



RAV4

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Kit Part No : PZQ4442110

OCTOBER 2015 PRODUCTION ONWARDS

Fitting Time: 60 minutes

## Side Steps

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## Fitting Instructions

### General Notes

- 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.

### Safety Notes

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

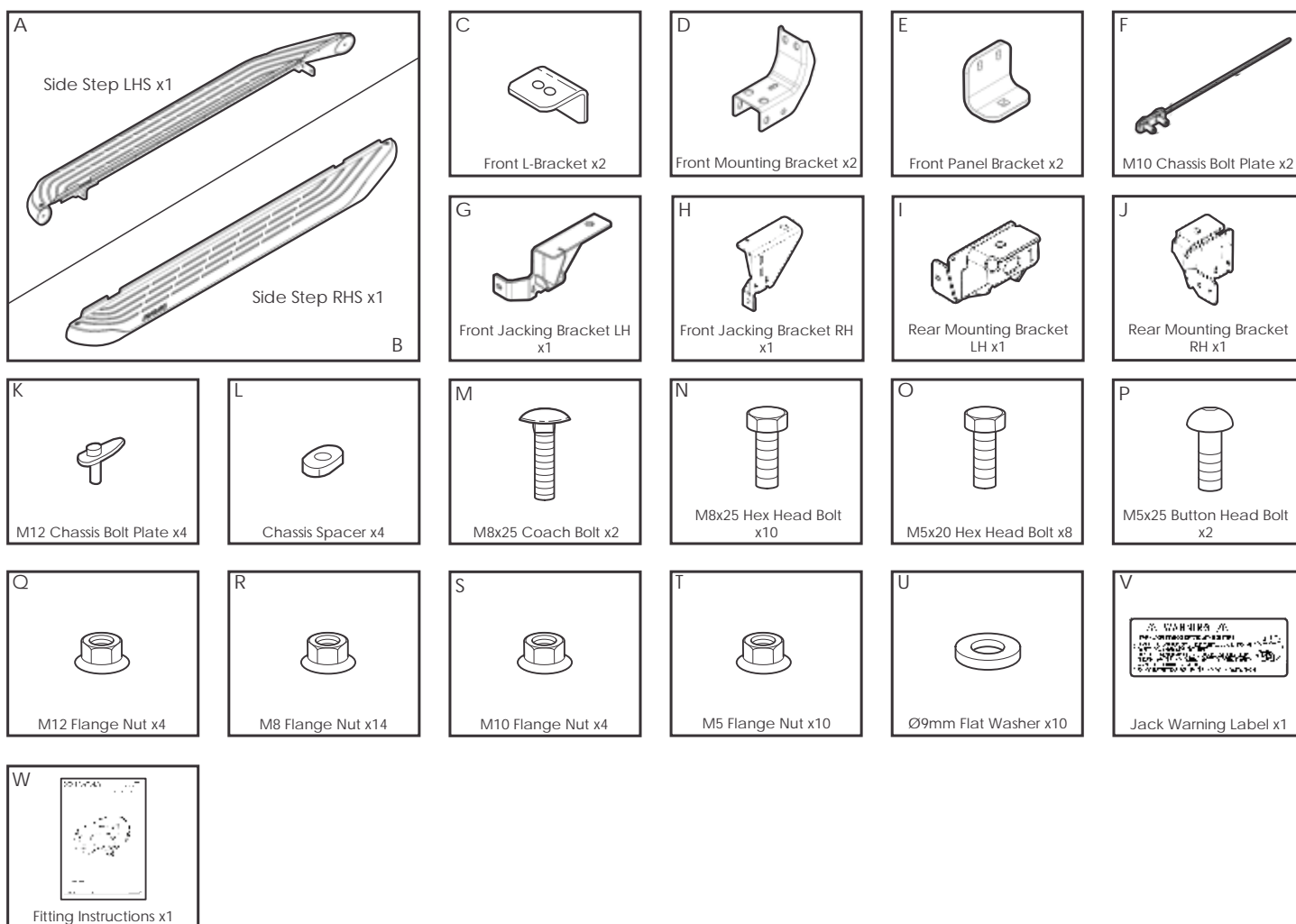


### Fitting Time

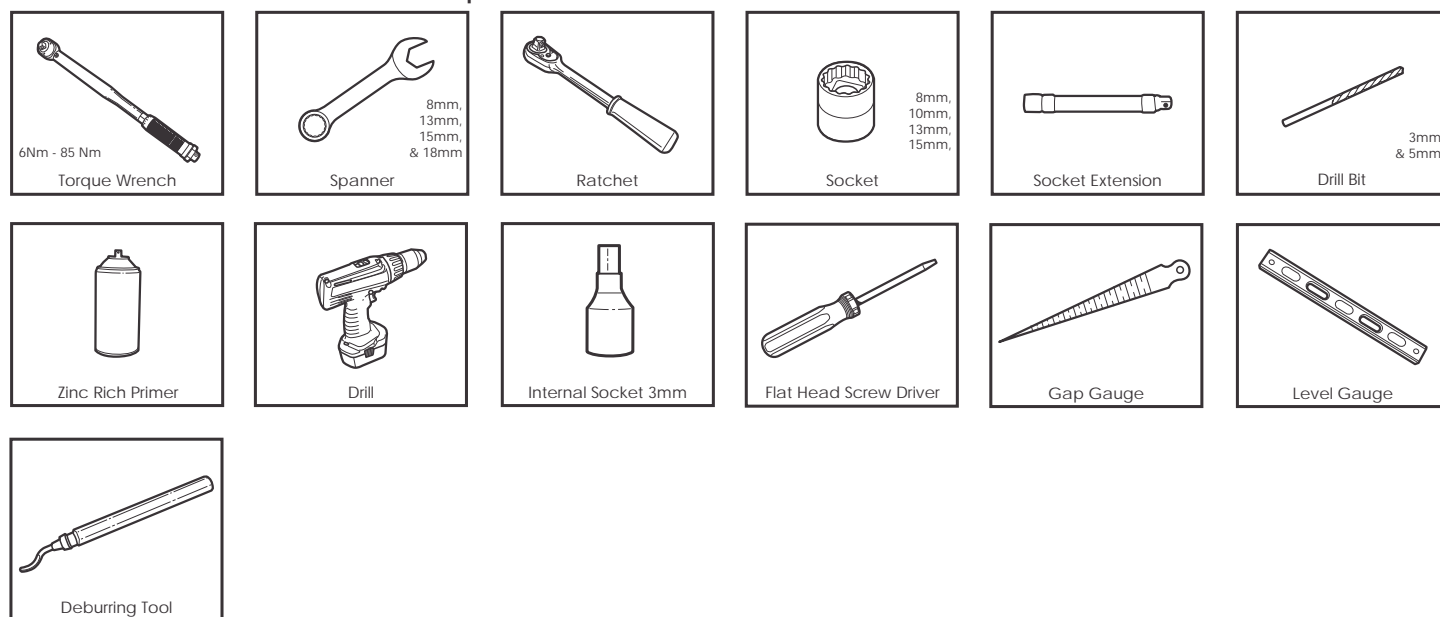


60 minutes

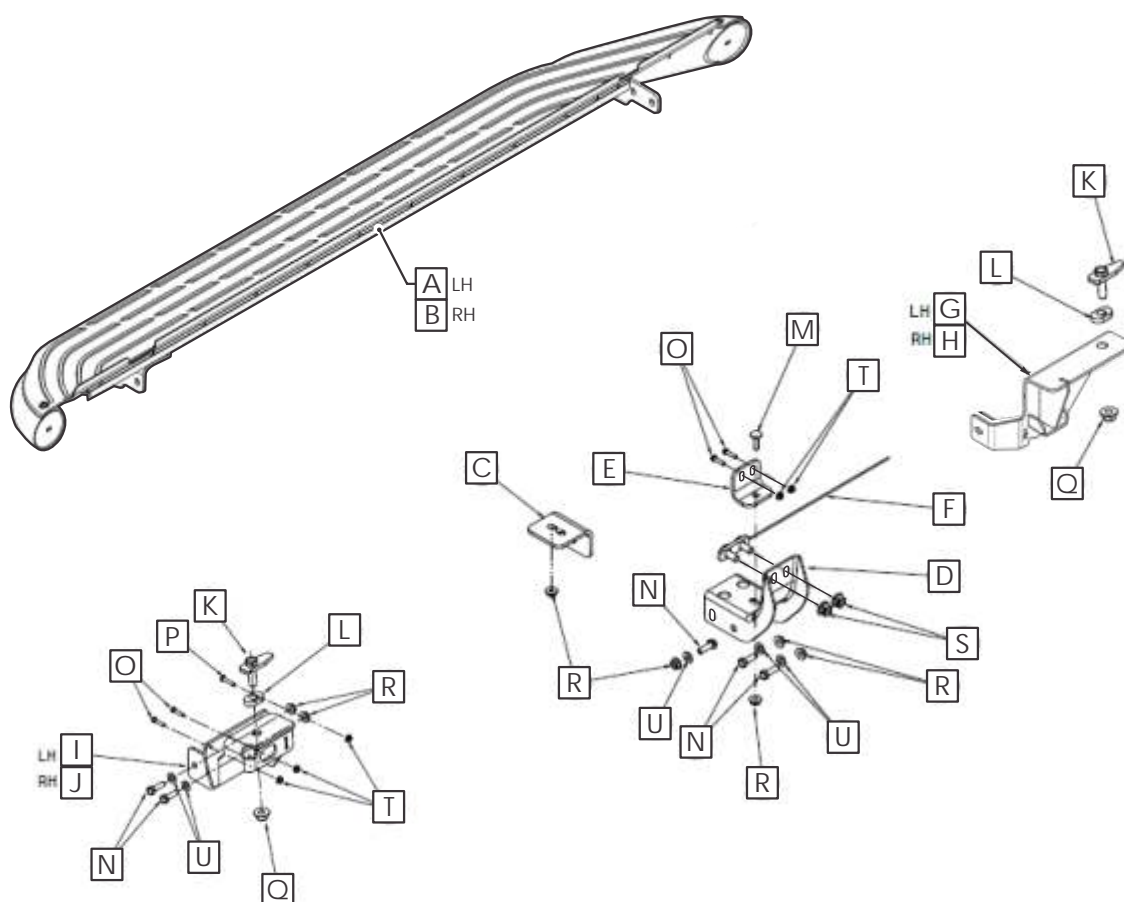
### Parts Supplied



### — Tools and Materials Required —



- Layout Diagram



### Bolt Torque Summary:-

M5	6Nm
M8	22Nm
M10	44Nm
M12	85Nm

### — Step 1

The following is for Diesel variant vehicles only. For all other vehicles proceed to Step 2.

- Remove the plastic undercover (1) as shown in Figure 1.

Tools Used:

- Ratchet & 10mm Socket.
- Flat Screw Driver

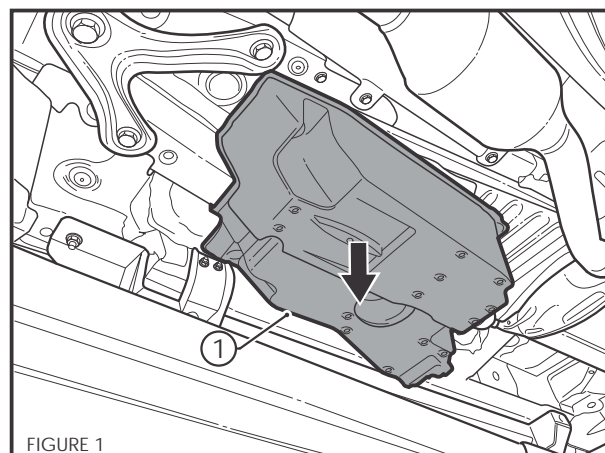


FIGURE 1

### — Step 2

Installation of Front Mounting Bracket.

- On the inside edge of the sill panels, peel away the round plug hole decals covering the two mounting holes and discard.
- You will have to identify the decals under the body sealer on the vehicle as shown in Figure 2.

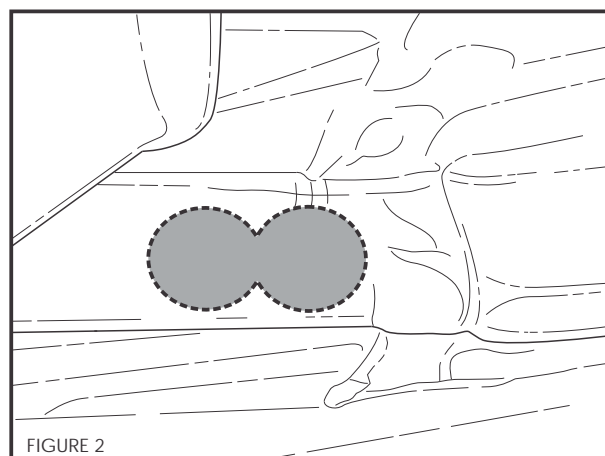


FIGURE 2

### — Step 3

- Figure 3 shows the mounting environment of the front chassis bracket.

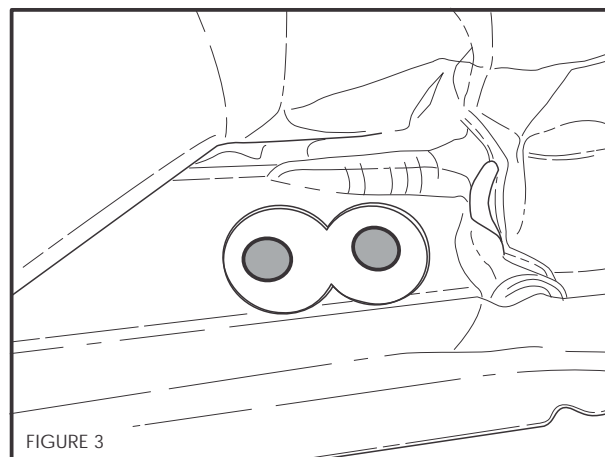
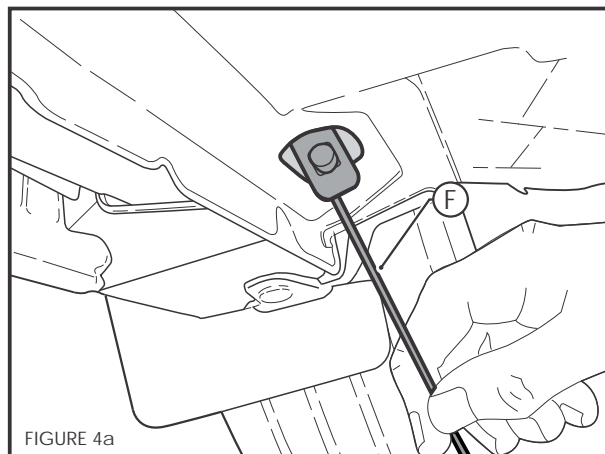
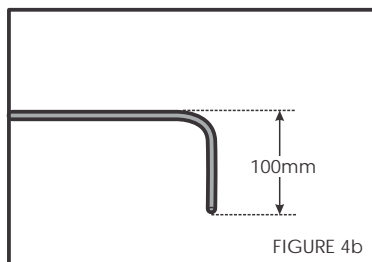


FIGURE 3

### — Step 4

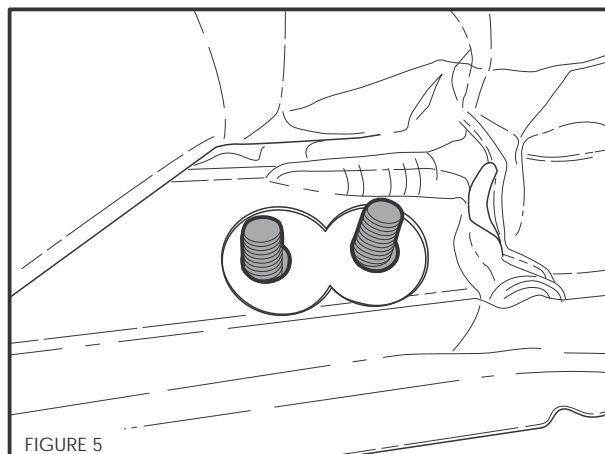
- Insert M10 Chassis bolt plate (Item F) into oval access opening in the body and feed it towards sill holes as shown in Figure 4a.

Hint: To ease the installation of the M10 Bolt plate, bend the end of the wire 90 degrees approx. 100mm in length to create a handle as shown in Figure 4b.



### — Step 5

- Align the bolt plate from the inside of the sill panel and feed the studs through the sill holes as shown in Figure 5.



### — Step 6

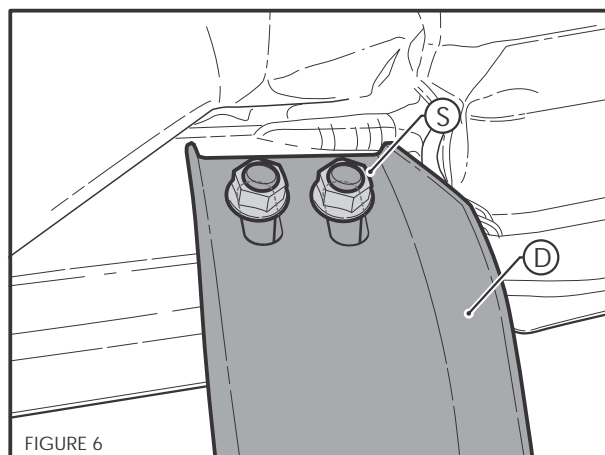
- Align the top edge of the slot of the Front Mounting Bracket (Item D) with the bolt plate studs and assemble M10 Flange Nuts (Item S) as shown in Figure 6.
- Using a 15mm socket, torque the M10 nuts to 44Nm.

Note: Check to ensure the top surface of the Front Mounting Bracket is parallel to vehicle sill panel.

#### Important



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



Tools Used:

- Torque Wrench & 15mm Socket.

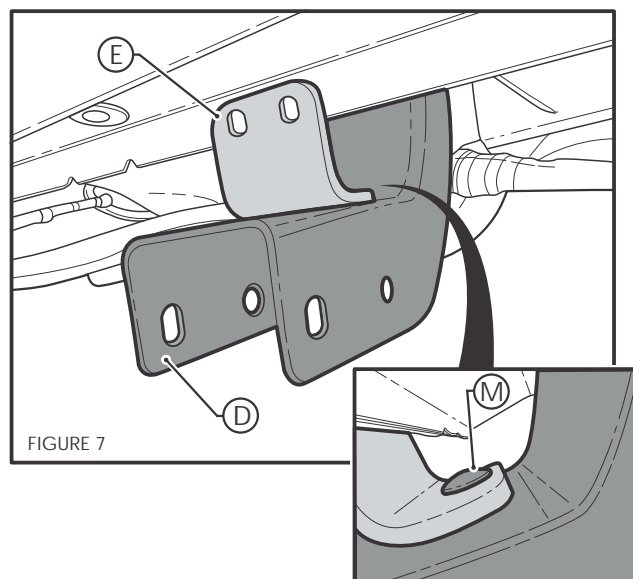
### – Step 7

- Assemble Front Panel Bracket (Item E) to the Front Mounting Bracket (Item D) using the M8 Coach Bolt (Item M), attach the M8 Flange Nut (Item R) as shown in Figure 7.
- 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 Used:

- Torque Wrench & 13mm Socket.



### – Step 8

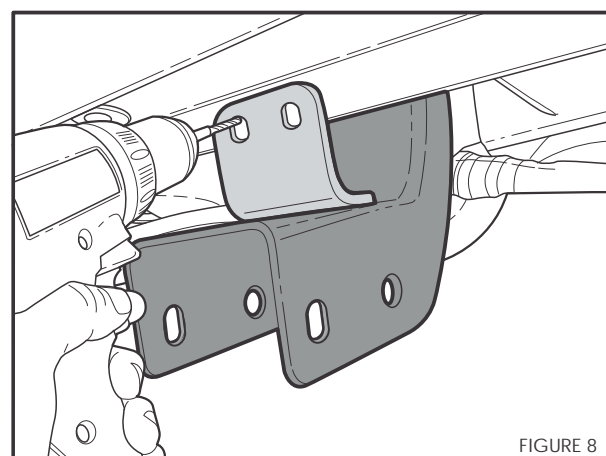
- Pre-drill 2-off 3.0mm diameter pilot holes through the panel bracket and into the vehicle sill flange as shown in Figure 8.
- Drill 2-off 5.0mm diameter holes through the panel bracket and into the vehicle sill flange.
- De-burr holes on the inner side of the sill panel and apply rust proofing in the holes.

Note: Drill around the top edge of the slot on the panel bracket as shown.

Hint: Use the 5mm Drill to mark the centre of the hole.

Tools Used:

- Power Drill, 3mm Drill Bit, 5mm Drill Bit, Deburring Tool, Zinc Rich Primer.



### – Step 9

- Fit the 2-off M5 Bolts (item O) through the flange bracket and assemble the M5 Flange Nuts (Item T) as shown in Figure 9.
- Using an 8mm socket, torque the M5 bolts to 6Nm.

Important

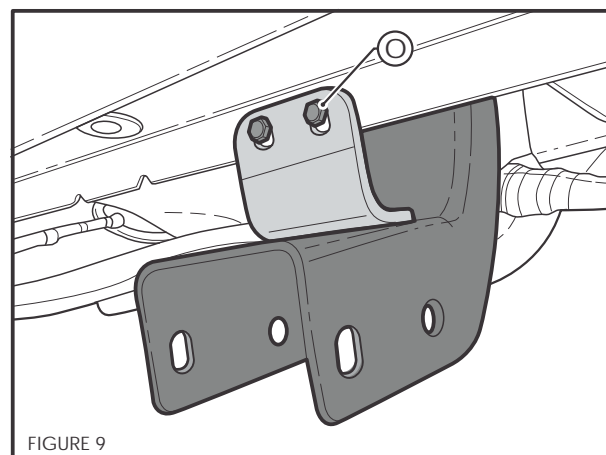


Bend back the excess wire and store inside the sill panel cavity. Ensure that the wire does not rattle when the vehicle is in motion.

- Repeat Steps 2 to 9 for other side.

Tools Used:

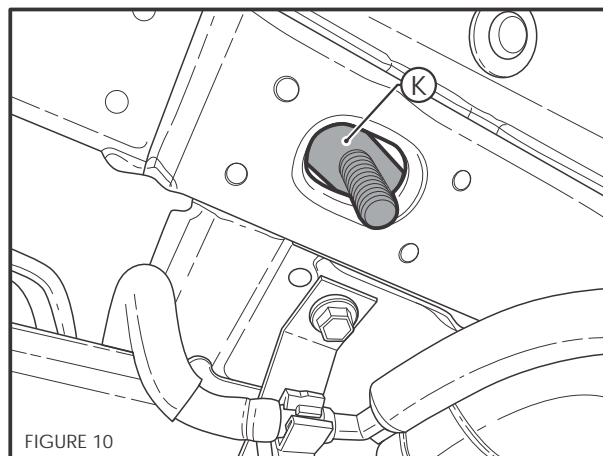
- Torque Wrench & 8mm Socket.



### – Step 10 –

#### Installation of Rear Mounting Bracket

- Insert M12 Chassis Bolt Plate (Item K) into oval access opening in the body as shown in Figure 10.



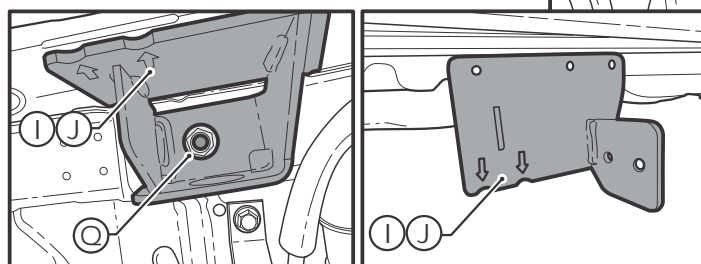
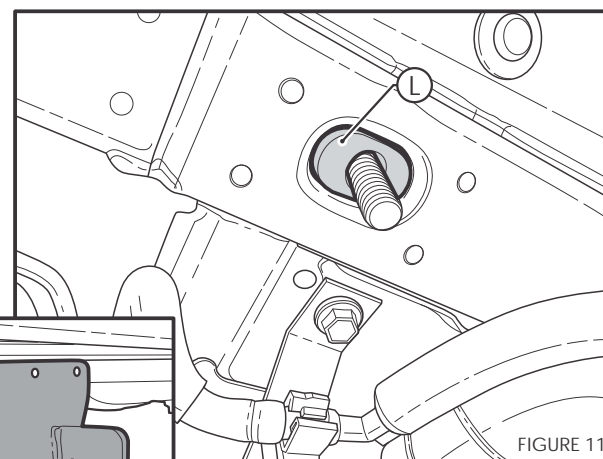
### – Step 11 –

- Insert Chassis Spacer (Item L), ensure it locates in oval recess as shown in Figure 11.
- Assemble Rear Mounting Bracket (Item I/J) with M12 Flange Nut (Item Q) and hand tighten only, ensuring the rear chassis bracket is sitting firmly against the sill panel flange.

#### Important



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



### – Step 12 –

- Offer the Side Step Assembly (Item A/B) to the fitted brackets to verify the position of the rear mounting bracket position as shown in Figure 12.
- Ensure the brackets on the step assembly rest firmly against the side step mounting brackets on the vehicle.

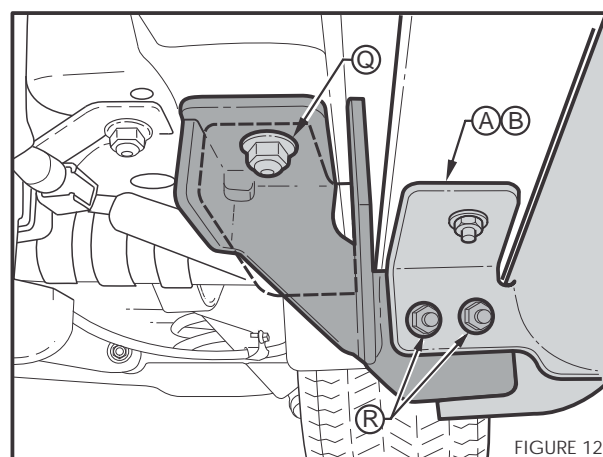
Note: The side step brackets will face/mount forwards to the vehicle side step brackets.

- Loosely assemble the M8 Bolts x4 (Item N) and M8 Nuts (Item R) and hand tighten only.
- Using an 18mm socket, torque M12 Flange Nuts (Item Q) x1 to 85Nm.

Note: Ensure the brackets are not turning away from sill panel flange while tightening.

Tools Used:

- Torque Wrench & 18mm Socket.



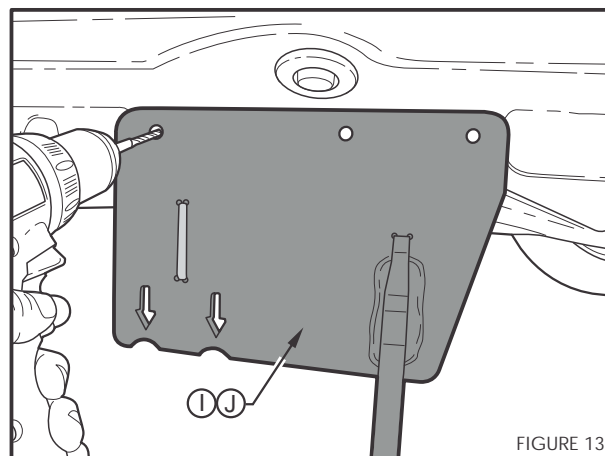


### — Step 13 —

- Remove side step assembly from mounting brackets.
- Pre-drill 3-off 3.0mm diameter pilot holes through the rear panel bracket and into the vehicle sill flange as shown in Figure 13.
- Drill 3-off 5.0mm diameter holes through the panel bracket and into the vehicle sill flange.
- De-burr holes on the inner side of the sill panel and apply rust proofing in the holes.

Tools Used:

- Power Drill, 3mm Drill Bit, 5mm Drill Bit, Deburring Tool, Zinc Rich Primer.



### — Step 14 —

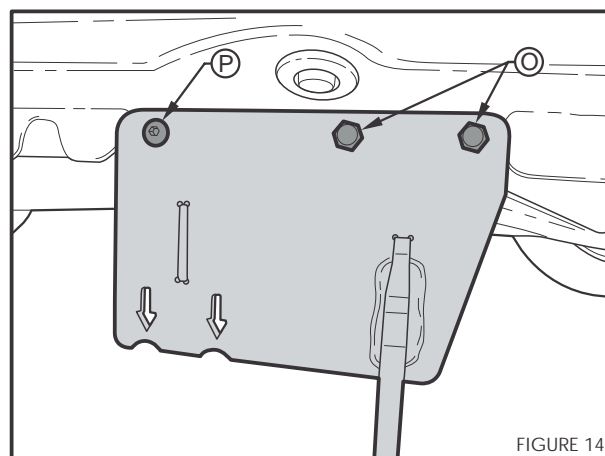
- Fit the M5 Hex Bolts x2 (Item O) and M5 Button Head Bolt x1 (Item P) through the Rear Panel Bracket and assemble the M5 Nuts (Item T) as shown in Figure 14.
- Using an 8mm socket and a 3mm Internal Socket, torque the M5 Bolts to 6Nm.

Note: The Button Head Bolt (Item P) locates in the front hole of the rear bracket (the Button Head Bolt is not visible when the side step is fitted).

- Repeat Steps 10 to 14 for the other side.

Tools Used:

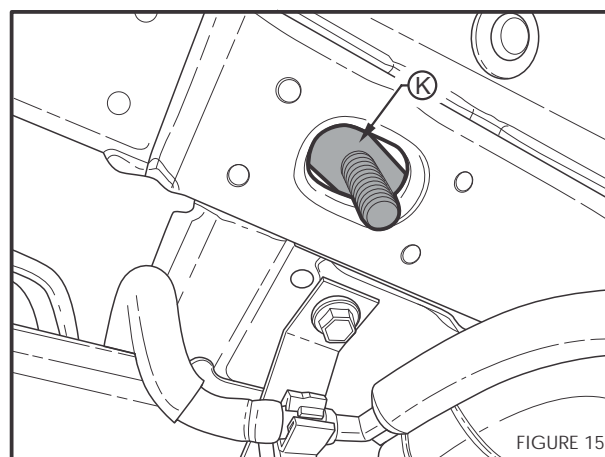
- Torque Wrench & 8mm Socket.
- Internal Hex Socket 3mm



### — Step 15 —

Installation of Front Jacking Bracket (Item G/H)

- Insert M12 Chassis Bolt Plate (Item K) into the front oval access opening in the body as shown in Figure 15.



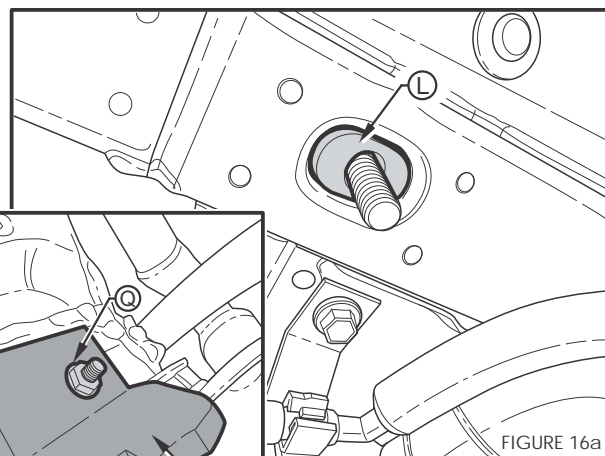
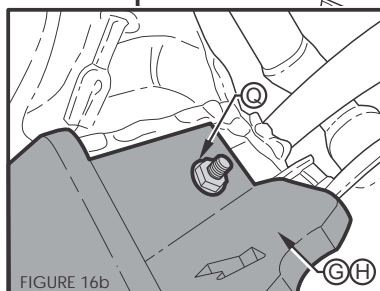
### – Step 16 –

- Insert Chassis Spacer (Item L) and ensure it locates in oval recess as shown in Figure 16.
- Assemble front jacking bracket (Item G/H) with M12 Flange Nuts (Item Q) and hand tighten only, ensure the jack bracket is sitting against the underside of the sill panel as shown in Figure 16b.
- Repeat Step 15 - 16 for the other side.

#### Important



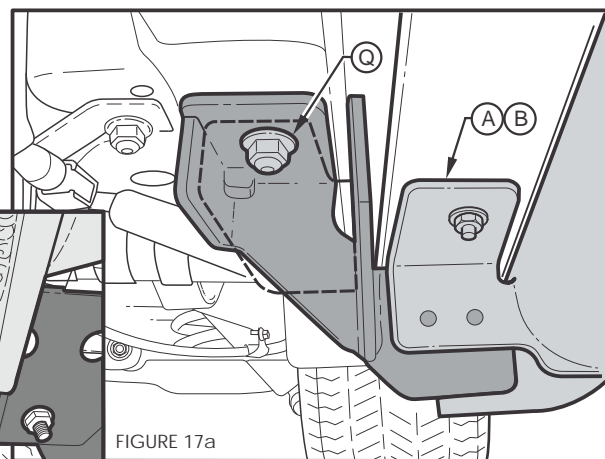
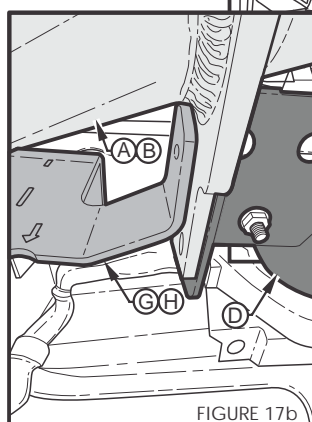
Remove excess body sealer around the mounting surface and apply rust proofing to the panel edges.



### – Step 17 –

#### Installation of Side Step Assembly

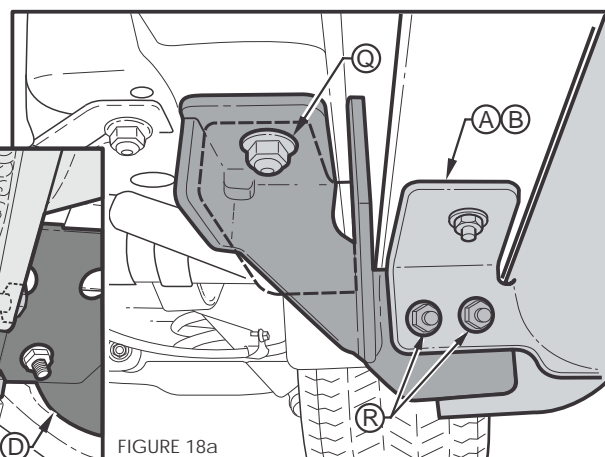
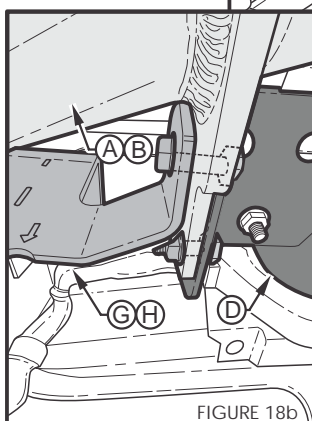
- Offer the Side Step Assembly to the mounting brackets.
- Align the holes in the side step brackets with the holes on the mounting brackets ensuring that the side step brackets are in front of the vehicle mounting brackets as shown in Figure 17a and 17b.



### – Step 18 –

- Loosely assemble the 2x rear and 2x front M8 Bolts (Item N), Flat Washers (Item U) and nuts (Item R) as shown in Figure 18a and 18b.

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



### — Step 19 —

- Adjust step to vehicle doors ensuring that a minimum gap condition of 10mm is maintained between the step and the doors. Ensure the step is level as shown in Figure 19.
- Using a Torque Wrench and 13mm Socket, torque all M8 Nuts to 22Nm.
- Using a Torque Wrench and 18mm Socket, torque Front Jacking Bracket M12 Flange Nut (Item Q) to 85 Nm.

Tools Used:

- Torque Wrench & 13mm Socket.
- Torque Wrench & 18mm Socket.
- Level Gauge & Gap Gauge.

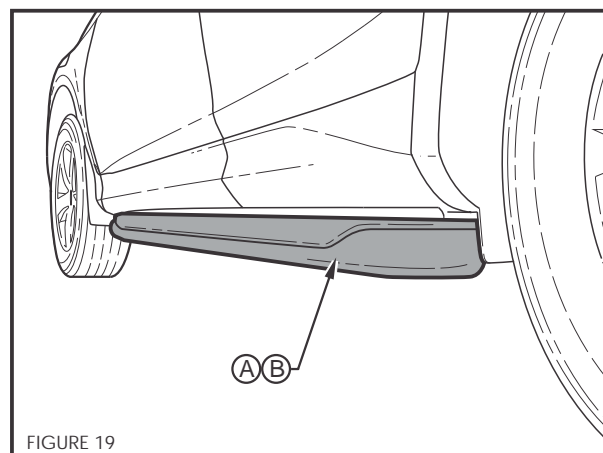


FIGURE 19

### — Step 20 —

- Assemble the Front L-Bracket (Item C) to underside of the Side Step (Item A/B) with M8 Flange Nut (Item R) as shown in Figure 20.
- Assemble the Front L-Bracket (Item C) to the Front Mounting Bracket (Item D) with M8 Bolt (Item N), Washer (Item U) and Nut (Item R) as shown in Figure 20.
- Ensure the M8 washer is under the bolt head.

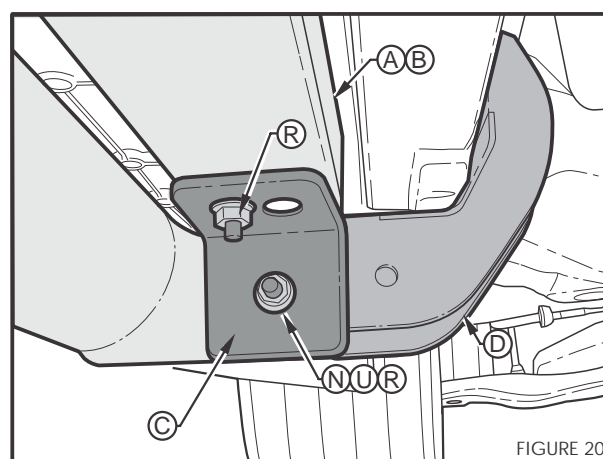


FIGURE 20

### — Step 21 —

- Using a 13mm socket, torque M8 nuts to 22 Nm as shown in Figure 21.
- Repeat Steps 17 to 21 for the otherside.

Tools Used:

- Torque Wrench & 13mm Socket.

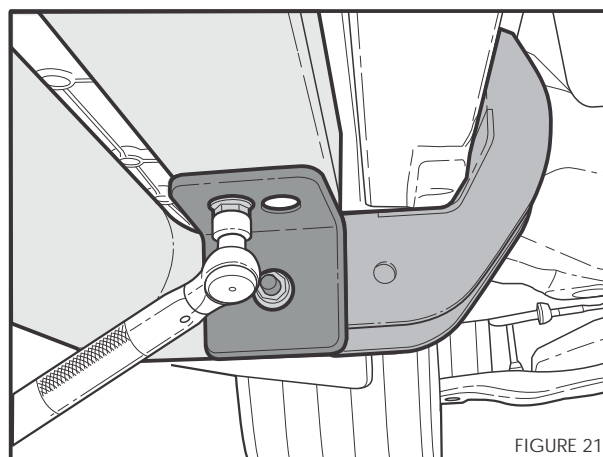


FIGURE 21

### — Step 22 —

The following step is for Diesel variant vehicles only. For all other vehicles proceed to Step 23.

- Re-install the plastic undercover (1) as shown in Figure 22.

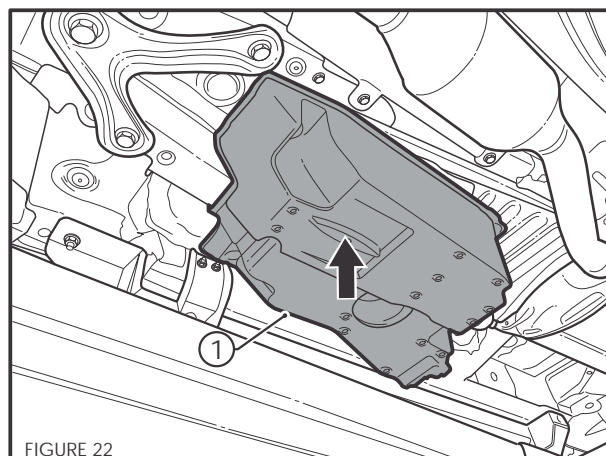


FIGURE 22

### — Step 23 —

- Attach the Jack Warning Label (Item V) to the vehicle jack. Ensure existing label on the jack is covered by the new Jack Warning Label as shown in Figure 23.



Place the Fitting Instructions in the glove box after installation is completed.

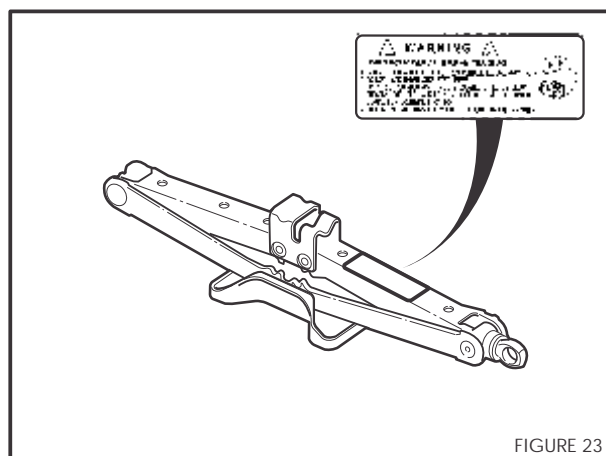


FIGURE 23