

LIMITED URGENT

MWO effective date is 1 September 1989 and completion date is 31 August 1991.

MWO 9-2320-242-35

MODIFICATION WORK ORDER

**MODIFICATION OF 1-1/4 TON VEHICLES
M792/561 SERIES VEHICLES**

TRUCK, AMBULANCE	2310-00-832-9907
TRUCK, CARGO	2320-00-873-5407

Headquarters, Department of the Army, Washington, D.C.

28 AUGUST 1989

REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this MWO. If you find technical errors that could cause personal injury or damage to materiel, please let us know. Contact U.S. Army Tank-Automotive Command, Heavy Tactical Vehicle Branch, AMSTA-MTC and report the needed corrections by telephoning AUTOVON 786-7516 or Commercial (313) 574-7516. Additionally, complete a DA Form 2028, Recommended Changes to Publications and Blank Forms, and mail to: Commander, U.S. Army Tank-Automotive Command, ATTN: AMSTA-MB, Warren, MI 483975000. A reply will be provided to you.

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

1. PURPOSE. The purpose of this modification is to provide occupant restraint system (Seat Belts) to minimize occupant injuries during vehicle accidents.

2. PRIORITY. This modification is classified LIMITED URGENT. Operating restrictions provided therein remain in effect until this modification is applied.

3. END ITEMS TO BE MODIFIED. See Table 1.

- a. 1-1/4-Ton M561 and M792 Series Vehicles.

Table 1. End Items to be Modified.

Nomenclature	NSN	Part No.	Cage	Model No.	Serial No.
Truck, Cargo	2320-00-873-5407	8736407-1	19207	M561	All
Truck, Ambulance	2310-00-832-9907	8736827	19207	M792	All

- b. Vehicle National Stock Number (NSN) will not change as a result of this MWO.

4. MODULE TO BE MODIFIED. Not applicable.

5. PARTS TO BE MODIFIED. See Table 2.

Table 2. Parts to be Modified.

Nomenclature	NSN	Part No.
Access Cover	2540-01-140-6586	11594841
Console	2510-00-171-2755	11594951

6. APPLICATION.

a. *Time Compliance Schedule:* The effective date of this MWO is 1 September 1989 and its completion date is 31 August 1991.

b. *Lowest level of Maintenance authorized to apply this MWO:* Direct Support.

c. *Work force and man-hour requirements for application of this MWO to a Single Unit, End Item or System is as follows:*

REQUIREMENTS

WORK FORCE/SKILLS

MAN-HOURS

2 Wheeled Vehicle Mechanics
(MOS 63B) or equivalent

4 Hours

Total man-hours required for a single application of this MWO is 4 hours.

- d. *MWOs to be Applied Prior to or Concurrently with the Application of this MWO:* Not applicable.
- e. *Additional Information Necessary to apply this MWO.* Not applicable.

7. TECHNICAL PUBLICATIONS AFFECTED/CHANGED AS A RESULT OF THE MWO.

1-1/4 -Ton M561 and M792 Series Technical Publications

	<u>Date</u>
TM 9-2320-242-10 Series	September 1980
TM 9-2320-242-20 Series	November 1980
TM 9-2320-242-20P	March 1985
TM 9-2320-242-34P	April 1985

8. MWO KITS, PARTS, AND THEIR DISPOSITION. See Table 3.

- a. The following kit is required to accomplish this modification. The security classification of the kit is unclassified. Shipping data is: Weight 35.0 lbs; the kit measures 20.0 x 12.0 x 12.0 in.; its volume is 1.66 cu ft.

Table 3. Parts Required to Perform MWO 9-2320-242-35.

Nomenclature	NSN	Cage	Part No.
Seat Belt Kit	2540-01-301-9282	19207	57K1166

- b. Seat Belt Kit component parts are listed below. The listing is used to inventory the kit for completeness.

NSN	Nomenclature	Cage	Part No.	Quantity
	Seat Belt Assembly	19207	12370471	
5310-00-809-5998	Washer, Flat	96906	MS27183-18	2
5310-01-219-0421	Washer, Flat	96906	MS27183-14	6
5310-00-488-3889	Nut, Self-Lock	96906	MS51943-39	4
5310-00-935-9021	Nut, Self-Lock	96906	MS51943-35	6
5305-00-068-0511	Screw	96906	MS90728-62	6
5305-00-732-0511	Screw	96906	MS90728-110	2
5305-00-071-2069	Screw	96906	MS90728-113	2
5340-01-305-8167	Bracket, Seat Belt, Left	19207	12370472-2	1
5340-01-305-8166	Bracket, Seat Belt, Right	19207	12370472-1	1
8030-01-124-7622	Adhesive, Sealant	83574	PR-1436-GB2	1

- c. *Bulk and expendable material.* Not applicable.
- d. *Parts disposition.* Not applicable.

9. SPECIAL TOOLS; TOOL KITS; JIGS; TEST, MEASUREMENT AND DIAGNOSTIC EQUIPMENT (TMDE); AND FIXTURES REQUIRED. See Table 4.

Hand tools necessary to perform premodification inspection and to apply MWO are contained in this tool kit.

Table 4. Special Tools and Tool Kits.

Nomenclature	NSN	Cage	Supply Catalogue
Tool Kit, General Mechanic's	5180-00-177-7033	50980	SC 5180-90-CL-N26
Shop Equipment, Automotive Maintenance and Repair, Field Maintenance and Repair: Basic, Less Power	4910-00-754-0705	19204	SC4910-95-CL-A31

10. MODIFICATION PROCEDURES.

a. Preliminary Procedures:

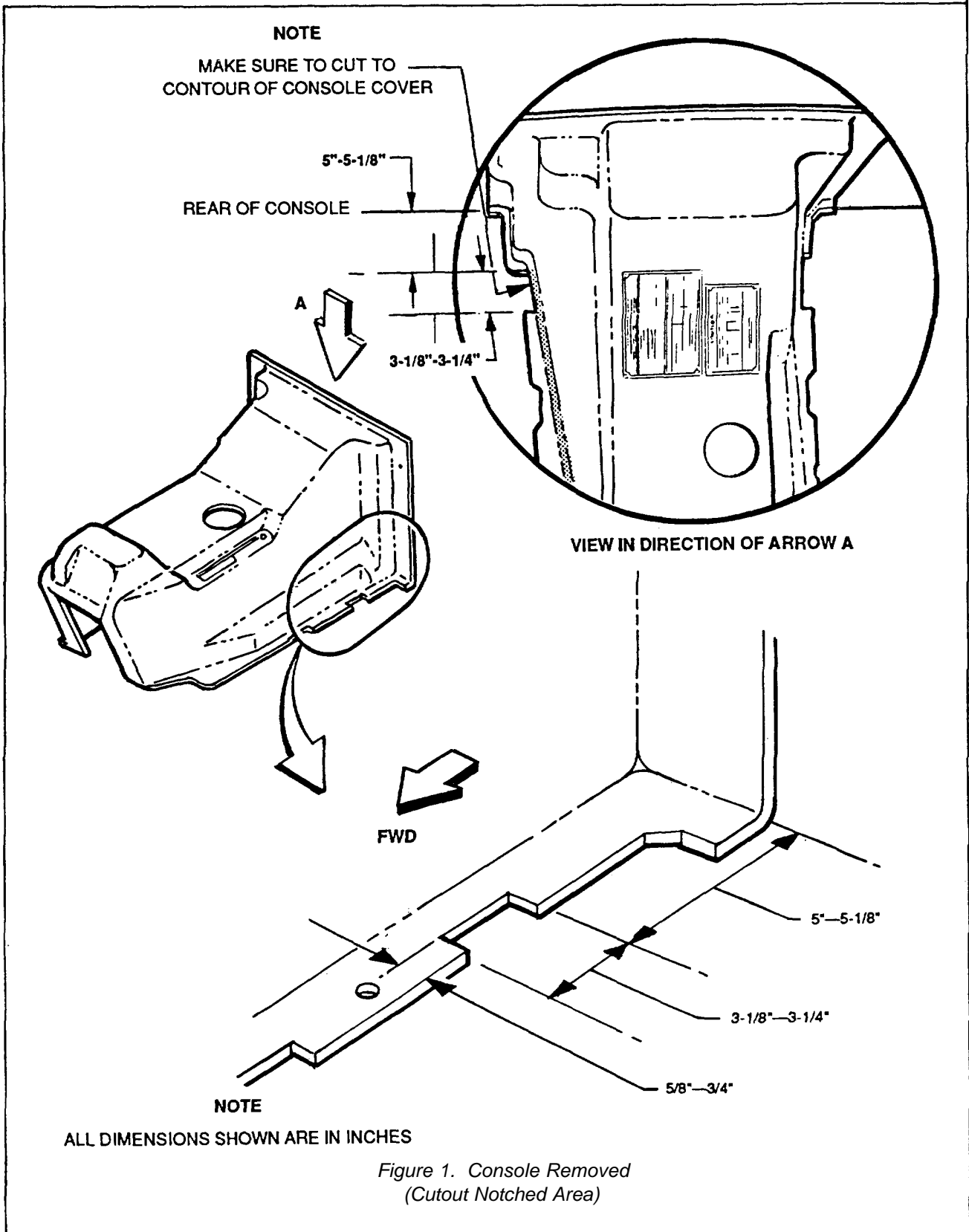
- (1) Truck parked, engine off, parking brake set.
- (2) Remove driver's and companion seat assemblies. (refer to TM 9-2320-242-20-3-2)
- (3) Remove console. (refer to TM 9-2320-242-20-3-2).

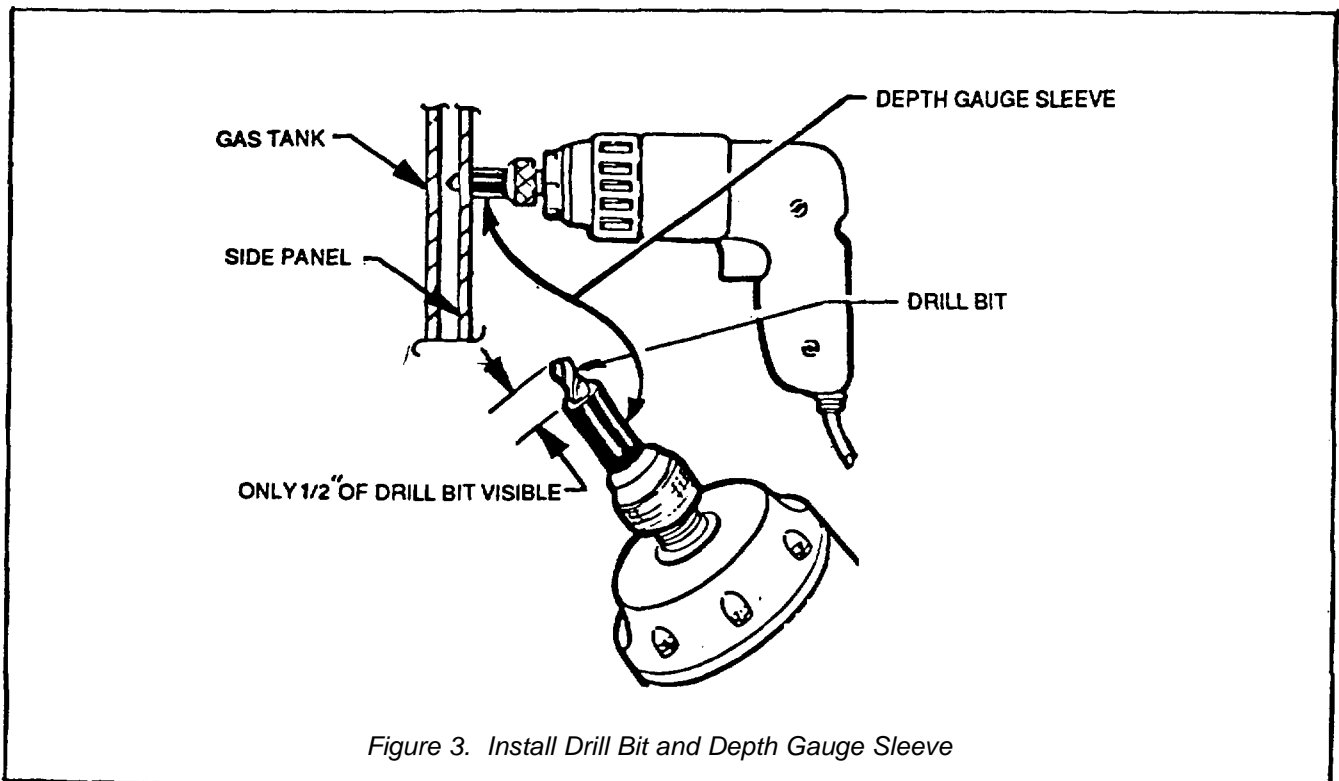
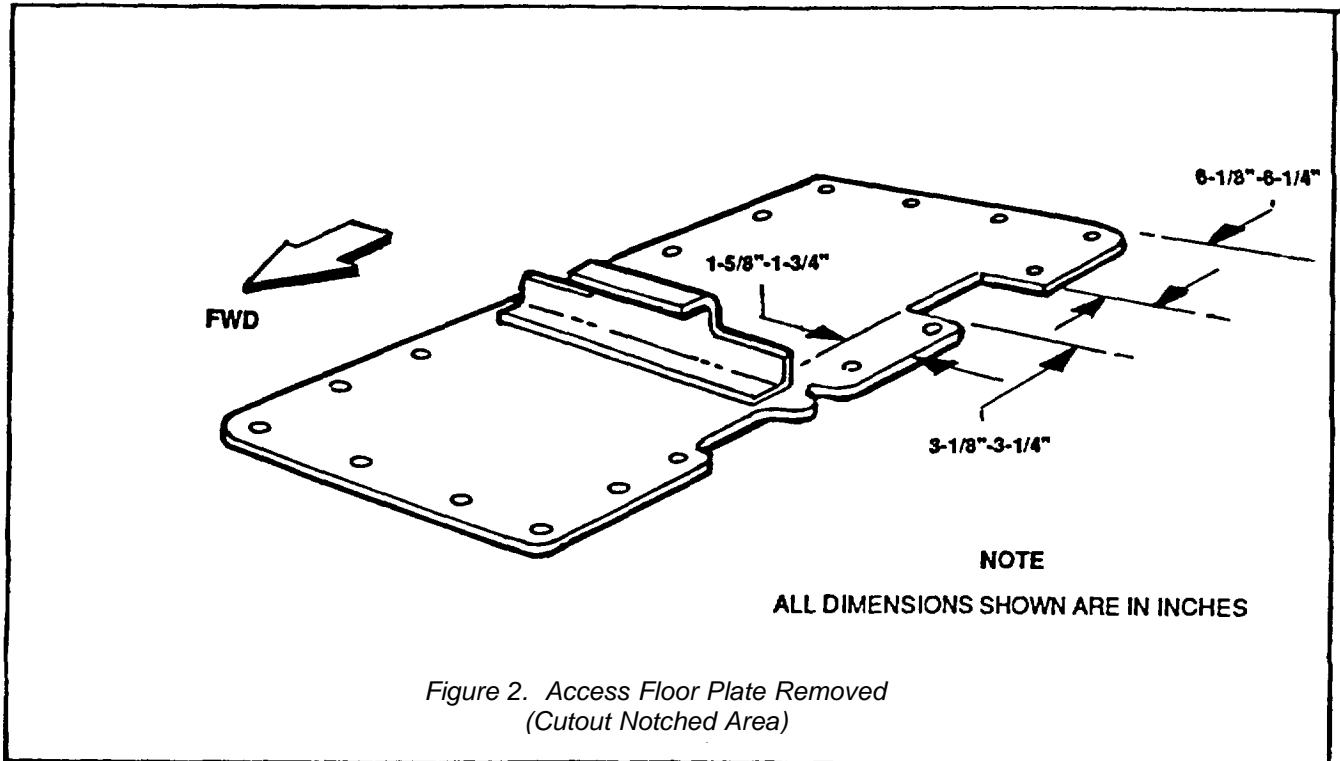
WARNING

Transmission cover is made of fiberglass. Make certain area is well-ventilated. A mask is to be worn while cutting the transmission cover.

b. Modification Procedures:

- (1) Surface preparation.
 - (a) Remove plate from floor on right side of vehicle (passenger's side).
 - (b) Lay floorplate and transmission cover on a flat surface.
 - (c) Locate and measure the area on the right and left side of console which is to be notched.
 - (d) Using a scribe and a ruler, mark the console on the right (passenger) side. (figure 1).
 - (e) Locate, measure and mark the area on the floorplate which is to be modified. (figure 2).





(f) Using a hacksaw, carefully cut out marked area on right (passenger) side of console, making sure to cut to contour. (figure 1).

(g) Using a hacksaw, carefully cut out marked area on left (driver's) side of console. (figure 1).

(h) Using a hacksaw, carefully cut out marked area on floorplate. (figure 2). Reinstall floorplate using existing 18 screws.

(i) Install and tighten 3/8 inch or 'V' size drill bit in drill. (figure 3).

(j) Use a depth gauge or fabricate a sleeve from fuel line hose or equivalent, so that only 1/2 inch of the drill bit is visible from the end of the sleeve. (figure 3).

CAUTION

- **Use a depth gauge (sleeve) over the drill bit when drilling holes in the side panels to avoid puncturing the fuel tank.**
- **Use cooling fluid while drilling holes.**

(2) Drilling Crew Compartment Holes for Installation of Seat Belts.

(a) Using bracket 12370472-1 as a template, place against the crew compartment rear wall and the passenger's side panel.

(b) Using a punch, ball peen hammer and the drill with the depth gauge (sleeve), scribe and drill a 3/8 inch hole in the passenger's side panel at the bottom forward hole "A". (figure 4).

(c) Secure the bracket temporarily to side panel, using MS90728-62 screw and MS51943-35 nut, finger tight. Drill holes "B" and "C". (figure 4).

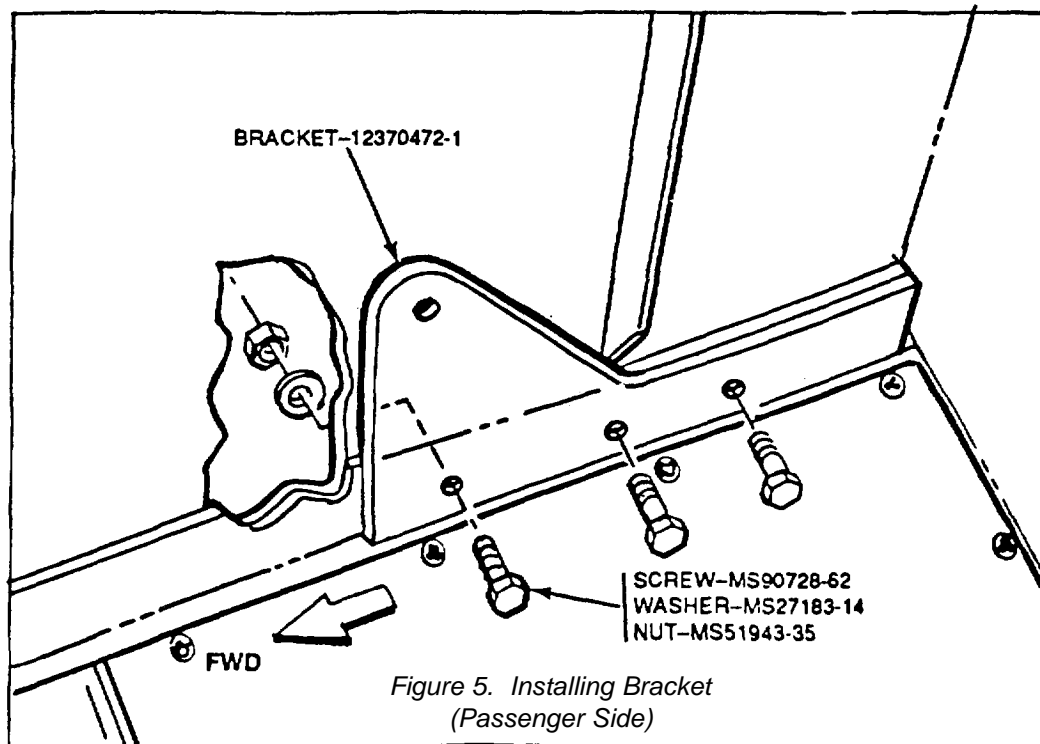
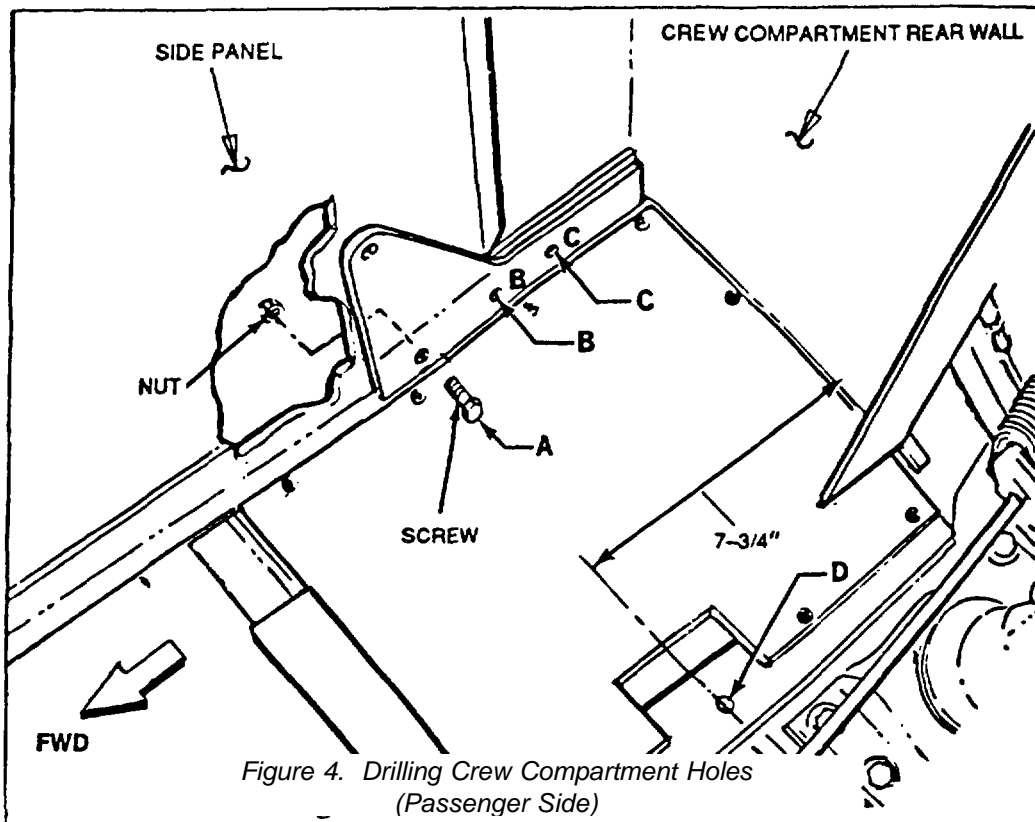
(d) Locate, measure and drill a 1/2 inch hole "D" 7-3/4 inches from the rear wall of the crew compartment. (figure 4)

(e) Remove screw and nut from bracket. Remove bracket and clean debris off of bracket, floor and areas where holes were drilled.

(f) Using RTV (adhesive), NSN 8040-00-701-9546, apply a 1/4 inch bead around each of the outer bracket holes. When properly installed, the RTV is between the bracket and sidewall. This will ensure a water tight seal during water operations.

(g) Install outboard seat belt to 12370472-1 bracket using MS90728-110 screw and MS5194339, finger tight. (figure 6)

(h) Using soldier #2 install bracket 12370472-1 using three MS90728-62 screws, three MS27183-14 washers and three MS51943-35 nuts. Tighten screws 40-45 lb. ft. (figure 5)



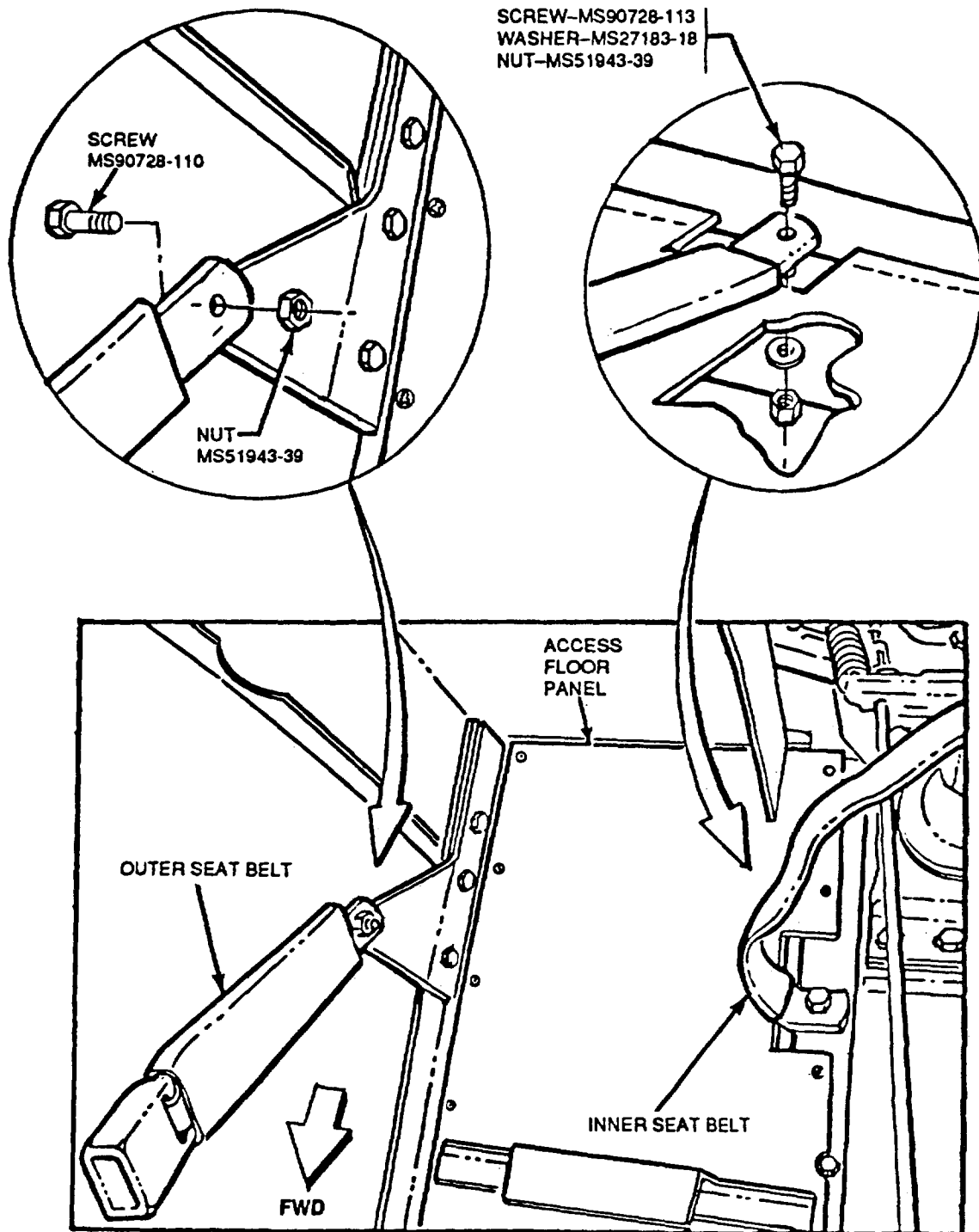


Figure 6. Passenger's Side Shown
(Drivers Side Typical)

(i) Tighten outboard seat belt attachment screw (MS90728-110) and nut (MS51943-39) to 100-110 lbs. ft. (figure 6).

(j) Install inboard seat belt to floor using MS90728-113 screw, MS27183-18 washer and MS51943-39 nut. Tighten screw to 100-110 lbs. ft.. (figure 6).

(k) Repeat procedures for the driver's side using 12370472-2 as a template. (Passenger's side is shown as typical, except for passenger's removable access floor panel).

(3) Installing Seat Belt Warning Stencil.

(a) Use 1/2" Stencil Kit (NSN 7520-00-205-1760) to compose the Seat Belt Warning. (figure 7)

(b) Apply stencil using lusterless yellow or appropriate unit mission requirement colors. (figure 8)

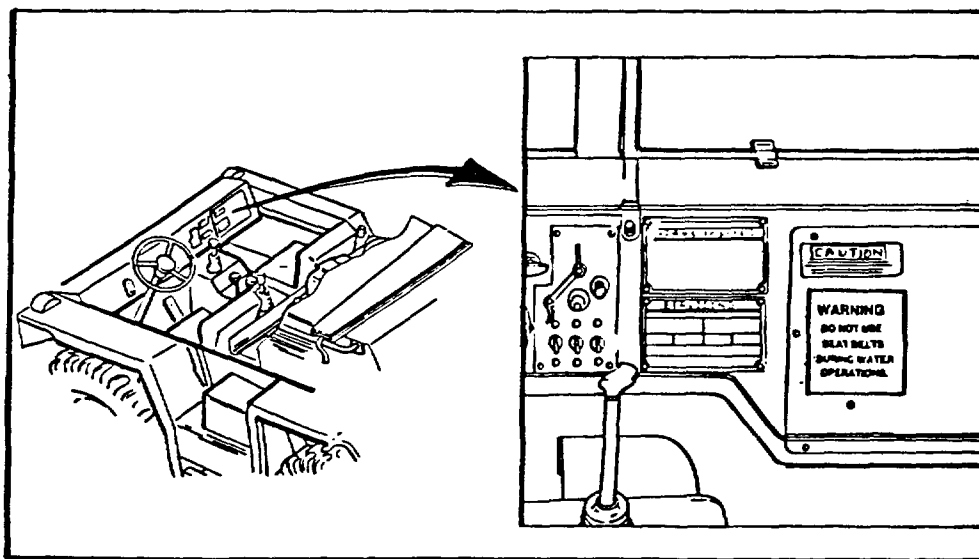


Figure 7. Seat Belt Warning

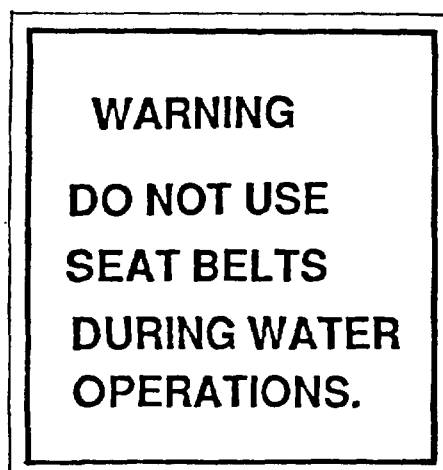


Figure 8. Typical Stencil Pattern

11. CALIBRATION REQUIREMENTS. Not applicable to this MWO.

12. WEIGHT AND BALANCE DATA. Weight and balance are not significantly affected.

13. QUALITY ASSURANCE REQUIREMENTS. Physical Inspection: Check components installed for security of mounting. All components installed during these procedures must be properly mounted.

14. RECORDING AND REPORTING OF THE MODIFICATION.

a. Records and report forms. (Refer to DA PAM 738-750)

b. Marking Equipment. After Seat Belt Kit is installed, mark MWO Number "9-2320-242-35" in MWO Applied Block and date applied in Date Block on MWO Data Plate.

15. PRODUCT IMPROVEMENT PROPOSAL (PIP) NUMBER. This MWO is authorized by PIP number 1-89-06-4219.

16. MODIFICATION IDENTIFICATION.

a. When installed correctly, seat belt modification to driver's seat and companion seat will appear as in figure 6.

b. After Seat Belt Kit is installed, seat belt anchors should be tested for secure mounting and smooth operation. Any seat belt assembly found to be non-functional or with discrepancies in mounting will be corrected before the vehicle is returned to normal service.

By Order of the Secretary of the Army:

CARL E. VUONO
*General United States Army
Chief of Staff*

Official:

WILLIAM J. MEEHAN II
*Brigadier General United States Army
The Adjutant General*

Distribution:

To be distributed in accordance with DA Form 12-38-R, Direct Support and General Support maintenance requirements for Truck, Cargo, 5/4-ton, 6x6, M561, M792..

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