4WD INTERIORS

INSTALLATION OF ROOF CONSOLE

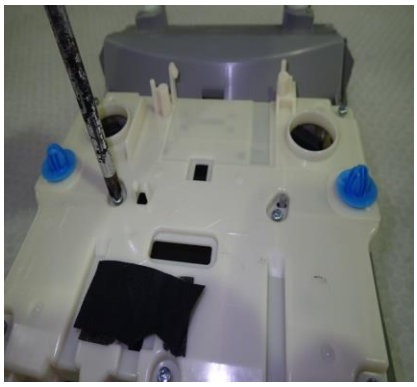
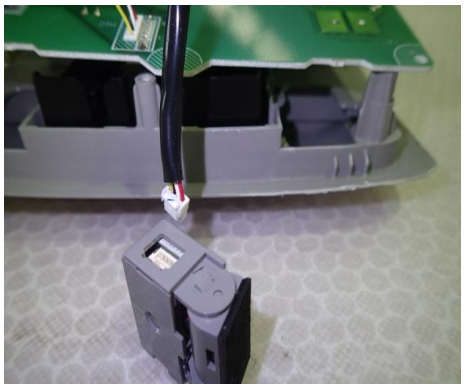
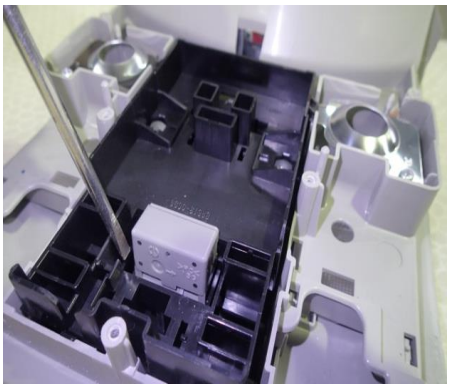
PRADO 150 SERIES 2009 ON… ***PART NO: RCPR150***

Installation advice: although this console can be classed as a DIY fitment, it involves dis-assembly of light pod circuit board and Bluetooth microphone, and re-attaching to console body. We recommend the use of your local off-road accessory store to perform this fitting.
Not connecting all wiring correctly and taping up all connections as described in the following instructions could result in an electrical short and void console warranty.

For this installation you will need a **long** Phillips screwdriver, short thin width flat screw driver, 3.0mm 'stubby' drill bit, battery or electric drill, tape measure, small steel ruler or straight edge, 'box cutter' knife or similar, automotive wire cutter and wire stripper, marking pen or pencil, electrical insulation tape, cleaning spirits, cleaning cloth and Loctite. Use Loctite on all console screws when installing. All fixing plates, brackets, fixing screws supplied in fit kit.

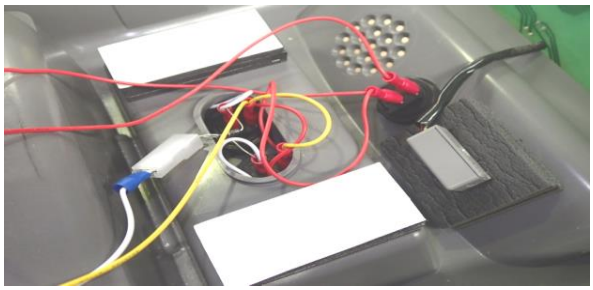
VEHICLE PREPARATION:
Remove front light pod from roof of vehicle; to do this, pull down firmly with care from the front centre of light pod and unclip from roof cavity. Pull out any upholstery plugs and attach to light pod if they've stayed attached to vehicle frame. Unplug light pod from wiring harness and store pod aside for refit to vehicle upon removal of console. ***NOTE:*** Console installation will cover Light pod opening in roof lining.

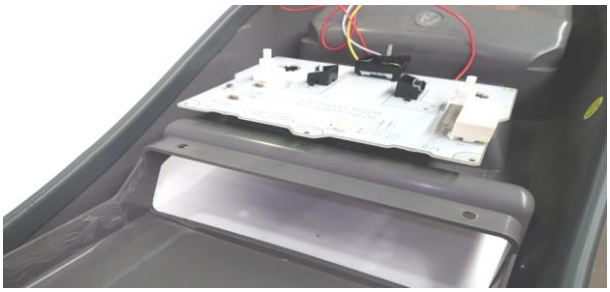
Circuit board/Bluetooth microphone removal from Light Pod.
Remove 7 small screws from top of light pod cover to reveal circuit board. Lift circuit board from pod to expose Bluetooth microphone. Unclip wire connector from microphone head and pull Bluetooth wire loom through outer pod casing. Use a small thin width screw driver to push tabs apart and release microphone from light pod cradle. Re-attach wiring loom to microphone head. Remove light globes from circuit board. Switch ON-DOOR-OFF to 'OFF' position, and tape up with electrical tape to prevent switch from moving.

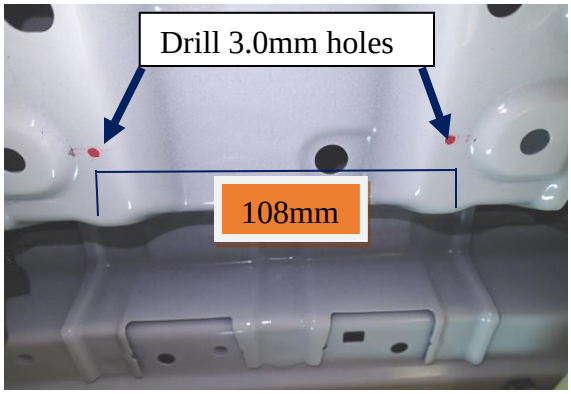
Attachment of circuit board/Bluetooth to console body:

Wipe inside of console with an alcohol based cleaning solution or similar to each side of front LED lights and over right hand side speaker grille. Stick down square piece foam for Bluetooth Microphone Head onto cleaned grille surface. Stick down 10mm high double sticky backed foam pieces to each side of LED lights. Clean green side of circuit board with cleaning solution in area where it will adhere to sticky back foam. Insert Bluetooth microphone head into foam square. Press down circuit board to sticky back foam with harness connector facing left side and up. Position circuit board more towards right hand side, and rearwards to allow for the wiring connector terminal to clip into position.





Front Mount Bracket installation: mark a straight line through the centre line of the two (2) rearwards light pod 'blue plugs' mount holes. Hold front mount bracket over line and mark through bracket holes (108mm centres). Drill two (2) 3.0mm holes at the 108mm centres on newly marked line. Share the yellow earth wire with the left side self- tapper screw and fit front mount bracket to drilled holes with two (2) 10# x 20mm screws and a dab of Loctite or similar.

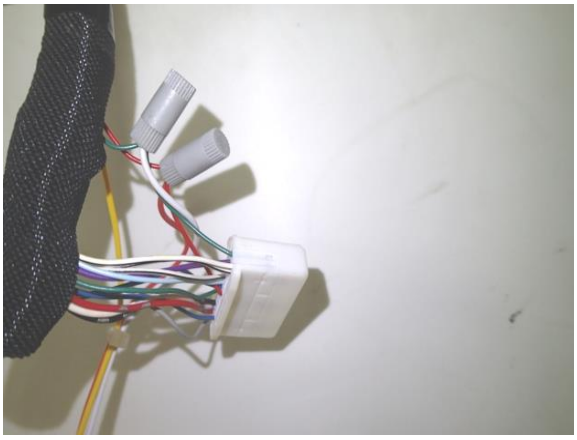


Rear Mount Plate installation:

Measure from **front edge** of light pod opening on roof lining rearwards **675mm** and place a small mark onto roof lining. Above this point is a 20mm wide roof rib that runs across the vehicle. Measure from each side of vehicle to find the centre. Insert a 'stubby' 3.0mm drill bit into electric drill **ensuring only 20mm maximum of drill bit is protruding out of drill chuck.** With 20mm of drill bit exposed, drill two (2) 3.0mm holes 65mm apart from centre line of vehicle through the roof lining into roof rib. Please note roof rib is only 20mm wide, therefore accuracy is required in all your measuring.

TIP: Use a strong magnet to find rib above lining. Fasten rear fixing plate to roof rib with captive nuts facing **forwards and downwards,** using two (2)10# x 20mm self-tapper screws. Two decorative snap caps are supplied to cover drilled holes upon removal of console.

Installation Preparation: Carefully unwind insulating tape from light pod loom harness for a distance of approx.120mm to expose all wires. Cut through the two (2) designated wires approx. 60mm up from harness connector. **Note:** As lighting wire is a very small gauge, take care in stripping off 10mm of plastic coating. Cut the Green wire in Terminal 1 position and using the Posi-Lock twist connector, twist the 2 green together along with the white wire from extension loom. Cut Red wire in terminal 21 position and using Posi-Lock twist connector, twist the 2 red ends together with the Red wire from extension loom. Attach yellow wire from extension loom to yellow wire fixed to front mount bracket.



NOTE: To use Posi-Lock twist connectors, twist all 3 wires together, insert short threaded section over the 3 wires until the bare wires are past the thread, then screw main body to short section until locked. No wires should be able to be pulled from connection when done correctly.

Comfortable work position: Slide seats all way back, if right handed - sit in passenger seat, if left handed - sit in driver seat.

CONSOLE INSTALLATION:

Stand console upright on centre console and dash board. Plug console wiring into wiring extension loom hanging out from light pod opening. Tape up all wiring connections. Have a helping hand hold console up close enough to re-attach wiring harness into Light Pod/Bluetooth circuit board. Close doors and test lights before screwing console to brackets.

There is an '**on/off'** switch located above radio opening, when switch is '**off'** it acts as a **'Kill**' switch-- no lights will work. When switch is '**on'** console lights will work independently as map/interior lights when doors are shut and timer switches off. When doors are opened lights will work as door/interior lights.

Use 'Blu-Tack' in fit kit to adhere one of the 6mm x 50mm round head bolts to **long** Phillips screwdriver, put a small amount of 'Loctite' on thread and store in convenient location, eg: in/on centre console, ready for installation.

Hold console up in position **under Front Mount Bracket** ensuring bracket captive nuts line up with holes in console body above radio opening. Look up under **rear mounting hole** and line up captive nuts in Rear Mount Plate with slotted holes in console body, tuck wiring loom out of way so as not to jam between console body and Plate. **Loosely** fasten console up to one of the captive nuts in Rear Mount Plate using the 6mm x 50mm bolt 'Blu-Tacked' to screwdriver.

Push up firm on front of console and **finger fasten** front of console to Front Mount Bracket using the two (2) 6mm x 20mm countersunk Phillips head bolts supplied.

'Blu-Tack' other 6mm x 50mm round Phillips head bolt onto screw driver, apply 'Loctite' and fasten into Rear Mount Plate; now tighten all 4 console mounting bolts. ***NOTE:*** *Only tighten bolts up firm enough so console is held to roof.* ***DO NOT*** *tighten so as to bend rear mount plate downwards; do rear bolts up with equal tension.*

Open Locker Box and remove Microphone Cable Holder and Rear Mounting Hole Cover from inside; fasten Hole Cover in place using screws supplied. Fasten Microphone Cable Holder in place as per radio installation instructions.

Fit Kit: RCPR150

One (1) Front Mount Bracket
One (1) Rear Mount Plate
One (1) Console wiring extension loom
One (1) Yellow earth wire
Two (2) Posi-Lock wire connectors
Four (4) 10# x 20mm Phillips self tapping screws
Two (2) 6mm x 20mm countersunk Phillips head bolts
Two (2) 6mm x 50mm Phillips Pan head bolts
One (1) Small piece of 'Blu Tack'
One (1) sticky back foam Microphone Head holder
Two (2) double side sticky foam for circuit board
Three (3) x100mm Sticky back foam pieces (radio)
One (1) Microphone cable holder
Two (2) Plastic washers for snap caps
Two (2) Plastic snap caps (grey)

RADIO INSTALLATION

Radio Insert Installation: for smaller size radios

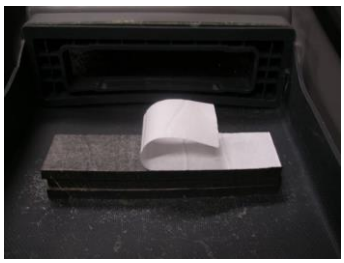
PLEASE NOTE: Radio Inserts NOT INCLUDED.

Decorative side of insert faces outwards and snaps out over bottom of tray surround.

To install insert, squeeze top and bottom together; push/bend sides and squeeze into tray surround from inside to outside until bottom lip on decorative side of insert snaps/pops out over bottom of tray surround, prize with fingers to ensure bottom lip of insert is in place over tray surround as described. **Do not** scratch or mark insert or surround by prising/levering with tools; use hands/fingers only.

Radio Installation:

Place protective cover on work bench to avoid scratching console.
Place console on protective cover and using a sharp knife cut a 30mm x 100mm section out of storage tray 25mm in from where rear of radio will be when installed. Use a small amount of methylated spirits on a clean cloth to clean exposed part of console and bottom rear of radio.



Peel one side of protective backing from foam strip supplied; apply pressure with palm of hand to adhere foam to exposed part of console. Peel backing off other side of foam strip and add one or more strips of foam to suit different size radios (see chart below). This will keep radio level with bottom of surround.

Insert radio on an angle until radio protrudes 15mm out over bottom of tray surround or insert and straighten; lay flat onto sticky back foam and apply firm pressure to top of radio with palm of hand for 30 seconds to ensure good adhesion.

Sticky back foam chart:
One (1) strip- standard size radios
Two (2) strips- Icom and Uniden
Three (3) strips- GME Electrophone

Microphone and Microphone Cable Holder installation:
Install in a position that suits best, depending on vehicle and Radio model. Ensure microphone **or** microphone cable and holder does not foul on sun visor when pulled down.

Microphone clip on **slight** angle

Left hand cable outlet radios

Microphone clip on **acute** angle