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DEFENCE LOGISTICS ORGANISATION CHOBHAM LANE, CHERTSEY SURREY KT16 OEE



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CARRIER, ARMOURED STAFF VEHICLE, FULL TRACKED FV436 (ASV)

GENERAL INSTRUCTIONS AND INDEX

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BY COMMAND OF THE DEFENCE COUNCIL

Ken Terri

Ministry of Defence
Issued by
DEFENCE LOGISTICS ORGANISATION

AMENDMENT RECORD

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PREFACE

Sponsor: DGES(A) File ref:

Publication Agency: ATSA Chertsey

Project No: 97/41c/217(256)

File ref: Admin 281

INTRODUCTION

- 1 The Publication Agency is responsible for the allocation of instruction numbers.
- All general instructions as issued are to be recorded in manuscript by the recipient on the Numerical General 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 ATSA 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.

GENERAL INSTRUCTION INDEX

Instr No.	SI/STI No.	Subject	Approval No./ Remarks
(1)	(2)	(3)	(4)
1		EMER TV E109/6 Misc Instr No. 1 and 2	
2		FRONT HOTCH HINGE REPLACEMENT	43/0/0032
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COMMENT(S) ON AESP

To: ATSA DTS 3.2 Ha Ha Road Woolwich LONDON SE18 4QF	FR		
Sender's Reference	BIN Number	Date	
AESP Title:			
Chapter(s)/Instruction	Page(s)/Parag	raph(s)	
If you require more space, please use the Comment(s):	ne reverse of this	form or a separate p	iece of paper.
Signed:		Telephone No:	
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our reference			
Action is being taken to:	Tick		Tick
Issue a revised/amended AESP		Under investigation	
Incorporate comment(s) in future amend Remarks	iments	No action required	
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Signed:	Tel	ephone No:	

CARRIER, ARMOURED STAFF VEHICLE, FULL TRACKED FV436(ASV)

GENERAL INSTRUCTION NO. 1

Sponsor: DGES(L) Publication Agency:
DLO Chertsey
Project No: 97/41c/

Project No: 97/41c/217(256)

File ref: Admin 281

AMENDMENT RECORD

Amdt No.	Incorporated By (Signature)	Date
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SUBJECT: EMER TV E109/6 Miscellaneous Instructions No. 1 and 2

INTRODUCTION

1

- 1.1 The EMER decade (TV E100/6 to TV E109/6) that supports the FV436 Series is to be cancelled and replaced by AESP 2350-T-253-octad.
- 1.2 This AESP General Instruction No. 1 is a complete issue of EMER TV E109/6 Miscellaneous Instructions No. 1 to No. 2 issued under the EMER system.
- 1.3 Subsequent Miscellaneous Instructions will be issued in AESP format as General Instructions, starting with Gen Instr No. 2.
- 1.4 Where the EMER TV E109/6 Miscellaneous Instructions refer to an associated EMER TV E100 series publication, this information will be incorporated within the appropriate Miscellaneous Instruction.
- 1.5 Remove and retain EMER TV E109/6 Miscellaneous Instructions No. 1 to No. 2 from the EMER folder.
- 1.6 Place this instruction in front of Miscellaneous Instructions removed at Sub-Para 1.5.
- 1.7 Open a new folder numbered 2350-T-253-821 and titled CARRIER, ARMOURED STAFF VEHICLE, FULL TRACKED FV436(ASV) General Instructions, and place the EMER TV E109/6 Miscellaneous Instructions within.
- 1.8 Limitations on use of equipment: As detailed within each Miscellaneous Instruction.

APPLICABILITY

2

2.1 FV436.

REASON FOR MODIFICATION

Code 6 - Publications changed from EMER to AESP format.

PRIORITY

4 Routine.

TABLE 1 GENERAL INSTRUCTION INDEX

Instr No. (1)	Issue No. (2)	Pages (3)	Subject (4)	Applicability (5)	Approval No./Remarks (6)
1	1	1-4	Exhaust extension steady bracket		43/6/007
2	1	1-6	Thermal identity beacon	AFV 436 Bates, FV436 ASV	

PUBLICATION AMENDMENTS

NOTE

Necessary amendments will be issued separately.

5 Nil.

(By Command of the Defence Council)

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CARRIER, ARMOURED, STAFF VEHICLE, FULL TRACKED, FV 436 (ASV) TECHNICAL HANDBOOK - MISCELLANEOUS 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	1	1-4	EXHAUST EXTENSION STEADY BRACKET	
2	-	1-6	THERMAL IDENTITY BUTACON	
3				
4				
5				
6				
7				



Instr No	Issue No	Pages	Subject	Approval No/ Remarks
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D313-02-0812.2 Issue 1, Jan 88





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CARRIER, ARMOURED, STAFF VEHICLE, FULL TRACKED

FV 436 (ASV/BATES)

TECHNICAL HANDBOOK - MISCELLANEOUS INSTRUCTION

SUBJECT: Exhaust extension steady bracket.

(MAE 43/6/007)

INTRODUCTION

1 This instruction details the fitting of a steady strap to the exhaust extension.

APPLICABILITY

2

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

REASON FOR MISCELLANEOUS INSTRUCTION

3 Code 3 - to improve reliability.

PRIORITY

4 Routine.

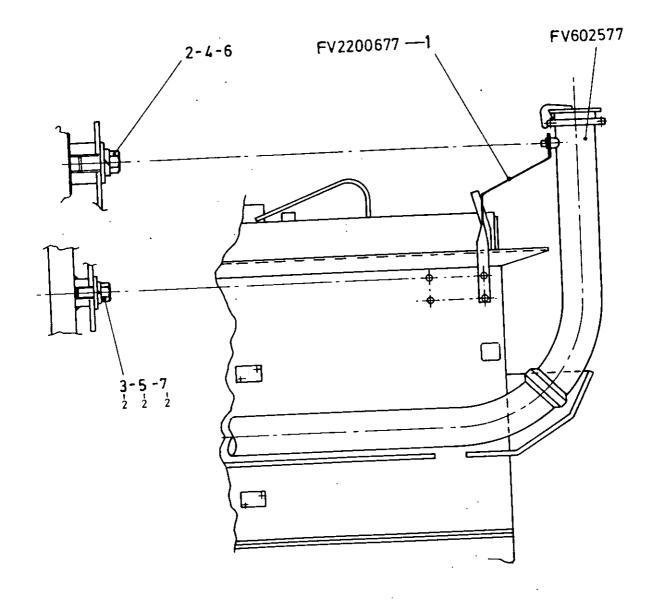
ESTIMATED TIME REQUIRED

5 Embodiment: 0.5 man-hours.

IMPLEMENTATION PLAN

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

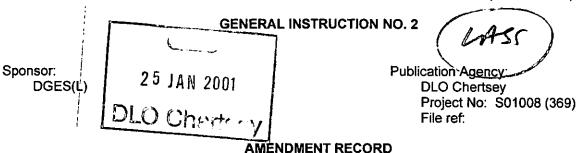
72211(245) ATSA Chertsey



V13951/1

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CARRIER, ARMOURED, STAFF VEHICLE, FULL TRACKED, FV 436 (ASV/BATES)



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SUBJECT: Front hatch hinge replacement

(Approval No. 43/0/0032)

INTRODUCTION

- 1 This instruction introduces a method of replacing the front hatch hinges.
 - 1.1 Limitations on use of equipment. Nil.

APPLICABILITY

- 2 All FV 436 vehicles when the front hatch hinges require replacement.
 - 2.1 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: 2.00 man-hours.

MODIFICATION IMPLEMENTATION PLAN

6

- 6.1 This instruction is to be implemented by Units authorized to carry out levels 3 or 4 maintenance
- 6.2 Associated instructions. Nil

Action required by

7

- 7.1 Units and establishments holding equipment:
 - 7.1.1 Examine equipment documents to see if modification is applicable.
- 7.2 Army units authorized to carry out levels 3 and 4 maintenance:
 - 7.2.1 When requested by units or during overhaul of equipment 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-253-821 Gen Instr Index.

Stores, tools and equipment

8

8.1 Stores to be demanded:

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

Item No.	DMC	NSN/Part No.	Designation	Qty per eqpt
1	9ACR	2540-99-874-8857	Hinge, front access cover, hatch half.	2
2	9ACR	2540-99-831-1116	Hinge, front access cover, hull half.	2
3	9ACR	5315-99-804-5525	Pin.	2

Repair schemes

NOTE

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

- 9 Carry out this instruction, as follows, using items 1, 2 and 3 as required:
 - 9.1 To replace the front access cover hinges (hatch), follow the repair scheme detailed at Fig 1.

or

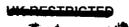
9.2 To replace the front access cover hinges (hull), follow the repair scheme detailed at Fig 2.

or

9.3 To replace the front access cover hinges (hull and hatch), follow the repair scheme detailed at Fig 3, followed by the repair scheme detailed at Fig 1.

TESTING AFTER EMBODIMENT

10 Check front access hatch to ensure that it opens, closes and seals correctly.



EFFECT ON WEIGHT

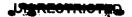
11 Negligible.

PUBLICATION AMENDMENTS

NOTE

Necessary amendments will be issued separately.

12 Nil.



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CARRIER, ARMOURED, STAFF VEHICLE, FULL TRACKED

FV 436 (ASV/BATES)

TECHNICAL HANDBOOK - MISCELLANEOUS INSTRUCTION

SUBJECT: Exhaust extension steady bracket.

(MAE 43/6/007)

INTRODUCTION

1 This instruction details the fitting of a steady strap to the exhaust extension.

APPLICABILITY

2

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

REASON FOR MISCELLANEOUS INSTRUCTION

3 Code 3 - to improve reliability.

PRIORITY

4 Routine.

ESTIMATED TIME REQUIRED

5 Embodiment: 0.5 man-hours.

IMPLEMENTATION PLAN

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

72211(245) ATSA Chertsey

9801\NTCP-0501 May 98, Issue 1 (24N)

AN DECEMBED :



Action required by:

7

- 7.1 Units authorized to carry out levels 2, 3 and 4 maintenance:
 - 7.1.1 When requested by users obtain the items listed in Para 8 and carry out this instruction.
 - 7.1.2 Upon completion, record details of this instruction in equipment documents.
- 7.2 All recipients of this instruction. Add particulars to EMER Tkd Veh E 109/6 Misc 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	2990-99-169-0706 FV 2200677	Strap exhaust	1	
8.2 Stores or suitable equivalent to be obtained locally:					
2	G1	5305-99-124-3976	Screw 3/8 in. x 5/8 in. lg UNF	1	
3		5309-99-941-0512	Screw 1/4 in. x 1/2 in. lg UNF	2	
4		5310-99-915-5148	Washer 3/8 in.	1	
5		5310-99-912-8796	Washer 1/4 in.	2	
6		5310-99-103-6632	Washer spring 3/8 in.	1	
7		5310-99-139-5477	Washer spring 1/4 in.	2	

Sequence of operations

9 Carry out the instruction as follows:

Refer to Fig 1

- 9.1 Fit exhaust extension.
- 9.2 Secure extension with strap (item 1) using screws and washers (item 2 to 7) to side of vehicle as shown.

TESTING AFTER EMBODIMENT

10 Nil.

EFFECT ON WEIGHT

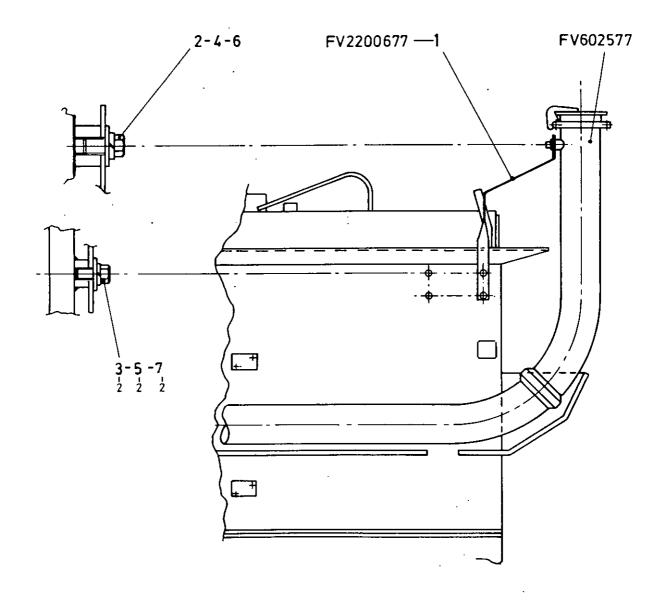
11 Negligible.

PUBLICATION AMENDMENTS

NOTE

Necessary amendments will be issued separately.

12 Nil.



V13951/1

Fig 1 Exhaust strap fitting

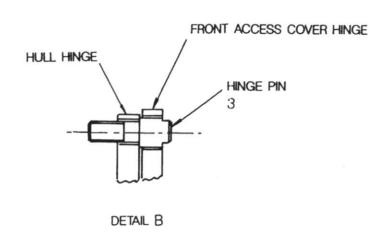
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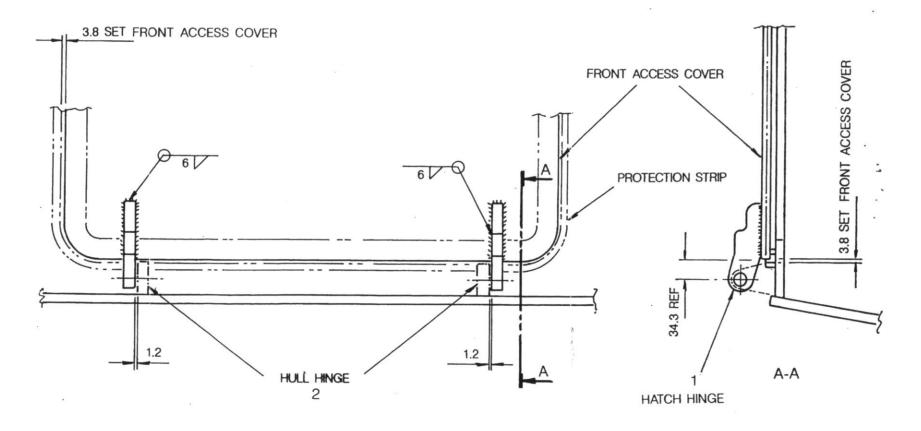
- (1) This scheme is to be used when hinges on front access cover assembly are replaced.
- (2) Welding is to be carried out to EMER Wksp O 360 Chap 12, using a 3.25 mm rod.
- (3) Before commencing with repair, remove front access cover from the vehicle.
- 1 Remove existing access cover hinges by gas cutting or gouging within 6 mm of armour plate.
- 2 Remove remaining metal by grinding. Avoid overheating of armour plate.
- 3 Linish smooth armour plate and protective strip and use NDT (penetrant dye) to establish that no surface cracks are present.

NOTE

If cracks are present a separate repair procedure will be required.

- 4 Locate front access cover on vehicle and set to 3.8 mm from inside edge of protection strip and clamp in position.
- 5 Set first front access cover hinge to 1.2 mm from first hull hinge and align hole centres using hinge pin (item 3). Make initial root weld along bottom edge of hinge and cover.
- 6 Set second front access cover hinge to 1.2 mm from second hull hinge and align hole centres using hinge pin (item 3). Make initial root weld along bottom edge of hinge and cover.
- 7 Check accuracy of hinge for position and squareness and use hinge pin (item 3) to ensure clearance when pivoting. See detail 'B'.
- 8 Unclamp front access cover and remove from vehicle.
- 9 Complete welding of front access hinges as shown.
- 10 Inspect.
- 11 After 72 hours, check with NDT that welds and plates are crack free.
- 12 Finish to DEF STAN 03-32 Part 2, colour as per contract.





DIMENSIONS IN MM

V14677/4

Fig 1 Replacement of the front access cover hinges (hatch), set from the hull hinges

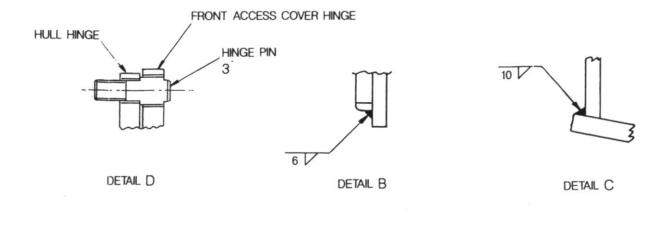
NOTES

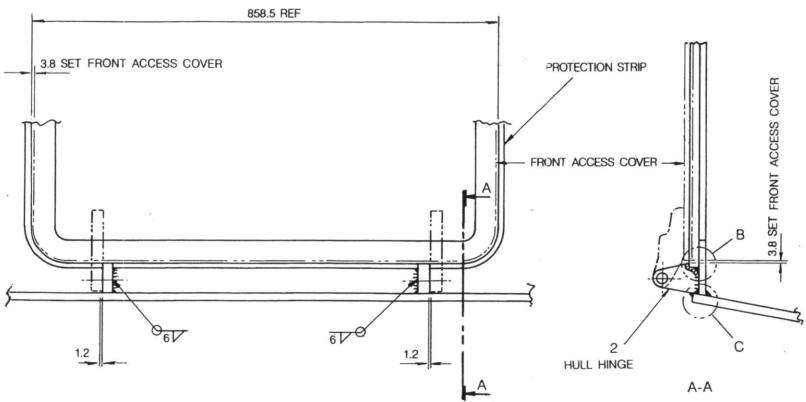
- (1) This scheme is to be used when only the hinges on the hull are to be replaced. Hull hinge positions are set from existing front access cover assembly hinges.
- (2) Welding is to be carried out to EMER Wksp O 360 Chap 12, using a 3.25 mm rod.
- (3) Before commencing with repair, remove front access cover from the vehicle.
- 1 Remove existing hull hinges by gas cutting or gouging to within 6 mm of armour plate. Avoid damaging protection strip.
- 2 Remove remaining metal by grinding. Avoid overheating of armour plate.
- 3 Linish smooth armour plate and protection strip and use NDT (penetrant dye) to establish that no surface cracks are present.

NOTE

If cracks are present a separate repair procedure will be required.

- 4 Replace weld removed from edge of protection strip during ops 1, 2 and 3 with a fillet weld as indicated on detail 'B'.
- 5 Locate front access cover on vehicle, set to 3.8 mm and clamp in position.
- 6 Set first hull hinge to 1.2 mm from first front access cover hinge and align holes centres using hinge pin (item 3). Make initial root weld along bottom edge of hinge and hull.
- 7 Set second hull hinge to 1.2 mm from second front access cover hinge and align holes using hinge pin (item 3). Make initial root weld along bottom edge of hinge and hull.
- 8 Check accuracy of hinge for position and squareness and use hinge pin (item 3) to ensure clearance when pivoting. See detail 'D'.
- 9 Unclamp front access cover and remove from vehicle.
- 10 Complete fillet welding of hull hinges as shown.
- 11 Replace weld removed from hull nose plates during ops 1, 2 and 3 with a fillet weld as indicated as detail 'C'.
- 12 Inspect.
- 13 After 72 hours, check that welds and plates are crack free.
- 14 Finish to Def Stan 03-32 Part 2, colour as per contract.





DIMENSIONS IN MM

V14677/2

Fig 2 Replacement of the front access cover hinges (hull), set from the hatch hinges

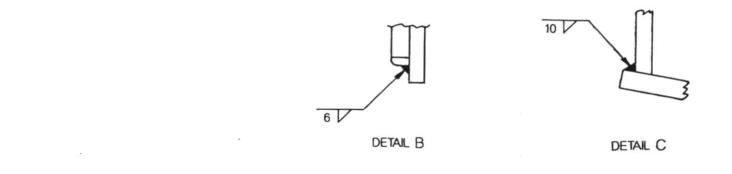
NOTES

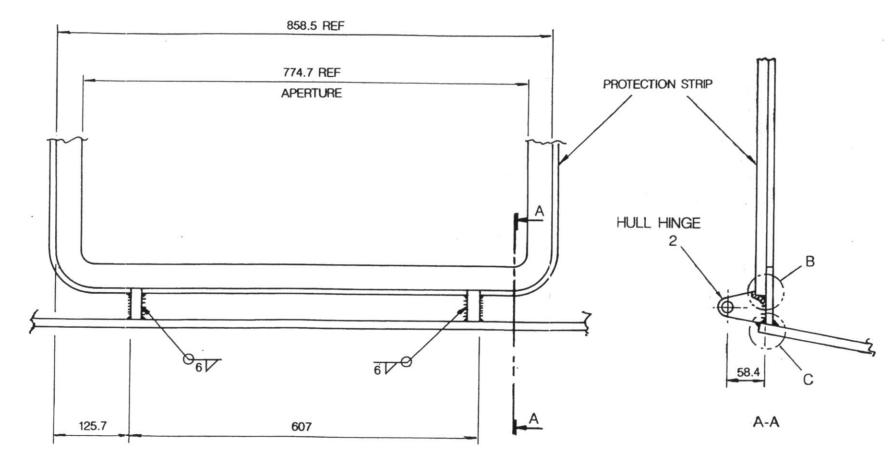
- (1) This scheme is to be used when the hinges on hull and front access cover are to be replaced. Use this scheme to replace the hull hinges, followed by the scheme detailed at Fig 1, to replace the front access cover hinges.
- (2) Welding is to be carried out to EMER Wksp O 360 Chap 12, using a 3.25 mm rod.
- (3) Before commencing with repair, remove front access cover from the vehicle.
- 1 Remove existing hull hinges by gas cutting or gouging to within 6 mm of armour plate. Avoid damaging protection strip.
- 2 Remove remaining metal by grinding. Avoid overheating of armour plate.
- 3 Linish smooth armour plate and protection strip and use NDT (penetrant dye) to establish that no surface cracks are present.

NOTE

If cracks are present a separate repair procedure will be required.

- 4 Replace weld removed from edge of protection strip during ops 1, 2 and 3 with a fillet weld as indicated at detail 'B'.
- 5 Set first hinge to 125.7 mm from inside of protection strip and make initial root weld along bottom edge of hinge.
- 6 Check accuracy of hinge for position and squareness.
- 7 Complete fillet welding of hinge as shown.
- 8 Set second hinge to 607 mm and make initial root weld along bottom edge of hinge.
- 9 Check accuracy of hinge for position and squareness.
- 10 Complete fillet welding of hinge as shown.
- 11 Replace weld removed from hull nose plates during ops 1, 2 and 3 with a fillet weld as indicated at detail 'C'.
- 12 Inspect.
- 13 After 72 hours, check with NDT that welds and plates are crack free.
- 14 Finish to Def Stan 03-32 Part 2, colour as per contract.





DIMENSIONS IN MM

V14677/1

Fig 3 Replacement of the front access cover hinges (hull), set to the original build standard

UK RESTRICTED