Bullbar Installation Guide

Part Number: BU59-3661 & BU59-3511

Fits:

Toyota Prado 120 Series / Lexus GX470



This Bullbar will take approximately 6-8 hours to install

Tools required are

- Spanners and socket set.
- Screwdrivers
- Pliers and side cutters

Dobinsons BULLBARS should be installed by a qualified installer and it is the installer responsibility to ensure correct fitment.

Fully read and understand the instructions before beginning the installation.

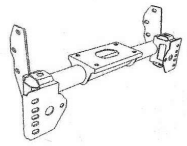
This bumper is designed to fit a Prado 120 but will fit GX470 with modifications.

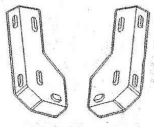
See Instructions for modifications.

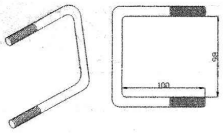
Dobinsons Springs and Suspension

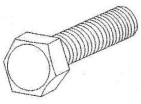
Part# BU59-3511 & BU59-3661

Fitting Instructions 2 of 2

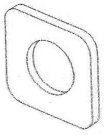
① 
Chassis bracket, 1 Set

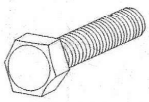
② 
support bracket , 1 Set L,R

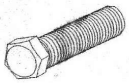
③ 
U - Bolt M12, 2 Pcs.

④ 
Bolt M12 x 35 x1.5 , 6 Pcs.

⑤ 
Nut M12 x 1.5 , 10 Pcs.

⑥ 
Square washer M12 , 18 Pcs.

⑦ 
Bolt M12 x 35 x1.25 , 2 Pcs.
(Black bolt)

⑧ 
Bolt M10 x 35 x1.25 , 4 Pcs.

⑨ 
Nut M10 x 1.25 , 12 Pcs.

⑩ 
Washer M10 , 16 Pcs.

⑪ 
Spring Washer M12 , 2 Pcs.

⑫ 
Spring Washer M10 , 12 Pcs.

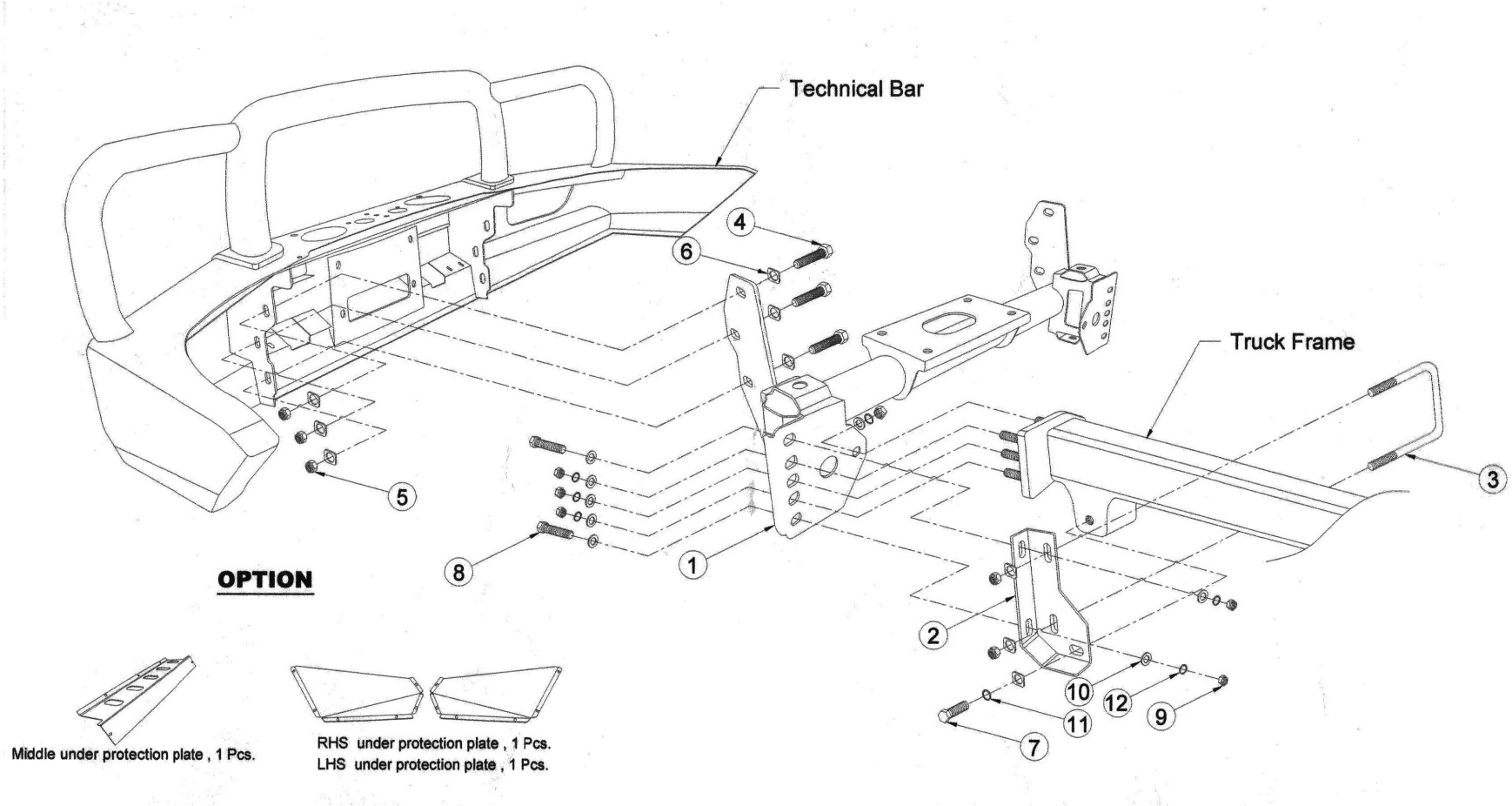
⑬ 
Bolt M6 x 15 , 15 Pcs.

⑭ 
Nut M6 , 15 Pcs.

⑮ 
Washer M6 , 15 Pcs.

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Fitting Instructions



Removing The OEM Front Bumper

1. Remove the number plate and remove the grill.
2. Remove the clips along the top of the bumper, the bolts along the edge of the wheel arch and lower section of the bumper attaching the bumper to the vehicle.



3. Carefully unclip the bumper from the edges and under the headlights and carefully remove.



4. With the bumper off you can now remove the steel bumper mount and steel crush cans.

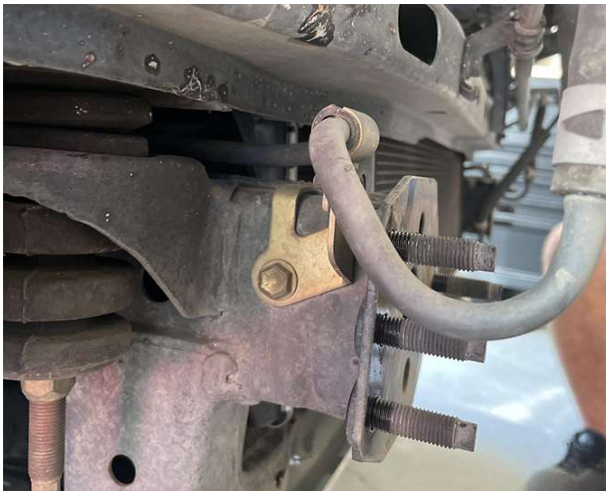




If removing the original bullbar some models require the bullbar to be removed first, then there are also bolts in the centre of the bullbar mounting crush cans that need to be removed as well before removing the original crush cans.

Installing The Bull Bar

5. From inside the chassis rails loosely install the U-bolts supplied (item 3) facing out as seen on page 3.
6. Loosely install the small mounting brackets (item 2) to the outside of the chassis as per diagram on page 3.
7. Install the bullbar mounting bracket (item 1). Washers can be placed between the top and bottom bolts between items 1 and 2 to take up the gap as per the picture below. Ensure though that when tightening the bracket tights correctly and the washers do not sit behind between the chassis and mounts.
8. (**Lexus GX470**)
    a. Vehicles equipped with a transmission cooler will have cooler lines on both the driver and passenger sides. Pry open and discard both frame horn brackets. Additionally, loosen the brackets behind the core support and slide the lines back as far as possible without allowing them to contact the body mount bushing. Doublecheck clearances to ensure the bumper support bracket (item 2) does not contact the line.
    b. The frame horn bracket may be reused if desired for a more secure mounting; however, this will **require a custom application**.



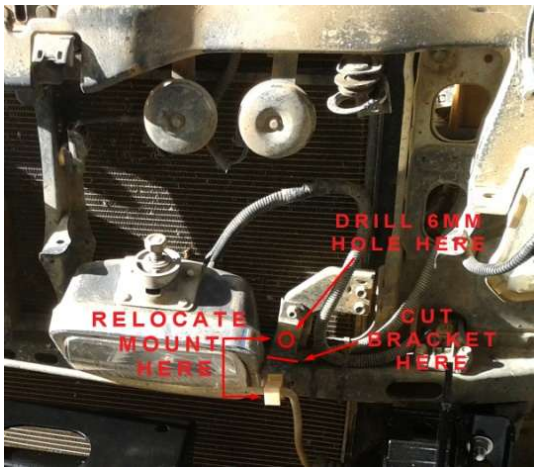


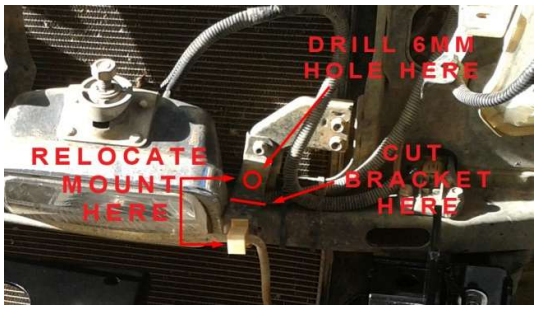
9. Ensure the bracket is central to the vehicle and tighten all nuts and bolts installed in steps 5-7. Ensure when tightening that the u-bolts have sufficient clearance to the radiator support panel.



10. Carefully un-wrap the bulbar taking care not to scratch it especially on the top loops. Reinstall the number plate. If installing driving lights to the bullbar it is easiest to install now.
11. If not installing a winch skip to step 19.
12. See the Installation section of your Dobinsons 4x4 Winch manual for specific detailed fitting instructions. For a brief overview see the following steps.

13. Test fit your winch to the mounting bracket and do up loosely with the clutch handle on the left hand side of the vehicle.
14. Some vehicles may also require the air conditioner line to be relocated when installing a winch. Unclip the passenger side front mount, cut the mount shorter and drill a 6mm hole at the top of the mount and re-clip this to its new position.





15. This may require the clutch handle and gear-box housing to be rotated forward one or 2 bolt holes to allow easy access through the bulbar holes. See instructions in winch user manual.
16. Determine where the winch control box will be located and mount the control box. See instructions in winch user manual for control
17. box mounting options. If mounting to the top of the bullbar using the supplied bracket, check clearance of control box to grill and also check where the wires will route as if the wires are passing through the holes in the top of the bullbar the control box may not be able to be wired until the bullbar has been fitted as below.
18. Wire the winch up as per the winch instruction manual and bolt the winch to the mounting bracket, ensure the mounting bolts are not too long and tighten correctly. Route the wires and connect to battery and also route the breather hose.
19. Unwind some cable from the winch, and pass the cable through the fairlead hole in the bullbar and through the roller fairlead. This may require removing a circlip from the fairlead and re installing once the cable is passed through.
20. Install the roller fairlead into the bulbar.
21. Check the poly bulbar over riders, fog light and top loop bolts are tight (Do not over tighten the stainless steel loop mounting bolts. Do not over tighten the poly bullbar over riders as they will pull the over riders out of shape).
22. If the bullbar has not been colour matched the install may choose to carefully masking tape each side of the vehicle to prevent over spray and paint the lower stepped in lips of the vehicle satin black for a nicer finish, See before and after pictures below.





23. With help, fit the bulbar onto the vehicle.
24. Align the bulbar to the vehicle and tighten the mounting bolts, leaving a gap between the bullbar wing and side guard of about 10-20mm.

25. (**Lexus GX470**)

    a. The front bumper and winch cradle are secured using six bolts installed through slotted mounting holes. These slotted holes allow the bumper shell position to be adjusted forward, rearward, upward, and downward to achieve proper alignment and fitment.

        i. Installing the bull bar in the position closest to the headlight provides the greatest clearance but also requires the most modification. Installation in this position requires trimming the fender flare to match the profile of the bull bar wing, as well as trimming the sheet metal fender located behind the flare. Because each vehicle may vary slightly, it is highly recommended to trim gradually and test-fit repeatedly throughout the process. In this configuration, the OEM front bumper is not reused.





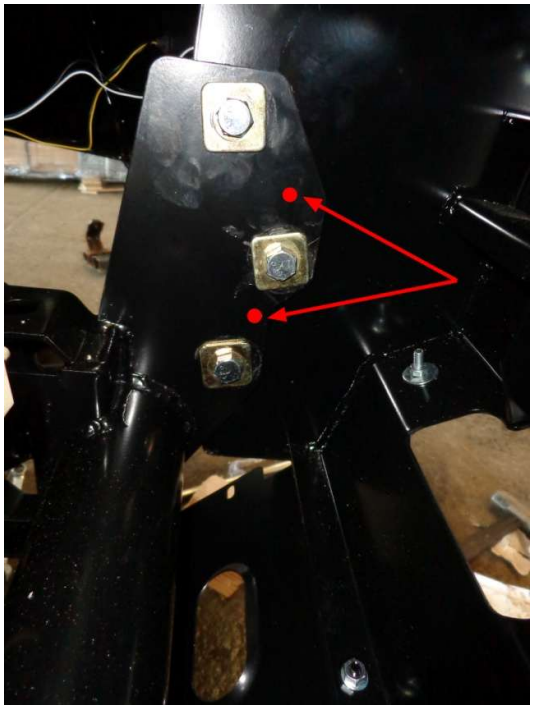


ii. Installing the bull bar with a gap between the headlight and the bull bar will require less modification but will require the OEM front bumper to be trimmed to fill the gaps. It is strongly recommended to do extensive clearance checking to make sure the tire will never contact the bull bar.





26. **We highly recommend** pairing Dobinsons suspension systems with our bull bars to ensure the proper coil springs are used to support the additional weight of the front bumper.
27. Wire up the lights. Using a multimeter or test light first locate the earth wire, parker positive and indicator positive wires from the wiring on the back of the original vehicle lights on each side.
28. Unclip the wiring from the indicator/parker lights. Check that the wiring will be long enough to reach the new bullbar indicator/parker lights and extend if required. Using the diagram at the end of this manual, join the corresponding wires to original vehicle wires located in the previous step. The wires can be joined by either using good quality snap lock crimp connectors or by soldering. Ensure the connection is secure and is sufficiently insulated.
29. If fitting a bullbar with fog lights, the fog lights can be connected using the original vehicle fog light wires if fitted. If required, cut the old fog light wiring plugs off and cut the new fog light wiring plugs and join. If the vehicle is not fitted with OEM fog lights the wiring loom supplied can be used. Follow the wiring diagram at the end of this manual.
30. Check over all bolts to ensure they are tight.
31. Once happy with the alignment of the bullbar drill 2 x 8mm pinning holes on each side of the bullbar drilling through both the mounting bracket mounting plate and bullbar mounting plate. Fix with 8mm bolts and nyloc nuts to keep the bullbar in its position. *This is easiest done by drilling from the inside.*



32. Plug the wiring clips in for the fog lights and parker/indicator lights. Test all lights and adjust the position of the fog lights if required.
33. Using the fastening hardware supplied fit the under bar protection kit.
34. Trim the mud guard liners level with the bottom of the under protection kit and secure with cable ties.
35. Check over all items removed during installation.
36. IMPORTANT NOTES: It is important to inform the customer that headlight adjustment may also be required due to the change in ride height. It is also important to inform the customer that there will be a change in vehicle handling characteristics. It is also important to note that due to their nature fog lights are required to provide a yellow light to allow clear fog vision. For this reason Dobinsons bullbars utilise a Halogen bulb. Halogen bulbs generate a considerable amount of heat to achieve the yellow colour and this causes the air inside the fog light lens to expand and contract. For this reason the fog light assembly cannot be sealed and has a small breather on the back. In some cases this may cause condensation to form inside the fog light. The customer may choose to seal the lens of the fog light but must not seal the rear breather.