

REVISIONS			
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED
-	INITIAL RELEASE -PRODUCT BASELINE- ERR SSS-U5732		
A	1) REVISED SHEET 71 – ADDED A0 SPECIFIC INFORMATION 2) ADDED SHEETS 72 & 73 ERR SSS-U5809	02-04-01	JN
B	REVISED AND REDRAWN ERR SSS-U7331		D.GRANTHAM
		03-03-26	HJH DG

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PMIC A		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MM TOLERANCES ON: 2 PLACES 3 PLACES ± — ± —	CONTRACT NUMBER DAAE07-99-C-S030		DESIGN ACTIVITY U. S. ARMY, TANK-AUTOMOTIVE COMMAND WARREN, MI 48397-5000		
			CONTRACTOR STEWART & STEVENSON, TVS LP SEALY, TX 77474		DIGITIZATION RACK, DIGITIZATION HARNESS AND STOWAGE BOX-INSTL INSTRUCTIONS		
			DRAWN BY K.ROMAN	DATE 01-08-14			
			CHECKER D.GRANTHAM	ENGINEER D.GRANTHAM			
		QA P.FEISTER	DRAWING APPROVAL-GOVT AL TAYLOR		SIZE A	CAGE CODE 19207	DWG NO. IM57K2012
NEXT ASSY	USED ON	MATERIAL ENGINEER M.CHURCH	DESIGN APPROVAL-GOVT AL TAYLOR				
APPLICATION					SCALE NONE	UNIT WT —	SHEET 1 OF 1 OF 73

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Reference Documents: TM 9 - 2320 – 391 / 392 – 20 (for A1 trucks)
 TM 9 - 2320 – 365 / 366 – 20 (for A0 trucks)

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SECTION I :

THREADED INSERT PLACEMENT

RADIO RACK

And

AFT STORAGE BOX

THREADED INSERT PLACEMENT

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SECTION I :

THREADED INSERT PLACEMENT

Section – Parts, Materials & Tools

TABLE 1. PARTS

NOMENCLATURE	PART NO.	QUANTITY
Radio Rack Top template	12422738	1
Radio Rack Back wall template	12422735	1
M6 Threaded inserts	12419169-005	16
Aft Storage Box Top Template	12422736	1
Aft Storage Box Wall Template	12422737	1
M8 Threaded inserts	12419169-007	3

NOTE: THE ABOVE TEMPLATES ARE SIMPLIFIED TEMPLATES OF THE ONES PICTURED HERE AND ARE INTENDED FOR SINGLE INSTALLATIONS. ALSO THE AIR TOOLS PICTURED HERE ARE FOR LARGE QUANTITY INSTALLATIONS. USE AVK HAND TOOLS SPECIFIED ON PAGE 5 FOR SINGLE INSTALLATIONS. THESE TOOLS ARE INCLUDED IN THE KIT.

TABLE 2. TOOLS/ EQUIPMENT

NOMENCLATURE	SIZE/ TOOL NO.
½ " or 3/8" power drill	
8mm Threaded insert tool (air driven)	AVK P/N AKPT6P815 (SPECIAL ORDER)
6mm Threaded insert tool (air driven)	AVK P/N AKPT6P610 (SPECIAL ORDER)
Needle nosed vise grips	
3/16" drill bit	
25/64" drill bit for M6 Threaded inserts	
17/32" drill bit for M8 Threaded inserts	
½" drill bit	
½" hole saw	
Eye protection	
Hearing protection	
Gloves	
Vacuum cleaner	
Small paint brush	
Carc paint	
Carc primer	
Deburr tool	

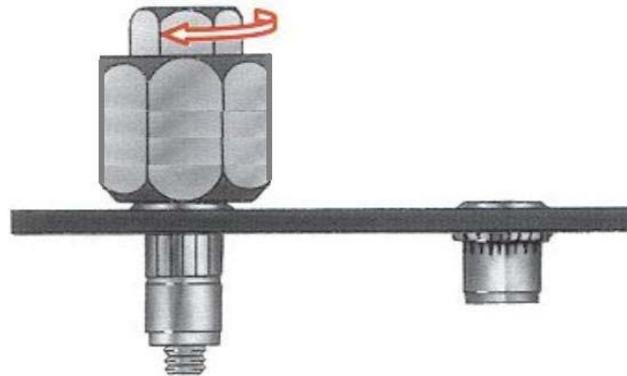
TABLE 3. REFERENCES

TITLE	DOCUMENT NO.
AVK INDUSTRIAL PRODUCTS Engineering Manual	EM-2 Rev. B

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SECTION I :

THREADED INSERT PLACEMENT



AVK INSTALLATION TOOL PROVIDED WITH KIT

NOMENCLATURE	SIZE/ TOOL NO.
6m Threaded insert tool	AVK P/N AA184-610
8m Threaded insert tool	AVK P/N AA184-8125

NOTE: THIS TOOL INTENDED TO BE USED FOR SINGLE KIT INSTALLATION.

SUGGESTED SOURCE FOR AVK PRODUCTS:

AVK INDUSTRIAL PRODUCTS
25323 RYE CANYON ROAD
VALENCIA CA.
91355-1271
TELEPHONE (661) 257-2329

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SECTION I :

THREADED INSERT PLACEMENT

DRILLING AND INSTALLING THREADED INSERTS THROUGH A PANEL



- Place template on back wall.
- Use a drill stop to prevent drill bits from going too deep.
- Use 3/16" drill bit to drill pilot hole through plastic and O/E material.
- Remove template.
- For a 6mm threaded insert use a 10mm or 25/64" drill bit. Use a drill stop.
- Use a 1/2" drill bit or 1/2" hole saw to clear away the plastic panel material to allow the threaded insert to reach the O/E metal.
- Do not go into the O/E metal.
- The plastic panel may be pulled away from the wall.
- Carc primer to seal bare metal.

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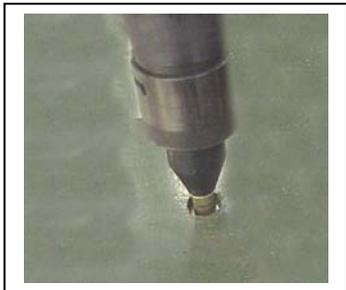
SECTION I :

THREADED INSERT PLACEMENT

DRILLING AND INSTALLING THREADED INSERTS THROUGH A PANEL



- Load threaded insert onto threaded insert tool.
- Threads of the tool should extend beyond the threaded insert.



- Push the threaded insert into the hole.
- The threaded insert will make contact with the metal.
- Tighten the threaded insert.



- Use (3) M6 – 12mm OD washers as spacers to fill the ½” hole.

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SECTION I :

THREADED INSERT PLACEMENT

Radio Rack

Note: templates displayed here are heavy duty templates (see 57K2043) and not the simplified templates supplied with kits.



Ref: (template 12422983 shown)

- Clear the threads of the bottom two 6mm holes using a M6 tap.
- Radio Rack Template Passenger 2, Back will be secured to these holes.
- Place Radio Rack Template Passenger 2, Back on the rear wall.
- Place spacer arm behind the quarter trim panel.
- If necessary remove top trim panel tabs.
- Secure template with (2) M6 x 25mm screws.

10mm socket
Ratchet.

Note: templates 12422735, 12422736, 12422737 and 12422738 are the same physical size as templates shown without drill bushing or placement angles attached.

- Use 3/16'' drill bit to drill a pilot hole through the (2) bushings.
- Remove template.

Power drill
3/16'' drill bit

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SECTION I :

THREADED INSERT PLACEMENT

Radio Rack



Ref: (template 12422982 shown)

- Place Radio Rack Roof Template- Passenger Roof 1 in right rear corner of the cab and clamp in place. (Arrow heads).
- Use 3/16'' drill bit to drill a pilot hole through the (6) bushings. (Arrows)
- Remove template.

Visegrips
Power drill
3/16'' drill bit

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SECTION I :

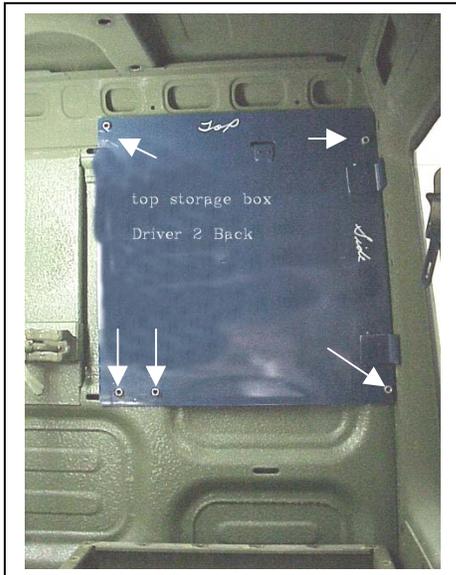
THREADED INSERT PLACEMENT

AFT STORAGE BOX



- Place Driver 2 template on the rear wall.
- Be sure template is in contact with sidewall.
- Use 3/16'' drill bit to drill a pilot hole through the (5) bushings.
- Remove template.

Power drill
3/16'' drill bit



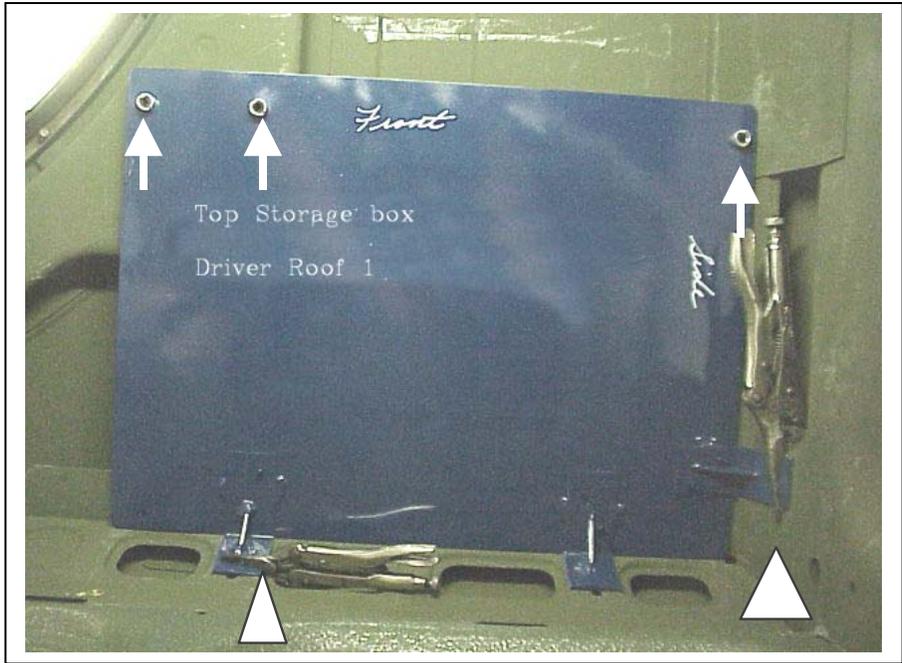
Ref: (template 12422980 shown)

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SECTION I :

THREADED INSERT PLACEMENT

AFT STORAGE BOX



Ref: (template 12422981 shown)

- Place Driver 1 roof template in the left rear roof corner and clamp in place. (Arrow heads)
- Be certain template is in contact with the rear and side wall.
- Use 3/16'' drill bit to drill a pilot hole through the (3) bushings. (Arrows)
- Remove template.
- Redrill the (3) 3/16'' forward pilot holes to 17/32'' or 13.5mm.
- Carc prime and paint bare metal.
- Install 8mm threaded inserts.

If needed deburr hole. (3) 8mm threaded inserts

8mm threaded insert tool	1/2'' power drill
Small brush	3/16'' drill bit
Carc paint	17/32'' drill bit
Carc primer	Vise grips

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SECTION I :

THREADED INSERT PLACEMENT

Right Quarter Trim panel



- Remove panel.
- Behind the passenger trim panel re-drill the last three trim tab holes to 25/64”.
- Carc prime and paint bare metal.
- Install 6mm threaded inserts.
- Reinstall panel.

- Redrill all remaining 3/16” pilot holes to 25/64” or 10mm.
- Carc prime and paint bare metal.
- Install 6mm threaded inserts.
- Remove/vacuum debris from cab.

25/64” drill bit

Power drill

(3) 6mm Threaded inserts

6mm threaded insert tool

Carc primer

Carc paint

Small brush

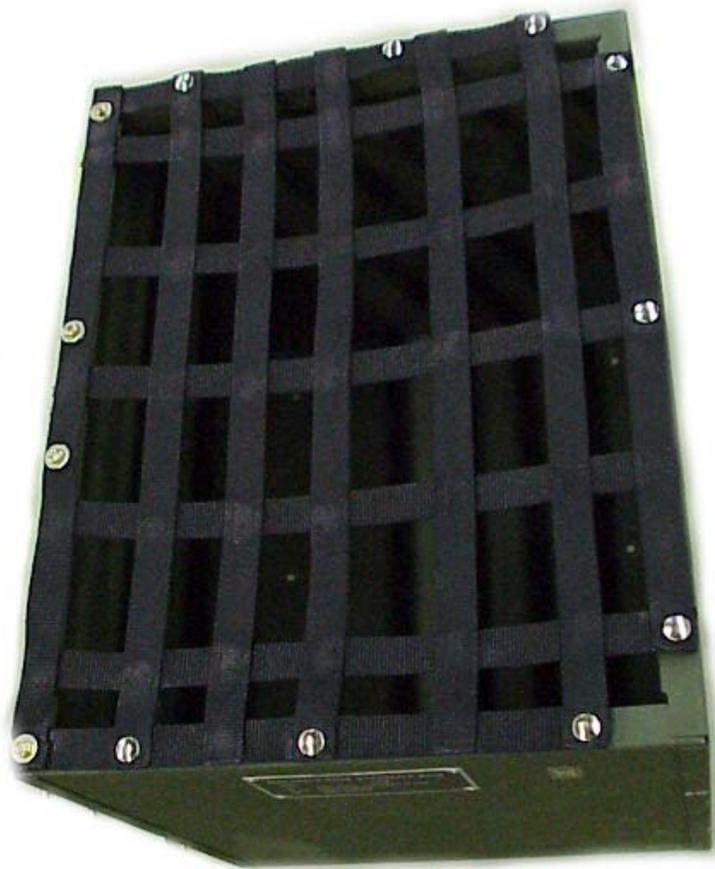
Needle nosed pliers

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SECTION II :

FMTV STOWAGE BOX MODIFICATION

**FMTV
STOWAGE BOX
MODIFICATION**



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SECTION II :

FMTV STOWAGE BOX MODIFICATION

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16	Pictures of parts and tools
17	Remove lid
18	Remove both latches
19	Remove support bar bracket
20	Remove rubber bumpers
21-22	Secure snap stud screws
23	Secure netting
24	Reinstall stowage box

SECTION II :

FMTV STOWAGE BOX MODIFICATION

Modify IAW 12422684

Section – Parts, Materials & Tools

TABLE 1. PARTS

NOMENCLATURE	PART NO.	QUANTITY
Stowage box	12418330	1
Snap, .164-32 x .50 SST mach screw stud	12422721	9
Washer, split helical lock .164	MS35338-42	9
Nut, hex plain .164-32	MS35649-284	9
Cargo netting, drivers stowage box	12422712	1
Screw, hex cap M6 x 1.0 x 16mm	12419954-076	4
Washer, flat M6 18 OD	12417975-006	4
Nut, flanged hex hd, prevailing torque, M6 x 1.0	12414308-016	4

TABLE 2. MATERIALS

NOMENCLATURE	PART NO.	QUANTITY
liquid thread locker IAW ASTM D5363 type AN3011 (equivalent to loctite 222)		
Touch up paint (not included with kit).		

TABLE 3. TOOLS/ EQUIPMENT

NOMENCLATURE	SIZE/ TOOL NO.
Phillips screw driver	
Hand ratchet	
10mm wrench	
7mm wrench	
11/32 standard socket	
7mm deep socket	
10mm deep socket	
2 inch socket extension	
Needle nosed pliers	

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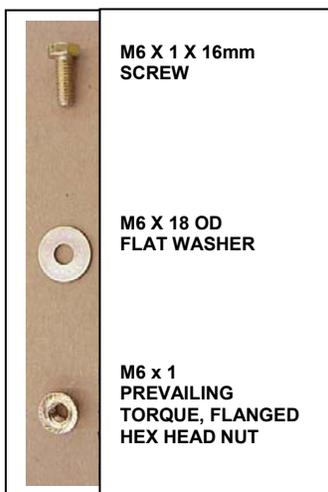
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SECTION II :

FMTV STOWAGE BOX MODIFICATION

Parts and Tools



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SECTION II :

FMTV STOWAGE BOX MODIFICATION

REMOVE LID



- Remove Stowage Box from vehicle.
- Remove lid from stowage box.
- Hold the screw head with a 10mm wrench on the outside while turning the nut with a ratchet and 10mm deep socket on the inside.

10mm wrench
10mm deep socket
Ratchet

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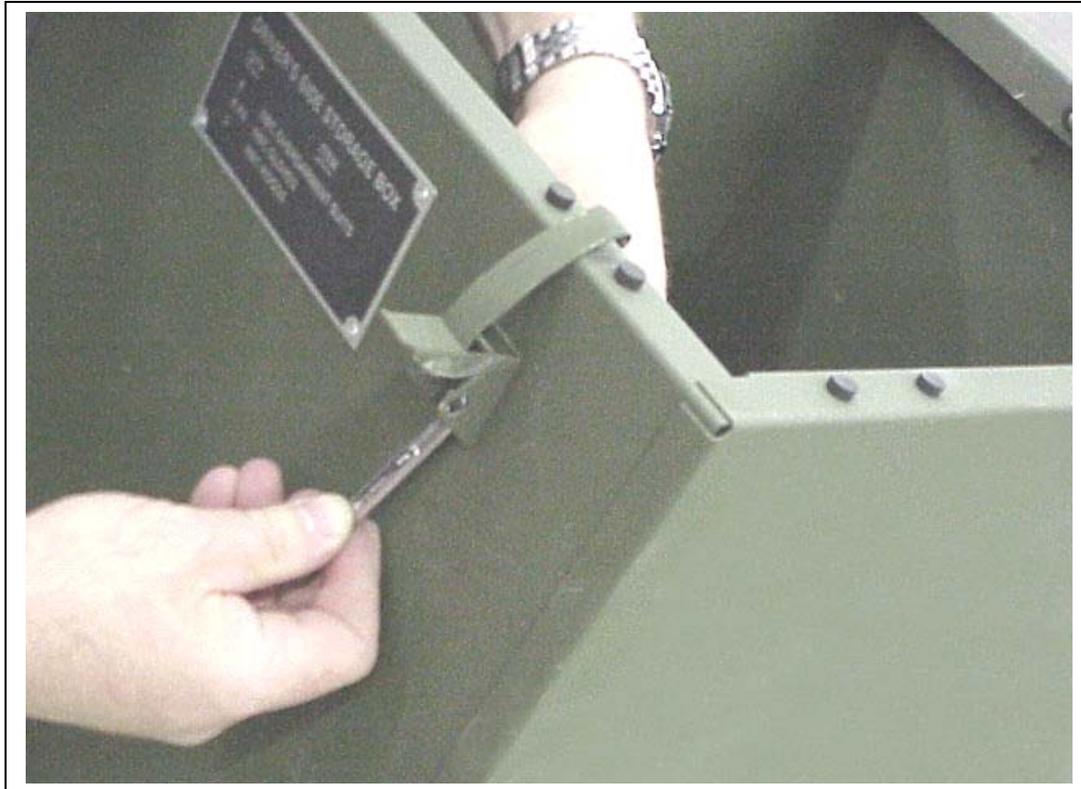
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SECTION II :

FMTV STOWAGE BOX MODIFICATION

REMOVE BOTH LATCHES



- Ask your supervisor for disposition of removed hardware.
- Remove both latches.
- Hold outside screw head with 7mm wrench while turning the inside nuts with turning the nut with a ratchet and 7mm deep socket on the inside.

7mm wrench
7mm deep socket
Ratchet

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SECTION II :

FMTV STOWAGE BOX MODIFICATION

REMOVE SUPPORT BAR BRACKET



- Ask your supervisor for disposition of removed hardware.
- Remove support bar bracket.
- Hold outside screw head with 7mm wrench while turning the inside nuts with turning the nut with a ratchet and 7mm deep socket on the inside.
- Remove the Support bar. Locate and remove the support bar cotter pin and washer behind the inside stowage box lip with needle nosed pliers.
- Remove the rubber grommet.



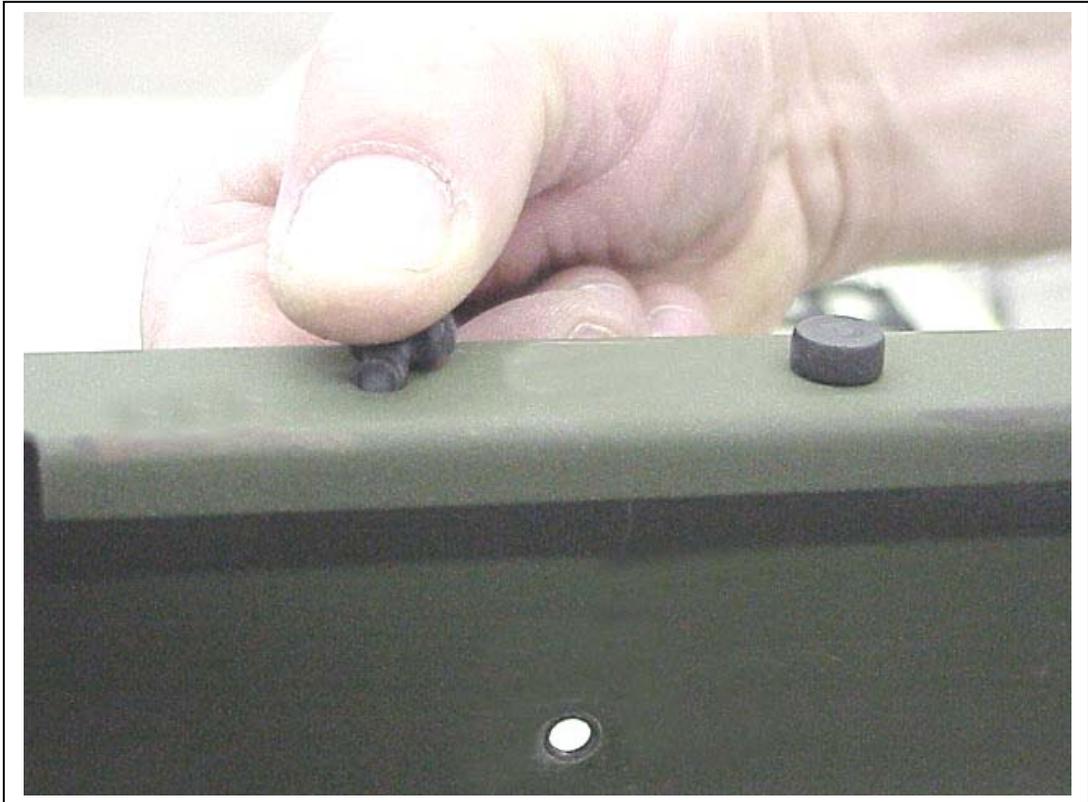
7mm wrench
7mm deep socket
Ratchet
Needle nosed pliers



SECTION II :

FMTV STOWAGE BOX MODIFICATION

REMOVE RUBBER BUMPERS



- Ask your supervisor for disposition of removed hardware.
- Remove rubber bumpers by rolling the bumpers out of the holes.
- Spot paint areas where hinge and latch have been removed.

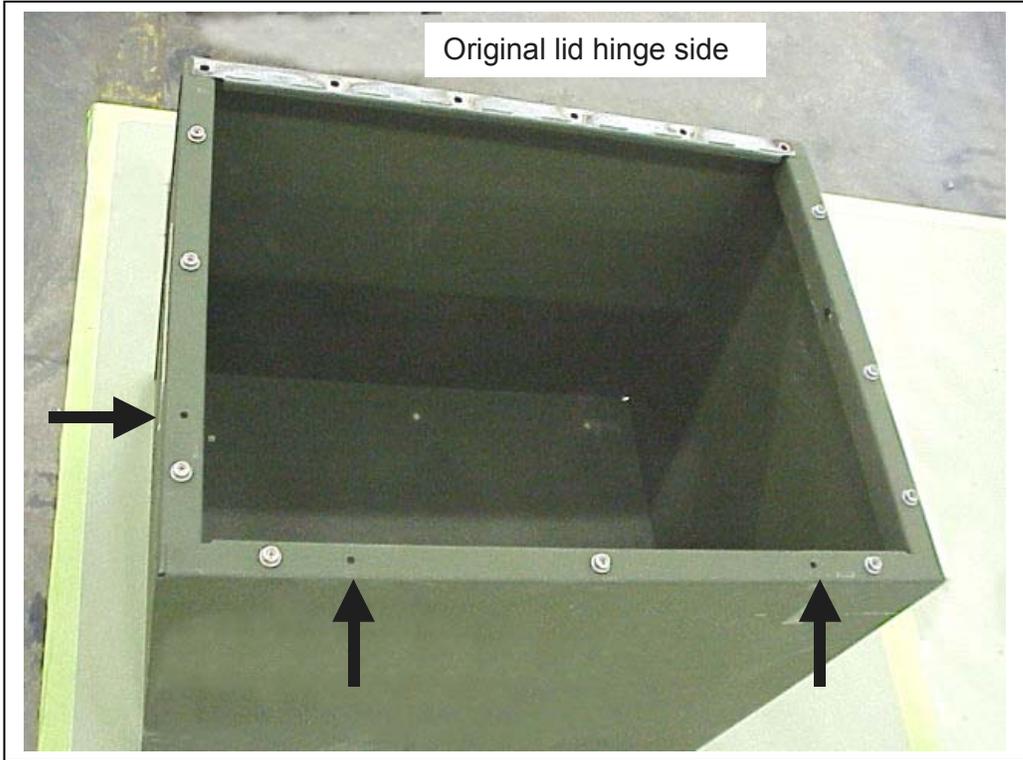
Carc primer
Carc paint
Brush

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FMTV STOWAGE BOX MODIFICATION

SECURE SNAP STUD SCREWS TO STOWAGE BOX



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SECTION II :

FMTV STOWAGE BOX MODIFICATION

SECURE SNAP STUD SCREWS TO STOWAGE BOX



- A drop of loctite on end of threads.



- Place snap stud in appropriate hole.



- Secure snap stud with #8 lock washer and 8-32 nut.



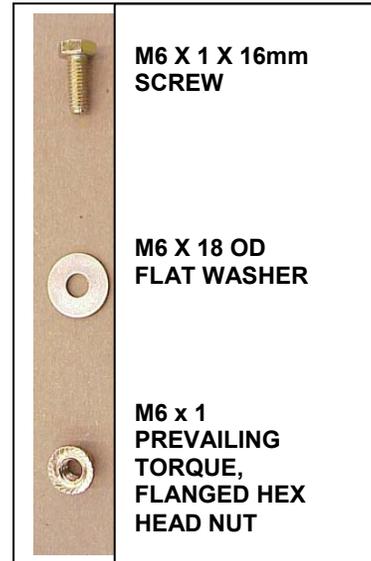
- Use 11/32 socket and ratchet on 8-32 nut, hold snap stud in place with Phillips screwdriver.

Phillips screwdriver
11/32" socket
Ratchet

SECTION II :

FMTV STOWAGE BOX MODIFICATION

SECURE NETTING TO STOWAGE BOX



- Secure the cargo netting onto the original lid hinge side.
- Use (4) M6 x 1.0 x 16mm screws, (4) M6 x 18 OD washers, and M6 prevailing torque nuts.
- Do not use Loctite on threads when using prevailing torque nuts.
- With the washer under the screw head put screw through netting and box. Secure the screw with a M6 prevailing torque flanged hex head nut. Hold the screw head with a 10mm wrench and tighten the nut with a 10mm socket and ratchet.

10mm wrench
10mm socket
Ratchet

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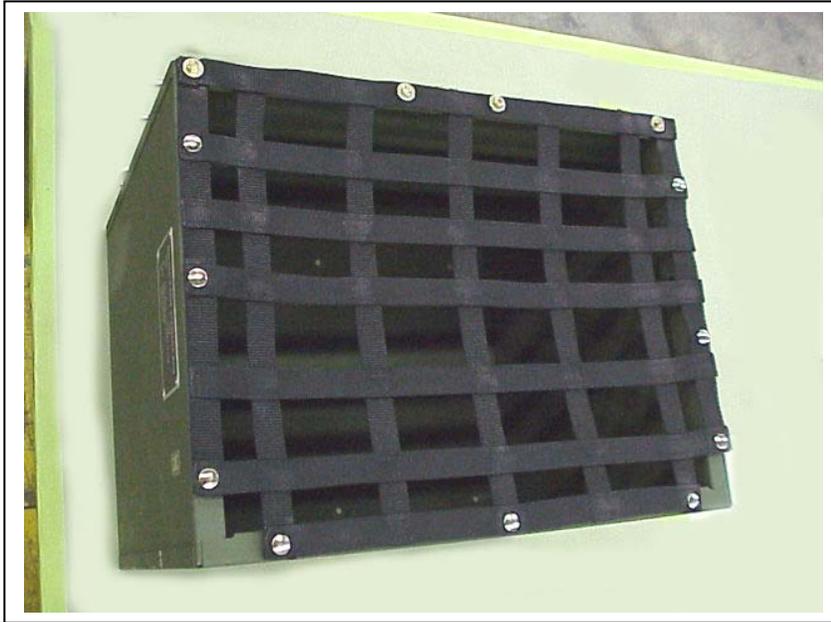
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SECTION II :

FMTV STOWAGE BOX MODIFICATION

Reinstall Stowage box



- Position driver's storage box behind drivers seat location.
- Secure driver's storage box with (6) washers and (6) screws to floor be careful not to cross thread the screws.
- Tighten the M6 screws to 72-80 lb-in. (8 - 9 N.m).

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SECTION III :

AFT STORAGE BOX

AFT

STORAGE BOX



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SECTION III :

AFT STORAGE COMPARTMENT ASSY.
(REF 12422707)

TABLE 1. PARTS

ITEM NO.	NOMENCLATURE	PART NO.	QUANTITY
1	Aft storage compartment	12422719-001	1
2	Head pad	12422686	1
3	Back cover	12422710	1
4	Compartment support	12422708	1
5	Webbing	12422711	1
6	Nut, M6 flanged hex head, prevailing torque	12414308-016	13
7	M6 x 12 Flat washer	12414473-011	10
8	M6 x 1 x 16 hex cap screw	12419954-075	10
9	.250 – 20 x .50 hex cap screw	B1821BH025C050N	4
10	M6 x 18 Flat washer	12417975-006	12
11	.164 – 32 hex nut	MS35649-284	3
12	.164 split lock washer	MS35338-42	3
13	Stud snap .164 – 32 x .50	12422721	3
14	M6 x 1 x 25 hex cap screw	12419954-077	8
15	Web bracket	12422709	1
16	Spacer	12422888	3
17	M8 x 24 Flat washer	12417975-008	3
18	M8 x 45 Screw	12419954-097	3

TABLE 2. TOOLS/ EQUIPMENT

NOMENCLATURE	SIZE/TOOL NO.
Phillips screw driver	
Metric wrenches	
Metric socket (1/4 drive)	
Ratchet (1/4 drive)	
Standard sockets (1/4 drive)	
Torque wrench (0 – 200 lb in)	
Torque wrench (0 – 50 lb ft) may be used	

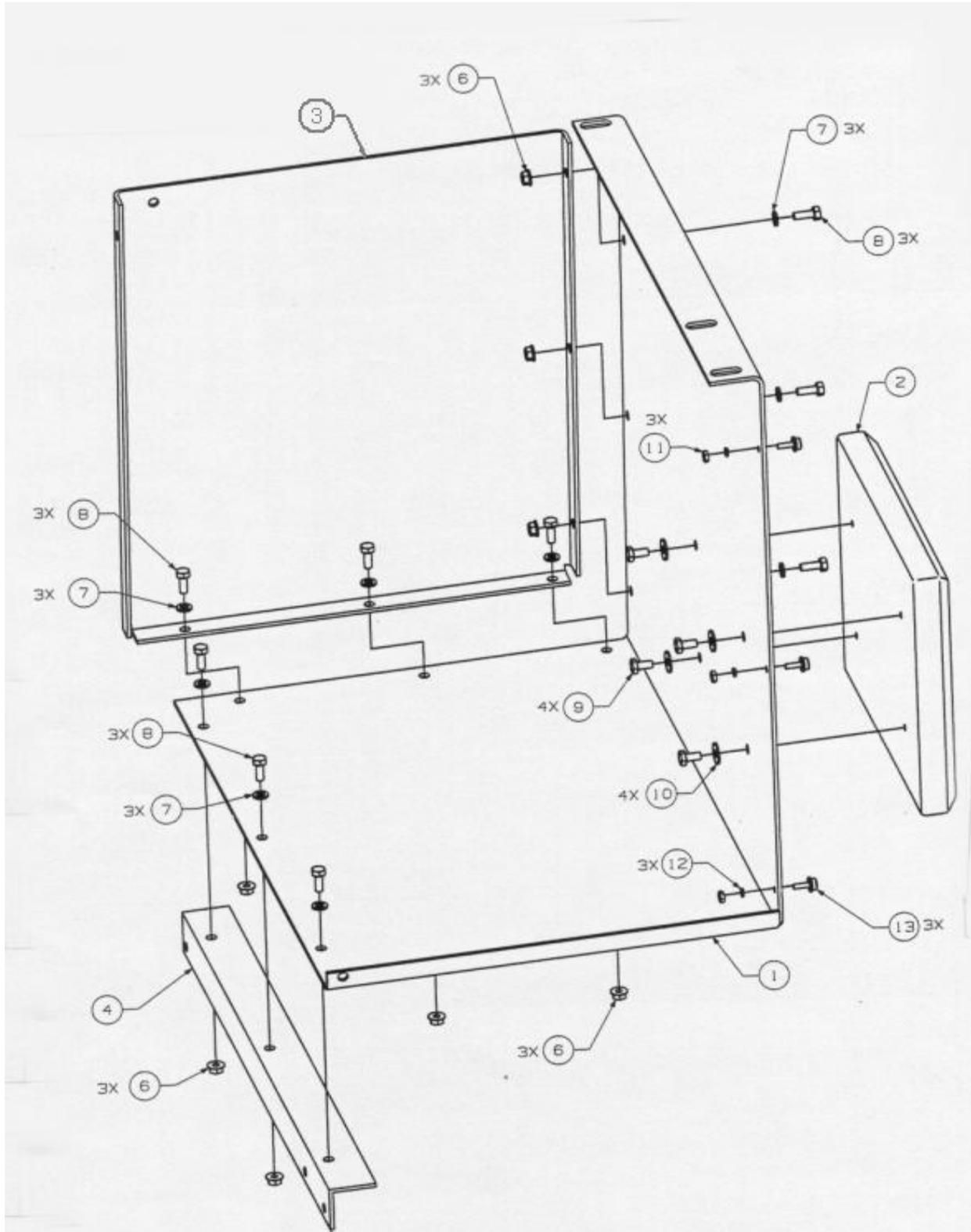
TABLE 3. REFERENCES

TITLE	DOCUMENT NO.
AVK INDUSTRIAL PRODUCTS Engineering Manual	EM-2 Rev. B

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AFT STORAGE BOX



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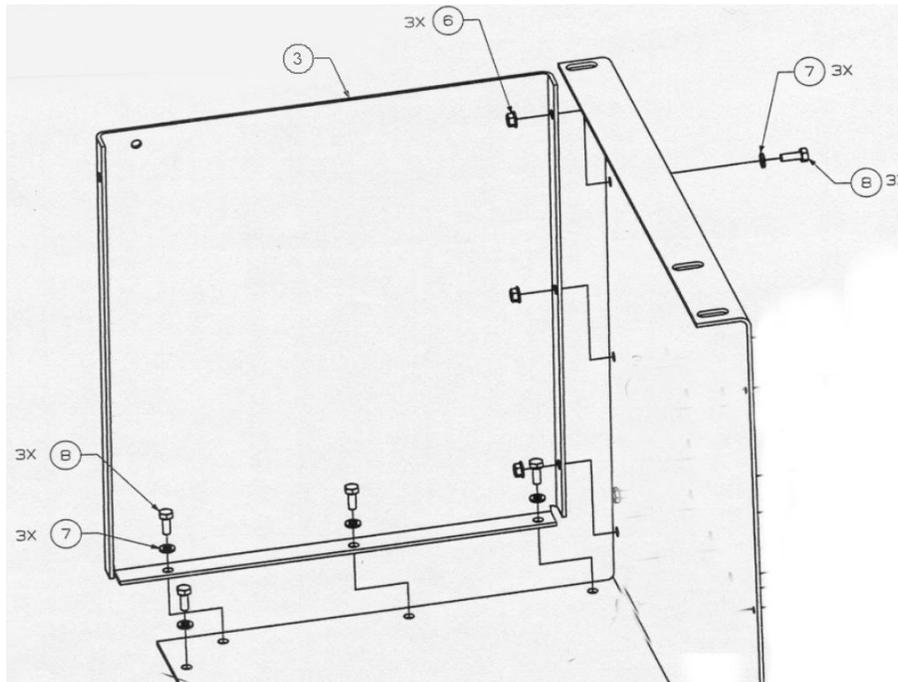
SECTION III :

AFT STORAGE BOX



- Fasten (Item 3) Back cover to (Item 1) Aft storage box.
- The washer will go behind the screw head.
- Use Loctite on the screw threads.
(Do not use Loctite when using M6 prevailing torque nut.)
- Torque to 72-80 Lb-in. (8-9 Nm)

- | | |
|--------------------------------------|-------------|
| (6) M6-1 x 16 hex cap screw | 10mm wrench |
| (6) M6 x 12 flat washer | 10mm socket |
| (6) M6 prevailing torque flanged nut | Ratchet |



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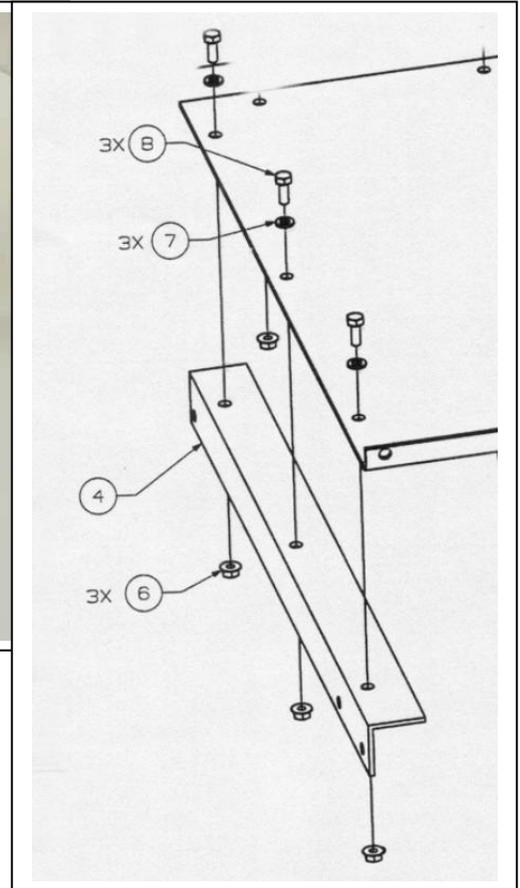
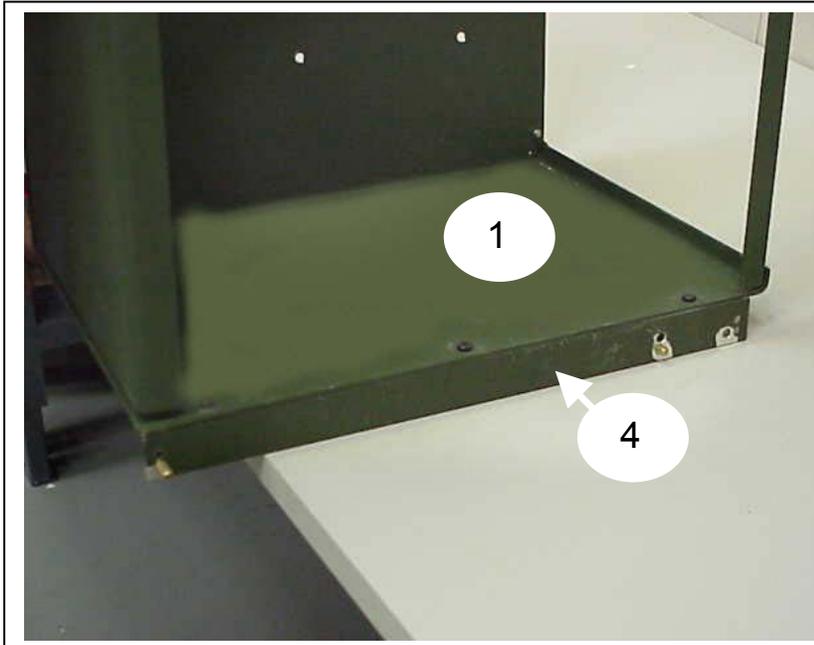
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SECTION III :

AFT STORAGE BOX



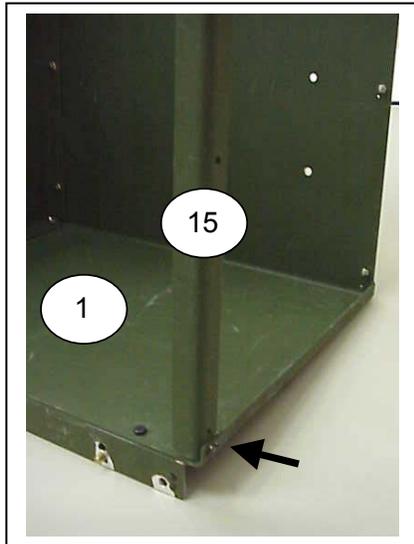
- Fasten (Item 4) Compartment support to (Item 1) Aft Storage box.
- The washer will go behind the screw head.
- Torque to 72-80 Lb-in. (8-9 Nm)

- | | |
|--------------------------------------|---------------|
| (3) M6-1 x 16 hex cap screw | 10mm wrench |
| (3) M6 x 12 flat washer | 10mm socket |
| (3) M6 prevailing torque flanged nut | Ratchet |
| | Torque wrench |

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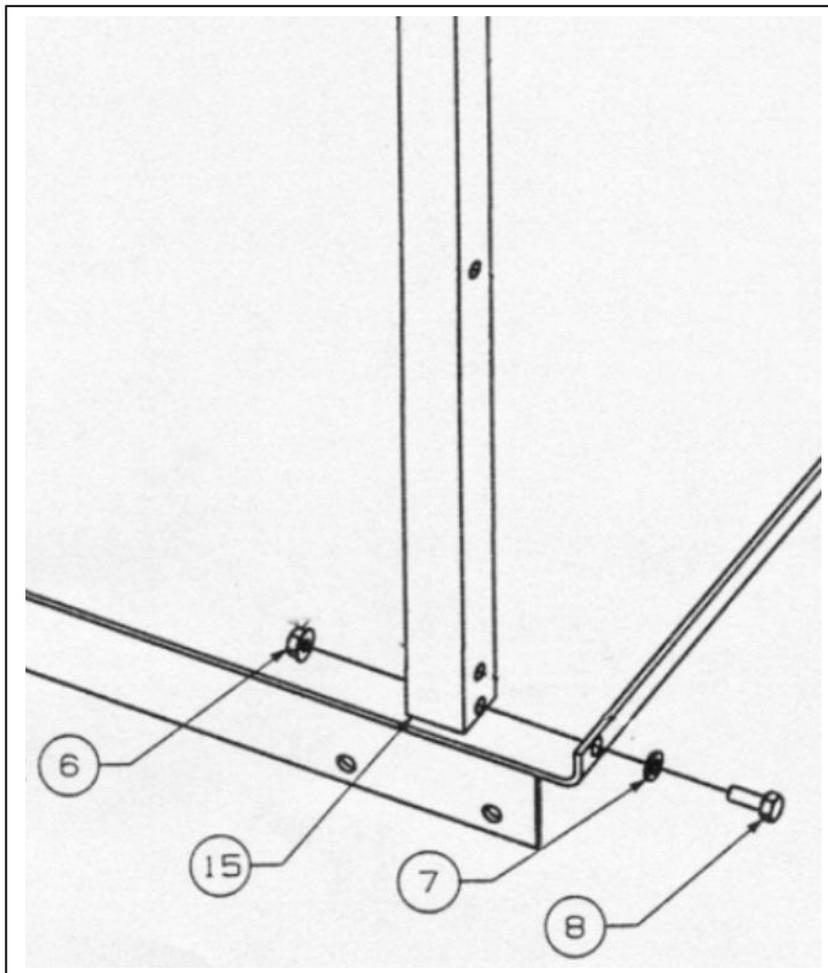
AFT STORAGE BOX



- Fasten (Item 15) Net bracket to (Item 1) Aft storage box.
- The washer will go behind the screw head.
- Torque to 72-80 Lb-in. (8-9 Nm)

- (1) M6-1 x 16 hex cap screw
- (1) M6 x 12 flat washer
- (1) M6 prevailing torque flanged nut

- 10mm socket
- 10mm wrench
- Ratchet
- Torque wrench



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SECTION III :

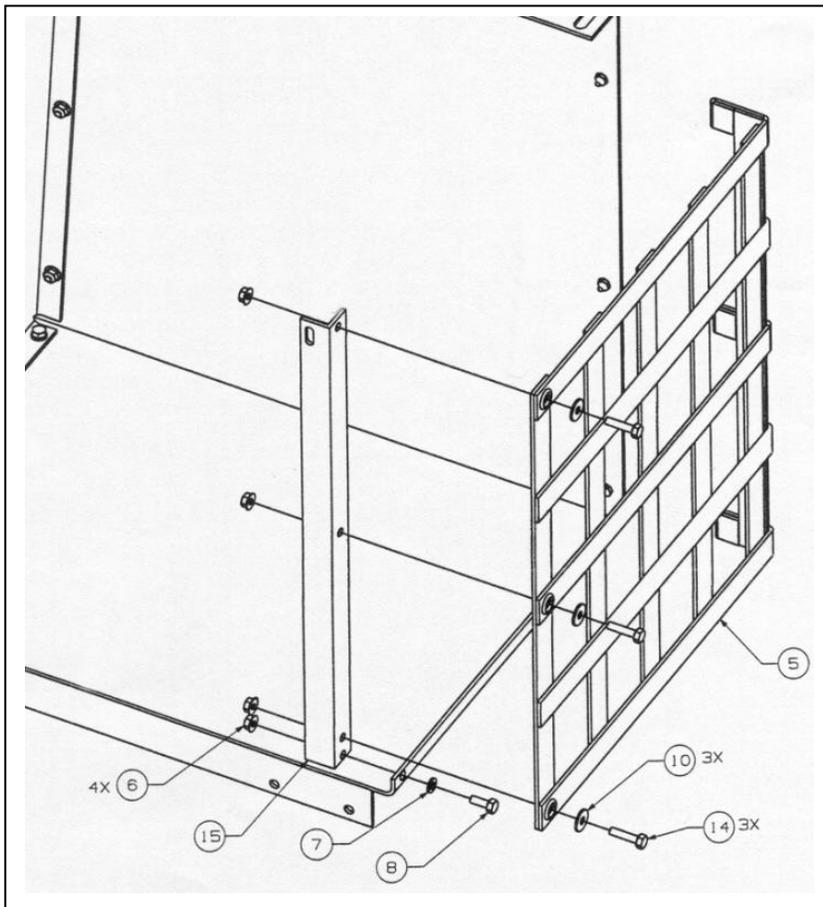
AFT STORAGE BOX



- Fasten (Item 5) cargo net to (Item 15) net bracket.
- The washer will go behind the screw head.
- Torque to 72-80 Lb-in. (8-9 Nm)

- (3) M6 x 25 hex head screws
- (3) M6 x 18 flat washer
- (3) M6 prevailing torque flanged nut

- 10mm socket
- 10mm wrench
- Ratchet
- Torque wrench



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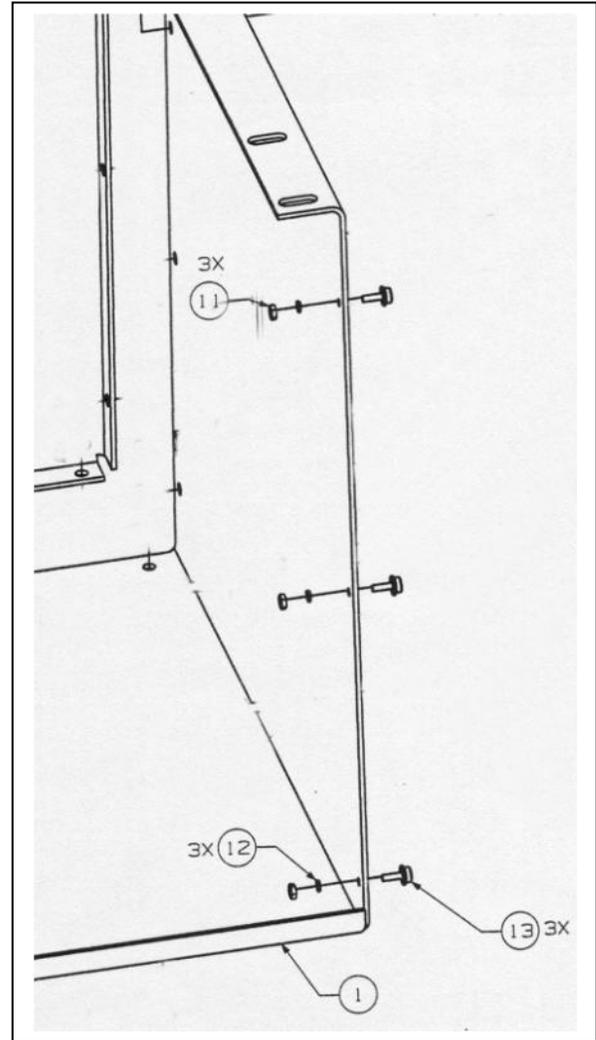
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SECTION III :

AFT STORAGE BOX



- Fasten (Item13) Snap stud screw to (Item1) Aft storage Box.
- The washer will go in front of the hex nut.
- Use Loctite on the screw threads.

(3) Snap stud screw .164 -32 x .50
 (3) Split lock washer .164
 (3) Hex nut .164-32
 Loctite

Screwdriver
 11/32" socket
 Ratchet

DIGITIZATION RACK, DIGITIZATION HARNESS
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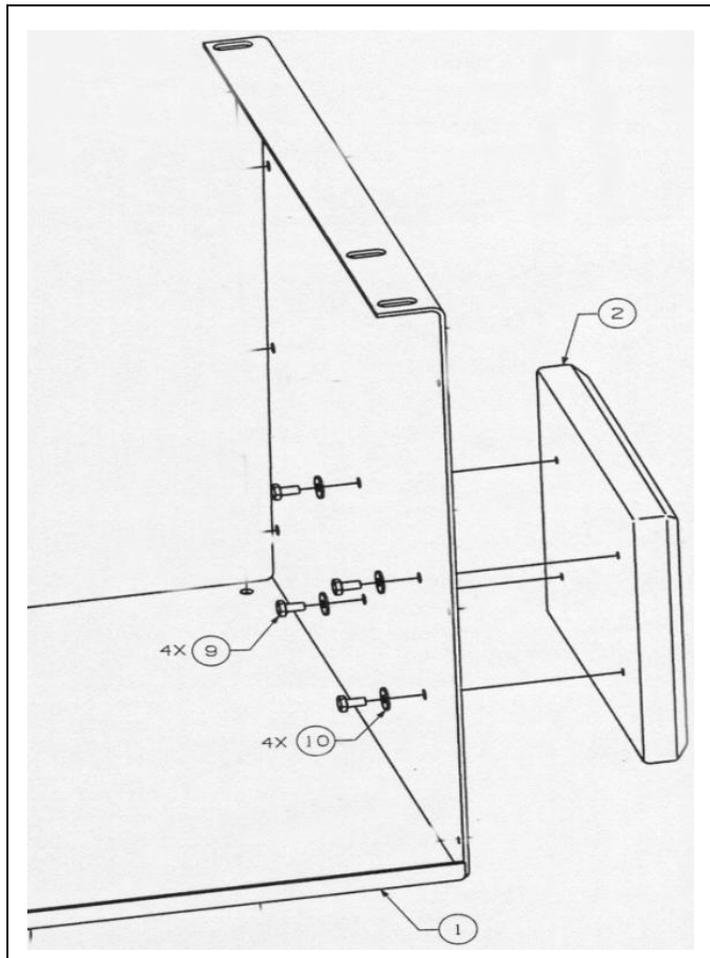
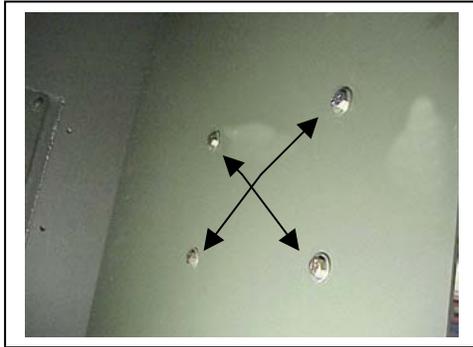
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SECTION III :

AFT STORAGE BOX



- Fasten (Item 2) Headrest pad to (Item 1) Aft storage box.
- The washer will go in front of the hex nut.
- Use Loctite on the screw threads.
- Torque to 72-80 lb in. (8-9 N.m)

(4) .250 – 20 x .50 hex cap screw
 (4) M6 x 18 flat washer
 Loctite

7/16" socket
 Ratchet
 Torque wrench

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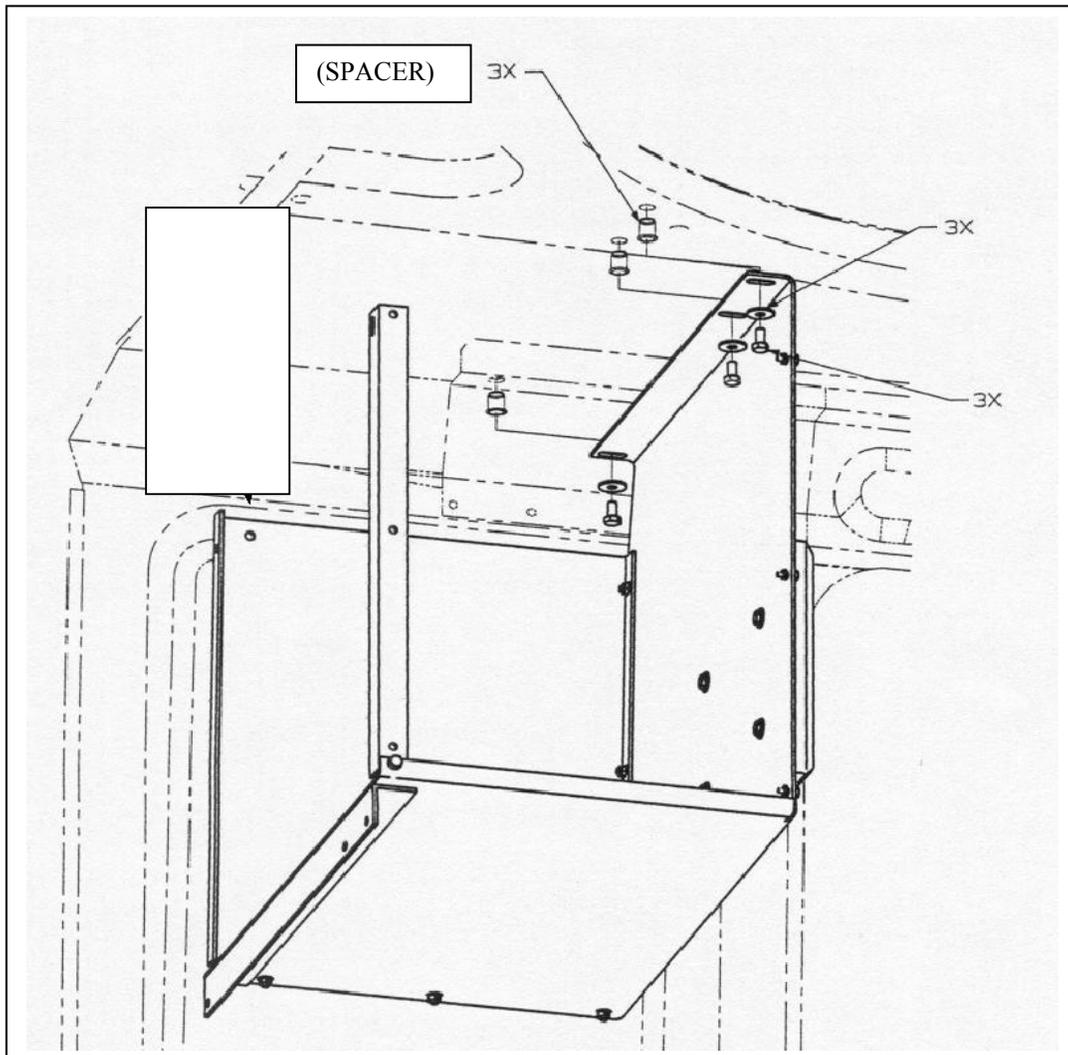
SECTION III :

AFT STORAGE BOX



- Place spacers (3) – 12422888 between roof and storage box
- Fasten (Item 1) Aft Storage Box to roof.
- The washer will go in front of the screw head.
- Use Loctite on the screw threads.
- Torque to 120-lb in. (14 N.m) range +/-10%.

(3) M8-1 x 45 hex cap screw 13mm socket
(3) M8 x 25 flat washer Ratchet
(3) 12422888 Spacer



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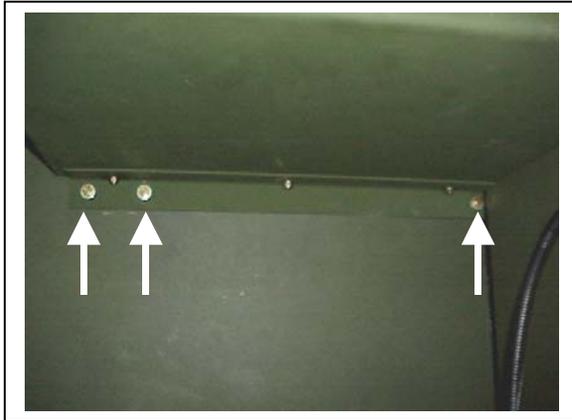
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SECTION III :

AFT STORAGE BOX



- Fasten (Item 4) Aft Storage Support to the rear wall.
- (3) Screws and washers underneath and (2) screws and washers near the top
- The washer will go behind the head of the hex nut.
- Use Loctite on the screw threads.
- Torque to 72-80 Lb-in. (8-9 Nm)
- Note: The installed hardware must be in direct contact with threaded inserts. Use ½ inch hole saw to enlarge hole in liner or panel and use M6 x 12 washers as shims. See page 57 for illustration. This note applicable to trucks prior to serial number 18550. Trucks after 18550 have weld nuts installed.

(5) M6-1 x 25 hex cap screw

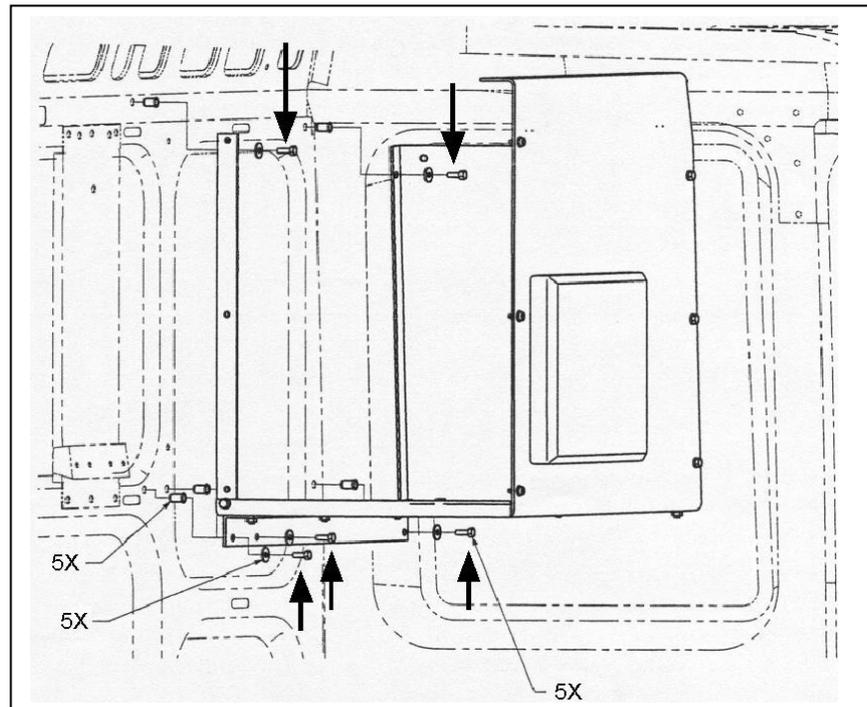
10mm socket

(5) M6 x 18 flat washer

Ratchet

Loctite

Torque wrench



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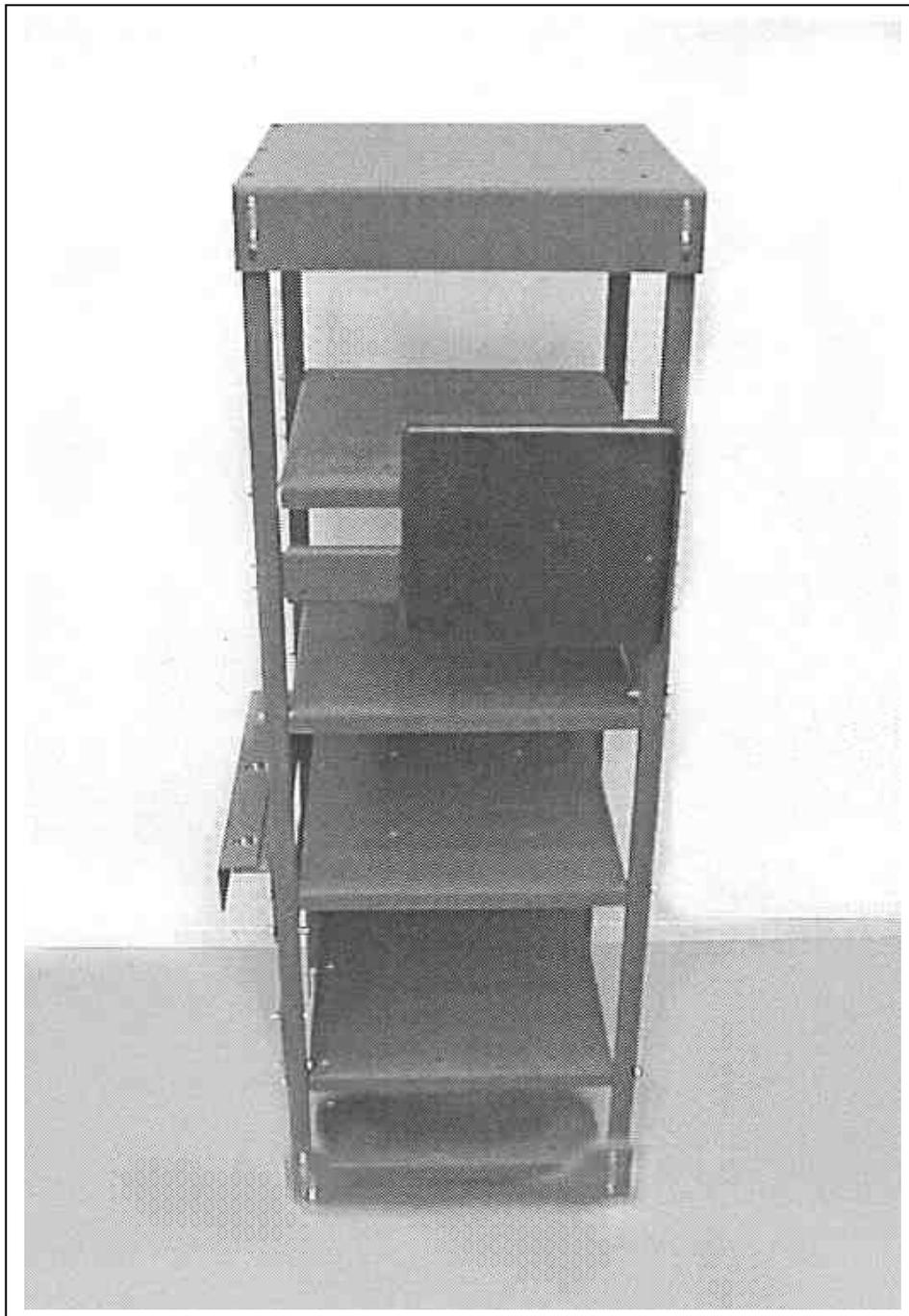
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SECTION IV :

FMTV RADIO RACK



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SECTION IV :

FMTV RADIO RACK (12422685 REF)

Section – Parts, Materials & Tools

TABLE 1. PARTS

ITEM NO.	NOMENCLATURE	PART NO.	QUANTITY
1	POST	12422687	4
2	HEADS PAD	12422686	1
3	FBCB2 SHELF	12422688	1
4	EPLRS SHELF	12422689	1
5	MTS MOUNTING PLATE	12422701	1
6	REAR SUPPORT	12422690	1
7	INNER SIDE SUPPORT	12422691	1
8	MID SUPPORT	12422692	2
9	SINGARS SHELF	12422693	1
10	POWER DISTRIBUTION SHELF	12422694	1
11	OUTER SIDE SUPPORT	12422695	1
12	PLGR/M42 ALARM PLATE	12422696	1
13	TOP SUPPORT	12422697	1
14	BOTTOM SUPPORT	12422699	1
15	STIFFENING PLATE	12422698	1
16	M6 X 12 FLAT WASHER	12414473-011	56
17	M6 X 18 FLAT WASHER	12417975-006	40
18	M6-1 X 40 HEX CAP SCREW	12419954-080	38
19	M6-1 X 16 HEX CAP SCREW	12419954-075	22
20	M6-1 X 25 HEX CAP SCREW	12419954-077	13
21	.250-20 X .50 HEX CAP SCREW	B1821BH025C050N	2
22	M6 PREVAILING TORQUE FLANGED NUT	12414308-016	16
23	BRACKET	12422979	1

TABLE 2. MATERIALS

NOMENCLATURE
LOCTITE IAW ASTM D5363 type AN3011 (equivalent to loctite 222)
Mil-T-22361 NSN 8030002921102 Anti Seize

TABLE 3. TOOLS/ EQUIPMENT

NOMENCLATURE
Metric socket set (1/4 drive preferably)
Standard socket set (1/4 drive preferably)
Ratchet (1/4 drive preferably)
Metric wrenches
Torque wrench 0 – 200 lb. in (0 – 100 N.m)

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SECTION IV :

FMTV RADIO RACK

Important assembly note:

Should the radio rack be assembled outside the cab the bottom and top support plates are not installed until after the radio rack is placed in the cab.

Stand a finished radio rack vertically in the passenger space immediately in front of the dash. Slide the radio rack to the rear then slide the bottom and top supports in place then secure.

Torque screws to proper specification.

Use Loctite (liquid thread lock) on threads of all screws where M6 prevailing torque nuts are not used.

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SECTION IV :**FMTV RADIO RACK**

PAGE	ITEM
40	Remove paint from parts and spread anti-seize.
42	(Item 3) FBCB2 shelf
43	(Item 15) Stiffening plate
44	(Item 4) EPLRS shelf, (Item 7) Inner support
46	(Item 6) Rear Mid Support
47	(Item 10) Power Distribution Shelf
49	(Item 12) PLGR/M42 Alarm Plate
49	(Item 8) Rear wall and head pad brace
50	(Item 2) Head pad
51	(Item 9) Singars Shelf
52	Install rack in cab
53	(Item 14) Bottom Support
54	(Item 5) MTS Mounting Plate
55	(Item 13) Top Support and Bracket (Item 23)
56	Secure (Item 8) and (Item 6) to back wall.
57	Shims over threaded inserts in plastic
58	(Item 11) to (Item 7) Torque Remaining shelves.

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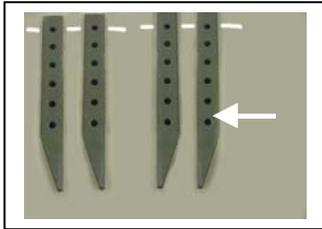
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SECTION IV :

FMTV RADIO RACK

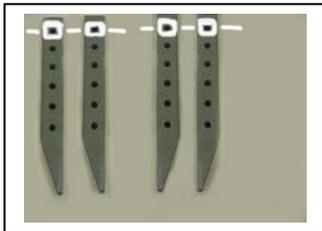


Pre-count then mark the location of each hole the shelves will screw through on each support leg. Note the position of the legs.



Starting at the side bottom hole; the hole locations are 6,17,26,36.

Remove the paint from where the shelf will make contact.



Notice the position of the support legs when the paint is removed the unpainted area will connect with the shelf.



Spread Mil -T- 22361 (NSN 8030002921102) Antiseize over all bare metal contact areas at assembly.



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SECTION IV :

FMTV RADIO RACK



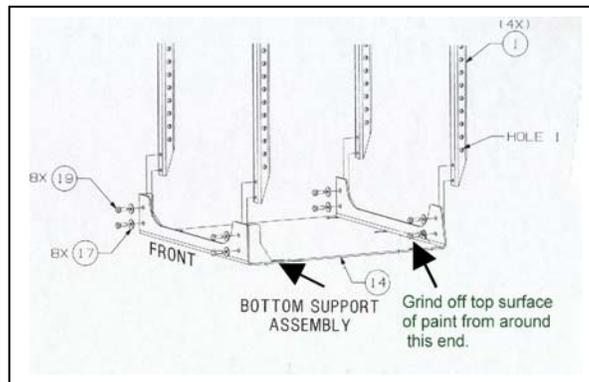
Top support (Item 13)

- Remove the paint from around the inside of the six boltholes of the top support.
- Apply Anti-seize compound to all bare metal surfaces at assembly.



MTS plate (Item 5)

- Remove the paint from around the boltholes and slots.
- Apply Anti-seize compound to all bare metal surfaces at assembly.



- (Item 14) Bottom support.
- Remove the paint from around the topside of the two end holes going next to the cab tunnel.
- Apply Anti-seize compound to all bare metal surfaces at assembly.

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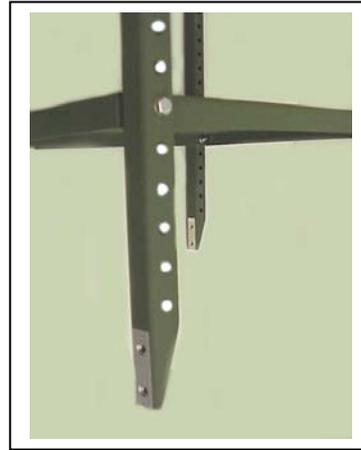
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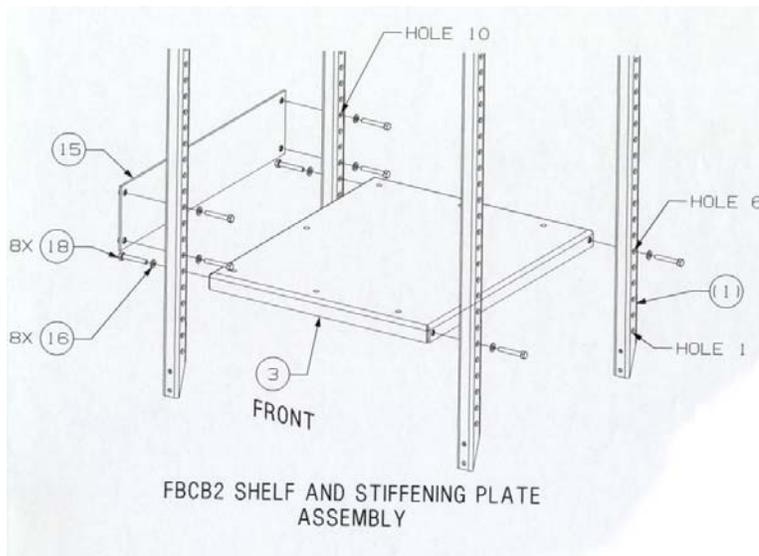
SECTION IV :

FMTV RADIO RACK



- (Item 3) FBCB2 shelf is located at hole 6 (from the side bottom hole) on the supports (Item 1).
- The screw will go through the supports and into the shelf.
- The washer will be under the screw head.
- Loctite screw threads.

- (4) M6-1 x 40 hex cap screws 10mm socket
- (4) M6 x 12 flat washer Ratchet
- Loctite



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SECTION IV :

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- (Item 15) Stiffening plate is located (from the side bottom hole) at hole 7 and 10.
- Note the angle of the support bottoms (arrow)
- (Item 15) will go on the outside of the supports the PEM nuts are away from the supports.
- The screws will start from the interior side of the supports - go through the supports and screw into (Item15). The washer will be under the screw head. Loctite screw threads.

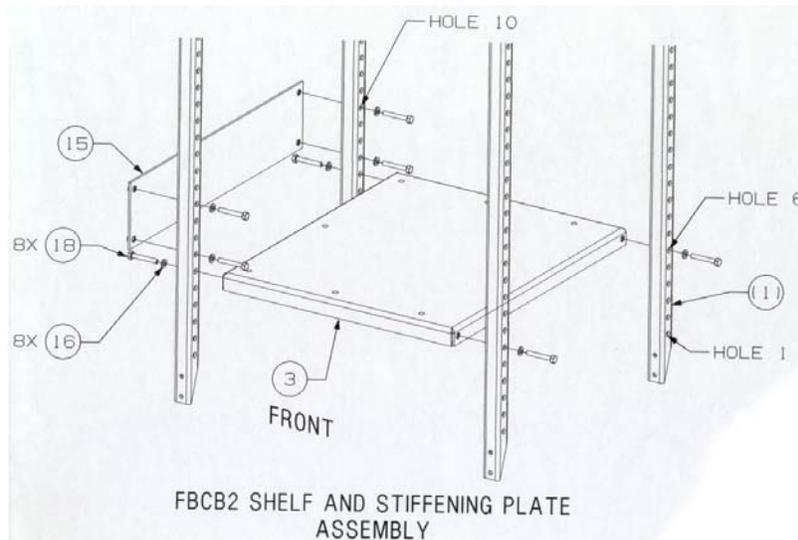
(4) M6-1 x 40 hex cap screws

10mm socket

(4) M6 x 12 flat washer

Ratchet

Loctite



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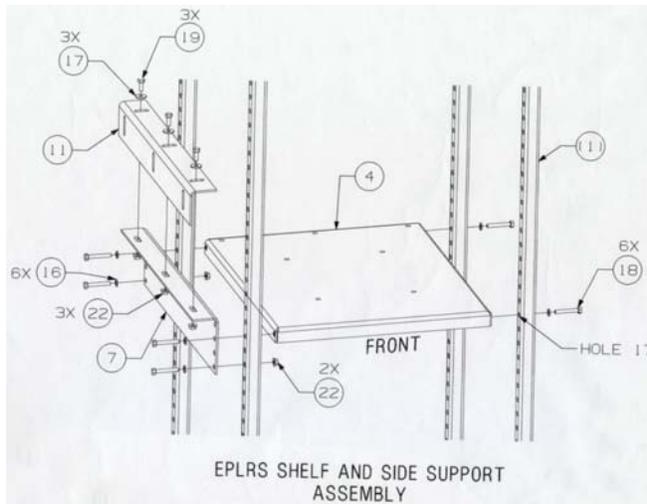
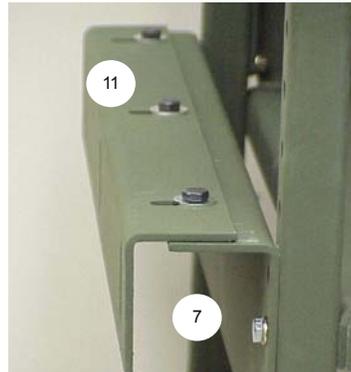
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SECTION IV :

FMTV RADIO RACK



- (Item 4) EPLRS shelf is located (from the side bottom hole) at hole 17.
- (Item 7) inner support the center hole will be located at hole 17.
- *Note:* (Item 7) may be shifted up or down one hole in support leg to allow mating with the Threaded inserts in the Quarter panel.
- The screws will go through the supports and into the shelf. The washer will be under the screw head. Loctite screw threads.

(4) M6-1 x 40 hex cap screws
 (4) M6 x 12 flat washer
 Loctite

10mm socket
 Ratchet

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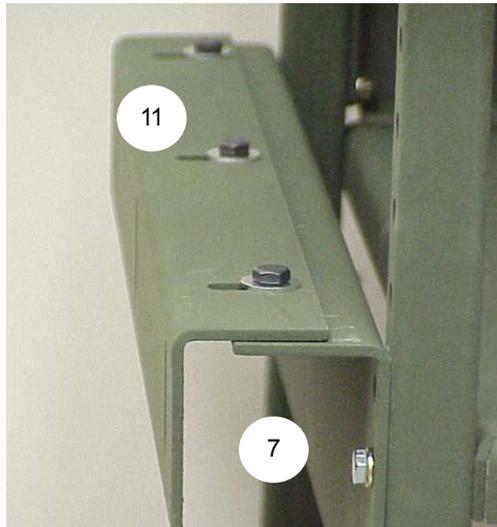
SECTION IV :

FMTV RADIO RACK

Continued from page 44.

- (Item 11) outer support can be screwed on top or bottom of (Item 7)
- Washers will be under the screw heads. (Do not use Loctite with M6 prevailing torque nuts)

- (3) M6-1 x 16 hex cap screw
 - (3) M6 x 18 flat washer
 - (3) M6 prevailing torque flanged nut
- 10mm socket
Ratchet



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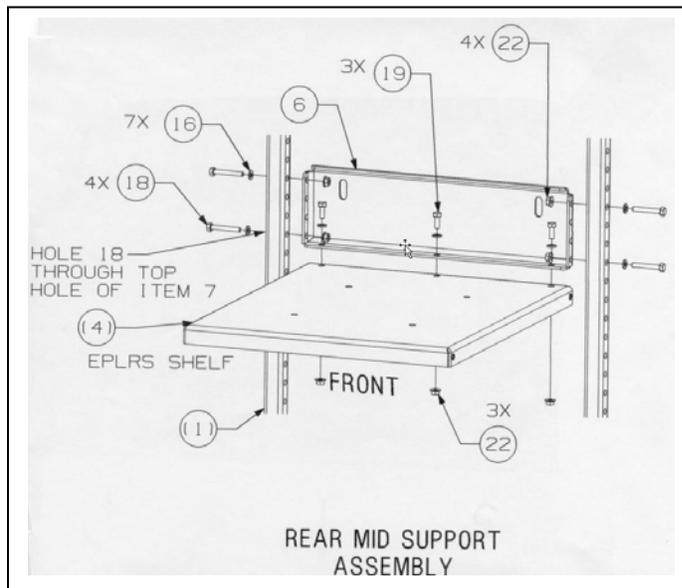
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SECTION IV :

FMTV RADIO RACK



- (Item 6) Rear Mid Support The bottom screw will go through the top of (Item 7) at hole 18.

- (4) M6 – 1 x 40 hex cap screw
- (4) M6 x 12mm flat washer
- (4) M6 prevailing torque flanged nut

- Secure (Item 6) Rear Mid Support to (Item 4) EPLRS shelf.

- (3) M6 – 1 x 16 hex cap screw
- (3) M6 x 12mm flat washer
- (3) M6 prevailing torque flanged nut
- Torque to 72-80 lb in. (8-9 Nm)

10mm socket
 10mm wrench
 Ratchet
 Torque wrench

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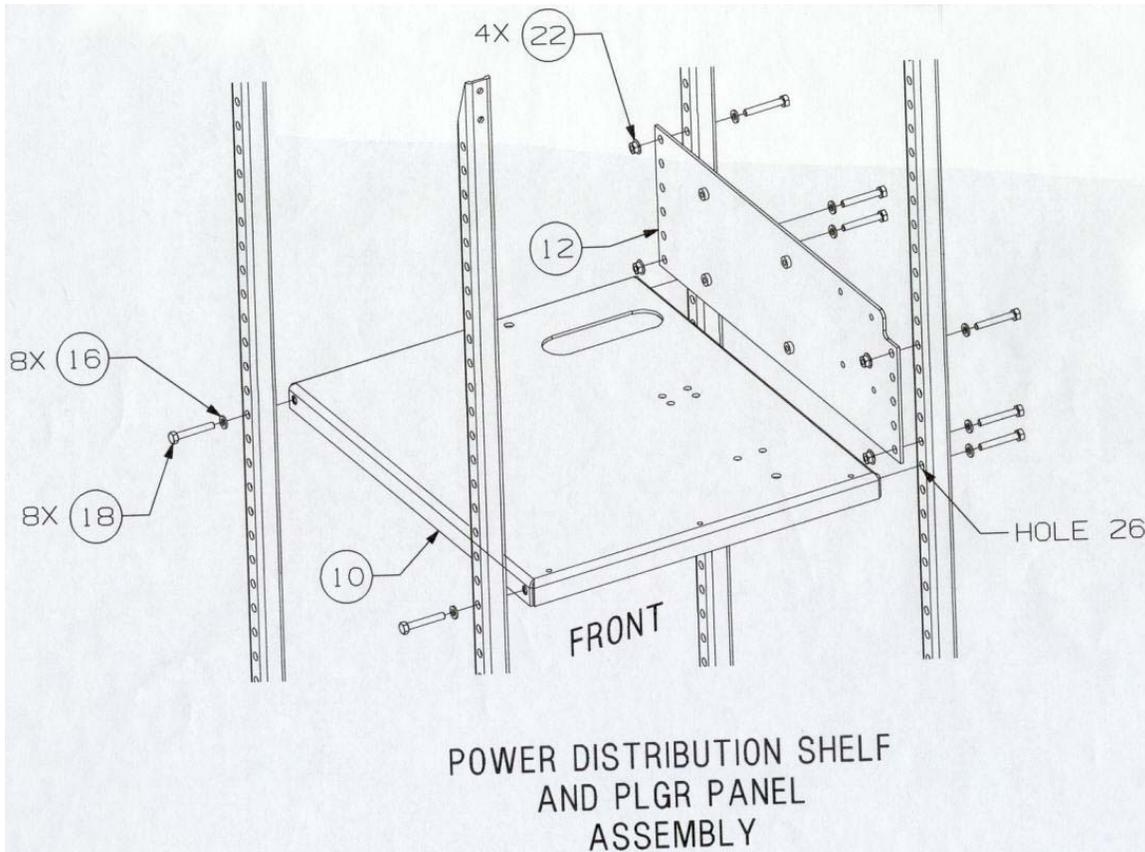
SECTION IV :

FMTV RADIO RACK



- (Item 10) Power Distribution shelf is located at hole 26 (from the side bottom hole) on the supports (Item 1).
- The screws will go through the supports and into the shelf. The washer will be under the screw head. Loctite screw threads.

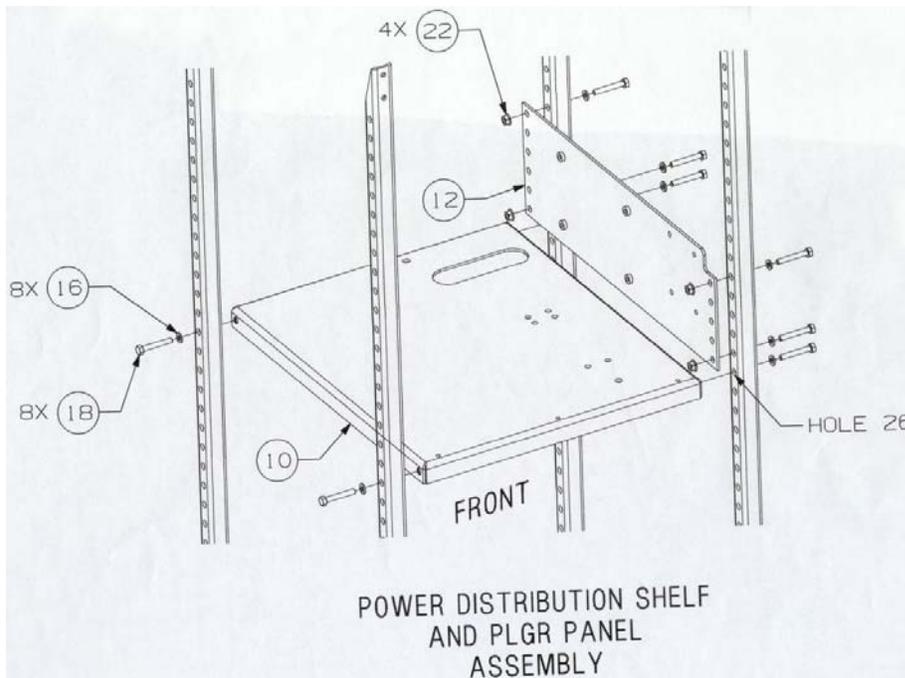
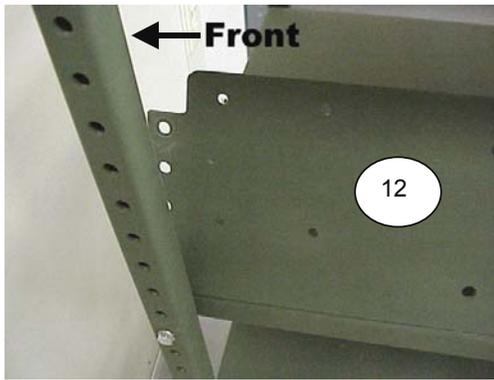
(4) M6-1 x 40 hex cap screws 10mm socket
 (4) M6 x 12 flat washer Ratchet
 Loctite



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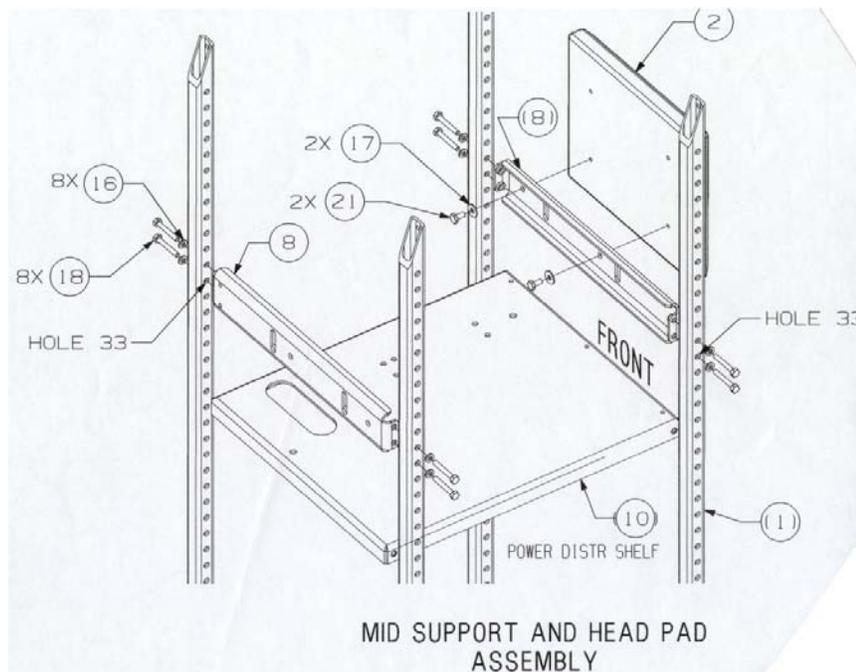
- (Item 12) PLGR/M42 Alarm Plate is located on the interior side of the rack supports (Item 1).
- (Item 12) bottom hole is located at hole 27 (from the side bottom hole) on the supports (Item 1).

(4) M6-1 x 40 hex cap screws 10mm socket
 (4) M6 x 12 flat washer Ratchet
 Loctite

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SECTION IV :

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- (Item 8) Rear wall and front head pad brace. The smooth side of the braces will be flush with the supports.
- The bottom hole is located at hole 33 (from the side bottom hole) on the supports (Item 1).
- The screws will go through the supports and into the shelf. The washer will be under the screw head. Loctite screw threads.

(8) M6-1 x 40 hex cap screws
 (8) M6 x 12 flat washer
 Loctite

10mm socket
 Ratchet

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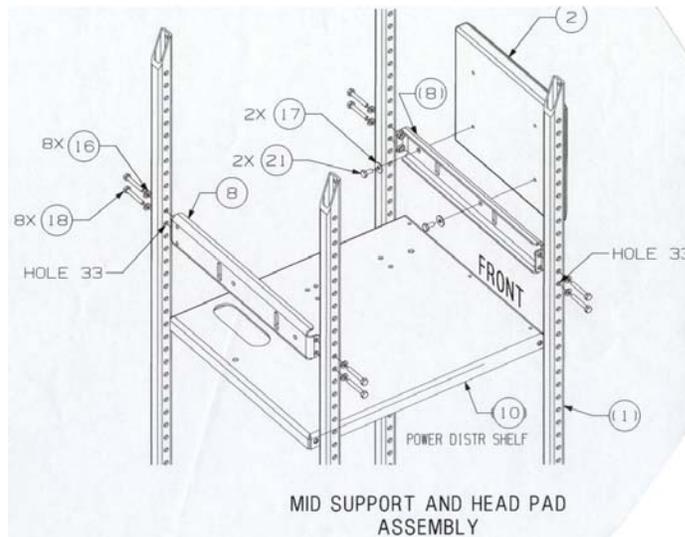
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SECTION IV :

FMTV RADIO RACK



- Screws go through the front (Item 8) into the bottom outside threaded holes of (Item 2) head pad.

(2) Headrest screws are .250 – 20 x .500 ‘‘

7/16’’ socket

(2) M6 x 18 flat washers

Ratchet

Loctite

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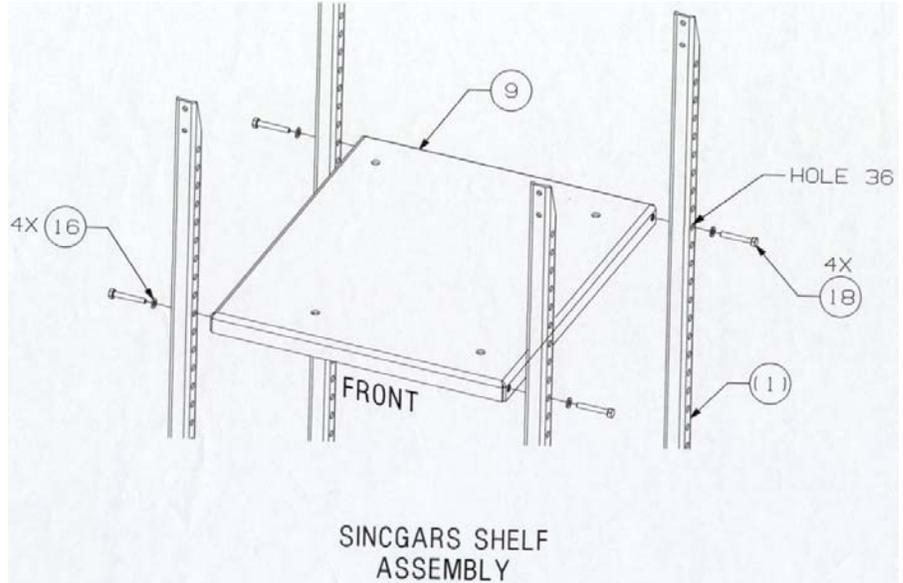
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SECTION IV :

FMTV RADIO RACK



- (Item 9) SINGARS shelf is located at hole 36 (from the side bottom hole) on the supports (Item 1).
- The screws will go through the supports and into the shelf.
- The washer will be under the screw head.
- Loctite screw threads.

(4) M6-1 x 40 hex cap screws
 (4) M6 x 12 flat washer
 Loctite

10mm socket
 Ratchet

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SECTION IV :

FMTV RADIO RACK



- Stand the radio rack minus the base and top vertically in the cab in front of where the seat would be and slide the radio rack towards the rear of the cab.

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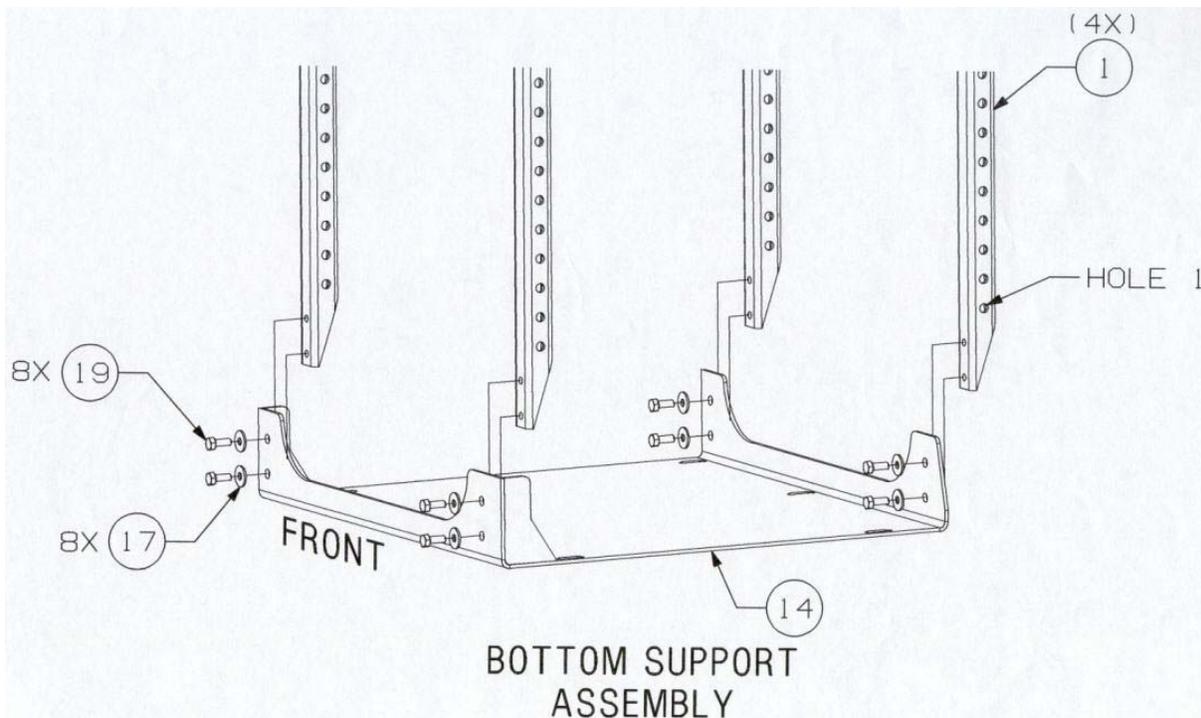
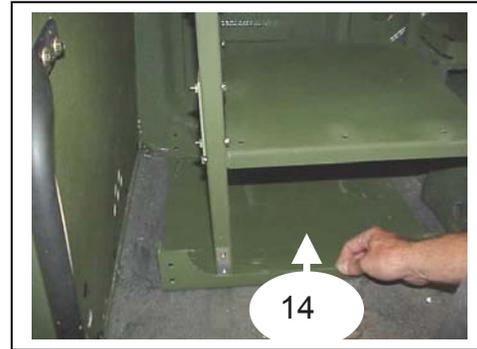
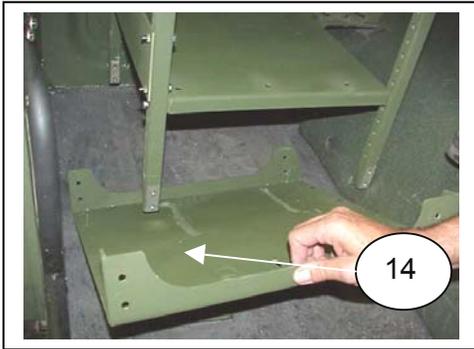
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SECTION IV :

FMTV RADIO RACK



- The screws will go through the (Item 14) Base and into (Item 1) Support leg.
- The washer will be under the screw head.
- Loctite screw threads.
- Torque to 72-80 lb in. (8-9 N.m)

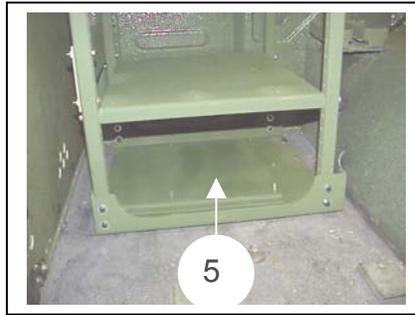
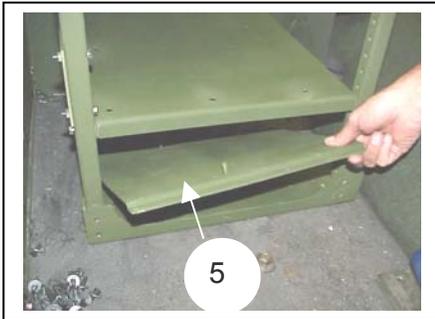
(8) M6-1 x 40 hex cap screws
 (8) M6 x 18 flat washer
 Loctite

10mm socket
 Ratchet
 Torque wrench

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SECTION IV :

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- The slotted holes of (Item 5) MTS mounting plate will go over the right rear screw holes of (Item 14) the base.
- Secure (Item 5) to (Item 14) and cab floor. The washer will be under the screw head. Loctite screw threads.
- Torque to 72-80 Lb in. (8-9 N.m)

(6) M6-1 x 25 hex cap screw

10mm socket

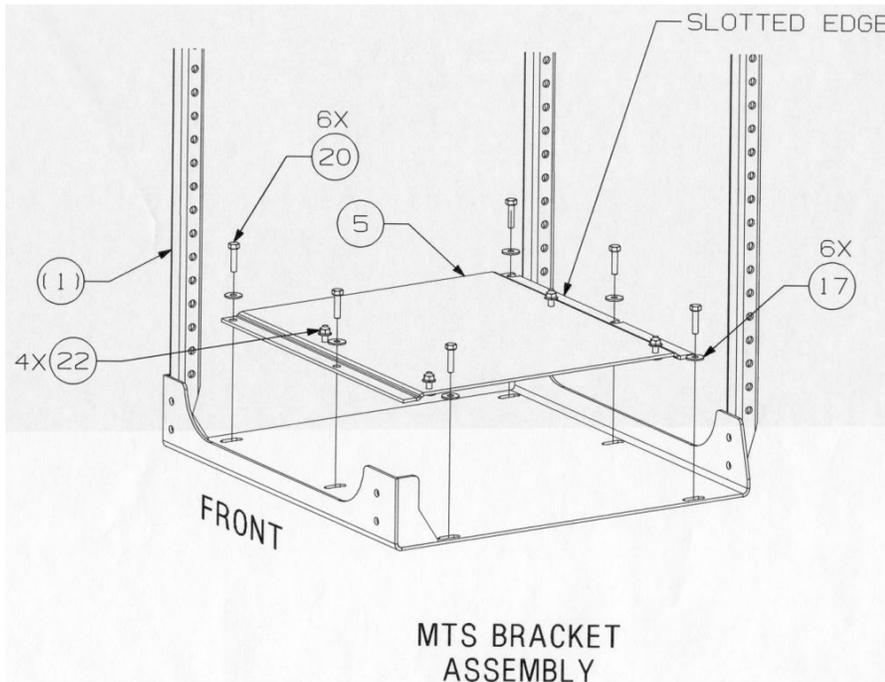
(6) M6 x 18 flat washer

Ratchet

Loctite

Torque wrench

- (4) M6 prevailing torque flanged nut for mounting of MTS battery.
- Do not use loctite on M6 prevailing torque flanged nut.



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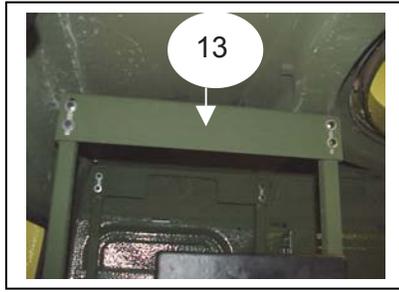
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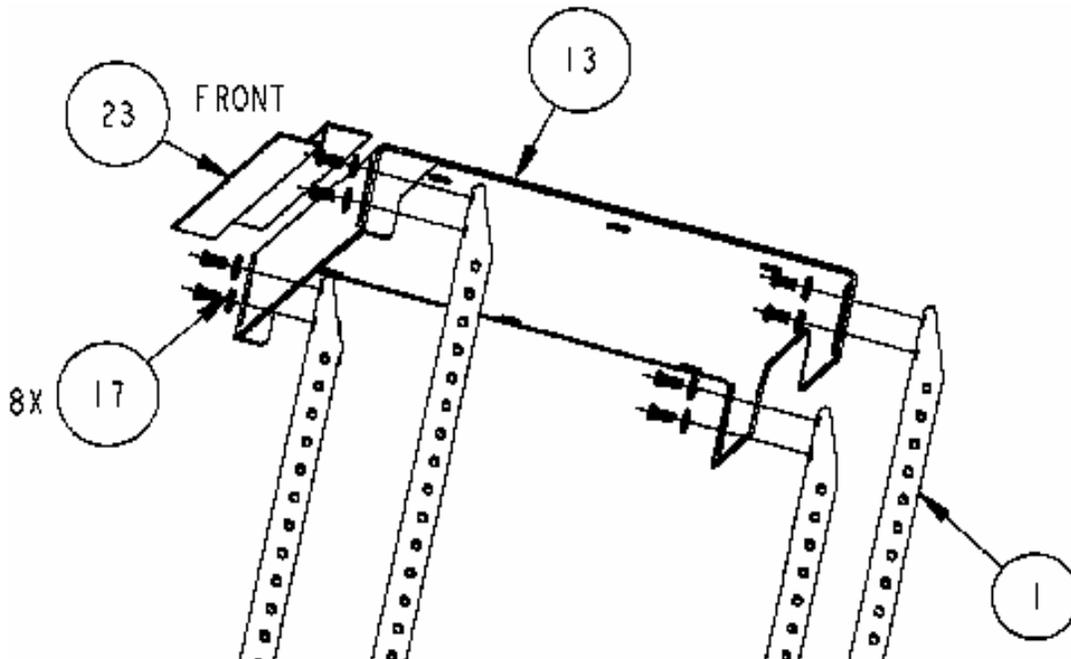
SECTION IV :

FMTV RADIO RACK



- Prior to installing Item 13, remove portion of headliner, 12422875-002 as described in 57K2042, sheet 3 and note 15. Slide Item 13 top on to Rack. Install Item 23 on top of Item 13 . Reference 57K2042 sheet 3, Item 10 (same as item 23 on this drawing).
 - Fasten (Item 13) to cab roof. The washer will be under the screw head. Loctite screw threads.
 - Torque to 72-80 lb in. (8-9 Nm)
- (6) M6-1 x 16 hex cap screw 10mm socket
 (6) M6 x 18 flat washer Ratchet
 Loctite Torque wrench

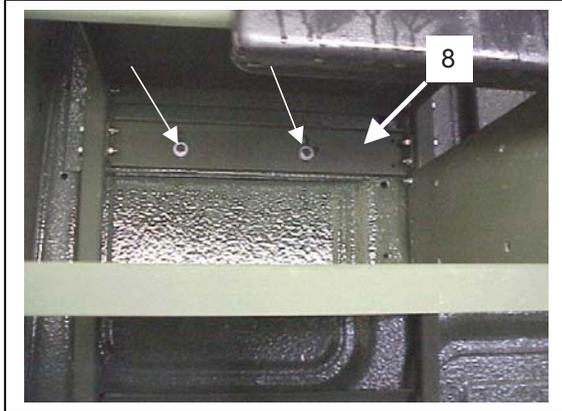
- Fasten (Item13) top to (Item 1) leg supports. The washer will be under the screw head. Loctite screw threads.
 - Torque to 72-80 lb in. (8-9 Nm)
- (8) M6-1 x 16 hex cap screw 10mm socket



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SECTION IV :

FMTV RADIO RACK



- Fasten (Item 8) top support to wall.
- Use M6 x 12 OD washers as spacers A/R between thread insert and rack.
(For truck serial numbers prior to 18550 only)

(2) M6-1 x 25

(2) M6 x 18 flat washer

A/R M6 x 12 flat washer

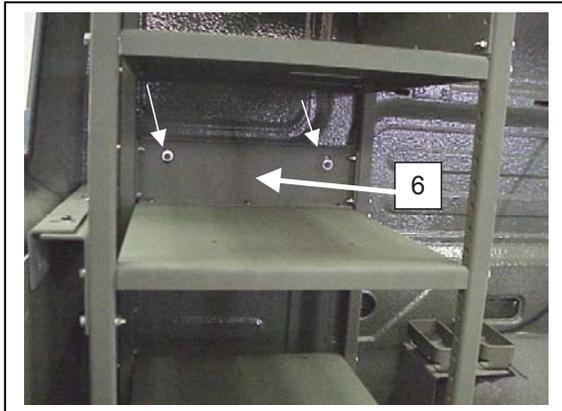
Loctite

Torque wall screws to 72-80 lb in. (8 – 9 N.m)

10mm socket

10mm ratchet

Torque wrench



- Fasten (Item 6) Rear Support to wall.
- Use M6 x 12 OD washers as spacers A/R between thread insert and rack.

(2) M6-1 x 25

(2) M6 x 18 flat washer

A/R M6 x 12 flat washer

Loctite

Torque to 72-80 lb in. (8-9 Nm)

10mm socket

10mm ratchet

Torque wrench

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SECTION IV :

FMTV RADIO RACK



- Passenger side quarter panel plastic over the last three 6mm threaded inserts use three M6 -12mm washers per hole as shims before screwing (Item 11) into the 6mm threaded inserts.
- On the back wall panel utilize three M6 x 12mm OD washers for spacers.

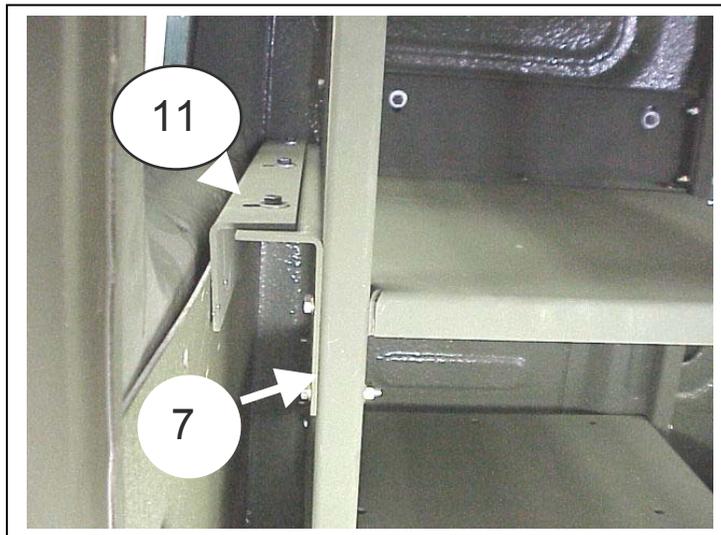
Note: The head of the insert must be in contact with the rack.

The above notes are applicable to trucks prior to serial number 18550. Trucks with serial numbers 18550 and higher have weld nuts installed.

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- Fasten (Item 11) outer side support to wall. (Item 11) can be positioned above or below (Item 7).

(3) M6-1 x 25

(3) M6 x 18 flat washer

Loctite

Torque to 72-80 lb in. (8-9 Nm)

10mm socket

10mm ratchet

Torque wrench

- Fasten (Item 11) to (Item 7).

(3) M6-1 prevailing torque nut

(3) M6-1 x 16

(3) M6 x 18 flat washer

Loctite

Torque to 72-80 lb in. (8-9 Nm)

10mm socket

10mm ratchet

- Torque remaining shelf screws to 72-80 lb in. (8-9 Nm)

10mm socket

Torque wrench

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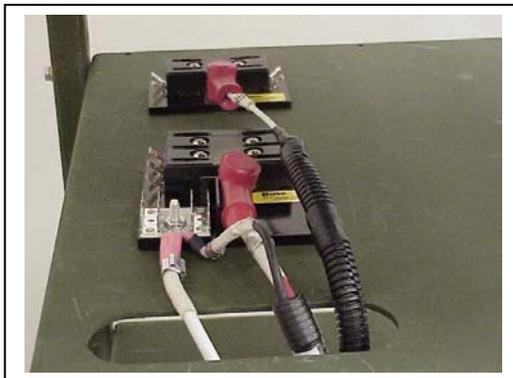
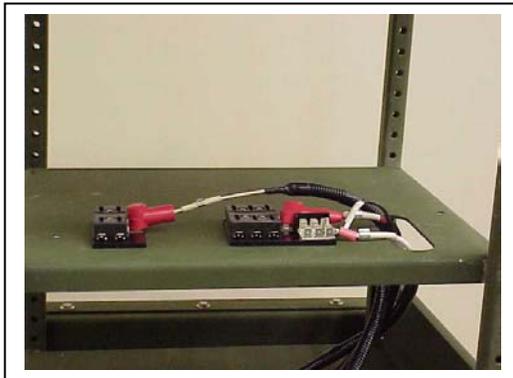
SECTION IV :

FMTV RADIO RACK

Assemble Circuit boxes to shelf if necessary.



- Install electric distribution circuit breaker blocks to (Item 10) power distribution shelf per WP Digitalization manual.
- Coil wires loosely then wire tie the wires to the leg supports.



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SECTION V :

PASSENGER SEAT MODIFICATION

**FMTV
PASSENGER SEAT
MODIFICATION**

Ref 57K2043

This section applicable to trucks previous to serial number 18550 which do not have an adjustable right hand seat cushion.
Ref 57K2043, item 2, (57K2030, Adjustable Seat Kit).



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SECTION V :

PASSENGER SEAT MODIFICATION

INDEX

PAGE	OPERATION
61	PARTS AND TOOLS
62-63	EXCHANGE SEAT CUSHION (12414335-004)
64	REINSTALL SEAT

TABLE 1. PARTS

NOMENCLATURE
RIGHT SEAT CUSHION ASSY

TABLE 2. TOOLS/EQUIPMENT

NOMENCLATURE
13MM SOCKET
RATCHET
1/4" OR LESS DIAMETER ICE PICK LIKE PROBE
LOCTITE (liquid thread locker)

SECTION V :

PASSENGER SEAT MODIFICATION

Exchange Seat Cushion



- Remove right front seat from vehicle.
- Use a 13mm socket to remove the seat back from the original seat cushion.
- Discard original seat cushion
- Reinstall the passenger seat back on the new adjustable seat cushion (12414335-004).

SECTION V :

PASSENGER SEAT MODIFICATION

Exchange Seat Cushion



- Loctite threads of both small rear screws then install seatback to cushion but do not tighten rear screws



- Find center of 1'' wide tube on both sides of the cushion.
- Use ice pick to find T-nut.



- Find T-nut.
- Clear material away from T-nut threads with ice pick.



- Test fit both front larger screws in T-nut for clearance.
- Remove front screws.
- Loctite threads of both front screws then install.
- Tighten all screws.

SECTION V :

PASSENGER SEAT MODIFICATION

Reinstall Passenger Seat



- Align fire extinguisher bracket hole with the holes in the seat base.
- Remove Fire Extinguisher Support 12418370 (obsolete) and replace with 12418370-002.
- Remove Fire Extinguisher Mounting Bracket Assy. 12418353 and reattach to Fire Extinguisher Support 12418370-002.



- Loctite screw threads.
 - Reinstall screws
- 13mm wrench
- Test seat for correct movement.

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SECTION VI :

INSTALLATION OF DIGITIZATION HARNESS

**INSTALLATION INSTRUCTION
FOR THE
DIGITIZATION HARNESS**

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SECTION VI :

INSTALLATION OF DIGITIZATION HARNESS

TOOLS

- Phillips or Straight head screwdriver
- Ratchet set with deep wall sockets (5/16", 7/16" and 1/2")

HARDWARE

Circuit Breaker distribution Panel

- (6) #10-24 x 1 1/2" Machine Screws, Stainless Steel, Round Head
- (6) #10-24 Stainless Steel, Standard Nut
- (6) 6mm Stainless Steel, Lock Washer

Ground Stud behind PDP

- (1) 1/4" Stainless Steel, Lock Washer
- (1) 1/4" Stainless Steel, Standard Nut

Circuit Breaker, 40 Amp

- (2) #10 x 3/4" Stainless Steel Sheet Metal Screw
- (2) #10 x 1" Stainless Steel Sheet Metal Screw

Cover

- (2) Stainless Steel Wing Screws, DIN 316 - M6 x 14-ST-C

Misc.

- (4) Tie Straps, MS3367-2-0

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SECTION VI :

INSTALLATION OF DIGITIZATION HARNESS

1. Install distribution Panel, 6 Way (See Figure 1) and Distribution Panel, 4 Way (See Figure 2) on shelf in designated location and assemble rack (2nd shelf from top, See Figure 3).

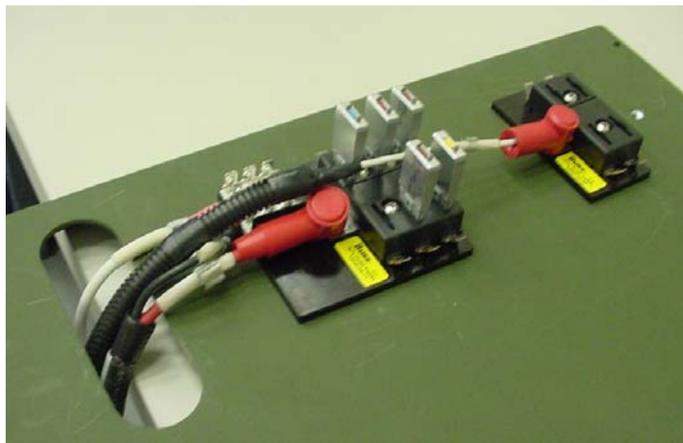
Figure 1



Figure 2



Figure 3



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SECTION VI :

INSTALLATION OF DIGITIZATION HARNESS

- 2. Route the harness down the rack and use cable ties to hold them in place. Tie the excess wire up until the rack has been installed in the vehicle.



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SECTION VI :

INSTALLATION OF DIGITIZATION HARNESS

3. After the rack has been installed and secured, untie the excess harness and route it under the mat to the dash.



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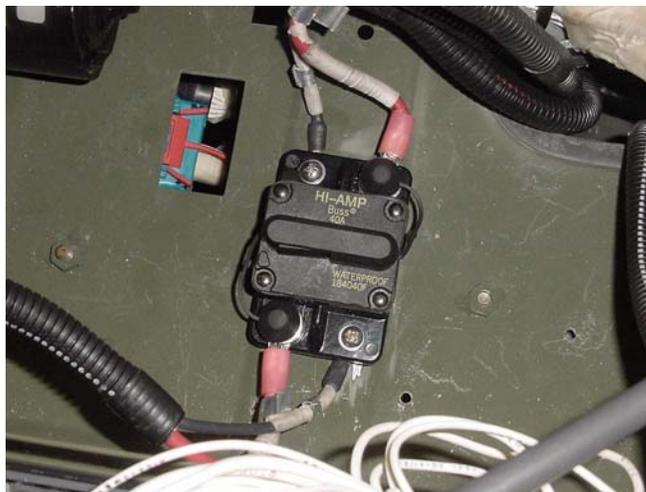
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SECTION VI :

INSTALLATION OF DIGITIZATION HARNESS

4. Disconnect power to the vehicle.
5. Remove the PDP cover and PDP. Push/pull harness through the opening under the dash.
6. Drill holes into the dash and install the 40 Amp Manual Reset Circuit Breaker in designated location behind the dash. Secure with hardware provided. Drill holes into the sheet metal and remove paint. Attach the drain wires to the sheet metal using the sheet metal screws provided. **Note: Do not install shield wires under circuit breaker as shown. These pictures were inserted for placement of circuit breaker. The shield wires are installed to the sides of the circuit.**



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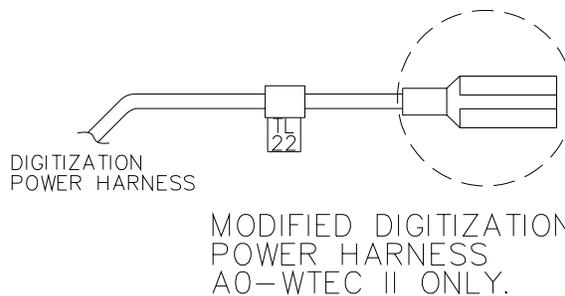
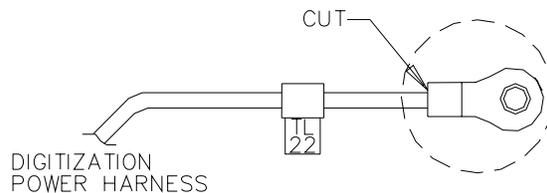
INSTALLATION OF DIGITIZATION HARNESS

A1 SPECIFIC

7. Remove nut and washer to the 24V Battery stud and place TL-20 on the stud.
Replace nut and washer.
8. Remove nut and washer to the 24V Ignition stud and place TL-22 on the stud.
Replace nut and washer.
9. Connect TL-21 to the TB-2 ground stud and secure with hardware provided.
Connect TL-14 to TB-2 connector, location 46.

A0 WTEC II SPECIFIC

10. Cut ring terminal from TL-22 on harness 12422679, and strip insulation back 5/16 inch. Refer to figure below.
11. Insert wire into spade terminal 12420344 (included in kit) and crimp terminal onto wire. Refer to figure below for finished configuration



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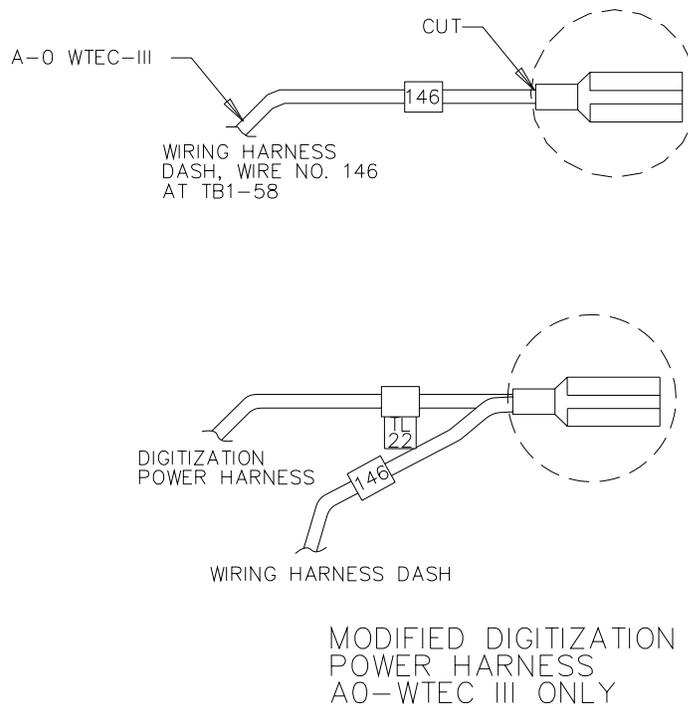
SECTION VI :

INSTALLATION OF DIGITIZATION HARNESS

12. Remove nut and washer to the 24V Battery stud and place TL-20 on the stud.
Replace nut and washer.
13. Connect TL-22 in location TB1-58.
14. Connect TL-21 to the TB2 ground stud and secure with hardware provided.
15. Connect TL-14 in location TB2-5.

A0 WTEC III SPECIFIC

16. Cut ring terminal from TL-22 on harness 12422679, and strip insulation back 5/16 inch.
17. Remove wire 146 from TB1-58. Cut off spade terminal and strip insulation back 5/16 inch.
18. Insert wires 146 and TL-22 into spade terminal 12420344 (included in kit) and crimp terminal onto wires. Refer to figure below for finished configuration



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SECTION VI :

INSTALLATION OF DIGITIZATION HARNESS

19. Remove nut and washer to the 24V Battery stud and place TL-20 on the stud.
Replace nut and washer.
20. Connect TL-22/146 in location TB1-58.
21. Connect TL-21 to the TB2 ground stud and secure with hardware provided.
22. Connect TL-14 in location TB2-5.

All VARIANTS

23. Install the following circuit breakers:
 - a. CB1, 7.5A (MTS SENSE)
 - b. CB2, Blank
 - c. CB3, Blank
 - d. CB4, Blank
 - e. CB5, 10A (EPLRS)
 - f. CB6, 7.5A (DVE)
 - g. CB7, 7.5A (PLGR)
 - h. CB8, 15A (SINCGARS/FBCB2)
 - i. CB9, Blank
 - j. CB10, 20A (MTS POWER)
24. Connect the equipment to the distribution panel.
25. Connect power to the vehicle.

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