



## INSTALLATION INSTRUCTIONS

### Bullbar GT 1528 4X4

- FOUR POST VEHICLE FRONTAL PROTECTION SYSTEM (VPS)
- PLACE THESE INSTRUCTIONS IN VEHICLES GLOVE COMPARTMENT AFTER INSTALLATION IS COMPLETE

**PARTS LIST:** Check contents of kit before commencing and report discrepancies

Item No.	Description	Qty.
1	Bullbar assembly	1
2	Mount assembly	1
3	Pair electrical cable run	1
4	Pair top indicator pods	1
5	Pair lower indicator covers	1

**Installation time:** 180mins

**Required tools:**

- 10 mm socket
- 13 mm socket
- 14 mm socket
- 17 mm socket
- 19 mm socket
- 22 mm socket
- 24 mm socket
- 10 mm spanner
- 17 mm spanner
- 22 mm spanner
- 4 mm allen head wrench
- Flat blade screwdriver
- Side cutters
- Long nose Pliers
- Spirit level

**Pre fitted bolts and parts:**

(to Bullbar)

- (A) Mounting bracket
- (B) 2 x M16 x 2 x 70 bolts
- (C) 4 x M16 x 33 x 3 flat washers
- (D) 2 x M16 x 2 nyloc nuts
- (E) 2 - 3/4 eyebolts
- (F) 2 - M20 x 36 x 2 flat washers
- (G) 2 - M24 nylon washers

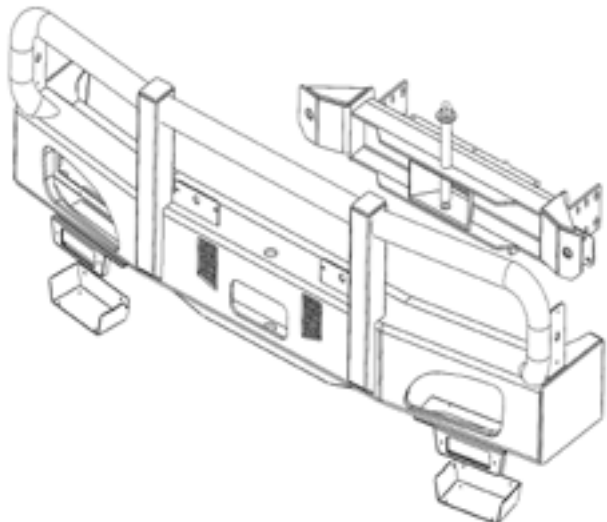
(To indicator pods top section)

- (H) 1 - Pair indicators
- (I) 4 - M6 x 25 Blk 4mm allen head screws
- (J) 4 - M6 flange nuts

**Care instructions:**

Check bolt torque settings at 5000 km and at recommended service intervals when driving on Asphalt roads.

When used in extreme service, look over product on vehicle morning check, check bolt torque settings at 1000 km and every 10,000 km thereafter.





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### Installation kit:

- |                                            |                                            |
|--------------------------------------------|--------------------------------------------|
| (1) 8 x M12 x 1.75 x 50 bolts              | (11) 4 x M6 x 20 bolts                     |
| (2) 8 x M12 x 32 x 2.5 flat washer         | (12) 8 x M6 x 18 flat washers              |
| (3) 8 x M12 x 1.75 nyloc nuts              | (13) 4 x M6 nyloc nuts                     |
| (4) 8 x M10 x 1.5 x 80 set screws          | (14) 4 - M6 flange nuts                    |
| (5) 16 x M10 x 25 x 3 flat washers         | (15) 2 - M6 - 52 x 28mm U-bolts            |
| (6) 8 x M10 x 1.5 nyloc nuts               | (16) 16 x cable ties                       |
| (7) 2 - M8 x 1.25 x 20 bolts               | (17) 2 x tilt cab warning stickers         |
| (8) 2 - M8 spring washers                  | (18) 2 x indicator harness (IC23HNGTIND-W) |
| (9) 2 - M8 x 18 flat washers               | (19) 2 x tilt cab stickers                 |
| (10) 8 x M6 x 25 Blk 4mm allen head screws |                                            |

Diameter	Thread pitch	Recommended assembly setting	
M6	1.0	5 Nm	3.69 ft.lb
M8	1.25	20 Nm	14.8 ft.lb
M10	1.5	50 Nm	36.9 ft.lb
M12	1.75	80 Nm	59.0 ft.lb
M16	2	170 Nm	125.4 ft.lb
M12 original equipment cabin bolt	1.25	75 Nm	55.3 ft.lb

**CAUTION:** Ensure cabin hinge bolts are tightened to correct torque setting.



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Figure 1

Park the vehicle on level ground and apply the park brake.

Check installation hardware and read fitting instructions before commencing.

Remove the steel mounting bracket from the rear of the protection bar.



Figure 2

From the front of the bumper, remove one plastic clip (per side) on plastic bumper infill.

Slide plastic bumper infill to the inside to remove.



Figure 3

In the opening of the bumper on each side of the bumper, remove three (3) 14 mm head bolts.

Remove bumper



Figure 4

Unclip headlight wiring harness from the rear of the cross angle.

Allow to hang.

Disconnect from main harness.



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Figure 5



Remove cross angle, four (4) 10mm head bolts.



Figure 6



One headlight at a time, remove two (2) 14mm head bolts and one (1) 14mm nut from the headlight mount.

Place headlight on floor in front of vehicle whilst removing opposite light.

Caution: Headlights and frames are easily damaged. Ensure to place on a soft surface which incorporates the whole lamp assembly.



Figure 7

Remove four (4) 17mm head bolts (per side) from the headlight mounts.  
Remove mounts



Figure 8

From cabin lower mount, remove two (2) 22mm head bolts.



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Figure 9

Install steel mount to the inside of the chassis rail using four (4) M12 x 50mm bolts, flat washers and nyloc nuts through front holes (per side).  
(torque - 80 Nm - 59 ft.lb)

For rear holes, fit two (2) M16 x 70 bolts, flat washers and nyloc nuts through the rear holes and cabin mounts.  
(torque - 170 Nm - 125.4 ft.lb)

Ensure front of mount is vertical. Tighten all bolts to required torque setting.



Figure 10

Install lights to front of mounting area on steel mount using M10 x 80 bolts, flat washers and nyloc nuts.

Nip tighten only.

Clip headlight wiring to rear of steel mount.



Figure 11

Working one side at a time, remove one (1) 10mm bolts from inside of indicator, gently pull indicator out toward side of vehicle to unclip from rear plastic clips.

Install wiring harness to indicator side of light by unclipping the connector from the light and installing the protection bar harness. Remove light fitting and remove bulb. Refit light fitting  
Install blanking plug to bottom of light fitting.

Feed the harness between the body panels with the original wiring and refit the light, the opposite of removal.  
(torque - 5 Nm - 3.69 ft.lb)



Figure 12

Install top section of accessory light pods to underside of headlight assemblies using one (1) M6 u-bolt, flat washers and nyloc nuts and two (2) M6 x 20 bolts, flat washers and flange nuts.

Nip tighten bolts and nuts only. Final tightening on fitment of protection bar.



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Figure 13



Working one side at a time, remove one (1) 17mm head bolt from outer front of cabin end of tilt mount.

Install cable track to outside of cabin wall and refit the original bolt.

Under the outer side of cabin, install one (1) M8 x 20 bolt, spring washer and flat washer.

Torque bolts to correct setting.  
17mm head (M12) - (torque - 75 Nm - 55.3ft.lb)  
M8 - (torque 20 Nm - 14.8 ft.lb)



Figure 14

Indicator wiring is wired from the two ends to ensure enough wire is left at the tilt point of the cabin.

Using cable ties provided, run wiring with indicator wiring to the rear of the cable run. Zip tie into position on bottom of cable run. Place head of zip ties to rear for aesthetics.

Connect accessory light. Working backward from accessory light with light connector placed to be behind the light, zip tie wiring to original equipment wiring. Where wiring comes across cabin tilt area, zip tie to lower tilt mount front hole.



Figure 15



Install protection bar to front of steel mount taking care not to damage lights, using M16 x 70 bolts, flat washers and nyloc nuts previously removed from the mount.

Lock into position with eyebolts, flat washers and nylon washers. Tighten firmly.

NOTE: M16 hinge bolts only require to be tightened to touch the alloy bracketry. Do not overtighten as this will inhibit the ability to centralise the protection bar.



Figure 16

Centralize light to protection bar opening. Tighten all bolts.  
(torque - 50 Nm - 36.9 ft.lb).



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Figure 17



Align accessory light pods parallel to front of protection bar. Tighten inner bolts.

For u-bolt, nip tighten only as overtightening will damage the pod and make installation of the lower cover difficult.

Install lower cover using M6 black allen head bolts.  
Tighten firmly. Overtightening will damage threads.



Figure 18

Fit tilt warning sticker to the passengers rear of the cabin above the tilt leavers.  
Place second label on door or in door opening in a visually prominent position.