



## **KLUGER/HIGHLANDER**

Accessory Part No: PZQ4448040  
December 2013 Production Onwards  
Fitting Time: 90 minutes

### Side Steps Fitting Instructions

### General

- Read through the fitting instructions before installation of accessory.
- Always install the accessory following the fitting instructions. Failure to do so may cause damage to the vehicle or the accessory.
- Ensure all recyclable discarded vehicle accessory components and packaging are recycled following local recycling regulations.
- It is always recommended that this accessory is fitted by a qualified Toyota Technician.
- Safely store and protect any removed vehicle components.
- Ensure all bare metal surfaces are protected using Automotive Bare Metal Primer and touch-up paint.
- Remove all metal swarf and dust from all vehicle surfaces if surface is used for accessory installation.
- Place these instructions in vehicle's glove box after installation is complete.

### Safety Notes

- Check that all work practices comply with safety standards.
- Please wear appropriate clothing and use safety equipment.

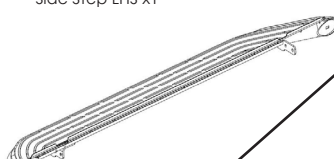
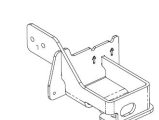











### Fitting Time

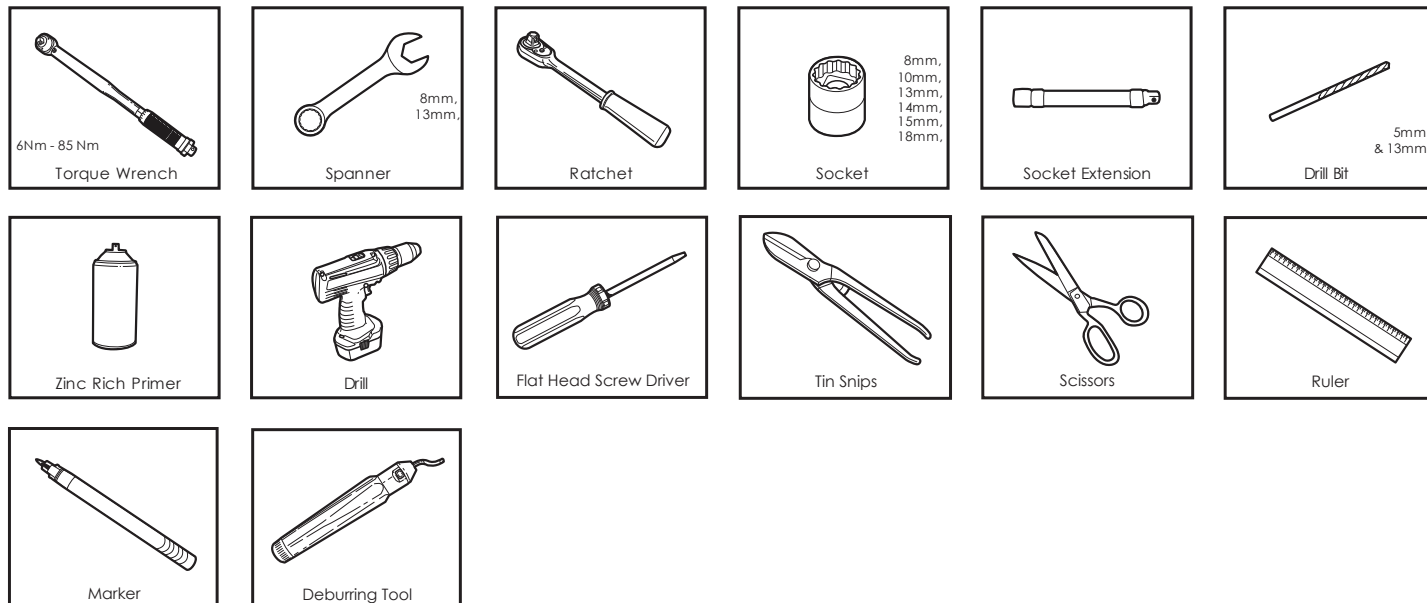


Est. 90 minutes

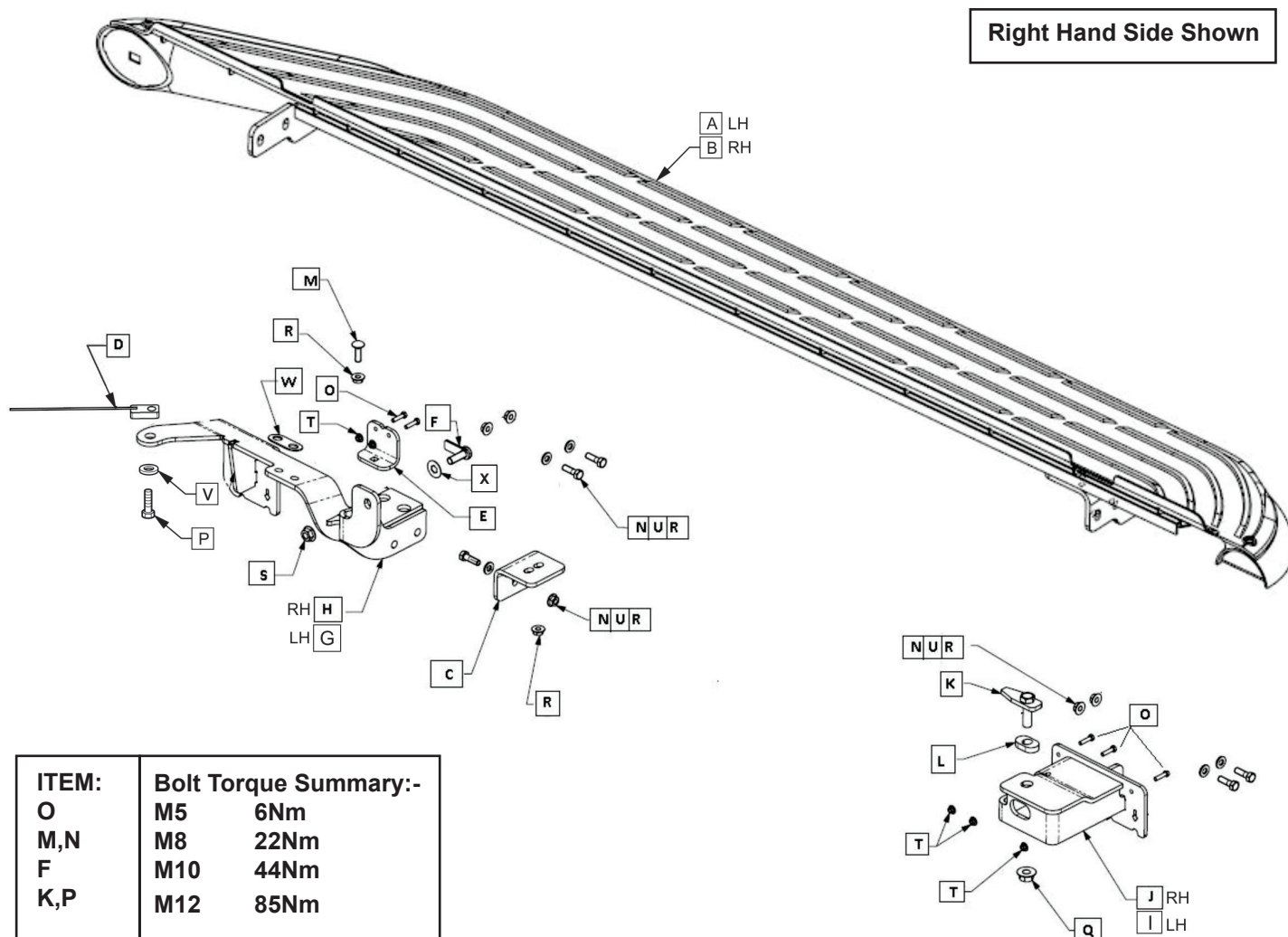
### Parts Supplied

<div>A</div> <div>Side Step LHS x1</div> <div></div> <div>Side Step RHS x1</div> <div>B</div>	<div>C</div> <div></div> <div>Front L-Bracket x2</div>	<div>D</div> <div></div> <div>M12 Tapped Plate x2</div>	<div>E</div> <div></div> <div>Front Panel Bracket x2</div>	<div>F</div> <div></div> <div>M10 Chassis Bolt Plate x2</div>
	<div>G</div> <div></div> <div>Front Mounting Bracket LH x1</div>	<div>H</div> <div></div> <div>Front Mounting Bracket RH x1</div>	<div>I</div> <div></div> <div>Rear Mounting Bracket LH x1</div>	<div>J</div> <div></div> <div>Rear Mounting Bracket RH x1</div>
<div>K</div> <div></div> <div>M12 Chassis Bolt Plate x4</div>	<div>L</div> <div></div> <div>Chassis Spacer x2</div>	<div>M</div> <div></div> <div>M8x25 Coach Bolt x2</div>	<div>N</div> <div></div> <div>M8x25 Hex Head Bolt x10</div>	<div>O</div> <div></div> <div>M5x20 Hex Head Bolt x10</div>
	<div>P</div> <div></div> <div>M12x20 Hex Head Bolt x2</div>	<div>Q</div> <div></div> <div>M12 Flange Nut x2</div>	<div>R</div> <div></div> <div>M8 Flange Nut x14</div>	<div>S</div> <div></div> <div>M10 Flange Nut x2</div>
	<div>T</div> <div></div> <div>M5 Flange Nut x10</div>	<div>U</div> <div></div> <div>Ø9mm Flat Washer x10</div>	<div>V</div> <div></div> <div>Ø13.5mm Flat Washer x2</div>	
<div>W</div> <div></div> <div>Spacer x2</div>	<div>X</div> <div></div> <div>Fiberwasher x2</div>	<div>Y</div> <div></div> <div>Jack Warning Label x1</div>	<div>Z</div> <div></div> <div>Fitting Instruction</div>	

### — Tools Required —



### — Layout Diagram —



### — Step 1 —

#### Important



Always refer to the vehicle's Workshop Manual when removing vehicle components.

- Remove two plastic undercover (1)(2) on the LH side.
- Remove one plastic undercover (3) on the RH side.

**Note:** To remove the screw clips, do not apply any pressure, just turn the fastener.

Applying pressure will re-fasten the clip.

Tools Required: Ratchet, 10mm Socket, Flat Screwdriver.

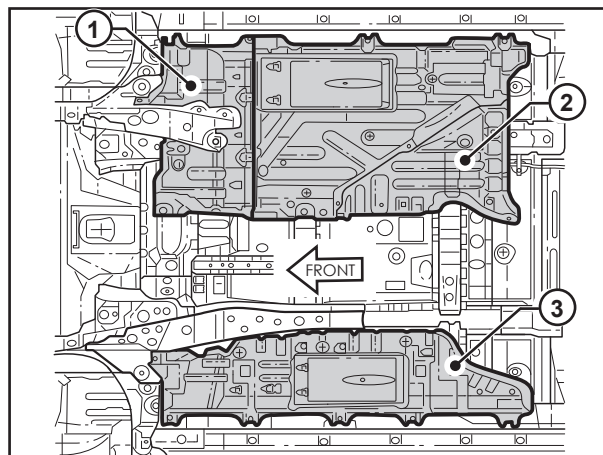


FIGURE 1

### — Step 2 —

- Remove two M10 bolts with washers (1) from the metal pressing on the LH side and retain for future use as shown in Figure 2.
- Repeat for the RH side.

Tools Required: Ratchet & 14mm socket.

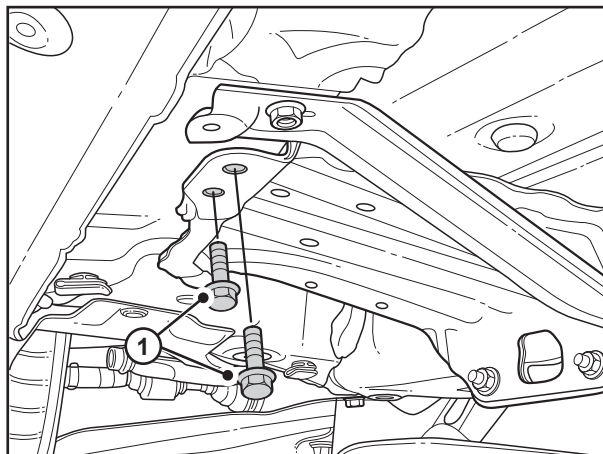


FIGURE 2

### — Step 3 —

- Identify the 10mm diameter hole on the LH torque box. Remove and discard the rubber grommet (1). Enlarge the hole to 13mm as shown in Figure 3a.
- De-burr the hole & apply rust proofing to the hole.

Tools Required: Power drill, 13mm Drill, De-burr Tool,  
Zinc Rich Primer

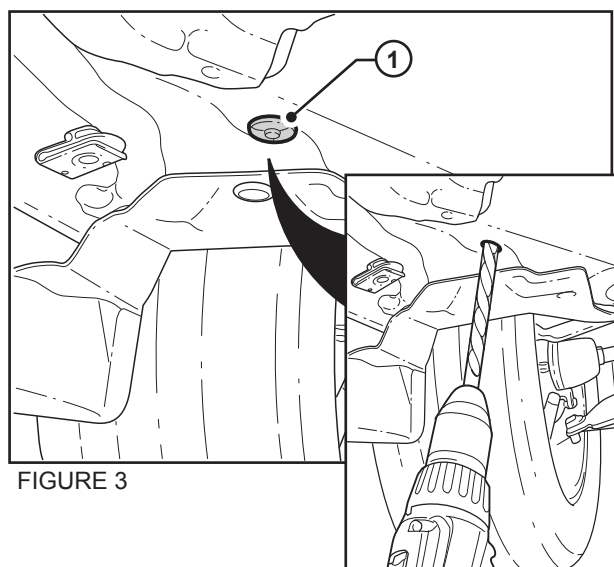


FIGURE 3

FIGURE 3a

### — Step 4 —

- Identify the 25mm diameter hole, remove the rubber grommet **(1)** and retain for future use.
- To ease the installation of the M12 tapped plate, bend the end of the wire 90 degrees approximately 40mm in length to create a handle as shown in Figure 4b.
- Insert the M12 tapped plate **(Item D)** into the 25mm diameter hole on the LH torque box and feed it towards the enlarged 13mm hole **(2)** in Step 3 as shown in Figure 4a.

**Important**



**Ensure the welded wire on the M12 tapped plate is facing up.**

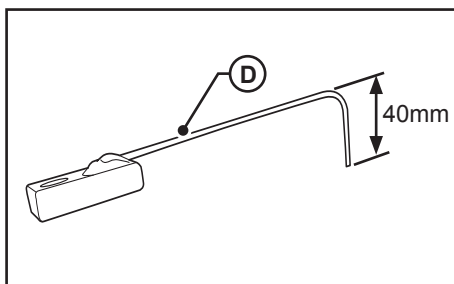


FIGURE 4b

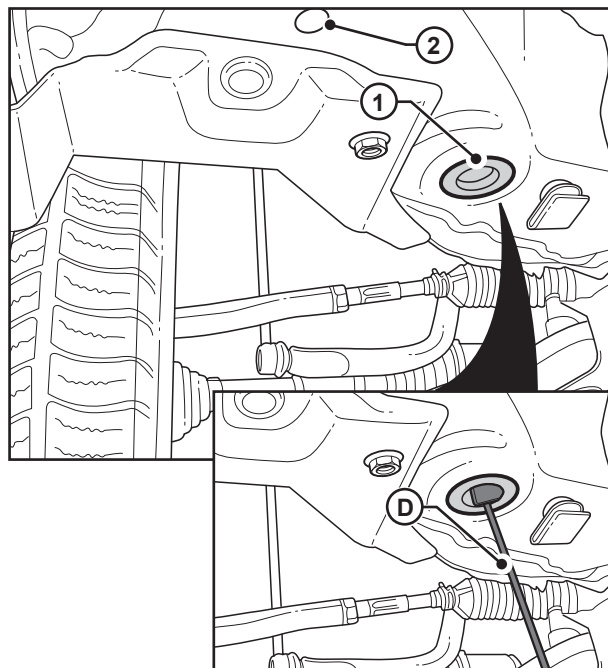


FIGURE 4a

### — Step 5 —

- Align the threaded hole in tapped plate **(1)** above the enlarged 13mm hole in Step 3 as shown in Figure 5.

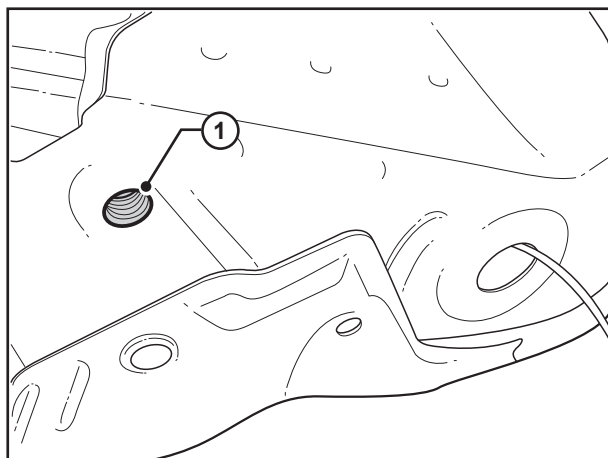


FIGURE 5

### — Step 6 —

- Identify the 18mm diameter hole on the rocker panel, remove and discard the rubber grommet **(1)** as shown in Figure 6.

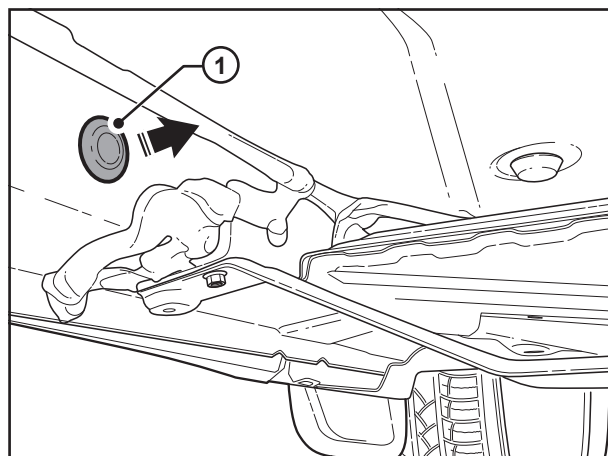


FIGURE 6

### — Step 7 —

- Install the fibre-washer (**Item X**) to the M10 chassis bolt plate (**Item F**).
- Insert the pre-assembled M10 chassis bolt plate into the hole as shown in Figure 7.

**Important**



Ensure fiber-washer is fitted-on to prevent M10 chassis bolt plate falling into vehicle chassis rail.

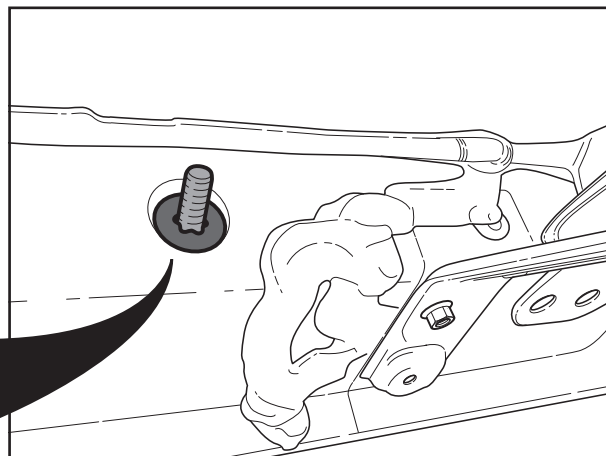
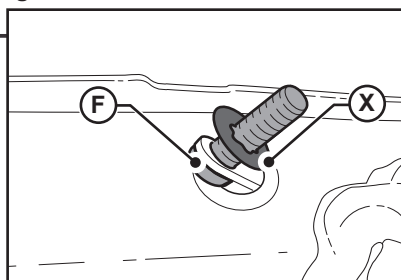


FIGURE 7

### — Step 8 —

- Install the front mounting bracket (**Item G**) with supplied spacer (**Item W**), M12 Bolt (**Item P**), Washer (**Item V**), M10 flange nut (**Item S**) and two M10 bolts with washers (**1**) removed from Step 2.

 **Torque all M10 nut & bolts to 44Nm and M12 nut to 85Nm.**

Tools Required: Torque wrench, 14mm, 15mm & 18mm socket.

**Important**



Remove excess body sealer around the mounting surface. Apply rust proofing to the panel edges where sealer was removed.

**Important**



Ensure M10 chassis bolt plate (**Item F**) is inside the slot of front mounting bracket (**Item G**)

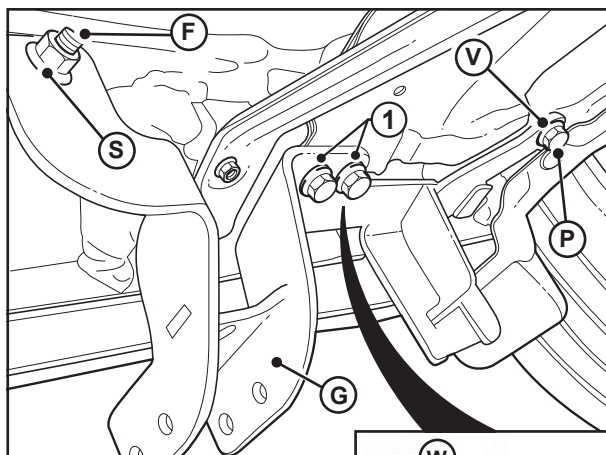


FIGURE 8

### — Step 9 —

- Install Front Panel Bracket (**item E**) to the Front Mounting Bracket (**item G**) using the M8 coach bolt (**item M**); and M8 flange nut (**item R**) as shown in Figure 9.

 **Using a 13mm socket, torque the M8 nut to 22Nm.**

**Note:** Check to ensure the panel bracket is sitting firmly against the sill panel flange.

Tools Required: Torque Wrench & 13mm socket.

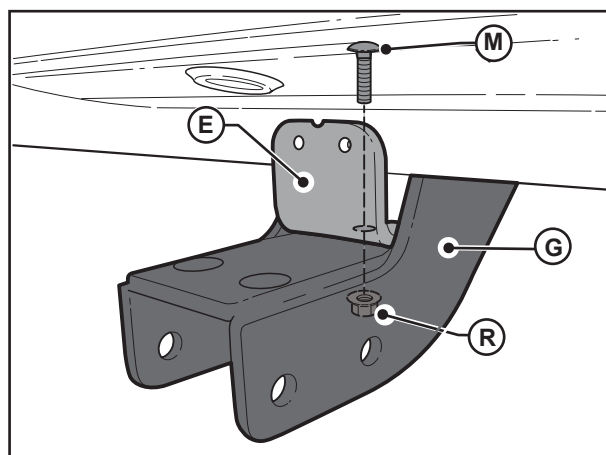


FIGURE 9

### — Step 10 —

- Drill 2-off 5.0mm diameter holes through the panel bracket and into the vehicle sill flange.
- De-burr the holes on the inner side of the sill panel and apply rust proofing in the holes.

Tools Required: Power Drill & 5mm Drill Bit

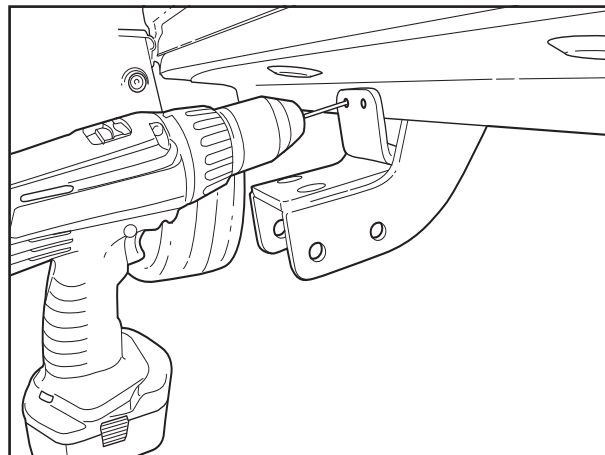


FIGURE 10

### — Step 11 —

- Fit the 2-off M5 Bolts (**item O**) through the flange bracket and install the M5 Flange Nuts (**item T**) as shown in Figure 11.

 **Using an 8mm socket, torque the M5 nut to 6Nm.**

- Repeat Steps 3 to 11 for the other side.

#### Important



Bend back the excess wire (**item D**) and store inside the sill panel cavity. Ensure that the wire does not rattle when the vehicle is in motion. Fit the rubber grommet back to the hole.

Tools Required: Torque Wrench & 8mm Socket.

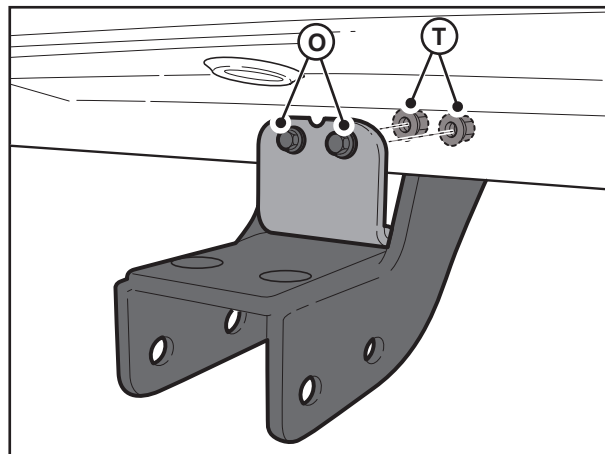


FIGURE 11

### — Step 12 —

- Insert M12 chassis bolt plate (**item K**) into oval access opening in the body as shown in Figure 12.

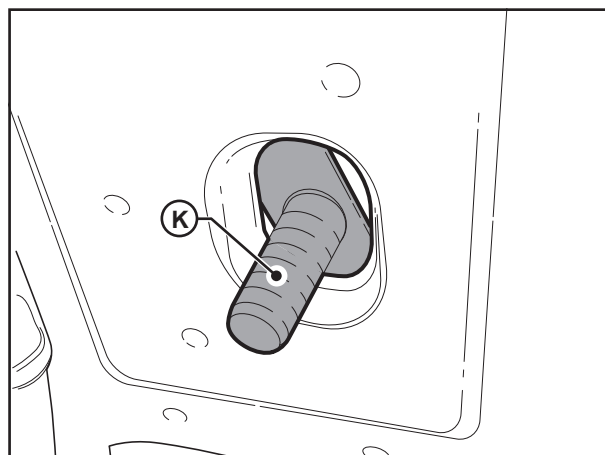


FIGURE 12



### — Step 13 —

- Insert chassis spacer (**item L**) ensure it locates in the oval recess as shown in Figure 13.

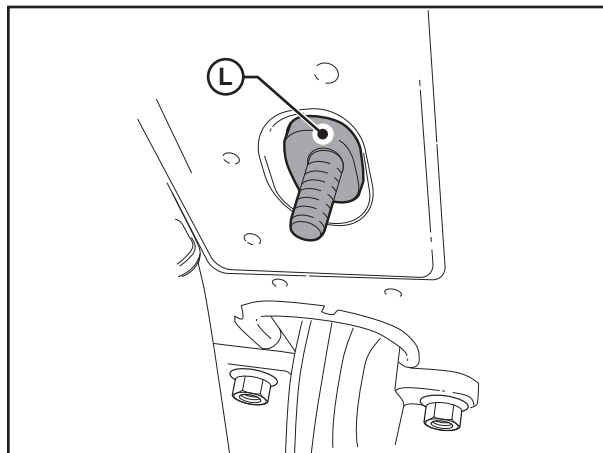


FIGURE 13

### — Step 14 —

- Install Rear Mounting Bracket (**item I**) with M12 Flange Nut (**item Q**) and hand tighten only, as shown in Figure 14, ensuring the rear chassis bracket is sitting firmly against the sill panel flange.

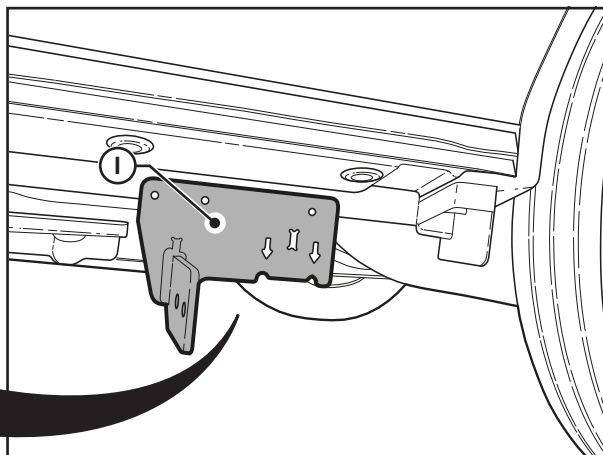
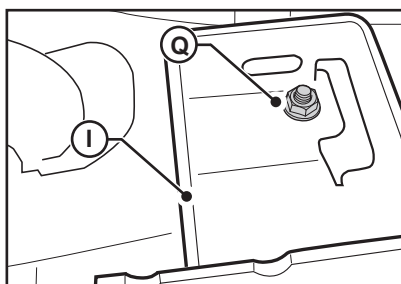


FIGURE 14

#### Important



Remove excess body sealer around the mounting surface and apply rust proofing to the panel edges.



### — Step 15 —

- Offer the Side Step Assembly (**item A**) to the fitted brackets to verify the position of the rear mounting bracket as shown in Figure 15.
- Ensure the brackets on the side step assembly rest firmly against the side step mounting brackets on the vehicle.

**Note: The bracket from the side step tube mounts to the front face of the brackets.**

- Loosely install the 2x rear and 2x front M8 bolts (**item N**), washer (**item U**) and M8 Nuts (**item R**) and hand tighten only.

**⚠ Using an 18mm socket, torque M12 Flange Nut (item Q) to 85Nm.**

Tools Required: Torque Wrench & 18mm Socket.

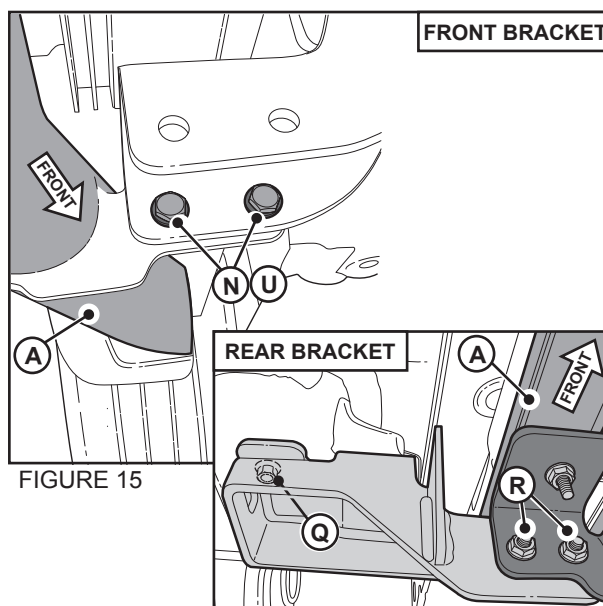
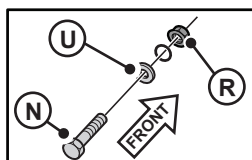


FIGURE 15



### — Step 16 —

- Remove the side step assembly from the mounting brackets.
- Drill 3-off 5.0mm diameter holes through the panel bracket and into the vehicle sill flange **(1)**.
- De-burr holes on the inner side of the sill panel and apply rust proofing in the holes.

Tools Required: Power drill, 5mm drill bit, de-burr tool & zinc rich primer.

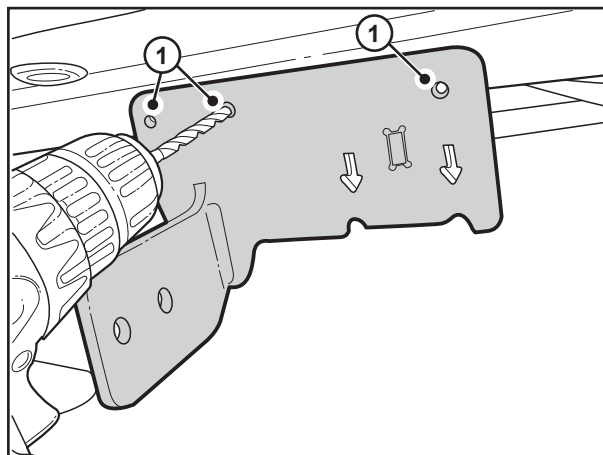


FIGURE 16

### — Step 17 —

- Fit the M5 hex bolts x3 **(Item O)** through the Rear Panel bracket and install the M5 Nuts x3 **(Item T)** as shown in Figure 17.
- Repeat Steps 12 to 17 for the other side.

 **Using an 8mm socket, torque the M5 Bolts to 6Nm.**

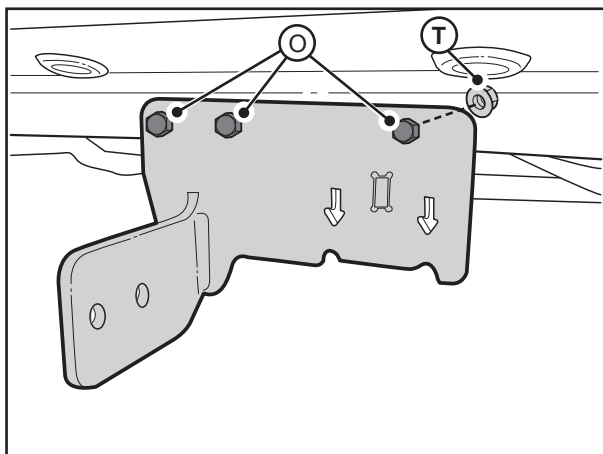


FIGURE 17

Tools Required: Torque Wrench & 8mm Socket.

### — Step 18 —

- Offer the Side Step Assembly to the mounting brackets.
- Align the holes in the side step brackets with the holes on the mounting brackets ensuring that the side step brackets are in front of the vehicle mounting brackets as shown in Figure 18.

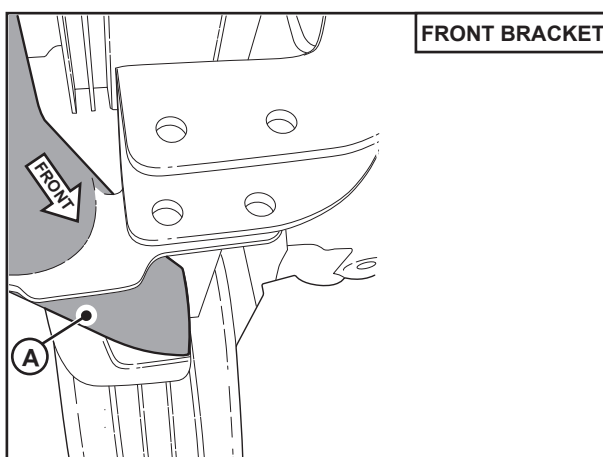


FIGURE 18

### — Step 19 —

- Loosely install the 2 x rear and 2 x front M8 Bolts (**Item N**), Flat washers (**Item U**) and nuts (**Item R**) as shown in Figure 19.

**Note:** Fit the flat washers under the M8 bolt heads to ensure bolt head engagement due to the slots in the side step brackets.

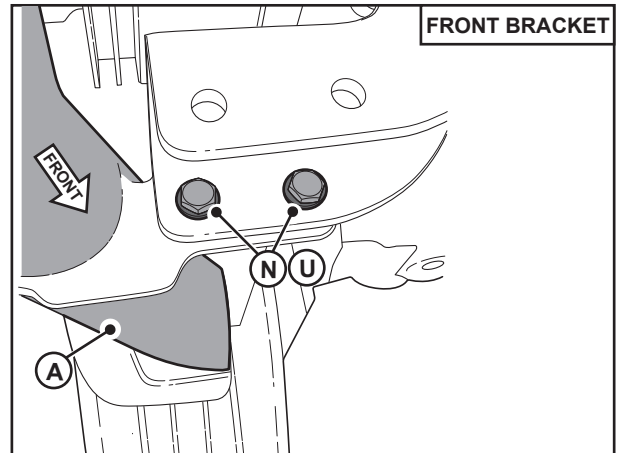
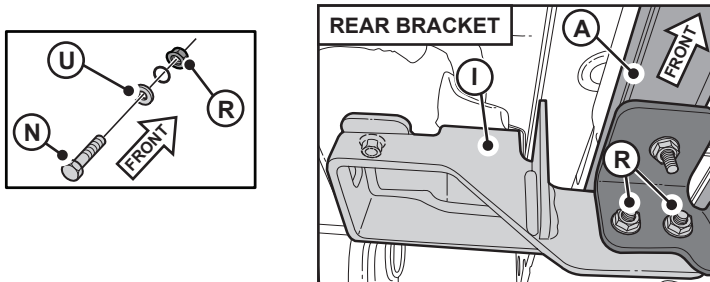


FIGURE 19

### — Step 20 —

- Adjust step to ensure that a minimum gap condition of 10mm is maintained between the step and the doors. Ensure the step is level as shown in Figure 20.

**⚠ Using a torque wrench and 13mm socket, torque all M8 Nuts to 22Nm.**

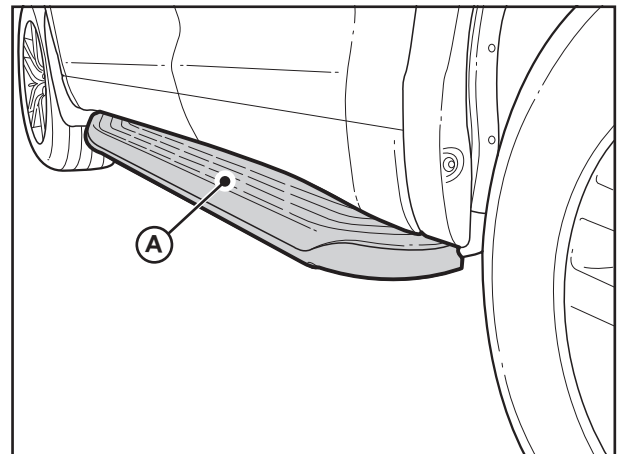


FIGURE 20

Tools Required: Torque Wrench, 13mm Socket.

### — Step 21 —

- Install the Front L-Bracket (**Item C**) to the underside of the Side Step (**Item A**) with M8 Flange Nut (**Item R**) as shown in Figure 21.
- Install the Front L-Bracket (**Item C**) to the Front Mounting Bracket (**Item G**) with M8 Bolt (**Item N**), Washer (**Item U**) and Nut (**Item R**) as shown in Figure 21.
- Ensure the M8 washer is under the bolt head.

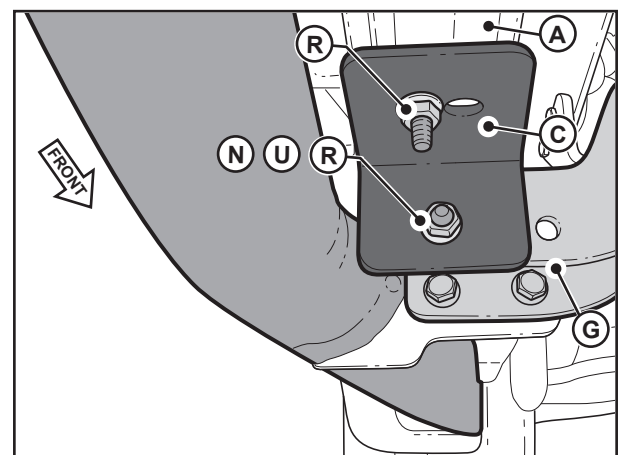


FIGURE 21

### — Step 22 —

⚠ Using a 13mm socket, torque the M8 nuts (1) to 22Nm as shown in Figure 22.

- Repeat steps 18 to 22 for the other side.

Tools Required: Torque Wrench, 13mm Socket.

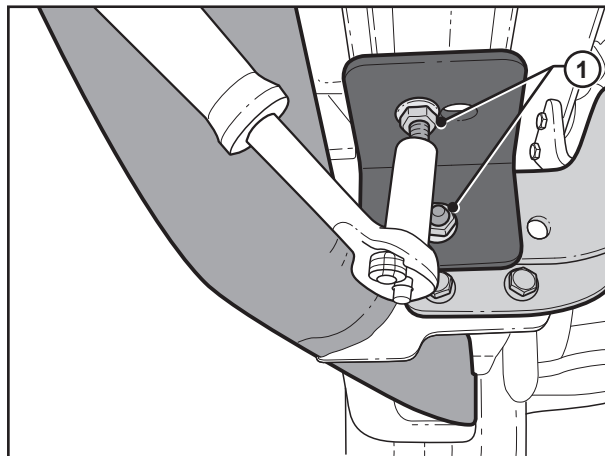


FIGURE 22

### — Step 23 —

- Using the supplied template, create cut-outs on the plastic undercovers, following the instructions on page 12 and 13.
- Re-install the plastic undercover as shown in Figure 23.

Tools Required: Ratchet & 10mm socket (1/4" & 3/8" drive only).

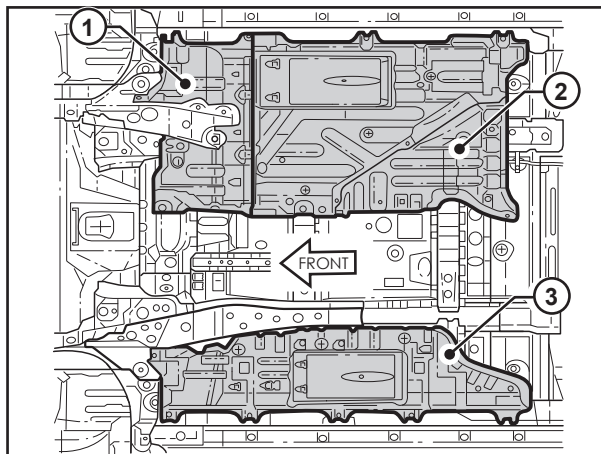


FIGURE 23

### — Step 24 —

- Attach the Jack Warning Label to the vehicle jack. Ensure existing label on the jack is covered by the new Jack Warning Label as shown in Figure 24.

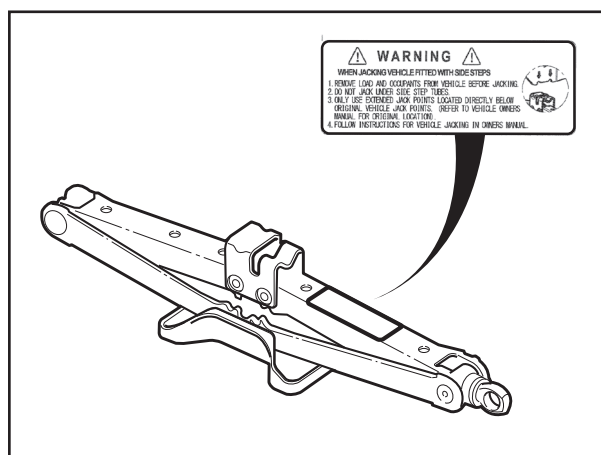


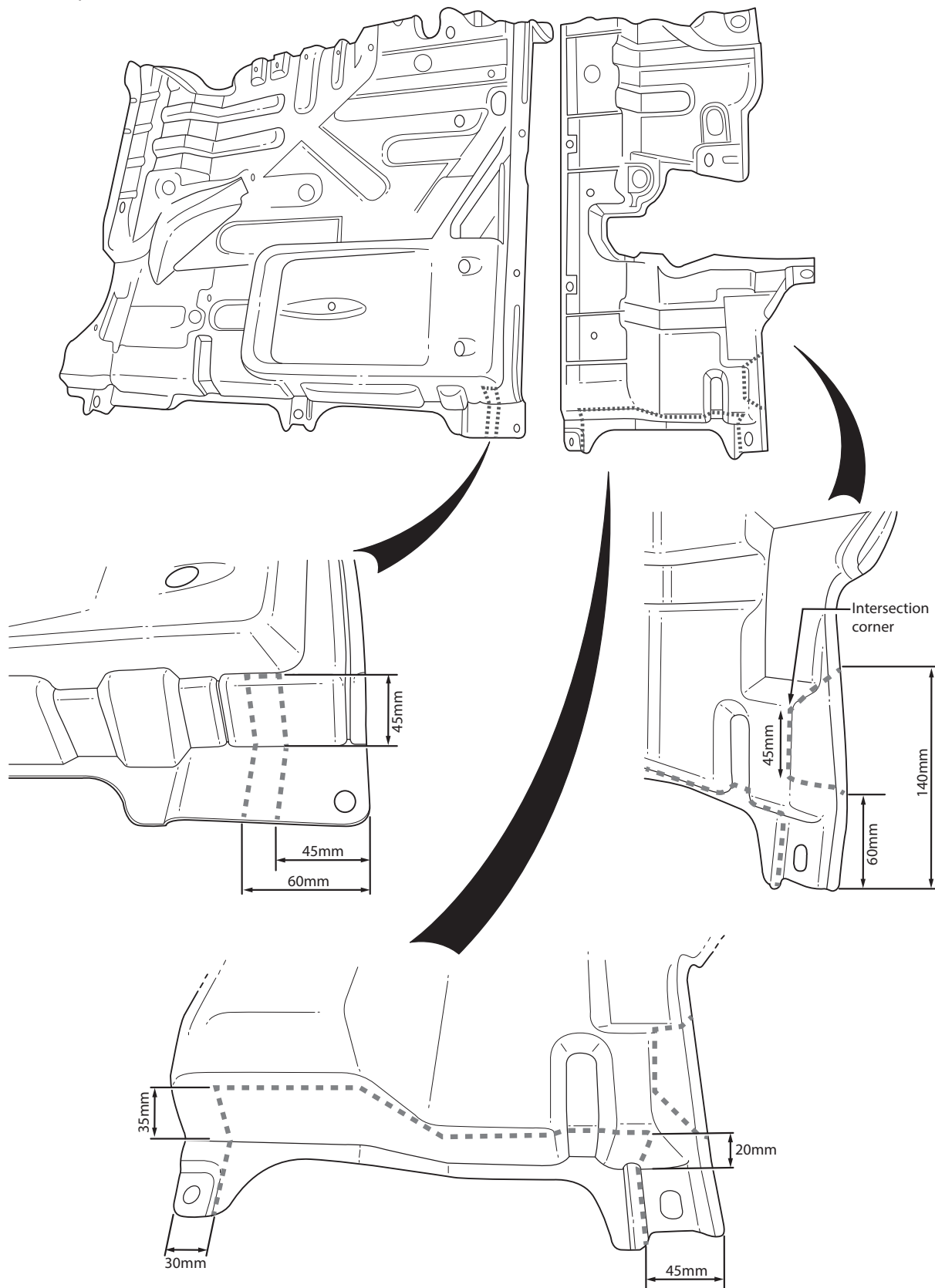
FIGURE 24

### — Templates —

### PLASTIC UNDERCOVER CUT OUTS – LEFT HAND SIDE

Cut the plastic undercover along the dashed line shown

Tools Required: Snips, Scissors, Ruler, Marker.



### — Templates —

Cut the plastic undercover along the dashed line shown

Tools Required: Snips, Scissors, Ruler, Marker.

