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For Commander and Gunner Procedures see RP 84-04, and RN 84-61 for Evaluation Procedures Guide.

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Procedure guides Job aid Fighting vehicles Infantry

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29. ABSTRACT (Continue on reverse olds if necessary and identity by block number)

A procedures guide was developed for critical tasks for Bradley Infantry Fighting Vehicle (M2) Drivers. Tasks which are not complicated are presented in line-by-line form, with the names of tasks listed in the correct sequence. More complex tasks are presented in a flowchart format with decision trees at choice points. The steps within a procedure are sequenced, and the use of symbols highlights the subtasks. Warnings and cautions are presented, as well as indications to when vehicle indicator lights are critical. The terminology is identical to that found in the technical manual (TM 9-2350-250-10-1)

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Fighting Vehicle, Infantry, M2, (Hull) and a table of contents is provided. Each operator guide also contains a checklist of the preventive maintenance checks and services for which that operator is responsible. The guide is intended to be used as both a training supplement and as a job performance aid.

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Research Product 84-03

BRADLEY INFANTRY FIGHTING **VEHICLE PROCEDURES GUIDE: DRIVER**

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Seward Smith, Contracting Officer's Representative

Submitted by Seward Smith, Chief ARI Field Unit at Fort Benning, Georgia

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Training and Simulation

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The U.S. Army has begun introducing the Bradley Infantry Fighting Vehicle (M2) into mechanized infantry units, and has a major investment in training commanders, gunners, and drivers in the procedures of their respective positions. In support of this effort, the Army Research Institute initiated a research program to improve training and to develop procedures to maximize the operational effectiveness of the Bradley in combat.

In recognition of the complexity of the tasks required of BIFV crew members, the U.S. Army Infantry School requested that the Army Research Institute prepare a set of Procedures Guides which summarize the critical tasks for Bradley Commanders, Gunners, and Drivers. Tasks required of these crew members often dictate a specific sequence of actions designed to insure the safety of personnel, accomplish the mission, and safeguard the integrity of the equipment, or are so infrequently performed as to require a job aid for successful completion. Other tasks need to be cross-trained across squad members, or may require rapid familiarization for new crew members as a result of combat losses.

Responding to these task requirements, the Army Research Institute prepared a set of Procedures Guides to follow the same format as Procedures Guides developed by the Army Research Institute for the Mi Tank. The Bradley Guides are of compact size and allow for convenient updating as procedures change or new equipment becomes available. They include critical guidance on emergency procedures, proper use of the vehicle subsystems, and preventive maintenance checks. The intent is to provide each main crew member a position specific guide which, in addition to being technically correct, is more convenient to use than the technical manuals on board each vehicle.

The Driver Guide was prepared according to these guidelines, and is being evaluated in the field by the Infantry School. Operational units and trainers are evaluating the guides both as training supplements and as job aids. Evaluation of this Driver Procedures Guide and its companion Commander and Gunner Procedures Guide (RP 84-04) was undertaken in the institutional environment, and is available as Army Research Institute Research Note Bradley Infantry Fighting Vehicle Procedure Guides: Evaluation (RN 84-61).

EDGAR M. JOHNSON Technical Director

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GENERAL INFORMATION

This booklet contains BIFV Driver Procedure Guides. Each guide is for a single activity and is matched to TM 9-2350-252-10-1 (Operator's Manual for Fighting Vehicle, Infantry, M2, Hull).

PURPOSE OF PROCEDURE GUIDES

The guides in this booklet are not intended to take the place of the BIFV

TM or training materials. They will help you to remember long or difficult

sets of procedures. In short, the guides will help to "jog your memory."

USE OF THIS BOOKLET

The Table of Contents (on the next page) lists the procedure guides in this booklet. Each guide gives you a step-by-step outline for completing an activity. The following will help you to better use each guide:

- See P.

 Some steps within a procedure guide are followed by a page number. On that page within the guide you will find a detailed breakdown of the step.
- 2. Some of the procedure guides include a question(s). Each

 NO

 question is stated inside a diamond shape. Your "yes" or

 "no" to the question will show you which path to follow.
- 3. Some steps within a procedure guide are followed by a box.

 In the box you will find more information on the step or a caution/warning.
 - ON or switch be turned to a certain position. If that position is written like the symbol to the left, a light should also come on.

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1. DRIVER'S HATCH	· · · · · · · · · UNLOCK, OPEN
2. DRIVER'S SEAT	· · · · · · · · · · · UNSTOW, ADJUST
3. POWER UNIT ACCESS PANELS .	CHECK EDGES FLAT AND BOLTS TIGHT
4. BRAKE PEDAL	ADJUST
5. SEAT BELT	· · · · · · · · · FASTEN
6. CVC HELMET	· · · · · · · · · PUT ON, PLUG IN
7. FIRE SUPPRESSION SWITCH	
8. MASTER POWER SWITCH	on on
9. ENGINE ACCESSORY SWITCH	ON
10. DRIVER'S INSTRUMENT PANEL .	10a. Fuel Gage Green b. Volts Gage Yellow c. Warning Lights Flashing d. Warning Tone Sounding
11. FUEL CONTROL	ON
Start Engine	
To Start Engine Above +40°F (+4° to Start Engine Below +40°F (+4°	°C) do steps 12 thru 15; °C) do steps 16 thru 26.
12. HORN	SOUND - [IF TACTICAL SITUATION PERMITS]
13. GEAR SELECTOR	MOVE TO START AND HOLD UNTIL ENGINE START THEN MOVE TO NEUTRAL
DOES PACINE START NO	
ENGINE START NO WITHIN 15	WAIT 1 MINUTE THEN REPEAT STEP 13
	IF ENGINE DOES NOT START AFTER 3 TRIES,
Ĭ	NOTIFY ORGANIZATIONAL MAINTENANCE
YES	
GO TO STEP 15	
	1 2

15. DRIVER'S INSTRUMENT PANEL . . . CHECK 15a. Volts gage Green b. Warning lights Off Warning tone Stopped IF LIGHTS AND TONE DO NOT STOP AFTER 30 SECONDS, NOTIFY ORGANIZATIONAL MAINTENANCE GO TO STEP 27 16. COLD START SWITCH . ON ノ」ヽ 17. NO DOES LIGHT NOTIFY ORGANIZATIONAL MAINTENANCE COME ON? YES WAIT 1 MINUTE GO TO STEP 18 SOUND - IF TACTICAL SITUATION PERMITS 18. HORN 19. STARTER CUTOUT OVERRIDE **SWITCH** 20. ACCELERATOR PEDAL . . PRESS DOWN 1/4" 21. GEAR SELECTOR . . MOVE TO START AND HOLD UNTIL ENGINE STARTS THEN MOVE TO NEUTRAL 22. DOES NO ENGINE START WAIT 1 MINUTE THEN REPEAT WITHIN 30 STEPS 16 THRU 21 SECONDS 2 IF ENGINE DOES NOT START AFTER 3 TRIES, NOTIFY ORGANIZATIONAL MAINTENANCE YES GO TO STEP 23 23. STARTER CUTOUT OVERRIDE . . . OFF

SWITCH

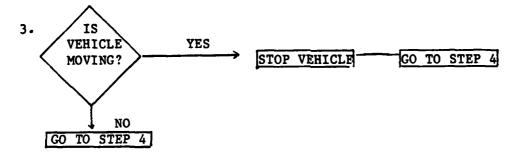
24. COLD START SWITCH OFF - WAIT UNTIL ENGINE RUNNING SMOOTHLY
25. DRIVER'S INSTRUMENT PANEL CHECK
25a. Volts gage Green b. Warning lights Off c. Warning tone Stopped IF LIGHTS AND TONE DO NOT STOP AFTER 30 SECONDS, NOTIFY ORGANIZATIONAL MAINTENANCE.
26. ENGINE FAST IDLE - ENGAGE HAND BRAKE; GEAR SELECTOR IN NEUTRAL
26a. Accelerator Press down 1" b. Throttle Push to Release Button Press c. Throttle Control Handle Pull Out d. Engine Let run 2 to 5 min. e. Throttle Push To Release Button Press f. Throttle Control Handle Push in
Drive Vehicle
27. HORN SOUND - IF TACTICAL SITUATION PERMITS
28. RAMP RAISE
29. HAND BRAKE RELEASE
30. GEAR SELECTOR SET TO DESIRED GEAR
31. HORN SOUND — IF TACTICAL SITUATION PERMITS
32. VEHICLE MOVE AS DIRECTED
33. SPECIAL EQUIPMENT OPERATE LIGHTS, SMOKE SCREEN, ETC. AS NEEDED
IF FIRE SYSTEM DISCHARGED, NOTIFY ORGANIZATIONAL MAINTENANCE. Stop Vehicle & Shut Down
34. BRAKE PEDAL PRESS DOWN SMOOTHLY TO STOP
35. GEAR SELECTOR MOVE TO NEUTRAL
36. HAND BRAKE SET

37.	FUEL CONTROL	OFF
38.	ENGINE ACCESSORY SWITCH	OFF
39.	FIRE SUPPRESSION SWITCH	CHECK IN AUTO
(H)40.	CARGO HATCH COVER	CLOSE
(H)41.	FIRING PORTS	SECURE
(G)42.	TURRET	SECURE
43.	HORN	SOUND — IF TACTICAL SITUATION PERMITS
44.	RAMP	LOWER SO CREW CAN EXIT
45.	HORN	SOUND — IF TACTICAL SITUATION PERMITS
46.	RAMP	RAISE
47.	MASTER POWER SWITCH	OFF
48•	DRIVER'S HATCH COVER	CLOSE/LOCK
49.	ENGINE ACCESS DOOR	LOCK

PARTY TO A CONTROL OF THE PARTY OF THE PARTY

Runaway Engine - Immediate Action

- 1. FUEL CONTROL OFF
- 2. GEAR SELECTOR NEUTRAL



- 4. HAND BRAKE SET
- 5. TRIM VANE LOWER
- 6. POWER UNIT ACCESS DOOR OPEN
- 7. FUEL INLET HOSE PULL UP ON QUICK DISCONNECT
- 8. ORGANIZATIONAL MAINTENANCE NOTIFY

GUNNER MAY ALSO STOP RUNAWAY ENGINE BY MANUALLY TURNING OFF MAIN FUEL SHUT OFF VALVE

Rough Terrain - Vehicle Operations

WEAR SEAT BELTS AT ALL TIMES

VEHICLE MUST MOVE STEADILY AND STRAIGHT ON

1.	TRENCHES	•	•	•	•	•	•	•	•	•	•	•	•	•	NOT GREATER THAN 8 FT. (2.5 m)
2.	VERTICAL WALLS OR OBSTACLES		•	•	•	•	•	•	•	•	•	•	•	•	NOT GREATER THAN 36 IN. (91 cm)
3.	HILLS	•	•	•	•	•	•	•	•	•	•	•	•	•	NOT GREATER THAN 60%; ACCELERATE TO KEEP FROM STALLING
4.	SIDE SLOPES	•	•	•	•	•	•	•	•	•	•	•	•	•	NOT GREATER THAN 40%; USE LOW GEAR
5.	SNOW, ICE, MUD	•	•	•	•	•	•	•	•	•	•	•	•	•	MOVE SMOOTHLY AND SLOWLY
6.	PARK	_	_	_	_	_	_	_	_	_	_		_		CHE TEDEN PIDM CHDEACE

Extreme Cold - Operations

	D	
	Prep l.	ALL HATCH COVERS
	2.	HORN SOUND — IF TACTICAL SITUATION PERMITS
	3.	RAMP RAISE
	4.	RAMP ACCESS DOOR
	5.	TURRET SHIELD DOOR OPEN
	6.	GRILLE COVER INSTALL
(G)	7.	25mm GUN MANUALLY DEPRESS
	8.	TARPAULIN COVER VEHICLE
	<u>Ope</u>	rate
	9.	TARPAULIN FOLD BACK TO UNCOVER GRILLES
	10.	WINTERIZATION KIT
		PERSONNEL HEATER OPERATE (see P. 22) — WITH WINTERIZATION HEATER FOR 1 MORE HOUR BEFORE STEP 13.
	13.	WINTERIZATION AND OFF — DO NOT TURN OFF MASTER POWER UNTIL HEATER PERSONNEL HEATERS STOPS RUNNING AND LIGHT GOES OUT.

7

14. ENGINE	COLD START (see p. 2) — RUN 15 MINUTES
15. HAND BRAKE	RELEASE
16. BRAKE PEDAL	PRESS AND HOLD THRU NEXT STEP
17. GEAR SELECTOR	MOVE TO PIVOT STEER AND HOLD 5 MIN.
	RAISE IDLE GRADUALLY
(G) 18. 25mm GUN	MANUALLY ELEVATE
19. GEAR SELECTOR	MOVE TO NEUTRAL - LOWER IDLE TO SLOW
20. HAND BRAKE	SET
21. INTAKE GRILLE	PARTIALLY UNCOVER
22. TARPAULIN	REMOVE
23. STEPS 15 THRU 17	REPEAT
24. VEHICLE	DRIVE - SLOWLY UNTIL ENGINE WARMS
	IF COOLANT TEMP GOES TO RED OR YELLOW, REPEAT 19 THRU 21, AND THEN 15 THRU 17.
After Operation	
25. ENGINE	STOP
26. TRIM VANE	LOWER
27. POWER UNIT ACCESS DOOR	OPEN
28. FUEL FILTER	DRAIN OUT WATER — IF EXCESSIVE WATER AND/OR SEDIMENT IS FOUND NOTIFY ORGANIZATIONAL MAINTENANCE
29. POWER UNIT ACCESS DOOR	CLOSE
30. TRIM VANE	STOW
31. GRILLE COVER	INSTALL
32. 25mm GUN	DEPRESS TO Ø MILS
33. TARPAULIN	COVER VEHICLE
34. HATCH COVER	CLOSED
35. RAMP	RAISED
36. RAMP ACCESS DOOR	CLOSED

Install, Operate, and Remove Driver's Night Viewer	
1. DRIVER'S PERISCOPE REMOVE FROM DRIVER'S HATCH CO	VER
2. DRIVER'S NIGHT VIEWER UNSTOW -	
IF USING VEHICLE POWER, CHECK T THAT BATTERY HAS BEEN REMOVED. USING BATTERY POWER, INSTALL BA	IF
3. 2 LATCH HANDLES SET IN OPEN POSITION	
4. ENTRANCE WINDOW REMOVE AND STOW COVER & EYEPIECE PROTECTIVE CAP	
5. DRIVER'S NIGHT VIEWER INSTALL AND LOCK	
6. OFF/BRIGHT ROTARY SWITCH OFF	
7. DRIVER'S PERISCOPE STOW	
IF USING VEHICLE POWER, DO STEPS 8 THRU 13. IF USING BATTERY POWER, DO STEPS 10 THRU 13.	
8. VEHICLE POWER CABLE INSTALL ON NIGHT VIEWER	
9. MASTER POWERON	
10. OFF/BRIGHT ROTARY SWITCH MAXIMUM BRIGHT	
11. BRIGHTNESS ADJUST	
12. NIGHT VIEWER POSITION AS NEEDED	
13. OFF/BRIGHT ROTARY SWITCH OFF	
IF USING VEHICLE POWER, GO TO STEP 14. IF USING BATTERY POWER, GO TO STEP 16.	
14. MASTER POWER OFF	
15. VEHICLE POWER CABLE REMOVE FROM VIEWER	
16. NIGHT VIEWER UNLOCK AND REMOVE FROM DRIVER HATCH COVER — REMOVE BATTER IF PRESENT.	_
17. EYEPIECE PROTECTIVE CAP INSTALL AND ENTRANCE WINDOW COVER	
18. DRIVER'S PERISCOPE UNSTOW	
19. DRIVER'S PERISCOPE INSTALL	
20. DRIVER'S NIGHT VIEWER STOW	

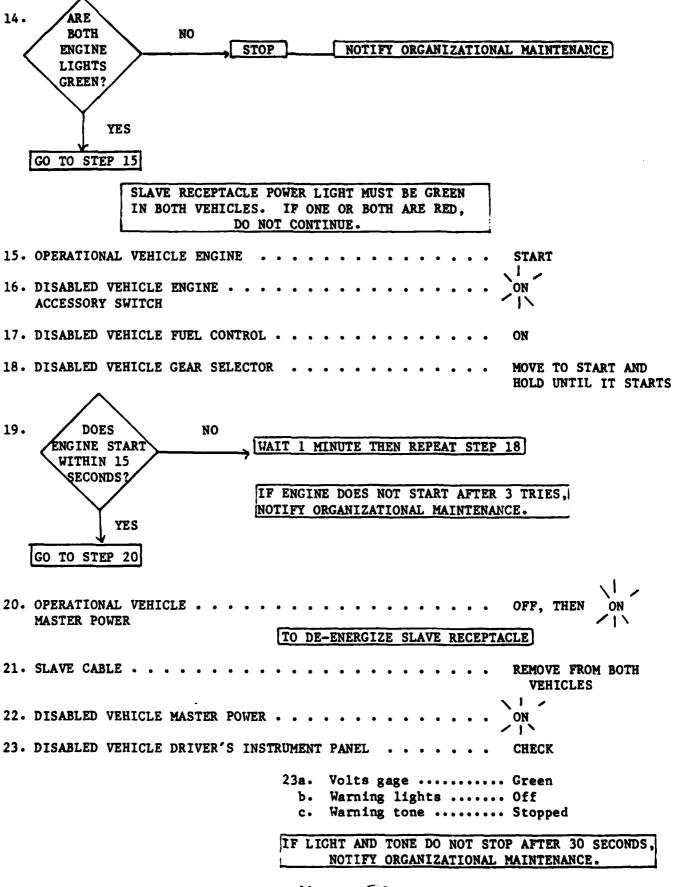
KAN SACERSER - EXERCISE KAN

Slave Start - Start Engine With Outside Power Source

OUTSIDE POWER CAN BE AN OPERATIONAL VEHICLE OR A 24V POWER SOURCE.

STEPS 1 THRU 8 APPLY TO BOTH OPERATIONAL AND DISABLED VEHICLES.

•	AND DIGHDED VERTOLDS.
1.	MASTER POWER SWITCH OFF
2.	ENGINE ACCESSORY SWITCH OFF
3.	TURRET POWER SWITCH OFF
4.	FIRE SUPPRESSION SWITCH MANUAL
5.	STARTER CUTOUT OVERRIDE SWITCH OFF
6.	FWD AND REAR BILGE PUMP SWITCHES OFF
7.	SMOKE SCREEN GENERATOR SWITCH OFF
8.	COLD START SWITCH OFF
•	SLAVE CABLE MUST BE OBTAINED FROM ORGANIZA- TIONAL MAINTENANCE.
9.	SLAVE CABLE INSTALL - BOTH VEHICLES
10	OPERATIONAL VEHICLE ON MASTER POWER SWITCH
11	SLAVE RECEPTACLE POWER LIGHTS CHECK
12	EITHER LIGHT RED? NO
13	GO TO STEP 13 ENERGIZE SLAVE RECEPTACLE BUTTON PRESS ON OPERATIONAL VEHICLE
statestatestatesta	



Tow Disabled Vehicle

DO NOT TOW VEHICLE WITH DAMAGED TRANSMISSION. NOTIFY ORGANIZATIONAL MAINTENANCE

1. REAR OF TOWING VEHICLE AND . . . ALIGN FRONT OF DISABLED VEHICLE

IF TOWING WITH TOW BAR, DO STEPS 2 THRU 4; IF TOWING WITH CABLE, GO TO STEP 5

	2.	TWO	PINS	AND	SHAC	CKLES		•	•	•	•		REMOVE FROM 2 TOWING EYES ON DISABLED VEHICLE
(H)	3.	TOW	BAR	• •	• •	• •	• •	•	•	•	•	•	INSTALL ON FRONT OF DISABLED VEHICLE
(H)	4.	TOW	BAR	• •	• •			•	•	•	•	•	INSTALL ON PINTLE OF TOWING VEHICLE
													GO TO STEP 9
	5.	TOW	CABLE	E .				•	•	•	•	•	REMOVE FROM DISABLED VEHICLE
	6.	TOW	CABLE	E •		• •		,•	•	•	•	•	REMOVE FROM TOWING VEHICLE
	7•	FOUR	PINS	S ANI	SHA	ACKLE	s.	•	•	•	•	•	REMOVE FROM REAR OF TOWING VEHICLE (2) AND FRONT OF DISABLED VEHICLE (2)
	8.	TOWI	ing ca	ABLES	s .	• •	• •	•	•	•	•	•	INSTALL LEFT REAR OF TOWING VEHICLE TO RIGHT FRONT OF DISABLED VEHICLE. RIGHT REAR OF TOW- ING VEHICLE TO LEFT FRONT OF DISABLED VEHICLE.
	9.	DRIV	'ER'S	HAT	сн с	OVER		•	•	•	•	•	CLOSE
	10.	DISA	BLED	VEH	CLE	GEAF	SE	LEC	TO	R	•	•	MOVE TO TOW AND LOCK
	11.	HAND	BRAI	KE II	N DIS	SABLE	D V	EHI	CL	E ·	•	•	RELEASE
(G)	12.	TURE	ET II	N DIS	SABLI	ED VI	HIC	LE	•-	•	•	•	TRAVERSE TO 3200 mils
	13.	ENG1	NE I	N TO	JING	VEH1	CLE	•	•	•	•	•	START

ALL PERSONNEL MUST STAY CLEAR OF TAUT CABLES

DO NOT TOW AT SPEEDS GREATER THAN 15 MPH WITH TOW BAR OR 5 MPH WITH CABLE OR OVER ROUGH TERRAIN.

13.	TOWING VEHICLE GEAR SELECTOR	SET TO DRIVE, LOW OR REVERSE -
		DO NOT USE REVERSE WITH CABLES
14.	HEADLIGHTS	OPERATE — IF TACTICAL SITUATION PERMITS
15.	HORN	SOUND —— IF TACTICAL SITUATION PERMITS
16.	VEHICLES	MOVE, AT CONTROLLED SPEED
17.	VEHICLES	STOP WITHOUT BRAKING — COAST TO A STOP
18.	HAND BRAKE	SET
19.	TOWING VEHICLE ENGINE	STOP
	DO STEP 21 or 22)	
21.	TOW BAR	DISCONNECT FROM PINTLE OF TOWING VEHICLE AND TOWING EYES OF DISABLED VEHICLE
22.	TOWING CABLES	REMOVE FROM TOWING EYES AFTER DRIVING BACKWARD UNTIL CABLES SLACK

Tow Start

1.	TWO VEHICLES CONNECT WITH TOWING DEVICE
2.	BEFORE OPERATIONS PMCS DO
3.	DISABLED VEHICLE MASTER ON POWER SWITCH
4.	DISABLED VEHICLE ENGINE ON ACCESSORY SWITCH
5.	DISABLED VEHICLE FUEL ON CONTROL HANDLE
6.	DISABLED VEHICLE HAND RELEASE BRAKE
7•	DISABLED VEHICLE GEAR MOVE TO TOW AND LOCK SELECTOR
8.	TOWING VEHICLE ENGINE START
9•	TOWING VEHICLE TOW DISABLED VEHICLE AT SPEED OF 10-15 MPH (15-25 KMPH)
10.	DISABLED VEHICLE GEAR MOVE TO TOW START
	SELECTOR
11.	DOES DISABLED VEHICLE ENGINE START? YES GO TO STEP 12
11.	DOES DISABLED VEHICLE ENGINE START? YES GO TO STEP 12
12.	DOES DISABLED NO VEHICLE ENGINE START? YES GO TO STEP 12 DISABLED VEHICLE GEAR MOVE TO DRIVE
12.	DOES DISABLED VEHICLE ENGINE START? YES GO TO STEP 12 DISABLED VEHICLE GEAR MOVE TO DRIVE SELECTOR
12. 13. 14.	DOES DISABLED NO IF ENGINE DOES NOT START WITHIN 30 SECONDS OF TOWING AT 10-15 MPH, STOP AND NOTIFY ORGANIZATIONAL MAINTENANCE GO TO STEP 12 DISABLED VEHICLE GEAR MOVE TO DRIVE SELECTOR BOTH VEHICLES STOP
12. 13. 14.	DOES DISABLED VEHICLE ENGINE START? YES GO TO STEP 12 DISABLED VEHICLE GEAR MOVE TO DRIVE SELECTOR BOTH VEHICLES STOP GEAR SELECTOR BOTH VEHICLES NEUTRAL HAND BRAKES SET

WATER OPERATIONS

(G)

(H)

(H)

Ford Water Greater Than 1-1/2 Feet, Less Than 3-1/2 Feet Deep

1.	FRONT/REAR HULL DRAIN PLUGS	• CLOSE
2.	TWO FINAL DRIVE HULL DRAIN PLUGS	• SECURE
3.	FOUR UPPER HULL DRAIN PLUGS	• SECURE
4.	BILGE PUMPS	• CHECK OPERATION
5.	RAMP	• RAISE —— SOUND HORN IF TACTICAL SITUATION PERMITS
6.	ENGINE	• START
7.	FWD AND REAR BILGE PUMP SWITCHES	. MOVE TO ON
8.	WATER	• FORD
9.	FWD AND REAR BILGE PUMP SWITCHES	. MOVE TO OFF — AFTER BILGES: ARE EMPTY.
Pre	pare to Enter Water - Swim	
1.	4 HATCH COVERS	OPEN
2.	25mm GUN	ELEVATE TO 550 mils
3.	RAMP	LOWER
4.	FINAL DRIVE HULL DRAIN	CHECK
5.	FRONT/REAR HULL DRAIN PLUGS	CLOSE
6.	FIRING PORT WEAPONS	REMOVE
7.	FIRING PORT VENTS	CLOSE
8.	TWO FRONT UPPER HULL DRAIN PLUGS	REMOVE

	9.	TWO REAR DRAIN PLU		HULL	• • •	• •	• •	REMOV	E			•	
	10.	RAMP		• • •			• •	CHALK	AND RA	AISE;	CHECK SEA	L .	
	11.	RAMP ACCE	SS DC	OR .	• • •		• •	CHALK	AND CI	LOSE;	CHECK SEA	L	
•	12.	EXHAUST S	HROUI		• • •		• •	RAISE					
	13.	WATER BAR	RIER		• • •	• •	• •	ERECT	<u> </u>	ee P.	17		
	Dri	ve in Wate	<u>r</u>										
			DO NO	T WEA	R SEAT	BEL	TS OR	SHOUL	DER HAI	NESS			
	1.	ENGINE .							START				
	2.	FWD AND R	EAR F	BILGE	PUMPS			• •	ON				
	3.	VEHICLE		• • •	• • •	• •	• • •		•			POINT AND	
(C)	4.	INTERCOM	• • •						DIRECT	STEE	ERING		
	5.	VEHICLE	• • •					• •	DRIVE,	TURN	, REVERSE	;	
									OFF AC	CCELER OMETER	_	TAKE FOOT L AND LET RO. THEN	
					LY BRA				NG IN V	-	1		
	6.	VEHICLE	• • •	• • •	• • •		• • •	• •	EXIT :		RFORM POST	-swimming	
	Pos	t-Swimming	Oper	ation	18								
	1.	UPPER TRI	M VAN	ie .	• • •	• •			. REI	LEASE			
	2.	VEHICLE			• • •	• •			. DR	LVE TO	FIRM, LE	VEL GROUND	
	3.	HAND BRAN	E. .	• •	• • •				. SE	r			
	4.	ENGINE	• • •	• •	• • •	• •		• • •		LE FOR		2 MINUTES	TO
							16	(=					

5.	FUEL CONTROL OFF
6.	ENGINE ACCESSORY SWITCH OFF
7.	FWD AND REAR BILGE PUMPS SWITCHES MOVE TO OFF — AFTER WATER IS OUT OF VEHICLE.
8.	MASTER POWER OFF
9.	WATER BARRIER STOW — SEE p. 18-19
10.	FRONT AND REAR BILGE DRAIN WATER
11.	UPPER HULL DRAIN PLUGS INSTALL
12.	HUBCAP AND FINAL DRIVE OILS CHECK FOR WATER BUBBLES OR WHITE COLOR —
	IF FOUND NOTIFY ORGANIZATIONAL MAINTENANCE.
Erec	t Water Barrier
1.	LEFT SIDE TRIPOD ERECT
2.	RIGHT SIDE TRIPOD UNSTOW AND ERECT
3.	WATER BARRIER UNSTOW
	<pre>3a. Flaps Lift b. Barrier Sides Pull Out/Unroll and Front</pre>
	<pre>c. Metal Cover Open d. Barrier Rear Pull Out</pre>
	e. Barrier Pull Up Onto Sides of Hull f. Struts and Bilge Place On Inside Pump Exhaust Pipes
	g. Water Barrier Pull On Top of Trim Vaneh. Water Barrier Fasten To Trim Vane
4.	REAR WATER BARRIER ERECT
	4a. Rear
	c. Center Strut In Hull Cupd. Barrier Corners Pull Up Over Tripods

5. SIDES OF	WATER BARRIER ERECT
6a.	Two Cable Eyelets Attach To Trim Vane
(H)b.	
C•	
d.	
e.	Water Barrier Forward and Latched
	Release Lever
f.	2 Blocks Remove From Left and
	Right Brackets; Install In Slides
g•	
h•	
i.	66
	Exhaust Pipes
j•	Struts Into Cups 1 /
	Master Power Move to ON
1.	Bilge Pump Move to ON Switches
m.	
ш•	Operation PUMPS DON'T WORK
n•	
 -	Switches
0•	Metal Cover Raise
p •	
q•	<u> </u>
r.	Master Power Off
Stow Water Bar	<u>rier</u>
1. TRIM VANE	· · · · · · · · · · · · STOW
1a•	Ramp Lower
b •	
c.	Bilge Pump Remove From Bilge Pump Outlet
	Exhaust Pipes
d•	Struts Remove From Cups
e.	
f.	
(H)g.	Water Barrier Squeeze and Pull Release Lever To
•	Locking Lever Raise Trim Vane To Vertical Position
h•	Water Barrier Push Off Upper Trim Vane
1.	Cable Eyelets Remove
j. (H)k.	Upper Trim Vane · · · · Fold To Locked Position Snaps · · · · · · · · · · · Unfasten
(H)1.	
(11)1•	TIAM AGUS AND

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2.	TRIPODS	STOW
		able Ends and Remove From Tripods and Cup
	_	later Barrier Remove Corners
	c. T	ripods Remove Right Side and Stow; Stow Left Side
3.	FRONT OF WAT	ER BARRIER STOW
	3a. B	Barrier Pull Off Hull
	b. 0	Cords Tuck In
	c. B	Barrier Fold/Roll Into Trough
	d. B	Sarrier Secure With Flaps
4.	REAR OF WATE	R BARRIER STOW
		Metal Cover Open
		Sarrier Corners/ Fold/Roll Into Trough
	c. B	Barrier Secure with flaps
	d. M	Metal Cover Close and latch
5.	SIDES OF WAT	TER BARRIER STOW
	(H) 5a. B	Barrier Fold/Roll Into Trough
	b• B	Bilge Pump Place In Troughs
		Exhaust Pipes
		Cords and Struts
	c. B	Barrier Secure With Flaps
6.	CARGO HATCH	COVER CLOSE
7•	HORN	SOUND — IF TACTICAL SITUATION: PERMITS
8.	RAMP	RAISE

			- •		ER		_						
			CLEAN/CLEAR	DAMAGE/TAMPERING	PLACE	ECK		MISSING PARTS	OPERATION	POSITION	PRESSURE	SECURE	STATUS
LOCATION	SYSTEM	EQUIPMENT	CL	DA	Z	LEAKS	LEVEL	MIS	OPE	POS	PRE	SEC	STA
	VEHICLE	ALL	X	X	_	X		X					L
	FINAL DRIVE	HULL DRAIN PLUGS		_	х			x				x	
HULL	DRIVER'S	COVER	_	X				X	х				L
EXTERIOR	натсн	SAFETY PIN			x				x			X	
	ENGINE	OIL	X				X						L
		TRANSMISSION OIL	x				x						
	EXTERNAL FIRE SUPPRESSION	WIRES, SEALS		х	х			Х					
	FIRE	SWITCH	1	<u> </u>		_	_		х	x			X
	SUPPRESSION (AUTOMATIC)	WIRES, SEALS	1_	X	x	<u> </u>		X		_			
HULL	SQUAD, ENGINE AREA	DISCHARGE LIGHTS PORTABLE		X	X	_	_				X		Х
INTERIOR	DRAIN PLUGS	FRONT AND REAR	+		x			X				х	
	DRIVER'S SEAT	SEAT		x				х	x	х			

	PMCS - D	URING OPERATIONS	- D	RIVI	ER				
					CHI	ECK			
			CLEAN/CLEAR	DAMAGE/TAMPERING	IN PLACE	LEAKS	OPERATION	STATUS	
LOCATION	SYSTEM	EQUIPMENT						S	
	DRIVER'S HATCH	COVER		X		\vdash	X	Н	
HULL EXTERIOR		SAFETY PIN			X		X		
	RAMP	RAMP	X	_		X	X		
		LIGHT				Н	X	X	
	THOMSTHONE	VOLTS GAGE	 				X	X	
	INSTRUMENT PANEL GAGES	ENGINE COOLANT GAGE	<u> </u>	_			X	X	
		ENGINE OIL GAGE					x	x	
		COOLANT LOW LEVEL					x	x	
	INSTRUMENT PANEL WARNING	TRANS OIL PRESSURE					X	x	
	LIGHTS	TRANS OIL TEMP					x	x	
DRIVER'S COMPARTME	NT	AIR CLEANER CLOGGED					x	x	
		LENSES	x	x	x				·
	PERISCOPES	BLACKOUT COVERS			x		x		
		HEATER				X	х		See p. 22
	PERSONNEL	DUCT AREA	x				x		
	HEATER	FUEL LINES/ FITTINGS				x			
		ACCELERATOR PEDAL GEAR SELECTOR					x		
	DRIVER'S CONTROLS	STEERING YOKE					x		
		VEHICLE BRAKES					X	 	

1. MASTER POWER PRESS-TO-TEST SWITCH . PRESS TO CHECK PERSONNEL HEATER LIGHT RUN-OFF-START SWITCH MOVE TO START AND HOLD UNTIL LIGHT COMES ON -NO LONGER THAN 3 MINUTES RUN-OFF-START SWITCH MOVE TO RUN -DO NOT STOP AT OFF IS PERSONNEL NO REPEAT STEPS 2 THRU 4 HEATER LIGHT NO MORE THAN 3 TIMES ON? BEFORE NOTIFYING ORGANIZATIONAL MAIN-TENANCE. YES GO TO STEP 6 HI-LO SWITCH SELECT HEAT AS NEEDED 7. RUN-OFF-START SWITCH . . . MOVE TO OFF WHEN FINISHED DRIVER MUST REMAIN IN VEHICLE WITH MASTER POWER ON UNTIL HEATER COOLS AND PERSONNEL HEATER LIGHT GOES OFF ONLY AFTER HEATER 8. MASTER POWER LIGHT GOES OFF.

PMCS - Check Operation of Personnel Heater

		,	<u> </u>	2	CH	ECK					E .	П	
I OCATTON	System	equipment	CLEAN/CLEAR	DANAGE/TAMPERING	HEAT	IN PLACE	LEAKS	LEVEL	OPERATION	POSITION	PRESENCE OF WATER	STATUS	TENSTON
LOCATION	SISIER	GAGE						X			7		7
HULL	FUEL	FILTER	X		H		X		口		X	\rightrightarrows	丰
	TRANSMISSION	OIL OIL FILTER	-		Н	Ц	×	X	\dashv				+
	ļ	INDICATOR	 		Н	\dashv	{	\dashv	-	X	{	X	+
	-	HOSES		X	Н	X	퓌	Ŧ	Н	$\vdash \downarrow$		-	- -
	COOLING	BILGE AREA	I		口						I	_	#
		INTAKE SCREEN	x		Ц		X	_			_		\bot
	RIGHT ANGLE FAN DRIVE	OIL	X		Ш		I	I					\perp
	FINAL DRIVE	OIL					I	I			x		
	ENGINE	HOSES, CLAMPS, FITTINGS		×			x						,
		OIL	\Box		口		Î	I			X	\exists	#
		SHOCK ABSORBERS ROAD WHEELS		X	X	X			X				+
	Suspension	IDLERS, SUPPORT		X		X			X				
	CREW MEMBERS	WHEEL MOUNTING HOLES, FASTENERS											1,
	ASSIST DRIVER WITH	HUBS SIGHT GLASSES	X	X	X	X	X	X		\vdash	X	\Box	+
	SUSPENSION	TRACK ADJUSTED	F	X	日			耳		日		日	X I
		WHEEL MOUNTING HOLES, FASTENERS HUBS SIGHT GLASSES TEACK TRACK ADJUSTER FITTING, BLEED VALVE TRACK PIN NUTS TRACK GUIDES		•								,	
		TRACK PIN NUTS	\ddagger	X	口	X		コ					#
L		TRACK GUIDES	1_	<u> </u>	Ш	X	الل						

PMCS - WEEKLY - DRIVER

1.	ROAD WHEELS CHECK FOR BROKEN TORSION BARS
2.	BATTERIES CHECK PRESENCE, STATUS
3.	RAMP HYDRAULIC POWER UNIT CHECK CONNECTIONS, FLUID
4.	TRIM VANE CHECK FOR DAMAGED PARTS, BROKEN MESH
5.	TRIM VANE LATCH CHECK OPERATION
	PMCS - MONTHLY - DRIVER AND CREW
	ANADENATAN ARAMA
1.	SUSPENSION SYSTEM CHECK
	la. Road Wheels, Support Rollers Separation, Pitting, Chunking
	b. Wheel Arms Broken or Bent
	c. Track Shoe Pads Worn or Missing
	d. Drive Sprocket Teeth Worn, Broken, Cracked
	e. Track Shoes Broken or Cracked
	f. Truck Pin Nuts Centered
2.	RIGHT ANGLE FAN DRIVE CHECK OIL LEVEL
3.	EXTERIOR VEHICLE LIGHTS CHECK OPERATION
4.	BILGE PUMPS CHECK OPERATION
5.	COOLANT PUMP BELT CHECK STATUS AND OPERATION