LIMITED URGENT

MWO effective date 1 Sap 1982 and completion date 29 Dec 1982

MWO 9-2320-287-35

MODIFICATION WORK ORDER

MODIFICATION OF TRUCK TRACTOR, COMMERCIAL HEAVY EQUIPMENT TRANSPORTER (C-HET) 85,000 GVWR, 8x6, M911 INSTALLATION INSTRUCTIONS FOR TOW KIT, P/N 126306-RU NSN 2540-01-118-2901

Headquarters, Department of the Army, Washington, DC

1 August 1982

REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

You can improve this manual, If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms) direct to: Commander, US Army Tank-Automotive Command, ATTN: DRSTA-MBT, Warren, MI 48090. A reply will be furnished to you.

1. PURPOSE OF MODIFICATION

The purpose of this modification is to provide rear brake and stop light operation on an M911 Truck Tractor being towed.

2. PRIORITY CLASSIFICATION

This modification is classified as LIMITED URGENT.

MWO effective date 1 Sep 1982 and completion date 29 Dec 1982.

a. Equipment in use (including equipment in supply or maintenance activities below depot level and equipment in administrative storage). Equipment in use may continue to be operated for a specific limited period of time, not to exceed 120 days, provided that specific cautions are provided by Sponsoring Agency and observed by using commands. These modifications will be accomplished as soon as practicable but no later than MWO completion date. Equipment not modified after expiration of MWO completion date will be reported as NORM/NOT READY in accordance with applicable Army Regulations.

b. Equipment in wholesale depot supply or maintenance activities. All MWO's to include MWO which have been incorporated into DMWR, will be accomplished on serviceable materiel prior to issue and/or subsequent to scheduled completion date. Operational Project Stock stored at the depots will be modified concurrently with depot stock. Issue of unmodified materiel is prohibited. The MWO will be applied to unserviceable materiel during scheduled depot maintenance.

c. Prepositioned stock. LIMITED URGENT MWO will be applied prior to expiration of MWO completion date.

3. END ITEM OR SYSTEM TO BE MODIFIED.

Table 1. End Item to be Modified

NOMENCLATURE	NSN	PART NO.	MODEL NO.	SERIAL NO. RANGE
Truck, Tractor Heavy Equipment Transporter, (C-HET) 85,000 GVWR, 8x6, M911	2320-01-025-3733	N/A	M911	All

4. MODULES (COMPONENTS, ASSEMBLIES, SUBASSEMBLIES, BOARDS, AND CARDS) TO BE MODIFIED. Not Applicable.

5. PART(S) TO BE MODIFIED. Not Applicable.

6. APPLICATION.

a. Time Compliance Schedule. MWO effective date 1 September 1982 and completion date 29 December 1982.

b. Level of Maintenance. Modification will be accomplished by Direct Support maintenance level.

c. Applied BY. Two persons with the following specialties are required to install MWO kit.

Automotive Repairman	(MOS 63H)	3 manhours
or		
Equivalent Civilian Mechanic		3 manhours

d. Time Required.

(1) Total of 3 manhours using 2 persons.

(2) Total of 3 manhours downtime for end item.

(3) Time for completion of one tow kit installation is 3 hours.

(4) Time for completion of one part. Not Applicable

e. MWO to be applied prior to or concurrently with this MWO. Not Applicable.

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

TM 9-2320-270-10
TM 9-2320-270-20
TM 9-2320-270-34
TM 9-2320-270-20P
TM 9-2320-270-34P

8. SUPPLY KITS, PARTS, AND DISPOSITION

a. Kits/parts Required to Accomplish MWO. All parts required to accomplish kit installation are listed in Table 2.

Table 2. Kits/Parts Required

Item Name and Part No.	Quantity Required Per: End Item/System	Figure No.	Item No.
Tow Kit, part number 126306RU (45152), NSN 2540-01-118-2901 consisting of the following:	1 ea		o
Gladhand, Emergency (18572-F)	4 ea	9	1
Gladhand, Service (18571-F)	4 ea	9	2
Valve, Quick Release (17739-F)	1 ea	22	3
Switch, Stoplight (52933-A)	1 ea	23	4
Coupling, Durnmy (768TR)	3 ea	40	5
Lockwasher (354-A)	12 ea	3,7,15,22	6
Anchor Stud (1656-F)	4 ea	9	7
Elbow 90 1/2 x 3/8 inch (111993-A)	2 ea	20	8
Cap Screw 5/16 - 18x1 inch (1846-H-1)	12 ea	3,7,15,22	9
Wire Harness (126307-CW)	1 ea	23	10
Bracket (126308-C)	4 ea	3, 7	11
Tubing 3/8 inch (23323-F)	150 in. (381.0 cm)	1	12
Tubing 3/8 inch (23323-F)	300 in. (762.0 cm)	1	13
Tubing 3/8 inch 23323-5)	56 in. (142.2 cm)	1	14
Protective Coil (119622-A)	48 in. 2 ea (121.9 cm)	12	15
Elbow 1/8 NPTx3/8 inch (1210-F).	1 ea	30	16
Hose Assy (63503-D)	1 ea	42	17
Tubing 3/8 inch (23323-F)	140 in. (355.6 cm)	36	18
Nylon Tie (5201-H)	18 ea	39	19
Clip (2290-H)	4 ea	15	20
Check Valve (18180-F)	1 ea	20	21
Tee 3/4 inch NPT (53371-A)	1 ea	20	22
Close Nipple (53373-A)	1 ea	20	23
Reducing Bushing (50738-A)	1 ea	20	24
Reducing Bushing (50736-A)	1 ea	23	25
Bracket, Quick Release (1227559-C)	1 ea	22	26
Elbow 3/8 NPTx3/8 inch (2991-F)	1 ea	28	27
Reducing Bushing 1/2 x 3/8 inch (1330380)	2 ea	33	28

Table 2. Kits/Parts Required

Item Name and Part No.	Quantity Required Per: End Item/System	Figure No.	Item No.
Close Nipple 3/8 inch (33287-A)	2 ea	33	29
Tee 3/8 inch NPT (51514-A)	2 ea	33	30
Adapter 3/8 NPTx1/2 inch (2120-F)	2 ea	35	31
Tubing 3/8 inch (23323-F)	105 in. (266.7 cm)	36	32
Elbow 1/4 inch NPT (1215-F)	4 ea	10	33
Adapter 3/8 x 3/8 inch (2717-F)	2 ea	36	34
Hex Nut 5/16-18 inch (369-A-1)	12 ea	3,7,15,22	35
Coupling, Dummy (128851-B)	1 ea	41	36
Capscrew 1 inch to 1 1/4 inch long (66345AX)	2 ea	23	37

b. Kits. Tow Kit, part number 126306-RU (45152), NSN 2540-01-118-2901.

c. Distribution and Issue Instructions. Distribution and Issue instructions will be detailed in Memorandum of Understanding.

d. Bulk and Consumable Materials.

Table 3. Bulk and Consumable Materials.

Item	NSN	Qty Required
Tape, teflon	8030-00-889-3534	2 rolls
Tape, electrical	5970-00-644-2636	1 roll
Detergent, GP, liq.	7930-00-282-9699	1/2 pint (0.236 liters)

e. Parts Distribution. Discard nut, sleeve and insert from adapter, part number 2120-F (45152) supplied with kit, and all excess kit material. Material removed and not used should be returned to stock fund for disposition in accordance with AR 255-1.

9. SPECIAL TOOLS; JIGS; TEST, MEASUREMENT AND DIAGNOSTIC EQUIPMENT (TMDE); AND FIXTURES REQUIRED. Not Applicable.

10. MODIFICATION PROCEDURES.

a. Inventory the kit contents using the list in table 2 to assure completeness of the kit.

b. Use the instruction in paragraph 11 to install and check the installation of the tow kit.

CAUTION

Lower pusher axle and drain air reservoirs. Failure to do so could cause serious injury.

11. INSTALLATION

NOTE

- It is important that, before you start, you have five pieces of tubing with the dimensions shown below.
- For kits already fielded; there are approximately:
  - Twenty five kits that contain five pieces cut to the correct length (no problem).
  - Two hundred kits contain two pieces. One 300 inches (762.0 cm) and the other 451 inches (1445.5 cm) (leave 300 inch piece intact, cut other lengths from 451 inch piece).
  - Five hundred twenty-two kits that contain one piece of 751 inches (1902.5 cm) (cut five pieces in any order).
- Do not make any tubing cuts until all dimensions are accounted for (measure before cutting to make sure of getting all 5 pieces of required lengths).

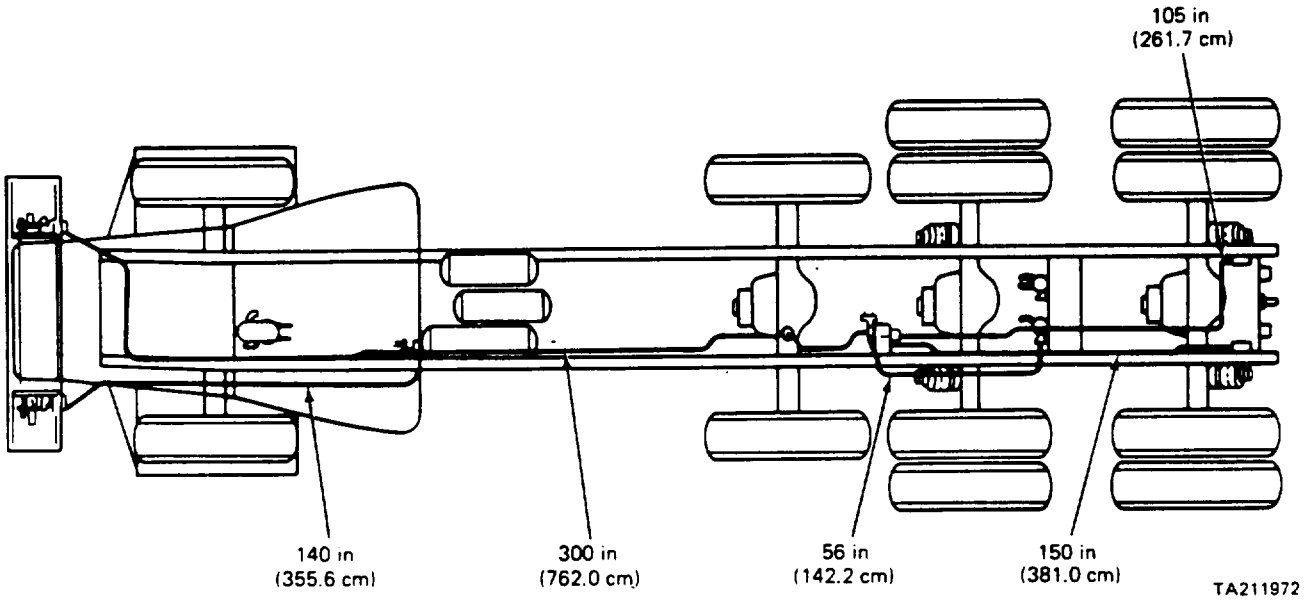

Figure 1. Tubing lengths

NOTE

Installation of gladhand brackets and gladhands for right and left side are the same. Left side shown.

When marking the holes in steps A and B, extend the marks far enough so that they cross each other.

a. Measure and mark 11 inches (27.9 cm) from top of headlight guard (1).

b. Measure and mark 2 1/2 inches (6.4 cm) from the front of grill guard (2).

NOTE

It may be helpful to drill a 1/8 inch (3.18 mm) pilot hole before drilling the 5/16 inch (7.9 mm) diameter hole.

c. Drill a 5/16 inch (7.9 mm) diameter hole (3) where the two marks on the grill guard (2) cross each other.

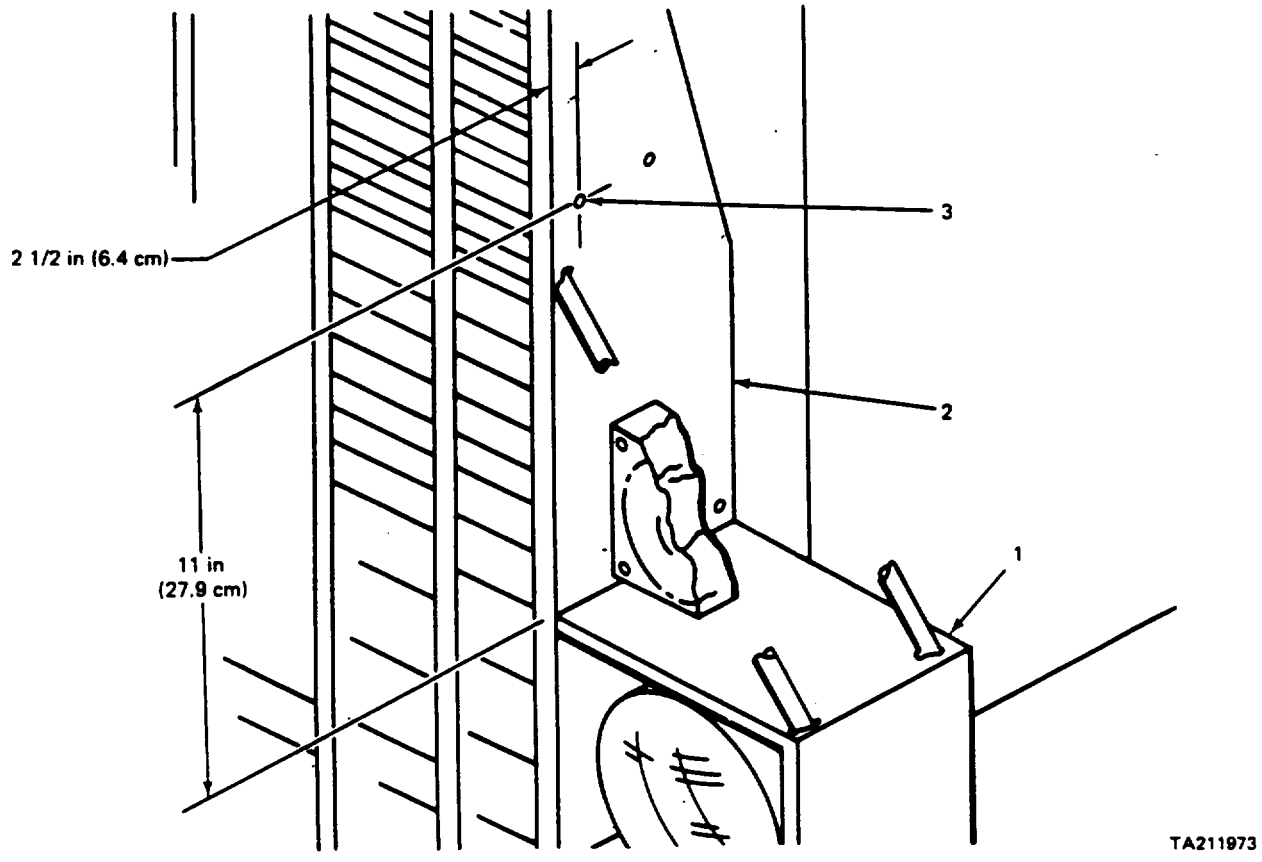

Figure 2. Drilling front gladhand bracket holes

NOTE

Apply primer paint to all drilled holes to prevent rust.

d. Position gladhand bracket (4) (Table 2, Item 11) on grill guard (2).

e. Secure gladhand bracket (4) with capscrew (5) (Table 2, Item 9), lockwasher (6) (Table 2, Item 6), and nut (7) (Table 2, Item 36).

f. Level gladhand bracket (4).

g. Drill 5/16 inch (7.9 mm) diameter hole through grill guard (2), using hole (8) as template.

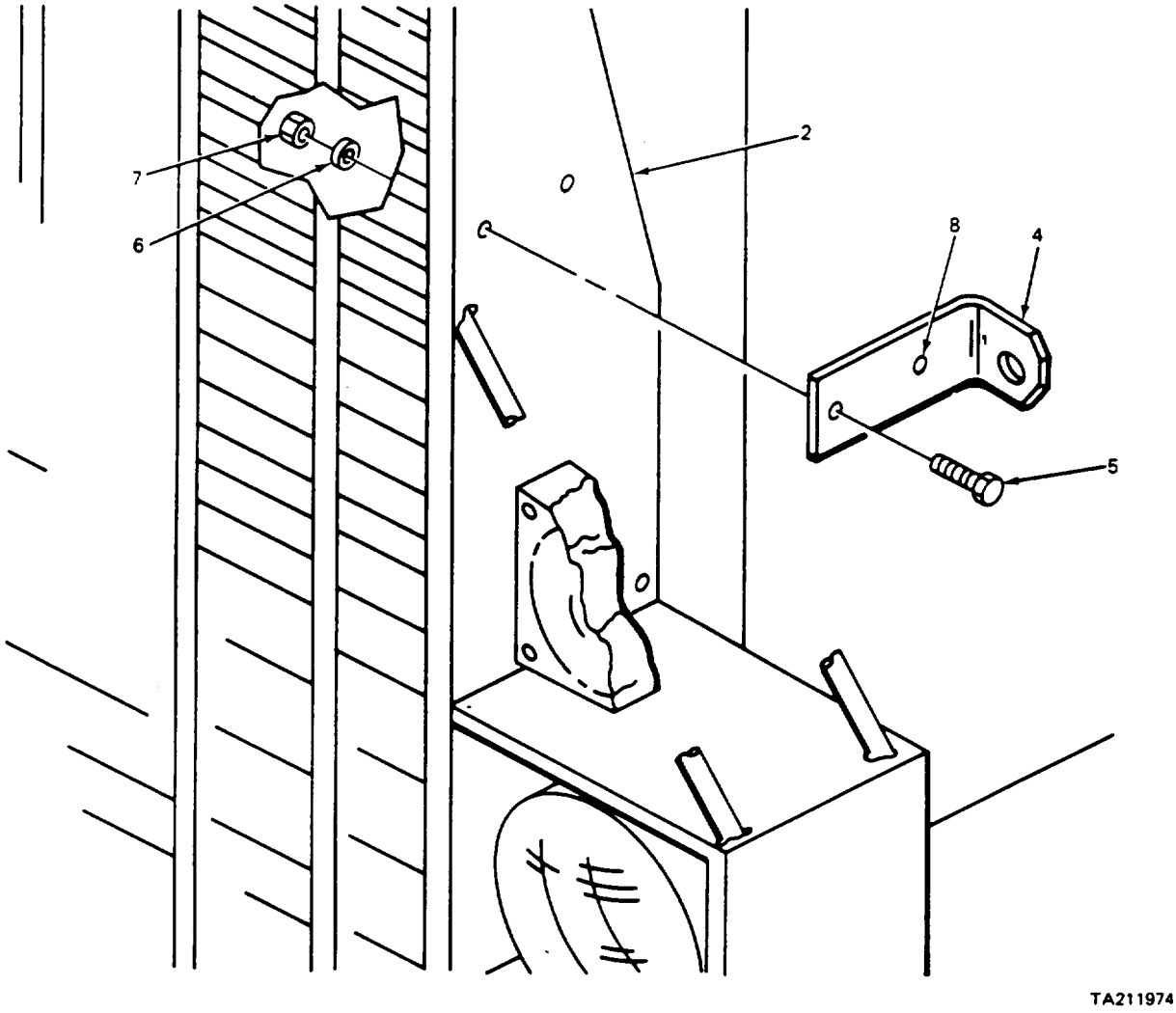

Figure 3. Front gladhand bracket installation

h. Secure gladhand bracket (1) with capscrew (2), lockwasher (3), and nut (4).

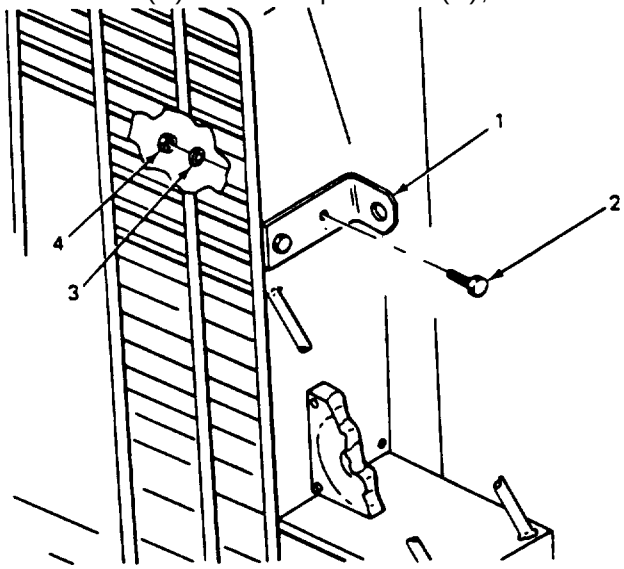

Figure 4. Securing front gladhand bracket

i. Measure, mark and drill one 5/16 inch (7.9 mm) diameter hole 1 inch (2.5 cm) above headlight guard (5) and 1/2 inch (1.3 cm) from back of grill guard (6).

NOTE

Hole that is being drilled in step i will be used later on in this procedure.

j. Perform steps a through i on right side of the M911 Truck Tractor.

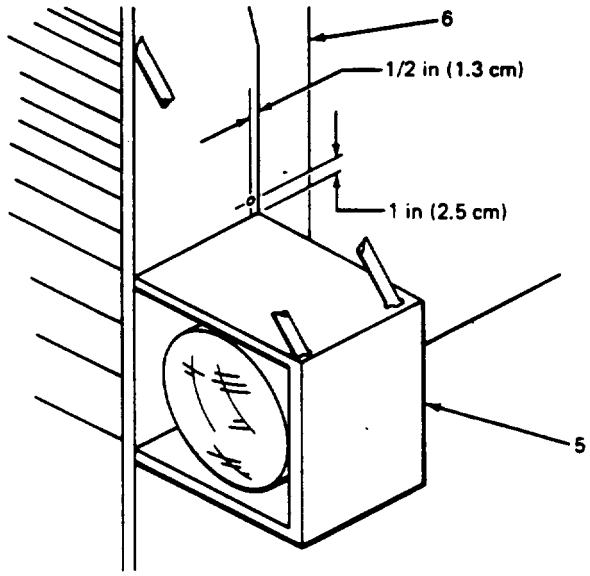

Figure 5. Drilling front hose clip hole

k. Measure and mark one 1-3/4 inches (4.5 cm) inward from edge of rear frame rail (7), 2 inches (5.1 cm) rearward from the front crossmember (8).

l. Drill one 5/16 inch (7.9 mm) diameter hole where the two marks on the crossmember (8) cross each other.

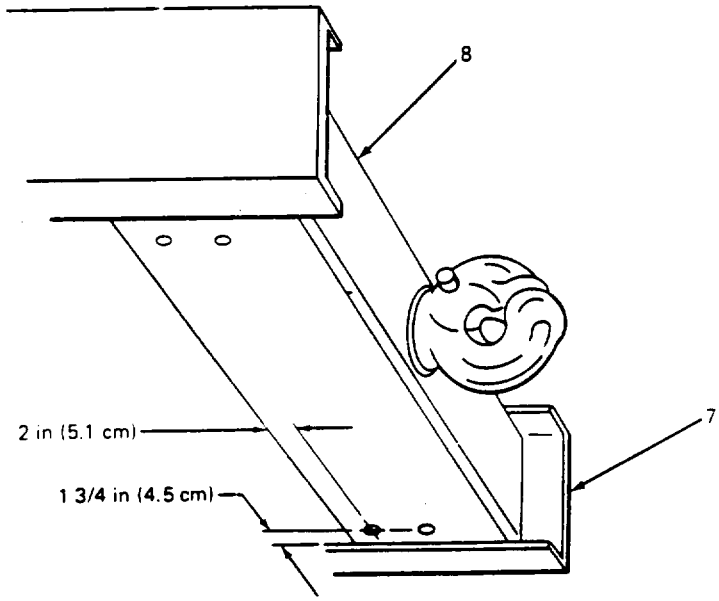

Figure 6. Drilling rear gladhand bracket holes

m. Secure gladhand bracket (9) (Table 2, item 11) to crossmember (8) with cap-screw (10), (Table 2, item 9), lockwasher (11), (Table 2, item 6) and nut (12) (Table 2, item 36).

NOTE

Insure gladhand bracket (9) is parallel with frame rail (7).

n. Drill 5/16 inch (7.9 mm) diameter hole through crossmembe (8) with cap-(13) as a template.

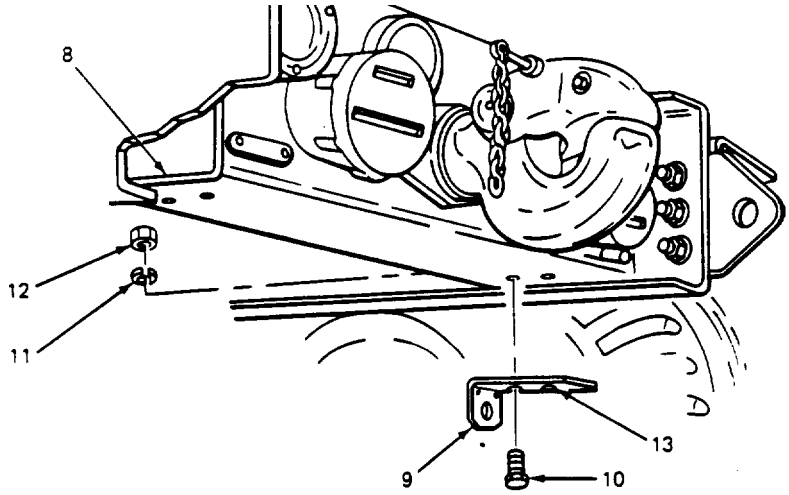

Figure 7. Rear gladhand bracket installation

o. Secure gladhand bracket (1) to crossmember (2) with capscrew (3), lockwasher (4), and nut (5).

p. Perform steps k through o on the left side of the M911 Truck Tractor.

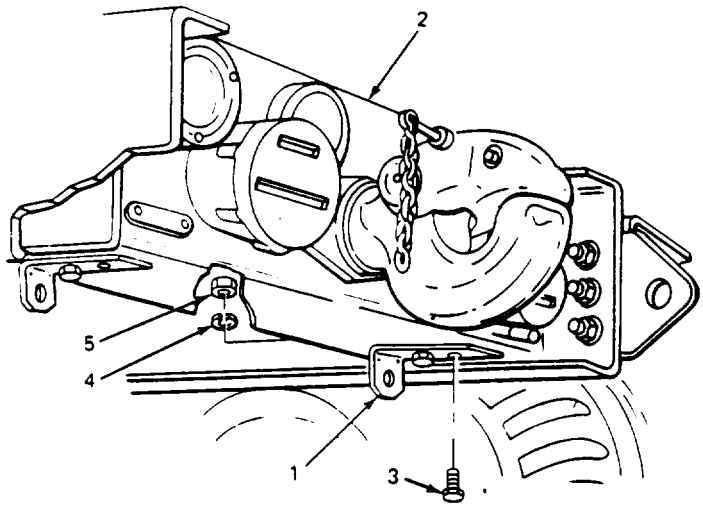

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Figure 8. Securing rear gladhand bracket

NOTE

Wrap two turns of teflon tape on all threaded fittings prior to installation two threads from open end of fitting.

q. Install four gladhands (6) (Table 2, Items 1 and 2) onto four anchor studs (7) (Table 2, Item 7).

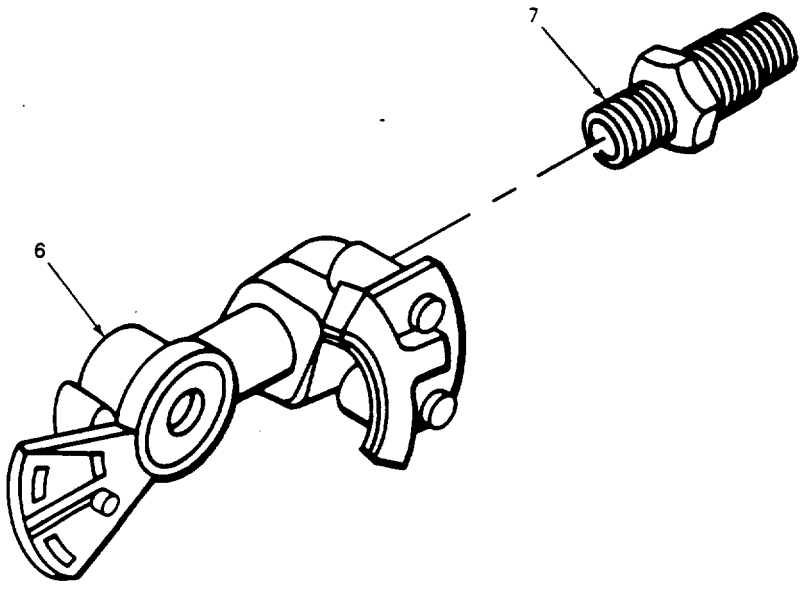

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Figure 9. Installing gladhands on anchor studs

NOTE

Service gladhand assembly (blue) goes on the right side of M911 Truck Tractor, emergency gladhand assembly (red) goes on the left.

r. Position gladhand assembly (blue) (8) in bracket (1), with opening facing downward.

NOTE

Lockwasher (9) and nut (10) are part of gladhand assembly (8).

s. Secure gladhand assembly (8) with lockwasher (9) and nut (10).

t. Install elbow (11) (Table 2, Item 33), in gladhand assembly (8) with elbow (11) in the eleven o'clock position as viewed from the rear of the M911 Truck Tractor.

u. Perform steps r throuqh t on the left side of the M911 Truck Tractor for the emergency gladhand assembly (red).

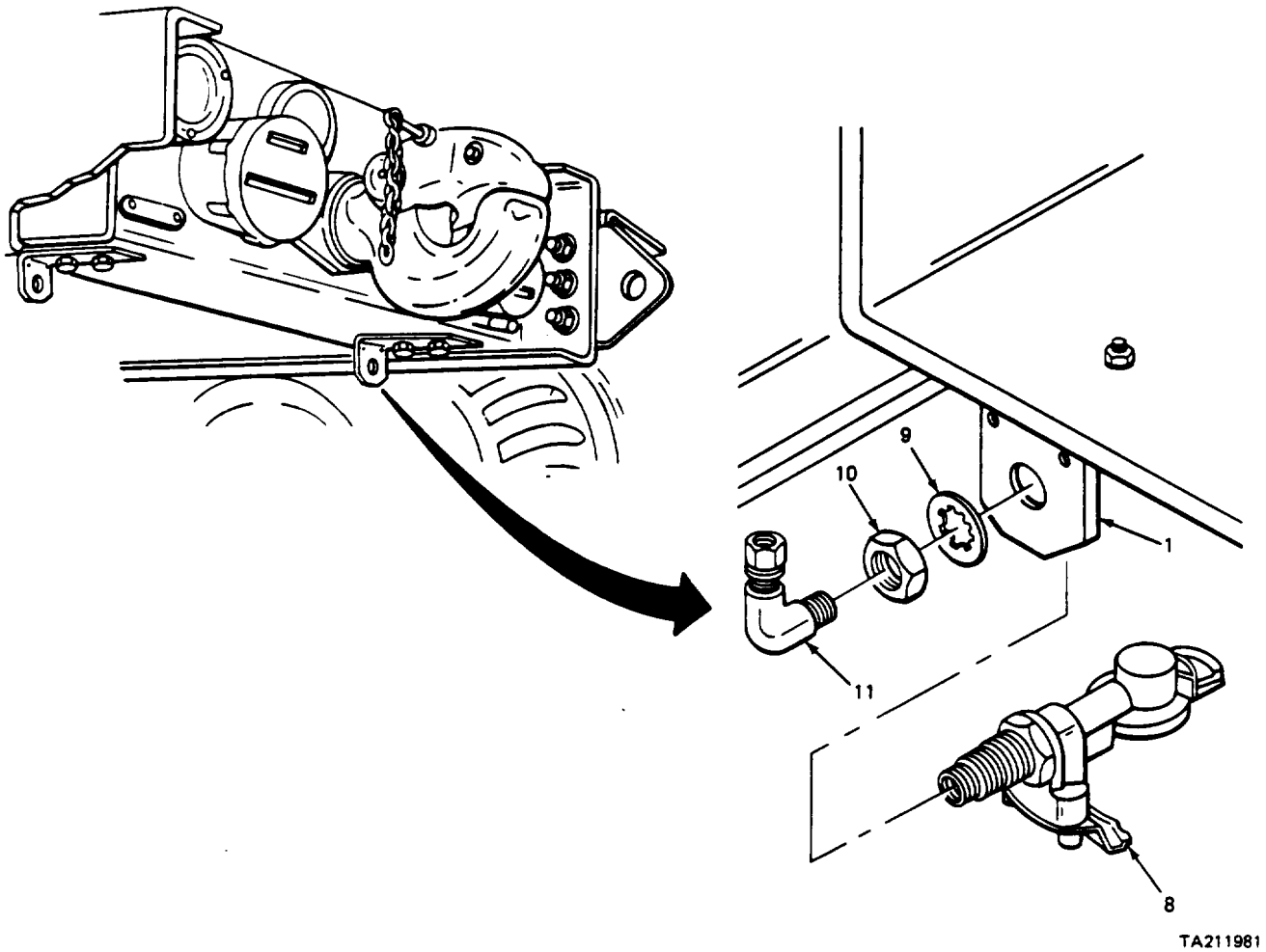


Figure 10. Installing rear gladhand assemblies

v. Position gladhand assembly (1) in bracket (2) with the opening facing to the right as viewed from the front of the M911 Truck Tractor.

w. Secure gladhand assembly (1) with lockwasher (3) and nut (4).

x. Install elbow (5) (Table 2, item 34) in the gladhand assembly (1) with elbow (5) facing downward.

y. Perform steps v through x on the right side of the M911 Truck Tractor.

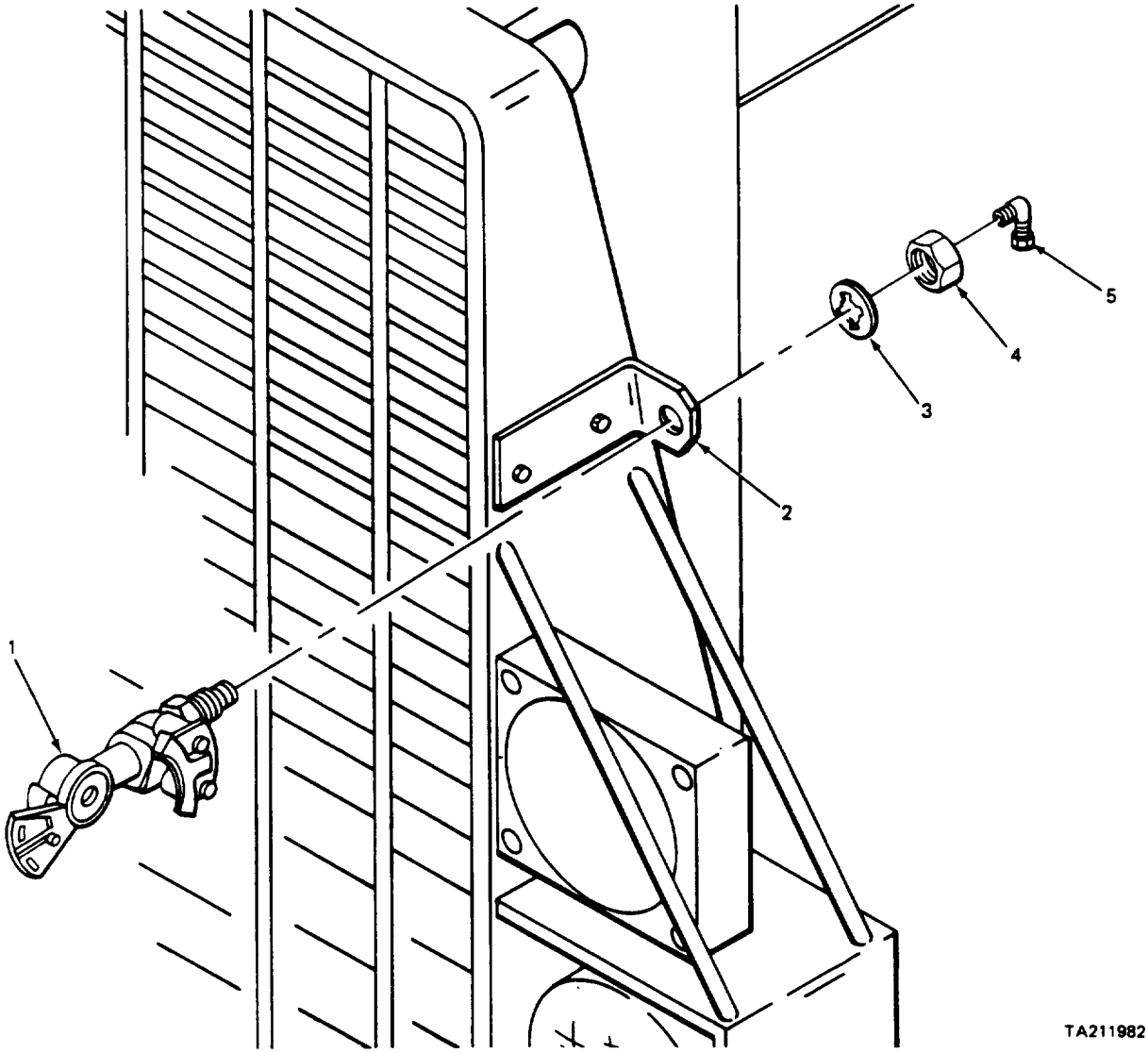


Figure 11. Installing front gladhand assemblies

NOTE

Installation of the plastic tubes (6) for left and right glad-hands are identical. Left side shown.

z. Slide protective coil (8) (Table 2, Item 15) approximately two feet (0.61 mm) over one end of plastic tube (6) (Table 2, Item 12).

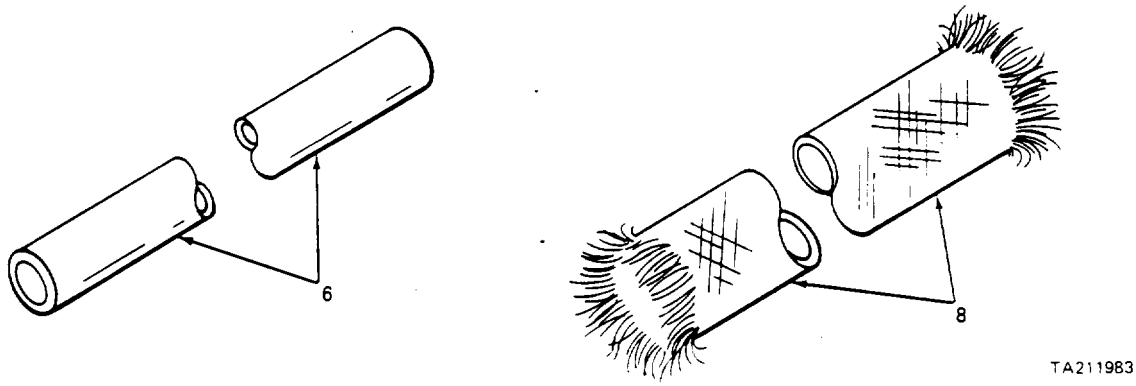


Figure 12. Installing protective coil on plastic coil on plastic tube

aa. Remove nut (9) and sleeve (10) from elbow (11).

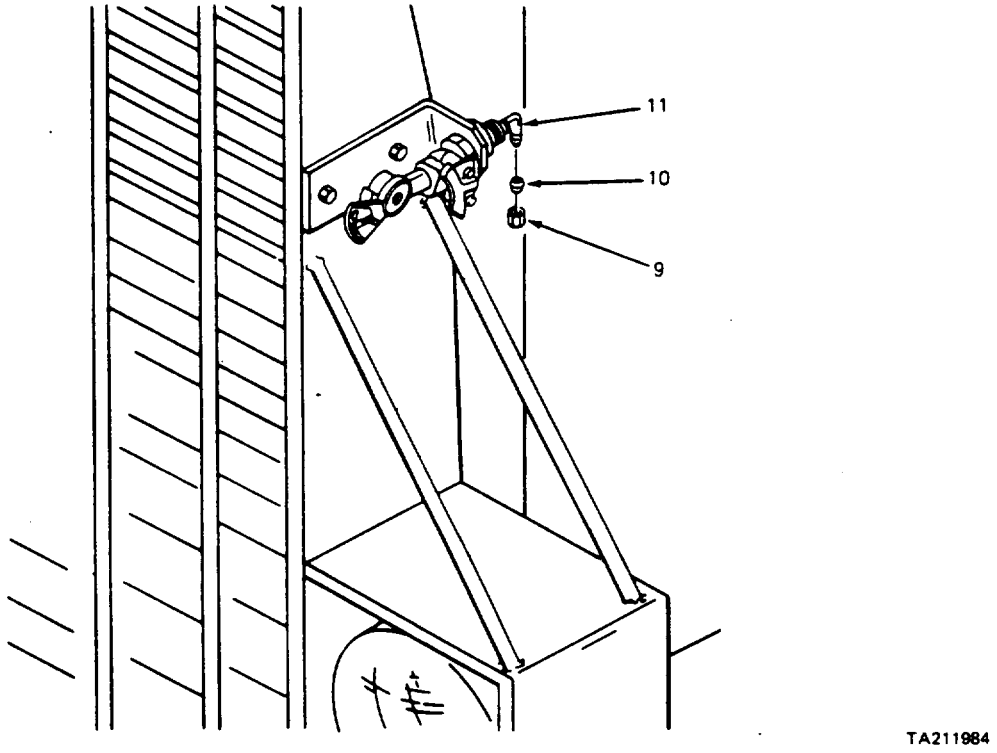


Figure 13. Removing nut and sleeve from front elbow

ab. Slide nut (1) onto plastic tube (2).

ac. Slide sleeve (3) onto plastic tube (2).

ad. Push plastic tube (2) into elbow (4) as far as possible.

ae. Secure plastic tube (2) to elbow (4) with nut (1).

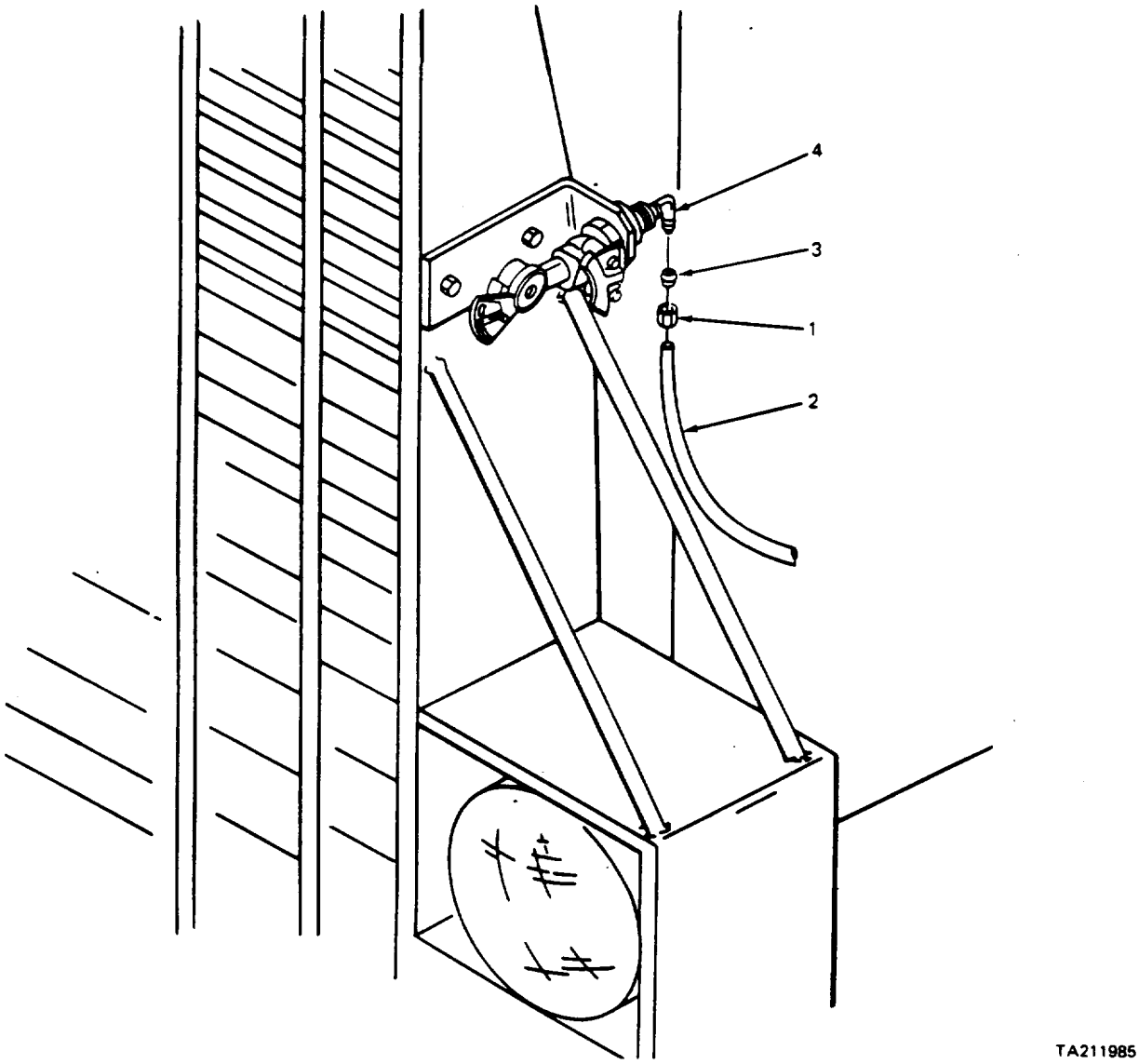


Figure 14. Connecting plastic tubes to front gladhands

af. Slide protective coil (5) up plastic tube (2) until it is 8 inches (20.3 mm) from nut (1).

ag. Tape the ends of the protective coil (5) to plastic tube (2).

ah. Place cushioned clip (6) (Table 2, Item 20) over plastic tube (2).

ai. Secure cushioned clip (6) to side of grill guard (7) with capscrew (8) (Table 2, Item 9), lockwasher (9) (Table 2, Item 6) and nut (10) (Table 2, Item 36).

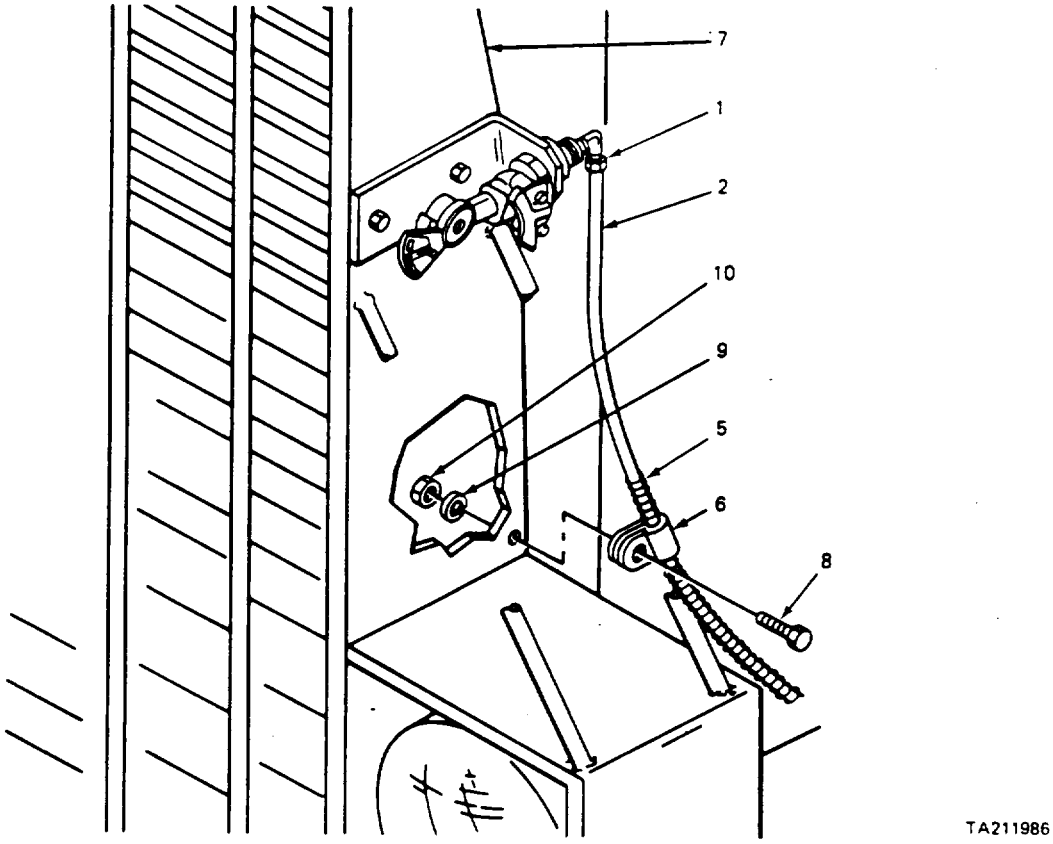


Figure 15. Securing front tube with clip

aj. Remove existing screw (1), lockwasher (2), and flat washer (3) from bottom of drill guard (4).

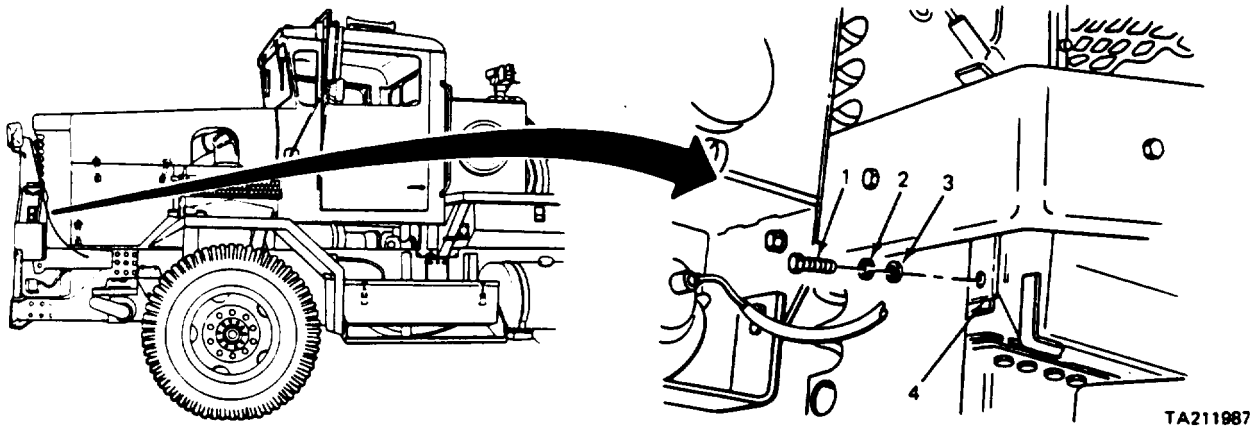


Figure 16. Removing screw from grill guard

ak. Place cushion clip (5) on tube (6).

al. Secure cushion clip (5) to grill guard (4) with screw (1), lockwasher (2), and flatwasher (3).

am. Perform steps z through al on right side of M911 Truck Tractor using 300 in (762.0 cm) plastic tube (Table 2, item 13).

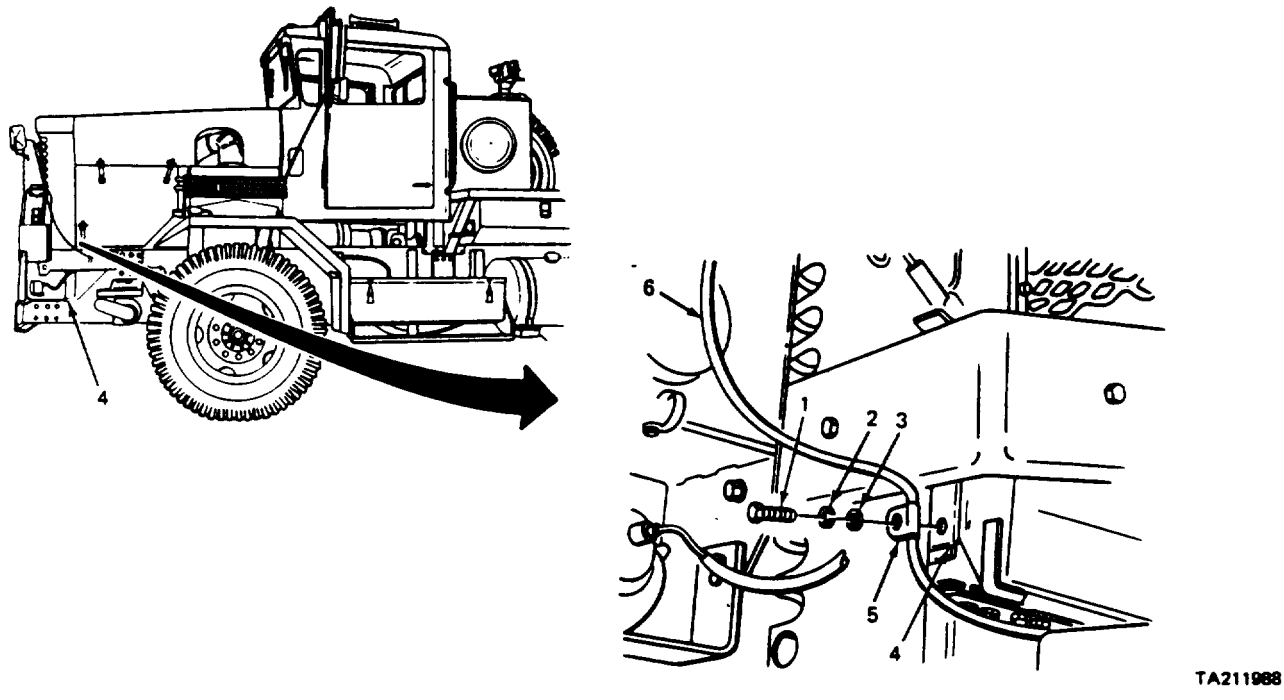


Figure 17. Securing tube to bottom of grill guard

an. Route the tube (6), into existing hose wire harness along inside of left frame rail (7) back to front of air reservoir (8).

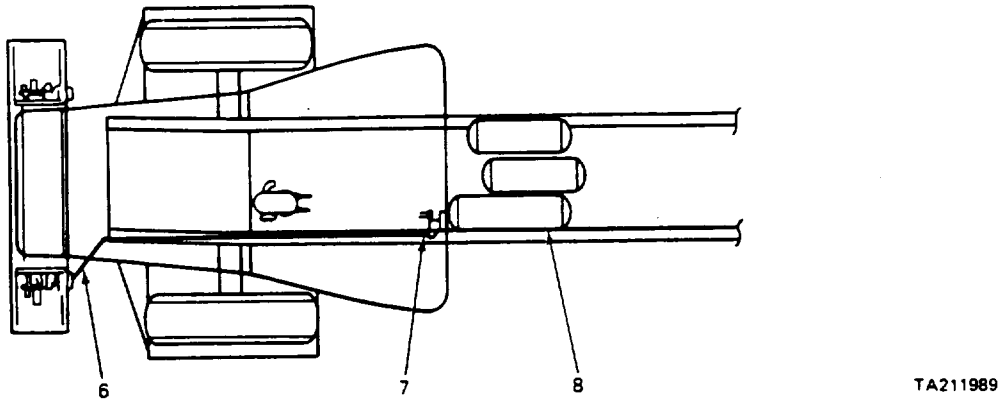


Figure 18. Routing left front tube to air reservoir

ao. Remove existing tube (9) from adapter (10).

ap. Remove adapter (10) from air reservoir (8).

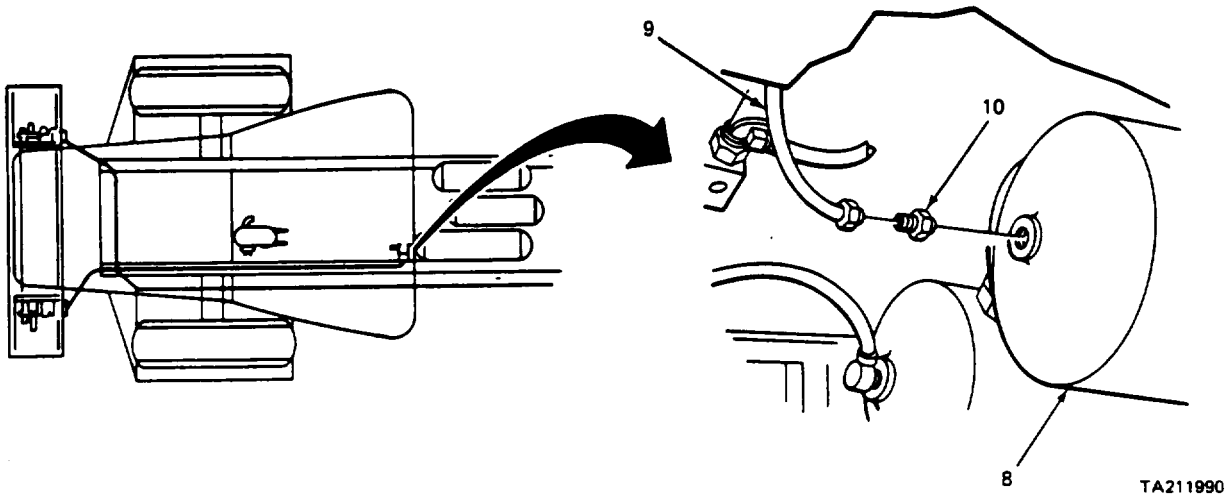


Figure 19. Removing adapter from air reservoir

aq. Install close nipple (1) (Table 2, Item 23) into air reservoir (2).

ar. Screw tee (3) (Table 2, Item 22) onto close nipple (1), with odd port facing up.

as. Install adapter (4) into tee (3).

at. Install previously removed tube nut (5) onto adapter (4).

au. Screw reducing bushing (6) (Table 2, Item 24) into odd port of tee (3).

av. Install check valve (7) (Table 2, Item 21) into reducer (6).

aw. Install elbow (8) (Table 2, Item 8) into check valve (7).

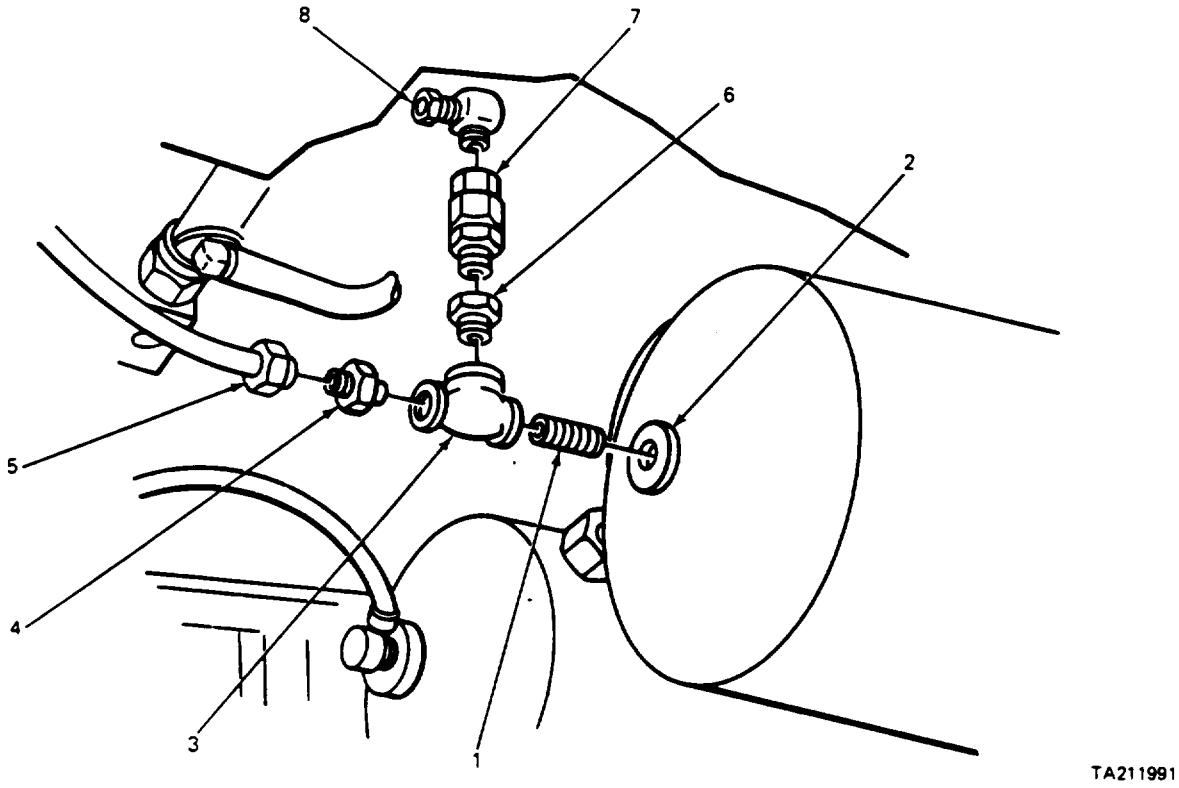


Figure 20. Installing tee and check valve on air reservoir

ax. Remove nut (9) and sleeve (10) from elbow (8).

ay. Slide nut (9) and sleeve (10) one foot onto tube (11).

az. Push tube (11) into elbow (8) as far as possible.

ba. Slide sleeve (10) against elbow (8).

bb. Secure tube (11) to elbow (8) with nut (9).

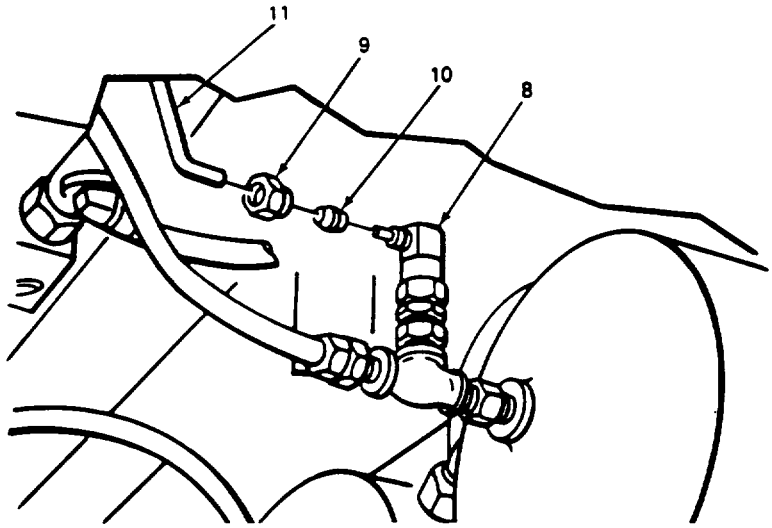


Figure 21. Installing left front tube on air reservoir

bc. Mount quick release valve (12) (Table 2, Item 3) onto bracket (13) (Table 2, Item 26), with two capscrews (14) (Table 2, Item 9), lockwashers (15) (Table 2, Item 6), and nut (7) (Table 2, Item 35).

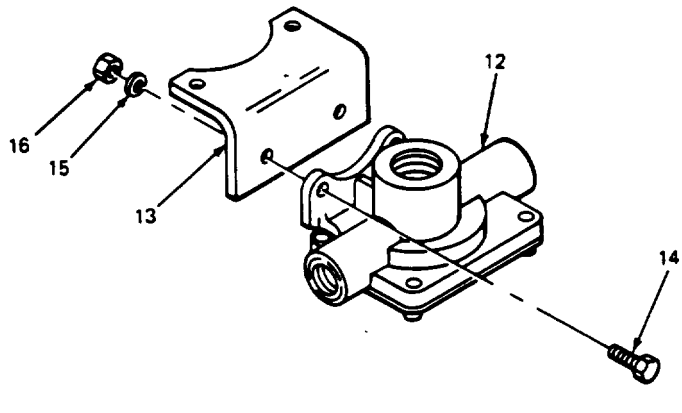


Figure 22. Mounting quick release valve on bracket

bd. Remove two capscrews (1), washers (2) and nuts (3) from tractor-to-trailer electrical socket (4). Discard capscrews (1).

be. Secure quick release valve (5) and bracket (6) to tractor-to-trailer electrical socket (4) using two new capscrews (1) (Table 2, Item 37), lockwashers (3), and nut (2).

bf. Install reducer (7) (Table 2, Item 25) in quick release valve (5) on side toward center of truck.

bg. Install stoplight switch (8) (Table 2, Item 4) in reducer (7).

bh. Remove two nuts (9) and lockwashers (10) from stoplight switch (8).

bi. Attach one lead of wire harness (11) (Table 2, Item 10) to each terminal (12) of stoplight switch (8), with lockwasher (10) and nut (9).

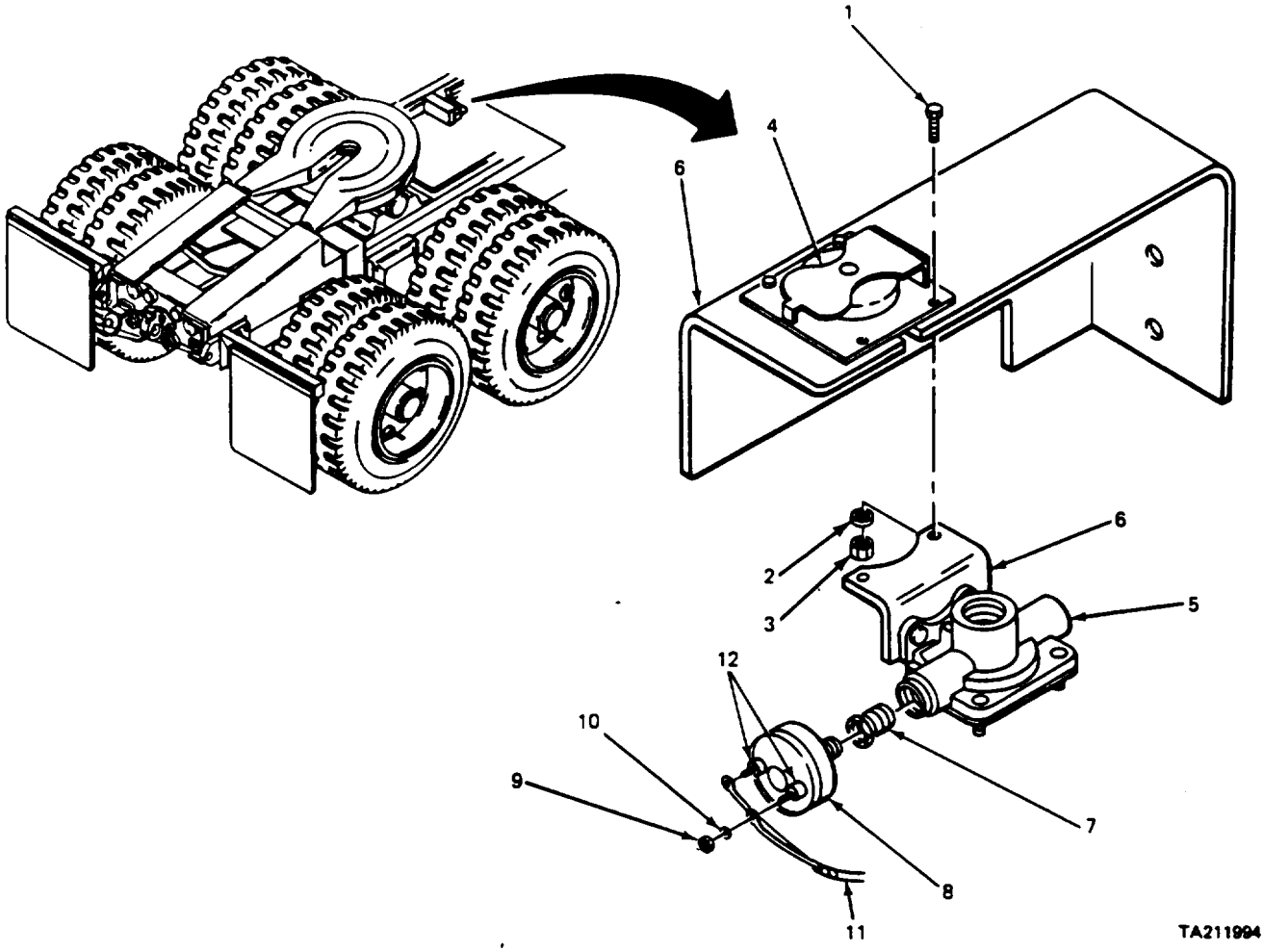


Figure 23. Installing quick release valve and stoplight switch

bj. Route wire harness (11) forward along existing hose/wire harness (13) beside left frame rail (14) to brake treadle valve (15) under cab.

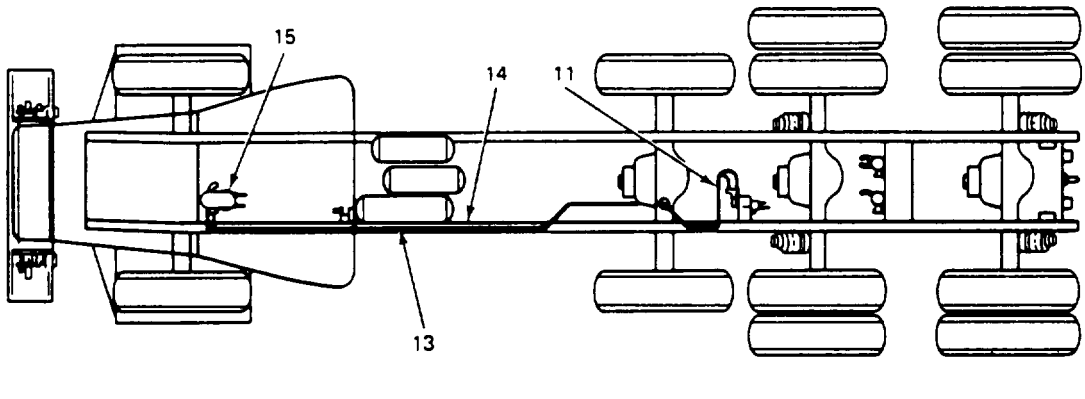


Figure 24. Routing stoplight switch wire harness

bk. Remove two nuts (16) and lockwashers (17) from treadle valve stop light switch terminals (18).

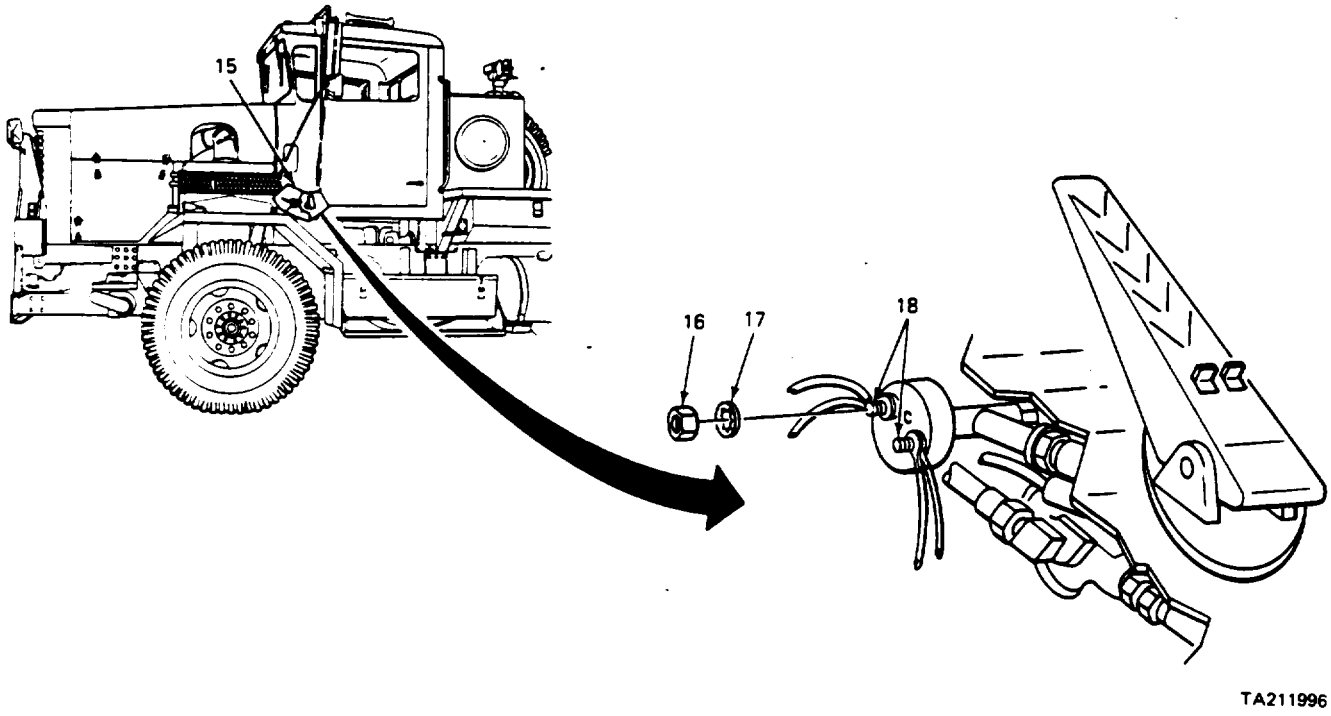


Figure 25. Removing two nuts from treadle valve stoplight switch

NOTE

Brown wire lug (1) goes with wire number 9 on terminal (3).

bl. Place lug (1) brown wire) of wire harness (2) on terminal (3).

bm. Place lug (4) of wire harness (2) on terminal (5).

bn. Secure lugs (1) and (4) with lockwashers (6) and nuts (7).

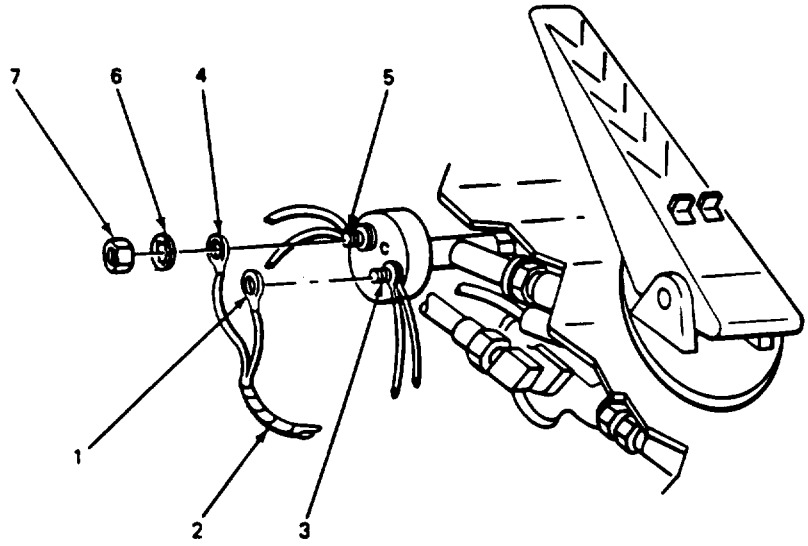


Figure 26. Installing wire harness on treadle valve stoplight switch

bo. Route plastic tube (8) over heat exchanger (9) along existing hose/wire harness on left frame rail (10) to quick release valve (11).

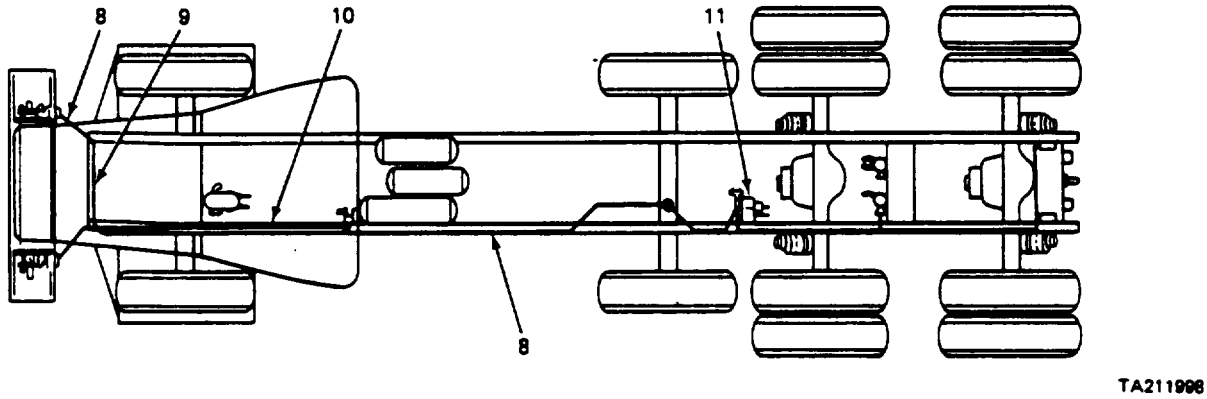


Figure 27. Routing right front tube

bp. Install elbow (12) (Table 2, Item 27) into top hole (13) of quick release valve (11) pointed as shown.

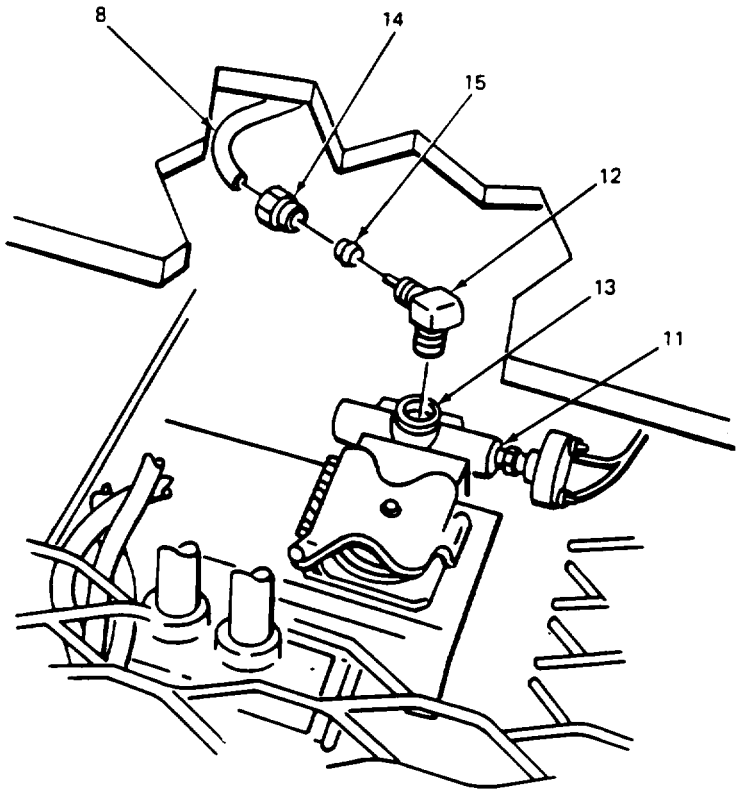
bq. Remove nut (14) and sleeve (15) from elbow (12).

br. Slide nut (14) and sleeve (15) about two feet onto plastic tube (8).

bs. Push end of front service tube" (8) into elbow (12) as far as possible.

bt. Slide sleeve (15) against elbow (12).

bu. Secure plastic tube (8) with nut (14).



TA211999

Figure 28. Connecting right front tube to quick release valve

bw. Install elbow (1) (Table 2, Item 16) on quick release valve (2).

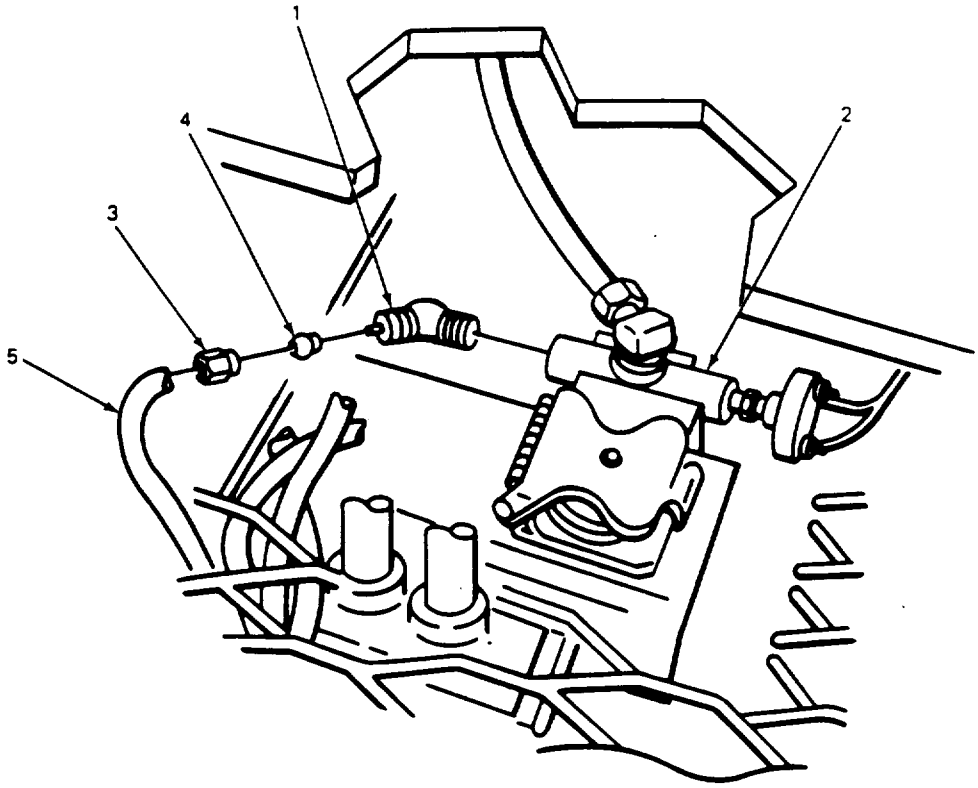
bx. Remove nut (3) and sleeve (4).

by. Slide nut (3) and sleeve (4) about two inches onto tube (5) (Table 2, Item 14).

bz. Push the end of tube (5) into elbow (1) as far as possible.

ca. Slide sleeve (4) against elbow (1).

cb. Secure tube (5) to elbow (1) with nut (3).



TA212000

Figure 29. Connecting relay tube to quick release valve

cc. Route plastic tube (5) from quick release valve (2) rearward along inside of left frame rail (6) to left service brake relay valve (7).

cd. Remove screw (8) and cover (9) from left service brake relay valve (7).

ce. Discard screw (8) and cover (9).

cf. Install elbow (10) (Table 2, Item 16) into left service brake relay valve (7) with elbow facing front of truck.

cg. Remove nut (11) and sleeve (12) from elbow (10).

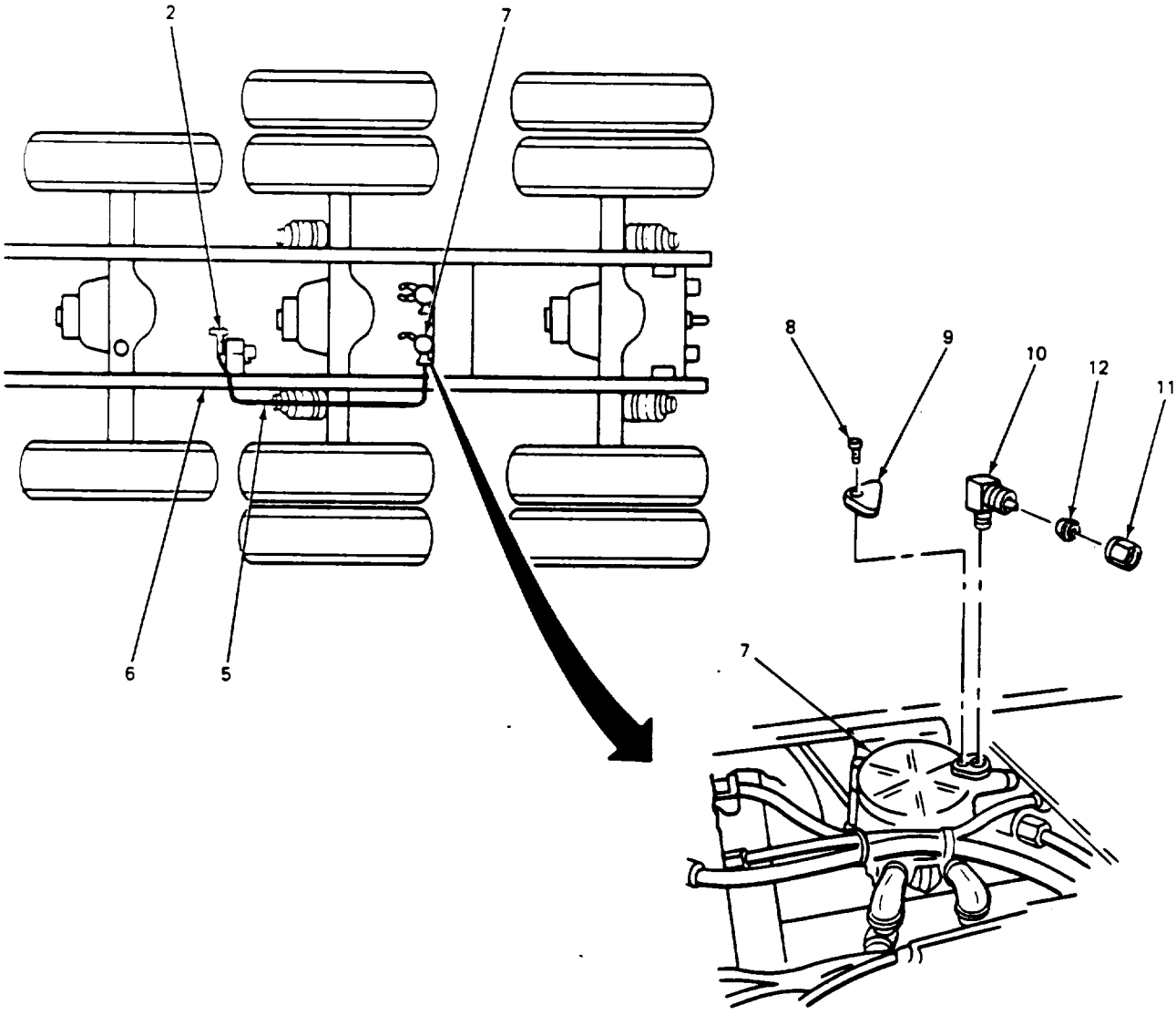


Figure 30. Routing relay tube

ch. Slide nut (1) and sleeve (2) onto plastic tube (3) about two inches.

ci. Push plastic tube (3) into elbow (4) as far as possible.

ck. Push sleeve (2) against elbow (4).

cl. Secure plastic tube (3) to elbow (4) with nut (1).

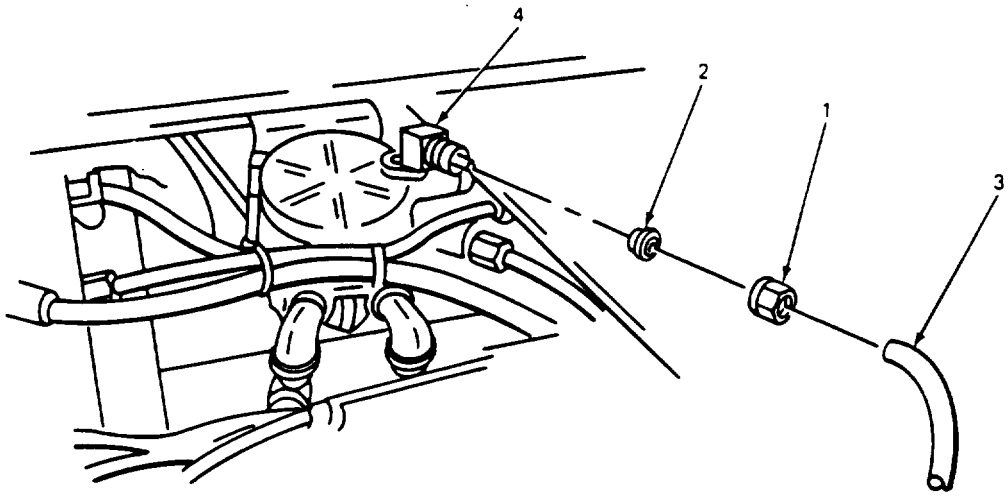


Figure 31. Connecting relay tube to relay

cm. Disconnect service and emergency air hoses (5) from adapters (6).

cn. Remove adapters (6) from tractor protection valve (7).

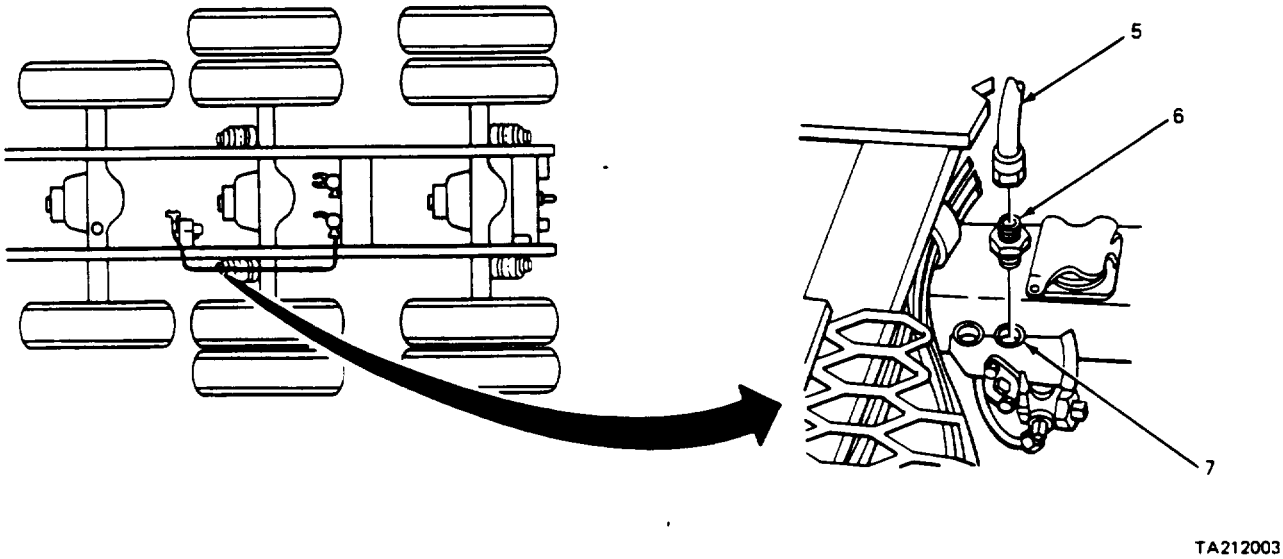


Figure 32. Removing adapters from tractor protection valve

co. Install two reducer bushings (8) (Table 2, Item 28) into tractor protection valve ports (9).

cp. Install two close nipples (10) (Table 2, Item 29) into reducer fittings (8).

cq. Install two tees (11) (Table 2, Item 30) onto close nipples (10) with center port of tee (11) facing toward rear of truck.

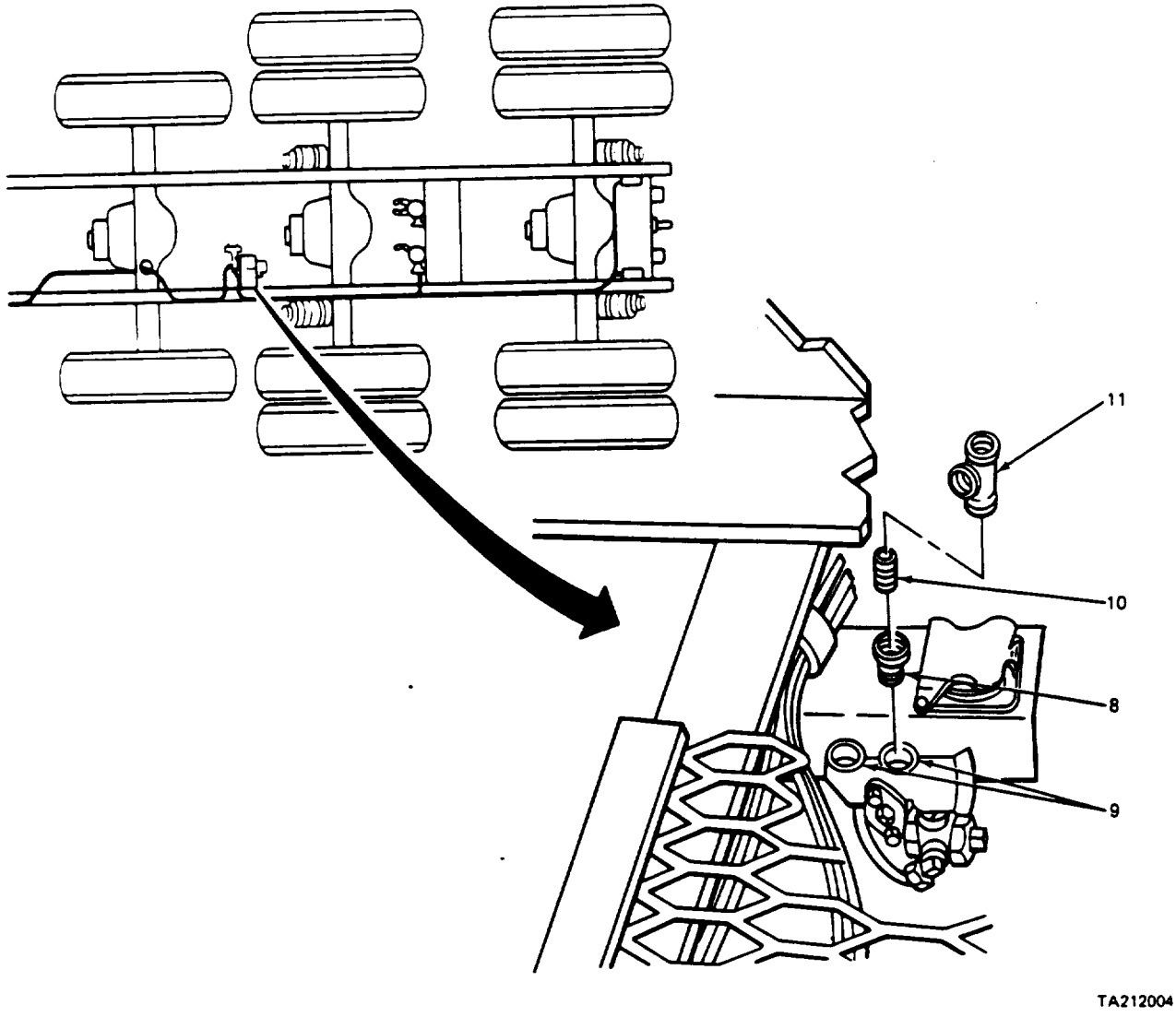


Figure 33. Installing tees on tractor protection valve

cr. Remove nuts (1), sleeves (2), and inserts (3) from two adapter fittings (4) (Table 2, Item 31). Discard nuts (1), sleeves (2), and inserts (3).

Figure 34. Removing nuts, sleeves, and inserts from adapter fittings

cs. Install two adapter fittings (4) into tees (5).

ct. Connect blue service air hose (6) to adapter fitting (4) on right side of tractor protection valve (7).

cu. Connect red emergency air hose (8) to adapter fitting (4) on left side of tractor protection valve (7).

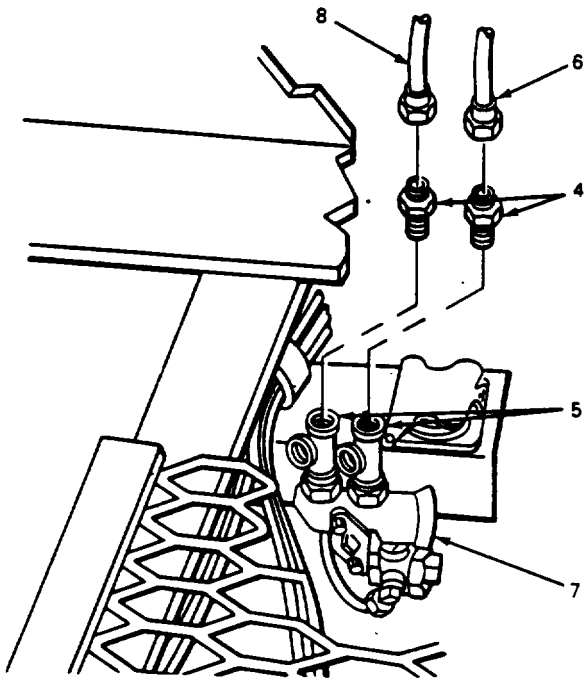


Figure 35. Installing trailer coupling hoses on tees

cv. Install two adapters (9) (Table 2, Item 34) in open ports of tees (5).

cw. Remove two nuts (10) and sleeves (11) from adapter (9).

cx. Slide nuts (10) and sleeves (11) onto plastic tubes (19) (Table 2, Items 32 and 12) about two inches.

NOTE

The 105 inch (266.7 cm) long plastic tube goes to the left side of the protection valve and the 140 inch (355.6 cm) goes to the right side.

cy. Push the ends of plastic tubes (12) into adapters (9) as far as possible.

cz. Slide sleeves (11) against adapter (9) and secure plastic tubes (12) to adapters (9) with nuts (10).

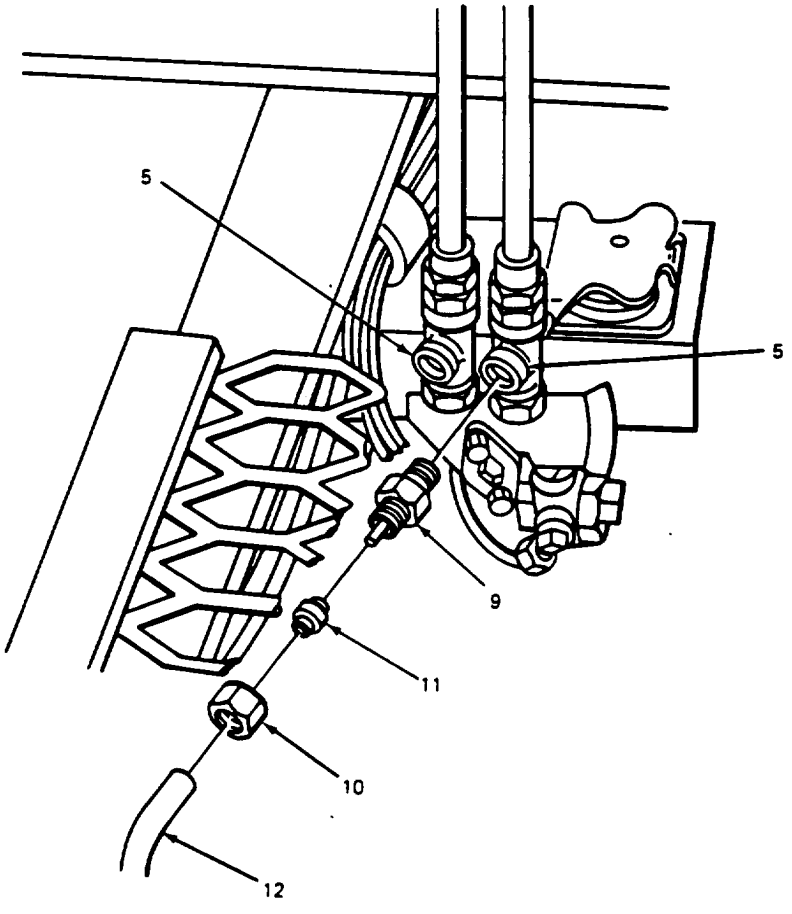


Figure 36. Installing tubes on tractor protection valve

da. Route two plastic tubes (1) into existing wiring harness (2) inside left frame rail (3) and back to the rear crossmember (4).

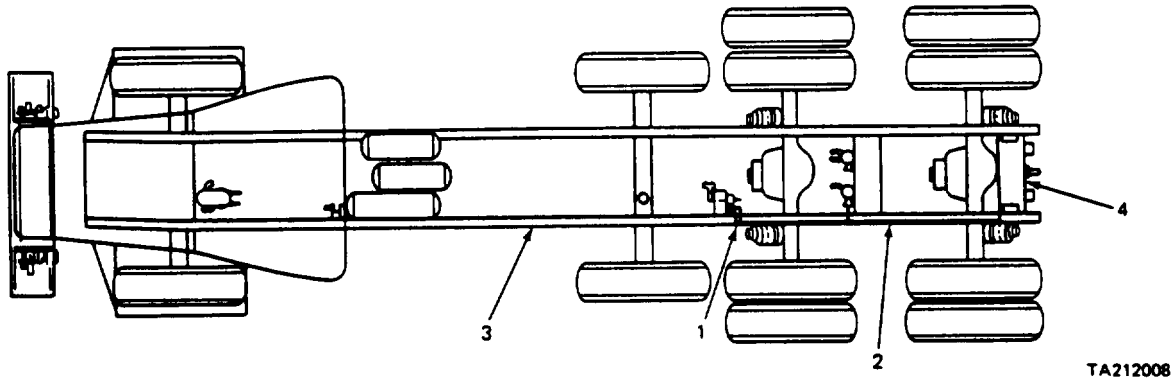


Figure 37. Routing of tubes to rear gladhands

db. Install two elbows (5) (Table 2, Item 33) into rear gladhand fittings (6).

dc. Remove two nuts (7) and sleeves (8) from elbows (5).

dd. Slide nuts (7) and sleeves (8) onto plastic tube (1) about two inches.

de. Push end of plastic tube (1) into elbows (5) as far as possible.

df. Push sleeves (8) against elbows (5) and secure plastic tubes (1) to elbows (5), (Figure 38).

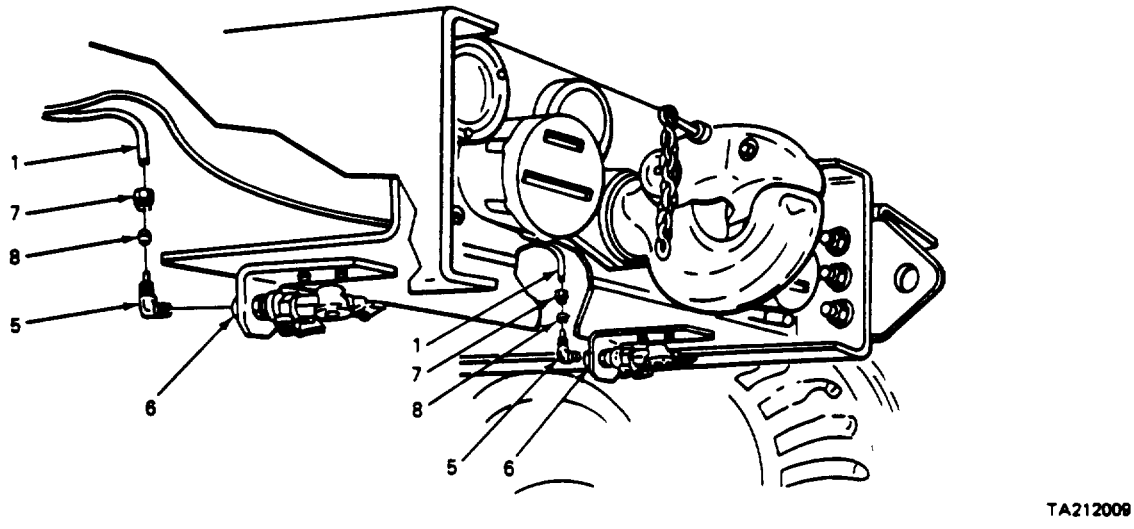
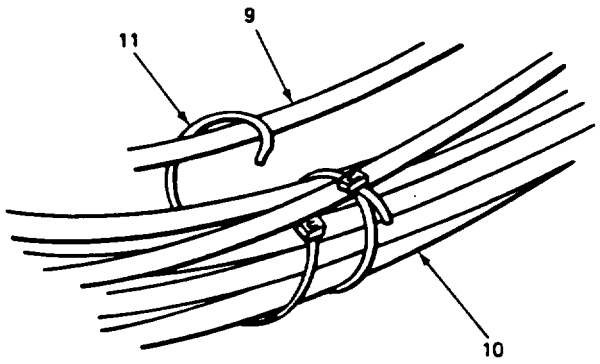


Figure 38. Installing tubes to rear gladhands

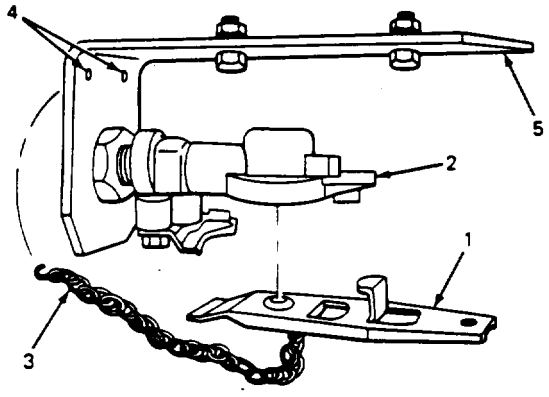
dg. Secure all new tubes and wires (9) to existing harnesses (10) with eighteen nylon ties (11) (Table 2, Item 19) as needed. Make sure no hose is kinked or in a place that may chafe it.



TA212010

Figure 39. Securing new air tubes

dh. Install two couplings (1) (Table 2, Item 5) on rear gladhands (2) and secure chains (3) to inside hole (4) in brackets (5).



TA212011

Figure 40. Installing rear couplings

di. Install couplings (6) (Table 2, Item 5) on left front gladhand (7) and secure chain (8) to bottom hole (9) in bracket (10).

WARNING

Dummy coupling (11) (Table 2, Item 36) has a hole in it to vent the service brake air system. Failure to install it on the right front of the M911 Truck Tractor may cause serious injury or death.

dj. Install dummy coupling (11) (Table 2, Item 36) on right front gladhand (12) and secure chain (13) to bottom hole (14) in bracket (15).

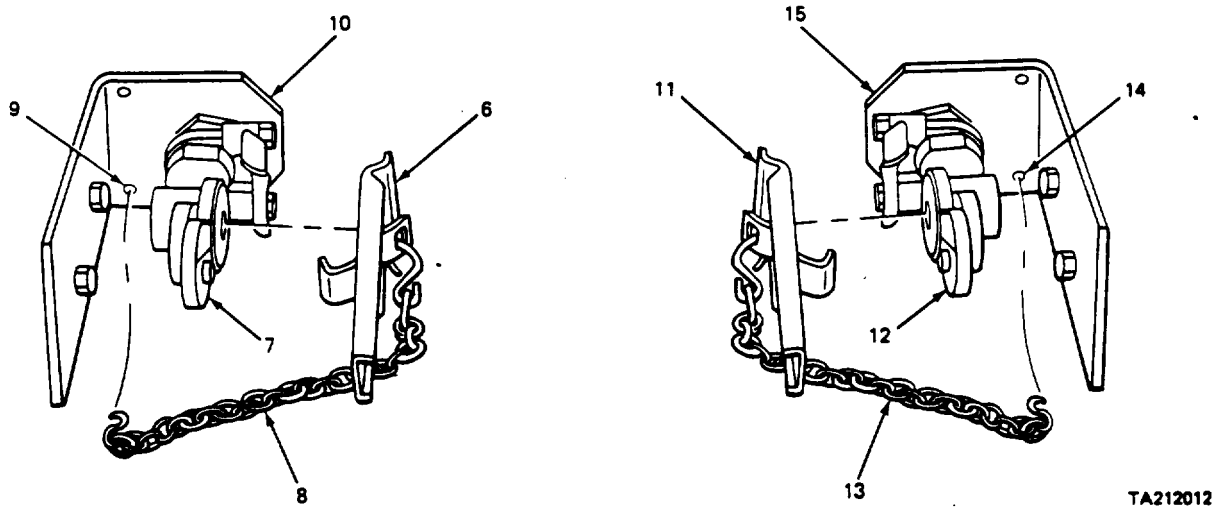


Figure 41. Installing front couplings

dk. Install two emergency gladhands (16) (Table 2, Item 1) on hose (17) (Table 2, Item 17).

dl. Install two service gladhands (18) (Table 2, Item 2) on hose (19) (Table 2, Item 17).

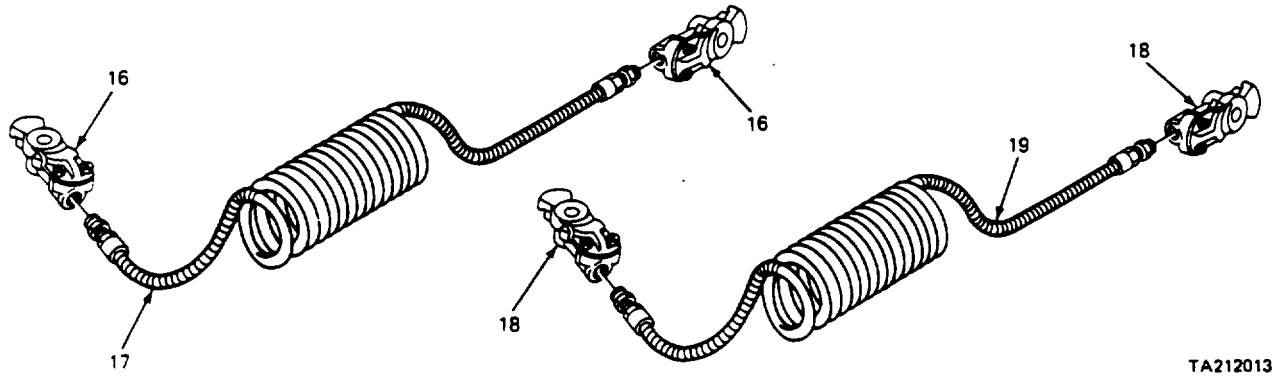


Figure 42. Installing gladhands on hoses

dm. Start the engine per TM 9-2320-270-10.

dn. Push in the trailer air supply control (20).

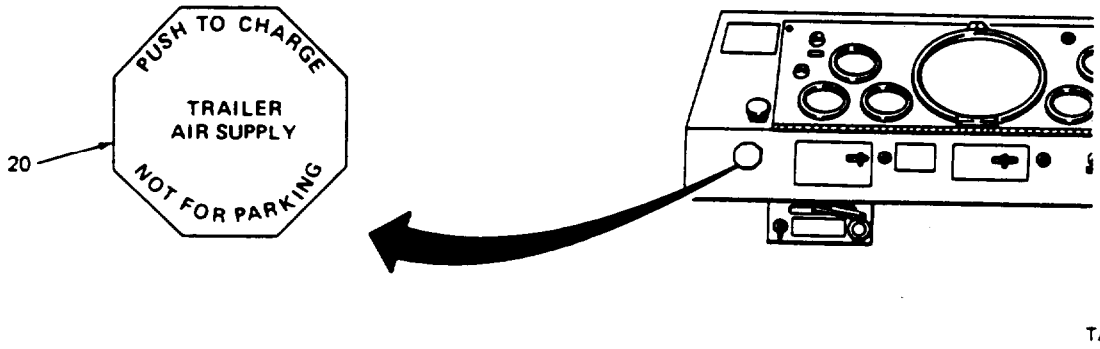


Figure 43. Trailer supply valve location

do. Apply soap solution on all new fittings and hose connections.

dp. If air is leaking from any fitting or hose connection, turn the engine off, drain air system, tighten loose fittings or hose connections and repeat steps dm through do.

OPERATIONAL CHECK

dq. Hook up tow bar (1) to the rear of the towing truck (2), and to the front of the truck (3) to be towed.

dr. Hook one end of the red hose assembly (4) to gladhand (5) and the other end to gladhand (6).

ds. Hook one end of the blue hose assembly (7) to gladhand (8) and the other end to gladhand (9).

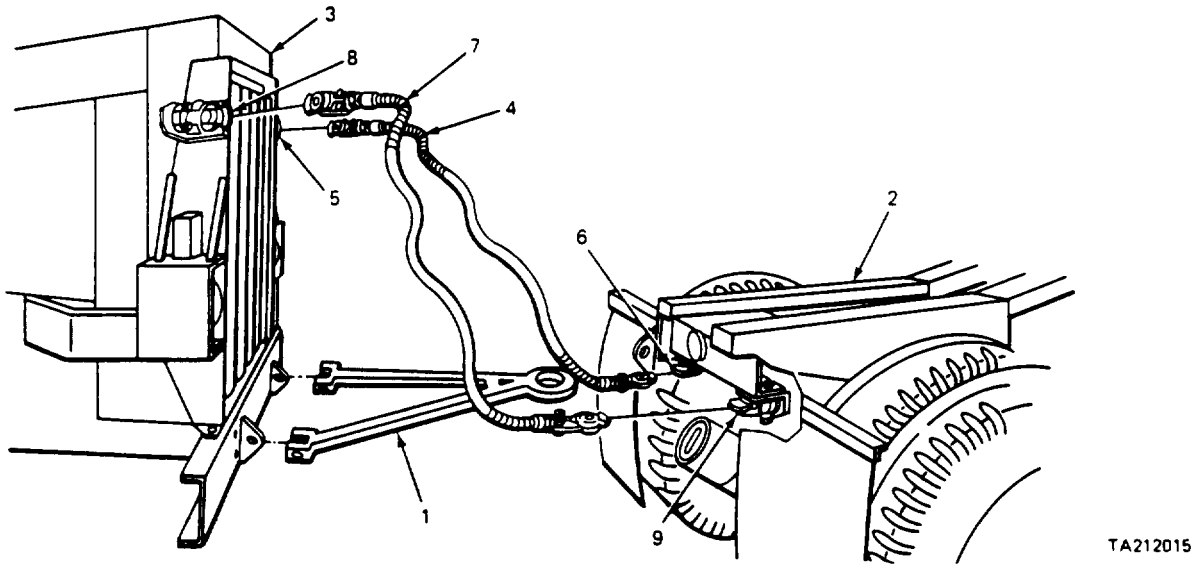


Figure 44. Connecting trucks for towing

dt. Start the engine of the truck that will be towing the other per TM 9-2320-270-10.

du. Push in trailer air supply control (10) to charge the air system of the truck being towed and check all lines and connections for leaks. If any leaks are found, tighten the connections and continue with next step.

dv. Release the parking brake control (11) of the truck being towed.

dw. Release the parking brake control (11) of the truck doing the towing.

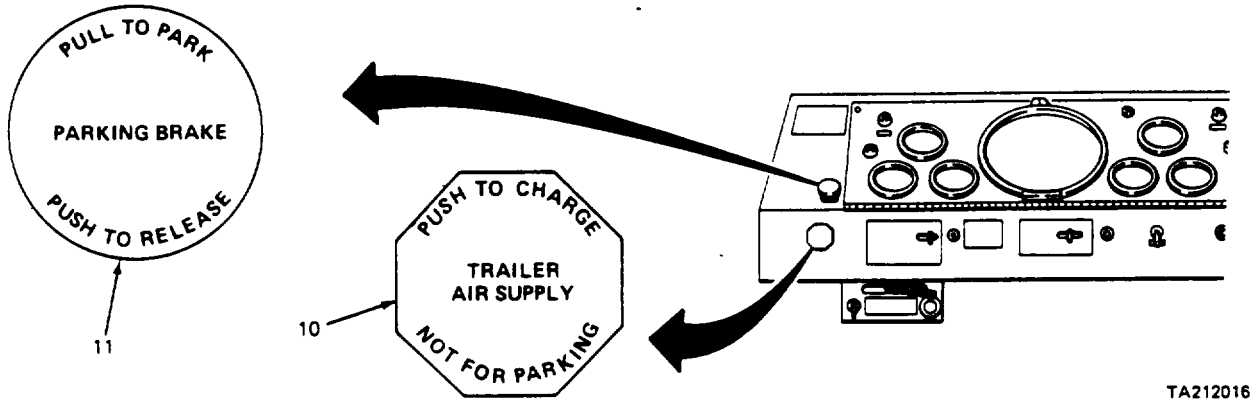


Figure 45. Parking and trailer supply valve location

dx. Apply the service brakes of the towing truck and have assistant check operation of rear truck stoplights.

dy. Put the towing truck in motion, apply service brakes, and check operation of the rear truck.

NOTE

If either stoplights or brakes do not operate, recheck hose and wire connections. If still not operating properly, perform troubleshooting procedures in TM 9-2320-270-34.

END OF PROCEDURE

12. CALIBRATION REQUIREMENTS. Not Applicable.

13. WEIGHT AND BALANCE DATA.

Weight and balance are not significantly affected.

14. QUALITY ASSURANCE REQUIREMENTS.

Perform the following to test operation of the system:

a. On the vehicle to be towed, disconnect the front and rear shafts.

b. Connect the towing vehicle to the towed vehicle using the appropriate tow bar. Connect the gladhands on the towing vehicle to those on the towed vehicle using the interconnecting hoses provided with the kit.

WARNING

DO NOT CORSS HOSES. Service gladhand assembly (blue) goes on the right side of M911 truck tractor, emergency gladhand assembly (red) goes on the left.

c. Build up the air system pressure to 90 psi (620.44 Kpa) and check to see if the failsafe parking brakes are released on the towed vehicle. Do this by pulling and seeing if the rear tires roll or skid.

d. Next drive the combination at 20 mph (32.18 kph) and apply the brakes to bring it to a stop (Federal regulations require that the combination stop within 90 feet (27.45 m) at a speed of 20 mph (32.18 kph). Perform this test no less than five times to check consistency, compatibility; etc.

e. With the vehicle standing still and the transmission in park, speed up engine to 1200 rpm. Apply brakes in rapid succession, then fully. Check to see if you have 70 psi or more on the air gage

f. Check for proper operation of the brake lights on the towed vehicle.

15. RECORDING AND REPORTING THE MODIFICATION.

a. Records and Reports Forms.

(1) DA Form 2409. Record the modification on DA Form 2409, Equipment Maintenance Log (Consolidated). See Appendix A for an example of DA Form 2409.

(2) Completion of DA Form 2407, Maintenance Request (Figure 1). The serial number to be reported in Block 2 must be in the serial range stated in paragraph 3 of the MWO. The NSN for components, assemblies, and subassemblies to be reported in Block 6 must be the same as the NSN shown in paragraphs 4 and 5. The NSN of the item actually modified will be entered in Block 20h. This NSN must match the NSN shown in Block 6. The UIC to be reported in Block 1c must be the six character code that is put on the Unit/Organization shown in Block 1a. (Normally, this will be the code that is put on the Unit/Organization Morning Report). List by NSN the number of kits used to accomplish this MWO using Block 20 and/or Block 35. If more space is needed, use DA Form 2407-1, Continuation Sheet. After completing the form, mail the NMP copy (Copy 2) to: Commander, US Army Tank-Automotive Command, ATTN: DRSTA-MRP, Warren, MI 48090. Mail the Control Copy (Copy 3) to: Commander, US Army Depot System Command, ATTN: DRSDS-PM, Chambersburg, PA 17201, for PAC 98 (Non-AIR Field Activities). Forward the Organizational Copy (Copy 4) as directed by local commander. See Appendix B for an example of DA Form 2407.

(3) DA Form 2408-9. Not applicable.

b. Marking Equipment. Mark the vehicle by stamping MWO 9-2320-287-35 in a conspicuous location near the identification plate of the end item modified.

c. Identification Data. Mark the vehicle with the following: Tow Kit, P/N 126306-RU (45152), NSN 2540-01-118-2901 and MWO 9-2320-287-35.

16. PRODUCT IMPROVEMENT PROPOSAL (PIP) NUMBER

Authority for this MWO is PIP 1-81-06-3085.

SECTION A - GENERAL

1. STOCK NUMBER	2. MODEL NUMBER	3. SERIAL NUMBER	4. LOCATION	5. FREQUENCY OF MAINT INSPECTION
2540-01-118-2901	M911		APO 96317 SF	

6. NOMENCLATURE	7. EXPECTED USEFUL LIFE (In years)	8. EXPECTED DATE OF RETIREMENT
TRUCK TRACTOR (C-HET)		UNK

9. TECHNICAL REFERENCES	10. MANUFACTURER	11. DATE PUT IN SVC	12. UNIT COST
MWO 9-2320-287-35		UNK	

SECTION B - MAINTENANCE INSPECTION RECORD

DATE a	INITIAL b	REMARKS c	DATE a	INITIAL b	REMARKS c

SAMPLE

DA FORM 2409, 1 APR 62

EQUIPMENT MAINTENANCE LOG (Consolidated) (TM 38-750)

SECTION C - REPAIR AND COST RECORD

DATE a	WORK ORDER NO. b	NATURE OF REPAIR c	MAN-HOURS d	COST PARTS e	COST LABOR f	COST TOTAL g

Indicates Date, DATA was Transcribed from the previous Form

SAMPLE

SECTION D - MODIFICATION RECORD

MODIFICATIONS REQUIRED					MODIFICATIONS COMPLETE			
MWO NO. a	DATE OF MWO (Day - Month - Year) b	PRIORITY c	ECH d	MWO TITLE OR KIT NUMBER(S) e	DATE MWO APPLIED (Day - Month - Year) f	MAN-HOURS g	ORGANIZATION APPLYING MWO h	SIGNATURE (Certification of MWO Application) i
9-2320-287-35	1 Sep 82			P/N 126306- RU	5 June 1982	3	HQ & HQ Co 1st Armor	

MAINTENANCE REQUEST
For use of this form, see TM 38-750; the proponent agency is DCSLOG.

PAGE NO.	NO. OF PAGES	REQUIREMENT CONTROL SYMBOL
1	1	CSGLD-1047(R1)

SECTION I – EQUIPMENT DATA

CONTROL NUMBER	WORK ORDER NUMBER	WESDC	ORG PD	PD AUTHENTICATION

WORK REQUEST / MWO / WARRANTY CLAIM	1a. ORGANIZATION	b. LOCATION	c. UNIT IDENT CODE
MWO	172nd ORD DET	APO NY 09086	WKF48T

2. SERIAL NO.	3. NOUN NOMENCLATURE	4. LINE NO.	5. MODEL	6. NATIONAL STOCK NUMBER
30211	TRACTOR (C-HET)		M911	2320-01-025-3733

7. MAINTENANCE ACTIVITY	a. LEVEL	b. UTILIZATION CODE	9. MCSR ITEM	c. ERC	d. PACING ITEM	10. HOURS	11. MILES	12. ROUNDS	13. STARTS
42nd OM CD O		OW							

14. FAILURE DETECTED DURING (Select one - use ✓ or X)
[ ] A Scheduled Maintenance [ ] C Test [ ] E Storage [ ] G Flight
[ ] B Handling [ ] D Normal Op [ ] F Inspection [ ] H Other

15. FIRST INDICATION OF TROUBLE (Select one - use ✓ or X)
[ ] 058 Inoperative [ ] 259 Overheating [ ] 790 Out of Adjustment
[ ] 008 Noisy [ ] 387 Low Performance [ ] Other

16. DESCRIBE DEFICIENCIES OR SYMPTOMS ON THE BASIS OF COMPLETE CHECKOUT AND DIAGNOSTIC PROCEDURE IN EQUIPMENT TM (Do not prescribe repairs)
APPLY MWO 9-2320-287-35

PIP NO- PRON: 160F344

FISCAL STATION NO 15058 MON IDENT NO. MM00079

16a. REMARKS

SECTION II – WORK ACCOMPLISHED

17a. REPAIR ORGANIZATION/ACTIVITY	c. UNIT IDENT CODE	18. TYPE ORGANIZATION/ACTIVITY AC-COMPLISHING WORK (Select one - use ✓ or X)	19. AMS ACCOUNT CODE
42nd DS CO	WK4D5C	[X] 1 TOE [ ] 2 TD [ ] 3 CONTRACTOR	
b. LOCATION: APO NY 09096			

20a. ACT CODE	FAILURE CODE b	c. COMPONENT/PART NOUN, SVC, OR MWO NO. d. CB CODE	e. REF DESIGNATOR	f. MFR CODE	MANHOURS (Hrs & tenths) g	NATIONAL STOCK NUMBER h	PART SOURCE CODE i	QTY j	PARTS COST k
H	801	9-2320-35		MIL	8.0	2320-01-025-3733			
				CIV	2.0				
				l. TOTAL MANHOURS	10.0	m. TOTAL MANHOURS COST $		n. TOTAL PARTS COST $	

SAMPLE

21. DELAY (Select one) [ ] 1 Parts [ ] 2 Manpower [ ] 3 Facilities [ ] 4 Funds [ ] 5 Tools
22. [X] DATA TRANSCRIBED

23. SUBMITTED BY	24. RECEIVED BY	25. WORK STARTED BY	26. INSPECTED BY	27. ACCEPTED BY	28. DISPOSITION (Select one)
S. Hoerter	V. Ryan	W. Smith	D. Adamson	C. Swain	[ ] A To User [ ] C Salvaged [ ] B To Stock [ ] D Evacuated [ ] E Cannibalization
JULIAN DATE 9095	JULIAN DATE 9095	JULIAN DATE 9099	JULIAN DATE 9102	JULIAN DATE 9103	

DA FORM MAY 81 2407 EDITION OF JUL 79 IS OBSOLETE. FILE COPY 5

By Order of the Secretary of the Army:

E.C. MEYER
General, United States Army
Chief of Staff

Official:

ROBERT M. JOYCE
Major General, United States Army
The Adjutant General

Distribution:

To be distributed in accordance with DA Form 12-38, MWO requirements for Truck, Tractor, Heavy Equipment Transporter 8x6 (C-HET) M911.

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