

# ARB WINCH/NONWINCH BULLBAR

# **TO SUIT HJ100 IFS**

## (To suit October 2002 on)

### PRODUCT No. 32/3413190 FITTING KITS 6172338, 6172342

## WARNING

#### FOR VEHICLES EQUIPPED WITH SRS AIRBAG

WHEN INSTALLED IN ACCORDANCE WITH THESE INSTRUCTIONS, THE FRONT PROTECTION BAR DOES NOT AFFECT OPERATION OF THE SRS AIRBAG.

#### TAKE NOTE OF THE FOLLOWING:

- THIS PRODUCT MUST BE INSTALLED EXACTLY AS PER THESE INSTRUCTIONS USING ONLY THE HARDWARE SUPPLIED.
- IN THE EVENT OF DAMAGE TO ANY BULL BAR COMPONENT, CONTACT YOUR NEAREST AUTHORISED ARB STOCKIST. REPAIRS OR MODIFICATIONS TO THE IMPACT ABSORPTION SYSTEM MUST NOT BE ATTEMPED.
- DO NOT USE THIS PRODUCT FOR ANY VEHICLE MAKE OR MODEL, OTHER THAN THOSE SPECIFIED BY ARB.
- DO NOT REMOVE LABELS FROM THIS BULL BAR.
- THIS PRODUCT OR ITS FIXING MUST NOT BE MODIFIED IN ANY WAY.

OPTIONAL LIGHT SETS TO SUIT THIS PRODUCT: -ARB 6821201 Fog Light Kit Suit 3163015 -Up to IPF 900 SERIES FOG OR DRIVING LIGHT SETS

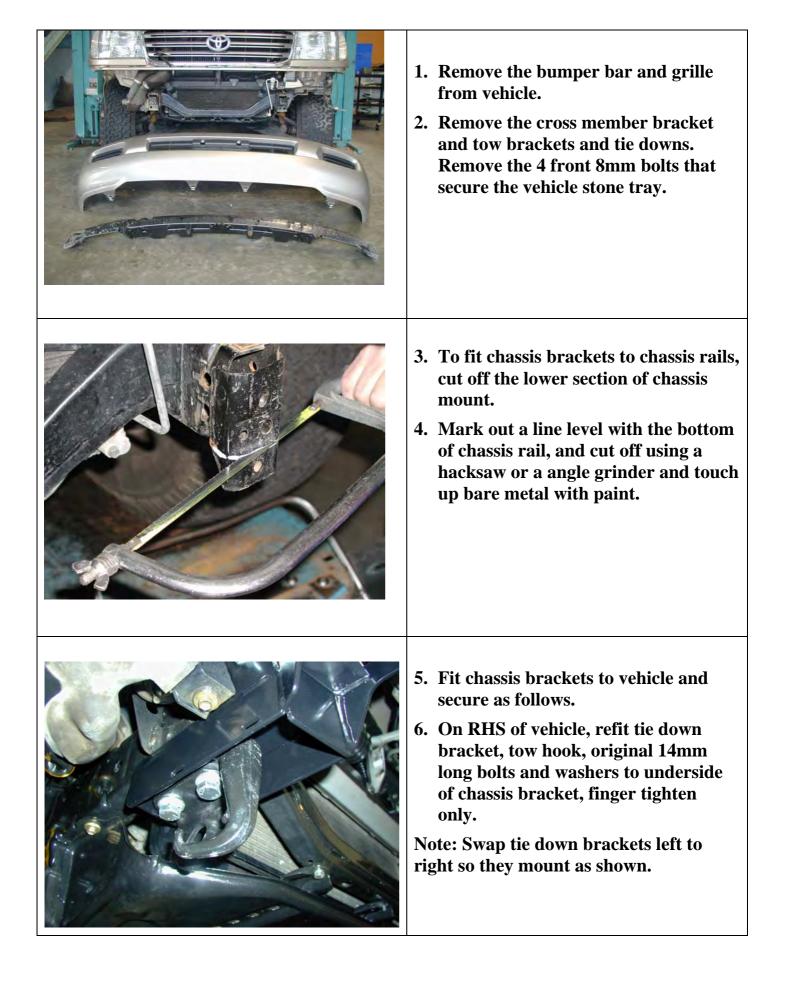
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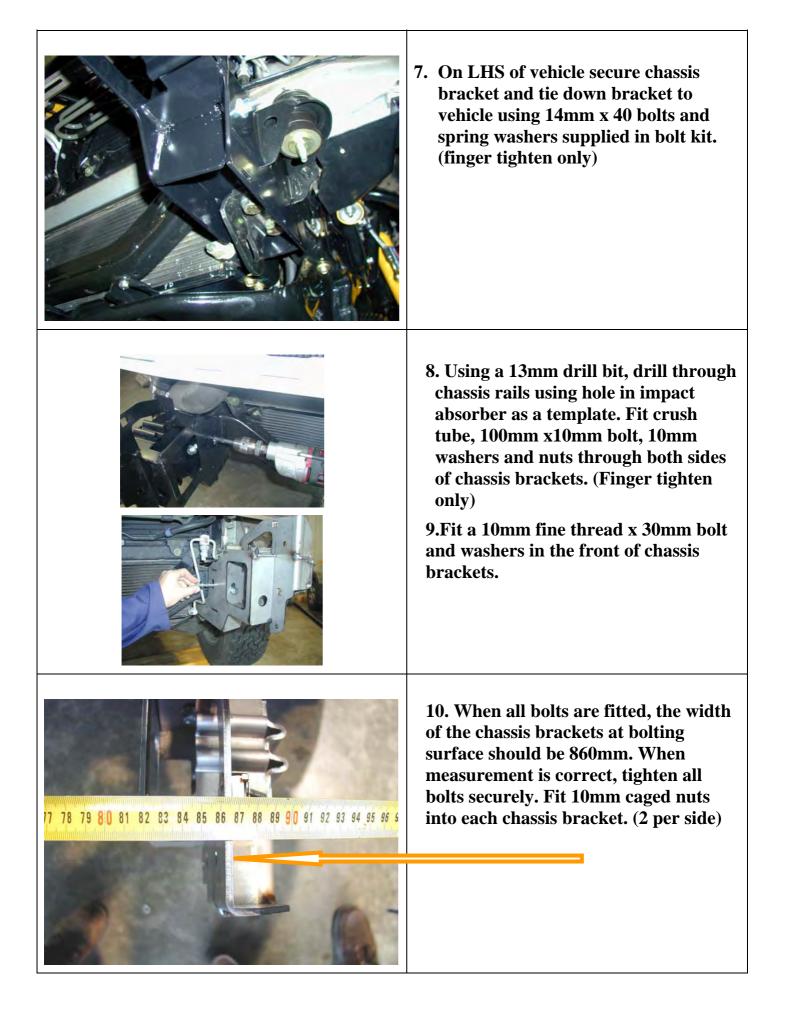
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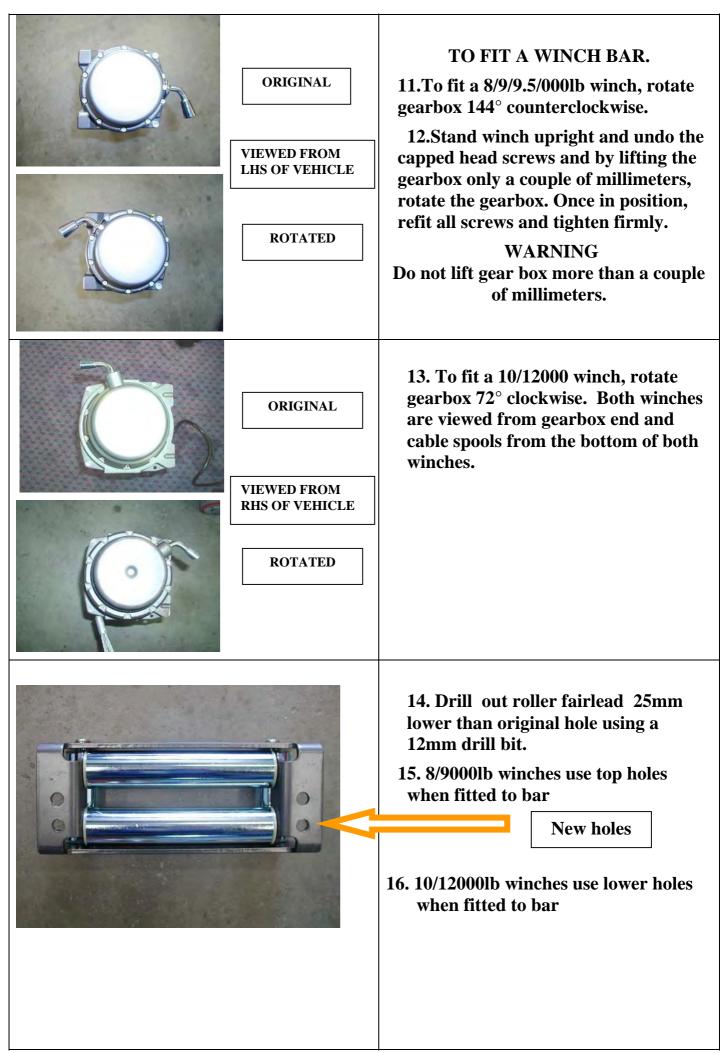
| USE                    | PART No  | QTY | DESCRIPTION                    |
|------------------------|----------|-----|--------------------------------|
| MOUNT BRACKETS TO      | 6151099  | 2   | BOLT M14 X 40mm                |
| VEHICLE                | 4581052  | 2   | WASHER SPRING M14              |
| _                      | 6151299  | 2   | BOLT M10 X 1.5 X 100mm         |
|                        | 6151040  | 2   | BOLT M10 X 1.25 X 30           |
|                        | 4581048  | 4   | WASHER SPRING M10              |
|                        | 4581040  | 6   | WASHER FLAT M10                |
|                        | 6151026  | 2   | NUT 10 X 1.5                   |
|                        | 3756493L | 1   | BRACKET IMPACT ABSORBER LHS    |
|                        | 3756493R | 1   | BRACKET IMPACT ABSORBER RHS    |
|                        | 4721520  | 2   | TUBE CRUSH                     |
| BULLBAR TO MOUNT ASSY  | 6151232  | 8   | BOLT M10 X 30X 1.5             |
|                        | 4581288  | 4   | WASHER FLAT M10 LARGE          |
|                        | 4581040  | 4   | WASHER M10 FLAT                |
|                        | 4581048  | 8   | WASHER M10 SPRING              |
|                        | 6151026  | 4   | NUT M10                        |
|                        | 6151304  | 4   | NUT M10 CAGED                  |
| WINCH 8/9000/10,000 LB | 4581040  | 4   | WASHER FLAT 3/8"               |
|                        | 6151074  | 2   | BOLT 3/8" X 1 ¾"               |
|                        | 4581041  | 2   | WASHER FLAT 7/16"              |
| NUMBER PLATE           | 3751451  | 1   | NUMBER PLATE BRACKET           |
|                        | 6151180  | 4   | BOLT M6 X 16                   |
|                        | 6151046  | 4   | WASHER FLAT M6                 |
|                        | 6151128  | 4   | NUT FLANGE M6                  |
| CONTROL BOX            | 3751564  | 1   | CONTROL BOX BRACKET            |
|                        | 6151021  | 2   | BOLT M8 X 20MM                 |
|                        | 6151132  | 2   | NUT FLANGE M8                  |
|                        | 4581044  | 2   | WASHER M8                      |
| BUFFERS TO BAR         | 6151128  | 12  | NUT FLANGE M6                  |
|                        | 6162470R | 1   | BUFFER UPRIGHT RH              |
|                        | 6162470L | 1   | BUFFER UPRIGHT LH              |
| WINCH CABLES           | BLB560   | 2   | BLACK CABLE                    |
|                        | BLR 560  | 1   | RED CABLE                      |
| CABLE TIES             | 180302   | 8   | CABLE TIES                     |
| AIR DEFLECTOR          | 3314477  | 1   | AIR DEFLECTOR                  |
|                        | 6151300  | 4   | NUT M6 CAGED                   |
|                        | 6151180  | 4   | BOLT M6 X 20                   |
|                        | 6151046  | 4   | WASHER FLAT                    |
|                        | 4581036  | 4   | WASHER SPRING                  |
| INDICATORS TO BAR      | 3163015  | 1   | COMBINATION LIGHT SURROUND KIT |
|                        | 180701   | 6   | SCOTCH LOCK                    |
|                        | 6821151L | 1   | TURN SIGNAL / CLEARANCE LIGHT  |
|                        | 6821151R | 1   | TURN SIGNAL / CLEARANCE LIGHT  |
|                        | 6821152  | 2   | WIRING LOOM                    |
|                        | 3314478  | 1   | PAN COVER INTERCOOLER          |
| TURBO DIESEL MODEL     | 6151128  | 5   | NUT FLANGE M6                  |
| FIT KIT 6171775        | 6151180  | 5   | BOLT M6 X 20                   |
|                        | 6151046  | 5   | WASHER FLAT M6                 |

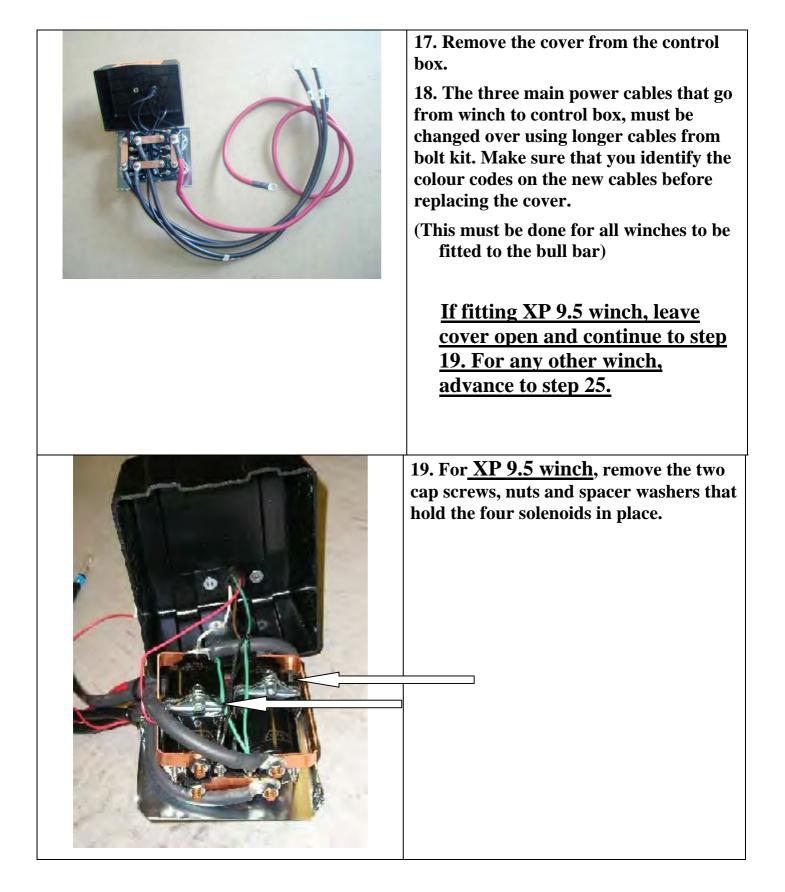
### **Tools Required**

10mm, 14mm, 13mm 18mm, 19mm, 22mm Spanners and Sockets. Phillips head screwdriver, drill & 10mm drill bit, hacksaw or angle grinder and 50mm, 100m socket extension.



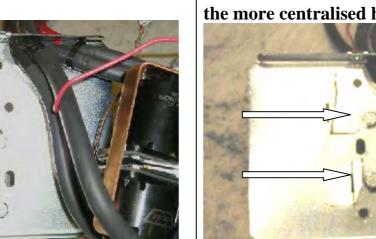




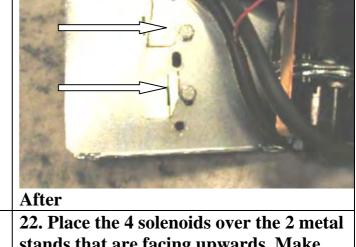


20. Remove the four solenoids from the base of the control box using the copper bus bar as an aid and hold to one side.





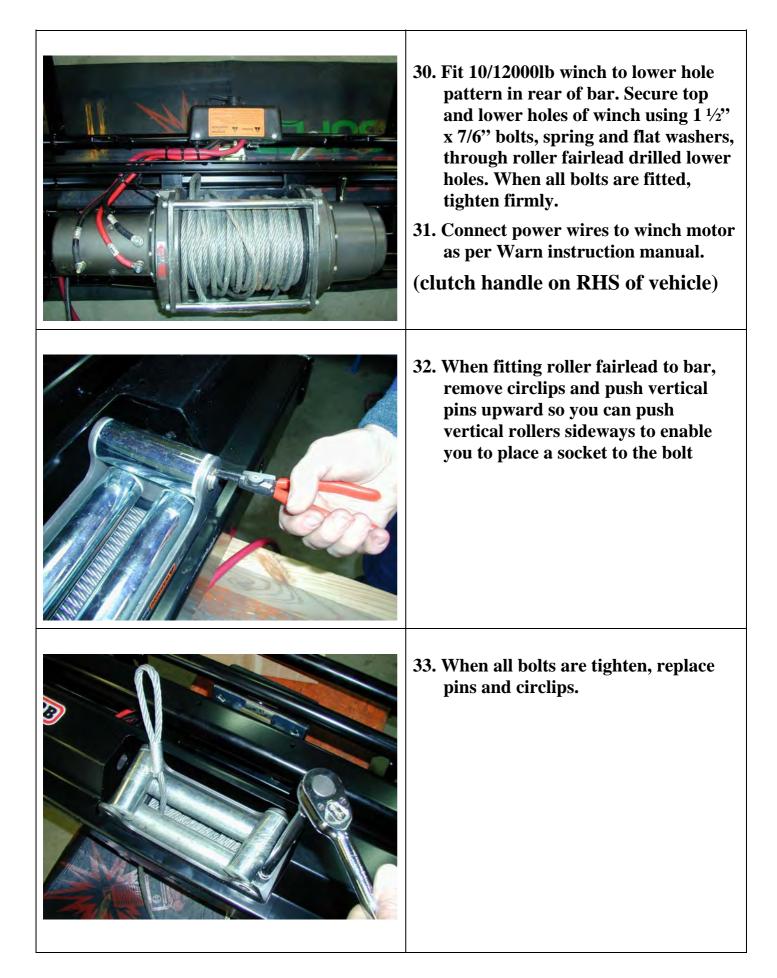
21. Remove the two bolts in the base of the control box and reposition them into the more centralised holes





22. Place the 4 solenoids over the 2 metal stands that are facing upwards. Make sure they line up with the holes in the base.

| <ul> <li>23. Replace the 2 cap screws, washers<br/>and nuts removed in step 19 above into<br/>original holes.</li> <li>24. Replace the black cover and refit the<br/>three cover screws (DO NOT OVER<br/>TIGHTEN)</li> </ul>                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 25. Fit control box bracket to bar using 8mm hardware.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 26. Fit buffers to bull bar using 6mm<br>hardware.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <ul> <li>27. Fit control box to control box bracket and pull wires through top cutouts.</li> <li>28. Fit 8/9000lb winch to top hole pattern in rear of bar. Secure top holes of winch using 1 <sup>1</sup>/<sub>2</sub>" x 3/8" bolts, spring and flat washers, and lower holes with 1 <sup>3</sup>/<sub>4</sub>" x 3/8' bolts through roller fairlead original top holes. When all bolts are fitted, tighten firmly.</li> <li>29. Connect power wires to winch motor as per Warn instruction manual (Clutch handle on LHS of vehicle)</li> </ul> |

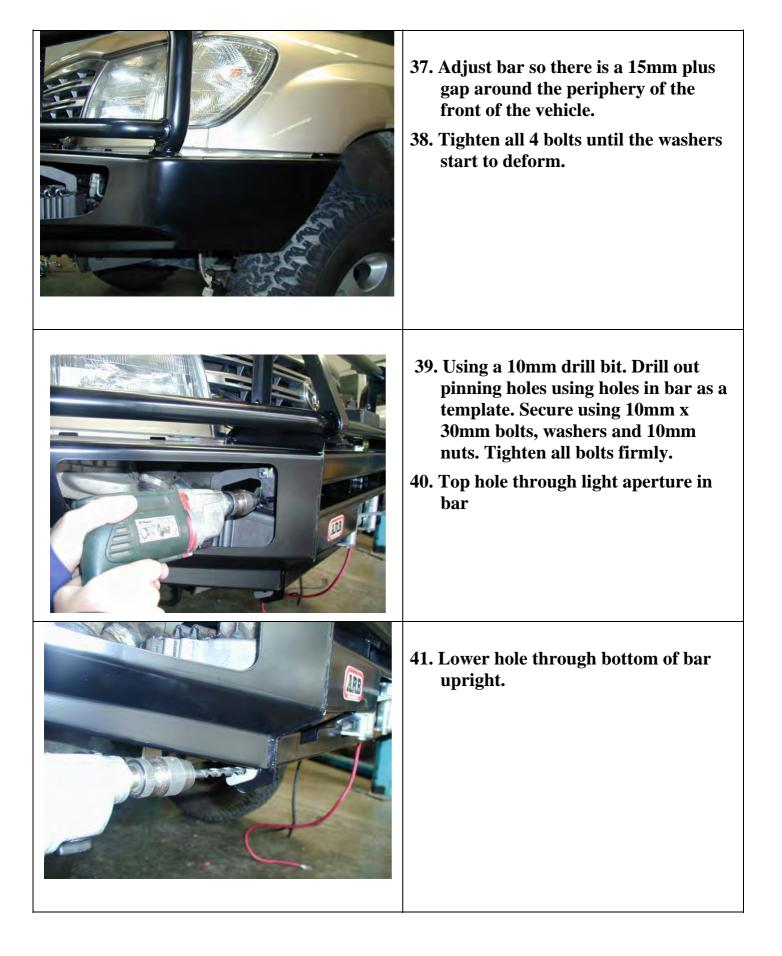


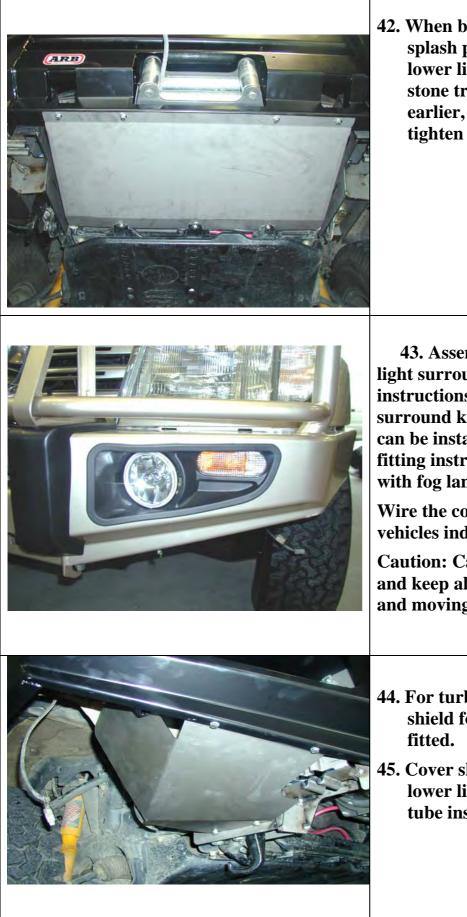
34. Before fitting bar to chassis brackets on vehicle, cable tie all winch power cables well clear of all moving parts. When bar is fitted to vehicle, fit leads to battery and cable tie clear of all moving parts.

- **35. Fit 6mm caged nuts into square holes** in lower section of bar.



36. With the help of a friend, lift bar in between the chassis brackets and secure to caged nuts using 10mm x 30mm bolts, large HD washers and spring washers.





42. When bar is secured to vehicle, fit splash pan using 6mm caged nuts on lower lip of bar, and to where the stone tray 8mm bolts were removed earlier, when all bolts are in place tighten securely.

43. Assemble and install combination light surrounds (p/n 3163015) as per instructions no. 3786421 supplied with surround kit. Note: Optional fog lamps can be installed at this point as per fitting instruction no. 3783315 supplied with fog lamp kit no. 6821201.

Wire the combination lamp to the vehicles indicator and clearance lamps.

**Caution: Cable tie all cables together** and keep all cables clear of sharp edges and moving parts.

- 44. For turbo diesel models, a cover shield for intercooler pipes must be
- 45. Cover shield fits to chassis bracket, lower lip of bar and to the tag on the tube inside the bar.



46. Fit number plate to bar.

#### Winch Bar

If you have a slimline number plate attach it directly to the top pan with the fasteners provided.

If you have a standard number plate, fasten it to the top pan using the bracket and fasteners provided.

#### Non Winch Bar

Fasten the number plate to the lower pan using the fasteners provided.

