



# FITTING INSTRUCTIONS

Part Number: **5415200**

Product Description: UNDER VEHICLE PROTECTION

Suited to vehicle/s: TOYOTA LAND CRUISER 200 SERIES

4.5L V8 TWIN TURBO DIESEL 10/150N

**Please place these instructions in vehicle glove box when complete.**

## **WARNING**

### **REGARDING VEHICLES EQUIPPED WITH SRS AIRBAG:**

When installed in accordance with these instructions, the vehicle protection panels do not affect operation of the SRS airbag.

### **ALSO, NOTE THE FOLLOWING:**

- ◆ This product must be installed exactly as per these instructions using only the hardware supplied.
- ◆ Do not use this product for any vehicle make or model, other than those specified by ARB.
- ◆ Do not remove labels (if any) from this product.
- ◆ This product or its fixing must not be modified in any way.
- ◆ The installation of this product may require the use of specialized tools and/or techniques
- ◆ These instructions are correct as at the publication date. ARB Corporation Ltd. cannot be held responsible for the impact of any changes subsequently made by the vehicle manufacturer
- ◆ During installation, it is the duty of the installer to check correct operation/clearances of all components
- ◆ Work safely at all times
- ◆ Unless otherwise instructed, tighten fasteners to specified torque

◆ **IMPORTANT: Routinely inspect and ensure that there is NO trapped material between the Diesel Particulate Filters (DPF's) and the DPF Covers**

## **ARB 4x4 ACCESSORIES**

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# IMPORTANT INFORMATION. GENERAL CARE AND MAINTENANCE

By choosing ARB vehicle protection, you have bought a product that is one of the most sought after 4WD products in the world. Your under vehicle protection panels are a properly engineered, reliable, quality accessory that represents excellent value.

- While these panels have been engineered for strength and functionality care and good judgment should be taken when traversing difficult off-road conditions to minimise damage to panels and vehicle.
- During servicing when panels are removed ensure fasteners are re-fitted to the correct torque values.
- Visually inspect the panels and Diesel Particulate Filter (DPF) covers on a regular basis. Dirt and foreign matter must be washed out to minimise build-up around hot components, especially around the Diesel Particulate Filters. BE VERY CAREFUL when removing foreign matter with hands while vehicle is hot or running. Replace any components as necessary. This service can be performed by your local authorized ARB Stockist.

## FITTING REQUIREMENTS

### REQUIRED TOOLS FOR FITMENT OF PRODUCT:

<b>BASIC TOOL KIT</b>	<b>HOIST</b>
<b>TORQUE WRENCH 9 – 88Nm</b>	<b>JACK STAND</b>

### HAVE AVAILABLE THESE SAFETY ITEMS WHEN FITTING PRODUCT:

<b>Protective eyewear</b>	
<b>Hearing protection</b>	

**NOTE: ‘WARNING’ notes in the fitting procedure relate to OHS situations, where to avoid a potentially hazardous situation it is suggested that protective safety gear be worn or a safe work procedure be employed. If these notes and warnings are not heeded, injury may result.**

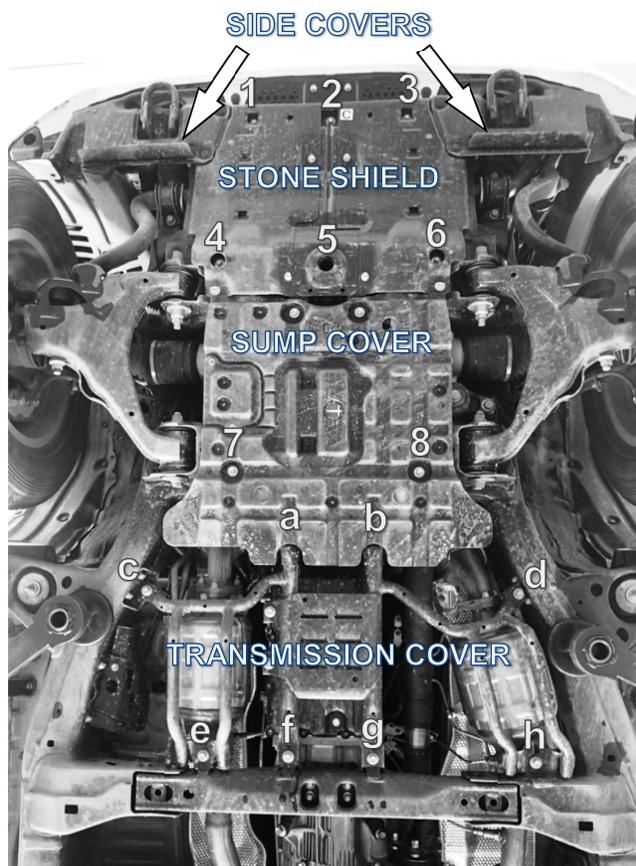
### FASTENER TORQUE SETTINGS (unless otherwise specified):

SIZE	Torque Nm	Torque lbft
M6	9	7
M8	22	16
M10	44	32
M12x1.25	88	61

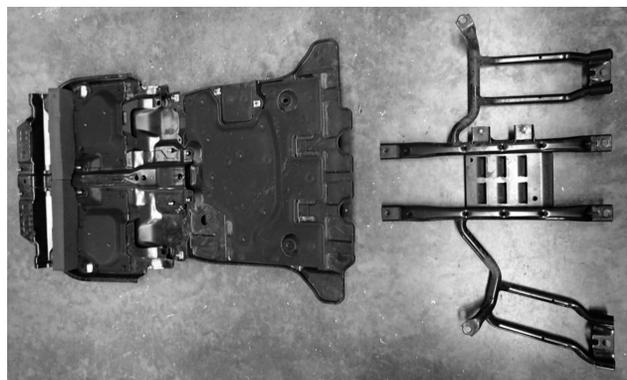
<b>PARTS LISTING</b>			
<b>APPLICATION.</b>	<b>PART NO.</b>	<b>QTY.</b>	<b>DESCRIPTION.</b>
FIT FRONT PANEL TO CHASSIS	6522956	1	PANEL ASSEMBLY FRONT UVP
	6151300	2	NUT CAGED M6
	6151022	5	BOLT M8x1.25x25
	4581046	5	WASHER SPRING M8
	4581044	5	WASHER FLAT M8
	6151213	2	BOLT M6x1.0x20
	4581287	2	WASHER SPRING M6
	4581082	2	WASHER FLAT M6
FIT OIL DRAINAGE BRACKET TO SUMP PANEL	3759442	1	BRACKET OIL DRAINAGE
	6151256	2	SCREW BTN HD M6
	4581304	2	WASHER FLAT M6
	6151128	2	NUT FLANGE M6
FIT SUMP PANEL TO CHASSIS	6523106	1	PANEL ASSY SUMP UVP LC200 15ON
	6151022	2	BOLT M8x1.25x25
	4581046	2	WASHER SPRING M8
	4581044	2	WASHER FLAT M8
	6151040	2	BOLT M10x1.25x30
	4581048	2	WASHER SPRING M10
	4581040	2	WASHER FLAT M10
FIT TRANSMISSION BRACKET TO CHASSIS	3759910	1	BKT ASY TRNS UVP 200SER10/15ON
	6151680	2	BOLT M12X1.25X130
	4581064	2	WASHER SPRING M12
	4581049	8	WASHER FLAT 1/2"
	6151083	2	BOLT M8x1.25x35
	4581046	2	WASHER SPRING M8
	4581063	2	WASHER FLAT M8x25x3
FIT TRANSMISSION PANEL TO CHASSIS & TRANSMISSION BKT	6523103	1	PANEL ASSY TRANS UVP V8 DIESEL
	6151040	4	BOLT M10x1.25x30
	4581048	4	WASHER SPRING M10
	4581040	4	WASHER FLAT M10
	6151478	2	FLANGE NUT M10x1.25
FASTENERS CONNECTING FRONT & SUMP PANEL	6151022	3	BOLT M8x1.25X25
	4581046	3	WASHER SPRING M8
	4581044	3	WASHER FLAT M8
	6151132	2	FLANGE NUT M8x1.25
FASTENERS CONNECTING SUMP & TRANSMISSION PANEL	4581044	3	WASHER FLAT M8
	4581046	3	WASHER SPRING M8
	6151022	3	BOLT M8x1.25X25
	6151132	3	FLANGE NUT M8x1.25
FIT COVER DPF LH TO CHASSIS & TRANSMISSION PANEL	4721844	1	COVER DPF LH UVP LC200 10/15ON
	6151040	2	BOLT M10x1.25x30
	4581048	2	WASHER SPRING M10
	4581040	2	WASHER FLAT M10
	6151022	4	BOLT M8x1.25x25
	4581046	4	WASHER SPRING M8
	4581063	4	WASHER FLAT M8x25x3
	6151132	4	FLANGE NUT M8x1.25

FIT COVER DPF RH TO CHASSIS & TRANSMISSION PANEL	4721840	1	COVER DPF RH UVP LC200 10/150N
	6151040	2	BOLT M10x1.25x30
	4581048	2	WASHER SPRING M10
	4581040	2	WASHER FLAT M10
	6151022	4	BOLT M8x1.25x25
	4581046	4	WASHER SPRING M8
	4581063	4	WASHER FLAT M8x25x3
	6151132	4	FLANGE NUT M8x1.25

## FITTING PROCEDURE – PREPARATION



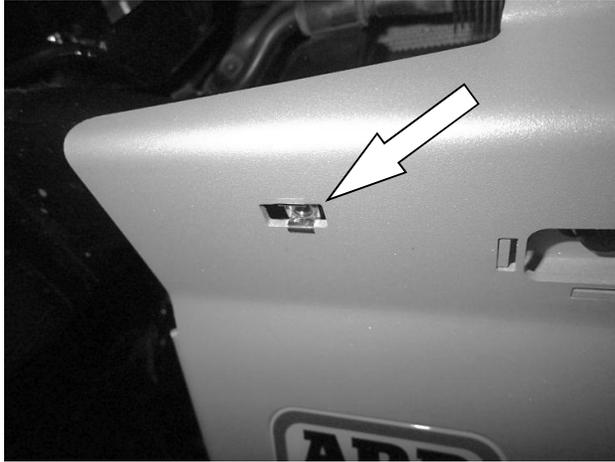
Factory under vehicle protection on car



Factory under vehicle protection - REMOVED

1. Remove factory side covers surrounding tow hooks if fitted.
2. Remove factory stone shield & sump cover (as one) from vehicle. (8 SEMS Screws numbered 1 to 8 at left)  
  
***Note:** If vehicle is being fitted with an ARB bull bar, remove bash plate (6 bolts). Retain four front screws.*
3. Remove factory transmission cover. (8 SEMS Screws labelled "a" to "h" at left)

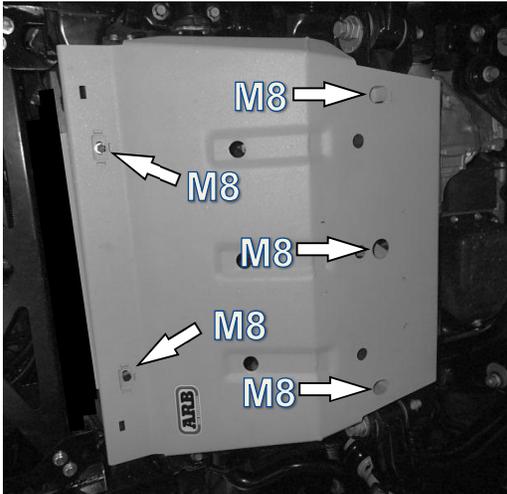
## FITTING PROCEDURE – INSTALLATION



Fit cage nuts to front panel  
(RH shown)

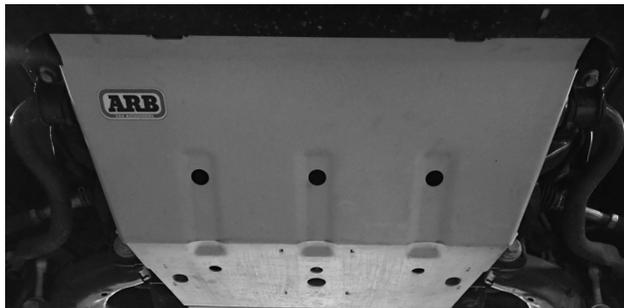
4. Place 2x M6 cage nuts supplied in Front Panel cavities.

*NOTE: This step is only required for vehicles fitted with an ARB bull bar.*

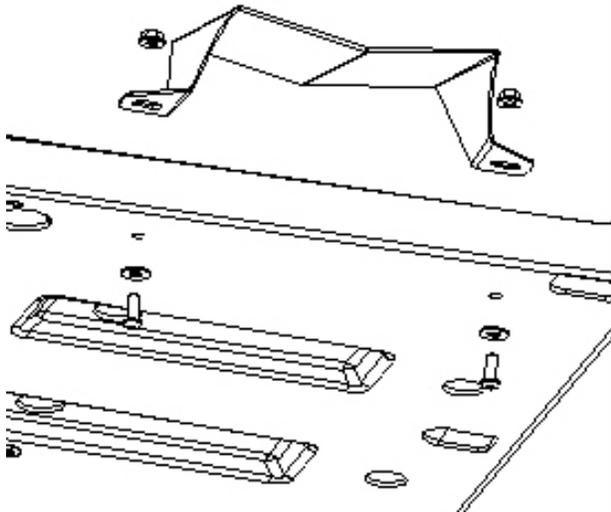


Fit front panel to vehicle

5. Fit Front Panel to vehicle using M8 hardware outlined in the parts listing on pg3 under 'FIT FRONT PANEL TO CHASSIS'.  
**Loosely fasten.**

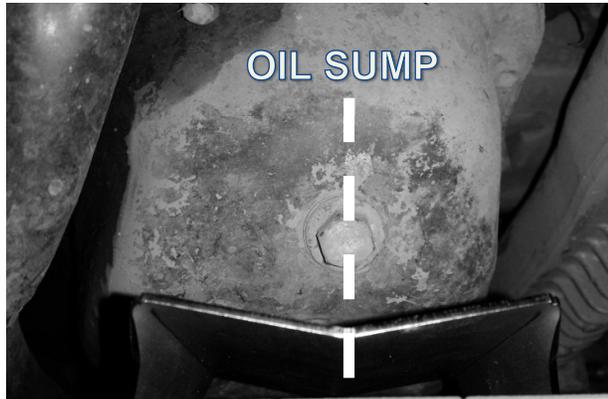


Front panel fitted to vehicle



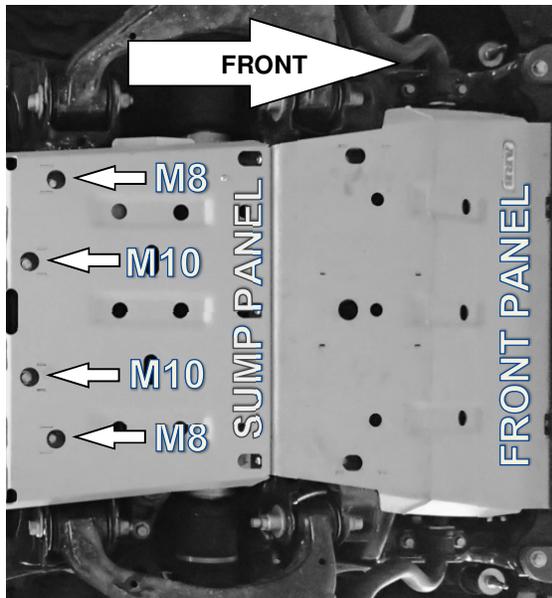
Fasten oil drainage bracket to diff panel

- Loosely fasten oil drainage bracket to Sump Panel with slope running downwards towards right side of vehicle. Use M6 fasteners listed on pg 3 under 'FIT OIL DRAINAGE BRACKET TO SUMP PANEL'.



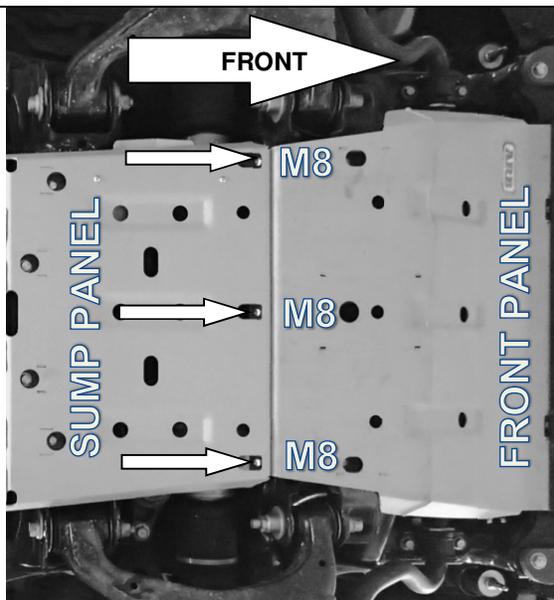
Align Oil Drainage Bracket with sump plug bolt

- Once bracket is aligned with oil sump, tighten fasteners listed in step 6.



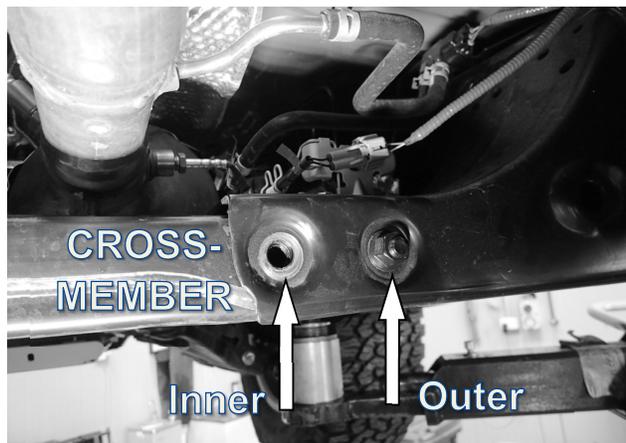
Fit Sump Panel to vehicle

- Fit Sump Panel to vehicle using 2x M8 & 2x M10 hardware outlined in the parts list on pg3 under 'FIT SUMP PANEL TO CHASSIS'.  
**Loosely fasten.**



**Fasten Sump Panel to Front Panel**

9. **Loosely fasten** Sump Panel to Front Panel using 3x M8 hardware outlined in the parts listing on pg3 under 'FASTENERS CONNECTING FRONT & SUMP PANEL'.



**Remove inner bolts only (RHS shown)**

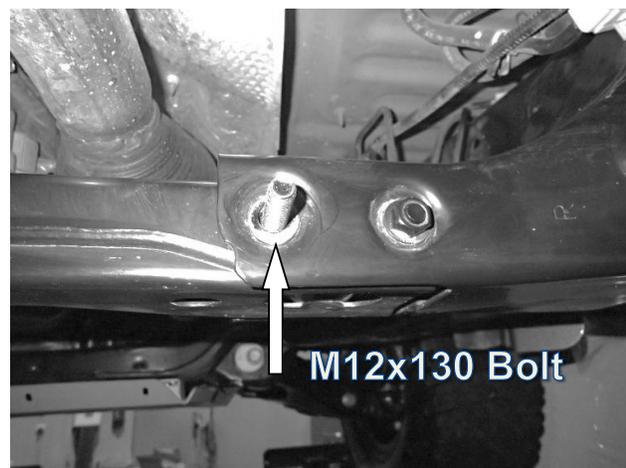
10. Remove transmission cross-member bolts as follows;
  - a. RHS; Remove & discard Inner bolt.
  - b. LHS; Remove & discard Inner bolt.

**NOTE:** Leave all outer bolts and nuts in place.

11. Place OE factory nuts aside for re-use.



Support cross-member with a jack stand for extra support.



**Position inner bolts (RHS SHOWN)**

12. Position 2x M12 bolts and washers in place of the inner bolts removed in step 12 outlined in parts listing on pg3 under 'FIT TRANSMISSION BRACKET TO CHASSIS'.

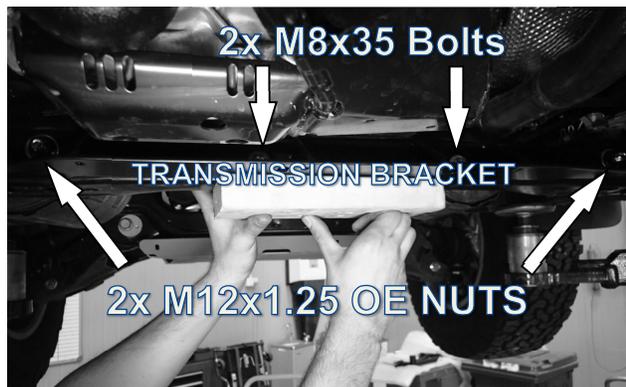
Install as follows;

- a. LHS = 1x M12x1.25x130 (INNER)
- b. RHS = 1x M12x1.25x130 (INNER)



**Add 2x Washers to each M12 Inner Bolt (RHS SHOWN)**

- Place 2x washer flat 1/2" onto each bolt against the cross-member to act as spacers.



**Fit Transmission Bracket**

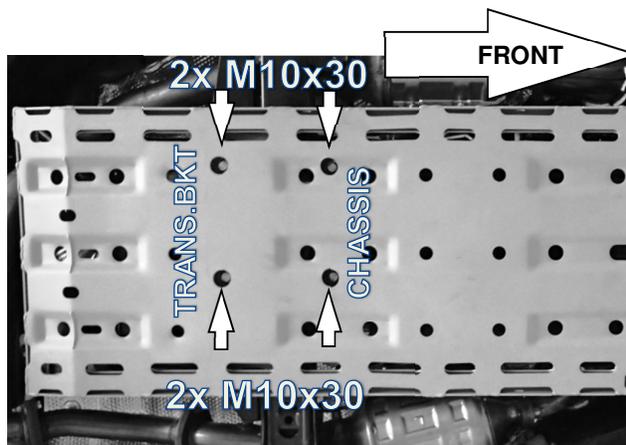
- Fasten Transmission Bracket to chassis using 2x M8 Bolts and Washers listed on pg3 under 'FIT TRANSMISSION BRACKET TO CHASSIS' and the OE factory M12 nuts removed in STEP 10. Align lower surface of Bracket with chassis cross-member before tightening.



**M8 - 22Nm**

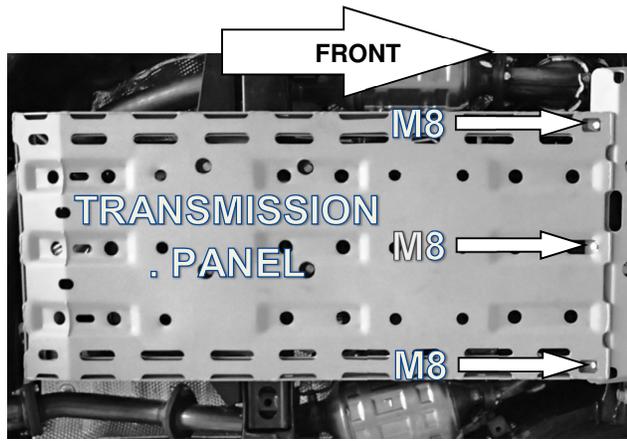


**M12x1.25 - 88Nm**



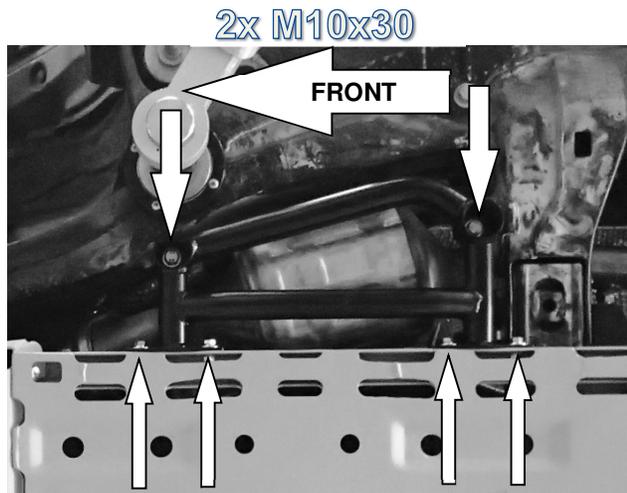
**Fit Transmission Panel to Vehicle**

- Loosely fasten** Transmission Panel to Transmission Bracket using 2x M10 bolts, washers, spring washers and flange nuts listed on pg3 under 'FIT TRANSMISSION PANEL TO CHASSIS & TRANSMISSION BRACKET'.
- Loosely fasten** Transmission Panel to vehicle using 2x M10 bolts, washers and spring washers listed on pg3 under 'FIT TRANSMISSION PANEL TO CHASSIS & TRANSMISSION BRACKET'.



Connect Transmission & Sump Panels

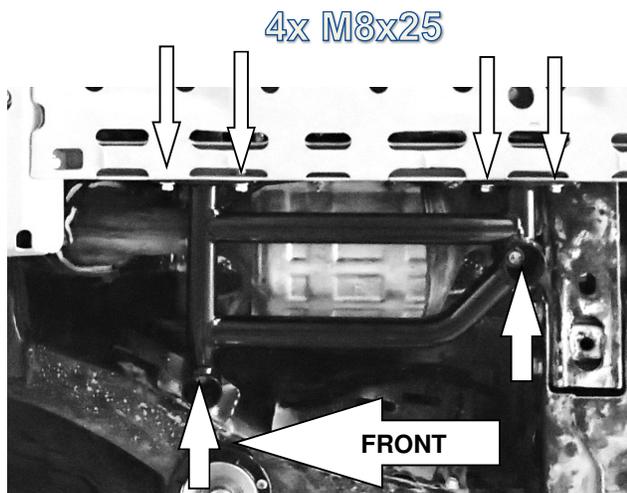
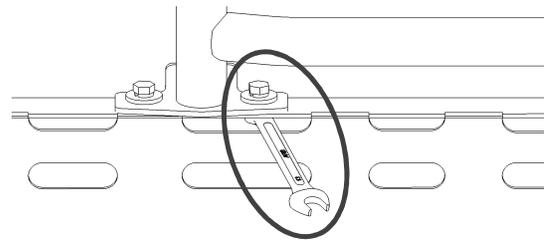
17. **Loosely fasten** Transmission Panel to Sump Panel using 3x M8 hardware listed on pg3 under 'FASTENERS CONNECTING SUMP & TRANSMISSION PANELS'.



Fit Cover DPF LH

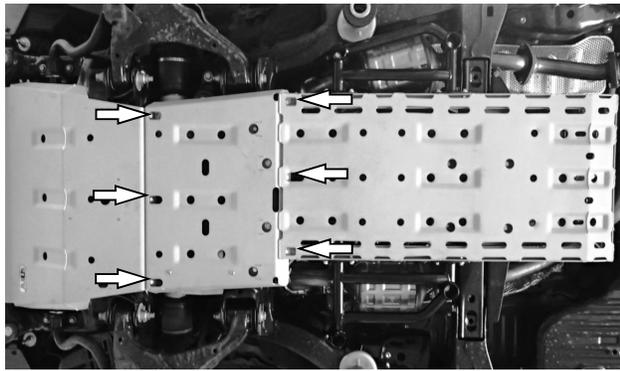
18. **Loosely fasten** COVER DPF LH with 2x M10 hardware to chassis and 4x M8 hardware to Transmission Panel listed on pg3 under 'FIT COVER DPF LH TO CHASSIS & TRANSMISSION PANEL'.

**HINT:** Use a 13mm ring spanner to position the M8 flange nuts inside the Transmission Panel during assembly of the DPF Covers.



Fit Cover DPF RH

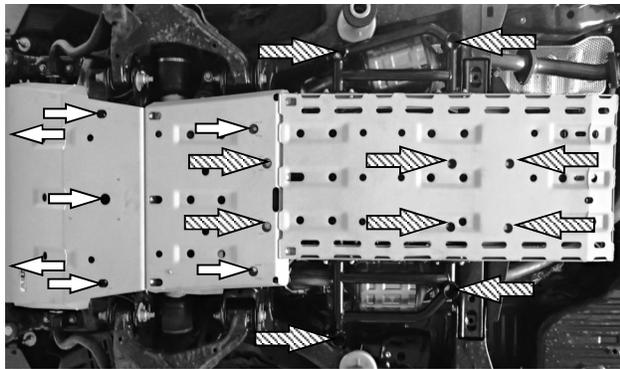
19. **Loosely fasten** COVER DPF RH with 2x M10 hardware to chassis and 4x M8 hardware to Transmission Panel listed on pg4 under 'FIT COVER DPF RH TO CHASSIS & TRANSMISSION PANEL'.



**Tighten M8 fasteners connecting each Panel**

20. Align the Front, Sump & Transmission Panels and when level, tighten the M8 bolts connecting each of them together.

 **M8 - 22Nm**

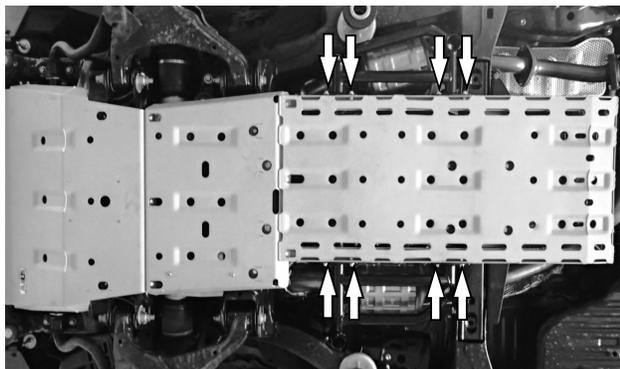


**Tighten M8 & M10 hardware to vehicle**

21. Tighten the M8 & M10 hardware connecting each of the Panels and DPF Covers to the vehicle.

 **M8 - 22Nm** 

 **M10 - 44Nm** 



**Tighten all M8 DPF hardware to Trans. Panel**

22. Tighten the M8 hardware connecting each of the DPF Covers to the Transmission Panel sides.

 **M8 - 22Nm**



**Refit bash plate**

23. Re-fit ARB bash plate (if fitted) using 4x M6 screws retained in step 2 during removal together with 2x M6 hardware supplied with this kit.

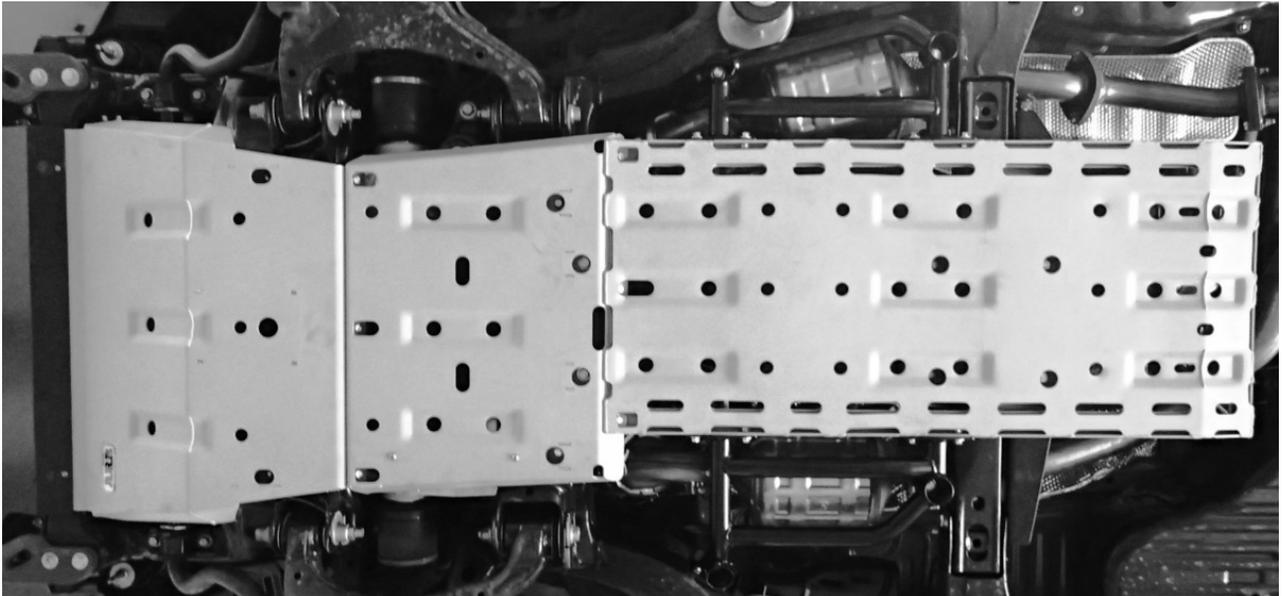
 **M6 - 9Nm**

## FITTED PRODUCT

FRONT VIEW



BOTTOM VIEW



**NOTE: Views Show ARB UVP fitted (With optional Bull Bar & Recovery Points)**