



FLEXIGLASS FITTING MANUAL - SECTION 3.6B

FLEXIGLASS TRAY NISSAN NAVARA D40 DC FIT - ISSA2

Note: Familiarise yourself with the instructions before you start to ensure you are clear on all aspects of the fit

SAFETY EQUIPMENT

- Hearing protection as required
- Eye protection as required

TOOLS REQUIRED

- Pneumatic / electric drill
- Pneumatic / electric hacksaw
- Drill bits: 21/64", 1/4" & 3/16"
- Sockets: 10, 13 & 18
- Toledo cable strippers
- Pneumatic driver
- Rivet gun with 5mm tip
- Loctite 243
- 2 of Adjustable wrenches.
- Wurth Cable strippers

These instructions will be suitable for the Flexiglass Deluxe Tray with the substitution of 4 of PAN500 mudguard panels in place of 2 each PAN440 & 450.

This D40 specific fit kit also includes 4 reinforcement sections that must be fitted due to incidences of cracked bearers reported by previous customers.

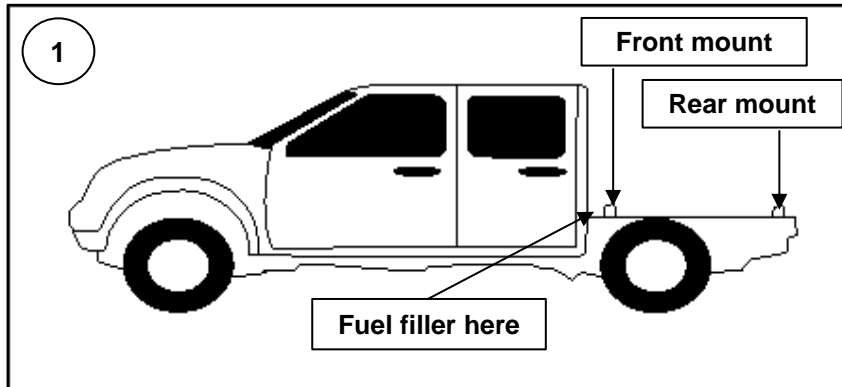
TRFITD40D Tray Fit Navara D40 DC - Kit BOM

Type	No.	Description	Quantity per	Unit of Measure Code
Item	BLK200C	Block For Cross Bars 40MM Coat	4	EACH
Item	BLTHHZP1290	Bolt & Nut Hex ZP 12X90mm	4	EACH
Item	NUT12C	Nut Channel M12	4	EACH
Item	NUT6N	Nut Nyloc M6	23	EACH
Item	NUT8N	Nut Nyloc M8	8	EACH
Item	PLT390C	Fish Plate forTrayBearers Coat	2	EACH
Item	SCRHHSS620	Screw Set Hex Head S/S 6x20mm	23	EACH
Item	SCRHHSS825	Screw Set Hex Head S/S 8x25mm	8	EACH
Item	SPACER40	Mounting Cross Bar Spacer	6	EACH
Item	SPACER60	Plastic Packer Spacer 4.5	2	EACH
Item	TIE100	Tie Cable BLK 4.8x300mm	6	EACH
Item	WSH220	Washer 5/16 X 3/4 Flat	8	EACH
Item	WSH240	Washer 1/2X 1 1/8 ZP Flat	4	EACH
Item	WSH300	Washer Spring Z/P 12x2.5x2.5mm	4	EACH
Item	BAR310FC	Bar Universal Cross Mount Coat	2	EACH
Item	SPACER50	Spacer Mounting Block 10MM	2	EACH
Item	WSH10	Washer BRT Z/P 1/2x1-7/8x14G	4	EACH
Item	FUELSTAY10	Fuel Neck Hilux Stay	1	EACH
Item	WSH180	Washer Brt Z/P 1/4x5/8x18G	4	EACH
Item	TRSTDFITKIT	Tray STD Fitting Kit	1	KIT
Item	BRACE428	Bearer Reinforcement 428mm	4	EACH
Item	BLTHHZPF616	Bolt Hex Head Flanged Zp 6x16	32	EACH
Item	NUT6N	Nut Nylon Insert Lock 6MM ZP	32	EACH

When removing the well body from the vehicle cut the wiring to the rear lights between the multi connector and the lights.

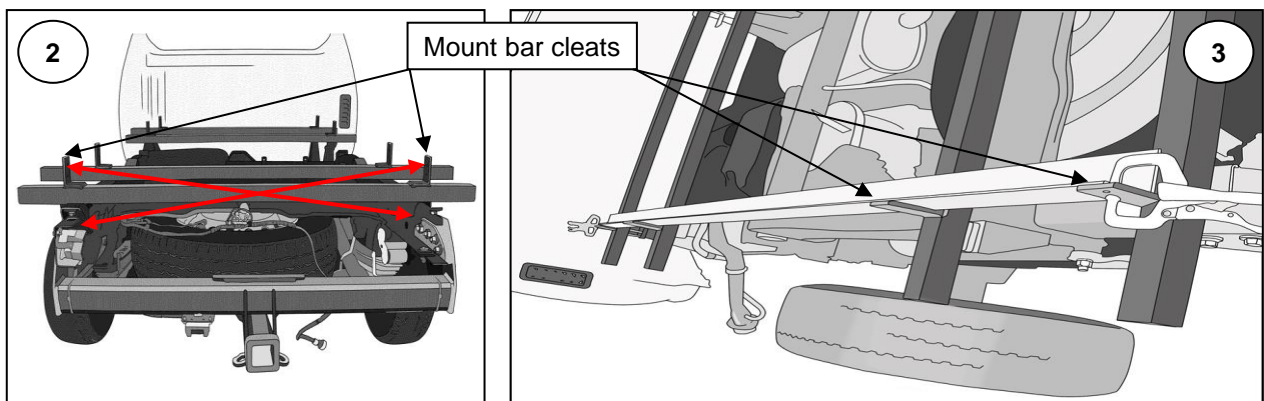
When the replacement lights are connected to these short lengths the lights will then be easily connected/disconnected using the multi connectors on the vehicle wiring harness.

- 1 Refer to **ILL 1** showing dual cab D40 Navara mounting positions. Locate these positions on the vehicle.
Note: All mount points on the vehicle must be used when fitting a Flexiglass Tray.
- 2 Refer to mount diagrams on **Page 3** which illustrates standard part usage for mounts on D40 NAVARA and Flexiglass Tray.
- 3 Fit the mounts in place on the chassis, using the parts and applying lock tight to thread as shown in the two diagrams on **Page 3**.
Note: The fuel filler neck must be between the cab and the front cross bar.
- 4 Slacken the hose clamp on the fuel hose only and rotate the filler neck about 45° anti clockwise, re-tighten the hose clamp.

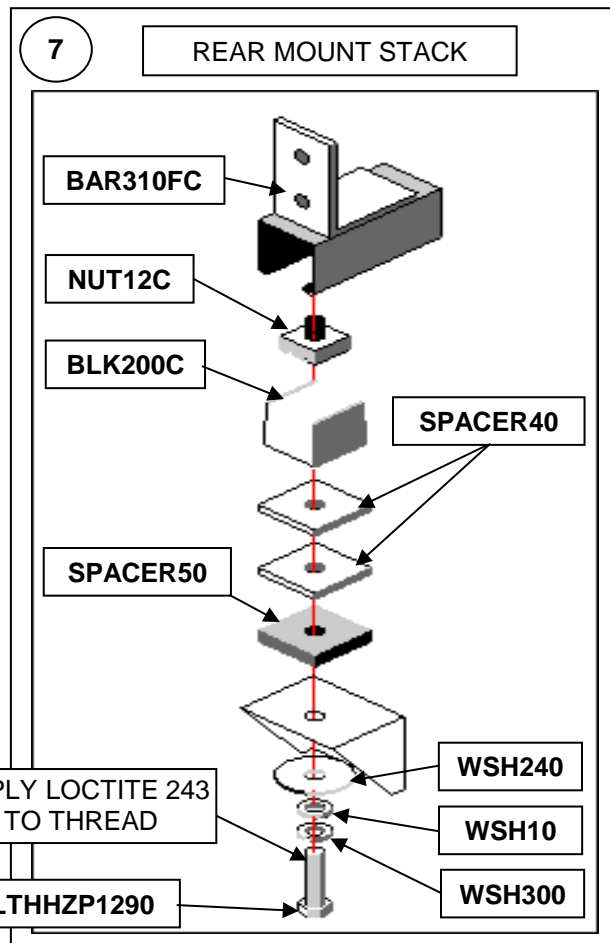
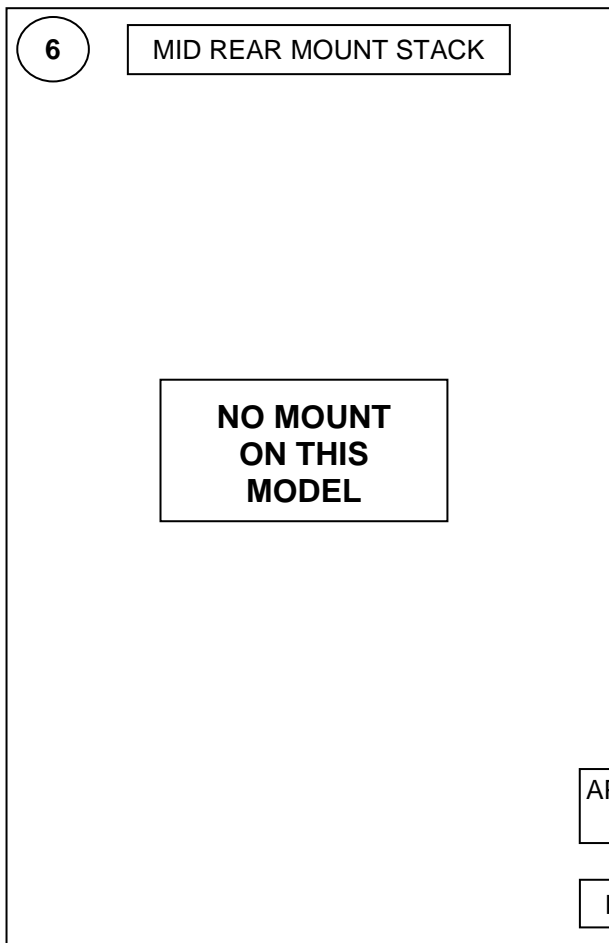
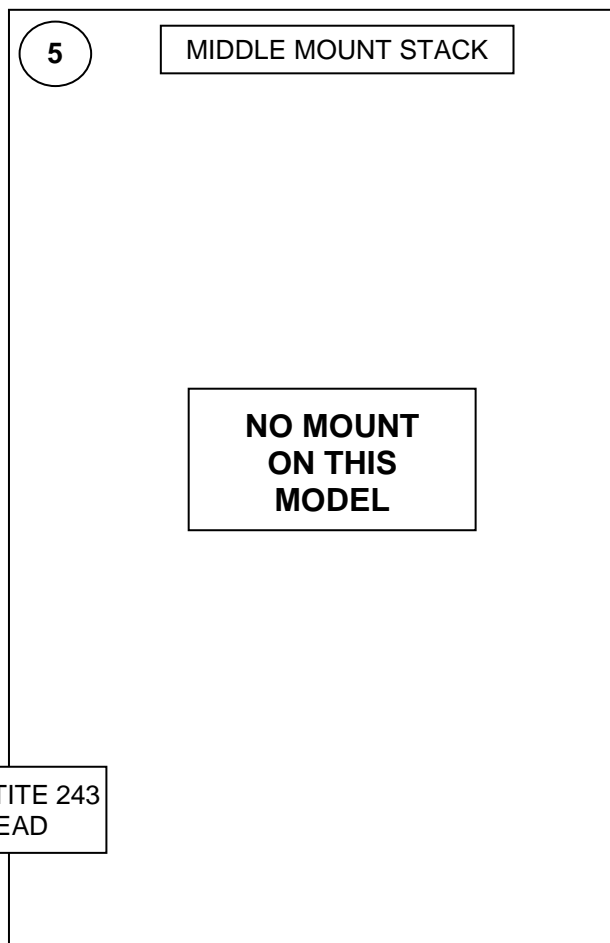
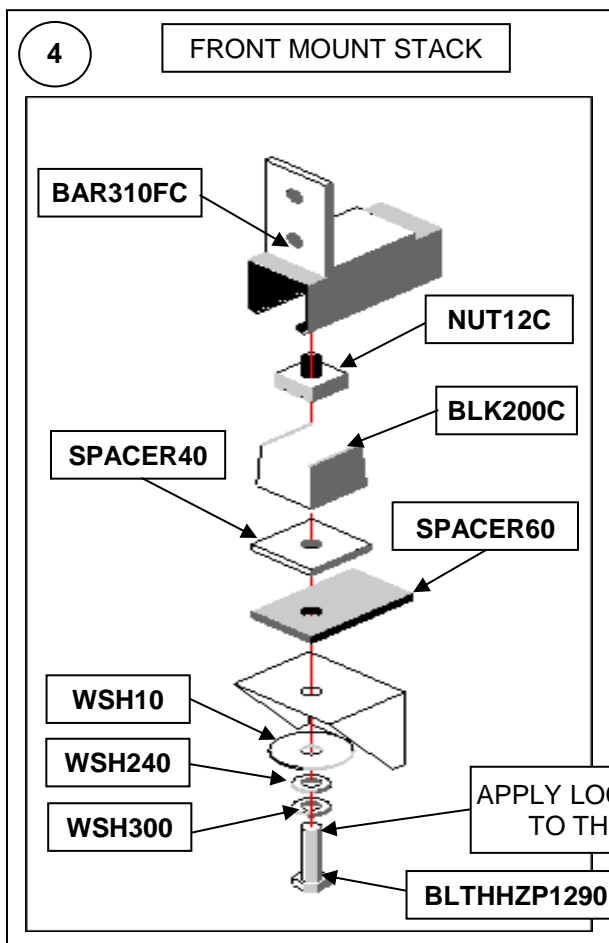


- 5 With all parts in place and the bolts still loose check the front and rear mounts are central over the chassis by measuring from the inside of one mount cleat to the inside of the opposite chassis rail. Repeat this for the other mount cleat and rail sliding the mounting cross bar "to and fro" until the measurements are equal. See **ILL 2**.
- 6 Tighten the four bolts securing the mount bars to the chassis mounts front and rear.
- 7 At the front of the tray, remove the four 6mm screws and nuts that secure the bottom end of the vertical braces to the front end of the main bearers.
- 8 Place the Flexiglass Tray in place on the mounts.

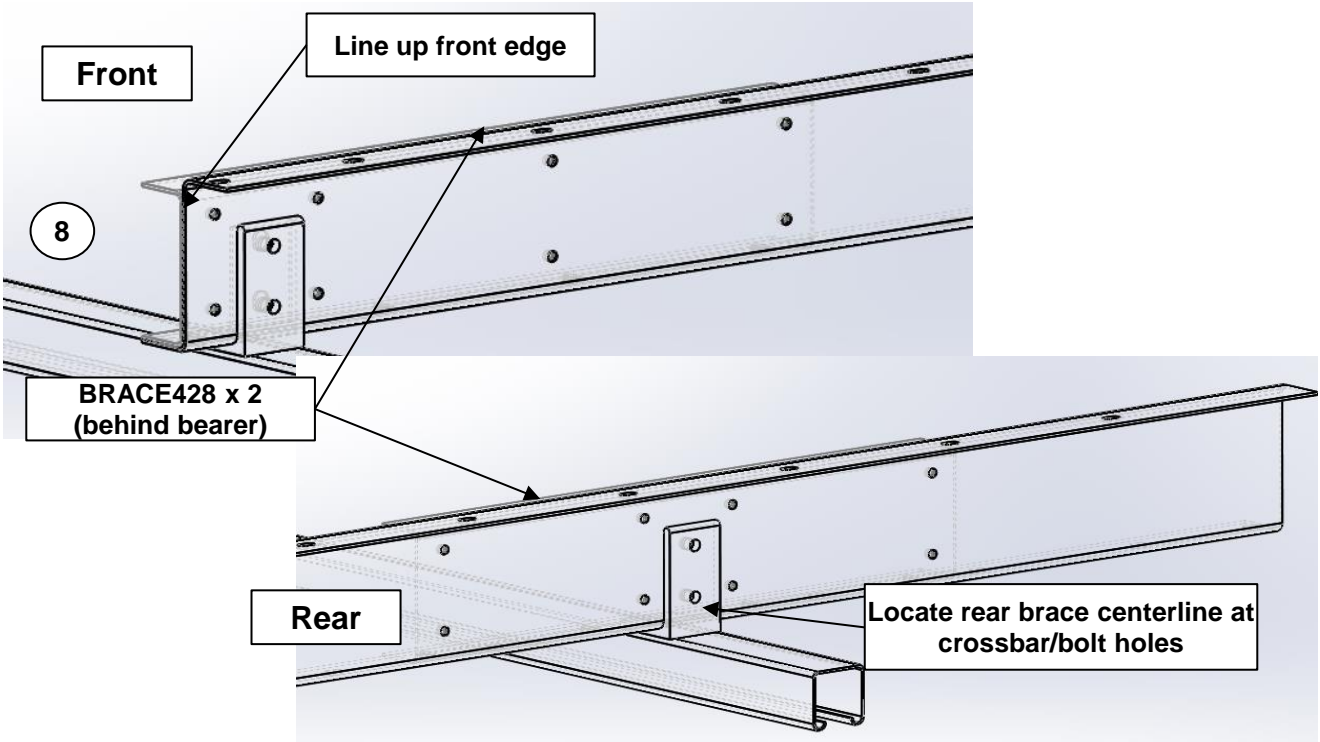
Note: There must not be more than 700mm overhang of the tray bearers from the rear mounting position.



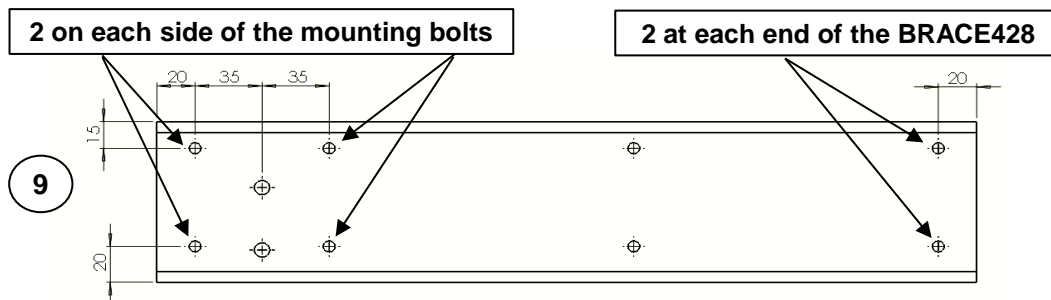
- 9 Slide the tray into position with the front end of the main bearers flush with the angle cleat of the cross bar.



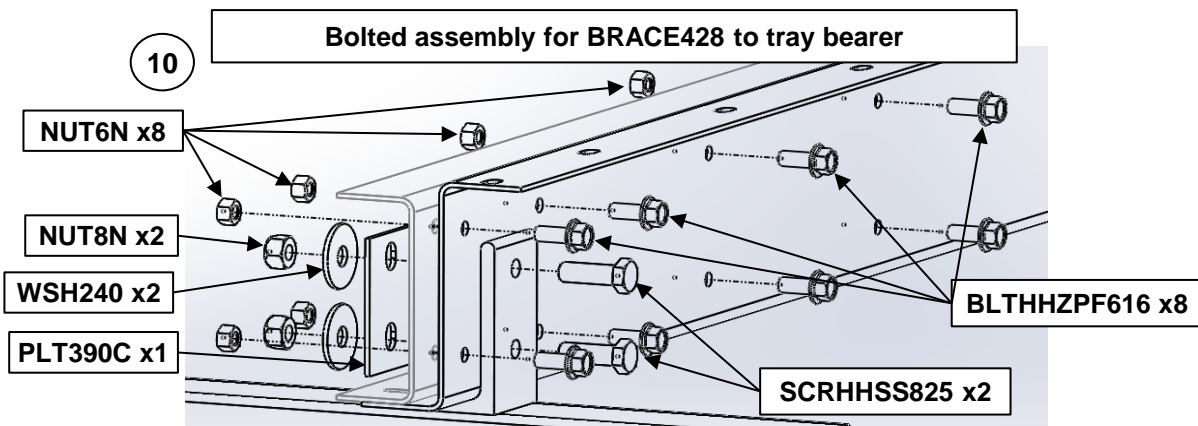
- 10 Secure tray to the bearers as shown in the diagrams above, on the front crossbar the 8mm screws will take the place of the 6mm screws removed earlier.
- 11 Once tray is sitting correctly on the crossbars, locate two BRACE428 on the inside of each bearer as shown below (ILL 8) and clamp securely.
- 12 Drill 21/64" holes through the bearer and brace using the mounting cross bar holes as a guide. Bolt tray assembly together with PLT390C and M8 mounting bolts SCRHHSS825



- 13 Drill 7mm holes through the bearer and brace at the approximate locations per ILL 9 below. Note: At least 8 Bolts per brace should be used in each reinforcement



- 14 Bolt reinforcements tightly to bearer with 8x BLTHHZPF616 and NUT6N per ILL 10 below



15 Take the bent bar with three holes from the **FUELSTAY10** kit and flatten out the bend on the jaws of a vice, or other solid flat surface.

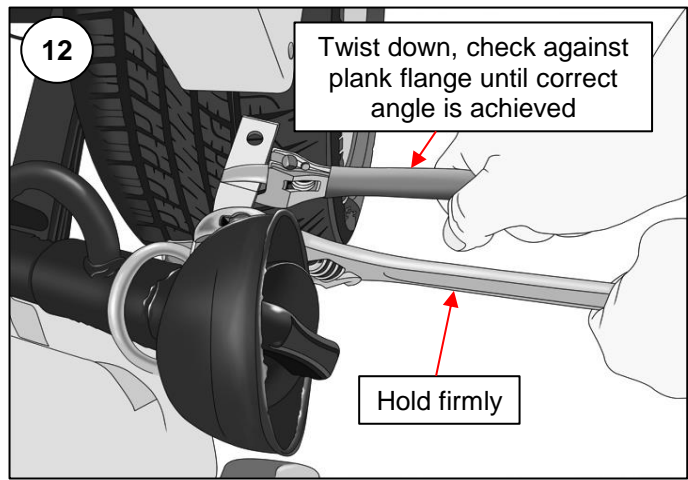
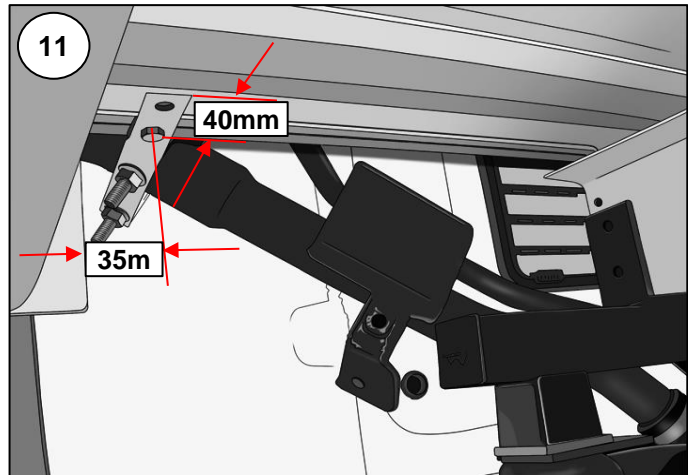
16 From the same end of the bar measure 40mm, mark a hole position on the centre line and drill a 1/4" hole. See **ILL 11**.

17 On the underside of the tray front plank flange, measure from the edge of the headboard upright 35mm towards the centre of the tray.

18 Drill a 1/4" hole at that point, on the "V" groove of the flange.

19 Assemble the "U" bolt, clamp and bar from **FUELSTAY10**. See in **ILL 12**.

20 Use two adjustable wrenches as shown to twist the bar until the drilled end sits flat on the underside of the front plank flange.



Note: Twisting wrench should be over the 1/4" hole with about 25mm between it and the holding wrench.

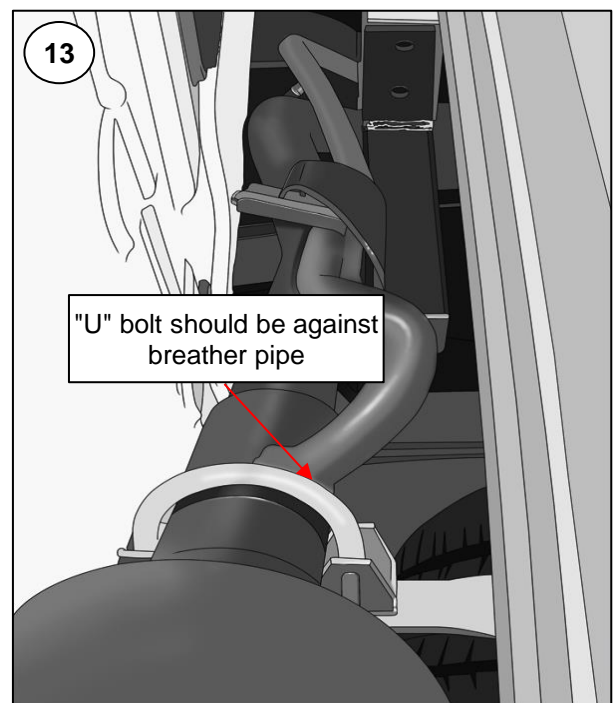
21 Attach the bar to the flange with a **SCRHHSS620**, **WSH180** & **NUT6N** and tighten enough to allow adjustment.

22 Pull the filler neck outwards so that the "U" bolt contacts the breather pipe. Twist the neck and adjust the bar position as necessary to obtain clearance every where, then tighten all bolts and nuts fully.

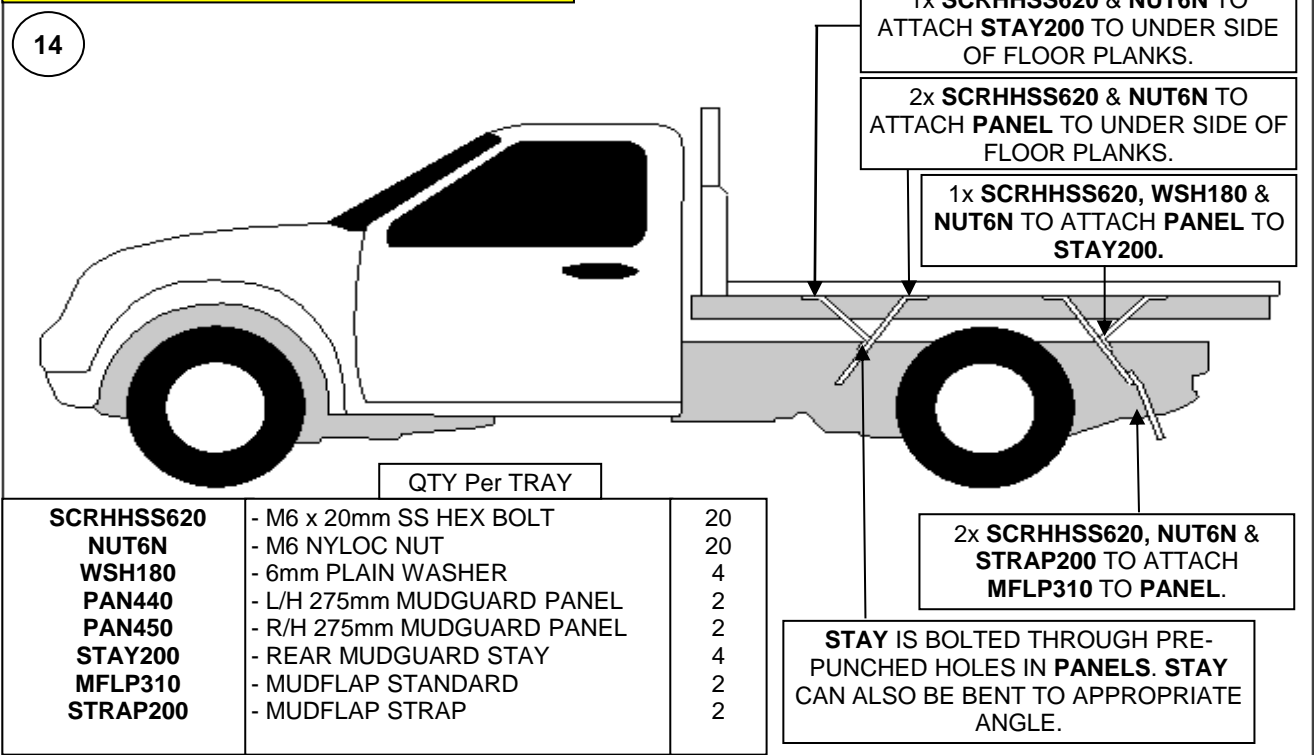
23 The stays are mounted to the mudguards in pre-drilled holes using 1 of **SCRHHSS620**, **WSH180** & **NUT6N**.

24 Mount the mudguards to the underside of the tray deck by lining up the pre-punched holes in the mudguard with one of the ribs running along the underside of the tray. Drill 1/4" holes and attach with 2 of **SCRHHSS620** & **NUT6N**.

Note: Make sure the spacing between the mudguard and wheel is sufficient for both aesthetic and functional purposes. See **ILL 14**.



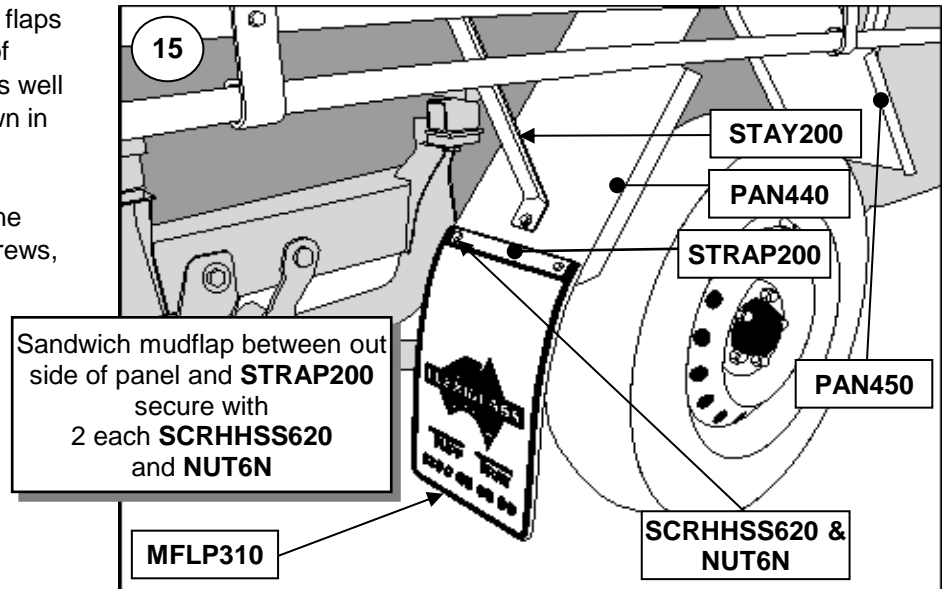
MOUNTING OF TWO PART MUDGUARDS



25 Attach the other end of the stay to the underside of the tray using same method but with only one fixing.

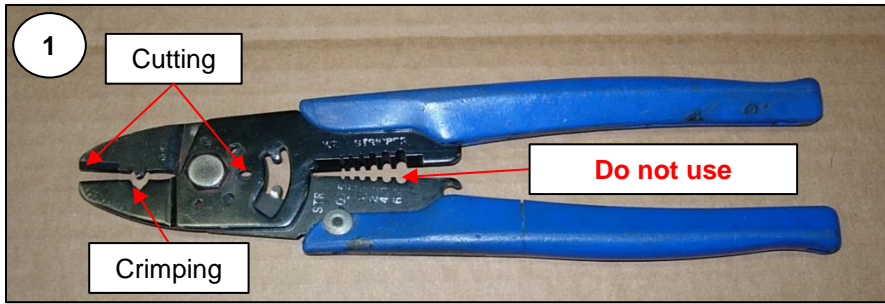
26 Attach both **MFLP310** mud flaps to the mudguards using 4 of **SCRHSS620** & **NUT6N** as well as 2 of **STRAP200** as shown in the diagram right.

Note: ILL 15 only shows one side and requires only 2 screws, washers, nuts and 1 strap.



ELECTRICAL WIRE STRIPPING SAFETY PROCEDURE

It is Flexiglass policy that the use of combination electrical cutting/crimping and stripping pliers be restricted to cutting and crimping use only.



It is a documented fact that the use of these pliers can cause personal injury due to the fact that they are reliant upon holding the cable in one hand while pulling with the pliers with the opposite hand. Any attachments to the gripped end can be pulled into and through the palm of the gripping hand causing injury.

The single hand action strippers are to be used at all times for stripping cable ends ready for joining or connecting.

Two types of cable strippers are recommended, one operates with the pliers at 90° to the cable (2) the other operates in-line with the cable (3).



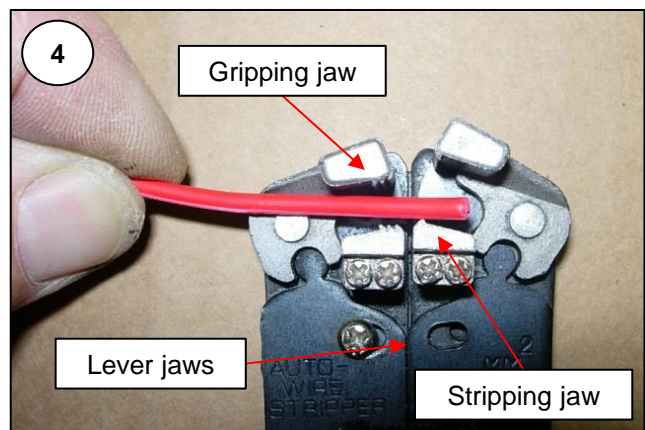
The tool in **ILL 2** is a generally stronger and harder wearing item but the other is very useful for getting to cables in restricted space, it is therefore recommended that both types be available.

OPERATING INSTRUCTIONS

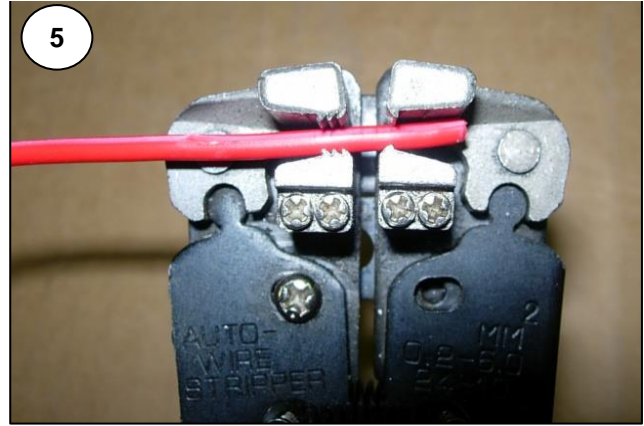
- 1 Squeeze handles sufficiently to bring the lever jaws together. Lay cable between stripping jaws as shown in **ILL 4**.

Note:

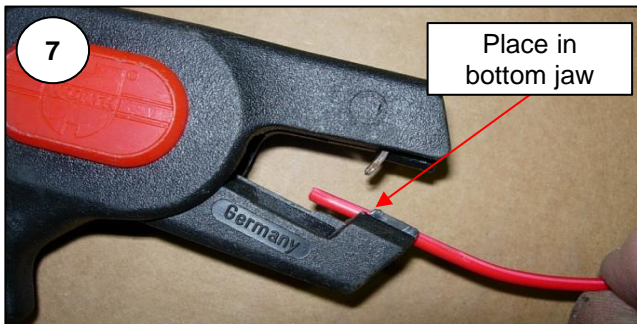
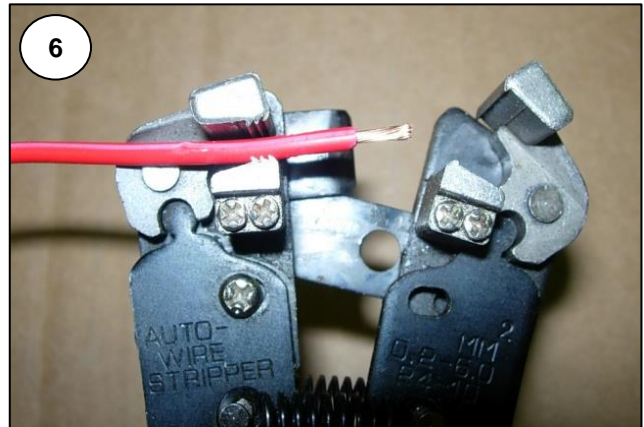
There should be no necessity to strip more than 10mm of sheathing from the cable end for any of the connectors used by Flexiglass. If for any reason a longer stripped end is required, do it in repeated 10mm bites, the pieces can then be slid off the end using the fingers.



2 Continue squeezing the handles together to engage the gripping and stripping jaws.



3 Increase the pressure slightly as you continue to squeeze. The stripping jaws will then move independently of the pliers cutting and stripping the end of the wire until with a sharp click both sets of jaws will automatically disengage.

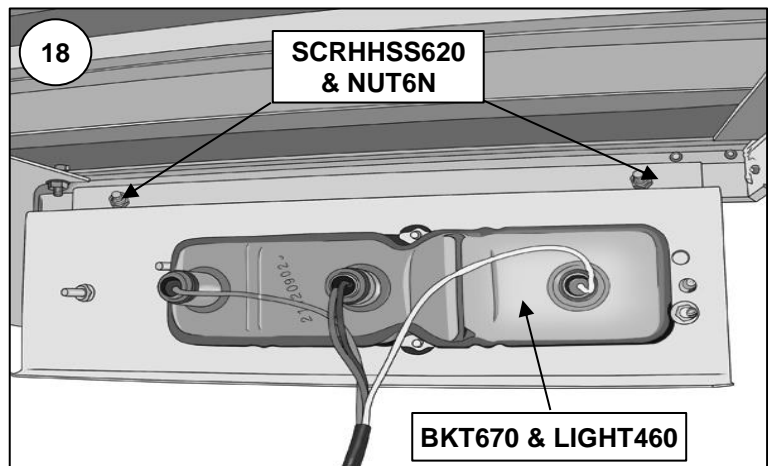
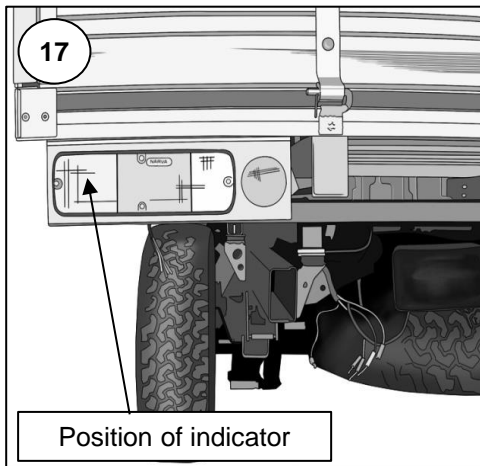
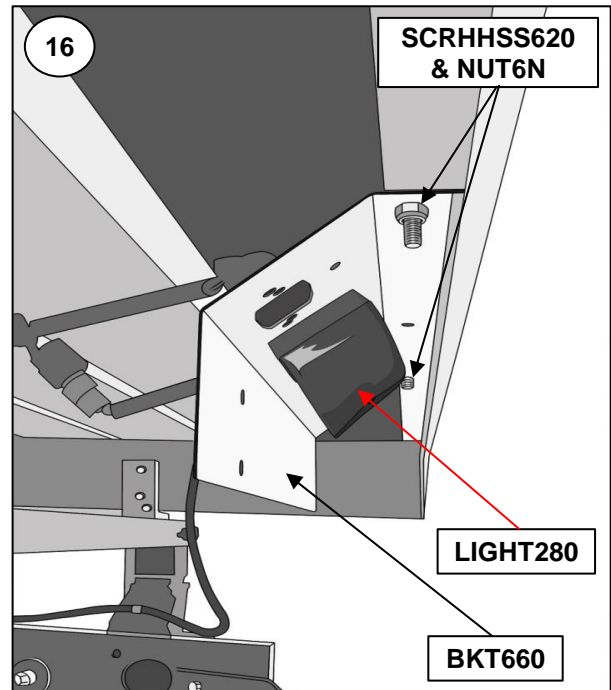


4 The Wurth pliers are simpler in operation. After placing the cable in the "V" of the bottom jaw, **ILL 7**, squeeze the handles together. The squeezing action brings the jaws together and forces the bottom jaw forward both cutting and pulling the sheath from the cable. See **ILL 8 & 9**.



FIT INSTRUCTIONS (cont...)

- 27 Refer to instruction **3-1B Licence plate fit**. To fit the **LIGHT280 & GLOBE281** to **BKT660**.
- 28 Attach **BKT660** Number plate bracket in the centre at the rear end of the tray as shown in the image to the right. Use 2 of M6x20 SS screws and M6 Nylock nuts to fit to the underside of tray. See **ILL 16**.
- 29 Fit a **LIGHT460 & REFL10** to each of the **BKT670 R&L**. Ensure that the indicator light goes to the opposite end of the bracket to the reflector.
- 30 Use the bracket as a template over the **outside** of the rear plank, locating the drill point in the groove on the centre line of the bottom channel and drilling two 1/4" holes for each tail light unit.
- 31 Attach the tail lamp clusters to the tray rear as shown below using screws and nuts supplied.



- 32 Connect the replacement rear lights to the wiring on the vehicle multi-connectors cut off when removing the well body, using the **CON110** supplied.
- 33 Pass wiring harness over the top of crossbars etc and re-connect using the original multi-connectors, check for correct operation then attach to the tray underside with **TIE100** provided to prevent movement.
- 34 If alterations to the wiring need to be made it is recommended that you consult an auto electrician first.
- 35 Detail and clean the tray for delivery to the client.