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# **CARRIER, ARMoured STAFF VEHICLE, FULL TRACKED, MK 2 AND 2/1 FV436 (ASV)**

## **MODIFICATION INSTRUCTIONS AND INDEX**

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**BY COMMAND OF THE DEFENCE COUNCIL**

Ministry of Defence  
Issued by  
**DEFENCE LOGISTICS ORGANISATION**

AMENDMENT RECORD

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PREFACE

Sponsor:  
DGES(A)  
File ref:

Publication Agency:  
DLO Chertsey  
Project No: 97/41c/217(239)  
File ref: Admin 281

INTRODUCTION

- 1 The Publication Agency is responsible for the allocation of instruction numbers.
- 2 All modification instructions as issued are to be recorded in manuscript by the recipient on the Numerical Modification Instruction Index provided. Amendments to individual instructions are to be recorded on the instruction amendment record. All extant instructions and amendments can be found listed in the main AESP index.

NOTE

The Publication Agency is responsible for the preparation and maintenance of the Instruction Index and will advise the Distribution Authority on the issue of completed and subsequent blank index pages necessary.

- 3 Service users should forward any comments on this publication through the channels prescribed in AESP 0100-P-011-013. An AESP Form 10 is provided after the preliminary pages of this publication; it should be photocopied and used for forwarding comments on this AESP to DLO DTS.
- 4 AESPs are issued under Defence Council authority and where AESPs specify action to be taken, the AESP will of itself be sufficient authority for such action and also for the demanding of the necessary stores.

MODIFICATION INSTRUCTION INDEX

Priority (Pty) is shown as: Immediate: I Routine: R

Instr No. (1)	Pty (2)	Page Nos. (3)	Amend-ment No. (4)	Subject (5)	Approval No./Remarks (6)
1	(See Col 6)			EMER TV E 107/6 Mod Instr No. 1 to No. 6	Priority as detailed in each instruction
2	R	4		FUEL TANK FILTER	43/0/0046
3	I	6		REAR MARKER BOARDS	43/6/0012
4	R			FLOOR PLATE	43/0/0060
5	I	4		INTRODUCTION OF CREW LAP BELTS	43/2/0020
6				HATCH LOCKING ARM (COMO)	
7					
8				MODIFIED GENERATOR FRAME	TBA
9					
10					

(continued)

**CARRIER, ARMOURED STAFF VEHICLE, FULL TRACKED, 2 AND 2/1 FV436 (ASV)**

**MODIFICATION INSTRUCTION NO. 1**

Sponsor:  
DGES(A)

Publication Agency:  
ATSA Chertsey  
Project No: 97/41c/217(239)  
File ref: Admin 281

**AMENDMENT RECORD**

Amdt No.	Incorporated By (Signature)	Date
1		
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Amdt No.	Incorporated By (Signature)	Date
4		
5		
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**SUBJECT: EMER TV E 107/6 Modification Instructions No. 1 to No. 6**

**INTRODUCTION**

1

- 1.1 The EMER decade (TV E 100/6 to E 109/6) that supports the FV436 is to be cancelled and replaced by AESP 2350-T-253-octad.
- 1.2 This AESP Modification Instruction No. 1 is a complete issue of EMER TV E 107/6 Modification Instructions No. 1 to No. 6 issued under the EMER system.
- 1.3 Subsequent Modification Instructions will be issued in AESP format, starting with Mod Instr No. 2.
- 1.4 Where the EMER TV E 107/6 Modification Instructions refer to an associated EMER TV E 100 series publication, this information will be incorporated within the appropriate Modification Instruction.
- 1.5 Remove and retain EMER TV E 107/6 Modification Instructions No. 1 to No. 6 from the EMER folder.
- 1.6 Place this instruction in front of Modification Instructions removed at Sub-Para 1.5.
- 1.7 Open a new folder numbered 2350-T-253-811 and titled CARRIER, ARMOURED STAFF VEHICLE, FULL TRACKED, 2 AND 2/1 FV436 (ASV) Modification Instructions, and place the EMER TV E 107/6 Modification Instructions within.
- 1.8 Limitations on use of equipment: As detailed within each Modification Instruction.

**APPLICABILITY**

2

- 2.1 FV436.

**REASON FOR MODIFICATION**

3

- 3.1 Code 6 - Publications changed from EMER to AESP format.

**PRIORITY**

4 Routine.

**TABLE 1 MODIFICATION INSTRUCTION INDEX**

Priority (Pty) is shown as: Immediate: I Routine: R

Instr No. (1)	Issue No. (2)	Pages (3)	Pty (4)	Subject (5)	Approval No./ Remarks (6)
1	2	1-6	I	AFV HOIST - Provision of dedicated generator hoist stowage and swivel mounting	20/6/0024/1 10/6/0027 20/43/6/006
2	1	1-6	I	2 kg Dry powder fire extinguisher	43/0/0013
3	1	1-4	R	Concealment set array brackets	43/0/0001
4	2	1-10	I	Amber rotating beacon	43/6/0004
5	1	1-6	I	Driver and commander's SA80 stowage	43/6/0002
6	1	1-4	I	Crew SA80 stowage	43/6/0006

**PUBLICATION AMENDMENTS****NOTE**

Necessary amendments will be issued separately.

5 Nil.

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CARRIER, ARMoured, STAFF VEHICLE, FULL TRACKED, FV 436 (ASV)

TECHNICAL HANDBOOK - MODIFICATION INSTRUCTION INDEX

Note ...

This Index is to be kept up to date by the User entering instructions issued under the above designation as and when they are published.

Instr No	Issue No	Pages	Subject	Approval No/ Remarks
(1)	(2)	(3)	(4)	(5)
1	2 8	1-6 -4	AFV HOIST - Provision of Mtg Plate Hoist & Generator Lifting frame	20/6/0024
2	1	1-6	2 Kg DRY POWDER FIRE EXTINGUISHER.	43/10/0013
3	1	1-4	CONCUSSION SET ARRAY BKTS	43/6/0001
4	2 X	1-10 1-8	AMBER ROTATING BEACON	43/6/0004
5	1	1-6	DRV & CMP SABO STOWAGE	43/6/0002
6	1	1-4	CREW SABO STOWAGE	43/6/0006
7				

Instr No	Issue No	Pages	Subject	Approval No/ Remarks
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**CARRIER, ARMoured, STAFF VEHICLE, FULL TRACKED, FV 436 (ASV)**

**TECHNICAL HANDBOOK - MODIFICATION INSTRUCTION NO. 1**

**SUBJECT: AFV HOIST: Provision of dedicated generator hoist stowage and swivel mounting.**  
Approval No. MAE 20/6/0024/1, 10/6/0027 and 20/43/6/006)

**INTRODUCTION**

1 To enable 1.5 and 3 kW generators to be dismantled and restowed on the vehicle as a one man operation, a support bracket is welded to the hull roof to accommodate the lifting accessories and hoist assembly.

1.1 Limitations on use of equipment: For field use only.

**APPLICABILITY**

2 Armoured enclosure roof.

2.1 Fitted to FV 436 (ASV) vehicles (Code No. 0754-3000) held by user units.

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

**REASON FOR MODIFICATION**

3 To improve maintainability.

**PRIORITY**

4 Immediate,

**ESTIMATED TIME REQUIRED**

5

5.1 Embodiment: 4 man-hours.

5.2 Testing: 1 man-hour.

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ATSA Chertsey

9706/WRP0903  
May 98, Issue 2 (24N)



**MODIFICATION IMPLEMENTATION PLAN**

6

- 6.1 This modification is to be implemented by units authorized to carry out levels 2, 3 and 4 maintenance.
- 6.2 Associated modification instructions: Nil.
- 6.3 Modification 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 to see if modification is embodied and where necessary request issue of mod kit through HQ Land.
  - 7.1.3 On receipt of stores request REME to modify equipment.
  - 7.1.4 Record the modification subject and EMER number in equipment documents.
- 7.2 Units authorized to carry out levels 2, 3 and 4 maintenance:
  - 7.2.1 When requested by users, or during overhaul of equipment, 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.
- 7.3 All recipients of this instruction. Add particulars to EMER Tracked Vehicles E 107/6 Mod Instr Index.

**STORES, TOOLS AND EQUIPMENT**

**Stores required**

8

- 8.1 Stores to be demanded.
  - 8.1.1 The following items are to be demanded quoting this instruction as authority for demand.
- 8.2 Stores to be removed and discarded.

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
	9ACR	2590-99-792-3609 ✓	Mod set: AFV hoist comprising of:	1
1	<del>9ACR</del>	2590-99-251-9574 ✓	AFV hoist.	(1)

Note. When demanding this Mod kit also demand item 8 9ACR/2590-99-810-6216

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
2			Left intentionally blank	
3	9ACR	2590-99-840-0473	Sling assy, kit.	(1)
4	9ACR	2590-99-810-6215	Block pivot.	(1)
5	9ACR	<sup>2590</sup> <del>2530</del> -99-616-7788	Bracket support assembly.	(1)
6	9ACR	5315-99-356-7623 ✓	Pin swivel assembly.	(1)
7	9ACR	5340-99-820-3318 ✓	Strap.	(1)
8	9ACR	<sup>2590</sup> <del>2530</del> 99 810 6216	Swivel plate assembly.	(1)
9	<del>9ACR</del>	FV 2136941 ✓	Pin assembly.	(1)
10	G1	<del>5305-99-122-5356</del>	Screw hex hd M5 x 16.	(1)
11	G1	5310-99-138-9226	Washer lock.	(1)
12	G1	5310-99-122-3032	Washer flat.	(1)
13	Z2	5340-99-735-2962	Clip cable.	(1)

**Sequence of operations****NOTE**

The item numbers in brackets are those listed in Para 8 of this instruction.

9 Carry out the modification as follows:

**Modification to the vehicle**

Refer to Fig 1

9.1 Weld block pivot (item 4) and bracket support (item 5) to the rear and front of the armoured housing, situated on left hand side of the roof, welding standards in EMER Workshop O 360.

9.2 Glue rubber pad to bracket support (item 5) using 3M Scotchgrip or equivalent, if loose in mod kit.

9.3 Make good damaged paint work.

9.4 Grease swivel pin (item 6) using XG 279 and fit to uppermost holes of the pivot block (item 4) and swivel plate (item 8). Fit washers and circlips to secure item.

9.5 Lightly smear the pin assembly with grease (item 9) and insert through the lower holes of the swivel assembly and pivot block. Secure pin in position using the attached securing pin.

9.6 Secure the strap (item 7) to the inboard side of the support bracket (item 5) using (items 10, 11 and 12).

9.7 Lightly smear the inside of the swivel assembly (item 6) with grease and step the hoist (item 1) into it, with the jib in the stowed position (facing to the rear of the vehicle), remove the lower pin (item 9) and lower the hoist into the support assembly.

- 9.8 Pass the strap (item 7) over the hoist and hook onto the securing bar on the outboard side of the support assembly and tighten the strap.

Modification to the generator

Refer to Fig 2

- 9.9 Site the generator in an area which allows access from all sides.
- 9.10 Identify the type of generator held and select corresponding diagram on Fig 2.
- 9.11 Fit four 'U' clips, over the frame tube in the positions shown.
- 9.12 Fit eight spacers to the lower positions of the 'U' clips and secure with bolts, nuts and washers in each clip position.
- 9.13 Fit two slings, one to each side of the generator frame using the remaining spacers, bolts, nuts and washers.

**WARNING**

**DANGER TO LIFE AND LIMB. ENSURE THAT THE SLINGS AND STOWAGE BANDS ARE WELL CLEAR OF THE EXHAUST SYSTEM WHEN IN THE STOWED POSITION.**

**TESTING AFTER EMBODIMENT**

10

- 10.1 Set the hoist in the operating position on the vehicle and attach to the generator by the sling.
- 10.2 Raise the generator approximately 150 mm clear of the ground and manually shake to check the 'U' clip anchorage arrangements for security.
- 10.3 When satisfied raise the generator to its stowage position on the vehicle roof.
- 10.4 Stow the generator, put the generator lifting slings in the stowed position and stow hoist.

**EFFECT ON WEIGHT**

- 11 Weight of items fitted: 40 kg.

**PUBLICATION AMENDMENTS**

**NOTE**

Necessary amendments will be issued separately.

- 12 Nil.

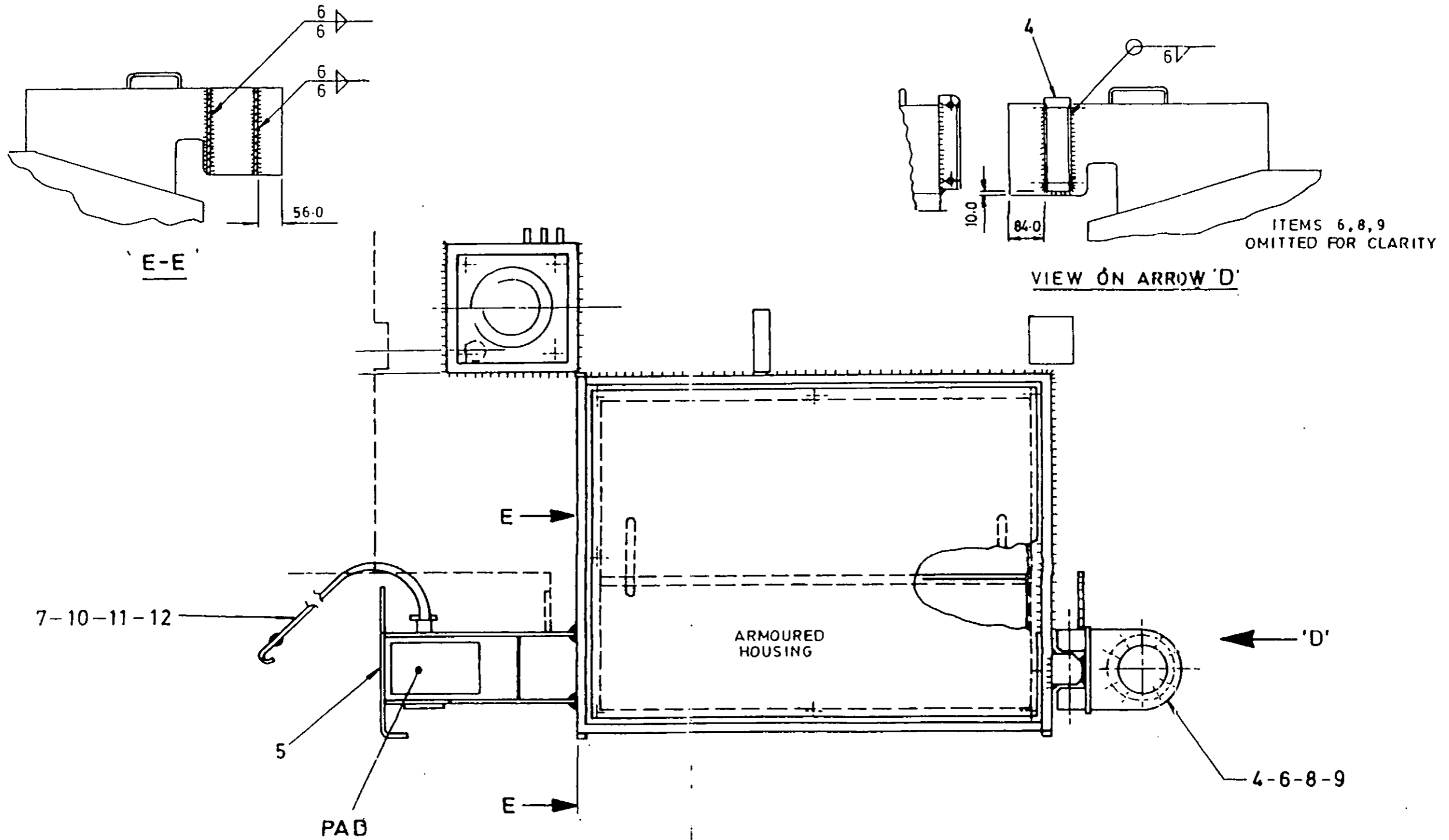
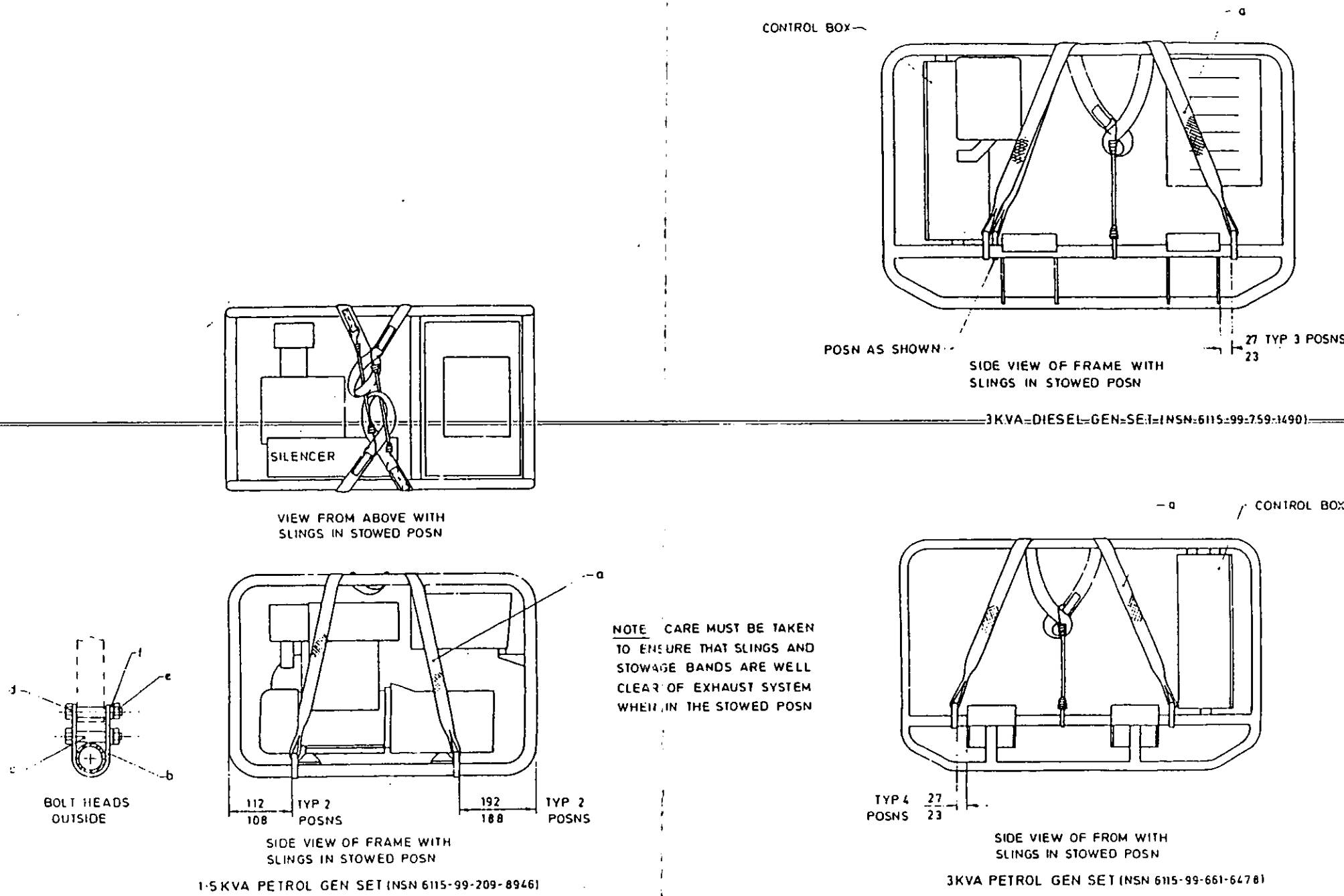


Fig 1 Location of brackets



Item No.	Part No.	Designation	Qty
	FV 2135964	Set kit, lifting accessories comprising:	1 2590 99 840 0473
a	FV 2135966	Sling	(2) 3940 99 382 5106
b	FV 2135967	'U' clip	(4) 5340 99 124 7918
c	FV 2135968	Spacer	(8)
d	5306-99-122-5246	Bolt, hex hd M6 x 40 mm lg	(8)
e	5310-99-122-5295	Nut, M6	(8)
f	5310-99-137-9237	Washer, lock M6	(8)

Fig 2 Assembly of lifting kit on 1.5 kW petrol, 3 kW petrol and 3 kW diesel generator sets

V8612/2

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**CARRIER, ARMoured, STAFF VEHICLE, FULL TRACKED**

**FV 436 (ASV/BATES)**

**TECHNICAL HANDBOOK – MODIFICATION INSTRUCTION**

**SUBJECT: 2 Kg Dry Powder Fire Extinguisher**

(MAE 43/0/0013)

**INTRODUCTION**

1 This instruction details additional external fittings for the Amerex fire extinguisher which replaces the BCF type.

1.1 Limitations on use of equipment. Nil

**APPLICABILITY**

2

2.1 Front plate upper and rear door of vehicles (Code No 0754-3000, 0755-3000) held by user units.

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

**REASON FOR MODIFICATION**

3 Code 1 – to improve safety.

**PRIORITY**

4 Immediate.

**ESTIMATED TIME REQUIRED**

5 Embodiment: 1.5 man-hours.

## MODIFICATION IMPLEMENTATION PLAN

6

- 6.1 This modification is to be implemented by units authorised to carry out Unit, Field and Base repairs.
- 6.2 Associated modification instructions. Nil
- 6.3 Modification plate strike action: N/A

### Action required by

7

- 7.1 Units and establishments holding equipment.
  - 7.1.1 Examine equipment to see if modification is embodied and where necessary demand the stores required.
  - 7.1.2 On receipt of stores, request REME to modify equipment.
  - 7.1.3 Record the modification Subject and EMER Number in equipment documents.
- 7.2 Units authorised to carry out Unit, Field or Base repairs.
  - 7.2.1 When requested by users or during overhaul, obtain the modification sets and local stores items listed in Para 8 and carry out this modification instruction.
  - 7.2.2 Record completion details of modification against appropriate entry in equipment documents.
- 7.3 All recipients of this instruction. Add particulars to EMER Tracked Vehicles E 107/6 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 at all levels of technical storage.

## NOTE

These Pages 3 to 6, Issue 2 supersede Pages 3 to 6, Issue 1 dated Jan 94. Text and figures have been amended.

Item No	DMC	NSN/Part No	Designation	Qty per eqpt
	9ACR	2540-99-876-0078 (FV 952588)	Mod Set: External Fire Extinguisher Replacement Scheme comprising:	1
1	9ACR	4210-99-441-4701 (FV 952591)	Mounting plate rear door	(1)
2	9ACR	4210-99-736-3532 (FV 952586)	Mounting plate front glaxis l.h.	(1)
3	G1	5305-99-122-5360	Screw hex hd M6 x 16 mm lg	(11)
4	G1	5305-99-941-9918	Screw c/sk hd 2BA x 3/8 in. lg	(6)
5	G1	5305-99-122-5361	Screw hex hd M6 x 20 mm lg	(6)
6	G1	5306-99-122-2792	Bolt hex hd M12 x 70 mm lg	(2)
7	G1	5310-99-101-3428	Washer shakeproof c/sk	(6)
8	G1	5310-99-137-9232	Washer s/coil lock M6	(17)
9	G1	5310-99-138-9229	Washer s/coil lock M12	(2)
10	G1	5310-99-122-5295	Nut plain hex M6	(17)
11	G1	5310-99-122-5298	Nut plain hex M12	(2)
8.2	<u>Stores to be manufactured.</u>			
12		FV 2200586	Spacer	2
8.3	<u>Stores to be removed and discarded.</u>			
13	G1	5306-99-941-0343	Bolt hex hd UNF 1/2 in. x 2 in. lg	2
14	G1	5310-99-941-0917	Nut plain hex UNF 1/2 in.	2
15	G1	5310-99-941-6658	Washer lock s/coil lock 1/2 in.	2



### Sequence of operations

#### NOTE

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

#### 9 Carry out this instruction as follows:

Refer to Fig 1 and 2 to fit brackets (items 1 to 12 inclusive) as detailed.

9.1 Remove existing extinguishers and brackets from rear door (2 off) and front plate upper (1 off). Return extinguishers to stores, to be used for replacement of internal hand extinguishers.

9.2 Attach fire extinguishers brackets (6MT1/4210-99-839-9904) to mounting plate (item 2) using screws, washers and nuts (items 5, 8 and 10).

#### NOTE

See Fig 1 for manufacture details of spacer (item 12).

9.3 Remove bolts, nuts and washers (items 13, 14 and 15) from smoke discharger (Fig 1), and attach mounting plate and spacers (items 2 and 12) to smoke discharger brackets using bolts, washers and nuts (items 6, 9 and 11).

9.4 Attach fire extinguisher brackets (6MT1/4210-99-839-9904) to mounting plate (item 1) see Fig 2, using screws, washers and nuts (items 3, 8 and 10) and weld on nuts.

9.5 After welding on nuts remove fire extinguisher brackets from mounting plate (item 1).

9.6 Repair paint, finish to DTD5555 and Def Stan 03-32.

9.7 Attach mounting plate (item 1) to existing tapped pads in rear door using screws and washers (items 4 and 7).

9.8 Attach fire extinguisher brackets (6MT1/4210-99-839-9904) to mounting plate (item 1) using (items 3, 8 and 10).

9.9 Clip on fire extinguishers Qty 3 (6MT1/4210-99-839-9905).

#### Testing after embodiment

10 Nil.

#### EFFECT ON WEIGHT

11 Negligible.

#### PUBLICATION AMENDMENTS

#### NOTE

Necessary amendments will be issued separately.

12 Army Code No 14693 User Handbook.

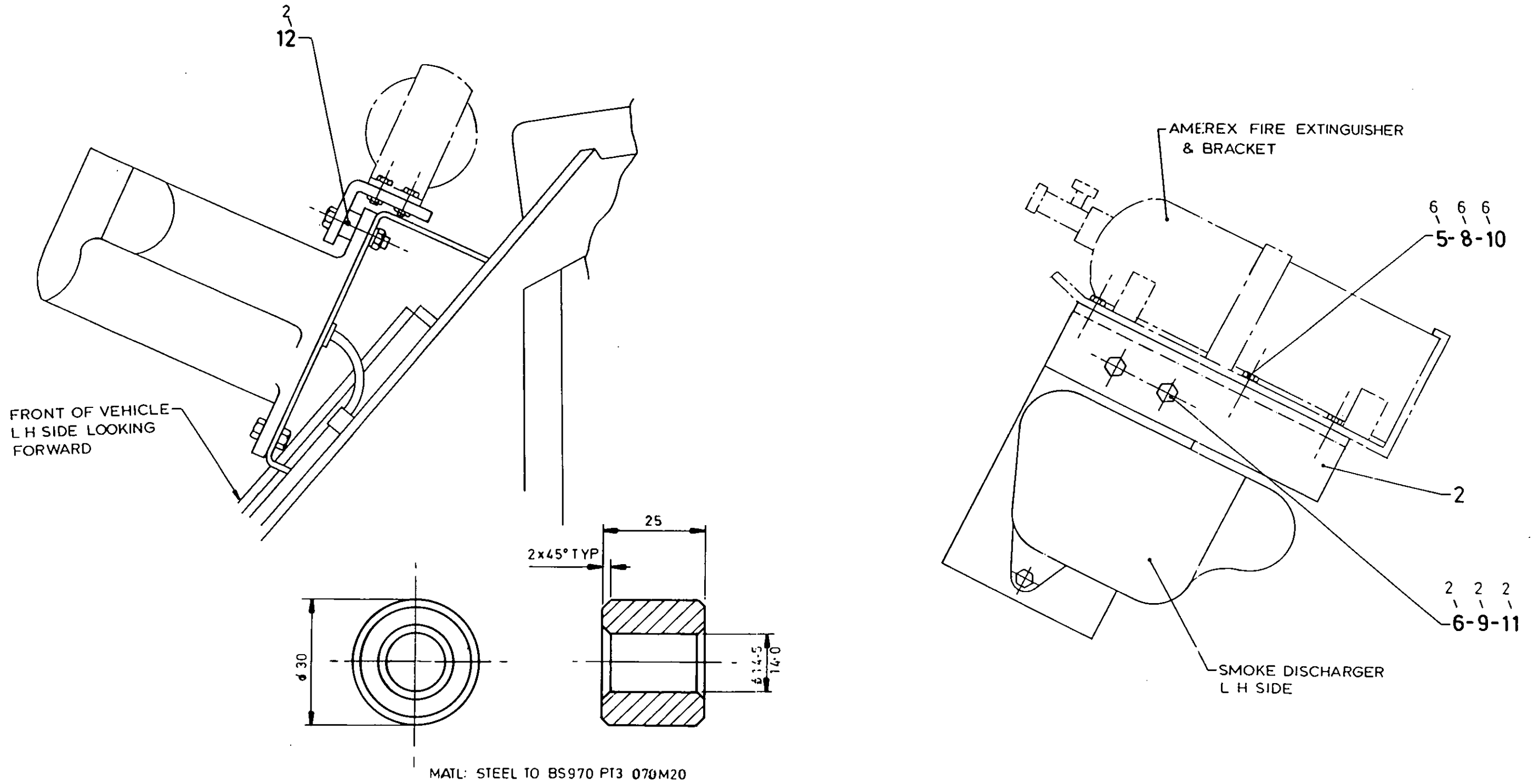


Fig 1 Fire extinguisher mounting front

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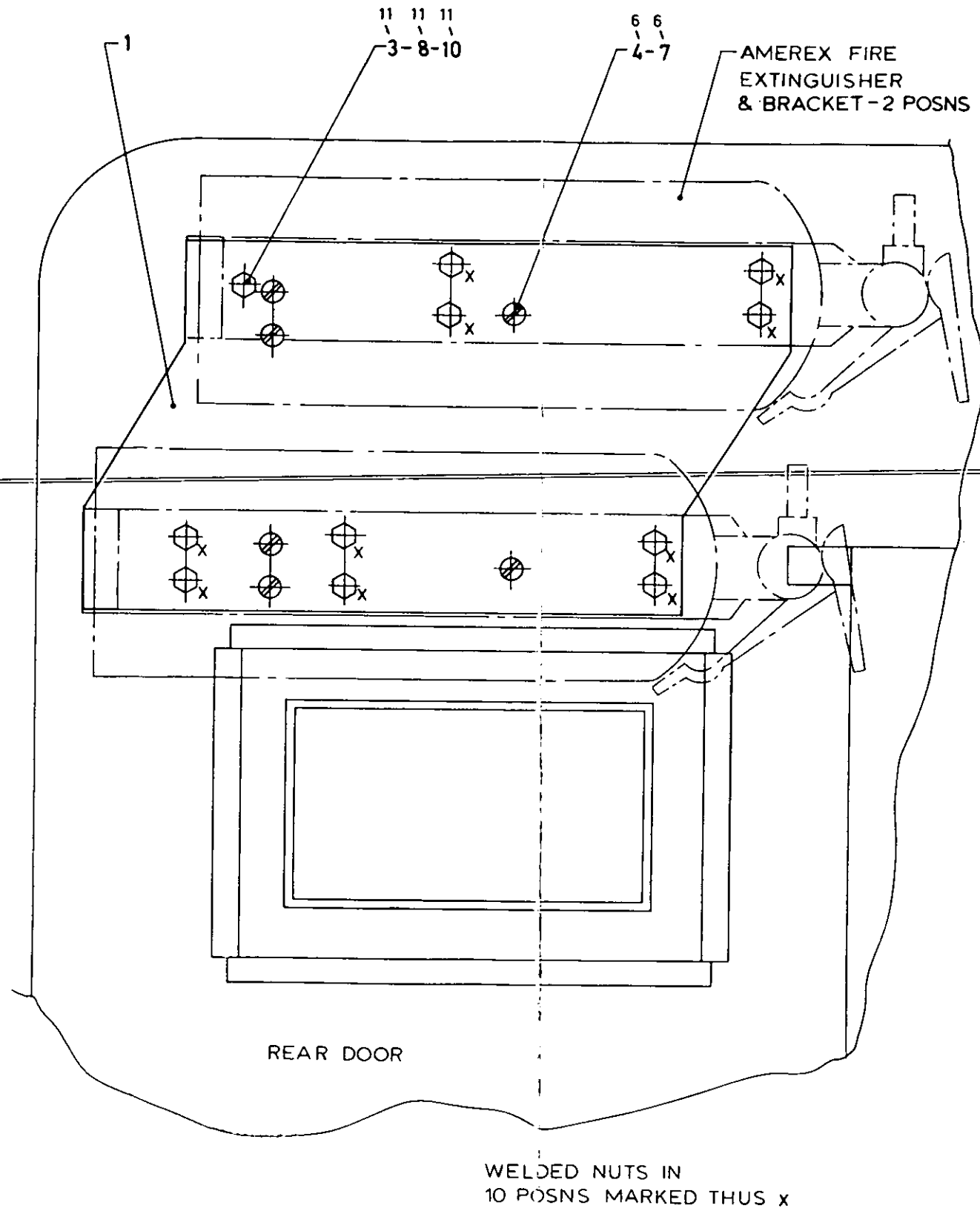


Fig 2 Fire extinguisher rear door

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**CARRIER ARMoured, STAFF VEHICLE, FULL TRACKED, FV 436**

**TECHNICAL HANDBOOK - MODIFICATION INSTRUCTION**

**SUBJECT: Amber Rotating Beacon**

(Approval No. 43/6/0004)

**INTRODUCTION**

1 This instruction details the fitment of an amber rotating beacon to warn other road users of a slow moving vehicle.

**APPLICABILITY**

2

2.1 Carrier, Armoured, Staff Vehicle, FV436.

2.2 Unmodified stock held at all levels of technical storage.

**REASON FOR MODIFICATION**

3 Code 1 - to improve safety.

**PRIORITY**

4 Immediate.

**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 levels 2, 3 and 4 maintenance.

**Action required by:**

72212(75)  
ATSA Chertsey

9707/WCP-2401  
Jan 98, Issue 2 (24N)

7

7.1 Units and establishments holding equipment:

7.1.1 Examine documents to see if modification is applicable.

7.1.2 Examine equipment or modification record plate to see if modification is embodied.

7.1.3 Record the modification subject and EMER number in equipment documents.

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

7.2.1 When requested by users or during overhaul of equipment, 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.

7.3 All recipients of this instruction. Add particulars to EMER E 107/6 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.

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

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
	9ACR	2540-99-319-8607	Mod set comprising:	1
1	6MT3	<del>220-49-838-5677</del> FV 2200650	Beacon amber rotating. clw pole	(1)
2		<del>254099 127 3008</del> FV 2200644	Base assy rotating.	(1)
3		<del>2540-99-942-0427</del> FV 2200642	Harness ext lead.	(1)
4		FV 2200660	Plate assy.	(1)
5		FV 2200653	Socket beacon rotating.	(1)
6				
7	6MT4	5340-99-838-1364	Tie cable releasable.	(8)
8	G1	5306-99-122-8103	Screw hex hd M8 x 35 mm lg zp.	(4)
9			Bolt hex hd 3/8 UNF x 1 1/4 in. lg zp.	(3)
10		5310-99-138-7965	Washer plain M8 large o.d.	(4)

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
11			Washer plain 3/8 in. dia	(3)
12		5310-99-138-9227	Washer spring s/coil M8.	(4)
13			Washer spring s/coil 3/8 in. dia	(3)
8.2 <u>Stores or suitable equivalent to be obtained locally.</u>				
14	G1	5305-99-122-5273	Screw machine, flat, c/sk, slotted hd, M3 x 12.	4
15	G1	5310-99-135-0754	Nut, plain, hex, M3.	4
16	G1	5310-99-138-9224	Washer lock, M3.	4
17	G1	5305-99-135-0424	Screw machine, pan hd, M4 x 16.mm	1
18	G1	5310-99-135-0755	Nut plain, hex, M4.	1
19	G1	5310-99-138-9225	Washer lock, M4.	1
20	G1	5310-99- <del>289-2084</del> <sup>396-0691</sup>	Washer flat, M4.	1
21	G1	5310-99-139-5252	Pin 6 mm	1
22	6MT4	5340-99-801-4092	Sealing cone Lucas No 806445.	1

8.3 Stores to be manufactured locally:

23			Boss	3
----	--	--	------	---

8.4 Stores to be discarded:

24	6MT4	5340-99-881-2217	Sealing cone (FV(S) 6/83/1)	1
----	------	------------------	-----------------------------	---

8.5 Items/stores to be modified.

25		FV560655	Lamp support	1
----	--	----------	--------------	---

8.6 Stores to be removed and retained. All units that have a beacon fitted that is not Design Authority (DA) approved should remove the beacon and fit the approved modification, retaining locally all those parts that are compatible for use as spares.

**Sequence of operations**

9 Carry out the modification as follows:

**NOTE**

The item numbers quoted in brackets refer to those listed in Para 8 of this instruction.

Refer to Fig 1 and 2

9.1 Remove right hand rear, lamp support (item 25).

9.2 Disconnect and remove turn and rear light clusters.

- 9.3 Mark out and drill holes in lamp support, to accept socket assembly (item 5).
- 9.4 Repair paint finish to Def Stan 03-02.
- 9.5 Fit socket assembly, to lamp support using (items 14, 15 and 16).
- 9.6 Attach socket blanking cap to lamp support using (items 17, 18, 19 and 20).
- 9.7 Replace existing sealing cone (item 24) with (item 22) in the rear light assembly.
- 9.8 Refit and rewire rear light incorporating new cables from socket assy.
- 9.9 Reassemble lights and refit to vehicle.

Refer to Fig 3, 4 and 5

- 9.10 Manufacture bosses (item 23) as diagram and weld in position.
- 9.11 Bolt beacon base (item 2) onto plate (item 4), using (items 8, 10 and 12).
- 9.12 Fit roll pin (item 21) into the hole bored in the spigot on the beacon base (item 2).
- 9.13 Bolt plate assy (item 4) in position using (items 9, 11 and 13).
- 9.14 Fit and secure cable (item 3) with straps (item 7) as shown.
- 9.15 Fit amber beacon (item 1) and connect cable (item 3).

#### TESTING AFTER EMBODIMENT

- 10 Switch on lights and check that amber beacon is operating correctly.

#### EFFECT ON WEIGHT

- 11 Negligible.

#### PUBLICATION AMENDMENTS

#### NOTE

Necessary amendments will be issued separately.

- 12 Nil.

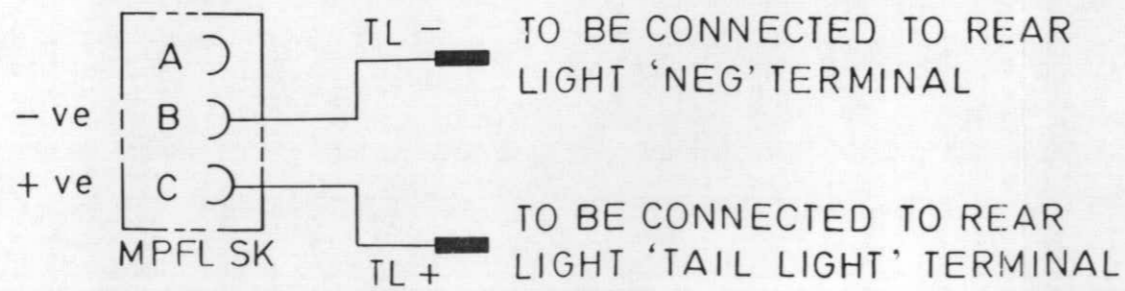
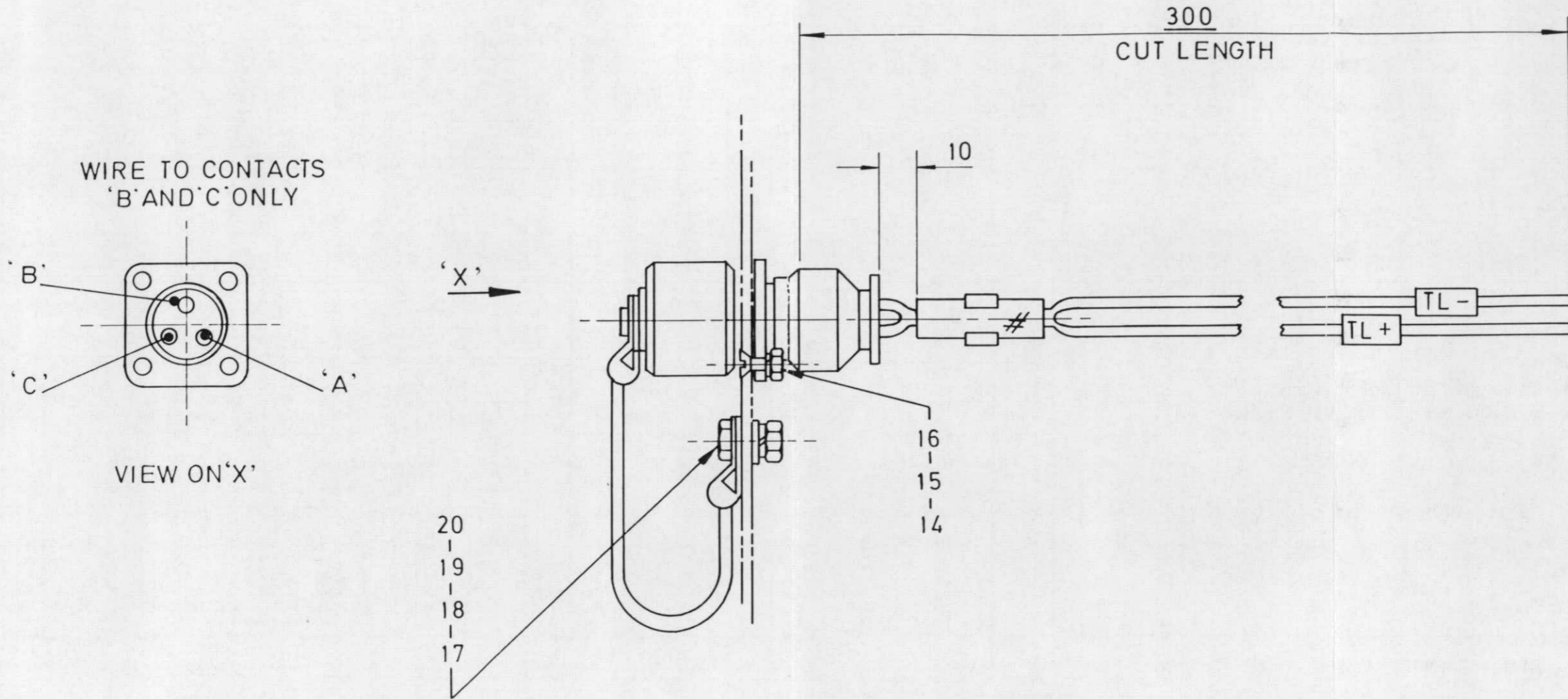


Fig 1 Socket assy



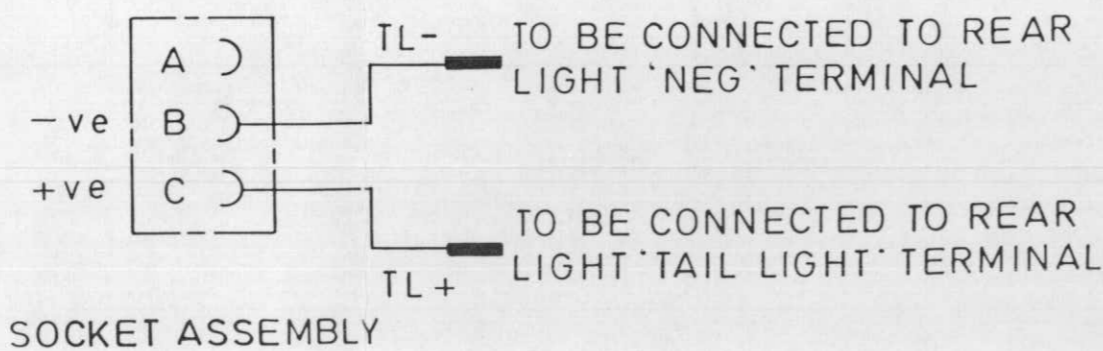
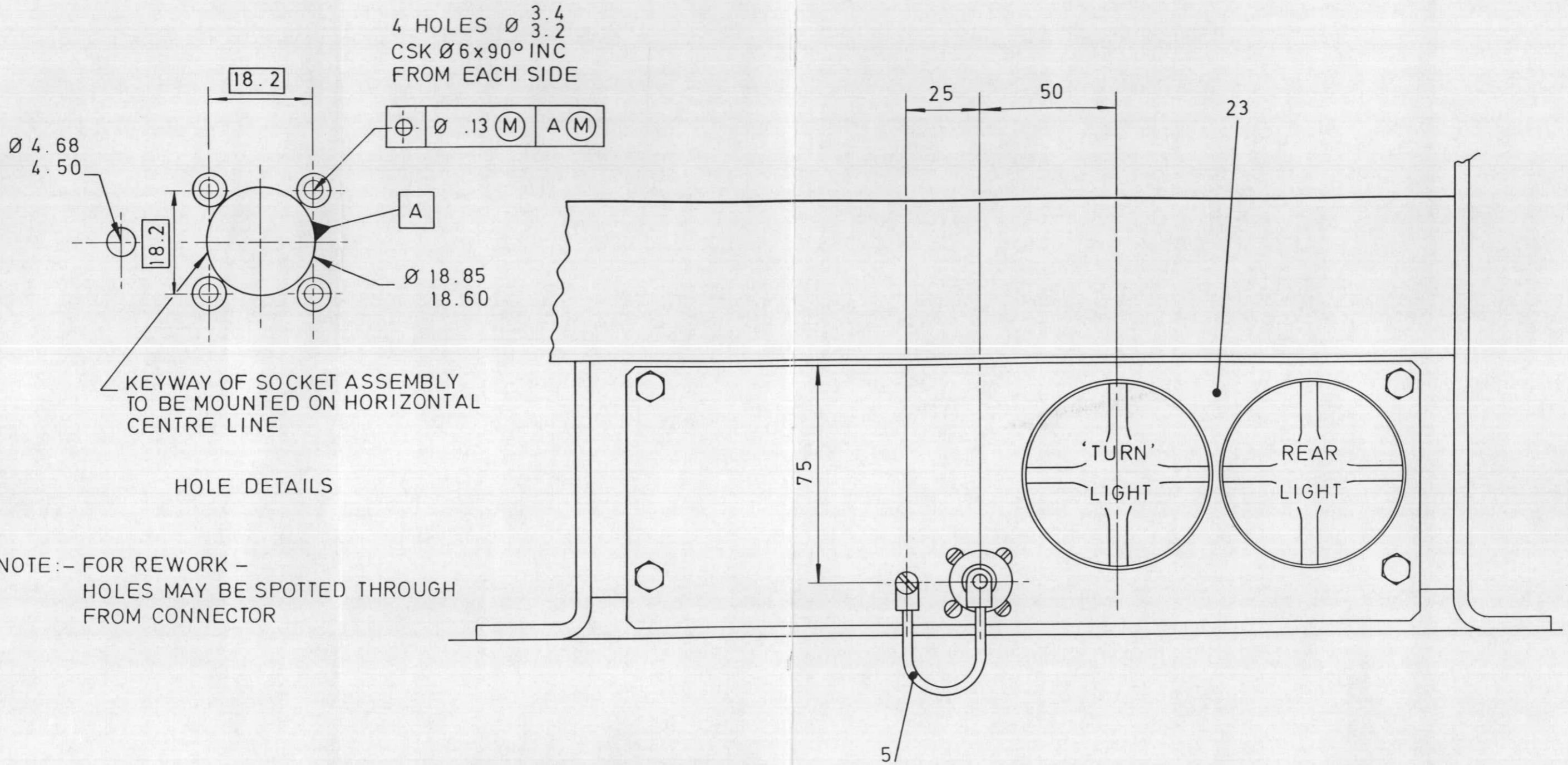


Fig 2 Rear light

V13883/2

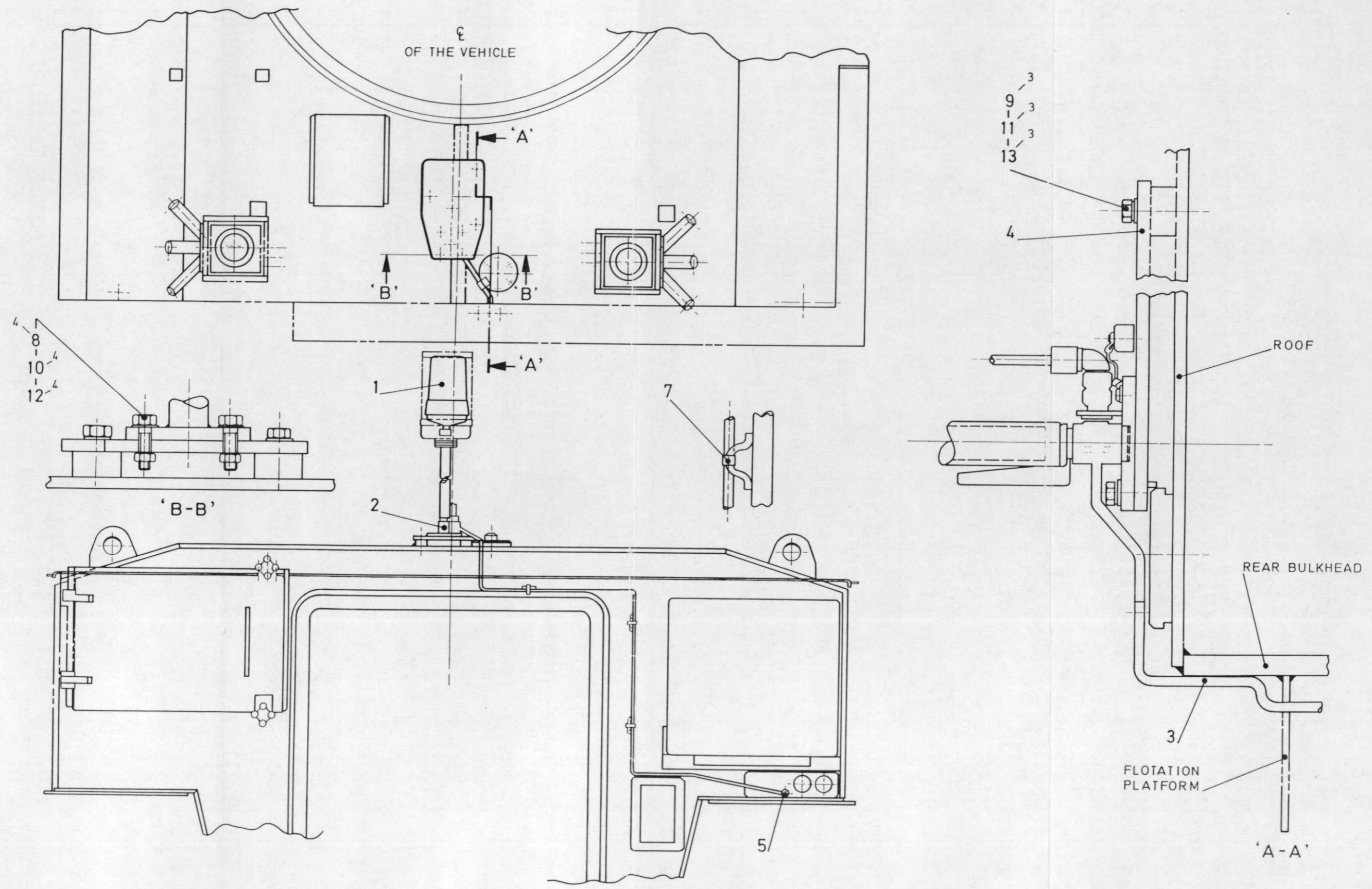


Fig 3 Location of amber beacon

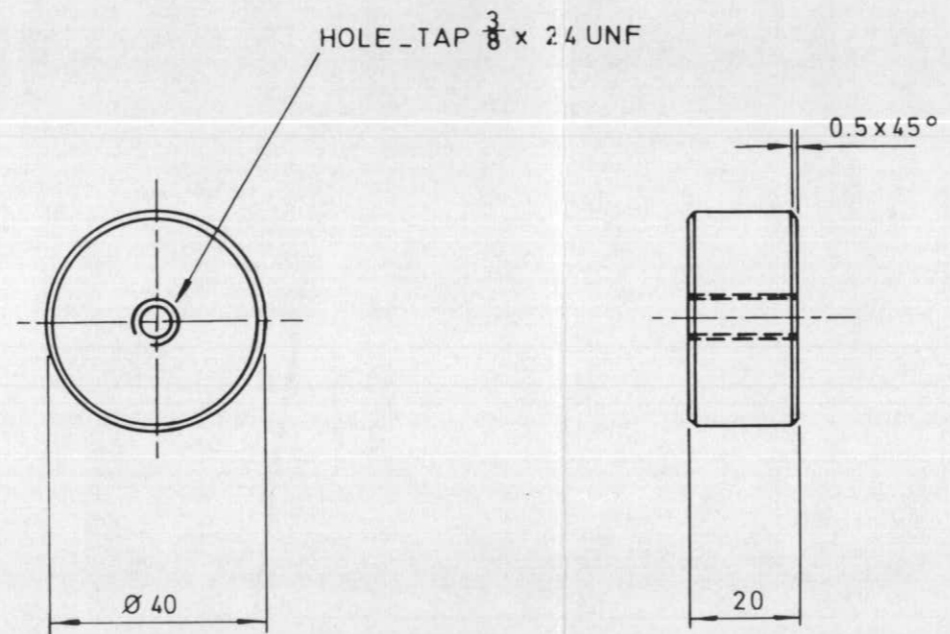
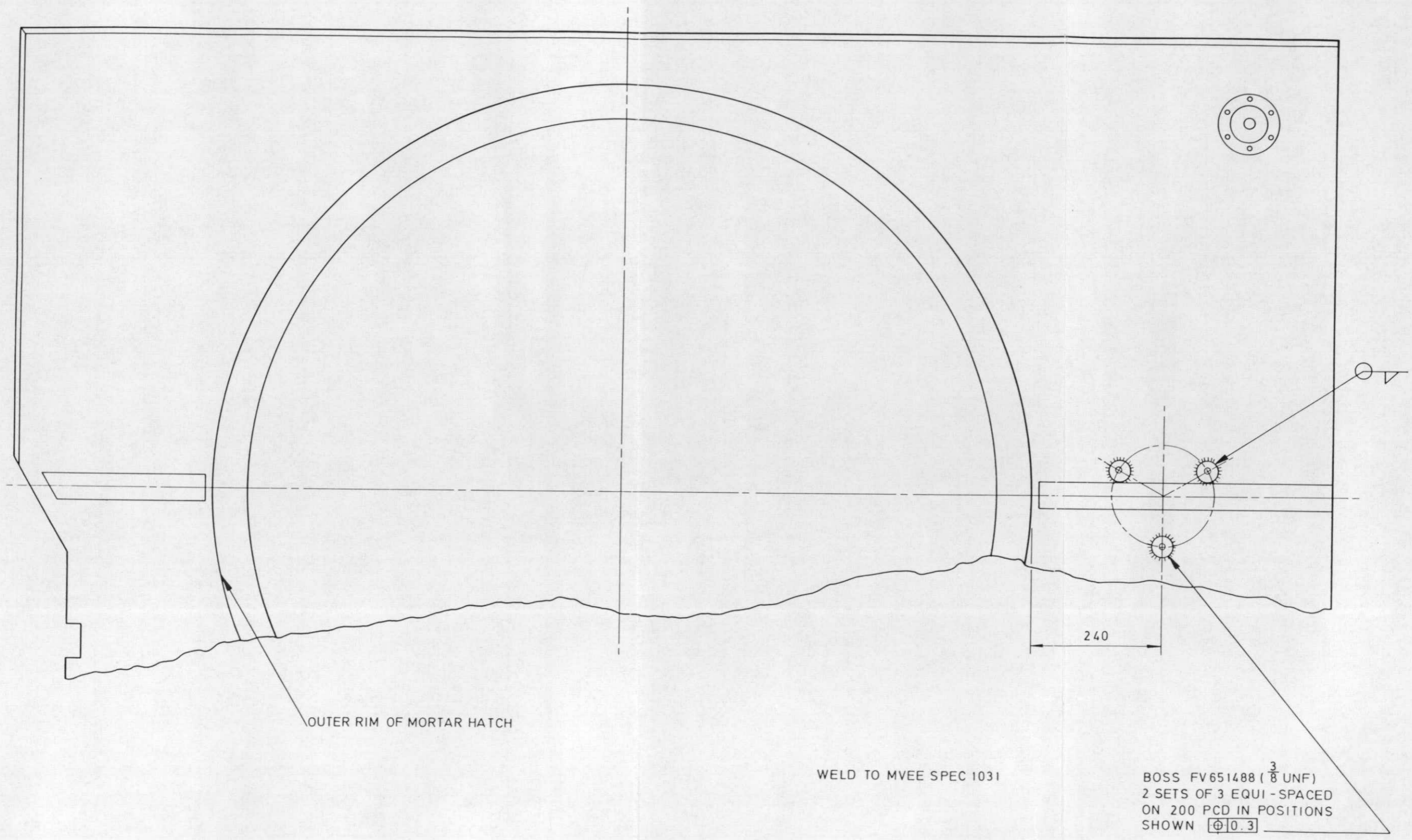


Fig 4 Boss dimensions

V6005/7



REAR ROOF PLATE

Fig 5 Position of bosses

V6005/2

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**CARRIER, ARMoured, STAFF VEHICLE, FULL TRACKED  
FV 436, MK 2 AND 2/1**

**TECHNICAL HANDBOOK - MODIFICATION INSTRUCTION**

**SUBJECT: Driver and commander's SA80 stowage.**

(MAE 43/6/0002)

**INTRODUCTION**

1 This instruction details the internal fittings for the stowage of the SA80:

1.1 Limitations on use of equipment. Nil.

**APPLICABILITY**

2

2.1 FV 436 held by user unit.

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

**REASON FOR MODIFICATION**

3 Code 1 - to improve safety.

**PRIORITY**

4 Immediate.

**ESTIMATED TIME REQUIRED**

5 Embodiment: 1 1/2 man-hours.

## MODIFICATION IMPLEMENTATION PLAN

6

6.1 This modification is to be implemented by units authorized to carry out Unit, Field or Base repairs.

6.2 Associated modification instructions: Nil.

6.3 Modification strike plate action: N/A.

### Action required by:

7

#### 7.1 Units and establishments holding equipment:

7.1.1 Examine equipment to see if modification is embodied and where necessary demand the stores required.

7.1.2 On receipt of stores request REME to modify equipment.

7.1.3 Record the modification Subject and EMER Number in equipment documents.

#### 7.2 Units authorized to carry out Unit, Field or Base repairs:

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

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

7.3 All recipients of this instruction. Add particulars to EMER Tracked Vehicles E 107/6 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.

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

8.1.3 Registration number of vehicle for unmodified stock held at all levels of technical storage.

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
1	9ACR	5340-99-839-8252 (FV 952575)	Bracket mounting	1
2	9ACR	5340-99-839-8251 (FV 952574)	Bracket mounting	1
8.2 <u>Stores to be obtained locally:</u>				
3	6MT1	2540-99-740-7338 (FV 952299)	Barrel clip assy	2
4	6MT1	2540-99-724-5832 (FV 952327)	Butt clip	2
5	G1	5305-99-122-5360	Screw hex hd M6 x 16 mm lg	4
6	G1	5305-99-122-5366	Screw hex hd M8 x 20 mm lg	11
7	G1	5305-99-135-0451	Screw pan hd M8 x 20 mm lg	1
8	G1	5310-99-137-9232	Washer s/coil lock M6	4
9	G1	5310-99-138-9227	Washer s/coil lock M8	12
10	G1	5310-99-122-5295	Nut plain hex M6	4
11	G1	5310-99-122-5296	Nut plain hex M8	12
12	G1	5310-99-122-6475	Washer flat M8	6
8.3 <u>Stores to be modified:</u>				
13	9ACR	2510-99-867-4629 (FV 559953)	Cover assy (lower)	1

**WARNING**

**ASBESTOS. DUE TO THE POSSIBILITY OF ASBESTOS ON THE INTERNAL SURFACE (ENGINE SIDE) OF COVER FV 559953. PROTECTIVE CLOTHING MUST BE WORN, ESPECIALLY GLOVES AND FACE MASK WHEN DRILLING AND HANDLING DURING THE MODIFICATION.**

**Sequence of operations****NOTE**

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

**9 Carry out the modification as follows:**

Refer to Fig 1 and 2

9.1 Remove engine cover (FV 559953) mark out and drill holes in cover refer to Fig 1.

9.2 Attach barrel and butt clips (items 3 and 4) to brackets (items 1 and 2) using (items 5, 6, 8, 9, 10, 11 and 12) see Fig 2 for location and quantity required.

9.3 Attach brackets (items 1 and 2) to engine cover using (items 6, 7, 9 and 11) see Fig 2 for location and quantity required.

**TESTING AFTER EMBODIMENT**

10 Nil.

**EFFECT ON WEIGHT**

11 Negligible.

**PUBLICATION AMENDMENTS**

**NOTE**

Necessary amendments will be issued separately.

12 Nil.



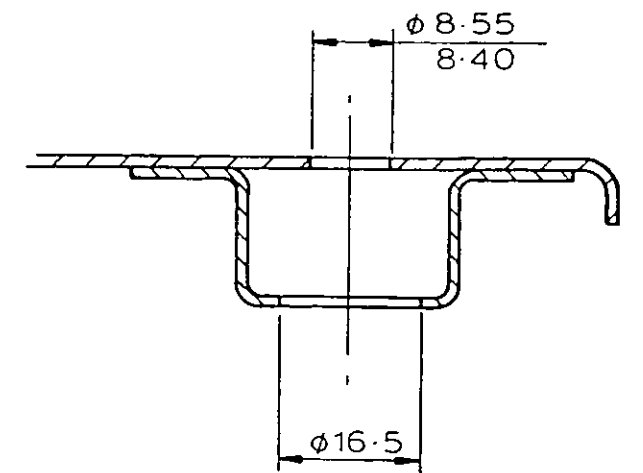
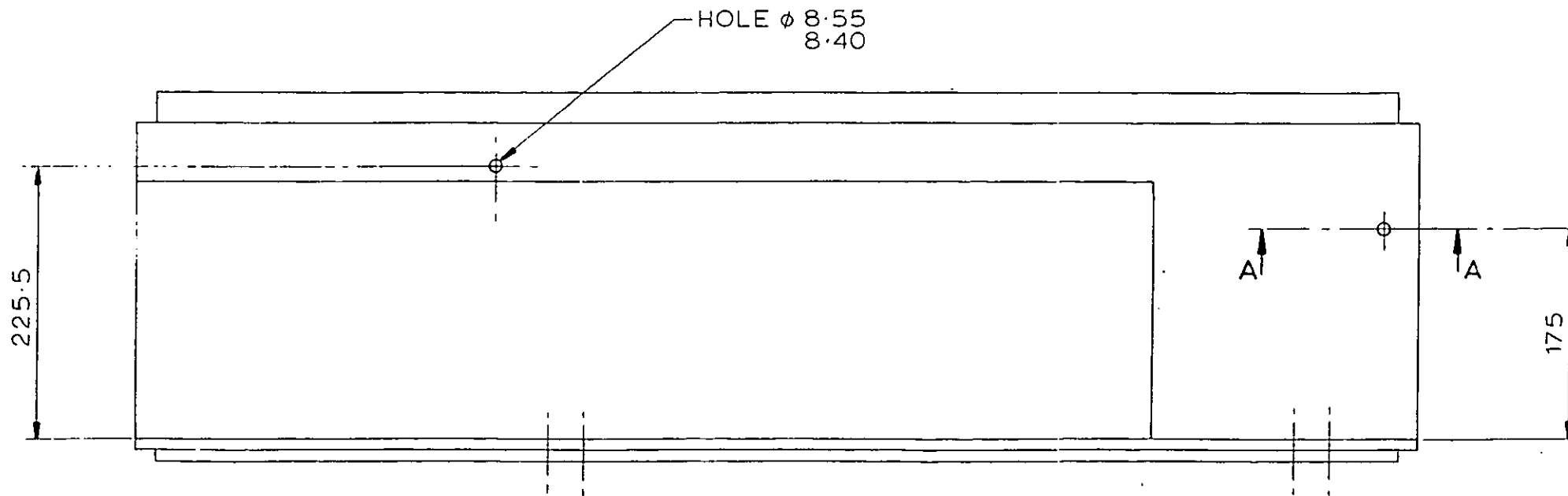
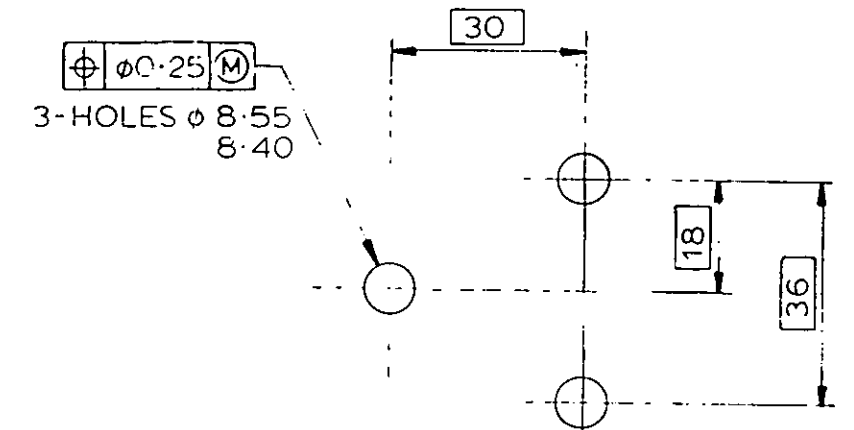
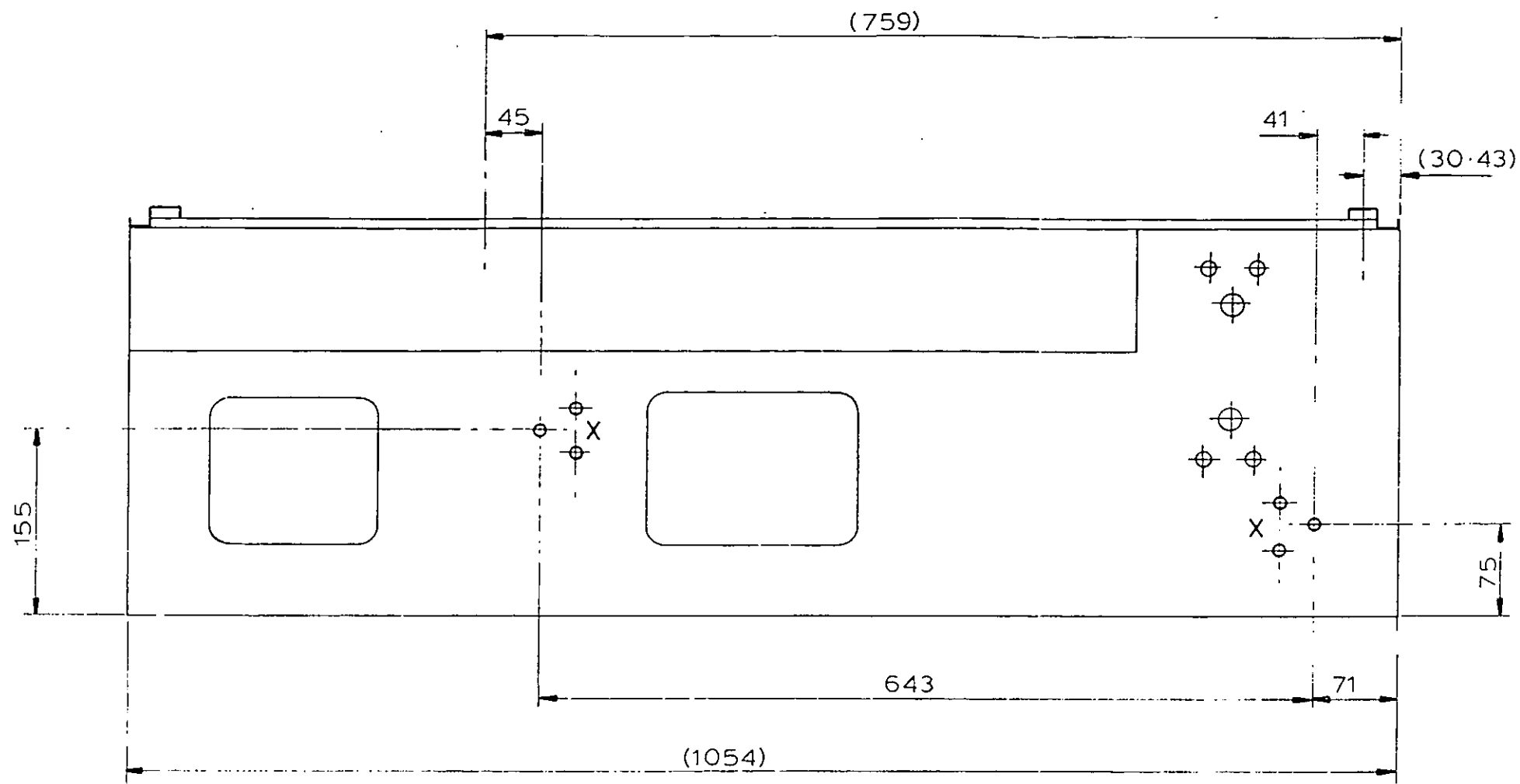


Fig 1 Engine cover (FV 559953)

V12891/1

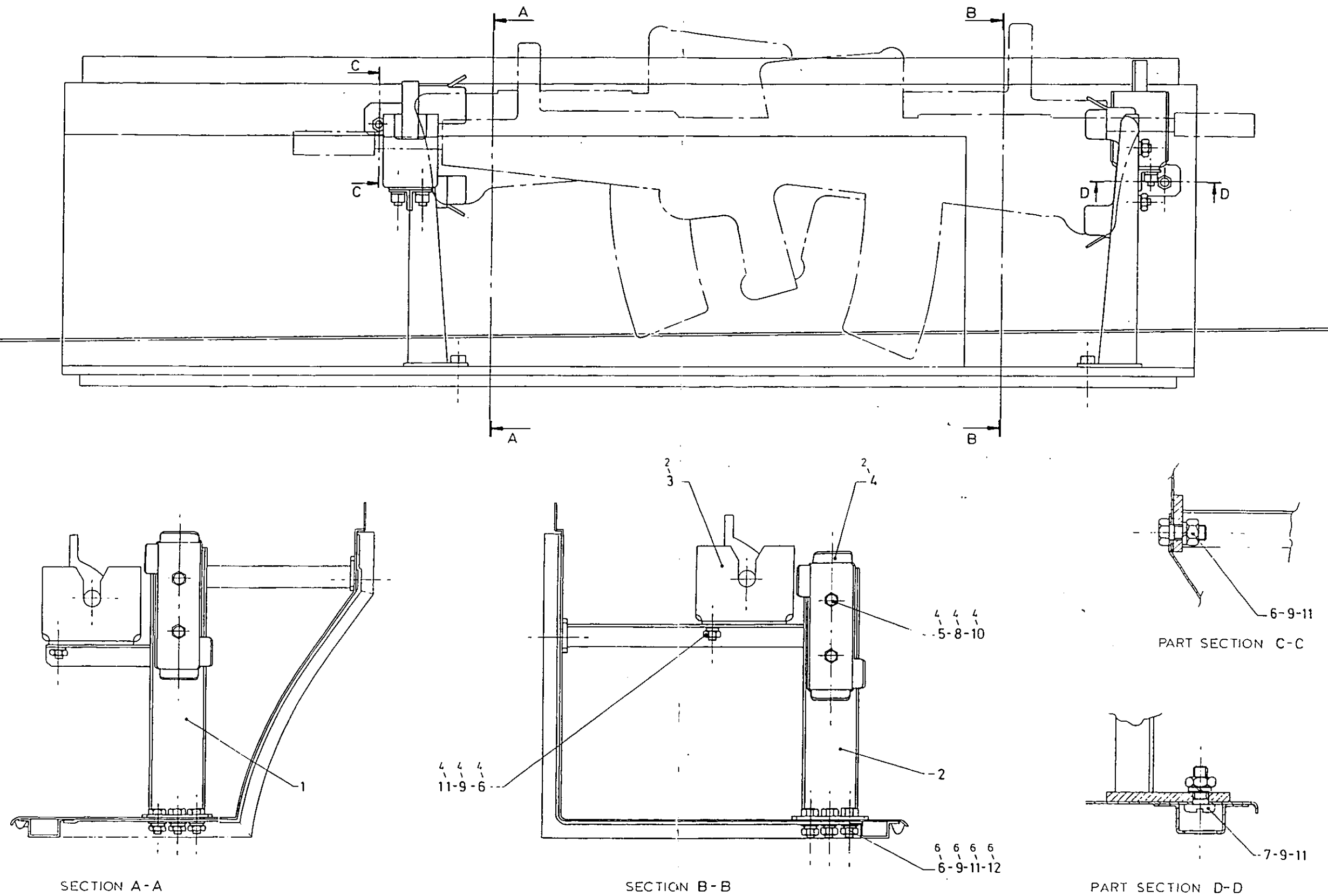


Fig 2 General arrangement of brackets and clips

V12891/2

CONDITIONS OF RELEASE

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**CARRIER, ARMOURED, STAFF VEHICLE, FULL TRACKED FV 436**

**TECHNICAL HANDBOOK - MODIFICATION INSTRUCTION**

**SUBJECT: Crew SA 80 stowage.**

(MAE 43/6/0006)

**INTRODUCTION**

- 1 This instruction details the internal fittings for the stowage of the SA 80.

**APPLICABILITY**

2

- 2.1 Fitted to subject equipment held by user units.  
2.2 Unmodified stock, held at all levels of technical storage.

**REASON FOR MODIFICATION**

- 3 Code 1 - to improve safety.

**PRIORITY**

- 4 Immediate.

**ESTIMATED TIME REQUIRED**

- 5 Embodiment: man-hours.

72112(120)  
ATSA Chertsey

9708\WMP2101  
Dec 98, Issue 1 (24N)

## MODIFICATION IMPLEMENTATION PLAN

6

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

6.2 Associated modification instructions: E 107/6 No. 5..

### Action required by:

7

#### 7.1 Units and establishments holding equipment:

7.1.1 Examine documents to see if modification is applicable.

7.1.2 Examine equipment or modification record plate to see if modification is embodied.

7.1.3 Record the modification subject and EMER number in equipment documents.

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

7.2.1 When requested by users or during overhaul of equipment, 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.

7.3 All recipients of this instruction. Add particulars to EMER E 107/6 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.

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
1	9ACR	2540-99-432-7452 (FV 2200667)	Base assembly stowage	1
2	9ACR	2540-99-008-1193 (FV 2200668)	Base assembly stowage	1
3	6MT1	2540-99-740-7338	Barrel clip assy	2
4	6MT1	2540-99-724-5832	Butt clip	2
5	G1	5305-99-122-5362	Screw hex hd M6 x 25 lg	4
6		5305-99-135-0451	Screw hex hd M8 x 20 lg	4
7		5305-99-941-0699	Screw hex hd 5/16 in. UNF x 7/8 in. lg	11

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
8		5310-99-122-6474	Washer flat M6	16
9		5310-99-122-6475	Washer plain M8	4
10		5310-99-945-9071	Washer plain 5/16 in.	11
11		5310-99-137-9232	Washer spring M6	4
12		5310-99-138-9227	Washer spring M8	4
13		5310-99-941-6655	Washer spring 5/16 in.	11

**Sequence of operations****NOTE**

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

**9 Carry out the modification as follows:**

Refer to Fig 1

9.1 Assemble the barrel holders (item 3) using the fasteners (items 6, 9 and 12) to the base plate (item 2).

9.2 Fit the assembly to the rear door using fasteners (items 7, 10 and 13) as shown in Fig 1.

9.3 Remove first aid container from rear door.

9.4 Fit the base plate (item 1) to the rear door using fasteners (items 7, 10, and 13).

9.5 Assemble the butt holders (item 4) using the fasteners (items 5, 8 and 11) to the base plate, adjusting the position by using the washers (item 8) as shims, to achieve the best fit for the rifles.

9.6 Fit the first aid holder using fasteners (items 7, 10 and 13) to the base plate (item 1).

**TESTING AFTER EMBODIMENT**

10 Nil.

**EFFECT ON WEIGHT**

11 Negligible.

**PUBLICATION AMENDMENTS**

12 Necessary amendments will be issued separately.

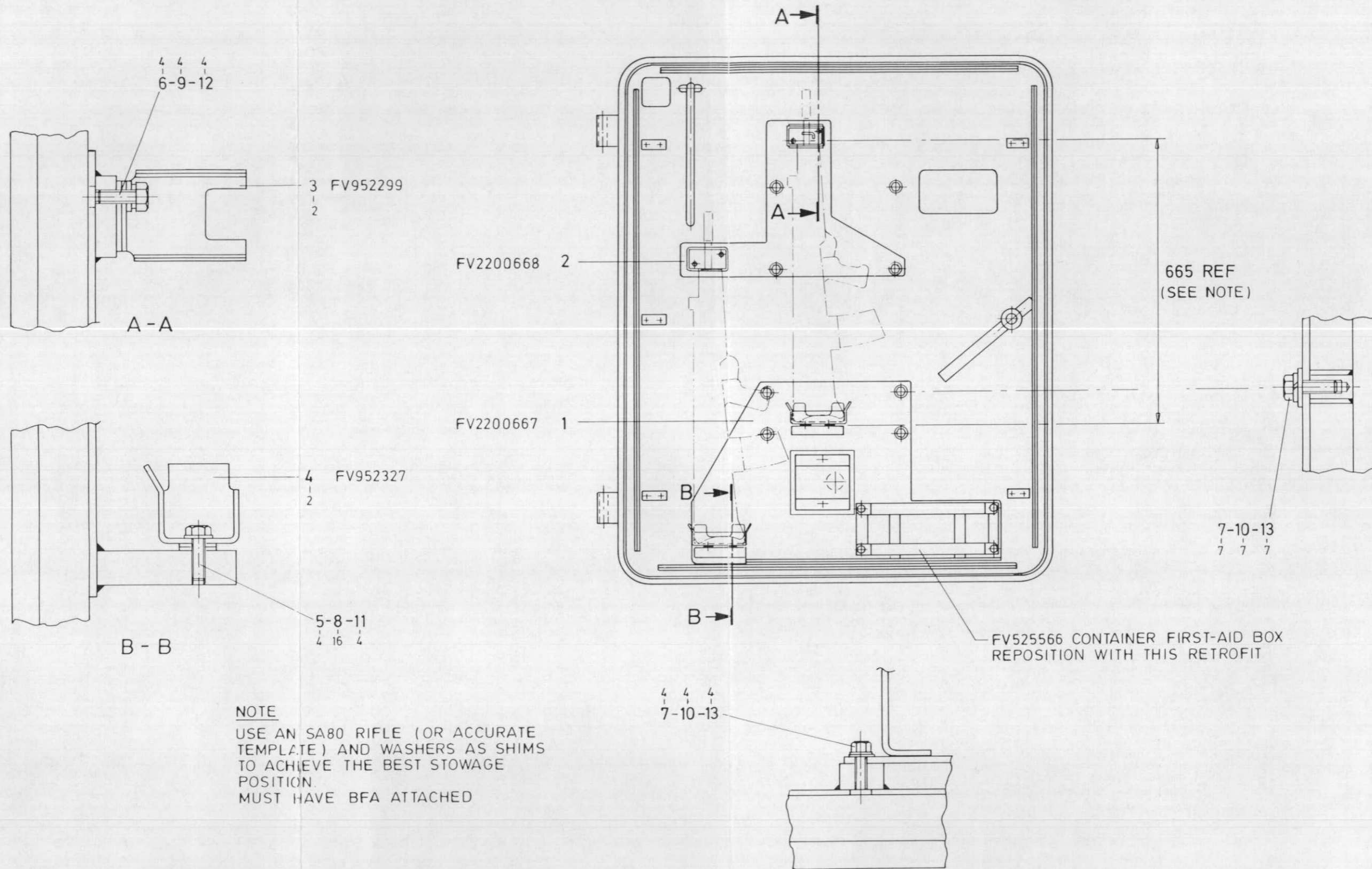


Fig 1 SA80 Rear door stowage

V13954/1

**CARRIER, ARMoured, STAFF VEHICLE, FULL TRACKED, FV436 (ASV/BATES)**

**MODIFICATION INSTRUCTION NO. 2**

Sponsor:  
DGES(L)

Publication Agency:  
DLO Chertsey  
Project No: S01008(344)  
File ref:

**AMENDMENT RECORD**

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

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

**SUBJECT: Fuel tank filter**  
(Approval No. 43/0/0046)

**INTRODUCTION**

1 This instruction introduces the installation of a fuel strainer element to the fuel tank filler cap to reduce fuel contamination.

1.1 Limitations on use of equipment. Nil.

**APPLICABILITY**

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

**REASON FOR MODIFICATION**

3 Code 4 - to improve maintainability.

**PRIORITY**

4 Routine.

**ESTIMATED TIME REQUIRED**

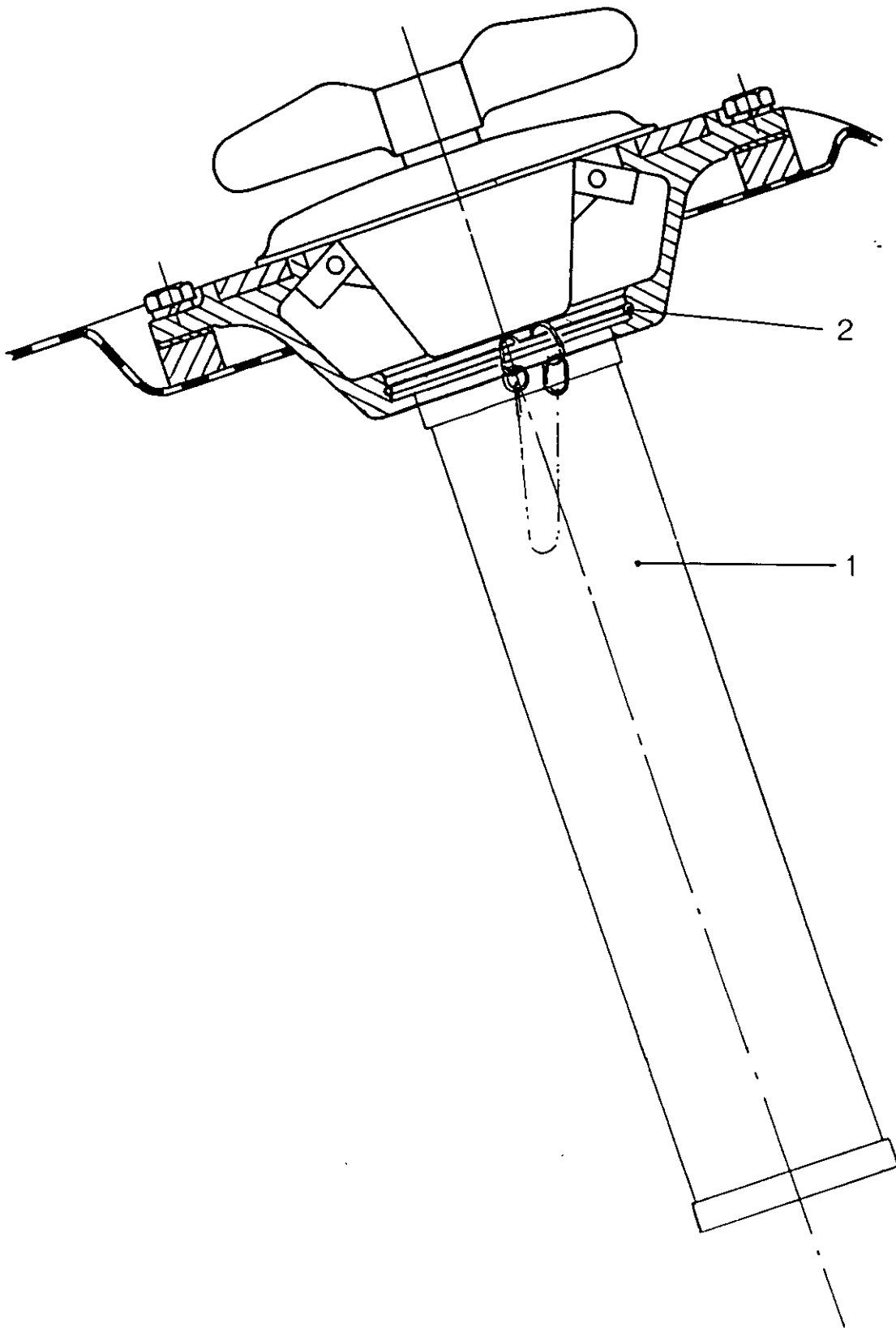
5 Embodiment: 0.15 man-hour.

**MODIFICATION IMPLEMENTATION PLAN**

6

6.1 This instruction is to be implemented by:

6.1.1 Units authorized to carry out levels 2, 3 or 4 maintenance.



V14634/1

Fig 1 Fuel tank filter



**CARRIER, ARMoured, STAFF VEHICLE, FULL TRACKED, FV436 (ASV/BATES)**

**MODIFICATION INSTRUCTION NO. 3**

Sponsor:  
DGES(L)

Publication Agency:  
DLO Andover  
Project No: S01008( )  
File ref: 43/6/0012

**AMENDMENT RECORD**

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

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

**SUBJECT: High visibility marker boards**

(Approval No. 43/6/0012)

**INTRODUCTION**

1 This instruction introduces the fitment of two high visibility marker boards to the stowage bin and armoured enclosure mounted either side of the rear door of the vehicle. The marker boards can be reversed to show green/black to match the vehicle when required.

1.1 Limitations on use of equipment. Nil.

**APPLICABILITY**

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

**REASON FOR MODIFICATION**

3 Code 1 - to improve safety.

**PRIORITY**

4 Immediate.

**ESTIMATED TIME REQUIRED**

5 Embodiment: 1.0 man-hour.

**MODIFICATION IMPLEMENTATION PLAN**

6

6.1 This instruction is to be implemented by:

6.1.1 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 On receipt of stores, request REME to modify equipment.
- 7.1.4 Record the AESP and instruction number in equipment documents.

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

- 7.2.1 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 When the Modification has been embodied, complete and return Annex A.

7.3 All recipients of this instruction. Add particulars to AESP 2350-T-253-811 Instr Index.**Stores, tools and equipment****NOTE**

If high visibility marker plates are fitted to the vehicle, and are of the same pattern as item 1, carefully remove and re-use the marker plates.

8

8.1 Stores to be demanded:

- 8.1.1 The following items are 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
1	6MT1	9905-99-837-2954	Marker plate (pair)	1
2	9ACR	2540-99-815-0156	Holder assembly	2
3	9ACR	2540-99-665-7535	Boss tapped M6	4
8.2 <u>Stores or suitable equivalent to be obtained locally:</u>				
4	G1	5305-99-122-5360	Screw hex hd M6 x 16 lg	8
5	G1	5310-99-122-5295	Nut hex M6	4
6	G1	5310-99-137-9232	Washer spring M6	8

8.3 Items/stores to be modified:

7	FV 586548	R/H stowage bin	1
8	FV 2072818	L/H armoured outlet	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:

**WARNING**

**PAINT PROCESSES TO BE CARRIED OUT IAW AESP 0200-A-221-013 FOLLOWING ALL NECESSARY SAFETY PRECAUTIONS**

Refer to fig 1

9.1 Weld, to current regulations, the boss tapped M6 (item 3) to the armoured outlet door (item 8).

9.2 Restore the paint finish, to current regulations, of the armoured outlet door (item 8). Paint, to current regulations, the rear surface of the marker plates (item 1) green/black to match rear stowage bin and armoured outlet.

Refer to fig 2

9.3 Drill holes as indicated in stowage bin door (item 7).

9.4 Fit-holder assemblies (item 2) to stowage bin and armoured outlet doors (item 7 and 8) using fittings (item 4, 5 and 6), ensuring that the opening for the marker plates (item 1) is at the top.

9.5 Fit the marker plates (item 1) in to the holder assemblies (item 2).

**TESTING AFTER EMBODIMENT**

10 Nil.

**EFFECT ON WEIGHT**

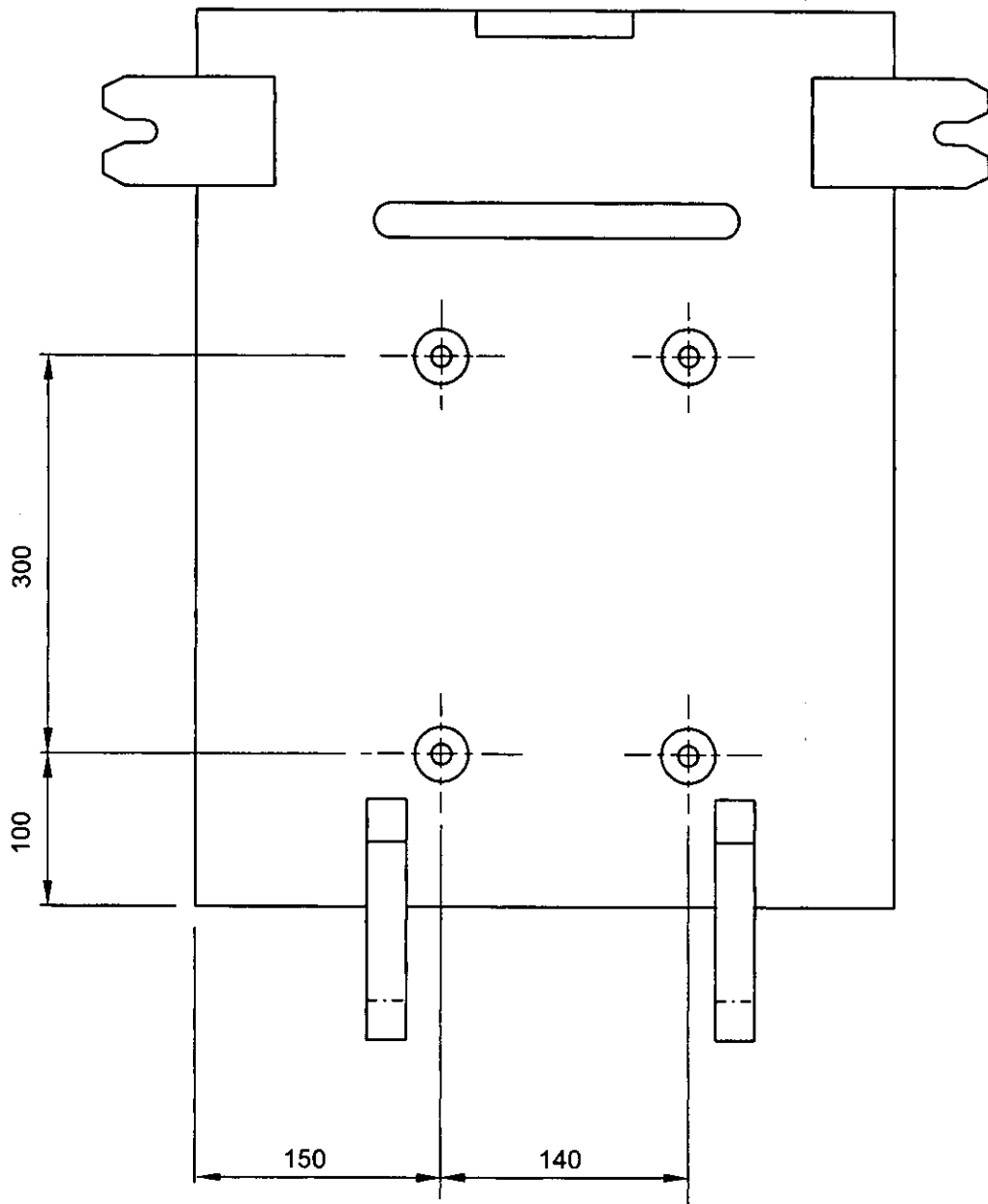
11 Negligible.

**PUBLICATION AMENDMENTS**

**NOTE**

Necessary amendments will be issued separately.

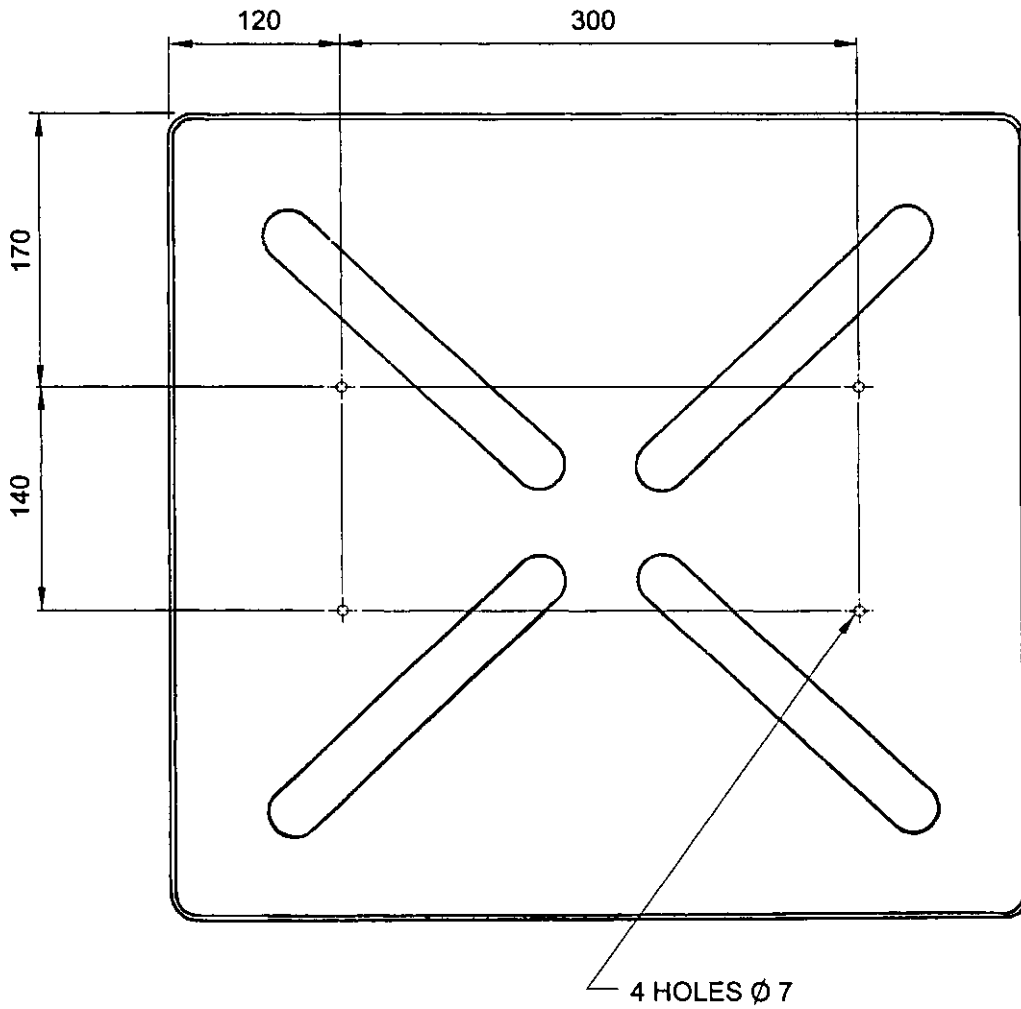
12 Nil.



DIMENSIONS IN mm

V14963/2

Fig 1 Rear armoured outlet door



DIMENSIONS IN mm

V14963/1

Fig 2 Rear stowage bin door

**MODIFICATION NO. 3**

**ANNEX A**

To enable accurate modification records to be maintained for all FV430 series vehicles, all units are to complete and return this form when the modification has been embodied. Multiple equipment returns can be submitted.

FV430 ESM LASS IPT DLO Monxton Road Andover Hampshire SP11 8HT
---

From:

Unit:	UIN:
Name:	Signature:

Modification No. 3

Date embodied:

Vehicle registration number(s)

**CARRIER, ARMOURED, STAFF VEHICLE, FULL TRACKED, FV436 (ASV/BATES)**

**MODIFICATION INSTRUCTION NO. 4**

Sponsor:  
DGES(L)

Publication Agency:  
DLO Andover  
Project No: S01008( )  
File ref:

**AMENDMENT RECORD**

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

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

**SUBJECT: Rear floor plate**

(Approval No. 43/0/0060)

**INTRODUCTION**

1 This instruction introduces a removable section of the rear floor plate to improve access to the fuel collector tank and fuel pump.

1.1 Limitations on use of equipment. Nil.

**APPLICABILITY**

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

**REASON FOR MODIFICATION**

3 Code 4 - to improve maintainability.

**PRIORITY**

4 Routine.

**ESTIMATED TIME REQUIRED**

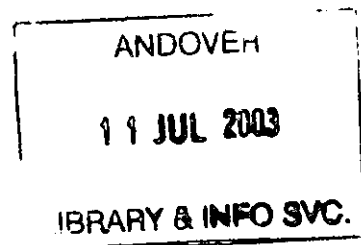
5 Embodiment: 1.5 man-hours.

**MODIFICATION IMPLEMENTATION PLAN**

6

6.1 This instruction is to be implemented by:

6.1.1 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 to see if modification is embodied and where necessary Units with 1<sup>st</sup> Line REME Support demand the stores required.

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

7.1.4 Record the AESP and instruction number in equipment documents.

7.2 Army units authorized to carry out levels 2, 3 and 4 maintenance:7.2.1 When requested by units or during overhaul of equipment on charge without REME 1<sup>st</sup> 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.

7.3 All recipients of this instruction. Add particulars to AESP 2350-T-253-811 Instr Index.**Stores, tools and equipment**

8

8.1 Stores or suitable equivalent to be obtained locally:

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
1	G1	5305-99-941-1748	Screw csk hd, 1/4" UNF	8
2	GNT6	9320-99-087-1288	Rubber sheet, 1/16 in thk x 36 in wide. (approx 6 in length required, to be cut into 2 in strips)	as req
3	H1ATS	8040-99-943-6957	Adhesive, Evostick 528	as req

8.2 Items/stores to be modified:

4	9ACR	2510-99-867-4642	Rear floor plate	1
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**Sequence of operations****NOTE**

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



9 Carry out this instruction as follows:

Refer to fig 1.

- 9.1 Remove rear floor plate (item 4), qty 3 insulation pads and qty 2 access plates (FV 585923).
- 9.2 Mark out and cut rear floor plate as indicated.
- 9.3 Mark out, drill and countersink the eight additional fixings in both sections of rear floor plate.
- 9.4 Refit and secure both sections of rear floor plate (item 4) in the hull. Spot the eight additional fixings in the hull. Remove both sections of the rear floor plate (item 4), drill and tap the additional fixings to suit.
- 9.5 Fit rubber strip (item 2) to the hull where the floor plate will fit using adhesive (item 3).
- 9.6 Fit and secure rear floor plate (item 4) using screws (item 1).

#### TESTING AFTER EMBODIMENT

10 Nil.

#### EFFECT ON WEIGHT

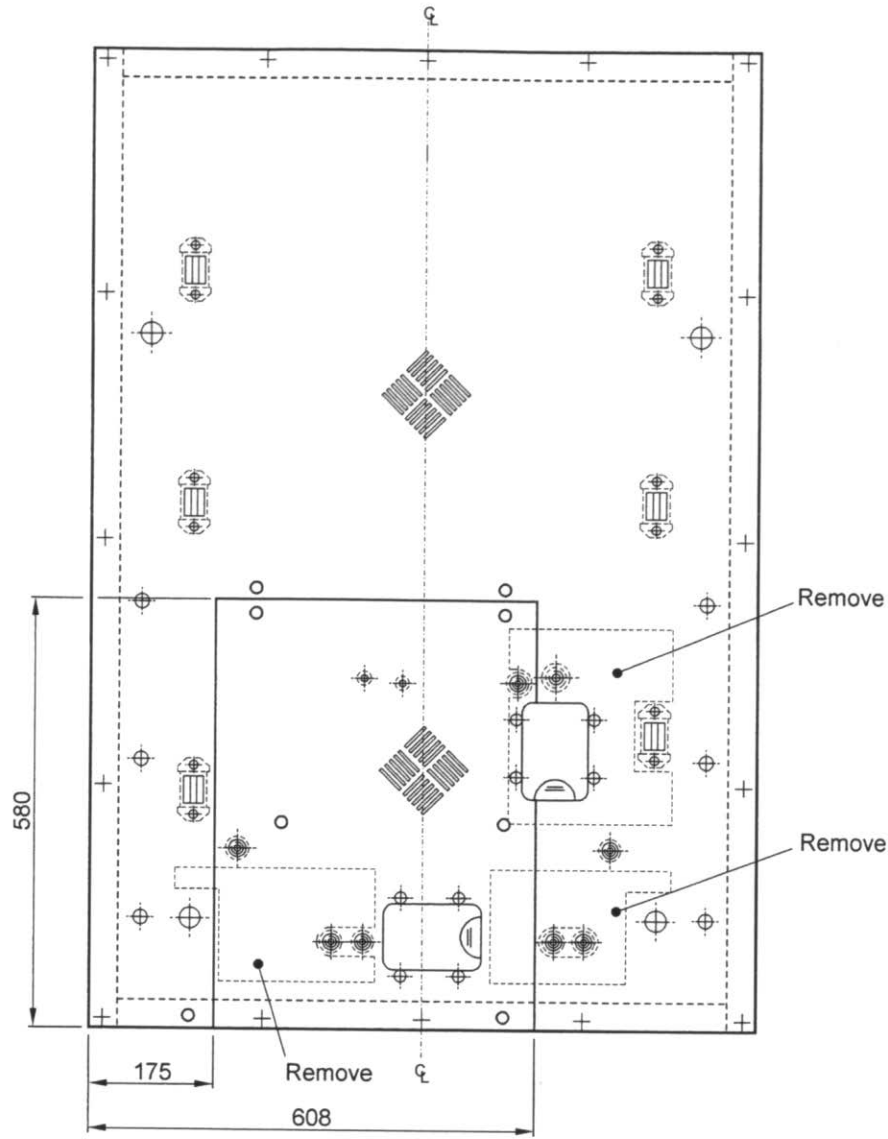
11 Negligible.

#### PUBLICATION AMENDMENTS

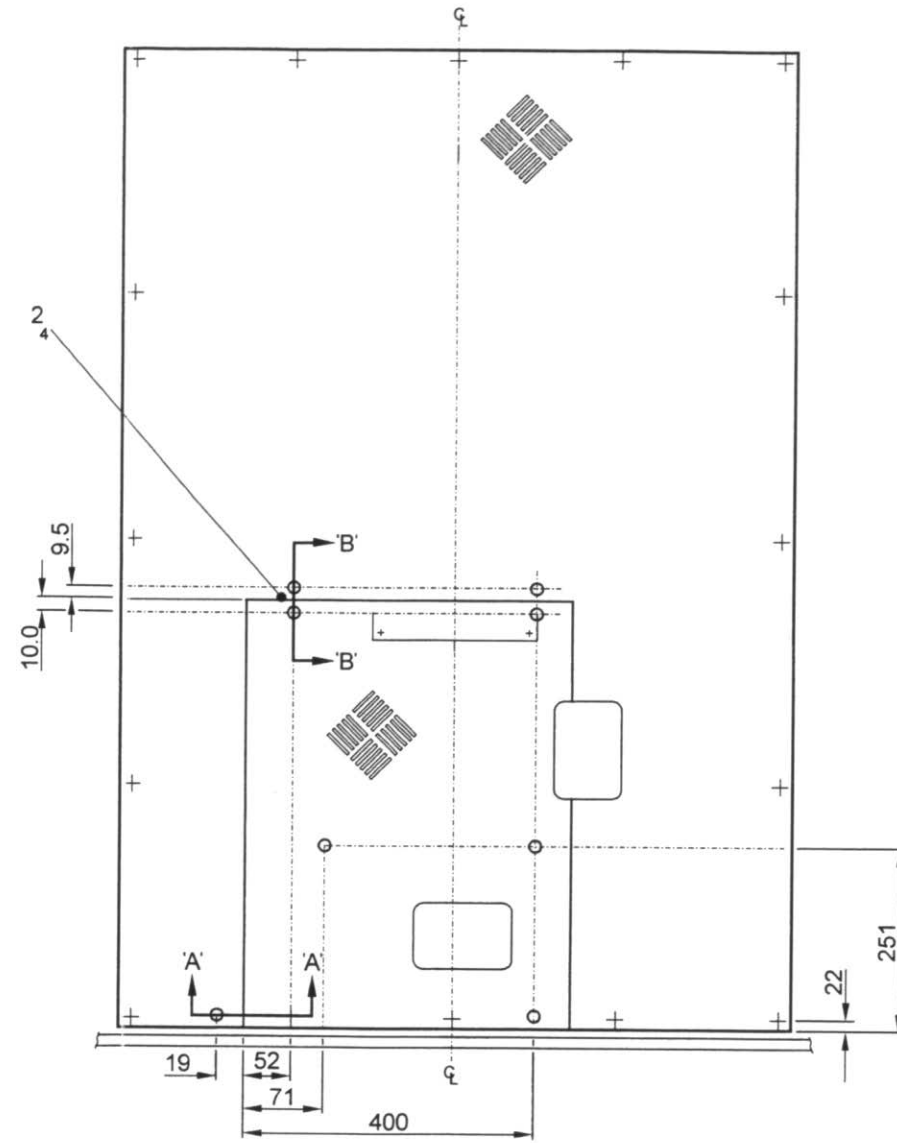
#### NOTE

Necessary amendments will be issued separately.

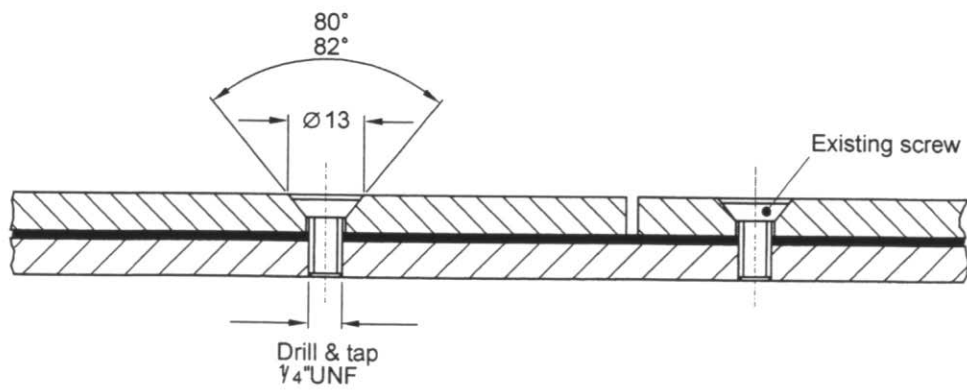
12 Nil.



VIEW ON FLOOR PLATE SHOWING CUTTING DETAILS

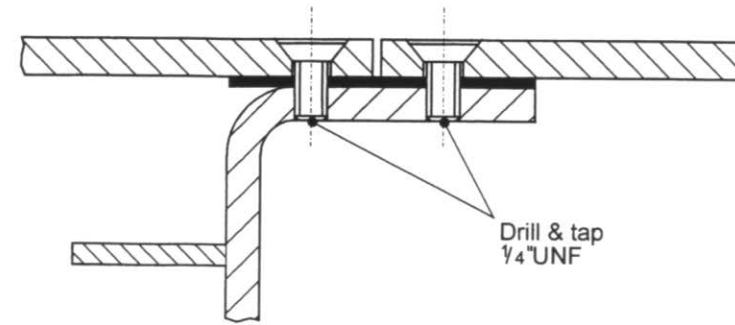


VIEW ON FLOOR PLATE SHOWING NEW FIXINGS



SECTION 'A' - 'A'

Additional fixings  
drill 7.2 Dia &  
Csk 13mm



SECTION 'B' - 'B'

Dimensions in MM

V15027/1

Fig 1 Rear floor plate modification detail

**CARRIER ARMoured, STAFF VEHICLE, FULL TRACKED, FV436 (POST BOWMAN)**

**MODIFICATION INSTRUCTION No 5**

Sponsor: LASS IPT DLO Andover

Publication Agency: BAES (Land Systems)

Project No:

File Ref: DGES (L) 13/5

**AMENDMENT RECORD**

Amdt No.	Incorporated By (Signature)	Date
1		
2		
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Amdt No.	Incorporated By (Signature)	Date
4		
5		
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**SUBJECT: Introduction of crew lap belts.**

Approval No: MAE 43/2/0020 (All variants less Mortar)

**INTRODUCTION**

1 This instruction details the procedures for the embodiment of crew seat belts into the FV436 vehicle. Lap belts are provided to restrain crew members travelling in the rear compartment in the event of a road traffic accident. Lap belts are mounted on a standard bracket, which is sandwiched behind the seat mounting brackets, according to the travelling configuration layout.

1.1 Limitations on use of equipment. Nil.

**APPLICABILITY**

2 The modification is applicable to the FV436 **post BOWMAN conversion**.

**REASON FOR MODIFICATION**

3 Code 1 – To improve safety.

**PRIORITY**

4 Immediate.

**ESTIMATED TIME REQUIRED**

5 Embodiment. 20 min per bracket.

**MODIFICATION IMPLEMENTATION PLAN**

6

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

6.2 Associated modification instructions AESP 2350-T-251-811 Mod Instr No 1 (EMER TV E 107/2 Mod Instr No 116).

6.3 Modification strike plate action: N/A.

**Action required by**

7

7.1 Units and establishments holding equipment.

7.1.1 Ensure applicability and demand the stores required.

7.1.2 On receipt of stores, request Level 2 Maintenance Support to modify the equipment.

7.1.3 Record the modification subject and AESP No. in vehicle AB413.

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

7.2.1 When requested by the users, obtain the items listed in Para 8 and carry out this instruction.

7.2.2 Record completion details in vehicle AB413.

7.3 All recipients of this instruction.

7.3.1 Add particulars to AESP 2350-T-253-811 Mod Instr Index.

**Stores, tools and equipment**

8

8.1 Table 1 - Stores to be demanded.

8.1.1 Each kit contains Qty 2 seat belts and Qty 1 support plate. Therefore units should demand Qty 1 kit for each double seat location.

8.1.2 The following kit is to be demanded quoting this instruction and the vehicle registration number as the authority for demand.

Item No	NSN / Part No	Drawing No or Reference No	Designation	Qty
1	2540-99-212-8099	MAE 43/2/0020	Kit Lap Belt (comprising of)	As reqd
2	2540-99-549-5386	FV2249146	Lap Belt	2
3	5305-99-941-0568		1/2 in. UNF X 1-1/4 in. Screw	4
4	5310-99-941-8637		1/2 in. Plain washer	8
5	5310-99-912-9584		1/2 in. Lock washer	4
6	2540-99-690-7049	FV2249173	Assy Plate Support Lap Belts	1

8.2 Table 2 - Items to be retained.

Item No	NSN / Part No	Drawing No or Reference No	Designation	Qty
1	5310-99-941-0928		Nut Hex 1/2 in. UNF	4 per seat
2	5310-99-944-0552		Spring Washer 1/2 in. dia	4 per seat

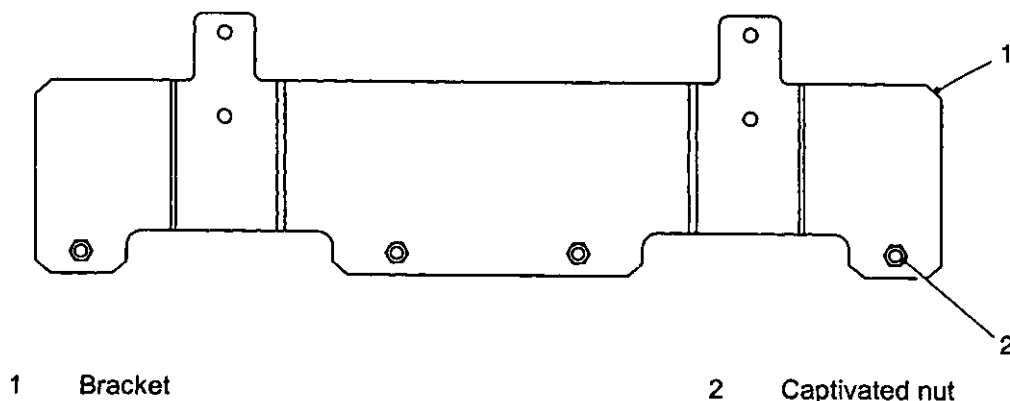
**Sequence of operations**

9 Carry out the modification as follows:

- 9.1 Remove the relevant personnel seats at the rear of the vehicle retaining items 1 & 2 of Table 2.
- 9.2 Attach the lap belts to the bracket using the 1/2 in. UNF X 1-1/4 in. screws with plain washers each side of the belt anchorage tabs and a lock washer under the head of the screw (Items 3, 4 & 5).
- 9.3 The lap belt bracket assembly (Fig 1) is secured behind the (upper) seat mounting brackets on the four studs welded to the hull. Position the lap belt bracket, replace the seat mounting bracket and secure with the retained nuts and washers.

**NOTE**

Some cutting away of the foam insulation may be required to ensure a flush fit of the bracket on the studs.



.432/534

Fig 1 Seat belt bracket (Rear View)

- 10 The belts should be fitted in such a manner that they are biased towards their other half.
- 11 Testing after embodiment – NIL.

**EFFECT ON WEIGHT**

12 Negligible.

**PUBLICATION AMENDMENTS**

13 Relevant AESP's will be amended in due course.

**CARRIER ARMoured STAFF VEHICLE, FULL TRACKED,  
FV436 MK 2 AND 2/1**

**MODIFICATION INSTRUCTION No. 6**

Sponsor:  
LAS IPT

Publication Agency: +  
BAE Systems Land Systems  
Task No. 36042

**AMENDMENT RECORD**

Amdt No.	Incorporated by (Signature)	Date
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**SUBJECT: Hatch Locking Arm (Commander's)**

Approval No. MAE 43/2/0034

**INTRODUCTION**

1 As a result of serious equipment failure when the commander's hatch locking arm (catch) failed to lock in the open position, causing injury to personnel, a modified catch is introduced.

**APPLICABILITY**

2 This modification is applicable to: FV436 MK 2 AND 2/1.

**REASON FOR MODIFICATION**

3 Code 1 – To improve safety.

**PRIORITY**

4 Immediate.

**ESTIMATED TIME REQUIRED**

5 Embodiment: 2 Man hours.

**MODIFICATION IMPLEMENTATION PLAN**

6 This instruction is to be implemented by units authorised to undertake level 2 maintenance and above.

**Action required by**

7

7.1 Units holding subject vehicles:

7.1.1 Demand items listed in Para 8 and carry out this instruction.

7.1.2 Record completion details in vehicle documents.

7.2 All recipients of the AESP.

Add particulars to AESP 2350-T-253-811 Modification Instruction Index.

**Stores, Tools and Equipment**

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

8.1 Stores to be demanded

Item No.	NSN/Part No.	Designation	Qty Per eqpt
1	2510-99-736-7835	Catch – Commander's Hatch	1
2	5315-99-944-0176	Split Pin 3/32" dia x 7/8"lg	1

8.2 Stores to be discarded

Item No.	NSN/Part No.	Designation	Qty Per eqpt
3	2510-99-865-6527	Catch – Commander's Hatch	1
4	5315-99-944-0176	Split Pin 3/32" dia x 7/8"lg	1

8.3 Stores to be removed and refitted

Item No.	NSN/Part No.	Designation	Qty Per eqpt
5	5315-99-137-8940	Pin	1
6	5360-99-865-6518	Torsion Spring	1
7	5365-99-865-6517	Distance Piece	2
8	703000800910	Plain Washer 1/2" dia x 13 SWG	2

### Sequence of operations

9 Refer to figs 1 & 2 and embody the modification as follows:

9.1 With the commander's hatch in closed position remove split pin (4) and washer (8) from one end of pin (5). Remove pin together with torsion spring (6), distance pieces (7), commander's hatch catch (3) and washer. Discard split pin and commander's hatch catch.

9.2 Refit torsion spring (6) and distance pieces (7) and fit replacement commander's hatch catch (1), securing in position with pin. Refit washer (8) and replace split pin (2).

### TESTING AFTER EMBODIMENT

10 Ensure hatch locking arm operates correctly and cannot be "bounced" out of the locked open position.

### EFFECT ON WEIGHT

11 Nil

### PUBLICATION AMENDMENTS

12 Nil.



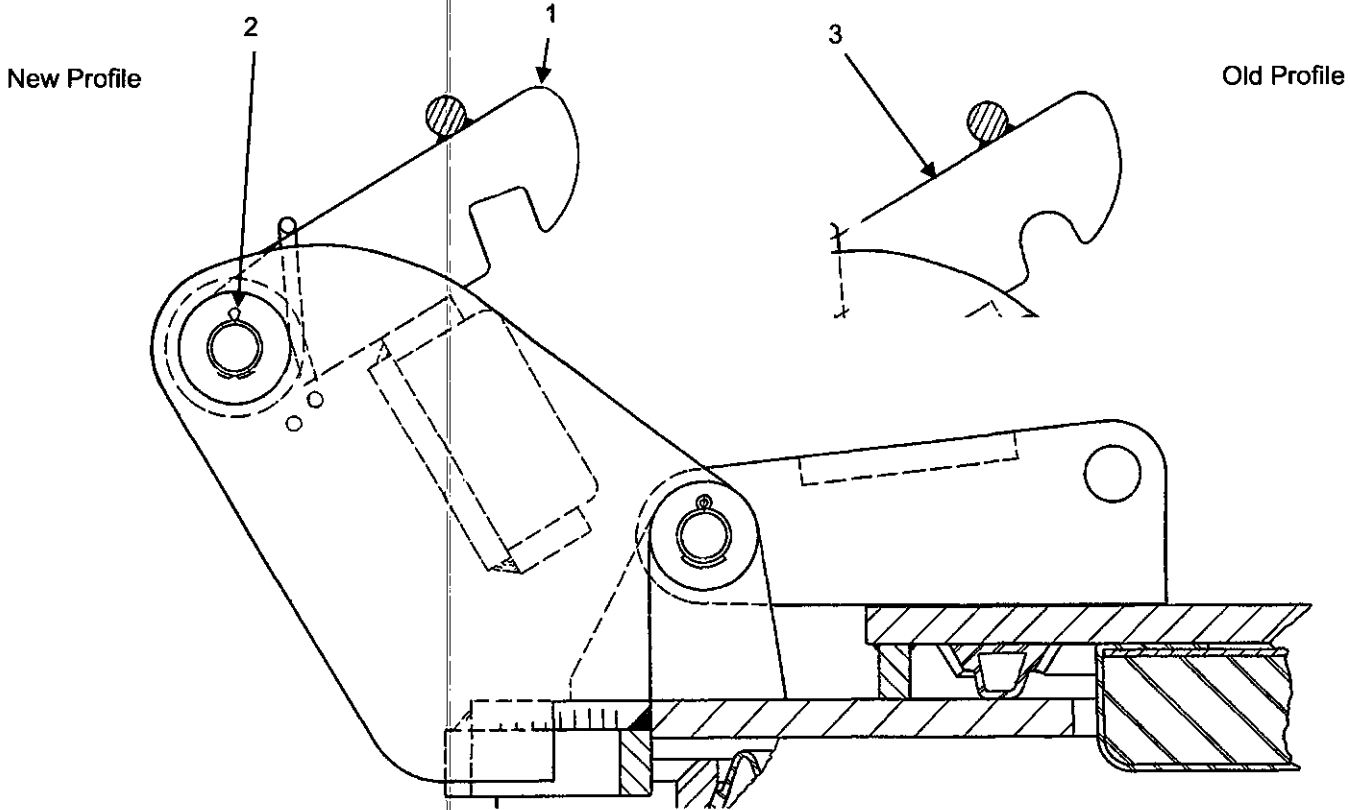


Fig 1 Catch Mechanism Side View

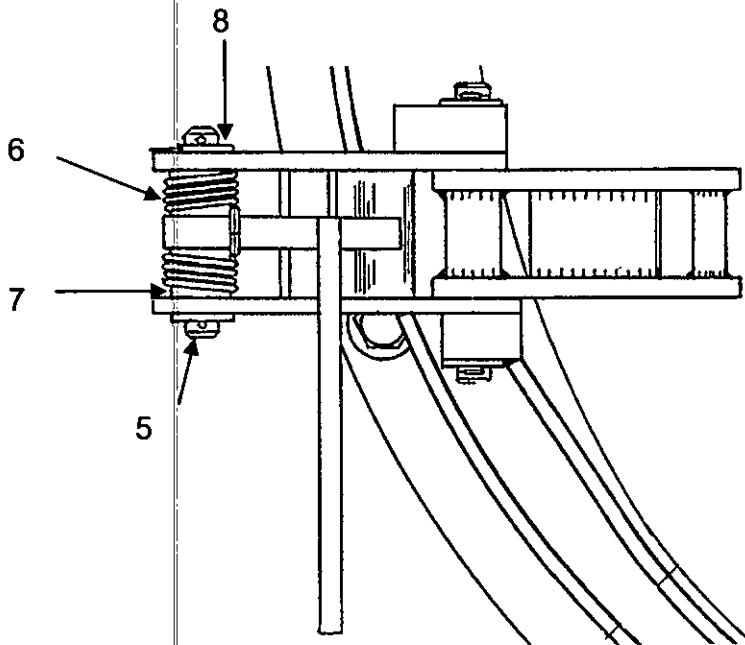


Fig 2 Catch Mechanism View from Above

**CARRIER, ARMoured STAFF VEHICLE (ASV) FULL TRACKED  
FV436 MK2 AND 2/1**

**MODIFICATION INSTRUCTION No. 8**

Sponsor:  
LAS IPT DE & S

Publication Agency:  
BAE Systems Land Systems  
(W&V) Ltd

Task No.: 36021

**AMENDMENT RECORD**

Amdt No.	Incorporated By (Signature)	Date	Amdt No.	Incorporated By (Signature)	Date
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**SUBJECT: Modified generator frame for the lightweight field generator**

(Approval No. **TBA** )

**INTRODUCTION**

1 This modification instruction details the procedure to remove the old generator frame and the installation of a modified generator frame for the lightweight field generator.

**APPLICABILITY**

2 This modification instruction is applicable to FV436 Mk 2 AND 2/1.

**REASON FOR MODIFICATION**

3 Code 1 – to improve health and safety.

**PRIORITY**

4 Immediate.

**ESTIMATED TIME REQUIRED**

5  
5.1 Removal/Refitting: **TBA** man-hour.

**MODIFICATION IMPLEMENTATION PLAN**

6 This modification instruction is to be implemented by units authorized to undertake level 2 maintenance and above.

**Action required by**

7

7.1 Holding units and establishments:

7.1.1 Examine equipment documents to see if this instruction is applicable.

7.1.2 On receipt of the stores, request level 2 maintenance and above to modify the equipment.

7.1.3 Record the modification subject and AESP details in the equipment documents.

7.2 Units authorised to complete level 2 maintenance and above:

7.2.1 When requested by users, obtain the items listed in Para 8.1 and carry out this instruction.

7.2.2 Record completed details of modification in vehicle documents (AB413).

7.3 All recipients of this instruction: Add particulars to AESP 2350-T-253-811 Modification Instruction Index.**Stores, tools and equipment**

8 The following items are to be demanded quoting this instruction as authority for demand and the registration number of vehicle for equipment held by user units.

8.1 Stores to be obtained:

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
1		FV2200930	Generator Frame stowage bracket (Modified) Comprising	1
		FV2200931	Generator frame stowage bracket welded assy	1
		FV2281621	Clamp LH welded assy	1
		FV2281622	Clamp RH welded assy	1
		FV2200933	Bar	2
		WDS102-203 85	Hand screw c/w m10x85 lg allthread	2
	G1B	5315-99-952-8015	Pin cotter split	2

8.2 Stores to be discarded:

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
2		FV2200930	Generator Frame stowage bracket (Unmodified)	1

## Sequence of operations

### NOTE

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

### 9 Refer to Fig 1 and carry out the modification as follows:

9.1 Ensure the vehicle is parked on firm level ground with the parking brake applied and the vehicle master switch in the OFF position.

9.2 When a lightweight field generator is to be installed and/or replaced on the vehicle locate and identify the type of generator frame fitted.

9.3 Remove the Generator from the generator frame using the roof mounted hoist.

9.4 If the generator frame is an unmodified type as shown in Fig 1(2) remove and discard the generator frame retaining all fixings.

9.5 Replace with a modified generator frame Fig 1(1) and secure using the fixings removed in Para 9.4.

9.6 Install the lightweight field generator using the hoist and secure in position with clamps and hand screws.

### Testing after embodiment

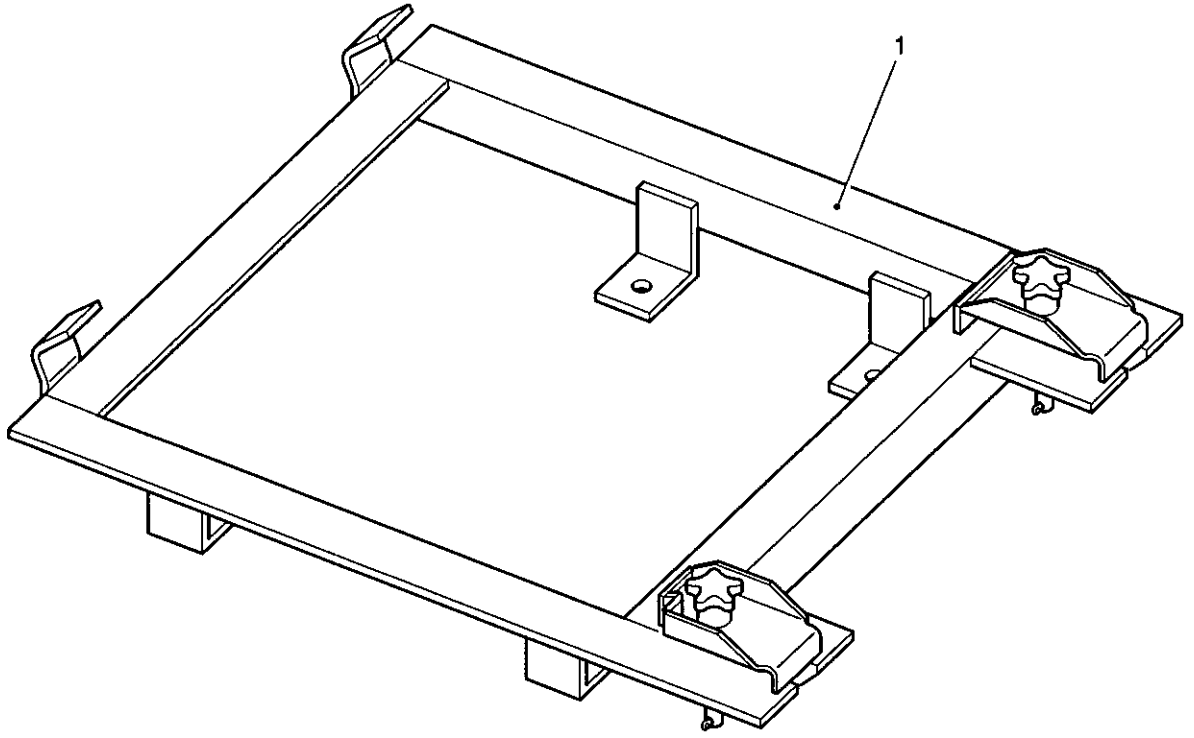
10 Nil

### EFFECT ON WEIGHT

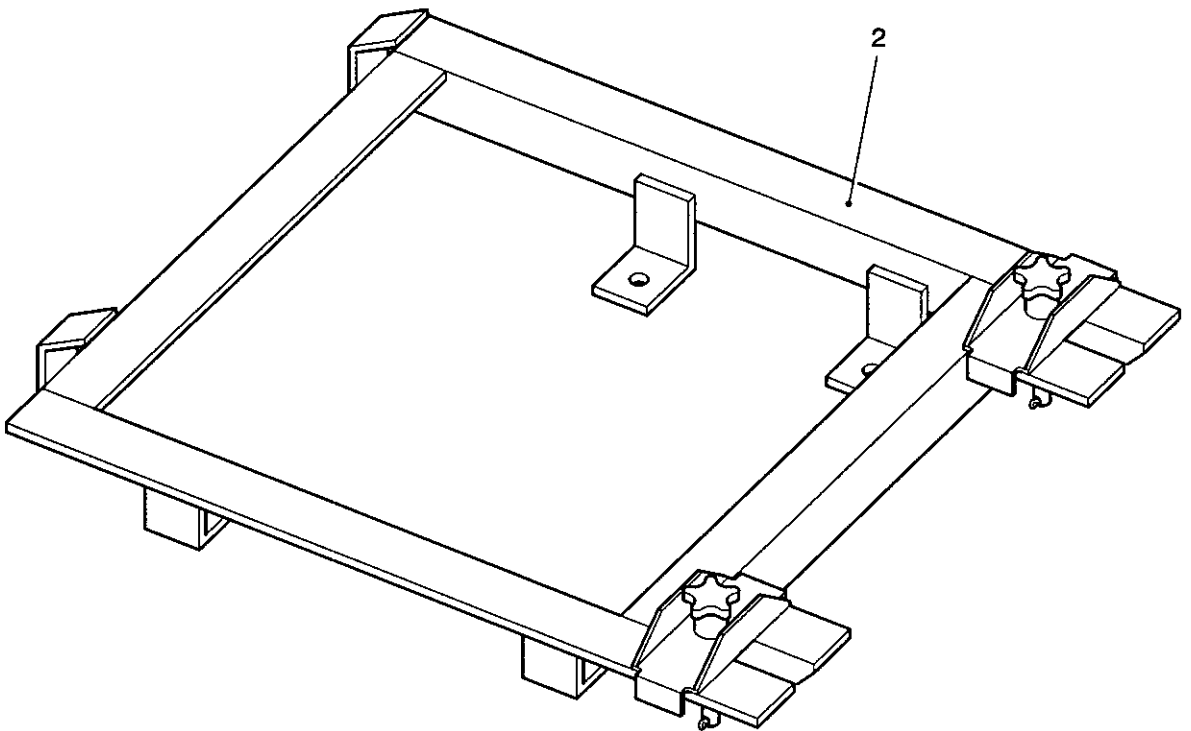
11 Nil.

### PUBLICATION AMENDMENTS

12 Appropriate publications will be amended in due course.



MODIFIED



UNMODIFIED

430/80102

Fig 1 Generator frame stowage bracket