

INSTALLATION ITEM LIST

ITEM NO.	CAGE CODE	PART OR IDENTIFYING NO.	QTY REQD	NOMENCLATURE OR DESCRIPTION	SPECIFICATION	MATERIAL
1	19207	12463648	1	BAR, RETAINING		
2	19207	12463647	2	POST, RETAINING BAR		
3	19207	12463658-1	4	STRAP ASSEMBLY, TANK		
4	19207	12463657	4	TIEDOWN ASSEMBLY		
5	19207	12463659	2	STRAP ASSEMBLY, PUMP		
6	19207	12463670	1	BAR, RETAINING, REAR		
7	96906	MS51971-9	12	NUT, PLAIN, HEX, .875-9 UNC-2B, CRES		
8	19207	12463655	2	JACK POST, BAR		
9	96906	MS45905-C13	12	NUT, PLAIN, HEX, .875-9 UNC-2B-LH, CRES		
10	96906	MS35691-67	4	NUT, PLAIN, HEXAGON (JAM), .875-9 UNC-2B		
11	96906	MS35338-147B	4	WASHER, LOCK SPRING, .875 NOM		
12		NAS1149C1490R	4	WASHER, FLAT, .875 NOM		
13	97403	13228E4527-4	10	LINK, CHAIN, DETACHABLE (SEE PROCEDURE R)	*	
14	19207	12463658-2	2	STRAP ASSEMBLY, TANK		
15	97403	13230E4699-5-12	6	CLOTH TUBING, 6.00 X 12.00 L		
16		MS3367-2-0	6	STRAP, TIEDOWN		

REFERENCE SEE NOTE 2

NOTES: * VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING

INSTALLATION PROCEDURES: (CONTINUED)

1. APPLICABLE STANDARDS/ SPECIFICATIONS:

- A. DOD-STD-00100D(AR)
- B. ANSI Y14.5M-1982

2. THESE INSTRUCTIONS ARE FOR INSTALLING THE FOLLOWING KIT IN WHICH ALL ITEMS IN THE INSTALLATION ITEM LIST ARE PROVIDED:

57K1954-TIEDOWN KIT, TANK AND PUMP UNIT-FMTV M1083/A1, M1093/A1

3. THESE INSTRUCTIONS ARE FOR INSTALLING THE TANK AND PUMP UNIT, EITHER DRAWING NO. 13217E7130 OR DRAWING NO. 13228E2150, ONTO THE FOLLOWING:

FAMILY OF MEDIUM TACTICAL VEHICLES (FMTV), M1083/A1, M1093/A1

INSTALLATION PROCEDURES:

NOTE

IT IS NOT NECESSARY TO FOLLOW INSTALLATION PROCEDURES IN SEQUENCE NOTED. IT WILL BE ADVANTAGEOUS TO BECOME FAMILIAR WITH PROCEDURES PRIOR TO STARTING, SO THEY CAN BE REARRANGED, IF NECESSARY, IN AN EFFICIENT SEQUENCE SUITABLE FOR EXISTING FACILITIES. INSTALLATION PROCEDURES ARE AS FOLLOWS:

WARNING

BEFORE PROCEEDING WITH THE FOLLOWING, REVIEW ALL SAFETY PROCEDURES IN THE TECHNICAL MANUALS (TM'S) SUPPLIED WITH THE EQUIPMENT. FAILURE TO OBSERVE ANY APPLICABLE WARNING OR CAUTION MAY RESULT IN PERSONAL INJURY OR LOSS OF LIFE AND DAMAGE TO THE EQUIPMENT.

WARNING

FOR SPECIFIED PRETENSIONING OF TURNBUCKLES, DO NOT OVERTIGHTEN. FOR TM NOTATION, INDICATE TO INSPECT PERIODICALLY.

- A. CLEAN CARGO DECK (REMOVE DEBRIS, SAND, LOOSE PAINT) AND INSPECT FOR FLATNESS. DO NOT INSTALL TPU ON SEVERELY WARPED DECK.
- B. DISENGAGE LOCK PINS FROM CRANE POCKETS (ACCESS IS GAINED FROM UNDER THE CARGO DECK) AND REMOVE CRANE POCKET COVERS, IF SO EQUIPPED.
- C. ASSEMBLE FRONT RETAINING BAR, ITEM NO. 1, WITH ONE OF THE RETAINING BAR POSTS, ITEM NO. 2, WITH STEM OF EACH COMPONENT EXTENDED IN THE SAME DIRECTION.
- D. LIFT ASSEMBLED RETAINING BAR AND POST ASSEMBLY AND POSITION THE BAR WITH THE STEMS INSTALLED IN THE 4 INCH BY 4 INCH FRONT CRANE POCKETS AS SHOWN. INSURE THAT VERTICAL FACES OF GUSSETED RECEIVER PLATES OF RETAINING BAR ASSEMBLY FACE THE REAR OF THE FMTV.
- E. INSTALL THE TWO FRONT LOCK PINS (DISENGAGED IN PROCEDURE B) THROUGH THE MATED CRANE POCKETS AND RETAINING BAR STEMS. INSURE THAT PINS EXTEND THROUGH BOTH SIDES OF POCKET.
- F. INSTALL TWO (2) BAR JACK POSTS, ITEM NO. 8, ON FRONT RETAINING BAR ASSEMBLY BY INSTALLING A NUT, LOCKWASHER AND FLAT WASHER, ITEM NO. 10, 11 AND 12, ONTO THREADED ROD END OF JACK POST. INSERT ROD END INTO VERTICAL GUSSETED RECEIVER PLATES OF THE RETAINING BAR ASSEMBLY AND THEN INSTALL ANOTHER FLAT WASHER, LOCKWASHER AND NUT, ITEM NO. 12, 11 AND 10 ONTO THREADED ROD. DO NOT TIGHTEN NUTS AT THIS TIME.
- G. LIFT TANK NO. 1, USING LIFT RINGS ON TANK, INTO POSITION AS SHOWN. INSURE THAT THE TANK DISPENSING VALVE FACES THE REAR OF THE FMTV. POSITION TANK TO INSURE MATING OF THE PROTRUDING TANK SKID TUBES WITH RECEIVER POCKETS IN SKID BASE OF TANK NO. 2. SLIDE TANK AS FAR FORWARD AS POSSIBLE.
- H. INSTALL THE 2 INCH DIA BY 90 INCH L HOSE ASSEMBLY, PART OF TANK AND PUMP UNIT, ON TANK NO.1 DISPENSING VALVE AND LAY OUT ALONG THE DECK TOWARDS THE REAR OF THE VEHICLE.

INSTALLATION PROCEDURES: (CONTINUED)

- I. LIFT TANK NO. 2, USING LIFT RINGS ON TANK, INTO POSITION AS SHOWN. INSURE SKIDS STRADDLE THE HOSE ASSEMBLY LAYED OUT ON THE DECK. POSITION TANK TO INSURE MATING OF THE PROTRUDING SKID TUBES OF TANK NO. 1 WITH THE RECEIVERS OF TANK NO. 2 AND SLIDE TANK AS FAR FORWARD AS POSSIBLE.
- J. INSTALL THE 2 INCH DIA BY 26 1/2 INCH L HOSE ASSEMBLY, PART OF TANK AND PUMP UNIT, ON TANK NO. 2 DISPENSING VALVE AND LAY OUT ALONG THE DECK TOWARDS THE REAR OF THE VEHICLE.
- K. LIFT THE PUMP UNIT AND POSITION ON THE VEHICLE WITH HOSE NOZZLES TOWARDS THE REAR OF THE TRUCK. INSURE INTERLOCKING PROTRUSIONS ON TANK NO. 2 SKID BASE ENGAGE WITH RECEIVERS ON PUMP BASE AND SLIDE PUMP AS FAR FORWARD AS POSSIBLE.
- L. CONNECT THE TWO TANK DISPENSING VALVE HOSES, PREVIOUSLY LAYED OUT ON THE DECK, TO THE PUMP UNIT PUMPING ASSEMBLY MANIFOLD.
- M. ASSEMBLE REAR RETAINING BAR, ITEM NO. 6, AND RETAINING BAR POST, ITEM NO. 2, SO THAT THE STEM OF EACH IS EXTENDING IN THE SAME DIRECTION.
- N. POSITION THE RETAINING BAR ASSEMBLY, ASSEMBLED IN PROCEDURE M, IN THE REAR 4 IN. X 4 IN. CRANE POCKETS. INSTALL THE BAR WITH THE STIFFENING RIB SECTION EXTENDING TOWARDS THE REAR OF THE VEHICLE.
- O. INSTALL THE TWO REAR LOCK PINS (DISENGAGED IN PROCEDURE B) THROUGH THE MATED CRANE POCKETS AND REAR BAR STEMS. INSURE THAT PINS EXTEND THROUGH BOTH SIDES OF POCKET.
- P. USING EACH BAR JACK POST, INSTALLED IN PROCEDURE F, JACK BOTH TANKS AND PUMP UNIT TIGHTLY AGAINST REAR BAR. TURN JACK POST HEX NUTS UNTIL 75 LB-FT OF TORQUE IS REACHED. LOCK JACK BAR IN POSITION BY TIGHTENING LOCKING NUT AGAINST REAR OF GUSSETED VERTICAL PLATES.

ZONE		REV	DESCRIPTION	DATE	APPROVED
-	-	-	PRODUCT BASELINE ERR TA57K1764-	96/12/20	SCOTT NIER
-	A	-	SEE ECP NO. 97HE3090	97/05/13	SCOTT NIER
-	B	-	SEE ECP NO. RAD-B1002	97/12/23	A. SCHUIT
-	C	-	SEE ECP NO. RAD-B1013	98/03/31	E. HELLWIG
D7	D	-	1)ITEM 3 OF TABLE QTY 4 WAS 8 2)NEXT ASSY BLK 57K1954, 57K1954 WAS 57K1764, 57K1764 3)USED ON BLK M1093/A1, M1083/A1 WAS 8750269, 8750214 4)REVISED NOTE 2 5)REVISED NOTE 3		
A4			ERR TACU6718	2004-07-29	D.STANDISH ADJ SEH

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

ALL SHEETS ARE THE SAME REVISION

PART NO. 12463671

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NUMBER DAAK70-92-D-0004	U.S. ARMY TANK AUTOMOTIVE COMMAND WARREN, MICHIGAN 48397-5000	
TOLERANCES ON: 2 PLACES ± .005 3 PLACES ± .003 ANGLES ± .005		CONTRACTOR RADIAN INC ALEXANDRIA, VIRGINIA	INSTALLATION INSTRUCTIONS, TIEDOWN KIT, TANK AND PUMP UNIT, FMTV M1083/M1093	
57K1954	M1083/A1	QA AUDIT	DRAWN BY N. MUNRO	DATE 96-05-10
57K1954	M1093/A1	DESIGN MANAGER/LEADER	CHECKER Q.C.GRL	ENGINEER CS
SEE ENGINEERING RECORDS			DRAWING APPROVAL SCOTT L. NIER	
NEXT ASSY	USED ON	MATL ENGR	DESIGN APPROVAL PAUL L. PROPST	
APPLICATION				

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DWG NO. 12463671

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