



FITTING INSTRUCTIONS

ARB WINCH/NONWINCH SAHARA BAR TO SUIT TOYOTA HJ100 6 CYL.

PRODUCT No. **3913150**
 5100050 Top Tube Kit
 5100173 Buffer Kit – With hole (required when fitting Top Tube)
 5100174 Buffer Kit – With no hole

FITTING KIT No: **6172352**

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.**
- **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**

Tools Required

10mm, 18mm, 19mm, 21mm Spanners and Sockets. Phillips head screwdriver, Cordless Drill with phillips head tip (Optional).

USE	PART No	QTY	DESCRIPTION
TOP & INSIDE OF MOUNT ASSEMBLY TO CHASSIS	3751824	1	MOUNT ASSEMBLY
	6151094	4	M12 X 30mm BOLT
	4581049	4	M12 FLAT WASHER
	4581050	4	M12 SPRING WASHER
UNDERSIDE OF MOUNT ASSEMBLY TO CHASSIS	5846222	2	PACKER
	6151097	4	M12 X 50mm BOLT
	4581049	4	M12 FLAT WASHER
	4581050	4	M12 SPRING WASHER
OUTSIDE OF MOUNT ASSEMBLY TO CHASSIS	6151087	4	M10 X 25mm BOLT
	4581048	4	M10 SPRING WASHER
	4581041	4	M10 FLAT WASHER
RUBBER EXTRUSION FITTMENT	6821116	14	SQUARE PLASTIC PLUG
	6151176	14	SCREW SELF TAPPING 12mm 8G
	6191002	2	EXTRUSION
	3193616	2	MOUNT STRIPS
WINCH BUMPER TO MOUNT ASS	6151255	6	BOLT M12 X 40mm
	4581050	6	WASHER SPRING M12
	4581007	6	WASHER FLAT M12 LARGE
WINCH	4581041	4	M10 FLAT WASHER
BUFFER FITTMENT	6151128	12	NUT FLANGE M6
(5100173 Required if fitting Top Tube)	3162153	1	BUFFER LHS
	3162154	1	BUFFER RHS
BUFFER FITTMENT	6151128	12	NUT FLANGE M6
(5100174 Required if not fitting Top Tube)	3162171L	1	BUFFER LHS
	3162171R	1	BUFFER RHS
BUFFER LOWER FITTMENT	6151128	5	NUT FLANGE M6
	3162155	1	BUFFER LOWER
TOP TUBE FITTMENT	6151255	2	BOLT M12 X 40mm
(5100050)	4581049	2	WASHER FLAT M12
	4581050	2	WASHER SPRING M12
	6131150	1	TOP TUBE

CONTROL BOX FITTMENT	3751809	1	CONTROL BOX BRACKET
	6151017	2	BOLT M6 X 16MM
	6151128	4	NUT FLANGE M6
ROLLER FAIRLEAD FITTMENT	6151255	2	BOLT M12 X 40mm
	4581050	2	WASHER SPRING M12
	4581049	4	WASHER FLAT M12
	6151189	2	NUT M12
WINCH COVER FITTMENT	6151128	2	NUT FLANGE M6
	6151256	2	SCREW M6 S/STEEL BUTTON HEAD
	6191001	1	WINCH COVER EXTRUSION
	6521031	1	WINCH COVER
	6151046	2	WASHER M6
NUMBER PLATE FITTMENT	6151017	2	BOLT M6 X 16mm
	6151128	2	NUT FLANGE M6
	6781408	1	TAPE DOUBLE SIDED
LIGHT HOUSING	3163015	1	KIT SURROUND FOR FOG AND INDICATOR LIGHTS
	6821151L	1	TURN SIGNAL / CLEARANCE LIGHT
	6821151R	1	TURN SIGNAL / CLEARANCE LIGHT
CB & HEADLIGHT WASHER	3162152	2	PLASTIC PLUG DIA 16
	3162159	2	PLASTIC PLUG DIA 22
WIRING	6821152	2	TURN SIGNAL / CLEARANCE LIGHT LOOM
	180701	6	SCOTCH LOCK
	180302	10	CABLE TIE

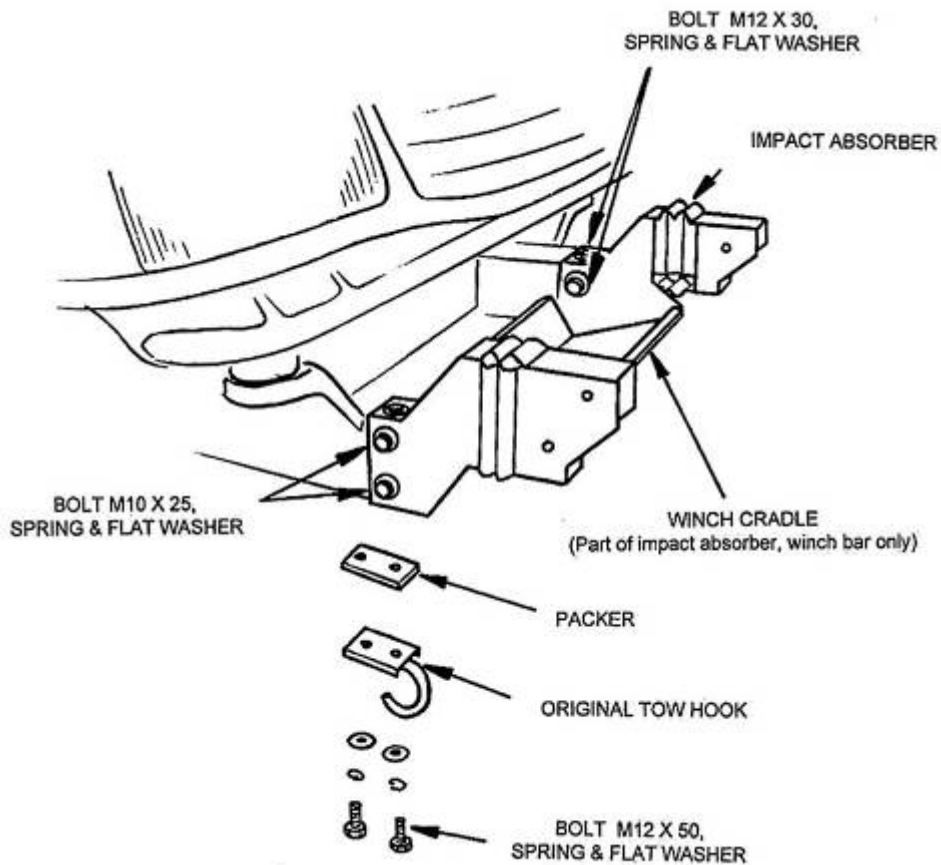
ASSEMBLY SEQUENCE FOR WINCH BAR.

1.



1. Disassemble the mount assy. from the winch bumper by removing the transit bolts.
2. Remove the bumper bar and grill.

2.



1. Slide the mount assy. over the chassis rails.
2. Push the entire mount as far back as possible.
3. Secure the mount assy with the hardware shown

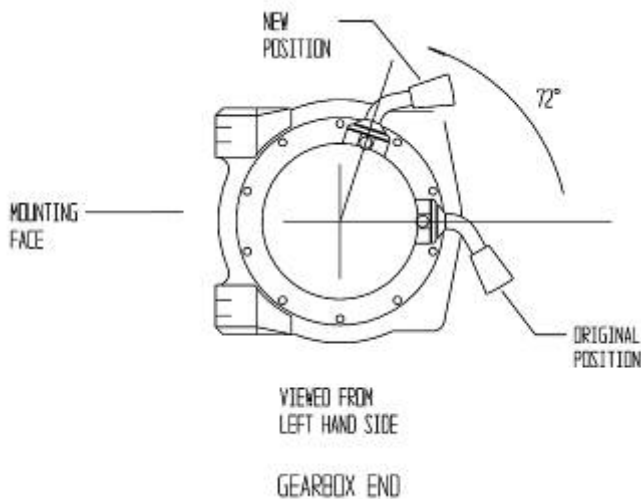
ASSEMBLY SEQUENCE FOR WINCH BAR.

3.



1. Using vice grips, multi grips or pliers bend back the bumper mounting arm approximately 30 – 40 degree's To clear winch bumper when assembled.

4.



(If fitting with winch)

To place the clutch handle in a convenient location the winch gearbox must be rotated two hole spacings.

1. Place the winch on its end and remove all gearbox bolts.
2. Gently raise the motor just enough to rotate it.
3. Do not completely remove the motor and avoid damaging the gasket.
4. Refit and tighten all bolts.

Note: Take care not to lift the assembly more than a couple of millimeters while rotating to the desired position to avoid unmeshing the gears.

5.

(If fitting with winch.)

1. Place the winch on the mount assembly. Cable spools from the top.

Bolt from underneath using bolts supplied with winch. Refer to Warn installation instructions for correct procedure.

ASSEMBLY SEQUENCE FOR WINCH BAR.

6.



1. The rubber extrusion contains a support section to assist in the moulding. Remove this section by tearing at one end. Discard this section.
2. Insert the square plastic plugs into the square holes on the top face of the wing.

7.



1. Insert the mount strips inside the channel section of the rubber extrusion. Make sure the flap section is on the outer side. Allow generous even amounts of excess at either end of the strip so that it can be trimmed later.

8.



1. Using a philips head screw driver or cordless drill with a philips head tip fix the extrusions to the top of the wings using the self taper screws.

ASSEMBLY SEQUENCE FOR WINCH BAR.

9.



1. Using a sharp knife cut the excess rubber in line with the inside end of the wing. Only cut the inside excess, the other end will be cut when the winch bumper is fitted.

10.



1. With the aid of another person place the bar on the mount assy.

11.



2. Insert the M12 X 40mm bolts with the large plate washers and spring washers to finger tight.
3. Using another person position the bar to line up the rubber extrusion with the profile of the vehicle. Hold the wing of the bar so an even gap of approximately 15mm is achieved. Tighten bolts.
4. Repeat on other side.

ASSEMBLY SEQUENCE FOR WINCH BAR.

12.



1. Position the lower buffer on the winch bumper and assemble using the M6 flange nuts.

13.



1. Fit the buffers. Buffer studs fit through the slots in the wings and the pan. Fasten using M6 flange nuts.

Note: This applies to both blank buffers and for those with the hole for optional frame.

CAUTION: DO NOT OVER TIGHTEN THE M6 NUTS AS YOU RISK PULLING THE STUDS OUT OF THE BUFFERS.

14.

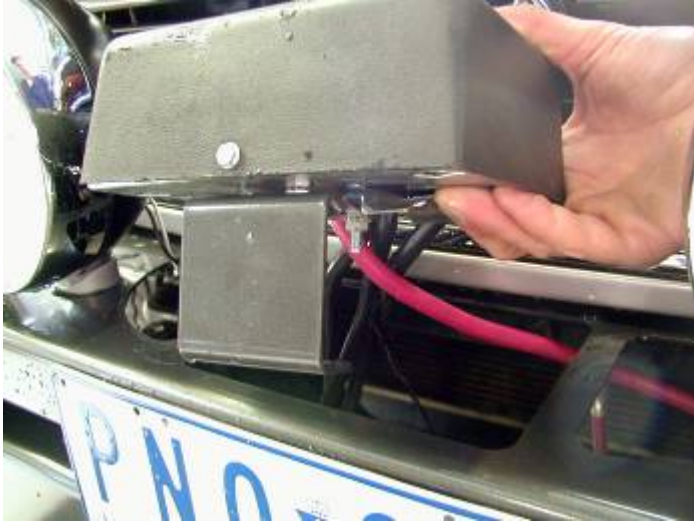


IF FITTING THE TOP TUBE

1. Push the chrome tube through the holes in the top of the buffer and fix using the M12 X 40mm bolts washers and spring washers.

ASSEMBLY SEQUENCE FOR WINCH BAR.

15.



(If fitting with winch)

1. Assemble the control box bracket to the control box using M6 flange nuts.
2. Mount the control box to the bar using M6 X 16 bolts and M6 flange nuts.

16.



(If fitting with winch)

1. Bolt the roller fair lead to the winch bumper using the M12 X 40mm bolts, washers, spring washers and nuts.

17.



(If fitting with winch)

1. Feed the winch cable through the roller fair lead. Mount the hook to the end of the cable.

ASSEMBLY SEQUENCE FOR WINCH BAR.

18.



(If not fitting winch)

1. Wrap rubber extrusion around winch cover.
2. Place washers over the winch cover fixing holes located on the top middle face of the winch bumper.
3. Place the winch cover on top of the winch bumper inline with the mount holes.
4. Bolt together using the M6 button head stainless steel screws and M6 nuts.

19.



Fitting with winch



Fitting without winch

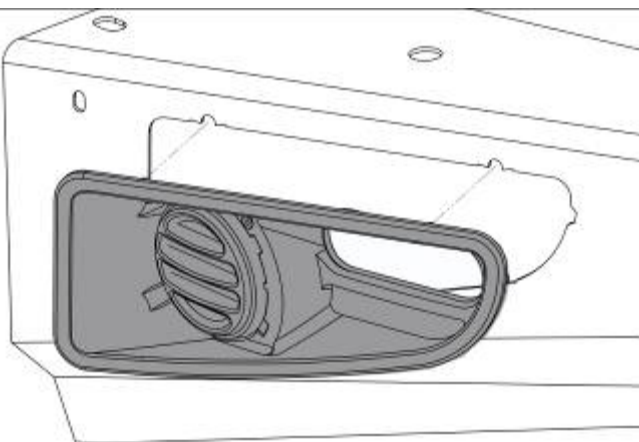
(If fitting with winch.)

1. Peel off one side of the double sided tape and adhere to the top rear side of the number plate. Note: Clean the adhering surfaces before applying tape with an alcohol solvent.
2. Peel off the other side of the tape and bolt to the winch bumper with the M6 X 16mm bolts and M6 flange nuts through the lower holes of the number plate.
3. Press firmly to the top of the number plate so the tape can properly adhere.

(If not fitting with winch.)

1. Bolt the number plate through the top holes using M6 X 16mm bolts and M6 flange nuts.
2. If desired the double sided tape can be used down the sides of the number plate.

20.



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.

ASSEMBLY SEQUENCE FOR WINCH BAR.

21.



1. If fitted, headlight washers can be mounted through the Dia 22 holes on the top face of the wing. Assemble using the existing mount clips. Two plugs are provided to cover the holes if there are no headlight washers on the vehicle.

Place the ARB logo on the front face of the bar in the indentation.

Trim rubber extrusion at end of wing using a sharp knife. Cut on an angle to match the angle of wing and wheel arch.

22.

(If fitting with winch)

Connect the winch control box cables to the winch motor. Refer to the Warn handbook for additional information. Connect the long winch + & - cables to the vehicle after the bar is installed. **Refer to the Warn winch manual for vehicle wiring instructions.**

Note: If fitting 10,000lb winch, cable kit 6171397 is required. Use the longer leads to replace ones on control box.

Ensure that these cables are installed well clear of sharp, hot or moving objects. Secure the winch cables to the vehicle and winch bumper with the supplied cable ties.

23.

Wire the clearance / turn signal lights to the vehicle wiring.

24.

Trim the extrusion between the winch bumper and vehicle using a sharp knife flush with the end of the wing.