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TRUCK 4 TONNE 4x4 BEDFORD MJ (ALL VARIANTS)

MODIFICATION INSTRUCTIONS

BY COMMAND OF THE DEFENCE COUNCIL

Sponsor:

Ministry of Defence

Publications Authority:
Vehs & Wpns Br REME
Project No: 71511 (47)
File ref: 30901/31

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AMENDMENT RECORD

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PREFACE

1 The controlling publication authority for this sub-category is:

Vehicles and weapons Branch REME
Chobham Lane
Chertsey Surrey KT16 0EE

2 All modification instructions as issued are to be recorded on the modification instruction index provided. Amendments to individual modification instructions are to be recorded on the Instruction Amendment Record. All extant instructions and amendments can be found listed in the main AESP Index.

3 Amendments are identified by marginal side linings.

4 Comments on Instructions are to be forwarded to the appropriate Publication Authority in accordance with AESP 0100-P-011-013.

MODIFICATION INSTRUCTION INDEX

This index is to be kept up to date by the User entering modification instructions as and when they are published.

Priority (Pty) is shown as Army: Immediate: I Routine: R
RAF: Class 1, 2 or 3

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TRUCK CARGO 4 TONNE 4X4 BEDFORD MJ (ALL VARIANTS)

MODIFICATION INSTRUCTION NO 1

Sponsor:
DGEME(A)
Data Centre Code: BVT7B

Publications Authority:
Vehs & Wpns Br REME
Project No: 70912 (151)
File ref: 50736/31

AMENDMENT RECORD

Amdt	Incorporated by	Date		Amdt	Incorporated by	Date
1				4		
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3				6		

SUBJECT: Fuel tank gauge shield
(MAE Approval No 12-1926)

INTRODUCTION

1 This instruction refers to the fitting of a fuel tank contents gauge glass protective shield omitted during production on a limited number of vehicles.

1.1 Limitations on use of equipment. Nil

APPLICABILITY

2 Truck, 4 Tonne 4x4 Bedford MJ Variants of the following registration numbers.

32-KA-18 to 32-KA-32 inclusive
32-KA-75, 32-KA-76, 32-KA-77
00-AY-42 to 00-AY-49 inclusive
01-AY-11, 01-AY-12, 01-AY-13,
26-KB-81 and 26-KB-82.

REASON FOR MODIFICATION

3 Code 6 - production omission

PRIORITY

4 ARMY: Routine
RAF: Class 3

ESTIMATED TIME REQUIRED

5 Embodiment: 1 man-hour

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This modification is to be implemented by:

ARMY - Units authorized to carry out levels 2, 3 and 4 maintenance.

RAF - Units not later than the next routine servicing and Vehicle Depots before issue of vehicle.

6.2 Associated modification instructions. Nil

6.3 Modification plate strike action. NA

Action required by:

7

7.1 Units and establishments holding equipment

7.1.1 Examine vehicle documents to see if modification is applicable.

7.1.2 Examine vehicle to see if modification is embodied and where necessary demand the stores required.

7.1.3 ARMY - On receipt of stores, request REME to modify equipment.

7.1.4 ARMY - Record the modification Subject, AESP number and Army Modification Code in vehicle documents.

RAF - Record modification details on RAF Form 4870 and AF G1084A.

7.2 Army units authorized to carry out levels 2, 3 and 4 maintenance, and RAF units

7.2.1 ARMY - when requested by users or during overhaul, obtain the items listed in para 8 and carry out this modification.

RAF - On receipt of stores, embody the modification.

7.2.2 Record completion details of modification against appropriate entry in vehicle documents.

7.2.3 Complete AF G1084A when reporting completion of the modification to Data Centre using the following FORWARD codes:

ARMY: EQUIPMENT CODE: See para 2
 MODIFICATION CODE: X00666

RAF: MODIFICATION CODE: AFC 219

7.3 All recipients of this instruction. Add particulars to AESP ref 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded

8.1.1 The following item is to be demanded quoting this instruction as authority for demand, and

8.1.2 Registration number of vehicle for equipment held by user units.

8.1.3 Registration number of vehicle for unmodified stock held in RAOC stores.

<u>Item</u> <u>No</u>	<u>COSA</u> <u>Section</u>	<u>NSN/Part No</u>	<u>Designation</u>	<u>Qty</u> <u>per eqpt</u>
1	7/BD	2910-99-769-3048	Shield, fuel gauge	1

8.2 Item to be modified

2	6/MT1	6680-99-824-883	Gauge unit, float type, dial reading	1
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Sequence of operations

9 Carry out the modification as follows:

Note ...

The item numbers of para 8 are used as references throughout this instruction.

9.1 Fit shield (item 1) over glass of gauge (item 2) securing with two of existing fixings.

Testing after embodiment

10 Nil.

EFFECT ON WEIGHT

11 Negligible

PUBLICATION AMENDMENTS

12 Nil

TRUCK, CARGO, 4 TONNE, 4 X 4 BEDFORD MJ (ALL VARIANTS)

MODIFICATION INSTRUCTION NO 2

Sponsor:
DGEME(A)
Data Centre Code: BVT 7B

Publications Authority
Vehs & Wpns Br REME
Project No.70912 (217)
File ref: VB50736/35

AMENDMENT RECORD

Amdt No	Incorporated by	Date	Amdt No	Incorporated by	Date
1			4		
2			5		
3			6		

SUBJECT: Winterisation
(MVEE Approval No 42074)

INTRODUCTION

1 This instruction refers to the winterisation of the vehicle to enable it to operate efficiently in arctic conditions. It introduces an additional cab heater, grill, radiator and screen blinds, insulated and heated battery box assy, rear mud flaps and cab roof hatch insulation.

1.1 Limitations on use of equipment: Nil.

APPLICABILITY

2 Truck Cargo 4 Tonne 4 x 4 Bedford MJ (all variants) from Chassis No 101794 when authorised by OR11 (Army) or MT2 (RAF).

REASON FOR MODIFICATION

3 Code 6 - to enable vehicles to operate in arctic conditions.

PRIORITY

4 ARMY: Routine) When authorised.
RAF: Class 3)

ESTIMATED TIME REQUIRED

5	Dismantling		man-hours
	Embodiment	130	man-hours
	Assembling		man-hours
	Testing		man-hours
	Manufacturing		man-hours

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This modification is to be implemented by:

ARMY - Units authorised to carry levels 3 and 4 maintenance.

RAF - Units when authorised by MT2 (RAF).

6.2 Associated modification instructions. Nil.

6.3 Modification plate strike action: NA/

7 Action required by:

7.1 Units and establishments holding equipment

7.1.1 Examine vehicle documents to see if modification is applicable.

7.1.2 Examine vehicle or modification record plate to see if modification is embodied and where necessary demand the stores required.

7.1.3 ARMY - On receipt of stores, request REME to modify equipment.

7.1.4 ARMY - Record the modification Subject, AESP number and Army Modification Code in vehicle documents.

RAF - Record modification details on RAF Form 4870 and AF G1084A.

7.2 Army units authorised to carry out levels 3 and 4 maintenance, and RAF Units.

7.2.1 ARMY - When requested by authorised users or during overhaul, obtain the items listed in para 8 and carry out this modification.

RAF - On receipt of stores, embody the modification.

7.2.2 Record completion details of modification against appropriate entry in vehicle documents.

7.2.3 Complete AF G1084A when reporting completion of the modification to Data Centre using the following FORWARD codes:

ARMY: EQUIPMENT CODE - see para 2.

MODIFICATION CODE X00711.

RAF: MODIFICATION CODE AFC224.

7.3 All recipients of this instruction. Add particulars to AESP ref 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded.

8.1.1 The following modification sets are to be demanded quoting this instruction as authority for demand, and

8.1.2 Registration number of vehicle for equipment held by user units.

<u>Item No</u>	<u>COSA Section</u>	<u>NSN/Part No</u>	<u>Designation</u>	<u>Qty per eqpt</u>
A	7BD	2540-99-839-4176	Mod set: Cab heating and de-icing comprising:	1
1			Nozzle assy rh side window(FV781846)	(1)
2			Nozzle assy lh side window(FV781847)	(1)
3			Nozzle assy windscreen (FV781850)	(2)
4			Bracket assy header tank (FV782105)	(1)
5			Bracket assy, pipe (FV782110)	(1)
6			Duct assy, blower (FV782112)	(1)
7			Elbow assy (FV782121)	(1)
8			Clip, duct single (FV721688)	(3)
9			Screen, suction fan (FV721692)	(1)
10			Connector, hose (FV721696)	(1)
11			Plate, Kopex tubes (FV781772)	(1)
12			Grommet, Kopex tubes (FV781773)	(4)
13			Branch (FV781785)	(1)
14			Label, fan de-icing (FV781797)	(1)
15			Label, battery heating (FV781798)	(1)
16			Clip, duct, double (FV781820)	(6)
17			Guard, fan suction screen (FV781834)	(1)
18			Support, heat exchanger (FV781835)	(2)
19			Connection, heat exchanger (FV781856)	(1)
20			'U' Bolt (FV781858)	(1)
21			Ducting, heater 2.896m lg(FV781912/7)	(1)
22			Ducting, heater 2.134m lg(FV781912/8)	(1)
23			Ducting, heater 2.756m lg(FV781912/9)	(1)
24			Ducting, heater 1.753m lg(FV781912/10)	(1)

25			Hose	(FV781913/7)	(1)
26			Hose	(FV781913/8)	(1)
27			Seal	(FV782115)	(1)
28			Spacer	(FV782116)	(3)
29			Bracket, methyl alcohol bottle		
				(FV782117)	(1)
30			Pipe clip	(FV782144)	(1)
31			Label, coolant refilling	(FV782152)	(1)
32			Hose, radiator bottom		
			(Vauxhall No RH519)		(1)
33			Hose, rubber, 2 in. id x 630 mm lg		(1)
34			Hose, PVC, clear 3/8 in. id x		
			1310 mm lg		(1)
35			Tubing, flexible, black 3/16 in. od x		
			380 mm lg		(1)
36			Tubing, flexible, black 3/16 in. od x		
			1270 mm lg		(1)
37	7/BD	2930-99-833-5200	Gasket, water outlet		(2)
38			Clip, hose 32-48 mm dia		(6)
39			Clip, hose, 61-79 mm dia		(4)
40			Clip, hose, 13-19 mm dia		(2)
41			Tie cable, nylon white 4.8 mm -		
			104 mm dia		(3)
42			Nut, sleeve 1/8 BSP		(4)
43			Cone		(4)
44			Switch, push pull (Lucas No 54033230)		(1)
45	G1	5305-99-977-3254	Screw, self tap, pan hd No8 x 6.5 lg		(22)
46	G1	5305-99-805-6811	Screw, self tap, pan hd No8 x 9.5 lg		(7)
47	G1	5305-99-977-3255	Screw, self tap, pan hd No8 x 13 lg		(6)
48	G1	5305-99-122-4165	Screw, self tap, pan hd No10 x 13 lg		(12)
49	G1	5306-99-941-0303	Bolt, hex hd 5/16 in. UNF x 2½ in. lg		(1)
50	G1	5306-99-941-0305	Bolt, hex hd 5/16 in. UNF x 3 in. lg		(1)
51	G1	5305-99-136-3255	Screw, hex hd M5 x 30 lg		(3)
52	G1	5305-99-135-0442	Screw, pan hd slotted M6 x 25 lg		(4)
53	G1	5305-99-122-5361	Screw, hex hd M6 x 20 lg		(4)
54	G1	5305-99-122-5365	Screw, hex hd M8 x 16 lg		(1)
55	G1	5310-99-122-5294	Nut, steel hex M5		(3)
56	G1	5310-99-122-5295	Nut, steel hex M6		(12)
57	G1	5310-99-122-5296	Nut, steel hex M8		(1)
58	G1	5310-99-138-9226	Washer, lock, SC M5		(3)
59	G1	5310-99-137-9232	Washer, lock, SC M6		(10)
60	G1	5310-99-138-9227	Washer, lock SC M8		(1)
61	G1	5310-99-122-6474	Washer, flat steel M6		(4)
B	7/BD	2540-99-839-4187	Mod Set: Battery Box Fitting		
			(FV782172)		1
			Comprising:		
62			Pipe c/w nipples	(FV586292/6)	(1)
63			Pipe assy battery to tee piece		
				(FV586518/6)	(2)
64	6/MT1	4730-99-801-8722	Adaptor tee		(1)
65			Socket, fixed	(FV634272)	(1)
66			Spacer	(FV722044)	(4)
67			Connector	(FV782149)	(3)

68			Clip hose	(FV781809)	(1)
69			Battery vent assy c/w mounting bracket and fixings	(FV782174)	(1)
70			Adaptor	(FV985996)	(1)
71			Grommet, cable, 1/2 in. id x 3/8 in. PT		(1)
72			Grommet, cable, 13/16 in. id x 5/32 in. PT		(2)
73			Elbow rubber 5/8 in. id		(2)
74			Hose rubber 5/8 in. id x 1067 mm lg		(1)
75			Hose rubber 5/8 in. id x 2439 mm lg		(1)
76			Clip, hose 16-22 mm dia		(9)
77			Unallocated		
78			Terminal, ring type (Ampliversal ref no 33470)		(2)
79			Cable, battery to starter red PVC outer 3 m lg		(1)
80			Cable tie, nylon natural white 1.6 mm - 78 mm dia		(6)
81	G1	5305-99-135-0425	Screw pan hd M4 x 20 lg		(1)
82			Screw hex hd slotted 2BA x 16 mm lg		(2)
83	G1	5305-99-122-5359	Screw, hex hd M6 x 12 lg		(2)
84	G1	5305-99-122-6440	Screw, hex hd M6 x 40 lg		(4)
85	G1	5310-99-122-5295	Nut hex, M6		(6)
86	G1	5310-99-137-9232	Washer, lock SC M6		(6)
87	G1	5310-99-138-9225	Washer, lock SC M4		(1)
88	G1	5310-99-135-0755	Nut, hex M4		(1)
C	7/BD	2540-99-839-4278	Mod Set: Cab Hatch insulation assy comprising:	(FV781832)	1
89			Hatch, bottom	(FV781851)	(1)
90			Hatch, middle	(FV781852)	(1)
91			Spacer	(FV781853)	(3)
92			Spacer	(FV781854)	(2)
93	G1	5305-99-137-8254	Screw self tap pan hd No 8 x 32 lg		(6)
94	G1	5305-99-	Screw, self tap, pan hd No 8 x 38 lg		(2)
95	G1	5310-99-122-3031	Washer steel flat		(8)
D	7/BD	2540-99-839-4279	Mod Set: Blind and Installation Kit, front windscreen comprising:	(FV782097)	1
96			Blind assy, front windscreen	(FV781828)	(1)
97			Bar, fixing	(FV782101)	(1)
98			Strap	(FV781911/1)	(2)
99		5340-99-829-2983	Clip	(FV721819)	(2)

100			Velcro mounting assy 552 mm lg	(FV782246/2)	(2)
101	G1	5305-99-977-3255	Screw, self tap, pan hd No 8 x 13 lg		(4)
102	G1	5305-99-122-5356	Screw, hex hd, M5 x 16 mm lg		(6)
103	G1	5310-99-122-3032	Washer, flat, steel M5		(12)
104	G1	5310-99-138-9226	Washer, lock SC M5		(6)
105	G1	5310-99-122-5294	Nut, plain, hex steel M5		(6)
106			Rivet "Pop" 3.2 mm dia x 7.9 mm lg		(22)
			(Tucker Pt No TAP/D46BS)		
E	7/BD	2540-99-839-4280	Mod Set: Blind and Installation Kit, Radiator Grill	(FV782098)	1
			comprising:		
107			Blind assy radiator grill		
				(FV782106)	(1)
108			Bar fixing	(FV722040)	(1)
109		5340-99-829-2983	Clip	(FV721819)	(4)
110			Velcro mounting assy	(FV782246/2)	(1)
111	G1	5305-99-977-3255	Screw, self tap, pan hd No 8 x 13 lg		(15)
112			Rivet "Pop" 3.2 mm dia x 7.9 mm lg		(11)
F	7/BD	2540-99-839-4281	Mod Set: Blind and Installation Kit lh side window	(FV782248)	1
			comprising:		
113			Blind assy lh side window	(FV781830)	(1)
114			Bar fixing	(FV782103)	(1)
115		5340-99-829-2983	Clip	(FV721819)	(1)
116			Strap	(FV781911/1)	(2)
117			Velcro mounting assy 908 mm lg	(FV782246/1)	(1)
118			Velcro mounting assy 495 mm lg	(FV782246/4)	(2)
119	G1	5305-99-977-3255	Screw, self tap pan hd No 8 x 13 mm lg		(2)
120			Rivet "Pop" 3.2 mm x 7.9 mm lg		(30)
121	G1	5310-99-122-5294	Nut steel, hex M5		(5)
122	G1	5310-99-138-9226	Washer, lock SC M5		(5)
123	G1	5310-99-122-3032	Washer, flat steel M5		(10)
124	G1	5305-99-122-5357	Screw, hex hd M5 x 20 mm lg		(5)
G	7/BD	2540-99-839-4282	Mod Set: Blind and Installation Kit rh side window	(FV782249)	1
			comprising:		

125			Blind assy rh side window (FV781829)	(1)	
126			Bar fixing (FV782103)	(1)	
127			Strap (FV781911/1)	(2)	
128		5340-99-829-2983	Clip (FV721819)	(2)	
129			Velcro mounting assy 908 mm lg (FV782246/1)	(1)	
130			Velcro mounting assy 495 mm lg (FV782246/4)	(1)	
131	G1	5305-99-977-3255	Screw, self tap, pan hd No 8 x 13 mm lg	(4)	
132	G1	5305-99-122-5357	Screw, hex hd M5 x 20 mm lg	(5)	
133	G1	5310-99-122-5294	Nut, plain hex M5	(5)	
134	G1	5310-99-438-9226	Washer, lock SC M5	(5)	
135	G1	5310-99-122-3032	Washer, flat steel M5	(10)	
136			Rivet "Pop" 3.2 mm dia x 7.9 mm lg	(30)	
H	7/BD	2540-99-839-4283	Mod Set: Blind and Installation Kit, rear cab (FV782250)		1
			comprising:		
137			Blind assy, rear cab (FV782108)	(1)	
138			Strap (FV781911/1)	(2)	
139			Bar fixing (FV782109)	(1)	
140		5340-99-829-2983	Clip (FV721819)	(3)	
141	G1	5305-99-977-3255	Screw, self tap, pan hd No 8 x 13 mm lg	(12)	
J	7/BD	2540-99-839-4284	Mod Set: Radiator Blind Installation (FV782128)		1
			comprising:		
142			Blind assy radiator (FV781821)	(1)	
143	G1	5305-99-122-4911	Screw, hex hd M10 x 30 mm lg	(4)	
144	G1	5310-99-122-5297	Nut, hex steel M10	(4)	
145	G1	5310-99-138-9228	Washer, lock SC M10	(4)	
146	G1	5310-99-122-6476	Washer plain steel M10	(24)	
K	7/BD	2540-99-839-4285	Mod Set: Rear Mud flaps (FV781762)		1
			comprising:		
147			Mud flap rear (FV722050)	(2)	
148			Angle, fixing, rear mud flap (Drivers Side) (FV781760)	(1)	
149			Angle, fixing, rear mud flap (passengers side) (FV781777)	(1)	
150			Strip, fixing, rear mud flap (FV781761)	(2)	
151	G1	5305-99-941-0513	Screw, steel, hex hd 1/4 in. UNF x 3/4 in. lg	(10)	
152	G1	5310-99-941-0924	Nut, steel hex 1/4 in. UNF	(10)	
153	G1	5310-99-944-0548	Washer, lock SC 1/4 in. id	(10)	

8.2 Stores to be demanded as individual items.

154	7/BD	2990-99-781-5344	Heat exchanger	(FV871825)	1
155	7/BD	2540-99-781-5345	Battery casing and insulation assy	(FV781823)	1

8.3 Stores or suitable equivalent to be obtained locally.

156	Y3	6145-99-943-4824	Cable Unipren 12	As reqd.
157	CA	8315-99-136-3125	Velcro hooks 50 mm wide self adhesive, olive drab	As reqd.

8.4 Stores to be removed and returned to RAOC

158			Battery box assy	1
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Sequence of operations

9 Carry out the modification as follows:

Note...

The item numbers of para 8 are used as references throughout this instruction.

9.1 Drain cooling system.

9.2 Remove and modify radiator outlet pipe using branch pipe (item 13) by welding and drilling as detailed in Fig. 3. Refit after modification.

9.3 Disconnect thermostat top hose and remove thermostat cover. Fit heat exchanger connection (item 19) and rebuild using new gaskets (item 37) and longer bolts (item 49 and 50) as detailed in Fig. 2 view on arrow 'A'. Modify thermostat bracket to dimensions shown in Fig. 4 and refit.

9.4 Remove and reposition header tank to rear exterior of cab using bracket (item 4) and fixings (item 52, 56, 59 and 61) as detailed in Fig. 5.

9.5 Remove and reposition methyl bottle using bracket (item 29) securing with original fixings and self tapping screws (item 46) as detailed in Fig. 5.

Refer to Fig. 6

9.6 Remove and retain all stowage clips and fixings from cab rear shelf. Modify shelf as detailed to accept heat exchanger (item 154) and Kopex plate (item 11). Fit Kopex plate with grommets (item 12) to underside of shelf at 312 mm x 76 mm cut out and secure with self tapping screws (item 47).

Sequence of operations (Cont'd).

9.7 Using support brackets (item 18) as templates positioned on heat exchanger unit assy at 263 mm centres as shown, drill eight holes 2.95 mm dia (No 32 drill) through heat exchanger housing as shown. Secure brackets to housing with self tapping screws (item 45). Remove existing flange from top of fan unit of exchanger assy and replace with blower duct assy (item 6) secured with existing fixings. Fit seal (item 27) over top flange of duct and insert spacer (item 28) into each hole in gasket. Align spacers with holes in top flange and fit complete heat exchanger assy to underside of top shelf and secure with fixings (item 53, 56 and 59) at support bracket location. Refit previously removed fan unit top flange with suction screen (item 9) and guard (item 17) in that sequence on top of shelf over fan unit securing with fixings (item 51, 55 and 58). Refit all stowage clips to new positions on shelf where detailed, securing with original fixings. Using felt removed from new positions of stowage clips and suitable adhesive locally supplied cover the original positions on shelf.

Refer to Fig. 7

9.8 Drill one hole 9.5 mm and fourteen holes 2.5 mm dia. in dash panel at positions detailed. Fit switch (item 44) to 9.5 mm dia holes and labels (item 14, 15 and 31) to 2.95 mm dia holes securing each with self tapping screws (item 45).

Refer to Fig. 2

9.9 Fit air nozzles (item 3) over front windscreen as shown and secure with self tapping screws (item 46). Fit air nozzle (item 1) over rh door aperture and air nozzle (item 2) over lh door aperture securing both with self tapping screws (item 46). Ensure that both nozzles are fitted high enough to clear door aperture. Connect heat exchanger outlet nozzles to air nozzles using appropriate length ducting (item 21, 22, 23 and 24) securing to cab roof with clips (item 18 and 16) and self tapping screws (item 48).

Refer to Fig. 8

9.10 Remove existing battery box assy from chassis and replace with heated and insulated battery box assy (item 155) securing with existing fixings.

9.11 Using slave socket (item 65) as template positioned on chassis side member where shown, mark off and drill four 6.5 mm dia. holes through member. Fit socket to chassis securing with fixings (item 84, 85 and 86) and with a spacer (item 66) on each bolt interposed between socket and side member. Open out existing hole in sidemember adjacent to socket to 21 mm dia. and fit grommet (item 71). Connect socket to starter motor and to earth using cable (item 79) and ring type terminals (item 78) as shown. Secure cable, socket to starter motor, to existing starter motor cable with cable ties (item 80) as necessary.

Sequence of operations (Cont'd).

9.12 Fit battery vent assy c/w mounting bracket (item 69) to rear side of battery box with supplied fixings, attachment holes already drilled in box. Feed existing battery cables into battery box, pushing out blanking grommets and replacing them with grommets (item 72) as necessary. Fit and secure correct type batteries (Fig. 8 Note 6 refers) into battery box and connect battery cables to battery terminals as shown. Connect flame trap assy (item 69) to batteries with breather pipe assy (item 62, 63 and 64).

Refer to Fig. 2

9.13 Fit bracket (item 5) to engine air cleaner lower clamp bolt. Connect heat exchanger outlet to branch pipe (item 13) at thermostat with hose (item 25) fed through bracket (item 5) and secured with clips (item 38). Connect heat exchanger inlet to connection (item 19) on thermostat with hose (item 26) secured with clips (item 38). Disconnect cab heater hose at water pump end and reconnect to battery heater inlet using rubber elbow (item 73) connectors (item 67) hose (item 74) and clips (item 76) as detailed. Connect battery heater outlet to pump end using rubber elbow (item 73) connector (item 67) hose (item 75) and clips (item 76). Secure both battery heater hoses to chassis with clip (item 68) securing with fixings (item 81, 87, and 88).

Refer to Fig. 5

9.14 Remove 180 mm length of cab rear panel bottom lip to accommodate connection of header tank to radiator top hose using hose (item 33) elbow assy (item 7) and clips (item 39) as detailed. Drill two holes 6.5 mm dia in cab rear panel at position shown to accommodate 'U' bolt (item 20). Secure bolt with fixings (item 56 and 59). Replace rear section of header tank overflow pipe with plastic pipe (item 34) securing to tank and intermediate steel pipe with clips (item 40) and to header tank outlet pipe (item 33) with cable ties (item 41).

9.15 Replace pipe, methyl bottle check valve to governor valve with tubing (item 35) securing with cones and sleeve nuts (item 42 and 43). Replace pipe, methyl bottle check valve to compressor with tubing (item 36) securing with cones and sleeve nuts (item 42 and 43).

9.16 Using cable (item 156) complete wiring of switch (item 44) to heat exchanger and vehicle fuse box as shown in Fig. 9.

9.17 Fit cab roof hatch insulation panels (item 89 and 90) to hatch with spacers (item 91 and 92) as detailed in Fig. 10 securing with fixings (item 93, 94 and 95).

9.18 Fit radiator blind assy (item 142) securing to chassis with fixings (item 143, 144, 145 and 146) as detailed in Fig. 11, cab centre panel to be drilled as shown to accommodate blind operating cable.

9.19 Fit cab screen and radiator grill blinds (item 96, 107, 113, 125 and 137) securing with items listed in each kit as detailed in Fig 12, velcro strips where called for are to be secured to cab with "pop" rivets.

9.20 Fit rear mudflaps (item 147) to underside of rear stowage boxes as shown in Fig. 13, as detailed with angle (item 148, 149) and strip (item 150) securing with fixings (item 150, 151, 152 and 153).

9.21 Refill cooling system with anti-freeze.

Testing and embodiment

10 Run engine, check operations, bleed system and check for coolant leaks.

EFFECT ON WEIGHT

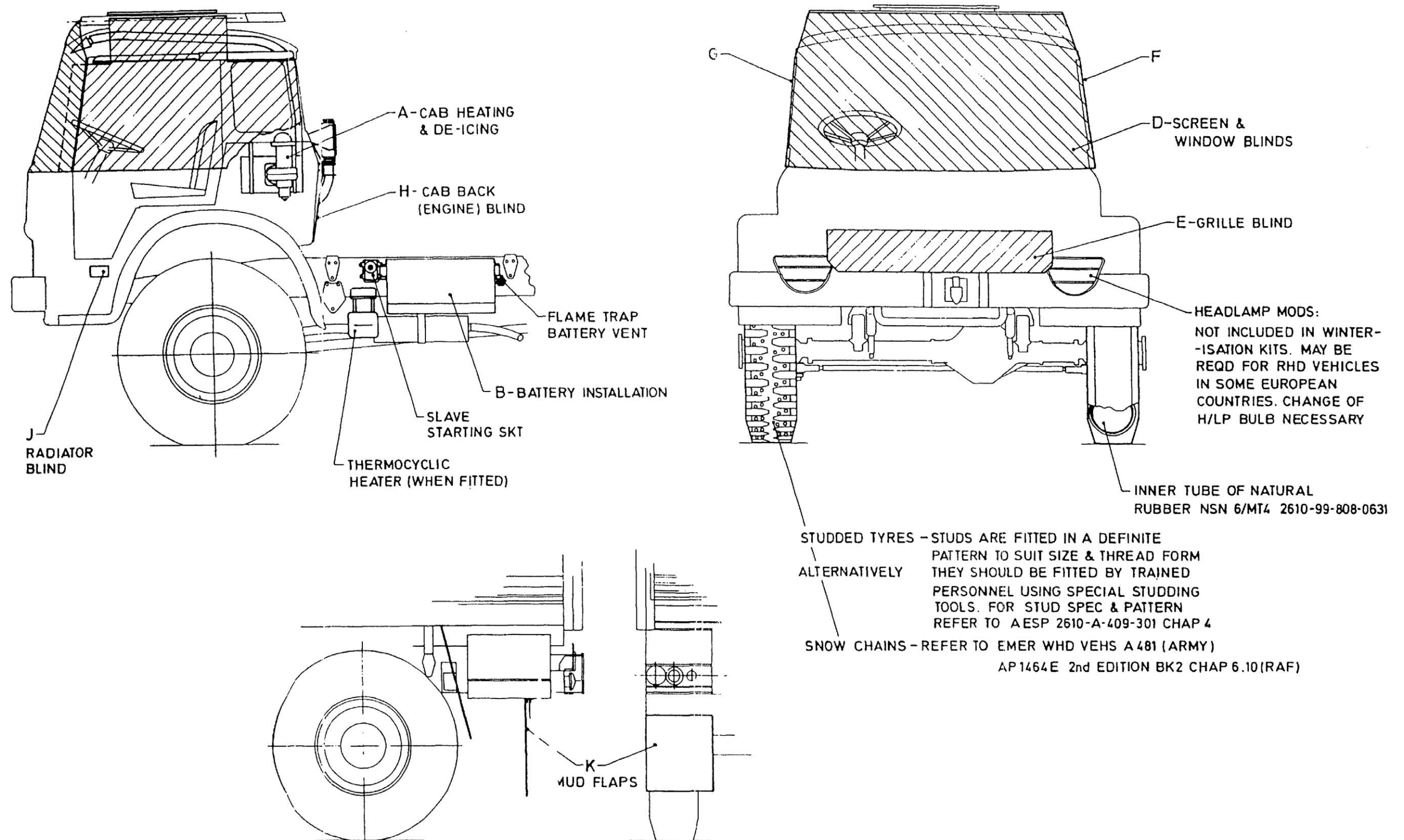
11 Negligible.

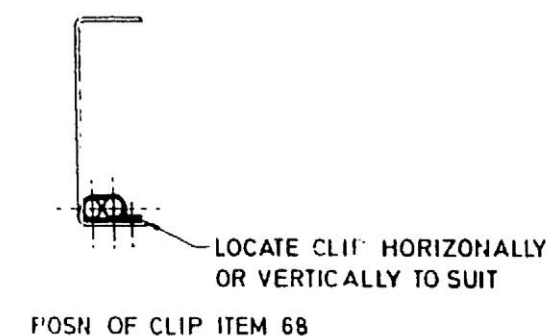
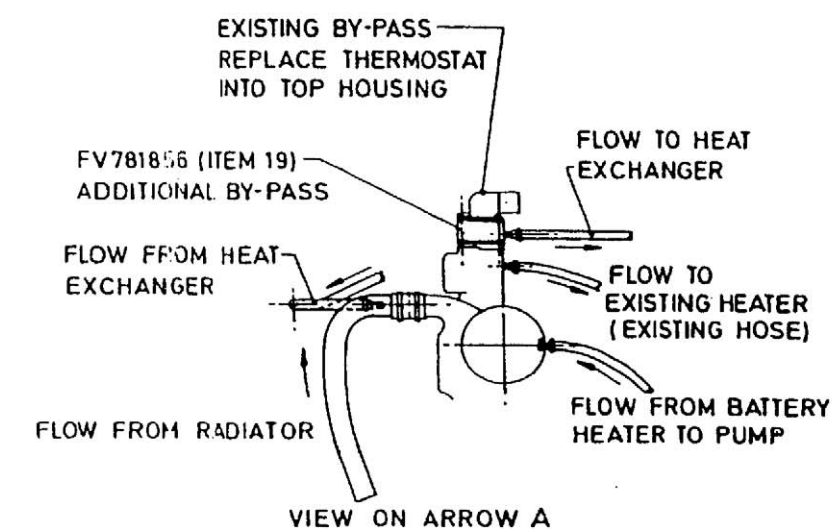
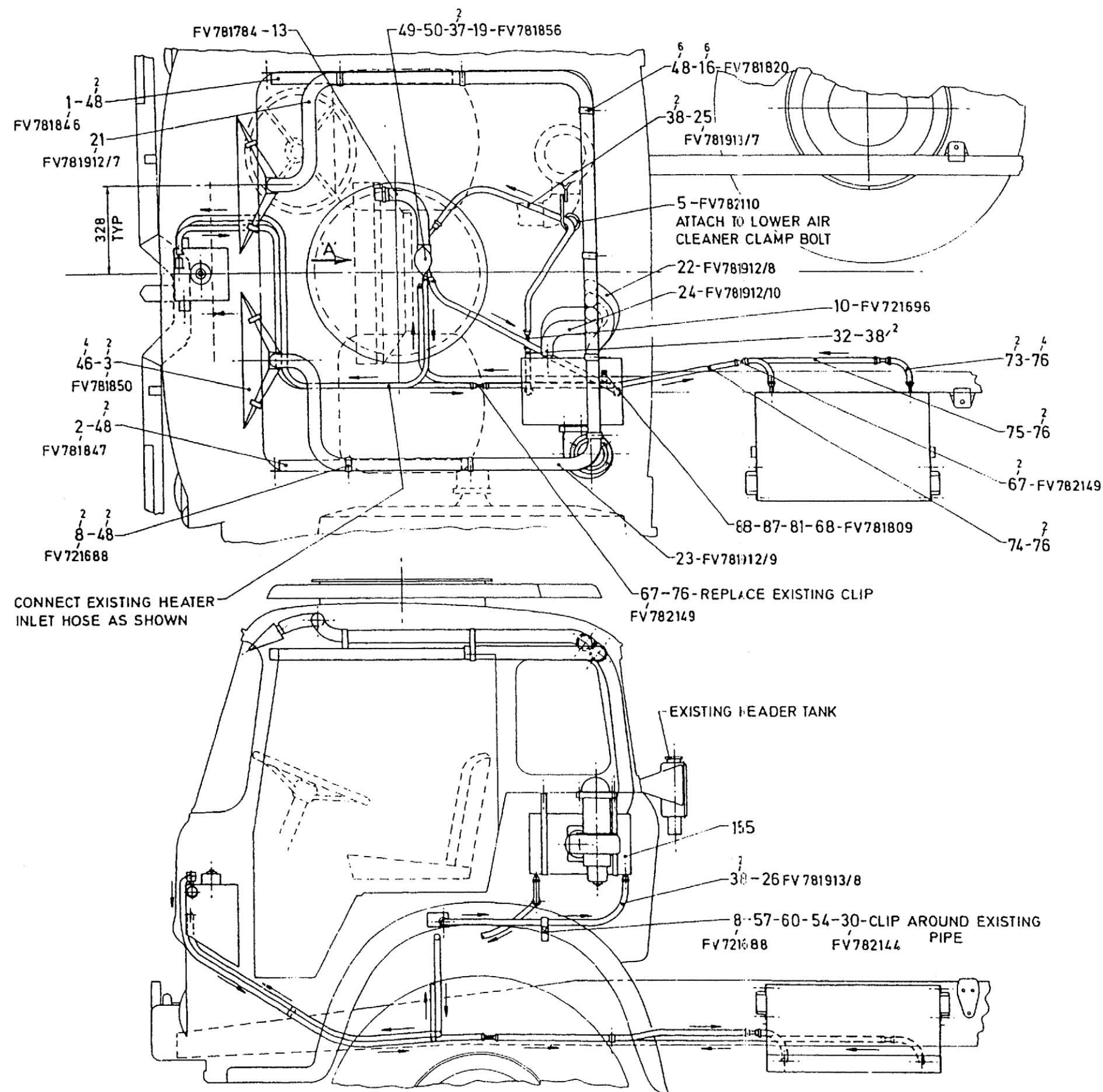
PUBLICATION AMENDMENTS

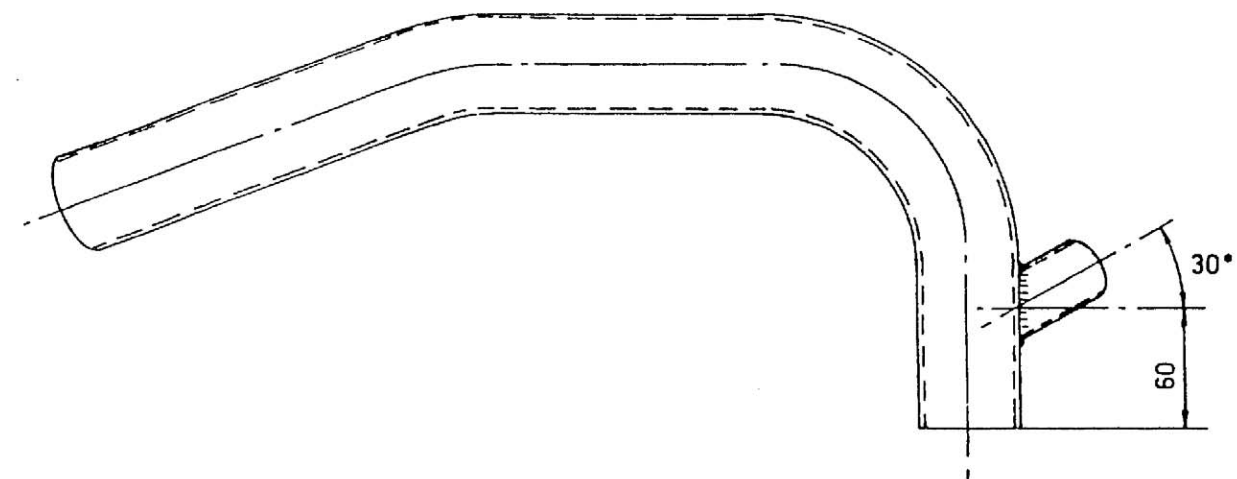
Note...

Necessary amendments will be issued separately.

12 Nil.







WELDING TO CONFORM
TO MVEE SPEC 1031

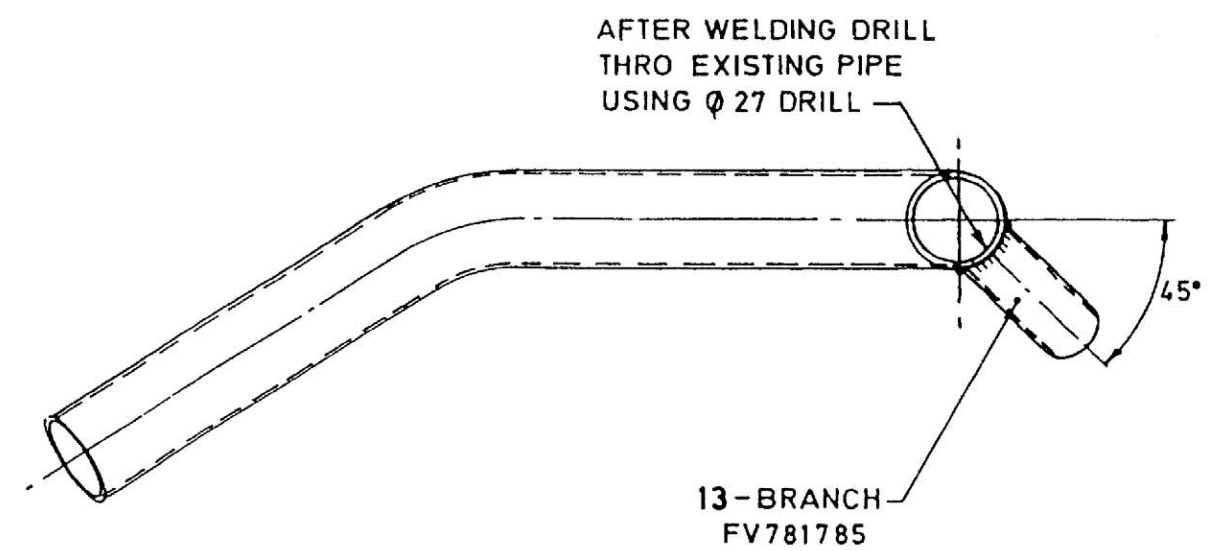
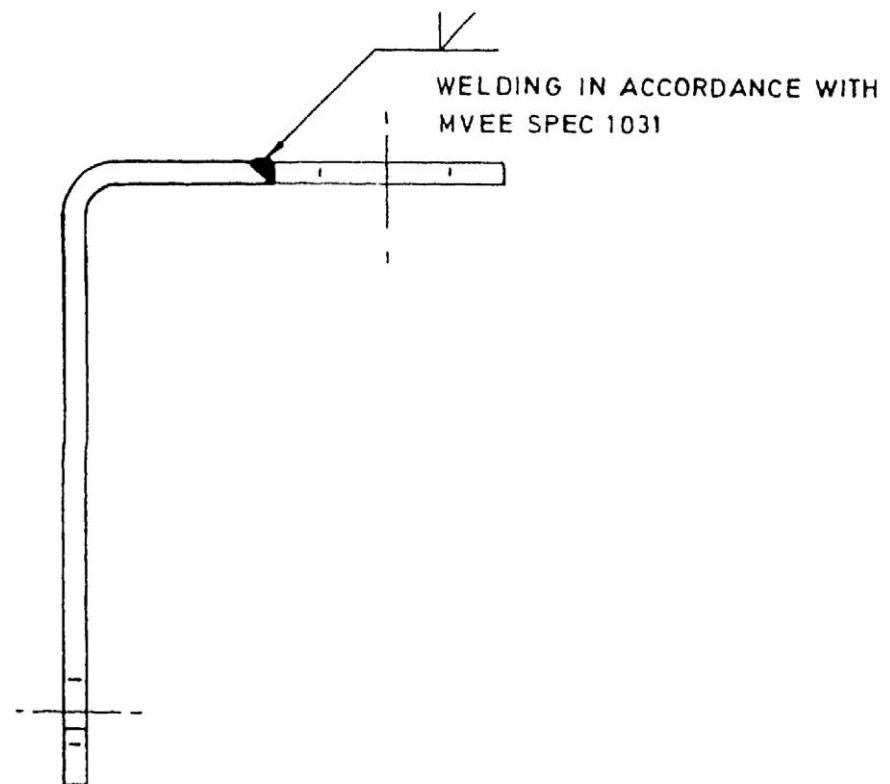
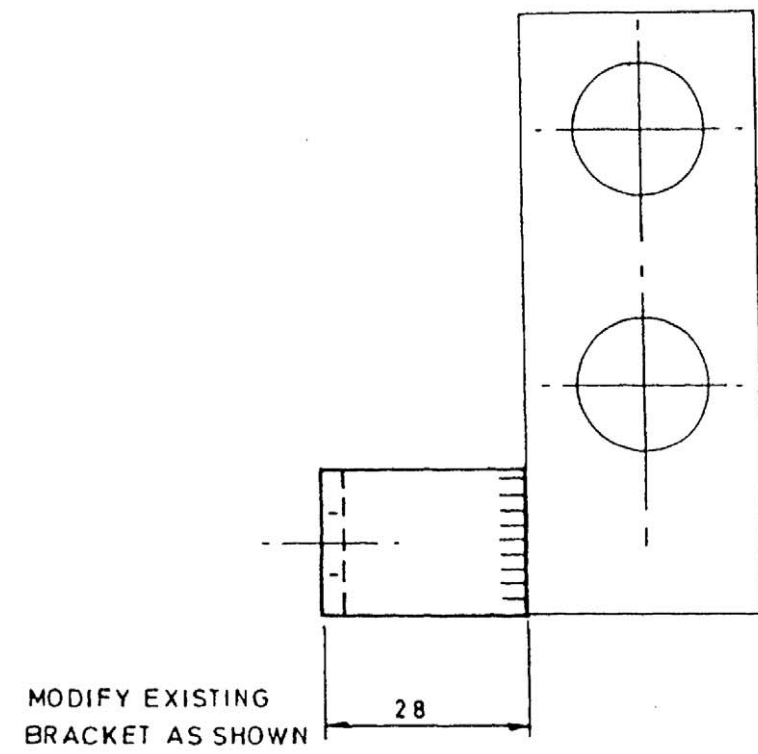
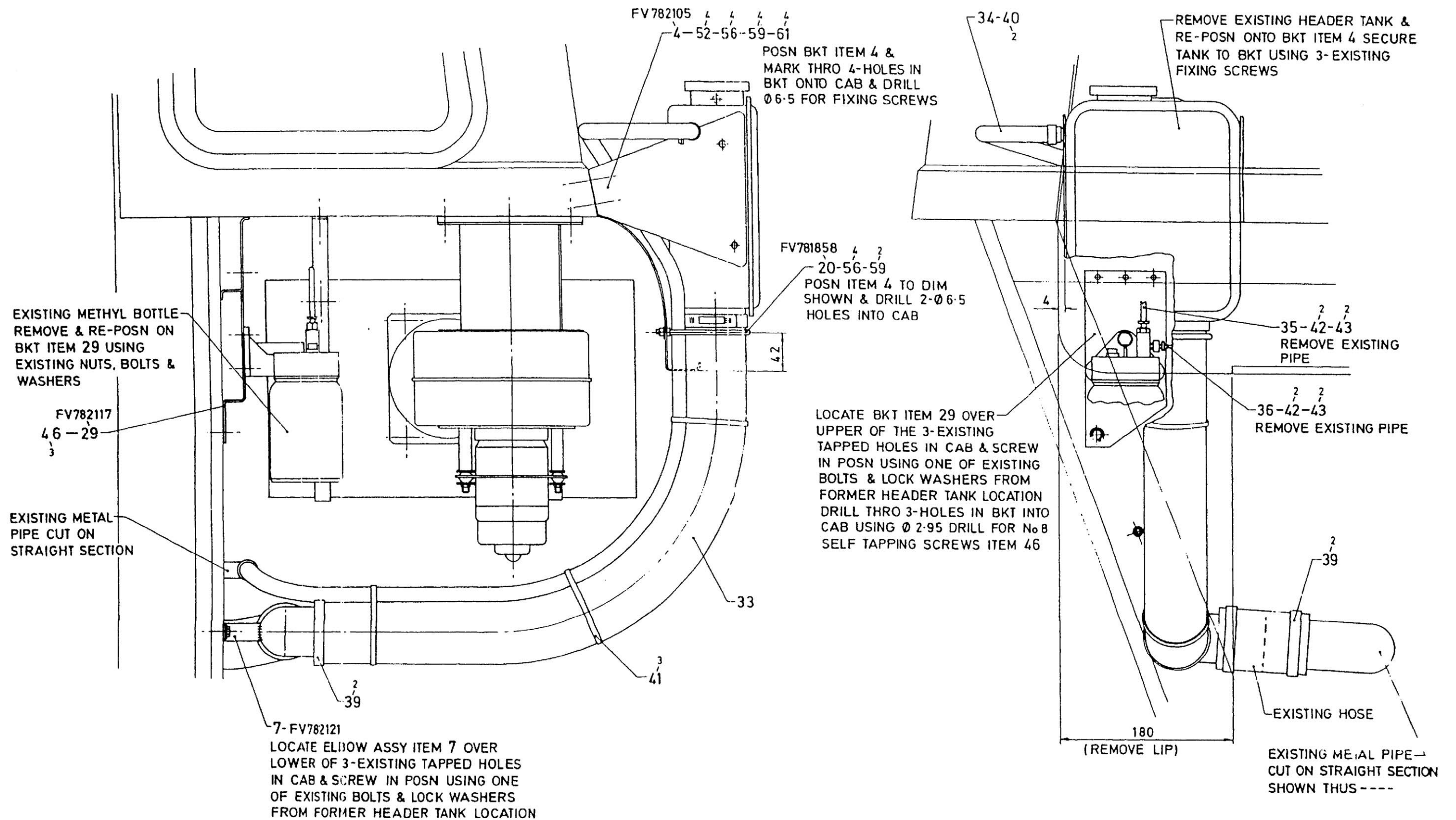
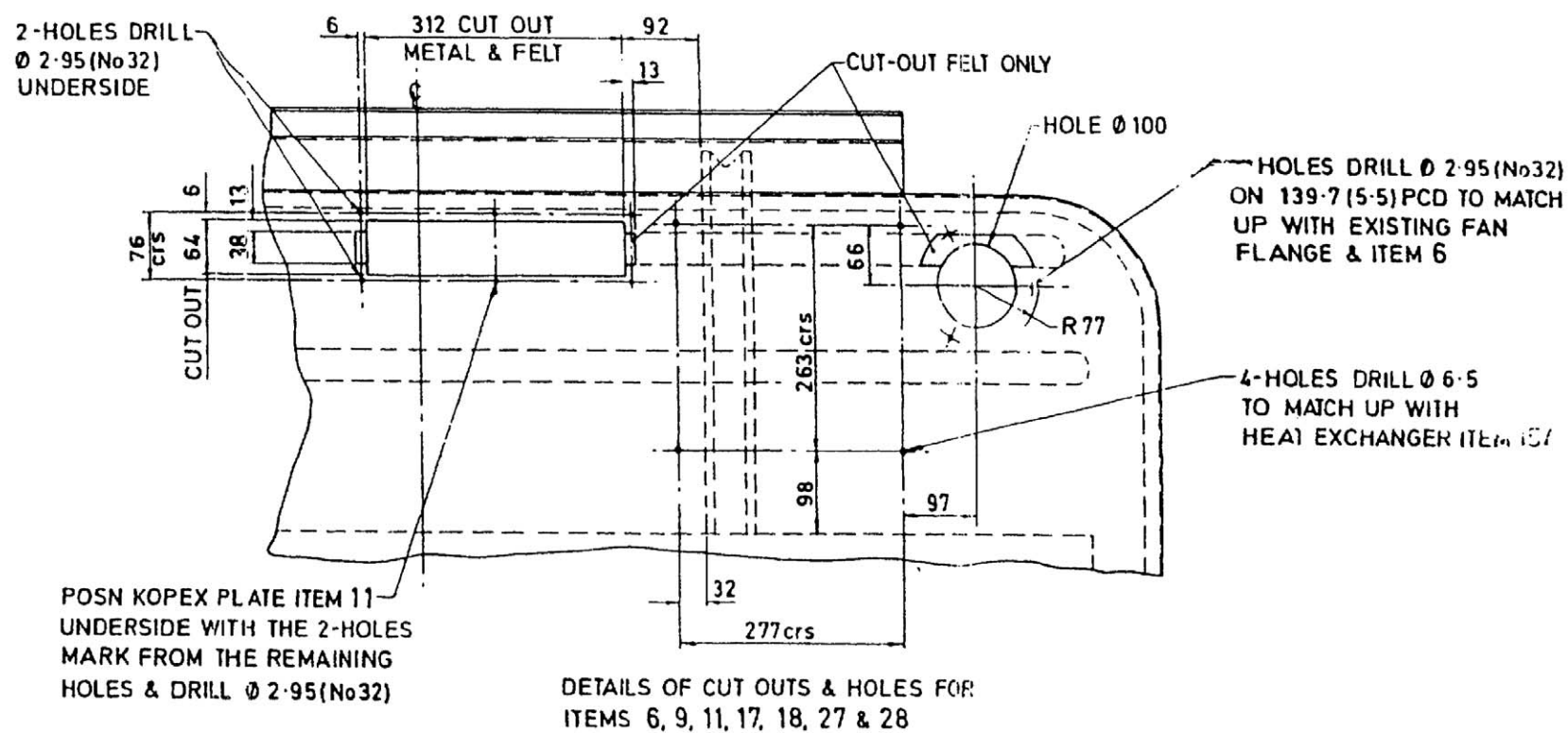
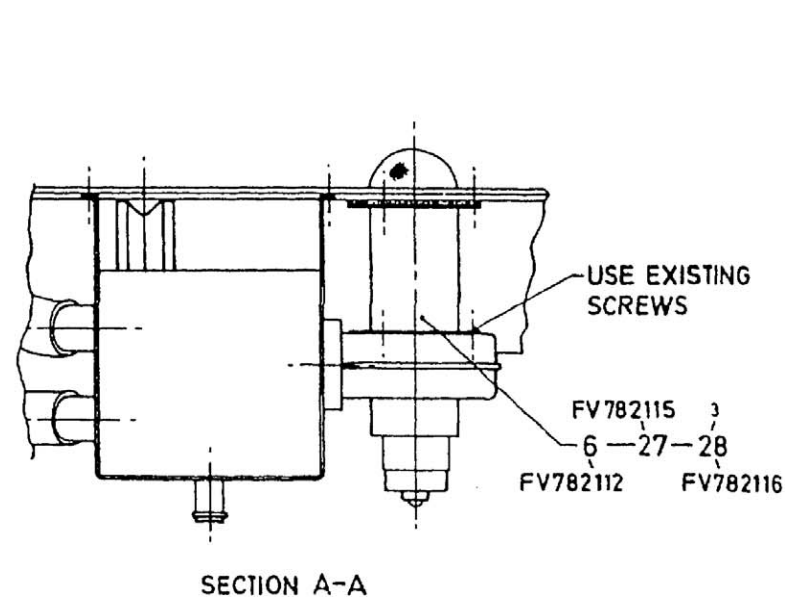
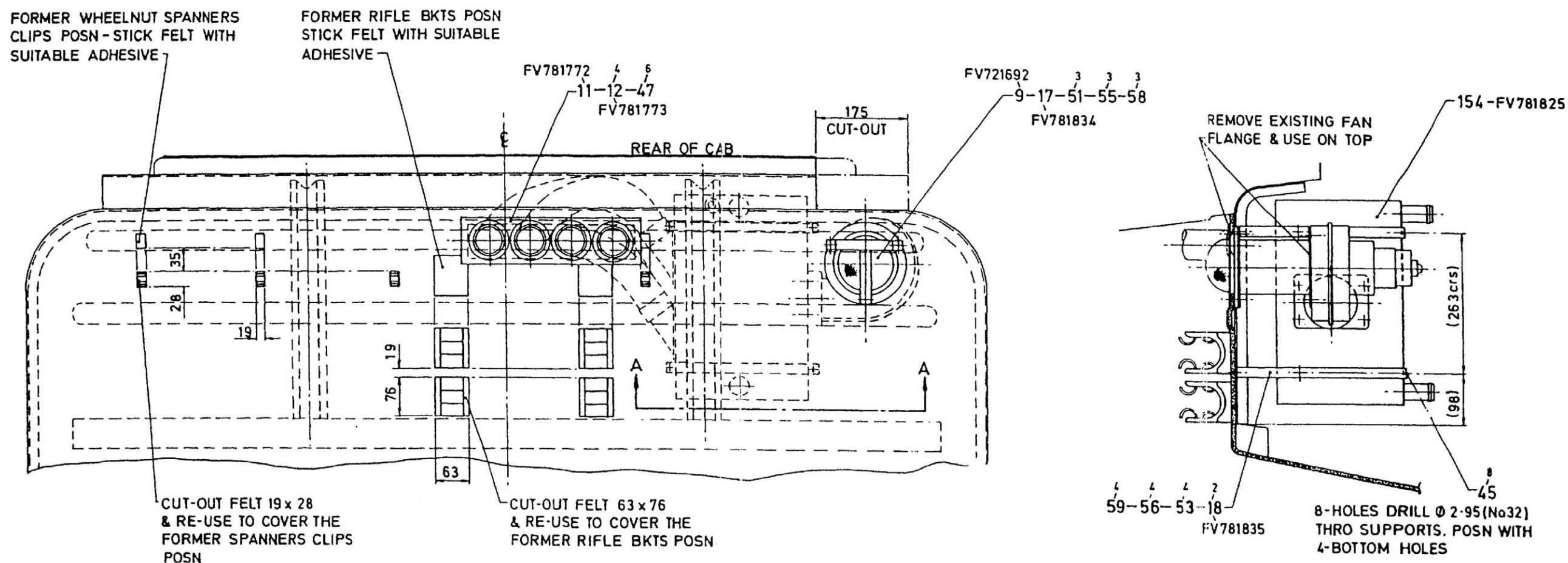


Fig 3 Addition of branch to existing
radiator outlet (dimensions in mm)

V6927/5







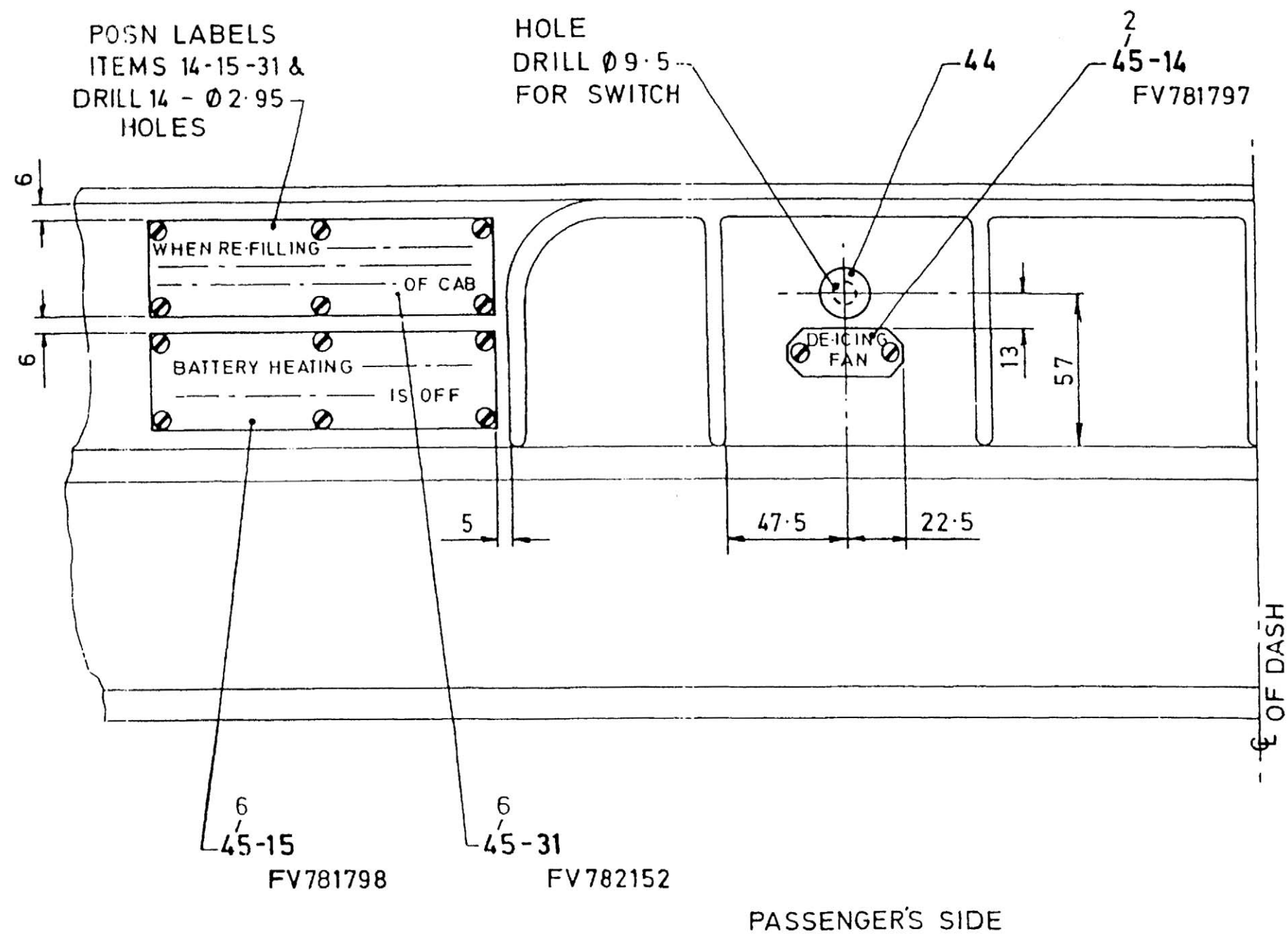
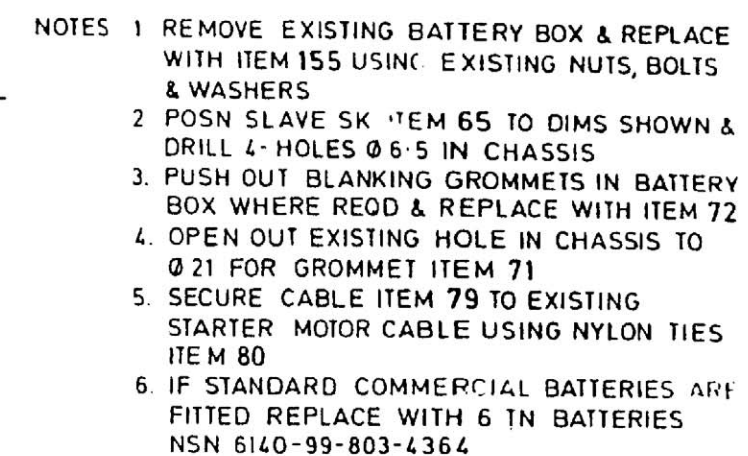


Fig 7

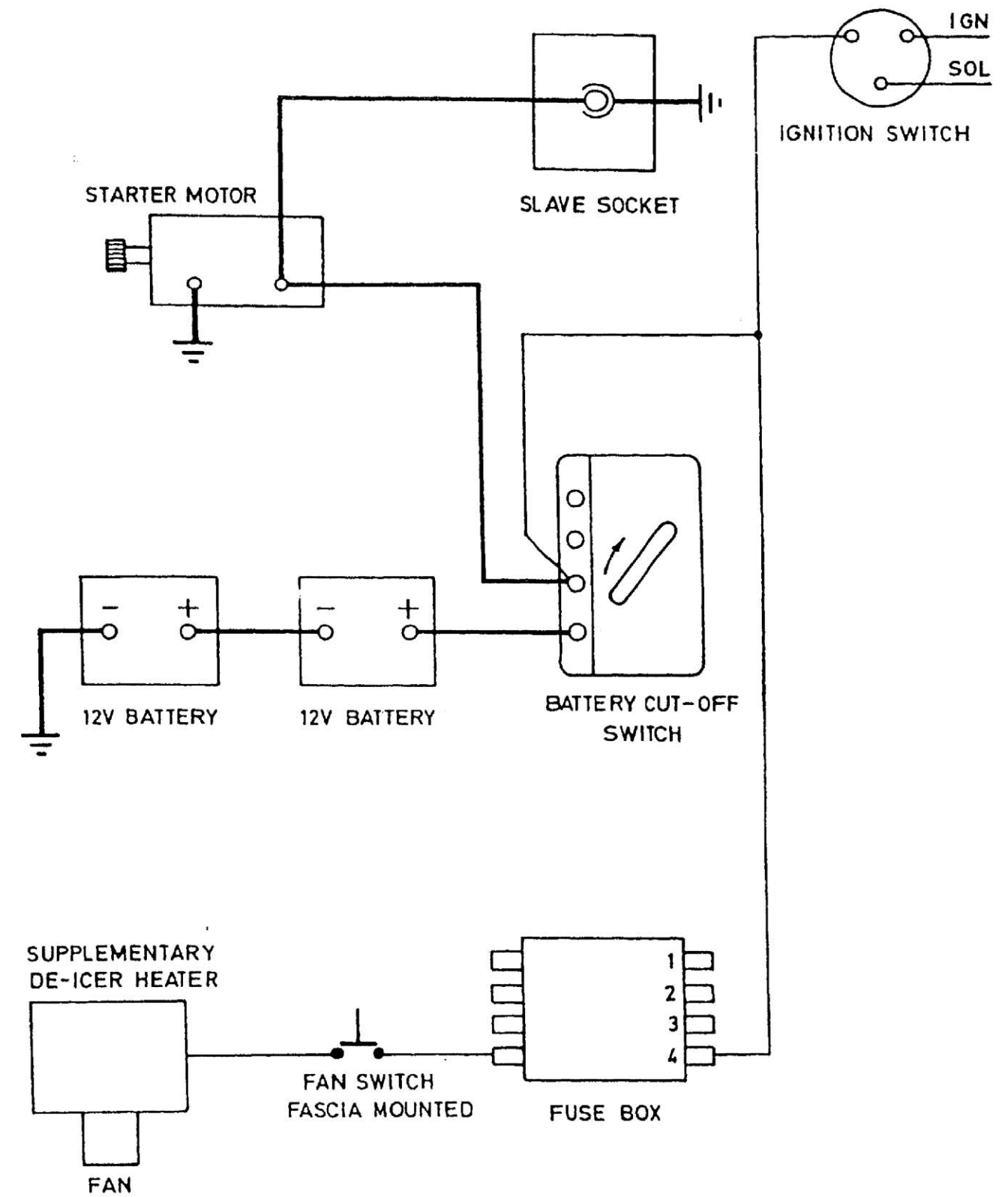
Location of fan switch and labels
(Dimensions in mm)

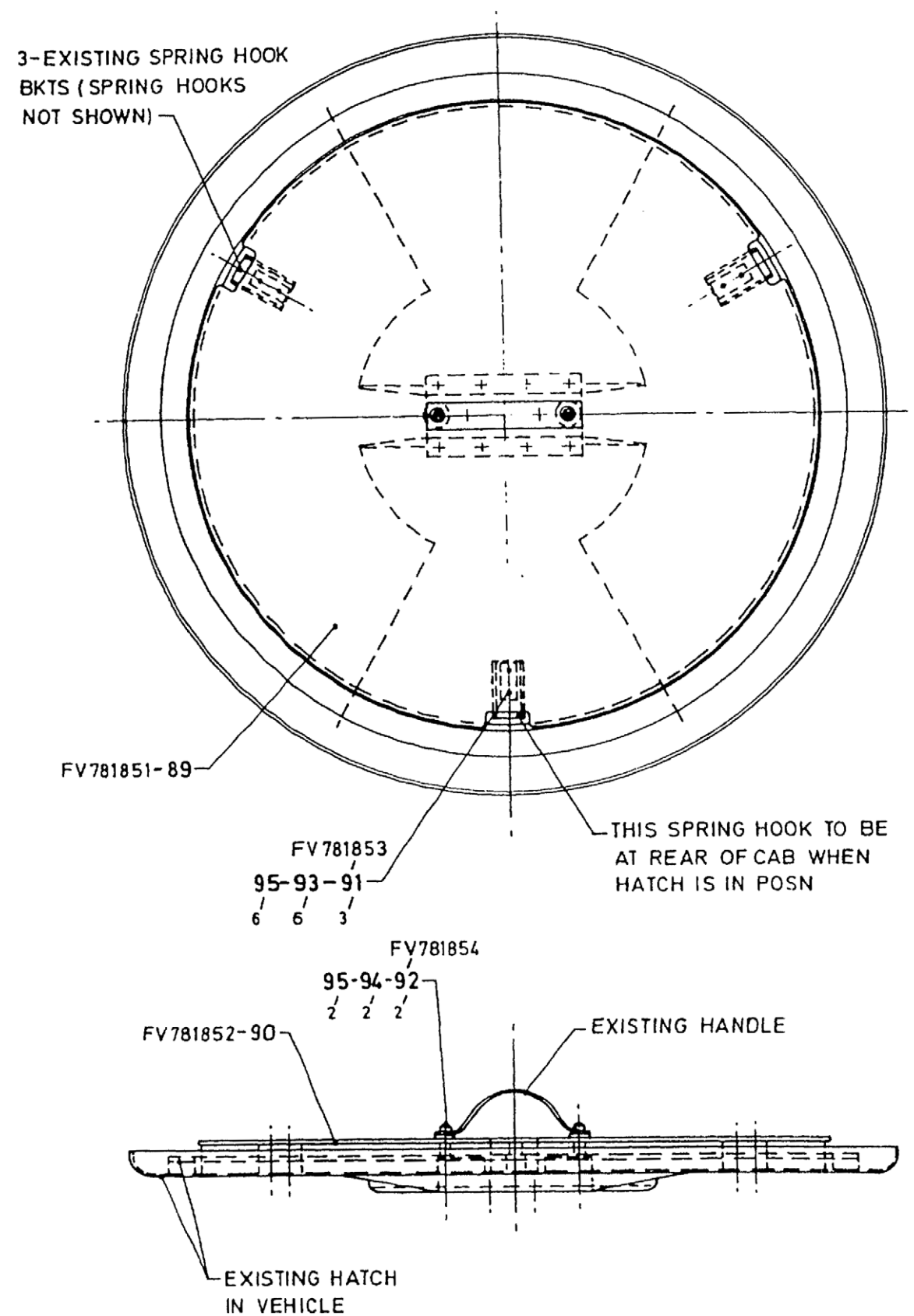
V6927/3

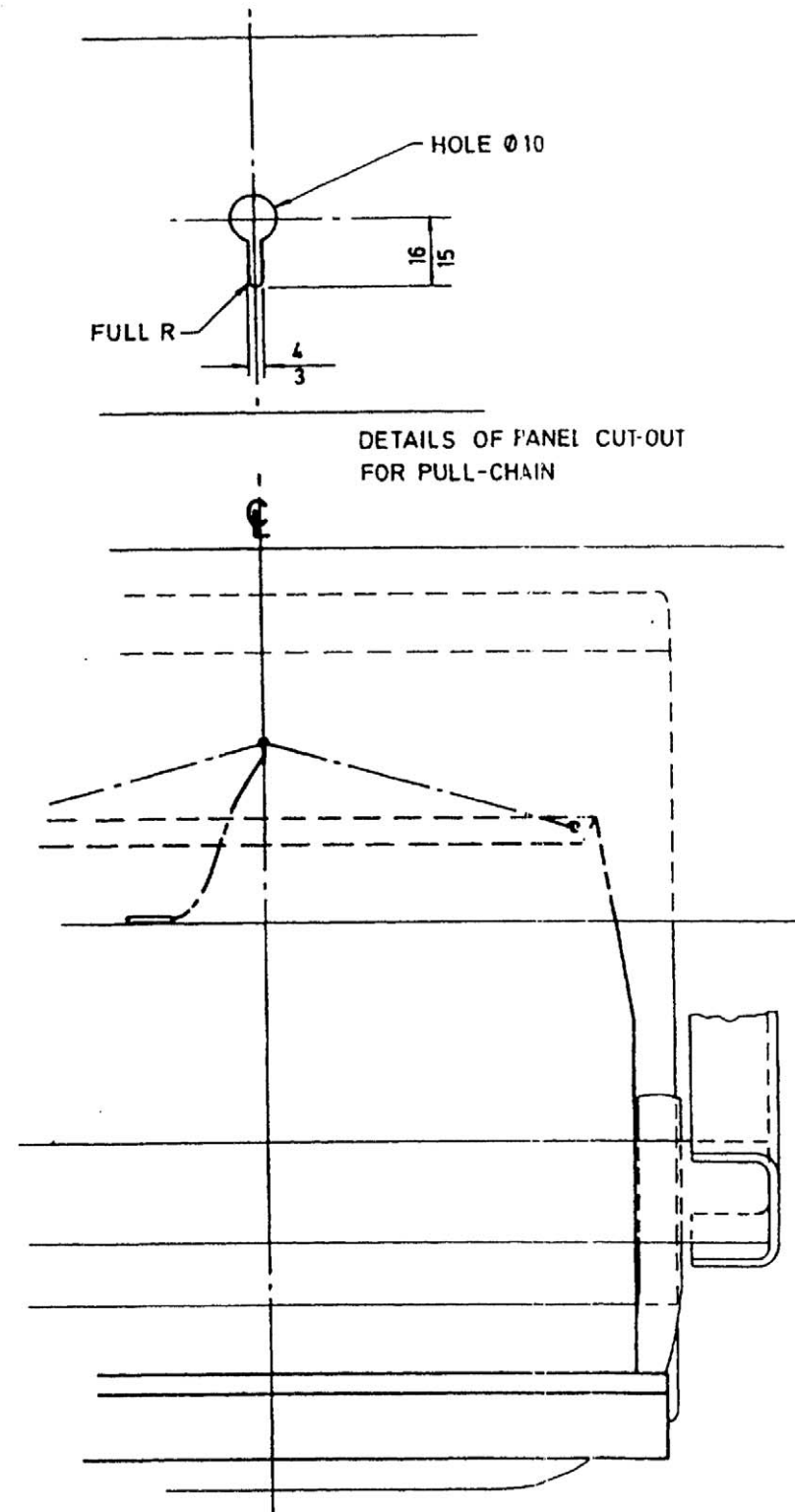
Fig 7



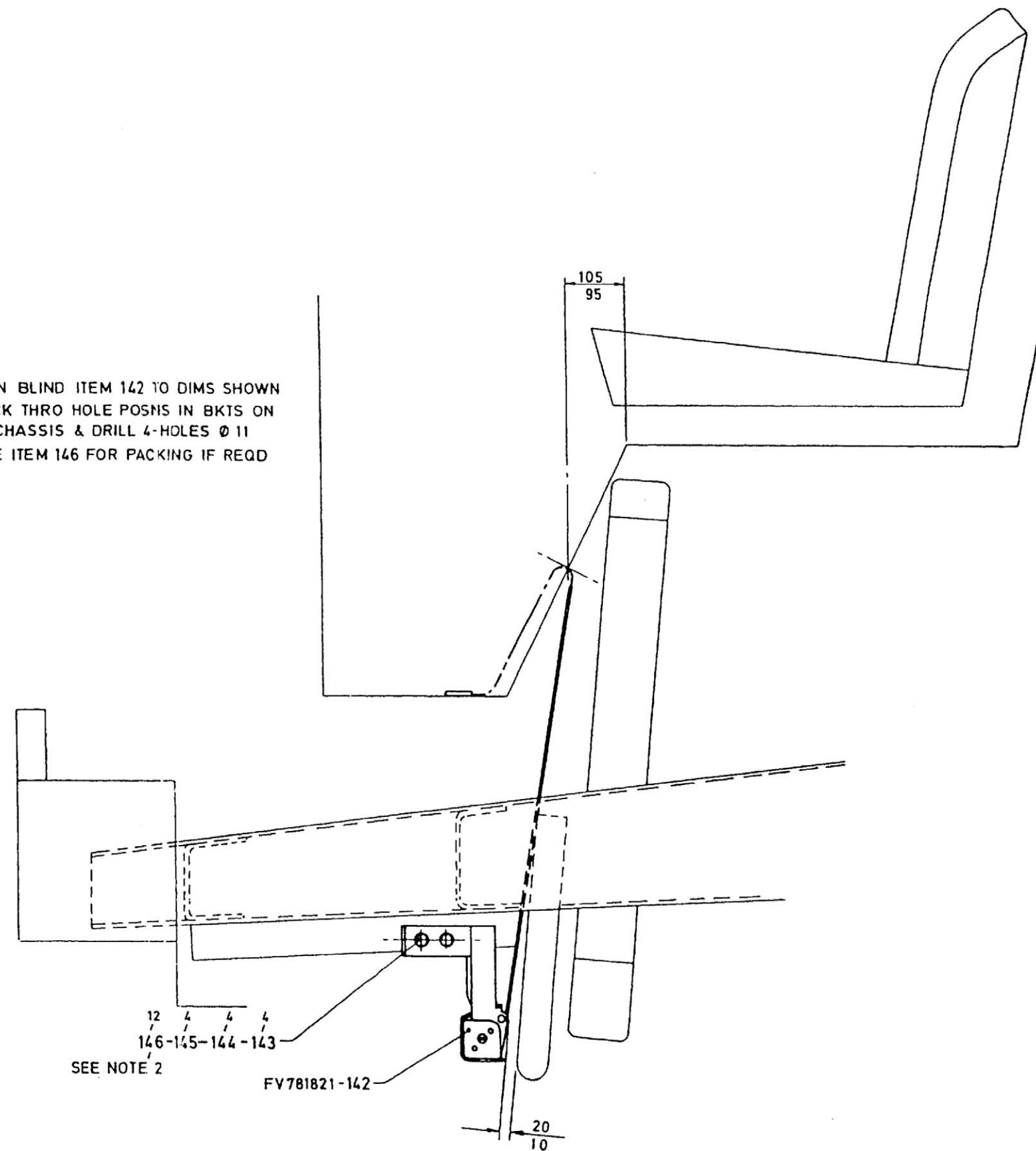
FOR CIRCUIT DIAGRAM SEE V6927/9

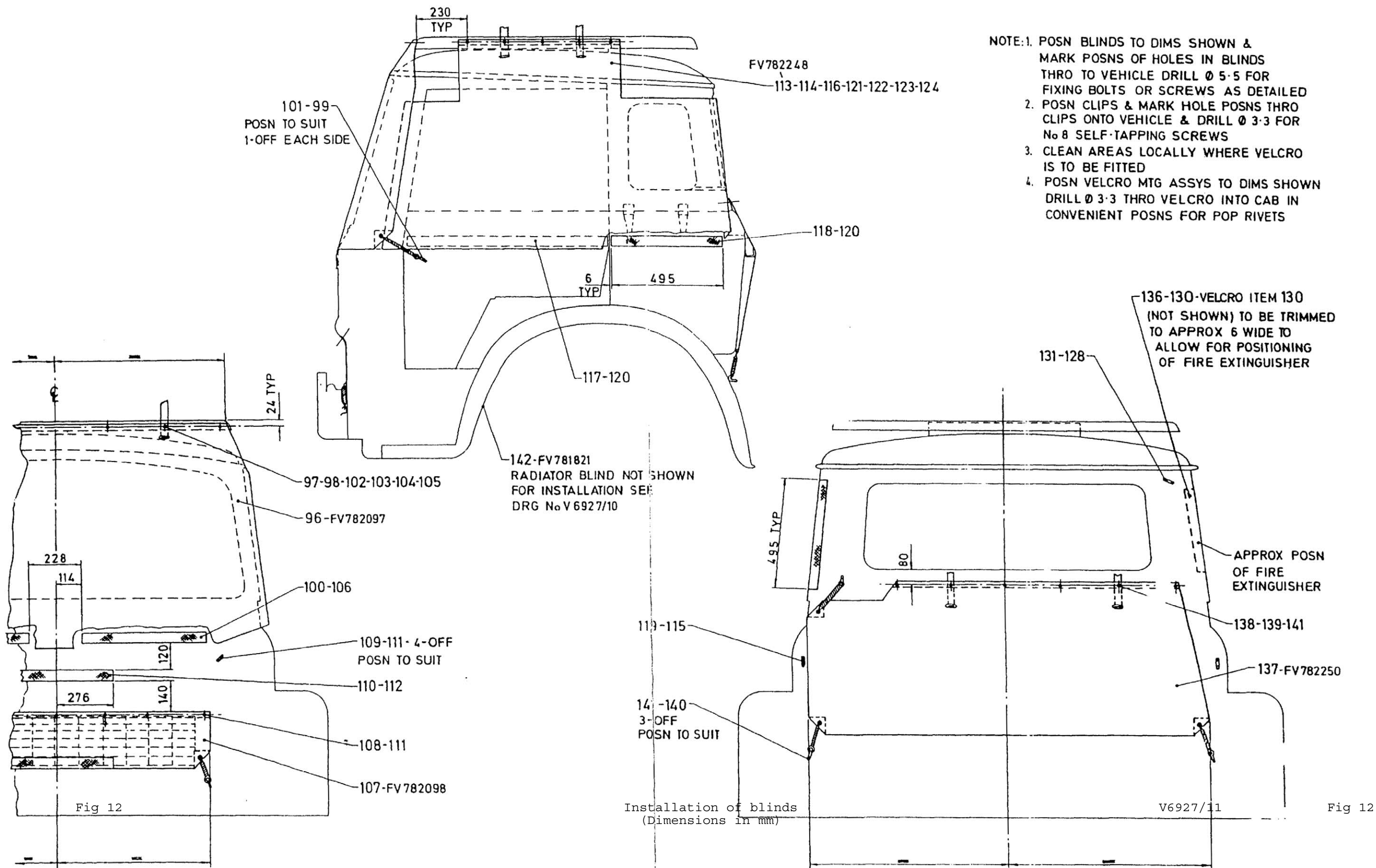




**NOTE**

1. POSN BLIND ITEM 142 TO DIMS SHOWN
MARK THRO HOLE POSNS IN BKTS ON
TO CHASSIS & DRILL 4-HOLES Ø 11
2. USE ITEM 146 FOR PACKING IF REQD





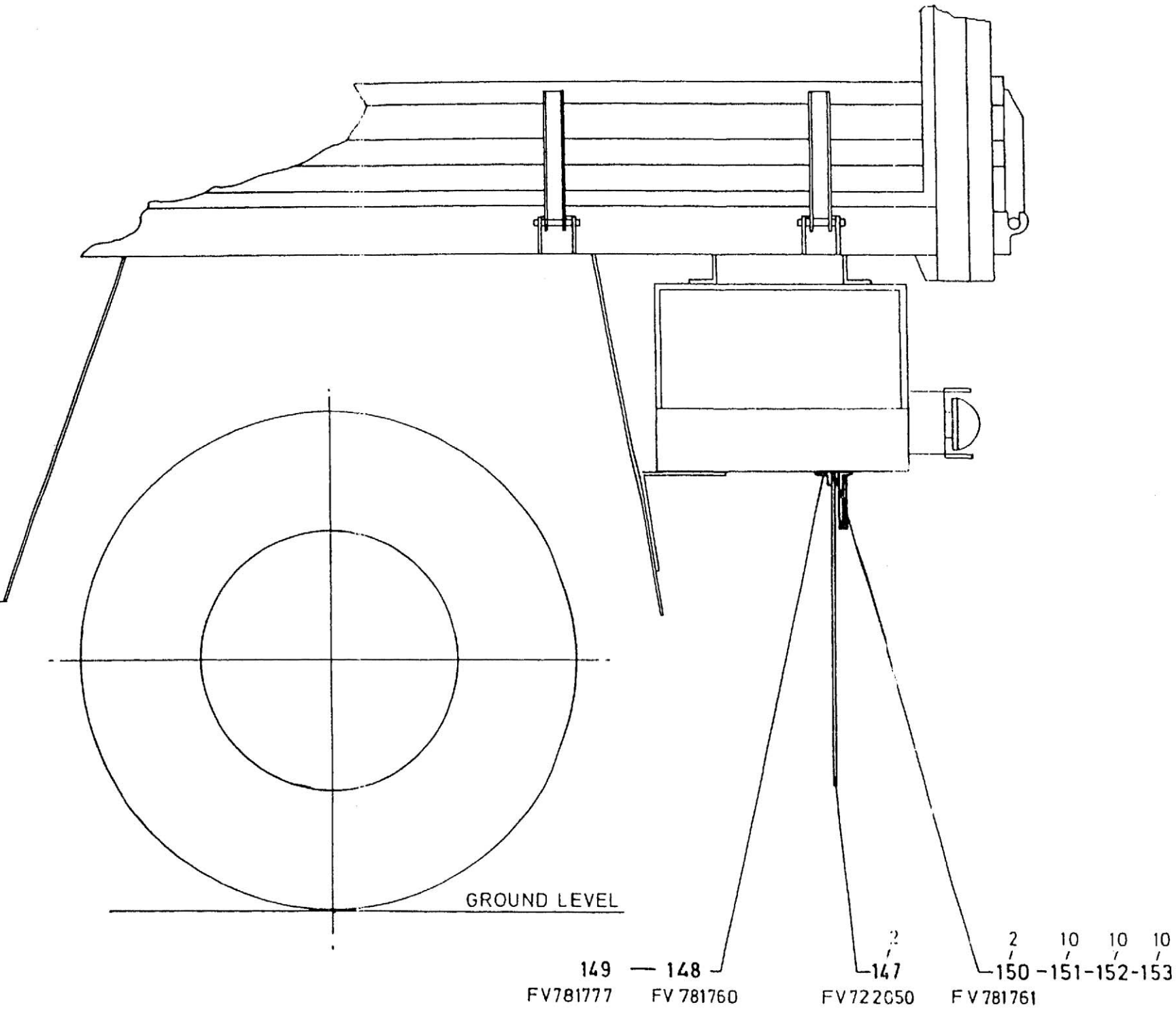
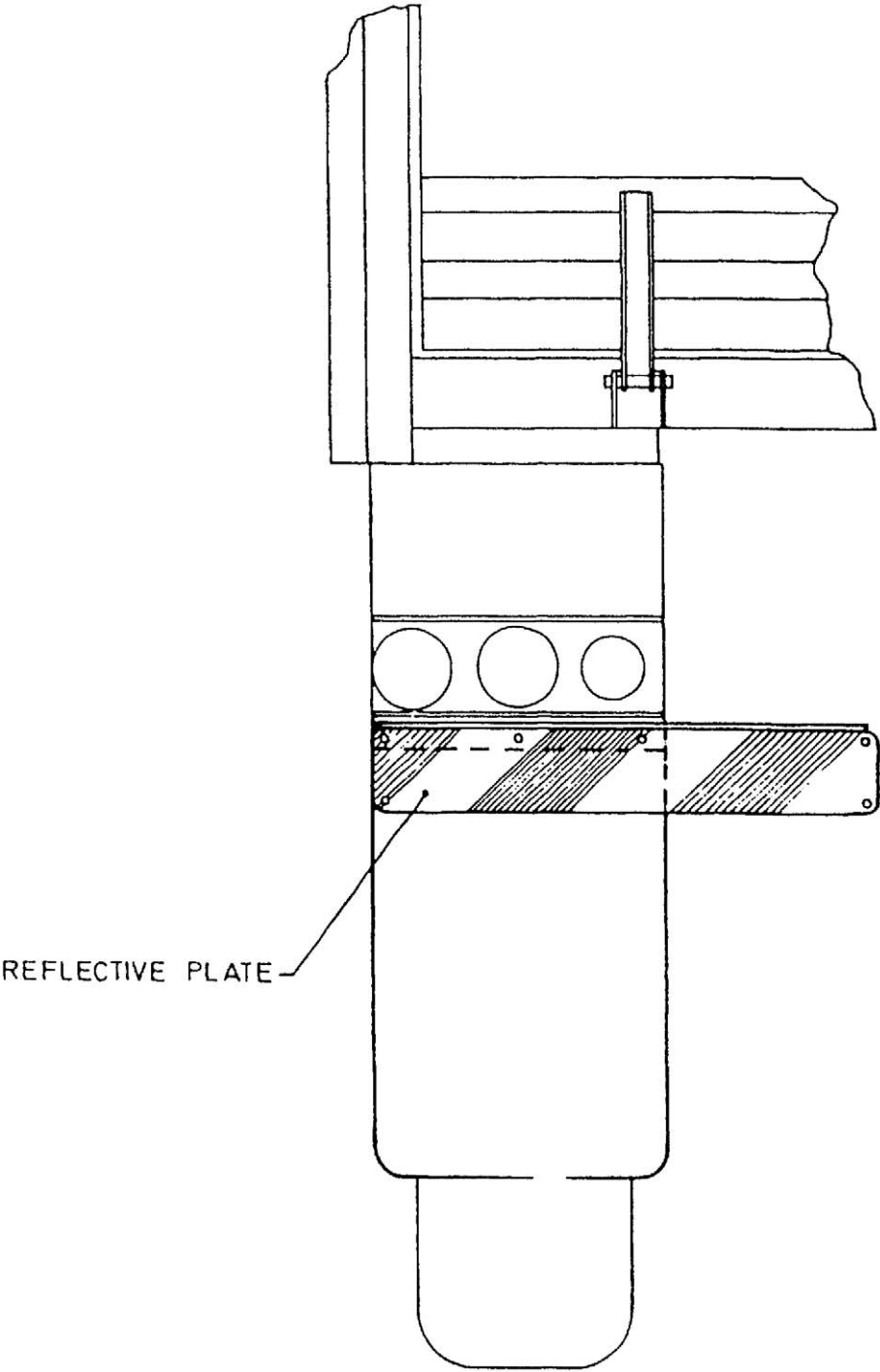


Fig 13
(VB/001)

Location of rear mudflaps



PASSENGER'S SIDE OF VEHICLE

V6927/2

Fig 13

TRUCK CARGO 4 TONNE 4 x 4 BEDFORD MJ (ALL VARIANTS)

MODIFICATION INSTRUCTION NO 3

Sponsor:
DGEME(A)

Publications Authority
Vehs & Wpns Br REME
Project No: 70912 (281)
File ref: 50736/37

AMENDMENT RECORD

Amdt	Incorporated by	Date		Amdt	Incorporated by	Date
1				4		
2				5		
3				6		

SUBJECT: "Durlock" bolts (MAE Approval No 12-1931)

INTRODUCTION

1 This instruction introduces "Durlock" headed bolts to the front and rear axles differential assemblies to overcome loosening of existing bolts in service. To be embodied only on overhaul or repair of differential assys.

1.1 Limitations on use of equipment. Nil.

APPLICABILITY

2 Differential case and cover assy Vauxhall Pt No 91039824 fitted to front and rear axle differential assy of Truck Cargo 4 Tonne Bedford MJ (all variants).

REASON FOR MODIFICATION

3 Code 3 - to improve reliability.

PRIORITY

4 Routine on overhaul or repair.

ESTIMATED TIME REQUIRED

5 Embodiment: 2 man-hours.

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This modification is to be implemented by Units authorized to carry out level 4 maintenance.

6.2 Associated modification instructions. Nil.

6.3 Modification plate strike action. NA.

Action required by:

7

7.1 Units authorized to carry out level 4 maintenance.

7.1.1 During overhaul, obtain the items listed in para 8 and carry out this modification.

7.1.2 Complete AF G1084A when reporting completion of the modification to Data Centre using the following FORWARD codes:

EQUIPMENT CODE - See para 2.

MODIFICATION CODE X00747

7.2 All recipients of this instruction. Add particulars to AESP ref 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded.

8.1.1 The following items are to be demanded quoting this instruction as authority for demand.

<u>Item No</u>	<u>COSA Section</u>	<u>NSN/Part No</u>	<u>Designation</u>	<u>Qty per eqpt</u>
1	7/BD	5306-99-785-6847	Bolt, hex hd, "Durlock" 9/16 in UNF (Vauxhall No 91107780)	12

8.2 Stores to be removed and reduced to scrap

2	7/BD	5306-99-788-1612	Bolt (Vauxhall Pt No 91070449)	12
3	7/BD	5310-99-139-5241	Washer (Vauxhall Pt No 91008382)	12

8.3 Items/stores to be modified

4			Differential case and cover assy. (Vauxhall Pt No 91039824) front and rear axle.	1
---	--	--	--	---

Sequence of operations

9 Carry out the modification as follows:

Note ...

The item numbers of para 8 are used as references throughout this instruction.

9.1 During repair or overhaul of front and/or rear axle differential assembly remove and discard the existing twelve bolts and washers (item 2 and 3) securing hypoid gear to case and cover assy (item 4).

9.2 Modify cover assembly by increasing spotface diameter of bolt holes from 28.5 mm to 31 mm dia.

9.3 Rebuild differential assembly using replacement bolts (item 1) torqued to 220 lbf ft (300 Nm).

Testing after embodiment

10 Nil.

EFFECT ON WEIGHT

11 Negligible.

PUBLICATION AMENDMENTS

Note ...

Necessary amendment(s) will be issued separately.

12 Nil.

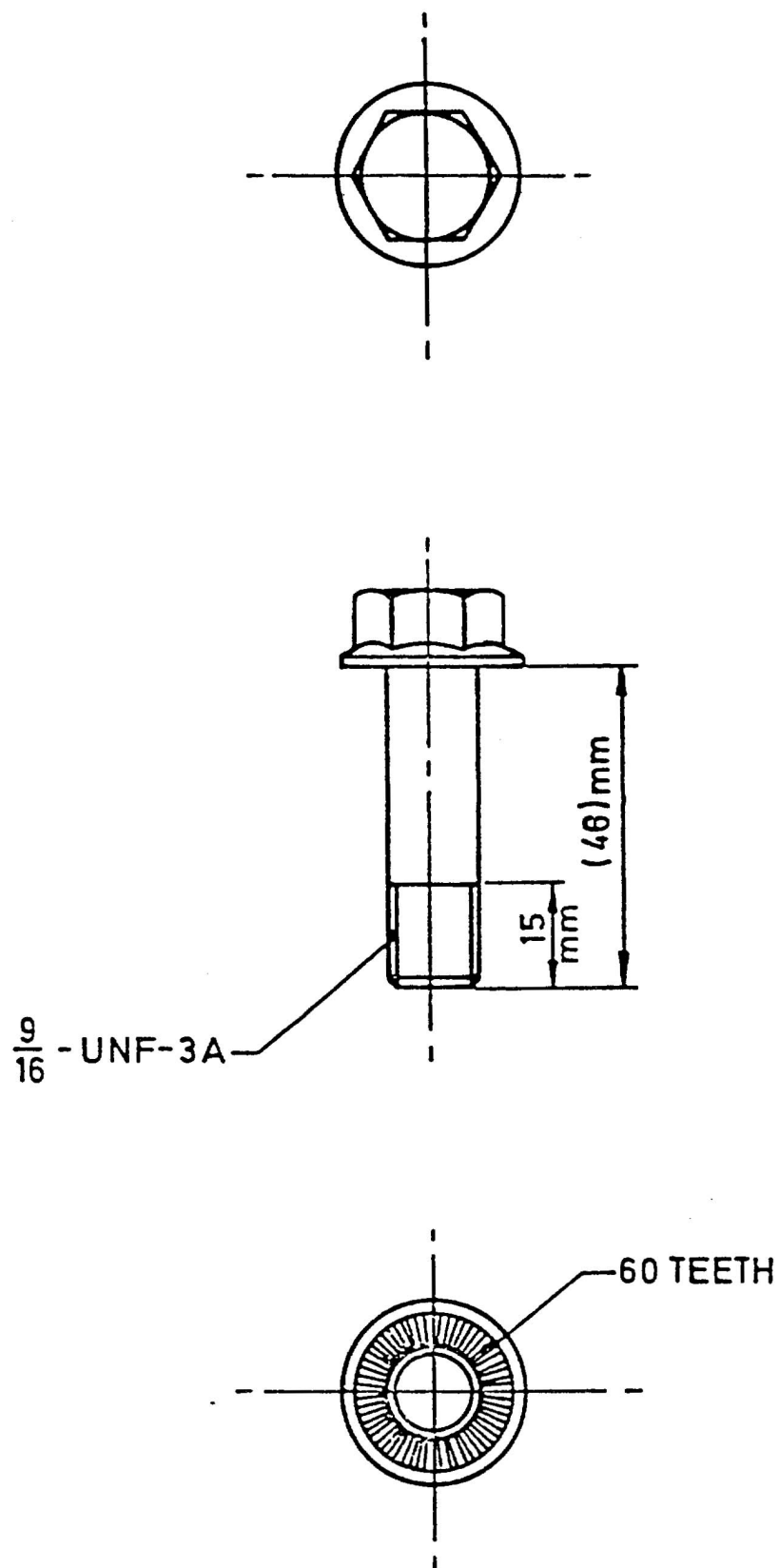


Fig 1 Bolt hex hd - Durlock
(Dimensions in mm)

v6789/1

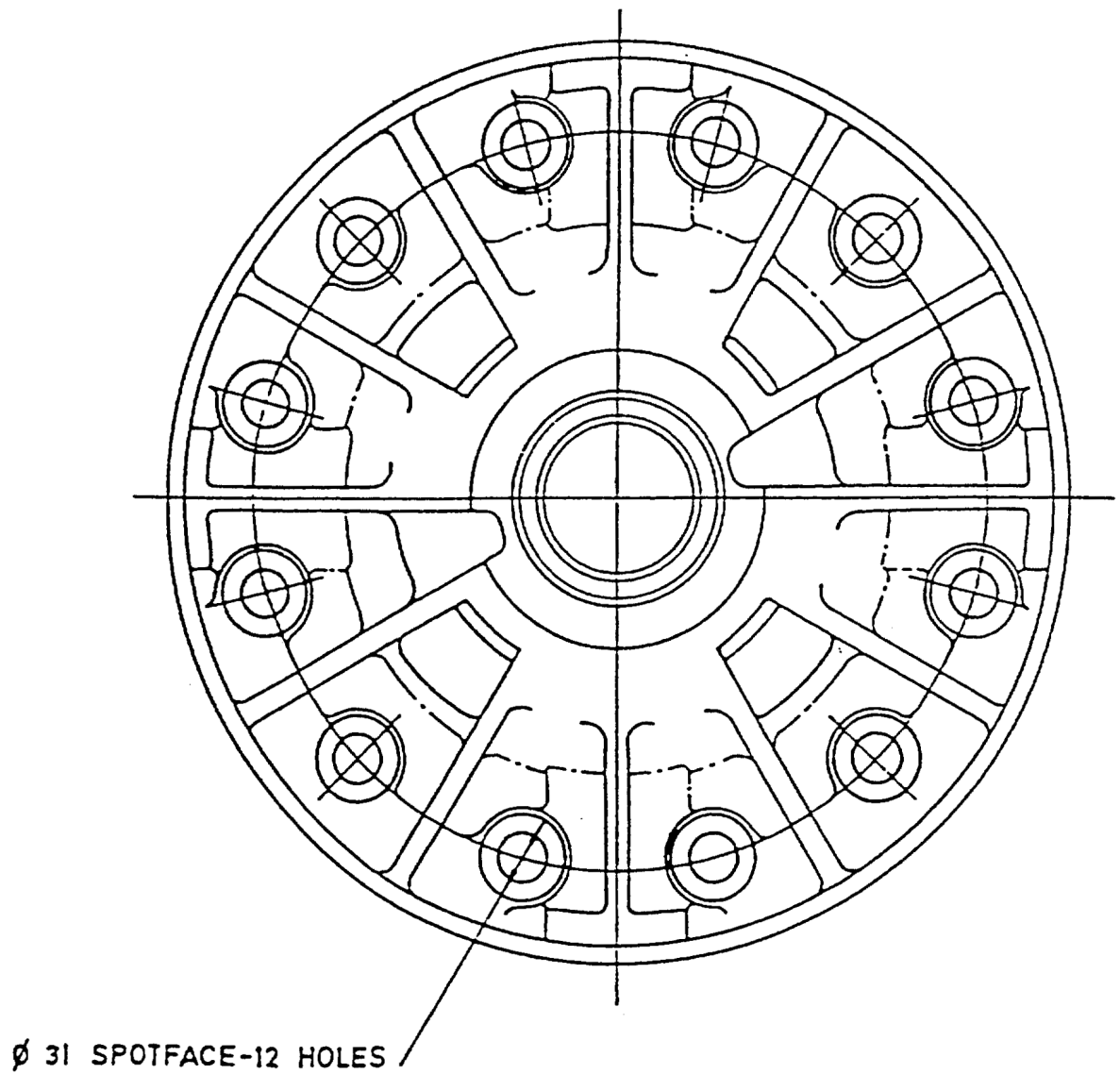


Fig 2 Machining of Diff Cover
(Dimensions in mm)

V6836/1

TRUCK CARGO 4 TONNE 4x4 BEDFORD MJ
(ALL VARIANTS)

MODIFICATION INSTRUCTION NO 4

Sponsor:
DGEME(A)
File ref: 50736/45

Publications Authority:
Vehs & Wpns Br REME
Project No: 71012 (122)

AMENDMENT RECORD

Amdt	Incorporated by	Date	Amdt	Incorporated by	Date
1			4		
2			5		
3			6		

SUBJECT: Brake anti-freezer
(12-1948)

INTRODUCTION

1 This instruction is the hard copy of a signal which introduced a check valve added inside alcohol evaporator, economiser valve repositioned to input side of evaporator and nylon piping to suit changes, to overcome the possibility of brake anti-freeze solution being drawn into engine manifold. Some subject equipments in service may already have been modified. If modified the three way connector will be found fitted to the underside of the freezer assembly body adjacent to the plastic reservoir and not in its original location, next to the methyl alcohol filler plug.

1.1 Limitations on use of equipment. Nil

APPLICABILITY

2 Truck Cargo, 4 tonne, 4x4, Bedford MJ (all variants) held by user units.

2.1 Unmodified stock, held in RAOC stores.

REASON FOR MODIFICATION

3 Code 6 - to overcome the possibility of brake anti-freeze solution being drawn into engine manifold.

PRIORITY

4 ARMY: Immediate
RAF: Class 2

ESTIMATED TIME REQUIRED

5 Embodiment: 0.5 man-hours

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This modification is to be implemented by:

ARMY - Units authorized to carry out levels 2, 3 and 4 maintenance.

RAF - Units on receipt of stores and Vehicle Depots before issue of vehicle.

6.2 Associated modification instructions. Nil

6.3 Modification plate strike action: NA

Action required by:

7

7.1 Units and establishments holding equipment

7.1.1 Examine vehicle documents to see if modification is applicable.

7.1.2 Examine vehicle to see if modification is embodied and where necessary demand the stores required.

7.1.3 ARMY - On receipt of stores, request REME to modify equipment.

7.1.4 ARMY - Record the modification Subject, AESP number and Army Modification Code in vehicle documents.

RAF - Record modification details on RAF Form 4870 and AF G1084A.

7.2 Army units authorized to carry out levels 2, 3 and 4 maintenance, and RAF units

7.2.1 ARMY - When requested by users or during overhaul, obtain the items listed in para 8 and carry out this modification.

RAF - On receipt of stores, embody the modification.

7.2.2 Record completion details of modification against appropriate entry in vehicle documents.

7.2.3 Complete AF G1084A when reporting completion of the modification to Data Centre using the following FORWARD codes:

ARMY: EQUIPMENT CODE: See para 2
MODIFICATION CODE: NN 0000

RAF: MODIFICATION CODE: AFC 228

7.3 All recipients of this instruction. Add particulars to AESP 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded

8.1.1 The following modification set is to be demanded quoting this instruction as authority for demand, and

8.1.2 Registration number of vehicle for equipment held by user units.

8.1.3 Registration number of vehicle for unmodified stock held in RAOC stores.

<u>Item No</u>	<u>COSA Section</u>	<u>NSN/Part No</u>	<u>Designation</u>	<u>Qty per veh</u>
A	7BD	2530-99-839-5162	Mod set: Brake anti-freeze comprising:	1
1		91113346	Pipe and valve assy	(1)
2		91113347	Eccentric adaptor	(1)
3		7171838	Pipe nylon	(1)
4		6336891	Sleeve nut	(1)
5		120488	Olive	(1)
6		91113348	Edge finisher	(1)

8.2 Stores to be removed and reduced to scrap

7	2685772	Pipe nylon	1
8	91028806	Pipe nylon	1

Sequence of operations

9 Carry out the modification as follows:

Note 1 ...

The item numbers of para 8 are used as references throughout this instruction.

Note 2 ...

Refer to Fig 1 throughout this instruction.

9.1 Disconnect pipes and withdraw brake anti-freeze assembly.

9.2 Remove plastic bottle and replace pick up pipe (item 8) with new pipe and non-return valve assembly (item 1).

9.3 Remove economy valve (A) from top of anti-freezer head. Remove pipe union (B) from underside of head and install it into the top port originally occupied by the economy valve.

9.4 Install eccentric union (item 2) to port in underside of anti-freezer head and tighten to ensure its threaded port is furthest away from bottle. Screw economy valve (A) into eccentric union, when tightened its side port must be parallel to head mounting face and pointing towards engine when anti-freezer is installed.

9.5 Install anti-freezer head to vehicle.

9.6 Disconnect short pipe (C) from three-way connector (D), transpose and reconnect shaped end of pipe to top port of three-way connector and connect other end of pipe into lower port of economy valve.

9.7 Connect pipe (E) from compressor intake pipe, to the side port of economy valve.

9.8 Disconnect and discard pipe from intake port to compressor (item 7). Install new pipe (item 3) and connect to compressor using a new sleeve nut (item 4). Connect other end of pipe to union on top of anti-freezer head with existing nut and new olive (item 5).

9.9 Route pipes clear of exhaust and secure with original clips.

9.10 Install edge protector (item 6) to box section of cab in the area of pipes.

9.11 Install anti-freezer plastic bottle ensuring seal is correctly seated and secure with clip.

Testing after embodiment

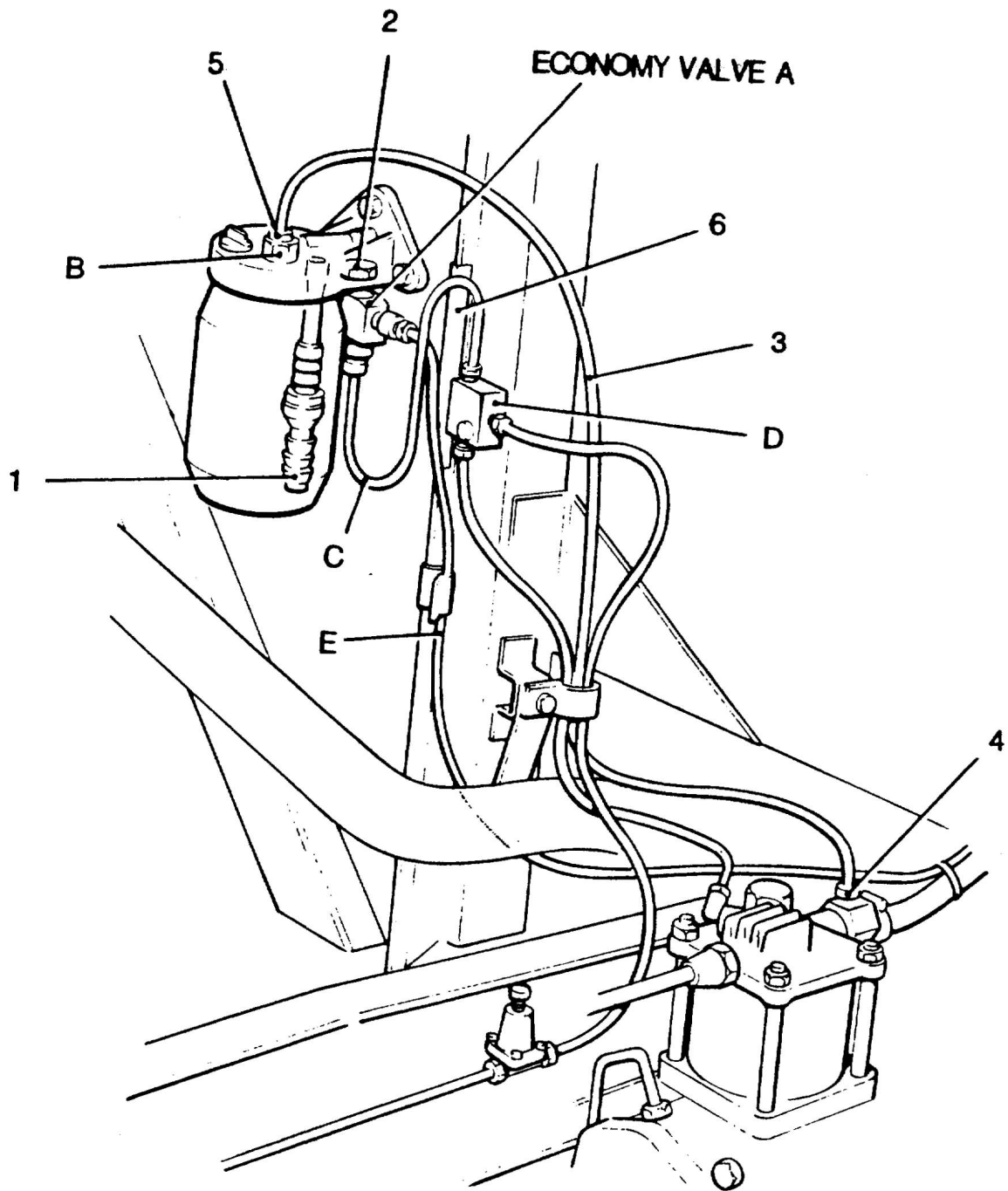
10 Nil

EFFECT ON WEIGHT

11 Negligible

PUBLICATION AMENDMENTS

12 Nil



v7042

Fig 1 Modified brake anti-freezer

TRUCK, CARGO, 4 TONNE, 4x4, BEDFORD MJ
ALL VARIANTS

MODIFICATION INSTRUCTION No 5
(Completely revised)

Amdt Instrs

Remove Pages 1-6 dated Mar 85.

Insert Pages 1-6 dated May 90.

Sponsor:
DGEME(A)

Publications Authority:
Vehs & wpns Br REME
Project No: 71511(60)
File ref: 0736/43

AMENDMENT RECORD

Amdt	Incorporated by	Date	Amdt	Incorporated by	Date
1			4		
2			5		
3			6		

SUBJECT: Tachometer Drive
(MAE 12-1958)

INTRODUCTION

1 A new design tachometer drive to prevent oil passing through the drive and filling the tachometer has been introduced from engine number 6544831, the following action to be taken.

1.1 On vehicles fitted with Power Take Off (PTO) at the earliest opportunity the revised drive is to be fitted.

1.2 On vehicles without PTO when failure occurs the tachometer and drive is to be removed and the drive aperture blanked.

this instruction provides all the necessary details.

1.3 Limitations on use of equipment. NIL

APPLICABILITY

2 Truck, Cargo, 4 Tonne, 4x4, Bedford MJ, all variants fitted with a tachometer held by user units.

2.1 Unmodified stock, held in RAOC and technical stores.

REASON FOR MODIFICATION

3 Code 6 - to improve sealing.

PRIORITY

4 ARMY: Routine
RAF: Class 3

ESTIMATED TIME REQUIRED

5 Embodiment: 1 man-hour on vehicles equipped with PTO
Embodiment: 3 man-hours on vehicles without PTO

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This modification is to be implemented by:

ARMY - Units authorised to carry out levels 2, 3 and 4 maintenance.

RAF - Units not later than the next schedule maintenance and Vehicle Depots before issue of vehicle.

6.2 Associated modification instructions: Nil

6.3 Modification plate strike action: NA

Action required by:

7

7.1 Units and establishments holding equipment

7.1.1 Examine vehicle documents to see if modification is applicable.

7.1.2 ARMY - Examine vehicle to if modification is embodied and where necessary units with 1st Line REME Support demand the stores required.

RAF - Examine vehicle to see if modification is embodied and where necessary demand the stores required.

7.1.3 ARMY - On receipt of stores, request REME to modify equipment.

7.1.4 ARMY - Record the modification Subject, AESP number and Army Modification Code in vehicle documents.

RAF - Record modification details on RAF Form 4870 and AF G1084A.

7.2 Army units authorised to carry out levels 2, 3 and 4 maintenance, and RAF units

7.2.1 ARMY - When requested by users or during overhaul of vehicles on charge without REME 1st Line Support, obtain the items listed in Para 8 and carry out this modification.

RAF - On receipt of stores, embody the modification.

7.2.2 Record completion details of modification against appropriate entry in vehicle documents.

7.2.3 Complete AF G1084A when reporting completion of the modification to Data Centre using the following FORWARD codes:

ARMY: EQUIPMENT CODE - See para 2
MODIFICATION CODE - NN 0000

RAF: MODIFICATION CODE AFC 227

7.3 All recipients of this instruction. Add particulars to AESP ref 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded

8.1.1 The following items and modification set are to be demanded quoting this instruction as authority for demand, and

8.1.2 Registration number and EAC of vehicle for equipment held by user units.

8.1.3 Registration number of vehicle and EAC for unmodified stock held in RAOC and technical stores.

<u>Item No</u>	<u>COSA Section</u>	<u>NSN/Part No</u>	<u>Designation</u>	<u>Qty per eqpt</u>
A	7BD	6680-99-839-5157	Mod set: comprising:	1
1	7BD	6680-99-792-3331	Tachometer drive assy	(1)
2	8 RETX	2815-99-835-4188	Clip	(1)
3	G1	5310-99-977-7351	washer spacer	(1)
4	G1	5305-99-941-6685	Bolt assy	(1)
5	G1	5310-99-941-6654	washer lock	(1)
6	7BD	5340-99-819-4751	Cup plug	1

8.2 Stores or suitable equivalent to be obtained locally

7	H1	8030-99-225-2103	Sealing compound	As reqd
---	----	------------------	------------------	---------

8.3 Stores to be removed and returned to RAOC/reduced to scrap

8		6347963	Housing, tachometer	1
9		6346245	Shaft assy, housing	1
10		120706	Bolt Hex Hd	1
11		120380	washer lock	1

<u>Item</u> <u>No</u>	<u>COSA</u> <u>Section</u>	<u>NSN/Part No</u>	<u>Designation</u>	<u>Qty</u> <u>per eqpt</u>
12		9902800	Expansion plug assy	1
13		9903333	Sealer assy cable, tacho drive	1
14			Cable, tacho drive	1
15		7979036	Tachometer	1
16		8855475	Bracket, tacho mounting	1
17		7154356	Bulb and holder	1

Sequence of operations

Note ...

The item numbers of Para 8 are used as references throughout this instruction.

9 Carry out the modification as follows:

9.1 Unscrew and disconnect drive cable from tachometer drive housing (item 8).

9.2 Remove and discard existing tachometer drive housing (item 8), shaft assembly, housing tachometer drive (item 9) and associated fasteners (items 10-13).

9.3 On vehicles equipped with PTO. Refer to Fig 1 and fit new tachometer drive assembly (item 1) with associated fasteners (items 2-5).

9.4 Locate and screw on tachometer drive cable to new tachometer drive assembly (item 1).

9.5 On vehicles without PTO apply sealing compound (item 7) to cup plug (item 6) and using a suitable installation tool drive the plug into the tachometer drive aperture until flush with machined surface. Remove surplus sealing compound.

9.6 Remove and discard tachometer drive cable, tachometer, tachometer mounting bracket, bulb and holder (item 14-19) stow remaining cable to bulb holder safely.

Testing after embodiment

10 On vehicles with PTO check operation of tachometer.

EFFECT ON WEIGHT

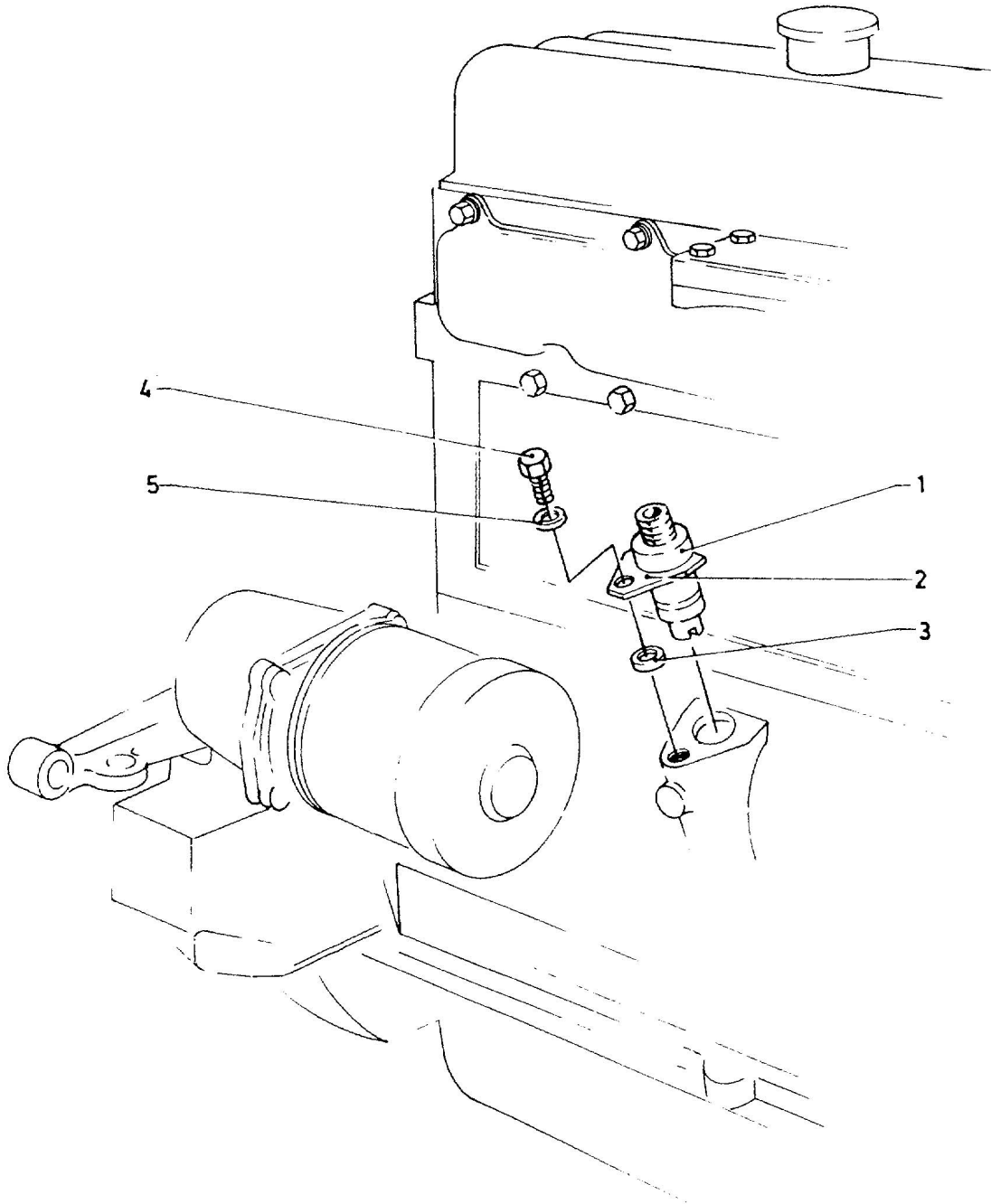
11 Negligible.

PUBLICATION AMENDMENTS

Note ...

Necessary amendment(s) will be issued separately.

12 AESP operator information Cat 201 will be amended.



v7046/1

Fig 1 Tachometer drive

TRUCK CARGO 4 TONNE 4x4 BEDFORD MJ (ALL VARIANTS)

MODIFICATION INSTRUCTION NO 6

Sponsor:
DGEME(A)
File ref: 50736/48

Publications Authority:
Vehs & Wpns Branch REME
Project No: 71012(25)

AMENDMENT RECORD

Amdt	Incorporated by	Date	Amdt	Incorporated by	Date
1			4		
2			5		
3			6		

SUBJECT: Label - crane instruction
(MAE 12-1811)

INTRODUCTION

1 This instruction introduces a new label-crane instruction with revised wording to ensure correct use of stabilizers.

1.1 Limitations on use of equipment: Nil

APPLICABILITY

2 Truck Cargo, w/3 Tonne Crane, 4 Tonne 4x4 Bedford MJ (VAC's 2037-3102, 2037-8100, 2038-3100, 2038-8100, 2039-3100, 2041-3100, 2041-8100, 2042-3100) held by user units.

2.1 Unmodified stock held in RAOC stores.

REASON FOR MODIFICATION

3 Code 2 - to improve operational performance.

PRIORITY

4 ARMY: Routine
RAF: Class 3

ESTIMATED TIME REQUIRED

5 Embodiment: 1 man-hour

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This modification is to be implemented by:

ARMY - Units authorized to carry out levels 2, 3 and 4 maintenance.

RAF - Units not later than the next scheduled servicing and vehicle Depots before issue of vehicle.

6.2 Associated modification instructions. Nil.

6.3 Modification plate strike action. NA.

Action required by:

7

7.1 Units and establishments holding equipment

7.1.1 Examine vehicle documents to see if modification is applicable.

7.1.2 Examine vehicle to see if modification is embodied and where necessary demand the stores required.

7.1.3 ARMY - On receipt of stores, request REME to modify equipment.

7.1.4 ARMY - Record the modification Subject, AESP number and Army Modification Code in vehicle documents.

RAF - Record modification details on RAF Form 4870 and AF G1084A.

7.2 Army Units authorized to carry out levels 2, 3 and 4 maintenance, and RAF units

7.2.1 ARMY - When requested by users or during overhaul, obtain the items listed in para 8 and carry out this modification.

RAF - On receipt of stores, embody the modification.

7.2.2 Record completion details of modification against appropriate entry in vehicle documents.

7.2.3 Complete AF G1084A when reporting completion of the modification to Data Centre using the following FORWARD codes:

ARMY: EQUIPMENT CODE - See para 2

MODIFICATION CODE NN0000

RAF: MODIFICATION CODE AFC 229

7.3 All recipients of this instruction. Add particulars to AESP 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded

8.1.1 The following item is to be demanded quoting this instruction as authority for demand, and

8.1.2 Registration number of vehicle for equipment held by user units.

8.1.3 Registration number of vehicle for unmodified stock held in RAOC stores.

Item No	COSA Section	NSN/Part No	Designation	Qty per eqpt
1	7BD	7690-99-839-5120	Label - crane stabilizer instruction (Pt No 91116459)	1

8.2 Stores to be removed and reduced to scrap

2	Not known		Label - crane stabilizer instruction	1
---	-----------	--	---	---

Sequence of operations

9 Carry out the modification as follows:

Note ...

The item numbers of para 8 are used as reference through this instruction.

9.1 Remove and discard existing label-crane stabilizer instruction (item 2) located as shown in Fig 1.

9.2 Fit new label-crane stabilizer instruction (item 1) in same location using suitable self-tapping screws.

Testing after embodiment

10 Nil.

EFFECT ON WEIGHT

11 Negligible.

PUBLICATION AMENDMENTS

12 Nil.

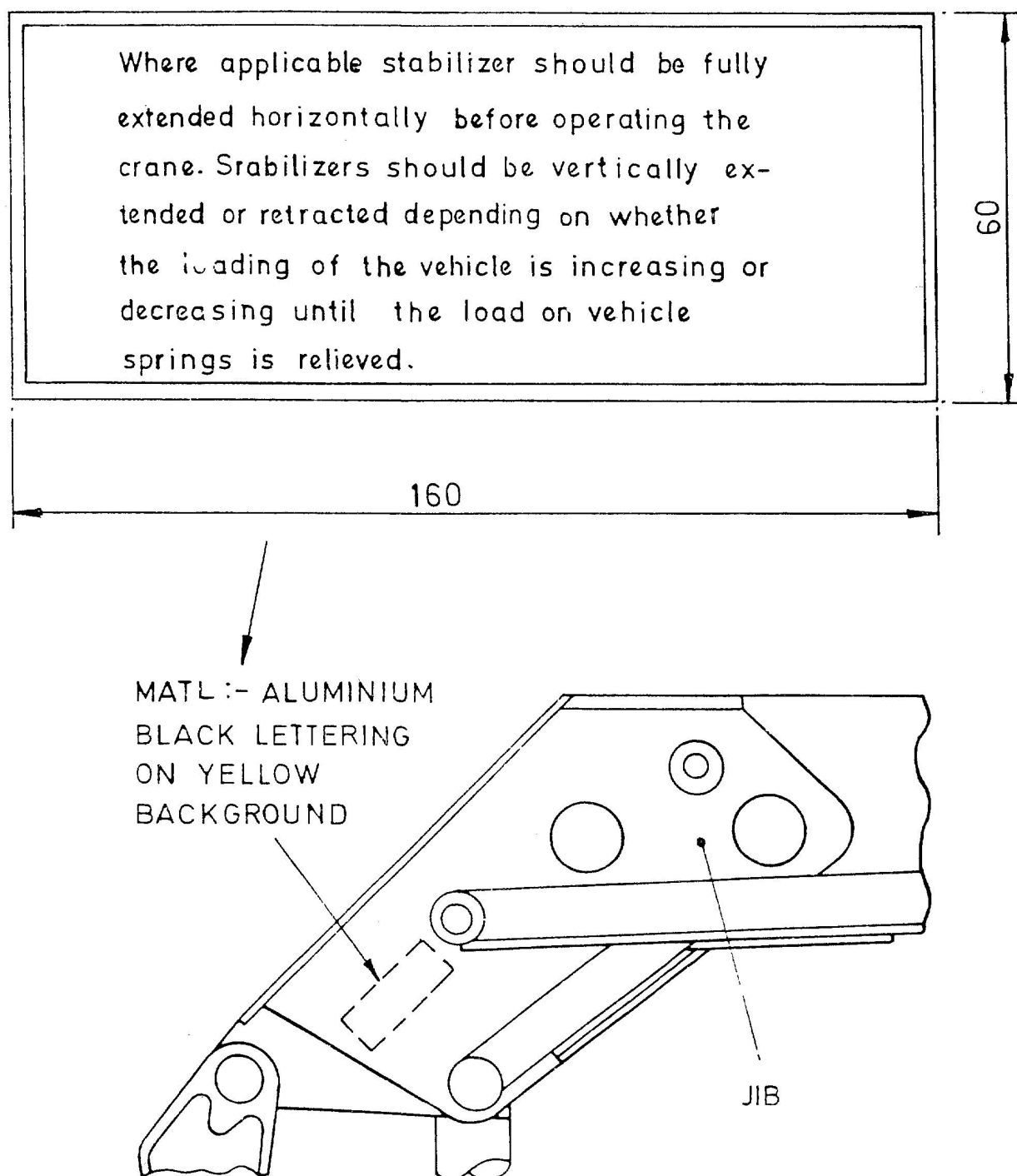


Fig 1 Location of label-crane stabilizer instruction

v 7114/1

TRUCK 4 TONNE 4X4 BEDFORD MJ

(ALL VARIANTS)

MODIFICATION INSTRUCTION NO 7

Sponsor:
DGEME(A)
File ref: 50736/50

Publications Authority
Vehs & wpns Br REME
Project No: 71012(47)

AMENDMENT RECORD

Amdt	Incorporated by	Date	Amdt	Incorporated by	Date
1			4		
2			5		
3			6		

SUBJECT: Propshaft grease nipples

Approval No 12-1963

INTRODUCTION

1 A recent change to the propellor shaft has introduced the relocation of the grease nipple from the side of the universal joint spider to central position. However, with some lubrication equipment the grease nipple can be inaccessible. If this is found, carry out this instruction.

1.1 Limitations on use of equipment. Nil

APPLICABILITY

2 Truck cargo, 4 tonne, 4x4 Bedford (all variants).

2.1 Held by user units.

2.2 Unmodified stock, held in RAOC stores.

REASON FOR MODIFICATION

3 Code 4 - to improve maintainability

PRIORITY

4 ARMY: Routine
RAF: Class 3

ESTIMATED TIME REQUIRED

5 Embodiment: 1 man-hour

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This modification is to be implemented by:

ARMY - Units authorized to carry out levels 2, 3 and 4 maintenance.

RAF - Units when found necessary

6.2 Associated modification instructions. Nil

6.3 Modification plate strike action: NA

Action required by:

7

7.1 Units and establishments holding equipment

7.1.1 Examine vehicle documents to see if modification is applicable.

7.1.2 Examine vehicle to see if modification is embodied and where necessary demand the stores required.

7.1.3 ARMY - On receipt of stores, request REME to modify equipment.

7.1.4 ARMY - Record the modification Subject, AESP number and Army Modification Code in vehicle documents.

RAF - Record modification details on RAF Form 4870 and AF G1084A.

7.2 Army units authorized to carry out levels 2, 3 and 4 maintenance, and RAF units

7.2.1 ARMY - When requested by users or during overhaul, obtain the items listed in para 8 and carry out this modification.

7.2.2 Record completion detail of modification against appropriate entry in vehicle documents.

7.2.3 Complete AF G1084A when reporting completion of the modification to Data Centre using the following FORWARD codes:

ARMY: EQUIPMENT CODE - See para 2

MODIFICATION CODE NN0000

RAF: MODIFICATION CODE AFC 231

7.3 All recipients of this instruction. Add particulars to AESP
2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded.

8.1.1 The following modification set is to be demanded quoting this instruction as authority for demand, and

8.1.2 Registration number of vehicle for equipment held by user units.

8.1.3 Registration number of vehicle for unmodified stock held in RAOC and technical stores.

<u>Item No</u>	<u>COSA Section</u>	<u>NSN/Part No</u>	<u>Designation</u>	<u>Qty per veh As reqd</u>
A	7BD	4730-99-791-9503	Lubricating nipple Mod set: comprising:	
1		91059674	Grease nipple extended	(1)
2		91118892	90° nipple body	(1)

Note ...

This mod set contains enough parts to modify one universal joint demand mod sets as required up to a maximum of four per vehicle.

8.2 Stores to be removed and reduced to scrap

3	Grease nipple	1
---	---------------	---

Sequence of operations

9 Carry out the modification as follows:

Note ...

The item numbers of para 8 are used as references throughout this instruction.

9.1 Remove and discard existing grease nipple (item 3). See Fig 1.

9.2 Screw 90° nipple body (item 2) to the centre of the spider and tighten ensuring that the nipple hole is centred between yokes, then screw extended grease nipple (item 1) into the nipple body (item 2) and tighten. See Fig 2.

9.3 Lubricate universal joint spider.

Testing after embodiment

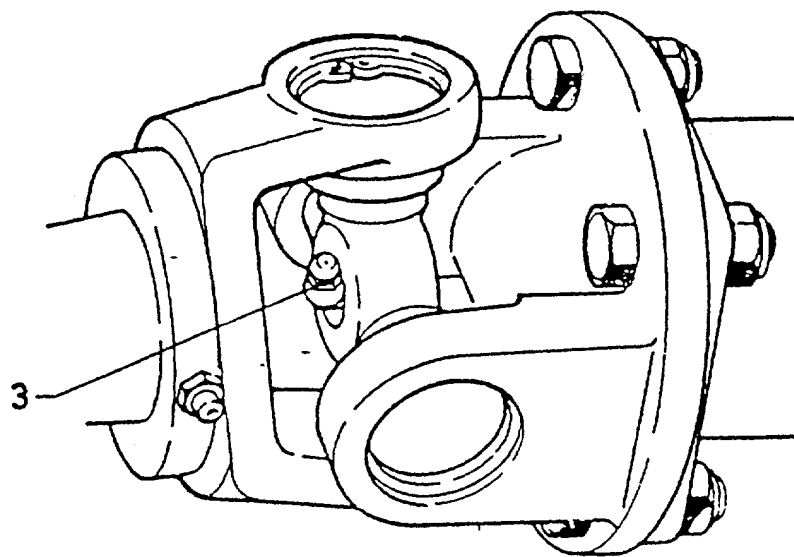
10 Nil

EFFECT ON WEIGHT

11 Negligible

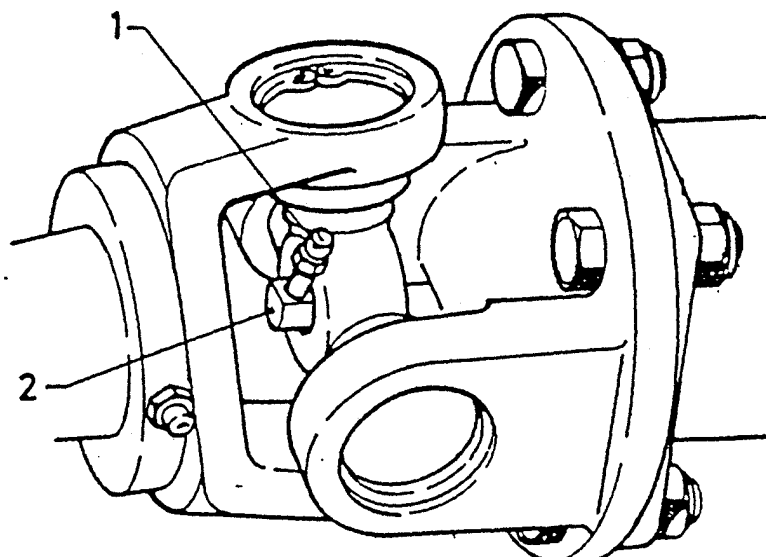
PUBLICATION AMENDMENTS

12 Nil



v7088/1

Fig 1 Unmodified Universal Joint



v7088/1

Fig 2 Modified Universal Joint

TRUCK CARGO 4 TONNE 4X4 BEDFORD MJ
(ALL VARIANTS)

MODIFICATION INSTRUCTION NO 8

Sponsor:
DGEME(A)
File ref: 50736/36

Publications Authority
Vehs & Wpns Br REME
Project No: 71012(50)

AMENDMENT RECORD

Amdt	Incorporated by	Date		Amdt	Incorporated by	Date
1				4		
2				5		
3				6		

SUBJECT: Hip ring retention

Approval No MAE 12-1928

INTRODUCTION

1 This instruction introduces a hip ring cover retention spring which is now crimped to its bracket to prevent spring ends opening under adverse conditions. It also introduces a material change to the button from high density white polythene to black polypropylene and new washer beneath button to improve location and retention of spring.

1.1 Limitations on use of equipment. NIL.

APPLICABILITY

2 Truck cargo, 4 tonne, 4x4 Bedford MJ (all variants)

2.1 Held by user units.

2.2 Unmodified stock, held in RAOC stores.

REASON FOR MODIFICATION

3 Code 1 - to improve safety

PRIORITY

4 ARMY: Immediate
RAF: Class 2

ESTIMATED TIME REQUIRED

5 Embodiment: 1 man-hours

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This modification is to be implemented by:

ARMY - Units authorized to carry out levels 2, 3 and 4 maintenance.

RAF - Units immediately on receipt of stores and vehicle Depots before issue of vehicle.

6.2 Associated modification instructions. Nil

6.3 Modification plate strike action: NA

Action required by:

7

7.1 Units and establishments holding equipment

7.1.1 Examine vehicle documents to see if modification is applicable.

7.1.2 Examine vehicle to see if modification is embodied and where necessary demand the stores required.

7.1.3 ARMY - On receipt of stores, request REME to modify equipment.

7.1.4 ARMY - Record the modification Subject, AESP number and Army Modification Code in vehicle documents

RAF - Record modification details on RAF Form 4870 and AF G1084A

7.2 Army units authorized to carry out levels 2, 3 and 4 maintenance, and RAF units

7.2.1 ARMY - When requested by users or during overhaul, obtain the items listed in para 8 and carry out this modification.

RAF - On receipt of stores, embody the modification.

7.2.2 Record completion details of modification against appropriate entry in vehicle documents.

7.2.3 Complete AF G1084A when reporting completion of the modification to Data Centre using the following FORWARD codes:

ARMY: EQUIPMENT CODE - See para 2
MODIFICATION CODE NN0000

RAF: MODIFICATION CODE AFC 233

7.3 All recipients of this instruction. Add particulars to AESP 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded.

8.1.1 The following modification set is to be demanded quoting this instruction as authority for demand, and

8.1.2 Registration number of vehicle for equipment held by user units.

8.1.3 Registration number of vehicle for unmodified stock held in RAOC stores.

<u>Item No</u>	<u>COSA Section</u>	<u>NSN/Part No</u>	<u>Designation</u>	<u>Qty per veh</u>
A	7BD	2510-99-839-4175	Mod set: Hip ring retention comprising:	1
1			Retainer assy, hip ring cover (Pt No 91103656)	(3)
2			Hook asy, hip ring retaining button, black (Pt No 91107914)	(3)
3			Washer M5 (Pt No 11017011)	(3)
4			Screw M5 x 30 (Pt No 11078931)	(3)

8.4 Stores to be removed and reduced to scrap

5	7BD	2510-99-747-8535	Spring pull assy, hip ring cover (Pt No 91051295)	3
6		Not codified	Bracket spring retainer (Pt No 91042777)	3
7	7BD	5340-99-747-8542	Hook assy, hip ring retaining button white (Pt No 6386656)	3

Sequence of operations

9 Carry out the modification as follows:

Note ...

The item number of para 8 are used as references throughout this instruction.

9.1 Disconnect spring pull assemblies (item 5) and unbolt spring retainer brackets (item 6) retaining fasteners. Discard items 5 and 6.

9.2 Remove and discard white hip ring retaining buttons (item 7) and fasteners.

9.3 Fit black hip ring retaining buttons (item 2) with washer (item 3) as a spacer in place of item 7 using screws (item 4).

9.4 Fit hip ring cover retainer assemblies (item 1) in place of items 5 and 6 using retained fasteners.

Testing after embodiment

10 Test security of hip ring cover.

EFFECT ON WEIGHT

11 Negligible.

PUBLICATION AMENDMENTS

12 Nil

TRUCK 4 TONNE 4x4 BEDFORD MJ (ALL VARIANTS)
MODIFICATION INSTRUCTION NO 9

Sponsor:
DGEME(A)
File ref: 50736/44

Publications Authority
Vehs & Wpns Br REME
Project No: 71012(161)

AMENDMENT RECORD

Amdt	Incorporated by	Date		Amdt	Incorporated by	Date
1				4		
2				5		
3				6		

SUBJECT: Compressor oil inlet pipe
(12-1956)

INTRODUCTION

1 On production to obviate oil leaks between the compressor and oil inlet pipe the existing threaded sleeve has been replaced with an adaptor with olive and nut. When an oil leak is found between the compressor and oil inlet pipe this instruction is to be carried out.

1.1 Limitations on use of equipment. NIL

APPLICABILITY

2 Truck cargo 4 tonne 4x4 Bedford MJ (all variants) held by user units.

REASON FOR MODIFICATION

3 Code 6 - to obviate oil leaks

PRIORITY

4 ARMY: Routine
RAF: Class 3

ESTIMATED TIME REQUIRED

5 Embodiment: 1 man-hour

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This modification is to be implemented by:

ARMY - Units authorized to carry out levels 2, 3 and 4 maintenance.

RAF - Units when necessary.

6.2 Associated modification instructions. Nil

6.3 Modification plate strike action: NA

Action required by:

7

7.1 Units and establishments holding equipment

7.1.1 Examine vehicle documents to see if modification is applicable.

7.1.2 Examine vehicle to see if modification is embodied and where necessary demand the stores required.

7.1.3 ARMY - On receipt of stores, request REME to modify equipment.

7.1.4 ARMY - Record the modification Subject, AESP number and Army Modification Code in vehicle documents.

RAF - Record modification details on RAF Form 4870 and AF G1084A

7.2 Army units authorized to carry out levels 2, 3 and 4 maintenance, and RAF units

7.2.1 ARMY - When requested by users or during overhaul, obtain the items listed in para 8 and carry out this modification.

RAF - On receipt of stores, embody the modification.

7.2.2 Record completion details of modification against appropriate entry in vehicle documents.

7.2.3 Complete AF G1084A when reporting completion of the modification to Data Centre using the following FORWARD codes:

ARMY: EQUIPMENT CODE - See para 2
MODIFICATION CODE NN0000

RAF: MODIFICATION CODE AFC 236

7.3 All recipients of this instruction. Add particulars to AESP 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded

8.1.1 The following items are to be demanded quoting this instruction as authority for demand, and

8.1.2 Registration number of vehicle for equipment held by user units.

<u>Item No</u>	<u>COSA Section</u>	<u>NSN/Part No</u>	<u>Designation</u>	<u>Qty per veh</u>
1	7BD	4730-99-788-7090	Adaptor assy (Pt No 91113959)	1
2	7BD	4730-99-833-2453	Sleeve ball assy (Pt No 114628)	1
3	7BD	4730-99-811-6671	Nut ball sleeve tube (Pt No 190863)	1
4	7BD	4730-99-874-0706	Sleeve threaded assy (Pt No 442140)	1

8.2 Stores or suitable equivalent to be obtained locally

5	H1	8030-99-225-0249	Sealant, Loctite 572	As reqd
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8.3 Stores to be removed and reduced to scrap

6	7BD	4730-99-874-0706	Sleeve, threaded assy (Pt No 442140)	2
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Sequence of operations

9 Carry out the modification as follows:

Notes ...

(1) The item numbers of para 8 are used as references throughout this instruction.

(2) Refer to Fig 1 throughout this instruction.

9.1 Remove compressor oil inlet pipe.

9.2 Remove and discard threaded sleeves (item 6) from ends of compressor oil inlet pipe.

9.3 Fit adaptor assembly (item 1) to compressor using sealant (item 5) on threads between adaptor assembly (item 1) and compressor.

9.4 Fit sleeve ball assembly and nut ball sleeve tube (items 2 and 3) onto compressor end of oil inlet pipe and threaded sleeve assembly (item 4) to the other end of oil inlet pipe.

9.5 Refit compressor oil inlet pipe securing with fittings (items 2, 3 and 4).

9.6 Run engine and check for leaks.

Testing after embodiment

10 Nil.

EFFECT ON WEIGHT

11 Negligible.

PUBLICATION AMENDMENTS

12 Nil.

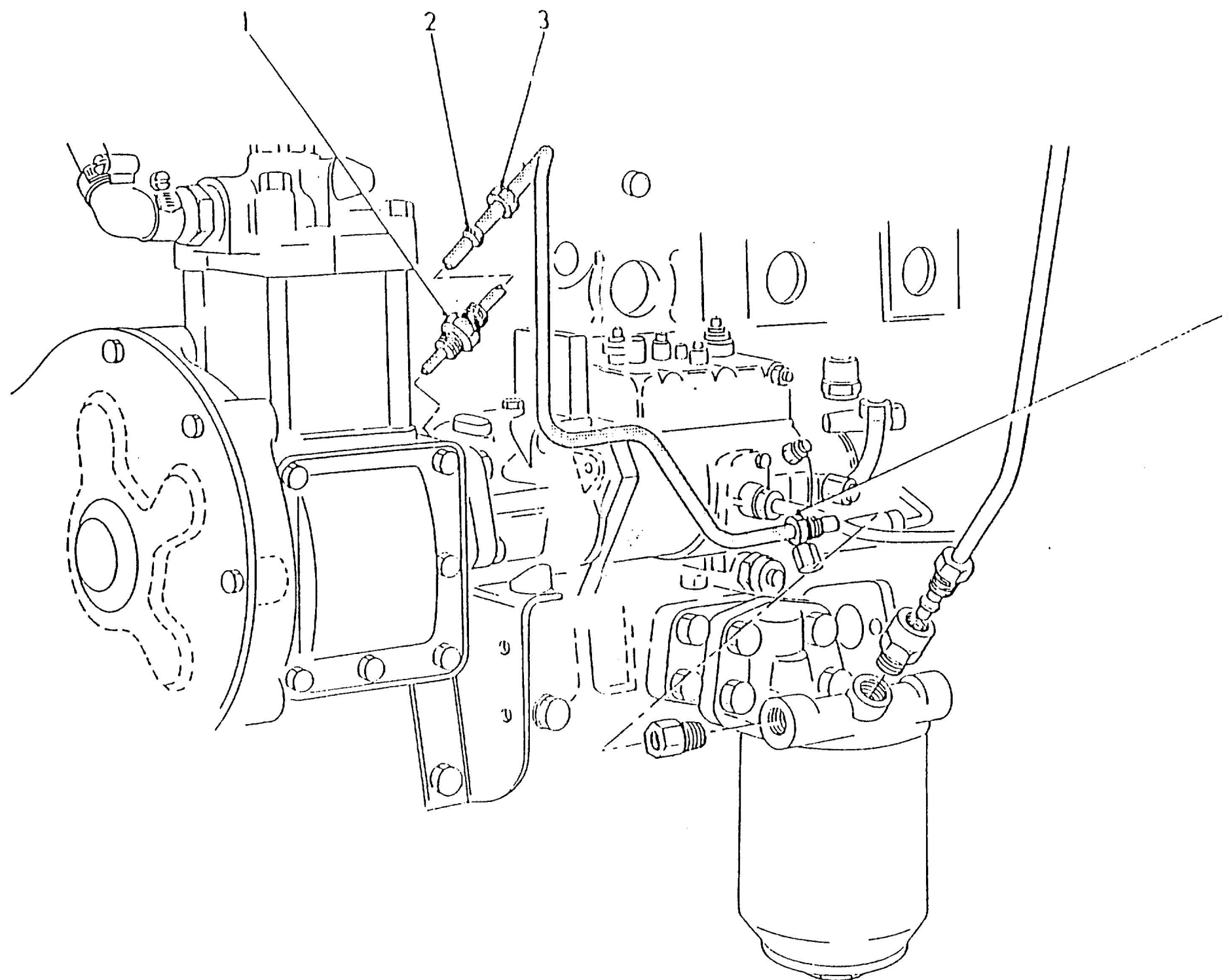


Fig 1

Compressor oil inlet pipe

V 7268/1
Fig 1

TRUCK 4 TONNE, 4X4 BEDFORD MJ
(ALL VARIANTS)

MODIFICATION INSTRUCTION NO 10

Sponsor:
DGEME(A)
File ref: VB/50736/49

Publications Authority
Vehs & Wpns Br REME
Project No: 71012(232)

AMENDMENT RECORD

Amdt	Incorporated by	Date	Amdt	Incorporated by	Date
1			4		
2			5		
3			6		

SUBJECT: Engine oil dipstick w/seal
(MAE Approval No 12-1936/2)

INTRODUCTION

1 The manufacturer has introduced a modified type of dipstick assembly. This is fitted with an 'O' ring seal to prevent oil splash from the dipstick tube. This modification instruction applies only to those vehicles as defined in para 2 below and which have an oil leak from the dipstick tube.

1.1 Limitations on use of equipment. NIL

APPLICABILITY

2 Truck 4 Tonne 4x4 Bedford MJ (all variants) held by user units.

REASON FOR MODIFICATION

3 Code 6 - to prevent oil splash from dipstick tube.

PRIORITY

4 ARMY: Routine
RAF: Class 3

ESTIMATED TIME REQUIRED

5 Embodiment: 0.5 man-hours

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This modification is to be implemented by:

ARMY - Units authorized to carry out levels 2, 3 and 4 maintenance as and when required.

RAF - Units, as and when required.

6.2 Associated modification instructions. Nil

6.3 Modification plate strike action: NA

Action required by:

7

7.1 Units and establishments holding equipment

7.1.1 Examine vehicle documents to see if modification is applicable.

7.1.2 Examine vehicle or modification record plate to see if modification is embodied and where necessary demand the stores required.

7.1.3 ARMY - On receipt of stores, request REME to modify equipment.

7.1.4 ARMY - Record the modification Subject, AESP number and Army Modification Code in vehicle documents.

RAF - Record modification details on RAF Form 4870 and AF G1084A.

7.2 Army units authorized to carry out levels 2, 3 and 4 maintenance, and RAF units

7.2.1 ARMY - When requested by users or during overhaul, obtain the items listed in para 8 and carry out this modification.

RAF - On receipt of stores, embody the modification.

7.2.2 Record completion details of modification against appropriate entry in vehicle documents.

7.2.3 Complete AF G1084A when reporting completion of the modification to Data Centre using the following FORWARD codes:

ARMY: EQUIPMENT CODE - See para 2
MODIFICATION CODE NN0000

RAF: MODIFICATION CODE AFC 240

7.3 All recipients of this instruction. Add particulars to AESP 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded.

8.1.1 The following modification set is to be demanded quoting this instruction as authority for demand, and

8.1.2 Registration number of vehicle for equipment held by user units.

<u>Item No</u>	<u>COSA Section</u>	<u>NSN/Part No</u>	<u>Designation</u>	<u>Qty per eqpt</u>
A	7BD	6680-99-839-5127	Mod set: Dipstick assembly comprising:	1
1		91108275	Dipstick c/w ring sealing	(1)
2		91108258	Tube assy oil dipstick	(1)

8.2 Stores or suitable equivalent to be obtained locally

3	H1	8030-99-225-0249	Loctite w/PTFE (No 572)	(as reqd)
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8.3 Stores to be removed and returned to RAOC/reduced to scrap

4		Pt No 91033617	Dipstick assy-oil	(1)
5		Pt No 8829424	Tube assy-oil dipstick	(1)

Sequence of operations

9 Carry out the modification as follows:

Note ...

The item numbers of para 8 are used as references throughout this instruction.

9.1 Ensure engine oil level is on the full mark of the original dipstick (item 4).

9.2 Remove original pattern components (items 4 and 5) and clean surrounding area.

9.3 Apply Loctite 572 (item 3) to provide an effective seal between the dipstick tube (item 2) and its locating hole in the cylinder block.

9.4 Install mod set components (items 1 and 2).

9.5 Re-check engine oil level; this should read exactly the same level as was seen during the initial check.

9.6 Road test vehicle and check for leaks.

Testing after embodiment

10 Nil.

EFFECT ON WEIGHT

11 Negligible.

PUBLICATION AMENDMENTS

12 Nil.

TRUCK 4 TONNE 4x4 BEDFORD MJ

(ALL VARIANTS)

MODIFICATION INSTRUCTION No 11

Sponsor:
DGEME(A)

Publications Authority
Vehs & Wpns Br REME
Project No: 71511(174)
File ref: 50736/55

AMENDMENT RECORD

Amdt	Incorporated by	Date	Amdt	Incorporated by	Date
1	Incorporated	Feb 89	4		
2	B. BECKINGHAM	18/8/92	5		
3			6		

SUBJECT: Hitch towing multi height
(50736/55/JT)

INTRODUCTION

1 This instruction provides the details of a multi height towing hitch which is to be manufactured and fitted to vehicles required for the towing of recruiting caravans and/or trailers up to 5 1/4 tons G.V.W. Users should note that ground clearance is reduced when the new hitch is fitted.

1.1 Limitations on use of equipment. Nil

APPLICABILITY

2

2.1 Truck cargo 4 tonne 4x4 Bedford MJ when required to tow vehicles as listed in Para 1 above.

2.2 Truck Fuel Servicing Aircraft, 4 tonne, 4x4, 1000 gallon, D/P, Tactical Airtransportable Mk 5A (all variants) when required to tow the Tactical, Aircraft, Refuelling, Trailer held by user units.

REASON FOR MODIFICATION

3 Code 2 - to improve operational performance.

PRIORITY

4 ARMY: Routine.
RAF: Class 3.

ESTIMATED TIME REQUIRED

5 Embodiment: 2 man-hours
Manufacturing: 4 man-hours

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This modification is to be implemented by:

ARMY - Units authorized to carry out levels 2, 3 and 4 maintenance.

RAF - Units when necessary.

6.2 Associated modification instructions. Nil.

6.3 Modification plate strike action: NA.

Action required by:

7

7.1 Units and establishments holding equipment

7.1.1 Examine vehicle documents to see if modification is applicable.

7.1.2 Examine vehicle to see if modification is embodied and where necessary demand the stores required.

7.1.3 ARMY - When necessary request REME to modify equipment.

7.1.4 ARMY - Record the modification Subject, AESP number and Army Modification Code in vehicle documents.

RAF - Record modification details on RAF Form 4870 and AF G1084A.

7.2 Army units authorized to carry out levels 2, 3 and 4 maintenance, and RAF units

7.2.1 ARMY - When requested by users or during overhaul, obtain the items listed in Para 8 and carry out this modification.

RAF - When necessary, embody the modification.

7.2.2 Record completion details of modification against appropriate entry in vehicle documents.

7.2.3 Complete AF G184A when reporting completion of the modification to Data Centre using the following FORWARD codes:

ARMY: EQUIPMENT CODE - See para 2
MODIFICATION CODE - NN0000

RAF: MODIFICATION CODE - AFC 243

7.3 All recipients of this instruction. Add particulars to AESP 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be manufactured locally

Note ..

Instead of manufacturing the following items, units may remove them from existing Bedford Mk fitted with the same design multi height towing hitch and carry out the relevant parts of para 9.

<u>Item No</u>	<u>COSA Section</u>	<u>NSN/Part No</u>	<u>Designation</u>	<u>Qty per eqpt</u>
A			Multi height tow hitch V6597/1 comprising:	1
1			Plate brace V6597/4	(2)
2			Side stay (lh) V6597/5	(1)
3			Side stay (rh)	(1)
4			Crossbrace V6597/1	(1)
5			Plate anchor V6597/7	(1)

8.2 Stores or suitable equivalent to be obtained locally

6	G1	5306-99-122-8187	Bolt hex hd M16 x 55	2	
7	G1	5306-99-122-8172	Bolt hex hd M12 x 40	6	
8	G1	5310-99-135-0790	Nut hex hd M12	6	
9	G1	5310-99-138-9229	Washer lock M12	6	
10	G2	9510-99-964-7029	Steel bar flat 150 x 25mm	14	kg
11	G2	9520-99-964-5971	Steel angle 50 x 50 x 6mm	10	kg
12	G2	9510-99-964-6997	Steel bar flat 80 x 6mm	4	kg
13	G2	9510-99-964-7013	Steel bar flat 100 x 12mm	15	kg
14	G1	5306-99-122-8188	Bolt hex hd M16 x 60	2	
15	G1	5310-99-135-0791	Nut hex hd M16	8	
16	G1	5310-99-138-9230	Washer lock M16	8	
17	G1	5306-99-122-8193	Bolt hex hd M16 x 90	4	
18	G1	5306-99-122-8194	Bolt hex hd M16 x 100	2	
19	G1	5306-99-122-8195	Bolt hex hd M16 x 110	2	

Sequence of operations

9 Carry out modification as follows:

Notes ...

- (1) When this modification is required to be fitted to the Truck Fuel Servicing Aircraft Tactical Mk 5A to enable the vehicle to tow the Tactical Aircraft Refuelling Trailer, the spare wheel and carrier will require removal. The spare wheel and carrier will have to be retained at units to allow for future role changes to meet deployment commitments.
- (2) The item numbers of para 8 are used as references throughout this instruction.

9.1 Manufacture anchor plate (item 5) from steel bar (item 10) as detailed in fig 1.

9.2 Manufacture side stays lh and rh (items 2 and 3) from steel angle (item 11) as detailed in fig 2.

9.3 Manufacture two brace plates (item 1) from steel bar (item 13) as detailed in fig 3.

9.4 Weld brace plates (item 1) to anchor plate (item 5) as detailed in fig 4.

9.5 Remove and retain towing pintle assembly from chassis rear cross member. Discard fixings.

9.6 Fit anchor plate assembly, (items 1 and 5) to position vacated by towing pintle assembly, securing with bolts, nuts and washers (items 6, 14, 15 and 16) ensuring that the longer bolts (item 14) are fitted to the bottom position and the head of the bolts are to the rear of the vehicle.

9.7 Position side stays lh and rh (items 2 and 3) on brace plates (item 1) as detailed in fig 5. Mark off and drill a 12mm clearance hole in each brace plate (item 1) and secure loosely with bolts, nuts and washers (items 7, 8 and 9).

9.8 Swing side stays (items 2 and 3) upwards until they contact the underside of chassis lh and rh side members. Mark off and drill two 12mm clearance holes in each chassis side member. Secure side stays to chassis side members with bolts, nuts and washers (items 7, 8 and 9). Tighten side stays to brace plates and finally weld side stays to brace plates.

9.9 Cut a suitable length of steel bar (item 12) to form a cross brace (item 4) between side stays (items 2 and 3). Position and weld cross brace (item 4) to top flange of stays at a point midway between anchor plate (item 1) and chassis side members as detailed in fig 5.

9.10 Fit rear towing pintle to anchor plate at position C, D or E using bolts, nuts and washers (items 17, 15 and 16).

9.11 When position A is selected for towing pintle use bolts, nuts and washers (items 18, 19, 15 and 16).

9.12 When position B is selected for towing pintle use bolts, nuts and washers (items 19, 17, 15 and 16).

Testing and embodiment

10 Nil

EFFECT ON WEIGHT

11 Negligible

PUBLICATION AMENDMENTS

12 Nil

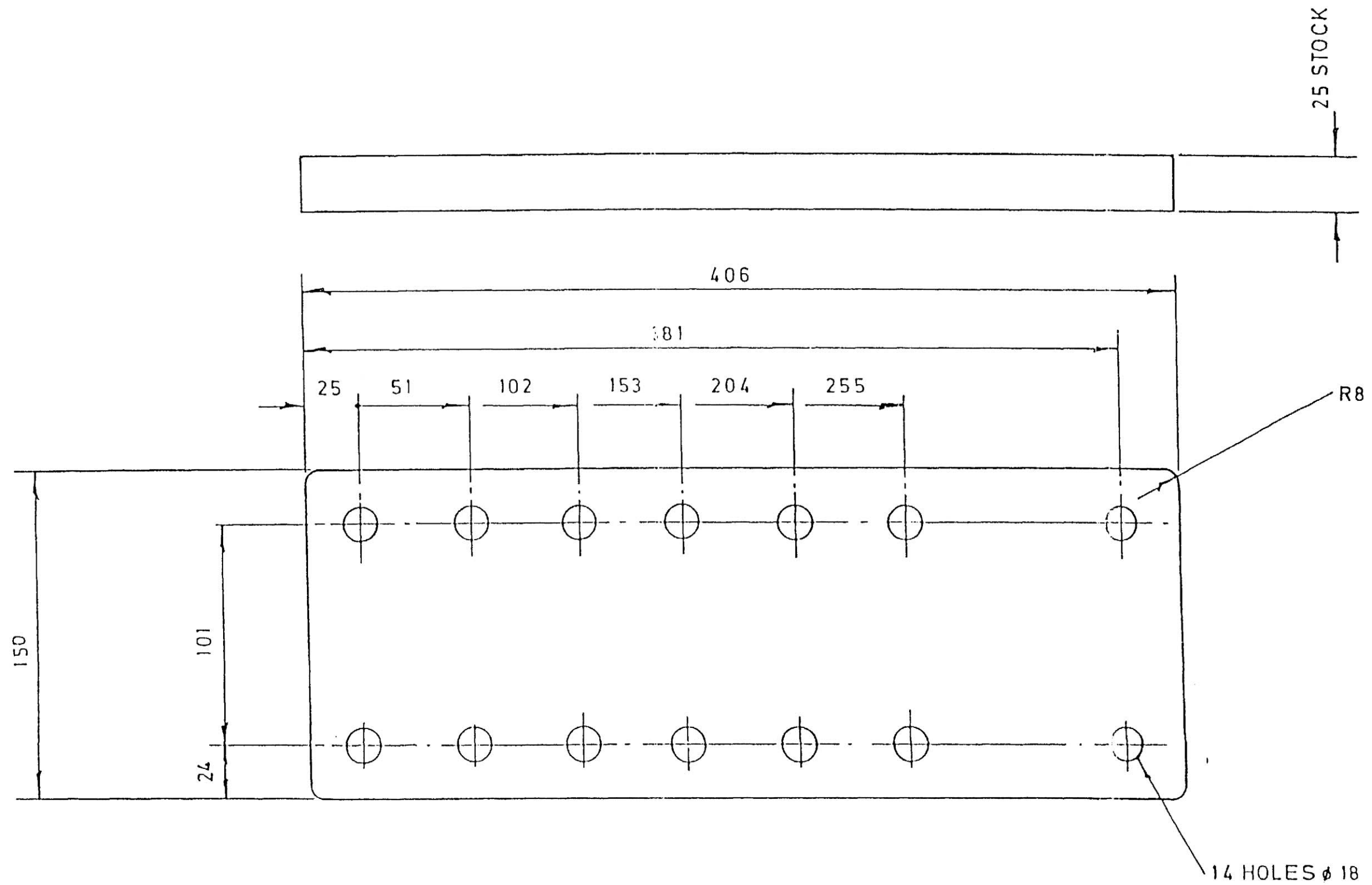


Fig 1

Anchor plate
(Dimensions in mm)

v 6597/7
Fig 1

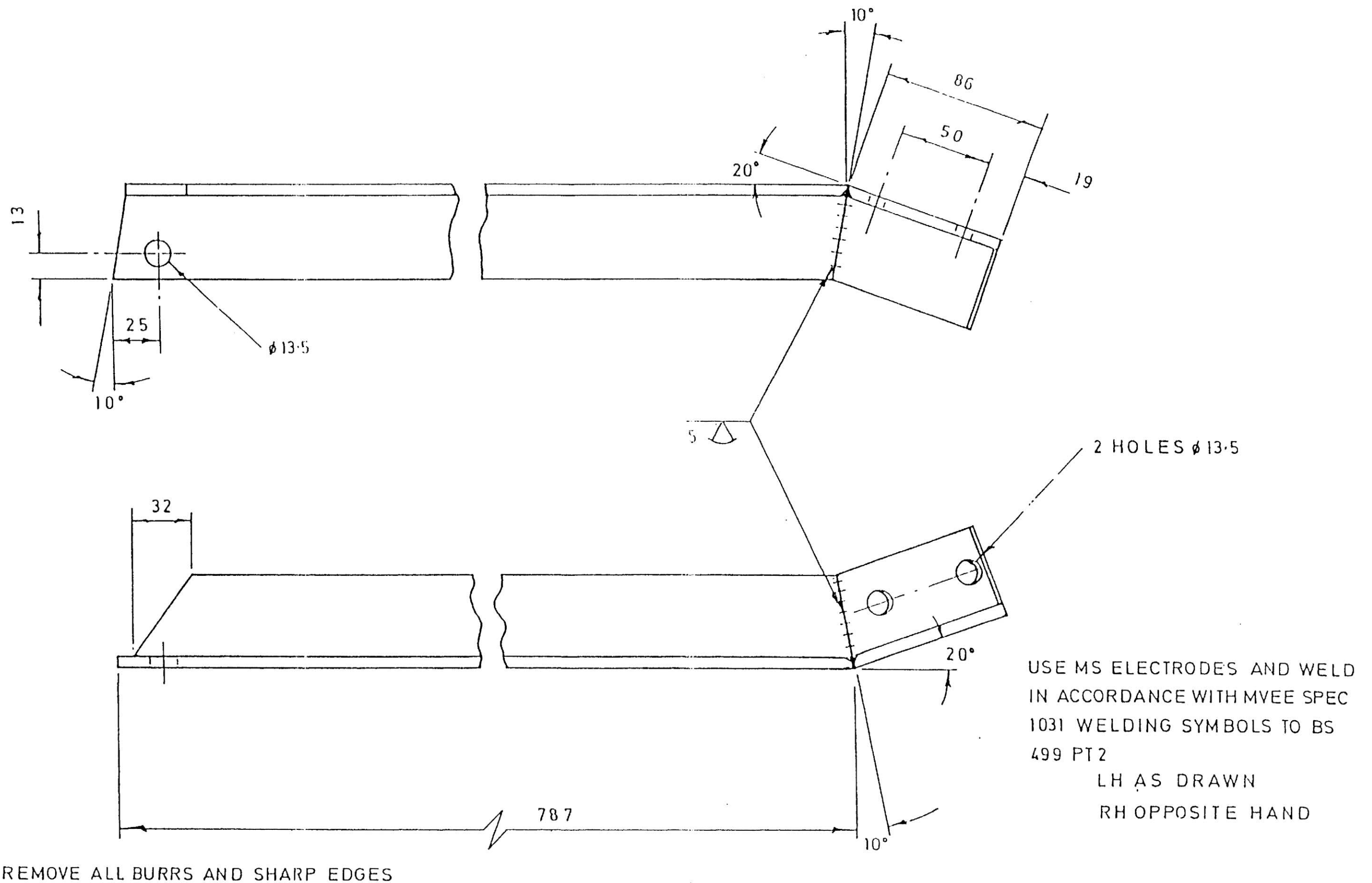
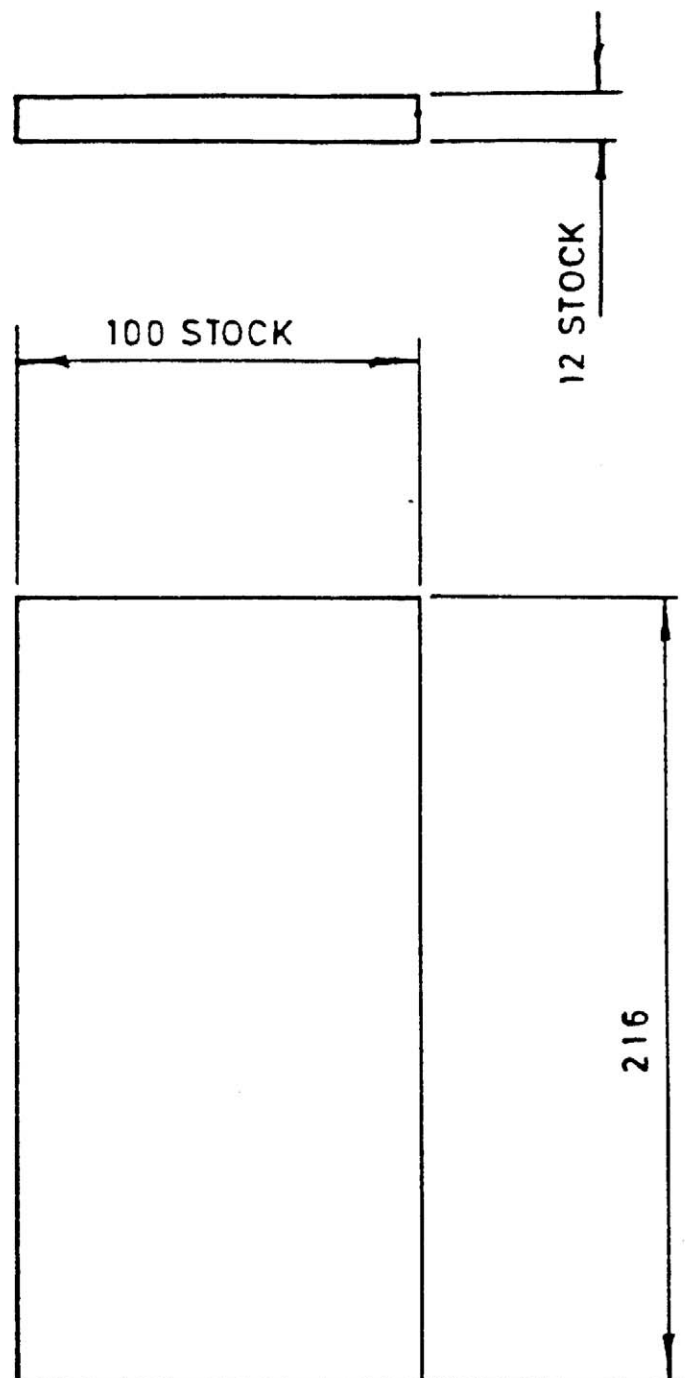


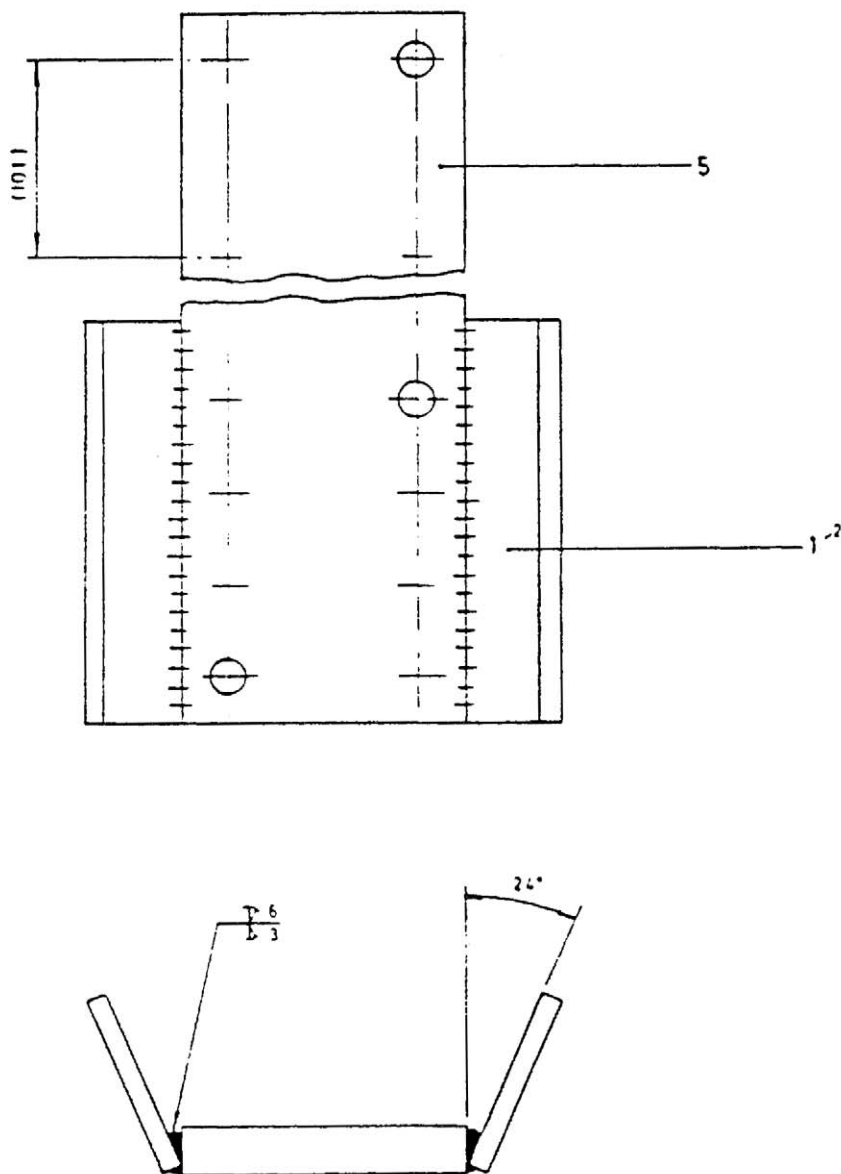
Fig 2

Side stays 1h and rh
(Dimensions in mm)



v 6597/4

Fig 3 Brace plate
(Dimensions in mm)



USE MS ELECTRODES AND WELD
IN ACCORDANCE WITH MVEE SPEC 1031
WELDING SYMBOLS TO BS 499 PT 2

V 6597/6

Fig 4 Anchor plate assembly
(Dimensions in mm)

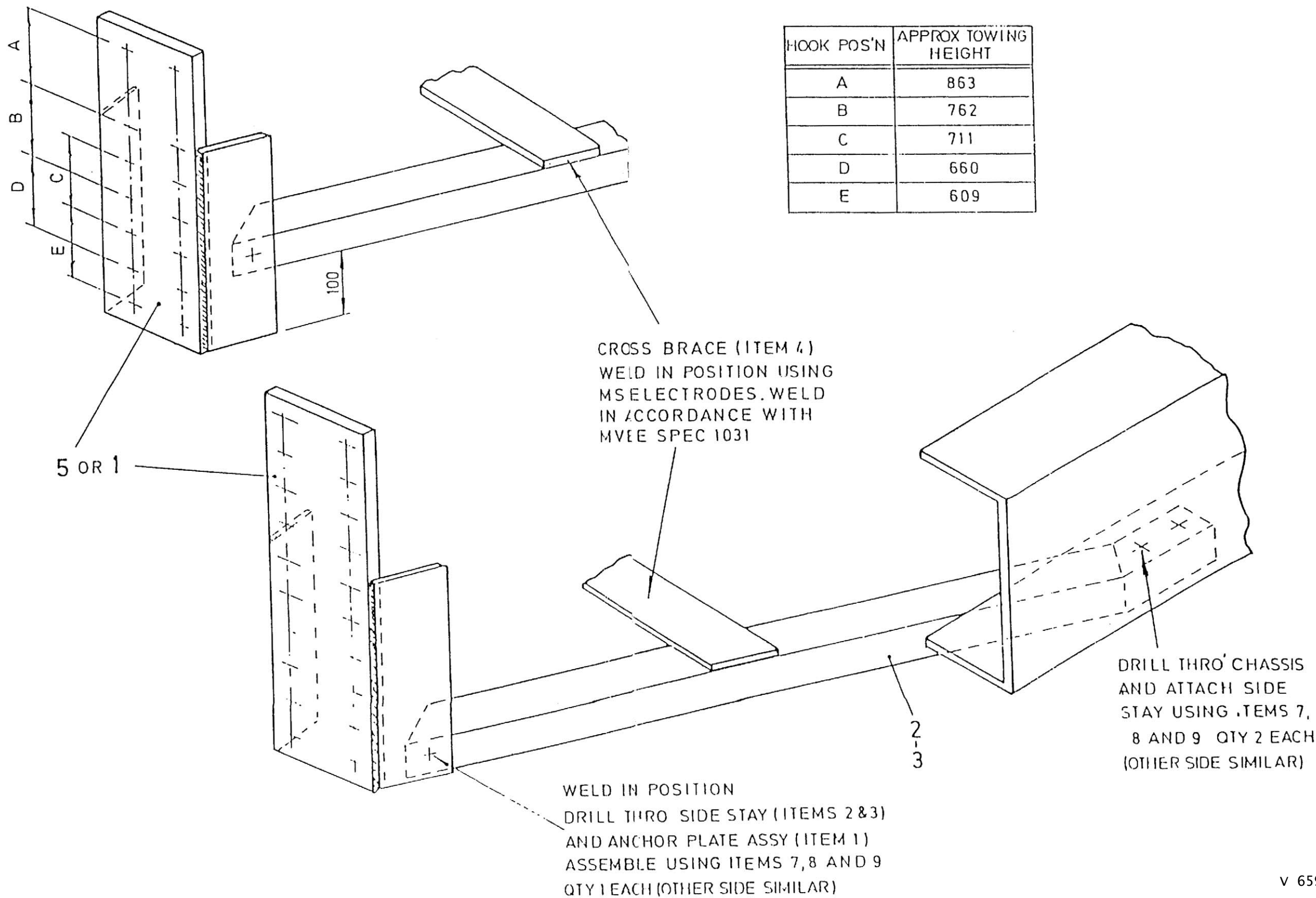


Fig 5

General arrangement of multi height towing hitch
(Dimensions in mm)

Fig 5

TRUCK 4 TONNE, 4x4 BEDFORD MJ

(ALL VARIANTS)

MODIFICATION INSTRUCTION NO 12

Sponsor:
DGEME(A)

Publications Authority
Vehs & Wpns Br REME
Project No: 71212(18)
File ref: 0736/55

AMENDMENT RECORD

Amdt	Incorporated by	Date	Amdt	Incorporated by	Date
1	INCORPORATED		4		
2	GRC Boyle	1/12/97	5		
3			6		

SUBJECT: Fuel tank
(12-2001 and 12-1953/1)

INTRODUCTION

1 An improved quality fuel tank and a fuel tank stop have been produced and fitted to the later builds of subject vehicle. When the earlier builds of subject vehicle require a replacement fuel tank, units are to fit the latest type which requires a fitting kit and a fuel tank stop. This instruction gives the necessary detail.

1.1 Limitations on use of equipment. NIL

APPLICABILITY

2 Truck, cargo, 4 tonne, 4x4, Bedford MJ (all variants) fitted with earlier type of fuel tank and held by user units.

REASON FOR MODIFICATION

3 Code 6 - product improvement.

PRIORITY

4 ARMY: Routine.
RAF: Class 3

ESTIMATED TIME REQUIRED

5 Embodiment: 6 man-hours

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This modification is to be implemented by:

ARMY - Units authorized to carry out levels 2, 3 and 4 maintenance, as and when required.

RAF - Units as and when required.

6.2 Associated modification instructions. Nil

6.3 Modification plate strike action: NA

Action required by:

7

7.1 Units and establishments holding equipment

7.1.1 Examine vehicle documents to see if modification is applicable.

7.1.2 ARMY - Examine vehicle to see if modification is embodied and where necessary Units with 1st Line REME Support demand the stores required.

RAF - Examine vehicle to see if modification is embodied and where necessary demand the stores required.

7.1.3 ARMY - On receipt of stores, request REME to modify equipment.

7.1.4 ARMY - Record the modification Subject, AESP number and Modification Code in vehicle documents.

RAF - Record modification details on RAF Form 4870 and AF G1084A.

7.2 Army units authorized to carry out levels 2, 3 and 4 maintenance, and RAF units.

7.2.1 ARMY - When requested by users or during overhaul of vehicles on charge without REME 1st Line Support obtain the items listed in para 8 and carry out this modification.

RAF - On receipt of stores, embody the modification.

7.2.2 Record completion details of modification against appropriate entry in vehicle documents.

7.2.3 Complete AF G1084A when reporting completion of the modification to Data Centre using the following FORWARD codes:

□□□□□□ ARMY: EQUIPMENT CODE - See para 2
□□□□□□ MODIFICATION CODE NN0000

□□□□□□ RAF: MODIFICATION CODE AFC 249

7.3 All recipients of this instruction. Add particulars to AESP 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded

8.1.1 The following items and modification set are to be demanded quoting this instruction as authority for demand, and

8.1.2 Registration number of vehicle for equipment held by user units.

<u>Item No</u>	<u>COSA Section</u>	<u>NSN/Part No</u>	<u>Designation</u>	<u>Qty per veh</u>
1	7BD	2910-99-978-1045	Fuel tank assy (Pt No 91121155)	1
A	7BD	2910-99-839-7037	Fuel tank fitting kit (Pt No 91126341) comprising:	
2	7BD	2990-99-978-2399	Sender unit (Pt No 91114475)	(1)
3	7BD	2910-99-732-7011	Locking ring (Pt No 91110526)	(1)
4	7BD	5330-99-734-4775	Gasket (Pt No 91110527)	(1)
5	7BD	2910-99-733-8048	Pipe (Pt No 91119178)	(2)
6		91064682	Nut	(6)
7		91064681	Olive	(6)
8		91089146	Nut	(2)
9		91087456	Olive	(2)
10	7BD	2590-99-978-2581	Adaptor (Pt No 91104757)	(2)
11		91106516	Adaptor	(1)
12	6MT1	5330-99-881-2905	Ring (Pt No 91104547)	(1)*
13	7BD	4820-99-978-1716	Valve assy (Pt No 91106517)	(1)
14		91104549	Adaptor	(1)
15		91104790	Elbow	(1)
16	7BD	2590-99-978-1715	Handle assy (Pt No 91108316)	(1)
17		11077161	Pin	(1)
18	7BD	7690-99-215-7592	Label (Pt No 91043914)	(1)

*2 required units are to demand one additional

<u>Item No</u>	<u>COSA Section</u>	<u>NSN/Part No</u>	<u>Designation</u>	<u>Qty per veh</u>
19	G1	5305-99-122-4911	Screw M10 x 30	1
20	G1	5310-99-122-5297	Nut M10	1
21	G1	5310-99-135-9303	Washer, lock M10	1
22	G1	5310-99-122-8067	Washer M10	1
23	7BD	2910-99-748-0396	Bracket assy (Pt No 91005739)	1
24	7BD	4730-99-839-7350	Adaptor (Pt No 91104756)	1

8.2 Stores to be removed and reduced to scrap

25	7BD	2910-99-721-4570	Fuel tank assy (Pt No 91103011)	1
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Sequence of operations

9 Carry out the modification as follows:

Note ...

The item numbers of para 8 are used as references throughout this instruction.

9.1 Remove fuel tank (item 25) and fuel pipes, and discard.

9.2 Drill $\varnothing 10.5$ mm hole in chassis for fitting fuel tank stop as shown in Fig 1.

9.3 Fit new fuel tank (item 1) using fitting kit (item A) and adaptor (item 24) in accordance with Fig 2. (Soften nylon pipes (item 5) before fitting.)

9.4 Secure nylon pipes (item 5) with suitable tywraps, route as per original pipes.

9.5 Ensure grommets are fitted where fuel pipes pass through chassis.

9.6 Fit suitable grommets in fuel tap handle bracket.

9.7 Fit 'on-off' label (item 18) to fuel tap bracket.

9.8 Fit fuel tank stop bracket (item 23) using screw, nut, lock washer and washer (items 19, 20 21 and 22) ensuring that the bracket butts against the fuel tank.

Note ...

Items 8, 9 and 10, only one of each required to carry out modification.

Testing after embodiment

10 Nil.

EFFECT ON WEIGHT

11 Negligible.

PUBLICATION AMENDMENTS

12 Nil.

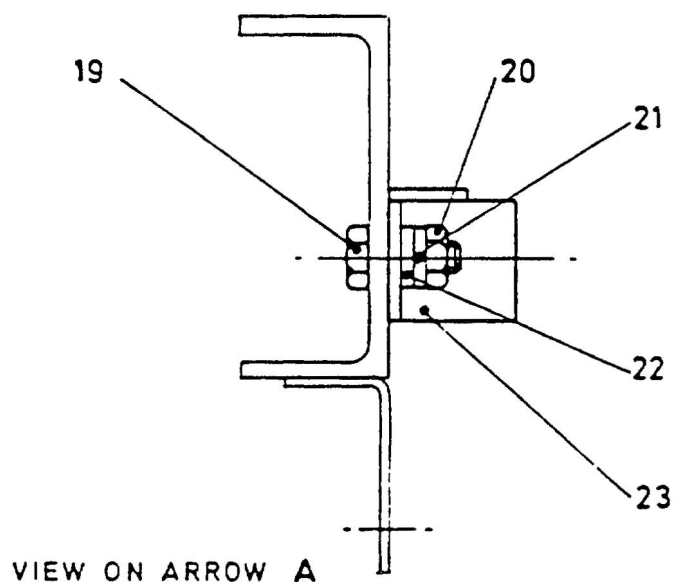
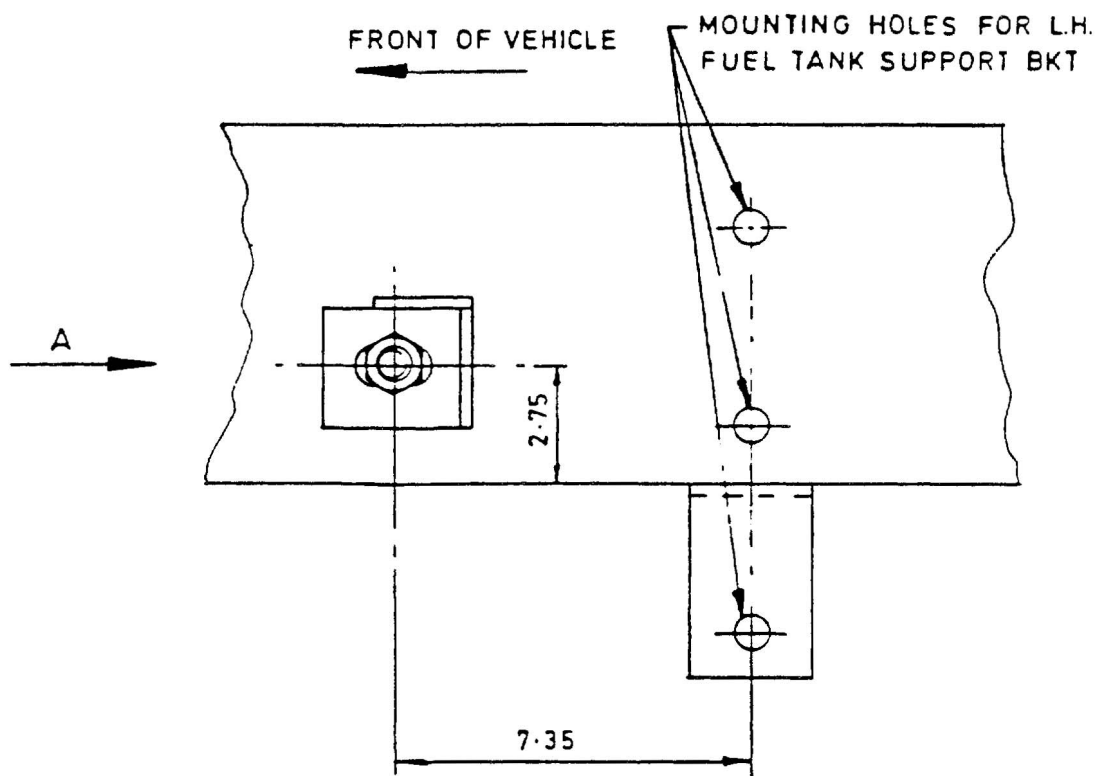


Fig 1 - Fuel tank stop
(Dimension in inches)

v7712/1

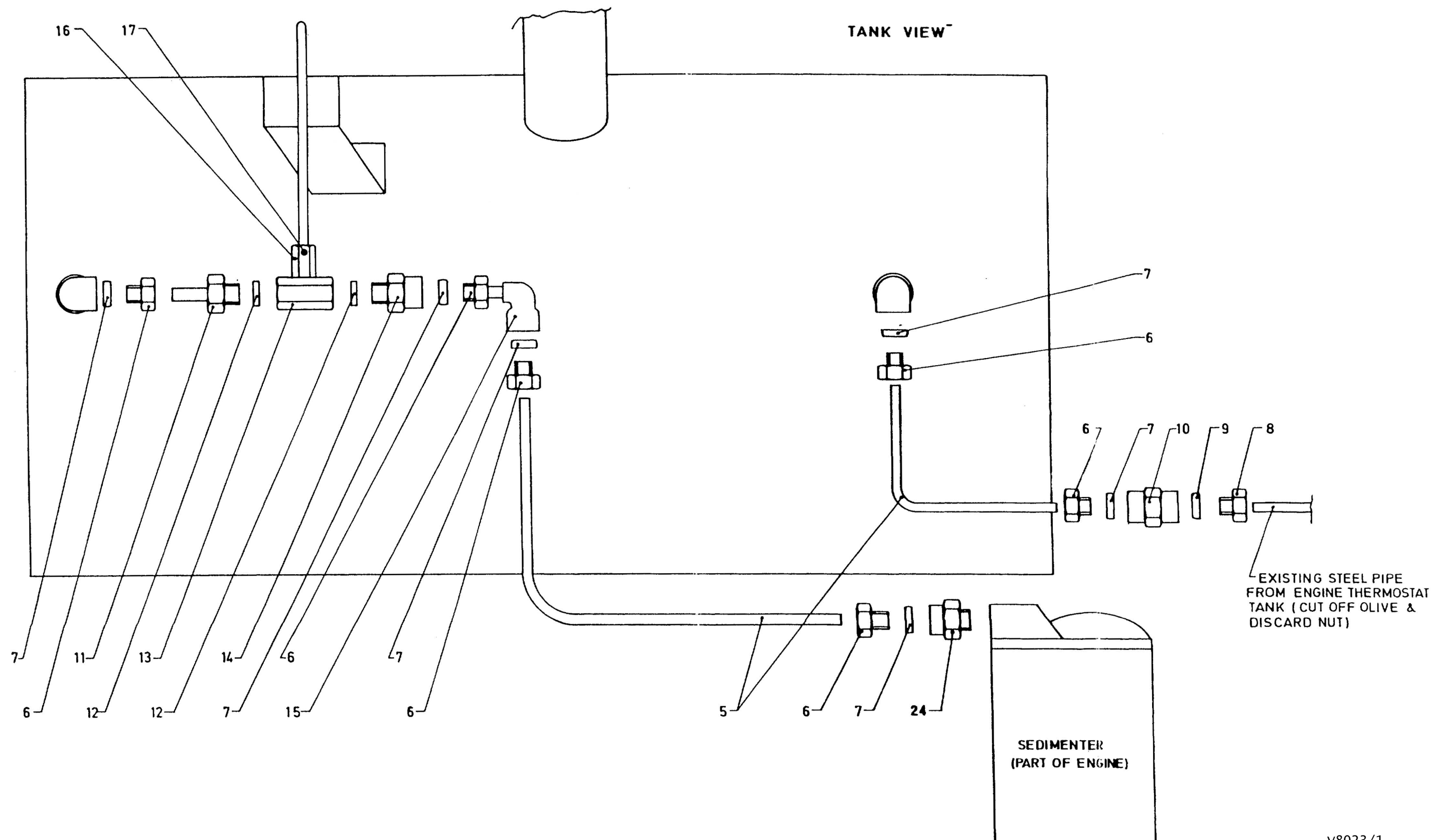


Fig 2

Layout of fuel tank fitting kit

V8023/1
Fig 2

TRUCK CARGO 4 TONNE 4x4 BEDFORD MJ (ALL VARIANTS)

MODIFICATION INSTRUCTION NO 13

Sponsor:
DGEME(A)

Publications Authority
Vehs & Wpns Br REME
Project No: 71212(181)
File ref: 0736/56

AMENDMENT RECORD

Amdt	Incorporated by	Date		Amdt	Incorporated by	Date
1				4		
2				5		
3				6		

SUBJECT: Brake pressure warning switch
(MAE 12-2006/1)

INTRODUCTION

1 On production the brake low air pressure warning switch has been replaced with one that accepts a different cover to improve the sealing of the switch against water entry. The chassis wiring harness has been revised to accept this change because the old cover was part of the harness. The new switch and cover can be fitted using the old harness if the old cover is out off, but when a new harness is fitted a new switch and cover will be required. When a new harness is received this instruction is to be carried out.

1.1 Limitations on use of equipment. NIL

APPLICABILITY

2 Truck cargo 4 tonne 4x4 Bedford MJ (all variants) held by user units.

REASON FOR MODIFICATION

3 Code 3 - to improve reliability.

PRIORITY

4 ARMY: Routine.
RAF: Class 3.

ESTIMATED TIME REQUIRED

5 Embodiment: 2 man-hours

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This modification is to be implemented by:

ARMY - Units authorised to carry out levels 2, 3 and 4 maintenance, as and when required.

RAF - Units as and when required.

6.2 Associated modification instructions. Nil

6.3 Modification plate strike action: NA

Action required by:

7

7.1 Units and establishments holding equipment

7.1.1 Examine vehicle documents to see if modification is applicable.

7.1.2 ARMY - Examine vehicle to see if modification is embodied and where necessary Units with 1st Line REME Support demand the stores required.

RAF - Examine vehicle to see if modification is embodied and where necessary demand the stores required.

7.1.3 ARMY - On receipt of stores, request REME to modify equipment.

7.1.4 ARMY - Record the modification Subject, AESP number and Army Modification Code in vehicle documents.

RAF - Record modification details on RAF Form 4870 and AF G1084A.

7.2 Army units authorised to carry out levels 2, 3 and 4 maintenance, and RAF units.

7.2.1 ARMY - When requested by users or during overhaul of vehicles on charge without REME 1st Line Support obtain the items listed in para 8 and carry out this modification.

RAF - On receipt of stores, embody the modification.

7.2.2 Record completion details of modification against appropriate entry in vehicle documents.

7.2.3 Complete AF G1084A when reporting completion of the modification to Data Centre using the following FORWARD codes:

ARMY: EQUIPMENT CODE - See para 2
MODIFICATION CODE NN0000
RAF: MODIFICATION CODE AFC 252

7.3 All recipients of this instruction. Add particulars to AESP 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded

8.1.1 On receipt of the revised harness assembly (NSN 7BD/2590-99-750-5047) the following items are to be demanded quoting this instruction as authority for demand, and

8.1.2 Registration number of vehicle for equipment held by user units.

<u>Item No</u>	<u>COSA Section</u>	<u>NSN/Part No</u>	<u>Designation</u>	<u>Qty per eqpt</u>
1	7BD	5930-99-750-7045	Switch assy - low air pressure (Pt No 91092874)	1
2	7BD	5930-99-750-7046	Cover - low air pressure switch (Pt No 91098386)	1

8.2 Stores to be removed and reduced to scrap

3		91063198	Switch assy - low air pressure	1
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Sequence of operations

9 Carry out the modification as follows:

Note ...

The item numbers of para 8 are used as references throughout this instruction.

9.1 Remove and discard old chassis wiring harness.

9.2 Remove and discard low air pressure switch (item 3).

9.3 Fit new low air pressure switch (item 1).

9.4 Fit revised wiring harness along with the new low air pressure switch cover (item 2).

Testing after embodiment

10 Nil.

EFFECT ON WEIGHT

11 Negligible.

PUBLICATION AMENDMENTS

12 Nil.

TRUCK CARGO 4 TONNE 4 X 4 BEDFORD MJ

(ALL VARIANTS)

MODIFICATION INSTRUCTION NO 14

Sponsor:
DGEME(A)

Publications Authority:
Vehicles and Weapons Branch REME
Project No: 71312(255)
File ref: VB 50736/53

AMENDMENT RECORD

Amdt	Incorporated by	Date		Amdt	Incorporated by	Date
1	M. J. Carter	14/7/92		4		
2				5		
3				6		

SUBJECT: Engine ventilation system
(Task 639/1)

INTRODUCTION

1 The present engine ventilation system can cause excessive oil pull over from the side cover resulting in oil being deposited on the road surface. This instruction details the modifications to prevent this occurring.

1.1 Limitations on use of equipment. NIL

APPLICABILITY

2 Truck Cargo 4 Tonne 4 x 4 Bedford MJ (all variants) held by user units.

REASON FOR MODIFICATION

3 Code 4 - to improve maintainability

PRIORITY

4 ARMY: Routine
RAF: Class 3

ESTIMATED TIME REQUIRED

5 Dismantling: 1 man-hour
Manufacturing: 2 man-hours
Assembling: 1 man-hour

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This modification is to be implemented by:

ARMY - Units authorised to carry out levels 2, 3 and 4 maintenance.

RAF - Units not later than the next scheduled maintenance.

6.2 Associated modification instructions. Nil

6.3 Modification plate strike action: NA

Action required by:

7

7.1 Units and establishments holding equipment

7.1.1 Examine vehicle documents to see if modification is applicable.

7.1.2 ARMY - examine vehicle to see if modification is embodied and where necessary units with 1st Line REME Support demand the stores required.

RAF - examine vehicle to see if modification is embodied and where necessary demand the stores required.

7.1.3 ARMY - On receipt of stores, request REME to modify equipment.

7.1.4 ARMY - Record the modification Subject, AESP number and Army Modification Code in vehicle documents.

RAF - Record modification details on RAF Form 4870 and AF G1084A.

7.2 Army units authorised to carry out levels 2, 3 and 4 maintenance, and RAF units

7.2.1 ARMY - When requested by users or during overhaul of vehicles on charge without REME 1st Line Support, obtain the items listed in para 8 and carry out this modification.

RAF - On receipt of stores, embody the modification.

7.2.2 Record completion details of modification against appropriate entry in equipment documents.

7.2.3 Complete AF G1084A when reporting completion of the modification to Data Centre using the following FORWARD codes:

ARMY:	EQUIPMENT CODE:	See para 2
	MODIFICATION CODE:	NN0000
RAF:	MODIFICATION CODE:	AFC 246

7.3 All recipients of this instruction. Add particulars to AESP ref 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded

8.1.1 The following items are to be demanded quoting this instruction as authority for demand, and

8.1.2 Registration number of vehicle for equipment held by user units.

<u>Item No</u>	<u>COSA Section</u>	<u>NSN/Part No</u>	<u>Designation</u>	<u>Qty per eqpt</u>
1	6MT1	4730-99-533-2962	Clip, rocker cover	1
2	7BD	2990-99-801-3018	Pipe, engine vent	1
3	7BD	5340-99-838-4821	Clip, alternator bkt	1

8.2 stores or suitable equivalent to be obtained locally

4	G2	4710-99-965-0500	Steel tube, 25 mm x 16 mm wall	A/R
---	----	------------------	--------------------------------	-----

8.3 Stores to be removed and reduced to scrap

5		910 33460	Pipe assy vent	1
6		910 33445	Tee piece	1
7		910 36940	Pipe assy	1
8		910 34151	Elbow	2
9		910 33458	Pipe assy	1

Sequence of operations

9 Carry out the modification as follows:

Note ...

The item numbers of Para 8 are used as references throughout this instruction.

9.1 Units are to modify the existing rocker cover using a suitable length of pipe (item 4) as shown in Fig 1 and blank off the existing pipe.

9.2 Units are to remove item 5 to 10 (Fig 2).

9.3 Units are to fit items 1 to 3 (Fig 1) as shown and blank off the existing side cover breather.

Testing after embodiment

10 Nil

EFFECT ON WEIGHT

11 Negligible

PUBLICATION AMENDMENTS

12 Nil

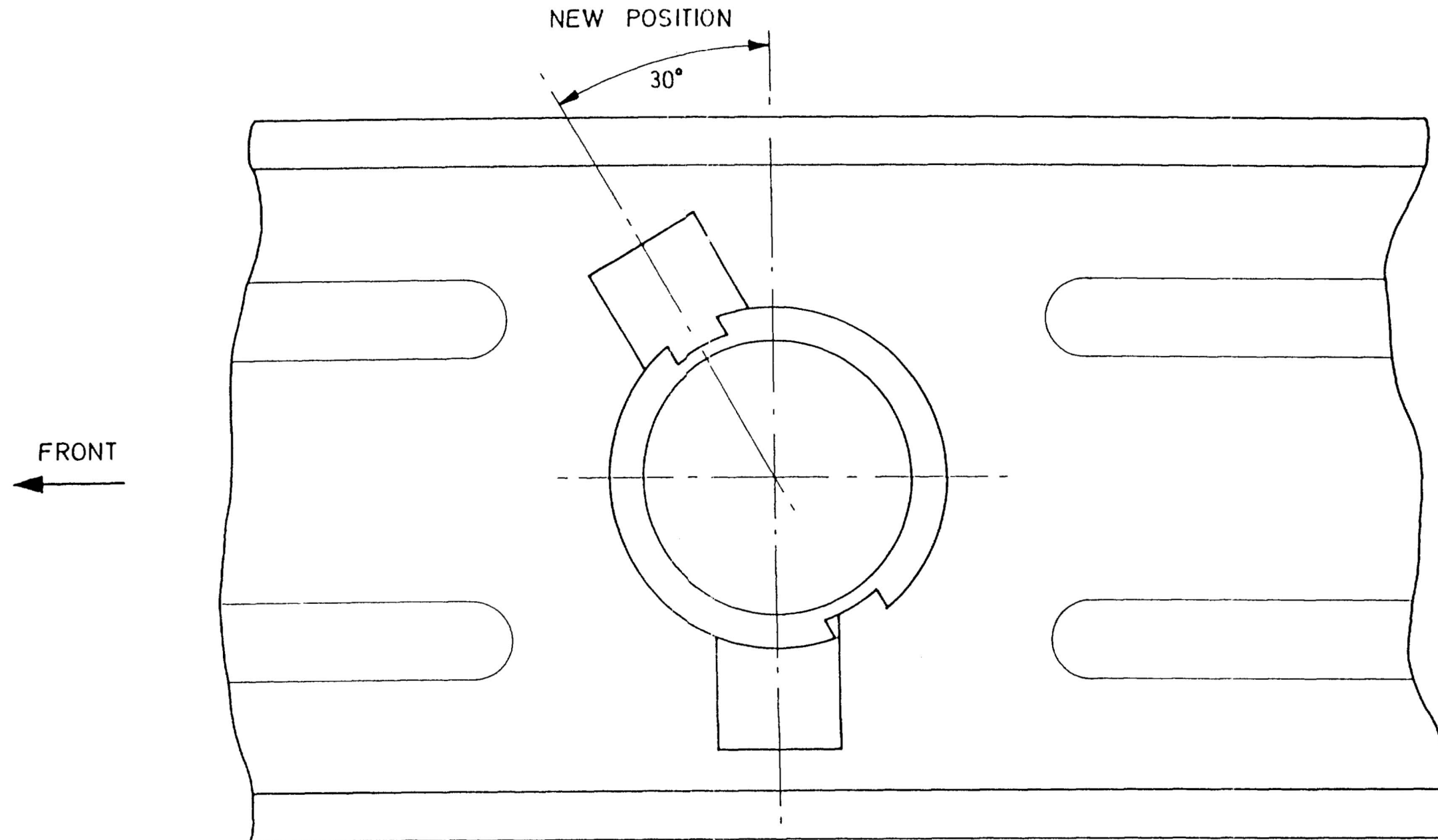


Fig 1

Rocker cover modification

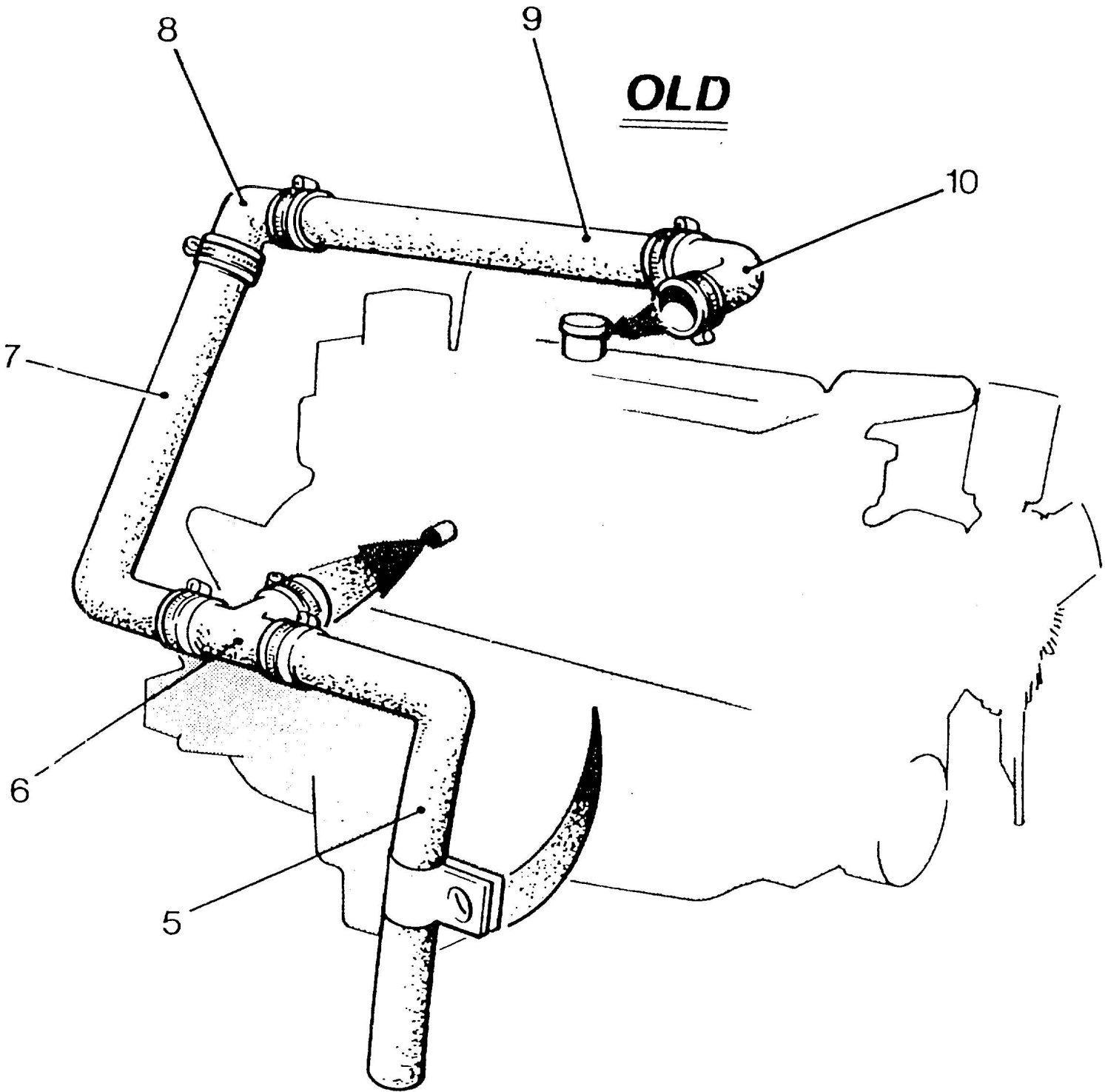
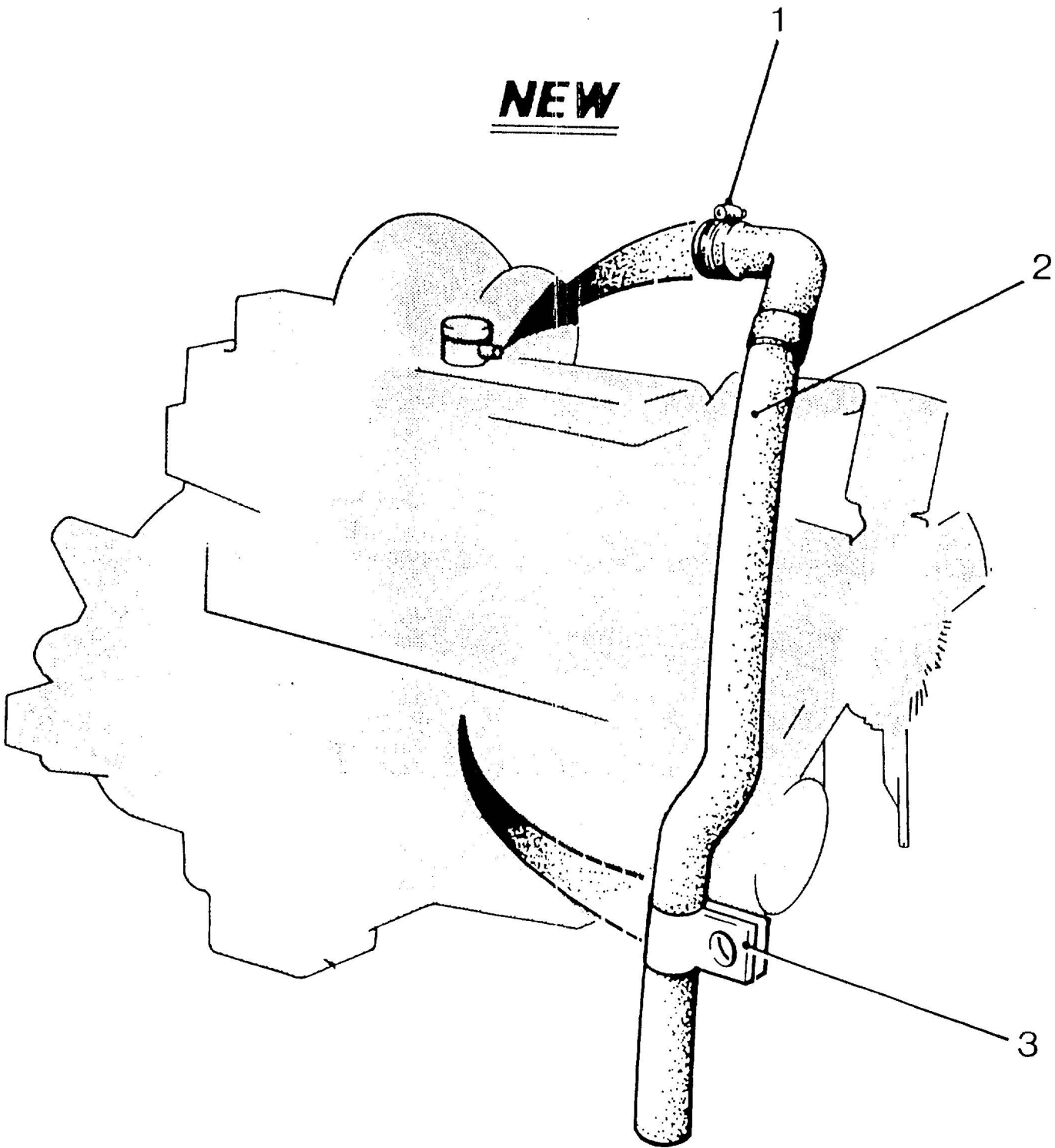


Fig 2

YA39-022109.7/8
Oct 88

Engine ventilation system

Fig 2

Mod Instr No 14
Page 6

TRUCK CARGO 4 TONNE 4 X 4 BEDFORD MJ (ALL VARIANTS)

MODIFICATION INSTRUCTION NO 15

Sponsor:
DGEME (A)

Publications Authority:
Vehicles and Weapons Branch REME
Project No: 71312(70)
File ref: 0736/66

AMENDMENT RECORD

Amdt	Incorporated by	Date	Amdt	Incorporated by	Date
1			4		
2			5		
3			6		

SUBJECT: Additional fuse carrier
(12-2039)

INTRODUCTION

1 This modification introduces the addition of an extra fuse carrier to the existing earth leakage fault test circuit.

1.1 Limitations on use of equipment. NIL

APPLICABILITY

2 Truck Cargo, 4 Tonne, 4 x 4, Bedford MJP (double-poled variants) of the following VACs 2039-3100, 2165-8100, 2165-3101, 2204-8100 and 2204-3100 held by user units, and vehicle depots.

REASON FOR MODIFICATION

3 Code 6 - MOD request

PRIORITY

4 ARMY: Routine
RAF: Class 3

ESTIMATED TIME REQUIRED

5 Embodiment: 2.5 man-hours

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This modification is to be implemented by:

ARMY - Units authorised to carry out levels 2, 3 and 4 maintenance.

RAF - Units immediately on receipt of stores and Vehicle Depots before issue of vehicle.

6.2 Associated modification instructions. Nil

6.3 Modification plate strike action: NA

Action required by:

7

7.1 Units and establishments holding equipment

7.1.1 Examine vehicle documents to see if modification is applicable.

7.1.2 ARMY - Examine vehicle to see if modification is embodied and where necessary demand the stores required.

RAF - Examine vehicle to see if modification is embodied and where necessary demand the stores required.

7.1.3 ARMY - On receipt of stores, request REME to modify equipment.

7.1.4 ARMY - Record the modification Subject, AESP number and Army Modification Code in vehicle documents.

RAF - Record modification details on RAF Form 4870 and AF G1084A.

7.2 Army units authorised to carry out levels 2, 3 and 4 maintenance, and RAF units

7.2.1 ARMY - When requested by users or during overhaul, obtain the items listed in para 8 and carry out this modification.

RAF - On receipt of stores, embody the modification.

7.2.2 Record completion details of modification against appropriate entry in equipment documents.

7.2.3 Complete AF G1084A when reporting completion of the modification to Data Centre using the following FORWARD codes:

ARMY: EQUIPMENT CODE - See para 2
MODIFICATION CODE - NN0000

RAF: MODIFICATION CODE - AFC 258

7.3 All recipients of this instruction. Add particulars to AESP
2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded

8.1.1 The following item is to be demanded quoting this instruction as authority for demand, and

8.1.2 Registration number of vehicle for equipment held by user units.

8.1.3 Registration number of vehicle for unmodified stock held in RAOC stores.

<u>Item</u> <u>No</u>	<u>COSA</u> <u>Section</u>	<u>NSN/Part No</u>	<u>Designation</u>	<u>Qty</u> <u>per eqpt</u>
1	6MT1	5920-99-793-4147	Fuse carrier assy	1

Sequence of operations

Note ...

The item numbers of para 8 are used as references throughout this instruction.

9 Carry out the modification as follows:

9.1 Turn off vehicle master switch.

9.2 Remove speedometer head and housing complete to gain access to the rear of the test buttons and lights.

9.3 Disconnect original fuse carrier from its position as shown in Fig 1.

9.4 Incorporate original fuse carrier assembly and additional fuse carrier assembly (item 1) into earth leakage fault test circuit as shown in Fig 2.

9.5 Replace speedometer head and housing.

9.6 Turn on vehicle master switch.

Testing after embodiment

10 Carry out full earth leakage test of all vehicles electrical equipment.

EFFECT ON WEIGHT

11 Negligible

PUBLICATION AMENDMENTS

12 Nil

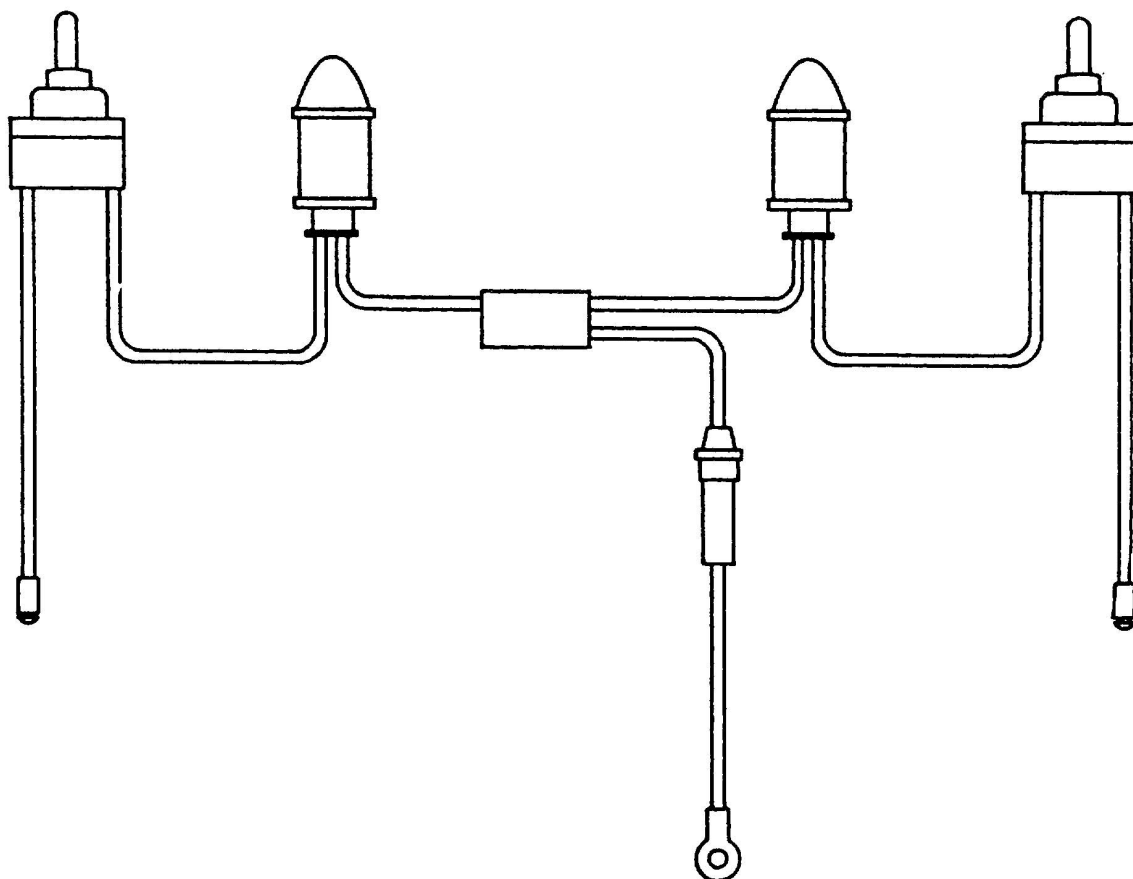


Fig 1 Unmodified earth leakage test circuit

V8481/1

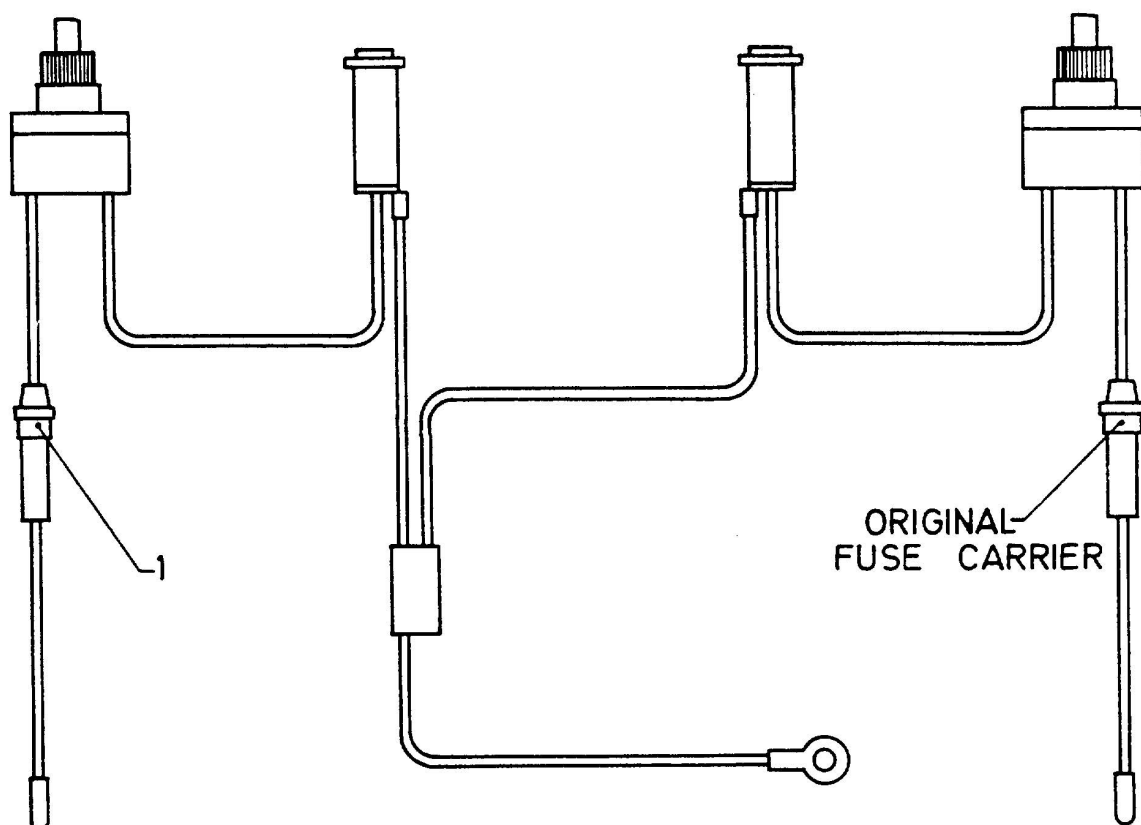


Fig 2 Modified earth leakage test circuit

V8481/2

TRUCK, 4 TONNE, 4 X 4, BEDFORD, MJ (ALL VARIANTS)

MODIFICATION INSTRUCTION NO 16

Sponsor:
DGEME (A)

Publications Authority:
Vehicles and Weapons Branch REME
Project No: 71312(91)
File ref: 0736/59

AMENDMENT RECORD

Amdt	Incorporated by	Date	Amdt	Incorporated by	Date
1			4		
2			5		
3			6		

SUBJECT: Convoy lamp line fuse
(12-1818)

INTRODUCTION

1 This modification has been brought about because of the possible fire hazzard that may occur in the wiring harness if the trailer convoy light feed shorts to earth.

1.1 Limitations on use of equipment. NIL

APPLICABILITY

2 Truck, 4 Tonne, 4 x 4, Bedford, MJ (all variants).

2.1 Unmodified stock, held in RAOC and technical stores.

REASON FOR MODIFICATION

3 Code 6 - MOD request

PRIORITY

4 ARMY: Routine
RAF: Class 3

ESTIMATED TIME REQUIRED

5 Embodiment: 3.5 man-hours

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This modification is to be implemented by:

ARMY - Units authorized to carry out levels 2, 3 and 4 maintenance.

RAF - Units not later than the next scheduled servicing and Vehicle Depots before issue of vehicle.

6.2 Associated modification instructions. Nil

6.3 Modification plate strike action: NA

Action required by:

7

7.1 Units and establishments holding equipment

7.1.1 Examine vehicle documents to see if modification is applicable.

7.1.2 ARMY - Examine vehicle to see if modification is embodied and where necessary units with 1st Line REME Support demand the stores required.

RAF - Examine vehicle to see if modification is embodied and where necessary demand the stores required.

7.1.3 ARMY - On receipt of stores, request REME to modify equipment.

7.1.4 ARMY - Record the modification Subject, AESP number and Army Modification Code in vehicle documents.

RAF - Record modification details on RAF Form 4870 and AF G1084A.

7.2 Army units authorised to carry out levels 2, 3 and 4 maintenance, and RAF units

7.2.1 ARMY - When requested by users or during overhaul of vehicles on charge without REME 1st Line Support, obtain the items listed in para 8 and carry out this modification.

RAF - On receipt of stores, embody the modification.

7.2.2 Record completion details of modification against appropriate entry in vehicle documents.

7.2.3 Complete AF G1084A when reporting completion of the modification to Data Centre using the following FORWARD codes:

ARMY: EQUIPMENT CODE: See para 2
MODIFICATION CODE: NN0000

RAF: MODIFICATION CODE: AFC 259

7.3 All recipients of this instruction. Add particulars to AESP ref 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded

8.1.1 The following modification set is to be demanded quoting this instruction as authority for demand, and

8.1.2 Registration number of vehicle for equipment held by user units.

8.1.3 Registration number of vehicle for unmodified stock held in RAOC and technical stores.

<u>Item</u> <u>No</u>	<u>COSA</u> <u>Section</u>	<u>NSN/Part No</u>	<u>Designation</u>	<u>Qty</u> <u>per eqpt</u>
1	7BD	2590-99-839-7238	Mod set: Convoy lamp line fuse	1
2		91131086	comprising: Cable assy line fuse	(1)
3		8824959	Clip	(1)

Sequence of operations

Note ...

The item numbers of para 8 are used as references throughout this instruction.

9 Carry out the modification as follows:

9.1 Disconnect or isolate battery supply.

9.2 Remove vehicle lighting switch.

9.3 Identify terminal No 2 on vehicle lighting switch and disconnect Red/Green cable.

9.4 Fit to terminal No 2 on vehicle lighting switch female connector of cable assy line fuse (item 2).

9.5 Fit male connector of cable assy line fuse (item 2) into the female connector of previously disconnected Red/Green cable.

9.6 Ensure insulating sleeve is over connection between male connector of cable assy line fuse (item 2) and female connector of Red/Green cable.

9.7 Secure line fuse in the back of instrument panel using clip (item 3).

9.8 Refit vehicle lighting switch.

9.9 Reconnect battery supply and test circuit.

Testing after embodiment

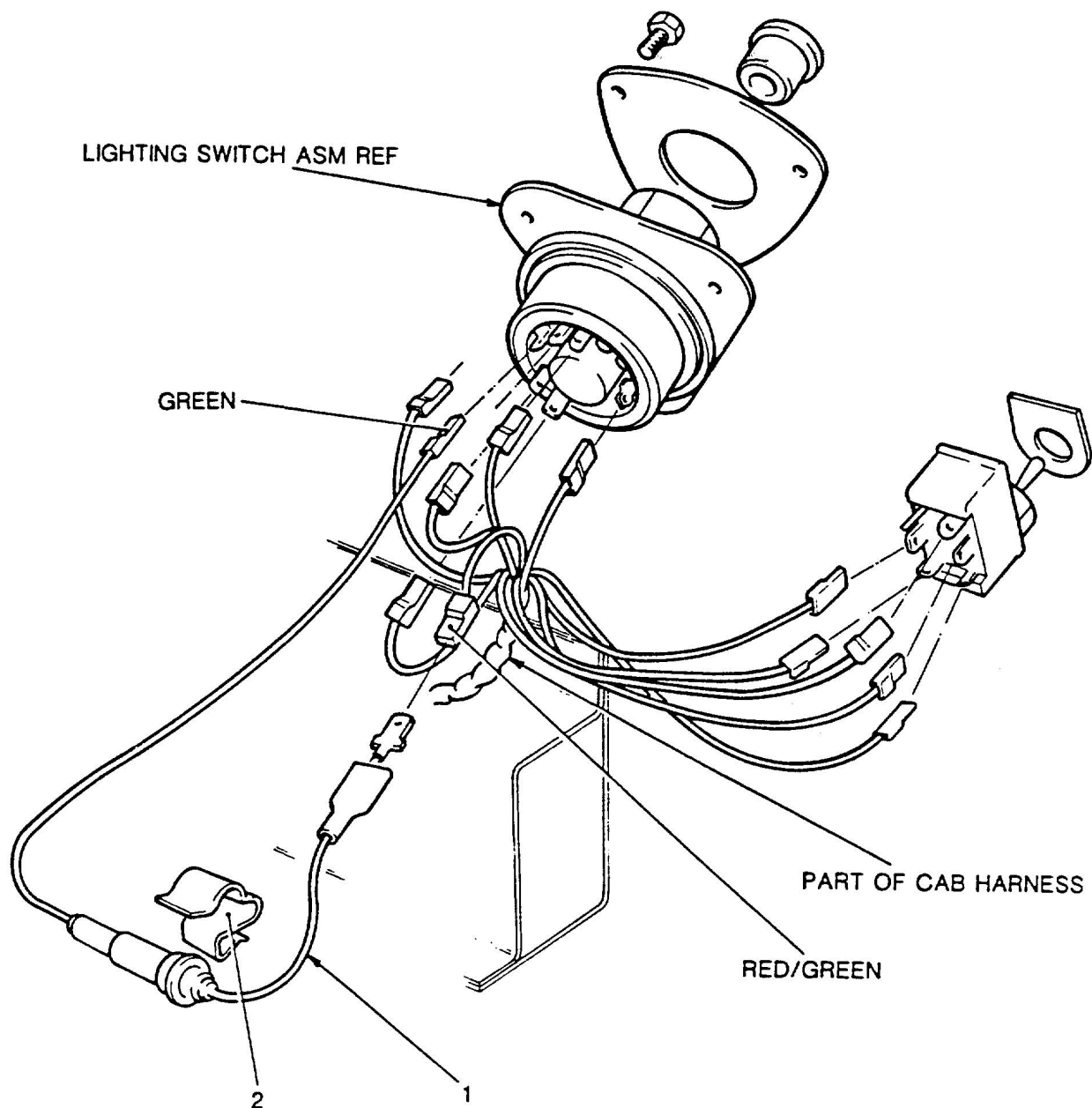
10 Nil

EFFECT ON WEIGHT

11 Negligible

PUBLICATION AMENDMENTS

12 Nil



V8224/1

Fig 1 Convoy lamp line fuse

TRUCK, 4 TONNE, 4x4, BEDFORD MJ

(ALL VARIANTS)

MODIFICATION INSTRUCTION No 17

Sponsor:
DGEME(A)

Publications Authority:
Vehs & Wpns Br REME
Project No: 71612 (94)
File ref: 0736/69

AMENDMENT RECORD

Amdt	Incorporated by	Date		Amdt	Incorporated by	Date
1				4		
2				5		
3				6		

SUBJECT: Strengthening of cab roof

INTRODUCTION

1 To improve the cab roof strength where a roof platform is not fitted a reinforcement kit is to be fitted to the inside of the roof panel enabling camouflaging and other duties to be carried out without deforming the roof panel. This Instruction provides all the necessary details.

1.1 Limitations on use of equipment: Nil

APPLICABILITY

2 Truck Cargo 4 tonne 4x4 Bedford MJ (EAC 2096 8100) with registration numbers from 82 KD 07-40 inclusive, held by user units.

REASON FOR MODIFICATION

3 Code 3 - to improve reliability

PRIORITY

4 Routine

ESTIMATED TIME REQUIRED

5 Embodiment: 6 man-hours

MODIFICATION IMPLEMENTATION PLAN

6

- 6.1 This modification is to be implemented by:
Units authorised to carry out levels 2, 3 and 4 maintenance.
- 6.2 Associated modification instructions: Nil.
- 6.3 Modification plate strike action: NA.

Action required by

7

7.1 Units and establishments holding equipment

- 7.1.1 Examine vehicle documents to see if modification is applicable.
- 7.1.2 Examine vehicle to see if modification is embodied and where necessary units with 1st Line REME Support demand the stores required.
- 7.1.3 On receipt of stores, request REME to modify equipment.
- 7.1.4 Record the modification Subject, AESP number and Army Modification Code in vehicle documents.

7.2 Units authorised to carry out Levels 2, 3 and 4 maintenance.

- 7.2.1 When requested by users or during overhaul of vehicles on charge without REME 1st Line Support, obtain the items listed in Para 8 and carry out this modification.
- 7.2.2 Record completion details of modification against appropriate entry in vehicle documents.
- 7.2.3 Complete AF G1084A when reporting completion of the modification to Data Centre using the following FORWARD codes:

7.3 All recipients of this instruction. Add particulars to AESP 2320-H-203-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded

- 8.1.1 The following modification set is to be demanded quoting this instruction as authority for demand, and
- 8.1.2 Registration number of vehicle for equipment held by user units.

<u>Item No</u>	<u>COSA Section</u>	<u>NSN/Part No</u>	<u>Designation</u>	<u>Qty per veh</u>
	7 BD	2510-99-008-5017	Mod set:	1
1		91137017	Comprising:	
2		91137016	Reinforcement, cross member	(1)
			Reinforcement, longitudinal member	(4)
3		7175750	'Pop' rivet sealed type	(132)

Sequence of operations

Note ...

The item numbers of Para 8 are used as references throughout this instruction.

9 Carry out the modification as follows:

9.1 Remove cab roof lining, for details refer to AESP 2320-H-100-522 Chapter 16 Para 142.

9.2 Refer to Fig 1 and fit longitudinal and cross member reinforcements (items 1 and 2) and secure with sealed pop rivets as indicated.

9.3 Paint affected areas.

9.4 Replace cab roof lining.

Testing after embodiment

10 Nil

PUBLICATION AMENDMENTS

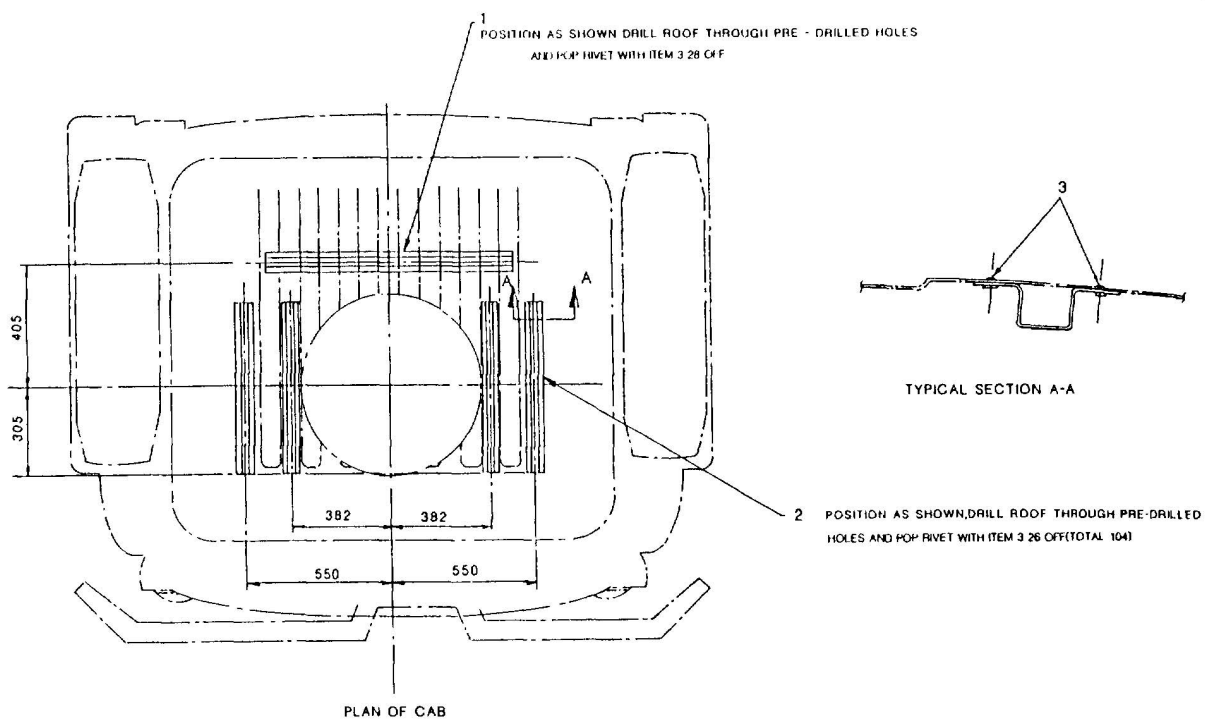


Fig 1 Cab reinforcement

V10132/1

TRUCK, 4 TONNE, 4 X 4, BEDFORD MJ (ALL VARIANTS)

MODIFICATION INSTRUCTION No 18

Sponsor:
DGEME(A)

Publications Authority:
Vehs & Wpns Br REME
Project No: 71612(114)
File ref: 0736/75

AMENDMENT RECORD

Amdt	Incorporated by	Date	Amdt	Incorporated by	Date
1			4		
2			5		
3			6		

SUBJECT: Tipper Controls
(12-2090)

INTRODUCTION

1 The original build tipper controls, (Hand Control Valve (HCV) and PTO selector cylinder), have been superseded by revised components. The revised HCV when fitted automatically disengages the PTO when the body is lowered. The revision was introduced during production therefore two build standards exist. The revised type can be recognised as having a switch complete with rubber boot mounted on the selector cylinder. This instruction provides all the necessary details to fit the revised components when failure occurs.

1.1 Limitations on use of equipment. NIL

APPLICABILITY

2 Truck tipper 4 tonne, 4 x 4 Bedford (EAC 2180-3100/8100) held by user units.

REASON FOR MODIFICATION

3 Code 5 - to conform to changes in pattern of commercial stores

PRIORITY

4 Routine

ESTIMATED TIME REQUIRED

5 Embodiment: HCV 2 man-hours, PTO Selector Cylinder 4 man-hours

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This modification is to be implemented by Units authorised to carry out levels 2, 3 and 4 maintenance.

6.2 Associated modification instructions. Nil

6.3 Modification plate strike action: NA

Action required by:

7

7.1 Units and establishments holding equipment

7.1.1 Examine vehicle documents to see if modification is applicable.

7.1.2 Examine vehicle to see if modification is embodied and where necessary units with 1st Line REME Support demand the stores required.

7.1.3 On receipt of stores, request REME to modify equipment.

7.1.4 Record the modification subject, AESP number and Modification Code in vehicle documents.

7.2 Units authorised to carry out levels 2, 3 and 4 maintenance

7.2.1 When requested by users or during overhaul of vehicles on charge without REME 1st Line Support, obtain the items listed in Para 8 and carry out this modification.

7.2.2 Record completion details of modification against appropriate entry in vehicle documents.

7.2.3 Complete AF G1084A when reporting completion of the modification to Data Centre using the following FORWARD codes:

EQUIPMENT CODE: See Para 2
MODIFICATION CODE: NN0000

7.3 All recipients of this instruction. Add particulars to AESP ref 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded

8.1.1 The following items and modification set are to be demanded quoting this instruction as authority for demand, and

8.1.2 Registration number of vehicle for equipment held by user units.

<u>Item No</u>	<u>COSA Section</u>	<u>NSN/Part No</u>	<u>Designation</u>	<u>Qty per eqpt</u>
	7EDT	5930-99-470-7710	Mod Set: Fitting Kit warning light switch PTO selection	1
1			Comprising: warning light switch c/w rubber boot	(1)
2			'Tee' piece	(1)
3			Ferrule (1/4 BSPT)	(2)
4			Olive	(2)
5			Tube nut	(2)
6	7EDT	2520-99-758-0605	Hand control valve	1
7	7EDT	2520-99-910-8727	PTO selector	1

8.2 Stores or suitable equivalent to be obtained locally

8	Y2	5340-99-933-3089	Cable tie	As reqd
---	----	------------------	-----------	---------

8.3 Stores to be removed and returned to RAOC/reduced to scrap

9		EDBRO SA 2096	Hand control valve	1
10		EDBRO TLA 14	PTO selector	1

Sequence of operations

Note ...

The item numbers of Para 8 as references throughout this instruction.

9 Carry out the modification as follows:

9.1 When fitting the PTO selector (item 7) in place of the original type (item 10) the switch, which is an integral part of item 7 remains unused. The warning light complete with switch, mounted in the Hand Control Valve housing will continue to operate.

9.2 When fitting the Hand Control Valve (item 6) in place of the original type (item 9) the remote warning light switch kit (items 1-5) must be fitted as follows:

9.2.1 Locate the PTO air feed pipe from the Hand Control (the ports on the Hand Control Valve are marked).

9.2.2 Fit the tee piece (item 2) in the pipe as close as possible to the Hand Control Valve using the fixings (item 3-5).

9.2.3 Fit the warning light switch (item 1) to the 'tee' piece.

9.3 The remote warning light switch must be wired as follows:

9.3.1 Locate the original wires fed to the warning light.

9.3.2 Using suitable cables and connectors. Connect the "24v+" feed wire to the remote warning light switch.

9.3.3 Connect the second terminal on the switch to the warning light bulb holder (bulb feed).

9.3.4 Connect the bulb holder 'earth' lead to the "24v-" earth lead.

9.4 When fitting the revised Hand Control Valve and PTO selector (item 6 and 7), the warning light switch mounted on the selector must be wired in accordance with Para 9.3. Run the new cables to the Hand Control Valve using tie wraps (item 8) to secure them safely to the PTO air feed pipe.

Testing after embodiment

10 Nil

EFFECT ON WEIGHT

11 Negligible

PUBLICATION AMENDMENTS

12 Necessary amendments will be issued separately.

TRUCK, 4 TONNE, 4 X 4

BEDFORD MJ (ALL VARIANTS)

MODIFICATION INSTRUCTION No 19

Sponsor:
DGES(A)

Publications Authority:
Vehs & Wpns Br REME
Project No: 71712(134)
File ref: 0736/70

AMENDMENT RECORD

Amdt No	Incorporated By (Signature)	Date	Amdt No	Incorporated By (Signature)	Date
1			4		
2			5		
3			6		

**SUBJECT: Transmission hand brake shield
(12-2074)**

INTRODUCTION

1 This Instruction introduces a shield to the transmission brake backplate to stop the ingress of debris. The wear rate of shoes and drums, which should in principle last the life of the vehicle, should reduce to acceptable levels with the embodiment of this modification. All the necessary details are provided.

1.1 Limitations on use of equipment. Nil

APPLICABILITY

2 Truck, 4 Tonne, 4 x 4, Bedford MJP (all variants) held by user units.

REASON FOR MODIFICATION

3 Code 3 - to improve reliability

PRIORITY

4 ARMY: Routine, no later than the next maintenance interval
RAF: Class 3

ESTIMATED TIME REQUIRED

5 Embodiment: 3 man-hour.

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This modification is to be implemented by:

ARMY - Units authorised to carry out levels 2, 3 and 4 maintenance.

RAF - Units not later than the next lubrication maintenance.

6.2 Associated modification instructions. Nil

6.3 Modification plate strike action: Nil

Action required by

7

7.1 Units and establishments holding equipment.

7.1.1 Examine vehicle documents to see if modification is applicable.

7.1.2 ARMY - Examine vehicle to see if modification is embodied and where necessary units with 1st Line REME Support demand the stores required.

RAF - Examine vehicle to see if modification is embodied and where necessary demand the stores required.

7.1.3 ARMY - On receipt of stores, request REME to modify equipment.

7.1.4 ARMY - Record the modification Subject, AESP number and Army Modification Code in vehicle documents

RAF - Record modification details on RAF Form 4870 and AF G1084A. Units operating STAMA are also to record modification details on ADP MTMS Job Certification Sheet and to follow procedures laid down in AP 100C-08A.

7.2 Army units authorised to carry out levels 2, 3 and 4 maintenance, and RAF units.

7.2.1 ARMY - When requested by users or during overhaul of vehicles on charge without REME 1st Line Support, obtain the items listed in Para 8 and carry out this modification.

RAF - On receipt of stores, embody the modification.

7.2.2 Record completion details of modification against appropriate entry in vehicle documents.

7.2.3 Complete AF G1084A when reporting completion of the modification to Data Centre using the following FORWARD codes:

ARMY: EQUIPMENT CODE: See Para 2
MODIFICATION CODE: NNØØØØ
RAF: MODIFICATION CODE: AFC 265

NOTE

RAF Units operating STAMAS are also to complete ADP MTMS Job Certification Sheet and to follow the procedures laid down in AP 100C-08A.

7.3 All recipients of this modification. Add particulars to AESP ref 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded.

8.1.1 The following item is to be demanded quoting this instruction as authority for demand.

Item No	COSA Section	NSN/Part No	Designation	Qty per eqpt
1	6MT9	2530-99-056-2679	Shield	1

Sequence of operations

NOTE

The 'item numbers' of Para 8 are used as reference throughout this instruction.

9 Carry out this modification as follows:

- 9.1 Remove the rearmost propeller shaft complete.
- 9.2 Remove the transmission brake drum and shoes.
- 9.3 Refer to AESP Cat 522, repair Instr, Chapter 5 Para 22 and remove the pinion flange.
- 9.4 Remove the transmission brake backplate.
- 9.5 Fit the shield (item 1) to the axle using the same mountings as the backplate, replace the backplate, leave the bolts slack.
- 9.6 Refer to Cat 522 Chapter 5 and replace the pinion flange.

9.7 Position the shield (item 1) so the clearance to the pinion flange is equal around its circumference. Ensure that no foul occurs.

9.8 Fully tighten the backplate/shield securing bolts.

9.9 Replace the brake shoes, drum and propeller shaft.

Testing after embodiment

10 Nil.

EFFECT ON WEIGHT

11 Nil.

PUBLICATION AMENDMENTS

NOTE

Necessary amendments will be issued separately.

12 Nil

TRUCK, 4 TONNE, 4 X 4, BEDFORD MJ (ALL VARIANTS)

MODIFICATION INSTRUCTION No 20

Sponsor:
DGES(A)

Publications Authority:
Vehs & Wpns Br REME
Project No: 71712(169)
File ref: 0736/71

AMENDMENT RECORD

Amdt No	Incorporated By (Signature)	Date	Amdt No	Incorporated By (Signature)	Date
1	G R C Boyle	30/1/98	4		
2			5		
3			6		

**SUBJECT: SA80 rifle clip mountings
(12-1819)**

INTRODUCTION

1 This instruction introduces revised mounting brackets to accommodate SA80 rifles in place of the SLR. When required the interface brackets onto which the rifle butt and barrel mountings attach, must be manufactured locally to REME manufacturing drawings. Layouts to locate the weapons in alternative vehicle variants are provided together with all the necessary details to embody this modification.

1.1 Limitations on use of equipment. Nil

APPLICABILITY

2 Truck, 4 Tonne, 4 x 4, Bedford MJ, all variants held by user units.

REASON FOR MODIFICATION

3 Code 6 - other reasons - to allow SA80 rifle to be carried

PRIORITY

4 ARMY: Routine
RAF: Class 3

ESTIMATED TIME REQUIRED

5 Embodiment: 4 to 6 man-hours depending on variant.
Manufacturing: 8 to 10 man-hours depending on variant.

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This modification is to be implemented by:

ARMY - Units authorised to carry out levels 2, 3 and 4 maintenance.

RAF - Units when requested.

6.2 Associated modification instructions. Nil

6.3 Modification plate strike action: Nil

Action required by

7

7.1 Units and establishments holding equipment.

7.1.1 Examine vehicle documents to see if modification is applicable.

7.1.2 ARMY - Examine vehicle to see if modification is embodied and where necessary units with 1st Line REME Support demand the stores required.

RAF - Examine vehicle to see if modification is embodied and where necessary demand the stores required.

7.1.3 ARMY - On receipt of stores, request REME to modify equipment.

7.1.4 ARMY - Record the modification Subject, AESP number and Army Modification Code in vehicle documents.

RAF - Record modification details on RAF Form 4870 and AF G1084A. Units operating STAMA are also to record modification details on ADP MTMS Job Certification Sheet and to follow procedures laid down in AP 100C-08A.

7.2 Army units authorised to carry out levels 2, 3 and 4 maintenance, and RAF units.

7.2.1 ARMY - When requested by users or during overhaul of vehicles on charge without REME 1st Line Support, obtain the items listed in para 8 and carry out this modification.

RAF - On receipt of stores, embody the modification.

7.2.2 Record completing details of modification against appropriate entry in vehicle documents.

7.2.3 Complete AF G1084A when reporting completion of the modification to Data Centre using the following FORWARD code:

ARMY: EQUIPMENT CODE: See Para 2
MODIFICATION CODE: NN0000
RAF: MODIFICATION CODE: AFC 268

NOTE

RAF Units operating STAMA are also to complete ADP MTMS Job Certification Sheet and to follow the procedures laid down in AP 100C-08A.

7.3 All recipients of this instruction. Add particulars to AESP 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded.

8.1.1 The following items are to be demanded quoting this instruction as authority for demand, and

8.1.2 Registration number of vehicle for equipment held by user units.

Item No	COSA Section	NSN/Part No	Designation	Qty per eqpt
1	6MT1	2540-99-740-7338	Mounting rifle barrel	As Reqd
2	6MT1	2540-99-740-7339	Mounting rifle butt	As Reqd
3	7BD	2510-99-802-1513	Buffer	As Reqd

8.2 Stores or suitable equivalent to be obtained locally.

4	G1	5305-99-122-5360	Machine screw metric coarse M6 x 16 x 1	As Reqd
5	G1	5310-99-624-3132	Washer, flat M6	As Reqd
6	G1	5310-99-122-5495	Nut, self locking M6 x 1	As Reqd
7	G1	5305-99-122-5366	Machine screw metric coarse M8 x 20	As Reqd
8	G1	5310-99-977-1085	Washer, flat M8	As Reqd
9	G1	5310-99-122-5496	Nut, self locking M8	As Reqd

Item No	COSA	NSN/Part No Section	Designation	Qty per eqpt
10	G1	5305-99-122-5368	Machine screw metric coarse M8 x 30	As Reqd

8.3 Stores to be manufactured.

11		002621	Bracket, rifle butt mounting	As Reqd
12		002622	Bracket, rifle barrel mounting	As Reqd
13		002623	Bracket, rifle butt mounting	As Reqd
14		002624	Bracket, rifle butt mounting	As Reqd
15		002625	Bracket, rifle barrel mounting	As Reqd
16		002626	Bracket, rifle barrel mounting	As Reqd
17		002627	Bracket, rifle butt mounting	As Reqd

NOTE

Drawings for items 11 to 17 can be obtained from:

The Chief Draughtsman
LSTPA
Repository Road
Woolwich, SE18 4QA

quoting the REME Drawing No reqd in accordance with EMER Mgmt Y030.

Sequence of operations

NOTE

The 'item numbers' of Para 8 are used as reference throughout this instruction.

9 Carry out this modification as follows:

9.1 GS Variant (2 and 3 seater).

9.1.1 Refer to Fig 1, parcel shelf drilling details. Drill holes through the shelf and insulation as illustrated.

9.1.2 Manufacture or arrange for the manufacture of quantity 2 rifle butt mounting brackets (item 13).

9.1.3 Refer to Fig 2 and secure brackets (item 13) and mountings (items 1 and 2) to the parcel shelf using fixings (items 4, 5 and 6 and 7, 8 and 9). When securing the r.h barrel mounting (item 1) locally produced spacers will be required as illustrated.

9.2 GS Variant (3 seater) and FFR.

9.2.1 Refer to Figs 3, 4 (RHD) and 5 (LHD) instrument panel mounting drilling detail. Drill holes through the instrument panel as illustrated ensuring that the area on the underside is clear.

9.2.2 Manufacture or arrange for the manufacture of one barrel mounting bracket (item 12) and one butt mount bracket (item 11).

9.2.3 Secure brackets (items 11 and 12) and mountings (items 1 and 2) to the instrument panel using fixing (items 4, 5 and 6 and 7, 8 and 9) as illustrated.

9.3 FFR and Truck fuel servicing variants.

9.3.1 Refer to Fig 6, engine cover drilling detail. Drill holes through engine cover ensuring that the correct holes (L or RHD) are used and the area on the underside is clear.

9.3.2 Manufacture or arrange for the manufacture of one butt mounting bracket (item 14), one barrel mounting bracket (item 15) RHD or (item 16) LHD, one butt mounting bracket (item 13) and one butt mounting bracket (item 17).

9.3.3 Refer to Fig 7 (RHD) or 8 (LHD). Secure the brackets (items 13, 14, 15 or 16 and 17) and mountings (items 1 and 2) to the engine cover using fixings (items 4, 5, 6, 7, 8, 9 and 10) and buffer (item 3) as illustrated.

9.4 Paint all affected areas.

Testing after embodiment

10 Nil.

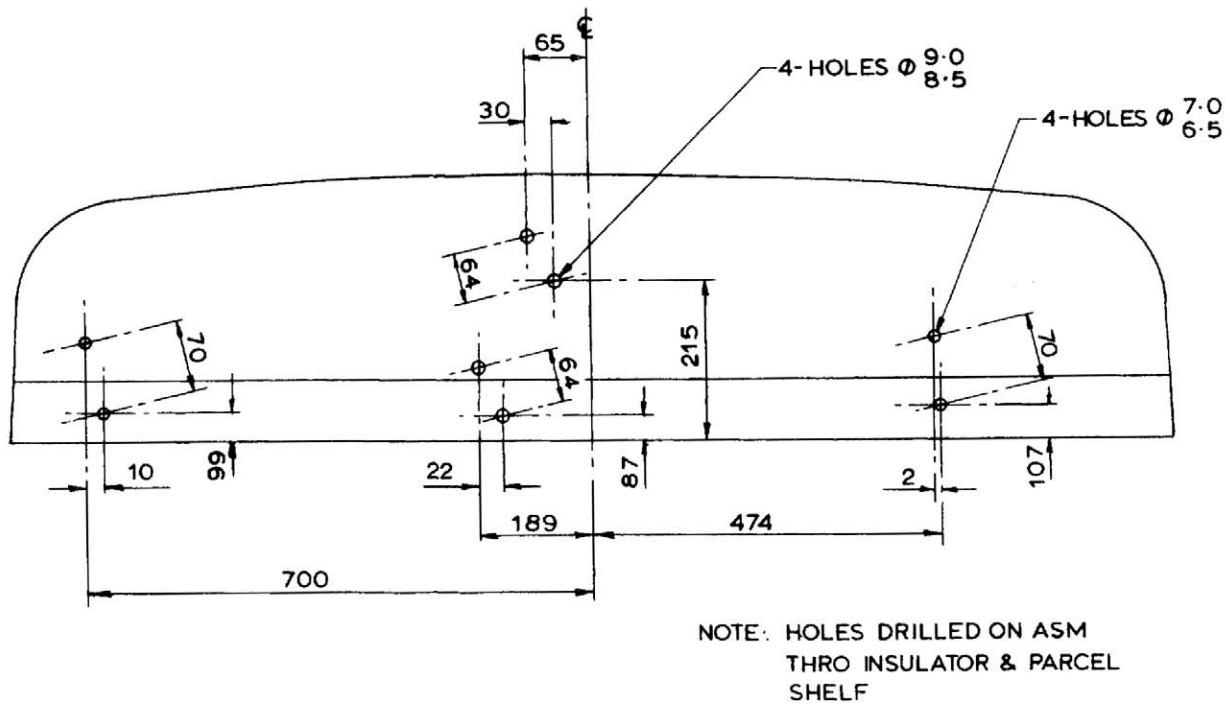
EFFECT ON WEIGHT

11 Nil.

PUBLICATION AMENDMENTS

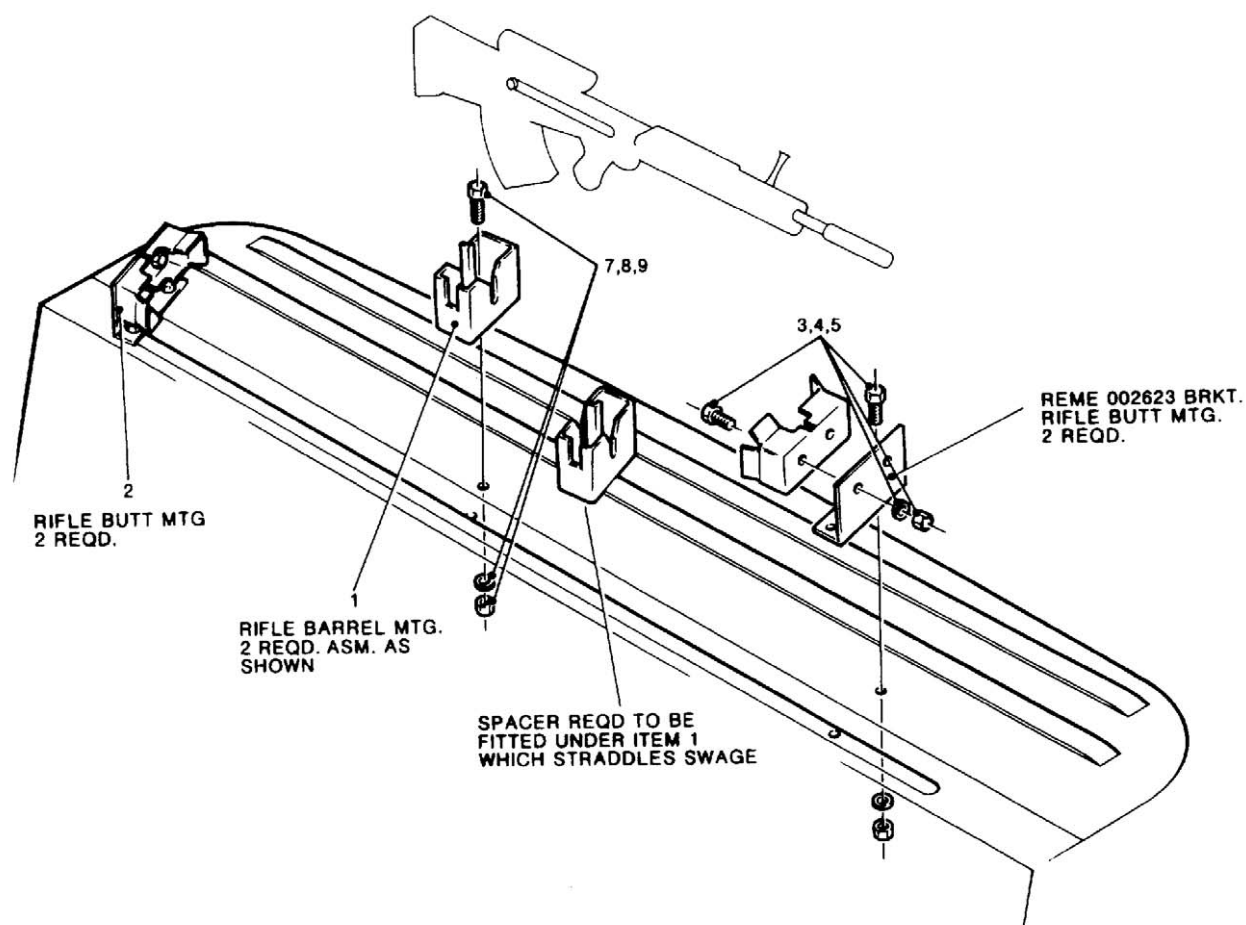
NOTE

12 Necessary amendments will be issued separately.



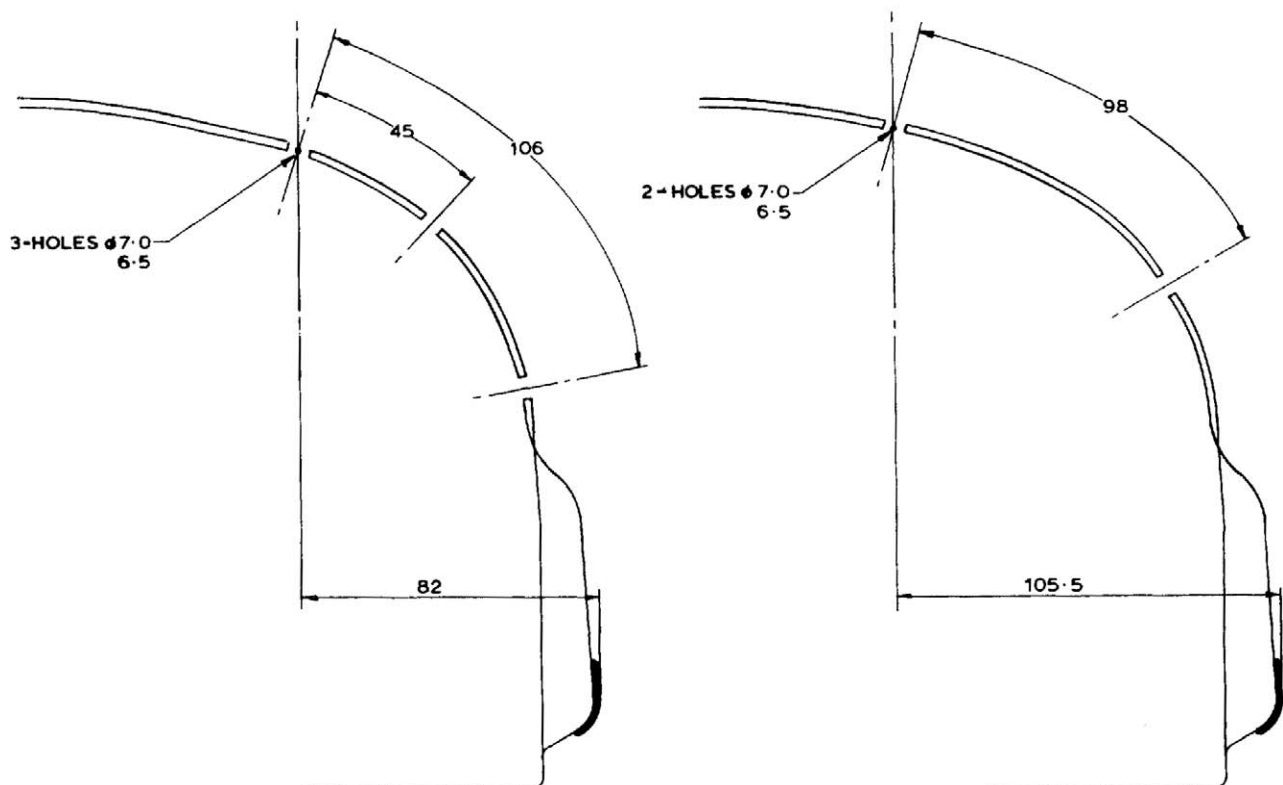
V9940/2

Fig 1 Parcel shelf mounting – drilling detail
(2 and 3 seater GS variants)



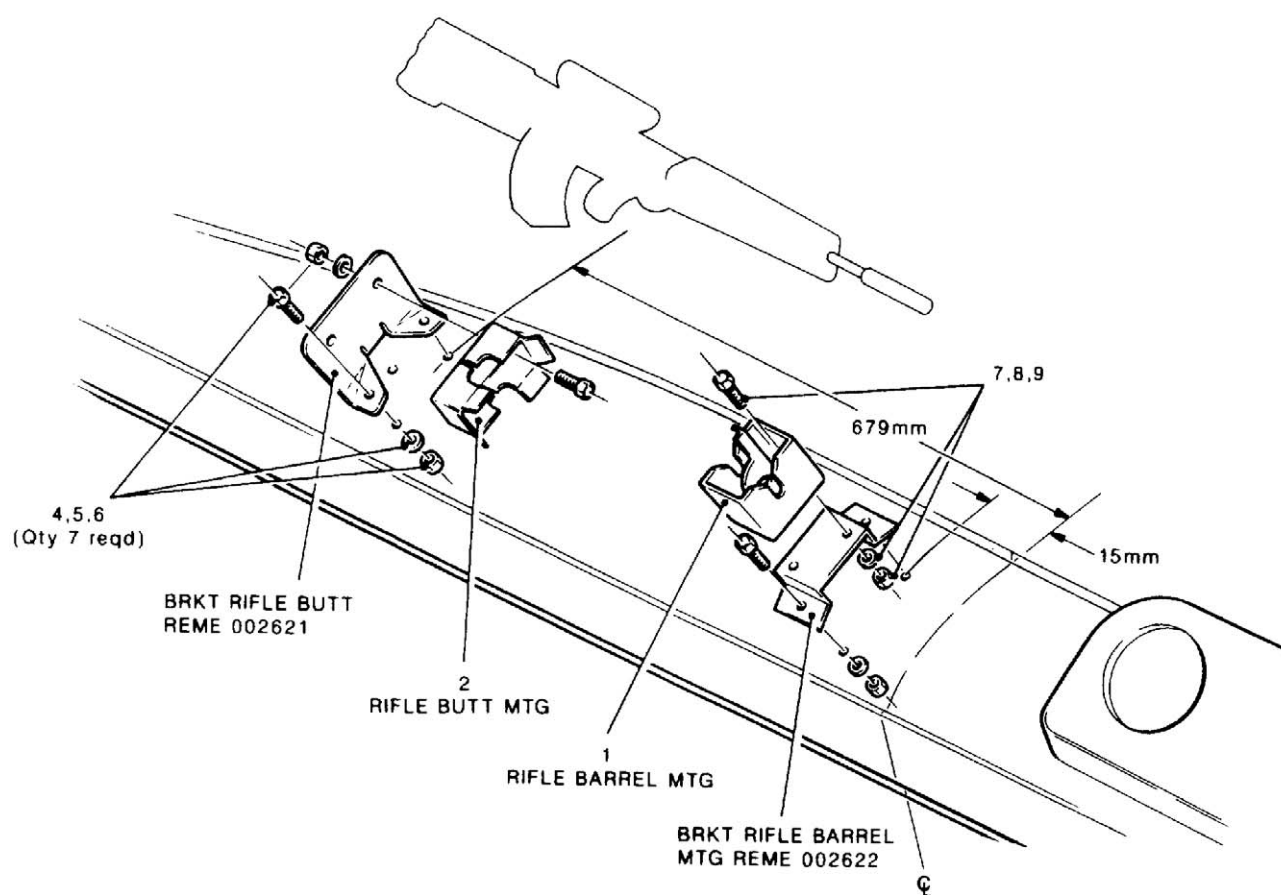
V9940/1

Fig 2 Parcel shelf – general arrangement
(2 and 3 seater GS variant)



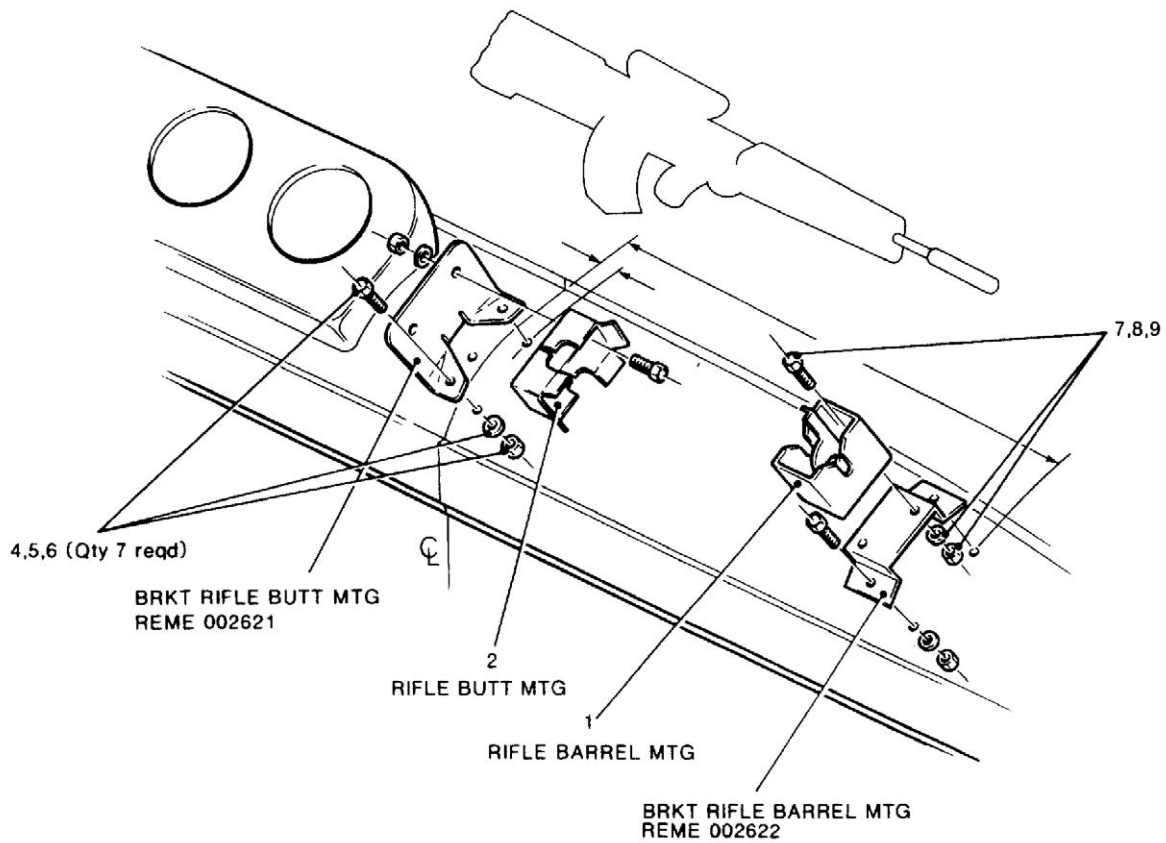
V9940/5

Fig 3 Instrument panel mounting – drilling detail
(to be used in conjunction with Figs 4 and 5)



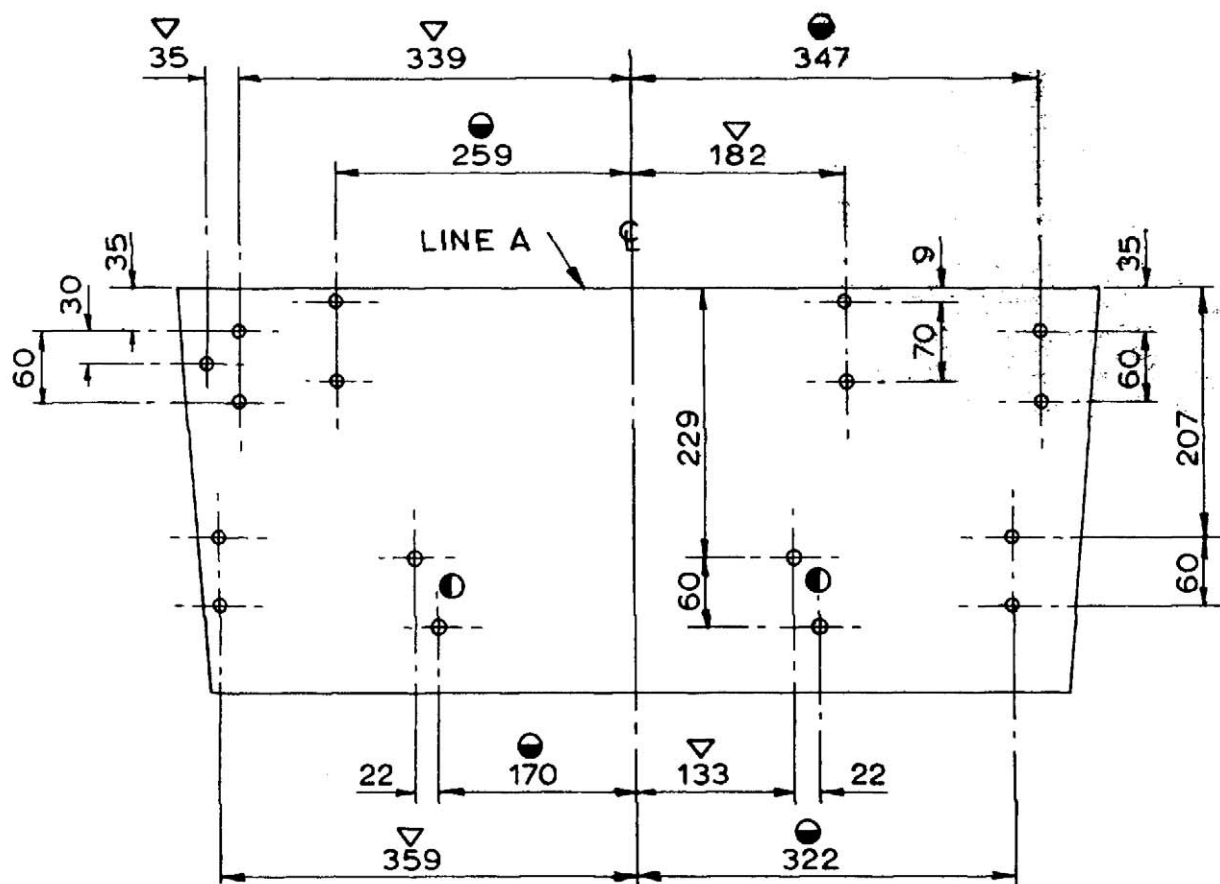
V9940/3

Fig 4 Instrument panel – general arrangement RHD



V9940/4

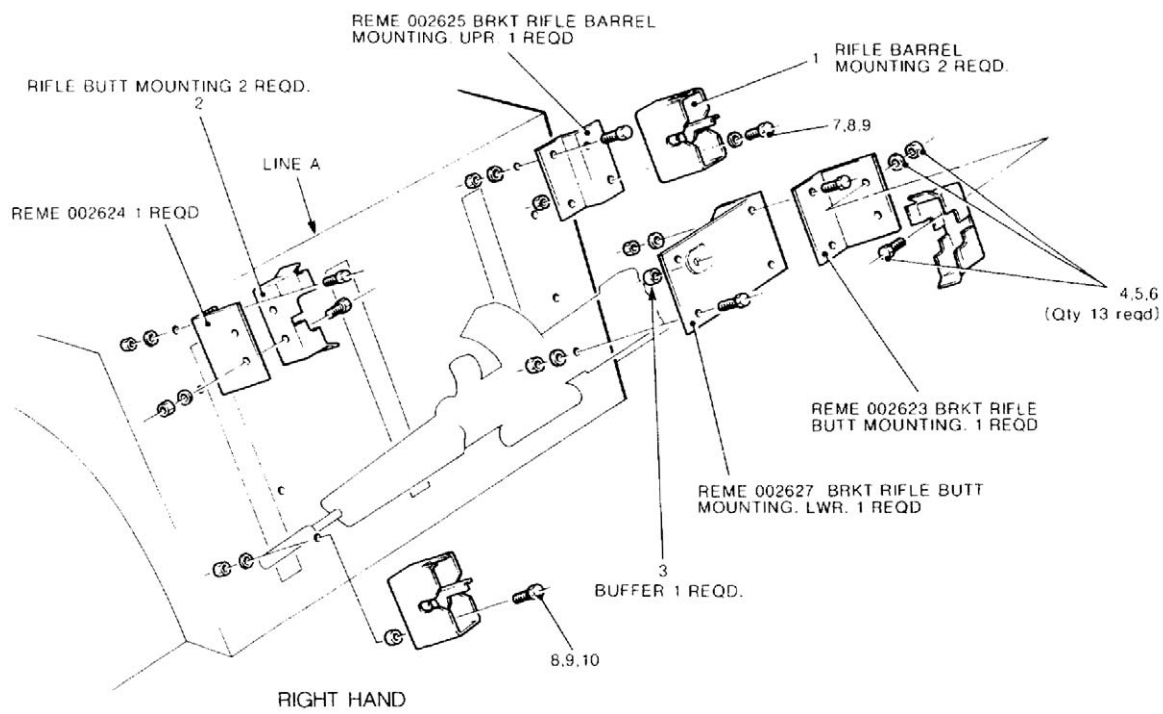
Fig 5 Instrument panel – general arrangement LHD



- ▽ REQD L.D.
 ● REQD R.D.
 ● ⌀ 9.0
 8.5 HOLES
 ALL OTHER HOLES ⌀ 7.0
 6.5

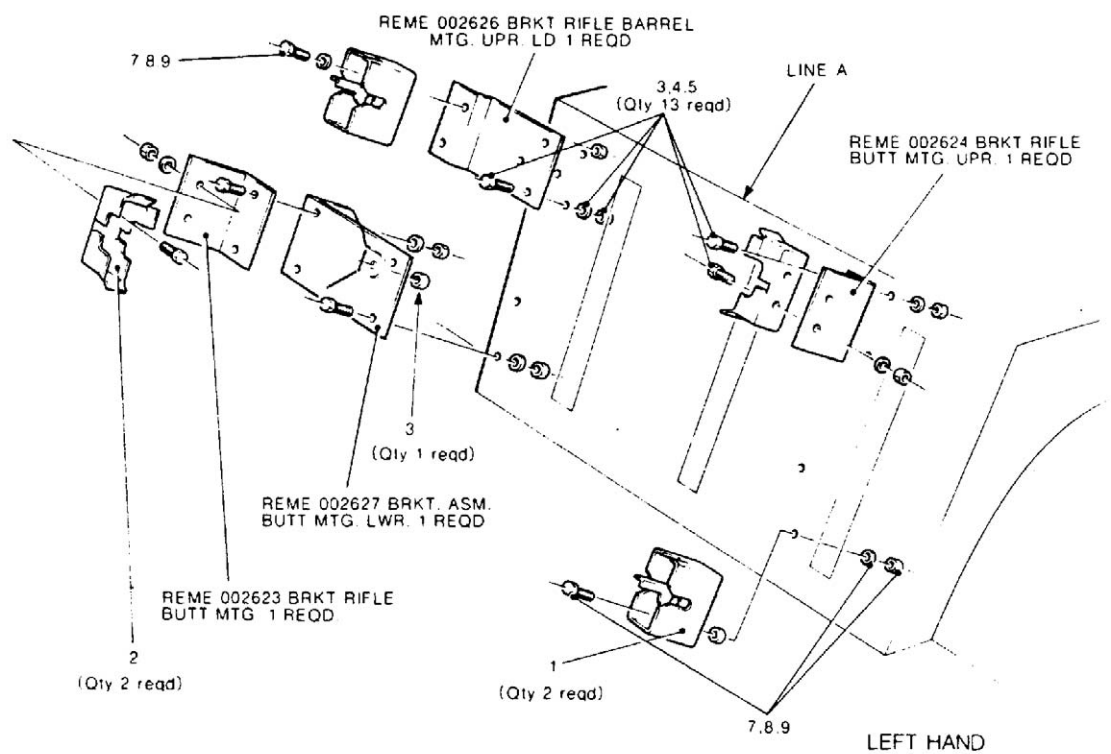
V9939/3

Fig 6 Engine cover mounting – drilling detail



V9939/1

Fig 7 Engine cover mounting – general arrangement RHD



V9939/2

Fig 8 Engine cover mounting – general arrangement – LHD

**TRUCK, 4 TONNE, 4X4, BEDFORD MJ (ALL VARIANTS)
MODIFICATION INSTRUCTION 21**

CANCELLATION

INTRODUCTION

1 This Amendment authorizes the cancellation of AESP 2320-H-100-811 Modification Instruction 21. The third generation fuel tanks were never procured.

ACTION

- 2 Remove all pages of AESP 2320-H-100-811 Modification Instruction 21 and destroy them.
- 3 File this amendment in its place.

Amendment record

- 4 Record the incorporation of this Amendment.

**TRUCK, 4 TONNE, 4 x 4, BEDFORD MJ
(ALL VARIANTS)**

**MODIFICATION INSTRUCTION NO. 22
(Completely revised)**

Sponsor:
DGES(A)

Publication Agency:
ATSA Chertsey
Project No: ES52c 4370/LVG(428)
File ref: DE/CH/LVG/0736/A

AMENDMENT RECORD

Amdt No.	Incorporated By (Signature)	Date
1		
2		
3		

Amdt No.	Incorporated By (Signature)	Date
4		
5		
6		

SUBJECT: Fitting of MT cab
(Approval No. 4370)

INTRODUCTION

1

1.1 The Tactical Aircraft Refueller (TAR) Mk 5B was fitted with the MT cab during a programme. Should replacement of the MT cab be considered necessary the following instruction will apply. This instruction provides all the necessary details.

1.2 Some MJ GS variants have the MT cab fitted, should these cabs become damaged beyond repair the vehicle is to be cast in accordance with normal procedures.

APPLICABILITY

2 Truck, 4 Tonne, 4 x 4, Bedford MJ, TAR Mk 5B EAC NB 2165 3102 and 2165 8102.

REASON FOR MODIFICATION

3 Code 5 - to conform to changes in pattern of commercial stores.

PRIORITY

4

4.1 ARMY: Routine.

4.2 RAF: Class 3.

ESTIMATED TIME REQUIRED

5

5.1 Dismantling: 3 man-hours.

5.2 Embodiment: 10 man-hours.

5.3 Assembling: 1 man-hours.

5.4 Testing: 0.5 man-hours.

5.5 Manufacturing: 1 man-hours.

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This modification is to be implemented by:

6.1.1 ARMY - Units authorized to carry out levels 2, 3 and 4 maintenance.

6.1.2 RAF - Units as and when required.

6.2 Associated modification instructions. Nil.

6.3 Modification plate strike action: Nil.

Action required by

7

7.1 Units and establishments holding equipment:

7.1.1 Examine vehicle documents to see if modification is applicable.

7.1.2 Examine equipment or modification record plate to see if modification is embodied and where necessary Units with 1st Line REME Support demand the stores required.

7.1.3 ARMY - On receipt of stores, request REME to modify equipment.

7.1.4 ARMY - Record the modification subject and AESP number in equipment documents.

7.1.5 RAF - Record modification details on AF G1084A and Form 4870. Units operating STAMA are also to record modification details on ADP MTMS Job Certification Sheet and to follow the procedures laid down in AP 100C-08A.

7.2 Army units authorized to carry out levels 2, 3 and 4 maintenance and RAF units:

7.2.1 ARMY - When requested by users or during overhaul of equipment on charge without REME 1st Line Support, obtain the items listed in Para 8 and carry out this modification.

7.2.2 RAF - On receipt of stores, embody the modification.

7.2.3 Complete AF G1084A when reporting completion of the modification to FORWARD (RAF) using the following code:

7.2.3.1 RAF: MODIFICATION CODE - AFC 281

NOTE

RAF units operating STAMA are also to complete ADP MTMS Job Certification Sheet and to follow the procedures laid down in AP 100C-08A.

7.3 All recipients of this instruction. Add particulars to AESP 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded:

8.1.1 The following items and modification set are to be demanded quoting this instruction as authority.

8.1.2 Registration number of vehicle for equipment held by user units.

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
A	7BD	2510-99-950-3279	Cab assy: Left Hand Drive Variants.	1
B	7BD	2510-99-001-6834	Cab assy: Right Hand Drive Variants.	1
1		A4024620	R.h. bumper section.	(1)
2		A4024621	L.h. bumper section.	(1)
3		91126012	Headlight protector.	(2)
4		91126011	Headlight support.	(2)
5		11027991	Bolt M6 zinc plated coarse x 16 mm.	(2)*
6	G1	5310-99-203-6405	Washer 6 mm x 1.5 mm thk.	(2)*
7	G1	5310-99-122-5295	Nut plain, hex, 6 mm x 1.00 mm thk.	(2)*
8		11010796	Bolt.	(4)
9	G1	5310-99-530-0155	Washer 12 mm x 21 mm o.d. x 2.4 mm thk.	(8)
10	G1	5310-99-122-5298	Nut plain, hex 12mm.	(4)
11		11066503	Bolt M6 zinc plated coarse x 30 mm.	(4)
12		A4037831	Centre bumper bracket.	(1)
13		A4037837	Tow hook reinforcement plate.	(1)
14		A4039617	R.h. bumper assembly bracket.	(1)
15		A4039618	L.h. bumper assembly bracket.	(1)
16		A4040279	Temperature sender unit.	(1)
17		A4021323	Oil pressure switch.	(1)
18		A4031922	Fuel tank sender unit.	(1)
19		6379097	NATO tow hook.	(1)

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
20	G1	5306-99-941-0362	Bolt machine 5/8 UNF x 3 in. lg.	(4)
21		0121358	Nut.	(4)
22	G1	5305-99-135-0424	Screw .	(8)
23	G1	5310-99-122-5643	Nut self locking 4 mm.	(8)
24	G1	5310-99-203-6405	Washer lock.	(8)*
25	G1	5305-99-122-8579	Bolt screw, cap, 6 mm x 16 mm lg.	(8)*
26	G1	5310-99-122-5295	Nut plain, hex, 6 mm.	(8)*
27		6315014	Pedal rubber.	(2)
28		A4039669	Durloc bolts.	(8)
29		A4039670	Nut M 12 x 1.75.	(8)
30		6330780	Cab mount pad (rear).	(2)
31		6344756	Cab mount pad (front).	(2)
32		7187583	Bush.	(2)
33		11010091	Washer 8.4 mm i.d x 17 mm o.d. x 1.6 mm thk.	(3)
34		91033745	Spring clip.	(2)
35	6MT1	5364-99-941-0215	Ring retaining.	(4)
36		11010024	Washer 10.5 mm i.d x 21 mm o.d. x 2 mm thk.	(2)
37	7BD	3130-99-821-9997	Washer lock 0.46 id x 0.694 o.d.	(2)
38	G1	5305-99-136-1740	Screw self tapping 0.750 in. lg.	(4)
39	6MT1	5365-99-914-0215	Ring retaining.	(1)
40		91004661	Radiator overflow pipe.	(1)
41		A4039820	Harness.	(1)
42		A4039821	Harness.	(1)
43		NPN	Earth lead.	(2)
44		NPN	Olive (air gauge).	(2)
45		NPN	Nuts (air gauge).	(2)

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
46		A4028302	Headlamp and harness assembly 24 v right hand drive.	(2)
47		A4028303	Headlamp and harness assembly 24 v left hand drive.	(2)
48		A4037832	R.h.d cab shell.	(1)
49		A4037833	L.h.d cab shell.	(1)
50	7BD	4730-99-874-0756	Inverted nut 3/16 in.	(2)
51	6MT6	4710-99-810-7778	Tubing plastic nylon 3/16 in.	(5 m)
52	6MT1	5340-99-618-3776	Cable ties.	(20)
53	6MT1	6680-99-833-7449	Shaft assembly flexible (r.h.d tachometer cable for use on l.h.d variants only).	(1)
54	7BD	4730-99-930-8895	Coupling quick disconnect 1/4".	(1)
55	7BD	4730-99-356-7547	Coupling quick disconnect 3/8".	(2)

* denotes parts used in more than one location

8.2 Stores or suitable equivalent to be obtained locally:

Nil.

8.3 Tools and stores to be manufactured:

Nil.

8.4 Stores to be removed reduced to scrap:

56		NPN	Cab complete.	(1)
57	7BD	2540-99-828-4839	Bumper vehicular l.h.	(1)
58	7BD	2540-99-828-4840	Bumper vehicular r.h.	(1)
59	7BD	2540-99-828-5200	Bracket towing eye.	(1)
60	6MT13	2540-99-825-6118	Pintle towing.	(1)

Sequence of operations

9 Carry out the modification as follows:

NOTE

The 'item numbers' of Para 8 are used as references throughout this instruction.

9.1 Remove existing bumper assembly ie.

9.1.1 Two of outer sections complete with headlight units.

9.1.2 Centre bracket.

9.1.3 Hook assembly.

9.2 Remove front bumper mounting brackets from chassis rails (2 of l.h. and r.h.).

9.3 Remove cab as per the following instructions: (refer also to AESP 2320-H-100-523).

9.3.1 Disconnect earth lead at battery. Remove earth lead from master switch and positive lead from starter motor.

9.3.2 Disconnect handbrake cable. Remove handbrake fulcrum and pinchbolt – retain for use on new cab.

9.3.3 Disconnect throttle linkage at relay clevis pin.

9.3.4 Locate the brake and trailer air gauge pipes behind radiator grille and cut forward of connecting unions.

9.3.5 Remove air cleaner elbow from air filter and turbo inlet (mask inlet to prevent ingress of foreign objects).

9.3.6 Disconnect PTO linkages (if fitted) at clevis pins on ends of operating levers and withdraw from bracket.

9.3.7 Disconnect air pipes to air system alcohol evaporator reservoir.

9.3.8 Disconnect the coolant system and disconnect header tank and heater hoses.

9.3.9 Disconnect steering column flexy coupling from steering box.

9.3.10 Remove gear lever knob and locknut – retain for use on new cab.

9.3.11 Remove brake and clutch pedals – retain for use on new cab.

9.3.12 Disconnect engine services cables at rear of ignition switch and disconnect chassis harness underneath heater unit.

9.3.13 Disconnect transfer gearbox lever cables from lever ends.

9.3.14 Disconnect winch control cables (if fitted) and remove lever – retain items removed for use on new cab.

9.3.15 Remove internal and external fire extinguishers and brackets – retain for use on new cab.

9.3.16 Remove side mirrors – retain for use on new cab.

9.3.17 Remove the 4 cab securing bolts, nuts and washers – retain for use on new cab.

9.3.18 Remove cupola cover stowage bracket from rear of cab – retain for use on new cab.

9.3.19 Using suitable beam, padded at area of contact with cab door opening, slowly raise cab checking for anything that may snag while lifting.

CAUTION

EQUIPMENT DAMAGE. The doors must not be closed when lifting cab.

9.4 Before commencing fitment of new cab, carry out the following to the MT cab and existing chassis.

- 9.4.1 Remove grille on new cab - 8 screws located inside cab.
- 9.4.2 Replace cab mounting pads in chassis with (items 30 and 31).
- 9.4.3 Fit handbrake fulcrum pin and pinchbolt.
- 9.4.4 Remove unions from trailer brake and trailer gauge air pipes and fit quick disconnect couplings (located on air pipes fitted to new cab).
- 9.4.5 Replace engine oil pressure switch (item 17) and earth lead (item 43). (Chassis return variants only).
- 9.4.6 Replace coolant temperature sender unit (item 16).
- 9.4.7 Replace fuel tank sender unit (item 18) - for tank with top mounting aperture only.
- 9.4.8 Fit radiator overflow pipe (item 40) to cab.
- 9.4.9 Fit suitable piece of rubber pipe (1/2 in. i.dia x 2 ft long) on gear lever to facilitate routing of lever through gaiter.
- 9.4.10 Position tachometer and speedometer cables in centre of chassis so they can be inserted into the cab through grommets above the two hook.

NOTE

On l.h.d variants, a r.h. tachometer cable must be fitted and both speedometer and tachometer cables re-routed along the top of the l.h. chassis rail and above the brake fulcrum lever so they can be inserted into the cab through grommets alongside the l.h. 'A' post.

- 9.4.11 Some exchanging of the old throttle linkage may be needed to suit the differing variants. In particular, the transfer rod used on l.h.d variants.
- 9.4.12 Fit bumper brackets (items 14 and 15) using existing holes (3 off) using 'Durloc' nuts (item 29) and bolts (item 28) for chassis location. Drill 4th hole in chassis (12 mm dia) and torque all bolts to 220 Nm.
- 9.4.13 Fit side mirrors.
- 9.4.14 Fit cupola storage bracket.
- 9.4.15 Fit fire extinguishers and brackets.
- 9.4.16 Fit winch control lever (winch variant).
- 9.4.17 Fit PTO controls.
- 9.4.18 Remove V.I.N. plate from the original cab, produce a new plate, changing letter 'O' to a 'P' and fit to the new 'MT' cab.

eg Old Cab Plate SKFMJP2BMOFT 123456.
Change to:
New Cab Plate SKFMJP2BMPFT 123456.

9.5 Using the same lifting procedure as for the MJ cab, raise the MT cab into position above the chassis. On lowering new MT Cab, ensure that the gearshift-lever is located in aperture of new gearshift-gaiter. Once cab is in position, carry out the following:

- 9.5.1 Fit cab mounting bolts (4 off) making sure washers are fitted as detailed in AESP 2320-H-100-522 Ch 16 Pg 3.
- 9.5.2 Connect throttle rod to relay lever.
- 9.5.3 Route heater pipes to heater and connect.
- 9.5.4 Connect header pipe to radiator head tank.
- 9.5.5 Connect radiator overflow pipe to hose and replenish coolant.
- 9.5.6 Connect air pipes to alcohol evaporator reservoir and connect foot brake valve air pipes to cab.
- 9.5.7 Route and connect stop cable.
- 9.5.8 Route and connect idle control cable.
- 9.5.9 Connect transfer box lever cables as per original settings.
- 9.5.10 Connect PTO lever cable as per original settings.
- 9.5.11 Connect air cleaner elbow.
- 9.5.12 Fit brake and clutch pedals, centralise if required.
- 9.5.13 Connect steering column coupling to steering box. Remove steering column surround and tighten upper and lower steering column bracket bolts.
- 9.5.14 Connect and adjust hand brake cable.
- 9.5.15 Route, connect and secure (using cable ties) gauge pipes to foot brake valve.
- 9.5.16 Connect existing chassis trailer brake pipes to new push-in connector (item 55). Connect trailer warning air pipe (item 54).
- 9.5.17 Remove dash centre, route and connect existing tachometer and speedometer cables. R.h. vehicles through grommet holes in front centre of cab, l.h. vehicles through grommet holes in front left of cab.
- 9.5.18 Route existing battery cables into cab and connect to master switch.
- 9.5.19 Connect chassis electrical harness and engine harness to cab harness (including PTO, working lights and amber beacon switch cables on recovery variant).
- 9.5.20 Fit cab front panel and gearshift knob and locknut.
- 9.5.21 Align and tighten steering wheel. Fit wheel centre cover.
- 9.5.22 Secure all cables and air pipes using cable ties.

9.6 With cab in position and all items reconnected, front bumper bracket (item 12) can be fitted as follows:

9.6.1 Fit NATO tow hook (item 19) with 1 bolt (item 25) secured through lower r.h. hole (viewed from the front), with tow hook reinforcing plate (item 13) fitted inside front crossmember.

9.6.2 Mark position of remaining holes 3 holes as per Fig 1, using lower r.h. (viewed from the front) hole as datum.

9.6.3 Ensure clearance between bumper and cab, when fitting outer bumper assemblies (items 1 and 2). Align and tighten complete bumper assembly to a torque of 78 Nm.

9.6.4 Drill remaining three holes for the tow hook to 17.5 mm (11/16") diameter. Drill lower l.h. bolt hole last, using tow hook secured by other 3 bolts as a template. Fit all bolts and torque to 136 Nm.

9.6.5 Remove wash bottle from inside cab and remove trim panel. Feed headlamp wires through grommets in A posts and connect headlamp multi plugs.

9.6.6 Refit radiator grille.

Testing after embodiment

10 Ensure all systems function correctly.

EFFECT ON WEIGHT

11 Negligible.

PUBLICATION AMENDMENTS

12 Necessary amendments will be issued separately.

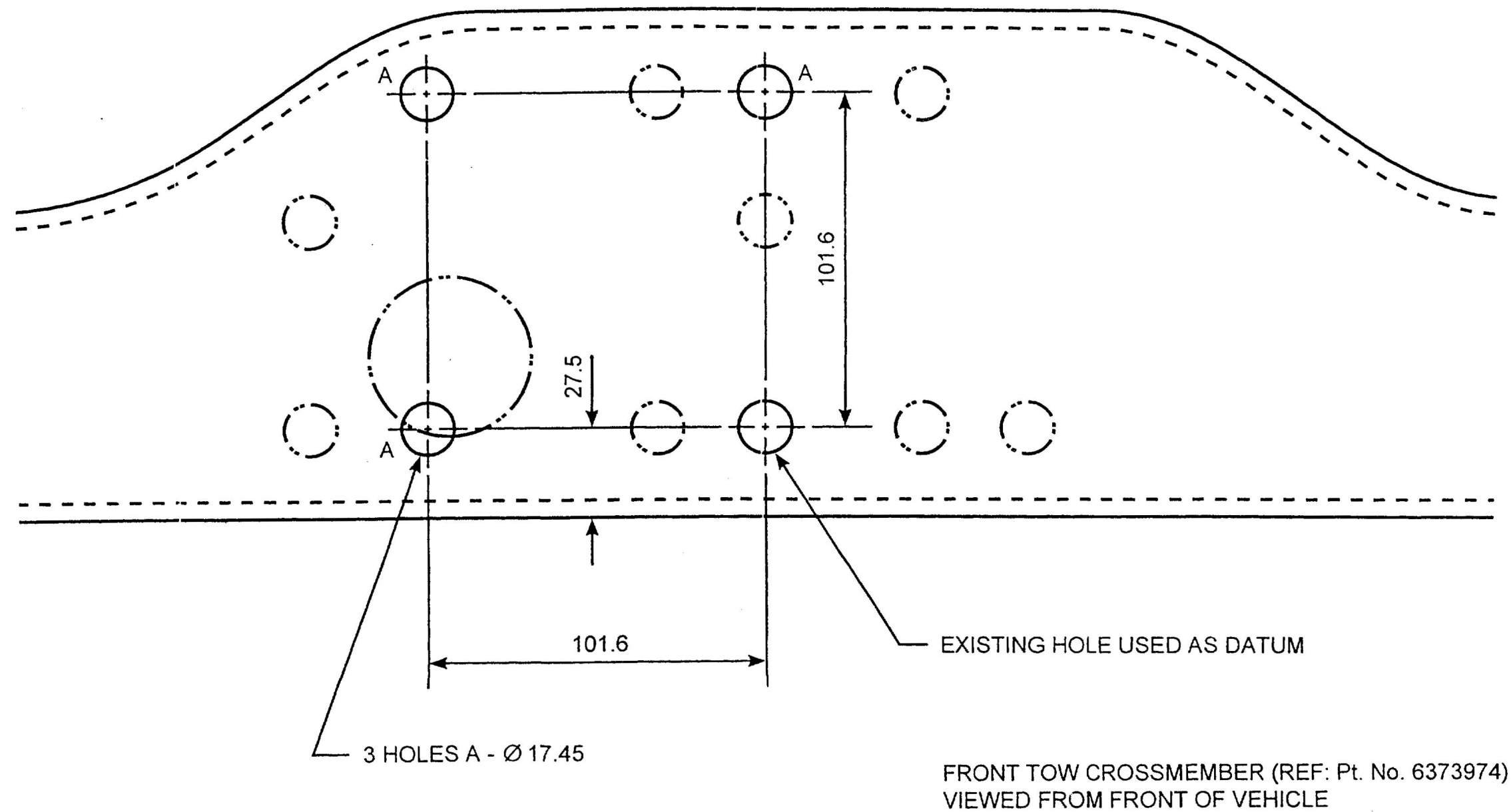


Fig 1 Tow hook mounting holes

V13686/1

TRUCK, 4 TONNE, 4 X 4, BEDFORD MJ (ALL VARIANTS)

MODIFICATION INSTRUCTION NO. 23

Sponsor:
DGES(A)

Publication Agency:
ATSA Chertsey
Project No: 72211(121)
File ref: Task 4576

AMENDMENT RECORD

Amdt No.	Incorporated By (Signature)	Date
1		
2		
3		

Amdt No.	Incorporated By (Signature)	Date
4		
5		
6		

SUBJECT: Fuel tank

(Approval No. 12-2067/3)

INTRODUCTION

1 The manufacturers have introduced a third generation fuel tank, recognised as having the tank sender unit positioned on the top face. The fuel tank will supersede both the original and the revised tank introduced at Mod Instr No. 12 when stocks have been exhausted. This instruction details the actions to be taken when replacement fuel tanks are deemed necessary to change from:

- 1.1 The original to the third generation.
- 1.2 The revised second generation to the third.

APPLICABILITY

2 Truck, Cargo, 4 Tonne, 4 x 4, Bedford MJ (All Variants).

REASON FOR MODIFICATION

3 Code 5 - to conform to changes in pattern of commercial stores.

PRIORITY

4

- 4.1 ARMY: Routine.
- 4.2 RAF: Class 3.

ESTIMATED TIME REQUIRED

5 Embodiment: 6 man-hours.

MODIFICATION IMPLEMENTATION PLAN

6

- 6.1 This instruction is to be implemented by
 - 6.1.1 ARMY - Units authorized to carry out levels 2, 3 and 4 maintenance.
 - 6.1.2 RAF - Units as and when required.
- 6.2 Associated modification instructions. Mod Instr No. 12.
- 6.3 Modification strike plate action: N/A

Action required by

7

- 7.1 Units and establishments holding equipment:
 - 7.1.1 Examine vehicle documents to see if modification is applicable.
 - 7.1.2 ARMY - Examine vehicle to see if modification is embodied and where necessary units with 1st Line REME Support demand the stores required.
 - 7.1.3 RAF - Examine vehicle to see if modification is embodied and where necessary demand the stores required.
 - 7.1.4 ARMY - On receipt of stores, request REME to modify equipment.
 - 7.1.5 ARMY - Record the modification Subject, AESP Number and Army Modification Code in vehicle documents.
 - 7.1.6 RAF - Record modification details on RAF Form 4870 and AF G1084A. Units operating STAMA are also to record modification details on ADP MTMS Job Certification Sheet and to follow procedures laid down in AP 100C-08A.
 - 7.2 Army units authorised to carry out levels 2, 3 and 4 maintenance, and RAF units.
 - 7.2.1 ARMY - When requested by users or during overhaul of vehicles on charge without REME 1st Line Support, obtain the items listed in Para 8 and carry out this modification.
 - 7.2.2 RAF - On receipt of stores, embody the modification.
 - 7.2.3 Record completion details of modification against appropriate entry in vehicle documents.
 - 7.2.4 Complete AF G1084A when reporting completion of the modification to Data Centre using the following FORWARD code:

RAF: MODIFICATION CODE - AFC 273
- NOTE
- RAF Units operating STAMA are also to complete ADP MTMS Job Certification Sheet and to follow the procedures laid down in AP 100C-08A.
- 7.3 All recipients of this instruction. Add particulars to AESP 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded:

8.1.1 The following items and modification set are to be demanded quoting this instruction as authority for demand.

8.1.2 To modify from original tank to third new tank, items 1-22 inc. are required.

8.1.3 To modify from second tank (Mod Instr 12) to third new tank, only items 1 and 22 are required

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
1	7BD	2910-99-051-6319	Fuel tank	1
	7BD	2910-99-839-7037	Mod set: Fuel Tank Fitting Kit	1
			comprising:	
2	7BD	4710-99-942-4715	Pipe, nylon	(2)
3	6MT1	4730-99-835-0703	Nut	(6)
4	6MT1	4730-99-831-9967	Olive	(6)
5		91089146	Nut	(2)
6		91087456	Olive	(2)
7	7BD	2590-99-978-2581	Adapter	(2)
8	7BD	4730-99-192-0235	Adapter	(1)
9	6MT1	5330-99-881-2905	Ring	(2)
10	7BD	4820-99-978-1716	Valve assy	(1)
11	7BD	4730-99-172-9260	Adapter	(1)
12	7BD	4730-99-352-4622	Elbow	(1)
13	7BD	2590-99-978-1715	Handle assy	(1)
14	7BD	5315-99-570-5835	Pin	(1)
15	7BD	4730-99-839-7350	Adapter	(1)
16	G1	5305-99-122-4911	Screw M10 x 30	1
17	G1	5310-99-122-5297	Nut M10	1
18	G1	5310-99-135-9303	Washer lock M10	1
19	G1	5310-99-122-8067	Washer M10	1
20	7BD	2910-99-748-0396	Bracket assy	1

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
21	7BD	7690-99-215-7592	Label	1
22	7BD	6150-99-300-6280	Harness	1
<u>8.2 Stores to be removed and reduced to salvage.</u>				
23	7BD	2910-99-721-4570	Fuel tank (original)	1
24	7BD	2910-99-978-1045	Fuel tank (interim)	1

Sequence of operations

9 Carry out this instruction as follows:

NOTE

The item numbers of Para 8 are used as reference throughout this instruction.

9.1 To change the original first generation fuel tank (recognised as having steel fuel pipes connected) to third generation:

- 9.1.1 Remove fuel tank (item 23) and fuel pipes, and discard.
- 9.1.2 Drill Ø 10.5 mm hole in chassis for fitting fuel tank stop as shown in Fig 1.
- 9.1.3 Fit new fuel tank (item 1) using fitting kit and adapter (item 15) in accordance with Fig 2 (soften nylon pipes (item 2) before fitting).
- 9.1.4 Secure nylon pipes (item 2) with suitable tie-wraps, route as per original pipes.
- 9.1.5 Ensure grommets are fitted where fuel pipes pass through chassis.
- 9.1.6 Fit suitable grommets in fuel tap handle bracket.
- 9.1.7 Fit 'on-off' label (item 21) to fuel tap bracket.
- 9.1.8 Fit fuel tank stop bracket (item 20) using screw, nut, lock washer and washer (items 16, 17, 18 and 19) ensuring that the bracket butts against the fuel tank.
- 9.1.9 Fit wiring harness (item 22) between sender unit and vehicle wiring loom.

9.2 The revised second generation fuel tank (recognised as having plastic fuel pipes connected and the tank sender unit on the rear face) to the third generation:

- 9.2.1 Remove fuel tank (item 24) and discard.
- 9.2.2 Fit fuel tank (item 1) and connect up to existing pipework.
- 9.2.3 Fit wiring harness (item 22) between sender unit and vehicle wiring loom.

TESTING AFTER EMBODIMENT

10 Nil.

EFFECT ON WEIGHT

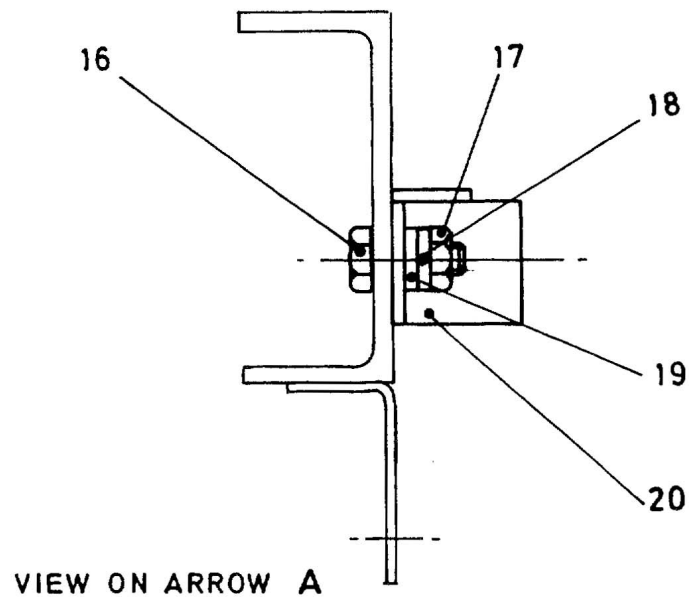
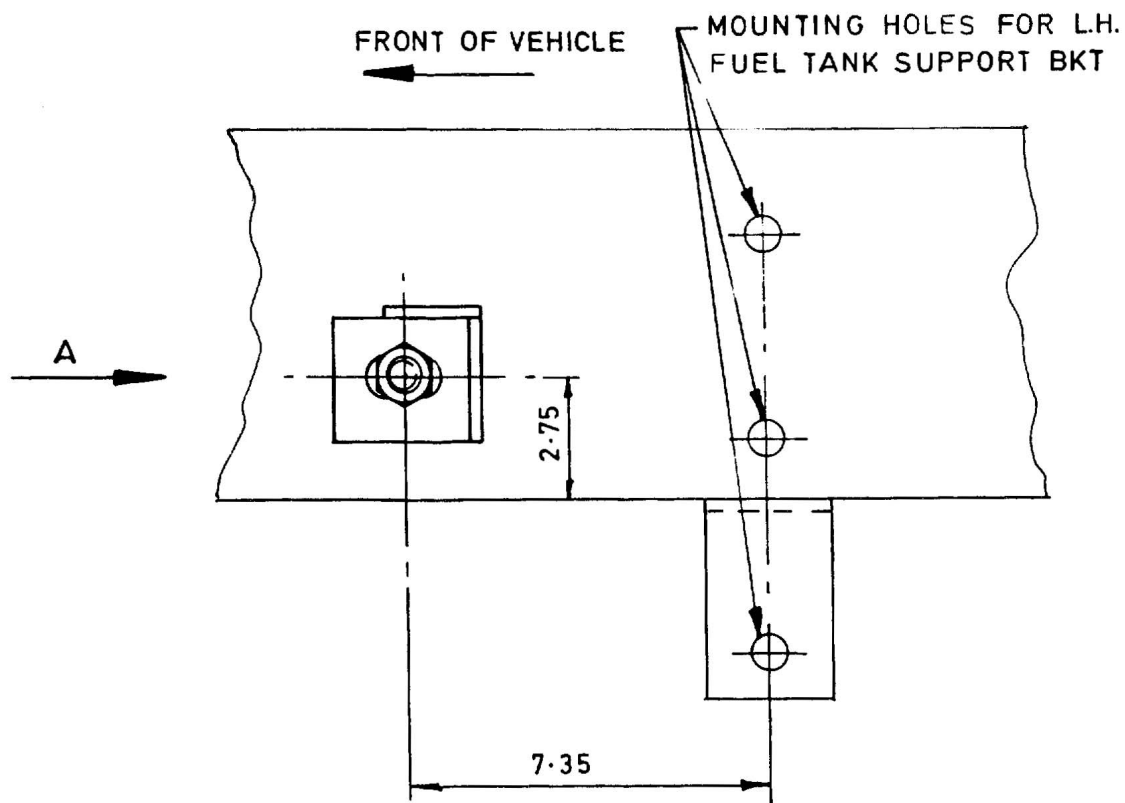
11 Negligible.

PUBLICATION AMENDMENTS

NOTE

Necessary amendments will be issued separately.

12 Nil.



V7712/1

Fig 1 Fuel tank stop

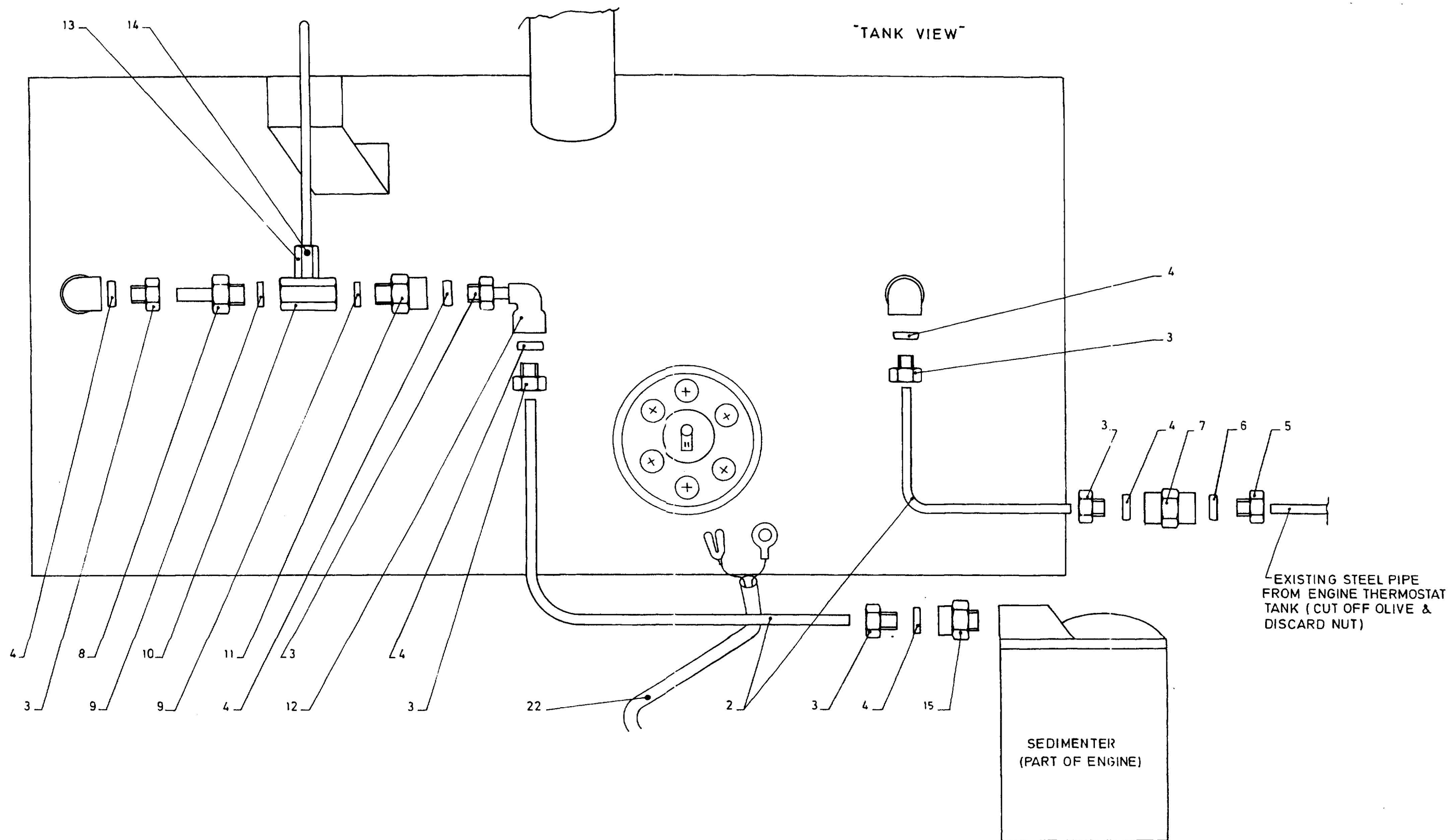


Fig 2 Layout of fuel tank fitting kit

TRUCK 4 TONNE, 4 X 4, BEDFORD MJ (ALL VARIANTS)
MODIFICATION INSTRUCTION NO. 24

Sponsor:
ES 52c

Publication Agency:
ATSA Chertsey
Project No: 97/52c/4561(215)
File ref: 97/52c/4561/LVG

AMENDMENT RECORD

Amdt No.	Incorporated By (Signature)	Date
1		
2		
3		

Amdt No.	Incorporated By (Signature)	Date
4		
5		
6		

SUBJECT: Earth bonding point
(Task 725)

INTRODUCTION

1 This instruction details the manufacture and fitment of a specific earthing point for TTF vehicles enabling bulk fuel uplifts to be carried out at designated civilian establishments, at Duisberg and Hanover, in Germany.

1.1 Limitations on use of equipment. Nil.

WARNINGS AND CAUTIONS

2

2.1 All safety precautions, detailed in AESP 2320-A-100-522 and JSP 317, are to be adhered to at all times.

2.2 Care is to be taken during drilling operations to avoid contact with vehicle pipework and electrical wiring.

APPLICABILITY

3 Truck, 4 Tonne, Bedford MJ, fitted with UBRE equipments, held by user units required to uplift bulk fuel from Duisberg and Hanover.

REASON FOR MODIFICATION

4 Code 6 - to conform to changes in legislation.

ILLUSTRATIONS

5	Fig	Page
1	Earth bonding post - dimensions.....	4
2	Location of earth bonding post, rear of vehicle	5/6

PRIORITY

6

6.1 ARMY: Routine.

6.2 RAF: Class 3.

ESTIMATED TIME REQUIRED

7	<u>Task</u>	<u>Man-hours</u>	<u>Tradesman employed</u>
	Manufacturing	1	VM/MT Tech/MT Mech
	Embodiment	1.5	VM/MT Tech/MT Mech

IMPLEMENTATION PLAN

8

8.1 This instruction is to be implemented by units authorized to carry out levels 2, 3 and 4 maintenance.

8.2 Associated instructions: Nil.

8.3 Strike plate action: N/A.

Action required by:

9

9.1 Units and establishments holding equipment:

9.1.1 Examine equipment documents to see if instruction is applicable.

9.1.2 Examine equipment or record strike plate to see if instruction is embodied.

9.1.3 Record the AESP and instruction number in equipment documents.

9.2 Units authorized to carry out levels 2, 3 and 4 maintenance:

9.2.1 When requested by users or during repair/overhaul of equipment, obtain the items listed in Para 10 carry out this instruction.

9.2.2 Record completion details of instruction against appropriate entry in vehicle documents.

9.3 All recipients of this instruction. Add particulars to AESP 2320-H-100-811 instruction index.**Stores, tools and equipment**

10

10.1 Stores to be demanded.

10.1.1 The following items are to be demanded quoting this instruction as authority.

10.1.2 Registration/Serial number of vehicle for equipment held by user units.

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
1	G2	9530-99-965-0243	Brass rod 10 mm dia.	130 mm
2	G1	5310-99-122-6119	Nut, 10 mm x 1.5 pitch	2
3	G1	5310-99-127-6119	Washer, lock, internal.	2

Sequence of operations

11 Carry out the modification as follows:

NOTE

The item numbers of Para 10 are used as references throughout this instruction.

11.1 Using the brass rod (item 1), manufacture the bonding post to the specifications listed in Fig 1.

11.2 Using the location diagrams (Fig 2 and 3), locate, mark and drill a 2 mm pilot hole in the desired side and position where the post is to be fitted.

11.3 Drill out the pilot hole to 10.2 mm and, using a wire brush and suitable scraper, remove the paint 5 mm around the hole.

11.4 Fit one of the nuts (item 2) to the bonding post, ensuring it is wound on the full length of the threaded portion, and fit one of the lock washers (item 3).

11.5 Fit the bonding post assembly into the prepared hole, from outside.

11.6 Fit the remaining lock washer and nut and tighten fully, taking care not to overtighten.

11.7 Restore the surface finish to any bare metal around the post after fitment.

TESTING AFTER EMBODIMENT

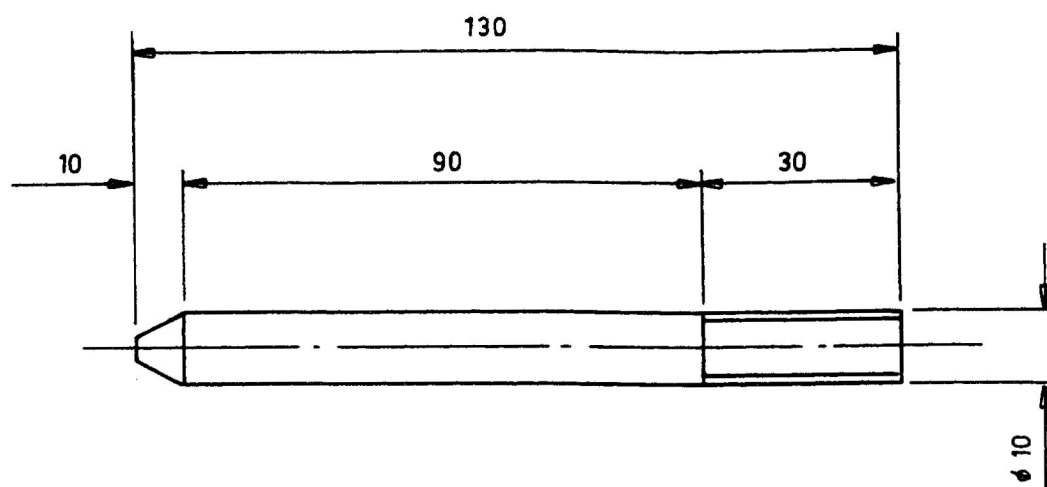
12 Carry out a bonding check in accordance with AESP 2320-A-100-522.

EFFECT ON WEIGHT

13 Negligible.

PUBLICATION AMENDMENTS

14 Nil.



MATERIAL. 10mm BRASS ROD
NSN G2 9530-99-965-0243
THREAD SIZE 10mm x 1.5p (Coarse)
DIMENSIONS IN Millimetres

Fig 1 Earth bonding post, dimensions

V13983/1

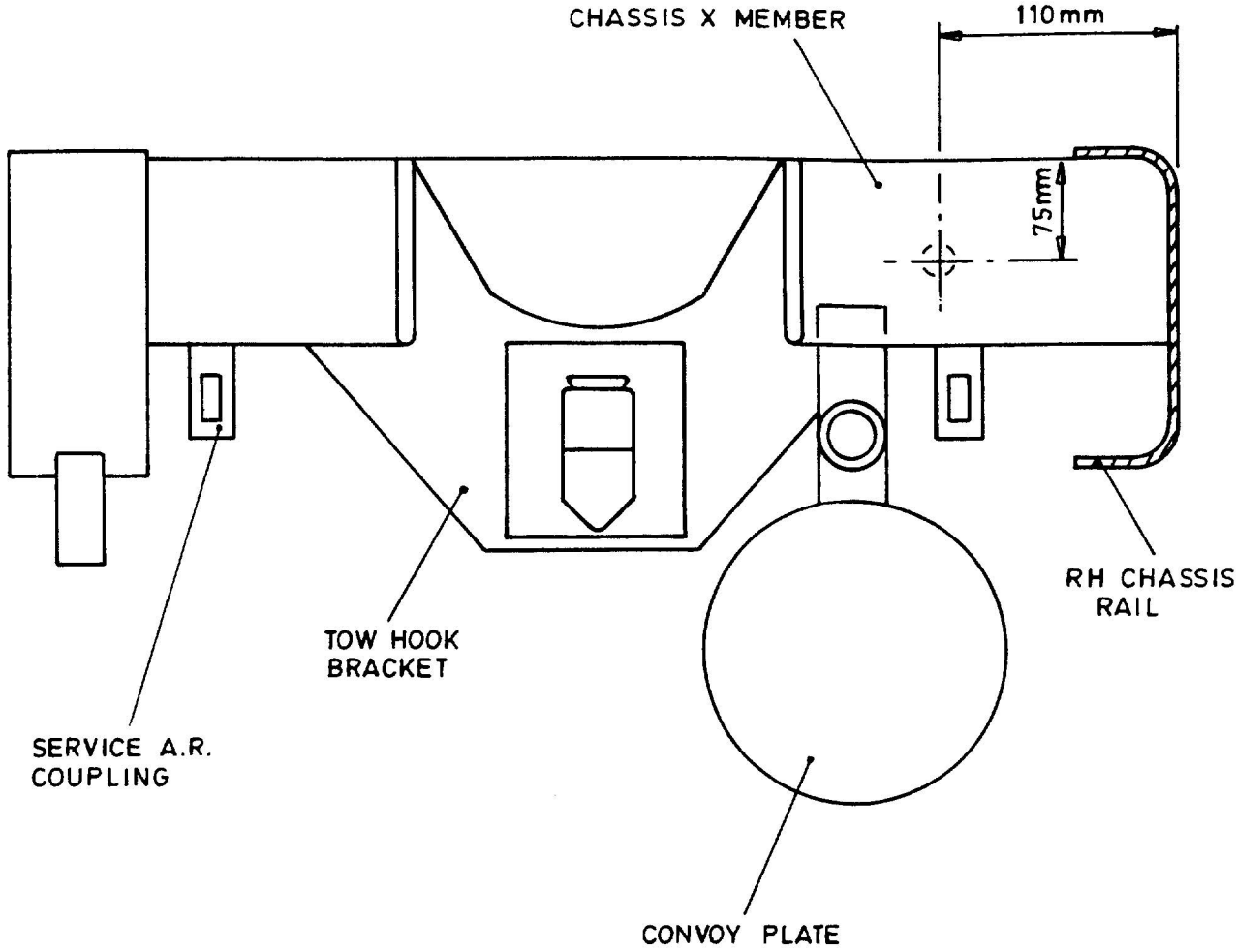


Fig 2 Location of earth bonding post, rear of vehicle

V13984/1

CONDITIONS OF RELEASE

- 1 This information is released by the UK Government for defence purposes only.
- 2 This information must be accorded the same degree of security protection as that accorded thereto by the UK Government.
- 3 This information may be disclosed only within the Defence Department of the recipient Government, except as otherwise authorized by the Ministry of Defence (Army).
- 4 This information may be subject to privately owned rights.

TRUCK, 4 TONNE, 4 X 4, BEDFORD MJ

(ALL VARIANTS)

MODIFICATION INSTRUCTION NO. 25

CANCELLATION

INTRODUCTION

- 1 This Amendment authorises the cancellation of AESP 2320-H-100-811 Modification Instruction No. 25. The supply of the original seat has been confirmed for the foreseeable future.

ACTION

- 2 Remove all pages of AESP 2320-H-100-811 Modification Instruction No. 25 and destroy them.
- 3 File this amendment in its place.

Amendment record

- 4 Record the incorporation of this Amendment.

TRUCK, 4 TONNE, 4 X 4 BEDFORD MJ (ALL VARIANTS)

MODIFICATION INSTRUCTION NO. 26

Sponsor:
DGES(A)

Publication Agency:
ATSA Chertsey
Project No: 98/52c/4916(512)
File ref: DE/CH/LVG/0736

AMENDMENT RECORD

Amdt No.	Incorporated By (Signature)	Date
1	G R C Boyle	16/8/99
2		
3		

Amdt No.	Incorporated By (Signature)	Date
4		
5		
6		

SUBJECT: Cab interior light

(Approval No. 12-7017)

INTRODUCTION

1 The original cab interior light is no longer available. A revised assembly has been identified, however, some minor application work will be required. When interior light replacement is required, this instruction provides all the necessary details.

1.1 Limitations on use of equipment. Nil.

APPLICABILITY

2 Truck, Cargo, 4 Tonne, 4 x 4 Bedford MJ (All Variants).

2.1 Fitted to subject vehicles held by user units.

REASON FOR MODIFICATION

3 Code 5 - to conform to changes in pattern of commercial stores.

PRIORITY

4

4.1 ARMY: Routine.

4.2 RAF: Class 3.

ESTIMATED TIME REQUIRED

5 Embodiment: 0.5 man-hours.

MODIFICATION IMPLEMENTATION PLAN

6 This modification is to be implemented on failure by:

- 6.1 ARMY: Units authorised to carry out levels 2, 3 and 4 maintenance.
- 6.2 RAF: Units at 2nd line.
- 6.3 Associated instructions. Nil.
- 6.4 Strike plate action: N/A.

Action required by

7

7.1 Units and establishments holding equipment:

- 7.1.1 Examine equipment documents to see if instruction is applicable.
- 7.1.2 Examine equipment or modification record plate to see if modification is embodied and where necessary Units with level 2 REME Tradesman demand the stores required.
- 7.1.3 ARMY — On receipt of stores, request REME to modify equipment.
- 7.1.4 ARMY - Record the AESP and instruction number in equipment documents.
- 7.1.5 RAF — Record modification details on AF G1084A and Form 4870. Units operating STAMA are also to record modification details on ADP MTMS Job Certification Sheet and to follow the procedures laid down in AP 100C-08A.

7.2 Army units authorized to carry out levels 2, 3 and 4 maintenance and RAF units:

- 7.2.1 ARMY - When requested by units or during overhaul of equipment on charge without REME Level 2 Support, obtain the items listed in Para 8 and carry out this modification.
- 7.2.2 Record completion details of modification against appropriate entry in vehicle documents.
- 7.2.3 Complete AF G1084A when reporting completion of the modification to FORWARD (RAF) using the following code:

RAF: MODIFICATION CODE: AFC 292

NOTE

RAF units operating STAMA are also to complete ADP MTMS Job Certification Sheet and to follow the procedures laid down in AP 100C-08A.

7.3 All recipients of this instruction. Add particulars to AESP 2320-H-100-811 Instr Index.

STORES, TOOLS AND EQUIPMENT

8

8.1 Stores to be demanded:

- 8.1.1 The following items are to be demanded quoting this instruction as the authority.

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
1	7BD	6220-99-400-1423	Cab interior light assy.	1
2	X5	6240-99-661-0644	Lamp, filament (24V).	1

NOTE

The cab light assy is fitted with a 12 volt lamp. The lamp is to be replaced for 24 volt applications.

Sequence of operations

9 Carry out this instruction as follows:

Refer to Fig 1

9.1 Mark hole at dimensions specified.

9.2 Drill hole using 3 mm drill.

9.3 Fit light assembly.

TESTING AFTER EMBODIMENT

10 Switch lamp to the ON position and check for operation.

PUBLICATION AMENDMENTS

NOTE

Necessary amendments will be issued separately.

11 Nil.

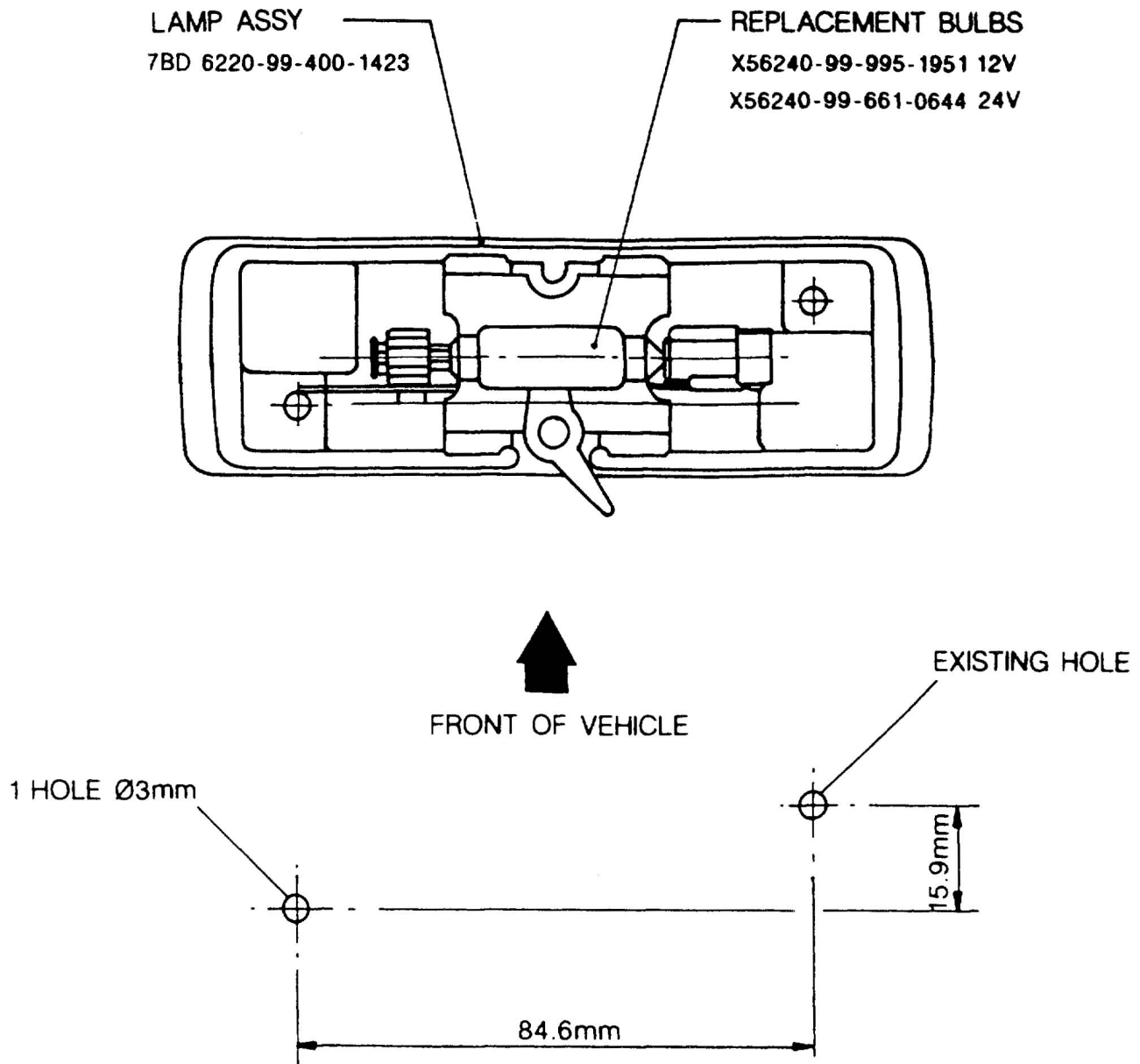


Fig 1 Details of cab interior light assembly hole location

V14231/1

TRUCK 4 TONNE MJ (ALL VARIANTS)
MODIFICATION INSTRUCTION NO. 27
(completely revised)

Sponsor:
GSV IPT

Publication Agency:
DLO Andover
Project No:97/52c/4903(581)
File ref:

AMENDMENT RECORD

Amdt No.	Incorporated By (Signature)	Date
1	JPC	May 04
2		
3		

Amdt No.	Incorporated By (Signature)	Date
4		
5		
6		

SUBJECT: Fire extinguisher fitting.

(Approval No. 97/52c/4903/LVG)

INTRODUCTION

1 This instruction introduces a 6 Kg dry powder fire extinguisher for fitment to vehicles over 3.5 tonnes gross vehicle weight (GVW) carrying hazardous goods.

1.1 Limitations on use of equipment. Nil.

WARNING

PERSONAL INJURY. THE SAFETY PRECAUTIONS AND WORK PRACTICES PUBLISHED IN AESP 2320-A-100-522 AND JSP 317 ARE TO BE FOLLOWED WHEN INCORPORATING THIS MODIFICATION.

APPLICABILITY

2 Truck, 4 Tonne, MJ, All Variants.

REASON FOR MODIFICATION

3 Code 6 - To conform to changes in legislation.

PRIORITY

4

4.1 ARMY: Routine.

4.2 RAF: Class 1.

ESTIMATED TIME REQUIRED

5 Embodiment: 2 man-hours.

MODIFICATION IMPLEMENTATION PLAN

6

- 6.1 This instruction is to be implemented by:
- 6.1.1 ARMY - Units authorized to carry out levels 2, 3 or 4 maintenance.
 - 6.1.2 RAF - Units not later than the next maintenance.
 - 6.1.3 Vehicle Depots before issue of vehicle.
- 6.2 Associated instructions. Nil.
- 6.3 Strike plate action: N/A.

Action required by

7

- 7.1 Units and establishments holding equipment:
- 7.1.1 Examine equipment documents to see if instruction is applicable.
 - 7.1.2 Examine equipment or modification record plate to see if modification is embodied and where necessary Units with level 2 REME Support demand the stores required.
 - 7.1.3 ARMY - On receipt of stores, request REME to modify equipment.
 - 7.1.4 ARMY - Record the AESP and instruction number in equipment documents.
- 7.2 Army units authorized to carry out levels 2, 3 and 4 maintenance and RAF units:
- 7.2.1 ARMY - When requested by units or during overhaul of equipment on charge without level 2 REME Support, obtain the items listed in Para 8 and carry out this modification.
 - 7.2.2 RAF - On receipt of stores, embody modification.
 - 7.2.3 Record completion details of modification against appropriate entry in vehicle documents.
 - 7.2.4 Complete AF G1084A/STAMA worksheet when reporting completion of the modification to FORWARD (RAF) using the following code:

RAF: MODIFICATION CODE: AFC 293
- NOTE
- RAF units operating STAMA are also to complete ADP MTMS Job Certification Sheet and to follow the procedures laid down in AP 100C-08A.
- 7.3 All recipients of this instruction. Add particulars to AESP 2320-H-100-811 Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded:

8.1.1 The following items are to be demanded quoting this instruction as the authority.

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
1		N/P	Mod set: comprising:	1
2		4210-99-591-4194	Extinguisher, fire, dry powder 6 Kg.	(1)
3		2540-99-075-9118	Firebox - 6 Kg top loading.	(1)
4		5340-99-573-2132	Adaptor plate.	(1)
5	G1	5306-99-122-5326	Bolt M8 x 30 mm.	(14)
6	G1	5306-99-122-8145	Nut M8 Nyloc.	(14)
7	G1	5310-99-122-8085	Washer flat 8 mm.	(28)
8		5340-99-219-5636	Reinforcing strips.	(2)
9		5340-99-853-3672	Support plates.	(2)

8.2 Stores to be returned through supply system:

8.2.1 Existing external fire extinguisher and bracket.

10	MT1	4210-99-998-3537	Fire extinguisher.	1
11	6MT1	4210-99-839-9904	Bracket.	1

Sequence of operations

9 Carry out this instruction as follows:

NOTE

The item numbers of Para 8 are used as reference throughout this instruction.

9.1 Remove existing external 2 kg fire extinguisher and bracket. Plug the drilled holes in the cab with the 2 kg fire extinguisher bracket bolts.

9.2 Identify on the right hand side of vehicle flat bed, the flat bed support member (running at 90 degrees to the chassis), forward of drop side bump stop.

9.3 On identified support member, measure in and mark a point 145 mm from the outside edge on the centre line. Using an 8.5 mm drill, drill hole.

9.4 Position support plate (item 9), so the pre drilled hole, 30 mm from the end is in line with hole drilled in Sub-Para 9.3. The support plate (item 9) should be positioned at 90 degrees to the flat bed support member and face toward the support member over the rear of the spare wheel.

9.5 Position the adaptor plate (item 4) so the narrow tapered end faces outwards from the chassis. With the flat four holed surface uppermost, align the left hand outer hole in the adaptor plate (item 4) with the hole drilled in Sub-Para 9.3. Secure using (items 5, 6 and 7) through the hole drilled in Sub-Para 9.3, the support plate (item 9) and the adaptor plate (item 4), ensuring the support plate is sandwiched between the support member and the adaptor plate.

9.6 Align corresponding left hand rear hole in the adaptor plate (item 9) with centre line of the support member, mark and using an 8.5 mm drill, drill hole.

9.7 Secure rear support plate (item 9) as in Sub-Para 9.5.

9.8 Align both right hand holes in adaptor plate (item 4) with pre drilled holes in both support plates (item 9) and secure using (items 5, 6, and 7).

9.9 Brace free end of both support plates (item 9) to support member, mark a point at the centre line of both support plates (item 9) and support member. Using an 8.5 mm drill, drill holes, and secure plate to member using (items 5, 6 and 7).

9.10 Remove the metal brackets from the firebox (item 3) then refit the two brackets which attach directly to the box using reinforcing strips (item 8) inside the box. Secure using (items 5, 6 and 7).

9.11 Using (item 4) as a template, align the holes at the narrow tapered end, with the holes in the container bracket closest to the lid. With an 8.5 mm drill, drill lower holes. Attach firebox (item 3) to adaptor plate (item 4) using (items 5, 6 and 7), install (item 2) and secure lid.

NOTE

Figs 1 to 3 are attached for reference, they are to be used when the adaptor plates/packing pieces are not available from the manufacturer.

TESTING AFTER EMBODIMENT

10 Nil.

EFFECT ON WEIGHT

11 Negligible.

PUBLICATION AMENDMENTS

NOTE

Necessary amendments will be issued separately.

12 Nil.

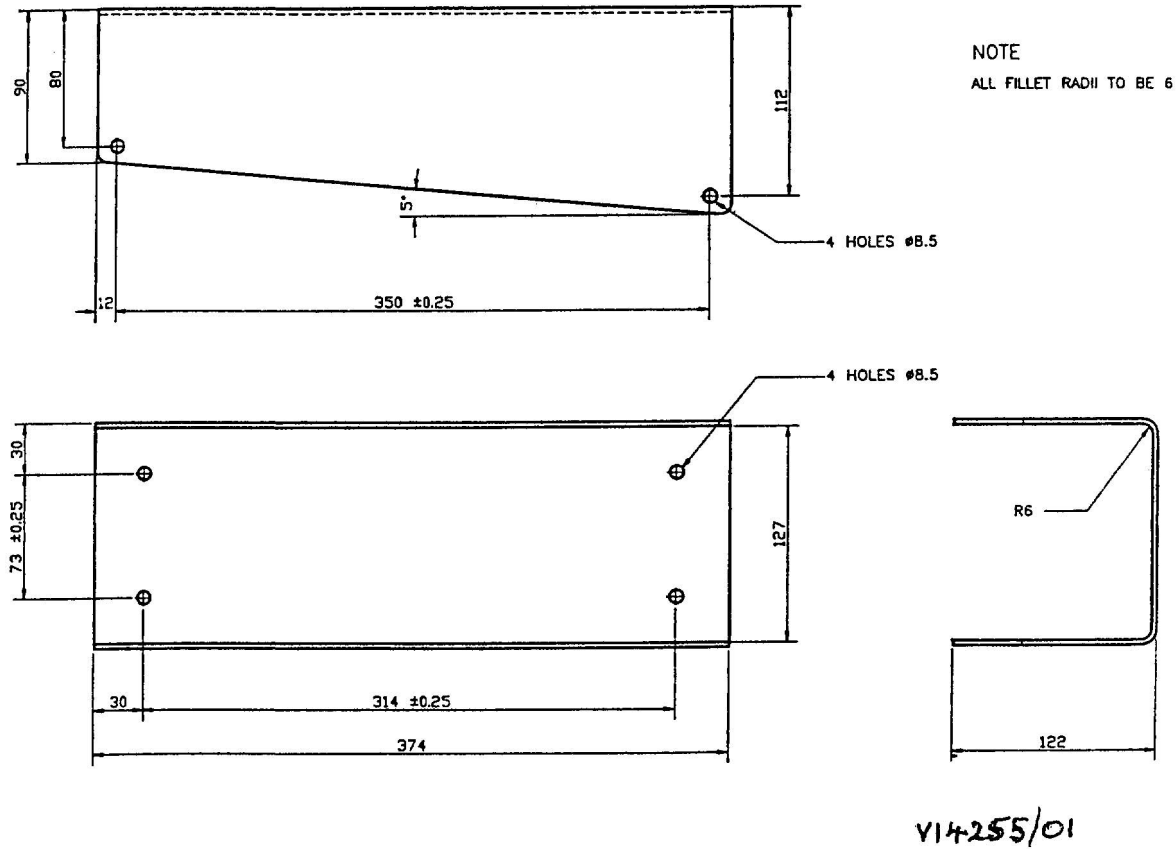
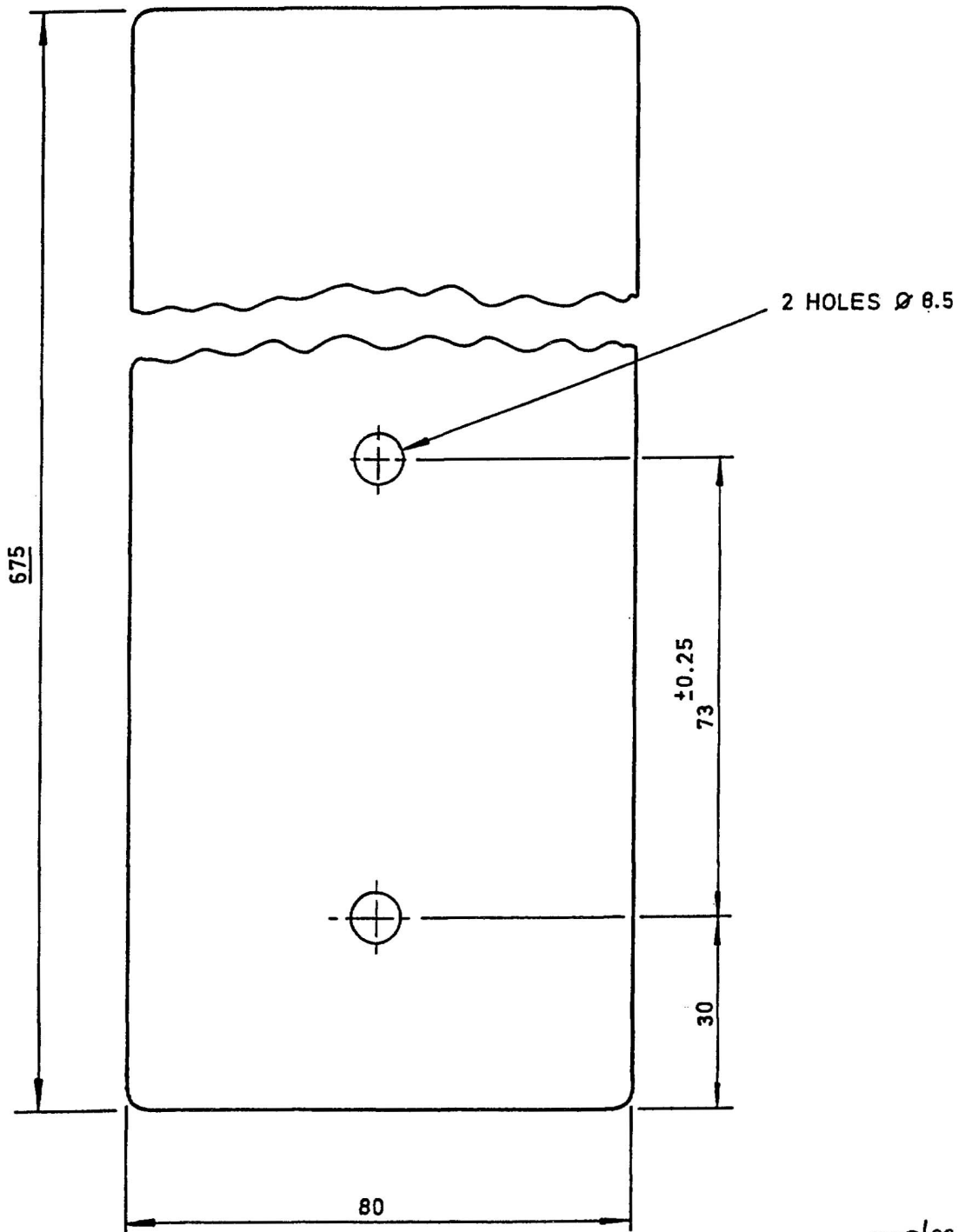


Fig 1 Adaptor plate

V14255/01

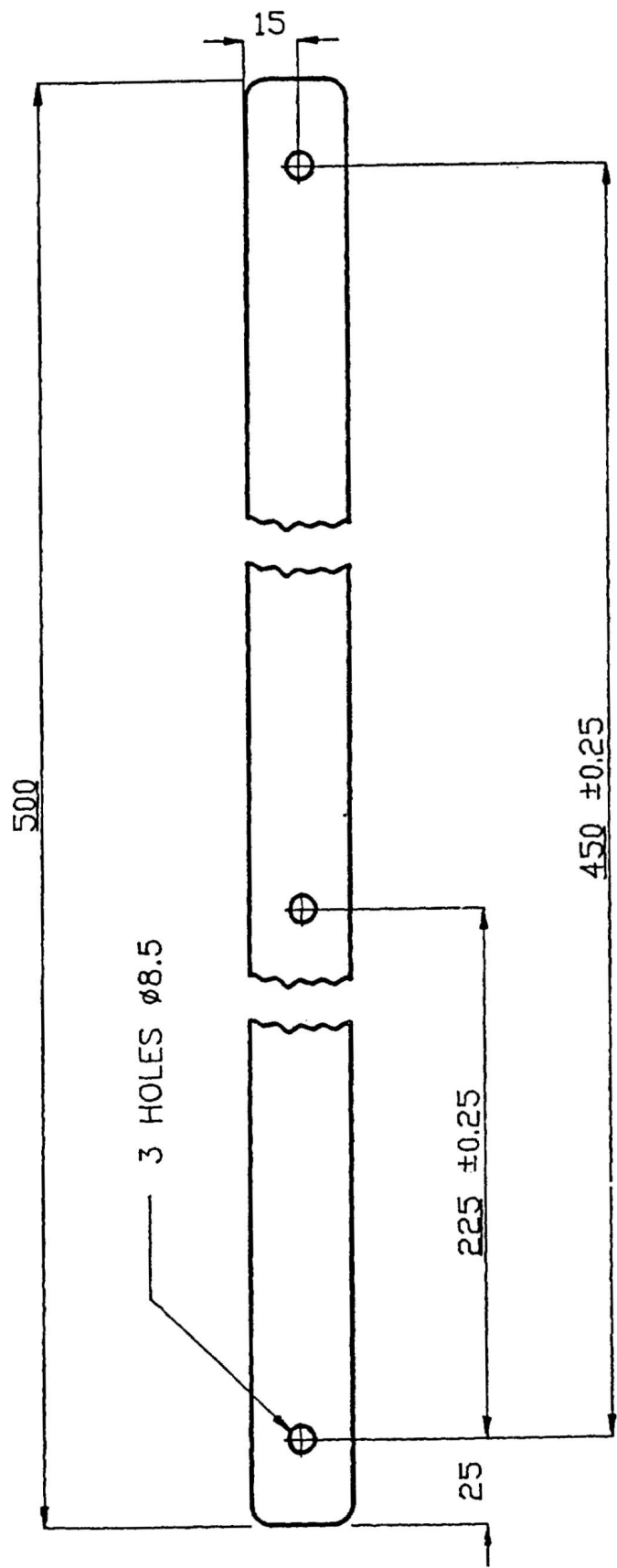


NOTE : ALL FILLET RADII TO BE 6

V14255/02

Fig 2 Support plate

V14255/02



NOTE
ALL FILLET RADII TO BE 6

V14153/05

V14153/05

Fig 3 Reinforcing strips

TRUCK 4 TONNE 4 X 4 BEDFORD MJ (ALL VARIANTS)

MODIFICATION INSTRUCTION NO. 28

Sponsor:
DGES(L)

Publication Agency:
DLO Chertsey
Project No: (01/CSV/5518)
File ref: D/DGES(L) CSV (Sp) IPT

AMENDMENT RECORD

Amdt No	Incorporated By (Signature)	Date
1		
2		
3		

Amdt No	Incorporated By (Signature)	Date
4		
5		
6		

SUBJECT: Provision of spare wheel winch warning label

(Approval No. MAE 12-7039)

INTRODUCTION

1 An accident has occurred whilst using the spare wheel winch assembly which has highlighted the requirement for a safety label as detailed in this instruction.

1.1 Limitations on use of equipment. Nil.

APPLICABILITY

2

2.1 Applicable to all Bedford 4T 2025-3100 vehicles held by user units.

2.2 Unmodified stock, held at all levels of technical storage.

REASON FOR MODIFICATION

3

3.1 Code 1 - to improve safety.

PRIORITY

4

4.1 ARMY: Immediate.

4.2 RAF: Class 1, 2, 3, S.O.O.

ESTIMATED TIME REQUIRED

5

5.1 Embodiment: 1 man hour.

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This instruction is to be implemented by:

6.1.1 ARMY - Units authorised to carry out levels 2, 3 or 4 maintenance.

6.1.2 RAF - Units not later than the next 932 inspection.

Action required by

7

7.1 Units and establishments holding equipment:

7.1.1 Examine equipment documents to see if modification is applicable.

7.1.2 Examine equipment or modification record plate to see if modification is embodied and where necessary Units with 1st Line REME Support demand the stores required.

7.1.3 ARMY - On receipt of stores, request REME to modify equipment.

7.1.4 ARMY - Record the AESP and instruction number in equipment documents.

7.1.5 RAF - Record modification details on AF G1084A and Form 4870. Units operating STAMA are also to record modification details on ADP MTMS Job Certification Sheet and to follow the procedures laid down in AP 100C-08A.

7.2 Army units authorised to carry out levels 2, 3 and 4 maintenance and RAF units:

7.2.1 ARMY - When requested by units or during overhaul of equipment on charge without REME 1st Line Support, obtain the items listed in Para 8 and carry out this modification.

7.2.3 Record completion details of modification against appropriate entry in vehicle documents.

7.2.4 Complete AF G1084A when reporting completion of the modification to FORWARD (RAF) using the following code:

RAF: MODIFICATION CODE: AFC 302

NOTE

RAF units operating STAMA are also to complete ADP MTMS Job Certification Sheet and to follow the procedures laid down in AP 100C-08A.

7.3 All recipients of this instruction. Add particulars to AESP 2320-H-100-811 Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded:

8.1.1 The following item is to be demanded quoting this instruction as the authority.

8.1.2 Registration/Serial number of vehicle for equipment held by user units.

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
1	6MTI	7690-99-351-3988	Label instruction, spare wheel	1

8.2 Stores or suitable equivalent to be obtained locally:

2		White spirit	AR
---	--	--------------	----

Sequence of operations

9 Carry out this instruction as follows:

9.1 Using white spirit or similar, clean a rectangle approximately 10cm square on the chassis member above the spare wheel adjacent to the spare wheel winch assembly.

9.2 Peel the backing from the label Fig 1 and apply the label to the chassis member.

TESTING AFTER EMBODIMENT

10 Nil.

EFFECT ON WEIGHT

11 Negligible.

PUBLICATION AMENDMENTS

NOTE

Necessary amendments will be issued separately.

12 Nil.

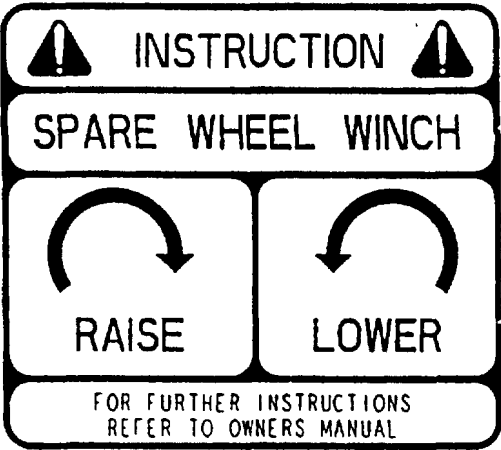


Fig 1 Instruction label

TRUCK 4 TONNE 4 X 4 BEDFORD MJ (ALL VARIANTS)

MODIFICATION INSTRUCTION No. 29

Sponsor: GSV IPT
Project No.: AU 49
File Ref: PDS GSV2/005

Publication Authority: TES TI Andover

AMENDMENT RECORD

Amdt No.	Incorporated By (Signature)	Date
1		
2		
3		

Amdt No.	Incorporated By (Signature)	Date
4		
5		
6		

SUBJECT: Fitting an enhanced Air Filtration System (Overhead Vortex Air Cleaner Unit)
(Approval No. GSV/04/054)

INTRODUCTION

1 An improved level of air filtration is required for the BEDFORD 4 tonne vehicle when operating in medium to heavy dust/sand conditions.

1.1 Limitations on use of equipment. Nil.

APPLICABILITY

2 All Bedford MJ 4 tonne 4 x 4 trucks that are about to deploy/or are deployed in environments with medium to heavy dust/sand conditions. This modification can only be embodied on vehicles which have the latest level of air cleaner assembly (NSN 2945-99-480-8035) fitted as directed by General Instruction No. 23.

REASON FOR INTRODUCTION

3 Code 2 - to improve operational reliability and performance.

PRIORITY

4

4.1 ARMY: Routine.

4.2 RAF: N/A.

ESTIMATED TIME REQUIRED

5

5.1 Dismantling N/A

5.2 Embodiment 2.5 hrs

5.3 Testing 0.5 hrs

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This instruction is to be implemented by:

6.1.1 ARMY - Units authorized to carry out levels 2, 3 or 4 maintenance_.

6.2 Associated instructions. Nil.

6.3 Strike plate action: N/A.

Action required by

7

7.1 Units and establishments holding equipment.

7.1.1 Examine equipment documents to see if modification is applicable.

7.1.2 Examine equipment or modification record plate to see if modification is embodied and where necessary Units with 1st Line REME Support demand the stores required.

7.1.3 ARMY - On receipt of stores, request REME to modify equipment.

7.1.4 ARMY - Record the AESP and instruction number in equipment documents.

7.1.5 RAF - Record modification details on AF G1084A and Form 4870. Units operating STAMA are also to record modification details on ADP MTMS Job Certification Sheet and to follow the procedures laid down in AP 100C-08A.

7.2 Army units authorized to carry out levels 2, 3 and 4 maintenance and RAF units.

7.2.1 ARMY - When requested by units or during overhaul of equipment on charge without REME 1st Line Support, obtain the items listed in Para 8 and carry out this modification.

7.2.2 N/A.

7.2.3 Record completion details of modification against appropriate entry in vehicle documents.

7.2.4 Complete AF G1084A when reporting completion of the modification to FORWARD (RAF) using the following code:

RAF: MODIFICATION CODE: AFC 312

NOTE

RAF units operating STAMA are also to complete ADP MTMS Job Certification Sheet and to follow the procedures laid down in AP 100C-08A.

7.3 All recipients of this instruction. Add particulars to AESP 2320-H-100-811 Mod Instr Index.

8

8.1 Stores to be demanded.

8.1.1 The following items are to be demanded quoting this instruction as the authority.

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
	7BD	2940-99-958-1378	Kit – Air Cleaner Intake	1
1		A6000163	Intake Stack Pipe	(1)
2		A6000162	Vortex Pre-Cleaner	(1)
3		A6000164	Inlet Stack Mounting Bracket	(2)
4		A6000165	Inlet Stack Support Bracket	(1)
5		A6000166	Flexible Air Intake Hose	(1)
6		A6000167	M8 Bolt	(8)
7		A6000173	M8 Nut	(8)
8		A6000168	M8 Plain Washer	(8)
9		A6000169	M8 Spring Washer	(8)
10		A6000170	‘T’ Bolt Clamp	(2)
11	7BD	2940-99-477-1661	Element Assembly	(1)

Sequence of operations

NOTE

The item numbers of Para 8 are used as reference throughout this instruction.

9 Carry out this instruction as follows:

9.1 Undo securing nut, remove end of cylinder and withdraw air filter element.

9.2 Fit washer (metal side first) then fit additional emergency element assembly (Item 11) and secure with wing nut.

9.3 Replace existing air filter, cylinder end and secure with the nut

9.4 Offer support bracket Item 4 to required position (longest leg up) on rear of cab, ensuring that the brackets straddle the seam of the cab body and are vertically positioned under the lip of the cab roof to allow clearance for the vortex unit.

9.5 Spot through 4 holes, remove support bracket and drill clearance holes for M8 bolts. Secure support bracket to cab using 4 – M8 bolts, nuts, washers and spring washers, Items 6, 7, 8 & 9.

9.6 Secure both mounting brackets Items 3 to support bracket Item 4 with 4 – M8 bolts, nuts and spring washers, Items 6, 7, 8 & 9.

9.7 Assemble stack pipe Item 1 to both mounting brackets, secure flexible hose Item 5 to stack pipe with a 'T' clamp Item 10 and tighten.

9.8 Tighten both 6m/m clamping bolts on mounting brackets Items 3 around the stack pipe, Item 1.

9.9 Attach flexible air intake hose Item 5 to air intake aperture in cylinder and secure with a 'T' clamp Item 10 and tighten.

9.10 Secure vortex unit Item 2 to top of stack pipe Item 1 using existing clip, ensuring that the air scoop vent faces rear of the vehicle, and is clear of the cab roof gutter.

TESTING AFTER EMBODIMENT

10 Run engine and check for leaks.

EFFECT ON WEIGHT

11 Negligible.

PUBLICATION AMENDMENTS

NOTE

Necessary amendments will be issued separately.

12 Nil.

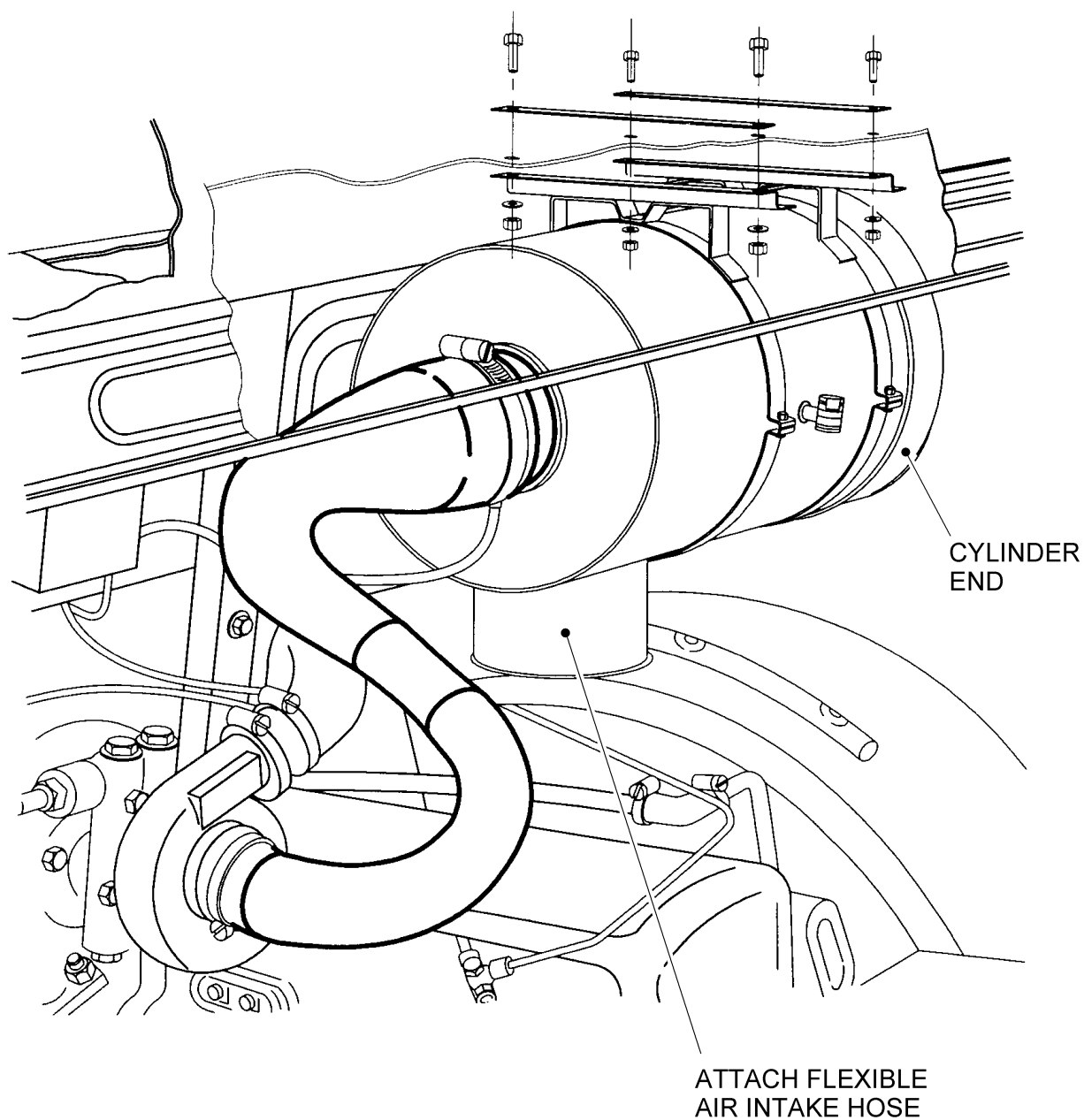


Fig 1 Air Cleaner Assembly (NSN 2945-99-480-8035)

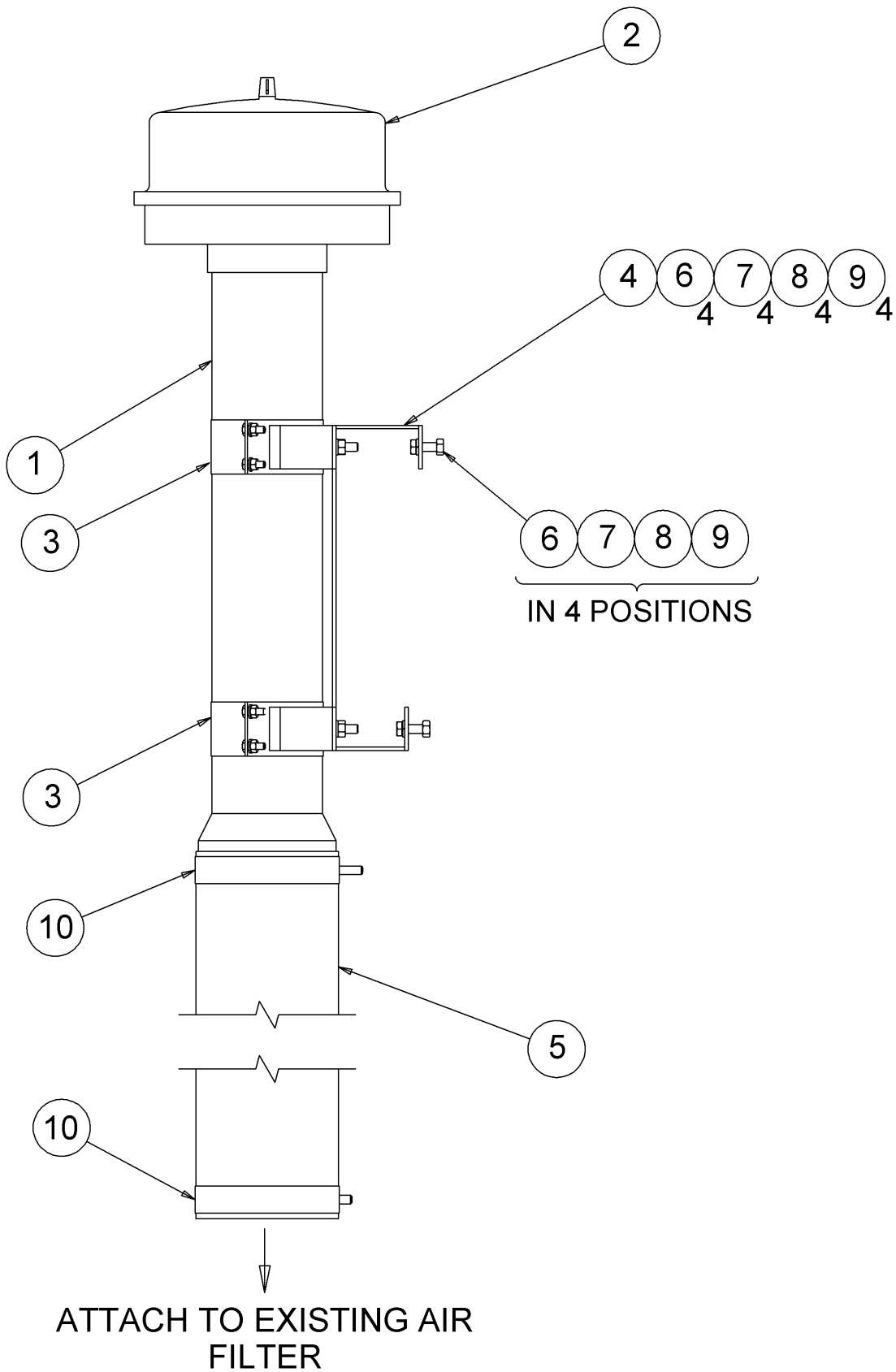


Fig 2 Overhead Vortex Air Cleaner Unit

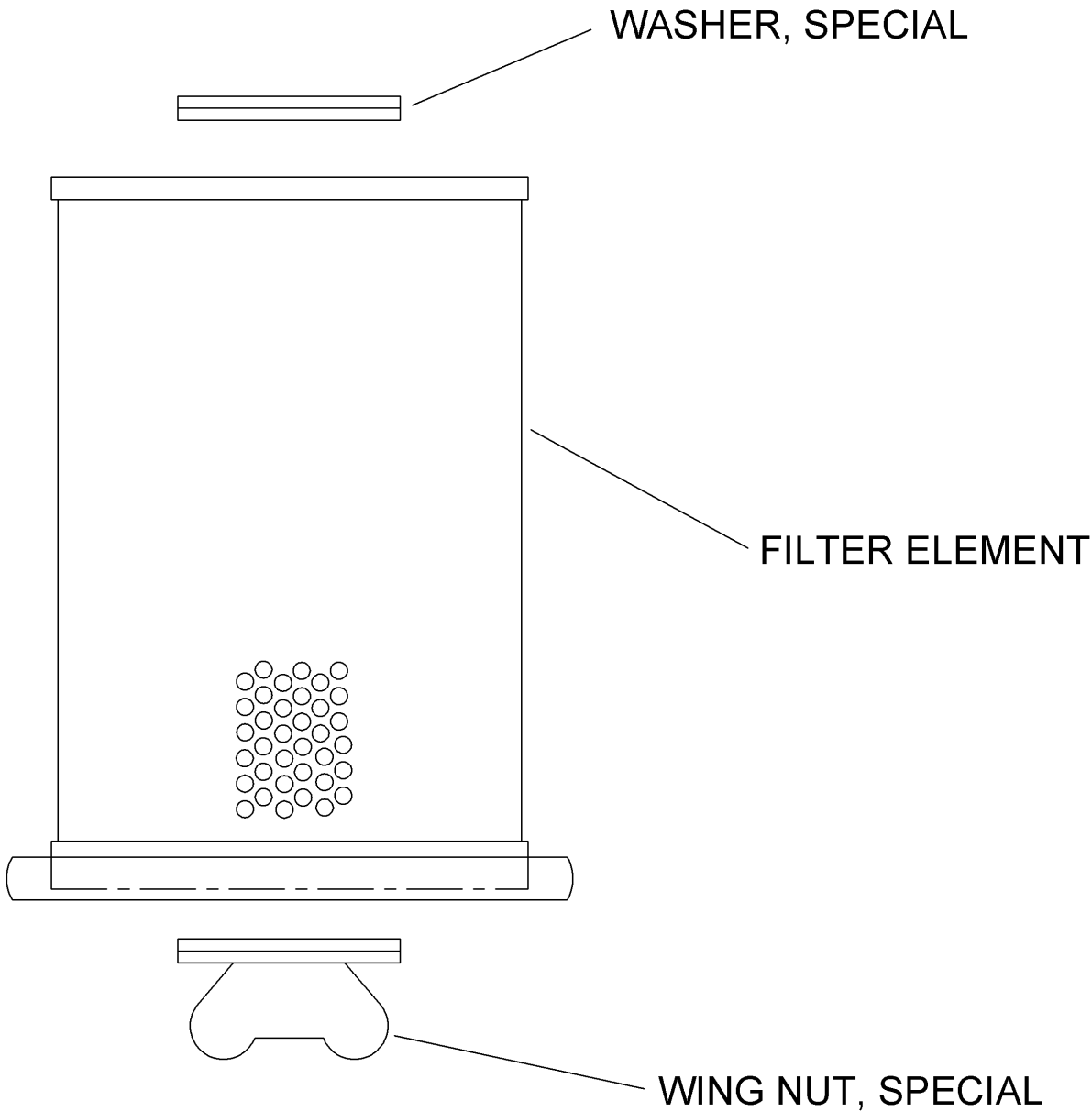


Fig 3 New Element Assembly

TRUCK 4 TONNE 4 X 4, BEDFORD MJ (ALL VARIANTS)

MODIFICATION INSTRUCTION No. 30

Sponsor: GSV IPT
Project No.: Task 051
File Ref: PDS 1A/504

Publication Authority: TES TIG Andover

AMENDMENT RECORD

Amdt No.	Incorporated By (Signature)	Date
1		
2		
3		

Amdt No.	Incorporated By (Signature)	Date
4		
5		
6		

SUBJECT: Palm couplings replacement (Approval No. GSV/04/082)

INTRODUCTION

1 Construction & Use Regulation Number 15 dated 1989 states that Heavy Goods Vehicles drawing trailers first used from 01st April 1989 are not to be fitted with a manual shut off tap on the trailer brake air-line circuit. This instruction details the changes necessary to replace these items with new self-sealing type palm couplings.

1.1 Limitations on use of equipment. Nil.

APPLICABILITY

2

2.1 Applicable to all Bedford 4 tonne 4 x 4 series vehicles held by user units, first brought into service after 01st April 89.

2.2 Bedford 4 Tonne 4 x 4 variants first brought into service before April 89, will continue to operate with manual shut off taps.

REASON FOR MODIFICATION

3

3.1 Code 1 - to improve safety.

PRIORITY

4

4.1 ARMY: Immediate.

4.2 RAF: AFC 315.

ESTIMATED TIME REQUIRED

5

5.2 Embodiment: 2 man hours.

5.4 Testing: 0.5 man hour.

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This instruction is to be implemented by:

6.1.1 ARMY – Units authorised to carry out levels 2, 3 and 4 maintenance.

6.1.2 RAF – Units when found necessary.

Action required by

7

7.1 Units and establishments holding equipment:

7.1.1 Examine equipment documents to see if modification is applicable.

7.1.2 Examine equipment or modification record plate to see if modification is embodied and where necessary Units with 1st Line REME Support demand the stores required.

7.1.3 ARMY – On receipt of stores, request ATSE DE to modify equipment.

7.1.4 ARMY – Record the AESP and instruction in equipment documents.

7.1.5 RAF – Record modification details on AFG1084A and form 4870. Units operating STAMA are also to record modification details on ADP MTMS Job Certification Sheet to follow the procedures laid down in AP 100C-08A.

7.2 Army units authorised to carry out levels 2, 3 and 4 maintenance and RAF units:

7.2.1 ARMY - When requested by users or during overhaul of equipment on charge without REME 1st Line Support, obtain the items listed in Para 8 and carry out this modification.

7.2.2 Record completion details of modification against appropriate entry in vehicle documents.

7.2.3 Complete AFG1084A when reporting completion of the modification to FORWARD (RAF) using the following code:

RAF: MODIFICATION CODE AFC TBA

NOTE

RAF units operating STAMA are also to complete ADP MTMS Job Certification Sheet and to follow the procedures laid down in AP 100C-08A.

7.3 All recipients of this instruction. Add particulars to AESP 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded.

8.1.1 The following items and modification set is to be demanded quoting this instruction as the authority.

8.1.2 Registration number of vehicle for equipment held by user units.

8.1.3 Item 14 to be discarded.

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
	7BD	2530-99-551-4855	Palm coupling conversion kit self sealing, comprising	1
1	7BD	2530-99-867-8596	Adapter, Air Compressor Vehicular brake	(1)
2	7BD	2530-99-555-0517	Adapter, Air Compressor Vehicular brake	(1)
3		A6000079	Female/Female adaptor ½ in. BSP/M22	(2)
4		A6000080	Straight stud connector (compression fitting) ¾ in. nylon tube / ½ BSP	(1)
5		A6000206	Tube support ¾ in. nylon tube	(1)
6		A6000207	Straight stud connector (WIRA) M16/12 mm tube	(2)
7		A6000083	Straight stud connector (WIRA) M22/12 mm tube	(2)
8		A6000084	Straight stud connector (compression fitting) ½ in. nylon tube / ½ in. BSP	(1)
9		A6000085	Tube support ½ in. nylon tube	(1)
10		A6000087	Nylon tube black dia. 12 mm x 1.50 mm wall	3m long
11		A6000088	Washer plain Aluminium grade 2011	(2)
12		-	Spiro Wrap Tape	A/R
13	7BD	5310-99-383-4691	Washer Stepped	(2)
14		A6000089	Elbow stud connector (compression fitting) ½ in. nylon tube / ½ in. BSP	(2)

Sequence of operations**NOTE**

The item numbers of Para 8 are used as reference throughout this instruction.

9 Carry out this instructions as follows:

WARNING

PERSONNEL HAZARD. ENSURE THAT THE AIR SYSTEM IS EXHAUSTED BEFORE COMMENCING.

9.1 Locate both Emergency supply (Red) and Control (Yellow) pipes (See Fig 2). Cut both flexible nylon pipes $\frac{3}{8}$ in. dia. Emergency supply (Red) and $\frac{1}{2}$ in. dia. Control (Yellow) and stagger by 100 mm (50mm each way) the cuts.

9.2 Remove manual valve, bulkhead adaptor, and palm couplings from respective mounting brackets and discard. Release clip on crossmember (Emergency supply) where fitted. (See Figs 3a and 3b).

9.3 Fit a straight adaptor to both lines and fit 100mm length of Spiro Wrap to any pipes in vicinity, to protect from chaffing.

9.4 Make up and fit replacement self-sealing palm couplings, bulkhead adaptor combination to the mounting bracket. Emergency (Red) outlet and 12mm dia. pipe to the right-hand side and the Service (Yellow) outlet and 12 mm dia. pipe to the left-hand side when viewed from the rear. An M23 plain washer should be fitted on the inside of the adaptor and a shouldered washer on the outside, to compensate for the oversize hole in the bulkhead and to ensure no lateral movement of the pipe. (See Fig 4).

9.5 Connect each supply line back to the newly fitted straight adaptors.

TESTING AFTER EMBODIMENT

10 Run the engine, and charge the system, then check for leaks and rectify as needed.

EFFECT ON WEIGHT

11 Negligible.

PUBLICATION AMENDMENTS**NOTE**

Necessary amendments will be issued separately.

12 Nil.

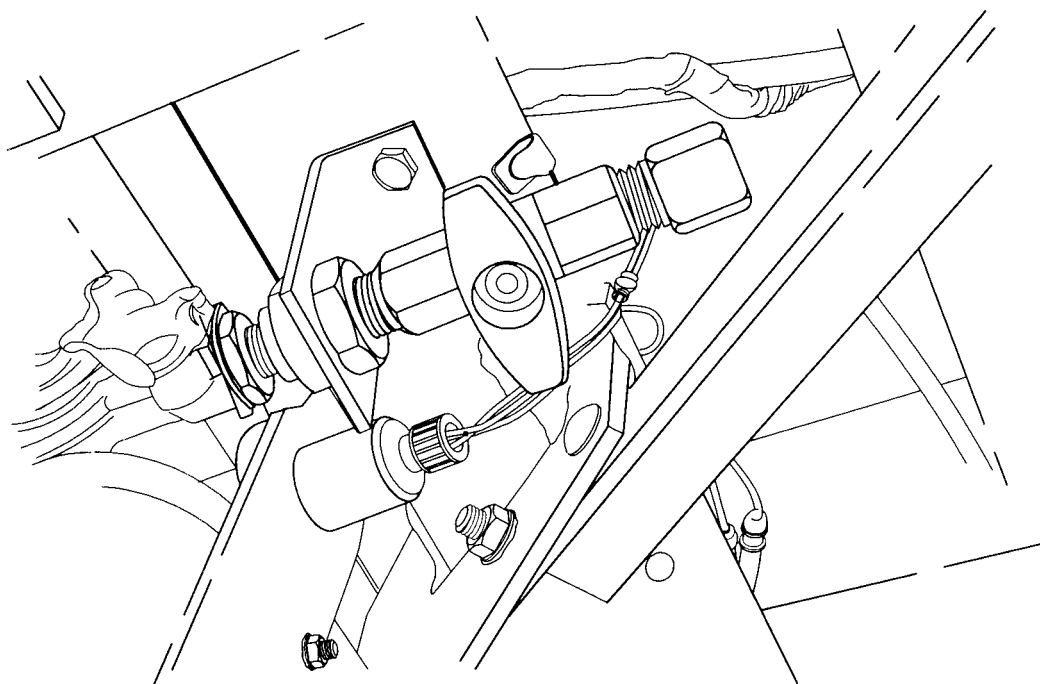


Fig 1 Typical installation of palm coupling, valve
and mounting bracket

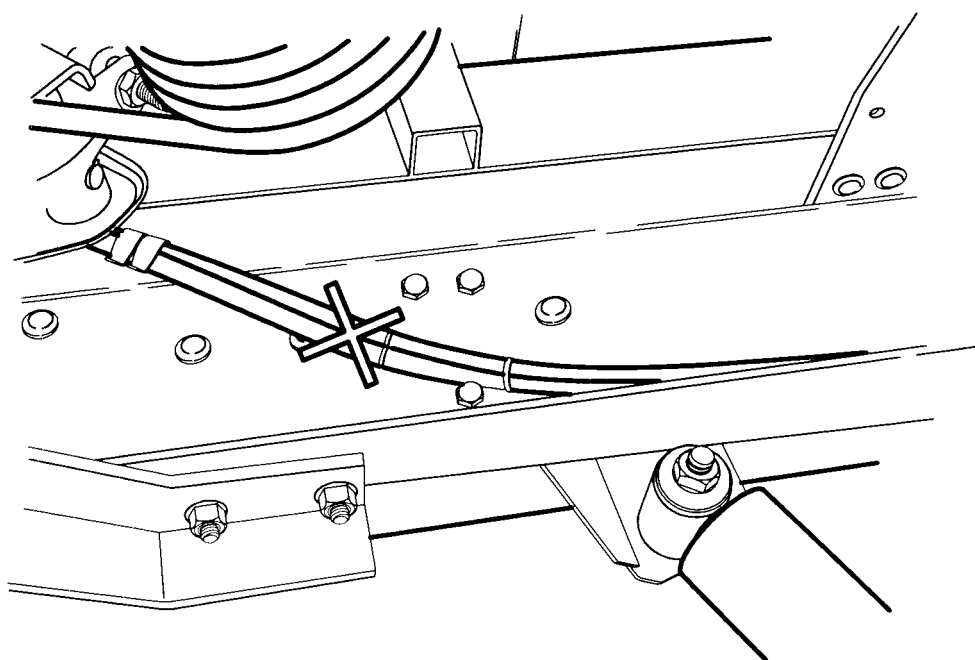


Fig 2 Recommended cutting point for existing pipe
(stagger each way 50 mm)
(Viewed from inside of left hand side member)

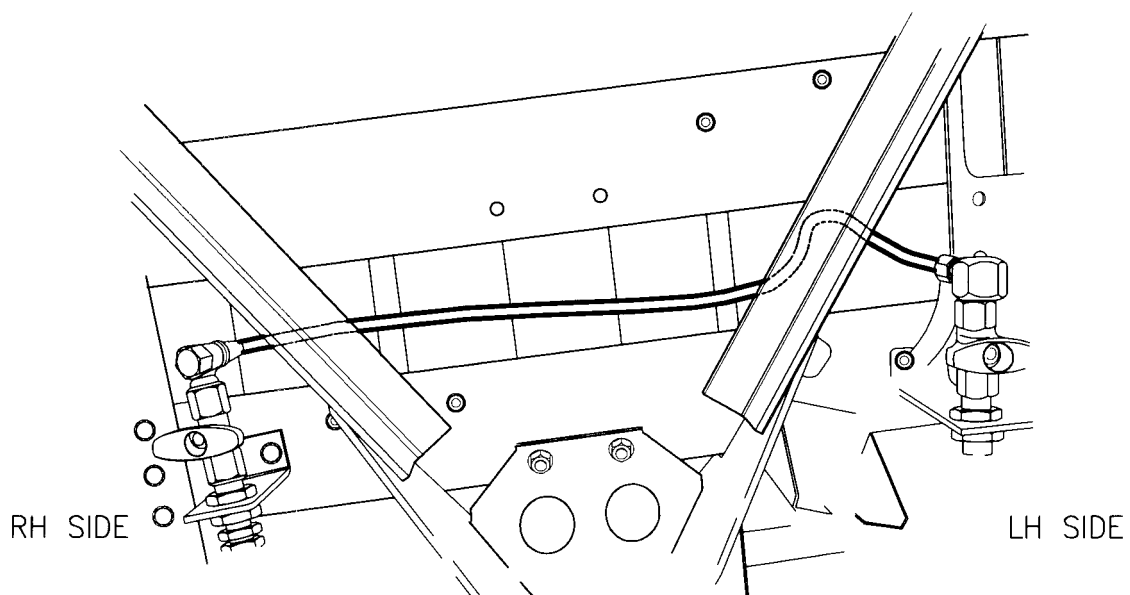


Fig 3a Transverse pipe run (un-clipped)
(Viewed from underside of rear crossmember)

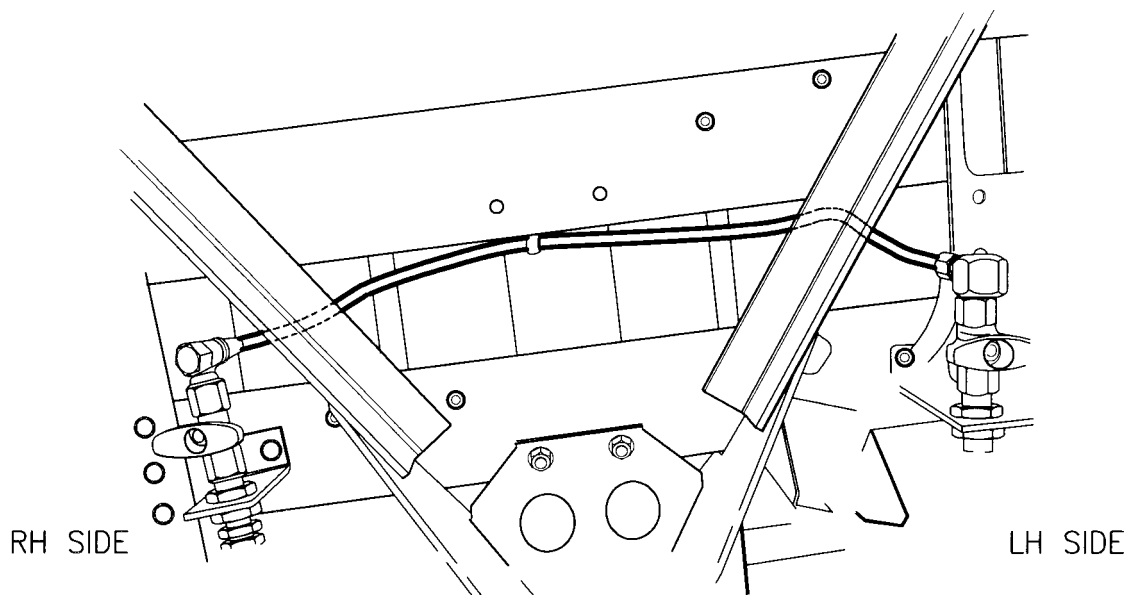


Fig 3b Transverse pipe run (clipped)
(Viewed from underside of rear crossmember)

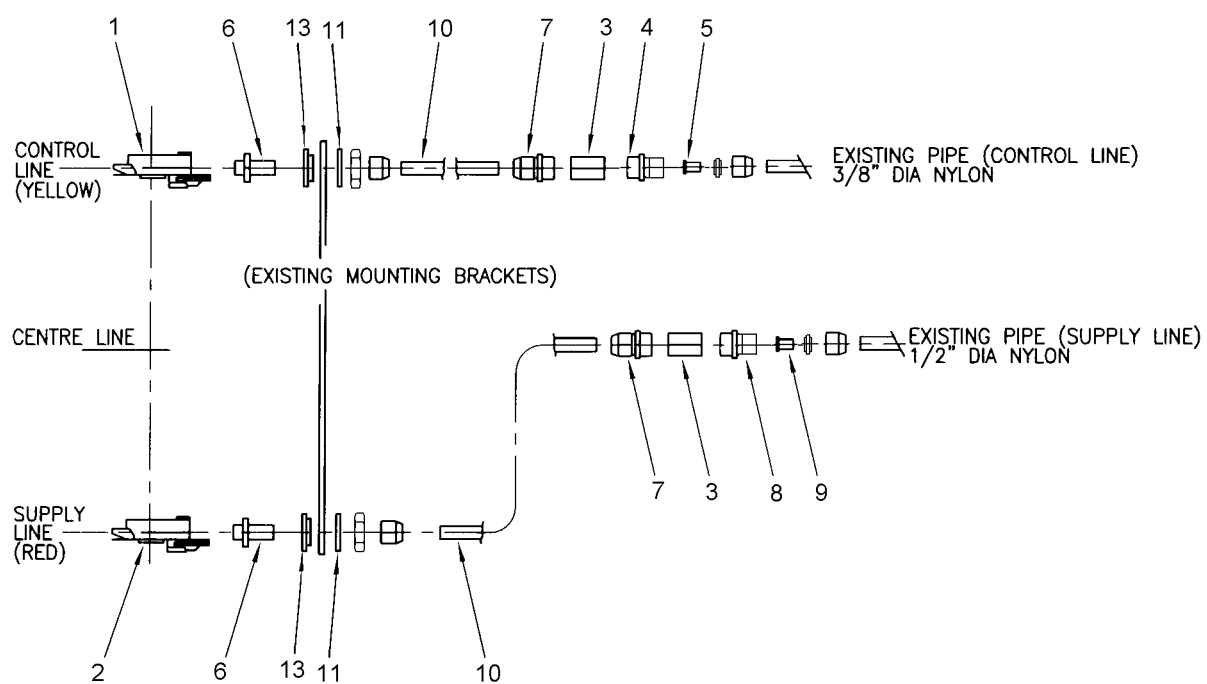


Fig 4 New installation for 4 tonne Bedford

TRUCK 4 TONNE 4 X 4 BEDFORD MJ (ALL VARIANTS)

MODIFICATION INSTRUCTION No. 31

Sponsor: GSV IPT
Project No.: Task UEL 041
File Ref: PDS1A/504

Publication Authority: DGS&E TIG Andover

AMENDMENT RECORD

Amdt No.	Incorporated By (Signature)	Date
1		
2		
3		

Amdt No.	Incorporated By (Signature)	Date
4		
5		
6		

SUBJECT: Tool box replacement

(Approval No. GSV/04/087)

INTRODUCTION

1 In order to comply with new ADR legislations, heavy goods vehicles carrying ADR loads are now required to carry 2 x 6 Kg fire extinguishers, and embody external wheel chock storage. This instruction details the replacement fit of a rear tool bin, with one encompassing an additional fire extinguisher fit. It will need to be carried out in addition to the wheel chock mounting instruction to ensure compliance. These modifications will be carried out on selected vehicles only, in line with fleet management policy.

1.1 Limitations on use of equipment. Nil.

APPLICABILITY

2

2.1 Applicable to all Bedford 4 tonne 4 X 4 series vehicles except those that follow:

1310-3100 Recce Veh Whd Light 4T
1311-3100 Recce Veh Whd Light 4T (Winter)
2091-3105 Truck Flat Platform 4T Ptarmigan
2091-3106 Truck Flat Platform 4T Ptarmigan
2091-8105 Truck Flat Platform 4T Ptarmigan
2091-8106 Truck Flat Platform 4T Ptarmigan
2091-8107 Truck Flat Platform 4T Ptarmigan PV
2091-8108 Truck Flat Platform 4T Ptarmigan PV
2092-3103 Truck Flat Platform 4T (Winterised) Ptarmigan
2092-3103 Truck Flat Platform 4T (Winterised) Ptarmigan PV

2.2 Unmodified stock, held at all levels of technical storage.

REASON FOR MODIFICATION/INTRODUCTION

3

3.1 Code 1 - to improve safety.

PRIORITY

4

4.1 ARMY: Immediate.

4.2 RAF: Immediate.

ESTIMATED TIME REQUIRED

5

5.1 Dismantling: 1 man-hour.

5.2 Embodiment: 2 man-hours.

5.3 Assembling: 1 man-hour.

5.4 Testing: Nil man-hours.

5.5 Manufacturing: Nil man-hours.

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This instruction is to be implemented by:

6.1.1 ARMY – Units authorized to carry out levels 2, 3 or 4 maintenance.

6.1.2 RAF - Units authorized to carry out levels 2, 3 or 4 maintenance.

Action required by

7

7.1 Units and establishments holding equipment.

7.1.1 Examine equipment documents to see if modification is applicable.

7.1.2 Examine equipment or modification record plate to see if modification is embodied and where necessary Units with 1st Line REME Support demand the stores required.

7.1.3 ARMY - On receipt of stores, request REME to modify equipment.

7.1.4 ARMY - Record the AESP and instruction number in equipment documents.

7.1.5 RAF - Record modification details on AF G1084A and Form 4870. Units operating STAMA are also to record modification details on ADP MTMS Job Certification Sheet and to follow the procedures laid down in AP 100C-08A.

7.2 Army units authorized to carry out levels 2, 3 and 4 maintenance and RAF units.

7.2.1 ARMY - When requested by units or during overhaul of equipment on charge without REME 1st Line Support, obtain the items listed in Para 8 and carry out this modification.

7.2.2 Record completion details of modification against appropriate entry in vehicle documents.

7.2.3 Complete AF G1084A when reporting completion of the modification to FORWARD (RAF) using the following code:

RAF: MODIFICATION CODE: AFC 316

NOTE

RAF units operating STAMA are also to complete ADP MTMS Job Certification Sheet and to follow the procedures laid down in AP 100C-08A.

7.3 All recipients of this instruction. Add particulars to AESP 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded.

8.1.1 The following item(s)/set are/is to be demanded quoting this instruction as the authority.

8.1.2 Registration number of vehicle for equipment held by user units.

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
		2540-99-1499486	Mod set comprising:	1
1			Tool/CES Box	(1)
2			Rear Light Support Brackets	(2)
8.2		<u>Stores or suitable equivalent to be obtained locally/demanded.</u>		
3		4210-99-898-0314	Fire Extinguisher 6 Kg ABC Powder	(1)
4		5310-99-831-0667	Penny Washers M8 X 21 (BS4320 Form D)	(4)
5			Screws, Hex Head M5 X 12 (BS3692)	(4)
6			Nuts M5 (BS3692)	(4)
7			Washers M5 (BS4320 Form A)	(8)
8			Washers, Single Coil M5 (BS4464)	(4)

8.3 Tools and stores to be manufactured.

None

8.4 Stores to be removed and returned through normal channels/reduced to scrap.

9 Toolbox (1)

8.5 Items/stores to be modified.

None

8.6 Special tools and test equipment required.

None

Sequence of operations**NOTE**

The item numbers of Para 8 are used as reference throughout this instruction.

9 Carry out this instruction as follows:

9.1 Remove the existing toolbox (9) as follows:

9.1.1 During this instruction identify and record the position and type of all the removed items. These will be required for the installation instruction. Replace or repair any damaged or corroded items as necessary.

9.1.2 Identify the toolbox (9); it is located at the left rear corner of the vehicle behind the left rear mudguard.

9.1.3 Remove all tools and equipment from the toolbox (9) and open the access door.

9.1.4 Release the wiring loom of the left rear light assembly from the toolbox (9) and the long-vehicle reflective marker-board.

9.1.5 Hold the left rear light assembly in position. Remove the four screws, nuts and spring washers that attach it to the toolbox (9). Remove the light assembly and support it clear of the work area.

9.1.6 Hold the left rear long-vehicle reflective marker-board in position. Remove the two bolts, nuts and spring washers that attach it to the toolbox (9). Remove the marker board from the vehicle.

9.1.7 Remove the four bolts, nuts and spring washers that attach the toolbox (9) to the two support brackets on the left rear mudguard.

WARNING

PERSONNEL HAZARD. THE TOOL BOX IS HEAVY IT MUST BE SUPPORTED SAFELY DURING THE REMOVAL PROCEDURE. OTHERWISE INJURY TO PERSONNEL OR DAMAGE TO EQUIPMENT MAY OCCUR.

9.1.8 Support the toolbox (9). Remove the four bolts, nuts and spring washers that attach it to the channels on the underside of the vehicle load bed.

9.1.9 Carefully move the toolbox (9) to the rear and lower it to the ground and remove it from beneath the vehicle.

9.1.10 Carefully remove the cable clips from the rear of the toolbox (9) for use in the installation procedure.

9.1.11 Dispose of the toolbox (9) in accordance with current regulations.

9.2 Prepare the new tool/CES box (1) as follows:

9.2.1 Refer to Fig 1, mark out and drill to 9 mm the four holes in the top surface of the new tool/CES box (1).

9.2.2 Refer to Fig 2, mark out and drill to 9 mm the six holes on the bottom face of the new tool/CES box (1). These are for the mudguard support brackets and the long vehicle marker board.

9.2.3 Refer to Fig 3, mark out and drill to 6 mm the four holes for the new angle brackets for the rear light mounting.

9.2.4 De-burr all drilled holes and remove all swarf from the inside of the new tool/CES box (1).

9.2.5 Refer to current procedures/regulations and apply a suitable protective coating to all exposed metal surfaces.

9.3 Install the new tool/CES box (1) as follows:

WARNING

PERSONNEL HAZARD. THE TOOL BOX IS HEAVY IT MUST BE SUPPORTED SAFELY DURING THE REMOVAL PROCEDURE. OTHERWISE INJURY TO PERSONNEL OR DAMAGE TO EQUIPMENT MAY OCCUR.

9.3.1 Support the new tool/CES box (1) in its installed position.

9.3.2 You must install the bolts with their heads inside the new tool/CES box (1), to prevent damage to the fire extinguisher/CES.

9.3.3 Attach the new tool/CES box (1) to the channels on the underside of the vehicle load bed with the four bolts, nuts, new-penny washers (4) and spring washers. Do not fully tighten the nuts at this time.

9.3.4 If necessary adjust the mudguard support brackets to align with the related bolt holes in the bottom of the new tool/CES box (1). Make sure that the gap between the mudguard and new tool/CES box (1) remains even and the mudguard is not distorted.

9.3.5 Attach the new tool/CES box (1) to the support brackets on the left rear mudguard with the four bolts nuts and spring washers. Do not fully tighten the nuts at this time.

9.3.6 Make sure that the new tool/CES box (1) is correctly positioned and tighten the nuts installed at para 9.3.3 and 9.3.5.

9.3.7 Hold the left rear long-vehicle reflective marker-board in position on the underside of the new tool/CES box. Install the two bolts, nuts and spring washers that attach it to the new tool/CES box (1). Tighten the nuts.

- 9.3.8 Attach the two new rear light support brackets (2) to the tool/CES box with the four screws (5), washers (7), spring washers (8) and nuts (6). Tighten the four nuts (6).
- 9.3.9 Hold the left rear light assembly in position on the rear of the new tool/CES box. Install the four screws, nuts and spring washers that attach it to the new rear light support brackets (2). Tighten the fixings.
- 9.3.10 Clip the wiring loom of the left rear light assembly to the light support bracket and the long-vehicle reflective marker-board. If necessary use the additional clips removed at 9.1.10 to make sure that the loom is securely clipped in position.
- 9.3.11 Examine the installation and make sure that all fasteners are in safety and wiring looms are correctly routed.
- 9.3.12 Refer to current procedures/regulations and apply a suitable protective coating to all exposed metal surfaces, nuts, bolts and screws.
- 9.3.13 Install any equipment removed at 9.1.3 in the new tool/CES box (1).

CAUTION

EQUIPMENT DAMAGE. The door of the new tool/CES box must be secured with a suitable padlock before the vehicle is moved. If you do not do this, the door/other equipment may be damaged or equipment may be lost from the compartment.

- 9.3.14 Secure the new toolbox/CES box (1) door with the CES padlock. Make sure that the related keys are attached to the vehicle keyring.
- 9.3.15 Install a serviceable fire extinguisher 6 Kg ABC Powder (3) in the new tool/CES box (1). Make sure that the loop on the fire extinguisher is located over the bracket in the new toolbox/CES box (1).

TESTING AFTER EMBODIMENT

10 Nil.

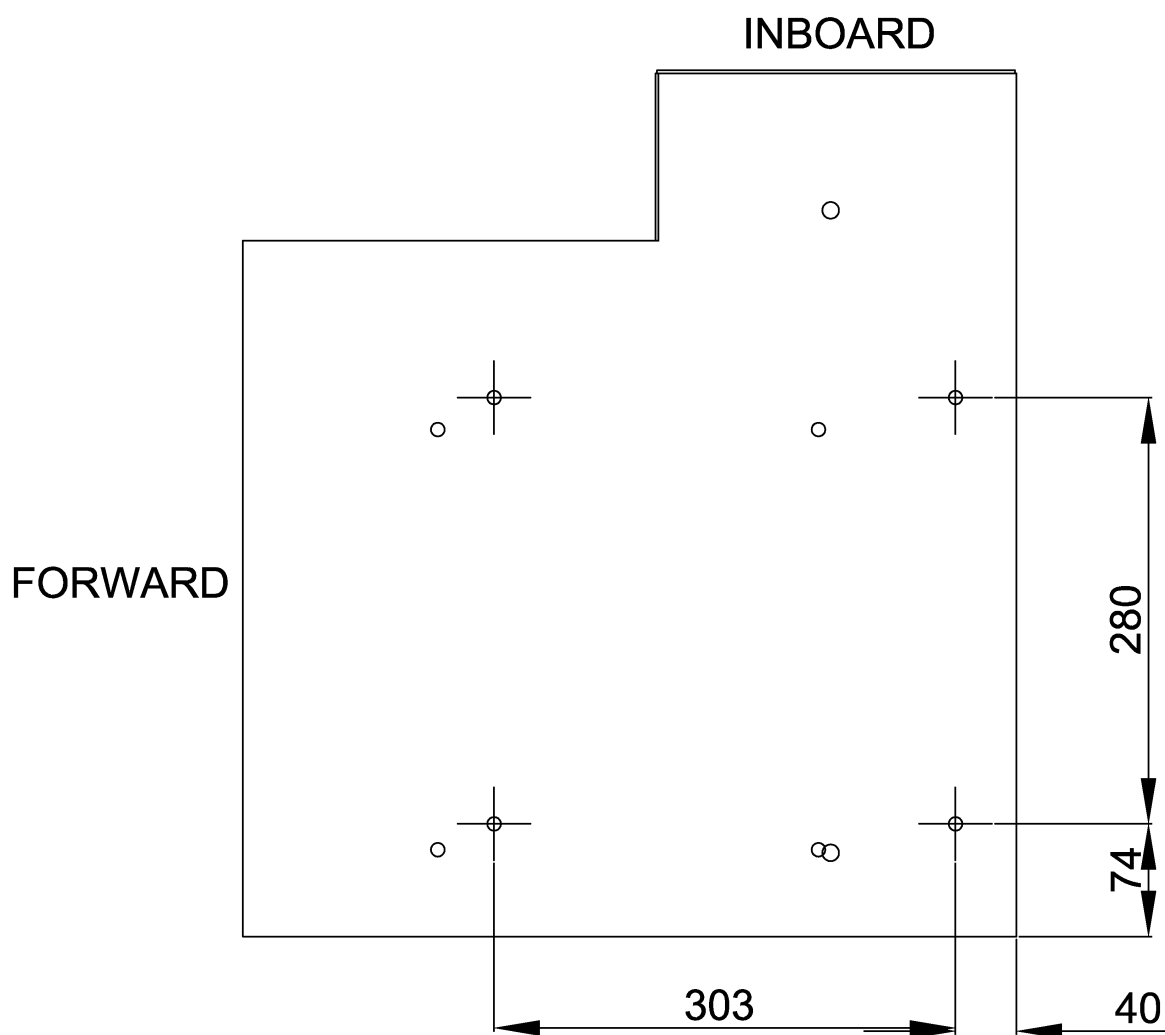
EFFECT ON WEIGHT

11 Negligible.

PUBLICATION AMENDMENTS**NOTE**

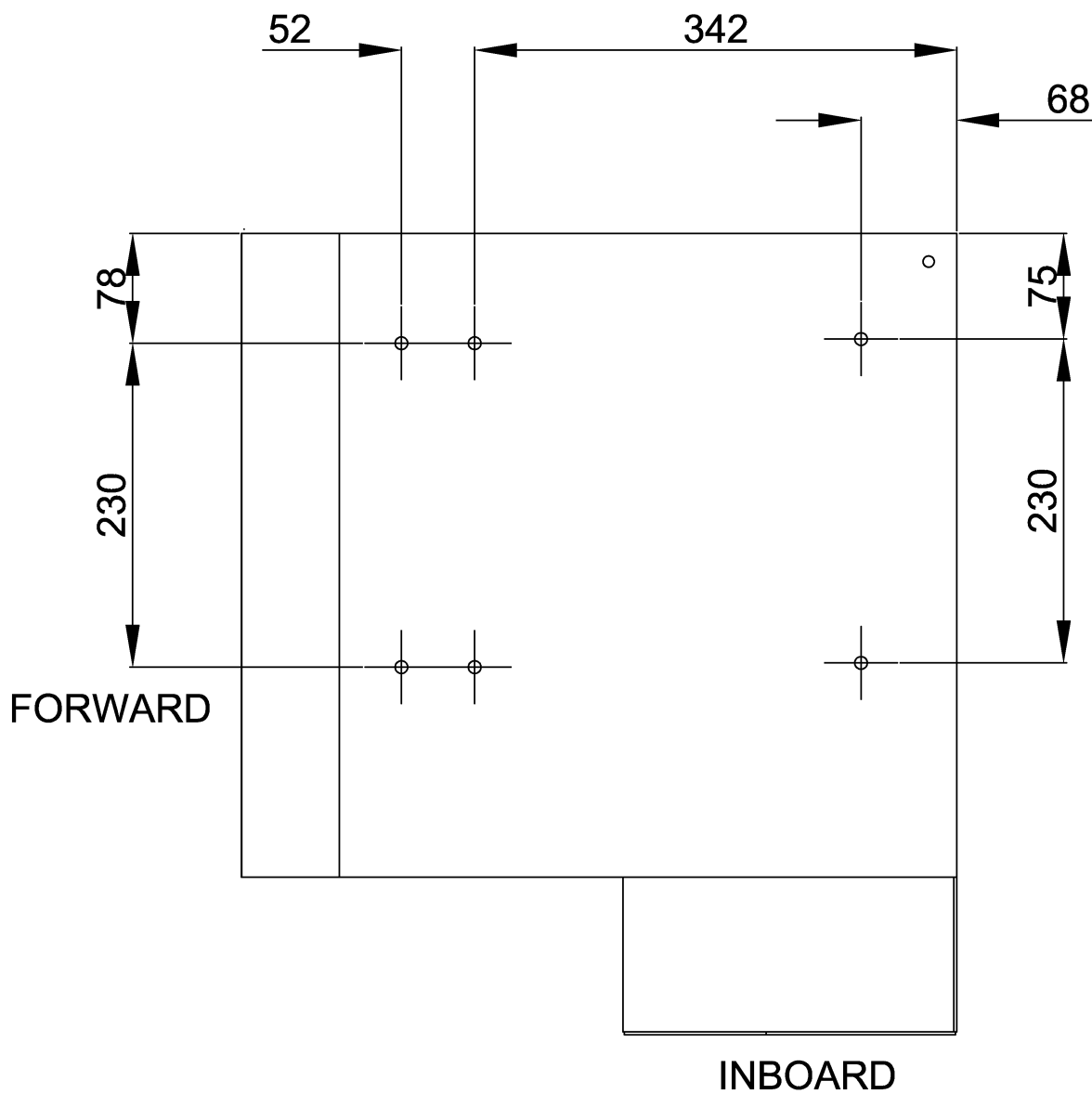
Necessary amendments will be issued separately.

12 Nil.



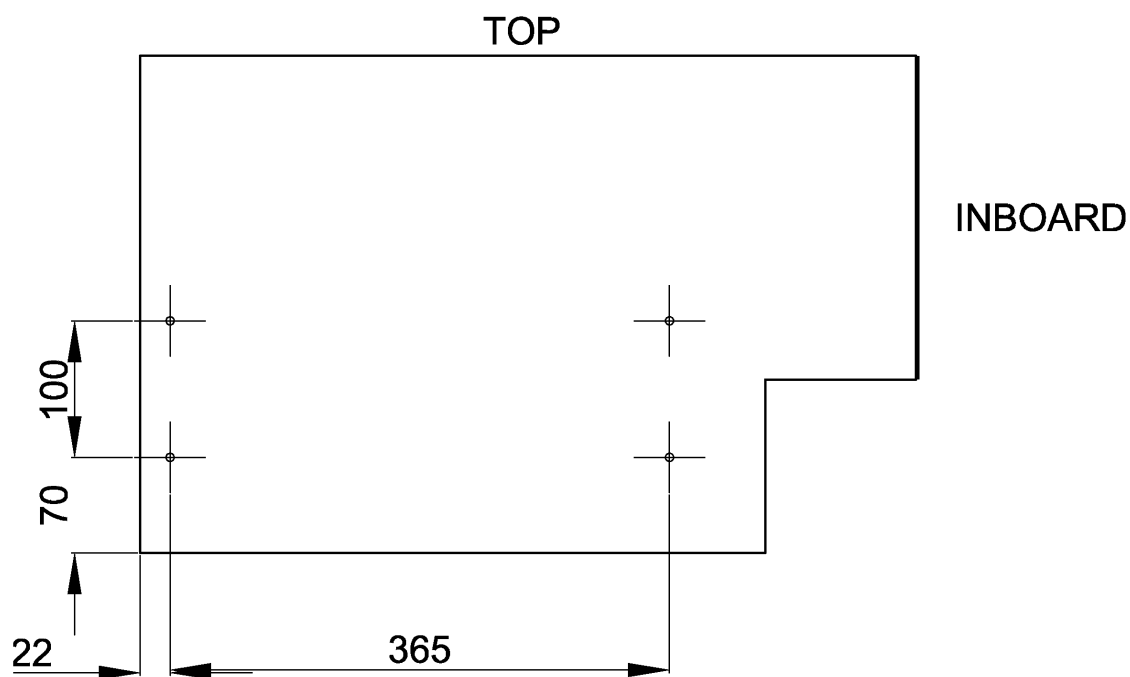
All dimensions in millimetres

Fig 1 View on the top face of the tool/CES box



All dimensions in millimetres

Fig 2 View on the bottom of the tool/CES box



All dimensions in millimetres

Fig 3 View on the rear of the tool/CES box

TRUCK 4 TONNE 4 X 4, BEDFORD MJ SERIES

MODIFICATION INSTRUCTION No. 32

Sponsor: GSV IPT
Project No.: Task 052
File Ref: PDS 1A/504

Publication Authority: TES TD Andover

AMENDMENT RECORD

Amdt No.	Incorporated By (Signature)	Date
1		
2		
3		

Amdt No.	Incorporated By (Signature)	Date
4		
5		
6		

SUBJECT: Height Indicators (Approval No. GSV/04/091)

INTRODUCTION

1 In order to comply with Construction & Use Regulations, all vehicles and loads with a height greater than 3 metres are to have in-cab height indicators fitted.

1.1 Limitations on use of equipment. Nil.

APPLICABILITY

2

2.1 Applicable to all Bedford 4 tonne 4 x 4 series vehicles held by user units.

2.2 Unmodified stock, held at all levels of technical storage.

REASON FOR MODIFICATION

3

3.1 To comply with Legislation and improve safety.

PRIORITY

4

4.1 ARMY: Immediate.

4.2 RAF: .

ESTIMATED TIME REQUIRED

5

5.2 Embodiment: 0.4 man hours

5.4 Testing: Nil

MODIFICATION IMPLEMENTATION PLAN

6

6.1 This instruction is to be implemented by:

6.1.1 ARMY – Units authorised to carry out levels 1, 2, 3 and 4 maintenance.

6.1.2 RAF – Units when found necessary.

Action required by

7

7.1 Units and establishments holding equipment:

7.1.1 Examine equipment documents to see if modification is applicable.

7.1.2 Examine equipment or modification record plate to see if modification is embodied and where necessary Units with 1st Line REME Support demand the stores required.

7.1.3 ARMY – On receipt of stores, request REME to modify equipment.

7.1.4 ARMY – Record the AESP and instruction in equipment documents.

7.1.5 RAF – Record modification details on AF G1084A and form 4870. Units operating STAMA are also to record modification details on ADP MTMS Job Certification Sheet to follow the procedures laid down in AP 100C-08A.

7.2 Army units authorised to carry out levels 1, 2, 3 and 4 maintenance and RAF units:

7.2.1 ARMY - When requested by users or during overhaul of equipment on charge without REME 1st Line Support, obtain the items listed in Para 8 and carry out this modification.

7.2.2 Record completion details of modification against appropriate entry in vehicle documents.

7.2.3 Complete AF G1084A when reporting completion of the modification to FORWARD (RAF) using the following code:

RAF: MODIFICATION CODE AFC319

NOTE

RAF units operating STAMA are also to complete ADP MTMS Job Certification Sheet and to follow the procedures laid down in AP 100C-08A.

7.3 All recipients of this instruction. Add particulars to AESP 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded.

8.1.1 The following items and modification set is to be demanded quoting this instruction as the authority for demand and

8.1.2 Registration number of vehicle for equipment held by user units.

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
	7WTK	9905 01 507 4721	Indicator HT, Veh	1

Sequence of operations

9 Carry out this instructions as follows:

9.1 Ensure the area the indicator is to be applied to is clean, dry and free from grease.

9.2 Peel protective tape off self-adhesive strips and apply HT indicator to recommended area as per the illustration. Press firmly to ensure self-adhesive strips apply. Adjust the numbers to reflect the height of the vehicle and load.

TESTING AFTER EMBODIMENT

10 Nil

EFFECT ON WEIGHT

11 Negligible.

PUBLICATION AMENDMENTS

NOTE

Necessary amendments will be issued separately.

12 Nil.



Fig 1 Position on Heater box for HT Indicator.
(Viewed from RHS of cab)

TRUCK 4 TONNE 4 X 4 BEDFORD MJ (ALL VARIANTS)

MODIFICATION INSTRUCTION No. 33

Sponsor: GSVIPT
Project No: Task 054
File Ref: PD51A/504

Publication Authority: DGS & E TIG Andover

AMENDMENT RECORD

Amdt No.	Incorporated By (Signature)	Date
1		
2		
3		

Amdt No.	Incorporated By (Signature)	Date
4		
5		
6		

SUBJECT: Wheel chock bracket assy

(Approval No: GSV/04/0105)

INTRODUCTION

1 In order to comply with new ADR legislations, heavy goods vehicles carrying ADR loads are now required to carry external wheel chocks and 2 x 6 kg fire extinguishers. This instruction details the embodiment of a pair of wheel chocks storage positions and will need to be carried out in addition to the replacement fit of a rear tool bin, encompassing an additional fire extinguisher fit to ensure compliance.

1.1 Limitations on use of equipment. Nil.

APPLICABILITY

2

2.1 Applicable to all Bedford 4 tonne 4 x 4 series held by user units.

2.2 Unmodified stock, held at all levels of technical storage.

REASON FOR MODIFICATION/INTRODUCTION

3

3.1 Code 1 - to improve safety.

PRIORITY

4

4.1 ARMY: Routine.

4.2 RAF: Class TBA.

ESTIMATED TIME REQUIRED

5

- 5.1 Embodiment: One (1) man-hour per side of vehicle.

MODIFICATION IMPLEMENTATION PLAN

6

- 6.1 This instruction is to be implemented by:
- 6.1.1 ARMY - Units authorized to carry out levels 2, 3 or 4 maintenance.
- 6.1.2 RAF - Units not later than the next maintenance and Vehicle Depots before issue of vehicle.

Action required by

7

- 7.1 Units and establishments holding equipment.
- 7.1.1 Examine equipment documents to see if modification is applicable.
- 7.1.2 Examine equipment or modification record plate to see if modification is embodied and where necessary Units with 1st Line REME Support demand the stores required.
- 7.1.3 ARMY - On receipt of stores, request REME to modify equipment.
- 7.1.4 ARMY - Record the AESP and instruction number in equipment documents.
- 7.1.5 RAF - Record modification details on AF G1084A and Form 4870. Units operating STAMA are also to record modification details on ADP MTMS Job Certification Sheet and to follow the procedures laid down in AP 100C-08A.
- 7.2 Army units authorized to carry out levels 2, 3 and 4 maintenance and RAF units.
- 7.2.1 ARMY - When requested by units or during overhaul of equipment on charge without REME 1st Line Support, obtain the items listed in Para 8 and carry out this modification.
- 7.2.2 Record completion details of modification against appropriate entry in vehicle documents.
- 7.2.3 Complete AF G1084A when reporting completion of the modification to FORWARD (RAF) using the following code:
- RAF: MODIFICATION CODE AFC 322.
- NOTE
- RAF units operating STAMA are also to complete ADP MTMS Job Certification Sheet and to follow the procedures laid down in AP 100C-08.
- 7.3 All recipients of this instruction. Add particulars to AESP 2320-H-100-811 Mod Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded.

8.1.1 The following item(s)/set are/is to be demanded quoting this instruction as the authority.

8.1.2 Registration/Serial number of vehicle/engine/assembly for equipment held by user units.

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
		2540-99-212-7006	Wheel Chock	2
		2590-99-562-5942	Spring Clip	2
		2590-99-213-1131 (A6000191)	Mod kit comprising:	2
1		A6000192	Mounting Plate	(1)
2		A6000193	Side Hangars	(2)
3		A6000194	Cross Straps	(2)
4		A6000209	Hex Head screws 5/16" UNC x 1"	(12)
5		A6000210	Nuts Nyloc 5/16" UNC	(12)
6		A6000211	Washers Plain 5/16" UNC	(24)

8.3 Tools and stores to be manufactured.

None.

8.4 Stores to be removed and returned through normal channels/reduced to scrap.

None.

8.5 Items/stores to be modified.

None.

8.6 Special tools and test equipment required.

None.

Sequence of operations

NOTE

The item numbers of Para 8 are used as reference throughout this instruction.

- 9 Carry out this instruction as follows:

Left Hand Side

- 9.1 The Chock Bracket Assembly (Fig 1) is to be mounted under the Jerry can holder.
- 9.2 The assembled bracket assembly is to be offered up to the underside of the Jerry can holder and mounting hole positions marked.
- 9.3 4 holes x 9mm diameter are to be drilled in the Jerry can box, confirm all holes line up with the existing holes in the side hangars plates.
- 9.4 The Chock Bracket assembly can then be fixed with the screws, nuts and washers provided in the kit. Bolts to be installed upwards to avoid any protruding threads in hand access area.

NOTE

The Spring Clip (NSN 2590-99-562-5942) must be secured on the baseplate of the Chock Bracket assembly using the existing screws, nuts and washers (see Fig 2).

- 9.5 The Cross straps are not required.

Right Hand Side

- 9.6 The assembled Chock Bracket Assembly (Fig 1) is to be mounted at the rear of the Fire extinguisher and directly forward of the rear wheels.
- 9.7 The assembled bracket is to be offered to the underside of the rear deck and mounting hole positions marked.
- 9.8 3 holes x 9mm diameter are to be drilled in the deck crossmember (non chassis structural) confirm all holes line up with existing holes in the side hanger plates.
- 9.9 The Chock Bracket assembly can then be fixed with the screws, nuts and washers provided in the kit. Bolts to be installed upwards to avoid the protruding threads in hand access area.

NOTES

- (1) The Spring Clip (NSN 2590-99-562-5942) must be secured on the baseplate of the Chock Bracket assembly using the existing screws, nuts and washers (see Fig 3).
- (2) Some variants of the 4 TONNE Bedford trucks will have different fixing positions (for the LH & RH sides) to accommodate the Wheel Chock Bracket.

TESTING AFTER EMBODIMENT

- 10 Ensure Wheel Chocks can be freely fitted and removed from mounting position.

EFFECT ON WEIGHT

- 11 Negligible.

PUBLICATION AMENDMENTS

NOTE

Necessary amendments will be issued separately.

- 12 Nil.

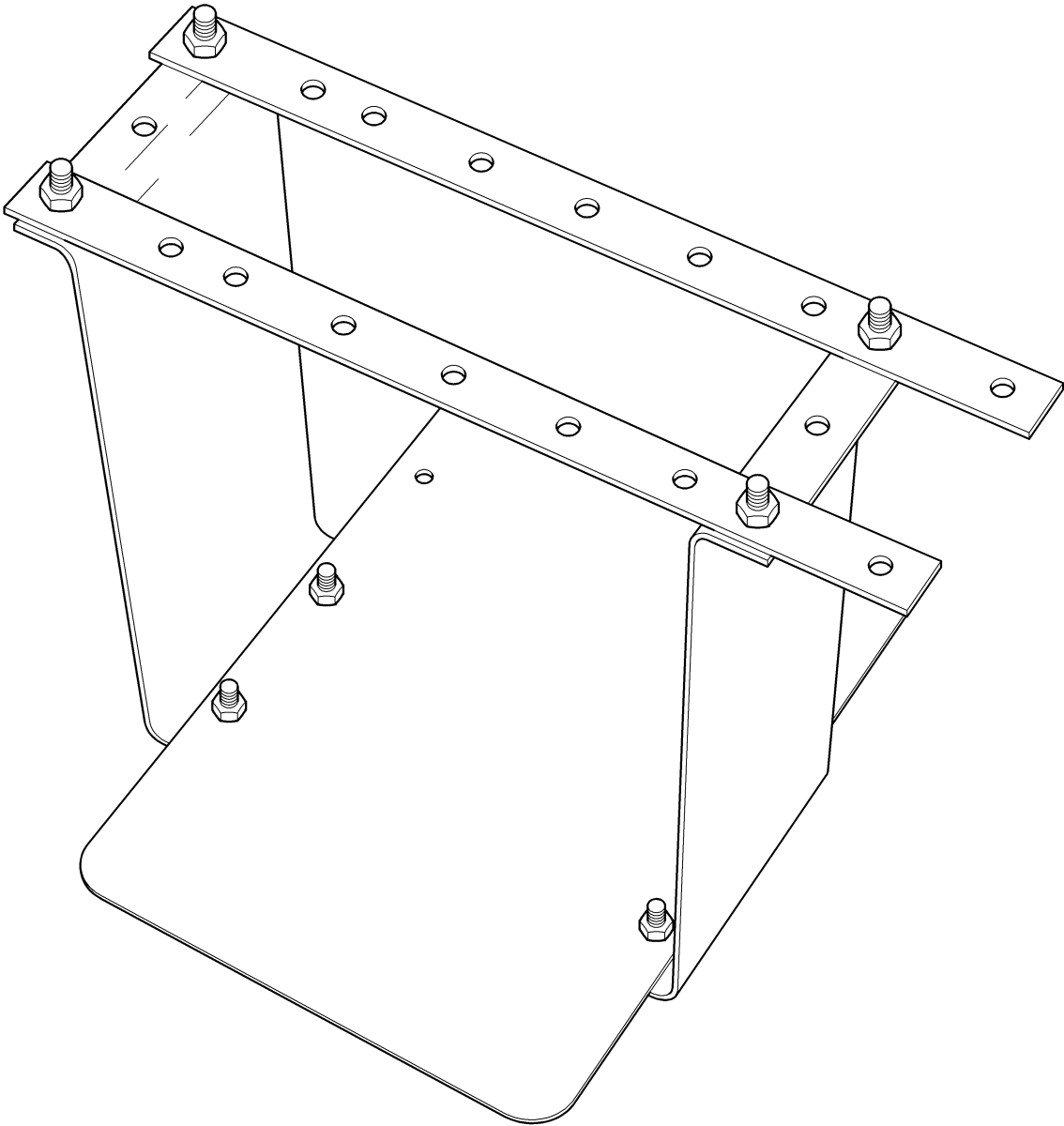


Fig 1 Typical wheel chock bracket mounting assembly

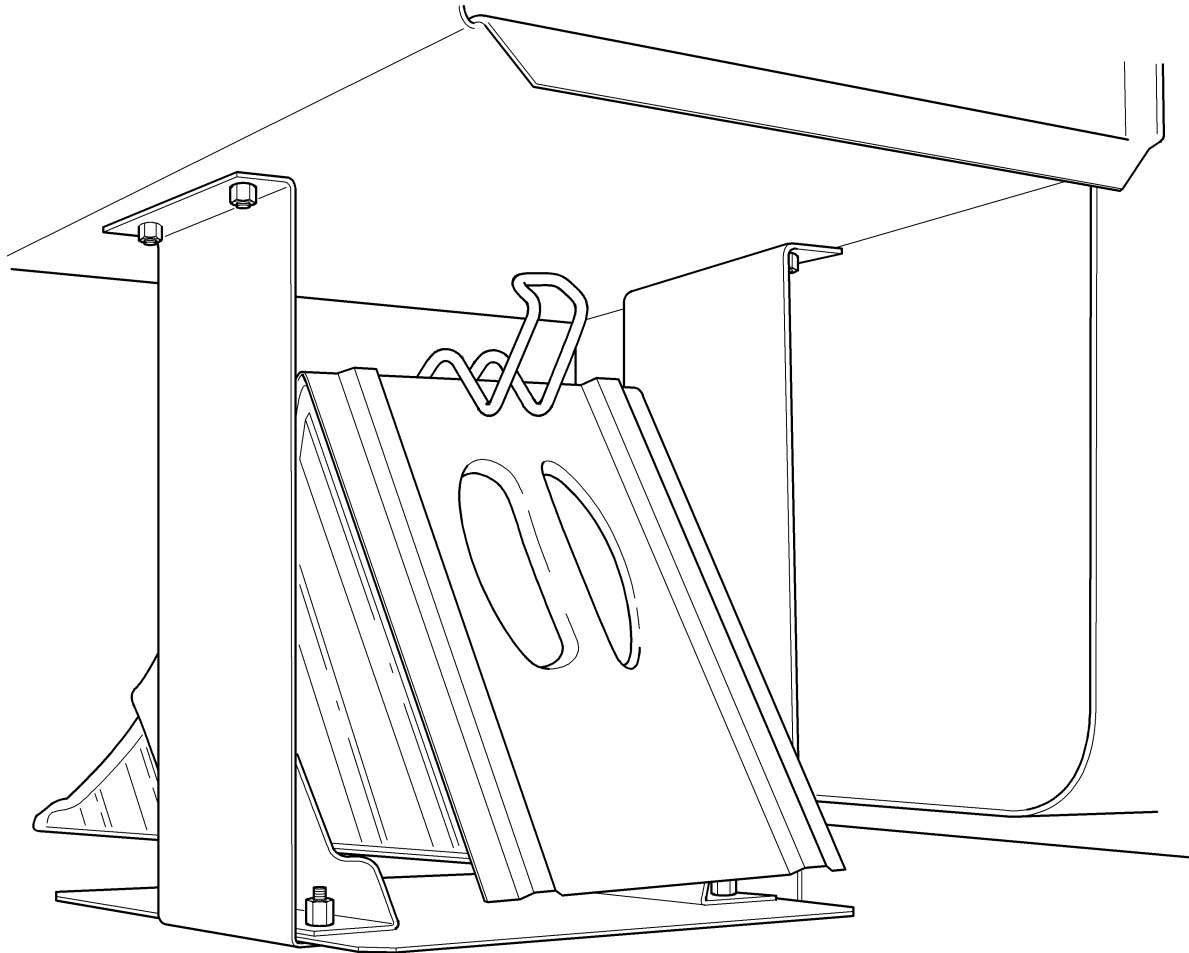


Fig 2 Wheel chock fixing LH side

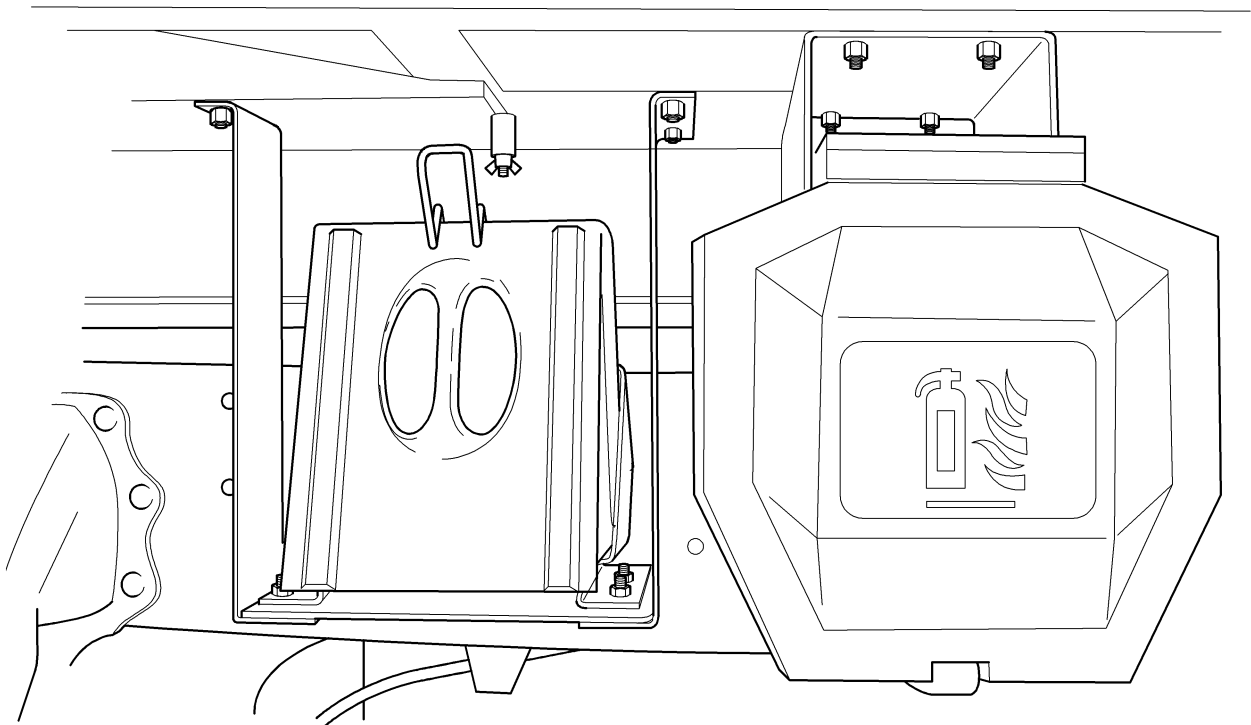


Fig 3 Wheel chock fixing RH side

