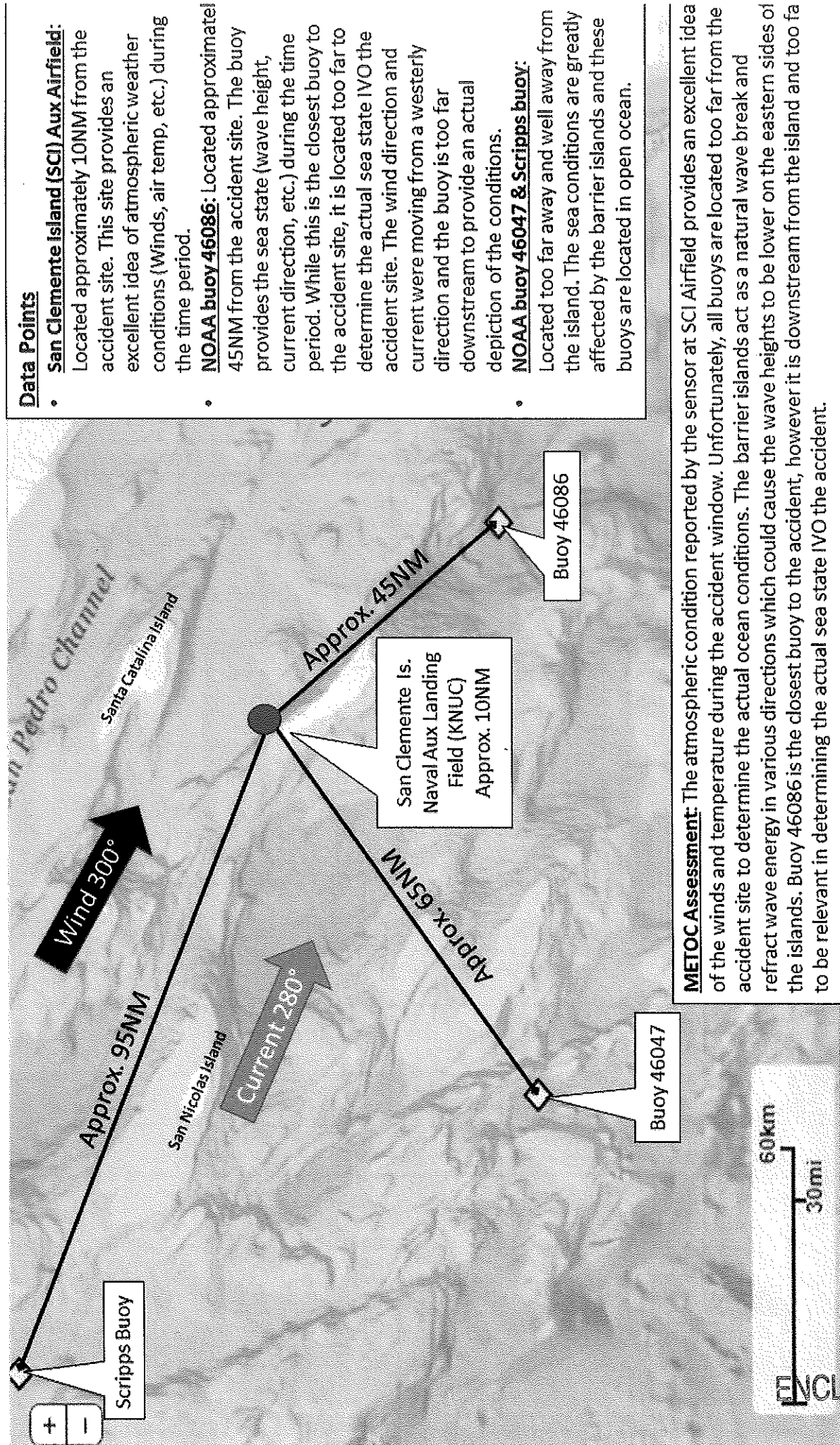


TIME 1856 PST

MISHAP ENVIRONMENT: SAN CLEMENTE ISLAND NAVAL AUX LANDING FIELD (KNUC)
AND BUOY 46086 TIME 1856

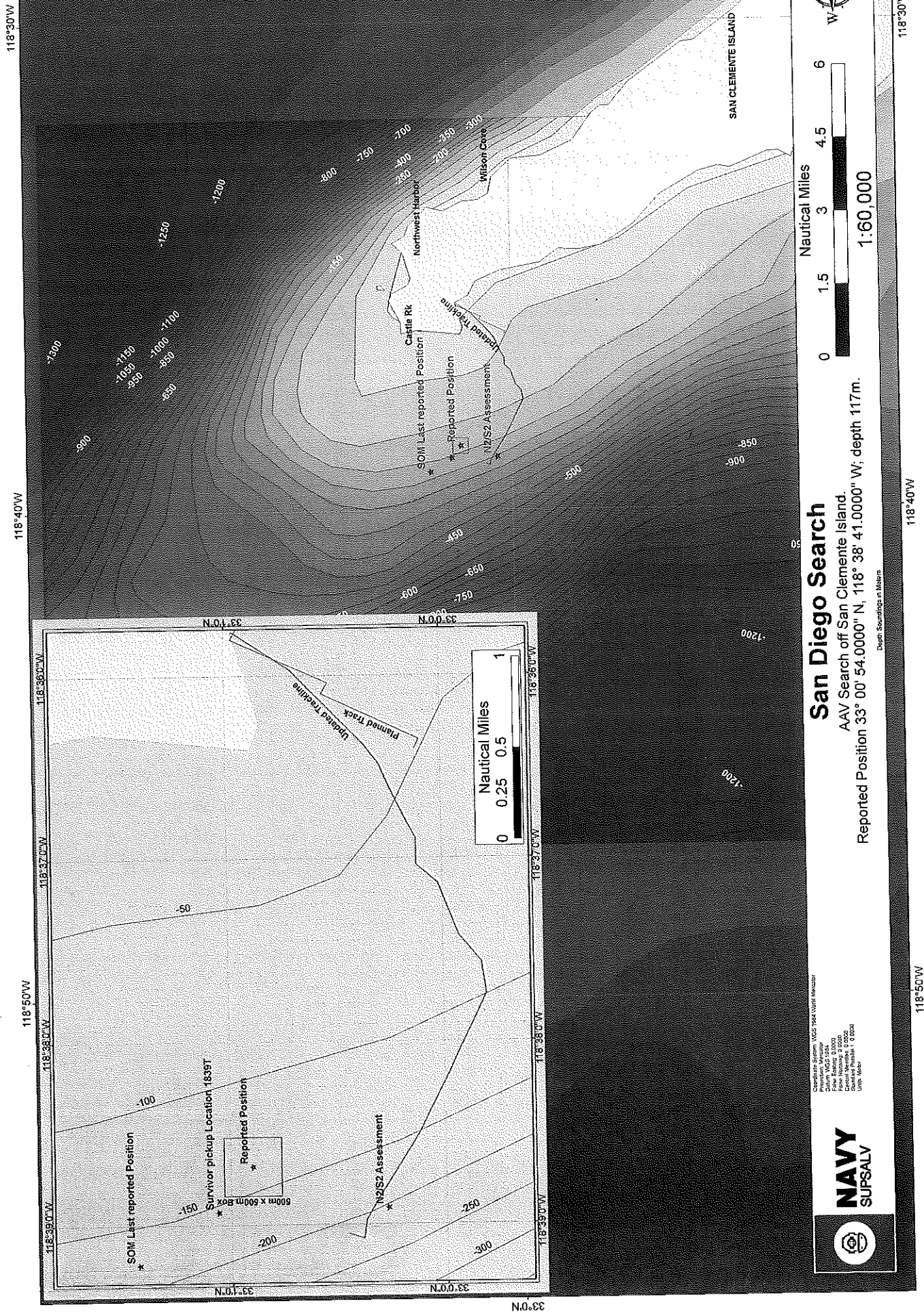
- A. SEA STATE AND DIRECTION: SS3 (WAVE HEIGHT 3.5FT), DIRECTION: 280°
(FROM THE WEST)
- B. WIND DIRECTION AND SPEED: WEST-NORTHWESTERLY (300 DEGREES) AT 12
KNOTS (14 MPH)
- C. AIR TEMPERATURE IN DEGREES FAHRENHEIT: 63°F
- D. WATER TEMPERATURE: N/A
- E. VISIBILITY: 10SM
- F. VISIBILITY REDUCED BY: N/A
- G. LIGHTNING PRESENT (PRODUCED BY STORM)? (Y/N): N
- H. CUMULATIVE PRECIPITATION: N/A
- I. LIGHTING CONDITIONS/AVAILABILITY AT SITE OF MISHAP: Adequate



Data Points

- **San Clemente Island (SCI) Aux Airfield:**
Located approximately 10NM from the accident site. This site provides an excellent idea of atmospheric weather conditions (Winds, air temp, etc.) during the time period.
- **NOAA buoy 46086:** Located approximately 45NM from the accident site. The buoy provides the sea state (wave height, current direction, etc.) during the time period. While this is the closest buoy to the accident site, it is located too far to determine the actual sea state IVO the accident site. The wind direction and current were moving from a westerly direction and the buoy is too far downstream to provide an actual depiction of the conditions.
- **NOAA buoy 46047 & Scripps buoy:**
Located too far away and well away from the island. The sea conditions are greatly affected by the barrier islands and these buoys are located in open ocean.

METOC Assessment: The atmospheric condition reported by the sensor at SCI Airfield provides an excellent idea of the winds and temperature during the accident window. Unfortunately, all buoys are located too far from the accident site to determine the actual ocean conditions. The barrier islands act as a natural wave break and refract wave energy in various directions which could cause the wave heights to be lower on the eastern sides of the islands. Buoy 46086 is the closest buoy to the accident, however it is downstream from the island and too far to be relevant in determining the actual sea state IVO the accident.



ENCLOSURE (3)

SUBSALY VIDEO ON AAY 523519 LOCATION DISCOVERY AND
VERIFICATION VIDEO, DTD 3 AUG 2020: EXTERNAL HARD DRIVE

ENCLOSURE (33)

THE UNIVERSITY OF CHICAGO
DIVISION OF THE PHYSICAL SCIENCES
DEPARTMENT OF CHEMISTRY
5700 S. DICKINSON AVE.
CHICAGO, ILL. 60637

SUBSALV VIDEO OF AAY 523519 RECOVERY, DTD 7 AUG 2020,
EXTERNAL HARD DRIVE

ENCLOSURE (34)

THE UNIVERSITY OF CHICAGO
LIBRARY

(b)(3), (b)(6), (b)(7)(c)

From: (b)(3), (b)(6), (b)(7)(c)
Sent: Friday, September 11, 2020 3:14 PM
To:
Cc: (b)(3), (b)(6), (b)(7)(c)
Subject: RE: AAV Location

Thank you! We appreciate it.

S/F

(b)(3), (b)(6), (b)(7)(c)

-----Original Message-----

From: (b)(3), (b)(6), (b)(7)(c)
Sent: Friday, September 11, 2020 10:52 AM
To: (b)(3), (b)(6), (b)(7)(c)
Subject: AAV Location

Sir,

Posit for AAV is below:

33 deg 01.52244' N
118 deg 38.93274' W

Please let me know if you need anything else.

V/R

(b)(3), (b)(6), (b)(7)(c)

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HSC-23.2 AAV Incident - SAR/MEDEVAC SUPPORT

HSC-23.2 DET ISO AAV Incident (30JUL-01AUG2020)

- 15th MEU AAV sunk during PMINT training exercise IVO San Clemente Island, 16 personnel embarked (7 recovered, 9 deceased) at ~1824L
- HSC-23.2 executed 40+ flight hours ISO MEDEVAC and search efforts over 2.5 days, embarked on USS Makin Island (LHD 8)
- Three critical patients MEDEVAC to Scripps Memorial Hospital (1 deceased, 2 remain in critical condition)
- First airborne SAR assets ONSTA within 20 minutes of notification.

30JUL:

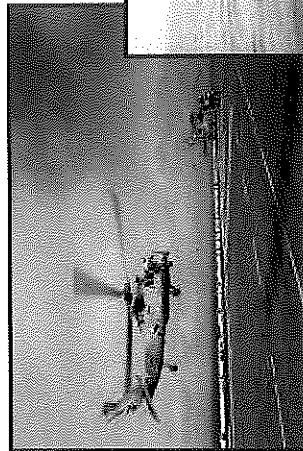
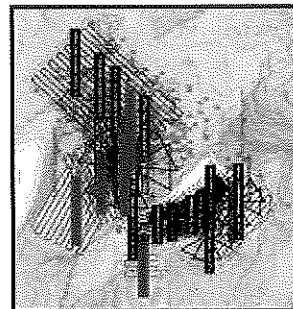
- Bullet 55 (BL55)
 - Re-rolled from PG mission to SAR, ONSTA 1845-2230L
 - MEDEVAC 1x Critical Patient from LPD 25 to Scripps Hospital
- BL47
 - Re-rolled from PMC mission to SAR, ONSTA 1915-2315L
 - MEDEVAC 2x Patients (1 deceased, 1 critical) from USS Somerset (LPD 25) to Scripps Hospital
- BL44
 - Unscheduled alert launch, ONSTA 2200-0400L
 - Identified empty vests, strobe lights, and gear. No personnel
 - 300-500' ceilings, 2-4 miles visibility

31JUL-01AUG

- 18 hours of search conducted, interspersed with SAR efforts provided by HSM-49.3, USCG helicopters, HSM-78 (HARP at SCI), and numerous surface vessels.
- Continuous joint airborne SAR
- Dedicated search patterns executed ICW recommendations from USCG LNO
- No personnel located

HSC-23.2 DEUCES WILD

UNCLASSIFIED



WILDCARDS NEVER FOLD

ENCLOSURE (36)



DEPARTMENT OF THE NAVY
USS MAKIN ISLAND LHD 8



HSC-23.2 DETACHMENT FLIGHT SCHEDULE

Thursday, 30 July 2020

JULIAN DATE: 20212
TYPE: MH-60S
SDO:
ADD:

(b)(3), (b)(6), (b)(7)(c)

SR/SS: 0602 / 1948
MR/MS: 1646 / 0211
ILLUM: 79%
EENT: 2048

FLIGHT EVENTS

FLIGHT EVENTS									
SIDE #	MSN #	TIMES BRF/LCH/LND	HAC UTILITY CREW	COPILOT SECOND CREW	MISSION	TMR CODE	HOURS SCHED	HOURS FLOWN	NOTES & CONFIG
55	0501	0900 / 1300 / 1930 1305 / 2235	(b)(3), (b)(6), (b)(7)(c)		AM A60/PG ____ SAR ____ MEDEVAC ____	1A1 2P1	6.5	9.5	1 C3 FB / RR/ DR AUX(3700)
47	0511	0530 / 0900 / 1000 0900 / 1030			AM A60 ____ VERTREP ____	2P1 2R1	1.0	1.5	2 C3 AUX(2400)
47	0511	0945/ 1245 / 1800 1245 / 2320			PMC ____ SAR ____ MEDEVAC ____	2R1	5.3	10.6	4, 5, 6, 7, 8 C3 P(8) AUX(3700)
44	0501	2000 / TBD / TBD 2200 / 0100			PM A60 ____ SAR ____	2P1	TBD	3.0	3 C3 AUX(3700)
TOTAL DAILY / FLOWN / DET HOURS							12.8	24.6	54.7

1 Indicates <10 hours in 30 days. * Indicates aircrew on schedule multiple times. **BOLD** indicates schedule priority.

¹ Indicates <10 hours in 30 days. * Indicates aircrew on schedule multiple times. **BOLD** indicates schedule priority.

ADDITIONAL EVENTS

TIME	EVENT	PERSONNEL	LOCATION
ALL DAY	R2P2	(b)(3), (b)(6), (b)(7)(c)	AS REQUIRED
0500 - 0700	BREAKFAST		GALLEY
0800 - 0900	CUB		FLAG B&P
0915	WORKING PARTY		PR SHOP
0930 - 1000	PMC BOARD		FLAG B&P
1000 - 1100	APB		FLAG B&P
1100 - 1330	LUNCH		GALLEY
1500 - 1600	OPS INTEL		WARDROOM
1600 - 1830	DINNER		GALLEY
2030 - 2200	2P STUDY		WARDROOM LOUNGE
2300 - 0000	MIDRATS		GALLEY

MISSION NOTES

All flights originate from USS MAKIN ISLAND (LHD 8), brief in DEBARK CONTROL and HOT PUMP per the AIRPLAN unless otherwise noted.

1. Crew to hold alert from 1300 - 2030.

2. Crew to hold alert from 0600 - 1300.

3. Crew to set PM ALERT 60 from 2030 - 0830.

(b)(3), (b)(6), (b)(7)(c) to ride as PAX from MKI to KNFG

(b)(3), (b)(6), (b)(7)(c) to ride as PAX from SDG to KNZY. VIP kit and helmets/ICS cranials required. Crew to arrive at NASNI PAX Terminal NLT 1400.

(b)(3), (b)(6), (b)(7)(c) to ride as PAX from KNFG to SOM

(b)(3), (b)(6), (b)(7)(c) to ride as PAX from SDG to SOM

(b)(3), (b)(6), (b)(7)(c) to ride as PAX from SDG to MKI

EP/SYSTEM/SOP NOTES

EP of the Day: Engine Malfunction in Flight

MH-60S NATOPS: Engine Oil Temperature Limits

System of the Week: AFCS

Wing SOP: What emergencies can you not simulate at night?

SUBMITTED BY:

REVIEWED BY:

APPROVED BY:

//S//

//S//

//S//

(b)(3), (b)(6), (b)(7)(c)

ENCLOSURE (36)



DEPARTMENT OF THE NAVY
USS MAKIN ISLAND LHD 8



HSC-23.2 DETACHMENT FLIGHT SCHEDULE

Friday, 31 July 2020

JULIAN DATE: 20213

TYPE: MH-60S

DDO:

ADD: (b)(3), (b)(6), (b)(7)(c)

SR/SS: 0603 / 1947

MR/MS: 1747 / 0301

ILLUM: 88%

EENT: 2048

SIDE #	MSN #	TIMES BRF/LCH/LND	HAC UTILITY CREW	COPILOT SECOND CREW	MISSION	TMR CODE	HOURS SCHED	HOURS FLOWN	NOTES & CONFIG
47		2300 / 0030 / 0400 0030 / 0400			SAR__	2P5 1A1 1A9	3.5	3.5	C3 AUX(3700)
44		0530 / 0600 / 0930 0600 / 0930			SAR__	2P5 1A1	3.5	3.5	C3 AUX(3700)
55		0630 / 0900 / 1230 0915 / 1215	(b)(3), (b)(6), (b)(7)(c)		SAR__	2P5 1A1	3.5	3.5	C3 AUX(3700)
47		1030 / TBD / TBD ____ / ____			AM A60__	2P5 1A1	TBD	0.0	1 C3 AUX(3700)
47		1930 / TBD / TBD ____ / ____			PM A60__	2P5 1A1 1A9	TBD	0.0	2 C3 AUX(3700)
TOTAL DAILY / FLOWN / DET HOURS							10.5	10.0	79.1

Indicates <10 hours in 30 days. * Indicates aircrew on schedule multiple times. **BOLD** indicates schedule priority.

ADDITIONAL EVENTS

TIME	EVENT	PERSONNEL	LOCATION
0500 - 0700	BREAKFAST	ALL INTERESTED PERSONNEL	GALLEY
0800 - 0900	CUB		FLAG B&P
0930 - 1000	PMC BOARD		FLAG B&P
1000 - 1100	APB	(b)(3), (b)(6), (b)(7)(c)	FLAG B&P
1100 - 1330	LUNCH		GALLEY
1330 - 1400	DRI PROGRAM UPDATE		02-43.5-1-L
1500 - 1600	OPS / INTEL		WARDROOM
1600 - 1830	DINNER	ALL INTERESTED PERSONNEL	GALLEY
2300 - 0000	MIDRATS	ALL INTERESTED PERSONNEL	GALLEY

MISSION NOTES

All flights originate from USS MAKIN ISLAND (LHD 8), brief in DEBARK CONTROL and HOT PUMP per the AIRPLAN unless otherwise noted.

- Crew to set hold alert from 1230 - 2000
- Crew to set PM ALERT 60 from 2000 - 0830.

EP/SYSTEM/SOP NOTES

EP of the Day: Dual EGI Failure
MH-60S NATOPS: Transmission Pressure Limits
System of the Week: AFCS
Wing SOP: What emergencies can you not simulate at night?

SUBMITTED BY:

REVIEWED BY:

APPROVED BY:

(b)(3), (b)(6), (b)(7)(c)

ENCLOSURE (36)



UNCLASSIFIED//FOUO
HSC-23.2 Wildcards
Search and Rescue Event Reconstruction
30JUL2020



HSC-23.2 Wildcards SAR Report Log: 30JUL AAV Incident

-----NARRATIVE-----

An AAV with Marines embarked from the 15th MEU launched from the USS Somerset (SOM) was conducting a training exercise IVO of the northwest side San Clemente Island. On their return from the island to the SOM they rapidly began taking on water. SOM reached out to the USS Makin Island (MKI) to launch multiple embarked MH-60S and MH-60R aircraft. The first MH-60S launched at 1745 from MKI on 30JUL20 to proceed to the area of incident. Once on station they found two AAVs with personnel on top of vehicles (some with flotation) heading towards SOM. Several pieces of equipment were spotted floating in the water IVO of the AAVs. No personnel were recovered from the water by an aircraft. However small boats launched from SOM and San Clemente Island were able to retrieve eight individuals and recover them to SOM. Upon recovery and immediate medical treatment of these individuals it was determined that three personnel required MEDEVAC to trauma capable facilities. Two MH-60S aircraft transferred a total of three patients to Scripps Memorial Hospital in La Jolla, CA. Upon return from Scripps Hospital to MKI, another MH-60S and MH60R were launched to continue searching for more unaccounted personnel on board the sunken AAV. The search continued until 1200 on 31JUL20, thereby relieved by local Coast Guard assets.

-----TIMELINE-----

30JUL20

1745 – BL (Bullet) 55 called, redirected for SAR effort in support of damaged AAV taking on water IVO of SCI.
1820 – BL 47 returns, lands, informed of SAR effort.
1848 – BL 47 launches to assist with SAR effort.
1845 – BL 55 on station IVO of SCI and USS Somerset (SOM)
1915 – BL 47 on station
1949 – BL 47 on deck SOM
1958 – BL 55 notified of 11 missing souls by SOM TWR.
2010 – BL 55 on deck KNUC, refuel.
2025 – BL 47 off deck SOM, 2 Medevac patients
 a) 2 hrs of CPR
 b) IV placed, bleeding from nose, ear, and vomiting blood
2036 – BL 55 on deck SOM.
2100 – BL 47 on deck Scripps, drops off both patients.
2103 – BL 55 off deck SOM, 1 MEDEVAC patient. 8 souls.
2130 – BL 55 on deck Scripps. Patient drop off + 2 HMs.
2135 – BL 55 off deck Scripps for MKI (1 HM on board)
2205 – BL 47 departs KNZY for MKI (1 HM on board)
2200 – BL 44 launches to relieve BL 55 and 47. Performs repeated sectors searches in Box S2 (N33 00 50 W118 32 00, N33 00 50 W118 32 50, N32 56 00 W118 37 00, N32 56 00 W118 32 50), followed by shoreline searches on northwest coast of San Clemente Island.
2238 – BL 55 lands, shuts down.
2311 – BL 47 lands, crew hotseats.

31JUL20

0030 – BL 47 relauches, relieves BL 44. Performs expanding square and sector search at Datum: N33 00.12 W 118 35.94.
0100 – BL 44 lands, shuts down.
0358 – BL 47 lands, shuts down. LPOD.
0630 – 1200 – BL47/55 ONSTA search Box S2 (N33 00 50 W118 32 00, N33 00 50 W118 32 50, N32 56 00 W118 37 00, N32 56 00 W118 32 50) using expanding square search.
01AUG20
0530 – BL 44 launches, performs expanding square search at datum N32 49.577 W118 43.603.
1000 – BL 44 returns to MKI, crew hotseats.
1030 – BL 44 relauches
1230 – BL 44 returns to MKI, shuts down. HSC-23 search efforts conclude.

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ENCLOSURE (36)



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HSC-23.2 Wildcards
Search and Rescue Event Reconstruction
30JUL2020



-----MEDEVAC FLIGHTS-----

BULLET 55

Crew Composition and Names (b)(3), (b)(6), (b)(7)(c)
Notification of SAR: Re-rolled at approximately 1745 on deck MK1. 1745-2238L
Launch: 1745, 30JUL20
On station: Approximately 1845
Controlling agencies talked to: Beaver Control (OSC) on 266.9, Starburst. SOM TWR at DATUM. San Clemente to coordinate refueling (2010L). Foss Tower (2130L).
Other players: HSC-23 BT 47 on station. SOM on station. RHIBS on station. Coast Guard aircraft on station (1955L). HSC-21 on deck SCI refueling.
Area/Coordinates searched: DATUM - 33 1' 118 39' passed by SOM TWR at 1920
Search Pattern(s) used: Sector, Ladder search, creeping line.
Aircraft Equipment used: FLIR
Sightings: Once on station two AAVs with personnel on top of vehicles (some with flotation) heading towards USS Somerset. Several pieces of equipment IVO of AAVs. No personnel recovered from the water by BT 55.
Recoveries : None.
Patients on board/injuries: 1 MEDEVAC from SOM to Scripps Hospital.
Personnel on aircraft (not aircrew): 3 HMs providing care for patient en-route to Scripps.
Problems encountered (weather, sea state, terrain): Sea Sate 4/5, lower cloud layer as night progressed
Land: 2238
Other information: Enroute to DATUM was not able to coordinate going through HOT SHOBA ranges despite relaying to Beaver Control of current SAR. Had to reroute EAST around the SHOBA ranges. On station at DATUM at 1845L and was not notified of 11 missing souls until 1958L.

BULLET 47

Crew Composition and Names (b)(3), (b)(6), (b)(7)(c)
Notification of SAR: Re-rolled at approximately 1830 on deck MKI, 1830-2338
Launch: 1848, 30JUL20
On station: Approximately 1915
Controlling agencies talked to: Starburst (on deck MKI & enroute, called as RESCUE 47), Beaver on 266.9 (RESCUE 47). Checked in with SOM TWR (OSC when we arrived), Beaver on 266.9 enroute Scripps (RESCUE 47), SoCal Approach (RESCUE 47), Foss TWR (RESCUE 47).
Other players: HSC-23 BT 55 on station; SOM on station; RHIBS in the water from SOM; HSC-21 on deck SCI refueling
Area/Coordinates searched: DATUM passed from SOM: N33 1' W118 39'
Search Pattern(s) used: Parallel from the shoreline to the stern of SOM, S to N
Aircraft Equipment used: Wool blankets
Sightings: None
Recoveries: None
Patients on board/injuries: 2 MEDEVAC from SOM:
A) Black-tag; had 2 hours of CPR performed on SOM.
B) 23 yo Male; IV/Saline Drip Right AC. Bleeding from right ear, nose, began vomiting blood in last 20 minutes of flight en route to Scripps. Off deck SOM at 2025. On deck Scripps at 2100.
Personnel on aircraft (b)(3), (b)(6), (b)(7)(SOM). Dropped off on MKI at 2311.
Problems encountered (weather, sea state, terrain): WX on return to MKI. Instrument approach, broke out at 275'.
Land: 2311
Other information: HAZMAT clean-up after on deck MKI.



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HSC-23.2 Wildcards
Search and Rescue Event Reconstruction
30JUL2020



-----SEARCH FLIGHTS-----

BULLET 44

Crew Composition and Names (b)(3), (b)(6), (b)(7)(c)
Launch: 2200, 30JUL20
On station: 2215- 0045
Controlling agencies talked to: Raider Tower, ICEPACK, DELTA CONTR, KNUC Tower
Other players: RS 17, USS Somerset, unidentified USCG Cutter and USN DDG, USCG 0063 Jayhawk Helicopter, Seal Team Seven.
Area/Coordinates searched: Northeast coast of San Clemente, (N33 02 55, W118 40 55), Box S2 (N33 00 50 W118 32 00, N33 00 50 W118 32 50, N32 56 00 W118 37 00, N32 56 00 W118 32 50) Southwest coast of San Clemente.
30' creeping hover over entire northern half of western coastline of SCI 5X.
Search Pattern(s) used: Creeping Line, Expanding Square, Sector Pattern
Aircraft Equipment used: FLIR
Sightings: Strobe light (flashing) located with corpsman gear. Identified in a tide pool (low tide) just east of datum.
Medevacs: N/A
Land: 0100L

BULLET 47

Crew Composition and Name (b)(3), (b)(6), (b)(7)(c)
Launch: 0030, 31JUL20
On station: 0045
Controlling agencies talked to: Raider Tower, ICEPACK, DELTA CONTR, KNUC Tower
Other players: RS 17, USS Somerset,
Area/Coordinates searched: Datum: N33 00.12 W 118 35.94, Sector1: N33 00 00 W118 40 50, N33 00 00, W118 36 00, N32 56 00 W118 36 00, N32 56 00 W118 40 50; Sector2: N33 00 50 W118 37 00, N33 00 50 W118 32 50, N32 56 00 W118 32 50, N32 56 00 W118 37 00
Search Pattern(s) used: Creeping Line, Expanding Square, Sector Pattern
Aircraft Equipment used: FLIR
Sightings: What looked like a blanket/tarp and some debris in the kelp off the north western coastline of San Clemente at N32 59 30 W118 34 58
Medevacs: N/A
Personnel on aircraft (not aircrew): N/A
Problems encountered: Sea State 5-7 feet cloud ceiling approximately 200 feet and visibility shifting between 3 to 1 mile.
Land: 0400

BULLET 44

Crew Composition and Name: (b)(3), (b)(6), (b)(7)(c)
Launch: 0600, 31JUL20
On station: 0630 - 0730 / 0800 - 0915
Controlling agencies talked to: Raider Tower, ICEPACK, DELTA CONTR, KNUC Tower
Other players: RS 17, USS Somerset, unidentified USCG Cutter and USN DDG.
Area/Coordinates searched: Northeast coast of San Clemente, (N33 02 55, W118 40 55), Box S2 (N33 00 50 W118 32 00, N33 00 50 W118 32 50, N32 56 00 W118 37 00, N32 56 00 W118 32 50) Southwest coast of San Clemente
Search Pattern(s) used: Creeping Line, Expanding Square
Aircraft Equipment used: FLIR
Sightings: Several pieces of personal equipment sighted and reported to DELTA CONTR. No recoveries or patients recovered.
Medevacs: N/A
Personnel on aircraft (not aircrew): 5 PAX's transferred from MKI to SOM during tasking.
Problems encountered: Sea State 4/5, winds blowing from the southwest made searching along the north east shore difficult.
Land: 0930



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HSC-23.2 Wildcards
Search and Rescue Event Reconstruction
30JUL2020



BL 47 originally briefed at 0200 to arrive on scene by 0300, however ORM dictated a delay of 3 hrs. BL 47 departed MKI at 0600, arrived on scene by 0615. Immediately tasked by DELTA CONTR to perform a creeping line search along the northwest and northeast coast of San Clemente. Then passed DATUM of (N33 02 55, W118 40 55) and proceeded to perform expanding square pattern for 30 mins prior to returning to MKI for pax transfers. After returning from PAX transfers, BL 47 completed search of coastline and littoral of Southwest shore spotting several equipment items in the water. RTB 0910.

BULLET 55

Crew Composition and Name:

(b)(3), (b)(6), (b)(7)(c)

Launch: 0915, 31JUL20

On station: 0930-1200

Controlling agencies talked to: Raider Tower, ICEPACK, DELTA CONTR, KNUC Tower

Other players: Blue Hawk 701, USS Somerset, unidentified USCG Cutter and USN DDG.

Area/Coordinates searched: Northeast coast of San Clemente, (N33 02 55, W118 40 55), Box S2 (N33 00 50 W118 32 00, N33 00 50 W118 32 50, N32 56 00 W118 37 00, N32 56 00 W118 32 50) Southwest coast of San Clemente

Search Pattern(s) used: Creeping Line, Expanding Square

Aircraft Equipment used: FLIR

Sightings: Several pieces of personal equipment sighted and reported to DELTA CONTR. No recoveries or patients recovered.

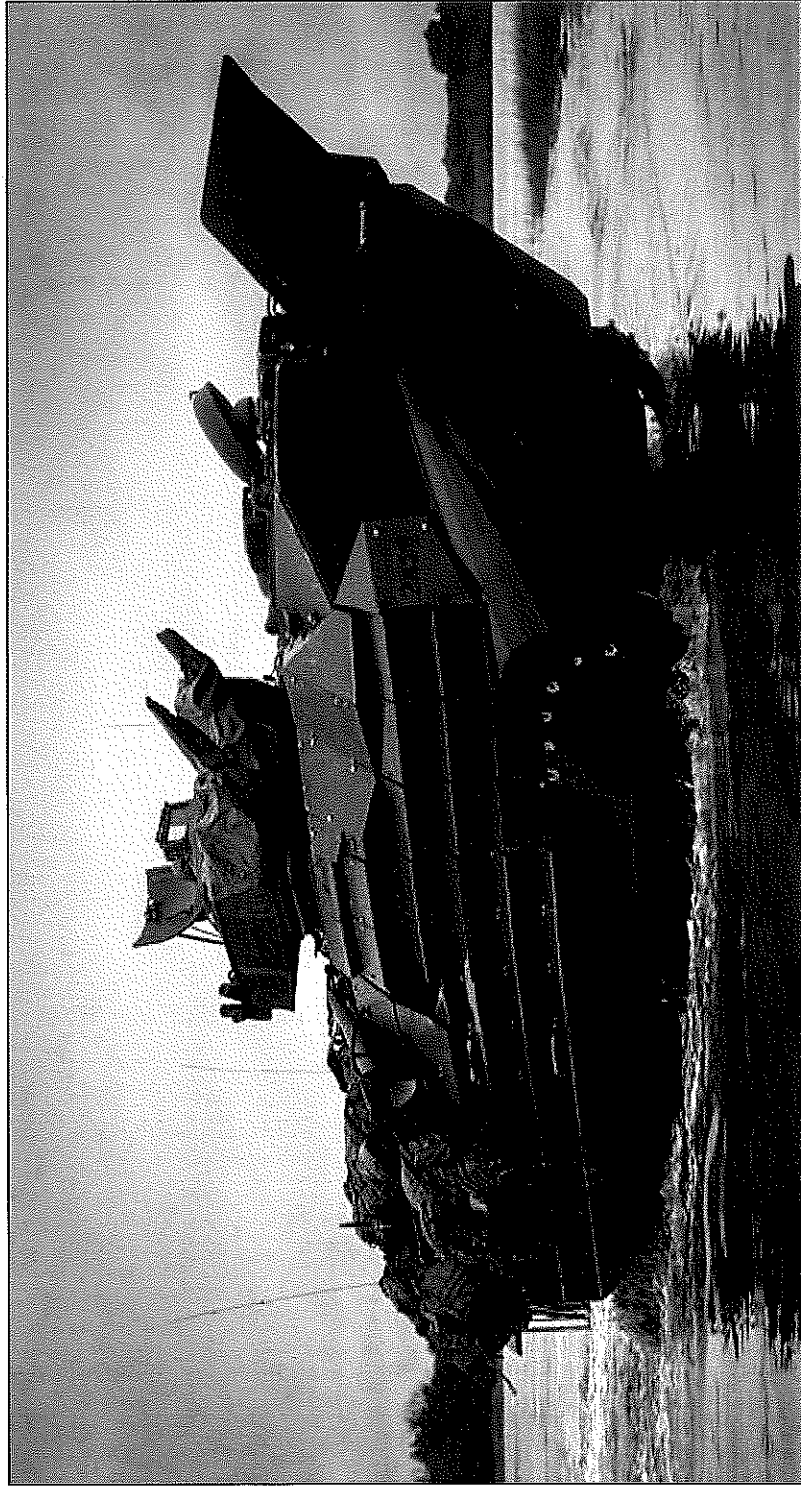
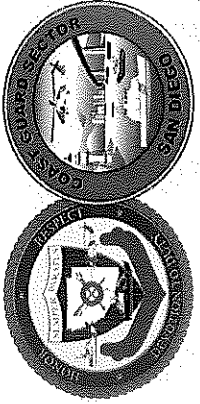
Medevacs: N/A

Personnel on aircraft (not aircrew): Combat Cameraman

Problems encountered: Sea State 4/5, winds blowing from the southwest made searching along the north east shore difficult.

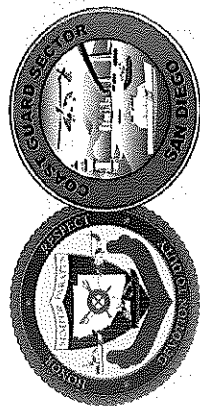
Land: 1200

U.S.M.C. Amphibious Assault Vehicle (AAV) Response



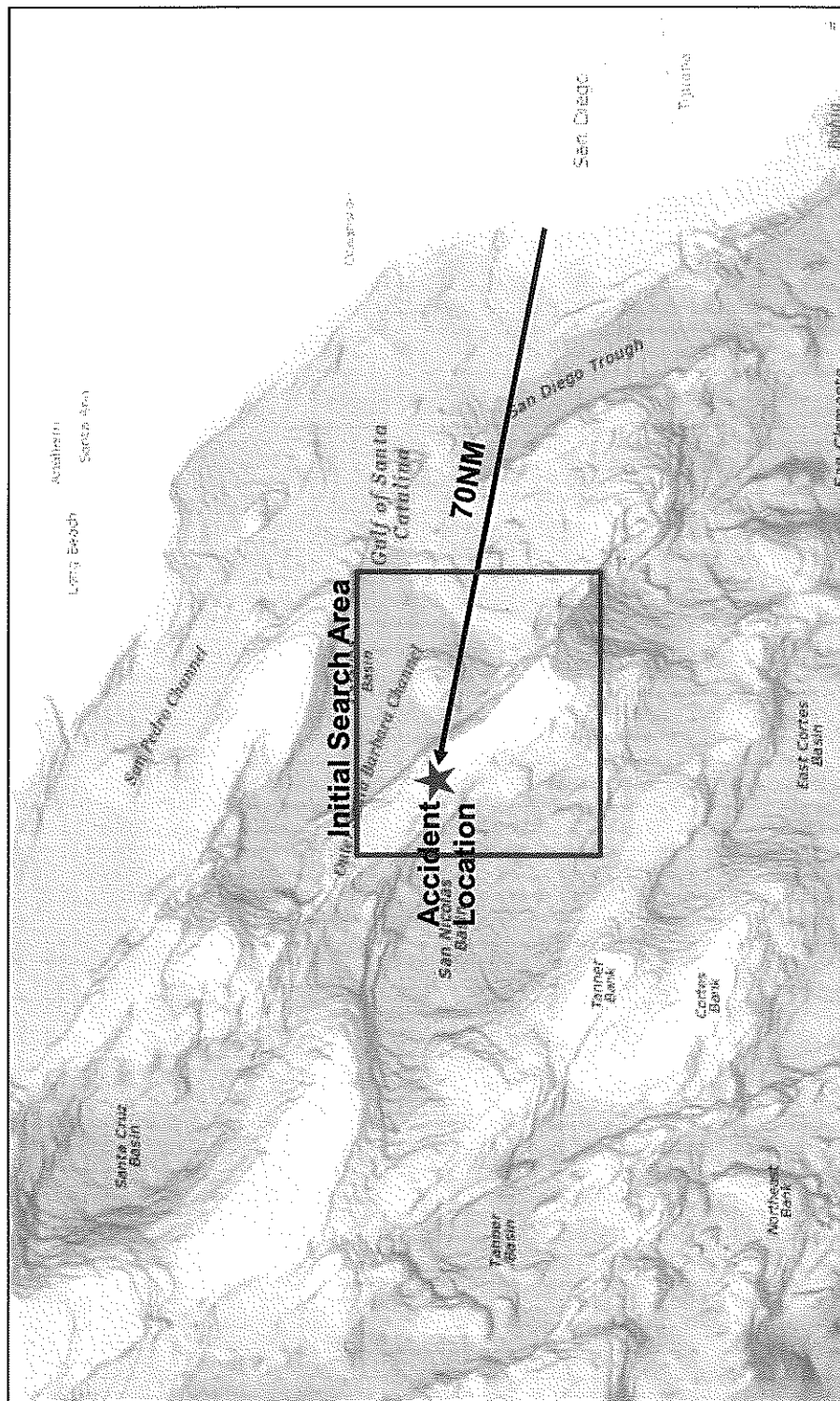
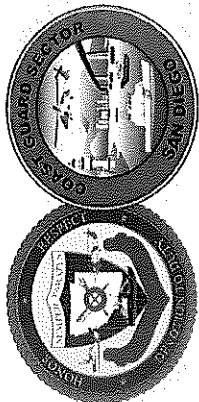
ENCLOSURE (37)

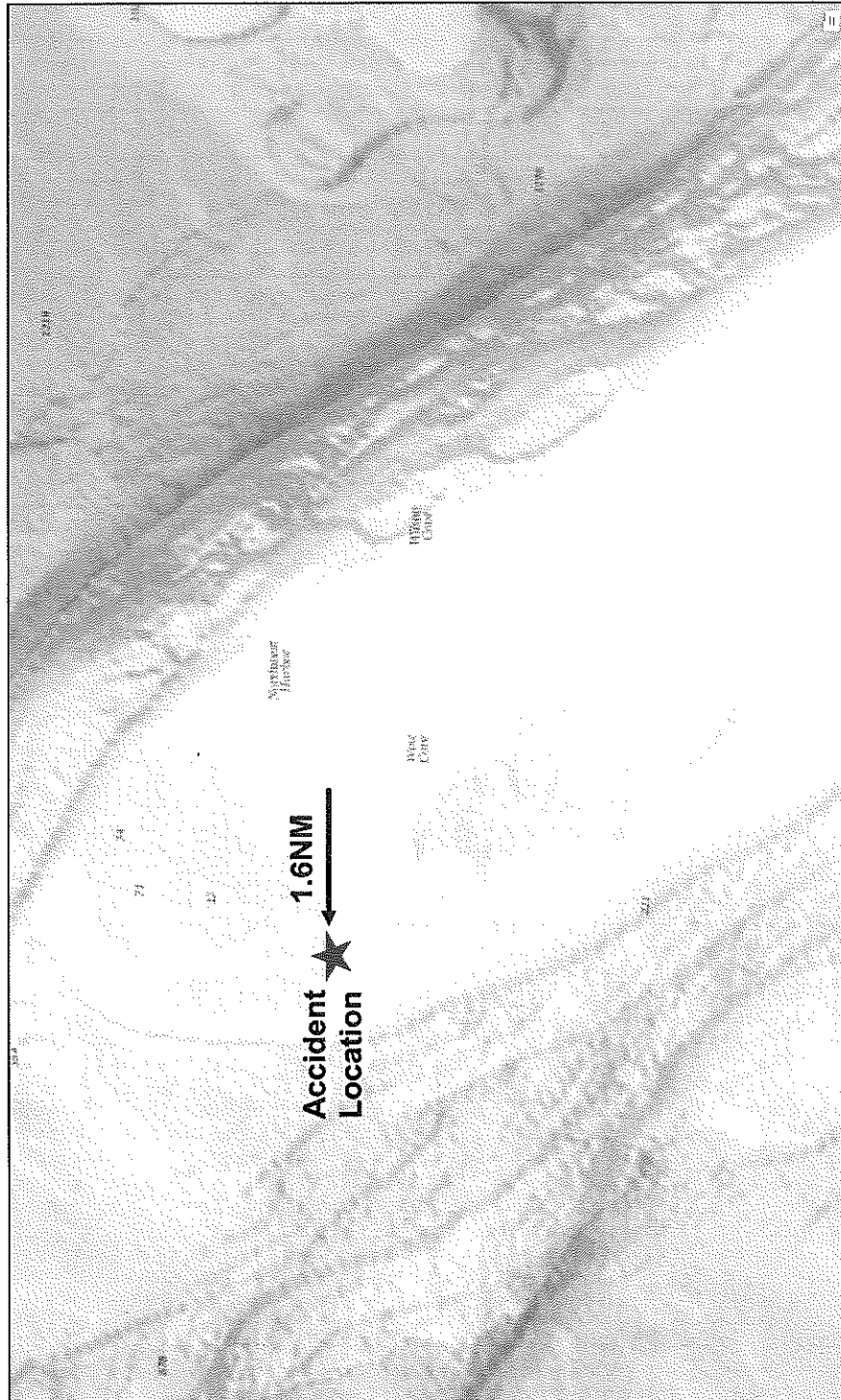
Summary of Search and Rescue Operations



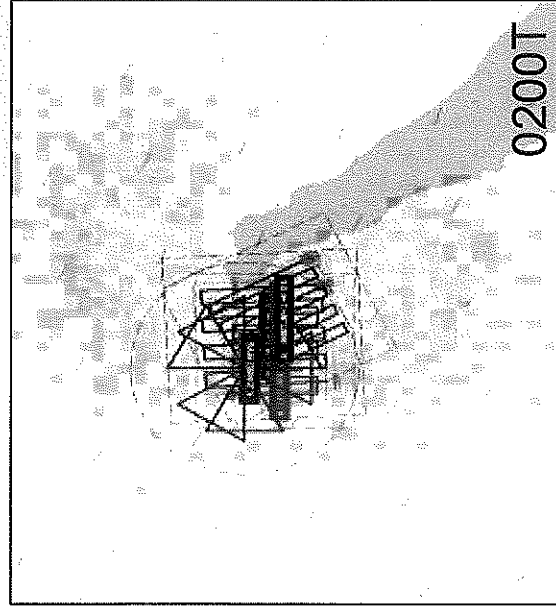
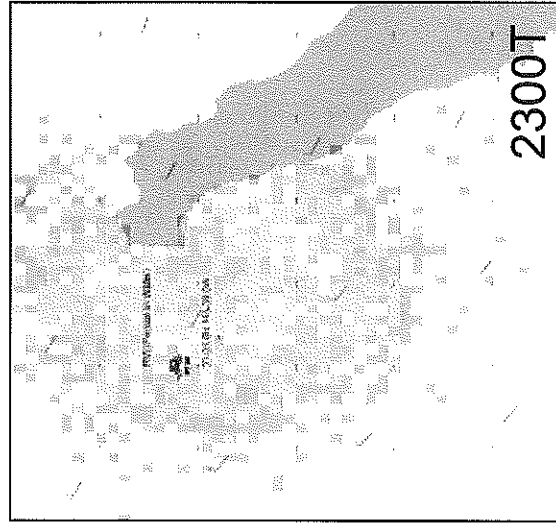
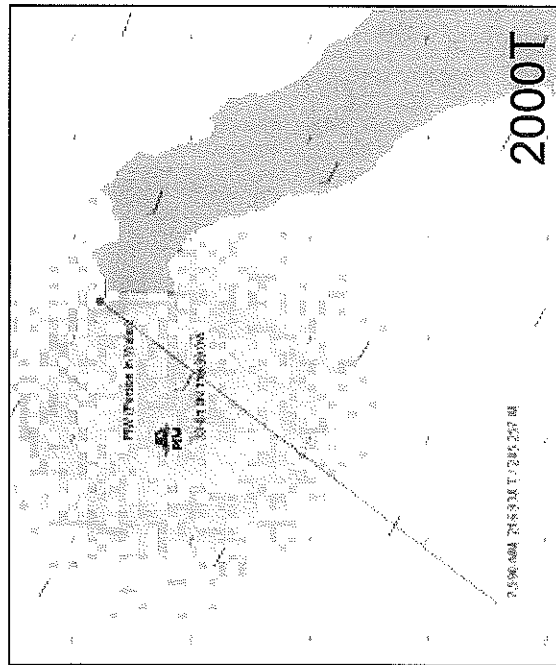
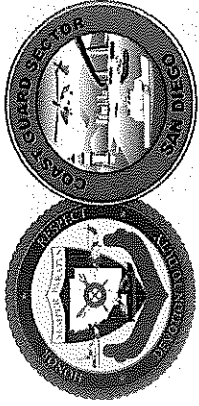
At approximately 1824 pm on Thursday, 30 July 2020 a USMC Amphibious Assault Vehicle operating 1.6 nautical miles West of San Clemente Island with 16 souls aboard took on water and sank in approximately 300 feet of water. Hearing the distress call, the USS MAKIN ISLAND, USS SOMERSET, USCGC FORREST REDNOUR, USCG Sector San Diego MH-60 helicopter, USN SH-60 helicopters, and USN vessels immediately responded the accident location. Eight souls were recovered with three being transported to Scripps Memorial Hospital in La Jolla for medical treatment. Search efforts commenced for the remaining eight souls. Commander Amphibious Squadron 3 aboard the USS MAKIN ISLAND assumed the Search and Rescue Mission Coordinator (SMC). The Coast Guard has sent an SMCLO to assist with technical search and rescue support provided by USCG Rescue Coordination Center Alameda.

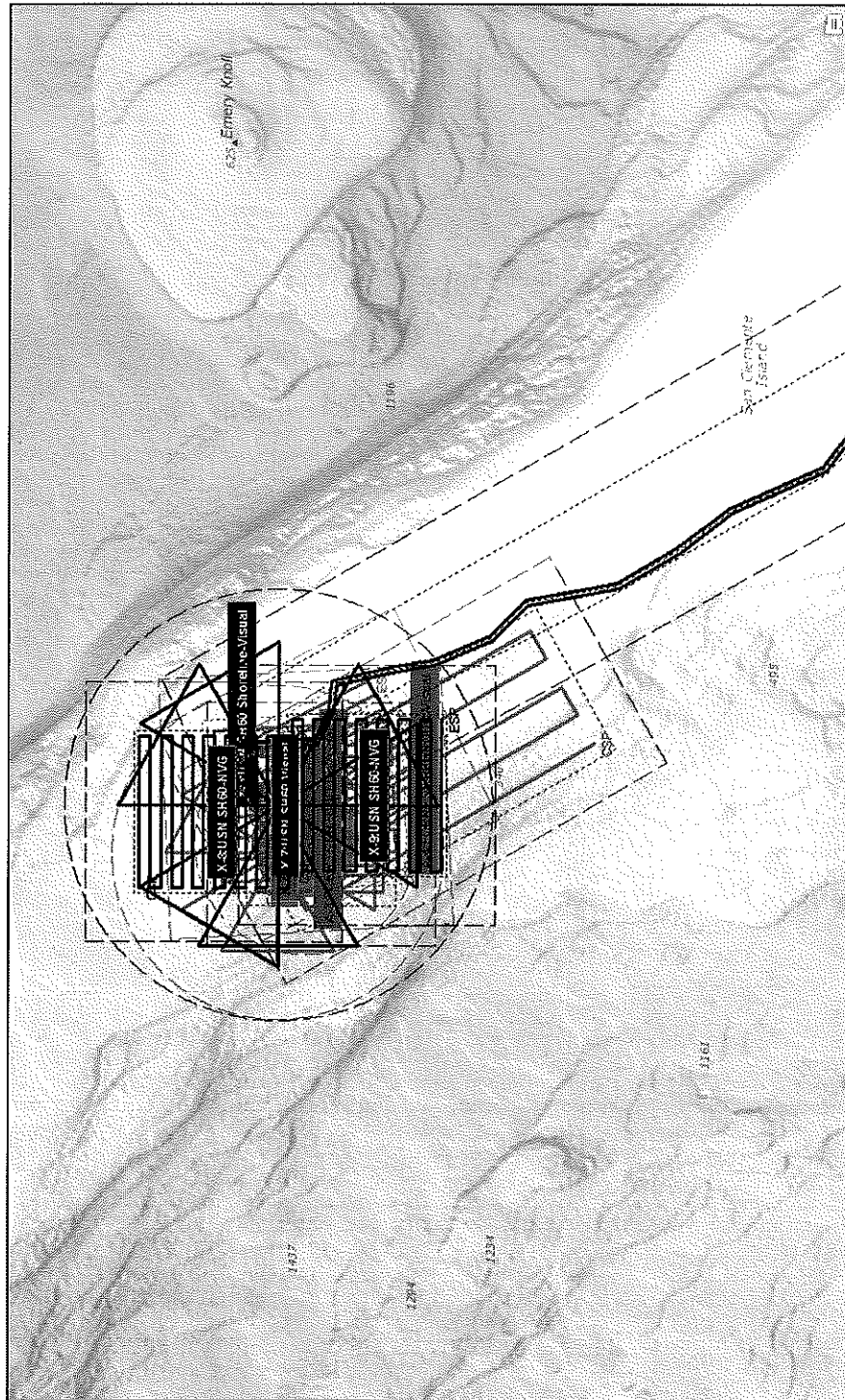
Area of Operations with initial position





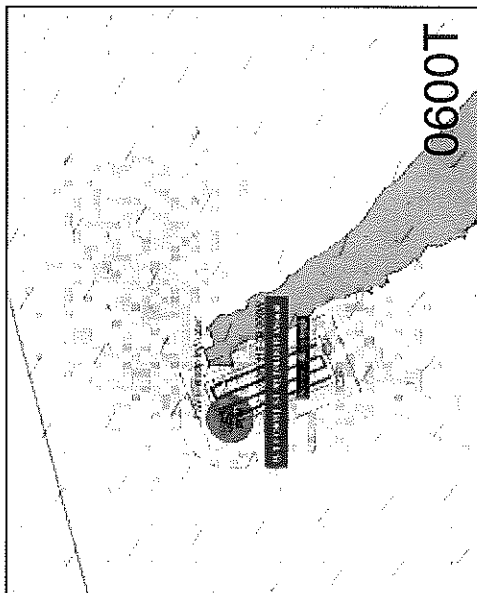
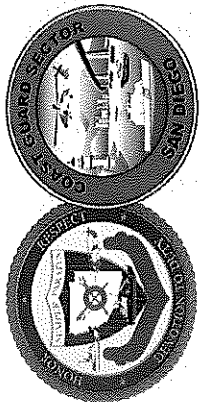
30 July Particle Projections



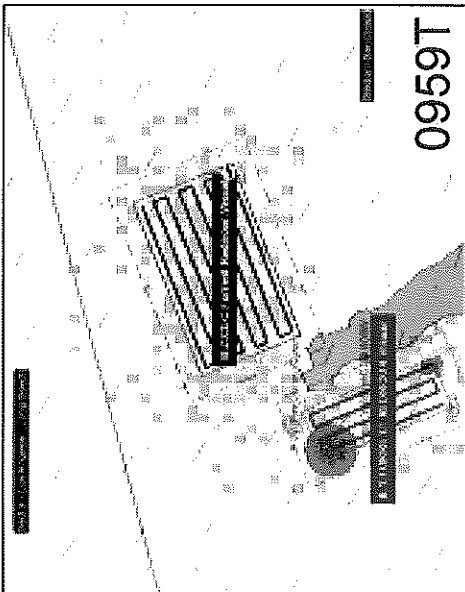


ENCLOSURE (37)

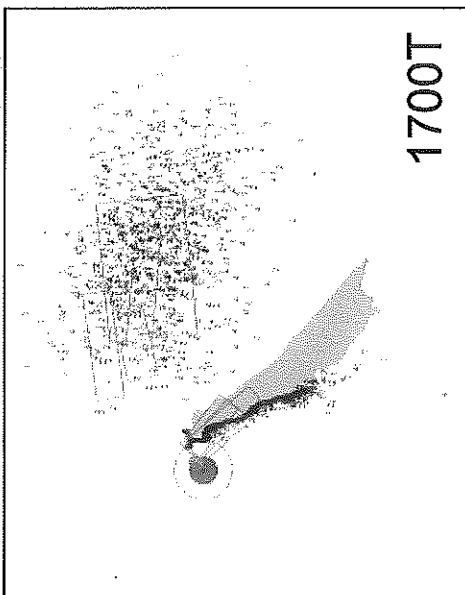
31 July Particle Projections



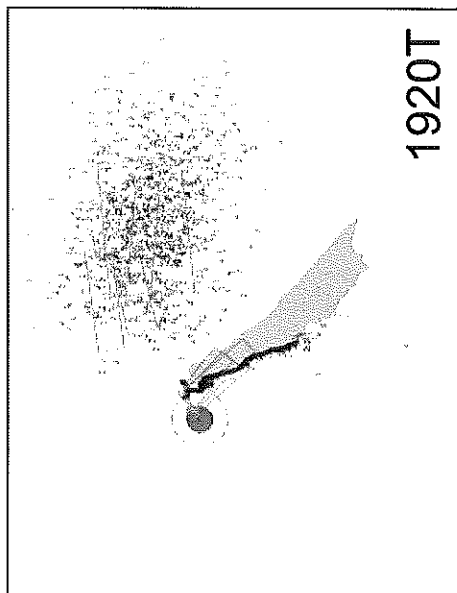
0600T



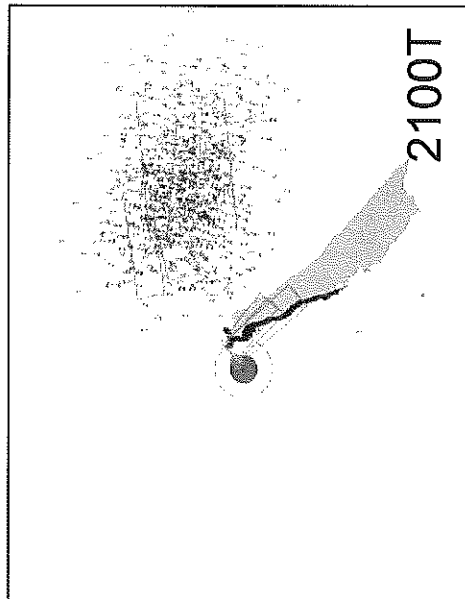
0959T



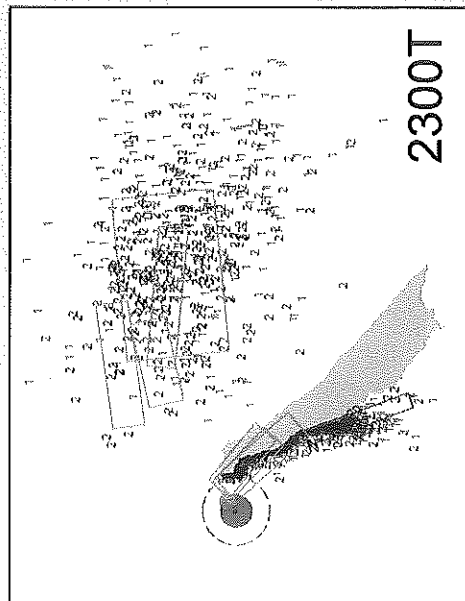
1700T



1920T

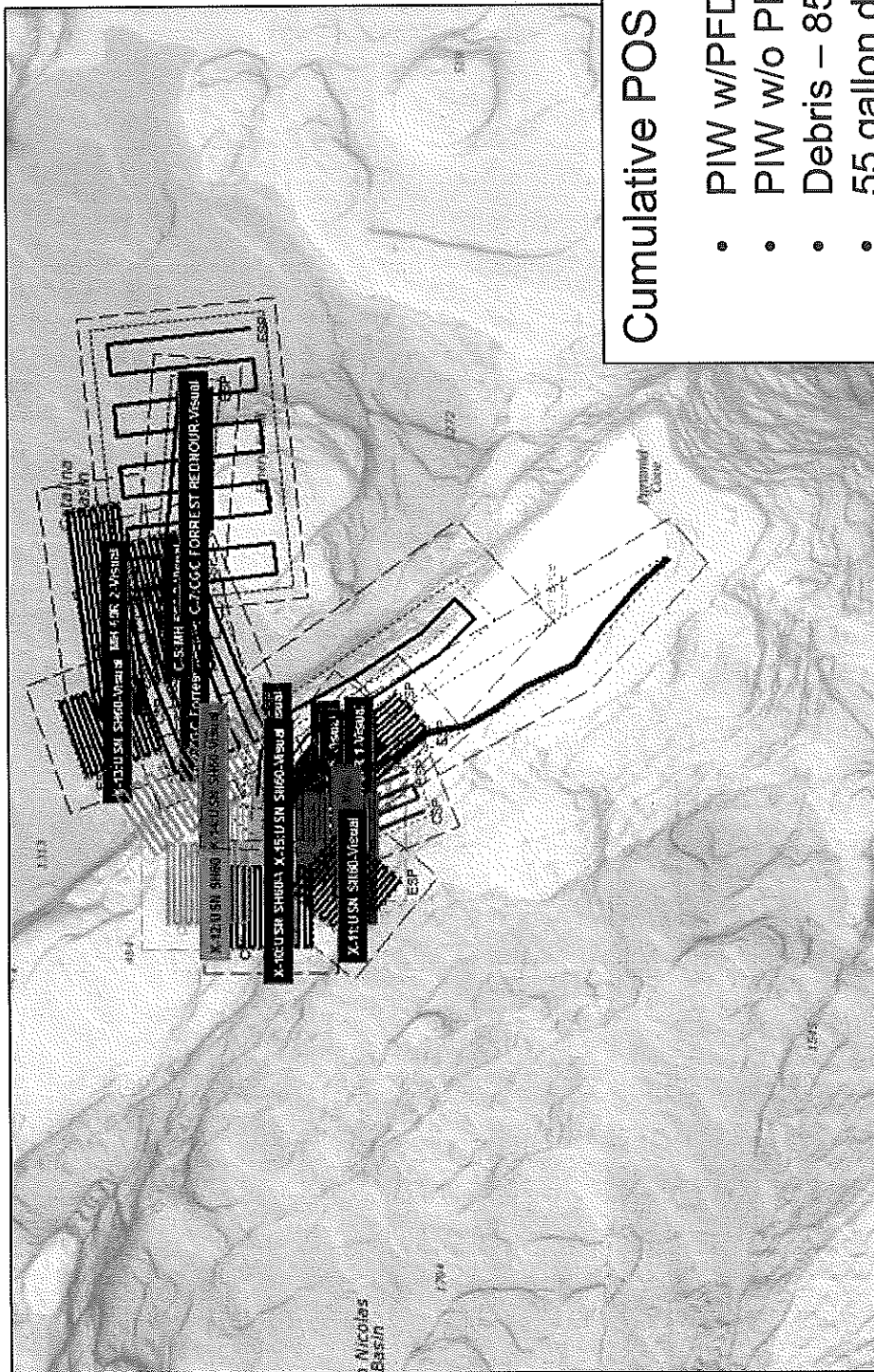
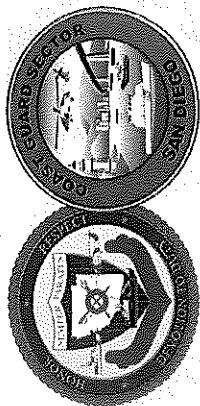


2100T



2300T

31 July Search Efforts



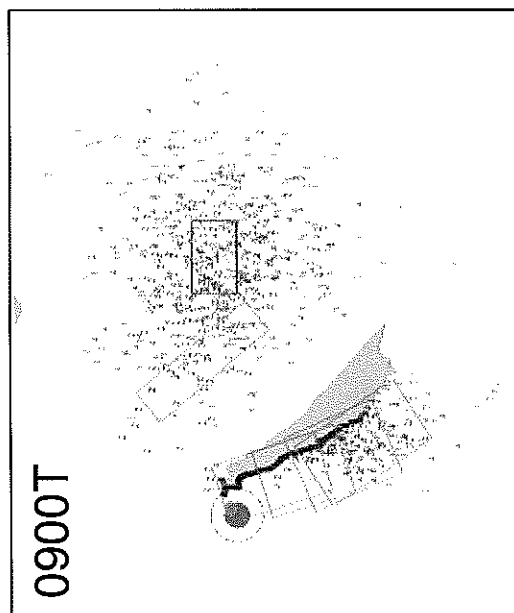
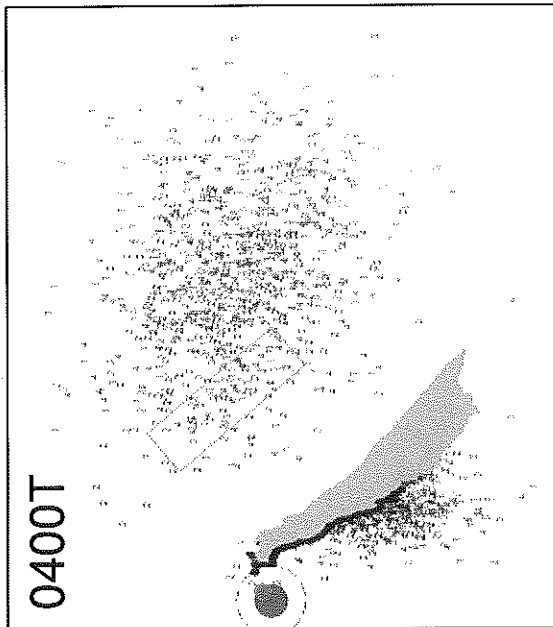
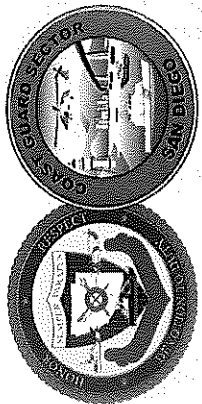
POS is for CG built patterns only

Cumulative POS at 1530T 31 July

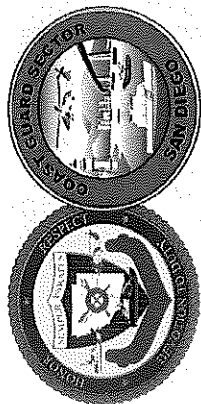
- PIW w/PFD – 86% POS*
- PIW w/o PFD – 54% POS*
- Debris – 85% POS
- 55 gallon drum – 84% POS

* Optimized

01 August Particle Projections



Summary of Search Effort and Rescue Units



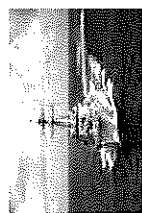
USS MAKIN ISLAND
Search Mission Coordinator (SMC)



USS SOMERSET
On Scene Coordinator (OSC)



USS SAN DIEGO



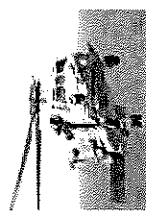
USS JOHN FINN



USCGC FORREST REDNOUR



USCGC Sector San Diego MH-60



USN Helicopter Squadrons:
HSC-23, HSM-78, HSM-49

- 54 USN & USCG Helicopter Searches
- 135.1 Flight Hours
- Continuous Large Naval Vessel & USCG Cutter Presence
 - 5 large assets
 - 7 RHIBS*
 - 2 Seal Teams* (Completed Shore/Surf Searches on the west side of the Island)
 - CGLO SME deployed to assist response planning
 - CG RCC 24 hr. support w/ particle drifts & pattern planning
- 1390 Square Nautical Miles Searched
- 1820 Trackline Miles Searched
- 58.5 Continuous Hours Searched

*Not factored into the hours or searches



- PIW w/PFD – 87% POS*
- PIW w/o PFD – 52% POS*
- Debris – 97% POS
- 55 gallon drum – 95% POS

* Optimized

POS is for CG built patterns only

Assault Amphibian Unit Leader Course (AAUL) CID M1018C3:

Graduated 20180921
Graduated 20111216
Graduated 20180921
Has not Attended AAUL
Not enlisted (Graduated AAO 20190606)

(b)(3), (b)(6), (b)(7)(c)

Assault Amphibian Vehicle Commanders Course (AAVC) CID M1019Q3:

Has not Attended AAVC
Graduated 20200630
Has not Attended AAVC
Has not Attended AAVC
Graduated 20161116
Graduated 20200630
Has not Attended AAVC
Has not Attended AAVC

(b)(3), (b)(6), (b)(7)(c)

Assault Amphibious Vehicle Repairer Basic Course (AAVRB) CID M1018Y3:

Graduated 20180719
Graduated 20180719
Graduated 20090807
Graduated 20170603

(b)(3), (b)(6), (b)(7)(c)

2018

2000

length: 64

7/16/201

ALL ACCESS POSTER

Force Register Selected Students

[View All Students](#)

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(b)(3), (b)(6), (b)(7)(c)

Course:

Length:	64
Frequency:	2

10/4/20

1-800-445-2234

Florida Department of Education

[View All Students](#)

Save Completion Codes

Figure 1

[illegible]

(3)

S **Journal of** **the** **Academy of** **Management** **1999** **43** **1** **1-10**


7)

8

(continued)

ENCLOSURE (38)

2020

Course: ASSAULT AMPHIBIAN VEHICLE COMMANDER M1018Q3 ★ 

School: ASSAULT AMPHIBIOUS SCHOOL BATTALION Camp Pendleton CA

Organizational Authority: Training Command (TRNGCMD)

OSN OSLOC Phase Length 33

Min. Seats 9 Max. Seats 24 Optimum Size 24 Frequency 5

Class ID 20200004 Reporting 5/26/2020 Convening 5/27/2020 Graduating 6/30/2020

Class Status: Validated

Undo Validation

ALLOCATIONS | REGISTRATION

CLASS ROSTER

Cancel Selected Students Force Cancel Selected Students Force Register Selected Students

Registered Wait List Cancel Pending View All Students

Save Completion Codes

Default Completion Code: (Select)

Date



Apply Default

Select	DoD ID	Last Name	First Name	NI	Grade	PMOS	Sponsor	Booking Code	Sub Booking Code	Reg. Date	Funding Status	Funding Type	MOS	Stud. Type	Stud. Qual	Completion Code	Customize Columns	Comp. Date	Word	CSV
								COMPLETE		20200327 17:24				OE		Graduate		2020-06-30		
								COMPLETE		20200317 14:55				OE		Graduate		2020-06-30		
								COMPLETE		20200413 18:25				OE		Graduate		2020-06-30		
								COMPLETE		20200506 20:04				OE		Graduate		2020-06-30		
								COMPLETE		20200421 19:19				OE		Graduate		2020-06-30		
								COMPLETE		20200421 19:19				OE		Graduate		2020-06-30		
								COMPLETE		20200430 14:49				OE		Graduate		2020-06-30		
								COMPLETE		20200413 18:25				OE		Graduate		2020-06-30		
								COMPLETE		20200520 22:28				OE		Graduate		2020-06-30		
								COMPLETE		20200527 17:25				OE		Graduate		2020-06-30		
								COMPLETE		20200421 19:19				OE		Graduate		2020-06-15		
								COMPLETE		20200413 18:25				OE		Graduate		2020-06-30		
								COMPLETE		20200317 14:55				OE		Graduate		2020-06-30		
								COMPLETE		20200413 18:25				OE		Graduate		2020-06-30		
								COMPLETE		20200413 18:25				OE		Graduate		2020-06-30		
								COMPLETE		20200317 14:55				OE		Graduate		2020-06-30		
								COMPLETE		20200413 18:25				OE		Graduate		2020-06-30		
								COMPLETE		20200327 17:24				OE		Graduate		2020-06-30		
								COMPLETE		20200413 18:25				OE		Graduate		2020-06-30		
								COMPLETE		20200506 20:04				OE		Graduate		2020-06-30		
								COMPLETE		20200317 14:55				OE		Graduate		2020-06-30		
								COMPLETE		20200527 17:24				OE		Graduate		2020-06-30		
								COMPLETE		20200421 19:19				OE		Graduate		2020-06-30		
								COMPLETE		20200413 18:25				OE		Graduate		2020-06-30		

(b)(3), (b)(6), (b)(7)(c)

ENCLOSURE (38)

2017

Course: ASSAULT AMPHIBIAN VEHICLE COMMANDER M1018Q3  
 School: ASSAULT AMPHIBIOUS SCHOOL BATTALION Camp Pendleton CA
 Cognizant Authority: Training Command (TRAGCWD)
 OSCN OSLOC Phase
 Min. Seats 9 Max. Seats 18 Optimum Size 18 Frequency 6
 Class: ID 2017001 Reporting 10/10/2016 Convening 10/11/2016 Graduating 11/15/2016

Class Status: Validated

Undo Validation














































































ALLOCATIONS | REGISTRATION

CLASS ROSTER

Cancel Selected Students Force Cancel Selected Students Force Register Selected Students

Registered Wait List Canceled Pending View All Students

Save Completion Codes

Default Completion Code: (Select)																		Apply Default									
Select	DoD ID	Last Name	First Name	MI	Grade	PNOS	Sponsor	Booking Code	Sub Booking Code	Reg. Date	Funding Status	Funding Type	NOS	Stud. Type	Stud. Qual	Completion Code	Comp. date	Word	CSV								
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
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							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
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							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
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							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
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							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
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							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
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							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
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							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
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							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
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							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
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							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
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							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-15										
							EOG-50	COMPLETE		20161004 14:28				OE		Graduate	2016-11-1										

Course	ASSAULT AMPHIBIAN OFFICER M1018J3					★	Unit
School	ASSAULT AMPHIBIOUS SCHOOL BATTALION						Camp Pendleton CA
Cognizant Authority	Training Command (TRNGCMD)						
OSCON				Phase	Length	77	
Class	6	Max. Seats	12	Optimum Size	12	Frequency	2
Ident	2019001	Reporting	3/31/2019	Converting	4/1/2019	Graduating	6/1/2019

Class Status: Validated

Undo Validation

Officers do not attend AÄUL, they attend AAO

ALLOCATIONS | REGISTRATION

CLASS ROSTER

Cancel Selected Students	Force Cancel Selected Students	Force Register Selected Students

Registered	Wait List	Canceled	Pending	View All Students
------------	-----------	----------	---------	-------------------

Save Completion Codes

Default Completion Code: (Select)

Date:

Apply Default:

Select	DoD ID	Last Name	First Name	NI	Grade	PMOS	Sponsor	Booking Code	Sub Booking Code	Reg. Date	Funding Status	Funding Type	NOS	Stud. Type	Stud. Qual	Completion Code	Comp. date	Customize Columns	XLSX	PDF	Word	CSV
<input type="checkbox"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>				<input type="text"/>		<input type="text"/>	<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>					
<input type="checkbox"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>			MPP-30	COMPLETE		20181127 15:09	Approved	POS	1802	OOE		Successful	2019-06-26					
<input type="checkbox"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>			MPP-20	COMPLETE		20181204 14:33	Approved	TECHNICS	1802	OOE		Successful	2019-06-26					
<input type="checkbox"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>			MPP-30	COMPLETE		20181127 15:09	Approved	POS	1802	OOE		Successful	2019-06-26					
<input type="checkbox"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>			MPP-20	COMPLETE		20180904 18:56	Approved		1802	OOE		Successful	2019-06-26					
<input type="checkbox"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>			MPP-30	COMPLETE		20181011 02:46	Approved	POS	1802	OOE		Successful	2019-06-26					
<input type="checkbox"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>			MPP-20	COMPLETE		20181204 14:33	Approved	POS	1802	OOE		Successful	2019-06-26					
<input type="checkbox"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>			MPP-20	COMPLETE		20190226 19:38			1802	OOE		Successful	2019-06-26					
<input type="checkbox"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>			EAP	COMPLETE		20190208 19:02			1802	20		Successful	2019-06-26					
<input type="checkbox"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>			EAP	COMPLETE		20181023 15:43			1802	30P		Successful	2019-06-26					
<input type="checkbox"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>			MPP-30	COMPLETE		20181130 19:45	Approved	POS	1802	OOE		Successful	2019-06-26					
<input type="checkbox"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>			MPP-20	COMPLETE		20190226 19:38			1802	OOE		Successful	2019-06-26					
<input type="checkbox"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>			EAP	COMPLETE		20190208 19:02			1802	20		Successful	2019-06-26					
<input type="checkbox"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>			MPP-30	COMPLETE		20181012 02:46	Approved	POS	1802	OOE		Successful	2019-06-26					
<input type="checkbox"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>			MPP-20	COMPLETE		20181204 14:33			1802	OOE		Successful	2019-06-26					

(b)(3), (b)(6), (b)(7)(c)

(b)(3), (b)(6), (b)(7)(c)

(b)(3)

Unit Amphibian Unit Leaders Course

USMC

Unit	Unit
KUL:21820 3D AAV BN 1ST MA DIV	PHOS:1833 Assault Amphibious Vehicle (AAV) Crewmember

Registrations

Registrations

Electronic Training Report (ETTR)

Customize Columns										XLSX	PDF	Word	CSV
CID	Course#	Class Code	Registered	Booking Status	Booking Sub Code	Funding Status	Funding Type	Report	Convene	Graduate	Comp Code	Comp Date	
1	4241552	COMMON LOGISTICS COMMAND AND CONTROL SYSTEM (CLCS) OPERATOR	9/17/2019	Class Completed			9/12/2019	9/12/2019	9/12/2019	Graduate	Graduate	9/12/2019	
2	8105031	MC134 LMC MOBILE TRAINING TEAM	7/13/2018	Class Completed			7/13/2018	7/13/2018	7/16/2018	Graduate	Graduate	7/27/2018	
3	40081C1	BASIC RECRUITER	2/27/2015	Class Completed			3/1/2015	3/1/2015	3/2/2015	Graduate	Graduate	4/22/2015	
4	40081C1	BASIC RECRUITER	1/26/2015	Registration Cancellation	REGISTR_CANCELLED		3/1/2015	3/1/2015	3/2/2015	Graduate	Graduate	4/22/2015	
5	2011521	SEARGENTS SCHOOL	5/16/2011	Class Completed			6/22/2011	6/22/2011	6/10/2011	Graduate	Graduate	8/10/2011	
6	2002155	MARINE COMBAT TRAINING (MCT)	1/29/2007	Class Completed			2/6/2007	2/6/2007	2/7/2007	Graduate	Graduate	2/27/2007	
7	2007009	ASSAULT AMPHIBIAN CREWMEMBER	1/15/2007	Class Completed			4/3/2007	4/3/2007	4/4/2007	Graduate	Graduate	6/8/2007	
8	2007030	RECRUIT TRAINING MASTER (MALE)	11/6/2006	Class Completed			10/27/2006	10/27/2006	10/29/2006	Graduate	Graduate	1/23/2007	

ENCLOSURE (38)

No Assault Amphibian Vehicle Commander Course

Unit

PHOS:1833 Assault Amphibian Vehicle (AAV) Crewmember

Registrations

Electronic Training Jacket (ETJ)

CID	Course	Class Code	Registered	Booking Status	Booking Sub Code	Funding Status	Funding Type	Report	Convene	Graduate	Comp Code	Word	Comp Date
M100001	INTERMEDIATE COMBAT HUNTER	2018008	6/11/2020	Class Completed				6/11/2020	6/11/2020	6/18/2020	Graduate	6/18/2020	6/18/2020
M100002	ASSAULT AMPHIBIAN CREWMEMBER	2018002	11/7/2017	Class Completed				11/26/2017	11/27/2017	3/1/2018	Graduate	3/1/2018	3/1/2018
M100003	MARINE COMBAT TRAINING (MCT)	2018001	10/3/2017	Class Completed				10/2/2017	10/3/2017	10/31/2017	Graduate	10/31/2017	10/31/2017
M100004	ASSAULT AMPHIBIAN CREWMEMBER	2018002	6/2/2017	Canceled	DDI_NOT_ATTEND			10/29/2017	10/30/2017	2/7/2018	Graduate	2/7/2018	2/7/2018
M100005	RECRUIT TRAINING (FEMALE)	2017180	6/27/2017	Class Completed				7/1/2017	7/4/2017	9/22/2017	Graduate	9/22/2017	9/22/2017

No Assault Amphibian Vehicle Commander Course

Unit

RUC:21820 3D AAV BN 1ST MARDIV
PHOS:1833 Assault Amphibian Vehicle (AAV) Crewmember

Registrations

Electronic Training Jacket (ETJ)

CID	Course	Class Code	Registered	Booking Status	Booking Sub Code	Funding Status	Funding Type	Report	Convene	Graduate	Comp Code	Word	Comp Date
M100001	MARINE ARTS INSTRUCTOR	2018187	8/15/2019	Class Completed				7/7/2019	7/8/2019	7/26/2019	Graduate	7/26/2019	7/26/2019
M100002	ASSAULT AMPHIBIAN CREWMEMBER	2018011	8/7/2018	Class Completed				8/5/2018	8/6/2018	10/24/2018	Graduate	10/24/2018	10/24/2018
M100003	ASSAULT AMPHIBIAN VEHICLE REPAIRER BASIC	2018005	6/25/2018	Canceled	DDI_NOT_ATTEND			7/25/2018	7/30/2018	11/15/2018	Graduate	11/15/2018	11/15/2018
M100004	BASIC ELECTRONICS	2018000	3/25/2018	Class Completed				3/7/2018	3/13/2018	7/30/2018	Administrative drop, will not be recycled	7/30/2018	7/30/2018
M100005	RECONNAISSANCE TRAINING ASSESSMENT PROGRAM	2018022	3/21/2018	Class Completed				3/16/2018	3/19/2018	4/24/2018	Drop on request	4/24/2018	4/24/2018
M100006	RECONNAISSANCE TRAINING ASSESSMENT PROGRAM	2018024	2/19/2018	Class Completed				2/6/2018	2/9/2018	3/16/2018	Medical drop, will be recycled	3/16/2018	3/16/2018
M100007	RECONNAISSANCE TRAINING ASSESSMENT PROGRAM	2018022	1/10/2018	Class Completed				1/2/2018	1/4/2018	2/6/2018	Administrative drop, will be recycled	2/6/2018	2/6/2018
M100008	MARINE COMBAT TRAINING (MCT)	2018002	10/18/2017	Class Completed				10/17/2017	10/17/2017	11/14/2017	Graduate	11/14/2017	11/14/2017
M100009	BASIC INFANTRY MARINE	2018002	6/11/2017	Canceled	DDI_NOT_ATTEND			10/24/2017	10/24/2017	11/21/2017	Graduate	11/21/2017	11/21/2017
M100010	RECRUIT TRAINING MASTER (MALE)	2017250	6/13/2017	Class Completed				6/12/2017	6/13/2017	9/9/2017	Graduate	9/9/2017	9/9/2017

No Assault Amphibian Vehicle Commander Course

Unit

RUC:21820 3D AAV BN 1ST MARDIV
PHOS:1833 Assault Amphibian Vehicle (AAV) Crewmember

Registrations

Electronic Training Jacket (ETJ)

CID	Course	Class Code	Registered	Booking Status	Booking Sub Code	Funding Status	Funding Type	Report	Convene	Graduate	Comp Code	Word	Comp Date
M100001	MARINE COMBAT TRAINING (MCT)	2018010	1/4/2018	Class Completed				12/19/2017	12/19/2017	1/3/2018	Graduate	1/3/2018	1/3/2018
M100002	ASSAULT AMPHIBIAN CREWMEMBER	2018006	11/2/2017	Class Completed				3/4/2018	3/5/2018	5/22/2018	Graduate	5/22/2018	5/22/2018
M100003	RECRUIT TRAINING MASTER (MALE)	2017250	9/6/2017	Class Completed				9/5/2017	9/6/2017	12/1/2017	Graduate	12/1/2017	12/1/2017

No Assault Amphibian Vehicle Commander Course

RUC:21820 3D AAV BN 1ST MARDIV
UMOS:1833 Assault Amphibious Vehicle (AAV) Crewmember

Registrations

Electronic Training Jacket (ETJ)

Registrations

Customize Columns													XLSX	PDF	Word	CSV
CID	Course	Class Code	Registered	Booking Status	Booking Sub-Code	Finding Status	Finding Type	Report	Convolve	Graduate	Comp Code	Comp Date				
M12AR22	ASSAULT AMPHIBIAN CREWMEMBER	2018010	7/13/2018	Class Completed				7/8/2018	7/9/2018	9/6/2018	Graduate	9/26/2018				
M12OR22	NARINE COMBAT TRAINING (MCT)	2018026	6/14/2018	Class Completed				6/12/2018	6/12/2018	7/10/2018	Graduate	7/10/2018				
M2AR22	ASSAULT AMPHIBIAN CREWMEMBER	2018011	8/2/2018	Canceled	DID_NOT_ATTEND			8/2/2018	9/6/2018	10/24/2018						
M2SR22	RECRUIT TRAINING MASTER (HALE)	20181E0	3/6/2018	Class Completed				3/5/2018	3/6/2018	6/1/2018	Graduate	6/1/2018				

3

USMC

(b)(6).

RUC:21820 3D AAV BN 157 MARDIV
PMDS:1833 Assault Amphibious Vehicle (AAV) Crewmember

Registrations

Electronic Training Index (ETI)

Registrations

Customer Columns													XLSX	PDF	Word	CSV
CID	Course	Class Code	Registered	Booking Status	Booking Sub Code	Funding Status	Funding Type	Report	Converts	Graduate	Comp Code	Comp Date				
M10AHQ3	ASSAULT ANPHIBIAN CREWMEMBER	201Z038	5/26/2020	Class Completed				6/4/2017	6/5/2017	8/23/2017	Graduate	5/23/2017				
M10J0B2	COMBAT MARKSMANSHIP COACH (CMC)	201ED04	5/2/2017	Class Completed				3/12/2018	3/13/2018	3/30/2018	Graduate	5/2/2019				
M10AHV2	ASSAULT ANPHIBIAN CREWMEMBER	201T009	6/29/2017	Waiting List Expiration	EXPIRED_WAITINGLIST			6/4/2017	6/5/2017	8/23/2017						
M10AHV2	ASSAULT ANPHIBIAN CREWMEMBER	201Z008	5/19/2017	Class Completed				5/14/2017	5/15/2017	8/3/2017	Medical drop, will be recycled	6/19/2017				
M030924	MARINE COMBAT TRAINING (MCT)	201T033	4/14/2017	Class Completed				4/10/2017	4/11/2017	5/9/2017	Graduate	5/9/2017				
M10AHV2	ASSAULT ANPHIBIAN CREWMEMBER	201T009	3/9/2017	Cancelled	DID_NOT_ATTEND			6/4/2017	6/5/2017	8/23/2017						
M05E0B3	RECRUIT TRAINING MASTER (MALE)	201Z039	1/4/2017	Class Completed				1/7/2017	1/10/2017	3/31/2017	Graduate	2/31/2017				

OS/ID	1st Name	2nd Name	Mt. Grade	System	Reeling Code	Res. Date	Geographical Code	Comp. Date
MPF-20	COMPLETE	20170309 0004	Graduate					3/23/2017
RAP	COMPLETE	20170516 1542	Graduate					5/23/2017
MPF-20	COMPLETE	20170607 2045	Graduate					6/23/2017
RAP	COMPLETE	20170423 1335	Graduate					5/23/2017
MPF-20	COMPLETE	20170309 0004	Graduate					3/23/2017
MPF-20	COMPLETE	20170309 0004	Graduate					3/23/2017
MPF-20	COMPLETE	20170607 2112	Graduate					6/23/2017
MPF-20	COMPLETE	20170609 0604	Graduate					6/23/2017
MPF-20	COMPLETE	20170309 0604	Graduate					3/23/2017
MPF-20	COMPLETE	20170319 1738	Graduate					3/23/2017
MPF-20	COMPLETE	20170309 0604	Graduate					3/23/2017
MPF-20	COMPLETE	20170607 2112	Graduate					6/23/2017
MPF-20	COMPLETE	20170309 0004	Graduate					3/23/2017
RAP	COMPLETE	20170516 1542	Graduate					5/23/2017
MPF-20	COMPLETE	20170607 2112	Graduate					6/23/2017
MPF-20	COMPLETE	20170607 2112	Graduate					6/23/2017
MPF-20	COMPLETE	20170321 0004	Graduate					3/23/2017
RAP	COMPLETE	20170511 2613	Graduate					5/23/2017
MPF-20	COMPLETE	20170311 2613	Graduate					3/23/2017
MPF-20	COMPLETE	20170607 2112	Graduate					6/23/2017
MPF-20	COMPLETE	20170607 2112	Graduate					6/23/2017
MPF-20	COMPLETE	20170607 2045	Graduate					6/23/2017
MPF-20	COMPLETE		Graduate					6/23/2017






























This roster to the left is the Class historical documents Graduation Roster verified he did AAC 09-17.

I noticed his registration was expired in MCTIMS and he did not get completion coded for this class, so I retroactively did it since I had proof he completed the course.

(b)(3), (b)(6), (b)(7)(c)

ENCLOSURE (38)

2009

Course: ASSAULT AMPHIBIOUS VEHICLE REPAIRER BASIC M1018V3 ★                             

School: ASSAULT AMPHIBIOUS SCHOOL BATTALION Camp Pendleton, CA

Organizational Authority: Training Command (TRNGCND)

OSLOC:              

Length: 110

Frequency: 6




Class ID: 2009409 Meeting: 4/26/2009 Convening: 4/27/2009 Graduating: 8/7/2009

Class Status: Validated

Undo Validation

ALLOCATIONS/REGISTRATION

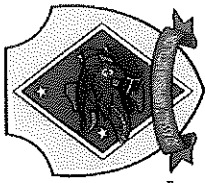
CLASS ROSTER

Cancel Selected Students  Force Cancel Selected Students  Force Register Selected Students Registered  Wait List  Cancelled  Pending  View All Students 

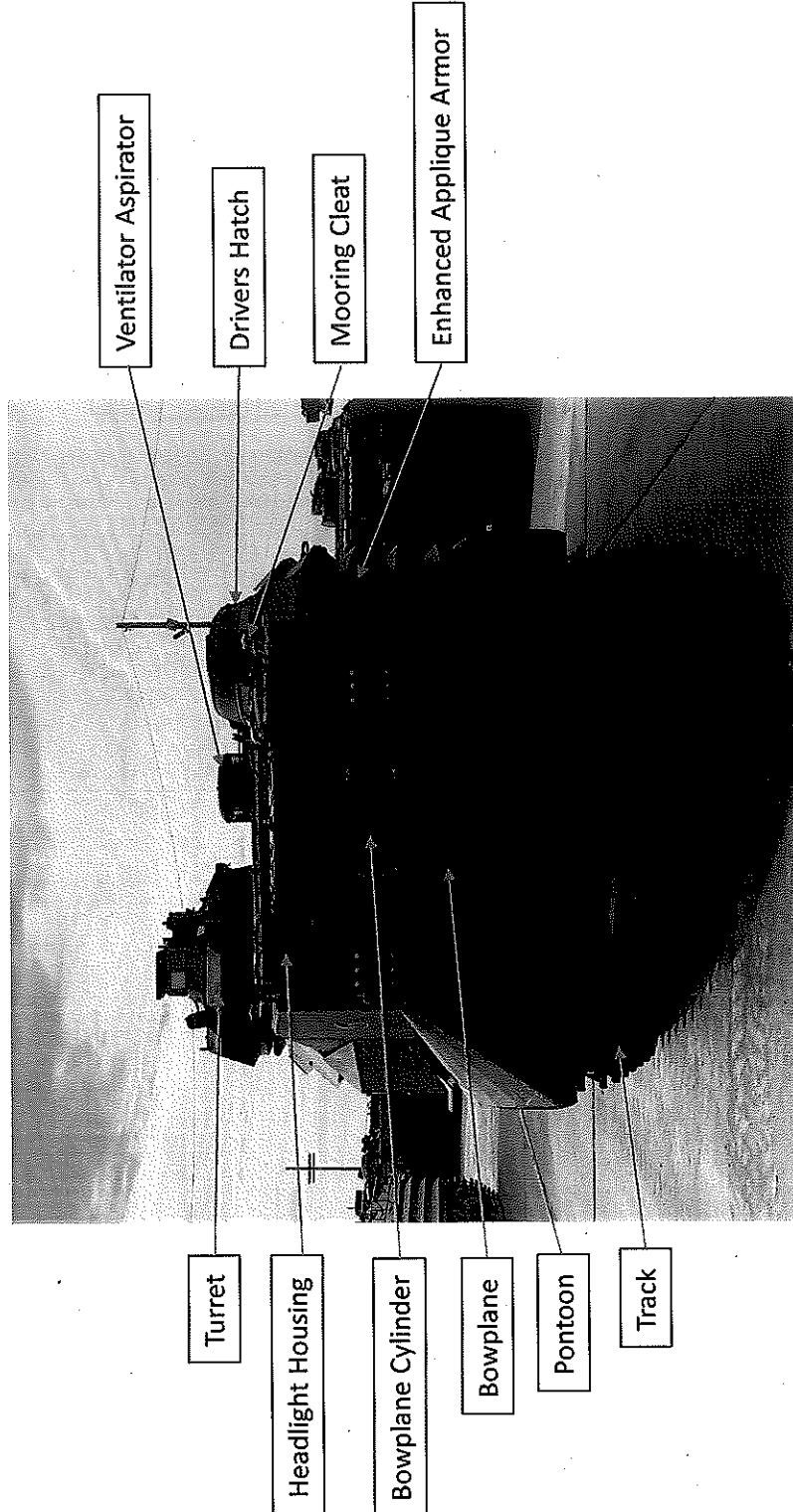
Save Completion Codes

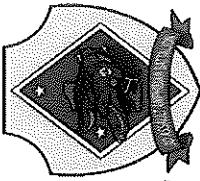
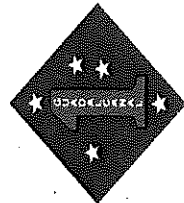
Default Completion Codes (Select)

Select	DoD ID	Last Name	First Name	MI	Grade	PMOS	Sponsor	Backlog Code	Sub Backlog Code	Req. Date	Ending Status	Ending Type	MOS	Stud. Type	Stud. Qual	Completion Code	Comp. Date	Custom Columns	XLSX	PDF	Word	CSV
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							MPB-20	COMPLETE		20090123 0515			2165	CEE		Graduate	2009-08-07					
							MPB-20	COMPLETE		20090107 0515			2165	CEE		Graduate	2009-08-07					
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							MPB-20	COMPLETE		20090130 0515			2165	CEE		Graduate	2009-08-07					
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							MPB-20	COMPLETE		20090107 0515			2165	CEE		Graduate	2009-08-07					
							MPB-20	COMPLETE		20090107 0515			2165	CEE		Graduate	2009-08-07					
							MPB-20	COMPLETE		20090107 0515			2165	CEE		Graduate	2009-08-07					
							MPB-20	COMPLETE		20090107 0515			2165	CEE		Graduate	2009-08-07					
							MPB-20	COMPLETE		20090107 0515			2165	CEE		Graduate	2009-08-07					
							MPB-20	COMPLETE		20090107 0515			2165	CEE		Graduate	2009-08-07					
							MPB-20	COMPLETE		20090107 0515			2165	CEE		Graduate	2009-08-07					
							MPB-20	COMPLETE		20090107 0515			2165	CEE		Graduate	2009-08-07					
							MPB-20	COMPLETE		20090107 0515			2165	CEE		Graduate	2009-08-07					
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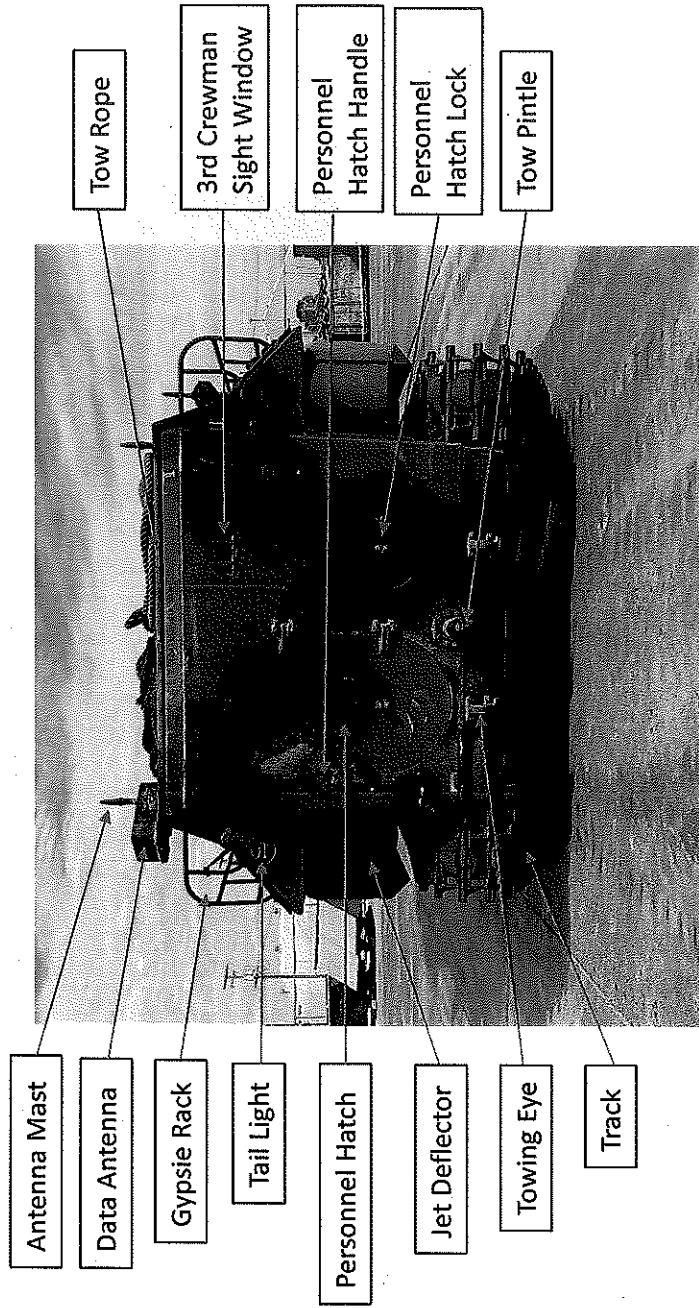


FRONT EXTERIOR



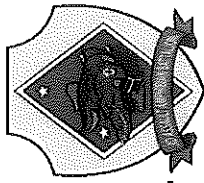


REAR EXTERIOR





PORT EXTERIOR



Troop
Commanders
Hatch

Drivers Hatch

Mooring Cleat

External Fire
Extinguisher
Handle

Sprocket Carrier

Track

Road Wheel

Mooring Cleat

Road Wheel

Road Wheel Hub

Dual Support Roller

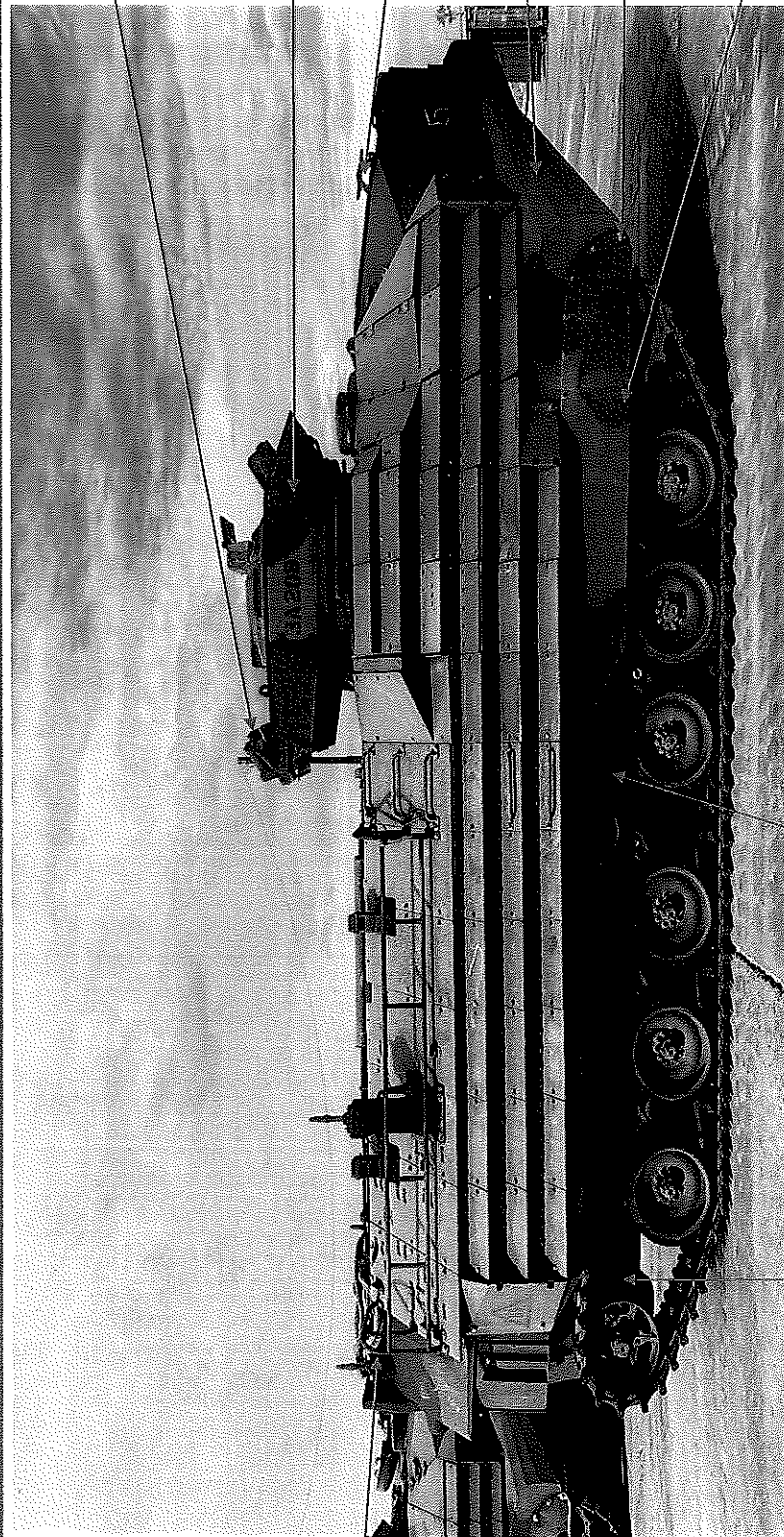
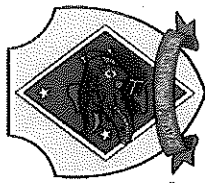
Single Support Roller

Idler Wheel

ENCLOSURE (3)



STARBOARD EXTERIOR



Smoke
Grenade
Discharger

Turret

Mooring
Cleat

Pontoon

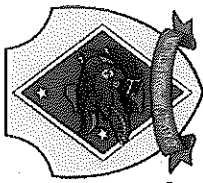
Pontoon
Plug

Track
Shroud

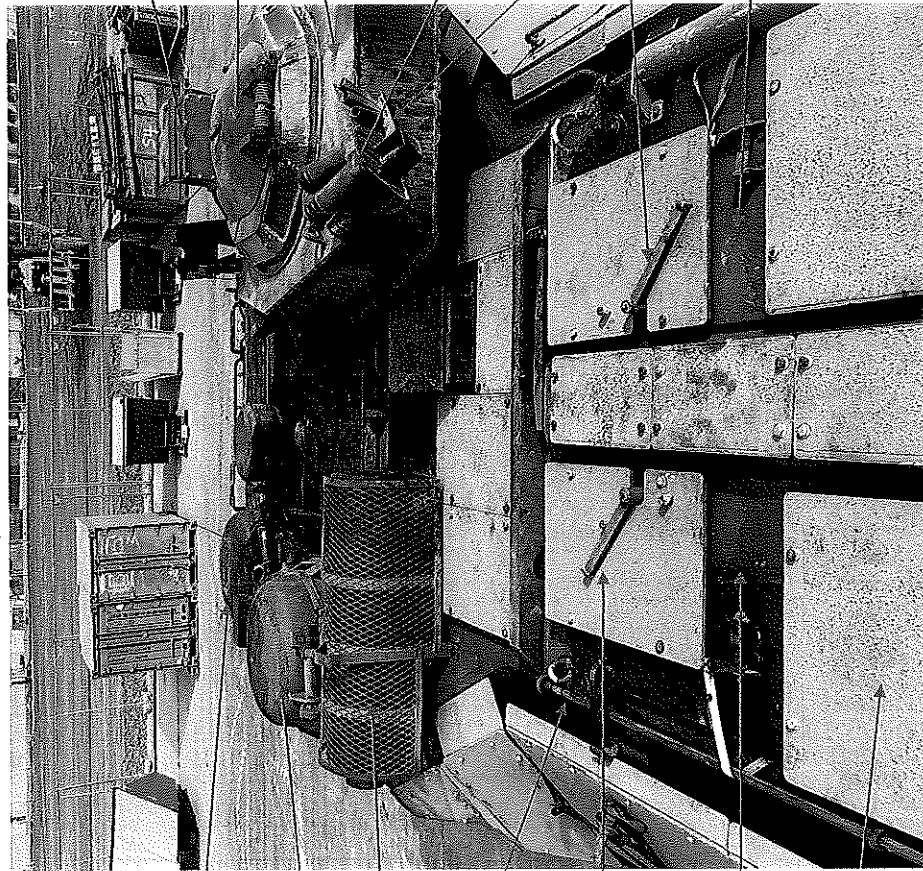
Mooring
Cleat

Shock

Track Tension Adjuster



EXTERIOR TOP VIEW HATCHES CLOSED



Sight Block

Turret Hatch

Turret

Smoke Grenade
Launcher

Range Flag Holder

Starboard Side Cargo
Hatch Forward Handle

Starboard Side Cargo
Hatch

Drivers Hatch

Troop Commanders
Hatch

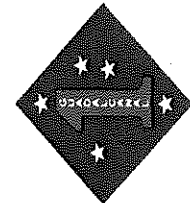
Exhaust

Cargo Hatch Torsion
Bar Spring

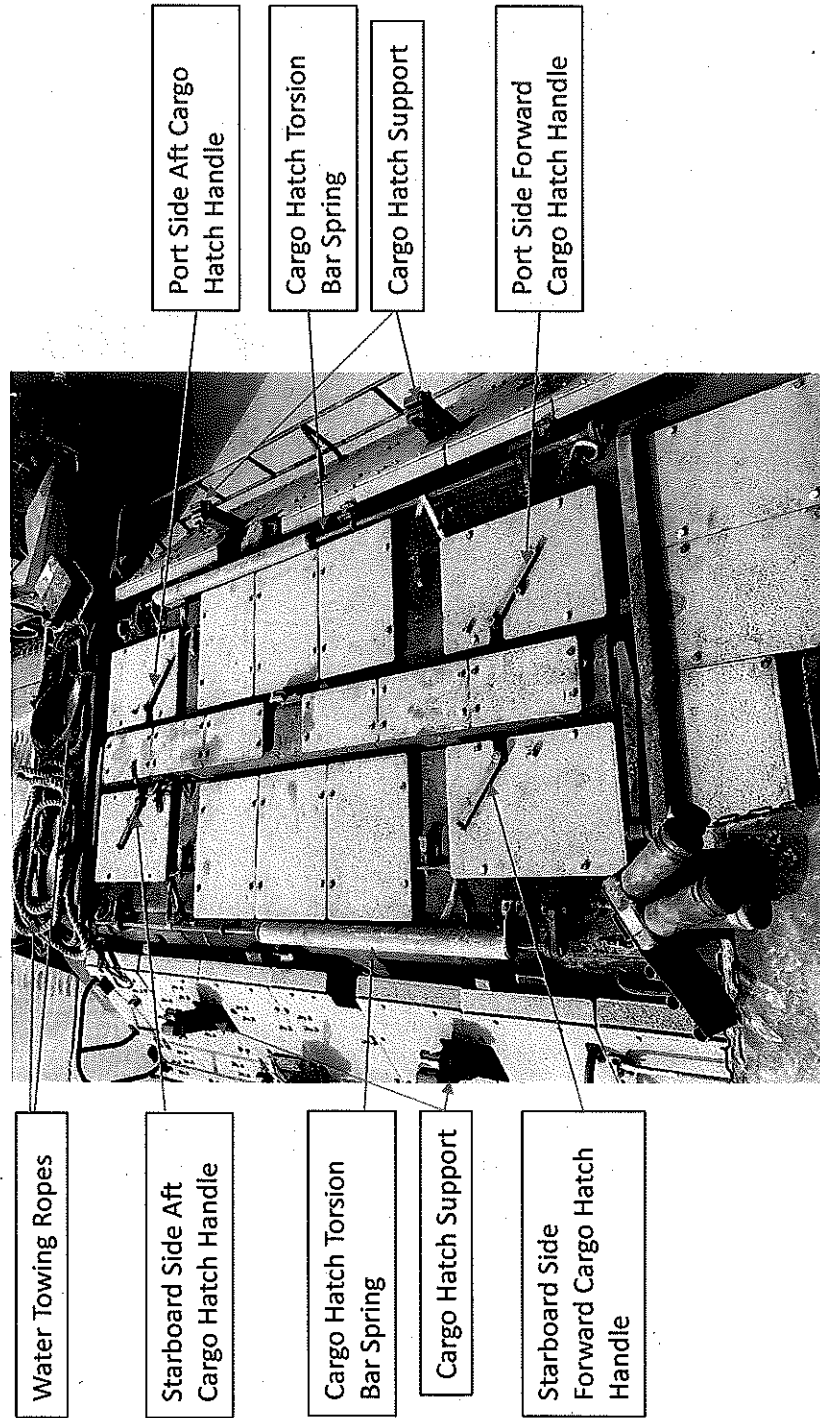
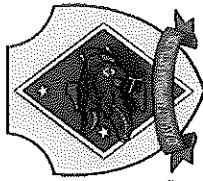
Port Side Cargo Hatch
Forward Handle

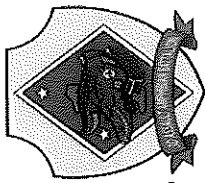
Port Side Cargo Hatch

Enhanced Applique
Armor Panel

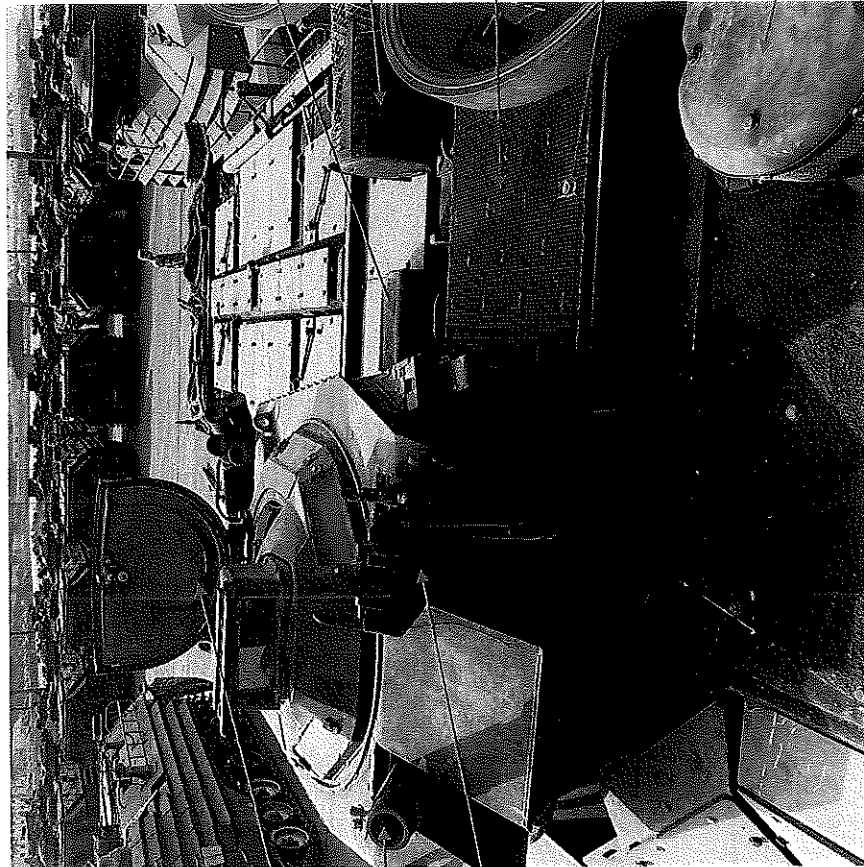


EXTERIOR TOP VIEW HATCHES CLOSED CONT.





TURRET HATCH OPEN



Engine Compartment
Ventilation Air Outlet

Exhaust

Exhaust Plenum

Exhaust Plenum Indicator

Ventilator Aspirator

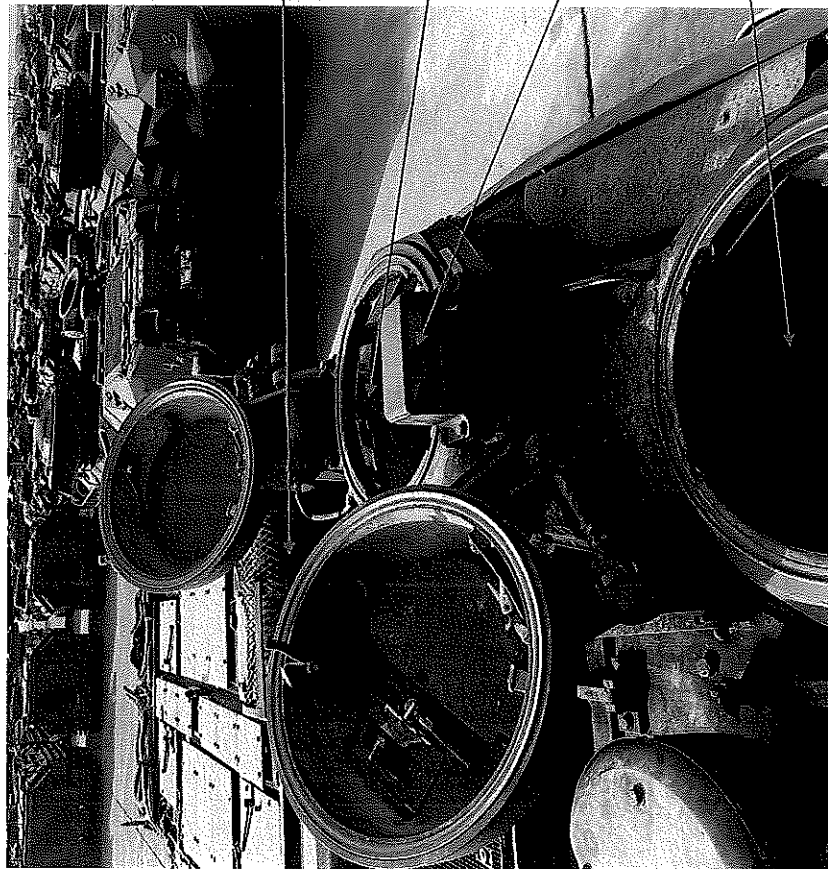
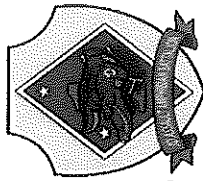
Vehicle Commanders Hatch

M2 .50 Caliber Machine
Gun Mount

MK-19 Automatic Grenade
Launcher Mount



DRIVER AND TROOP COMMANDER HATCHES OPEN

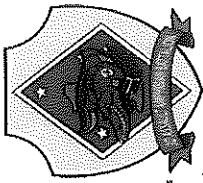


Exhaust

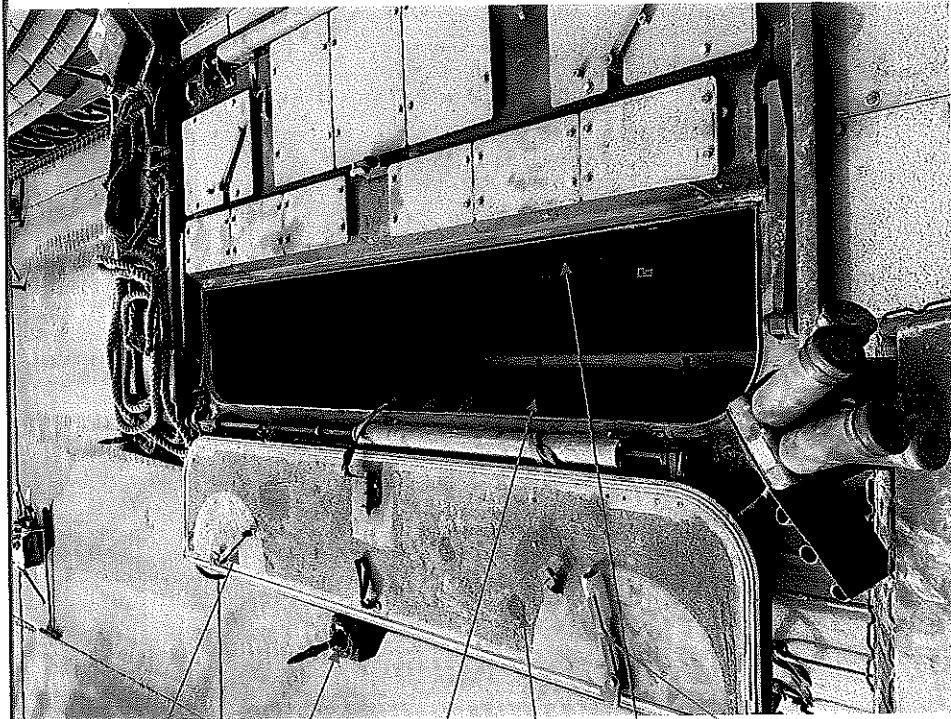
Troop Commanders
Hatch

Troop Commanders
Sight Block

Drivers Hatch



STARBOARD CARGO HATCH OPEN



Starboard Side Aft
Cargo Hatch Handle

Antenna Mount

Starboard Side Bench
Seat

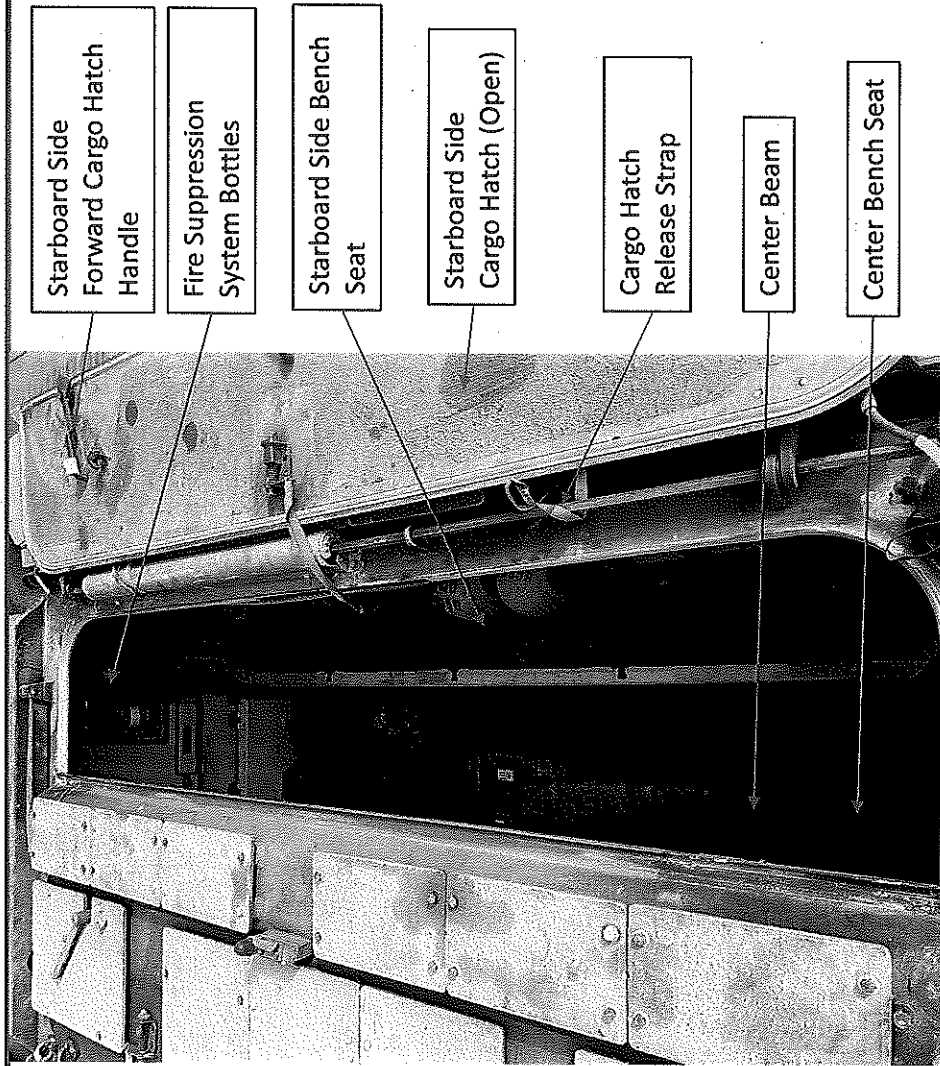
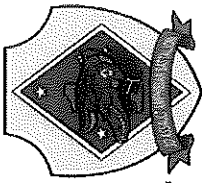
Starboard Side
Cargo Hatch (Open)

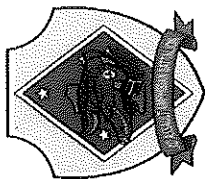
Center Bench Seat

Starboard Side
Forward Cargo Hatch
Handle

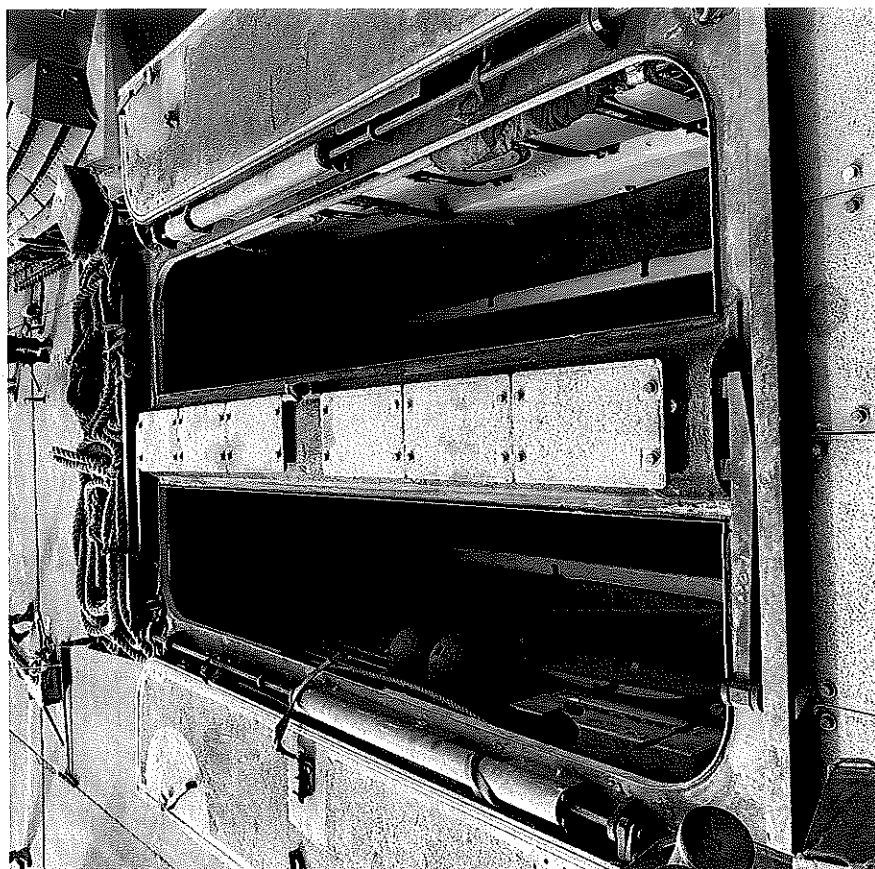


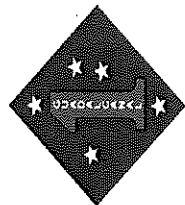
STARBOARD CARGO HATCH OPEN CONT.



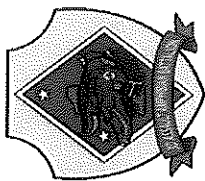


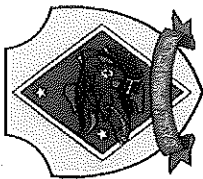
PORT / STARBOARD CARGO HATCHES OPEN



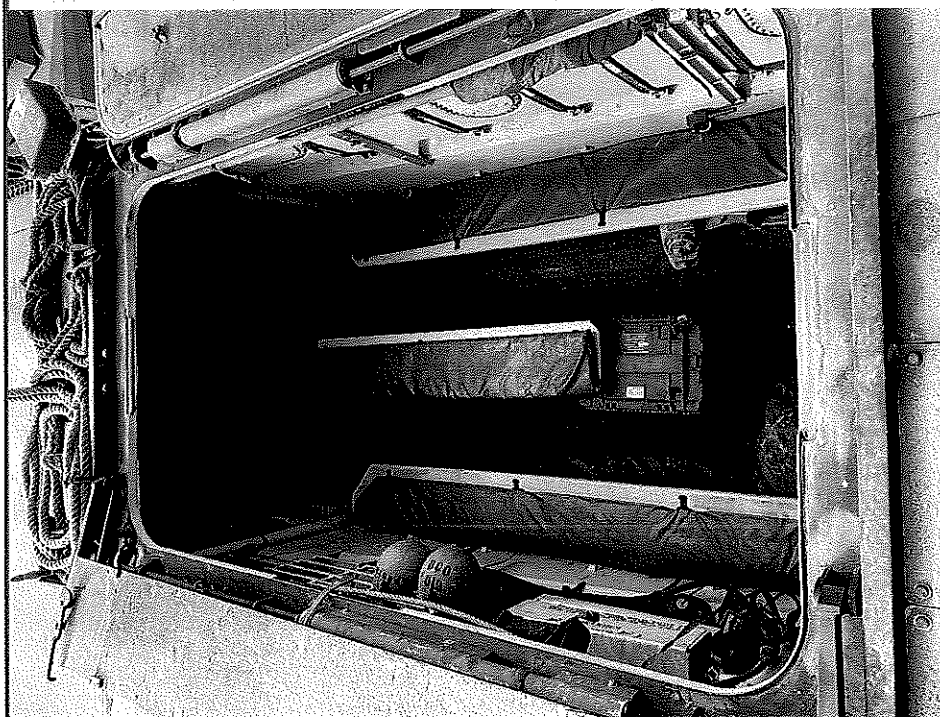
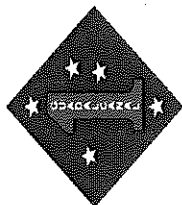


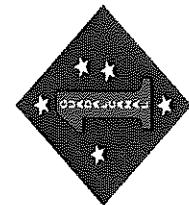
PORT / STARBOARD CARGO HATCHES OPEN CONT.



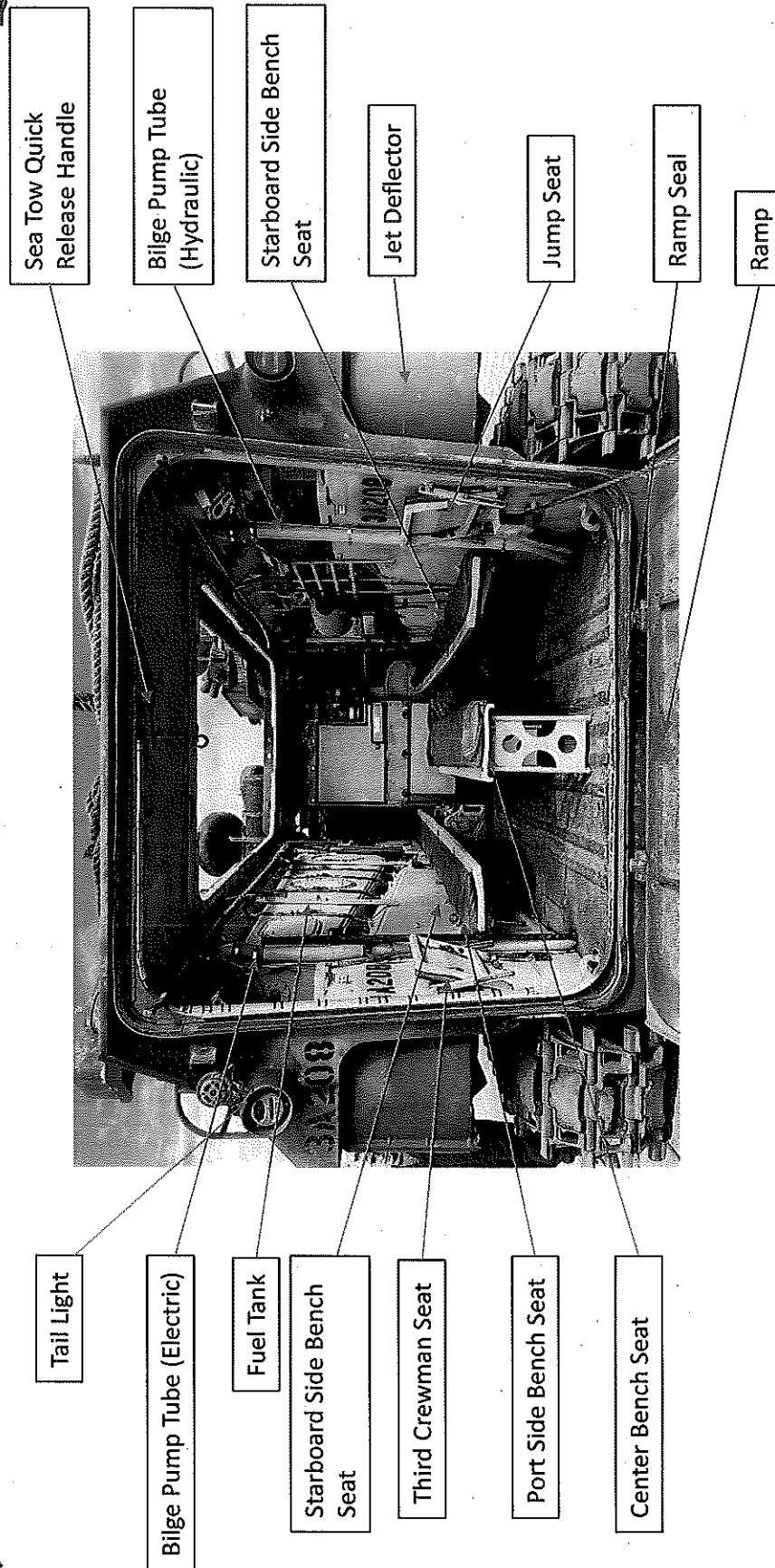
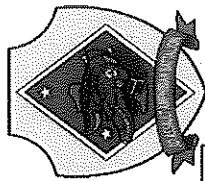


PORT / STARBOARD / CENTER CARGO HATCHES OPEN





RAMP DOWN INTERIOR VIEW



RATE BENEATH A STREAM OF WATER FROM THREE OVERHEAD FAN-SHAPED NOZZLES WITH A TOTAL DISCHARGE OF 400 ± 10 GALLONS PER MINUTE. THE TESTING PERIOD, WHICH REPRESENTS THE TIME TO PULL THE VEHICLE LENGTHWISE AT A CONSTANT RATE BENEATH THE NOZZLE FLOW, SHALL BE 12 MINUTES \pm 30 SECONDS.

LEAKAGE FROM THE CARGO HATCH SHALL BE SEGREGATED AND COLLECTED SEPARATELY. ALL OTHER LEAKAGE SHALL AGGREGATE INTO THE BILGE. ALLOWABLE TOTAL LEAKAGE FOR THE CARGO HATCH SHALL NOT EXCEED 9 GALLONS AND FOR THE REMAINING AGGREGATE SHALL NOT EXCEED 18 GALLONS.

4.5.2.6 STOWAGE CHECK. TO DETERMINE CONFORMANCE TO 3.4.11. ALL MANUFACTURER AND DEPOT INSTALLED COLLATERAL EQUIPMENT SHALL BE STOWED (COMBAT LOADED) ON THE SELECTED VEHICLE. ALL INTERIOR AND EXTERIOR ITEMS SHALL FIT IN THE SPACES PROVIDED. THOSE SMALL ITEMS SUCH AS WRENCHES, SOCKETS, PAINT BRUSHES, SCRIBES, ETC., THAT WOULD SERVE NO FUNCTION OR PURPOSE IN THE STOWAGE CHECK MAY BE OMITTED AND THOSE NOT PHYSICALLY STOWED SHALL BE VISUALLY CHECKED FOR STOWABILITY. THE EQUIPMENT SHALL BE REMOVED AFTER THE TEST. THE COLLATERAL EQUIPMENT USED SHALL BE OF THE LATEST PRODUCTION AVAILABLE TO THE CONTRACTOR. THE CONTRACTOR SHALL BE PERMITTED TO UNPACK AND REPACKAGE EQUIPMENT USED FOR TEST.

4.5.2.7 DRIVERS NIGHT VISION DEVICE (AN/VVS-2). TO DETERMINE CONFORMANCE TO 3.4.13, UNITS SHALL BE INSTALLED IN THEIR PROPER RECEPTACLE AND CHECKED FOR BINDING AND INTERFERENCE.

SIZE A	CODE IDENT NO. 80064	DRAWING NO. 2600170
SCALE	REV E	SHEET 40

OD 3025 (12/84)

ENCLOSURE (40)

4.5.2.1 FREQUENCY. THE FIRST VEHICLE OFF THE PRODUCTION LINE AND THEREAFTER ONE PER MONTH SHALL BE CHECKED IN ACCORDANCE WITH THE FOLLOWING CONTROL TESTS, EXCEPT FOR CLOSURE WATER TIGHTNESS (4.5.2.5) WHICH SHALL OCCUR ON ONE (1) OUT OF EVERY EIGHT (8) VEHICLES.

4.5.2.2 TEST FAILURE. IF A VEHICLE FAILS TO PASS ANY CONTROL TEST SPECIFIED HEREIN, THE GOVERNMENT INSPECTOR MAY STOP ACCEPTANCE OF SUBSEQUENT LOTS UNTIL EVIDENCE HAS BEEN PROVIDED BY THE CONTRACTOR THAT CORRECTIVE ACTION HAS BEEN TAKEN.

4.5.2.3 SPECIAL MISSION KITS CHECK. (WHEN REQUIRED, SEE 6.2).

4.5.2.3.1 LITTER KIT. THE LITTER KIT SHALL BE INSTALLED PER DETAIL DRAWING AND CHECKED FOR FIT.

4.5.2.4 FUEL TANK CHECK. TO DETERMINE CONFORMANCE TO 3.4.4.1 THE TANK SHALL BE FILLED TO CAPACITY AT A RATE OF NOT LESS THAN 50 GALLONS PER MINUTE. THE TANK AND LINES SHALL BE CHECKED FOR LEAKS BEFORE AND AFTER A ROAD TEST ON SMOOTH, LEVEL HARDSURFACED ROADS.

4.5.2.5 CLOSURE WATER TIGHTNESS. TEST METHOD AND APPARATUS SHALL CONFORM TO TEST AND INSPECTION PROCEDURE 53711-5429064. TO DETERMINE CONFORMANCE TO 3.4.7, ALL HATCHES, DOORS AND PLENUMS SHALL BE CLOSED AND LOCKED, AND THE ENGINE EXHAUST, ASPIRATOR, ENGINE COMPARTMENT VENTILATION OUTLET, BILGE PUMP OUTLET AND ANY OPENINGS NORMALLY HAVING EQUIPMENT INSTALLED SHALL BE SEALED. THE VEHICLE SHALL BE TOWED AT A CONSTANT

SIZE	CODE IDENT NO.	DRAWING NO.
A	80064	2600170
SCALE	REV E	SHEET 39

#83

APPLICATION		REVISIONS				
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED	
2600000	AAVP7A1	D	REDRAWN AND REVISED ECP E02090 SEE NOR 51900 ECP E02083 SEE NOR 51422 ECP E02134 SEE NOR 52172 ECP E02126 SEE NOR 52078 ECP M31166 SEE NOR 70462 ECP M31258 SEE NOR 71232 ECP M31236 SEE NOR 71151	8-20 89		
			E	ECP E02124 SEE NOR 52681	4-26 87	(b)(3), (b)(6), (b)(7)(c)
			F	ECP 5050RICI SEE NOR 80310	89- 01-06	
			G	ECP 5139 SEE NOR 81640	12-24-90 20742	

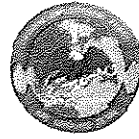
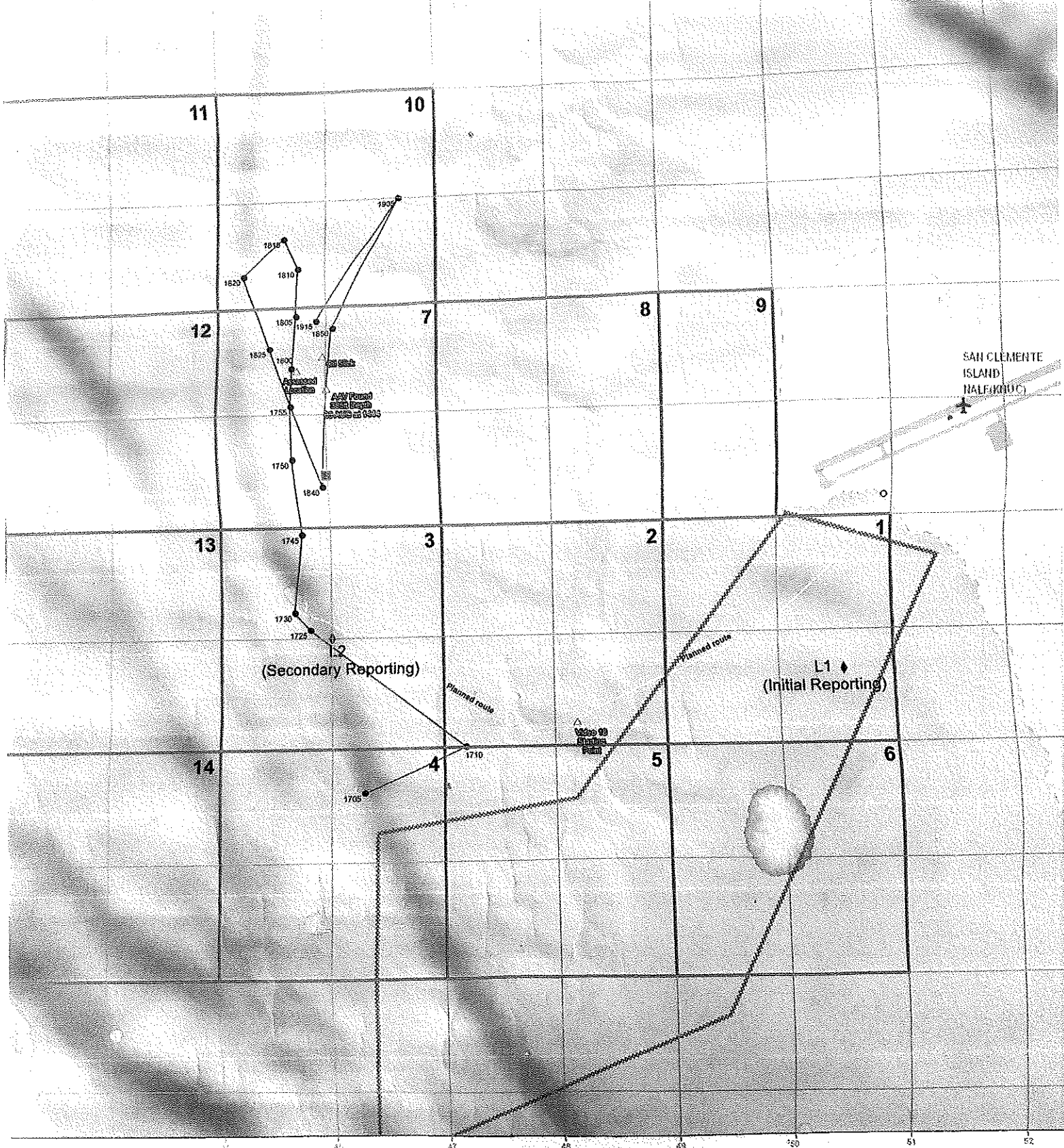
NOTES:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-STD-100
- CODE IDENT
53711-NAVAL SEA SYSTEMS COMMAND, WASHINGTON D.C. 20362
19204-ROCK ISLAND ARSENAL, ROCK ISLAND, IL 61201
19207-U.S. ARMY TANK AUTOMOTIVE COMMAND, WARREN, MI 48090

REV	E	G	E	E	E	E	F	F	E	E	E	E	E	E	E	E	E	E	E		
SHEET	41	42	43	44	45	46	47	48	49	50	51	52									
REV	D	D	D	D	D	D	D	D	D	D	D	G	E	D	D	F	F	F	G	E	E
SHEET	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	

REV	G	D	F	G	F	D	D	D	F	F	F	D	D	D	D	D	D	D	D	D	D
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON		CONTRACT NUMBER N00024-77-C-2028 FMC Corporation CIN 80212 Ordnance Engineering Division San Jose California 95108		DEPARTMENT OF THE NAVY NAVAL SEA SYSTEMS COMMAND WASHINGTON, D.C. 20362	
ANGLES DECIMALS = .XX ± . XXX ± .		DATE OF DWS 6 JUNE 79		ASSAULT AMPHIBIOUS PERSONNEL CARRIER (AAVP7A1) SPECIFICATION FOR	
MATERIAL (b)(3), (b)(6), (b)(7)(c) (b)(3), (b)(6), (b)(7)(c)		INSPECTION ENGR (b)(3), (b)(6), (b)(7)(c) (b)(3), (b)(6), (b)(7)(c)		MATERIAL ENGR (b)(3), (b)(6), (b)(7)(c) WELDING ENGR	
SIZE		CODE IDENT NO.		DRAWING NO.	
A		80064		2600170	
SCALE NONE		UNIT WT — LB		SHEET OF 52	



PROUS SOURCES.

LEGEND

- △ Location of Interest
- ◆ Reported Locations
- Survivor Pick-Up Location (1930)

1. The map shows the location of the aircraft carrier USS *ESSEX* (CV-9) and the location of the aircraft carrier *ESSEX* (CV-9) at the time of the crash.

2. The map shows the location of the aircraft carrier *ESSEX* (CV-9) at the time of the crash.

3. The map shows the location of the aircraft carrier *ESSEX* (CV-9) at the time of the crash.

4. The map shows the location of the aircraft carrier *ESSEX* (CV-9) at the time of the crash.

5. The map shows the location of the aircraft carrier *ESSEX* (CV-9) at the time of the crash.

6. The map shows the location of the aircraft carrier *ESSEX* (CV-9) at the time of the crash.

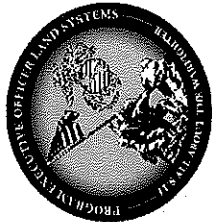
ENCLOSURE (41)

AAV WATER SPEED ESTIMATES

(b)(6), (b)(7)(c) from Naval Surface Warfare Center, Carderock Division (NSWCCD) and (b)(6), (b)(7)(c) an Engineer from Program Management, Advanced Amphibious Assault, developed an estimate for the time required for AAV to traverse 1 Nautical Mile in Sea States 1 - 4.

<u>Sea State</u>	<u>AAV Speed (Knots)</u>	<u>1 NM Traverse Time*</u>
1	6.5	9 min 12 sec
2	6.2	9 min 42 sec
3	5.5	10 min 54 sec
4	4.0	15 min 0 sec

* Sea States 3 and 4 can include randomly occurring waves of 10 and 16 feet high (respectively), which will increase the time.



(U) Unclassified

Waterlines at Various Weight Conditions



Crew Loaded Weight
This is the equivalent of Combat Equipped Weight
52,120 Lbs



Troop Loaded Weight
58,105 Lbs



Troop Loaded Flooded to
EELS Weight
*This is equivalent to boot ankle height
63,500 Lbs

ENCLOSURE (43)

(U) Unclassified



(U) Unclassified

Freeboard and Reserve Buoyancy



Condition	Weight (lbs)	Freeboard: Port Forward (in.)	Freeboard: Starboard Forward (in.)	Freeboard: Port Aft (in.)	Freeboard: Starboard Aft (in.)
Combat Equipped	52,120	16.6	16.0	29.0	28.3
Troop Loaded (TL)	58,105	16.8	16.6	19.6	19.3
TL-Flooded to Deckplate*	60,305	17.3	17.3	15.4	15.4
TL- Flooded to EELS	63,500	15.6	15.4	11.9	11.6

As seen in the lower picture on the previous slide, as the weight of the vehicle increases, there is a significant loss of freeboard as the trim angle changes.

(U) Unclassified

3d AABN Water Tight Integrity Checklist

Vehicle USMC # 523519

Vehicle Tac # _____

#	DESCRIPTION	SERVICEABLE	UNSERVICEABLE	DEGRADED	REMARKS
1	RAMP AND RAMP SEAL: Inspect ramp and ramp seal surfaces and seals for damage per TM 09674A-25&P/4C Chapter 8 PAR. 8-27 pg. 8-110 through pg. 8-117 with table 8-15 and FOV LTI.	✓			
2	PERSONNEL HATCH AND PERSONNEL HATCH SEAL: Inspect personnel hatch and personnel hatch seal per TM 09674A-25&P/4C Chapter 8 PAR. 8-31 pg. 8-136 through pg. 8-140 with table 8-21 and FOV LTI.			✓	
3	HULL PLUGS, CONTACT COOLER PLUGS AND PONTOON PLUGS: Inspect plugs per TM 09674A-10/3C Chapter 2 PAR. 2-9 pg. 2-74 with appendix I pg. 5 and FOV LTI.	✓			
4	WATER PROPULSION SYSTEM (INTERNAL): Inspect water propulsion system per TM 09674A-25&P/4C Chapter 9 PAR. 9-16 and 9-17 pg. 9-45 through pg. 9-68 with table 9-19 and FOV LTI.	✓			
5	WATER PROPULSION SYSTEM (EXTERNAL): Inspect water propulsion system per TM 09674A-25&P/4C Chapter 9 PAR. 9-20 and 9-21 pg. 9-90 through pg. 9-108 with tables 9-24/25 and FOV LTI.				
6	MID-SHIP SEALS AND BEARINGS: Inspect mid-ship seals and bearings per TM 09674A-25&P/4C Chapter 9 PAR. 9-18 pg. 9-69 through pg. 9-71 with tables 9-20 and FOV LTI.	✓			
7	BILGE PUMPS: Inspect bilge pumps per TM 09674A-10/3C Chapter 2 PAR. 2-19 pg. 2-74&75 with appendix I pg. 5 and FOV LTI.				
7A	Forward-Port: Hydraulic Bilge Pump.	✓			
7B	Forward-Starboard: Electric Bilge Pump.	✓			
7C	Aft-Port: Electric Bilge Pump.	✓			
7D	Aft-Starboard: Hydraulic Bilge Pump.			✓	
8	FINAL DRIVE MATING SURFACE: Visually inspect the final drive to hell mating surfaces for any cracks or separation.				
9	DRIVER, TROOP COMMANDER, TURRET AND CARGO HATCHES AND SEALS: Inspect drivers, troop commander, turret and cargo hatches and seals per TM 09674A-25&P/4C Chapter 8 PAR. 8-21, 8-23 and TM 1004A-25&P/2D PAR. 6-19 with FOV LTI.	✓			Small Cargo Hatch Leak

(b)(3), (b)(6), (b)(7)(c)

Date

20060407

Inspected by:

Platoon Commander: _____

Maintenance Officer: _____

Company Commander: _____

(b)(3), (b)(6), (b)(7)(c)

ENCLOSURE (44)

Skylla Engineering Ltd
407 E Main St.
Humble TX, 77338

19 Aug 2020

From: (b)(6), (b)(7)(c) Field Service Representative PMAAVS

Subj: SINKING OF VEHICLE 523519 ON 30 JULY 2020

Encl: Limited Technical Inspection (LTI)

I (b)(3), (b)(6), (b)(7)(c) was requested to provide a Limited Technical Inspection (LTI) and provide findings and opinions on the mechanical state of the vehicle listed above. The vehicle hull was checked for water intrusion by spraying water over top deck of vehicle to check hatches and plenum doors. Vehicle was then backed into water until buoivant. Ramp seal, door seal, and lower hull were checked for leaks. I was assisted by (b)(6), (b)(7)(c) during this inspection. The findings are as follows:

a. Positions of vehicle controls/switches:

1. Master Switch was in ON position
2. Power Train Switch in ON position
3. Mode selector Switch in "Water Jets"
4. Electric Bilge pumps in ON position
5. Vent Fan was on and in HIGH position
6. Emergency Egress Lighting system (EELS) was in disable position
7. Gear Sector was in 4th gear forward position
8. Ramp Lock Handle was unlatched, ramp dogs were still engaged to ramp.

Note: All switches were in the correct position for water operations. Gear selector is usually in neutral but can be placed in gear during rough seas to keep vehicle bow up. By the deadline criteria for this vehicle, EELS is not required to be operational to conduct water operations.

b. Vehicle Discrepancies found during LTI:

1. Port headlight electrical thru-hull connector not properly installed leaving opening for water to get inside hull. Opening is approximately 1 inch in diameter.
2. Ramp Personnel Door Handle loose, door does not close tight. Thru hole in ramp for handle shaft has excess play.
3. Both forward Bow Pods have damage. Starboard side has a 12" by 12" square piece of metal plate missing. Port side is damaged in the same area as starboard side but is still intact.
4. Ramp has damage on the inside starboard side flat plate. Outside starboard edge of ramp cracked. Ramp is leaking water from this area.
5. Suspension support plates had cracks on Starboard number 2,3,4,5 and Port number 4.
6. EEAK armor missing mounting hardware securing plates to hull in multiple areas.

ENCLOSURE (45)

Subj: SINKING OF VEHICLE 523519 ON 30 JULY 2020

7. Plenum center plate had 1 bolt not tight.
8. Missing DVE drivers hatch plug.
9. Starboard rear Hydraulic Bilge pump possibly not pumping. No oily residue on cover.
10. Starboard cargo hatch seal needs replaced.
11. Ventilator/Aspirator was sticking, should have free movement.
12. Cooling Tower not installed correctly. Cooling tower seal was not sealing against center plate. Missing all mounting hardware to secure cooling tower to power plant.
13. Components that were contaminated with sea water are engine, final drives, right angle drives.
14. Transmission had no visible oil on dipstick.
15. Engine and Transmission drain lines were not stored correctly and were laying on the deck. Transmission drain plug was loose.
16. Water pump belt was not at the correct belt tension.
17. Air Cleaner housing was not bolted in rear mounts.
18. Missing all fire bottle tags for weight and date.
19. Rear AFSSS sensor wiring harness unplugged.
20. Turret sight is unserviceable, broken sight glass.
21. Crossbar arm for Elevation Mechanism upper mount bent.
22. Port side smoke grenade mount bent.
23. Flag bracket corroded and bent.
24. Sight power cable not installed correctly.
25. Elevation Mechanism not mounted at top mount to arm.

Note: Vehicle and Turret operation section of the LTI were not performed due to not being able to start vehicle because of no electrical power.

c. Water intrusion tests:

1. Water was sprayed on intake and exhaust plenum grills. Water leakage was not measured, but a significant amount of water was leaking through both grills.
2. Water was sprayed over the port and starboard cargo hatch area. Water leakage was minimal.
3. Water was sprayed into missing headlight connector in front bow. Water leakage was not measured but a significant amount of water leaked through bow pod drain into vehicle engine compartment.
4. Vehicle was backed into jetty to test the ramp seal and ramp personnel door seal. Water leakage was minimal on ramp seal. Personnel door seal was leaking significant more than allowed.
5. Internal ramp face did not leak inside vehicle.
6. Lower Hull was inspected for leaks. Leaks were found on the number 2 port side road arm assembly to hull area. Number 4 port torsion bar anchor area also had minor leaking.
7. Port and Starboard midship seals had minor leaks.

ENCLOSURE (45)

Subj: SINKING OF VEHICLE 523519 ON 30 JULY 2020

d. Plenum inspection:

1. Vehicle plenum was removed and using a donor vehicle to power the hydraulic cylinders, the exhaust and intake plenums were function tested. Internal door hinges, seals, cylinders, and the locking roller assembly were inspected on both intake and exhaust sides.
2. Internal door seals were not torn, although one of the seals (intake side) had a slight roll/cup. Using feeler gauges, the fit between the internal door and seal was checked for contact. It was found that there were areas that did not seem to make contact. This would be a cause for a leak.
3. Plenum housing seal to hull was inspected with no significant findings found.

e. Propulsion shafts will not turn:

1. Disconnected propulsion system at the lateral drive shaft to right angle drive units. Once disconnected the propulsion system would rotate from the right angle drive units. The Power Take-off (PTO) marine drive clutch was frozen and the cause of shafts not rotating.

f. Rear Hydraulic Bilge Pump:

1. Hydraulic bilge pump was pulled and inspected to see if it was frozen. Pump was not frozen. Inspected Inlet screen and discharge tube and no discrepancies were found.

g. Opinion:

The above listed findings can be found on any vehicle out in the fleet. This vehicle had "no one" discrepancy that would of caused it to sink. There had to be a sequence of failure of components and or changes in sea conditions. My synopsis of the events would be as follows:

1. The first component that failed was the transmission. The failure was caused by the loose drain line plug allowing the oil to leak out at a slow steady pace.
2. When the Transmission lost enough oil, the Marine Drive clutch would have failed causing the propulsion units to quit working.
3. The driver would have then put the transmission into 4th gear to gain movement in the water. Oil is still leaking out of the drain line because of loose plug.
4. Once vehicle lost momentum in the water because of complete transmission failure due to lack of oil, the engine was probably put at an idle. The forward hydraulic bilge pump would not be pumping out water due to low engine speed. Max output for bilge pump is when the engine is operating above 2200 rpms.
5. Water is still coming in the vehicle at the same rate and vehicle went from 3 bilge pumps to 2. Incoming water is now greater than what is being pumped out.
6. Once water level reaches the deck plates, water level in the engine compartment is now rising. Generator belt starts to sling water up and out of engine panel and also onto the generator. Generator now fails.
7. Vehicle now only has batteries for electrical source. Electric bilge pumps will run at a degraded status until power is depleted from batteries.

ENCLOSURE (45)

Subj: SINKING OF VEHICLE 523519 ON 30 JULY 2020

8. Vehicle hatches should now be open and crew should be evacuating vehicle. Water would be able to enter hatch openings as waves break against/on vehicle.
9. Vehicle now has no way to pump out incoming water. It is only a matter of time before vehicle sinks.

note: The damage to the inside of ramp and both pontoons was likely caused by overpressure while the vehicle was sinking. The missing piece of metal out of the starboard pontoon was likely a past repair. No documentation of repairs could be found from maintenance records.

Respectively Submitted.

(b)(6), (b)(7)(c)

ENCLOSURE (45)

APPENDIX E LIMITED TECHNICAL INSPECTION

E-1. AAV7A1 LIMITED TECHNICAL INSPECTION.

Table E-1. AAV7A1 Limited Technical Inspection

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION	
MODEL (CIRCLE ONE)	REFERENCES
<div style="border: 1px solid black; border-radius: 50%; padding: 2px; display: inline-block;">AAVP7A1</div> AAVC7A1 AAVR7A1	TM 07007/07267/07268-25/1 TM 07267C-25/1 TM 07268C-25/1 <div style="float: right;">TM 07007/07267/07268-25/2</div>
TAC NO. <u>3-15-05</u>	MILES <u>1531.2</u>
U.S.M.C. NO. <u>523519</u>	HOURS <u>329.92</u>
HULL NO. <u>Ram-Y-009</u>	
ENGINE NO. <u>37222121</u>	
TRANSMISSION NO. <u>2004-225</u>	
INSPECTOR'S NAME/RANK/SIGNATURE	DATE INSPECTED
(b)(6), (b)(7)(c)	<u>8-10-2020</u>

NOTE: The following inspection sheets are divided into seven columns. The inspector will place a check in the column which best describes the condition of the item being inspected. For those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column.

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Outside of Vehicle (Forward and Port)								
1. Hull Forward End. Check for damage and bare metal.	X							
2. Towing Eyes. (Para. 8-33)								
a. Port.	X							
b. Starboard.	X							
3. Headlights. (Para. 11-32)								
a. Port.					X			Three wiring harness plug inside Bow
b. Starboard.	X							
c. Headlight Guards.	X							
4. Bow Plane. (Para. 10-14)								
a. Hinges and Mounting Hardware. (Para. 10-17)	X							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
b. Bow Plane. (Para. 10-17)	X							missing paint in areas
c. Hydraulic Tubes and Fittings. (Para. 10-16)	X							
d. Pivot Actuator. (Para. 10-18)	X							
5. Hull Port Side. Check for damage and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 17-26a)	X							
b. Steps. (Para. 17-29)	X							
c. Slope Rack Kit (SRK). (Para. 8-49)						X		Rack bent/broke
d. Stowage Provisions. (Para. 17-37)	X							
e. Fairings. (Para. 17-28)	X							
f. Standoff Brackets. (Para. 17-27)	X	X						missing 12 bolts (auman to standoff)
g. Hull Bosses. (Para. 17-36)	X							
6. Port Track Shroud. Check for loose mounting hardware and damage. (Para. 17-28)								missing 6 out of 12 bolts
7. Port Final Drive. (Para. 7-18)								
a. Outer Housing.	X							
b. Bolts.	X							
8. Port Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)								
9. Port Sprockets. (Para. 7-16)								
a. Inner.	X							
b. Outer.	X							
10. Port Track. (Para. 7-7) Use track wear gauge to measure wear. Mark each unserviceable track shoe.								inner pads 50% missing
a. Track Shoes.						X		
b. Track Pads.						X		
c. Track Pins.	X							
d. Track Wear.						X		
e. Track Adjustment.				X				

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
11. Port Road Wheels and Hubs. (Para. 7-12) Circle those numbers that are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 <u>4</u> 5 6	X							# 4 outside wheel chunking
b. Road Wheel Wear Rings. 1 2 3 4 5 6								NA
c. Hub Oil Leaks. 1 2 3 4 5 6	X							
d. Hub Oil Level. 1 2 3 4 5 6	X							
e. Mounting Hardware. 1 2 3 4 5 6	X							
12. Port Support Arms. (Para. 7-13) Circle those numbers that are unserviceable. 1 2 3 4 5 6	X							
13. Port Torsion Bars. (Para. 7-13) Circle those numbers that are unserviceable.								
a. Torsion Bars. 1 2 3 4 5 6	X							
b. Retaining Screws. 1 2 3 4 5 6	X							
14. Port Shock Absorbers. (Para. 7-11)								
a. No. 1 Shock.		X						
b. No. 2 Shock.		X						
c. No. 3 Shock.		X						
d. No. 4 Shock.	X							
e. Mounting Hardware.		X						on #1, 2, 3 shocks
15. Port Front Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	X							
b. Hub Oil Leaks.	X							
c. Hub Oil Level.			X		X			contaminated
d. Mounting Hardware.	X							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
16. Port Dual Support Roller. (Para. 7-15)								
a. Support Wheel Cracks/Damage.	X							
b. Hub Oil Leaks.	X							
c. Hub Oil Level.	X							
d. Mounting Hardware.	X							
17. Port Rear Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	X							
b. Hub Oil Leaks.	X							
c. Hub Oil Level.	X							
d. Mounting Hardware.	X							
18. Port Slap Guard. (Para. 7-10)								
Check for wear and loose mounting hardware.	X							
19. Port Idler Wheel and Hub. (Para. 7-9)								
a. Idler.	X							
b. Outer Wheel.	X							
c. Inner Wheel.	X							
d. Mounting Hardware.	X							
e. Oil Level.			X		X			oil contaminated
20. Port Track Tension Adjuster. (Para. 7-8)								
a. Track Adjuster Support.	X							
b. Track Adjuster.	X							
c. Bleeder Valve.	X							
d. Grease Fitting.	X							
21. Port Anode. (Para. 8-54) Check for tightness of mounting screw. Make sure there is no paint on anode.	X							
22. Port Midships Bearing. (Para. 9-18) Check for signs of leaks.	X							
23. Drive Shaft. (Para. 9-17) Check for signs of damage.	X							
24. Footman Loop. (Para. 8-50) Check for weld cracks.	X							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
25. Port Handrails. (Table 3-1) Check for weld cracks.	X							
26. Port Cargo Hatch Supports. (Para. 8-26)	X							
a. Forward Support.	X							
b. Aft Support.	X							
27. Fuel Tank Pressure Relief Valve (Para. 12-18) and Outlet Cover (Para. 12-12). Check cover and mounting screws for damage. Check relief opens.	X							
28. Check fuel filter cap. (Para. 12-9)						X		rusted
29. Stowage Brackets. Check for weld cracks.	X							
30. Bilge Pump Outlets.								
a. Hydraulic Pump Outlet. (Para. 8-47)	X							oil residue on inside of cover
b. Electric Pump Outlet. (Para. 8-46)	X							oil residue on inside of cover
31. Personnel Heater Exhaust Outlet. (Para. 14-14)	X							
a. Outlet Cap.	X							
b. Outlet Adapter.	X							
32. Exterior Fire Extinguisher Pull Handle. (Para. 15-13)								
a. Handle.	X							
b. Wire Seal.						X		broken
33. External Fuel Tank Drain. Check plug for tightness and leaks. (Para. 12-18)	X							
34. Port Deflector. (Para. 9-21) Check for warping and cracks. Check mounting hardware for tightness and damage.	X							
35. Port Reverse Flow Duct. Check for damage and tight mounting hardware. (Para. 9-20)	X							
36. Port Propulsion Unit. (Para. 9-20) Check unit for damage and mounting hardware for tightness. Rotate drive shaft to check for free movement of impeller.					X			Can not rotate

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
II. Outside of Vehicle (Aft and Starboard)								
1. Taillights.								
a. Port Taillight. (Para. 11-53)	X							
b. Starboard Taillight. (Para. 11-59)	X				X	X		lens Broke
c. Taillight Guards.	X							
2. Horn. (Para. 11-54) Check for loose mounting hardware, corrosion, and proper electrical connections.	X							
3. Tow Cable Stowage Brackets. (Para. 8-27) Check for cracked or bent brackets.	X							
4. Towing Pintle. (Para. 8-41) Check for loose mounting hardware. Check pintle for free rotation and proper quick-release operation.	X							
5. Ramp Plugs. (Para. 8-27) Check for tightness.	X							
6. Ramp Hinges and Towing Eyes. (Para. 8-27) Check mounting hardware for tightness.	X							
7. Vision Block and Guard. (Para. 8-30)								
a. Vision Block Guard.	X							
b. Vision Block.	X							
8. Personnel Hatch. (Para. 8-31)								
a. Personnel Hatch Handle (inner and outer).					X	X		handle thru hole loose, handle needs adj.
b. Personnel Hatch Seal.	X							
c. Hook and Damper.	X							
d. Mounting Hardware.	X							
9. Starboard Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage. (Para. 9-20)								
10. Trailer Receptacle.								
a. Cover.	X							
b. Retainer Chain.	X							
11. Starboard Reverse Flow Duct. Check for damage and tight mounting hardware. (Para. 9-20)			X					upper bolt loose.

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
12. Starboard Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate drive shaft to check for free movement of impeller. (Para. 9-20)	X							
13. Drive Shaft. Check for signs of damage.	X							
14. Footman Loop. Check for weld cracks.	X							
15. Starboard Idler Wheel and Hub. (Para. 7-9)								
a. Idler.	X							
b. Outer Wheel.	X							
c. Inner Wheel.	X							
d. Mounting Hardware.	X							
e. Oil Level.	X							
16. Starboard Track Tension Adjuster. (Para. 7-8)								
a. Track Adjuster Support.	X							
b. Track Adjuster.	X							
c. Bleeder Valve.	X							
d. Grease Fitting.	X							
17. Starboard Anode. Check for tightness of mounting screw. Make sure there is no paint on anode. (Para. 8-54)	X							
18. Starboard Midships Bearing. Check for signs of leaks. (Para. 9-18)	X							
19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable. (Para. 7-12)	X							
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	X							
b. Road Wheel Wear Rings. 1 2 3 4 5 6								NA
c. Hub Oil Leaks. 1 2 3 4 5 6	X							
d. Hub Oil Level.	X							
e. Mounting Hardware. 1 2 3 4 5 6	X							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
20. Starboard Support Arms. Circle those numbers that are unserviceable.								
1 2 3 4 5 6	X							
21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers that are unserviceable.								
1 2 3 4 5 6	X							
22. Starboard Shock Absorbers. (Para. 7-11)								
a. No. 1 Shock.	X							
b. No. 2 Shock.	X							
c. No. 3 Shock.	X							
d. No. 4 Shock.	X							
e. Mounting Hardware.	X							
23. Starboard Front Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	X							
b. Hub Oil Leaks.	X							
c. Hub Oil Level.	X							
d. Mounting Hardware.	X							
24. Starboard Dual Support Roller. (Para. 7-15)								
a. Support Wheel Cracks/Damage.	X							
b. Hub Oil Leaks.	X							
c. Hub Oil Level.	X							
d. Mounting Hardware.	X							
25. Starboard Rear Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	X							
b. Hub Oil Leaks.	X							
c. Hub Oil Level.	X							
d. Mounting Hardware.	X							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
26. Starboard Slap Guard. Check for wear and loose mounting hardware. (Para. 7-10)	X							
27. Starboard Track. Use track wear gauge to measure wear. Mark each unserviceable track shoe. (Para. 7-7)								replace tracks
a. Track Shoes.						X		
b. Track Pads.						X		
c. Track Pins.						X		
d. Track Wear.						X		
e. Track Adjustment.				X				
28. Starboard Sprocket Rings. (Para. 7-16)								
a. Inner.	X							
b. Outer.	X							
29. Starboard Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)								
30. Starboard Final Drive. (Para. 7-18)								
a. Outer Housing.					X			oil leaking out of output shaft
b. Bolts.	X							
31. Starboard Side Pontoon. Remove drain plug and check for water. (Para. 8-44)					X			12" x 12" square section missing from pontoon
32. Starboard Track Shroud. Check for loose mounting hardware and damage. (Para. 8-34)					X			7 out of 12 bolts missing
33. Starboard Bilge Pump Outlets. (Para. 8-46)								
a. Hydraulic Pump Outlet.					X			dry on inside of cover
b. Electric Pump Outlet.	X							oil on inside cover
34. Stowage Brackets. Check for weld cracks.	X							
35. Heater Exhaust Outlet. Check for loose mounting hardware and damage.	X							
36. Starboard Cargo Hatch Supports. (Para. 8-26)	X							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
a. Forward Support.	X							
b. Aft Support.	X							
c. Hand Rails.	X							
37. Footman Loop. Check for weld cracks. (Para. 8-50)	X							
38. Starboard Side Hull. Check for damaged and bare metal.	X							
a. Armor Piercing Protection Plates Kit (APK). (Para. 17-26a)					X			near plate missing bolt + bent. missing numerous mounting bolts
b. Steps. (Para. 17-29)	X							
c. Slope Rack Kit (SRK). (Para. 8-49)	X							
d. Stowage Provisions. (Para. 17-37)	X							
e. Fairings. (Para. 17-28)					X			Front + Rear missing bolts
f. Standoff Brackets. (Para. 17-27)	X							
g. Hull Bosses. (Para. 17-36)	X							
III. Bottom of Vehicle								
1. Hull. Check bottom of vehicle for damage.					X			# 2, 3, 4, 5 Starb support plates cracked # 2 port support plate cracked
2. Drain Plugs. Check for missing, tight, or damaged plugs.								
a. Hull. (Para. 8-42)	X							
b. Ramp. (Para. 8-27)	X							
c. Contact Cooler. (Para. 8-43)	X							
IV. Outside of Vehicle (Topside)								
1. Hand Rail (forward). Check for weld cracks or other damage.	X							
2. Mooring Cleats/Lifting Fixtures. Check for damage. (Para. 8-34)								
a. Forward (port and starboard).	X							
b. Aft (port and starboard).	X							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
3. Intake Grille.								
NOTE								
Make sure intake grille is secured properly in raised position. (Para. 8-13)								
a. Screen.	X							
b. Brace Rod.	X							
c. Cam Lock Handles/Stop Screws.					X	X		8" b side missing stop screws part handle needs adj
d. Torsion Bar Assembly. (Para. 8-17)	X							
e. Mounting Hardware.	X							
f. Seal.	X							
4. Ventilator-Aspirator. Check that valve works properly and inlet screen is clean and not damaged. (Para. 8-18)			X					sticking / frozen
5. Radiator Cover and Cap. Check ballistic cover for damage and radiator cap for proper sealing. (Para. 8-19)	X							
6. Center Plate. Check sealing surface for tight fit and retaining screws for tightness.					X			1 bolt not tightened
7. Exhaust Grille. (Para. 8-14)								
NOTE								
Make sure that exhaust grille is secured properly in raised position.								
a. Screen.	X							
b. Seal.	X							did not check
c. Brace Rod.								not installed inside vehicle
d. Lugs (Dogs).	X							
e. Mounting Hardware.	X							
8. Plenum Indicators. (Para. 8-16)								
a. Intake.					X	X		bent
b. Exhaust.	X							
9. Searchlight Mount and Receptacle. Check for damage.		X						missing cap & cheerin
10. Driver's Hatch. (Para. 8-21)								

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
a. Cover and Hinges.	X							
b. Torsion Bar.	X							
c. Latches (open and closed).				X				Hatch pops open when closed
d. Seals and Pads.						X		
e. Vision Blocks.	X							
f. DVE Adapter Assembly.		X						missing hatch plug for DVE
11. Periscope and Support. Check periscope for breaks and chips and support for damage. (Para. 8-24)								
12. Commander's Hatch. (Para. 8-23)								
a. Cover and Hinges.	X							
b. Torsion Bar.	X							
c. Latches (open and closed).				X				
d. Seals and Pads.						X		Hatch ring pad needs replaced
e. Vision Blocks.	X							
13. External Exhaust system. Check the external muffler, muffler guard, for damage and operation. (TM 07007/07267/07268-25/2)								
a. Muffler.	X							
b. Guard.					X	X		damaged
c. Pipes/Clamp.	X							
14. Ventilation Exhaust Outlet. Check ballistic cover for damage and tight retaining screws. Check screen for damage.	X							
15. Overhead Protection Kit (OPK).								
a. OPK Tiles.	X							missing bolts
b. Torsion Bar Assist Mechanism (TBAM) Cover.	X							
c. TBAM.	X							
d. Bosses.	X							
16. Cargo Hatches.								
a. Covers and Hinges.	X							
b. Torsion Bar.	X							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
c. Latches (open and closed).	X							
d. Seals.						X		Starb Seal
17. Antenna Mounts.						X		
a. Receiving Mount.	X							
b. Port Sending Mount.	X							
c. Starboard Sending Mount.	X							
d. PLRS Antenna Mount.	X							
e. DACT Antenna Mount.	X							
18. Sea Tow Quick-Release. Check assembly for damage and proper operation.				X	X			handle Bent
V. Engine Compartment (Forward)								
1. Forward Bulkhead, Bow Pod Access Cover, and Bow Pod.								4 cases of MREs stored in Bow, Access cover bolts are missing.
NOTE Make sure intake grille is properly secured in raised position.					X			
a. Bow Plane Velocity Fuse Valves.	X							
b. Bow Pod Access Cover.	X							
c. TACNAV Sensor.	X							
2. Intake Plenum Actuating Cylinder.								
a. Cylinder.	X							
b. Hydraulic Hoses.	X							
3. Cam Roller Lock. Check condition of each latch roller.	X							
4. Cooling Fan.								Up mounting nuts
a. Guard.	X							
b. Shroud.	X							
c. Fan.	X							
d. Bearings.	X							
e. Belt Adjustment.	X							
f. Seals.				X				Top seal not seating to top plate
g. Fan Cartridge Bearing.	X							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
h. Drain Tube.	X							
5. Surge Tank.								
a. Tank.	X							
b. Valve.	X							
c. Hose and Tubes.	X							
d. Mounting Hardware.	X							
6. Crew Ventilation.								
a. Ducts, Clamps, and Hoses.	X							
b. Drain Tube.	X							
7. Control Linkages.								
a. Brake Linkage.	X							
b. Steering Linkage.	X							
c. Throttle Linkage.	X							
d. Brake Flood Control Valve Linkage.								
NOTE Make sure flood valve spindle moves freely.	X							
e. Engine Compartment Exhaust Fan Linkage.	X							
8. Transmission Mounts. Check mounts for loose mounting hardware. Check transmission guide and guide rollers for damage.	X							
9. Electrical Wiring and Connections.								
a. Bulk Head Connectors.	X							
b. Power Plant Wiring.	X							
c. Crew Vent Fan.	X							
d. Electrical Bilge Pump.	X							
10. Hydrostatic Steering Disconnect Lever. Check lever for correct operation, damage, and wear. Check for leaks.	X							
11. Port Final Drive.								
a. Oil/Oil Level.			X					oil contaminated

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
b. Oil Leaks/Seals.	X							
c. Mounting Hardware.	X							
d. Speedometer Adapter/Cable.	X							
12. Port U-Joint. Check for wear, tight screws, and proper safety wiring.	X							
13. Port Hydraulic Bilge Pump. Check for oil leaks, loose mounting hardware, damaged screen, and debris.	X							
14. Bilge Pump Bypass Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connections.	X							
15. Plenum Solenoid Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connection.	X							
16. Bow Plane Hydraulic tubes. Hoses and Fittings. Check for leaks, loose fittings and loose mounting hardware.	X							
17. Fuel Manifold. Check for fuel leaks and loose mounting hardware.	X							
18. Forward Engine Compartment Fire Extinguisher Discharge Nozzle. Check for damage and debris.	X							
19. Port Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper lock wire.	X							
20. Port right-angle drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	X							
21. Starboard Final Drive.								
a. Oil/Oil Level.		X						oil contaminated
b. Oil Leaks/Seals.				X				output shaft seal leaking
c. Mounting Hardware.	X							
22. Starboard U-Joint. Check for wear, tight screws, and proper safety wiring.	X							
23. Starboard Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper lock wire.	X				X			Missing lock wire on bolts.

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
24. Starboard Electrical Bilge Pump. Check screen for debris and damage. Check mounting hardware for tightness.					X			mounting mount clamp loose
25. Precleaner. Check cleaner for damage, loose mounting hardware, and loose clamps. Check screen for damage and debris.					X			missing clamp for tube hold down.
26. Crew Ventilation Fan. Check mounting hardware for looseness. Check ducts and clamps for damage and tightness.	X							
27. Starboard right-angle drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	X				X			oil contaminated
28. Starboard Right-Angle Drive Shaft. Check condition of shaft coupling for damage. Check coupling bolts for tightness and proper lock wire.	X							
29. Fan Drive Shaft. Check shaft and coupling for damage or wear. Check lock wire for damage.	X							
30. Fuel Filter.								
a. Fuel Leaks.	X							
b. Drain Cock/Contamination.	X							
c. Electrical Leads/Transducer.	X							
d. Mounting Hardware/Air Valve.	X							
31. Power Takeoff Unit.								
a. Oil Leaks.			X					oil all over Power Plant
b. Mounting Hardware.				X				double nutted on mounting studs
c. Electrical leads/Connections.	X							
32. Starter. Check that starter is mounted properly. Check electrical leads and connections for damage and proper connections.	X							
33. Transmission Oil Cooler. Check for oil and water leaks. Check electrical leads and connections for damage. Check oil lines, hoses, and clamps for tightness.	X							
34. Exhaust Manifold (starboard side). Check for cracks, holes, and corrosion. Check mounting hardware for tightness.	X							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
35. Transmission. Check for overall cleanliness and damage.								
a. Leaks.			X					oil all over power plant
b. Torque converter to engine mounting screw for tightness.	X							
c. Range selector valve for leaks and lock wire.	X							
d. Oil Leaks.			X					oil all over power plant
e. Left and right brake and steer sections for leaks and loose mounting bolts.	X							
f. Check brakes for proper adjustment.	X							
g. Check transmission drain line for leaks, damage, and loose drain plug.				X				drain plug was loose
VI. Engine Compartment (Aft)								
1. Exhaust Plenum. Check actuating cylinder and oil lines for leaks. Check condition of plenum seal.								Plenum not lifted N/A
2. Components Bolted on to the Engine. Check for tight mounting hardware, proper electrical connections, damaged hoses and electrical leads, and leaks.								
a. Turbocharger.	X							
b. PT Pump.	X							
c. Exhaust Manifold (Port Side).	X							
d. Engine Oil Cooler.	X							
e. Engine Oil Filter.	X							
f. Intake Manifold.	X							
g. Smoke Generation Components.	X							
h. Cold-Start Components.	X							
i. Crankcase Breathers.	X							
3. Transmission Oil Filter.	X							
a. Mounting Hardware.	X							
b. Leaks.	X							
c. Check Electrical Connections.	X							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
4. Engine Oil Level. Check for correct level and signs of contamination. Check dipstick for damage.					X			Engine full of water
5. Transmission Oil Level. Check for correct level and signs of contamination. Check fill tube and dipstick for damage.					X			no oil noted on dipstick.
6. Tachometer Drive Shaft. Check for adapter and cable damage.	X							
7. Radiator. Check for radiator damage. Check for water leaks on radiator and coolant tubes.	X							
8. Exhaust System. Check condition of insulation. Check for loose mounting hardware and damaged scavenging system check valve and for leaks.	X							
9. Engine Compartment Exhaust Duct. Check for cracks or other damage. Check mounting hardware and clamps for tightness. Check tubes for proper mounting.	X							
10. Engine. Check overall condition of engine for cleanliness and fuel, coolant, and oil leaks.					X			
11. Generator.								
a. Bracket and Hardware.	X							
b. Pulley and Belt.	X							
c. Adjustment.	X							
d. Voltage Regulator	X							
12. Water Pump. Check for leaks.								
a. Pump.	X							
b. Hoses and Tubes.	X							
c. Belt and Adjustment.				X				belt loose
13. Fire Extinguisher Discharge Nozzle. Check for damage, debris, and condition of lock wire.	X							
14. Engine Oil Heat Exchanger. Check mounting hardware for tightness. Check for oil leaks. Check electrical leads for damage and tight connections.	X							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
15. Cold-Start Disconnect Lever. Check for proper operation, damage, and corrosion.	X							
16. Hydraulic Reservoir.								
a. Oil Leaks.	X							
b. Mounting Hardware.	X							
c. Oil Level.	X							
d. Dipstick for damage.	X							
VII. Troop Compartment								
NOTE								
Before inspecting troop compartment, open cargo hatches. Sound horn and lower ramp.								did not do vehicle had no power to raise ramp
1. Engine Compartment Access Covers (aft). Check all thumbscrews and clamps for damage and operation. Check covers for correct mating and damage.								
a. Aft Upper.					X			Bent
b. Aft Center.	X							
c. Aft Lower.	X							
d. Port Upper.	X							
e. Port Lower.	X							
f. Smoke Generation.	X							
2. Smoke Generation Fuel Control Valve. Check to see if valve operates freely. Check for any damaged components and leaks.	X							
3. Engine Compartment Fire Extinguisher.								
a. Bottle and Tag.	X	X						No Tag on bottle
b. Control Valve.	X							
c. Clamps.	X							
4. Troop Ventilation Outlets. Check for free movement and damaged louvers.	X							
5. Coolant Bypass Tube. Check to see if tube is mounted properly in retaining brackets.	X							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Air Cleaner Compartment.								
a. Access Door.	X							
b. Retaining Brackets.					X			missing rear retaining Hardware
c. Element.						X		
d. Compartment.			X					Needs to be cleaned
7. Right-Angle Drive Access Cover. Rotate weapon station to gain access to cover. Check cover for proper mating and damage.	X							
8. Starboard Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	X							
9. Starboard Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper lock wire.	X							
10. Fuel Tank Drains. Check both valves for proper operation. Check fuel lines and fittings for leaks. Check manual shutoff valves to make sure the handle rotates freely.	X							
a. Internal Fuel Tank Drain.	X							
b. External Fuel Tank Drain.	X							
c. Fuel Lines and Fittings.	X							
d. Manual Shutoff Valve.	X							
11. Fuel Tank.								FWD return line loose.
a. Electrical Leads.	X							
b. Leaks.	X							
c. Retaining Straps.	X							
d. Breather Cap.	X							
12. Troop Seats.								
a. Hinges.					X			
b. Supports.	X							
c. Seat Pans.	X							
d. Cushions.						X		
e. Safety Belts/Straps.	X							
f. Adjusting Rods.	X							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
13. Interior Stowage.								
a. MG Cleaning Rod Bracket.	X							
b. Rifle Brackets.	X							
c. Water Can Supports.	X							
d. Seat Stowage Supports.					X			Support Tabs need webbing
e. DVE Container.	X							
f. Portable Fire Extinguisher Bracket.	X							
g. Pamphlet Stowage Rack.			X					full of water
h. Ammo Box Bracket.	X							
i. Hand Oiler Bracket.	X							
j. Tool Box Stowage Support.	X							
14. Power Distribution Box. Check to see if box is securely mounted. Check all electrical connections for tightness. Check cover for tight screws. Check slave output power switch for damage.			X					cover was removed. internal components were highly corroded.
15. Batteries.								
a. Battery Box Cover.	X							
b. Hold-Downs.	X							
c. Cables and Terminals.	X							
d. Battery and Terminal Posts.			X					
e. Battery Box Drains.	X							
f. Battery Instruction Plate.	X							
16. Radio Guards. Check guards for damage and loose or missing mounting hardware.	X							
17. Deflector Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.			X		X			missing mounting hardware
a. Port	X							
b. Starboard.	X							
18. Water Steer System Components.								
a. Water-Jet Deflector Position Sensing Module (port and starboard).				X				Starb module loose.

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
b. Water-Jet Deflector Servo Module (port and starboard).	X							
c. Water-Jet Deflector Solenoid Module (port and starboard).					X	X		highly corroded
d. Actuator Cylinders Port and Starboard.	X							
e. Actuator Bracket Port and Starboard.	X							
19. AFSSS Electrical Components.								
a. Sensors/Control Box.			X					rear sensor unhooked
b. Cables.	X							
c. Test AFSSS using the test set (Item 4, Table 11-1) (Para. 11-70)								No vehicle power
20. Dome Lights. Check mounting hardware for tightness. Check for broken or cracked lens and knobs. With master switch ON, check lights for proper operation.					X			Tc dome light lens broke No vehicle power to test.
21. Aft Slave Receptacle. Check cover and chain for damage. Check insert for corrosion and damage. Check electrical lead for damage and loose connections. Check mounting hardware for tightness.					X			missing / mounting bolt
22. Troop Ventilation Outlets. Check for free movement and damaged louvers.	X							
23. Ramp Lock Linkage. Check to see that linkage does not bind. Check for bent or warped linkage rods.				X				Lock is undone, dog still latched
24. Ramp. With ramp lowered, check ramp seal for breaks and spongy condition.								N/A inside ramp, strb. side bent inward
a. Ramp Seal. Check mating with hull in closed position.								could not check at this time
b. Vision Block Cover.	X							
c. Skid Bars	X							
d. Quick-Release (Visual Only).	X							
e. Tow Pintle Release.	X							
25. Deck Plates.								
a. Deck Plates (port and starboard).	X							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
b. Center Deck Plate.	X							
c. Contact Cooler Bleeder Valve Access Cover.	X							
d. Bilge Pump Access Cover (port and starboard).	X							
e. Tie-Down Rings.	X							
<p align="center">NOTE</p> <p>Remove troop compartment deck plates before continuing.</p>								
26. Contact Cooler. Check that bleeder valve is not frozen. Check for signs of leaks.	X							
27. Torsion Bars. Check torsion bars for damage.	X							
28. Ramp Cylinder and Cable.	X							
29. Hydraulic Bilge Pump.	X							
a. Bilge Pump.	X							
b. Outlet Tube.	X							
30. Electric Bilge Pump.								
a. Electric Pump.	X							
b. Outlet Tube.	X							
31. Bilges. Check for cleanliness and obvious signs of damage.								
a. Brackets and Mounting Hardware.	X							
b. Discharge Tubs and Nozzles.	X							
32. Fire Extinguisher (17-lb).								
a. Mounting Hardware.	X							
b. Discharge Tub and Seal.	X							
c. Tag Date. _____			X					no tag
d. Seal.	X							
33. Personnel Heater.								
a. Mounts.	X							
b. Exhaust System and Cover.	X							
c. Electrical Wiring and Switches.	X							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
d. Fuel System.	X							
e. Heater Ducts.	X							
34. Port Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	X							
35. Port Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper lock wire.	X							
36. Radio Mounts.								
a. Check Mounting Hardware.	X							
b. Check Radio Mounts.	X							
c. Check Radio Cables.	X							
VIII. Driver's and Commander's Station								
1. Access Covers.								
a. Hydrostatic Steer Disconnect Lever.	X							
b. Final Drive U-Joint.	X							
c. Hydraulic Reservoir.	X							
2. Flapper Valve. Check spring tension flapper. Check mounting screws for tightness and damage to flapper.					X			no spring tension
3. Fire Extinguisher (7-lb). Check mounting bracket and hardware for tightness. Check tag for date bottle was last weighed. Check wire seal on control head.			X					no tag
a. Bracket and Mounting Hardware.	X							
b. Tag/Date.		X			X			
c. Wire Seal.						X		wire Broken
4. Ramp Lock Handle. Check handle and lock for damage and proper operation.				X				not locked
5. Ramp Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	X							
6. Fire Extinguisher Discharge Handle. Check handle for damage and unbroken wire seal.	X							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
7. Power Train Switch. Move lever and check for binding. Check bail for damage.								in on Position
8. Mode Selector Switch. Check for missing or damaged toggle switch.								in water jets
9. Handle Throttle. Move throttle and check for proper operation. Check linkage and cover for damage.								at Idle
10. Gear Selector. Check console for loose mounting hardware for damage. Check movement of selector through all gear range.								In 4th Gear
11. Air Cleaner Restrictor Indicator. Check for proper mounting to bulkhead. Check indicator for damage.						X		
12. Auxiliary Instrument Panel. Check panel for loose mounting hardware. Check that gauges are securely mounted in panel, and that hose connections are tight.						X		gauges have water in them
13. Accelerator Pedal.								
a. Mounting Hardware/Brackets.	X							
b. Pedal and Pedal Stop Screw.	X							
c. Water Drive Switch.	X							
14. Brake Pedal. Apply and release brakes to check binding.	X							
15. Parking Brake Handle. Check for proper operation. Make sure that parking brake holds and releases properly.	X							
16. Steering Wheel. Check wheel for damage. Check operation of wheel tilt. Check for binding linkage. Check steering wheel sensing module for loose mounting hardware or damaged wiring.	X							
a. Steering Wheel.	X							
b. Steering Wheel Sensing Module.	X							
17. Indicator Panel. Check mounting hardware and grommets for tightness and damage. Check for loose or damaged switches, lights, and buttons.								
a. Master Switch.	X							in the on position

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
b. Lamp Test/Warning Cancel Switch.	X							
c. Horn Button.	X							
d. Panel Lights Brt/Dim Switch.	X							
e. Cold-Start Switch.	X							
f. Starter Button.	X							
g. Light Switch.	X							
h. TACNAV Indicator.								N/A
i. Tachometer.						X		water inside Gauge
j. Speedometer.						X		" " "
k. Smoke Generation Indicator Light.	X							
l. Smoke Generation Switch.	X							
m. Forward Electric Bilge Pump Switch.	X							on position
n. Aft Electric Bilge Pump Switch.	X							on position
o. Aft Electric Bilge Pump Indicator Light.	X							
p. Forward Electric Bilge Pump Indicator Light.	X							
q. Aft Hydraulic Bilge Pump Indicator Light.	X							
r. Forward Hydraulic Bilge Pump Indicator Light.						X		
s. Ventilation Switch.	X							on position
18. Driver's Display Unit. Check for cracked glass and moisture. Check that unit is securely mounted in indicator panel.								
NOTE Bar scales and warning lights will be checked during the operational portion of preinduction.	X							
19. Bow Plane Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	X							

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
20. Vent Air Outlets. Check driver's and commander's outlets for breaks and cracks. Check to see if outlet rotates freely. Check mounting hardware for tightness.	X							
a. Driver's Outlet.	X							
b. Commander's Outlet.	X							
21. Vent Air Hoses, Tubes, and Duct. Check for loose clamps and mounting hardware. Check for damaged hoses, tubes, and duct.	X							
22. Bilge Outlet Tube. Check tube for damage, hoses for cracks, and clamps for tightness.	X							
23. Instrument Distribution Box. Check that box is securely mounted, and that cover screws are tight. Check all wiring harness connectors for tightness.					X			cover missing 2 screws
24. Forward Slave Receptacle on Instrument Distribution Box. Check cover and chain for damage. Check receptacle for corrosion and damage.					X			cover & chain (rope) missing
25. Searchlight Switch. Check for damage and operation.	X							
26. Ventilation Air Outlet Valve. Check for loose mounting hardware and damaged cable and handle with ball. Open and close outlet and check for binding linkage.	X							closed position
27. Data Plates. Check for damage.	X							
28. Manual Fuel Shutoff Handle. Check shaft for damage and grommets for wear. Rotate handle to check for free operation.					X			on position shutoff frozen
29. Driver's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.			X					
30. Troop Commander's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.			X					

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
31. Interior Decals and Instruction Plates. Check to see that they are readable.	X							
32. Fire Extinguishers (MFSS and AFSSS).								
NOTE At this time, all fire-suppression system bottles are to be pulled and weighed.								
a. Mounting Hardware.	X							
b. Discharge Tube and Seal.	X							
c. Tag Date.		X						
d. Seal.						X		bad Seal on Rear MFSS bottle
33. Drive Shaft Guards. Check guards for damage and mounting hardware for tightness.	X							
IX. Equipment Operation								
1. Start vehicle, check operation of the following:								could not start vehicle
a. Master Switch.								
b. Horn.								
c. Fuel Level Indicator.								
d. Battery Generator Indicator.								
e. Electric Bilge Pumps (Forward and Aft).								
f. Panel Lights (Br/Dim).								
g. Display Panel Warning Lights.								
h. Vent Switch Low Position.								(b)(6), (b)(7)(c)
2. Perform Diagnostic Test Equipment checks IAW TM 07007/07267/07268-25/1 (see worksheet at the end of this Appendix).								
3. Vehicle Stall Check. With brakes locked, and gear selector in 4th gear, accelerate fully and check the following:								
a. Brakes.								
b. Transmission.								

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
c. Engine RPM.								
d. TACNAV Indicator. Check that system powers and display works.								
4. Lights. Check that lights work properly.								
a. Light Switch.								
b. Service Drive.								
c. Dimmer Switch.								
d. Blackout Markers.								
e. Stop Light.								
f. Park.								
g. Searchlight.								
h. Interior Dome Lights.								
5. Driver's Viewer Enhancer that power system works.								
6. Lamp Test/Warning Canc. Check audio signal with prop helmet.								
(b)(3), (b)(6), (b)(7)(c)								
X. Functional Road Test								
1. Steering. Check operation								
2. Gear Ranges. Check for that lockup works properly.								
3. Smoke Generation. Check for correct operation.								
4. Brakes. Check to see if brakes pull to one side or the other.								
5. Speedometer. Check for correct operation.								
6. Noises. Check for any unusual noises.								
XI. Water Systems Test								
1. Plenums. Check that plenums close completely. Fan shuts off. (Para. 8-13)								
2. Check if hydraulic bilge pumps operation.								
3. Check if electric bilge pumps operate.								
4. Check that jet drive activates at 1000 to 1200 RPM.								

Table E-1. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	adjust	repair	replace	modify	Remarks MUST be included if unserviceable.
5. Bow Plane Operation.								
a. Control Valve. Check for proper operation and leaks.				(b)(6), (b)(7)(c)				
b. Bow Plane. Check that it fully extends and retracts.								
c. Pivot Actuator. Check for leaks, unusual noise and smooth operation.								

NOTE

See TM 07007/07267/07268-25/1 for LTI of UGWS-Unique Items.

See TM 07267C-25/1 for LTI of AAVR7A1-Unique Items.

See TM 07268C-25/1 for LTI of AAVC7A1-Unique Items.

Table E-2. Diagnostic Test Equipment Worksheet

1. ORGANIZATION			2. NOMENCLATURE					
3. REGISTRATION, SERIAL, NSN		4A. MILES	4B. HOURS		5. DATE		6. TYPE TEST	
7.		APPLICABLE REFERENCES						
TM NUMBER		TM DATE	TM NUMBER		TM DATE			
INSTRUCTIONS: ALL INSPECTIONS AND EQUIPMENT CONDITIONS RECORDED ON THIS FORM HAVE BEEN DETERMINED IAW DIAGNOSTIC PROCEDURES AND STANDARDS IN THE TM CITED HERE ON.								
8A. SIGNATURE (PERSONS(S) PERFORMING TEST)			8B. TIME		9A. SIGNATURE (MAINT. SUPERVISOR)		9B. TIME	10. MAN-HOURS REQUIRED
11. TEST TYPE		12. TEST NO	13. LIMITS			14. UNITS	15. TEST RESULTS	16. CORRECTIVE ACTION
			MIN	NORMAL	MAX			
DCA3	ENGINE COOLANT TEMP (WARM ENGINE)	38	140	170-200	230	F		
	ENGINE RPM (IDLE) (HIGH IDLE)	10 10**	625 2950	650	675 3190	RPM RPM		
	AIR CLEANER P (2800 RPM)	*28			25	IN H-O		
	STARTER FIRST PEAK CURRENT (CRANK ON GO)	72		900-1500		AM-PERES		
	(IDLE)	*35	10			PSI		
	ENGINE OIL PRESSURE (WARM ENGINE) (2800 RPM)	35	55	65	75	PSI		
	ENGINE OIL FILTER P (2400 RPM)	*36			24	PSI		

Table E-2. Diagnostic Test Equipment Worksheet — Continued

11. TEST TYPE	12. TEST NO	13. LIMITS			14. UNITS	15. TEST RESULTS	16. CORRECTIVE ACTION	
		MIN	NORMAL	MAX				
(ENGINE OFF) BATTERY VOLTAGE (FAST IDLE, ACCESSORIES ON)	67	22			VOLTS			
	67		25-29	31	VOLTS			
BATTERY RESISTANCE (CRANK ON TO GO)	73			13	MIL- LIOHMS			
ALTERNATOR (GENERATOR) VOLTAGE (FAST IDLE, ACCESSORIES ON)	82	26.7	27-29	29.4	VOLTS			
STARTER CIRCUIT RESISTANCE (CRANK ON GO)	74		3-22	25	MIL- LIOHMS			
POWER TEST % FULL POWER	13**	80%			RPM			
STARTER POSITIVE TERMINAL VOLTAGE (CRANKING)	68	17		VOLTS				
ENGINE OIL TEMP (FAST IDLE)	37	140	200-235	275	F			
ALTERNATOR (GENERATOR) DIAGNOSTIC VOLTAGE (FAST IDLE, ACCESS ON)	83	NOT AVAILABLE		VOLTS				
STARTER NEGATIVE CABLE DROP (CRANKING)	69			1.2	VOLTS			
ALTERNATOR (GENERATOR) NEGATIVE CABLE DROP (FAST IDLE)	84			0.5	VOLTS			
BATTERY CURRENT (CRANKING)	80		350-550		AM- PERES			

Table E-2. Diagnostic Test Equipment Worksheet — Continued

11. TEST TYPE		12. TEST NO	13. LIMITS			14. UNITS	15. TEST RESULTS	16. CORRECTIVE ACTION	
			MIN	NORMAL	MAX				
FUEL RAIL PRESSURE AND SPEED WITH POWER PLANT IN VEHICLE (STALL CHECK)		*01	166-184			PSI			
		24	AT 2310-2610			RPM			
	COMPRESSION UNBALANCE (CRANK WARM ENGINE ON GO)	14**			10	%			
	STARTER SOLENOID VOLTAGE (CRANKING)	70	17			VOLTS			
DCA13	TRANSMISSION OIL TEMP (FAST IDLE)	37	140	170-235	305	F			
	TRANSMISSION OIL PRESSURE (2000 RPM)	*39	150	180-200	220	PSI			
	(IDLE)	*40		300-400		PSI			
	HYDRAULIC SYSTEM PRESSURE (1500-2800)	40		1800-2100		PSI			
	FUEL FILTER P (2800 RPM)	*42			4	PSI			
	TRANSMISSION OIL FILTER P (2800 RPM)	*44			18	PSI			

VEHICLE READINESS TEST

* REQUIRES OFFSET LIMIT TEST PER FIGURES 4-4 AND 4-5

** TESTS CAN ALSO BE PERFORMED USING CONNECTOR DCA 13

Table E-2. Diagnostic Test Equipment Worksheet — Continued

17. ORGANIZATION				18. NOMENCLATURE AND MODEL		
19. TEST TYPE		20. TEST NO.	21. LIMITS	22. UNITS	23. TEST RESULTS	24. CORRECTIVE ACTION
SINGLE BATTERY TESTS	STARTER CIRCUIT RESISTANCE	78	25 MAX	MILLIOHMS	BT1	
					BT2	
					BT3	
					BT4	
	BATTERY CURRENT	90	230-350	AMPERES	BT1	
					BT2	
					BT3	
					BT4	
	BATTERY RESISTANCE CHANGE	79	25/SEC MAX	MILLIOHMS	BT1	
					BT2	
					BT3	
					BT4	
	BATTERY RESISTANCE	77	13 MAX	MILLIOHMS	BT1	
					BT2	
					BT3	
					BT4	
25. REMARKS						

Table E-3. AAV7A1 Limited Technical Inspection

**ASSAULT AMPHIBIOUS VEHICLE (AAV7A1)
UPGUNNED WEAPONS STATION (UGWS), AAVP7A1
LIMITED TECHNICAL INSPECTION**

TAC No. 3-15-05 U.S.M.C. No. 523519 Miles 1571.2 Hours 729.92

Date Inspected 8-10-2020 Inspector FSR (b)(6), (b)(7)(c)

(Rank/Signature)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Basket Weldment								
1. Basket Weldment Clearance.								
a. Area around sides of basket weldment clear of obstructions.	X							
b. Area around 12-channel slip ring clear of obstructions.	X							
2. 12-Channel Slip Ring.								
a. Electrical connectors tight and in good condition.	X							
b. Upper portion of 12-channel slip ring rotates freely.	X							
c. Manual and electrical weapons station operation.	X							
3. Power Relay Assembly.								
a. Box secure to bottom of basket.	X							
b. Electrical connectors tight and in good condition.	X							
4. Basket Inspection.								
a. Seat belt secure, latch working properly, belt in good condition.	X							
b. Stowed items do not overhang basket.	X							
c. Seat in good condition, locks in all height positions, secure in basket assembly.	X							

Crossbar arm bent. Upper Elevation Mech. mounting eyelet hooks to this arm. Elevation mech disconnected at upper mount.

Table E-3. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
II. Weapons Station Interior								
1. Turret Power Control Assembly.								
a. Box cover secure. Box secure to basket weldment.					X			Loose
b. Electrical connector tight and in good condition.	X							
2. Weapon Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	X							
b. Electrical connector tight and in good condition.	X							
3. Traverse Switch Assembly.								
a. Box cover secure to basket weldment.	X							
b. Electrical connector tight and in good condition.	X							
4. M36E-TSS Periscope.								Sight unserviceable
a. Mounting Screws. Check screws for security. Check sight is secure to turret weldment.								/
b. Sight. Check for moisture in window and in mirror. Check condition of glass.								
c. Sight Eyepieces. Check for moisture, condition of reticles, condition of eye-piece pads, and proper operation.								
d. Latch Assembly. Check that latch moves freely, and has spring tension.								
e. Hanger Strap. Check for serviceability.								(b)(6), (b)(7)(c)
f. Head Assembly. Check nuts on head assembly for tightness.								
g. Body Assembly. Check mounting hardware for security and that lock wire is present.								
h. Boresight Knobs — Azimuth and Elevation. Check setting on both knobs and record. Turn each knob, check for smooth movement and shift of sight reticle. Reposition knobs to original settings.								

Table E-3. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
i. Sight Power Electrical Connectors. Check that electrical connectors are in good condition.								<i>Sight unserviceable</i>
j. Check for cracks, dents, burns and chipped paint on housing.								
k. Check that valve cap is tight and retaining strap is not broken or missing.								
l. Check that both knobs on elbow assembly move freely from LO to HI position.								
m. Check that lamp holder is tight and packing is installed.								
n. Check that plug or shutter switch is present. If missing, notify supervisor.								(b)(3), (b)(6), (b)(7)(c)
o. Check that all boresight knobs move freely, and scales can be easily read.								
p. Check ID plate for damage and if it can be easily read. If plate cannot be read, notify supervisor.								
q. Check that shutter switch will not move to ON without pushing safety button first.								
r. Check that valve cap strap is not damaged or missing.								
s. Check that all screws are tight on mounting hardware.								
5. Exhaust Blower. Check for corrosion and debris. Make sure electrical connectors are tight and in good shape. Check operation of blower door.	X							
6. .50 Caliber Ammo Ejection Chute. Check for condition and security. Ensure that chute is clear of debris.								<i>not installed</i>
a. Check ejection-chute hose for security and condition.								(b)(3), (b)(6), (b)(7)(c)
b. Spent-Cartridge Box. Check security and condition. Check operation of latches.								
7. Equilibrator. Check for corrosion, security and adjustment.	X							
8. .50 Caliber Ammo Feed System.								
a. Check security and condition of .50 caliber ammo trays.	X							

Table E-3. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
b. Check security and condition of roller guides.	X							
9. 40mm Ammo Feed System.								
a. Feed Chute. Check for dents, corrosion and/or damage.	X							
b. Check feed-chute cover for tears, holes; zipper must move freely. Check attachment points for security and condition.	X							
c. Check anti-feedback lever for condition and security.	X							
10. 40mm Ammo Box Assembly.								
a. Check security and condition of box, doors, and flaps.	X							
b. Check operation of latches.	X							
c. Check that electrical connector on last-round switch is tight and in good condition.					X			switch not mounted
11. 40mm Charger Assembly. Check condition and security of charger tube.	X							
12. 40mm Mantlet.								
a. Check condition and security.	X							
b. Check operation of cover latches.	/							
13. .50 Caliber Mantlet and Cradle. Check condition and security. Check for damage, cracked welds and bare metal.	X							
14. Power-Assist Traverse Mechanism. Check for security, condition and leakage. Make sure that electrical connectors are tight and in good condition.	X							
15. Elevation Control Assembly. Check for security and condition.					X			upper mount not hooked up.
16. Gunner's Trigger Switch. Check for security and condition. Check that electrical connectors are tight and in good condition.					X			
17. Linkage. Check for security and condition.						X		Bent
18. Grenade Launcher Inhibit Switch. Check for security and condition. Check that electrical connector is tight and in good condition.				X				switch unplugged

Table E-3. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
19. Elevation Interrupter Switches. Check for condition and security. Check that electrical connectors are tight and in good condition.	X							
20. Utility Light. Check that light and electrical connector is secure and in good condition.	X							
21. Communications Box.	X							
a. Check that electrical connector is tight and in good condition.	X							
b. Check for security and condition.	X							
22. Weapons Station. Inspect for damage, security and clarity.	X							
a. Vision Blocks. Inspect for damage, security and clarity.	X							
b. Ring Gear. Inspect for damage and corrosion. Should be clean and no grease.	X							
23. Hatch.								
a. Seal, Hatch, Hinges. Inspect for damage, loose hardware and proper operation.	X							
b. Hatch Latch Check. It should lock the hatch closed, hatch vertical to turret and hatch horizontally open in three positions (15°, 90° and 175°).	X							
c. Hatch Handle. Check security, condition and proper operation.	X							
d. Crash Pads. Inspect pads on hatch and weapons station for security and condition.						X		
24. Sight Cover.								
a. Seals, cover, hinges, inspect for damage, loose hardware and proper operation.					X			
b. Sight cover handle. Check conditions and proper operation.					X			Frozen
25. DAGR.								
a. Check that electrical and antenna connections are tight and in good condition.								DAGR not installed
b. Check for security and condition.								

Table E-3. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
III. Weapons Station Exterior.								
1. Receptacle, Spotlight. Inspect for corrosion and damage. Check that cover fits securely and is tight.	X							
2. Mount, Spotlight. Inspect condition and security.	X							
3. Smoke Grenade Launchers.								Fixed mount on port side
a. Tubes. Inspect sight tubes for dents, cracks or corrosion, and security to mounts. Check security of mount to turret.					X			Bent. Flag Bracket Bent.
b. Electrical Contacts. Check that contacts are tight and free of corrosion.	X							
c. Rubber Caps. Check sight caps for condition.	X							
4. Entrance Window. Inspect condition and security. Look for signs of moisture.						X		sight unserviceable
5. Sight Cover. Inspect condition and security.					X			
6. 40mm Mantlet Cover. Check for security and condition. Check operation of latches.	X							
7. Remote Antenna. Check security and condition of cover.	X							
IV. Functional Tests.								No power
1. Manual Operation. Check for weapons station binding and backlash.								
a. Azimuth. Check movement through 360° clockwise and counterclockwise.								
b. Elevation. Check for +45° maximum elevation and -8° maximum depression.								
2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.								(b)(6), (b)(7)(c)
a. Control Box Lights. Check that control box lamps light when turret power switch is ON by pressing lamp test all button.								
b. Domelight. Lights in both blue and white switch positions.								
c. Utility Light. Lights in both red and white.								
d. Thermal Elbow Check Only. Ensure the unit shows an image and all controls work.								

Table E-3. AAV7A1 Limited Technical Inspection — Continued

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
e. Spotlight. Install and check operation.								NO power
f. Exhaust Blower. Check operation.								
3. Low Ammo System Test.								
a. Last-Round Switch OFF. Last-round indicator light ON, triggers do not work.								
b. Last-Round Switch ON. Last-round indicator lamp light ON, override switch in UP position, triggers work.								
c. Last-Round Switch OFF. Last-round indicator light OFF, override switch down, triggers work.								
4. Weapons Station System. Perform test as prescribed in Section 3.								
a. Manual Elevation. Check operation.					(b)(3), (b)(6), (b)(7)(c)			
b. Deck Clearance. Check clearance of all obstacles. Check all inhibit zones. Weapons electrical trigger will not fire while in inhibit zones.								
5. Smoke Grenade Launcher Test.								
a. Tubes. Check that they are clear of grenades.								
b. Contacts. Check for 24 VDC at eight firing pins inside of tubes on smoke grenade launchers. Turret power switches ON, smoke grenade switch ON, hatch in closed and locked position, and grenade firing switch depressed.								
6. DAGR Operational Test. Refer to TM 11-5820-1172-13.								NO DAGR
a. Check that DAGR passes self-test.								
b. Check that DAGR is using vehicle power.								
c. Check that DAGR is using remote antenna.					(b)(3), (b)(6), (b)(7)(c)			
d. Check functioning of DAGR screen backlighting.								

(b)(3), (b)(6), (b)(7)(c)

From: (b)(3), (b)(6), (b)(7)(c)
Sent: Wednesday, September 16, 2020 8:22 AM
To: (b)(3), (b)(6), (b)(7)(c)
Subject: AAV Investigation Request

From (b)(3), (b)(6), (b)(7)(c)
Sent: Monday, August 31, 2020 3:42 PM

(b)(3), (b)(6), (b)(7)(c)

Subject: Investigation Request

(b)(3), (b)(6), (b)(7)(c)

Here is initial information on the vehicle. Please let me know what other information you are looking for.

The vehicle was built in 1984, with a DD250 date of 10/25/1985.

RAM/RS date: 8/2/1999

IROAN date: 12/21/2015

Mod Installs

EELS Jan/2017

Throttle Linkage June/2018

AFSSS Oct/2018

Thanks,

(b)(3), (b)(6), (b)(7)(c)

Note: I am not a Contracting Officer, I do not have the authority to initiate or modify contracts or to direct you in any way to alter your contractual obligation. I do not have the authority to commit the Government financially in any way.

Historical Tracking File									
HULLNO	SERIALNO	USMCNO	DDZDATE	DDZNO	CONTRACT	TAC	MODEL	TOTAL_MILE	TOTAL_HOUR
P7000234	523519	LV71072	10/25/1985	070078	2185	A004	ANVP7	2451	298

CSA Database									
Vehicle ID	Variant	Model	Holder	Holder_Sub	Remarks	RAM Date	IRCAN Date	IRCAN Date	RCCA Date
523519	P7	RAM/RS	3rd AA Bn		Ordered Shipped on 22Jun16 via DocNr: M21820-6174-AH11 -- REDONE 25JUL16 via DocNr: M21820-6207-AH11	36374	42359	42359	MBB

Vehicle ID	Variant	Model	Holder	Holder_Sub	Remarks	RAM Date	IRCAN Date	IRCAN Date	RCCA Date
44071	523519	AFSSS	EELS revision 6045-1	Throttle Linkage	AFSSS harness update 6066-1				
		sensors	Redesign 6055-2						
		Date	5494-1						

Vehicle ID	Variant	Model	Holder	Holder_Sub	Remarks	RAM Date	IRCAN Date	IRCAN Date	RCCA Date
44071	523519	AFSSS	EELS revision 6045-1	Throttle Linkage	AFSSS harness update 6066-1				
		sensors	Redesign 6055-2						
		Date	5494-1						

Vehicle ID	Variant	Model	Holder	Holder_Sub	Remarks	RAM Date	IRCAN Date	IRCAN Date	RCCA Date
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		sensors	Redesign 6055-2						
		Date	5494-1						

Vehicle ID	Variant	Model	Holder	Holder_Sub	Remarks	RAM Date	IRCAN Date	IRCAN Date	RCCA Date
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		sensors	Redesign 6055-2						
		Date	5494-1						

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		sensors	Redesign 6055-2						
		Date	5494-1						

Vehicle ID	Variant	Model	Holder	Holder_Sub	Remarks	RAM Date	IRCAN Date	IRCAN Date	RCCA Date
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		Date	5494-1						

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		sensors	Redesign 6055-2						
		Date	5494-1						

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		sensors	Redesign 6055-2						
		Date	5494-1						

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		sensors	Redesign 6055-2						
		Date	5494-1						

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		sensors	Redesign 6055-2						
		Date	5494-1						

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		sensors	Redesign 6055-2						
		Date	5494-1						

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		sensors	Redesign 6055-2						
		Date	5494-1						

Vehicle ID	Variant	Model	Holder	Holder_Sub	Remarks	RAM Date	IRCAN Date	IRCAN Date	RCCA Date
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		sensors	Redesign 6055-2						
		Date	5494-1						

Vehicle ID	Variant	Model	Holder	Holder_Sub	Remarks	RAM Date	IRCAN Date	IRCAN Date	RCCA Date
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		sensors	Redesign 6055-2						
		Date	5494-1						

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		sensors	Redesign 6055-2						
		Date	5494-1						

Vehicle ID	Variant	Model	Holder	Holder_Sub	Remarks	RAM Date	IRCAN Date	IRCAN Date	RCCA Date
44071	523519	AFSSS	EELS revision 6045-1	Throttle Linkage	AFSSS harness update 6066-1				
		sensors	Redesign 6055-2						
		Date	5494-1						

ENCLOSURE (46)

DATE: 20200414

SERVICE REQUEST: 29940556

SET SERIAL: 523519

TAMN: E08462K NSN: 235-01-458-7410

DEFECT CODES: S - SERVICABLE U - UNSERVICABLE M - MISSING

LAST PMCS DATE: 20200318

CONDITION CODE: A

(b)(3), (b)(6), (b)(7)(c)

DATE: 2020/4/4

ENCLOSURE (17)

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION		
MODEL (CIRCLE ONE)		REFERENCES
<div style="border: 1px solid black; border-radius: 50%; padding: 2px; display: inline-block;">AAVP7A1</div> AAVC7A1 AAVR7A1		TM 09674A-25&P/4 TM 8F152B-25&P TM 07267B-50 TM 07268B-25&P/2
TAC NO. 3-11-01		MILES 1225
U.S.M.C. NO. 523519		HOURS 272
HULL NO. RAM-Y-009		
ENGINE NO. 37222121		
TRANSMISSION NO. 7004225		
(b)(3), (b)(6), (b)(7)(c)	NAME/RANK/SIGNATURE	DATE INSPECTED
(b)(3), (b)(6), (b)(7)(c)		20200414
NOTE: The following inspection sheets are divided into seven columns. The inspector will place a <i>check</i> in the column which best describes the condition of the item being inspected. For those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column.		

ENCLOSURE (47)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
I. Outside of Vehicle (Forward and Port)								
1. Hull Forward End. Check for damage and bare metal.	✓							Slight Bare Metal
2. Towing Eyes. (Para. 8-33)	✓							
a. Port.	✓							
b. Starboard.	✓							
3. Headlights. (Para. 11-32)								
a. Port.	✓							
b. Starboard.	✓							
c. Headlight Guards.	✓							
4. Bow Plane. (Para. 10-14)								
a. Hinges and Mounting Hardware. (Para. 10-17)	✓							
b. Bow Plane. (Para. 10-17)	✓							
c. Hydraulic Tubes and Fittings. (Para. 10-16)	✓							
d. Pivot Actuator. (Para. 10-18)	✓							
5. Hull Port Side. Check for damage and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)	✓							
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
6. Port Track Shroud. Check for loose mounting hardware and damage. (Para. 16-28)			✓					Needs Paint Job
7. Port Final Drive. (Para. 7-18)								
a. Outer Housing.	✓							
b. Bolts.	✓							
8. Port Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)								
9. Port Sprockets. (Para. 7-16)								
a. Inner.	✓							
b. Outer.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
11. Port Tracks (Para. 7-7) Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
12. Port Road Wheels and Hubs (Para. 7-12) Circle those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level. 1 2 3 4 5 6	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
13. Port Support Arms (Para. 7-13) Circle those numbers which are unserviceable.	✓							
14. Port Torsion Bars (Para. 7-13) Circle those numbers which are unserviceable.								
a. Torsion Bars. 1 2 3 4 5 6	✓							
b. Retaining Screws. 1 2 3 4 5 6	✓							
15. Port Shock Absorbers (Para. 7-11)								
a. No. 1 Shock.	✓							
b. No. 2 Shock.	✓							
c. No. 3 Shock.	✓							
d. No. 4 Shock.	✓							
e. Mounting Hardware.	✓							
16. Port Front Single Support Roller (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

ENCLOSURE (17)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
17. Port Dual Support Roller (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
18. Port Rear Single Support Roller (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
19. Port Slap Guard. (Para. 7-10) Check for wear and loose mounting hardware.	✓							
20. Port Idler Wheel and Hub (Para. 7-9)								
a. Idler.	✓							
b. Outer Wheel.	✓							
c. Inner Wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
21. Port Track Tension Adjuster (Para. 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.			✓					Has Rust
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
22. Port Anode. (Para. 8-53) Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
23. Port Midships Bearing. (Para. 9-18) Check for signs of leaks.	✓							
24. Drive Shaft. (Para. 9-17) Check for signs of damage.	✓							
25. Footman Loop. (Para.) Check for weld cracks.	✓							
26. Port Handrails. (Para.) Check for weld cracks.	✓							
27. Port Cargo Hatch Supports (Para.)								
a. Forward Support.	✓							
b. Aft Support.	✓							
28. Fuel Tank Pressure Relief Valve and Outlet Cover. (Para.) Check cover and mounting screws for damage. Check relief opens.	✓							
29. Check fuel filter cap. (Para.)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
7. Vision Block and Guard								
a. Vision Block Guard.	✓							
b. Vision Block.	✓							
8. Personnel Hatch								
a. Personnel Hatch Handle (inner and outer).	✓							
b. Personnel Hatch Seal.	✓							
c. Hook and Damper.	✓							
d. Mounting Hardware.	✓							
9. Starboard Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
10. Trailer Receptacle								
a. Cover.	✓							
b. Retainer Chain.	✓							
11. Starboard Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
12. Starboard Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate drive shaft to check for free movement of impeller.	✓							
13. Drive Shaft. Check for signs of damage.	✓							
14. Footman Loop. Check for weld cracks.	✓							
15. Starboard Idler Wheel and Hub								
a. Idler.	✓							
b. Outer wheel.	✓							
c. Inner wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
16. Starboard Track Tension Adjuster								
a. Track Adjuster Support.	✓							
b. Track Adjuster.			✓					Has Rust
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
17. Starboard Anode. Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
18. Starboard Midships Bearing. Check for signs of leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
30. Stowage Brackets. Check for weld cracks.	✓							
31. Bilge Pump Outlets.								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
32. Personnel Heater Exhaust Outlet.								
a. Outlet Cap.	✓							
b. Outlet Adapter.	✓							
33. Exterior Fire Extinguisher Pull Handle.								
a. Handle.	✓							
b. Wire Seal.	✓							
34. External Fuel Tank Drain. Check plug for tightness and leaks.	✓							
35. Port Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
36. Port Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
37. Fuel Tank Pressure Relief Valve Outlet Cover. Check cover and mounting screws for damage.	✓							
38. Port Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate driveshaft to check for free movement of impeller.	✓							
II. Outside of Vehicle (Aft and Starboard)								
1. Taillights.								
a. Port Taillight.	✓							
b. Starboard Taillight.	✓							
c. Taillight Guards.	✓							
2. Horn. Check for loose mounting hardware, corrosion, and proper electrical connections.	✓							
3. Tow Cable Stowage Brackets. Check for cracked or bent brackets.	✓							
4. Towing Pintle. Check for loose mounting hardware. Check pintle for free rotation and proper quick-release operation.	✓							
5. Ramp Plugs. Check for tightness.	✓							
6. Ramp Hinges and Towing Eyes. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level.	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
20. Starboard Support Arms. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
22. Starboard Shock Absorbers.								
a. No. 1 Shock	✓							
b. No. 2 Shock	✓							
c. No. 3 Shock	✓							
d. No. 4 Shock	✓							
e. Mounting Hardware.	✓							
23. Starboard Front Single Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
24. Starboard Dual Support Roller.								
a. Support Wheel Cracks Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
25. Starboard Rear Single Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

ENCLOSURE (47)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
26. Starboard Slap Guard. Check for wear and loose mounting hardware.	✓							
27. Starboard Track. Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
28. Starboard Sprocket Rings.								
a. Inner.	✓							
b. Outer.	✓							
29. Starboard Sprocket Carrier. Check for loose mounting hardware and damage.	✓							
30. Starboard Final Drive.								
a. Outer Housing.	✓							
b. Bolts.	✓							
31. Starboard Side Pontoon. Remove drain plug and check for water.	✓							
32. Starboard Track Shroud. Check for loose mounting hardware and damage.			✓					Needs Paint
33. Starboard Bilge Pump Outlets.								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
34. Stowage Brackets. Check for weld cracks.	✓							
35. Heater Exhaust Outlet. Check for loose mounting hardware and damage.	✓							
36. Starboard Cargo Hatch Supports.								
a. Forward Support.	✓							
b. Aft Support.	✓							
c. Hand Rails.	✓							
37. Foorman Loop. Check for weld cracks.	✓							

ENCLOSURE (47)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Center Plate. Check sealing surface for tight fit and retaining screws for tightness.	✓							
7. Exhaust Grille. (Para 8-14)								
NOTE Make sure that exhaust grille is secured properly in raised position.								
a. Screen.	✓							
b. Seal.	✓							
c. Brace Rod.	✓							
d. Lugs (dogs).	✓							
e. Mounting Hardware.	✓							
8. Plenum Indicators								
a. Intake.	✓							
b. Exhaust.	✓							
9. Searchlight Mount and Receptacle. Check for damage.	✓							
10. Driver's Hatch								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
f. DVE Adapter Assembly.	✓							
11. Periscope and Support. Check periscope for breaks and chips and support for damage.	✓							
12. Commander's Hatch								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
13. External Exhaust system. Check the external muffler, muffler guard, for damage and operation.								
a. Muffler.	✓							
b. Guard.	✓							
c. Pipes Clamp.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
14. Ventilation Exhaust Outlet. Check ballistic cover for damage and tight retaining screws. Check screen for damage.	✓							
15. Overhead Protection Kit (OPK).								
a. OPK Tiles.	✓							
b. Torsion Bar Assist Mechanism (TBAM) Cover.	✓							
c. TBAM.	✓							
d. Bosses.	✓							
16. Cargo Hatches.								
a. Covers and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals.	✓							
17. Antenna Mounts.								
a. Receiving Mount.	✓							
b. Port Sending Mount.	✓							
c. Starboard Sending Mount.	✓							
d. PLRS Antenna Mount.	✓							
e. DACT Antenna Mount.	✓							
18. Sea Tow Quick-Release. Check assembly for damage and proper operation.	✓							
V. Engine Compartment (Forward)								
1. Forward Bulkhead, Bow Pod Access Cover, and Bow Pod.								
NOTE Make sure intake grille is properly secured in raised position.								
a. Bow Plane Velocity Fuse Valves.	✓							
b. Bow Pod Access Cover.	✓							
c. TACNAV sensor.	✓							
2. Intake Plenum Actuating Cylinder.								
a. Cylinder.	✓							
b. Hydraulic Hoses.	✓							
3. Cam Roller Lock. Check condition of each latch roller.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
4. Cooling Fan.								
a. Guard.	✓							
b. Shroud.	✓							
c. Fan.	✓							
d. Bearings.	✓							
e. Belt Adjustment.	✓							
f. Seals.	✓							
g. Fan Cartridge Bearing.	✓							
h. Drain Tube.	✓							
5. Surge Tank.								
a. Tank.	✓							
b. Valve.	✓							
c. Hose and Tubes.	✓							
d. Mounting Hardware.	✓							
6. Crew Ventilation.								
a. Ducts, Clamps, and Hoses.	✓							
b. Drain Tube.	✓							
7. Control Linkages.								
a. Brake Linkage.	✓							
b. Steering Linkage.	✓							
c. Throttle Linkage.	✓							
d. Brake Flood Control Valve Linkage.								
NOTE	✓							
Make sure flood valve spindle moves freely.								
e. Engine Compartment Exhaust Fan Linkage.	✓							
8. Transmission Mounts. Check mounts for loose mounting hardware. Check transmission guide and guide rollers for damage.	✓							
9. Electrical Wiring and Connections.								
a. Bulk Head Connectors.	✓							
b. Power Plant Wiring.	✓							
c. Crew Vent Fan.	✓							
d. Electrical Bilge Pump.	✓							
10. Hydrostatic Steering Disconnect Lever. Check lever for correct operation, damage, and wear. Check for leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
25. Precleaner. Check cleaner for damage, loose mounting hardware, and loose clamps. Check screen for damage and debris.	✓							
26. Crew Ventilation Fan. Check mounting hardware for looseness. Check ducts and clamps for damage and tightness.	✓							
27. Starboard Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
28. Starboard Right Angle Drive Shaft. Check condition of shaft coupling for damage. Check coupling bolts for tightness and proper safety wire.	✓							
29. Fan Drive Shaft. Check shaft and coupling for damage or wear. Check safety wire for damage.			✓					Broken Safety Wire
30. Fuel Filter.								
a. Fuel Leaks.	✓							
b. Drain Cock/Contamination.	✓							
c. Electrical Leads/Transducer.	✓							
d. Mounting Hardware/Air Valve.	✓							
31. Power Takeoff Unit.								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Electrical leads/Connections.	✓							
32. Starter. Check that starter is mounted properly. Check electrical leads and connections for damage and proper connections.	✓							
33. Transmission Oil Cooler. Check for oil and water leaks. Check electrical leads and connections for damage. Check oil lines, hoses, and clamps for tightness.	✓							
34. Exhaust Manifold (starboard side). Check for cracks, holes, and corrosion. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
11. Port Final Drive								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
d. Speedometer Adapter/Cable.	✓							
12. Port U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
13. Port Hydraulic Bilge Pump. Check for oil leaks, loose mounting hardware, damaged screen, and debris.	✓							
14. Bilge Pump Bypass Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connections.	✓							
15. Plenum Solenoid Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connection.	✓							
16. Bow Plane Hydraulic tubes. Hoses and Fittings. Check for leaks, loose fittings and loose mounting hardware.	✓							
17. Fuel Manifold. Check for fuel leaks and loose mounting hardware.	✓							
18. Forward Engine Compartment Fire Extinguisher Discharge Nozzle. Check for damage and debris.	✓							
19. Port Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
20. Port Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
21. Starboard Final Drive								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
22. Starboard U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
23. Starboard Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
24. Starboard Electrical Bilge Pump. Check screen for debris and damage. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
35. Transmission. Check for overall cleanliness and damage.	✓							
a. Leaks.	✓							
b. Torque converter to engine mounting screw for tightness.	✓							
c. Range selector valve for leaks and safety wire.	✓							
d. Oil Leaks.	✓							
e. Left and right brake and steer sections for leaks and loose mounting bolts.	✓							
f. Check brakes for proper adjustment.	✓							
g. Check transmission drain line for leaks, damage, and loose drain plug.	✓							
VI. Engine Compartment (Aft)								
1. Exhaust Plenum. Check actuating cylinder and oil lines for leaks. Check condition of plenum seal.	✓							
2. Components Bolted on to the Engine. Check for tight mounting hardware, proper electrical connections, damaged hoses and electrical leads, and leaks.								
a. Turbocharger.	✓							
b. PT Pump.	✓							
c. Exhaust Manifold (port side).	✓							
d. Engine Oil Cooler.	✓							
e. Engine Oil Filter.	✓							
f. Intake Manifold.	✓							
g. Smoke Generation Components.	✓							
h. Cold Start Components.	✓							
i. Crankcase Breathers.	✓							
3. Transmission Oil Filter.								
a. Mounting Hardware.	✓							
b. Leaks.	✓							
c. Check Electrical Connections.	✓							
4. Engine Oil Level. Check for correct level and signs of contamination. Check dipstick for damage.	✓							
5. Transmission Oil Level. Check for correct level and signs of contamination. Check fill tube and dipstick for damage.	✓							
6. Tachometer Drive Shaft. Check for adapter and cable damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Radiator. Check for radiator damage. Check for water leaks on radiator and coolant tubes.	✓							
8. Exhaust System. Check condition of insulation. Check for loose mounting hardware and damaged scavenging system check valve and for leaks.	✓							
9. Engine Compartment Exhaust Duct. Check for cracks or other damage. Check mounting hardware and clamps for tightness. Check tubes for proper mounting.	✓							
10. Engine. Check overall condition of engine for cleanliness and fuel, coolant, and oil leaks.	✓							
11. Generator								
a. Bracket and Hardware.	✓							
b. Pulley and Belt.	✓							
c. Adjustment.	✓							
d. Voltage Regulator	✓							
12. Water Pump. Check for leaks.								
a. Pump.	✓							
b. Hoses and Tubes.	✓							
c. Belt and Adjustment.	✓							
13. Fire Extinguisher Discharge Nozzle. Check for damage, debris, and condition of safety wire.	✓							
14. Engine Oil Heat Exchanger. Check mounting hardware for tightness. Check for oil leaks. Check electrical leads for damage and tight connections.	✓							
15. Cold Start Disconnect Lever. Check for proper operation, damage, and corrosion.	✓							
16. Hydraulic Reservoir								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Oil Level.	✓							
d. Dipstick for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
VII. Troop Compartment								
NOTE Before inspecting troop compartment, open cargo hatches. Sound horn and lower ramp.								
1. Engine Compartment Access Covers (air). Check all thumbscrews and clamps for damage and operation. Check covers for correct mating and damage.								
a. Aft Upper.	✓							
b. Aft Center.	✓							
c. Aft Lower.	✓							
d. Port Upper.	✓							
e. Port Lower.	✓							
f. Smoke Generation.	✓							
2. Smoke Generation Fuel Control Valve. Check to see if valve operates freely. Check for any damaged components and leaks.	✓							
3. Engine Compartment Fire Extinguisher.								
a. Bottle and Tag.	✓							Tag ①
b. Control Valve.	✓							
c. Clamps.	✓							
4. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
5. Coolant Bypass Tube. Check to see if tube is mounted properly in retaining brackets.	✓							
6. Air Cleaner Compartment.								
a. Access Door.	✓							
b. Retaining Brackets.	✓							
c. Element.	✓					✓		
d. Compartment.	✓							
Right Angle Drive Access Cover. Rotate weapon station to gain access to cover. Check cover for proper mating and damage.	✓							
Starboard Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	✓							
Starboard Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
10. Fuel Tank Drains. Check both valves for proper operation. Check fuel lines and fittings for leaks. Check manual shutoff valves to make sure the handle rotates freely.								
a. Internal Fuel Tank Drain.	✓							
b. External Fuel Tank Drain.	✓							
c. Fuel Lines and Fittings.	✓							
d. Manual Shutoff Valve.	✓							
11. Fuel Tank.								
a. Electrical Leads.	✓							
b. Leaks.	✓							
c. Retaining Straps.	✓							
d. Breather Cap.	✓							
12. Troop Seats.								
a. Hinges.	✓							
b. Supports.	✓							
c. Seat Pans.	✓							
d. Cushions.	✓							
e. Safety Belts/Straps.	✓							
f. Adjusting Rods.	✓							
13. Interior Stowage.								
a. MG Cleaning Rod Bracket.	✓							
b. Rifle Brackets.	✓							
c. Water Can Supports.	✓							
d. Seat Stowage Supports.					✓			Fwd Bottom (M)
e. DVE Container.	✓							
f. Portable Fire Extinguisher Bracket.	✓							
g. Pamphlet Stowage Rack.	✓							
h. Ammo Box Bracket.	✓							
i. Hand Oiler Bracket.	✓							
j. Tool Box Stowage Support.	✓							
14. Power Distribution Box. Check to see if box is securely mounted. Check all electrical connections for tightness. Check cover for tight screws. Check slave output power switch for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
15. Batteries								
a. Battery Box Cover.	✓							
b. Holddowns.	✓							
c. Cables and Terminals.	✓							
d. Battery and Terminal Posts.	✓							
e. Battery Box Drains.	✓							
f. Battery Instruction Plate.	✓							
16. Radio Guards. Check guards for damage and loose or missing mounting hardware.	✓							
17. Deflector Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.								
a. Port	✓							
b. Starboard.	✓							
18. Water Steer System Components								
a. Water-Jet Deflector Position Sensing Module (port and starboard).	✓							
b. Water-Jet Deflector Servo Module (port and starboard).	✓							
c. Water-Jet Deflector Solenoid Module (port and starboard).	✓							
d. Actuator Cylinders Port and Starboard.	✓							
e. Actuator Bracket Port and Starboard.	✓							
19. AFSSS Electrical Components								
a. Sensors/Control Box.	✓							
b. Cables.	✓							
20. Dome Lights. Check mounting hardware for tightness. Check for broken or cracked lens and knobs. With master switch ON, check lights for proper operation.			✓					Driver's Station dome light inop
21. Aft Slave Receptacle. Check cover and chain for damage. Check insert for corrosion and damage. Check electrical lead for damage and loose connections. Check mounting hardware for tightness.	✓							
22. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
23. Ramp Lock Linkage. Check to see that linkage does not bind. Check for bent or warped linkage rods.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
24. Ramp. With ramp lowered, check ramp seal for breaks and spongy condition.								
a. Ramp Seal. Check mating with hull in closed position.	✓							
b. Vision Block Cover.	✓							
c. Skid Bars	✓							
d. Quick-Release (Visual Only).	✓							
e. Tow Pintle Release.	✓							
25. Deck Plates								
a. Deck Plates (port and starboard).	✓							
b. Center Deck Plate.	✓							
c. Contact Cooler Bleeder Valve Access Cover.	✓							
d. Bilge Pump Access Cover (port and starboard).	✓							
e. Tiedown Rings.	✓							
NOTE Remove troop compartment deck plates before continuing.								
26. Contact Cooler. Check that bleeder valve is not frozen. Check for signs of leaks.					✓			wing nut seized
27. Torsion Bars. Check torsion bars for damage.	✓							
28. Ramp Cylinder and Cable.	✓							
29. Hydraulic Bilge Pump								
a. Bilge Pump.	✓							
b. Outlet tube.	✓							
30. Electric Bilge Pump								
a. Electric Pump.	✓							
b. Outlet Tube.	✓							
31. Bilges. Check for cleanliness and obvious signs of damage.								
a. Brackets and Mounting Hardware.	✓							
b. Discharge Tubs and Nozzles.	✓							
32. Fire Extinguisher (17 lb).								
a. Mounting Hardware.	✓							
b. Discharge Tub and Seal.	✓							
c. Tag Date.		✓						
d. Seal	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
33. Personnel Heater.								
a. Mounts.	✓							
b. Exhaust System and Cover.			✓					seized
c. Electrical Wiring and Switches.	✓							
d. Fuel System.	✓							
e. Heater Ducts.	✓							
34. Port Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.								
35. Port Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
36. Radio Mounts								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
37. EPLRS Rack								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts	✓							
c. Check Radio Cables.	✓							
VIII. Driver's and Commander's Station								
1. Access Covers.								
a. Hydrostatic Steer Disconnect Lever.	✓							
b. Final Drive U-Joint.	✓							
c. Hydraulic Reservoir.	✓							
2. Flapper Valve. Check spring tension flapper. Check mounting screws for tightness and damage to flapper.	✓							
3. Fire Extinguisher (7 lb). Check mounting bracket and hardware for tightness. Check tag for date bottle was last weighed. Check wire seal on control head.								
a. Bracket and Mounting Hardware.	✓							
b. Tag Date.		✓						
c. Wire Seal.	✓							
4. Ramp Lock Handle. Check handle and lock for damage and proper operation.	✓							
5. Ramp Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Fire Extinguisher Discharge Handle. Check handle for damage and unbroken wire seal.	✓							
7. Power Train Switch. Move lever and check for binding. Check bail for damage.	✓							
8. Mode Selector Switch. Check for missing or damaged toggle switch.	✓							
9. Handle Throttle. Move throttle and check for proper operation. Check linkage and cover for damage.	✓							
10. Gear Selector. Check console for loose mounting hardware for damage. Check movement of selector through all gear range.	✓							
11. Air Cleaner Restrictor Indicator. Check for proper mounting to bulkhead. Check indicator for damage.						✓		
12. Auxiliary Instrument Panel. Check panel for loose mounting hardware. Check that gages are securely mounted in panel, and that hose connections are tight.	✓							missing one screw
13. Accelerator Pedal.								
a. Mounting Hardware/Brackets.	✓							
b. Pedal and Pedal Stop Screw.	✓							
c. Water Drive Switch.	✓							
14. Brake Pedal. Apply and release brakes to check binding.	✓							
15. Parking Brake Handle. Check for proper operation. Make sure that parking brake holds and releases properly.	✓							
16. Steering Wheel. Check wheel for damage. Check operation of wheel tilt. Check for binding linkage. Check steering wheel sensing module for loose mounting hardware or damaged wiring.								
a. Steering Wheel.	✓							
b. Steering Wheel Sensing Module.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
21. Vent Air Hoses, Tubes, and Duct. Check for loose clamps and mounting hardware. Check for damaged hoses, tubes, and duct.	✓							
22. Bilge Outlet Tube. Check tube for damage, hoses for cracks, and clamps for tightness.	✓							
23. Instrument Distribution Box. Check that box is securely mounted, and that cover screws are tight. Check all wiring harness connectors for tightness.	✓							
24. Forward Slave Receptacle on Instrument Distribution Box. Check cover and chain for damage. Check receptacle for corrosion and damage.	✓							
25. Searchlight Switch. Check for damage and operation.	✓							
26. Ventilation Air Outlet Valve. Check for loose mounting hardware and damaged cable and handle with ball. Open and close outlet and check for binding linkage.	✓							
27. Data Plates. Check for damage.	✓							
28. Manual Fuel Shutoff Handle. Check shaft for damage and grommets for wear. Rotate handle to check for free operation.			✓					Frozen
29. Driver's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
30. Troop Commander's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
31. Interior Decals and Instruction Plates. Check to see that they are readable.	✓							
32. Fire Extinguishers (MFSS and AFSSS).								
NOTE At this time all fire suppression system bottles are to be pulled and weighed.								
a. Mounting Hardware.	✓							
b. Discharge Tube and Seal.	✓							
c. Tag Date.		✓						No Tag
d. Seal.	✓							
33. Drive Shaft Guards. Check guards for damage and mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
17. Indicator Panel. Check mounting hardware and grommets for tightness and damage. Check for loose or damaged switches, lights, and buttons.								
a. Master Switch.	✓							
b. Lamp Test/Warning Cancel Switch.	✓							
c. Horn Button.	✓							
d. Panel Lights Brt/Dim Switch.	✓							
e. Cold Start Switch.	✓							
f. Starter Button.	✓							
g. Light Switch.	✓							
h. TACNAV Indicator.						✓		(M) Pins
i. Tachometer.	✓							
j. Speedometer.	✓							
k. Smoke Generation Indicator Light.	✓							
l. Smoke Generation Switch.	✓							
m. Forward Electric Bilge Pump Switch.	✓							
n. Aft Electric Bilge Pump Switch.	✓							
o. Aft Electric Bilge Pump Indicator Light.	✓							
p. Forward Electric Bilge Pump Indicator Light.	✓							
q. Aft Hydraulic Bilge Pump Indicator Light.	✓							
r. Forward Hydraulic Bilge Pump Indicator Light.	✓							
s. Ventilation Switch.	✓							
18. Driver's Display Unit. Check for cracked glass and moisture. Check that unit is securely mounted in indicator panel.								
NOTE Bar scales and warning lights will be checked during the operational portion of preinduction.	✓							
19. Bow Plane Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							
20. Vent Air Outlets. Check driver's and commander's outlets for breaks and cracks. Check to see if outlet rotates freely. Check mounting hardware for tightness.								
a. Driver's Outlet.	✓							
b. Commander's Outlet.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
IX. Equipment Operation								
1. Start vehicle, check operation of the following:								
a. Master Switch.	✓							
b. Horn.	✓							
c. Fuel Level Indicator.	✓							
d. Battery Generator Indicator.	✓							
e. Electric Bilge Pumps (forward and aft).	✓							
f. Panel Lights (brt/dim).	✓							
g. Display Panel Warning Lights.	✓							
h. Vent Switch Low Position.	✓							
2. Perform Diagnostic Test Equipment checks in accordance with TM 09674A-25&P/4, (See worksheet at the end of this Appendix).								
3. Vehicle Stall Check. With brakes locked and gear selector in 4th gear, accelerate fully and check the following:								
a. Brakes.	✓							
b. Transmission.	✓							
c. Engine. RPM.	✓							2390
d. TACNAV Indicator. Check that system powers and display works.						✓		Connection ①
4. Lights. Check that lights work properly.								
a. Light Switch.	✓							
b. Service Drive.	✓							
c. Dimmer Switch.	✓							
d. Blackout Markers.	✓							
e. Stop Light.	✓							
f. Park.	✓							
g. Searchlight.	✓							
h. Interior Dome Lights.			✓					Drivers Station - White Light ①
5. Driver's Viewer Enhancer (DVE). Check that power system works.	✓							
6. Lamp Test Warning Cancel Switch. Check audio signal with proper comm helmet.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
X. Functional Road Test								
1. Steering. Check operation and drift.	✓							
2. Gear Ranges. Check for slippage and that lockup works properly.	✓							
3. Smoke Generation. Check for correct operation.	✓							
4. Brakes. Check to see if brakes pull to one side or the other.	✓							
5. Speedometer. Check for correct operation.	✓							
6. Noises. Check for any unusual noises.	✓							
XI. Water Systems Test								
1. Plenums. Check that plenums close completely. Fan shuts off. (Para. 8-13)	✓							
2. Check if hydraulic bilge pumps operation.	✓							
3. Check if electric bilge pumps operate.	✓							
4. Check that jet drive activates at 1000 to 1200 RPM.	✓							
5. Bow Plane Operation								
a. Control Valve. Check for proper operation and leaks.	✓							
b. Bow Plane. Check that it fully extends and retracts.	✓							
c. Pivot Actuator. Check for leaks, unusual noise and smooth operation.	✓							

NOTE

See TM 10004A-25&P/2 for LTI of UGWS Unique Items.
 See TM 07267B-25&P/4 for LTI of AAVR7A1 Unique Items.
 See TM 07268B-25&P/2 for LTI of AAVC7A1 Unique Items.

APPENDIX C

ASSAULT AMPHIBIOUS VEHICLE
 UPGUNNED WEAPONS STATION (UGWS), AAVP7A1
 LIMITED TECHNICAL INSPECTION

TAC No. 3-11-01 USMC No. 523519 Miles 1225 Hours 272
 Date Inspected 20200414 Inspector (b)(3), (b)(6), (b)(7)(c)

*See Table C-1 for UGWS Deadline Criteria.

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Basket Weldment								
1. Basket Weldment Clearance.	✓							
a. Area around sides of basket weldment clear of obstructions.	✓							
b. Area around 12 channel slip ring clear of obstructions.	✓							
2. 12 Channel Slip Ring.								
a. Electrical connectors tight and in good condition.	✓							
b. Upper portion of 12-channel slip ring rotates freely.	✓							
c. Manual and electrical weapons station operation.	✓							
3. Power Relay Assembly.								
a. Box secure to bottom of basket.	✓							
b. Electrical connectors tight and in good condition.	✓							
4. Basket Inspection								
a. Seat belt secure, latch working properly, belt in good condition.	✓							
b. Stowed items do not overhang basket.	✓							
c. Seat in good condition, locks in all height positions, secure in basket assembly.	✓							
II. Weapons Station Interior								
1. Turret Power Control Assembly.								
a. Box cover secure. Box secure to basket weldment.		✓						PD 2 B/LT
b. Electrical connector tight and in good condition.	✓							
2. Weapon Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							

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NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
3. Traverse Switch Assembly								
a. Box cover secure to basket weldment.		✓	✓					(M) 2 Bolts / Loose
b. Electrical connector tight and in good condition.	✓							
4. M36E-TSS Periscope								
a. Mounting Screws. Check screws for security. Check sight is secure to turret weldment.	✓							
b. Sight. Check for moisture in window and in mirror. Check condition of glass.	✓							
c. Sight Eyepieces. Check for moisture, condition of reticles, condition of eye-piece pads, and proper operation.	✓							
d. Latch Assembly. Check that latch moves freely, and has spring tension.	✓							
e. Hanger Strap. Check for serviceability.	✓							
f. Head Assembly. Check nuts on head assembly for tightness.	✓							
g. Body Assembly. Check mounting hardware for security and that safety wire is present.	✓							
h. Boresight Knobs - Azimuth and Elevation. Check setting on both knobs and record. Turn each knob, check for smooth movement and shift of sight reticle. Reposition knobs to original settings.	✓							
i. Sight Power Electrical Connectors. Check that electrical connectors are in good condition.	✓							
j. Check for cracks, dents, burns and chipped paint on housing.	✓							
k. Check that valve cap is tight and retaining strap is not broken or missing.	✓							
l. Check that both knobs on elbow assembly move freely from LO to HI position.	✓							
m. Check that lamp holder is tight and packing is installed.	✓							
n. Check that plug or shutter switch is present. If missing, notify supervisor.	✓							
o. Check that all boresight knobs move freely, and scales can be easily read.	✓							
p. Check ID plate for damage and if it can be easily read. If plate cannot be read, notify supervisor.	✓							
q. Check that shutter switch will not move to ON without pushing safety button first.	✓							
r. Check that valve cap strap is not damaged or missing.	✓							
s. Check that all screws are tight on mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
5. Exhaust Blower. Check for corrosion and debris. Make sure electrical connectors are tight and in good shape. Check operation of blower door.	✓							
6. .50 Caliber Ammo Ejection Chute. Check for condition and security. Ensure that chute is clear of debris.								
a. Check ejection-chute hose for security and condition.	✓							
b. Spent-Cartridge Box. Check security and condition. Check operation of latches.	✓							
7. Equilibrator. Check for corrosion, security and adjustment.	✓							
8. .50 Caliber Ammo Feed System								
a. Check security and condition of .50 caliber ammo trays.	✓							
b. Check security and condition of roller guides.	✓							
9. 40mm Ammo Feed System								
a. Feed Chute. Check for dents, corrosion and/or damage.	✓							
b. Check feed-chute cover for tears, holes; zipper must move freely. Check attachment points for security and condition.	✓							
c. Check anti-feedback lever for condition and security.	✓							
10. 40mm Ammo Box Assembly								
a. Check security and condition of box, doors, and flaps.	✓							
b. Check operation of latches.	✓							
c. Check that electrical connector on last-round switch is tight and in good condition.	✓							
11. 40mm Charger Assembly. Check condition and security of charger tube.	✓							
12. 40mm Mantlet								
a. Check condition and security.	✓							
b. Check operation of cover latches.	✓							
13. .50 Caliber Mantlet and Cradle. Check condition and security. Check for damage, cracked welds and bare metal.	✓							
14. Power-Assist Traverse Mechanism. Check for security, condition and leakage. Make sure that electrical connectors are tight and in good condition.		✓	✓		✓			Ⓜ 1 Bolt/Loose
15. Elevation Control Assembly. Check for security and condition.	✓							

Small Connection
ENCLOSURE
Connection Loose
Broken

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
16. Gunner's Trigger Switch. Check for security and condition. Check that electrical connectors are tight and in good condition.	✓							
17. Linkage. Check for security and condition.	✓							
18. Grenade Launcher Inhibit Switch. Check for security and condition. Check that electrical connector is tight and in good condition.	✓							
19. Elevation Interrupter Switches. Check for condition and security. Check that electrical connectors are tight and in good condition.	✓							
20. Utility Light. Check that light and electrical connector is secure and in good condition.	✓							
21. Communications Box								
a. Check that electrical connector is tight and in good condition.	✓							
b. Check for security and condition.	✓							
22. Weapons Station. Inspect for damage, security and clarity.								
a. Vision Blocks. Inspect for damage, security and clarity.	✓							
b. Ring Gear. Inspect for damage and corrosion. Should be clean and no grease.	✓							
23. Hatch								
a. Seal, Hatch, Hinges. Inspect for damage, loose hardware and proper operation.	✓							
b. Hatch Latch Check. It should lock the hatch closed, hatch vertical to turret and hatch horizontally open in three positions (15 degrees, 90 degrees and 175 degrees).	✓							
c. Hatch Handle. Check security, condition and proper operation.	✓							
d. Crash Pads. Inspect pads on hatch and weapons station for security and condition.	✓							
24. DAGR								
a. Check that electrical and antenna connections are tight and in good condition.		✓						
b. Check for security and condition.		✓						

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
III. Weapons Station Exterior								
1. Receptacle, Spot Light. Inspect for corrosion and damage. Check that cover fits securely and is tight.	✓							
2. Mount, Spot Light. Inspect condition and security.	✓							
3. Smoke Grenade Launchers								
a. Tubes. Inspect sight tubes for dents, cracks or corrosion, and security to mounts. Check security of mount to turret.	✓							
b. Electrical Contacts. Check that contacts are tight and free of corrosion.	✓							
c. Rubber Caps. Check sight caps for condition.	✓							
4. Entrance Window. Inspect condition and security. Look for signs of moisture.	✓							
5. Sight Cover. Inspect condition and security.	✓							
6. 40mm Mantlet Cover. Check for security and condition. Check operation of latches.	✓							
7. Remote Antenna. Check security and condition of cover.	✓							
IV. Functional Tests								
1. Manual Operation. Check for weapons station binding and backlash.								
a. Azimuth. Check movement through 360 degree clockwise and counter-clockwise.	✓							
b. Elevation. Check for +45 degree maximum elevation and -8 degree maximum depression.	✓							
2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.								
a. Control Box Lights. Check that control box lamps light when turret power switch is ON by pressing lamp test all button.			✓					Smoke Grenade Light (I)
b. Domelight. Lights in both blue and white switch positions.	✓							
c. Utility Light. Lights in both red and white.	✓							
d. Thermal Elbow Check Only. Ensure the unit shows an image and all controls work.	✓							
e. Spot Light. Install and check operation.	✓							
f. Exhaust Blower. Check operation.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
3. Low Ammo System Test								
a. Last-Round Switch OFF. Last-round indicator light on. triggers do not work.	✓							
b. Last-Round Switch ON. Last-round indicator lamp light ON, override switch in up position, triggers work.			✓					Gunner
c. Last-Round Switch OFF. Last-round indicator light OFF, override switch down, triggers work.			✓					Switch (I)
4. Weapons Station System. Perform test as prescribed in Section 3.								
a. Manual Elevation. Check operation.	✓							
b. Deck Clearance. Check clearance of all obstacles. Check all inhibit zones. Weapons electrical trigger will not fire while in inhibit zones.	✓							
5. Smoke Grenade Launcher Test								
a. Tubes. Check that they are clear of grenades.	✓							
b. Contacts. Check for 24 volts at eight firing pins inside of tubes on smoke grenade launchers. Turret power switches ON, smoke grenade switch ON, hatch in closed and locked position and grenade firing switch depressed.	✓							
6. DAGR Operational Test. Refer to TM 11-5820-1172-13.								
a. Check that DAGR passes self-test.		✓						
b. Check that DAGR is using vehicle power.		✓						
c. Check that DAGR is using remote antenna.		✓						
d. Check functioning of DAGR screen back lighting.		✓						

LIMITED TECHNICAL INSPECTION

DATE: 2020-04-13

PURPOSE OF LTR: JLT

RESPONSIBLE UNIT: 3 D A A B N

NOMENCLATURE: AAV 2741

SERVICE REQUEST: 29916532

SET SERIAL: 523445

TAMN: E08467K NSN: 2950-01-458-7410

[illegible]

DEFECT CODES: S - SERVICABLE U - UNSERVICABLE M - MISSING

SL-3 COMPLETE: YES / NO

MODS VERIFIED: YES / NO

LAST PMCS DATE: 20200318

COMMENTS:

CONDITION CODE: F (LAWFUL NDC)

LTI BY PRINT/SIGN

(b)(3), (b)(6), (b)(7)(c)

DATE: 20200712

ENCLOSURE (48)

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION	
MODEL (CIRCLE ONE) <u>AAVP7A1</u> AAVC7A1 AAVR7A1	REFERENCES TM 09674A-25&P/4 TM 8F152B-25&P TM 07267B-50 TM 07268B-25&P/2
TAC NO. <u>3-11-04</u>	MILES <u>1195</u>
U.S.M.C. NO. <u>523445</u>	HOURS <u>252</u>
HULL NO. <u>RAM-Y-003</u>	
ENGINE NO. <u>37720808</u>	
TRANSMISSION NO. <u>A5082E</u>	
INSPECTOR'S NAME/RANK/SIGNATURE (b)(3), (b)(6), (b)(7)(c)	DATE INSPECTED <u>2028413</u>
NOTE: The following inspection sheets are divided into seven columns. The inspector will place a <i>check</i> in the column which best describes the condition of the item being inspected. For those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column.	

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
I. Outside of Vehicle (Forward and Port)								
1. Hull Forward End. Check for damage and bare metal.	✓							
2. Towing Eyes. (Para. 8-33)								
a. Port.	✓							
b. Starboard.	✓							
3. Headlights. (Para. 11-32)								
a. Port.	✓							
b. Starboard.	✓							
c. Headlight Guards.	✓							
4. Bow Plane. (Para. 10-14)								
a. Hinges and Mounting Hardware. (Para. 10-17)	✓							
b. Bow Plane. (Para. 10-17)	✓							
c. Hydraulic Tubes and Fittings. (Para. 10-16)	✓							
d. Pivot Actuator. (Para. 10-18)	✓							
5. Hull Port Side. Check for damage and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)	✓							
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
6. Port Track Shroud. Check for loose mounting hardware and damage. (Para. 16-28)	✓							
7. Port Final Drive. (Para. 7-18)								
a. Outer Housing.	✓							
b. Bolts.	✓							
8. Port Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)								
9. Port Sprockets. (Para. 7-16)								
a. Inner.	✓							
b. Outer.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
11. Port Track (Para. 7-7) Use track wear page to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							(M) 5
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
12. Port Road Wheels and Hubs (Para. 7-12) Circle those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level. 1 2 3 4 5 6			✓					Contaminated
e. Mounting Hardware. 1 2 3 4 5 6	✓							
13. Port Support Arms (Para. 7-13) Circle those numbers which are unserviceable.								
1 2 3 4 5 6	✓							
14. Port Torsion Bars (Para. 7-13) Circle those numbers which are unserviceable.								
a. Torsion Bars. 1 2 3 4 5 6	✓							
b. Retaining Screws. 1 2 3 4 5 6	✓							
15. Port Shock Absorbers (Para. 7-11)								
a. No. 1 Shock	✓							
b. No. 2 Shock	✓							
c. No. 3 Shock	✓							
d. No. 4 Shock	✓							
e. Mounting Hardware	✓							
16. Port Front Single Support Roller (Para. 7-14)								
a. Support Wheel Cracks/Damage	✓							
b. Hub Oil Leaks	✓							
c. Hub Oil Level	✓							
d. Mounting Hardware	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
17. Port Dual Support Roller (Para 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
18. Port Rear Single Support Roller (Para 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
19. Port Slap Guard (Para 7-10) Check for wear and loose mounting hardware.	✓							
20. Port Idler Wheel and Hub (Para 7-9)								
a. Idler.	✓							
b. Outer Wheel.	✓							
c. Inner Wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
21. Port Track Tension Adjuster (Para 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
22. Port Anode (Para 8-53) Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
23. Port Midships Bearing (Para 9-18) Check for signs of leaks.	✓							
24. Drive Shaft (Para 9-17) Check for signs of damage.	✓							
25. Footman Loop (Para) Check for weld cracks.	✓							
26. Port Handrails (Para) Check for weld cracks.	✓							
27. Port Cargo Hatch Supports (Para)								
a. Forward Support.	✓							
b. Aft Support.	✓							
28. Fuel Tank Pressure Relief Valve and Outlet Cover (Para) Check cover and mounting screws for damage. Check relief opens.	✓							
29. Check fuel filter cap (Para)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
30. Stowage Brackets. Check for weld cracks.	✓							
31. Bilge Pump Outlets.								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
32. Personnel Heater Exhaust Outlet.								
a. Outlet Cap.	✓							
b. Outlet Adapter.	✓							
33. Exterior Fire Extinguisher Pull Handle.								
a. Handle.	✓							
b. Wire Seal.	✓							
34. External Fuel Tank Drain. Check plug for tightness and leaks.	✓							
35. Port Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
36. Port Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
37. Fuel Tank Pressure Relief Valve Outlet Cover. Check cover and mounting screws for damage.	✓							
38. Port Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate driveshaft to check for free movement of impeller.	✓							
II. Outside of Vehicle (Aft and Starboard)								
1. Taillights.								
a. Port Taillight.	✓							
b. Starboard Taillight.	✓							
c. Taillight Guards.	✓							
2. Horn. Check for loose mounting hardware, corrosion, and proper electrical connections.	✓							
3. Tow Cable Stowage Brackets. Check for cracked or bent brackets.	✓							
4. Towing Pintle. Check for loose mounting hardware. Check pintle for free rotation and proper quick-release operation.	✓							
5. Ramp Plugs. Check for tightness.	✓							
c. Ramp Hinges and Towing Eyes. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION								Remarks MUST be included if unserviceable.
	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	
7. Vision Block and Guard.								
a. Vision Block Guard.	✓							
b. Vision Block.	✓							
8. Personnel Hatch.								
a. Personnel Hatch Handle (inner and outer).	✓							
b. Personnel Hatch Seal.	✓							
c. Hook and Damper.	✓							
d. Mounting Hardware.	✓							
9. Starboard Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
10. Trailer Receptacle.								
a. Cover.	✓							
b. Retainer Chain.	✓							
11. Starboard Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
12. Starboard Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate drive shaft to check for free movement of impeller.	✓							
13. Drive Shaft. Check for signs of damage.	✓							
14. Footman Loop. Check for weld cracks.	✓							
15. Starboard Idler Wheel and Hub.								
a. Idler.	✓							
b. Outer wheel.	✓							
c. Inner wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
16. Starboard Track Tension Adjuster.								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
17. Starboard Anode. Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
18. Starboard Midships Bearing. Check for signs of leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 ② ③ 4 5 6	✓							Slightly Cracked
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level.	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
20. Starboard Support Arms. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
22. Starboard Shock Absorbers.								
a. No. 1 Shock	✓							
b. No. 2 Shock	✓							
c. No. 3 Shock	✓							
d. No. 4 Shock	✓							
e. Mounting Hardware.	✓							
23. Starboard Front Single Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
24. Starboard Dual Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
25. Starboard Rear Single Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
26. Starboard Slap Guard. Check for wear and loose mounting hardware.	✓							
27. Starboard Track. Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
28. Starboard Sprocket Rings.								
a. Inner.	✓							
b. Outer.	✓							
29. Starboard Sprocket Carrier. Check for loose mounting hardware and damage.	✓							
30. Starboard Final Drive.								
a. Outer Housing.	✓							
b. Bolts.	✓							
31. Starboard Side Pontoon. Remove drain plug and check for water.	✓							
32. Starboard Track Shroud. Check for loose mounting hardware and damage.	✓							
33. Starboard Bilge Pump Outlets.								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
34. Stowage Brackets. Check for weld cracks.	✓							
35. Heater Exhaust Outlet. Check for loose mounting hardware and damage.	✓							
36. Starboard Cargo Hatch Supports.								
a. Forward Support.	✓							
b. Aft Support.	✓							
c. Hand Rails.	✓							
37. Footman Loop. Check for weld cracks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
38. Starboard Side Hull. Check for damaged and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-69a)	✓							
b. Steps. (Para. 16-72)		✓						2 steps
c. Slope Rack Kit (SRK). (Para. 16-73)	✓							
d. Stowage provisions. (Para. 16-81)	✓							
e. Fairings. (Para. 16-71)	✓							
f. Standoff Brackets. (Para. 16-70)	✓							
g. Hull Bosses. (Para. 16-80)	✓							
III. Bottom of Vehicle								
1. Hull. Check bottom of vehicle for damage.	✓							
2. Drain Plugs. Check for missing, tight, or damaged plugs.								
a. Hull.	✓							
b. Ramp.	✓							
c. Contact Cooler.	✓							
IV. Outside of Vehicle (Topside)								
1. Hand Rail (forward). Check for weld cracks or other damage.	✓							
2. Mooring Cleats/Lifting Fixtures. Check for damage. (Para. 8-34)								
a. Forward (port and starboard).	✓							
b. Aft (port and starboard).	✓							
3. Intake Grille								
NOTE Make sure intake grille is secured properly in raised position.								
a. Screen.	✓							
b. Brace Rod.	✓							
c. Cam Lock Handles Stop Screws.	✓							
d. Torsion Bar Assembly. (Para. 8-17)	✓							
e. Mounting Hardware.	✓							
f. Seal.	✓							
4. Ventilator-Aspiration. Check that valve works properly and inlet screen is clean and not damaged. (Para. 8-18)	✓							
5. Rammer Cover and Cap. Check rammer cover for damage and rammer cap for proper seating. (Para. 8-19)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
6. Center Plate. Check sealing surface for tight fit and retaining screws for tightness.	✓							
7. Exhaust Grille. (Para 8-14)								
NOTE Make sure that exhaust grille is secured properly in raised position.								
a. Screen.	✓							
b. Seal.	✓							
c. Brace Rod.	✓							
d. Lugs (dogs).	✓							
e. Mounting Hardware.	✓							
8. Plenum Indicators.								
a. Intake.	✓							
b. Exhaust.	✓							
9. Searchlight Mount and Receptacle. Check for damage.	✓							
10. Driver's Hatch.								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.			✓					Rusty - Sealed
f. DVE Adapter Assembly.	✓							
11. Periscope and Support. Check periscope for breaks and chips and support for damage.	✓							
12. Commander's Hatch.								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
13. External Exhaust system. Check the external muffler, muffler guard, for damage and operation.								
a. Muffler.	✓							
b. Guard.	✓							
c. Pipes Clamp.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
14. Ventilation Exhaust Outlet. Check ballistic cover for damage and tight retaining screws. Check screen for damage.	✓							
15. Overhead Protection Kit (OPK).								
a. OPK Tiles.	✓							
b. Torsion Bar Assist Mechanism (TBAM) Cover.	✓							
c. TBAM.	✓							
d. Bosses.	✓							
16. Cargo Hatches.								
a. Covers and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals.	✓							
17. Antenna Mounts.								
a. Receiving Mount.	✓							
b. Port Sending Mount.	✓							
c. Starboard Sending Mount.	✓							
d. PLRS Antenna Mount.	✓							
e. DACT Antenna Mount.	✓							
18. Sea Tow Quick-Release. Check assembly for damage and proper operation.	✓							
V. Engine Compartment (Forward)								
1. Forward Bulkhead, Bow Pod Access Cover, and Bow Pod.								
NOTE Make sure intake grille is properly secured in raised position.								
a. Bow Plane Velocity Fuse Valves.	✓							
b. Bow Pod Access Cover.	✓							
c. TACNAV sensor.	✓							
2. Intake Plenum Actuating Cylinder.								
a. Cylinder.	✓							
b. Hydraulic Hoses.	✓							
3. Cam Roller Lock. Check condition of each latch roller.	✓							

NOMENCLATURE LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
4. Cooling Fan.								
a. Guard.	✓							
b. Shroud.	✓							
c. Fan.	✓							
d. Bearings.	✓							
e. Belt Adjustment.	✓							
f. Seals.	✓							
g. Fan Cartridge Bearing.	✓							
h. Drain Tube.	✓							
5. Surge Tank.								
a. Tank.	✓							
b. Valve.	✓							
c. Hose and Tubes.	✓							
d. Mounting Hardware.	✓							
6. Crew Ventilation.								
a. Ducts, Clamps, and Hoses.	✓							
b. Drain Tube.	✓							
7. Control Linkages.								
a. Brake Linkage.	✓							
b. Steering Linkage.	✓							
c. Throttle Linkage.	✓							
d. Brake Flood Control Valve Linkage.	✓							
NOTE								
Make sure flood valve spindle moves freely.								
e. Engine Compartment Exhaust Fan Linkage.	✓							
8. Transmission Mounts. Check mounts for loose mounting hardware. Check transmission guide and guide rollers for damage.	✓							
9. Electrical Wiring and Connections.								
a. Bulk Head Connectors.	✓							
b. Power Plant Wiring.	✓							
c. Crew Vent Fan.	✓							
d. Electrical Bilge Pump.	✓							
10. Hydrostatic Steering Disconnect Lever. Check lever for correct operation, damage, and wear. Check for leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
11. Port Final Drive								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
d. Speedometer Adapter Cable.	✓							
12. Port U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
13. Port Hydraulic Bilge Pump. Check for oil leaks, loose mounting hardware, damaged screen, and debris.	✓							
14. Bilge Pump Bypass Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connections.	✓							
15. Plenum Solenoid Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connection.	✓							
16. Bow Plane Hydraulic tubes. Hoses and Fittings. Check for leaks, loose fittings and loose mounting hardware.	✓							
17. Fuel Manifold. Check for fuel leaks and loose mounting hardware.	✓							
18. Forward Engine Compartment Fire Extinguisher Discharge Nozzle. Check for damage and debris.	✓							
19. Port Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
20. Port Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
21. Starboard Final Drive								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
22. Starboard U-Joint. Check for wear, tight screws, and proper safety wiring.			✓					safety wire
23. Starboard Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
24. Starboard Electrical Bilge Pump. Check screen for debris and damage. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
25. Precleaner. Check cleaner for damage, loose mounting hardware, and loose clamps. Check screen for damage and debris.	✓							
26. Crew Ventilation Fan. Check mounting hardware for looseness. Check ducts and clamps for damage and tightness.	✓							
27. Starboard Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓		✓					excess oil
28. Starboard Right Angle Drive Shaft. Check condition of shaft coupling for damage. Check coupling bolts for tightness and proper safety wire.	✓							
29. Fan Drive Shaft. Check shaft and coupling for damage or wear. Check safety wire for damage.	✓							
30. Fuel Filter.								
a. Fuel Leaks.	✓							
b. Drain Cock/Contamination.	✓							
c. Electrical Leads/Transducer.	✓							
d. Mounting Hardware/Air Valve.	✓							
31. Power Takeoff Unit.								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Electrical leads/Connections.	✓							
32. Starter. Check that starter is mounted properly. Check electrical leads and connections for damage and proper connections.	✓							
33. Transmission Oil Cooler. Check for oil and water leaks. Check electrical leads and connections for damage. Check oil lines, hoses, and clamps for tightness.	✓							
34. Exhaust Manifold (starboard side). Check for cracks, holes, and corrosion. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
35. Transmission. Check for overall cleanliness and damage.	✓							
a. Leaks.	✓							
b. Torque converter to engine mounting screw for tightness.	✓							
c. Range selector valve for leaks and safety wire.	✓							
d. Oil Leaks.	✓							
e. Left and right brake and steer sections for leaks and loose mounting bolts.	✓							
f. Check brakes for proper adjustment.	✓							
g. Check transmission drain line for leaks, damage, and loose drain plug.	✓							
VI. Engine Compartment (Aft)								
1. Exhaust Plenum. Check actuating cylinder and oil lines for leaks. Check condition of plenum seal.	✓							
2. Components Bolted on to the Engine. Check for tight mounting hardware, proper electrical connections, damaged hoses and electrical leads, and leaks.	✓							
a. Turbocharger.	✓							
b. PT Pump.	✓							
c. Exhaust Manifold (port side).	✓							
d. Engine Oil Cooler.	✓							
e. Engine Oil Filter.	✓							
f. Intake Manifold.	✓							
g. Smoke Generation Components.	✓							
h. Cold Start Components.	✓							
i. Crankcase Breathers.	✓							
3. Transmission Oil Filter.	✓							
a. Mounting Hardware.	✓							
b. Leaks.	✓							
c. Check Electrical Connections.	✓							
4. Engine Oil Level. Check for correct level and signs of contamination. Check dipstick for damage.	✓							
5. Transmission Oil Level. Check for correct level and signs of contamination. Check fill tube and dipstick for damage.	✓							
6. Tachometer Drive Shaft. Check for adapter and cable damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
7. Radiator. Check for radiator damage. Check for water leaks on radiator and coolant tubes.	✓							
8. Exhaust System. Check condition of insulation. Check for loose mounting hardware and damaged scavenging system check valve and for leaks.	✓							
9. Engine Compartment Exhaust Duct. Check for cracks or other damage. Check mounting hardware and clamps for tightness. Check tubes for proper mounting.	✓							
10. Engine. Check overall condition of engine for cleanliness and fuel, coolant, and oil leaks.	✓							
11. Generator								
a. Bracket and Hardware.	✓							
b. Pulley and Belt.	✓							
c. Adjustment.	✓		✓	✓				
d. Voltage Regulator	✓							
12. Water Pump. Check for leaks.								
a. Pump.	✓							
b. Hoses and Tubes.	✓							
c. Belt and Adjustment.	✓							
13. Fire Extinguisher Discharge Nozzle. Check for damage, debris, and condition of safety wire.	✓							
14. Engine Oil Heat Exchanger. Check mounting hardware for tightness. Check for oil leaks. Check electrical leads for damage and tight connections.	✓							
15. Cold Start Disconnect Lever. Check for proper operation, damage, and corrosion.	✓							
16. Hydraulic Reservoir								
a. Oil Leaks.	✓		✓					Hydro leak from Pump handle
b. Mounting Hardware.	✓							
c. Oil Level.			✓					Empty
d. Dipstick for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
VII. Troop Compartment								
NOTE								
Before inspecting troop compartment, open cargo hatches. Sound horn and lower ramp.								
1. Engine Compartment Access Covers (all). Check all thumbscrews and clamps for damage and operation. Check covers for correct mating and damage.								
a. Aft Upper.	✓							
b. Aft Center.	✓							
c. Aft Lower.	✓							
d. Port Upper.	✓							
e. Port Lower.	✓							
f. Smoke Generation.	✓							
2. Smoke Generation Fuel Control Valve. Check to see if valve operates freely. Check for any damaged components and leaks.	✓							
3. Engine Compartment Fire Extinguisher								
a. Bottle and Tag.	✓							Tag (M)
b. Control Valve.	✓							
c. Clamps.	✓							
4. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
5. Coolant Bypass Tube. Check to see if tube is mounted properly in retaining brackets.	✓							
6. Air Cleaner Compartment								
a. Access Door.	✓							
b. Retaining Brackets.	✓							
c. Element.	✓							
d. Compartment.	✓							
7. Right Angle Drive Access Cover. Rotate weapon station to gain access to cover. Check cover for proper mating and damage.	✓							
8. Starboard Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	✓							
9. Starboard Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
10. Fuel Tank Drains. Check both valves for proper operation. Check fuel lines and fittings for leaks. Check manual shutoff valves to make sure the handle rotates freely.								
a. Internal Fuel Tank Drain.	✓							
b. External Fuel Tank Drain.	✓							
c. Fuel Lines and Fittings.	✓							
d. Manual Shutoff Valve.	✓							
11. Fuel Tank.								
a. Electrical Leads.	✓							
b. Leaks.	✓							
c. Retaining Straps.	✓							
d. Breather Cap.	✓							
12. Troop Seats.								
a. Hinges.	✓							
b. Supports.	✓							
c. Seat Pans.	✓							
d. Cushions.	✓							
e. Safety Belts/Straps.	✓							
f. Adjusting Rods.	✓							
13. Interior Stowage.								
a. MG Cleaning Rod Bracket.	✓							
b. Rifle Brackets.	✓							
c. Water Can Supports.	✓							
d. Seat Stowage Supports.	✓							
e. DVE Container.	✓							
f. Portable Fire Extinguisher Bracket.	✓							
g. Pamphlet Stowage Rack.	✓							
h. Ammo Box Bracket.	✓							
i. Hand Oiler Bracket.	✓							
j. Tool Box Stowage Support.	✓							
14. Power Distribution Box. Check to see if box is securely mounted. Check all electrical connections for tightness. Check cover for tight screws. Check slave output power switch for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
15. Batteries								
a. Battery Box Cover.	✓							
b. Holddowns.	✓							
c. Cables and Terminals.	✓							
d. Battery and Terminal Posts.	✓							
e. Battery Box Drains.	✓							
f. Battery Instruction Plate.	✓							
16. Radio Guards. Check guards for damage and loose or missing mounting hardware.	✓							
17. Deflector/Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.								
a. Port	✓							
b. Starboard.	✓							
18. Water Steer System Components								
a. Water-Jet Deflector Position Sensing Module (port and starboard).	✓							
b. Water-Jet Deflector Servo Module (port and starboard).	✓							
c. Water-Jet Deflector Solenoid Module (port and starboard).	✓							
d. Actuator Cylinders Port and Starboard.	✓							
e. Actuator Bracket Port and Starboard.	✓							
19. AFSSS Electrical Components								
a. Sensors Control Box.	✓							
b. Cables.	✓							
20. Dome Lights. Check mounting hardware for tightness. Check for broken or cracked lens and knobs. With master switch ON, check lights for proper operation.	✓							
21. Aft Slave Receptacle. Check cover and chain for damage. Check insert for corrosion and damage. Check electrical lead for damage and loose connections. Check mounting hardware for tightness.	✓							
22. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
23. Ramp Lock Linkage. Check to see that linkage does not bind. Check for bent or warped linkage rods.				✓				

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
24. Ramp. With ramp lowered, check ramp seal for breaks and spongy condition.								
a. Ramp Seal. Check mating with hull in closed position.	✓							
b. Vision Block Cover.	✓							
c. Skid Bars	✓							
d. Quick-Release (Visual Only).	✓							
e. Tow Pintle Release.	✓							
25. Deck Plates								
a. Deck Plates (port and starboard).	✓							
b. Center Deck Plate.	✓							
c. Contact Cooler Bleeder Valve Access Cover.	✓							
d. Bilge Pump Access Cover (port and starboard).	✓							
e. Tiedown Rings.	✓							
NOTE Remove troop compartment deck plates before continuing.								
26. Contact Cooler. Check that bleeder valve is not frozen. Check for signs of leaks.	✓							
27. Torsion Bars. Check torsion bars for damage.	✓							
28. Ramp Cylinder and Cable.	✓							
29. Hydraulic Bilge Pump								
a. Bilge Pump.	✓							
b. Outlet tube.	✓							
30. Electric Bilge Pump								
a. Electric Pump.	✓							
b. Outlet Tube.	✓							
31. Bilges. Check for cleanliness and obvious signs of damage.								
a. Brackets and Mounting Hardware.	✓							
b. Discharge Tubs and Nozzles.	✓							
32. Fire Extinguisher (17 lb).								
a. Mounting Hardware.	✓							
b. Discharge Tub and Seal.	✓							
c. Tag Date.	✓							
d. Seal.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
33. Personnel Heater.								
a. Mounts.	✓							
b. Exhaust System and Cover.	✓							
c. Electrical Wiring and Switches.	✓							
d. Fuel System.	✓							
e. Heater Ducts.	✓							
34. Port Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.								
35. Port Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
36. Radio Mounts.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
37. EPLRS Rack.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
VIII. Driver's and Commander's Station.								
1. Access Covers.								
a. Hydrostatic Steer Disconnect Lever.	✓							
b. Final Drive U-Joint.	✓							
c. Hydraulic Reservoir.	✓							
2. Flapper Valve. Check spring tension flapper. Check mounting screws for tightness and damage to flapper.	✓							
3. Fire Extinguisher (7 lb). Check mounting bracket and hardware for tightness. Check tag for date bottle was last weighed. Check wire seal on control head.								
a. Bracket and Mounting Hardware.	✓							
b. Tag Date.		✓						
c. Wire Seal.	✓							
4. Ramp Lock Handle. Check handle and look for damage and proper operation.	✓							
5. Ramp Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Fire Extinguisher Discharge Handle. Check handle for damage and unbroken wire seal.	✓							
7. Power Train Switch. Move lever and check for binding. Check bail for damage.	✓							
8. Mode Selector Switch. Check for missing or damaged toggle switch.	✓							
9. Handle Throttle. Move throttle and check for proper operation. Check linkage and cover for damage.					✓			
10. Gear Selector. Check console for loose mounting hardware for damage. Check movement of selector through all gear range.	✓							
11. Air Cleaner Restrictor Indicator. Check for proper mounting to bulkhead. Check indicator for damage.	✓							
12. Auxiliary Instrument Panel. Check panel for loose mounting hardware. Check that gages are securely mounted in panel, and that hose connections are tight.	✓							
13. Accelerator Pedal.								
a. Mounting Hardware/Brackets.	✓							
b. Pedal and Pedal Stop Screw.	✓							
c. Water Drive Switch.	✓							
14. Brake Pedal. Apply and release brakes to check binding.	✓							
15. Parking Brake Handle. Check for proper operation. Make sure that parking brake holds and releases properly.	✓							
16. Steering Wheel. Check wheel for damage. Check operation of wheel tilt. Check for binding linkage. Check steering wheel sensing module for loose mounting hardware or damaged wiring.								
a. Steering Wheel.	✓							
b. Steering Wheel Sensing Module.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
17. Indicator Panel. Check mounting hardware and grommets for tightness and damage. Check for loose or damaged switches, lights, and buttons.								
a. Master Switch.	✓							
b. Lamp Test/Warning Cancel Switch.	✓							
c. Horn Button.	✓							
d. Panel Lights Br/Dim Switch.	✓							
e. Cold Start Switch.	✓							
f. Starter Button.	✓							
g. Light Switch.	✓							
h. TACNAV Indicator.	✓							
i. Tachometer.	✓							
j. Speedometer.	✓							
k. Smoke Generation Indicator Light.	✓							
l. Smoke Generation Switch.	✓							
m. Forward Electric Bilge Pump Switch.	✓							
n. Aft Electric Bilge Pump Switch.	✓							
o. Aft Electric Bilge Pump Indicator Light.	✓							
p. Forward Electric Bilge Pump Indicator Light.	✓							
q. Aft Hydraulic Bilge Pump Indicator Light.	✓							
r. Forward Hydraulic Bilge Pump Indicator Light.	✓							
s. Ventilation Switch.	✓							
18. Driver's Display Unit. Check for cracked glass and moisture. Check that unit is securely mounted in indicator panel.	✓							
NOTE Bar scales and warning lights will be checked during the operational portion of preinduction.	✓							
19. Bow Plane Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							
20. Vent Air Outlets. Check driver's and commander's outlets for breaks and cracks. Check to see if outlet rotates freely. Check mounting hardware for tightness.								
a. Driver's Outlet.	✓							
b. Commander's Outlet.	✓							

ENCLOSURE (18)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
21. Vent Air Hoses, Tubes, and Duct. Check for loose clamps and mounting hardware. Check for damaged hoses, tubes, and duct.	✓							
22. Bilge Outlet Tube. Check tube for damage, hoses for cracks, and clamps for tightness.	✓							
23. Instrument Distribution Box. Check that box is securely mounted, and that cover screws are tight. Check all wiring harness connectors for tightness.	✓							
24. Forward Slave Receptacle on Instrument Distribution Box. Check cover and chain for damage. Check receptacle for corrosion and damage.	✓							
25. Searchlight Switch. Check for damage and operation.	✓							
26. Ventilation Air Outlet Valve. Check for loose mounting hardware and damaged cable and handle with ball. Open and close outlet and check for binding linkage.	✓							
27. Data Plates. Check for damage.	✓							
28. Manual Fuel Shutoff Handle. Check shaft for damage and grommets for wear. Rotate handle to check for free operation.	✓							
29. Driver's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
30. Troop Commander's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
31. Interior Decals and Instruction Plates. Check to see that they are readable.	✓							
32. Fire Extinguishers (MFSS and AFSSS)								
<p align="center">NOTE</p> <p>At this time all fire suppression system bottles are to be pulled and weighed.</p>								
a. Mounting Hardware.	✓							
b. Discharge Tube and Seal.	✓							
c. Tag Date.		✓						No Tag
d. Seal.	✓							
33. Drive Shaft Guards. Check guards for damage and mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
IX. Equipment Operation								
1. Start vehicle, check operation of the following:								
a. Master Switch.	✓							
b. Horn.			✓					Horn (I)
c. Fuel Level Indicator.	✓							
d. Battery Generator Indicator.	✓							
e. Electric Bidge Pumps (forward and aft).	✓							
f. Panel Lights (brt/dim).	✓							
g. Display Panel Warning Lights.	✓							
h. Vent Switch Low Position.	✓							
2. Perform Diagnostic Test Equipment checks in accordance with TM 09674A-25&P/4, (See worksheet at the end of this Appendix).								
3. Vehicle Stall Check. With brakes locked, and gear selector in 4th gear, accelerate fully and check the following:								
a. Brakes.	✓							
b. Transmission.	✓							
c. Engine, RPM.	✓							2400
d. TACNAV Indicator. Check that system powers and display works.					✓			
4. Lights. Check that lights work properly.								
a. Light Switch.	✓							
b. Service Drive.	✓							
c. Dimmer Switch.	✓							
d. Blackout Markers.	✓							
e. Stop Light.	✓							
f. Park.	✓							
g. Searchlight.	✓							
h. Interior Dome Lights.	✓							
5. Driver's Viewer Enhancer (DVE). Check that power system works.	✓							
6. Lamp Test Warning Cancel Switch. Check audio signal with proper comm helmet.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
X. Functional Road Test								
1. Steering. Check operation and drift.	✓							
2. Gear Ranges. Check for slippage and that lockup works properly.	✓							
3. Smoke Generation. Check for correct operation.	✓							
4. Brakes. Check to see if brakes pull to one side or the other.	✓							
5. Speedometer. Check for correct operation.	✓							
6. Noises. Check for any unusual noises.	✓							
XI. Water Systems Test								
1. Plenums. Check that plenums close completely. Fan shuts off. (Para. 8-13)			✓					Hydro System WOP
2. Check if hydraulic bilge pumps operation.			✓					
3. Check if electric bilge pumps operate.	✓							
4. Check that jet drive activates at 1000 to 1200 RPM.			✓					Hydro System INSP
5. Bow Plane Operation:								
a. Control Valve. Check for proper operation and leaks.			✓					Hydro System WOP
b. Bow Plane. Check that it fully extends and retracts.			✓					
c. Pivot Actuator. Check for leaks, unusual noise and smooth operation.			✓					

NOTE

See TM 10004A-25&P/2 for LTI of UGWS Unique Items.
 See TM 07267B-25&P/4 for LTI of AAVR7A1 Unique Items.
 See TM 07268B-25&P/2 for LTI of AAVC7A1 Unique Items.

APPENDIX C

ASSAULT AMPHIBIOUS VEHICLE
UPGUNNED WEAPONS STATION (UGWS), AAVP7A1

LIMITED TECHNICAL INSPECTION

TAC No. 3-11-04 USMC No. 523445 Miles 1195 Hours 252
 Date Inspected 20200413 Inspector _____ (b)(3), (b)(6), (b)(7)(c)

*See Table C-1 for UGWS Deadline Criteria.

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Basket Weldment								
1. Basket Weldment Clearance.								
a. Area around sides of basket weldment clear of obstructions.	✓							
b. Area around 12 channel slip ring clear of obstructions.	✓							
2. 12 Channel Slip Ring.								
a. Electrical connectors tight and in good condition.	✓							
b. Upper portion of 12-channel slip ring rotates freely.	✓							
c. Manual and electrical weapons station operation.	✓							
3. Power Relay Assembly.								
a. Box secure to bottom of basket.	✓							
b. Electrical connectors tight and in good condition.	✓							
4. Basket Inspection								
a. Seat belt secure, latch working properly, belt in good condition.	✓							
b. Stowed items do not overhang basket.	✓							
c. Seat in good condition, locks in all height positions, secure in basket assembly.	✓							
II. Weapons Station Interior								
1. Turret Power Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	✗	✓						(M) 2 Bolts
b. Electrical connector tight and in good condition.	✓							
2. Weapon Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							

ENCLOSURE (48)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
3. Traverse Switch Assembly.								
a. Box cover secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							
4. M36E-TSS Periscope.								
a. Mounting Screws. Check screws for security. Check sight is secure to turret weldment.	✓							
b. Sight. Check for moisture in window and in mirror. Check condition of glass.	✓							
c. Sight Eyepieces. Check for moisture, condition of reticles, condition of eye-piece pads, and proper operation.	✓							
d. Latch Assembly. Check that latch moves freely, and has spring tension.	✓							
e. Hanger Strap. Check for serviceability.	✓							
f. Head Assembly. Check nuts on head assembly for tightness.	✓							
g. Body Assembly. Check mounting hardware for security and that safety wire is present.	✓							
h. Boresight Knobs - Azimuth and Elevation. Check setting on both knobs and record. Turn each knob, check for smooth movement and shift of sight reticle. Reposition knobs to original settings.	✓							
i. Sight Power Electrical Connectors. Check that electrical connectors are in good condition.	✓							
j. Check for cracks, dents, burns and chipped paint on housing.	✓							
k. Check that valve cap is tight and retaining strap is not broken or missing.	✓							
l. Check that both knobs on elbow assembly move freely from LO to HI position.	✓							
m. Check that lamp holder is tight and packing is installed.	✓							
n. Check that plug or shutter switch is present. If missing, notify supervisor.	✓							
o. Check that all boresight knobs move freely, and scales can be easily read.	✓							
p. Check ID plate for damage and if it can be easily read. If plate cannot be read, notify supervisor.	✓							
q. Check that shutter switch will not move to ON without pushing safety button first.	✓							
r. Check that valve cap strap is not damaged or missing.	✓							
s. Check that all screws are tight on mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
5. Exhaust Blower. Check for corrosion and debris. Make sure electrical connectors are tight and in good shape. Check operation of blower door.	✓							
6. 50 Caliber Ammo Ejection Chute. Check for condition and security. Ensure that chute is clear of debris.								
a. Check ejection-chute hose for security and condition.	✓							
b. Spent-Cartridge Box. Check security and condition. Check operation of latches.	✓							
7. Equilibrator. Check for corrosion, security and adjustment.	✓							
8. 50 Caliber Ammo Feed System.								
a. Check security and condition of .50 caliber ammo trays.	✓							
b. Check security and condition of roller guides.	✓							
9. 40mm Ammo Feed System.								
a. Feed Chute. Check for dents, corrosion and/or damage.	✓							
b. Check feed-chute cover for tears, holes; zipper must move freely. Check attachment points for security and condition.	✓							
c. Check anti-feedback lever for condition and security.	✓							
10. 40mm Ammo Box Assembly.								
a. Check security and condition of box, doors, and flaps.	✓							
b. Check operation of latches.	✓							
c. Check that electrical connector on last-round switch is tight and in good condition.	✓							
11. 40mm Charger Assembly. Check condition and security of charger tube.	✓							
12. 40mm Mantlet.								
a. Check condition and security.	✓							
b. Check operation of cover latches.	✓							
13. 50 Caliber Mantlet and Cradle. Check condition and security. Check for damage, cracked welds and bare metal.	✓							
14. Power-Assist Traverse Mechanism. Check for security, condition and leakage. Make sure that electrical connectors are tight and in good condition.	✓							
15. Elevation Control Assembly. Check for security and condition.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
16. Gunner's Trigger Switch. Check for security and condition. Check that electrical connectors are tight and in good condition.	✓							
17. Linkage. Check for security and condition.	✓							
18. Grenade Launcher Inhibit Switch. Check for security and condition. Check that electrical connector is tight and in good condition.		✓						Switch is (M)
19. Elevation Interrupter Switches. Check for condition and security. Check that electrical connectors are tight and in good condition.	✓							
20. Utility Light. Check that light and electrical connector is secure and in good condition.	✓							
21. Communications Box								
a. Check that electrical connector is tight and in good condition.	✓							
b. Check for security and condition.	✓							
22. Weapons Station. Inspect for damage, security and clarity.								
a. Vision Blocks. Inspect for damage, security and clarity.	✓							
b. Ring Gear. Inspect for damage and corrosion. Should be clean and no grease.			✓					A lot of Rust
23. Hatch								
a. Seal, Hatch, Hinges. Inspect for damage, loose hardware and proper operation.	✓							
b. Hatch Latch Check. It should lock the hatch closed, hatch vertical to turret and hatch horizontally open in three positions (15 degrees, 90 degrees and 175 degrees).	✓							
c. Hatch Handle. Check security, condition and proper operation.	✓							
d. Crash Pads. Inspect pads on hatch and weapons station for security and condition.	✓							
24. DAGR								
a. Check that electrical and antenna connections are tight and in good condition.		✓						
b. Check for security and condition.		✓						

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
III. Weapons Station Exterior								
1. Receptacle, Spot Light. Inspect for corrosion and damage. Check that cover fits securely and is tight.	✓							
2. Mount, Spot Light. Inspect condition and security.	✓							
3. Smoke Grenade Launchers								
a. Tubes. Inspect sight tubes for dents, cracks or corrosion, and security to mounts. Check security of mount to turret.	✓							
b. Electrical Contacts. Check that contacts are tight and free of corrosion.	✓							
c. Rubber Caps. Check sight caps for condition.						✓		1 Rubber Cap Biased (U)
4. Entrance Window. Inspect condition and security. Look for signs of moisture.	✓							
5. Sight Cover. Inspect condition and security.	✓							
6. 40mm Mantlet Cover. Check for security and condition. Check operation of latches.	✓							
7. Remote Antenna. Check security and condition of cover.	✓							
IV. Functional Tests								
1. Manual Operation. Check for weapons station binding and backlash.								
a. Azimuth. Check movement through 360 degree clockwise and counter-clockwise.	✓							
b. Elevation. Check for +45 degree maximum elevation and -8 degree maximum depression.	✓							
2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.								
a. Control Box Lights. Check that control box lamps light when turret power switch is ON by pressing lamp test all button.	✓							
b. Domelight. Lights in both blue and white switch positions.	✓							
c. Utility Light. Lights in both red and white.	✓							
d. Thermal Elbow Check Only. Ensure the unit shows an image and all controls work.	✓							
e. Spot Light. Install and check operation.	✓							
f. Exhaust Blower. Check operation.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
3. Low Ammo System Test								
a. Last-Round Switch OFF. Last-round indicator light on, triggers do not work.	✓							
b. Last-Round Switch ON. Last-round indicator lamp light ON, override switch in up position, triggers work.	✓							
c. Last-Round Switch OFF. Last-round indicator light OFF, override switch down, triggers work.	✓							
4. Weapons Station System. Perform test as prescribed in Section 3.								
a. Manual Elevation. Check operation.	✓							
b. Deck Clearance. Check clearance of all obstacles. Check all inhibit zones. Weapons electrical trigger will not fire while in inhibit zones.	✓							
5. Smoke Grenade Launcher Test								
a. Tubes. Check that they are clear of grenades.	✓							
b. Contacts. Check for 24 volts at eight firing pins inside of tubes on smoke grenade launchers. Turret power switches ON, smoke grenade switch ON, hatch in closed and locked position and grenade firing switch depressed.	✓							
6. DAGR Operational Test. Refer to TM 11-5820-1172-13.								
a. Check that DAGR passes self-test.		✓						
b. Check that DAGR is using vehicle power.		✓						
c. Check that DAGR is using remote antenna.		✓						
d. Check functioning of DAGR screen back lighting.		✓						

TAMCN	NOMEN	MSN	SERIAL#	QTY	SL-3 Complete (Y/N)	SN#	SR Status	PRICE EACH	TOTAL
E08467K	2 - CAP, Protective, Dust And Moisture Seal: PN A3207525-1 CAGE 80063	5340-01-381-5666	523445	4	N	29916532	A	\$13.19	\$52.76
E08467K	SHACKLE: Anchor 1-3/8 in. Pin, 21T, PN 12328579 CAGE 19207	4030-01-187-0964	523445	1	N	29916532	A	\$34.37	\$34.37
E08467K	LUBRICATING GUN, Hand: PN 1142 CAGE 1PL57	4930-00-253-2478	523445	1	N	29916532	A	\$11.67	\$11.67
E08467K	PADLOCK: PN A-A-59487-1BC CAGE 58536	5340-00-682-1508	523445	1	N	29916532	A	\$7.88	\$7.88
E08467K	WRENCH, Adjustable: 18 in. lg. 2.062 wr surf.; PN B1078 CAGE 05047	5120-00-240-1414	523445	1	N	29916532	A	\$65.11	\$65.11
TOTAL:									\$171.74

ENCLOSURE 48

DATE: 20200414

SERVICE REQUEST: 29843974

SET SERIAL: 523195

TAMN: E08467K

NSN: 2350-07-458-7410

DEFECT CODES: S - SERVICABLE U - UNSERVICABLE M - MISSING

MODS VERIFIED: YES / NO

LAST PMCS DATE: 20200325

COMMENTS: DRIFT PIN, QTY 1, 01-075-8292, HOIST WIREROPE, QTY 1, 01-071-1746
DIESEL HAND, QTY 1, 00-262-8868, SCREWDRIVER, FLAT TIP, QTY 1, 00-222-8852.

CONDITION CODE: A

(b)(3), (b)(6), (b)(7)(c)

LTI BY PRINT/SIGN

(b)(3), (b)(6), (b)(7)(c)

DATE: 20200414

ENCLOSURE (44)

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION	
MODEL (CIRCLE ONE) <div style="text-align: center;"> AAVP7A1 AAVC7A1 AAVR7A1 </div>	REFERENCES TM 09674A-25&P/4 TM 8F152B-25&P TM 07267B-50 TM 07268B-25&P/2
TAC NO. 3-11-10	MILES 1213
U.S.M.C. NO. 523195	HOURS 258
HULL NO. BAM-A-003	
ENGINE NO. 37191043	
TRANSMISSION NO. A14221E	
INSPECTOR'S NAME/RANK/SIGNATURE (b)(3), (b)(6), (b)(7)(c)	DATE INSPECTED 20200417
NOTE: The following inspection sheets are divided into seven columns. The inspector will place a <i>check</i> in the column which best describes the condition of the item being inspected. For those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column.	

Needs MNT RUN

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Outside of Vehicle (Forward and Port)								
1. Hull Forward End. Check for damage and bare metal.	✓							
2. Towing Eyes. (Para. 8-33)	✓							
a. Port.	✓							
b. Starboard.	✓							
3. Headlights. (Para. 11-32)								
a. Port.	✓							
b. Starboard.	✓							
c. Headlight Guards.	✓							
4. Bow Plane. (Para. 10-14)								
a. Hinges and Mounting Hardware. (Para. 10-17)	✓							
b. Bow Plane. (Para. 10-17)	✓							
c. Hydraulic Tubes and Fittings. (Para. 10-16)	✓							rusty
d. Pivot Actuator. (Para. 10-18)	✓							
5. Hull Port Side. Check for damage and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)	✓							
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
6. Port Track Shroud. Check for loose mounting hardware and damage. (Para. 16-28)	✓							
7. Port Final Drive. (Para. 7-18)								
a. Outer Housing.	✓							
b. Bolts.	✓							
8. Port Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)								
9. Port Sprockets. (Para. 7-16)								
a. Inner.	✓							
b. Outer.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
11. Port Track (Para. 7-7) Use track wear page to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.			✓					(17) inner pads
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.			✓					tension a little low
12. Port Road Wheels and Hubs (Para. 7-12) Circle those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level. 1 2 3 4 5 6	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
13. Port Support Arms (Para. 7-13) Circle those numbers which are unserviceable.	✓							
14. Port Torsion Bars (Para. 7-13) Circle those numbers which are unserviceable.								
a. Torsion Bars. 1 2 3 4 5 6	✓							
b. Retaining Screws. 1 2 3 4 5 6	✓							
15. Port Shock Absorbers (Para. 7-11)								
a. No. 1 Shock.	✓							
b. No. 2 Shock.	✓							
c. No. 3 Shock.	✓							
d. No. 4 Shock.	✓							
e. Mounting Hardware.	✓							
16. Port Front Single Support Roller (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

ENCLOSURE (44)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
17. Port Dual Support Roller (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
18. Port Rear Single Support Roller (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
19. Port Slap Guard. (Para. 7-10) Check for wear and loose mounting hardware.	✓							
20. Port Idler Wheel and Hub (Para. 7-9)								
a. Idler.	✓							
b. Outer Wheel.	✓							
c. Inner Wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
21. Port Track Tension Adjuster (Para. 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
22. Port Anode. (Para. 8-53) Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
23. Port Midships Bearing. (Para. 9-18) Check for signs of leaks.	✓							
24. Drive Shaft. (Para. 9-17) Check for signs of damage.	✓							
25. Footman Loop. (Para.) Check for weld cracks.	✓							
26. Port Handrails. (Para.) Check for weld cracks.	✓							
27. Port Cargo Hatch Supports (Para.)								
a. Forward Support.	✓							
b. Aft Support.	✓							
28. Fuel Tank Pressure Relief Valve and Outlet Cover. (Para.) Check cover and mounting screws for damage. Check relief opens.	✓							
29. Check fuel filter cap. (Para.)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
30. Stowage Brackets. Check for weld cracks.	✓							
31. Bilge Pump Outlets	✓							
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
32. Personnel Heater Exhaust Outlet	✓							
a. Outlet Cap.	✓							
b. Outlet Adapter.	✓							
33. Exterior Fire Extinguisher Pull Handle	✓							
a. Handle.	✓							
b. Wire Seal.	✓							
34. External Fuel Tank Drain. Check plug for tightness and leaks.	✓							
35. Port Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
36. Port Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
37. Fuel Tank Pressure Relief Valve Outlet Cover. Check cover and mounting screws for damage.	✓							
38. Port Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate driveshaft to check for free movement of impeller.	✓							does not rotate freely
II. Outside of Vehicle (Aft and Starboard)								
1. Taillights								
a. Port Taillight.	✓							
b. Starboard Taillight.	✓							
c. Taillight Guards.	✓							
2. Horn. Check for loose mounting hardware, corrosion, and proper electrical connections.	✓							
3. Tow Cable Stowage Brackets. Check for cracked or bent brackets.	✓							
4. Towing Pintle. Check for loose mounting hardware. Check pintle for free rotation and proper quick-release operation.	✓							
5. Ramp Plugs. Check for tightness.	✓							
6. Ramp Hinges and Towing Eyes. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Vision Block and Guard.								
a. Vision Block Guard.	✓							
b. Vision Block.	✓							
8. Personnel Hatch.								
a. Personnel Hatch Handle (inner and outer).	✓							
b. Personnel Hatch Seal.	✓							
c. Hook and Damper.	✓							
d. Mounting Hardware.	✓							
9. Starboard Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
10. Trailer Receptacle.								
a. Cover.	✓							
b. Retainer Chain.	✓							
11. Starboard Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
12. Starboard Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate drive shaft to check for free movement of impeller.	✓							
13. Drive Shaft. Check for signs of damage.	✓							
14. Footman Loop. Check for weld cracks.	✓							
15. Starboard Idler Wheel and Hub.								
a. Idler.	✓							
b. Outer wheel.	✓							
c. Inner wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
16. Starboard Track Tension Adjuster.								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
17. Starboard Anode. Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
18. Starboard Midships Bearing. Check for signs of leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level.	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
20. Starboard Support Arms. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
22. Starboard Shock Absorbers.								
a. No. 1 Shock	✓							
b. No. 2 Shock	✓							
c. No. 3 Shock	✓							
d. No. 4 Shock	✓							
e. Mounting Hardware.	✓							
23. Starboard Front Single Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
24. Starboard Dual Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
25. Starboard Rear Single Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

ENCLOSURE (4/9)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
26. Starboard Slap Guard. Check for wear and loose mounting hardware.	✓							
27. Starboard Track. Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
28. Starboard Sprocket Rings.								
a. Inner.	✓							
b. Outer.	✓							
29. Starboard Sprocket Carrier. Check for loose mounting hardware and damage.	✓							
30. Starboard Final Drive.								
a. Outer Housing.	✓							
b. Bolts.	✓							
31. Starboard Side Pontoon. Remove drain plug and check for water.	✓							
32. Starboard Track Shroud. Check for loose mounting hardware and damage.	✓							
33. Starboard Bilge Pump Outlets.								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
34. Stowage Brackets. Check for weld cracks.	✓							
35. Heater Exhaust Outlet. Check for loose mounting hardware and damage.	✓							
36. Starboard Cargo Hatch Supports.								
a. Forward Support.	✓							
b. Aft Support.	✓							
c. Hand Rails.	✓							
37. Footman Loop. Check for weld cracks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
38. Starboard Side Hull. Check for damaged and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-69a)	✓							
b. Steps. (Para. 16-72)	✓							
c. Slope Rack Kit (SRK). (Para. 16-73)	✓							
d. Stowage provisions. (Para. 16-81)	✓							
e. Fairings. (Para. 16-71)	✓							
f. Standoff Brackets. (Para. 16-70)	✓							
g. Hull Bosses. (Para. 16-80)	✓							
III. Bottom of Vehicle								
1. Hull. Check bottom of vehicle for damage.	✓							
2. Dram Plugs. Check for missing, tight, or damaged plugs.								
a. Hull	✓							
b. Ramp.	✓							
c. Contact Cooler.	✓							
IV. Outside of Vehicle (Topside)								
1. Hand Rail (forward). Check for weld cracks or other damage.	✓							
2. Mooring Cleats/Lifting Fixtures. Check for damage. (Para. 8-34)								
a. Forward (port and starboard).	✓							
b. Aft (port and starboard).	✓							
3. Intake Grille.								
NOTE Make sure intake grille is secured properly in raised position.								
a. Screen.	✓							
b. Brace Rod.	✓							
c. Cam Lock Handles Stop Screws.	✓							
d. Torsion Bar Assembly. (Para. 8-17)	✓							
e. Mounting Hardware.	✓							
f. Seal.	✓							
4. Ventilator-Aspiration. Check that valve works properly and filter screen is clean and not damaged. (Para. 8-18)	✓							
5. Radiator Cover and Cap. Check ballistic cover for damage and radiator cap for proper sealing. (Para. 8-19)	✓							

ENCLOSURE (A9)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Center Plate. Check sealing surface for tight fit and retaining screws for tightness.	✓							
7. Exhaust Grille. (Para 8-14)								
NOTE Make sure that exhaust grille is secured properly in raised position.								
a. Screen.	✓							
b. Seal.	✓							
c. Brace Rod.	✓							
d. Lugs (dogs).	✓							
e. Mounting Hardware.	✓							
8. Plenum Indicators								
a. Intake.	✓							
b. Exhaust.	✓							
9. Searchlight Mount and Receptacle. Check for damage.	✓							
10. Driver's Hatch								
a. Cover and Hinges.	✓							
b. Torsion Bar.			✓					Torsion Bar Cap (M)
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
f. DVE Adapter Assembly.	✓							
11. Periscope and Support. Check periscope for breaks and chips and support for damage.	✓							
12. Commander's Hatch								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
13. External Exhaust system. Check the external muffler, muffler guard, for damage and operation.								
a. Muffler.	✓							
b. Guard.	✓							
c. Pipes Clamp.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
14. Ventilation Exhaust Outlet. Check ballistic cover for damage and tight retaining screws. Check screen for damage.	✓							
15. Overhead Protection Kit (OPK).								
a. OPK Tiles.	✓							
b. Torsion Bar Assist Mechanism (TBAM) Cover.	✓							
c. TBAM.	✓							
d. Bosses.	✓							
16. Cargo Hatches.								
a. Covers and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals.	✓							
17. Antenna Mounts.								
a. Receiving Mount.	✓							
b. Port Sending Mount.	✓							
c. Starboard Sending Mount.	✓							
d. PLRS Antenna Mount.	✓							
e. DACT Antenna Mount.	✓							
18. Sea Tow Quick-Release. Check assembly for damage and proper operation.	✓							
V. Engine Compartment (Forward)								
1. Forward Bulkhead, Bow Pod Access Cover, and Bow Pod.								
NOTE Make sure intake grille is properly secured in raised position.								
a. Bow Plane Velocity Fuse Valves.	✓							
b. Bow Pod Access Cover.	✓							
c. TACNAV sensor.	✓							
2. Intake Plenum Actuating Cylinder.								
a. Cylinder.	✓							
b. Hydraulic Hoses.	✓							
3. Cam Roller Lock. Check condition of each latch roller.	✓							

NOMENCLATURE/LOCATION		Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
4. Cooling Fan.									
a. Guard.		✓							
b. Shroud.		✓							
c. Fan.		✓							
d. Bearings.		✓							
e. Belt Adjustment.		✓							
f. Seals.		✓							
g. Fan Cartridge Bearing.		✓							
h. Drain Tube.		✓							
5. Surge Tank.									
a. Tank.		✓							
b. Valve.		✓							
c. Hose and Tubes.		✓							
d. Mounting Hardware.		✓							
6. Crew Ventilation.									
a. Ducts, Clamps, and Hoses.		✓							
b. Drain Tube.		✓							
7. Control Linkages.									
a. Brake Linkage.		✓							
b. Steering Linkage.		✓							
c. Throttle Linkage.		✓							
d. Brake Flood Control Valve Linkage.		✓							
NOTE		✓							
Make sure flood valve spindle moves freely.									
e. Engine Compartment Exhaust Fan Linkage.		✓							
8. Transmission Mounts. Check mounts for loose mounting hardware. Check transmission guide and guide rollers for damage.				✓					A Lot of Rust
9. Electrical Wiring and Connections.									
a. Bulk Head Connectors.		✓							
b. Power Plant Wiring.		✓							
c. Crew Vent Fan.		✓							
d. Electrical Bilge Pump.		✓							
10. Hydrosanic Steering Disconnect Lever. Check lever for correct operation, damage, and wear. Check for leaks.		✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
11. Port Final Drive								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
d. Speedometer Adapter/Cable.	✓							
12. Port U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
13. Port Hydraulic Bilge Pump. Check for oil leaks, loose mounting hardware, damaged screen, and debris.	✓							
14. Bilge Pump Bypass Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connections.	✓							
15. Plenum Solenoid Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connection.	✓							
16. Bow Plane Hydraulic tubes. Hoses and Fittings. Check for leaks, loose fittings and loose mounting hardware.	✓							
17. Fuel Manifold. Check for fuel leaks and loose mounting hardware.	✓							
18. Forward Engine Compartment Fire Extinguisher Discharge Nozzle. Check for damage and debris.	✓							
19. Port Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
20. Port Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
21. Starboard Final Drive								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
22. Starboard U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
23. Starboard Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
24. Starboard Electrical Bilge Pump. Check screen for debris and damage. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
25. Precleaner. Check cleaner for damage, loose mounting hardware, and loose clamps. Check screen for damage and debris.	✓							
26. Crew Ventilation Fan. Check mounting hardware for looseness. Check ducts and clamps for damage and tightness.	✓							
27. Starboard Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
28. Starboard Right Angle Drive Shaft. Check condition of shaft coupling for damage. Check coupling bolts for tightness and proper safety wire.	✓							
29. Fan Drive Shaft. Check shaft and coupling for damage or wear. Check safety wire for damage.	✓							
30. Fuel Filter.								
a. Fuel Leaks.	✓							
b. Drain Cock/Contamination.	✓							
c. Electrical Leads/Transducer.	✓							
d. Mounting Hardware/Air Valve.	✓							
31. Power Takeoff Unit.								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Electrical leads/Connections.	✓							
32. Starter. Check that starter is mounted properly. Check electrical leads and connections for damage and proper connections.	✓							
33. Transmission Oil Cooler. Check for oil and water leaks. Check electrical leads and connections for damage. Check oil lines, hoses, and clamps for tightness.	✓							
34. Exhaust Manifold (starboard side). Check for cracks, holes, and corrosion. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
35. Transmission. Check for overall cleanliness and damage.								
a. Leaks.	✓							
b. Torque converter to engine mounting screw for tightness.	✓							
c. Range selector valve for leaks and safety wire.	✓							
d. Oil Leaks.	✓							
e. Left and right brake and steer sections for leaks and loose mounting bolts.	✓							
f. Check brakes for proper adjustment.			✓					Paint Covering Reading
g. Check transmission drain line for leaks, damage, and loose drain plug.	✓							
VI. Engine Compartment (Aft)								
1. Exhaust Plenum. Check actuating cylinder and oil lines for leaks. Check condition of plenum seal.	✓							
2. Components Bolted on to the Engine. Check for tight mounting hardware, proper electrical connections, damaged hoses and electrical leads, and leaks.								
a. Turbocharger.	✓							
b. PT Pump.	✓							
c. Exhaust Manifold (port side).	✓							
d. Engine Oil Cooler.	✓							
e. Engine Oil Filter.	✓							
f. Intake Manifold.	✓							
g. Smoke Generation Components.	✓							
h. Cold Start Components.	✓							
i. Crankcase Breathers.	✓							
3. Transmission Oil Filter.								
a. Mounting Hardware.	✓							
b. Leaks.	✓							
c. Check Electrical Connections.	✓							
4. Engine Oil Level. Check for correct level and signs of contamination. Check dipstick for damage.	✓							
5. Transmission Oil Level. Check for correct level and signs of contamination. Check fill tube and dipstick for damage.	✓							
6. Tachometer Drive Shaft. Check for adapter and cable damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
7. Radiator. Check for radiator damage. Check for water leaks on radiator and coolant tubes.	✓							
8. Exhaust System. Check condition of insulation. Check for loose mounting hardware and damaged scavenging system check valve and for leaks.	✓							
9. Engine Compartment Exhaust Duct. Check for cracks or other damage. Check mounting hardware and clamps for tightness. Check tubes for proper mounting.	✓							
10. Engine. Check overall condition of engine for cleanliness and fuel, coolant, and oil leaks.	✓							
11. Generator								
a. Bracket and Hardware.	✓							
b. Pulley and Belt.	✓							
c. Adjustment.	✓							
d. Voltage Regulator	✓							
12. Water Pump. Check for leaks.								
a. Pump.	✓							
b. Hoses and Tubes.	✓							
c. Belt and Adjustment.	✓							
13. Fire Extinguisher Discharge Nozzle. Check for damage, debris, and condition of safety wire.	✓							
14. Engine Oil Heat Exchanger. Check mounting hardware for tightness. Check for oil leaks. Check electrical leads for damage and tight connections.	✓							
15. Cold Start Disconnect Lever. Check for proper operation, damage, and corrosion.	✓							
16. Hydraulic Reservoir								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Oil Level.	✓							
d. Dipstick for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
VII. Troop Compartment								
<p align="center">NOTE</p> <p>Before inspecting troop compartment, open cargo hatches. Sound alarm and lower ramp.</p>								
1. Engine Compartment Access Covers (all). Check all flange gaskets and clamps for damage and operation. Check covers for correct mating and damage.								
a. Aft Upper.	✓							
b. Aft Center.	✓							
c. Aft Lower.	✓							
d. Port Upper.	✓							
e. Port Lower.	✓							
f. Smoke Generation.	✓							
2. Smoke Generation Fuel Control Valve. Check to see if valve operates freely. Check for any damaged components and leaks.			✓					Doesn't stop twisting
3. Engine Compartment Fire Extinguisher.								
a. Bottle and Tag.	✓							Tag Ⓜ
b. Control Valve.	✓							
c. Clamps.	✓							
4. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
5. Coolant Bypass Tube. Check to see if tube is mounted properly in retaining brackets.	✓							
6. Air Cleaner Compartment.								
a. Access Door.	✓							
b. Retaining Brackets.	✓							
c. Element.	✓							
d. Compartment.	✓							
Right Angle Drive Access Cover. Rotate weapon station to gain access to cover. Check cover for proper mating and damage.	✓							
Starboard Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	✓							
Starboard Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
10. Fuel Tank Drains. Check both valves for proper operation. Check fuel lines and fittings for leaks. Check manual shutoff valves to make sure the handle rotates freely.								
a. Internal Fuel Tank Drain.	✓							
b. External Fuel Tank Drain.	✓							
c. Fuel Lines and Fittings.	✓							
d. Manual Shutoff Valve.	✓							
11. Fuel Tank.								
a. Electrical Leads.	✓							
b. Leaks.	✓							
c. Retaining Straps.	✓							
d. Breather Cap.	✓							
12. Troop Seats.								
a. Hinges.		✓	✓					Missing Securing pins
b. Supports.	✓							
c. Seat Pans.	✓							
d. Cushions.	✓							
e. Safety Belts/Straps.		✓						
f. Adjusting Rods.	✓							
13. Interior Stowage.								
a. MG Cleaning Rod Bracket.	✓							
b. Rifle Brackets.	✓							
c. Water Can Supports.	✓							
d. Seat Stowage Supports.	✓							
e. DVE Container.	✓							
f. Portable Fire Extinguisher Bracket.	✓							
g. Pamphlet Stowage Rack.	✓							
h. Ammo Box Bracket.	✓							
i. Hand Oiler Bracket.	✓							
j. Tool Box Stowage Support.	✓							
14. Power Distribution Box. Check to see if box is securely mounted. Check all electrical connections for tightness. Check cover for tight screws. Check slave output power switch for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
15. Batteries								
a. Battery Box Cover.	✓							
b. Holddowns.	✓							
c. Cables and Terminals.	✓							
d. Battery and Terminal Posts.	✓							
e. Battery Box Drains.	✓							
f. Battery Instruction Plate.	✓							
16. Radio Guards. Check guards for damage and loose or missing mounting hardware.	✓							
17. Deflector Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.								
a. Port	✓							
b. Starboard.	✓							
18. Water Steer System Components								
a. Water-Jet Deflector Position Sensing Module (port and starboard).	✓							
b. Water-Jet Deflector Servo Module (port and starboard).	✓					1		
c. Water-Jet Deflector Solenoid Module (port and starboard).	✓							
d. Actuator Cylinders Port and Starboard.	✓							
e. Actuator Bracket Port and Starboard.	✓							
19. APSSS Electrical Components								
a. Sensors Control Box.	✓							
b. Cables.	✓							
20. Dome Lights. Check mounting hardware for tightness. Check for broken or cracked lens and knobs. With master switch ON, check lights for proper operation.	✓							
21. Aft Slave Receptacle. Check cover and chain for damage. Check insert for corrosion and damage. Check electrical lead for damage and loose connections. Check mounting hardware for tightness.	✓							
22. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
23. Ramp Lock Linkage. Check to see that linkage does not bind. Check for bent or warped linkage rods.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
24. Ramp. With ramp lowered, check ramp seal for breaks and spongy condition.								
a. Ramp Seal. Check mating with hull in closed position.	✓							
b. Vision Block Cover.	✓							
c. Skid Bars	✓							
d. Quick-Release (Visual Only).	✓							
e. Tow Pintle Release.	✓							
25. Deck Plates								
a. Deck Plates (port and starboard).	✓							
b. Center Deck Plate.	✓							
c. Contact Cooler Bleeder Valve Access Cover.	✓							
d. Bilge Pump Access Cover (port and starboard).	✓							
e. Tiedown Rings.	✓							
NOTE Remove troop compartment deck plates before continuing.								
26. Contact Cooler. Check that bleeder valve is not frozen. Check for signs of leaks.			✓					Bleeder valve seized
27. Torsion Bars. Check torsion bars for damage.	✓							
28. Ramp Cylinder and Cable.	✓							
29. Hydraulic Bilge Pump								
a. Bilge Pump.	✓							
b. Outlet tube.	✓							
30. Electric Bilge Pump								
a. Electric Pump.	✓							
b. Outlet Tube.	✓							
31. Bilges. Check for cleanliness and obvious signs of damage.								
a. Brackets and Mounting Hardware.	✓							
b. Discharge Tubs and Nozzles.	✓							
32. Fire Extinguisher (17 lb).								
a. Mounting Hardware.	✓							
b. Discharge Tub and Seal.	✓							
c. Tag Date.		✓						
d. Seal	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
33. Personnel Heater.								
a. Mounts.	✓							
b. Exhaust System and Cover.			✓					Handle seized/Broken
c. Electrical Wiring and Switches.	✓							
d. Fuel System.	✓							
e. Heater Ducts.	✓							
34. Port Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	✓							
35. Port Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
36. Radio Mounts.								
a. Check Mounting Hardware.	✓		✓					Top stack ^{hardware} uninstalled
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
37. EPLRS Rack.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
VIII. Driver's and Commander's Station								
1. Access Covers.								
a. Hydrostatic Steer Disconnect Lever.	✓							
b. Final Drive U-Joint.	✓							
c. Hydraulic Reservoir.	✓							
2. Flapper Valve. Check spring tension flapper. Check mounting screws for tightness and damage to flapper.	✓							
3. Fire Extinguisher (7-lb). Check mounting bracket and hardware for tightness. Check tag for date bottle was last weighed. Check wire seal on control head.								
a. Bracket and Mounting Hardware.	✓							
b. Tag Date.		✓						
c. Wire Seal.	✓							
4. Ramp Lock Handle. Check handle and lock for damage and proper operation.	✓							
5. Ramp Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.			✓					leaking at handle

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Fire Extinguisher Discharge Handle. Check handle for damage and unbroken wire seal.	✓							
7. Power Train Switch. Move lever and check for binding. Check bail for damage.	✓							
8. Mode Selector Switch. Check for missing or damaged toggle switch.								
9. Handle Throttle. Move throttle and check for proper operation. Check linkage and cover for damage.	✓							
10. Gear Selector. Check console for loose mounting hardware for damage. Check movement of selector through all gear range.	✓							
11. Air Cleaner Restrictor Indicator. Check for proper mounting to bulkhead. Check indicator for damage.	✓							
12. Auxiliary Instrument Panel. Check panel for loose mounting hardware. Check that gages are securely mounted in panel, and that hose connections are tight.	✓							
13. Accelerator Pedal								
a. Mounting Hardware/Brackets.	✓							
b. Pedal and Pedal Stop Screw.	✓							
c. Wafer Drive Switch.	✓							
14. Brake Pedal. Apply and release brakes to check binding.	✓							
15. Parking Brake Handle. Check for proper operation. Make sure that parking brake holds and releases properly.	✓							
16. Steering Wheel. Check wheel for damage. Check operation of wheel tilt. Check for binding linkage. Check steering wheel sensing module for loose mounting hardware or damaged wiring.								
a. Steering Wheel.	✓							
b. Steering Wheel Sensing Module.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
17. Indicator Panel. Check mounting hardware and grommets for tightness and damage. Check for loose or damaged switches, lights, and buttons.								
a. Master Switch.	✓							
b. Lamp Test/Warning Cancel Switch.	✓							
c. Horn Button.	✓							
d. Panel Lights Brt/Dim Switch.	✓							
e. Cold Start Switch.	✓							
f. Starter Button.	✓							
g. Light Switch.	✓							
h. TACNAV Indicator.	✓							
i. Tachometer.	✓							
j. Speedometer.	✓							
k. Smoke Generation Indicator Light.	✓							
l. Smoke Generation Switch.	✓							
m. Forward Electric Bilge Pump Switch.	✓							
n. Aft Electric Bilge Pump Switch.	✓							
o. Aft Electric Bilge Pump Indicator Light.	✓							
p. Forward Electric Bilge Pump Indicator Light.	✓							
q. Aft Hydraulic Bilge Pump Indicator Light.	✓							
r. Forward Hydraulic Bilge Pump Indicator Light.	✓							
s. Ventilation Switch.	✓							
18. Driver's Display Unit. Check for cracked glass and moisture. Check that unit is securely mounted in indicator panel.			✓					water temp inop
<p align="center">NOTE</p> <p>Bar scales and warning lights will be checked during the operational portion of preinduction.</p>								
19. Bow Plane Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							
20. Vent-Air Outlets. Check driver's and commander's outlets for breaks and cracks. Check to see if outlet rotates freely. Check mounting hardware for tightness.								
a. Driver's Outlet.	✓							
b. Commander's Outlet.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
21. Vent Air Hoses, Tubes, and Duct. Check for loose clamps and mounting hardware. Check for damaged hoses, tubes, and duct.	✓							
22. Bilge Outlet Tube. Check tube for damage, hoses for cracks, and clamps for tightness.	✓							
23. Instrument Distribution Box. Check that box is securely mounted, and that cover screws are tight. Check all wiring harness connectors for tightness.	✓							
24. Forward Slave Receptacle on Instrument Distribution Box. Check cover and chain for damage. Check receptacle for corrosion and damage.	✓							
25. Searchlight Switch. Check for damage and operation.	✓							
26. Ventilation Air Outlet Valve. Check for loose mounting hardware and damaged cable and handle with ball. Open and close outlet and check for binding linkage.	✓							
27. Data Plates. Check for damage.	✓							
28. Manual Fuel Shutoff Handle. Check shaft for damage and grommets for wear. Rotate handle to check for free operation.			✓					missing pin
29. Driver's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓		with					needs PM
30. Troop Commander's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
31. Interior Decals and Instruction Plates. Check to see that they are readable.	✓							
32. Fire Extinguishers (MFSS and AFSSS)								
<p align="center">NOTE</p> <p>At this time all fire suppression system bottles are to be pulled and weighed.</p>								
a. Mounting Hardware.	✓							
b. Discharge Tube and Seal.	✓							
c. Tag Date.			✓					
d. Seal.	✓							
33. Drive Shaft Guards. Check guards for damage and mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
IX. Equipment Operation								
1. Start vehicle, check operation of the following:								
a. Master Switch.	✓							
b. Horn.	✓							
c. Fuel Level Indicator.	✓							
d. Battery Generator Indicator.	✓							
e. Electric Bilge Pumps (forward and aft).	✓							
f. Panel Lights (brt/dim).	✓							
g. Display Panel Warning Lights.	✓							
h. Vent Switch Low Position.	✓							
2. Perform Diagnostic Test Equipment checks in accordance with TM 09674A-25&P/4. (See worksheet at the end of this Appendix).								
3. Vehicle Stall Check. With brakes locked, and gear selector in 4th gear, accelerate fully and check the following:								
a. Brakes.	✓							
b. Transmission.	✓							
c. Engine. RPM.	✓							2500 needs mnt run
d. TACNAV Indicator. Check that system powers and display works.					✓			1.00p
4. Lights. Check that lights work properly.								
a. Light Switch.	✓							
b. Service Drive.	✓							
c. Dimmer Switch.	✓							
d. Blackout Markers.	✓							
e. Stop Light.	✓							
f. Park.	✓							
g. Searchlight.	✓							
h. Interior Dome Lights.	✓							
5. Driver's Viewer Enhancer (DVE). Check that power system works.	✓							
Lamp Test Warning Cancel Switch. Check audio signal with proper comm helmet.	✓							

idle sound
bad

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
X. Functional Road Test								
1. Steering. Check operation and drift.	✓							
2. Gear Ranges. Check for slippage and that lockup works properly.	✓							
3. Smoke Generation. Check for correct operation.	✓							
4. Brakes. Check to see if brakes pull to one side or the other.	✓							
5. Speedometer. Check for correct operation.	✓							
6. Noises. Check for any unusual noises.	✓							
XI. Water Systems Test								
1. Plenums. Check that plenums close completely. Fan shuts off. (Para. 8-13)	✓							
2. Check if hydraulic bilge pumps operation.	✓							
3. Check if electric bilge pumps operate.	✓							
4. Check that jet-drive activates at 1000 to 1200 RPM.	✓							
5. Bow Plane Operation								
a. Control Valve. Check for proper operation and leaks.	✓							
b. Bow Plane. Check that it fully extends and retracts.	✓							
c. Pivot Actuator. Check for leaks, unusual noise and smooth operation.	✓							

NOTE

See TM 10004A-25&P/2 for LTI of UGWS Unique Items.
 See TM 07267B-25&P/4 for LTI of AAVR7A1 Unique Items.
 See TM 07268B-25&P/2 for LTI of AAVC7A1 Unique Items.

APPENDIX C

ASSAULT AMPHIBIOUS VEHICLE
UPGUNNED WEAPONS STATION (UGWS), AAVP7A1

LIMITED TECHNICAL INSPECTION

TAC No. 3-11-10 USMC No. 523195 Miles 1213 Hours 258
 Date Inspected 20200414 Inspect (b)(3), (b)(6), (b)(7)(c)
 (Rank/Signature)

*See Table C-1 for UGWS Deadline Criteria.

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Basket Weldment								
1. Basket Weldment Clearance.								
a. Area around sides of basket weldment clear of obstructions.	✓							
b. Area around 12 channel slip ring clear of obstructions.	✓							
2. 12 Channel Slip Ring.								
a. Electrical connectors tight and in good condition.	✓							
b. Upper portion of 12-channel slip ring rotates freely.	✓							
c. Manual and electrical weapons station operation.	✓							
3. Power Relay Assembly.								
a. Box secure to bottom of basket.	✓							
b. Electrical connectors tight and in good condition.	✓							
4. Basket Inspection	✓							
a. Seat belt secure, latch working properly, belt in good condition.						✓		
b. Stowed items do not overhang basket.	✓							
c. Seat in good condition, locks in all height positions, secure in basket assembly.	✓							
II. Weapons Station Interior								
1. Turret Power Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							
2. Weapon Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							

ENCLOSURE #19

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
3. Traverse Switch Assembly								
a. Box cover secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓				✓			electrical lead corroded
4. M36P TSS Periscope								
a. Mounting Screws. Check screws for security. Check sight is secure to turret weldment.	✓							
b. Sight. Check for moisture in window and in mirror. Check condition of glass.			✓					moist in sight head
c. Sight Eyepieces. Check for moisture, condition of reticles, condition of eye-piece pads, and proper operation.	✓							some scratches missing eye-piece
d. Latch Assembly. Check that latch moves freely, and has spring tension.	✓							
e. Hanger Strap. Check for serviceability.	✓							
f. Head Assembly. Check nuts on head assembly for tightness.	✓							
g. Body Assembly. Check mounting hardware for security and that safety wire is present.	✓							
h. Boresight Knobs - Azimuth and Elevation. Check setting on both knobs and record. Turn each knob, check for smooth movement and shift of sight reticle. Reposition knobs to original settings.	✓							
i. Sight Power Electrical Connectors. Check that electrical connectors are in good condition.						✓		ground to sight cable is ripped.
j. Check for cracks, dents, burns and chipped paint on housing.	✓							
k. Check that valve cap is tight and retaining strap is not broken or missing.	✓							strap (m)
l. Check that both knobs on elbow assembly move freely from LO to HI position.	✓							
m. Check that lamp holder is tight and packing is installed.	✓							
n. Check that plug or shutter switch is present. If missing, notify supervisor.	✓							
o. Check that all boresight knobs move freely, and scales can be easily read.	✓							
p. Check ID plate for damage and if it can be easily read. If plate cannot be read, notify supervisor.	✓							
q. Check that shutter switch will not move to ON without pushing safety button first.	✓							
r. Check that valve cap strap is not damaged or missing.		✓						
s. Check that all screws are tight on mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
16. Gunner's Trigger Switch. Check for security and condition. Check that electrical connectors are tight and in good condition.	✓							
17. Linkage. Check for security and condition.	✓							
18. Grenade Launcher Inhibit Switch. Check for security and condition. Check that electrical connector is tight and in good condition.	✓							
19. Elevation Interrupter Switches. Check for condition and security. Check that electrical connectors are tight and in good condition.	✓							
20. Utility Light. Check that light and electrical connector is secure and in good condition.	✓							
21. Communications Box.								
a. Check that electrical connector is tight and in good condition.	✓							
b. Check for security and condition.	✓							
22. Weapons Station. Inspect for damage, security and clarity.								
a. Vision Blocks. Inspect for damage, security and clarity.	✓							
b. Ring Gear. Inspect for damage and corrosion. Should be clean and no grease.	✓							
23. Hatch.								
a. Seal, Hatch, Hinges. Inspect for damage, loose hardware and proper operation.	✓							
b. Hatch Latch Check. It should lock the hatch closed, hatch vertical to turret and hatch horizontally open in three positions (15 degrees, 90 degrees and 175 degrees).	✓							
c. Hatch Handle. Check security, condition and proper operation.	✓							
d. Crash Pads. Inspect pads on hatch and weapons station for security and condition.						✓		Torn/Worn
24. DAGR								
a. Check that electrical and antenna connections are tight and in good condition.		✓						
b. Check for security and condition.		✓						

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
5. Exhaust Blower. Check for corrosion and debris. Make sure electrical connectors are tight and in good shape. Check operation of blower door.			✓					Stays on, when when switch is off. switch magnetizes
6. 50 Caliber Ammo Ejection Chute. Check for condition and security. Ensure that chute is clear of debris.								
a. Check ejection-chute hose for security and condition.	✓							
b. Spent-Cartridge Box. Check security and condition. Check operation of latches.	✓							
7. Equilibrator. Check for corrosion, security and adjustment.	✓							
8. 50 Caliber Ammo Feed System.								
a. Check security and condition of .50 caliber ammo trays.	✓							
b. Check security and condition of roller guides.	✓							
9. 40mm Ammo Feed System.								
a. Feed Chute. Check for dents, corrosion and/or damage.	✓							
b. Check feed-chute cover for tears, holes; zipper must move freely. Check attachment points for security and condition.	✓							
c. Check anti-feedback lever for condition and security.	✓							
10. 40mm Ammo Box Assembly.								
a. Check security and condition of box, doors, and flaps.	✓							
b. Check operation of latches.	✓							
c. Check that electrical connector on last-round switch is tight and in good condition.	✓							
11. 40mm Charger Assembly. Check condition and security of charger tube.	✓							
12. 40mm Mantlet.								
a. Check condition and security.	✓							Needs PM
b. Check operation of cover latches.	✓							
13. 50 Caliber Mantlet and Cradle. Check condition and security. Check for damage, cracked welds and bare metal.	✓							
14. Power-Assist Traverse Mechanism. Check for security, condition and leakage. Make sure that electrical connectors are tight and in good condition.					✓			electrical connector pins are in op on small plug
15. Elevation Control Assembly. Check for security and condition.	✓							Needs PM

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
III. Weapons Station Exterior								
1. Receptacle, Spot Light. Inspect for corrosion and damage. Check that cover fits securely and is tight.	✓							
2. Mount, Spot Light. Inspect condition and security.	✓							
3. Smoke Grenade Launchers								
a. Tubes. Inspect sight tubes for dents, cracks or corrosion, and security to mounts. Check security of mount to turret.	✓							
b. Electrical Contacts. Check that contacts are tight and free of corrosion.	✓							
c. Rubber Caps. Check sight caps for condition.		✓						1 cap
4. Entrance Window. Inspect condition and security. Look for signs of moisture.			✓					moisture
5. Sight Cover. Inspect condition and security.			✓					Doesn't go down
6. 40mm Manifold Cover. Check for security and condition. Check operation of latches.	✓	✓						Needs PM
7. Remote Antenna. Check security and condition of cover.	✓							
IV. Functional Tests								
1. Manual Operation. Check for weapons station binding and backlash.								
a. Azimuth. Check movement through 360 degree clockwise and counter-clockwise.	✓							
b. Elevation. Check for +45 degree maximum elevation and -8 degree maximum depression.	✓							
2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.								
a. Control Box Lights. Check that control box lamps light when turret power switch is ON by pressing lamp test all button.	✓							
b. Domelight. Lights in both blue and white switch positions.	✓							
c. Utility Light. Lights in both red and white.	✓							
d. Thermal Elbow Check Only. Ensure the unit shows an image and all controls work.		✓						Polarity doesn't change
e. Spot Light. Install and check operation.	✓							
f. Exhaust Blower. Check operation.		✓						Doesn't turn off

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
3. Low Ammo System Test								
a. Last-Round Switch OFF. Last-round indicator light on, triggers do not work.	✓							
b. Last-Round Switch ON. Last-round indicator lamp light ON, override switch in up position, triggers work.	✓							
c. Last-Round Switch OFF. Last-round indicator light OFF, override switch down, triggers work.	✓							
4. Weapons Station System. Perform test as prescribed in Section 3.								
a. Manual Elevation. Check operation.	✓							
b. Deck Clearance. Check clearance of all obstacles. Check all inhibit zones. Weapons electrical trigger will not fire while in inhibit zones.	✓							
5. Smoke Grenade Launcher Test								
a. Tubes. Check that they are clear of grenades.	✓							
b. Contacts. Check for 24 volts at eight firing pins inside of tubes on smoke grenade launchers. Turret power switches ON, smoke grenade switch ON, hatch in closed and locked position and grenade firing switch depressed.		NA	✓					Wiring cable to inhibit switch is cut
6. DAGR Operational Test. Refer to TM 11-5820-1172-13.								
a. Check that DAGR passes self-test.		✓						
b. Check that DAGR is using vehicle power.		✓						
c. Check that DAGR is using remote antenna.		✓						
d. Check functioning of DAGR screen back lighting.		✓						

TAMCEN	NOMEN	MSN	SERIAL#	QTY	SLA Complete (Y/N)	S/N#	SR Status	PRICE EACH	TOTAL	REMARKS
608467K	2 - CAP, Protective, Dust And Moisture Seal: PN A3207525-1, CAGE 80083	5340-01-381-5666	523195	4	N	29916452	A	\$13.19	\$52.76	
608467K	BAR, P/T: 0.3 lb; PN B107-410 CAGE 05047	5120-01-355-2064	523195	1	N	29916452	A	\$9.95	\$9.95	
608467K	DIRECT PIN, Trade: PN 2590157-1, CAGE 80064	2590-01-075-8292	523195	1	N	29916452	A	\$98.54	\$98.54	
608467K	HAMMER, Hand, Sledge: 6 lb wgt, 32 in. ltr; PN B107-400 CAGE 05047	5120-00-265-7482	523195	1	N	29916452	A	\$24.48	\$24.48	
608467K	HOIST, Wire Rope: PN A4000-20 CAGE 59601	3950-01-071-1746	523195	1	N	29916452	A	\$265.46	\$265.46	
608467K	KNIFE, Utility: PN 5120-00-221-1596 CAGE 90234	5120-00-221-1596	523195	1	N	29916452	A	\$5.11	\$5.11	
608467K	LUBRICATING GUN, Hand: PN 1142 CAGE 1P157	4930-00-253-2478	523195	1	N	29916452	A	\$11.67	\$11.67	
608467K	MEASURE, Liquid: PN 07472 CAGE ANSU7	7240-00-755-8113	523195	1	N	29916452	A	\$40.01	\$40.01	
608467K	ROLLER, Hand: PN ASD477 AS-D CAGE 58536	4930-00-262-8868	523195	1	N	29916452	A	\$6.47	\$6.47	
608467K	SCREWDRIVER, Flat Tip: 0.250 in. Width; PN 66-441 CAGE 63600	5120-00-222-8852	523195	1	N	29916452	A	\$2.67	\$2.67	
608467K	SOCKET, Socket Wrench: 1 1/8 in. 3/4 in. dr; PN D11362 CAGE 55719	5120-01-378-5543	523195	1	N	29916452	A	\$16.50	\$16.50	
608467K	SOCKET, Socket Wrench: 1 1/8 in. 3/4 in. dr; PN 5323A27 CAGE 39428	5120-00-249-1697	523195	1	N	29916452	A	\$8.43	\$8.43	
608467K	1 - EXTENSION, Socket Wrench: 1/2 in. dr; 2.000 in. ltr; PN 5323A27 CAGE 39428	5120-00-249-7326	523195	1	N	29916452	A	\$6.72	\$6.72	
608467K	WRENCH, Box: 3/8 in. wt surf; 7/16 in. wt surf; offset; 12 pt wt surf; PN X01214A CAGE 59719	5120-01-349-1183	523195	1	N	29916452	A	\$9.50	\$9.50	
608467K	WRENCH, Box: 5/8 in. wt surf; 3/4 in. wt surf; offset; 12 pt wt surf; PN A5954 CAGE B1343	5120-00-224-1188	523195	1	N	29916452	A	\$6.59	\$6.59	
TOTAL									\$563.26	

ENCLOSURE (4A)

TAMCN	NOMEN	NIIN	SERIAL#	QTY	Condition Code	SR#	SR Status	T/P (\$)	REMARKS
E08467K	CABLE ASSEMBLY, SPEC	01-449-1701	523195	1	R	29843974	SHT PART	\$457.14	
E08467K	NUT, PLAIN, HEXAGON	00-903-5966	523195	20	R	29843974	SHT PART	\$186.20	
E08467K	RING, RETAINING	01-102-3533	523195	1	R	29843974	SHT PART	\$0.43	
E08467K	COVER, ACCESS	01-341-3248	523195	1	R	29843974	SHT PART	\$3.49	
E08467K	O-RING	00-579-7918	523195	1	R	29843974	SHT PART	\$0.57	
E08467K	PIN, COTTER	00-842-3044	523195	8	R	29843974	SHT PART	\$157.92	
E08467K	WASHER, FLAT	00-809-4061	523195	4	R	29843974	SHT PART	\$23.48	
E08467K	SPRING, HELICAL	00-158-0301	523195	4	R	29843974	SHT PART	\$13.64	
E08467K	PIN, STRAIGHT, HEAD	00-165-8365	523195	4	R	29843974	SHT PART	\$8.68	
E08467K	BEARING, SLEEVE	00-981-3136	523195	16	R	29843974	SHT PART	\$20.48	

ENCLOSURE 49

LIMITED TECHNICAL INSPECTION

DATE: 20200415

PURPOSE OF LTI: SLTI

SERVICE REQUEST: 29871696

RESPONSIBLE UNIT: 3D A4 BN

SET SERIAL: 522499

NOMENCLATURE: AAU P7A1

TAMN: E08467K NSN: 2350-01-458-7410

[illegible]

DEFECT CODES: S - SERVICABLE U - UNSERVICABLE M - MISSING

SL-3 COMPLETE: YES / NO

MODS VERIFIED: (YES) NO

LAST PMCS DATE: 20200214

COMMENTS:

CONDITION CODE: A

LTI BY PRINT/SIGN

(b)(3), (b)(6), (b)(7)(c)

__ LTI BY PRINT/SIGN:

(b)(3), (b)(6), (b)(7)(c)

DATE: 20200415

ENCLOSURE (50)

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION	
MODEL (CIRCLE ONE) <div style="text-align: center;"> AAVP7A1 AAVC7A1 AAVR7A1 </div>	REFERENCES TM 09674A-25&P/4 TM 8F152B-25&P TM 07267B-50 TM 07268B-25&P/2
TAC NO. 3H607	MILES 2793
U.S.M.C. NO. 522499	HOURS 536
HULL NO. RAM-A-330	
ENGINE NO. 37196664	
TRANSMISSION NO. B0145E	
INSPECTOR'S NAME/RANK/SIGNATURE (b)(3), (b)(6), (b)(7)(c)	DATE INSPECTED 20200415
NOTE: The following inspection sheets are divided into seven columns. The inspector will place a <i>check</i> in the column which best describes the condition of the item being inspected. For those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column.	

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
I. Outside of Vehicle (Forward and Port)								
1. Hull Forward End. Check for damage and bare metal.	✓							
2. Towing Eyes. (Para. 8-33)								
a. Port.	✓							
b. Starboard.	✓							
3. Headlights. (Para. 11-32)								
a. Port.	✓							
b. Starboard.						✓		wire cut
c. Headlight Guards.	✓							
4. Bow Plane. (Para. 10-14)								
a. Hinges and Mounting Hardware. (Para. 10-17)	✓							
b. Bow Plane. (Para. 10-17)	✓							
c. Hydraulic Tubes and Fittings. (Para. 10-16)	✓							
d. Pivot Actuator. (Para. 10-18)	✓							
5. Hull Port Side. Check for damage and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)		✓						(M) 1 plate below TC hatch, 1 loose plate near driver hatch
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
6. Port Track Shroud. Check for loose mounting hardware and damage. (Para. 16-28)			✓					loose ^{bolt} toward rear
7. Port Final Drive. (Para. 7-18)								
a. Outer Housing.	✓							
b. Bolts.	✓							
8. Port Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)								
9. Port Sprockets. (Para. 7-16)								
a. Inner.	✓							
b. Outer.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
10. Port Track. (Para. 7-7) Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.			✓					
11. Port Road Wheels and Hubs. (Para. 7-12) Circle those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level. 1 2 3 4 5 6	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
12. Port Support Arms. (Para. 7-13) Circle those numbers which are unserviceable. ① 2 3 4 5 6			✓					Torsion bar cap missing
13. Port Torsion Bars. (Para. 7-13) Circle those numbers which are unserviceable.								
a. Torsion Bars. 1 2 3 4 5 6	✓							
b. Retaining Screws. 1 2 3 4 5 6	✓							
14. Port Shock Absorbers. (Para. 7-11)								
a. No. 1 Shock.	✓							
b. No. 2 Shock.			✓					Loose support arm, no cap
c. No. 3 Shock.	✓							
d. No. 4 Shock.	✓							
e. Mounting Hardware.	✓							
15. Port Front Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
16. Port Dual Support Roller. (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
17. Port Rear Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
18. Port Slap Guard. (Para. 7-10) Check for wear and loose mounting hardware.			✓					① 1 bolt on fwd final slap guard
19. Port Idler Wheel and Hub. (Para. 7-9)								
a. Idler.	✓							
b. Outer Wheel.	✓							
c. Inner Wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
20. Port Track Tension Adjuster. (Para. 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.						✓		Major pitting on machined surface
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
21. Port Anode. (Para. 8-54) Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
22. Port Midships Bearing. (Para. 9-18) Check for signs of leaks.	✓							
23. Drive Shaft. (Para. 9-17) Check for signs of damage.	✓							
24. Footman Loop. (Para. 8-50) Check for weld cracks.	✓							
25. Port Handrails. (Table 3-1) Check for weld cracks.	✓							
26. Port Cargo Hatch Supports. (Para. 8-26)								
a. Forward Support.	✓							
b. Aft Support.	✓							
27. Fuel Tank Pressure Relief Valve (Para. 12-18) and Outlet Cover (Para. 12-12). Check cover and mounting screws for damage. Check relief opens.	✓							
28. Check fuel filter cap. (Para. 12-9)					✓			① chain

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
29. Stowage Brackets. Check for weld cracks.	✓							
30. Bilge Pump Outlets.								
a. Hydraulic Pump Outlet. (Para. 8-47)	✓							
b. Electric Pump Outlet. (Para. 8-46)	✓							
31. Personnel Heater Exhaust Outlet. (Para. 14-14)								
a. Outlet Cap.					✓			Broken cap screw
b. Outlet Adapter.					✓			
32. Exterior Fire Extinguisher Pull Handle. (Para. 15-13)								
a. Handle.	✓							
b. Wire Seal.	✓							
33. External Fuel Tank Drain. Check plug for tightness and leaks. (Para. 12-18)	✓							
34. Port Deflector. (Para. 9-21) Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
35. Port Reverse Flow Duct. Check for damage and tight mounting hardware. (Para. 9-20)	✓							
36. Port Propulsion Unit. (Para. 9-20) Check unit for damage and mounting hardware for tightness. Rotate driveshaft to check for free movement of impeller.	✓							
II. Outside of Vehicle (Aft and Starboard)								
1. Taillights.	✓							
a. Port Taillight. (Para. 11-53)	✓							
b. Starboard Taillight. (Para. 11-59)	✓							
c. Taillight Guards.	✓							
2. Horn. (Para. 11-54) Check for loose mounting hardware, corrosion, and proper electrical connections.	✓							
3. Tow Cable Stowage Brackets. (Para. 8-27) Check for cracked or bent brackets.	✓							
4. Towing Pintle. (Para. 8-41) Check for loose mounting hardware. Check pintle for free rotation and proper quick-release operation.			✓					Ⓜ snap rings
5. Ramp Plugs. (Para. 8-27) Check for tightness.	✓							
6. Ramp Hinges and Towing Eyes. (Para. 8-27) Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Vision Block and Guard. (Para. 8-30)								
a. Vision Block Guard.	✓							
b. Vision Block.	✓							
8. Personnel Hatch. (Para. 8-31)								
a. Personnel Hatch Handle (inner and outer).	✓							
b. Personnel Hatch Seal.	✓							
c. Hook and Damper.	✓							
d. Mounting Hardware.	✓							
9. Starboard Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage. (Para. 9-20)	✓							
10. Trailer Receptacle.								
a. Cover.	✓							
b. Retainer Chain.	✓							
11. Starboard Reverse Flow Duct. Check for damage and tight mounting hardware. (Para. 9-20)	✓							
12. Starboard Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate drive shaft to check for free movement of impeller. (Para. 9-20)	✓							
13. Drive Shaft. Check for signs of damage.	✓							
14. Footman Loop. Check for weld cracks.	✓							
15. Starboard Idler Wheel and Hub. (Para. 7-9)								
a. Idler.	✓							
b. Outer wheel.	✓							
c. Inner wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
16. Starboard Track Tension Adjuster. (Para. 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.			✓					Rust on machined surface
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
17. Starboard Anode. Check for tightness of mounting screw. Make sure there is no paint on anode. (Para. 8-54)	✓							
18. Starboard Midships Bearing. Check for signs of leaks. (Para. 9-18)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable. (Para. 7-12)								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level.	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
20. Starboard Support Arms. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
22. Starboard Shock Absorbers. (Para. 7-11)								
a. No. 1 Shock			✓					lower cap is mangled
b. No. 2 Shock	✓							
c. No. 3 Shock					✓			Failed bushing at support arm connection UPPER mount loose
d. No. 4 Shock			✓					NO CAP, loose lower cap mounting bolt
e. Mounting Hardware.	✓							
23. Starboard Front Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
24. Starboard Dual Support Roller. (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
25. Starboard Rear Single Support Roller. (Para. 7-14)	✓							
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
26. Starboard Slap Guard. Check for wear and loose mounting hardware. (Para. 7-10)	✓							
27. Starboard Track. Use track wear gage to measure wear. Mark each unserviceable track shoe. (Para. 7-7)								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
28. Starboard Sprocket Rings. (Para. 7-16)								
a. Inner.	✓							
b. Outer.	✓							
29. Starboard Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)	✓							
30. Starboard Final Drive. (Para. 7-18)								
a. Outer Housing.	✓							
b. Bolts.	✓							
31. Starboard Side Pontoon. Remove drain plug and check for water. (Para. 8-44)	✓							
32. Starboard Track Shroud. Check for loose mounting hardware and damage. (Para. 8-34)					✓			2 snapped bolts
33. Starboard Bilge Pump Outlets. (Para. 8-46)								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
34. Stowage Brackets. Check for weld cracks.	✓							
35. Heater Exhaust Outlet. Check for loose mounting hardware and damage.						✓		cover bolt snapped
36. Starboard Cargo Hatch Supports. (Para. 8-26)								
a. Forward Support.	✓							
b. Aft Support.					✓			hook latch
c. Hand Rails.	✓							
37. Footman Loop. Check for weld cracks. (Para. 8-50).	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
38. Starboard Side Hull. Check for damaged and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)			✓					1 plate loose below turret
b. Steps. (Para. 16-29)			✓					2 steps
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
III. Bottom of Vehicle								
1. Hull. Check bottom of vehicle for damage.	✓							
2. Drain Plugs. Check for missing, tight, or damaged plugs.								
a. Hull. (Para. 8-42)	✓							
b. Ramp. (Para. 8-27)	✓							
c. Contact Cooler. (Para. 8-43)	✓							
IV. Outside of Vehicle (Topside)								
1. Hand Rail (forward). Check for weld cracks or other damage.	✓							
2. Mooring Cleats/Lifting Fixtures. Check for damage. (Para. 8-34)	✗							
a. Forward (port and starboard).	✓							
b. Aft (port and starboard).	✓							
3. Intake Grille.								
NOTE Make sure intake grille is secured properly in raised position. (Para. 8-13)								
a. Screen.	✓							
b. Brace Rod.	✓							
c. Cam Lock Handles/Stop Screws.			✓					2 stop screws
d. Torsion Bar Assembly. (Para. 8-17)	✓							
e. Mounting Hardware.	✓							
f. Seal.	✓							
4. Ventilator-Aspirator. Check that valve works properly and inlet screen is clean and not damaged. (Para. 8-18)	✓							
5. Radiator Cover and Cap. Check ballistic cover for damage and radiator cap for proper sealing. (Para. 8-19)					✓			COVER pin missing spring, washer, cotter pin.

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Center Plate. Check sealing surface for tight fit and retaining screws for tightness.			✓					(V) 2 mounting bolts
7. Exhaust Grille. (Para. 8-14)								
NOTE Make sure that exhaust grille is secured properly in raised position.								
a. Screen.	✓							
b. Seal.	✓							
c. Brace Rod.	✓							
d. Lugs (dogs).	✓							
e. Mounting Hardware.	✓							
8. Plenum Indicators. (Para. 8-16)								
a. Intake.	✓							
b. Exhaust.	✓							
9. Searchlight Mount and Receptacle. Check for damage.					✓			(P) receptacle cover & chain
10. Driver's Hatch. (Para. 8-21)								
a. Cover and Hinges.	X		✓					ground wire cut
b. Torsion Bar.	X		✓					low torsion
c. Latches (open and closed).	✓							
d. Seals and Pads.						✓		pads destroyed
e. Vision Blocks.	✓							
f. DVE Adapter Assembly.	✓							
11. Periscope and Support. Check periscope for breaks and chips and support for damage. (Para. 8-24)						✓		periscope cracked
12. Commander's Hatch. (Para. 8-23)								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
13. External Exhaust system. Check the external muffler, muffler guard, for damage and operation. (TM 8F152B-25&P/C)								
a. Muffler.	✓							
b. Guard.						✓		damaged
c. Pipes/Clamp.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
14. Ventilation Exhaust Outlet. Check ballistic cover for damage and tight retaining screws. Check screen for damage.	✓							
15. Overhead Protection Kit (OPK).								
a. OPK Tiles.			✓					11 bolts, 1 plate uninstalled
b. Torsion Bar Assist Mechanism (TBAM) Cover.	✓							
c. TBAM.	✓							
d. Bosses.	✓							
16. Cargo Hatches.	✓							
a. Covers and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals.	✓							
17. Antenna Mounts.								
a. Receiving Mount.	✓							
b. Port Sending Mount.	✓							
c. Starboard Sending Mount.	✓							
d. PLRS Antenna Mount.	✓							
e. DACT Antenna Mount.	✓							
18. Sea Tow Quick-Release. Check assembly for damage and proper operation.	✓							
V. Engine Compartment (Forward)								
1. Forward Bulkhead, Bow Pod Access Cover, and Bow Pod.								
NOTE Make sure intake grille is properly secured in raised position.								
a. Bow Plane Velocity Fuse Valves.	✓							
b. Bow Pod Access Cover.			✓					4 bolts
c. TACNAV sensor.	✓							
2. Intake Plenum Actuating Cylinder.								
a. Cylinder.	✓							
b. Hydraulic Hoses.	✓							
3. Cam Roller Lock. Check condition of each latch roller.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
4. Cooling Fan.								
a. Guard.	✓	✓						(M) belt guard
b. Shroud.	✓							
c. Fan.	✓							
d. Bearings.	✓							
e. Belt Adjustment.	✓							
f. Seals.	✓							
g. Fan Cartridge Bearing.	✓							
h. Drain Tube.	✓							
5. Surge Tank.								
a. Tank.	✓							
b. Valve.	✓							
c. Hose and Tubes.	✓							
d. Mounting Hardware.	✓							
6. Crew Ventilation.								
a. Ducts, Clamps, and Hoses.	✓							
b. Drain Tube.		✓						
7. Control Linkages.								
a. Brake Linkage.	✓							
b. Steering Linkage.			✓					eyelet bolt loose
c. Throttle Linkage.	✓							
d. Brake Flood Control Valve Linkage.								
NOTE Make sure flood valve spindle moves freely.	✓							
e. Engine Compartment Exhaust Fan Linkage.	✓							
8. Transmission Mounts. Check mounts for loose mounting hardware. Check transmission guide and guide rollers for damage.	✓							
9. Electrical Wiring and Connections.								
a. Bulk Head Connectors.	✓							
b. Power Plant Wiring.	✓							
c. Crew Vent Fan.	✓							
d. Electrical Bilge Pump.		✓						@ bilge tube port
10. Hydrostatic Steering Disconnect Lever. Check lever for correct operation, damage, and wear. Check for leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
11. Port Final Drive.								
a. Oil/Oil Level.	✓		✓					Oil cloudy
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
d. Speedometer Adapter/Cable.	✓							
12. Port U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
13. Port Hydraulic Bilge Pump. Check for oil leaks, loose mounting hardware, damaged screen, and debris.	✓							
14. Bilge Pump Bypass Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connections.	✓							
15. Plenum Solenoid Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connection.	✓							
16. Bow Plane Hydraulic tubes. Hoses and Fittings. Check for leaks, loose fittings and loose mounting hardware.	✓							
17. Fuel Manifold. Check for fuel leaks and loose mounting hardware.	✓							
18. Forward Engine Compartment Fire Extinguisher Discharge Nozzle. Check for damage and debris.	✓							
19. Port Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
20. Port Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
21. Starboard Final Drive.								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
22. Starboard U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
23. Starboard Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
24. Starboard Electrical Bilge Pump. Check screen for debris and damage. Check mounting hardware for tightness.		✓						Oil bilge tube

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
25. Precleaner. Check cleaner for damage, loose mounting hardware, and loose clamps. Check screen for damage and debris.	✓							
26. Crew Ventilation Fan. Check mounting hardware for looseness. Check ducts and clamps for damage and tightness.	✓							
27. Starboard Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
28. Starboard Right Angle Drive Shaft. Check condition of shaft coupling for damage. Check coupling bolts for tightness and proper safety wire.	✓							
29. Fan Drive Shaft. Check shaft and coupling for damage or wear. Check safety wire for damage.	✓							
30. Fuel Filter.	✓							
a. Fuel Leaks.	✓							
b. Drain Cock/Contamination.	✓							
c. Electrical Leads/Transducer.	✓							
d. Mounting Hardware/Air Valve.	✓							
31. Power Takeoff Unit.	✓							
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Electrical leads/Connections.	✓							
32. Starter. Check that starter is mounted properly. Check electrical leads and connections for damage and proper connections.	✓							
33. Transmission Oil Cooler. Check for oil and water leaks. Check electrical leads and connections for damage. Check oil lines, hoses, and clamps for tightness.	✓							
34. Exhaust Manifold (starboard side). Check for cracks, holes, and corrosion. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
35. Transmission. Check for overall cleanliness and damage.								
a. Leaks.	✓							
b. Torque converter to engine mounting screw for tightness.	✓							
c. Range selector valve for leaks and safety wire.	✓							
d. Oil Leaks.	✓							
e. Left and right brake and steer sections for leaks and loose mounting bolts.	✓							
f. Check brakes for proper adjustment.	✓							
g. Check transmission drain line for leaks, damage, and loose drain plug.	✓							
VI. Engine Compartment (Aft)								
1. Exhaust Plenum. Check actuating cylinder and oil lines for leaks. Check condition of plenum seal.	✓							
2. Components Bolted on to the Engine. Check for tight mounting hardware, proper electrical connections, damaged hoses and electrical leads, and leaks.								
a. Turbocharger.	✓							
b. PT Pump.	✓							
c. Exhaust Manifold (port side).	✓							
d. Engine Oil Cooler.	✓							
e. Engine Oil Filter.	✓							
f. Intake Manifold.	✓							
g. Smoke Generation Components.	✓							
h. Cold Start Components.	✓							
i. Crankcase Breathers.	✓							
3. Transmission Oil Filter.								
a. Mounting Hardware.	✓							
b. Leaks.	✓							
c. Check Electrical Connections.	✓							
4. Engine Oil Level. Check for correct level and signs of contamination. Check dipstick for damage.	✓							
5. Transmission Oil Level. Check for correct level and signs of contamination. Check fill tube and dipstick for damage.	✓							
6. Tachometer Drive Shaft. Check for adapter and cable damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Radiator. Check for radiator damage. Check for water leaks on radiator and coolant tubes.	✓							
8. Exhaust System. Check condition of insulation. Check for loose mounting hardware and damaged scavenging system check valve and for leaks.			✓					Bellows tube wmp fasteners fallen off Y-collector strbrd clamp cracked
9. Engine Compartment Exhaust Duct. Check for cracks or other damage. Check mounting hardware and clamps for tightness. Check tubes for proper mounting.	✓							
10. Engine. Check overall condition of engine for cleanliness and fuel, coolant, and oil leaks.	✓							
11. Generator.								
a. Bracket and Hardware.	✓							
b. Pulley and Belt.	✓							
c. Adjustment.	✓							
d. Voltage Regulator	✓							
12. Water Pump. Check for leaks.								
a. Pump.	✓							
b. Hoses and Tubes.	✓							
c. Belt and Adjustment.	✓							
13. Fire Extinguisher Discharge Nozzle. Check for damage, debris, and condition of safety wire.					✓			Safety wire not installed correctly
14. Engine Oil Heat Exchanger. Check mounting hardware for tightness. Check for oil leaks. Check electrical leads for damage and tight connections.	✓							
15. Cold Start Disconnect Lever. Check for proper operation, damage, and corrosion.	✓							
16. Hydraulic Reservoir.								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Oil Level.	✓							
d. Dipstick for damage.	✓							

NOMENCLATURE/LOCATION								Remarks MUST be Included if unserviceable.
	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	
VII. Troop Compartment								
<p align="center">NOTE</p> <p>Before inspecting troop compartment, open cargo hatches. Sound horn and lower ramp.</p>								
1. Engine Compartment Access Covers (aft). Check all thumbscrews and clamps for damage and operation. Check covers for correct mating and damage.								
a. Aft Upper.						✓		Bottom right is Bent and splitting
b. Aft Center.			✓					(M) 3 bolts
c. Aft Lower.						✓		Bottom right Broken
d. Port Upper.	✓		✓					no rubber seal
e. Port Lower.			✓					rubber seal falling off
f. Smoke Generation.		✓						Door is missing from panel
2. Smoke Generation Fuel Control Valve. Check to see if valve operates freely. Check for any damaged components and leaks.	✓							
3. Engine Compartment Fire Extinguisher.								
a. Bottle and Tag.	✓							
b. Control Valve.	✓							
c. Clamps.	✓							
4. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
5. Coolant Bypass Tube. Check to see if tube is mounted properly in retaining brackets.		✓						
6. Air Cleaner Compartment.								
a. Access Door.	✓							
b. Retaining Brackets.			✓					(M) 12 bolts
c. Element.	✓							
d. Compartment.	✓							
7. Right Angle Drive Access Cover. Rotate weapon station to gain access to cover. Check cover for proper mating and damage.	✓							
8. Starboard Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	✓							
9. Starboard Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
10. Fuel Tank Drains. Check both valves for proper operation. Check fuel lines and fittings for leaks. Check manual shutoff valves to make sure the handle rotates freely.	✓							
a. Internal Fuel Tank Drain.	✓							
b. External Fuel Tank Drain.	✓							
c. Fuel Lines and Fittings.	✓							
d. Manual Shutoff Valve.	✓							
11. Fuel Tank.								
a. Electrical Leads.	✓							
b. Leaks.	✓							
c. Retaining Straps.	✓							
d. Breather Cap.	✓							
12. Troop Seats.								
a. Hinges.					✓			stuck missing hinge pins
b. Supports.	✓							
c. Seat Pans.	✓							
d. Cushions.	✓							
e. Safety Belts/Straps.	✓							
f. Adjusting Rods.	✓							
13. Interior Stowage.								
a. MG Cleaning Rod Bracket.	✓							
b. Rifle Brackets.	✓							
c. Water Can Supports.	✓							
d. Seat Stowage Supports.	✓							
e. DVE Container.		✓						✓ Aft door
f. Portable Fire Extinguisher Bracket.	✓							
g. Pamphlet Stowage Rack.	✓							
h. Ammo Box Bracket.	✓							
i. Hand Oiler Bracket.	✓							
j. Tool Box Stowage Support.	✓							
14. Power Distribution Box. Check to see if box is securely mounted. Check all electrical connections for tightness. Check cover for tight screws. Check slave output power switch for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
15. Batteries.								
a. Battery Box Cover.	✓							
b. Holddowns.	✓							
c. Cables and Terminals.	✓							
d. Battery and Terminal Posts.	✓							
e. Battery Box Drains.	✓							
f. Battery Instruction Plate.	✓							
16. Radio Guards. Check guards for damage and loose or missing mounting hardware.	✓							
17. Deflector Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.								
a. Port			✓					6 bolts
b. Starboard.			✓					6 bolts
18. Water Steer System Components.								
a. Water-Jet Deflector Position Sensing Module (port and starboard).	✓							
b. Water-Jet Deflector Servo Module (port and starboard).	✓							
c. Water-Jet Deflector Solenoid Module (port and starboard).	✓							
d. Actuator Cylinders Port and Starboard.	✓							
e. Actuator Bracket Port and Starboard.	✓							
19. AFSSS Electrical Components.								
a. Sensors/Control Box.	✓							
b. Cables.	✓							
c. Test AFSSS using the test set (Item 4, Table 11-1) (Para. 11-70)	✓							
20. Dome Lights. Check mounting hardware for tightness. Check for broken or cracked lens and knobs. With master switch ON, check lights for proper operation.					✓			Aft dome light wrap
21. Aft Slave Receptacle. Check cover and chain for damage. Check insert for corrosion and damage. Check electrical lead for damage and loose connections. Check mounting hardware for tightness.	✓							
22. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
23. Ramp Lock Linkage. Check to see that linkage does not bind. Check for bent or warped linkage rods.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
24. Ramp. With ramp lowered, check ramp seal for breaks and spongy condition.								
a. Ramp Seal. Check mating with hull in closed position.	✓							
b. Vision Block Cover.	✓							
c. Skid Bars	✓							
d. Quick-Release (Visual Only).	✓							
e. Tow Pintle Release.	✓							
25. Deck Plates.								
a. Deck Plates (port and starboard).	✓							
b. Center Deck Plate.			✓					6 bolts
c. Contact Cooler Bleeder Valve Access Cover.	✓							
d. Bilge Pump Access Cover (port and starboard).	✓	✓						Hydrol cover
e. Tiedown Rings.	✓							
NOTE Remove troop compartment deck plates before continuing.								
26. Contact Cooler. Check that bleeder valve is not frozen. Check for signs of leaks.	✓							
27. Torsion Bars. Check torsion bars for damage.	✓							
28. Ramp Cylinder and Cable.	✓							
29. Hydraulic Bilge Pump.								
a. Bilge Pump.	✓							
b. Outlet tube.	✓							
30. Electric Bilge Pump.								
a. Electric Pump.	✓							
b. Outlet Tube.	✓							
31. Bilges. Check for cleanliness and obvious signs of damage.								
a. Brackets and Mounting Hardware.	✓							
b. Discharge Tubs and Nozzles.	✓							
32. Fire Extinguisher (17 lb).								
a. Mounting Hardware.	✓							
b. Discharge Tub and Seal.	✓							
c. Tag Date.	✓							
d. Seal.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
33. Personnel Heater.	✓							
a. Mounts.	✓				✓			
b. Exhaust System and Cover.	✓							Cover snapped off
c. Electrical Wiring and Switches.	✓							
d. Fuel System.	✓							
e. Heater Ducts.	✓							
34. Port Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.								
35. Port Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
36. Radio Mounts.	✓							
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
37. EPLRS Rack.	✓							
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
VIII. Driver's and Commander's Station								
1. Access Covers.								
a. Hydrostatic Steer Disconnect Lever.	✓							
b. Final Drive U-Joint.	✓		✓					hatch stuck
c. Hydraulic Reservoir.	✓							
2. Flapper Valve. Check spring tension flapper. Check mounting screws for tightness and damage to flapper.	✓							
3. Fire Extinguisher (7 lb). Check mounting bracket and hardware for tightness. Check tag for date bottle was last weighed. Check wire seat on control head.								
a. Bracket and Mounting Hardware.	✓							
b. Tag/Date.	✓							
c. Wire Seal.	✓							
4. Ramp Lock Handle. Check handle and lock for damage and proper operation.	✓							
5. Ramp Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.			✓					Ramp will not raise

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
6. Fire Extinguisher Discharge Handle. Check handle for damage and unbroken wire seal.	✓							
7. Power Train Switch. Move lever and check for binding. Check bail for damage.			✓					
8. Mode Selector Switch. Check for missing or damaged toggle switch.	✓							
9. Handle Throttle. Move throttle and check for proper operation. Check linkage and cover for damage.				✓				need adjustment
10. Gear Selector. Check console for loose mounting hardware for damage. Check movement of selector through all gear range.	✓							
11. Air Cleaner Restrictor Indicator. Check for proper mounting to bulkhead. Check indicator for damage.	✓							
12. Auxiliary Instrument Panel. Check panel for loose mounting hardware. Check that gages are securely mounted in panel, and that hose connections are tight.	✓							
13. Accelerator Pedal.								
a. Mounting Hardware/Brackets.	✓							
b. Pedal and Pedal Stop Screw.	✓							
c. Water Drive Switch.	✓							
14. Brake Pedal. Apply and release brakes to check binding.	✓							
15. Parking Brake Handle. Check for proper operation. Make sure that parking brake holds and releases properly.	✓							
16. Steering Wheel. Check wheel for damage. Check operation of wheel tilt. Check for binding linkage. Check steering wheel sensing module for loose mounting hardware or damaged wiring.								
a. Steering Wheel.	✓							
b. Steering Wheel Sensing Module.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
17. Indicator Panel. Check mounting hardware and grommets for tightness and damage. Check for loose or damaged switches, lights, and buttons.								
a. Master Switch.	✓							
b. Lamp Test/Warning Cancel Switch.	✓							
c. Horn Button.	✓							
d. Panel Lights Brt/Dim Switch.	✓							
e. Cold Start Switch.	✓							
f. Starter Button.	✓							
g. Light Switch.	✓							
h. TACNAV Indicator.	✓							
i. Tachometer.	✓							
j. Speedometer.	✓							
k. Smoke Generation Indicator Light.	✓							
l. Smoke Generation Switch.	✓							
m. Forward Electric Bilge Pump Switch.	✓							
n. Aft Electric Bilge Pump Switch.	✓							
o. Aft Electric Bilge Pump Indicator Light.	✓							
p. Forward Electric Bilge Pump Indicator Light.	✓							
q. Aft Hydraulic Bilge Pump Indicator Light.	✓							
r. Forward Hydraulic Bilge Pump Indicator Light.	✓							
s. Ventilation Switch.	✓		✓					Vent fan is running without track running.
18. Driver's Display Unit. Check for cracked glass and moisture. Check that unit is securely mounted in indicator panel.								
NOTE Bar scales and warning lights will be checked during the operational portion of preinduction.	✓							
19. Bow Plane Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							
20. Vent Air Outlets. Check driver's and commander's outlets for breaks and cracks. Check to see if outlet rotates freely. Check mounting hardware for tightness.								
a. Driver's Outlet.	✓							
b. Commander's Outlet.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
21. Vent Air Hoses, Tubes, and Duct. Check for loose clamps and mounting hardware. Check for damaged hoses, tubes, and duct.	✓							
22. Bilge Outlet Tube. Check tube for damage, hoses for cracks, and clamps for tightness.	✓							
23. Instrument Distribution Box. Check that box is securely mounted, and that cover screws are tight. Check all wiring harness connectors for tightness.			✓					2 6/175
24. Forward Slave Receptacle on Instrument Distribution Box. Check cover and chain for damage. Check receptacle for corrosion and damage.					✓			cover and chain
25. Searchlight Switch. Check for damage and operation.	✓							
26. Ventilation Air Outlet Valve. Check for loose mounting hardware and damaged cable and handle with ball. Open and close outlet and check for binding linkage.			✓					linkage binds
27. Data Plates. Check for damage.	✓							
28. Manual Fuel Shutoff Handle. Check shaft for damage and grommets for wear. Rotate handle to check for free operation.			✓					Frozen
29. Driver's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
30. Troop Commander's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	✓							
31. Interior Decals and Instruction Plates. Check to see that they are readable.	✓							
32. Fire Extinguishers (MFSS and AFSSS).								
NOTE At this time all fire suppression system bottles are to be pulled and weighed.								
a. Mounting Hardware.	✓							
b. Discharge Tube and Seal.	✓							
c. Tag Date.	✓							
d. Seal.	✓							
33. Drive Shaft Guards. Check guards for damage and mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
IX. Equipment Operation								
1. Start vehicle, check operation of the following:								
a. Master Switch.	✓							
b. Horn.	✓							
c. Fuel Level Indicator.	✓							
d. Battery Generator Indicator.	✓							
e. Electric Bilge Pumps (forward and aft).	✓							
f. Panel Lights (brt/dim).	✓							
g. Display Panel Warning Lights.	✓							
h. Vent Switch Low Position.	✓							
2. Perform Diagnostic Test Equipment checks in accordance with TM 09674A-25&P/4, (See worksheet at the end of this Appendix).								
3. Vehicle Stall Check. With brakes locked, and gear selector in 4th gear, accelerate fully and check the following:								
a. Brakes.	✓							
b. Transmission.	✓							
c. Engine. RPM.	✓							2500
d. TACNAV Indicator. Check that system powers and display works.	✓							
4. Lights. Check that lights work properly.								
a. Light Switch.	✓							
b. Service Drive.	✓							
c. Dimmer Switch.	✓							
d. Blackout Markers.	✓							
e. Stop Light.	✓							
f. Park.	✓							
g. Searchlight.	✓							
h. Interior Dome Lights.			✓					Int dome light in op
5. Driver's Viewer Enhancer (DVE). Check that power system works.	✓							
6. Lamp Test/Warning Cancel Switch. Check audio signal with proper comm helmet.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
X. Functional Road Test								
1. Steering. Check operation and drift.	✓							
2. Gear Ranges. Check for slippage and that lockup works properly.	✓							
3. Smoke Generation. Check for correct operation.	✓							
4. Brakes. Check to see if brakes pull to one side or the other.	✓							
5. Speedometer. Check for correct operation.	✓							
6. Noises. Check for any unusual noises.	✓							
XI. Water Systems Test								
1. Plenums. Check that plenums close completely. Fan shuts off. (Para. 8-13)	✓							
2. Check if hydraulic bilge pumps operation.	✓							
3. Check if electric bilge pumps operate.	✓							
4. Check that jet drive activates at 1000 to 1200 RPM.	✓							
5. Bow Plane Operation.								
a. Control Valve. Check for proper operation and leaks.	✓							
b. Bow Plane. Check that it fully extends and retracts.	✓							
c. Pivot Actuator. Check for leaks, unusual noise and smooth operation.	✓							

NOTE

See TM 10004A-25&P/2 for LTI of UGWS Unique Items.
 See TM 07267B-25&P/4 for LTI of AAVR7A1 Unique Items.
 See TM 07268B-25&P/2 for LTI of AAVC7A1 Unique Items.

ENCLOSURE (50)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
3. Traverse Switch Assembly								
a. Box cover secure to basket weldment.		✓	✓					loose
b. Electrical connector tight and in good condition.	✓							
4. M36E-TSS Periscope								
a. Mounting Screws. Check screws for security. Check sight is secure to turret weldment.	✓							
b. Sight. Check for moisture in window and in mirror. Check condition of glass.	✓							
c. Sight Eyepieces. Check for moisture, condition of reticles, condition of eye-piece pads, and proper operation.	✓							
d. Latch Assembly. Check that latch moves freely, and has spring tension.	✓							
e. Hanger Strap. Check for serviceability.	✓							
f. Head Assembly. Check nuts on head assembly for tightness.	✓							
g. Body Assembly. Check mounting hardware for security and that safety wire is present.	✓							
h. Bore-sight Knobs - Azimuth and Elevation. Check setting on both knobs and record. Turn each knob, check for smooth movement and shift of sight reticle. Reposition knobs to original settings.	✓							
i. Sight Power Electrical Connectors. Check that electrical connectors are in good condition.	✓							
j. Check for cracks, dents, burns and chipped paint on housing.	✓							
k. Check that valve cap is tight and retaining strap is not broken or missing.	✓							
l. Check that both knobs on elbow assembly move freely from LO to HI position.	✓							
m. Check that lamp holder is tight and packing is installed.	✓							
n. Check that plug or shutter switch is present. If missing, notify supervisor.	✓							
o. Check that all bore-sight knobs move freely, and scales can be easily read.	✓							
p. Check ID plate for damage and if it can be easily read. If plate cannot be read, notify supervisor.	✓							
q. Check that shutter switch will not move to ON without pushing safety button first.	✓							
r. Check that valve cap strap is not damaged or missing.	✓							
s. Check that all screws are tight on mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
5. Exhaust Blower. Check for corrosion and debris. Make sure electrical connectors are tight and in good shape. Check operation of blower door.			✓					inop
6. .50 Caliber Ammo Ejection Chute. Check for condition and security. Ensure that chute is clear of debris.								
a. Check ejection-chute hose for security and condition.			✓					needs clamp
b. Spent-Cartridge Box. Check security and condition. Check operation of latches.	✓							
7. Equilibrator. Check for corrosion, security and adjustment.	✓							
8. .50 Caliber Ammo Feed System.								
a. Check security and condition of .50 caliber ammo trays.	✓							
b. Check security and condition of roller guides.	✓							
9. 40mm Ammo Feed System.								
a. Feed Chute. Check for dents, corrosion and/or damage.	✓							
b. Check feed-chute cover for tears, holes; zipper must move freely. Check attachment points for security and condition.	✓							
c. Check anti-feedback lever for condition and security.	✓							
10. 40mm Ammo Box Assembly.								
a. Check security and condition of box, doors, and flaps.	✓							
b. Check operation of latches.	✓							
c. Check that electrical connector on last-round switch is tight and in good condition.	✓							
11. 40mm Charger Assembly. Check condition and security of charger tube.	✓							
12. 40mm Mandrel.								
a. Check condition and security.		✓						(M) cover
b. Check operation of cover latches.	✓							
13. .50 Caliber Mandrel and Cradle. Check condition and security. Check for damage, cracked welds and bare metal.	✓							
14. Power-Assist Traverse Mechanism. Check for security condition and leakage. Make sure that electrical connectors are tight and in good condition.			✓					Electrical traverse inop
15. Elevation Control Assembly. Check for security and condition.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
16. Gunner's Trigger Switch. Check for security and condition. Check that electrical connectors are tight and in good condition.			✓					inop
17. Linkage. Check for security and condition.	✓							
18. Grenade Launcher Inhibit Switch. Check for security and condition. Check that electrical connector is tight and in good condition.	✓							
19. Elevation Interrupter Switches. Check for condition and security. Check that electrical connectors are tight and in good condition.	✓							
20. Utility Light. Check that light and electrical connector is secure and in good condition.			✓					inop
21. Communications Box.								
a. Check that electrical connector is tight and in good condition.			✓					not mounted
b. Check for security and condition.	✓							
22. Weapons Station. Inspect for damage, security and clarity.								
a. Vision Blocks. Inspect for damage, security and clarity.			✓					1 cracked
b. Ring Gear. Inspect for damage and corrosion. Should be clean and no grease.	✓							
23. Hatch.								
a. Seal, Hatch, Hinges. Inspect for damage, loose hardware and proper operation.	✓							
b. Hatch Latch Check. It should lock the hatch closed, hatch vertical to turret and hatch horizontally open in three positions (15 degrees, 90 degrees and 175 degrees).	✓							
c. Hatch Handle. Check security, condition and proper operation.	✓							
d. Crash Pads. Inspect pads on hatch and weapons station for security and condition.		✓						Ⓜ
24. DAGR.								
a. Check that electrical and antenna connections are tight and in good condition.			✓					
b. Check for security and condition.			✓					

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
III. Weapons Station Exterior								
1. Receptacle, Spot Light. Inspect for corrosion and damage. Check that cover fits securely and is tight.	✓							
2. Mount, Spot Light. Inspect condition and security.	✓							
3. Smoke Grenade Launchers								
a. Tubes. Inspect sight tubes for dents, cracks or corrosion, and security to mounts. Check security of mount to turret.	✓							
b. Electrical Contacts. Check that contacts are tight and free of corrosion.	✓							
c. Rubber Caps. Check sight caps for condition.	✓							
4. Entrance Window. Inspect condition and security. Look for signs of moisture.	✓							
5. Sight Cover. Inspect condition and security.	✓							
6. 40mm Mantlet Cover. Check for security and condition. Check operation of latches.		✓						(a)
7. Remote Antenna. Check security and condition of cover.	✓							
IV. Functional Tests								
1. Manual Operation. Check for weapons station binding and backlash								
a. Azimuth. Check movement through 360 degree clockwise and counter-clockwise.	✓							
b. Elevation. Check for +45 degree maximum elevation and -8 degree maximum depression.	✓							
2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.								
a. Control Box Lights. Check that control box lamps light when turret power switch is ON by pressing lamp test alt button.	✓							
b. Domelight. Lights in both blue and white switch positions	✓							
c. Tally Light. Lights in both red and white			✓					inop
d. Thermal FIB. Check and ensure the correct alignment and in op status.	✓							
e. Spot Light. Install and check operation.	✓							
f. Exhaust Blower. Check operation.			✓					inop

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
3. Low Ammo System Test.								
a. Last-Round Switch OFF. Last-round indicator light on, triggers do not work.	✓				✓			trigger inop
b. Last-Round Switch ON. Last-round indicator lamp light ON, override switch in up position, triggers work.					✓			trigger inop
c. Last-Round Switch OFF. Last-round indicator light OFF, override switch down, triggers work.					✓			trigger inop
4. Weapons Station System. Perform test as prescribed in Section 3.								
a. Manual Elevation. Check operation.	✓							
b. Deck Clearance. Check clearance of all obstacles. Check all inhibit zones. Weapons electrical trigger will not fire while in inhibit zones.	✓							
5. Smoke Grenade Launcher Test.								
a. Tubes. Check that they are clear of grenades.	✓							
b. Contacts. Check for 24 volts at eight firing pins inside of tubes on smoke grenade launchers. Turret power switches ON, smoke grenade switch ON, hatch in closed and locked position and grenade firing switch depressed.	✓							
6. DAGR Operational Test. Refer to TM 11-5820-1172-13.								
a. Check that DAGR passes self-test		✓						
b. Check that DAGR is using vehicle power.		✓						
c. Check that DAGR is using remote antenna.		✓						
d. Check functioning of DAGR screen back lighting		✓						

TAMCN	NOMEN	NSN	SERIAL#	QTY	Condition Code	SR#	SR Status	T/P (\$)	REMARKS
E08467K	PINTLE ASSEMBLY, TOW	01-193-2117	522499	1	R	29871696	SHT PART	\$1,255.41	
E08467K	O-RING	00-580-4394	522499	1	R	29871696	SHT PART	\$0.26	
E08467K	O-RING	00-641-3407	522499	1	R	29871696	SHT PART	\$0.35	
E08467K	WASHER, KEY	00-162-0386	522499	1	R	29871696	SHT PART	\$4.22	
E08467K	NUT, PLAIN, HEXAGON	00-761-6872	522499	1	R	29871696	SHT PART	\$15.85	
E08467K	BATTERY, STORAGE	01-485-1472	522499	2	R	29871696	SHT PART	\$731.78	
E08467K	CABLE ASSEMBLY, R	01-226-2442	522499	6	R	29871696	SHT PART	\$285.00	
E08467K	CABLE ASSEMBLY, R	01-301-0834	522499	6	R	29871696	SHT PART	\$318.84	
E08467K	COLLET, SPECIAL	01-435-8079	522499	10	R	29871696	SHT PART	\$41.60	

ENCLOSURE (50)

LIMITED TECHNICAL INSPECTION

DATE: 20200413

PURPOSE OF LTI: SLT

RESPONSIBLE UNIT: 3D AABN

NOMENCLATURE: AAV P7A1

SERVICE REQUEST: 29940796

SET SERIAL: 522 768

TAMN: E08467K NSN: 2350-01-458-7410

[illegible]

DEFECT CODES: S - SERVICABLE U - UNSERVICABLE M - MISSING

SL-3 COMPLETE: YES / NO ☒

MODS VERIFIED: YES/ NO

LAST PMCS DATE: 20200318

COMMENTS: LIGHT EXTENSION, QTY 1, 00-086-4293, FIXTURE ASSEMBLY, QTY 1, 00-7083799, SPOUT CAN FLEXIBLE, QTY 1, 00-177-6154

CONDITION CODE: A

LTI BY PRINT/SIG

(b)(3), (b)(6), (b)(7)(c)

.TI BY PRINT/SIG

(b)(3), (b)(6), (b)(7)(c)

DATE: 20200913

ENCLOSURE (51)

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION	
MODEL (CIRCLE ONE)	REFERENCES
AAVP7A1	TM 09674A-25&P/4 TM 8F152B-25&P
AAVC7A1	TM 07267B-50
AAVR7A1	TM 07268B-25&P/2
TAC NO. 3-11-05	MILES 360
U.S.M.C. NO. 522768	HOURS 1643
HULL NO. RAM-V-358	
ENGINE NO. 37221347	
TRANSMISSION NO. 2004233	
INSPECTOR'S NAME/RANK/SIGNATURE	DATE INSPECTED
(b)(3), (b)(6), (b)(7)(c)	20200314
<p>the column which best describes the condition of the item being inspected. For those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column.</p>	

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
I. Outside of Vehicle (Forward and Port)								
1. Hull Forward End. Check for damage and bare metal.	✓							
2. Towing Eyes. (Para. 8-33)								
a. Port.	✓							
b. Starboard.	✓							
3. Headlights. (Para. 11-32)								
a. Port.	✓							
b. Starboard.	✓							
c. Headlight Guards.	✓							
4. Bow Plane. (Para. 10-14)								
a. Hinges and Mounting Hardware. (Para. 10-17)	✓							
b. Bow Plane. (Para. 10-17)	✓							
c. Hydraulic Tubes and Fittings. (Para. 10-16)	✓							
d. Pivot Actuator. (Para. 10-18)	✓							
5. Hull Port Side. Check for damage and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)	✓							
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
6. Port Track Shroud. Check for loose mounting hardware and damage. (Para. 16-28)			✓					Ⓜ 2 bolts
7. Port Final Drive. (Para. 7-18)								
a. Outer Housing.	✓		✓					45° rounded, 90° needs repair
b. Bolts.	✓							
8. Port Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)								
9. Port Sprockets. (Para. 7-16)								
a. Inner.	✓							
b. Outer.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
11. Port Track (Para. 7-7) Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
12. Port Road Wheels and Hubs (Para. 7-12) Circle those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level. 1 2 3 4 5 6	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
13. Port Support Arms (Para. 7-13) Circle those numbers which are unserviceable.	✓							
14. Port Torsion Bars (Para. 7-13) Circle those numbers which are unserviceable.								
a. Torsion Bars. 1 2 3 4 5 6	✓							
b. Retaining Screws. 1 2 3 4 5 6	✓							
15. Port Shock Absorbers (Para. 7-11)								
a. No. 1 Shock.	✓							
b. No. 2 Shock.	✓							
c. No. 3 Shock.	✓							
d. No. 4 Shock.			✓					rustee
e. Mounting Hardware.	✓							
16. Port Front Single Support Roller (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.			✓					
d. Mounting Hardware.	✓							

ENCLOSURE (S1)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
17. Port Dual Support Roller (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
18. Port Rear Single Support Roller (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
19. Port Slap Guard (Para. 7-10) Check for wear and loose mounting hardware.	✓							
20. Port Idler Wheel and Hub (Para. 7-9)								
a. Idler.	✓							
b. Outer Wheel.	✓							
c. Inner Wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
21. Port Track Tension Adjuster (Para. 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
22. Port Anode (Para. 8-53) Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
23. Port Midships Bearing (Para. 9-18) Check for signs of leaks.	✓							
24. Drive Shaft (Para. 9-17) Check for signs of damage.	✓							
25. Footman Loop (Para.) Check for weld cracks.	✓							
26. Port Handrails (Para.) Check for weld cracks.	✓							
27. Port Cargo Hatch Supports (Para.)								
a. Forward Support.	✓							
b. Aft Support.	✓							
28. Fuel Tank Pressure Relief Valve and Outlet Cover (Para.) Check cover and mounting screws for damage. Check relief opens.	✓							
29. Check fuel filter cap (Para.)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
30. Stowage Brackets. Check for weld cracks.	✓							
31. Bilge Pump Outlets								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
32. Personnel Heater Exhaust Outlet								
a. Outlet Cap.	✓							
b. Outlet Adapter.	✓							
33. Exterior Fire Extinguisher Pull Handle								
a. Handle.	✓							
b. Wire Seal.	✓							
34. External Fuel Tank Drain. Check plug for tightness and leaks.	✓							
35. Port Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
36. Port Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
37. Fuel Tank Pressure Relief Valve Outlet Cover. Check cover and mounting screws for damage.	✓							
38. Port Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate driveshaft to check for free movement of impeller.	✓							
II. Outside of Vehicle (Aft and Starboard)								
1. Taillights								
a. Port Taillight.	✓							
b. Starboard Taillight.	✓							
c. Taillight Guards.	✓							
2. Horn. Check for loose mounting hardware, corrosion, and proper electrical connections.	✓							
3. Tow Cable Stowage Brackets. Check for cracked or bent brackets.	✓							
4. Towing Pintle. Check for loose mounting hardware. Check pintle for free rotation and proper quick-release operation.	✓							
5. Ramp Plugs. Check for tightness.	✓							
6. Ramp Hinges and Towing Eyes. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
7. Vision Block and Guard.								
a. Vision Block Guard.	✓							
b. Vision Block.	✓							
8. Personnel Hatch.								
a. Personnel Hatch Handle (inner and outer).	✓							
b. Personnel Hatch Seal.	✓							
c. Hook and Damper.	✓							
d. Mounting Hardware.	✓							
9. Starboard Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
10. Trailer Receptacle.								
a. Cover.	✓							
b. Retainer Chain.	✓							
11. Starboard Reverse Flow Duct. Check for damage and tight mounting hardware.	✓							
12. Starboard Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate drive shaft to check for free movement of impeller.	✓							
13. Drive Shaft. Check for signs of damage.	✓							
14. Footman Loop. Check for weld cracks.	✓							
15. Starboard Idler Wheel and Hub.								
a. Idler.	✓							
b. Outer wheel.	✓							
c. Inner wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
16. Starboard Track Tension Adjuster.								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
17. Starboard Anode. Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
18. Starboard Midships Bearing. Check for signs of leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level.	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
20. Starboard Support Arms. Circle those numbers which are unserviceable. 1 2 3 4 5 6	2							
21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
22. Starboard Shock Absorbers.								
a. No. 1 Shock	✓							
b. No. 2 Shock	✓							
c. No. 3 Shock	✓							
d. No. 4 Shock	✓							
e. Mounting Hardware.	✓							
23. Starboard Front Single Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
24. Starboard Dual Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
25. Starboard Rear Single Support Roller.								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

ENCLOSURE (51)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
26. Starboard Slap Guard. Check for wear and loose mounting hardware.	✓							
27. Starboard Track. Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.	✓							
28. Starboard Sprocket Rings.								
a. Inner.	✓							
b. Outer.	✓							
29. Starboard Sprocket Carrier. Check for loose mounting hardware and damage.	✓							
30. Starboard Final Drive.								
a. Outer Housing.			✓					45° (Banded)
b. Bolts.	✓							
31. Starboard Side Pontoon. Remove drain plug and check for water.	✓							
32. Starboard Track Shroud. Check for loose mounting hardware and damage.		✓						(M) 7 bolts
33. Starboard Bilge Pump Outlets.								
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
34. Stowage Brackets. Check for weld cracks.	✓							
35. Heater Exhaust Outlet. Check for loose mounting hardware and damage.	✓							
36. Starboard Cargo Hatch Supports.								
a. Forward Support.	✓							
b. Aft Support.	✓							
c. Hand Rails.	✓							
37. Footman Loop. Check for weld cracks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
38. Starboard Side Hull. Check for damaged and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-69a)	✓							
b. Steps. (Para. 16-72)	✓							
c. Slope Rack Kit (SRK). (Para. 16-73)	✓							
d. Stowage provisions. (Para. 16-81)	✓							
e. Fairings. (Para. 16-71)	✓							
f. Standoff Brackets. (Para. 16-70)	✓							
g. Hull Bosses. (Para. 16-80)	✓							
III. Bottom of Vehicle								
1. Hull. Check bottom of vehicle for damage.	✓							
2. Drain Plugs. Check for missing, tight, or damaged plugs.								
a. Hull.	✓							
b. Ramp.	✓							
c. Contact Cooler.	✓							
IV. Outside of Vehicle (Topside)								
1. Hand Rail (forward). Check for weld cracks or other damage.	✓							
2. Mooring Cleats/Lifting Fixtures. Check for damage. (Para. 8-34)								
a. Forward (port and starboard).	✓							
b. Aft (port and starboard).	✓							
3. Intake Grille.								
NOTE Make sure intake grille is secured properly in raised position.								
a. Screen.	✓							
b. Brace Rod.	✓							
c. Cam Lock Handles Stop Screws.	✓							
d. Torsion Bar Assembly. (Para. 8-17)	✓							
e. Mounting Hardware.	✓							
f. Seal.	✓							
4. Ventilator-Aspirator. Check that valve works properly and inlet screen is clean and not damaged. (Para. 8-18)	✓							
5. Exhaustor Cover and Cap. Check exhaustor cover for damage and make sure cap is properly sealed. (Para. 8-19)	✓							

ENCLOSURE (51)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Center Plate. Check sealing surface for tight fit and retaining screws for tightness.	✓							
7. Exhaust Grille. (Para. 8-14)								
NOTE Make sure that exhaust grille is secured properly in raised position.								
a. Screen.	✓							
b. Seal.	✓							
c. Brace Rod.	✓							
d. Lugs (dogs).	✓							
e. Mounting Hardware.	✓							
8. Plenum Indicators.								
a. Intake.	✓							
b. Exhaust.	✓							
9. Searchlight Mount and Receptacle. Check for damage.	✓							
10. Driver's Hatch.								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.								Pads damaged
e. Vision Blocks.	✓							
f. DVE Adapter Assembly.	✓							
11. Periscope and Support. Check periscope for breaks and chips and support for damage.	✓							
12. Commander's Hatch.								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
13. External Exhaust system. Check the external muffler, muffler guard, for damage and operation.								
a. Muffler.	✓							
b. Guard.	✓							
c. Pipes Clamp.	✓							

NOMENCLATURE LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
14. Ventilation Exhaust Outlet. Check ballistic cover for damage and tight retaining screws. Check screen for damage.	✓							
15. Overhead Protection Kit (OPK).								
a. OPK Tiles.	✓							
b. Torsion Bar Assist Mechanism (TBAM) Cover.	✓							
c. TBAM.	✓							
d. Bosses.	✓							
16. Cargo Hatches.								
a. Covers and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals.	✓							
17. Antenna Mounts.								
a. Receiving Mount.	✓							
b. Port Sending Mount.	✓							
c. Starboard Sending Mount.	✓							
d. PLRS Antenna Mount.	✓							
e. DACT Antenna Mount.	✓							
18. Sea Tow Quick-Release. Check assembly for damage and proper operation.	✓							
V. Engine Compartment (Forward)								
1. Forward Bulkhead, Bow Pod Access Cover, and Bow Pod.								
NOTE Make sure intake grille is properly secured in raised position.								
a. Bow Plane Velocity Fuse Valves.	✓							
b. Bow Pod Access Cover.	✓							
c. TACNAV sensor.	✓							
2. Intake Plenum Actuating Cylinder.								
a. Cylinder.	✓							
b. Hydraulic Hoses.	✓							
3. Cam Roller Lock. Check condition of each latch roller.	✓							

NOMENCLATURE, LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
4. Cooling Fan								
a. Guard.	✓							
b. Shroud.	✓							
c. Fan.	✓							
d. Bearings.	✓							
e. Belt Adjustment.						✓		Belt luffered. @ Belt guard
f. Seals.	✓							
g. Fan Cartridge Bearing.	✓							
h. Drain Tube.	✓							
5. Surge Tank								
a. Tank.	✓							
b. Valve.	✓							
c. Hose and Tubes.	✓							
d. Mounting Hardware.	✓							
6. Crew Ventilation								
a. Ducts, Clamps, and Hoses.	✓							
b. Drain Tube.	✓							
7. Control Linkages.								
a. Brake Linkage.	✓							
b. Steering Linkage.	✓							
c. Throttle Linkage.	✓							
d. Brake Flood Control Valve Linkage.	✓							
NOTE								
Make sure flood valve spindle moves freely.								
e. Engine Compartment Exhaust Fan Linkage.								
8. Transmission Mounts. Check mounts for loose mounting hardware. Check transmission guide and guide rollers for damage.	✓							
9. Electrical Wiring and Connections.								
a. Bulk Head Connectors.	✓							
b. Power Plant Wiring.	✓							
c. Crew Vent Fan.	✓							
d. Electrical Bilge Pump.			✓					not connected to bilge tube
10. Hydrostatic Steering Disconnect Lever. Check lever for correct operation, damage, and wear. Check for leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
11. Port Final Drive.								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
d. Speedometer Adapter/Cable.	✓							
12. Port U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
13. Port Hydraulic Bilge Pump. Check for oil leaks, loose mounting hardware, damaged screen, and debris.	✓							
14. Bilge Pump Bypass Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connections.	✓							
15. Plenum Solenoid Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connection.	✓							
16. Bow Plane Hydraulic tubes. Hoses and Fittings. Check for leaks, loose fittings and loose mounting hardware.	✓							
17. Fuel Manifold. Check for fuel leaks and loose mounting hardware.	✓							
18. Forward Engine Compartment Fire Extinguisher Discharge Nozzle. Check for damage and debris.								
19. Port Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
20. Port Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
21. Starboard Final Drive.								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
22. Starboard U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
23. Starboard Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
24. Starboard Electrical Bilge Pump. Check screen for debris and damage. Check mounting hardware for tightness.			✓					not connected to bilge pump

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
25. Precleaner. Check cleaner for damage, loose mounting hardware, and loose clamps. Check screen for damage and debris.	✓							
26. Crew Ventilation Fan. Check mounting hardware for looseness. Check ducts and clamps for damage and tightness.	✓							
27. Starboard Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
28. Starboard Right Angle Drive Shaft. Check condition of shaft coupling for damage. Check coupling bolts for tightness and proper safety wire.	✓							
29. Fan Drive Shaft. Check shaft and coupling for damage or wear. Check safety wire for damage.	✓							
30. Fuel Filter.								
a. Fuel Leaks.	✓							
b. Drain Cock/Contamination.	✓							
c. Electrical Leads/Transducer.	✓							
d. Mounting Hardware/Air Valve.	✓							
31. Power Takeoff Unit.								
a. Oil Leaks.	✓							
b. Mounting Hardware.	✓							
c. Electrical leads/Connections.	✓							
32. Starter. Check that starter is mounted properly. Check electrical leads and connections for damage and proper connections.	✓							
33. Transmission Oil Cooler. Check for oil and water leaks. Check electrical leads and connections for damage. Check oil lines, hoses, and clamps for tightness.	✓							
34. Exhaust Manifold (starboard side). Check for cracks, holes, and corrosion. Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
35. Transmission. Check for overall cleanliness and damage.	✓							
a. Leaks.	✓							
b. Torque converter to engine mounting screw for tightness.	✓							
c. Range selector valve for leaks and safety wire.	✓							
d. Oil Leaks.	✓							
e. Left and right brake and steer sections for leaks and loose mounting bolts.	✓							
f. Check brakes for proper adjustment.	✓							
g. Check transmission drain line for leaks, damage, and loose drain plug.	✓							
VI. Engine Compartment (Aft)								
1. Exhaust Plenum. Check actuating cylinder and oil lines for leaks. Check condition of plenum seal.	✓							
2. Components Bolted on to the Engine. Check for tight mounting hardware, proper electrical connections, damaged hoses and electrical leads, and leaks.								Pin Engine
a. Turbocharger.	✓							
b. PT Pump.	✓							
c. Exhaust Manifold (port side).	✓							
d. Engine Oil Cooler.	✓							
e. Engine Oil Filter.	✓							
f. Intake Manifold.	✓							
g. Smoke Generation Components.	✓							
h. Cold Start Components.	✓							
i. Crankcase Breathers.	✓							
3. Transmission Oil Filter.								
a. Mounting Hardware.	✓							
b. Leaks.	✓							
c. Check Electrical Connections.	✓							
4. Engine Oil Level. Check for correct level and signs of contamination. Check dipstick for damage.	✓							
5. Transmission Oil Level. Check for correct level and signs of contamination. Check fill tube and dipstick for damage.	✓							
6. Transmission Drive Shaft. Check for damage and cable damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Radiator. Check for radiator damage. Check for water leaks on radiator and coolant tubes.	/							
8. Exhaust System. Check condition of insulation. Check for loose mounting hardware and damaged scavenging system check valve and for leaks.	/							
9. Engine Compartment Exhaust Duct. Check for cracks or other damage. Check mounting hardware and clamps for tightness. Check tubes for proper mounting.	/							
10. Engine. Check overall condition of engine for cleanliness and fuel, coolant, and oil leaks.	/							
11. Generator	/							
a. Bracket and Hardware.	/							
b. Pulley and Belt.	/							
c. Adjustment.	/							
d. Voltage Regulator	/							
12. Water Pump. Check for leaks.	/							
a. Pump.	/							
b. Hoses and Tubes.	/							
c. Belt and Adjustment.			/	/				long
13. Fire Extinguisher Discharge Nozzle. Check for damage, debris, and condition of safety wire.	/							
14. Engine Oil Heat Exchanger. Check mounting hardware for tightness. Check for oil leaks. Check electrical leads for damage and tight connections.	/							
15. Cold Start Disconnect Lever. Check for proper operation, damage, and corrosion.	/							
16. Hydraulic Reservoir	/							
a. Oil Leaks.	/							
b. Mounting Hardware.	/							
c. Oil Level.	/							
d. Dipstick for damage.	/							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
VII. Troop Compartment								
NOTE								
Before inspecting troop compartment, open cargo hatches. Sound horn and lower ramp.								
1. Engine Compartment Access Covers (aft). Check all thumbscrews and clamps for damage and operation. Check covers for correct mating and damage.								
a. Aft Upper.	/							
b. Aft Center.	/							
c. Aft Lower.	/							
d. Port Upper.	/							
e. Port Lower.	/							
f. Smoke Generation.	/							
2. Smoke Generation Fuel Control Valve. Check to see if valve operates freely. Check for any damaged components and leaks.	/							
3. Engine Compartment Fire Extinguisher.								
a. Bottle and Tag.	/							
b. Control Valve.	/							
c. Clamps.	/							
4. Troop Ventilation Outlets. Check for free movement and damaged louvers.	/							
5. Coolant Bypass Tube. Check to see if tube is mounted properly in retaining brackets.	/							
6. Air Cleaner Compartment.								
a. Access Door.	/							
b. Retaining Brackets.	/							
c. Element.	/							
d. Compartment.	/							
7. Right Angle Drive Access Cover. Rotate weapon station to gain access to cover. Check cover for proper mating and damage.	/							
8. Starboard Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	/							
Starboard Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety pins.	/							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
10. Fuel Tank Drains. Check both valves for proper operation. Check fuel lines and fittings for leaks. Check manual shutoff valves to make sure the handle rotates freely.								
a. Internal Fuel Tank Drain.	/							
b. External Fuel Tank Drain.	/							
c. Fuel Lines and Fittings.	/							
d. Manual Shutoff Valve.	/							
11. Fuel Tank.								
a. Electrical Leads.	/							
b. Leaks.	/							
c. Retaining Straps.	/							
d. Breather Cap.	/							
12. Troop Seats.								
a. Hinges.	/							
b. Supports.	/							
c. Seat Pans.	/							
d. Cushions.	/							
e. Safety Belts/Straps.	/							
f. Adjusting Rods.	/							
13. Interior Stowage.								
a. MG Cleaning Rod Bracket.	/							
b. Rifle Brackets.	/							
c. Water Can Supports.	/							
d. Seat Stowage Supports.	/							
e. DVE Container.	/							
f. Portable Fire Extinguisher Bracket.	/							
g. Pamphlet Stowage Rack.	/							
h. Ammo Box Bracket.	/							
i. Hand Oiler Bracket.	/							
j. Tool Box Stowage Support.	/							
14. Power Distribution Box. Check to see if box is securely mounted. Check all electrical connections for tightness. Check cover for tight screws. Check slave output power switch for damage.	/							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
15. Batteries								
a. Battery Box Cover.	/							
b. Holddowns.	/							
c. Cables and Terminals.	/							
d. Battery and Terminal Posts.	/							
e. Battery Box Drains.	/							
f. Battery Instruction Plate.	/							
16. Radio Guards. Check guards for damage and loose or missing mounting hardware.	/							
17. Deflector Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.								
a. Port	/							(10) Bolts
b. Starboard.	/							
18. Water Steer System Components								
a. Water-Jet Deflector Position Sensing Module (port and starboard).	/							
b. Water-Jet Deflector Servo Module (port and starboard).	/							
c. Water-Jet Deflector Solenoid Module (port and starboard).	/			/				
d. Actuator Cylinders Port and Starboard.	/							
e. Actuator Bracket Port and Starboard.	/							
19. AFSSS Electrical Components								
a. Sensors Control Box.	/							
b. Cables.	/							
20. Dome Lights. Check mounting hardware for tightness. Check for broken or cracked lens and knobs. With master switch ON, check lights for proper operation.	/							
21. Aft Slave Receptacle. Check cover and chain for damage. Check insert for corrosion and damage. Check electrical lead for damage and loose connections. Check mounting hardware for tightness.	/							
22. Troop Ventilation Outlets. Check for free movement and damaged louvers.	/							
23. Ramp Lock Linkage. Check to see that linkage does not bind. Check for bent or warped linkage rods.	/							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
24. Ramp. With ramp lowered, check ramp seal for breaks and spongy condition.								
a. Ramp Seal. Check mating with hull in closed position.	/							
b. Vision Block Cover.	/							
c. Skid Bars	/							
d. Quick-Release (Visual Only).	/							
e. Tow Pintle Release.	/							
25. Deck Plates								
a. Deck Plates (port and starboard).	/							
b. Center Deck Plate.	/							
c. Contact Cooler Bleeder Valve Access Cover.	/							
d. Bilge Pump Access Cover (port and starboard).	/							
e. Tiedown Rings.	/							
NOTE Remove troop compartment deck plates before continuing.			15					FREE Spins
26. Contact Cooler. Check that bleeder valve is not frozen. Check for signs of leaks.			/					FREE Spins
27. Torsion Bars. Check torsion bars for damage.	/							
28. Ramp Cylinder and Cable.	/							
29. Hydraulic Bilge Pump.								
a. Bilge Pump.	/							
b. Outlet tube.	/							
30. Electric Bilge Pump.								
a. Electric Pump.	/							
b. Outlet Tube.	/							
31. Bilges. Check for cleanliness and obvious signs of damage.								
a. Brackets and Mounting Hardware.	/							
b. Discharge Tubs and Nozzles.	/							
32. Fire Extinguisher (17 lb).								
a. Mounting Hardware.	/							
b. Discharge Tub and Seal.	/							
c. Tag Date.	/							
d. Seal.	/							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
33. Personnel Heater.								
a. Mounts.	✓							
b. Exhaust System and Cover.	✓							
c. Electrical Wiring and Switches.	✓							
d. Fuel System.	✓							
e. Heater Ducts.	✓							
34. Port Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.								
35. Port Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
36. Radio Mounts.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
37. EPLRS Rack.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.	✓							
c. Check Radio Cables.	✓							
VIII. Driver's and Commander's Station.								
1. Access Covers.								
a. Hydrostatic Steer Disconnect Lever.	✓							
b. Final Drive U-Joint.	✓							
c. Hydraulic Reservoir.	✓							
2. Flapper Valve. Check spring tension flapper. Check mounting screws for tightness and damage to flapper.	✓							
3. Fire Extinguisher (7 lb). Check mounting bracket and hardware for tightness. Check tag for date bottle was last weighed. Check wire seal on control head.								
a. Bracket and Mounting Hardware.	✓							
b. Tag Date.	✓							
c. Wire Seal.	✓							
4. Ramp Lock Handle. Check handle and lock for damage and proper operation.	✓							
5. Ramp Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
6. Fire Extinguisher Discharge Handle. Check handle for damage and unbroken wire seal.	✓							
7. Power Train Switch. Move lever and check for binding. Check bail for damage.	✓							
8. Mode Selector Switch. Check for missing or damaged toggle switch.	✓							
9. Handle Throttle. Move throttle and check for proper operation. Check linkage and cover for damage.	✓							
10. Gear Selector. Check console for loose mounting hardware for damage. Check movement of selector through all gear range.	✓							
11. Air Cleaner Restrictor Indicator. Check for proper mounting to bulkhead. Check indicator for damage.	✓							
12. Auxiliary Instrument Panel. Check panel for loose mounting hardware. Check that gages are securely mounted in panel, and that hose connections are tight.	✓							
13. Accelerator Pedal								
a. Mounting Hardware/Brackets.	✓							
b. Pedal and Pedal Stop Screw.	✓							
c. Water Drive Switch.	✓							
14. Brake Pedal. Apply and release brakes to check binding.	✓							
15. Parking Brake Handle. Check for proper operation. Make sure that parking brake holds and releases properly.	✓							
16. Steering Wheel. Check wheel for damage. Check operation of wheel tilt. Check for binding linkage. Check steering wheel sensing module for loose mounting hardware or damaged wiring.								
a. Steering Wheel.	✓							
b. Steering Wheel Sensing Module.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
17. Indicator Panel. Check mounting hardware and grommets for tightness and damage. Check for loose or damaged switches, lights, and buttons.								
a. Master Switch.	/							
b. Lamp Test/Warning Cancel Switch.	/							
c. Horn Button.	/							
d. Panel Lights Brt Dim Switch.	/							
e. Cold Start Switch.	/							
f. Starter Button.	/							
g. Light Switch.	/							
h. TACNAV Indicator.	/							
i. Tachometer.	/							
j. Speedometer.	/							
k. Smoke Generation Indicator Light.	/							
l. Smoke Generation Switch.	/							
m. Forward Electric Bilge Pump Switch.	/							
n. Aft Electric Bilge Pump Switch.	/							
o. Aft Electric Bilge Pump Indicator Light.	/							
p. Forward Electric Bilge Pump Indicator Light.	/							
q. Aft Hydraulic Bilge Pump Indicator Light.	/							
r. Forward Hydraulic Bilge Pump Indicator Light.	/							
s. Ventilation Switch.	/							
18. Driver's Display Unit. Check for cracked glass and moisture. Check that unit is securely mounted in indicator panel.	/							
NOTE Bar scales and warning lights will be checked during the operational portion of preinduction.								
19. Bow Plane Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	/							
20. Vent Air Outlets. Check driver's and commander's outlets for breaks and cracks. Check to see if outlet rotates freely. Check mounting hardware for tightness.								
a. Driver's Outlet.	/							
b. Commander's Outlet.	/							

ENCLOSURE (51)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
21. Vent Air Hoses, Tubes, and Duct. Check for loose clamps and mounting hardware. Check for damaged hoses, tubes, and duct.	/							
22. Bilge Outlet Tube. Check tube for damage, hoses for cracks, and clamps for tightness.	/							
23. Instrument Distribution Box. Check that box is securely mounted, and that cover screws are tight. Check all wiring harness connectors for tightness.	/							
24. Forward Slave Receptacle on Instrument Distribution Box. Check cover and chain for damage. Check receptacle for corrosion and damage.	/							
25. Searchlight Switch. Check for damage and operation.	/							
26. Ventilation Air Outlet Valve. Check for loose mounting hardware and damaged cable and handle with ball. Open and close outlet and check for binding linkage.	/							
27. Data Plates. Check for damage.	/							Dirty
28. Manual Fuel Shutoff Handle. Check shaft for damage and grommets for wear. Rotate handle to check for free operation.	/							
29. Driver's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	/		/					Bracket @ Rust
30. Troop Commander's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.	/							
31. Interior Decals and Instruction Plates. Check to see that they are readable.	/							
32. Fire Extinguishers (MFSS and AFSSS).								
NOTE At this time all fire suppression system bottles are to be pulled and weighed.								
a. Mounting Hardware.	/							
b. Discharge Tube and Seal.	/							
c. Tag Date.	/							
d. Seal.	/							
33. Drive Shaft Guards. Check guards for damage and mounting hardware for tightness.	/							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
IX. Equipment Operation:								
1. Start vehicle, check operation of the following:								
a. Master Switch.	✓							
b. Horn.	✓							
c. Fuel Level Indicator.	✓							
d. Battery Generator Indicator.	✓							
e. Electric Bilge Pumps (forward and aft).	✓							
f. Panel Lights (brt/dim).	✓							
g. Display Panel Warning Lights.	✓							
h. Vent Switch Low Position.	✓							
2. Perform Diagnostic Test Equipment checks in accordance with TM 09674A-25&P/4. (See worksheet at the end of this Appendix).	✓							
3. Vehicle Stall Check. With brakes locked, and gear selector in 4th gear, accelerate fully and check the following:								
a. Brakes.	✓							
b. Transmission.	✓							
c. Engine. RPM.	✓							2800
d. TACNAV Indicator. Check that system powers and display works.	✓							
4. Lights. Check that lights work properly.								
a. Light Switch.	✓							
b. Service Drive.	✓							
c. Dimmer Switch.	✓							
d. Blackout Markers.	✓							
e. Stop Light.	✓							
f. Park.	✓							
g. Searchlight.	✓							
h. Interior Dome Lights.	✓							
5. Driver's Mirror Enhancer (DME). Check that power system works.	✗		✓					Speedo adapter not connected
6. Lamp Test Warning Cancel System. Check and signal with proper column button.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
X. Functional Road Test								
1. Steering. Check operation and drift.	✓							
2. Gear Ranges. Check for slippage and that lockup works properly.	✓							
3. Smoke Generation. Check for correct operation.	✓							
4. Brakes. Check to see if brakes pull to one side or the other.	✓							
5. Speedometer. Check for correct operation.	✓							
6. Noises. Check for any unusual noises.	✓							
XI. Water Systems Test								
1. Plenums. Check that plenums close completely. Fan shuts off. (Para. 8-13)	✓							
2. Check if hydraulic bilge pumps operation.	✓							
3. Check if electric bilge pumps operate.	✓							
4. Check that jet drive activates at 1000 to 1200 RPM.	✓							
5. Bow Plane Operation.								
a. Control Valve. Check for proper operation and leaks.	✓							
b. Bow Plane. Check that it fully extends and retracts.	✓							
c. Pivot Actuator. Check for leaks, unusual noise and smooth operation.	✓							

NOTE

See TM 10004A-25&P 2 for LTI of UGWS Unique Items.
 See TM 07267B-25&P 4 for LTI of AAVR7A1 Unique Items.
 See TM 07268B-25&P 2 for LTI of AAVC7A1 Unique Items.

APPENDIX C

ASSAULT AMPHIBIOUS VEHICLE
UPGUNNED WEAPONS STATION (UGWS), AAVP7A1

LIMITED TECHNICAL INSPECTION

TAC No. 3-11-05USMC No. 527768Miles 360 Hours 1643

Date _____ Inspect _____

(b)(3), (b)(6), (b)(7)(c)

Inspect _____

(b)(3), (b)(6), (b)(7)(c)

20200413

*See Table C-1 for UGWS

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Basket Weldment								
1. Basket Weldment Clearance.	✓							
a. Area around sides of basket weldment clear of obstructions.	✓							
b. Area around 12 channel slip ring clear of obstructions.	✓							
2. 12 Channel Slip Ring.	✓							
a. Electrical connectors tight and in good condition.	✓							
b. Upper portion of 12-channel slip ring rotates freely.	✓							
c. Manual and electrical weapons station operation.	✓							
3. Power Relay Assembly.	✓							
a. Box secure to bottom of basket.	✓							
b. Electrical connectors tight and in good condition.	✓							
4. Basket Inspection	✓							
a. Seat belt secure, latch working properly, belt in good condition.	✓							
b. Stowed items do not overhang basket.	✓							
c. Seat in good condition, locks in all height positions, secure in basket assembly.	✓							
II. Weapons Station Interior								
1. Turret Power Control Assembly.	✓							
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							
2. Weapon Control Assembly.	✓							
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							

ENCLOSURE (51)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
3. Traverse Switch Assembly								
a. Box cover secure to basket weldment.	✓							
b. Electrical connector tight and in good condition.	✓							
4. M36B TSS Periscope								
a. Mounting Screws. Check screws for security. Check sight is secure to turret weldment.	✓							
b. Sight. Check for moisture in window and in mirror. Check condition of glass.	✓							
c. Sight Eyepieces. Check for moisture, condition of reticles, condition of eye-piece pads, and proper operation.	✓							
d. Latch Assembly. Check that latch moves freely, and has spring tension.	✓							
e. Hanger Strap. Check for serviceability.	✓							
f. Head Assembly. Check nuts on head assembly for tightness.	✓							
g. Body Assembly. Check mounting hardware for security and that safety wire is present.	✓							
h. Boresight Knobs - Azimuth and Elevation. Check setting on both knobs and record. Turn each knob, check for smooth movement and shift of sight reticle. Reposition knobs to original settings.	✓							
i. Sight Power Electrical Connectors. Check that electrical connectors are in good condition.	✓							
j. Check for cracks, dents, burns and chipped paint on housing.	✓							
k. Check that valve cap is tight and retaining strap is not broken or missing.	✓							
l. Check that both knobs on elbow assembly move freely from LO to HI position.	✓							
m. Check that lamp holder is tight and packing is installed.	✓							
n. Check that plug or shutter switch is present. If missing, notify supervisor.	✓							
o. Check that all boresight knobs move freely, and scales can be easily read.	✓							
p. Check ID plate for damage and if it can be easily read. If plate cannot be read, notify supervisor.	✓							
q. Check that shutter switch will not move to ON without pushing safety button first.	✓							
r. Check that valve cap strap is not damaged or missing.	✓							
s. Check that all screws are tight on mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
5. Exhaust Blower. Check for corrosion and debris. Make sure electrical connectors are tight and in good shape. Check operation of blower door.	✓							
6. .50 Caliber Ammo Ejection Chute. Check for condition and security. Ensure that chute is clear of debris.	✓							
a. Check ejection-chute hose for security and condition.	✓							
b. Spent-Cartridge Box. Check security and condition. Check operation of latches.	✓							
7. Equilibrator. Check for corrosion, security and adjustment.	✓							
8. .50 Caliber Ammo Feed System	✓							
a. Check security and condition of .50 caliber ammo trays.	✓							
b. Check security and condition of roller guides.	✓							
9. 40mm Ammo Feed System	✓							
a. Feed Chute. Check for dents, corrosion and/or damage.	✓							
b. Check feed-chute cover for tears, holes; zipper must move freely. Check attachment points for security and condition.	✓							
c. Check anti-feedback lever for condition and security.	✓							
10. 40mm Ammo Box Assembly	✓							
a. Check security and condition of box, doors, and flaps.	✓							
b. Check operation of latches.	✓							
c. Check that electrical connector on last-round switch is tight and in good condition.	✓							
11. 40mm Charger Assembly. Check condition and security of charger tube.	✓							
12. 40mm Mantlet	✓							
a. Check condition and security.	✓							
b. Check operation of cover latches.	✓							
13. .50 Caliber Mantlet and Cradle. Check condition and security. Check for damage, cracked welds and bare metal.	✓							
14. Power-Assist Traverse Mechanism. Check for security, condition and leakage. Make sure that electrical connectors are tight and in good condition.	✓							
15. Elevation Control Assembly. Check for security and condition.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
16. Gunner's Trigger Switch. Check for security and condition. Check that electrical connectors are tight and in good condition.	✓							
17. Linkage. Check for security and condition.	✓							
18. Grenade Launcher Inhibit Switch. Check for security and condition. Check that electrical connector is tight and in good condition.	✓							
19. Elevation Interrupter Switches. Check for condition and security. Check that electrical connectors are tight and in good condition.	✓							
20. Utility Light. Check that light and electrical connector is secure and in good condition.	✓							
21. Communications Box.								
a. Check that electrical connector is tight and in good condition.	✓							
b. Check for security and condition.	✓							
22. Weapons Station. Inspect for damage, security and clarity.								
a. Vision Blocks. Inspect for damage, security and clarity.	✓							
b. Ring Gear. Inspect for damage and corrosion. Should be clean and no grease.	✓							
23. Hatch.								
a. Seal, Hatch, Hinges. Inspect for damage, loose hardware and proper operation.	✓							
b. Hatch Latch Check. It should lock the hatch closed, hatch vertical to turret and hatch horizontally open in three positions (15 degrees, 90 degrees and 175 degrees).	✓							
c. Hatch Handle. Check security, condition and proper operation.	✓							
d. Crash Pads. Inspect pads on hatch and weapons station for security and condition.						✓		INOP
24. DAGR.								
a. Check that electrical and antenna connections are tight and in good condition.	✓							
b. Check for security and condition.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
III. Weapons Station Exterior.								
1. Receptacle, Spot Light. Inspect for corrosion and damage. Check that cover fits securely and is tight.	✓							
2. Mount, Spot Light. Inspect condition and security.	✓							
3. Smoke Grenade Launchers.								
a. Tubes. Inspect sight tubes for dents, cracks or corrosion, and security to mounts. Check security of mount to turret.	✓							
b. Electrical Contacts. Check that contacts are tight and free of corrosion.	✓							
c. Rubber Caps. Check sight caps for condition.	✓							
4. Entrance Window. Inspect condition and security. Look for signs of moisture.	✓							
5. Sight Cover. Inspect condition and security.	✓							
6. 40mm Mantlet Cover. Check for security and condition. Check operation of latches.	✓							
7. Remote Antenna. Check security and condition of cover.	✓							
IV. Functional Tests.								
1. Manual Operation. Check for weapons station binding and backlash.								
a. Azimuth. Check movement through 360 degree clockwise and counter-clockwise.	✓							
b. Elevation. Check for +45 degree maximum elevation and -8 degree maximum depression.	✓							
2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.								
a. Control Box Lights. Check that control box lamps light when turret power switch is ON by pressing lamp test all button.	✓							
b. Domelight. Lights in both blue and white switch positions.					✓			WHITE IN 20
c. Utility Light. Lights in both red and white.	✓							
d. Thermal Elbow Check Only. Ensure the unit shows an image and all controls work.	✓							
e. Spot Light. Install and check operation.	✓							
f. Exhaust Blower. Check operation.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
3. Low Ammo System Test								
a. Last-Round Switch OFF. Last-round indicator light on, triggers do not work.	/							
b. Last-Round Switch ON. Last-round indicator lamp light ON, override switch in up position, triggers work.	/							
c. Last-Round Switch OFF. Last-round indicator light OFF, override switch down, triggers work.	/							
4. Weapons Station System: Perform test as prescribed in Section 3.								
a. Manual Elevation. Check operation.	/							
b. Deck Clearance. Check clearance of all obstacles. Check all inhibit zones. Weapons electrical trigger will not fire while in inhibit zones.	/							
5. Smoke Grenade Launcher Test								
a. Tubes. Check that they are clear of grenades.	/							
b. Contacts. Check for 24 volts at eight firing pins inside of tubes on smoke grenade launchers. Turret power switches ON, smoke grenade switch ON, hatch in closed and locked position and grenade firing switch depressed.	/							
6. DAGR Operational Test. Refer to TM 11-5820-1172-13.								
a. Check that DAGR passes self-test.		/						
b. Check that DAGR is using vehicle power.		/						
c. Check that DAGR is using remote antenna.		/						
d. Check functioning of DAGR screen back lighting.		/						

522499					
#	NIIN	Nomenclature	Quantity	Unit Price	Ext Price
1	2376985	SCREWDRIVER,FLAT TI	1	\$8.60	\$8.60
2	13673462	SCREWDRIVER ATTACHM	1	\$3.59	\$3.59
3	13784933	SOCKET,SOCKET WRENC	1	\$31.25	\$31.25
4	13785543	SOCKET,SOCKET WRENC	1	\$10.26	\$10.26
5	1776154	SPOUT,CAN,FLEXIBLE	1	\$11.65	\$11.65
6	2289503	WRENCH,BOX AND OPEN	1	\$2.15	\$2.15
7	2289505	WRENCH,BOX AND OPEN	1	\$4.26	\$4.26
8	2289506	WRENCH,BOX AND OPEN	1	\$4.79	\$4.79
9	2289516	WRENCH,BOX AND OPEN	1	\$17.43	\$17.43
10	2306385	HANDLE,SOCKET WRENC	1	\$37.69	\$37.69
11	1897924	SOCKET,SOCKET WRENC	1	\$4.29	\$4.29
12	1897985	SOCKET,SOCKET WRENC	1	\$4.55	\$4.55
13	2405328	WRENCH,ADJUSTABLE	1	\$10.45	\$10.45
14	2401414	WRENCH,ADJUSTABLE	1	\$65.47	\$65.47
15	2243154	WRENCH,BOX	1	\$13.79	\$13.79
16	2243138	WRENCH,BOX	1	\$13.75	\$13.75
17	14810504	SCREW,MACHINE	2	\$0.20	\$0.40
18	2271406	FLAG,SIGNAL	1	\$3.21	\$3.21
19	11870964	SHACKLE	4	\$36.08	\$144.32
20	13616921	EXTINGUISHER,FIRE	1	\$129.91	\$129.91
21	13552064	BAR,PRY	1	\$9.95	\$9.95
22	2247987	BRUSH,FILE CLEANER	1	\$16.63	\$16.63
23	11740968	BRUSH,WIRE,SCRATCH	1	\$4.52	\$4.52
24	11955355	BRUSH,WIRE,SCRATCH	1	\$1.80	\$1.80
25	10758292	DRIFT PIN,TRACK	1	\$113.56	\$113.56
26	13551899	DRIVE HEAD,SOCKET W	1	\$35.24	\$35.24
27	13786054	EXTENSION,SOCKET WR	1	\$6.90	\$6.90
28	9266001	FLAG,SIGNAL	1	\$25.41	\$25.41
29	14863431	FLASHLIGHT	1	\$97.99	\$97.99
30	2648261	FLASHLIGHT	1	\$10.40	\$10.40
31	13785361	HANDLE,EXTENSION,WR	1	\$48.31	\$48.31
32	10711746	HOIST,WIRE ROPE	1	\$269.39	\$269.39
33	2211536	KNIFE,PUTTY	1	\$5.11	\$5.11
34	1558675	LAMP,INCANDESCENT	1	\$2.03	\$2.03
35	2532478	LUBRICATING GUN,HAN	1	\$11.15	\$11.15
36	2432395	MATTOCK	1	\$13.71	\$13.71
37	2558113	MEASURE,LIQUID	1	\$45.40	\$45.40
38	2628868	OILER,HAND	1	\$6.96	\$6.96
39	6821508	PADLOCK	1	\$7.18	\$7.18
40	14297306	PLIERS,DIAGONAL CUT	1	\$11.47	\$11.47
41	13351318	RATCHET HEAD,SOCKET	1	\$134.05	\$134.05
42	2348913	SCREWDRIVER,CROSS T	1	\$1.40	\$1.40
43	2348912	SCREWDRIVER,CROSS T	1	\$4.46	\$4.46
44	2228852	SCREWDRIVER,FLAT TI	1	\$3.84	\$3.84
	44				\$1,408.67

ENCLOSURE (SI)

MTB 3120.9A

1

TANDEM		NSN		SERIAL#		QTY		SL-3 Complete (Y/N)		SN#		SR Status		PRICE EACH		TOTAL		REMARKS	
EOB67K	2 - CAP, Protective, Dust And Moisture Seal, PN A3207525, 1 CAGE 80063	5340-01-381-5666	522678	4	N					29916826	A			\$13.19		\$52.76			
EOB67K	FIXTURE ASSEMBLY, Track Connecting: PN 7083799 CAGE 19207	5120-00-708-5799	522678	1	N					29916826	A			\$114.94		\$114.94			
EOB67K	KNIFE, PUTTY: PN 5120-00-221-1536 CAGE 80244	5120-00-221-1536	522678	1	N					29916826	A			\$5.11		\$5.11			
EOB67K	MEASURE, Liquid: PN 07472 CAGE 4N6U7	7240-00-255-6113	522678	1	N					29916826	A			\$40.01		\$40.01			
EOB67K	PAID LOCK, PN A-4-59487, 1BC CAGE 58536	5340-00-682-1508	522678	1	N					29916826	A			\$7.83		\$7.83			
EOB67K	SOCKET, Socket Wrench: 19/16 in., 3/4 in., 2 in. 1D1802 CAGE 55719	5120-01-378-4993	522678	1	N					29916826	A			\$1.25		\$91.25			
EOB67K	1 - 10MM H.E. Socket Wrench: 1/2 in. in. 1D1802 CAGE 55719	5120-00-221-2958	522678	1	N					29916826	A			\$11.67		\$11.67			
EOB67K	WRENCH, Adjustable: 8 in. in. 0.947 in. w/ surf. max: PN B107.8 TY1 CAGE 05047	5120-00-240-5328	522678	1	N					29916826	A			\$9.67		\$9.67			
EOB67K	WRENCH, Adjustable: 18 in. in. 2.062 w/ surf. PN B107.8 CAGE 05047	5120-00-240-1414	522678	1	N					29916826	A			\$65.11		\$65.11			
														TOTAL		\$338.35			

ENCLOSURE (51)

LIMITED TECHNICAL INSPECTION

DATE: 2020 0414

PURPOSE OF LTI: JLT

RESPONSIBLE UNIT: SD A&DN

NOI ENCLATURE: AAU P7A1

SERVICE REQUEST: 29747720

SET SERIAL: 527100

TAMN: E08467K

NSN: 2380-01-458-7410

[illegible]

DEFECT CODES: S - SERVICABLE U - UNSERVICABLE M - MISSING

SL-8 COMPLETE: YES / NO

MODS VERIFIED: YES / NO

LAST PMCS DATE: 2020 0218

COMMENTS:

CONDITION CODE: F

LTIBY PRINT/SIGI

(b)(3), (b)(6), (b)(7)(c)

____ LTI BY PRINT/SIGN:_____

(b)(3), (b)(6), (b)(7)(c)

DATE: 20200414

ENCLOSURE (5)

ASSAULT AMPHIBIOUS VEHICLE (AAV7A1) LIMITED TECHNICAL INSPECTION	
MODEL (CIRCLE ONE) <div style="border: 1px solid black; border-radius: 50%; padding: 2px; display: inline-block;">AAVP7A1</div> AAVC7A1 AAVR7A1	REFERENCES TM 09674A-25&P/4 TM 8F152B-25&P TM 07267B-50 TM 07268B-25&P/2
TAC NO. 3HG05	MILES 516
U.S.M.C. NO. 523100	HOURS 2864
HULL NO. RAM-Y-184	
ENGINE NO. 37185166	
TRANSMISSION NO. A5152E	
INSPECTOR'S NAME/RANK/SIGNATURE (b)(3), (b)(6), (b)(7)(c)	DATE INSPECTED 20200916
NOTE: The following inspection sheets are divided into seven columns. The inspector will place a <i>check</i> in the column which best describes the condition of the item being inspected. For those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column.	

ENCLOSURE (54)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
I. Outside of Vehicle (Forward and Port)								
1. Hull Forward End. Check for damage and bare metal.	✓							
2. Towing Eyes. (Para. 8-33)								
a. Port.	✓							
b. Starboard.	✓							
3. Headlights. (Para. 11-32)								
a. Port.	✓							
b. Starboard.	✓							
c. Headlight Guards.	✓							
4. Bow Plane. (Para. 10-14)								
a. Hinges and Mounting Hardware. (Para. 10-17)	✓							
b. Bow Plane. (Para. 10-17)	✓							
c. Hydraulic Tubes and Fittings. (Para. 10-16)	✓							
d. Pivot Actuator. (Para. 10-18)	✓							
5. Hull Port Side. Check for damage and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)	✓							
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
6. Port Track Shroud. Check for loose mounting hardware and damage. (Para. 16-28)	✓							
7. Port Final Drive. (Para. 7-18)								
a. Outer Housing.	✓							
b. Bolts.	✓							
8. Port Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)	✓							
9. Port Sprockets. (Para. 7-16)								
a. Inner.	✓							
b. Outer.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
10. Port Track. (Para. 7-7) Use track wear gage to measure wear. Mark each unserviceable track shoe.								
a. Track Shoes.	✓							
b. Track Pads.	✓							
c. Track Pins.	✓							
d. Track Wear.	✓							
e. Track Adjustment.				✓				
11. Port Road Wheels and Hubs. (Para. 7-12) Circle those numbers which are unserviceable.								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level. 1 2 3 4 5 6	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
12. Port Support Arms. (Para. 7-13) Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
13. Port Torsion Bars. (Para. 7-13) Circle those numbers which are unserviceable.								
a. Torsion Bars. 1 2 3 4 5 6	✓							
b. Retaining Screws. 1 2 3 4 5 6	✓							
14. Port Shock Absorbers. (Para. 7-11)								
a. No. 1 Shock.	✓							
b. No. 2 Shock.	✓							
c. No. 3 Shock.	✓							
d. No. 4 Shock.	✓							
e. Mounting Hardware.	✓							
15. Port Front Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
16. Port Dual Support Roller. (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
17. Port Rear Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
18. Port Slap Guard. (Para. 7-10) Check for wear and loose mounting hardware.	✓							
19. Port Idler Wheel and Hub. (Para. 7-9)								
a. Idler.	✓							
b. Outer Wheel.	✓							
c. Inner Wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
20. Port Track Tension Adjuster. (Para. 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
21. Port Anode. (Para. 8-54) Check for tightness of mounting screw. Make sure there is no paint on anode.	✓							
22. Port Midships Bearing. (Para. 9-18) Check for signs of leaks.	✓							
23. Drive Shaft. (Para. 9-17) Check for signs of damage.	✓							
24. Footman Loop. (Para. 8-50) Check for weld cracks.	✓							
25. Port Handrails. (Table 3-1) Check for weld cracks.	✓							
26. Port Cargo Hatch Supports. (Para. 8-26)								
a. Forward Support.	✓							
b. Aft Support.	✓							
27. Fuel Tank Pressure Relief Valve (Para. 12-18) and Outlet Cover (Para. 12-12). Check cover and mounting screws for damage. Check relief opens.	✓							
28. Check fuel filter cap. (Para. 12-9)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
29. Stowage Brackets. Check for weld cracks.	✓							
30. Bilge Pump Outlets.								
a. Hydraulic Pump Outlet. (Para. 8-47)	✓							
b. Electric Pump Outlet. (Para. 8-46)	✓							
31. Personnel Heater Exhaust Outlet. (Para. 14-14)								
a. Outlet Cap.	✓							
b. Outlet Adapter.	✓							
32. Exterior Fire Extinguisher Pull Handle. (Para. 15-13)								
a. Handle.	✓							
b. Wire Seal.	✓							
33. External Fuel Tank Drain. Check plug for tightness and leaks. (Para. 12-18)	✓							
34. Port Deflector. (Para. 9-21) Check for warping and cracks. Check mounting hardware for tightness and damage.	✓							
35. Port Reverse Flow Duct. Check for damage and tight mounting hardware. (Para. 9-20)	✓							
36. Port Propulsion Unit. (Para. 9-20) Check unit for damage and mounting hardware for tightness. Rotate driveshaft to check for free movement of impeller.	✓							
II. Outside of Vehicle (Aft and Starboard)								
1. Taillights.								
a. Port Taillight. (Para. 11-53)	✓							
b. Starboard Taillight. (Para. 11-59)	✓							
c. Taillight Guards.	✓							
2. Horn. (Para. 11-54) Check for loose mounting hardware, corrosion, and proper electrical connections.						✓		CONNECTOR BROKEN
3. Tow Cable Stowage Brackets. (Para. 8-27) Check for cracked or bent brackets.	✓							
4. Towing Pintle. (Para. 8-41) Check for loose mounting hardware. Check pintle for free rotation and proper quick-release operation.			✓					TIGHTEN CASE NUT
5. Ramp Plugs. (Para. 8-27) Check for tightness.	✓							
6. Ramp Hinges and Towing Eyes. (Para. 8-27) Check mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
7. Vision Block and Guard. (Para. 8-30)								
a. Vision Block Guard.	✓							
b. Vision Block.	✓							
8. Personnel Hatch. (Para. 8-31)								
a. Personnel Hatch Handle (inner and outer).	✓							
b. Personnel Hatch Seal.	✓							
c. Hook and Damper.	✓							
d. Mounting Hardware.	✓							
9. Starboard Deflector. Check for warping and cracks. Check mounting hardware for tightness and damage. (Para. 9-20)	✓							
10. Trailer Receptacle.								
a. Cover.		✓						
b. Retainer Chain.	✓	✓						
11. Starboard Reverse Flow Duct. Check for damage and tight mounting hardware. (Para. 9-20)	✓							
12. Starboard Propulsion Unit. Check unit for damage and mounting hardware for tightness. Rotate drive shaft to check for free movement of impeller. (Para. 9-20)	✓							
13. Drive Shaft. Check for signs of damage.			✓					NEEDS PM
14. Footman Loop. Check for weld cracks.	✓							
15. Starboard Idler Wheel and Hub. (Para. 7-9)								
a. Idler.	✓							
b. Outer wheel.	✓							
c. Inner wheel.	✓							
d. Mounting Hardware.	✓							
e. Oil Level.	✓							
16. Starboard Track Tension Adjuster. (Para. 7-8)								
a. Track Adjuster Support.	✓							
b. Track Adjuster.	✓							
c. Bleeder Valve.	✓							
d. Grease Fitting.	✓							
17. Starboard Anode. Check for tightness of mounting screw. Make sure there is no paint on anode. (Para. 8-54)	✓							
18. Starboard Midships Bearing. Check for signs of leaks. (Para. 9-18)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
19. Starboard Road Wheels and Hubs. Check those numbers which are unserviceable. (Para. 7-12)								
a. Road Wheel Cracks/Damage. 1 2 3 4 5 6	✓							
b. Road Wheel Wear Rings. 1 2 3 4 5 6	✓							
c. Hub Oil Leaks. 1 2 3 4 5 6	✓							
d. Hub Oil Level.	✓							
e. Mounting Hardware. 1 2 3 4 5 6	✓							
20. Starboard Support Arms. Circle those numbers which are unserviceable. 1 2 3 4 5 6	✓							
21. Starboard Torsion Bars. Check for broken bar and loose retaining screws. Circle those numbers which are unserviceable. 1 2 3 4 5 6	/							
22. Starboard Shock Absorbers. (Para. 7-11)								
a. No. 1 Shock	✓							
b. No. 2 Shock	✓							
c. No. 3 Shock	✓							
d. No. 4 Shock	✓							
e. Mounting Hardware.	✓							
23. Starboard Front Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
24. Starboard Dual Support Roller. (Para. 7-15)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							
25. Starboard Rear Single Support Roller. (Para. 7-14)								
a. Support Wheel Cracks/Damage.	✓							
b. Hub Oil Leaks.	✓							
c. Hub Oil Level.	✓							
d. Mounting Hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
26. Starboard Slap Guard. Check for wear and loose mounting hardware. (Para. 7-10)	/							
27. Starboard Track. Use track wear gage to measure wear. Mark each unserviceable track shoe. (Para. 7-7)	/							
a. Track Shoes.	/							
b. Track Pads.	/							
c. Track Pins.	/							
d. Track Wear.	/							
e. Track Adjustment.	✓							
28. Starboard Sprocket Rings. (Para. 7-16)	/							
a. Inner.	✓							
b. Outer.	✓							
29. Starboard Sprocket Carrier. Check for loose mounting hardware and damage. (Para. 7-16)	✓							
30. Starboard Final Drive. (Para. 7-18)	/							
a. Outer Housing.	/							
b. Bolts.	✓							
31. Starboard Side Pontoon. Remove drain plug and check for water. (Para. 8-44)	✓							
32. Starboard Track Shroud. Check for loose mounting hardware and damage. (Para. 8-34)	✓							
33. Starboard Bilge Pump Outlets. (Para. 8-46)	/							
a. Hydraulic Pump Outlet.	✓							
b. Electric Pump Outlet.	✓							
34. Stowage Brackets. Check for weld cracks.	✓							
35. Heater Exhaust Outlet. Check for loose mounting hardware and damage.	/							
36. Starboard Cargo Hatch Supports. (Para. 8-26)	/							
a. Forward Support.	✓							
b. Aft Support.	/							
c. Hand Rails.	/							
37. Footman Loop. Check for weld cracks. (Para. 8-50)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
38. Starboard Side Hull. Check for damaged and bare metal.								
a. Armor Piercing Protection Plates Kit (APK). (Para. 16-26a)	✓							
b. Steps. (Para. 16-29)	✓							
c. Slope Rack Kit (SRK). (Para. 8-49)	✓							
d. Stowage provisions. (Para. 16-37)	✓							
e. Fairings. (Para. 16-28)	✓							
f. Standoff Brackets. (Para. 16-27)	✓							
g. Hull Bosses. (Para. 16-36)	✓							
III. Bottom of Vehicle								
1. Hull. Check bottom of vehicle for damage.	✓							
2. Drain Plugs. Check for missing, tight, or damaged plugs.								
a. Hull. (Para. 8-42)	✓							
b. Ramp. (Para. 8-27)	✓							
c. Contact Cooler. (Para. 8-43)	✓							
IV. Outside of Vehicle (Topside)								
1. Hand Rail (forward). Check for weld cracks or other damage.	✓							
2. Mooring Cleats/Lifting Fixtures. Check for damage. (Para. 8-34)								
a. Forward (port and starboard).	✓							
b. Aft (port and starboard).	✓							
3. Intake Grille.								
NOTE Make sure intake grille is secured properly in raised position. (Para. 8-13)								
a. Screen.	✓							
b. Brace Rod.	✓							
c. Cam Lock Handles/Stop Screws.	✓							
d. Torsion Bar Assembly. (Para. 8-17)	✓							
e. Mounting Hardware.	✓							
f. Seal.	✓							
4. Ventilator-Aspirator. Check that valve works properly and inlet screen is clean and not damaged. (Para. 8-18)	✓							
5. Radiator Cover and Cap. Check ballistic cover for damage and radiator cap for proper sealing. (Para. 8-19)	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
6. Center Plate. Check sealing surface for tight fit and retaining screws for tightness.	✓							
7. Exhaust Grille. (Para. 8-14)								
NOTE Make sure that exhaust grille is secured properly in raised position.								
a. Screen.	✓							
b. Seal.	✓							
c. Brace Rod.	✓							
d. Lugs (dogs).	✓							
e. Mounting Hardware.	✓							
8. Plenum Indicators. (Para. 8-16)								
a. Intake.	✓							
b. Exhaust.	✓							
9. Searchlight Mount and Receptacle. Check for damage.	✓							
10. Driver's Hatch. (Para. 8-21)								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
f. DVE Adapter Assembly.	✓							
11. Periscope and Support. Check periscope for breaks and chips and support for damage. (Para. 8-24)	✓							
12. Commander's Hatch. (Para. 8-23)								
a. Cover and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals and Pads.	✓							
e. Vision Blocks.	✓							
13. External Exhaust system. Check the external muffler, muffler guard, for damage and operation. (TM 8F152B-25&P/C)								
a. Muffler.	✓							
b. Guard.	✓							
c. Pipes/Clamp.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
14. Ventilation Exhaust Outlet. Check ballistic cover for damage and tight retaining screws. Check screen for damage.	✓							
15. Overhead Protection Kit (OPK).								
a. OPK Tiles.			✓					(M) } BOLTS
b. Torsion Bar Assist Mechanism (TBAM) Cover.	✓							
c. TBAM.	✓							
d. Bosses.	✓							
16. Cargo Hatches.								
a. Covers and Hinges.	✓							
b. Torsion Bar.	✓							
c. Latches (open and closed).	✓							
d. Seals.	✓							
17. Antenna Mounts.								
a. Receiving Mount.	✓							
b. Port Sending Mount.	✓							
c. Starboard Sending Mount.	✓							
d. PLRS Antenna Mount.	✓							
e. DACT Antenna Mount.	✓							
18. Sea Tow Quick-Release. Check assembly for damage and proper operation.	✓							
V. Engine Compartment (Forward)								
1. Forward Bulkhead, Bow Pod Access Cover, and Bow Pod.								
NOTE Make sure intake grille is properly secured in raised position.								
a. Bow Plane Velocity Fuse Valves.	✓							
b. Bow Pod Access Cover.			✓					LOOSE BOLTS
c. TACNAV sensor.	✓							
2. Intake Plenum Actuating Cylinder.								
a. Cylinder.		✓						
b. Hydraulic Hoses.		✓						
3. Cam Roller Lock. Check condition of each latch roller.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
4. Cooling Fan.								
a. Guard.	✓							
b. Shroud.	✓							
c. Fan.	✓							
d. Bearings.	✓							
e. Belt Adjustment.	✓							
f. Seals.	✓							
g. Fan Cartridge Bearing.	✓							
h. Drain Tube.		✓						
5. Surge Tank.								
a. Tank.	✓							
b. Valve.	✓							
c. Hose and Tubes.	✓							
d. Mounting Hardware.	✓							
6. Crew Ventilation.								
a. Ducts, Clamps, and Hoses.	✓							
b. Drain Tube.		✓						
7. Control Linkages.								
a. Brake Linkage.	✓							
b. Steering Linkage.	✓							
c. Throttle Linkage.	✓							
d. Brake Flood Control Valve Linkage.	✓							
<p>NOTE Make sure flood valve spindle moves freely.</p>								
e. Engine Compartment Exhaust Fan Linkage.	✓							
8. Transmission Mounts. Check mounts for loose mounting hardware. Check transmission guide and guide rollers for damage.	✓							
9. Electrical Wiring and Connections.								
a. Bulk Head Connectors.	✓							
b. Power Plant Wiring.	✓							
c. Crew Vent Fan.	✓							
d. Electrical Bilge Pump.			✓					KNOCKING NOISE
10. Hydrostatic Steering Disconnect Lever. Check lever for correct operation, damage, and wear. Check for leaks.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
11. Port Final Drive.								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
d. Speedometer Adapter/Cable.	✓							
12. Port U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
13. Port Hydraulic Bilge Pump. Check for oil leaks, loose mounting hardware, damaged screen, and debris.	✓							
14. Bilge Pump Bypass Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connections.	✓							
15. Plenum Solenoid Valve. Check for oil leaks, loose mounting hardware, and damaged electrical connection.	✓							
16. Bow Plane Hydraulic tubes. Hoses and Fittings. Check for leaks, loose fittings and loose mounting hardware.	✓							
17. Fuel Manifold. Check for fuel leaks and loose mounting hardware.			✓					QUICK DISCON LEAKING
18. Forward Engine Compartment Fire Extinguisher Discharge Nozzle. Check for damage and debris.	✓							
19. Port Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
20. Port Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	✓							
21. Starboard Final Drive.								
a. Oil/Oil Level.	✓							
b. Oil Leaks/Seals.	✓							
c. Mounting Hardware.	✓							
22. Starboard U-Joint. Check for wear, tight screws, and proper safety wiring.	✓							
23. Starboard Lateral Drive Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
24. Starboard Electrical Bilge Pump. Check screen for debris and damage. Check mounting hardware for tightness.			✓					KNOCKING NOISE

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
25. Precleaner. Check cleaner for damage, loose mounting hardware, and loose clamps. Check screen for damage and debris.	/							
26. Crew Ventilation Fan. Check mounting hardware for looseness. Check ducts and clamps for damage and tightness.	/							
27. Starboard Right Angle Drive. Check oil level. Check mounting hardware for looseness. Check for signs of leaks.	/							
28. Starboard Right Angle Drive Shaft. Check condition of shaft coupling for damage. Check coupling bolts for tightness and proper safety wire.	/							
29. Fan Drive Shaft. Check shaft and coupling for damage or wear. Check safety wire for damage.	/							
30. Fuel Filter.								
a. Fuel Leaks.	/							
b. Drain Cock/Contamination.	/							
c. Electrical Leads/Transducer.	/							
d. Mounting Hardware/Air Valve.	/							
31. Power Takeoff Unit.								
a. Oil Leaks.	/							
b. Mounting Hardware.	/							
c. Electrical leads/Connections.	/							
32. Starter. Check that starter is mounted properly. Check electrical leads and connections for damage and proper connections.	/							
33. Transmission Oil Cooler. Check for oil and water leaks. Check electrical leads and connections for damage. Check oil lines, hoses, and clamps for tightness.	/							
34. Exhaust Manifold (starboard side). Check for cracks, holes, and corrosion. Check mounting hardware for tightness.	/							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
35. Transmission. Check for overall cleanliness and damage.								
a. Leaks.	✓							
b. Torque converter to engine mounting screw for tightness.	✓							
c. Range selector valve for leaks and safety wire.	✓							
d. Oil Leaks.	✓							
e. Left and right brake and steer sections for leaks and loose mounting bolts.	✓							
f. Check brakes for proper adjustment.	✓							
g. Check transmission drain line for leaks, damage, and loose drain plug.	✓							
VI. Engine Compartment (Aft)								
1. Exhaust Plenum. Check actuating cylinder and oil lines for leaks. Check condition of plenum seal.	✓							
2. Components Bolted on to the Engine. Check for tight mounting hardware, proper electrical connections, damaged hoses and electrical leads, and leaks.								
a. Turbocharger.			✓					LEAK
b. PT Pump.	✓							
c. Exhaust Manifold (port side).			✓					LEAK
d. Engine Oil Cooler.	✓							
e. Engine Oil Filter.	✓							
f. Intake Manifold.	✓							
g. Smoke Generation Components.	✓							
h. Cold Start Components.	✓							
i. Crankcase Breathers.	✓							
3. Transmission Oil Filter.								
a. Mounting Hardware.	✓							
b. Leaks.	✓							
c. Check Electrical Connections.	✓							
4. Engine Oil Level. Check for correct level and signs of contamination. Check dipstick for damage.	✓							
5. Transmission Oil Level. Check for correct level and signs of contamination. Check fill tube and dipstick for damage.	✓							
6. Tachometer Drive Shaft. Check for adapter and cable damage.	✓							

ENCLOSURE (2)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
7. Radiator. Check for radiator damage. Check for water leaks on radiator and coolant tubes.	✓							
8. Exhaust System. Check condition of insulation. Check for loose mounting hardware and damaged scavenging system check valve and for leaks.			✓					INSULATION LOOSE
9. Engine Compartment Exhaust Duct. Check for cracks or other damage. Check mounting hardware and clamps for tightness. Check tubes for proper mounting.	✓							
10. Engine. Check overall condition of engine for cleanliness and fuel, coolant, and oil leaks.	✓							
11. Generator.								
a. Bracket and Hardware.	✓							
b. Pulley and Belt.	✓							
c. Adjustment.	✓							
d. Voltage Regulator			✓					IMPROPERLY MOUNTED
12. Water Pump. Check for leaks.								
a. Pump.	✓							
b. Hoses and Tubes.	✓							
c. Belt and Adjustment.	✓							
13. Fire Extinguisher Discharge Nozzle. Check for damage, debris, and condition of safety wire.	✓							
14. Engine Oil Heat Exchanger. Check mounting hardware for tightness. Check for oil leaks. Check electrical leads for damage and tight connections.	✓							
15. Cold Start Disconnect Lever. Check for proper operation, damage, and corrosion.	✓							
16. Hydraulic Reservoir.								
a. Oil Leaks.			✓					QUICK DISCON LEAKS
b. Mounting Hardware.	✓							
c. Oil Level.	✓							
d. Dipstick for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
VII. Troop Compartment								
NOTE Before inspecting troop compartment, open cargo hatches. Sound horn and lower ramp.								
1. Engine Compartment Access Covers (aft). Check all thumbscrews and clamps for damage and operation. Check covers for correct mating and damage.								
a. Aft Upper.	✓							
b. Aft Center.	✓							
c. Aft Lower.	✓							
d. Port Upper.	✓							
e. Port Lower.	✓							
f. Smoke Generation.	✓							
2. Smoke Generation Fuel Control Valve. Check to see if valve operates freely. Check for any damaged components and leaks.	✓							
3. Engine Compartment Fire Extinguisher.	✓							
a. Bottle and Tag.	✓							
b. Control Valve.	✓							
c. Clamps.	✓							
4. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
5. Coolant Bypass Tube. Check to see if tube is mounted properly in retaining brackets.	✓							
6. Air Cleaner Compartment.								
a. Access Door.	✓							
b. Retaining Brackets.	✓							
c. Element.	✓							
d. Compartment.	✓							
7. Right Angle Drive Access Cover. Rotate weapon station to gain access to cover. Check cover for proper mating and damage.	✓							
8. Starboard Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.	✓							
9. Starboard Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
10. Fuel Tank Drains. Check both valves for proper operation. Check fuel lines and fittings for leaks. Check manual shutoff valves to make sure the handle rotates freely.								
a. Internal Fuel Tank Drain.			✓					Ⓟ STOPPER
b. External Fuel Tank Drain.	✓							
c. Fuel Lines and Fittings.	✓							
d. Manual Shutoff Valve.	✓							
11. Fuel Tank.								
a. Electrical Leads.			✓					AFT PUMP DOESN'T SHUT OFF
b. Leaks.	✓							
c. Retaining Straps.	✓							
d. Breather Cap.	✓							
12. Troop Seats.								
a. Hinges.	✓							
b. Supports.	✓							
c. Seat Pans.	✓							
d. Cushions.	✓							
e. Safety Belts/Straps.	✓							
f. Adjusting Rods.	✓							
13. Interior Stowage.								
a. MG Cleaning Rod Bracket.	✓							
b. Rifle Brackets.	✓							
c. Water Can Supports.	✓							
d. Seat Stowage Supports.	✓							
e. DVE Container.	✓							
f. Portable Fire Extinguisher Bracket.	✓							
g. Pamphlet Stowage Rack.	✓							
h. Ammo Box Bracket.	✓							
i. Hand Oiler Bracket.	✓							
j. Tool Box Stowage Support.	✓							
14. Power Distribution Box. Check to see if box is securely mounted. Check all electrical connections for tightness. Check cover for tight screws. Check slave output power switch for damage.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
15. Batteries.								
a. Battery Box Cover.	✓							
b. Holddowns.	✓							
c. Cables and Terminals.	✓							
d. Battery and Terminal Posts.	✓							
e. Battery Box Drains.	✓							
f. Battery Instruction Plate.	✓							
16. Radio Guards. Check guards for damage and loose or missing mounting hardware.	✓							
17. Deflector Actuator Guards. Check guards for debris and damage. Check mounting hardware for tightness.								
a. Port			✓					ON INSTALL
b. Starboard.	✓							
18. Water Steer System Components.								
a. Water-Jet Deflector Position Sensing Module (port and starboard).	✓							
b. Water-Jet Deflector Servo Module (port and starboard).			✓					T
c. Water-Jet Deflector Solenoid Module (port and starboard).			✓					STBD NOT MOUNTED
d. Actuator Cylinders Port and Starboard.	✓							
e. Actuator Bracket Port and Starboard.	✓							
19. AFSSS Electrical Components.								
a. Sensors/Control Box.	✓							
b. Cables.								
c. Test AFSSS using the test set (Item 4, Table 11-1) (Para. 11-70)	✓							
20. Dome Lights. Check mounting hardware for tightness. Check for broken or cracked lens and knobs. With master switch ON, check lights for proper operation.			✓					AFT (1) BULBS NEED REPLACE
21. Aft Slave Receptacle. Check cover and chain for damage. Check insert for corrosion and damage. Check electrical lead for damage and loose connections. Check mounting hardware for tightness.	✓							
22. Troop Ventilation Outlets. Check for free movement and damaged louvers.	✓							
23. Ramp Lock Linkage. Check to see that linkage does not bind. Check for bent or warped linkage rods.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
24. Ramp. With ramp lowered, check ramp seal for breaks and spongy condition.								
a. Ramp Seal. Check mating with hull in closed position.	✓							
b. Vision Block Cover.	✓							
c. Skid Bars	✓							
d. Quick-Release (Visual Only).	✓							
e. Tow Pintle Release.	✓							
25. Deck Plates.								
a. Deck Plates (port and starboard).	✓							
b. Center Deck Plate.	✓							
c. Contact Cooler Bleeder Valve Access Cover.	✓							
d. Bilge Pump Access Cover (port and starboard).	✓							
e. Tiedown Rings.	✓							
NOTE Remove troop compartment deck plates before continuing.								
26. Contact Cooler. Check that bleeder valve is not frozen. Check for signs of leaks.			✓					BLEEDER VALVE SEIZED
27. Torsion Bars. Check torsion bars for damage.	✓							
28. Ramp Cylinder and Cable.	✓							
29. Hydraulic Bilge Pump.								
a. Bilge Pump.	✓							
b. Outlet tube.	✓							
30. Electric Bilge Pump.								
a. Electric Pump.	✓							
b. Outlet Tube.			✓					CLAMPS NEED TIGHTENING
31. Bilges. Check for cleanliness and obvious signs of damage.								
a. Brackets and Mounting Hardware.	✓							
b. Discharge Tubs and Nozzles.	✓							
32. Fire Extinguisher (17 lb).								
a. Mounting Hardware.	✓							
b. Discharge Tub and Seal.	✓							
c. Tag Date. _____		✓						
d. Seal.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
33. Personnel Heater.								
a. Mounts.	✓							
b. Exhaust System and Cover.			✓					BROKEN HANDLE
c. Electrical Wiring and Switches.	✓							
d. Fuel System.	✓							
e. Heater Ducts.			✓					NOT MOUNTED
34. Port Longitudinal Shaft Cover. Check for damage. Check for loose mounting hardware.								
35. Port Longitudinal Shaft. Check shaft for damage and coupling for tight mounting screws and proper safety wire.	✓							
36. Radio Mounts.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts.			✓					LOOSE
c. Check Radio Cables.	✓							
37. EPLRS Rack.								
a. Check Mounting Hardware.	✓							
b. Check Radio Mounts	✓							
c. Check Radio Cables.	✓							
VIII. Driver's and Commander's Station								
1. Access Covers.								
a. Hydrostatic Steer Disconnect Lever.	✓							
b. Final Drive U-Joint.	✓							
c. Hydraulic Reservoir.	✓							
2. Flapper Valve. Check spring tension flapper. Check mounting screws for tightness and damage to flapper.	✓							
3. Fire Extinguisher (7 lb). Check mounting bracket and hardware for tightness. Check tag for date bottle was last weighed. Check wire seat on control head.								
a. Bracket and Mounting Hardware.	✓							
b. Tag/Date.	✓							UNREADABLE
c. Wire Seal.	✓							
4. Ramp Lock Handle. Check handle and lock for damage and proper operation.	✓							
5. Ramp Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
6. Fire Extinguisher Discharge Handle. Check handle for damage and unbroken wire seal.	✓							
7. Power Train Switch. Move lever and check for binding. Check bail for damage.			✓					DISCON CABLES
8. Mode Selector Switch. Check for missing or damaged toggle switch.	✓							
9. Handle Throttle. Move throttle and check for proper operation. Check linkage and cover for damage.	✓							
10. Gear Selector. Check console for loose mounting hardware for damage. Check movement of selector through all gear range.	✓							
11. Air Cleaner Restrictor Indicator. Check for proper mounting to bulkhead. Check indicator for damage.	✓							
12. Auxiliary Instrument Panel. Check panel for loose mounting hardware. Check that gages are securely mounted in panel, and that hose connections are tight.	✓							
13. Accelerator Pedal								
a. Mounting Hardware/Brackets.	✓							
b. Pedal and Pedal Stop Screw.	✓							
c. Water Drive Switch.			✓					DISCON CABLES
14. Brake Pedal. Apply and release brakes to check binding.	✓							
15. Parking Brake Handle. Check for proper operation. Make sure that parking brake holds and releases properly.	✓							
16. Steering Wheel. Check wheel for damage. Check operation of wheel tilt. Check for binding linkage. Check steering wheel sensing module for loose mounting hardware or damaged wiring.								
a. Steering Wheel.	✓							
b. Steering Wheel Sensing Module.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
17. Indicator Panel. Check mounting hardware and grommets for tightness and damage. Check for loose or damaged switches, lights, and buttons.								
a. Master Switch.	✓							
b. Lamp Test/Warning Cancel Switch.	✓							
c. Horn Button.	✓							
d. Panel Lights Brt/Dim Switch.	✓							
e. Cold Start Switch.	✓							
f. Starter Button.	✓							
g. Light Switch.	✓							
h. TACNAV Indicator.	✓							
i. Tachometer.	✓							
j. Speedometer.	✓							
k. Smoke Generation Indicator Light.	✓							
l. Smoke Generation Switch.	✓							
m. Forward Electric Bilge Pump Switch.	✓							
n. Aft Electric Bilge Pump Switch.	✓							
o. Aft Electric Bilge Pump Indicator Light.	✓							
p. Forward Electric Bilge Pump Indicator Light.	✓							
q. Aft Hydraulic Bilge Pump Indicator Light.	✓							
r. Forward Hydraulic Bilge Pump Indicator Light.	✓							
s. Ventilation Switch.	✓							
18. Driver's Display Unit. Check for cracked glass and moisture. Check that unit is securely mounted in indicator panel.								
NOTE Bar scales and warning lights will be checked during the operational portion of preinduction.			✓					WATER TEMP 1NOP
19. Bow Plane Control Valve. Check for damage, loose fittings, leaks, and loose mounting hardware.	✓							
20. Vent Air Outlets. Check driver's and commander's outlets for breaks and cracks. Check to see if outlet rotates freely. Check mounting hardware for tightness.								
a. Driver's Outlet.	✓							
b. Commander's Outlet.	✓							

ENCLOSURE (2)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
21. Vent Air Hoses, Tubes, and Duct. Check for loose clamps and mounting hardware. Check for damaged hoses, tubes, and duct.	✓							
22. Bilge Outlet Tube. Check tube for damage, hoses for cracks, and clamps for tightness.	✓							
23. Instrument Distribution Box. Check that box is securely mounted, and that cover screws are tight. Check all wiring harness connectors for tightness.			✓					(M) PANEL COVER
24. Forward Slave Receptacle on Instrument Distribution Box. Check cover and chain for damage. Check receptacle for corrosion and damage.	✓							
25. Searchlight Switch. Check for damage and operation.	✓							
26. Ventilation Air Outlet Valve. Check for loose mounting hardware and damaged cable and handle with ball. Open and close outlet and check for binding linkage.		✓						
27. Data Plates. Check for damage.	✓							
28. Manual Fuel Shutoff Handle. Check shaft for damage and grommets for wear. Rotate handle to check for free operation.	✓							
29. Driver's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.			✓					CUSHION (M) NEEDS PM
30. Troop Commander's Seat. Check seat adjustments for proper operation. Check mounting hardware and brackets for damage and tightness. Check seat supports, pan, belt and cushions for damage.			✓					CUSHION TURN
31. Interior Decals and Instruction Plates. Check to see that they are readable.	✓							
32. Fire Extinguishers (MFSS and AFSSS).								
NOTE At this time all fire suppression system bottles are to be pulled and weighed.								
a. Mounting Hardware.	✓							
b. Discharge Tube and Seal.	✓							
c. Tag Date.		✓						
d. Seal.	✓							
33. Drive Shaft Guards. Check guards for damage and mounting hardware for tightness.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
IX. Equipment Operation								
1. Start vehicle, check operation of the following:								
a. Master Switch.	✓							
b. Horn.			✓					Cable CUT
c. Fuel Level Indicator.	✓							
d. Battery Generator Indicator.	✓							
e. Electric Bilge Pumps (forward and aft).			✓					END RATTLES
f. Panel Lights (brt/dim):	✓							
g. Display Panel Warning Lights.	✓							
h. Vent Switch Low Position.	✓							
2. Perform Diagnostic Test Equipment checks in accordance with TM 09674A-25&P/4, (See worksheet at the end of this Appendix).	✓							
3. Vehicle Stall Check. With brakes locked, and gear selector in 4th gear, accelerate fully and check the following:								
a. Brakes.	✓							
b. Transmission.	✓							
c. Engine. RPM.			✓					2150 RPM
d. TACNAV Indicator. Check that system powers and display works.	✓							
4. Lights. Check that lights work properly.								
a. Light Switch.	✓							
b. Service Drive.	✓							
c. Dimmer Switch.	✓							
d. Blackout Markers.			✓					1 NOB
e. Stop Light.	✓							
f. Park.	✓							
g. Searchlight.	✓							
h. Interior Dome Lights.					✓			REINDDOM (NOB BULBS) NEED REPLA
5. Driver's Viewer Enhancer (DVE). Check that power system works.	✓							
6. Lamp Test/Warning Cancel Switch. Check audio signal with proper comm helmet.	✓							

ENCLOSURE (52)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
X. Functional Road Test								
1. Steering. Check operation and drift.	✓							
2. Gear Ranges. Check for slippage and that lockup works properly.								DOESN'T REACH 4TH GEAR LOCKOUT
3. Smoke Generation. Check for correct operation.	✓							
4. Brakes. Check to see if brakes pull to one side or the other.	✓							
5. Speedometer. Check for correct operation.			✓					DOESN'T REACH 4TH GEAR LOCKOUT
6. Noises. Check for any unusual noises.	✓							
XI. Water Systems Test								
1. Plenums. Check that plenums close completely. Fan shuts off. (Para. 8-13)			✓					NO HYDRO/LEAK
2. Check if hydraulic bilge pumps operation.			✓					↓
3. Check if electric bilge pumps operate.	✓							
4. Check that jet drive activates at 1000 to 1200 RPM.			✓					JET DRIVE OPERATES INLAND
5. Bow Plane Operation.								
a. Control Valve. Check for proper operation and leaks.			✓					NO HYDRO/LEAK
b. Bow Plane. Check that it fully extends and retracts.			✓					↓
c. Pivot Actuator. Check for leaks, unusual noise and smooth operation.			✓					↓

NOTE

See TM 10004A-25&P/2 for LTI of UGWS Unique Items.
 See TM 07267B-25&P/4 for LTI of AAVR7A1 Unique Items.
 See TM 07268B-25&P/2 for LTI of AAVC7A1 Unique Items.

APPENDIX C

ASSAULT AMPHIBIOUS VEHICLE
 UPGUNNED WEAPONS STATION (UGWS) AAVP7A1
 LIMITED TECHNICAL INSPECTION

TAC No 34605 USMC No. 523100 Miles 516 Hours 7864
 Inspected 20200414 Inspector _____ (b)(3), (b)(6), (b)(7)(c)

*See Table C-1 for UGWS Details

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
I. Basket Weldment								
1. Basket Weldment Clearance.	✓							
a. Area around sides of basket weldment clear of obstructions.	✓							
b. Area around 12 channel slip ring clear of obstructions.	✓							
2. 12 Channel Slip ring.								
a. Electrical connections tight and in good condition.	✓							
b. Upper portion of 12-channel slip ring rotates freely.	✓							
c. Manual and upgunned weapons station operation.	✓							
3. Power Relay Assembly.								
a. Box secure to bottom of basket.	✓							
b. Electrical connections tight and in good condition.	✓							
4. Basket Inspection.								
a. Gear belt secure and working properly belt in good condition.	✓							
b. Sponned items do not overhang basket.	✓							
c. Sponned items in good condition, bolts in all holes, no loose items in basket assembly.	✓							
II. Weapons Station Interior								
1. Target Power Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connections tight and in good condition.	✓							
2. Weapon Control Assembly.								
a. Box cover secure. Box secure to basket weldment.	✓							
b. Electrical connections tight and in good condition.	✓							

ENCLOSURE (2)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
3. Traverse Switch Assembly								
a. Box cover secure to basket weldment.		✓	✓					2 Bots / Loose
b. Electrical connector tight and in good condition.	✓							
4. M36P TSS Periscope								
a. Mounting Screws. Check screws for security. Check sight is secure to turret weldment.	✓							
b. Sight. Check for moisture in window and in mirror. Check condition of glass.	✓							
c. Sight Eyepieces. Check for moisture, condition of reticles, condition of eye-piece pads, and proper operation.	✓							
d. Latch Assembly. Check that latch moves freely, and has spring tension.	✓							
e. Hanger Strap. Check for serviceability.	✓							
f. Head Assembly. Check nuts on head assembly for tightness.	✓							
g. Body Assembly. Check mounting hardware for security and that safety wire is present.	✓							
h. Boresight Knobs - Azimuth and Elevation. Check setting on both knobs and record. Turn each knob, check for smooth movement and shift of sight reticle. Reposition knobs to original settings.	✓							
i. Sight Power Electrical Connectors. Check that electrical connectors are in good condition.		✓						Connector (M)
j. Check for cracks, dents, burns and chipped paint on housing.	✓							
k. Check that valve cap is tight and retaining strap is not broken or missing.	✓							
l. Check that both knobs on elbow assembly move freely from LO to HI position.	✓							
m. Check that lamp holder is tight and packing is installed.	✓							
n. Check that plug or shutter switch is present. If missing, notify supervisor.	✓							
o. Check that all boresight knobs move freely, and scales can be easily read.	✓							
p. Check ID plate for damage and if it can be easily read. If plate cannot be read, notify supervisor.	✓							
q. Check that shutter switch will not move to ON without pushing safety button first.	✓							
r. Check that valve cap strap is not damaged or missing.	✓							
s. Check that all screws are tight on mounting hardware.	✓							

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
5. Exhaust Blower. Check for corrosion and debris. Make sure electrical connectors are tight and in good shape. Check operation of blower door.	✓					✓		
6. .50 Caliber Ammo Ejection Chute. Check for condition and security. Ensure that chute is clear of debris.	✓	✓	✓	✓	✓	✓	✓	
a. Check ejection-chute hose for security and condition.			✓					Uninstalled
b. Spent-Cartridge Box. Check security and condition. Check operation of latches.			✓					Uninstalled
7. Equilibrator. Check for corrosion, security and adjustment.	✓							
8. .50 Caliber Ammo Feed System	✓	✓	✓	✓	✓	✓	✓	
a. Check security and condition of .50 caliber ammo trays.	✓							
b. Check security and condition of roller guides.	✓							
9. 40mm Ammo Feed System	✓	✓	✓	✓	✓	✓	✓	
a. Feed Chute. Check for dents, corrosion and/or damage.	✓							
b. Check feed-chute cover for tears, holes; zipper must move freely. Check attachment points for security and condition.	✓							
c. Check anti-feedback lever for condition and security.	✓							
10. 40mm Ammo Box Assembly	✓	✓	✓	✓	✓	✓	✓	
a. Check security and condition of box, doors, and flaps.	✓							
b. Check operation of latches.	✓							
c. Check that electrical connector on last-round switch is tight and in good condition.	✓							
11. 40mm Charger Assembly. Check condition and security of charger tube.	✓							
12. 40mm Mantlet	✓	✓	✓	✓	✓	✓	✓	
a. Check condition and security.	✓							
b. Check operation of cover latches.	✓							
13. .50 Caliber Mantlet and Cradle. Check condition and security. Check for damage, cracked welds and bare metal.	✓							
14. Power-Assist Traverse Mechanism. Check for security, condition and leakage. Make sure that electrical connectors are tight and in good condition.		✓	✓					Ⓜ i Bolt / Loose
15. Elevation Control Assembly. Check for security and condition.		✓						Ⓜ / Not Installed

ENCLOSURE (3)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
16. Gunner's Trigger Switch. Check for security and condition. Check that electrical connectors are tight and in good condition.		✓						(M)
17. Linkage. Check for security and condition.	✓							
18. Grenade Launcher Inhibit Switch. Check for security and condition. Check that electrical connector is tight and in good condition.			✓					(I)
19. Elevation Interrupter Switches. Check for condition and security. Check that electrical connectors are tight and in good condition.	✓							
20. Utility Light. Check that light and electrical connector is secure and in good condition.		✓						(M)
21. Communications Box.								
a. Check that electrical connector is tight and in good condition.	✓							
b. Check for security and condition.	✓							
22. Weapons Station. Inspect for damage, security and clarity.								
a. Vision Blocks. Inspect for damage, security and clarity.	✓							
b. Ring Gear. Inspect for damage and corrosion. Should be clean and no grease.	✓							
23. Hatch.								
a. Seal, Hatch Hinges. Inspect for damage, loose hardware and proper operation.		✓						Seal (M)
b. Hatch Latch Check. It should lock the hatch closed, hatch vertical to turret and hatch horizontally open in three positions (15 degrees, 90 degrees and 175 degrees).	✓							
c. Hatch Handle. Check security, condition and proper operation.	✓							
d. Crash Pads. Inspect pads on hatch and weapons station for security and condition.						✓		Pad (I)
24. DAGR.								
a. Check that electrical and antenna connections are tight and in good condition.		✓						
b. Check for security and condition.		✓						

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be included if unserviceable.
III. Weapons Station Exterior								
1. Receptacle, Spot Light. Inspect for corrosion and damage. Check that cover fits securely and is tight.	✓							
2. Mount, Spot Light. Inspect condition and security.	✓							
3. Smoke Grenade Launchers								
a. Tubes. Inspect sight tubes for dents, cracks or corrosion, and security to mounts. Check security of mount to turret.	✓							
b. Electrical Contacts. Check that contacts are tight and free of corrosion.	✓							
c. Rubber Caps. Check sight caps for condition.	✓							
4. Entrance Window. Inspect condition and security. Look for signs of moisture.	✓							
5. Sight Cover. Inspect condition and security.	✓							
6. 40mm Mantlet Cover. Check for security and condition. Check operation of latches.	✓							
7. Remote Antenna. Check security and condition of cover.	✓							
IV. Functional Tests								
1. Manual Operation. Check for weapons station binding and backlash.								
a. Azimuth. Check movement through 360 degree clockwise and counter-clockwise.			✓					Transverse Mech Loose
b. Elevation. Check for +45 degree maximum elevation and -8 degree maximum depression.		✓	✓					No Elevation Mech
2. Powered Systems Test. Vehicle master switch and turret power switch ON. Check operation as noted.								
a. Control Box Lights. Check that control box lamps light when turret power switch is ON by pressing lamp test all button.			✓					Sight Power Light ②
b. Domelight. Lights in both blue and white switch positions.	✓							
c. Utility Light. Lights in both red and white.	✓	✓						No Utility Light
d. Thermal Elbow. Check Only. Ensure the unit shows an image and all controls work.			✓					Sight Can't Turn On
e. Spot Light. Install and check operation.	✓							
f. Exhaust Blower. Check operation.	✓							

ENCLOSURE (2)

NOMENCLATURE/LOCATION	Satisfactory	Missing	Service	Adjust	Repair	Replace	Modify	Remarks MUST be Included if unserviceable.
3. Low Ammo System Test								
a. Last-Round Switch OFF. Last-round indicator light on, triggers do not work.		✓						Gunner Switch (M)
b. Last-Round Switch ON. Last-round indicator lamp light ON, override switch in up position, triggers work.		✓						
c. Last-Round Switch OFF. Last-round indicator light OFF, override switch down, triggers work.		✓						
4. Weapons Station System. Perform test as prescribed in Section 3.								
a. Manual Elevation. Check operation.		✓						Elevation Mech (M)
b. Deck Clearance. Check clearance of all obstacles. Check all inhibit zones. Weapons electrical trigger will not fire while in inhibit zones.		✓						
5. Smoke Grenade Launcher Test.								
a. Tubes. Check that they are clear of grenades.	✓							
b. Contacts. Check for 24 volts at eight firing pins inside of tubes on smoke grenade launchers. Turret power switches ON, smoke grenade switch ON, hatch in closed and locked position and grenade firing switch depressed.	✓							
6. DAGR Operational Test. Refer to TM 11-5820-1172-15.								
a. Check that DAGR passes self-test.		✓						
b. Check that DAGR is using vehicle power.		✓						
c. Check that DAGR is using remote antenna.		✓						
d. Check functioning of DAGR screen back lighting.		✓						

523100					
#	NIIN	Nomenclature	Quantity	Unit Price	Ext Price
1	11870964	SHACKLE	1	\$36.08	\$36.08
2	13616921	EXTINGUISHER,FIRE	1	\$129.91	\$129.91
3	2247987	BRUSH,FILE CLEANER	1	\$16.63	\$16.63
4	2633873	BRUSH,PAINT	1	\$1.56	\$1.56
5	2247055	CUTTER,BOLT	1	\$30.30	\$30.30
6	10758292	DRIFT PIN,TRACK	1	\$113.56	\$113.56
7	2211536	KNIFE,PUTTY	1	\$5.11	\$5.11
8	1558675	LAMP,INCANDESCENT	1	\$2.03	\$2.03
9	864293	LIGHT,EXTENSION	1	\$97.75	\$97.75
10	193093	LAMP,INCANDESCENT	1	\$0.25	\$0.25
11	2532478	LUBRICATING GUN,HAN	1	\$11.15	\$11.15
12	2628868	OILER,HAND	1	\$6.96	\$6.96
13	6821508	PADLOCK	1	\$7.18	\$7.18
14	14297306	PLIERS,DIAGONAL CUT	1	\$11.47	\$11.47
15	2348913	SCREWDRIVER,CROSS T	1	\$1.40	\$1.40
16	2348912	SCREWDRIVER,CROSS T	1	\$4.46	\$4.46
17	2228852	SCREWDRIVER,FLAT TI	1	\$3.84	\$3.84
18	2376985	SCREWDRIVER,FLAT TI	1	\$8.60	\$8.60
19	14863602	SPOTLIGHT	1	\$951.69	\$951.69
20	13673462	SCREWDRIVER ATTACHM	1	\$3.59	\$3.59
21	13785543	SOCKET,SOCKET WRENC	1	\$10.26	\$10.26
22	1065871	ROLL,TOOLS AND ACCE	1	\$10.64	\$10.64
23	2289506	WRENCH,BOX AND OPEN	1	\$4.79	\$4.79
24	2289514	WRENCH,BOX AND OPEN	1	\$13.28	\$13.28
25	2217958	HANDLE,SOCKET WRENC	1	\$11.69	\$11.69
26	1897934	SOCKET,SOCKET WRENC	1	\$4.62	\$4.62
27	1897927	SOCKET,SOCKET WRENC	1	\$3.79	\$3.79
28	1897913	SOCKET,SOCKET WRENC	1	\$3.65	\$3.65
29	1897914	SOCKET,SOCKET WRENC	1	\$3.46	\$3.46
30	2405328	WRENCH,ADJUSTABLE	1	\$10.45	\$10.45
31	13491383	WRENCH,BOX	1	\$9.50	\$9.50
32	14810504	SCREW,MACHINE	2	\$0.20	\$0.40
33	9221200	FIRST AID KIT,UTILI	1	\$51.90	\$51.90
34	2423650	FLAGSTAFF	1	\$4.29	\$4.29
35	2271511	FLAG,SIGNAL	1	\$3.09	\$3.09
	35				\$1,589.33

TAMCN	NOMEN	NIIN	SERIAL#	QTY	Condition Code	SR#	SR Status	T/P (\$)	REMARKS
E08467K	VALVE ASSEMBLY, M	01-112-7625	523100	1	R	29747720	SHT PART	\$3,144.25	
E08467K	CABLE ASSEMBLY, W	01-394-1789	523100	1	R	29747720	SHT PART	\$532.09	
E08467K	CUSHION, SEAT, VEHI	01-113-6579	523100	2	R	29747720	SHT PART	\$66.20	
E08467K	TRACH SHOE, VEHICLE	01-442-9686	523100	170	R	29747720	SHT PART	\$32,470.00	
E08467K	PIN, STRAIGHT, HEAD	00-159-3604	523100	1	R	29747720	SHT PART	\$5.06	
E08467K	WASHER, FLAT	00-767-9425	523100	3	R	29747720	SHT PART	\$23.76	
E08467K	PIN, COTTER	00-234-1864	523100	1	R	29747720	SHT PART	\$3.67	
E08467K	SCREW, CAP, HEXAGON	00-717-5467	523100	1	R	29747720	SHT PART	\$0.43	
E08467K	NUT, SELF-LOCKING	00-914-6028	523100	1	R	29747720	SHT PART	\$0.56	
E08467K	PIN, COTTER	00-2341863	523100	1	R	29747720	SHT PART	\$24.37	
E08467K	WASHER, FLAT	00-625-5756	523100	1	R	29747720	SHT PART	\$4.55	
E08467K	PIN, STRAIGHT, HEAD	00-155-5344	523100	1	R	29747720	SHT PART	\$5.04	
E08467K	LOCKNUT, TUBE FITTING	00-727-8912	523100	2	R	29747720	SHT PART	\$3.28	
E08467K	WASHER, FLAT	00-068-5285	523100	1	R	29747720	SHT PART	\$9.93	
E08467K	ADAPTER, STRAIGHT	00-226-6771	523100	1	R	29747720	SHT PART	\$15.04	
E08467K	ELBOW, TUBE	00-264-6788	523100	1	R	29747720	SHT PART	\$21.61	
E08467K	BRACKET, EYE, NONR	01-238-8822	523100	1	R	29747720	SHT PART	\$116.66	
E08467K	BEARING, SLEEVE	00-153-8734	523100	1	R	29747720	SHT PART	\$3.06	
E08467K	PIN, STRAIGHT, HEAD	00-239-7637	523100	1	R	29747720	SHT PART	\$3.85	
E08467K	PIN, STRAIGHT, HEAD	01-509-6311	523100	1	R	29747720	SHT PART	\$19.18	
E08467K	BUMPER	00-598-2754	523100	1	R	29747720	SHT PART	\$0.47	
E08467K	BEARING, SLEEVE	00-153-8734	523100	1	R	29747720	SHT PART	\$3.06	
E08467K	CABLE ASSEMBLY, S	01-310-0335	523100	4	R	29921618	SHT PART	\$173.84	
E08467K	CABLE ASSEMBLY, S	01-449-1701	523100	1	R	29921618	SHT PART	\$457.14	
E08467K	BOLT, MACHINE	00-021-3912	523100	10	R	29921618	SHT PART	\$2.80	
E08467K	WASHER, FLAT	01-389-7014	523100	10	R	29921618	SHT PART	\$1.20	
E08467K	WASHER, LOCK	00-974-6623	523100	10	R	29921618	SHT PART	\$39.40	
E08467K	NUT, PLAIN, HEXAGON	00-939-2655	523100	10	R	29921618	SHT PART	\$2.30	
E08467K	CABLE ASSEMBLY, S	01-449-2169	523100	1	R	29921618	SHT PART	\$373.63	
E08467K	CABLE ASSEMBLY	01-226-2442	523100	3	R	29921618	SHT PART	\$142.50	
E08467K	CABLE ASSEMBLY, R	01-301-0834	523100	3	R	29921618	SHT PART	\$159.42	
E08467K	BRACKET, MOUNTING	01-456-7986	523100	6	R	29921618	SHT PART	\$72.54	

ENCLOSURE (52)