Bullbar Installation Guide

Part Number: BU59-3560 & BU59-3734 & BU59-3735

Fits:

ENSURE PAGE SCALING IS TURNED OFF WHEN PRINTING

Toyota Hilux Revo 09/2021 on

Toyota Hilux Revo 2024 on (FACELIFT – REQUIRES BUMPER CUT)



This Bullbar will take approximately 4 hours to install

Tools required are

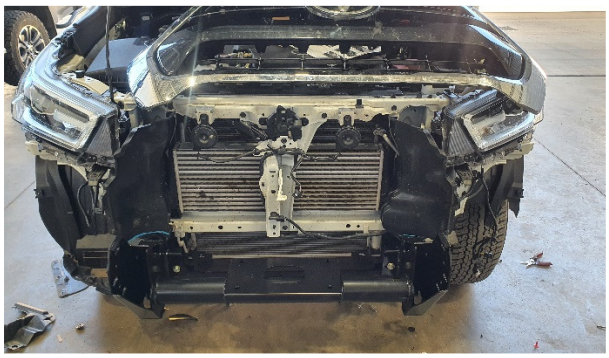
- Spanners and socket set.
- Screwdrivers
- Pliers and side cutters

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

Fitting Guide

1. Remove the number plate.
2. Remove the screws and clips in the top of the grill to radiator cover.



3. Remove the screws and bolts attached the top of the grill.
4. Remove the screws and clips along both wheel arch edges of the bumper and also along the bottom edges of the bumper that attached the bumper to the vehicle.
5. Remove the top clips that attached the under grill air damn to the top of the bumper.



6. Unclip the fog light wiring plugs if fitted.
7. Starting from either side of the vehicle gently unclip the bumper from the edge of the guard and headlight. It can be difficult to unclip the bumper from under the light corner so take your time and gently wriggle the bumper to pop out the clips



8. Remove the bumper and grill assembly as one piece.
9. Remove the grill from the bumper by popping out the locating tabs.



10. Remove the front horizontal air dam and the LH and RH vertical air dam, keeping aside for re-fitment later.



11. Remove the front plastic bumper support by sliding sideways to release from the clips and remove the steel bumper mount. Keep the original bolts for fitment of the bullbar bracket. Remove the small plastic air dams also.
12. Remove the lower bash plate and keep aside for re-fitment.



13. Remove the 2 outer bumper support brackets.



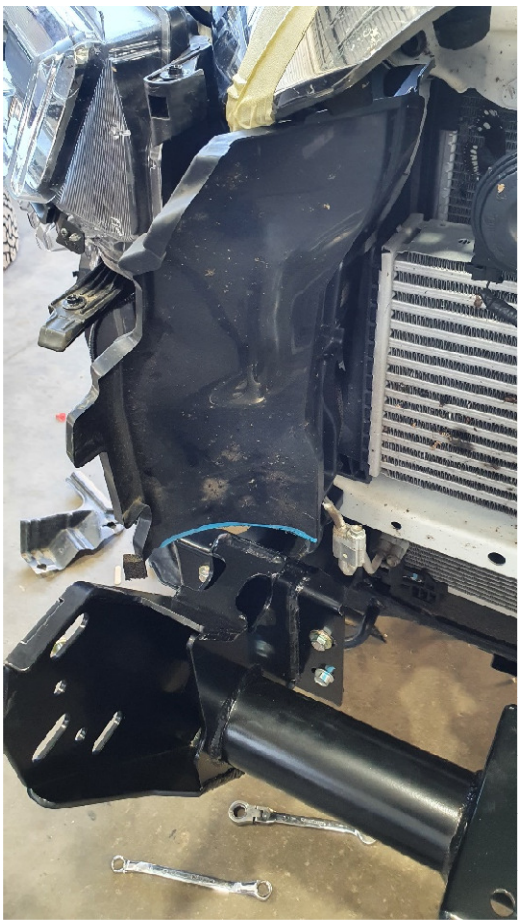
14. Install the inner and outer bullbar bracket supports to each side of the chassis using the M12 fine bolts with washers for the rear 2 outer mounting points. The longer bolts pass through the chassis through both brackets. Use a washer on each side. Leave bolts loose for now.



15. Install the bullbar bracket using the nuts, bolts and washers supplied. Use the original bolts with the washers supplied in the original bolt position.
16. Centralise the bracket to the vehicle and tighten all fasteners.



17. Trim the original LH and RH vertical air dams as seen in the photo below to clear the new mounting bracket and bullbar.



18. Re-install the air dams to the vehicle.
19. Remove the plastic screw clips from the original bumper mounts near the inner lower corners of the headlights.



20. Drill a small hole in the air damns just in front of this to attach a cable tie to, and cable tie it to stop movement.





09/2021 – 2023 Models see below

2024 on Facelift models skip to step 23

21. Trim the bottom centre section of the grill out as seen below





22. Install the new grill support bracket. Attached it to the existing grill support bracket and to the bottom screw on the camera/Toyota badge and reinstall the grill and top radiator cover. Move to step 27



2024 on Facelift models see steps 23-26

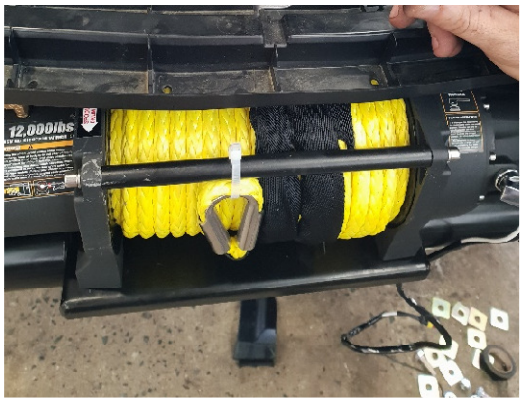
23. Check the scale line on the template at the end of this manual is correct. If not please reprint ensuring page scaling is turned off. Print and cut the template.
24. Apply some masking tape to the bumper to mark on then align the template on the bumper on the Left side and mark the cut edge, continuing it across the centre of the vehicle. Flip the template upside down and mark the right side of the vehicle
25. Cut along the marked lines, through the centre lower section of the grill.



26. Do not reinstall the grill section – this is reinstalled AFTER the bulbar is in position.

All models continued

27. Now is a good time to run the wiring for the new parker lights and indicators.
28. It is recommended to take the earth directly off the vehicle body.
29. Join into the existing vehicle headlights and indicators for the indicator, parker or DRL lights
30. If fitting a bullbar with fog lights, the fog lights loom supplied must be used as the original fog light wiring harness is not large enough for the new fog lights as the OEM fog lights are LED. If the vehicle does have original fog lights, the new loom must be used, and the trigger switching wire for the new relay can be taken from one of the original fog light plugs, so that the original in cab fog light switch can remain. This will allow the original fog light plug to power the relay for the newly supplied wiring loom which will then power the new fog lights.
31. 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.
32. If not installing a winch skip to step 37.
33. See the Installation section of your Dobinsons 4x4 Winch manual for specific detailed fitting instructions. For a brief overview see the following steps.
34. Test fit your winch to the mounting bracket and do up loosely with the clutch handle on the left hand side of the vehicle.



35. This will require trimming of the bottom centre section of the lower grill rib to allow winch clearance.
36. 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.
37. Determine where the winch control box will be located and mount the control box. See instructions in winch user manual for control 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.

38. 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.
39. 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.
40. Install the roller fairlead into the bulbar.
41. Install the parking sensors into the bulbar using the instructions at the end of this manual.
42. Carefully bend in one side of the centre tabs so that you can install the senor. Bend the tab the correct amount so that the stepped seating face of the sensor is parallel with the adhesive mounting face of the mounting bracket as seen below.
43. Check the poly bulbar over riders are tight and fit the lights and surrounds. Do not over tighten the poly bullbar over riders as they will pull the over riders out of shape).
44. Install the light surrounds to the bulbar using the bolts and clamping plates supplied. Install the Indicator/parker lights with the screws supplied.
45. If installing fog lights install now using instructions at the end of this manual.
46. If the vehicle is equipped with parking sensors install to the bulbar now using the instructions at the end of this manual.
47. Fit the rubber headlight to bumper inserts on the top of each bar and tighten (Do not over tighten). Fit the rubbing edging to the centre section of the bulbar (optional).



48. With help, fit the bulbar into position and install nuts and bolts supplied.
49. **2024 on Facelift models only:** tape the lower section of the bumper where it was cut so it doesn't get scratched and carefully reinstall the grill section to the vehicle and then remove the tape.



50. Align the bar with the vehicle into its correct position leaving a gap of about 15mm between the bullbar wing and the bottom of the quarter panel.

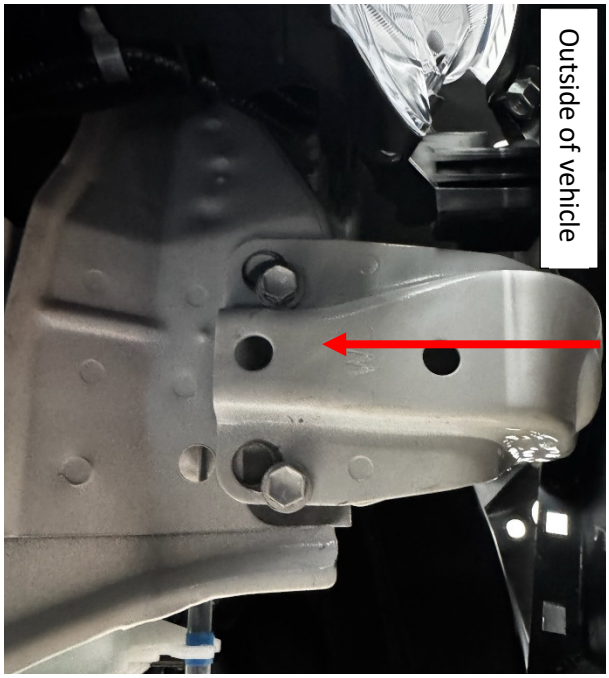


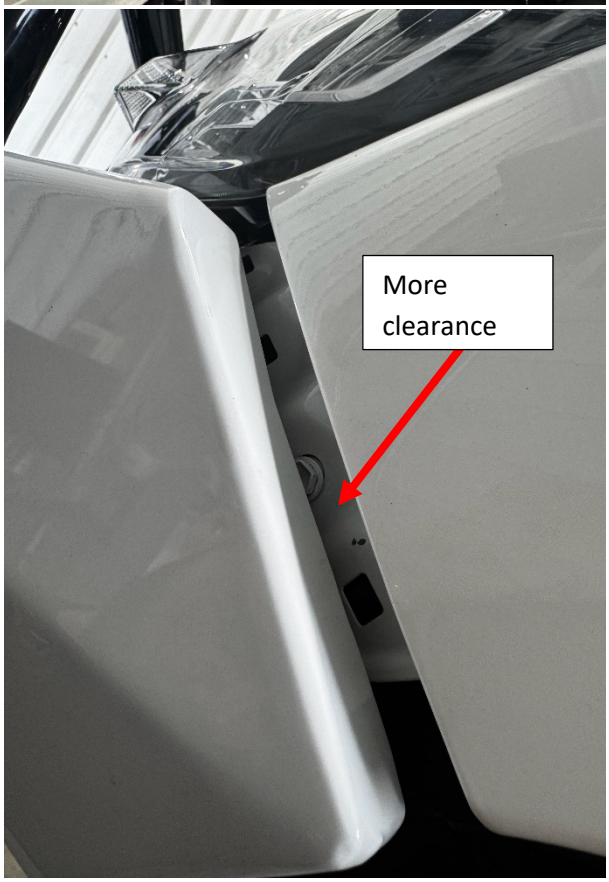
51. Once you are happy with the alignment tighten the 3 nuts and bolts on each side.



52. Check the wing clearance – depending on the vehicle the side wing of the bulbar can be close to the quarter panel. its recommended to have at least 8mm clearance. If you need a

little more clearance you can simply re-drill the quarter panel mounting bracket inner holes as shown below to move the panel in slightly.





53.

54. Once happy with the alignment of the bullbar drill through the pinning holes on each side of the bullbar bracket mounting plate. Fix with bolts and nyloc nuts the same diameter as the pinning hole to keep the bullbar in its position.

55. Plug the wires into the indicator and parker light plug. Test all lights and adjust the position of the fog lights if required.
56. Fit the under bar protection kit now with the bolts supplied. Tuck the plastic centre section of the original bash plate above the new centre bash plate.



57. Cut along the bottom of both wheel arch splash guard so that they are flush with the bottom of the side protection plate ensuring you do not cut into washer bottle bracket on the LH side and secure to the back side of the bash plates. Cut the top section so that it can be push in behind the bullbar wing.



For the LH side cut the guard slightly longer and bolt to the rear of the bash plate on the inner hole, then trim flush with the bottom of the bash plate.

58. Check over all items removed during installation.
59. 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.

Wiring Guidelines – Next-Gen Bullbars

Dobinsons Next gen Bullbars are supplied with LED indicator/Parker lights. Available extra are DRL's and Fog Lights.

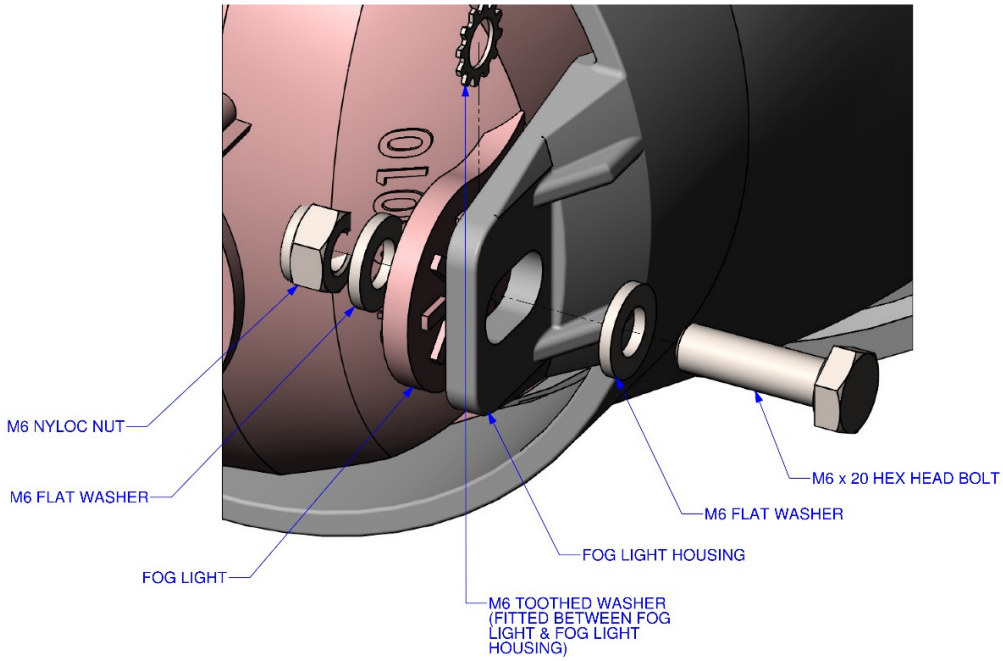
Indicator/Parker Lights

Use a multimeter to locate the existing positive and negative lights for the existing vehicle headlights park light circuit and indicator circuit and using the scotch-locks or soldering, connecting directly to the existing vehicle wiring circuit using the diagram on the following page. **NOTE:** For some later model Toyota 150 prado vehicles the Parker lights must be wired using a relayed wiring loom (a modified spotlight/foglight loom or similar) as the vehicle headlight wiring will not work – see the specific instructions with the bulbar for more information on these.

Fog lights (optional extra)

Install the fog lights into the bulbar before installing the bulbar. Use a sharp knife and from the back side of the bar carefully cut the retaining tabs on the plastic cover insert and remove.

Install the fog light with the breather at the top. Use the 6mm bolt and washer, then place the tooth washer between the light insert mount and light, then the flat washer and nyloc nut as seen on the diagram below.



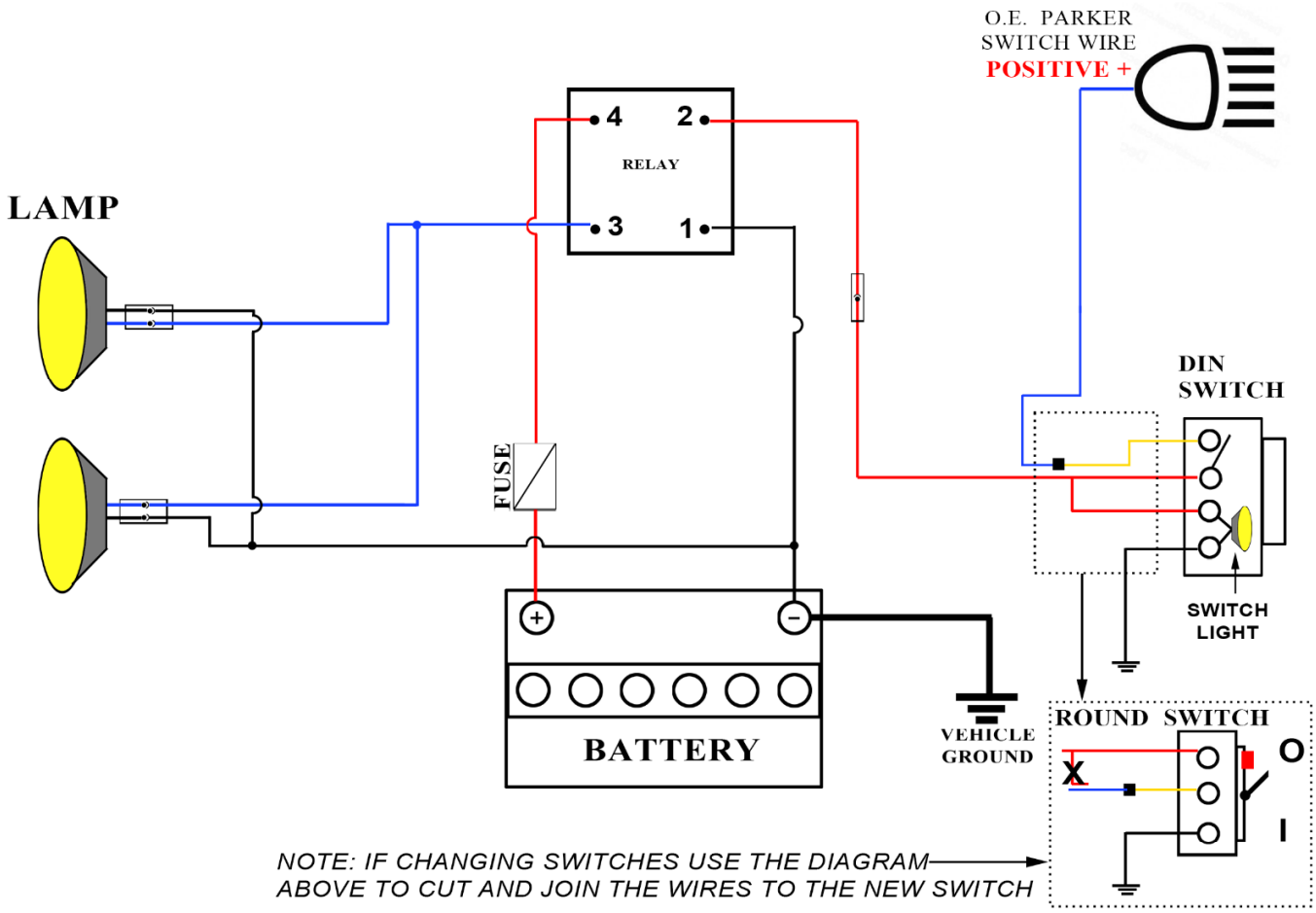
Wire the fog lights as per the diagram on the following page. There are 2 switches provided – a prewired universal single large din switch and a small universal switch. Dobinsons have some other plug and play switches available that are vehicle specific. Ashdown Ingram and similar electric wholesalers also have these switches – *Check the wiring diagrams on the packet of the switch first to ensure they will plug in and work correctly or need wiring altered.*

A round universal switch is also supplied – install the switch by drilling a xxmm hole and altering the wiring as shown.

DRL Lights (optional extra)

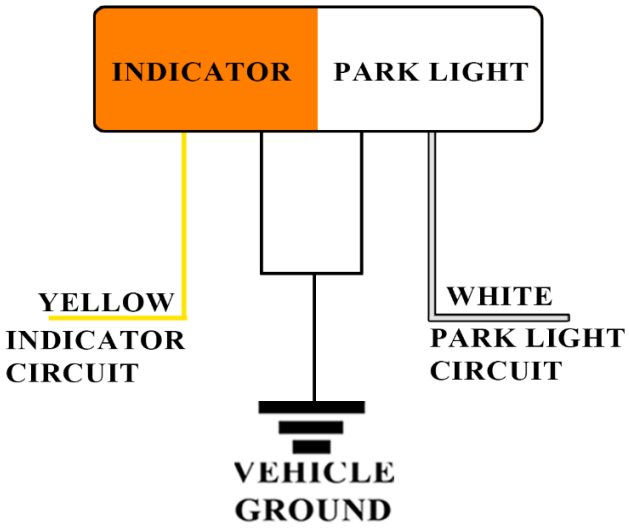
Install the DRL lights into the bulbar before installing the bulbar. Use a sharp knife and from the back side of the bar carefully cut the retaining tabs on the plastic cover insert and remove. Attach with 2 x screws supplied (there are left and right sides). Wire the lights as per the diagram on the following Page – the switching wires can be wired to ignition for lights to operate when vehicle is running, or to parker / low beam for operation when the lights are turned on only. Use screws or good quality double sided tape (such as 3m brand) to fix the control box to the vehicle body.

FOG LIGHT
WIRING DIAGRAM - SERIES 2

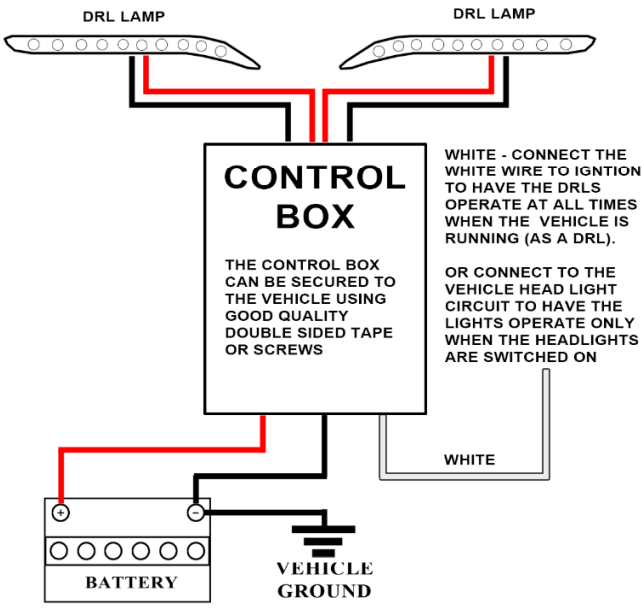


NOTE: IF CHANGING SWITCHES USE THE DIAGRAM ABOVE TO CUT AND JOIN THE WIRES TO THE NEW SWITCH

INDICATOR / PARKER
WIRING DIAGRAM - SERIES 2

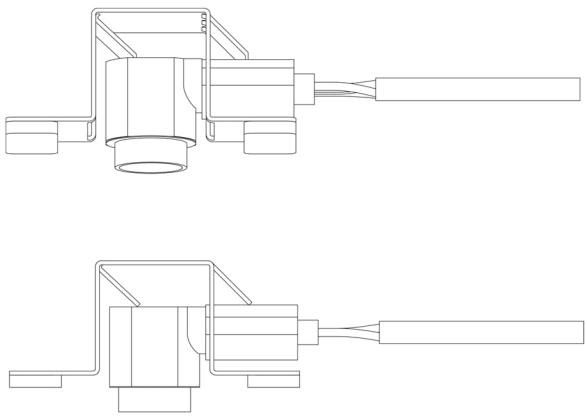


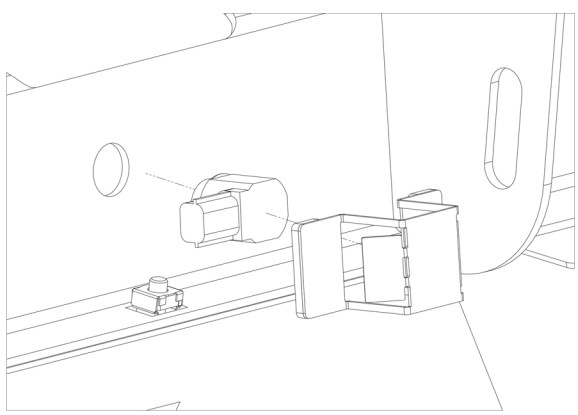
DAYTIME RUN LIGHT / DRL
WIRING DIAGRAM - SERIES 2

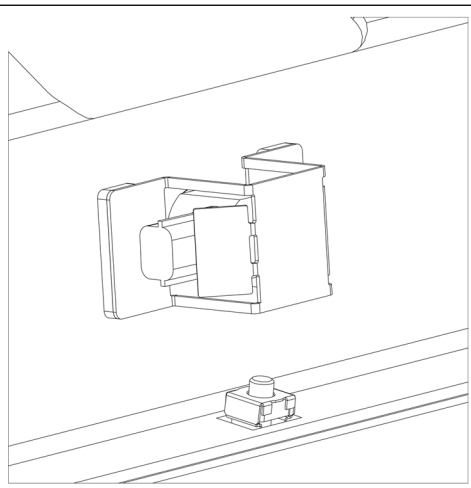


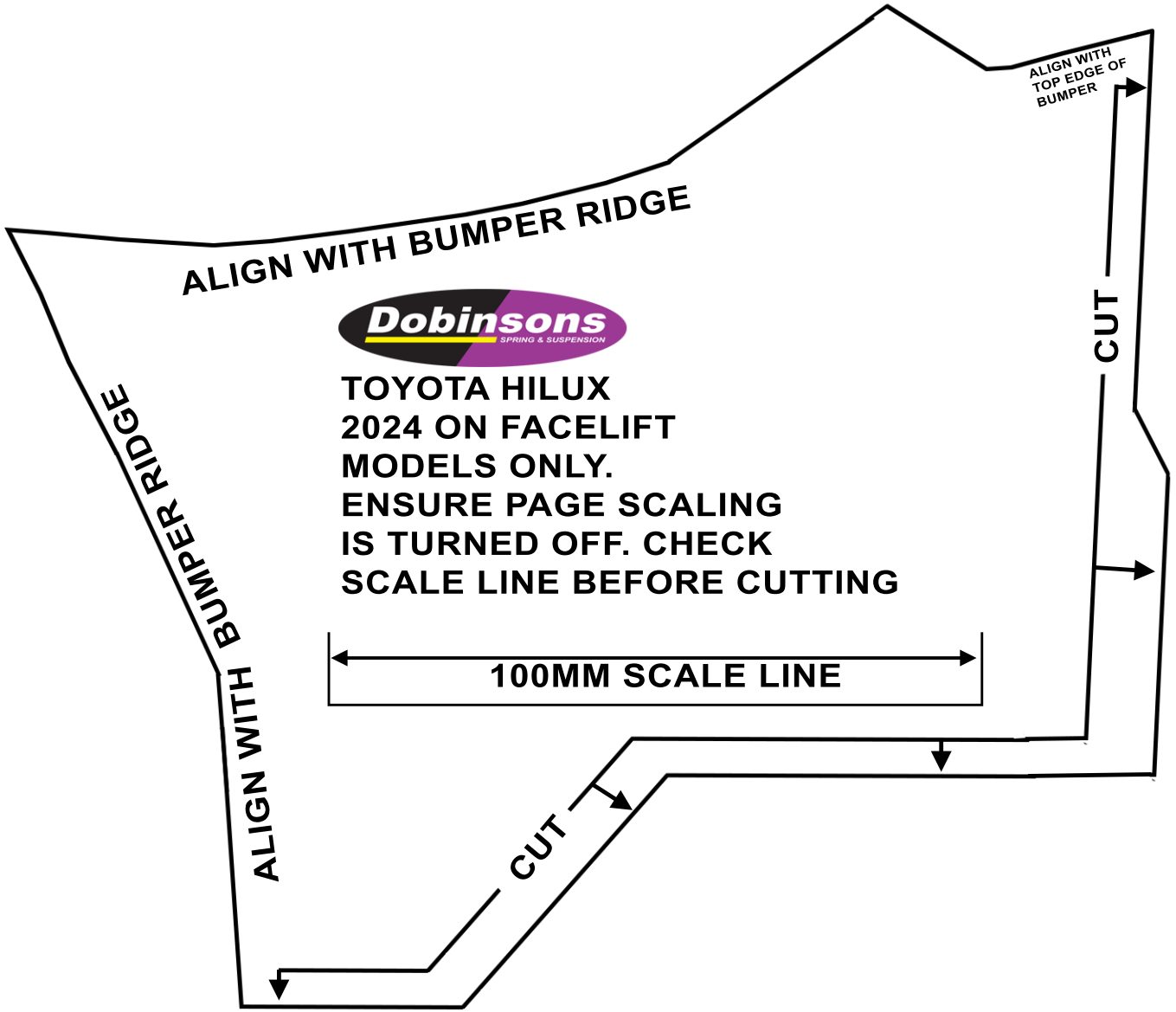
Parking Sensor Installation

1. Clean the area around the sensor hole on the back side of the bulbar with white spirits or similar.
2. One tab is bent under and one tab is bent outward as per the diagrams
3. The tabs should be bent so that when the sensor is fitted the tabs keep a small amount of pressure on the sensor
4. Fix the adhesive tape supplied, and stick to the back of the bullbar.








ALIGN WITH BUMPER RIDGE
ALIGN WITH TOP EDGE OF BUMPER
CUT
ALIGN WITH BUMPER RIDGE
CUT
Dobinsons
SPRING & SUSPENSION
TOYOTA HILUX
2024 ON FACELIFT
MODELS ONLY.
ENSURE PAGE SCALING
IS TURNED OFF. CHECK
SCALE LINE BEFORE CUTTING
100MM SCALE LINE