



NISSAN NAVARA 2015-2021

BULL-BAR INSTALLATION INSTRUCTIONS

STEP 1:

Unpack and Organise Components

Carefully unpack all Shield Offroad bullbar components, mounting brackets, protection plates, wiring and hardware.



STEP 2:

Carefully Unwrap the Bullbar

Carefully remove the protective wrapping from the bullbar.

When using a knife, cut from the inside edge of the bullbar wherever possible to reduce the risk of damaging the visible painted surfaces.



STEP 3:

Protect the Bullbar During Installation

Once the bullbar has been fully unwrapped, place it on a clean, soft protective mat, foam sheet or similar padded surface.

Do not place the bullbar directly onto concrete or other hard surfaces, as this can scratch or damage the powder-coated finish while preparing it for installation.



STEP 4:

Fit the Under-Headlight Brackets

Locate the two under-headlight brackets. Fit one bracket to each side of the bullbar in the positions shown in the photos.

Use the hardware supplied in the bag labelled "Skid Plate Screws." Assemble each fixing in the order shown: bolt → spring washer → flat washer → bracket → nut.



STEP 5:

Install the Protective Rubber Trim

Fit the supplied rubber trim along the inside edge of the bullbar, covering the areas where the bullbar may sit close to the vehicle body and headlights.

Ensure the rubber is seated securely and follows the complete inside edge of the bar.

IMPORTANT: This step must not be skipped. The rubber trim provides a protective barrier between the bullbar and the vehicle.



STEP 7:

Strip the Front-End Components

With the front bumper and grille removed, continue stripping the front of the vehicle until it matches the reference photo.

Remove the following components:

Radiator support panel/brackets

Front plastic trims and covers

Factory corner bumper retainers located on both sides of the front guards

Remove any associated clips and fasteners carefully and keep reusable hardware organised.

Important: Before proceeding to the bullbar mounting hardware, compare the vehicle with the reference photo and ensure the required front-end components have been completely removed.



STEP 6:

Remove the Front Bumper and Grille

Keep all factory bolts, clips and fasteners organised during removal, as some may be required later during reassembly.



STEP 8:

Trim the Front Inner Guard Liners

Trim the front section of the inner guard liner on both the left and right sides of the vehicle to provide the required clearance for the bullbar.

Use the photos as a reference for the cutting position and finished shape. Carefully cut away the excess liner, following the body line as shown.



STEP 9:

Prepare the Bullbar Cradle for Installation

The next stage is to install the bullbar mounting cradle.

Before fitting the cradle to the vehicle, lay out all required mounting components and hardware as shown in the reference photo. This includes:

Main bullbar cradle

Left and right red chassis mounting brackets

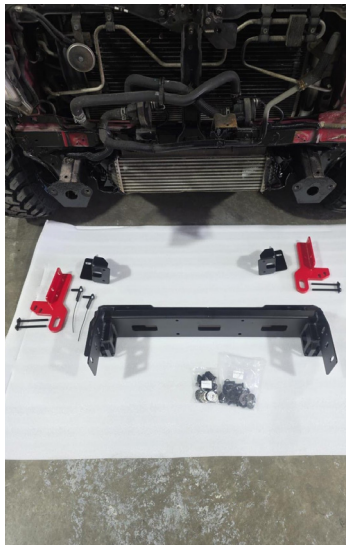
Left and right black mounting brackets

Supplied mounting bolts and retaining hardware

Required washers, nuts and associated fasteners

Keep the left- and right-hand components separated to ensure they are fitted to the correct side of the vehicle.

Important: Confirm all cradle mounting components and hardware are present before beginning installation.



STEP 11:

Prepare the Driver-Side Cradle Mounting Components

Prepare and lay out all components required for the left-hand/driver side of the cradle as shown in the reference photo.

Keep the red chassis bracket, black mounting bracket, long mounting bolts, retaining plates, nuts, washers and associated hardware together.



STEP 10:

Prepare the Passenger-Side Cradle Mounting Components

Prepare the mounting components for the right-hand/passenger side of the cradle as shown in the reference photo.

Lay out the red chassis bracket, black mounting bracket and all required bolts, nuts and washers before assembly.

IMPORTANT: When removing the factory mounting hardware from underneath the chassis, retain two of the original factory chassis bolts. These bolts will be reused during the cradle installation.

Keep the passenger-side components together to avoid mixing them with the driver-side hardware.



STEP 12:

Install Driver-Side Chassis Bolt Brackets

Insert the two supplied bolt brackets through the driver-side chassis, as shown in the photos.

Feed each bracket through the chassis opening and position it so the threaded bolts drop through and sit correctly in the existing holes in the bottom of the chassis.

Use the attached photos as reference for the correct orientation and final position.



STEP 13:

Fit Driver-Side Recovery Point & Support Bracket

Take the red recovery point and feed the U-bolt through the recovery point as shown.

Position the recovery point underneath the chassis. The two bolts previously fed through the chassis should slide through the corresponding holes in the recovery point.

Feed the U-bolt from the recovery point up into/through the chassis.

On the end bolt of the recovery point, install the flat washer, spring washer and nut.

Slide the black support bracket into position over the recovery point, following the orientation shown in the photos.

Install the bolt underneath the bracket.

Fit the spacer/washer, spring washer and nut onto the bolt and secure it in position.

Important: Keep everything slightly loose at this stage so there is enough movement to align the cradle and remaining components. Final tightening can be done once everything is correctly positioned.

STEP 13 [CONT]:



STEP 13 [CONT]:



STEP 14:

Fit Passenger-Side Recovery Point & Support Bracket

Slide the U-bolt through the recovery point and into the chassis as shown.

Use one of the factory bolts kept earlier to secure the rear mounting point underneath the chassis.

Slide the black support bracket into position on the inner side of the chassis.

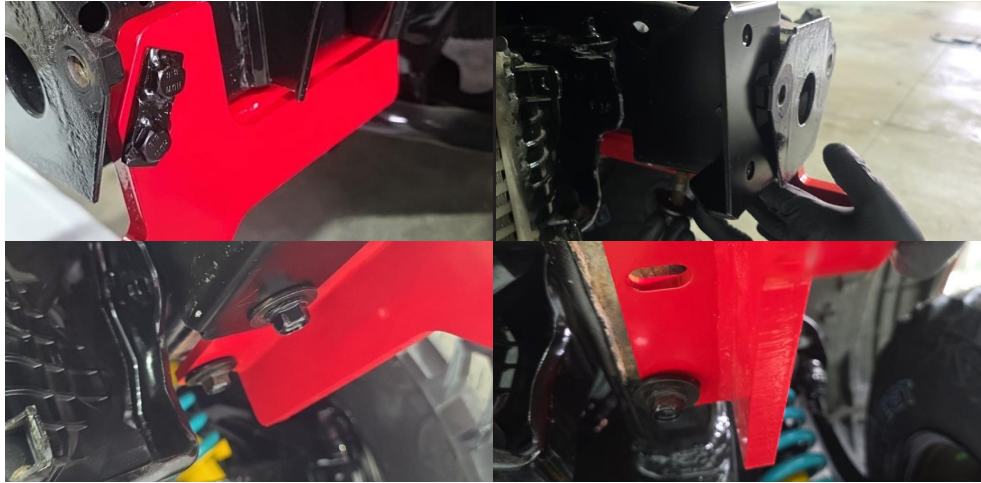
Use the second factory bolt underneath the chassis to secure the bracket.

Fit the washer and nut onto the U-bolt from the inside of the black bracket.

Make sure the recovery point and bracket are sitting correctly against the chassis.

Important: Only hand-tighten all bolts and nuts at this stage. Final tightening will be done later once the complete cradle assembly is fitted and aligned

STEP 14 [CONT]:



STEP 15:

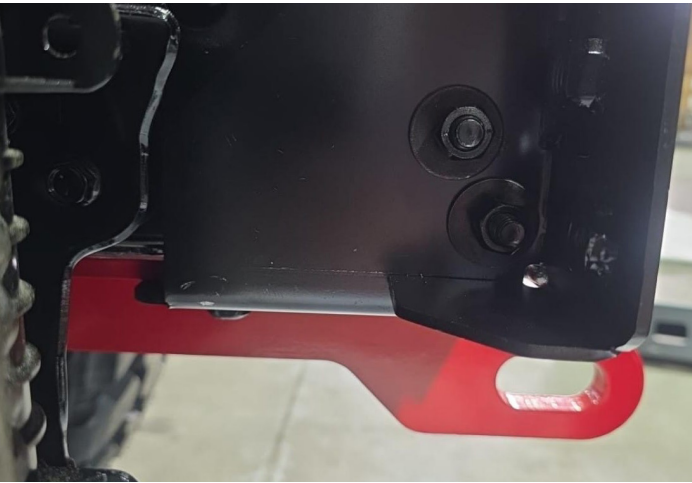
Remove the Guide String

Once the left/passenger-side brackets and recovery point are sitting correctly in position, cut and remove the guide string from the chassis.

Important: Make sure the bolts are correctly positioned before cutting the string. Keep all mounting bolts hand-tight only at this stage.



STEP 14 [CONT]:



STEP 16:

Fit & Centre the Bullbar Cradle

Position the bullbar cradle onto the mounting brackets and line up the mounting holes.

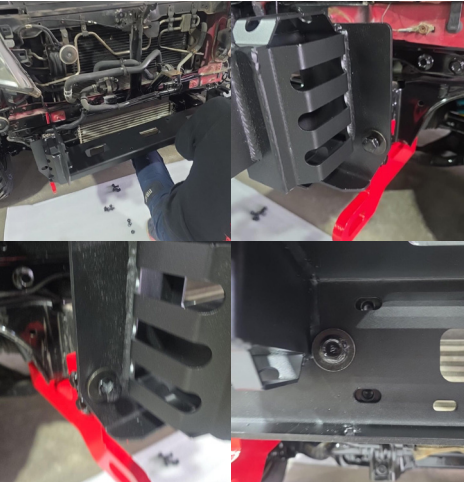
Install the two mounting bolts on each side.

Install the inside mounting bolts.

Centre the cradle on the vehicle, making sure it is positioned evenly from left to right.

Check the cradle is level and correctly aligned.

Important: Only hand-tighten all bolts for now. Do not fully tighten them yet.



STEP 17:

Fit the Inside Cradle Bolts
Fit the remaining two bolts on the inside of the cradle on each side.
2 bolts on the driver side
2 bolts on the passenger side
Fit the washers as shown.
Keep these bolts hand-tight only for now. Final tightening will be done once the cradle and bullbar alignment is confirmed.



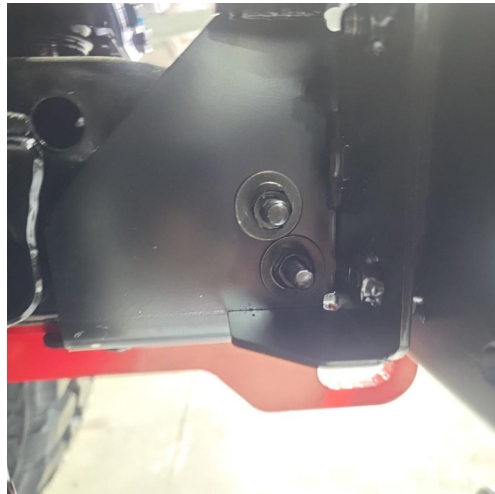
STEP 18:

Tighten the Cradle
Once the cradle is centred and correctly aligned, fully tighten all cradle mounting bolts on both sides.
Important:
Make sure every bolt is fully tightened. Every bolt must have a spacer and spring washer fitted.
Double-check all mounting points before moving to the next step.



STEP 19:

Once the cradle is centred and correctly aligned:
Tighten the bottom chassis bolts first on both sides.
Tighten the support bracket nuts on both sides.
Tighten all remaining cradle and mounting bolts.
Check every mounting point and make sure all bolts and nuts are fully tightened and secure.
Make sure every mounting bolt has the correct spacer and spring washer fitted.



STEP 20:

Feed the Wiring Into the Cab
Before fitting the bullbar, feed the required wiring through into the vehicle cab.
Route the wiring neatly through to the cab.
Keep the wiring clear of hot, sharp or moving components.
Leave enough length at both ends for connection later.
Secure the wiring where required.
Once the wiring is routed correctly, proceed with fitting the bullbar



STEP 21:

Connect the Bullbar Park Light Wiring
Unclip the factory headlight wiring loom.
Using a circuit tester, identify the park light wire.
On this vehicle, the park light wire is:
Red wire on the male side of the plug
Blue wire on the female side of the plug
Carefully expose a small section of the blue wire without cutting the wire completely.
Connect the bullbar park light feed wire to the exposed section.
Make sure the connection is secure and properly insulated/sealed.
Important: Always confirm the park light circuit with a tester before connecting, as wire colours may vary between vehicles.

STEP 22:

Connect the Bullbar Indicator Wiring
Now repeat the same process for the indicator wire.
Locate the factory indicator wiring. There are two wires: black and pink.
The pink wire is the indicator feed.
Carefully expose a small section of the pink wire without cutting it completely.
Connect the bullbar indicator feed wire to the exposed section.
Secure and properly insulate/seal the connection.
Important: Confirm the indicator wire with a circuit tester before making the connection



STEP 23:

Prepare the Bullbar Light Wiring
You should now have the two trigger wires ready:
Park light feed – connected from the factory park-light circuit.
Indicator feed – connected from the factory indicator circuit.
Leave enough length on both wires so they can easily reach the bullbar light wiring once the bar is fitted.
Secure and insulate all joins properly before continuing.



STEP 24:

Solder & Insulate the Passenger-Side Wiring
Once both the park light and indicator wires are connected:
Solder the wire connections securely.
Insulate each connection properly.
Tape the wiring loom back up neatly with electrical/loom tape, ensuring all exposed wiring is protected.

STEP 25:

Driver-Side Park Light & Indicator Wiring
Now repeat the wiring process on the driver side.

Park light:

Locate the headlight wiring loom.

The park-light wire is orange with a black stripe on one side of the plug, changing to blue through the male/female connection.

Always confirm the correct park-light wire with a circuit tester before connecting.

Carefully expose a section of the blue wire and connect a new wire to it.

Run this wire down to the bullbar for the driver-side park light.



STEP 27:

Route the Bullbar Light Wiring

Run the bullbar light wiring loom across the front of the vehicle, leaving one plug on each side for the bullbar lights.

Route the wiring neatly through the engine bay, following the factory wiring where possible.

Feed the switch cable through the firewall grommet into the driver's side cab.

Pull enough cable through to reach the switch panel.

Fit the bullbar light switch into the factory switch panel as shown.

Important: Secure the loom neatly with cable ties and keep all wiring away from the radiator/fans, belts, hot components and sharp edges.



STEP 26:

Feed the Bullbar Wiring Loom

Now it's time to install the bullbar wiring loom.

Lay out the wiring loom and identify the switch wiring.

Route the loom neatly through the engine bay.

Feed the switch wiring through the firewall and into the cab.

Leave the remaining loom in the engine bay ready to connect to the bullbar lights and power supply.

Keep the wiring away from hot, sharp or moving components.



STEP 28:

Fit the Bullbar to the Cradle

Carefully lift the bullbar onto the cradle and line up the mounting holes.

Each side of the bullbar uses 3 bolts and 3 nuts.

Feed the 3 bolts through the bullbar mounting plate and into the cradle as shown.

Fit the 3 nuts on the inside to secure the bullbar.

Repeat the same process on the opposite side.

Do not fully tighten yet — leave enough movement to centre and level the bullbar before final tightening.



STEP 29:

Secure the Bullbar

Once the bullbar is sitting correctly on the cradle:

Fit all 3 bolts on each side through the bullbar mounting plate and cradle.

Fit the 3 nuts on the inside of each side, as shown.

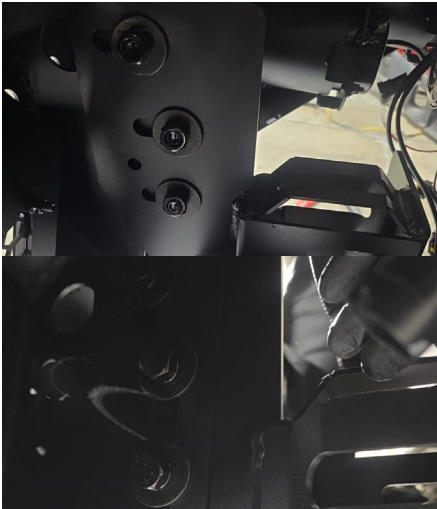
Make sure the correct washers are fitted to each bolt.

Keep the bolts slightly loose at this stage so the bullbar can still be adjusted.

Centre the bullbar on the vehicle and check that both sides are sitting evenly with the same clearance.

Once the position is correct, tighten all 6 mounting bolts securely.

Important: Do not fully tighten the bullbar until it is centred and level.



STEP 31:

Connect the Bullbar Lights

Each side of the bullbar has the combination light assembly shown.

Inner halo/ring light = Park light

Outer halo/ring light = Indicator

Two centre spotlights = Auxiliary lights

Connect the park-light wire from the bullbar to the park-light feed we ran earlier.

Connect the indicator wire to the indicator feed we ran earlier.

The two centre spotlights are separate from the park/indicator circuit. Connect these to the supplied bullbar wiring loom so they operate from the separate switch inside the ute.

Repeat on both sides of the bullbar.

Important: Passenger-side and driver-side factory wire colours are different, so follow the wiring identification from the earlier steps rather than assuming both sides are the same.



STEP 30:

Bullbar Fitted & Final Alignment

With the bullbar mounted:

Check the bar is level and centred on the vehicle.

Check the clearance around both headlights and guards is even.

Make sure neither side is sitting higher or further forward than the other.

Once the position is correct, fully tighten all 3 mounting bolts/nuts on each side.

Recheck alignment after tightening, as the bar can move slightly while the bolts are being torqued.

These three photos are good for showing the correct final position and alignment before moving onto the remaining wiring/finishing work.



STEP 32:

Prepare the Bullbar Light Wires

Before making the connections:

Inner light (park light): Cut/remove the yellow wire — this wire is not required.

Outer light (indicator): Cut/remove the green wire — this wire is not required.

Leave the remaining wires ready for connection to the park-light and indicator feeds installed earlier.



STEP 33:

Connect the Park Light & Indicator

Now connect the wires previously fed down from the factory wiring:

Park light: Connect the park-light feed wire to the green wire on the inner bullbar light. This powers the inner park-light ring.

Indicator: Connect the indicator feed wire to the yellow wire on the outer bullbar light. This powers the outer indicator ring.

Solder the connections securely, insulate them properly with electrical tape/heat shrink, and repeat the same connections on the other side.



STEP 34:

Repeat on the Other Side

The bullbar light wiring on the other side is exactly the same:

Inner light green wire → park-light feed

Outer light yellow wire → indicator feed

Remove/cut the unused wires as shown previously.

Solder and insulate all connections securely.

Secure the wiring away from sharp edges and moving parts.

STEP 35:

Connect the Bullbar Wiring Loom

Now plug the male and female connectors from the bullbar wiring loom together.

Make sure both plugs are pushed in fully and the locking clips are engaged.

This connects the loom for the bullbar spotlight switch that was fed into the ute earlier.



STEP 36:

Fit the Side Skid Plates

Now fit the side skid plates to the underside of the bullbar.

Use the supplied skid plate screws with the washers as shown.

Install all the screws hand-tight only at first. This allows the skid plate to move slightly so all mounting holes can be lined up correctly.

Once all screws are fitted and the skid plate is sitting correctly, go back and tighten them securely.

Repeat the same process on the other side



STEP 37:

Fit the Bottom Skid Plate Bracket

Now fit the bottom skid plate support bracket.

Position the bracket across the bottom of the bullbar, as shown in the photos, and line up the mounting slots on each end.

Fit the bolts on both sides and leave them hand-tight initially so the bracket can still move for alignment.

Once the bracket is sitting straight and all mounting points are lined up, tighten both sides securely.

This bracket will support the bottom skid plate in the next step.



STEP 38:

Refit the Factory Bash Plate

Now refit the factory bash plate.

Position the bash plate back into place and line up all 4 mounting points:

Fit the 2 rear bolts back into the factory mounting points.

Fit the 2 front bolts into the new support bracket we just installed.

Start all four bolts by hand first to make sure everything lines up correctly. Once all bolts are in place, tighten them securely.



STEP 39:

Fit the Shield Skid Plate

Now fit the Shield skid plate underneath the bullbar.

Lift the skid plate into position and line it up with the mounting holes on the bullbar and support bracket.

Start all the bolts by hand first. Do not fully tighten any one bolt until the entire skid plate is lined up correctly.

Once all bolts are fitted and the skid plate is sitting straight and even, tighten all bolts securely.

The skid plate should sit firmly underneath the bullbar with no movement.



STEP 40:

Fit the Number Plate Swivel Bracket

Position the number plate swivel bracket over the centre opening of the bullbar as shown.

Use the 2 supplied bolts, washers and nuts to secure the bracket through the two mounting holes.

Line the bracket up straight, then tighten both bolts securely.

Make sure the bracket can swivel freely once fitted.



STEP 41:



STEP 42:

Final Step – Connect the Switch Wiring Loom

Once all the bullbar wiring and installation is complete, connect the switch wiring loom to the battery.

Connect the RED wire to the positive (+) battery terminal.

Connect the BLACK wire to the negative (-) battery terminal.

Make sure both connections are tight and secure.

Secure the loom away from hot or moving components.

Once connected, test the spotlights, park lights and indicators to make sure everything is operating correctly

