TRUCK, SURVEILLANCE, LIGHTWEIGHT, WINCH, MC2 - LANDROVER 110 4X4

INSTALLATION OF MASS REDUCTION COMPONENTS

MODIFICATION INSTRUCTION

This instruction is authorised for use by command of the Chief of Army. It provides direction, mandatory controls and procedures for the operation, maintenance and support of equipment. Personnel are to carry out any action required by this instruction in accordance with EMEI General A 001.

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INTRODUCTION

1. This Modification Instruction details the replacement of existing components with lightweight components to the Truck, Surveillance, Lightweight, Winch, MC2, Land Rover 110 4x4 also known as, and referred to herein as the Regional Force Surveillance Vehicle (RFSV). The replacement lightweight components were developed and introduced under the Mass Reduction Program (MRP) which is part of the Land Rover Safety Improvements Project. The kit includes a replacement Brushguard Assembly, Sideguard Assemblies, Spare Wheel Carrier and a Side Basket Stowage System.

2. The installation of the replacement components is to be completed following the Fitting of Safety Improvement Kit Modification Instruction. The Fitting of Safety Improvement Kit Modification Instruction details the installation of a Roll Over Protection System, a Cargo Restraint System and a Personnel Restraint System to the RFSV. The MRP modifications will provide a safer operating environment for the personnel by ensuring the vehicle can carry the soldier’s required equipment list and remain within the vehicle’s axle load limit specification. This modification instruction details the removal of existing vehicle components and installation of new MRP components.

3. Associated Publications. Reference may be necessary to the latest issue of the following documents:
   c. ESCM, Volume 6 – Manage Repairable Items;
   d. EMEI Vehicle G 137-5, Truck, Surveillance, Lightweight, Winch, MC2 – Land Rover 110 – Fitting of Safety Improvement Kit - Modification Instruction;
   e. EMEI Workshop D 701, Painting of Army Equipment, Repair Policy for Equipment Painted in Polyurethane Paint;
   f. EMEI Vehicle G 104-1, Truck, Utility, Lightweight and Truck Utility Lightweight, Winch, MC2 – Land Rover 110 4X4 - Medium Grade Repair;
   g. AS1554.1, Structural Steel Welding Code – Part 1: Welding of Steel Structures;
   h. AS1796, Certification of Welders and Welding Supervisors;
   i. Specification ARMY(AUST) 6828, Paint System (CARC DPP);
   j. Repair Parts Scale 02188, Truck, Utility, Lightweight, MC2, 4x4, 1 Tonne, 3.9 Litre Diesel Engine, Manual Transmission, 12V, Land Rover Model 110 (Base Scale); and
   k. Repair Parts Scale 02207, Truck, Surveillance, Land Rover 110, Isuzu Diesel Engine, 4x4, MC2, w/winch (Supplement to Repair Parts Scale 02188).

4. Authority. The Engineering Change Order (ECO) for this modification is TBA.

GENERAL

5. Modification Application. This modification is to be applied only to the RFSV as directed.

6. Items Affected. This modification alters the RFSV cargo tray by way of welding tapping plates to the coaming rail for attachment of the Side Basket Stowage System.

7. Priority – Group 1. All applicable equipment is to be modified with minimum delay.

8. Action Required. Actions detailed in this instruction are to be performed by an authorised repair agency to carry out Medium or Heavy Grade Repairs. All welding is to comply with AS 1554.1 (General Purpose) Structural Steel Welding Code and Drawing 1000191 (Welding Procedure Specification). All welding tasks are to be carried out by Metalsmith ECN 235 or civilian equivalent holding AS1796 Certificate. All other required work in this modification can be conducted the following base trades and/or their civilian equivalent:
   a. ECN 229 Mechanic Vehicle,
   b. ECN 146 Fitter Armament, and
   c. ECN 418 Technician Electrical.
NOTE

On receipt of this instruction, enter all relevant information other than date completed in the modifications section of the Record Book for Service Equipment (GM 120) and into the MIMS Maintenance Module (MMM).

9. Task Recording. All tasks relating to the modification are to be against MMM standard Job (SJ) 007820.

10. Estimated Work-hours. For initial planning purposes only, it is estimated that this modification will take 15 work-hours to perform.

11. Stores Required. The contractor shall manufacture, store, and distribute the modification kit as required, detailed in Table 1. All stores are to be demanded through normal supply channels. Refer to Table 6 for kit breakdown.

<table>
<thead>
<tr>
<th>Item</th>
<th>Mfr Part No.</th>
<th>NSN</th>
<th>Description</th>
<th>Unit of Issue</th>
<th>Qty per Vehicle</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1000428</td>
<td>66-157-7652</td>
<td>Kit, Mass Reduction</td>
<td>each</td>
<td>1</td>
</tr>
</tbody>
</table>

12. Bulk Consumables Required. The bulk consumable items required are listed in Table 2. These items are not included in the kit and are to be purchased by the contractor completing the modification.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Qty per Vehicle</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Corrosion Inhibitor - Motospray Fish Oil</td>
<td>Approx. 100 ml</td>
</tr>
<tr>
<td>2</td>
<td>Sprayable Sealant - Sikaflex 529</td>
<td>Approx. 50 gm</td>
</tr>
<tr>
<td>3</td>
<td>Oil - OEP 220 Winch Oil</td>
<td>Approx. 1600 ml</td>
</tr>
<tr>
<td>4</td>
<td>Thread Sealant-stag Jointing Compound</td>
<td>Approx. 10 gm</td>
</tr>
<tr>
<td>5</td>
<td>Rivet, Blind, Monel, Dome Head, 1/8&quot; Shank Diameter</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>Grease – Castrol APX T Grease</td>
<td>Approx. 10 gm</td>
</tr>
<tr>
<td>7</td>
<td>Anti-slip Coating – Abasco Fused Brown Aluminium Oxide #24</td>
<td>Approx. 20 gm</td>
</tr>
<tr>
<td>8</td>
<td>Galvanising Paint – Galmet Cold Galvanizing Zinc Rich Coating</td>
<td>Approx. 100 ml</td>
</tr>
<tr>
<td>9</td>
<td>Cable Tie – 250 mm long x 4.8 mm wide</td>
<td>3</td>
</tr>
<tr>
<td>10</td>
<td>Cable Tie – 140 mm long x 3.6 mm wide</td>
<td>7</td>
</tr>
</tbody>
</table>

13. Stores to be Returned or Discarded. Stores to be returned to the Commonwealth of Australia and the stores to be discarded are listed in Table 8 and Table 7 respectively. All stores discarded or returned are to be processed in accordance with the Electronic Supply Chain Manual (ESCM), Volume 4, Section 3, Chapter 5, Return of Stores and ESCM, Volume 4, Section 7, Disposals. All parts are identified in accordance with their description in the relevant Repair Parts Scale (RPS).

14. Drawings Required. Technical drawings are required for fitment of the RFSV Mass Reduction Program components. These drawings are listed in Table 3.
### Table 3  Technical Drawings

<table>
<thead>
<tr>
<th>Item</th>
<th>Drawing No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1000383</td>
<td>Kit, Brushguard Assembly</td>
</tr>
<tr>
<td>2</td>
<td>1000384</td>
<td>Kit, Side Stowage Basket Assembly</td>
</tr>
<tr>
<td>3</td>
<td>1000385</td>
<td>Kit, Sparewheel Rear Carrier Assembly</td>
</tr>
<tr>
<td>4</td>
<td>1000268</td>
<td>Rivet Avinox Ø4.8, Stainless Steel</td>
</tr>
<tr>
<td>5</td>
<td>1000270</td>
<td>Rivet Avinox Ø4.8, Stainless Steel</td>
</tr>
<tr>
<td>6</td>
<td>1000191</td>
<td>Specification, Welding Procedure</td>
</tr>
<tr>
<td>7</td>
<td>1000426</td>
<td>Jig, Side Stowage Basket</td>
</tr>
<tr>
<td>8</td>
<td>1000346</td>
<td>Rivet, Ø6.4 Aluminium</td>
</tr>
<tr>
<td>9</td>
<td>1000431</td>
<td>Rivet Cherry Ø4.8, Aluminium Grip Range 4.8-12.7</td>
</tr>
<tr>
<td>10</td>
<td>1000427</td>
<td>Template, Load Capacity Label</td>
</tr>
</tbody>
</table>

### 15. Special Equipment Required.

Shown in Table 5 is the special equipment required to complete this modification. Equivalent equipment may be used in place of that listed in Table 5.

### Table 4  Special Equipment

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Model No.</th>
<th>Supplier</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Rivet Applicator</td>
<td>Hydro-pneumatic Power Riveter</td>
<td>Textron Fastening Systems</td>
</tr>
<tr>
<td></td>
<td>Model – Genesis G4</td>
<td>Model – F12293</td>
<td>Sika</td>
</tr>
<tr>
<td>2</td>
<td>Sealant Applicator</td>
<td>Sika Jet-flow Gun</td>
<td>General Suppliers</td>
</tr>
<tr>
<td></td>
<td>Model – F12293</td>
<td>Model A/206</td>
<td></td>
</tr>
</tbody>
</table>

### DETAIL

### 16. Manufacture of Jigs.

Shown in Table 5 is the jig required to complete this installation. The Jig, Side Stowage Basket is to be manufactured by the contractor completing this modification.

### Table 5  Jig Manufacture

<table>
<thead>
<tr>
<th>Item</th>
<th>Drawing No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1000426</td>
<td>Jig, Side Stowage Basket</td>
</tr>
</tbody>
</table>

### GENERAL INSTALLATION AND SAFETY NOTES

### 17. 

This section outlines important installation and safety notes that must be adhered to while installing the Kit, Mass Reduction.

- Each section of this Modification Instruction refers to particular assembly drawings. These drawings are listed in Table 9. Images have also been included to aid the installation process.

- Protection of the vehicle from grinding and welding residue is required at all times. In particular all glass, vehicle trim, instruments, seatbelts and restraint webbing are to receive close attention.

- During removal of existing rivets, the mandrel remains must be punched out using a suitable pin punch prior to drilling the rivet body out. This is to minimise hole enlargement in the body panels.

- Prior to installation of kit components it is important to ensure that all mounting surfaces are clean and free of burrs.
There are certain safety precautions that must be adhered to when cutting and grinding components that have been finished in Polyurethane Paint. These precautions are outlined in EMEI Workshop D 701, Painting of Army Equipment, Repair Policy for Equipment Painted in Polyurethane Paint, and must be adhered to.

Vehicle Preparation

18. This section describes the procedure for removal of equipment from the RFSV prior to installation of the Kit, Mass Reduction. The equipment removed should be stored for fitment after completion of the modification. An unmodified RFSV is shown in Figure 1.

NOTE

Camouflage canopy not fitted.

Figure 1 Unmodified RFSV

a. Remove the Frame Assembly, Camouflage Net Stowage Complete (Figure 2, Item 1) and store for refitting after modification.
b. Remove the Cover, Fitted, Vehicular Body Camouflaged (if fitted) from the rear of the vehicle and store for refitting after modification.

c. Remove the Tube, Hoodstick (Figure 2, Item 2) and the Strap, Tool Box Lid (Figure 2, Item 3) from the left and right side of the vehicle and store for refitting after modification.

d. Remove the Bow, Vehicular Top Rear Roll Cage (Figure 2, Item 4) from the rear of the vehicle and store for refitting after modification.

e. Remove all equipment from the Bin Assembly, Cargo Tray LH, Complete (Figure 2, Item 5) and Bin Assembly, Cargo Tray RH, Complete (Figure 2, Item 6) and store for refitting after modification.

f. Remove all equipment from the rear left Stowage-Bin (Figure 2, Item 7) and store for refitting after modification.

g. Remove all equipment from the front right Stowage-Bin and store for refitting after modification.

h. Remove all equipment from the rear right Stowage-Bin and store for refitting after modification.

i. Remove spare tyres and store for refitting after modification.

Removal of Vehicle Batteries

19. This section describes the removal of the start and auxiliary batteries from the chassis area of the RFSV.

a. Slide out the battery tray and disconnect the battery leads from the battery terminals. The RFSV batteries are located in the front left compartment of the cargo tray body as shown in Figure 3.
To prevent damage to electrical system it is important to disconnect the negative battery cables from both batteries first. After the negative cables have been disconnected, the positive battery cables may be disconnected.

![Figure 3 Location of RFSV Batteries](image)

**b.** Remove batteries and maximise battery performance through an approved charging programme.

20. **Removal of Spare Wheel Mounting Assemblies.** This section describes the removal of the existing lower supports for the left and right Spare Wheel Mounting Assembly from the RFSV. An unmodified RFSV is shown in Figure 4.

![Figure 4 Unmodified RFSV](image)

**a.** Remove the Lower Tube Assembly, Left Hand (Figure 5, Item 21) from the RFSV. Return the Lower Tube Assembly, Left Hand to the Commonwealth of Australia. Refer to Table 8 for return part numbers. Discard attachment hardware.
Figure 5  Removal of Spare Wheel Mounting Assemblies

b.  Remove the Lower Tube Assembly, Right Hand (Figure 5, Item 28) from the RFSV. Return the Lower Tube Assembly, Right Hand to the Commonwealth of Australia. Refer to Table 8 for return part numbers. Discard attachment hardware.

Removal of Sideguards

21.  This section describes the removal of the existing RFSV Side Bar-brushguards from the RFSV. An unmodified RFSV is shown Figure 6.

Figure 6  Unmodified RFSV

a.  Remove the right Side Bar-brushguard (Figure 7, Item 1) and attachment hardware from the RFSV. Return the Side Bar-brushguard to the Commonwealth of Australia. Refer to Table 8 for return part numbers. Discard attachment hardware.
Figure 7  Removal of Side Bar-brushguard

b. Remove the right side Plate, Stud Steel (Figure 7, Item 16) and retain for refitting after completion of modification. For storage part numbers refer to RPS 02207, Reference Group RB. Discard remaining attachment hardware.

c. Remove the left Side Bar-brushguard (Figure 7, Item 3) and attachment hardware from the RFSV. Return the Side Bar-brushguard to the Commonwealth of Australia. Refer to Table 8 for return part numbers. Discard attachment hardware.

d. Remove the left side Plate, Stud Steel (Figure 7, Item 16) and retain for refitting after completion of modification. For storage part numbers refer to RPS 02207, Reference Group RB. Discard remaining attachment hardware.

Removal of Winch and Roller Mounting Assembly

22. This section describes the removal of the Winch and Roller Mounting Assembly from the RFSV. Shown in Figure 8 is the Winch and Roller Mounting Assembly to be removed from the RFSV.

Figure 8  Winch and Roller Mounting Assembly
a. Remove the Winch Assembly Oil Drain Plug and drain the oil from the Winch Assembly Housing. Location of Oil Drain Plug is under the left side of the Winch Assembly as shown in Figure 9. Dispose of oil in accordance with an environmentally compliant process.

NOTE
Draining of oil is required as the front attachment bolts (Figure 10, Item 5) for the Assembly, Winch and Roller Mounting protrude into the oil reservoir of the Winch Assembly Housing.

b. Remove hardware attaching the Assembly, Winch and Roller Mounting (Figure 10, Item 15) to the Winch Assembly. Retain hardware for refitting after completion of modification.

NOTE
Complete disassembly of unit is not required. Only remove Items 5, 6, 7, 16, 17 and 18.
c. Remove the Assembly, Winch and Roller Mounting from the Winch Assembly.

d. Remove the upper Shaft, Roller Fairlead, Longitudinal (Figure 10, Item 19) and the upper Roller Assembly, Fairlead Horizontal (Figure 10, Item 9) from the Assembly, Winch and Roller Mounting.

NOTE
Complete disassembly of unit is not required. Only remove Items 9, 11, 12 and 19 for the upper Roller Assembly, Fairlead Horizontal.

e. Remove the Hook, Grab, Swivel (Figure 11, Item 1) from the Assembly, Winch and Roller Mounting.

![Figure 11 Swivel Grab Hook](image)

f. Remove the Assembly, Winch and Roller Mounting and store for refitting after completion of modification.

g. Thoroughly clean attachment hardware (Figure 10, Item 5) and re-insert into the winch assembly to prevent entry of foreign matter into the oil reservoir.

h. Loosen hardware (Figure 12) retaining the Winch Assembly in position when the Brushguard Assembly, and the Assembly, Winch and Roller Mounting is removed.

NOTE
This is to allow correct alignment between the Assembly, Winch and Roller Mounting and the Winch Assembly during the re-installation procedure. Do not remove this hardware.

![Figure 12 Winch Assembly Retaining Hardware](image)

Removal of Brushguard Assembly

23. This section describes the removal of the existing Brushguard Assembly from the RFSV. An unmodified RFSV is shown in Figure 13.
Figure 13  Unmodified RFSV

a. Remove the left and right Light, Driving, Long Range, Sealed (Figure 14, Item 1) from the Brushguard. Retain Light, Driving, Long Range, Sealed and attachment hardware and store for refitting after completion of modification. For storage part numbers refer to RPS 02207, Reference Group QJJ.

NOTE

Complete disassembly of unit is not required. Only remove Items 7, 8, 9, 10, 11 and 12.

Figure 14  Disassembled Light, Driving, Long Range Sealed

b. Remove Wiring Harness, Driving Lights (RPS 02207, Group QC/2, Item 31) from the Brushguard.

NOTE

Do not completely remove the Wiring Harness, Driving Lights from the vehicle as it will be refitted to the new Brushguard Assembly.
c. Remove hardware to allow removal of the Brushguard Assembly (Figure 15, Item 2). Return the Brushguard Assembly to the Commonwealth of Australia. Refer to Table 8 for return part numbers. Retain attachment hardware for refitting after completion of modification.

Figure 15  Removal of Brushguard Assembly

Removal of Left Jerrican Stowage Assembly

24. This section describes the removal of the rear left Jerrican Stowage Assembly from the RFSV. An unmodified RFSV is shown in Figure 16.

Figure 16  Unmodified RFSV

a. Remove the Clamp Assembly, Jerrican Holder (Figure 17, Item 12) and attachment hardware from the RFSV. Return the Clamp Assembly, Jerrican Holder to the Commonwealth of Australia. Refer to Table 8 for return part numbers. Discard attachment hardware.
Figure 17  Disassembled Left Jerrican Stowage Assembly

b. Remove the Bracket, Pivot U Shape (Figure 17, Item 2) and attachment hardware from the rear of the cargo tray. Return the Bracket, Pivot U Shape to the Commonwealth of Australia. Refer to Table 8 for return part numbers. Discard attachment hardware.

c. Remove the Rubber Strip Abutment (Figure 17, Item 27) and attachment hardware from the RFSV. Return the Rubber Strip Abutment to the Commonwealth of Australia. Refer to Table 8 for return part numbers. Discard attachment hardware.

d. Remove the left Stop Light-tail Light, Vehicular (Figure 18, Item 1) from the RFSV to allow access to the Jerrican Stowage Assembly lower attachment hardware. Retain the Stop Light-tail Light, Vehicular and attachment hardware for refitting after completion of modification. For storage part numbers refer to Refer to RPS 02188, Group QJB.

NOTE

Complete disassembly of the unit is not required. Only remove Items 2, 3 and 4.
Figure 18  Disassembled Stop Light-tail Light, Vehicular

e. Remove the Mounting Point, Hi-Lift Jack, LH (Figure 17, Item 22) from the RFSV chassis. Retain the Mounting Point, Hi-Lift Jack, LH and attachment hardware for refitting after completion of modification. For storage part numbers refer to RPS 02207, Group RE/1.

f. Remove the Holder Assembly, Jerrican-LH (Figure 17, Item 19) from the rear of the chassis. Return the Holder Assembly, Jerrican-LH to the Commonwealth of Australia. Refer to Table 8 for return part numbers. Discard attachment hardware.

Removal of Rear Registration Plate

25. This section describes the removal of the rear registration plate and Wiring Harness Number Plate Lamp from the RFSV. An unmodified RFSV is shown in Figure 19.

Figure 19  Unmodified RFSV

a. Remove the retaining rivets securing the RFSV registration plate to the rear cargo body and retain registration plate for refitting after completion of the modification.

b. Remove the Cover (Figure 20, Item 9) from the Light, Utility, Vehicular (Figure 20, Item 1) and the retaining screws attaching the Light, Utility, Vehicular to the cargo body. For storage part numbers refer to RPS 02188, Group QJG.
Figure 20  Disassembled Light, Utility, Vehicular

NOTE
Complete disassembly of the unit is not required. Only remove Items 2, 3, 4, 10 and 11.

c. Disconnect the Wiring Harness Number Plate Lamp (RPS 02188, Group QL, Item 17) from the wiring harness of the Light, Utility, Vehicular.

d. Remove the Wiring Harness Number Plate Lamp back to the where it breaks out from the Harness Assembly, Main Chassis (RPS 02188, Group QL, Item 5).

NOTE
The break out for the Wiring Harness Number Plate Lamp is located above the right Shield, Rear-harness (RPS 02118, Group RA, Item 6).

e. Cut the Wiring Harness Number Plate Lamp back at the break out from the Harness Assembly, Main Chassis ensuring to leave enough wire length (100 mm) to crimp on new connectors. Discard the Wiring Harness Number Plate Lamp.

NOTE
Due to the condition of the existing Wiring Harness Number Plate Lamp and that additional length is required a new Wiring Harness Number Plate Lamp has been provided with this installation kit. The new Wiring Harness Number Plate Lamp will be installed later in the modification.

f. Remove the retaining rivets securing the left Formation sign to the rear cargo body and return to the Commonwealth of Australia.

Removal of Rear View Mirrors

26. This section describes the removal of existing exterior rear view mirrors from the RFSV.

a. Remove the Mirror Head, Vehicular Left Hand (Figure 21, Item 11) from the Arm, Rear View Mirror (Figure 21, Item 10) and store for refitting after modification. Refer to RPS 02188, Group SB for storage part numbers.

NOTE
Figure 21 depicts the typical assembly details for the right side (passenger side) of the vehicle. Details for the left side (driver’s side) is opposite.
b. Remove the Screw, Machine (Figure 21, Item 9) two-off attaching the Hinge, Door Vehicular Front Door, Upper, Left Hand (Figure 21, Item 7) to the Door, Access, Vehicular, Front, Left Hand (RPS 02188, Group SB, Item 013).

Ensure the Door, Access, Vehicular, Front, Left Hand is supported while the attachment hardware is removed otherwise damage may result.

c. Remove the Arm, Rear View Mirror (Figure 21, Item 10) from the Hinge, Door Vehicular Front Door, Upper, Left Hand. Return the Arm, Rear View Mirror to the Commonwealth of Australia.

d. Re-install hardware (Item 9) to secure the Hinge to the Door.

e. Repeat steps a) through d) for the removal of the Arm, Rear View Mirror from the right side of the vehicle.

Preparation for Installation of Spare Wheel Carrier

27. This section describes the preparation required prior to installation of the Kit, Spare Wheel Rear Carrier Assembly, including positioning and welding of the Plate, Spare Wheel Carrier Rear Chassis Mounting to the rear left tie down-slinging hook arm housing. Refer to Assembly Drawings as indicated in Enclosure A for details.

a. Loosely assemble the Plate, Spare Wheel Carrier Rear Chassis Mounting (Assembly Drawing 1000385, Sheet 1, Item 5) to the underside of the Carrier Assembly, Spare Wheel Rear, Complete (Assembly Drawing 1000385, Sheet 1, Item 3) using hardware as shown on (Assembly Drawing 1000385, Sheet 3, Section A-A). This is also shown in Figure 22.

NOTE
This is a temporary installation only.
Figure 22  Spare Wheel Carrier Rear Chassis Mounting Plate

b. Position the Angle, Spare Wheel Rear Carrier Front Upper Mounting (Refer Figure 23) centrally in the slots on the Carrier Assembly, Spare Wheel Rear, Complete. Tighten hardware to secure in place.

NOTE
This is a temporary installation only.

Figure 23  Spare Wheel Rear Carrier Font Upper Mounting Angle

c. Locate the Carrier Assembly, Spare Wheel Rear, Complete onto the rear chassis cross-member of the RFSV.

d. Position the Carrier Assembly, Spare Wheel Rear, Complete inboard and up against the rear cargo body.

e. Assemble hardware through the upper mounting holes as shown in Assembly Drawing 1000385, Sheet 3, Section A-A and Figure 24.

NOTE
The upper mounting holes are existing in the rear panel of the cargo, provided by the removal of the Bracket, Pivot U Shape (Figure 17, Item 2).
f. Assemble hardware through the side mounting holes as shown in Assembly Drawing 1000385, Sheet 3, Section C-C and Figure 25 and tighten to hold position of the Carrier Assembly, Spare Wheel Rear, Complete.

NOTE
This is a temporary installation only, the Mounting Point, Hi-lift Jack; LH is not required to be installed.

g. Locate the Plate, Spare Wheel Carrier Rear Chassis Mounting against the tie down-slinging hook as shown in Figure 26, and tighten hardware to hold the position as set by the Carrier Assembly, Spare Wheel, Complete.
h. Tack weld into position.

NOTE
Take precaution to protect the paintwork on the Carrier Assembly, Spare Wheel Rear, Complete during the tack welding process.

i. Using the Carrier Assembly, Spare Wheel Rear, Complete as a template, site drill the two hardware holes with a 10 mm drill bit as shown in Figure 27.

j. Remove the Carrier Assembly, Spare Wheel Rear, Complete and complete welding for the Plate, Spare Wheel Carrier Rear Chassis Mounting according to Assembly Drawing 1000385, Sheet 2, View A.

k. Apply galvanising paint (Refer Table 2, Item 8) to the weld affected area on the tie down-slinging hook housing. Allow galvanising paint to dry.

l. Apply sprayable sealant (refer Table 2, Item 2) to the gap between the Plate, Spare Wheel Carrier Rear Chassis Mounting and the tie down-slinging hook housing as indicated in Figure 28.
**Figure 28  Location for Sealant Application**

m. Insert Rivet, Ø6.4 Aluminium (Assembly Drawing 1000385, Sheet 1, Item 18) into the existing rivet holes where the RFSV registration plate and left formation sign were attached as shown in Assembly Drawing 1000385, Sheet 2, View B.

n. Insert the Grommet, Rubber Blank, ID 15.9 x 1.6 Panel Thickness (Assembly Drawing 1000385, Sheet 1, Item 16) into the existing RFSV registration plate harness panel hole as shown in Assembly Drawing 1000385, Sheet 2, View B.

**Preparation for Installation of Side Basket Stowage System**

**28.** This section describes the preparation required prior to installation of the Side Basket Stowage System, which includes welding of the front and rear Plate, Foot, Side Stowage Basket Upper to the coaming rail of the cargo body. Refer to Assembly Drawings as indicated in Enclosure A for details.

a. Remove existing paint from the area shown in Figure 29 at the front left of the coaming rail. Finish the surface with a sanding disk to ensure a smooth transition from bare metal surface to painted surface.

**CAUTION**

Ensure all areas not undergoing surface treatment are correctly protected to minimise damage.
b. Remove paint from the area shown in Figure 30 at the rear left of the coaming rail. Existing paint should be removed completely up to the bin edge. Finish the surface with a sanding disk to ensure a smooth transition from bare metal surface to painted surface.

Ensure all areas not undergoing surface treatment are correctly protected to minimise damage.

c. Locate the Jig, Side Stowage Basket (Drawing 1000426) to the side of the RFSV and insert the Plate, Foot, Side Stowage Basket Upper (Assembly Drawing 1000384, Sheet 1, Item 3) two-off to the Jig, Side Stowage Basket. The setup is shown in Figure 31.

NOTE

The Jig, Side Stowage Basket is to be manufactured by the contractor undertaking this modification in accordance with Drawing 1000426.
d. Locate the Jig, Side Stowage Basket to achieve the dimension of 217 mm from the rear edge of the cargo body to the hole centre of the Plate, Foot, Side Stowage Basket Upper as shown in Assembly Drawing 1000384, Sheet 2, View A.

**NOTE**

Ensure the lower part of the Jig, Side Stowage Basket is located against the cargo tray body panel. Suitable clamps may be used to hold the position.

e. Mark the centre of the upper hardware hole of each Plate, Foot, Side Stowage Basket Upper onto the coaming rail and then remove from the Jig, Side Stowage Basket. The front upper hardware hole is shown in Figure 32.

f. Drill a clearance hole using a 14 mm diameter drill.

g. Reinstall each Plate, Foot, Side Stowage Basket Upper to the Jig, Side Stowage Basket and tack weld into position on the coaming rail.
Protect the paint on the surrounding area from weld spatter during the tack welding process.

h. With the Jig, Side Stowage Basket in place, and using it as a template, mark the centres of the five 4.9 mm holes onto the cargo body side panel as indicated in Figure 33.

NOTE

The 4.9 mm hole centres are required to be accurately marked as there is no oversizing of the rivet attachment holes to be made.

i. Remove the Jig, Side Stowage Basket and drill out the four outer holes using a 4.9 mm diameter drill.

j. Drill out the centre hole using a 20 mm diameter drill.

NOTE

The centre hole provides clearance for the nut in the Plate Assembly, Foot, Side Stowage Basket Lower.

k. Complete welding for each Plate, Foot, Side Stowage Basket Upper according to Assembly Drawing 1000384, Sheet 2, Detail F.

l. Repeat steps a) through k) for installation of the Plate, Foot, Side Stowage Basket Upper (Assembly Drawing 1000384, Sheet 1, Item 3) two-off, and drilling of the attachment holes for the Plate Assembly, Foot, Side Stowage Basket Lower to the right side of the cargo body panel.

m. Install the Plate Assembly, Foot, Side Stowage Basket Lower (Assembly Drawing 1000384, Sheet 1, Item 4) two-off to the left side of the cargo body in accordance with Assembly Drawing 1000384, Sheet 2, Section A-A. Shown in Figure 34 is the completed installation.
Repeat previous step for installation of the Plate Assembly, Foot, Side Stowage Basket Lower two-off to the right side of the cargo body panel.

The above steps complete the installation of the Plate, Foot, Side Stowage Basket Upper and the Plate Assembly, Foot, Side Stowage Basket Lower to the cargo body.

**NOTE**

The Basket Assembly, Side Stowage LH, Complete and the Basket Assembly, Side Stowage RH, Complete will be installed after the cargo body has been painted.

**RFSV Camouflage Painting – Spare Wheel Carrier Installation**

29. This section describes the preparation and painting of the cargo tray and Carrier Assembly, Spare Wheel Rear, Complete in camouflage colours prior to final installation. The Carrier Assembly, Spare Wheel Rear, Complete is supplied in the kit finished in two coats of NIRR Camouflage Brown. As part of this Modification Instruction the assembly is to have the final coat of NIRR Camouflage Green and NIRR Camouflage Black.

a. Prepare the cargo tray exterior by sanding away paint blemishes caused during preparation for installation of the Kit, Spare Wheel Rear Carrier Assembly (Assembly Drawing 1000385, Sheet 1).

b. Prime the rear exterior cargo tray panel, the rear chassis cross-member and the rear left tie down-slinging hook to Specification ARMY(AUST) 6828.

c. Paint locations mentioned at b) in accordance with the original paint pattern (Refer Figure 35) using Specification ARMY(AUST) 6828.

**NOTE**

ARMY(AUST) 6828 requires paint colour to be applied in the following order; NIRR Camouflage Brown, NIRR Camouflage Green and then NIRR Camouflage Black. See Specification ARMY(AUST) 6828 for further details.
See General Installation and Safety Note section regarding polyurethane paint.

**Figure 35  Original Paint Pattern**

**RFSV Camouflage Painting – Side Basket Stowage System Installation**

30. This section describes the preparation and painting of the cargo tray in camouflage colours prior to final installation of the Side Basket Stowage System. The side baskets are supplied in the kit finished in two coats of NIRR Camouflage Brown. As part of this Modification Instruction the side baskets are to have the final coat of NIRR Camouflage Green and NIRR Camouflage Black.

   a. Prepare the cargo tray exterior by sanding away paint blemishes caused during preparation for installation of the Kit, Side Basket Stowage Assembly (Assembly Drawing 1000384, Sheet 1).

   b. Prime the left and right side exterior cargo tray panel and the top of the coaming rail in accordance with Specification ARMY(AUST) 6828.

   c. Paint locations mentioned at b) in accordance with the original paint pattern (Refer Figure 36) using Specification ARMY(AUST) 6828.

**NOTE**

ARMY(AUST) 6828 requires paint colour to be applied in the following order; NIRR Camouflage Brown, NIRR Camouflage Green and then NIRR Camouflage Black. See Specification ARMY(AUST) 6828 for further details.
See General Installation and Safety Note section regarding polyurethane paint.

**Figure 36**   Original Camouflage Pattern

d. Steps d) through f) involve the application of a corrosion inhibitor between the cargo tray coaming rail and the Plate, Foot, Side Stowage Basket Upper using an air assisted under body coating gun such as the one shown below in Figure 37. The details for this are shown in Table 4, Item 2.

**Figure 37**   Air Assisted Under Body Coating Gun

e. The air assisted under body coating gun shown in Figure 37 has a special nozzle for application of corrosion inhibitor at 90 degrees to the applicator tube. A close up of the nozzle is shown in Figure 38.
f. Using the air assisted under body coating gun, apply Fish Oil through the hardware mounting holes to the cavity between the coaming rail surface and the Plate, Foot, Side Stowage Basket Upper. This is shown in Figure 39.

Camouflage Painting – Kit Components

31. This section describes the painting of the Kit, Mass Reduction components in camouflage colours prior to final installation to the RFSV. With the exception of the Land Rover 6x6 mirror arm components, all components supplied in the kit are finished in two coats of NIRR Camouflage Brown. Prior to final installation they require final camouflage painting in NIRR Camouflage Green and NIRR Camouflage Black as required to match the RFSV’s camouflage pattern.

NOTE

ARMY(AUST) 6828 requires paint colour to be applied in the following order; NIRR Camouflage Brown, NIRR Camouflage Green and then NIRR Camouflage Black. See Specification ARMY(AUST) 6828 for further details.
a. Mark the camouflage paint pattern applied to the RFSV onto the Carrier Assembly, Spare Wheel Rear, Complete.

b. Apply camouflage paint to the Carrier Assembly, Spare Wheel, Complete in accordance with Specification ARMY(AUST) 6828.

c. Mark the camouflage paint pattern applied to the RFSV onto the Basket Assembly, Side Stowage LH and Basket Assembly, Side Stowage RH.

d. Apply camouflage paint to the Basket Assembly, Side Stowage LH and Basket Assembly, Side Stowage RH in accordance with Specification ARMY(AUST) 6828.

NOTE

Each assembly is supplied in the Kit, Mass Reduction with rubber buffer strips pre-assembled. Each rubber buffer strip is to be masked prior to camouflage painting.

e. Using template 1000427, apply the signage to the Basket Assembly, Side Stowage LH and Basket Assembly, Side Stowage RH using NIRR Camouflage Black as shown on Assembly Drawing 1000384, Sheet 4, View C and View D.

NOTE

The signage in the template is to be positioned centrally on the side surface of each basket.

f. Mark the camouflage paint pattern applied to the RFSV onto the Brushguard Assembly, Complete.

g. Apply camouflage paint to the Brushguard Assembly, Complete in accordance with Specification ARMY(AUST) 6828.

h. Mark the camouflage paint pattern applied to the RFSV onto the Bar Assembly, Side Brushguard LH and Bar Assembly, Side Brushguard RH.

i. Apply camouflage paint to the Bar Assembly, Side Brushguard LH and Bar Assembly, Side Brushguard RH in accordance with Specification ARMY(AUST) 6828.

Anti-slip Coating Application

32. This section describes the procedure for applying the anti-slip coating to the top of the rear cargo tray panel. This procedure is required to be performed after preparation and painting for the Spare Wheel Carrier has been performed (See Section 27).

a. Apply one coat of NIRR Camouflage Green in accordance with Specification ARMY(AUST) 6828 to the top of the rear cargo tray panel area.

b. With paint still wet from step a) apply anti-slip coating (refer Table 2, Item 7) to the top of the tray panel for the entire length of the panel. Allow paint to dry for recommended curing time.

c. Apply one final coat of NIRR Camouflage Green to completely cover the anti-slip coating. A completed application is shown in Figure 40. A close-up view of the anti-slip coating is shown in Figure 41.
See General Installation and Safety Note section regarding polyurethane paint.

Figure 40  Application of Anti-slip Coating

Figure 41  Anti-slip Coating Application (close-up view)

Installation of Spare Wheel Carrier

33. This section describes the installation of the Kit, Spare Wheel Rear Carrier Assembly to the RFSV. Refer to Assembly Drawings as indicated in Enclosure A for details.

a. Position the Carrier Assembly, Spare Wheel Rear, Complete (Assembly Drawing 1000385, Sheet 1, Item 3) onto the rear chassis cross-member.

b. Position the Mounting Point, Hi-Lift Jack, LH (removed in Section 22) onto the left end of the chassis and attach in accordance with Assembly Drawing 1000385, Sheet 3, Section C-C. This installation is also shown in Figure 42.

NOTE

Do not tighten hardware.
Figure 42  Mounting Point, Hi-lift Jack, LH Installation

c. Position the Reinforcement, Spare Wheel Rear Carrier Tray (Assembly Drawing 1000385, Sheet 1, Item 4) to the interior side of the rear cargo body panel as shown in Figure 43.

Figure 43  Reinforcement, Spare Wheel Rear Carrier Tray Location

d. Install hardware to attach the Carrier Assembly, Spare Wheel Rear, Complete to the rear cargo body panel in accordance with Assembly Drawing 1000385, Sheet 3 Section A-A. A completed installation is shown in Figure 44.
e. Ensure hardware from the previous step is used to attach the Reinforcement, Spare Wheel Rear Carrier Tray as shown in Figure 45. Do not tighten hardware at this step.

f. Using the Carrier Assembly, Spare Wheel Rear, Complete as a template, site drill, using a 12 mm drill, the hardware hole for attachment to the Blackout Lamp Protector/Rear Step Tread Plate as shown in Figure 46.
Take caution to ensure the Blackout Lamp is not damaged during the drilling process.

Figure 46  Hardware Hole Site Drilling

g. Install hardware to attach the Carrier Assembly, Spare Wheel Rear, Complete to the rear Blackout Lamp Protector/Rear Step Tread Plate in accordance with Assembly Drawing 1000385, Sheet 2, Section B-B. The completed installation is shown in Figure 47.

Figure 47  Carrier Assembly, Spare Wheel Rear, Complete Hardware

h. Install hardware to attach the Carrier Assembly, Spare Wheel Rear, Complete to the Plate, Spare Wheel Carrier Rear Chassis Mounting (Assembly Drawing 1000385, Sheet 1, Item 5) in accordance with Assembly Drawing 1000385, Sheet 3, Section A-A. A completed installation is shown in Figure 48.
The following steps provides instructions for aligning the Carrier Assembly, Spare Wheel Rear, Complete to the rear cargo body panel.

**NOTE**

Due to the condition of each RFSV the Carrier Assembly, Spare Wheel Rear, Complete may not locate squarely onto the rear chassis bumper. An alignment procedure is required to be followed to ensure correct mounting. This is described in the following steps.

**j.** Standing at the rear of the RFSV looking towards the front align the most outboard part of the Carrier Assembly, Spare Wheel Rear, Complete to the outline of the left side cargo body panel. The Carrier Assembly, Spare Wheel Rear, Complete may be rotated inboard or outboard to achieve alignment. An example of what is required is shown in Figure 49.

**k.** Should the top of the Carrier Assembly, Spare Wheel Rear, Complete require rotating towards the outboard position insert a flat washer (ID 8.4 x OD 16 x 1.6 thk) between the Carrier Assembly, Spare Wheel Rear, Complete and the Blackout Lamp Protector/Rear Step Tread Plate to hold the desired position as indicated in Figure 50.
NOTE

Some installations may require more than one flat washer. These are not supplied in the Kit, Spare Wheel Rear Carrier Assembly.

![Alignment Washer Location](image)

**Figure 50  Alignment Washer Location**

1. Once the desired position is achieved, the hardware attaching the Carrier Assembly, Spare Wheel Rear, Complete to the Blackout Lamp Protector/Rear Step Tread Plate can be tightened to the torque setting shown on assembly Drawing 1000385.

m. Tighten the hardware attaching the Carrier Assembly, Spare Wheel Rear, Complete to the Plate, Spare Wheel Carrier Rear Chassis Mounting to the torque setting shown on Assembly Drawing 1000385.

n. Tighten the hardware attaching the Carrier Assembly, Spare Wheel Rear, Complete to the rear cargo body panel to the torque setting shown on assembly Drawing 1000385.

o. Tighten the hardware attaching the Carrier Assembly, Spare Wheel Rear, Complete and the Mounting Point, Hi-lift Jack, LH to the rear chassis cross-member to the torque setting shown on assembly Drawing 1000385.

p. Prepare and paint all unpainted hardware in the appropriate camouflage colours in accordance with Specification ARMY(AUST) 6828.

**CAUTION**

See General Installation and Safety Note section regarding polyurethane paint.

**Installation of Registration Plate Extension Harness**

34. This section describes the routing of the Harness, Extension, Registration Plate Light to the RFSV.

a. Route the Harness, Extension, Registration Plate Light (Assembly Drawing 1000385, Sheet 1, Item 6) through the hole in the rear of the Carrier Assembly, Spare Wheel Rear, Complete as indicated in Figure 51.
Figure 51  Access Hole for Harness

b. Connect electrical female bullet connectors of the Harness, Extension, Registration Plate Light to the wiring harness of the Light, Utility, Vehicular.

c. Assemble the Light, Utility, Vehicular to the Carrier Assembly, Spare Wheel Rear, Complete using existing M5 Hex Head Screw (Refer RPS 02188, Group QJG, Item 11). A completed installation is shown in Figure 52.

Figure 52  Light, Utility, Vehicular Installation

d. Refit the Cover to the Light, Utility, Vehicular.

e. Route the Harness, Extension, Registration Plate Light through the upper channel in Carrier Assembly, Spare Wheel Rear, Complete to the lower channel as shown in Figure 53.
f. Install the Clamp, Cushion Loop ID 6.0 (Assembly Drawing 1000385, Sheet 1, Item 17) to attach the Harness, Extension, Registration Plate Light as shown in Assembly Drawing 1000385, Sheet 3, View C.

g. From the step e) route the Harness, Extension, Registration Plate Light between the tray body and the rear chassis cross-member as shown in Figure 54.

h. From the previous step route the Harness, Extension, Registration Plate Light into the rear chassis cross-member access hole as shown in Figure 55. Use cable ties (Refer Table 2, Item 10 – 2 places) as shown to secure the Harness, Extension, Registration Plate Light to the existing electrical harness.
i. From previous step route the Harness, Extension, Registration Plate Light through the rear chassis cross-member and out the opposite hole in the rear chassis cross-member as shown in Figure 56. Use cable ties (Refer Table 2, Item 10 - 2 places) as shown to secure the Harness, Extension, Registration Plate Light to the existing electrical harness.

j. Bare electrical wires at the break out from the Harness Assembly, Main Chassis and crimp on new female bullet connectors.

**NOTE**

Female bullet connectors are packaged with the Harness, Extension, Registration Plate Light.

k. From previous step route the Harness, Extension, Registration Plate Light and connect to the break out from the Harness Assembly, Main Chassis as shown in Figure 57. Use cable ties (Refer Table 2, Item 10 – 3 places) as shown to secure the Harness, Extension, Registration Plate Light to the existing electrical harness.
l. Refit the Shield, Rear-harness (RPS 02118, Group RA, Item 006) to the underside of the vehicle.

m. Install the RFSV registration plate to the Carrier Assembly, Spare Wheel Rear, Complete using hardware as shown on Assembly Drawing 1000385, Sheet 1, Item 17. The completed installation is shown in Figure 58.

Installation of Spare Wheel Carrier Restraint

35. This section describes the installation of the Strap Assembly, Spare Wheel Rear to the Carrier Assembly, Spare Wheel Rear, Complete. Refer to Assembly Drawings as indicated in Table 3 for details.

a. Remove the two upper footman loops supplied with the Carrier Assembly, Spare Wheel Rear, Complete and install the upper straps of the Strap Assembly, Spare Wheel Rear (Assembly Drawing 1000385, Sheet 1, Item 7) as shown in Assembly Drawing 1000385, Sheet 2, View A. This installation is also shown in Figure 59. Refer to Table 9 for the Footman Loop Webbing Installation Instruction.
b. Remove the lower footman loop supplied with the Carrier Assembly, Spare Wheel Rear, Complete and attach the lower strap of the Strap Assembly, Spare Wheel Rear (Assembly Drawing 1000385, Sheet 1, Item 7) as shown in Assembly Drawing 1000385, Sheet 2, View A. This installation is also shown in Figure 60. Refer to Table 9 for the Footman Loop Webbing Installation Instruction.

NOTE
The other footman loop located in the base of the carrier is for use in the field when only one spare wheel is being stored on the Carrier Assembly, Spare Wheel Rear, Complete.

c. Install the Cable, Locking (Assembly Drawing 1000385, Sheet 1, Item 9) onto the Loop Assembly, Locking Cable Retaining (Assembly Drawing 1000385, Sheet 1, Item 8).

d. Locate the Reinforcement, Footman Loop (Assembly Drawing 1000385, Sheet 1, Item 1) and rivet the Loop Assembly, Locking Cable Retaining to the Carrier Assembly, Spare Wheel Rear, Complete as shown on Assembly Drawing 1000385, Sheet 2, View B. A completed installation is shown in Figure 61.
f. Refit the left Stop Light-tail Light, Vehicular (Figure 18, Item 1) to the RFSV.

g. A completed Kit, Spare Wheel Rear Carrier Assembly installation is shown in Figure 62.

Installation of Side Basket Stowage System

36. This section describes the final installation of the Kit, Side Stowage Basket Assembly. Refer to Assembly Drawings as indicated in Table 3 for details.

a. Locate the Basket Assembly, Side Stowage LH, Complete (Assembly Drawing 1000384, Sheet 1, Item 5) onto the Plate, Foot, Side Stowage Basket Upper (Assembly Drawing 1000384, Sheet 1, Item 3) and install hardware according to Assembly Drawing 1000384, Sheet 2, Section A-A. Torque hardware as instructed on Assembly Drawing 1000384.
b. Install hardware according to Assembly Drawing 1000384, Sheet 2, Section A-A to secure the Basket Assembly, Side Stowage LH, Complete to the Plate Assembly, Foot, Side Stowage Basket Lower (Assembly Drawing 1000384, Sheet 1, Item 4). A completed installation is shown in Figure 64. Torque hardware as instructed on Assembly Drawing 1000384.

c. Install the Cable, Locking (Assembly Drawing 1000384, Sheet 1, Item 9) onto the Loop Assembly, Locking Cable Retaining (Assembly Drawing 1000384, Sheet 1, Item 8) and rivet to the Basket Assembly, Side Stowage RH, Complete as shown on Assembly Drawing 1000384, Sheet 3, View B. Shown in Figure 65 is the completed installation.
d. Repeat steps a) and b) to install the Basket Assembly, Side Stowage RH, Complete (Assembly Drawing 1000384, Sheet 1, Item 6) to the right side of the RFSV.

e. Assemble the Strap Assembly, Side Stowage Basket (Assembly Drawing 1000384, Sheet 1, Item 7) to the Basket Assembly, Side Stowage LH, Complete as shown on Assembly Drawing 1000384, Sheet 4, Detail G. A completed installation is shown in Figure 66. Refer to Table 9 for the Footman Loop Webbing Installation Instruction.

f. Assemble the Strap Assembly, Side Stowage Basket (Assembly Drawing 1000384, Sheet 1, Item 7) to the Basket Assembly, Side Stowage RH, Complete as shown on Assembly Drawing 1000384, Sheet 3, View B & View E. A completed installation is shown in Figure 67. Refer to Table 9 for the Footman Loop Webbing Installation Instruction.
g. Using the Template, Load Capacity Label (Drawing 1000427) as a stencil, apply the label to the front side panel of the Basket Assembly, Side Stowage LH, Complete and the Basket Assembly, Side Stowage RH, Complete using NIRR Camouflage Black paint. The position of the label is shown on Assembly Drawing 1000384, Sheet 4, View C & View D. A completed label for the Basket Assembly, Side Stowage LH, Complete is shown in Figure 68.

h. Prepare and paint all unpainted hardware in the appropriate camouflage colours in accordance with Specification ARMY(AUST) 6828.

See General Installation and Safety Note section regarding polyurethane paint.

i. Shown in Figure 69 and Figure 70 is the completed Basket Assembly, Side Stowage LH, Complete installation.
Figure 69  Completed Basket Assembly, Side Stowage LH Installation

Figure 70  Installed Restraint for Left Side Stowage Basket

j. Shown in Figure 71 and Figure 72 is the completed Basket Assembly, Side Stowage RH, Complete installation.

Figure 71  Completed Basket Assembly, Side Stowage RH Installation
Installation of Brushguard Assembly

This section describes the final installation of the Kit, Brushguard Assembly. Refer to Assembly Drawings as indicated in Table 3 for details.

a. Locate the Brushguard Assembly, Complete (Assembly Drawing 1000383, Sheet 1, Item 1) onto the chassis and install existing hardware to hold the Brushguard Assembly, Complete to the chassis. This hardware is identified in Figure 73 (4 places per side).

NOTE
Inspect and re-use existing hardware. If hardware is damaged or not in accordance with RPS 02207, Group RB, Items 004, 005 & 007 then replace with hardware as specified.

b. Torque all hardware to 77 N.m.

c. Refit the left and right Light, Driving, Long Range Sealed (RPS 02207, Reference Group QJJ) to the Brushguard Assembly, Complete. Refer to Figure 14 for installation diagram.

d. Refit the Wiring Harness, Driving Lights (RPS 02207, Group QC/2, Item 031) and route to the Brushguard as shown in Figure 74 and Figure 75. Use cable ties (Refer Table 2, Item 9) in two places as shown.
Installation of Winch and Roller Mounting Assembly

38. This section describes the installation of the Winch and Roller Mounting Assembly.

   a. Position the Assembly, Winch and Roller Mounting (Figure 10, Item 15) onto the Brushguard Assembly, Complete. Install the hardware that attaches the Assembly, Winch and Roller Mounting and the Brushguard Assembly, Complete to the chassis as shown in Figure 76.

   **NOTE**

   Inspect and re-use existing hardware. If hardware is damaged or not in accordance with RPS 02207, Group UAA, Item 007, 016, 017 and 018 then replace with hardware as specified.
Figure 76  Winch and Roller Mounting Assembly Hardware

b. Thoroughly clean the bolts (Figure 10, Item 16) used to attach the Assembly, Winch and Roller Mounting to the Winch Assembly. Coat threads of both bolts in thread sealant (refer Table 2, Item 4).

**NOTE**

Apply in accordance with manufacturer’s specification.

c. Insert hardware from previous step to attach the Assembly, Winch and Roller Mounting to the Winch Assembly. The completed assembly is shown in Figure 77.

Figure 77  Winch Assembly Hardware Installation

d. Install the hardware (Figure 12, Item 23) which retains the Winch Assembly in position (when the Brushguard Assembly, Complete, and the Assembly, Winch and Roller Mounting is removed).

e. Torque all hardware in steps a) to d) to 77 N.m.

f. Refill the Winch Assembly oil reservoir using recommended oil (refer Table 2, Item 3).

g. Insert the Hook, Grab, Swivel (Figure 11, Item 1) through the Assembly, Winch and Roller Mounting.

h. Reassemble the upper Roller Assembly, Fairlead Horizontal (Figure 10, Item 9) and the Shaft, Roller Fairlead, Longitudinal (Figure 10, Item 19) to the Assembly, Winch and Roller Mounting. A completed installation is shown in Figure 78. Torque hardware to 55 N.m.
Figure 78  Winch and Roller Mounting Assembly Installation

i. Prepare and paint all unpainted hardware in the appropriate camouflage colours in accordance with Specification ARMY(AUST) 6828.

See General Installation and Safety Note section regarding polyurethane paint.

j. A completed installation of the Brushguard Assembly, Complete, and the Assembly, Winch and Roller Mounting is shown in Figure 79 and Figure 80.

Figure 79  Completed Brushguard Assembly Installation
Figure 80  Completed Brushguard Assembly Installation

Installation of Sideguards

39. This section describes the installation of the Bar Assembly, Side Brushguard LH and the Bar Assembly, Side Brushguard LH to the RFSV. Refer to Assembly Drawings as indicated in for details.

   a. Locate the Bar Assembly, Side Brushguard LH (Assembly Drawing 1000383, Sheet 1, Item 2) into the end tube of the Brushguard Assembly, Complete (Assembly Drawing 1000383, Sheet 1, Item 1).

   b. Insert the Plate, Stud Steel (Figure 7, Item 16) into the left front cross member and attach the Bar Assembly, Side Brushguard LH using hardware as shown on Assembly Drawing 1000383, Sheet 2, Section B-B.

      NOTE

      Do not tighten hardware until the following step is completed.

   c. Insert hardware to attach the Bar Assembly, Side Brushguard LH to the Brushguard Assembly, Complete in accordance with Assembly Drawing 1000383, Sheet 2, Detail A. A completed installation is shown in Figure 81.

   d. Torque all hardware to the specification shown on Assembly Drawing 1000383.

   e. Repeat steps a) through d) for installation of the Bar Assembly, Side Brushguard RH (Assembly Drawing 1000383, Sheet 1, Item 3) to the right side of the RFSV.

Figure 81  Bar Assembly, Side Brushguard LH Installation
f. Prepare and paint all unpainted hardware in the appropriate camouflage colours in accordance with Specification ARMY(AUST) 6828.

CAUTION

See General Installation and Safety Note section regarding polyurethane paint.

g. A completed installation Bar Assembly, Side Brushguard LH is shown in Figure 82.

![Completed Bar Assembly, Side Brushguard LH](image)

**Figure 82  Completed Bar Assembly, Side Brushguard LH**

**Installation of Land Rover 6x6 Mirrors**

40. This section describes the installation of the Land Rover 6x6 mirrors arms to the RFSV. The mirror components are to be supplied as Government Furnished Equipment (GFE) and are not part of the Kit, Mass Reduction.

a. Screw the Lubricating Nipple (Figure 83, Item 16) into the Arm, Rear-view Mirror Aluminium Alloy (Figure 83, Item 12).

CAUTION

Do not over-tighten the Lubricating Nipple.

NOTE

Figure 83 depicts the typical installation to the right side (driver’s side) of the vehicle. Installation to the left side (passenger side) is opposite.
Figure 83  Land Rover 6x6 Mirror Arm Assembly

b. Insert the Spring, Helical, Compression (Figure 83, Item 17) quantity 7 into the Arm, Rear-view Mirror Aluminium Alloy (Figure 83, Item 12).

c. Apply a light film of grease (refer Table 2, Item 6) to the upper surface of the Mounting Assembly, Mirror Arm To Door Hinge (Figure 83, Item 19) and locate the ‘O’ Ring (Figure 83, Item 8) and the Ball, Bearing 8 mm diameter (Figure 83, Item 18) quantity 7 onto the top surface.

d. Install the Arm, Rear-view Mirror Aluminium Alloy onto the Mounting Assembly, Mirror Arm To Door Hinge and secure using Item 9, Item 10 and Item 21. Torque hardware to 44 N.m.

e. Install the assembly from the previous steps to the Hinge, Door Vehicular Front Door, Upper, Left Hand (Figure 83, Item 6).

f. Install hardware (Figure 83, Item 7) to secure the Hinge, Door Vehicular Front Door, Upper, Left Hand.

g. Insert the Grommet Blank, Non-metallic Plastic (Figure 83, Item 11) into the recess of the Arm, Rear-view Mirror Aluminium Alloy.

h. Attach the Mirror Head, Vehicular Left Hand (Figure 83, Item 14) removed previously.

i. Apply grease (refer Table 2, Item 6) through the Lubricating Nipple.

NOTE

The following steps detail the assembly instructions for the right side (driver’s side) of the vehicle.

j. Screw the Lubricating Nipple (Figure 84, Item 15) into the Arm, Rear-view Mirror Aluminium Alloy (Figure 84, Item 8).
Figure 84  Land Rover 6x6 Mirror Arm Assembly (LHS)

k. Insert the Spring, Helical, Compression (Figure 84, Item 16) quantity 7 into the Arm, Rear-view Mirror Aluminium Alloy (Figure 84, Item 8).

l. Apply a light film of grease (refer Table 2, Item 6) to the upper surface of the Mounting Assembly, Mirror Arm To Door Hinge (Figure 83, Item 19) and locate the ‘O’ Ring (Figure 84, Item 18) and the Ball, Bearing 8 mm diameter (Figure 84, Item 17) quantity 7 onto the top surface.

m. Install the Arm, Rear-view Mirror Aluminium Alloy onto the Mounting Assembly, Mirror Arm To Door Hinge and secure using Item 9, Item 10 and Item 20. Torque hardware to 44 N.m.

n. Install the assembly from the previous step to the Bracket, Rearward Offset RH (Figure 84, Item 6) and secure using Item 7 and Item 21.

o. Install assembly from above to the Hinge, Door Vehicular Front Door, Upper, Right Hand (Figure 84, Item 4).

p. Install hardware (Figure 84, Item 22, Item 23, Item 24) to secure the Hinge, Door Vehicular Front Door, Upper, Right Hand.

q. Insert the Grommet Blank, Non-metallic Plastic (Figure 84, Item 11) into the recess of the Arm, Rear-view Mirror Aluminium Alloy.

r. Attach the Mirror Head, Vehicular Right Hand (Figure 84, Item 13) removed previously.

s. Apply grease (refer Table 2, Item 6) through the Lubricating Nipple.

t. Mark the camouflage paint pattern applied to the RFSV onto the left and right side mirrors. A typical camouflage paint pattern of the existing left side rear view mirror is shown in Figure 85.

NOTE

Care should be exercised when painting the rear view mirror components as the camouflage pattern is different from left to right.
Figure 85  Left Side Rear View Mirror Camouflage Painting

u. Apply final camouflage painting in NIRR Camouflage Green and NIRR Camouflage Black camouflage paint to the mirrors in accordance with Specification ARMY(AUST) 6828.

See General Installation and Safety Note section regarding polyurethane paint.

v. A completed left side rear view mirror is shown in Figure 86 below.

Figure 86  Completed Mirror Installation
Relocation of Vehicle Centre of Gravity Plate

41. This section describes the procedure for relocating the vehicle Centre of Gravity plate, which is affixed to the left side of each vehicle under the door.

a. Drill out the four rivets securing the Plate, C of G (RPS 02207, Reference Group SGD, Item 9) to the left side of the vehicle.

b. Using the centre of the rear axle as a datum, mark the new centre of gravity location at a distance of 1518 mm from the rear axle.

c. Using the Plate, C Of G as a template drill the four rivet holes with a 3.3 mm drill bit.

d. Install the Plate, C Of G as shown in Figure 87 using rivets as per RPS 02207, Reference Group SGD, Item 901 (Rivet, Blind, Monel, Dome Head, 1/8” Shank Diameter). Refer Table 2, Item 5 for details.

NOTE

The rivets are not supplied in the Kit, Mass Reduction and are to be purchased by the contractor completing the modification.

![Figure 87 Installed Centre of Gravity Plate](image)

42. This section describes the refitting of the RFSV parts and equipment that were removed to allow installation of the Kit, Mass Reduction Components.

a. Return all equipment to the cargo tray stowage bins.

b. Refit batteries and reconnect the battery leads.

NOTE

To prevent damage to electrical system it is important to re-connect the positive battery cables to both batteries first. After the positive cables have been re-connected, the negative battery cables may be re-connected.

c. Refit the Cover, Fitted, Vehicular Body Camouflaged.
d. Refit the Frame Assembly, Camouflage Net Stowage Complete.
e. Install the Wheel, Pneumatic Tyre two-off to the Spare Wheel Carrier.
f. Secure using the restraint as supplied with the Kit, Spare Wheel Carrier Assembly.

43. Post Modification Testing:
   a. Check clipping and un-clipping operation of cargo restraints.
   b. Run RFSV engine and check operation of all front and rear lights and instrumentation.
   c. Functionally test the operation of the winch.

Recording Action

44. On completion of the modification, the following action is to be taken in accordance with the TRAMM, Volume 3, Section 2, Chapter 2, Annex D:
   a. Modification number for the modification record plate is to be issued upon design approval.
   b. Complete the modification details in the Update RFSV GM120, Record Book for Service Equipment, Part 3 - Record for Modifications.
   c. Forward the modification completion details using form GM 119 – Advice of Change in Build State (TRAMM, Volume 3, Section 2, Chapter 3, Annex C) to:

   Land Rover Safety Improvement Project Office
   Level 7, Defence Plaza
   661 Bourke Street
   MELBOURNE VIC 3000
# Table 6  Component Breakdown of RFSV Mass Reduction Kit

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Part Name</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>1000089</td>
<td>Reinforcement, Footman Loop</td>
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</tr>
<tr>
<td>1000268</td>
<td>Rivet Avinox Ø4.8, Stainless Steel</td>
<td>16</td>
</tr>
<tr>
<td>1000271</td>
<td>Rivet Avinox Ø4.8, Stainless Steel</td>
<td>2</td>
</tr>
<tr>
<td>1000291</td>
<td>Brushguard Assembly, Complete</td>
<td>1</td>
</tr>
<tr>
<td>1000310</td>
<td>Bar Assembly, Side Brushguard LH</td>
<td>1</td>
</tr>
<tr>
<td>1000311</td>
<td>Bar Assembly, Side Brushguard RH</td>
<td>1</td>
</tr>
<tr>
<td>1000319</td>
<td>Plate, Foot, Side Stowage Basket Upper</td>
<td>4</td>
</tr>
<tr>
<td>1000320</td>
<td>Plate Assembly, Foot, Side Stowage Basket Lower</td>
<td>4</td>
</tr>
<tr>
<td>1000343</td>
<td>Basket Assembly, Side Stowage LH, Complete</td>
<td>1</td>
</tr>
<tr>
<td>1000344</td>
<td>Basket Assembly, Side Stowage RH, Complete</td>
<td>1</td>
</tr>
<tr>
<td>1000346</td>
<td>Rivet, Ø6.4 Aluminium</td>
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<td>1000347</td>
<td>Carrier Assembly, Sparewheel Rear, Complete</td>
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<tr>
<td>1000381</td>
<td>Reinforcement, Sparewheel Rear Carrier Tray</td>
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<td>1000382</td>
<td>Plate, Sparewheel Carrier Rear Chassis Mounting</td>
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<tr>
<td>1000386</td>
<td>Harness, Extension, Registration Plate Light</td>
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<td>1000388</td>
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<td>1000420</td>
<td>Strap Assembly, Sparewheel Rear</td>
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<tr>
<td>1000425</td>
<td>Cable, Locking</td>
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<td>Loop Assembly, Locking Cable Retaining</td>
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<tr>
<td>1000431</td>
<td>Rivet Cherry Ø4.8, Aluminium Grip Range 9.5-12.7</td>
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<tr>
<td>1000432</td>
<td>Grommet, Rubber Blank, ID 15.9 x 1.6 Panel Thickness</td>
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<tr>
<td>1000433</td>
<td>Clamp, Cushion Loop ID 6.0</td>
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<tr>
<td></td>
<td>Bolt, Hex HD, M8 x 1.25 – 6 g x 30 lg, Grade 8.8 to as 1110.1, Steel ZN PLT</td>
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<td>Nut, Hex Nyloc, M5 x 0.80 - 6H, Grade 8 to as 1112.1, Steel ZN PLT</td>
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</tr>
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<td>Nut, Hex, M8 x 1.25 - 6H, Grade 8 to as 1112.1, Steel ZN PLT</td>
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<tr>
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<td>Screw,btn Head, m5 x 0.8 – 6 g x 16 lg, grade 8.8 to as 1110.1, Steel blk</td>
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<td>Washer, Flat, ID Ø 8.4 x OD Ø16 x 1.6, as 1237.1, Steel ZN PLT</td>
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<td>Washer, Flat, ID Ø10.5 x OD Ø20 x 2.0, as 1237.1, Steel ZN PLT</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Washer, Lock, ID Ø 8.1 x OD Ø14.8 x 2.0, Spring Steel ZN PLT</td>
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<td>Washer, Lock, ID Ø10.2 x OD Ø18.1 x 2.2, Spring Steel ZN PLT</td>
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### Table 7  Items to be Discarded

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<thead>
<tr>
<th>RPS Group - Item</th>
<th>Mfr Part No.</th>
<th>Description</th>
<th>Unit of Issue</th>
<th>Qty per RFSV</th>
</tr>
</thead>
<tbody>
<tr>
<td>QL - 017</td>
<td>AYG9742</td>
<td>Wiring Harness Number Plate Lamp</td>
<td>Each</td>
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### Table 8  Items to be Returned to Commonwealth

<table>
<thead>
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<th>RPS Group - Item</th>
<th>Mfr Part No.</th>
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<th>Unit of Issue</th>
<th>Qty per RFSV</th>
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<tbody>
<tr>
<td>RC/2 - 021</td>
<td>HYG5904</td>
<td>Lower Tube Assembly, Left Hand</td>
<td>Each</td>
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<tr>
<td>RC/2 - 028</td>
<td>HYG5905</td>
<td>Lower Tube Assembly, Right Hand</td>
<td>Each</td>
<td>1</td>
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<tr>
<td>RB - 003</td>
<td>HYG4493</td>
<td>Side Bar-brushguard</td>
<td>Each</td>
<td>1</td>
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<tr>
<td>RB - 001</td>
<td>HYG4492</td>
<td>Side Bar-brushguard</td>
<td>Each</td>
<td>1</td>
</tr>
<tr>
<td>RB - 002</td>
<td>AYG8805</td>
<td>Brushguard Assembly</td>
<td>Each</td>
<td>1</td>
</tr>
<tr>
<td>RE/1 - 012</td>
<td>HYG3743</td>
<td>Clamp Assembly, Jerrican Holder</td>
<td>Each</td>
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<tr>
<td>RE/1 - 002</td>
<td>HYG3742</td>
<td>Bracket, Pivot U Shape</td>
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<td>RE/1 - 027</td>
<td>HYG3114</td>
<td>Rubber Strip Abutment</td>
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<tr>
<td>RE/1 - 019</td>
<td>HYG3740</td>
<td>Holder Assembly, Jerrican-Lh</td>
<td>Each</td>
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<tr>
<td>SB-010</td>
<td>2540-99-795-3170</td>
<td>Arm, Rear View Mirror</td>
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<td>N/A</td>
<td>Formation Sign</td>
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Footman Loop Webbing Installation Instruction

45. These following steps provide the instruction for installation of the restraint webbing onto the footman loops as directed in the Modification Instruction.

NOTE

The following procedure does not require the footman loop to be removed from the component.

Figure 88  Footman Loop Removal Steps
<table>
<thead>
<tr>
<th>Item</th>
<th>Drawing No.</th>
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<tr>
<td>1</td>
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<td>Kit, Brushguard Assembly</td>
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<tr>
<td>2</td>
<td>1000384</td>
<td>Kit, Side Stowage Basket Assembly</td>
</tr>
<tr>
<td>3</td>
<td>1000385</td>
<td>Kit, Sparewheel Rear Carrier Assembly</td>
</tr>
<tr>
<td>4</td>
<td>1000268</td>
<td>Rivet Avinox Ø4.8, Stainless Steel</td>
</tr>
<tr>
<td>5</td>
<td>1000270</td>
<td>Rivet Avinox Ø4.8, Stainless Steel</td>
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<td>6</td>
<td>1000191</td>
<td>Welding Procedure Specification</td>
</tr>
<tr>
<td>7</td>
<td>1000426</td>
<td>Jig, Side Stowage Basket</td>
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<tr>
<td>8</td>
<td>1000346</td>
<td>Rivet, Ø6.4 Aluminium</td>
</tr>
<tr>
<td>9</td>
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<td>Template, Load Capacity Label</td>
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