

Fitting Instructions



SKU

UNTC005

PRODUCT

Towbar Wiring Harness for Ford Ranger (02/25 -on)

SPECIFICATIONS

- Approx. Fitment Time: 60 Minutes
- Dealer Coding Required: Optional
- RPA override: Manual unless coded
- Plug & Play: No. (CAN wires require scotch locking/splicing).



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version of these
instructions

TOOLS REQUIRED

- Spanners
- Sockets
- Side Cutters
- Screw Drivers

IN THIS GUIDE

- Fitment Instructions
- Warnings
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Important Information



Warning:

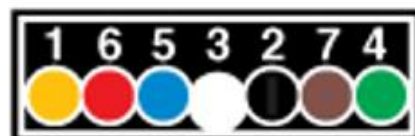
- This unit is designed to bypass the electronic control module in the vehicle.
- Coding for this unit is optional required if you desire the Trailer/Haul Mode activated automatically when a trailer is connected.
- The power source wire is for 12volt only. This should be taken directly to the battery. This wire must have a 20-amp blade fuse housing attached. Please check that a 20-amp fuse is installed.
- **THE 20 AMP FUSE MUST NEVER BE REMOVED AND CANNOT BE CHANGED FOR A HIGHER AMP FUSE.**
- If your vehicle has a dedicated towbar fuse within the fuse box, this is to remain as well – no fuse is ever to be removed or cut out.
- Make sure to inform the customer that there is a 20-Amp blade fuse on the power source wire wherever you have made the connection, in the event the fuse needs to be replaced. **Kindly show them where they can access it.**
- Please give this copy of the instructions to your customer.
- Contact an authorised TAG distributor or the TAG fitment center - (07) 3208 3022 - if further information is required.

7 Pin Flat Plug & Socket

PIN No.	CIRCUIT	COLOUR
1	Left-hand turn	Yellow
2	Reversing signal	Black
3	Earth return	White
4	Right-hand turn	Green
5	Service brakes	Blue
6	Stop lamps	Red
7	Rear lamps, clearance & side marker lamps	Brown



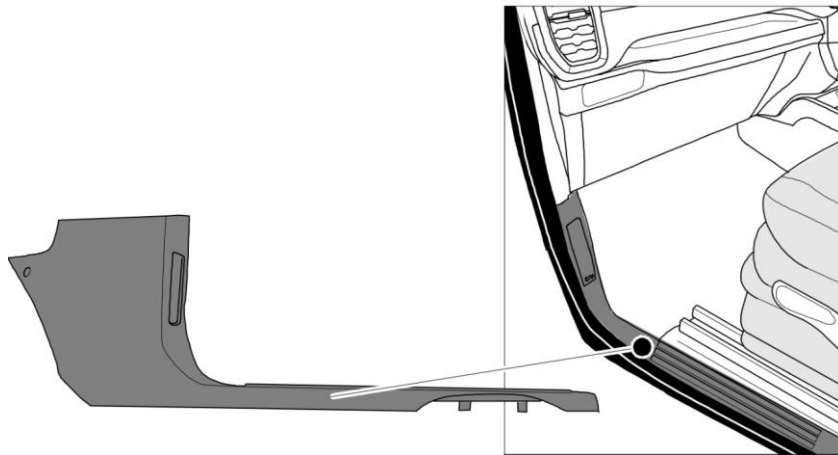
7 Pin Plug



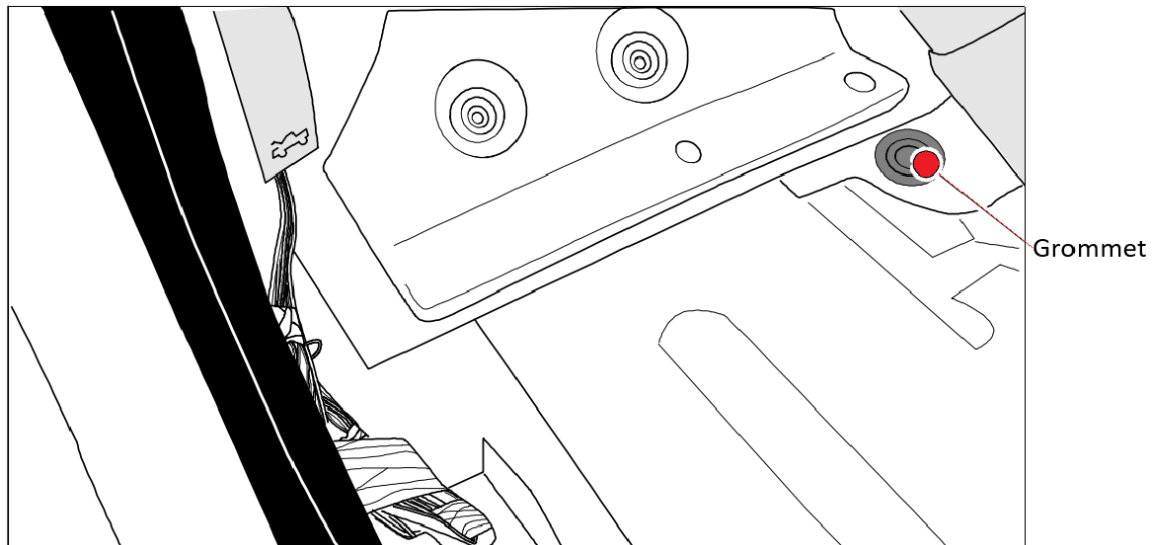
7 Pin Socket

Step 1: Install Wiring Harness

1. Open the bonnet.
2. Remove the vehicle key from the vehicle
3. Disconnect the negative battery terminal
4. In the front passenger side, carefully dislodge and remove the kick/scuff trim.



5. In the front of the passenger footwell, remove 2x scrivenets which secure the carpet to the floor.
6. Peel up the carpet to expose a grommet on the right hand side of the footwell.



7. Feed the tail section of the UNTC005 harness through the grommet hole up until the grommet on the UNTC005 harness.
8. Seat the grommet ensuring it makes a good seal.
9. Underneath the vehicle, route the tail section along the chassis to the rear of the vehicle toward the towbar plug bracket. Follow the vehicle harness as best as possible. Use cable ties (not included) every 200-300 mm to secure the UNTC005 harness to the existing vehicle harness and chassis.

NOTE: Route the harness in a manner to avoid sharp parts and sources of heat. Ensure the harness is at least 150mm away from sources of heat such as the exhaust pipes.

Installation Instructions



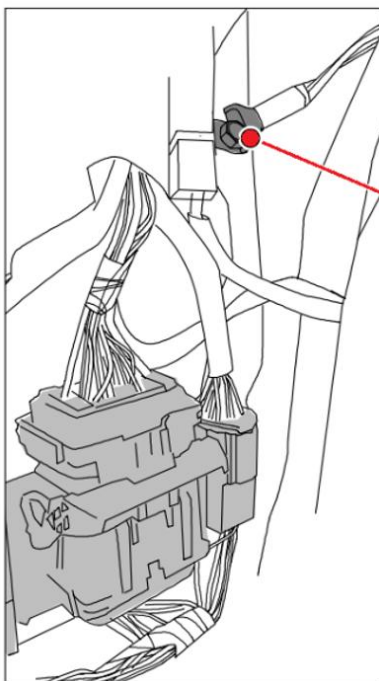
10. At the rear of the vehicle, wire up the included 7-pin socket as per the diagram below:



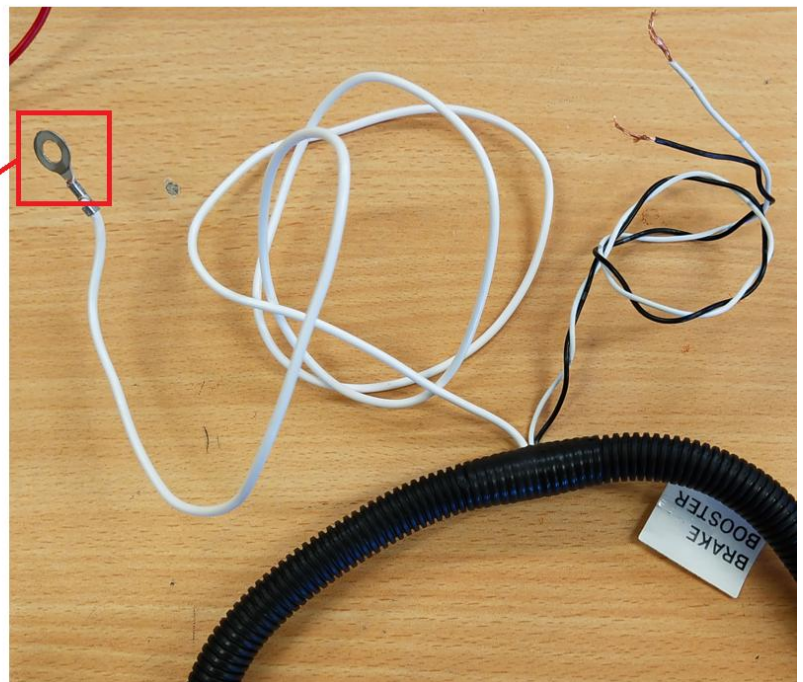
Pin No.	Wire Colour	Function
1.	Yellow	Left indicator light
2.	Black	Reverse
3.	White	Earth
4.	Green	Right indicator light
5.	Blue	Electric Trailer Brakes
6.	Red	Brakes lights
7.	Brown	Tail light, number plate light

11. Back inside the vehicle, on the left hand side of the front passenger footwell, locate the Earth Stud.

12. Fasten the UNTC005 Earth ring terminal to the Earth Stud.



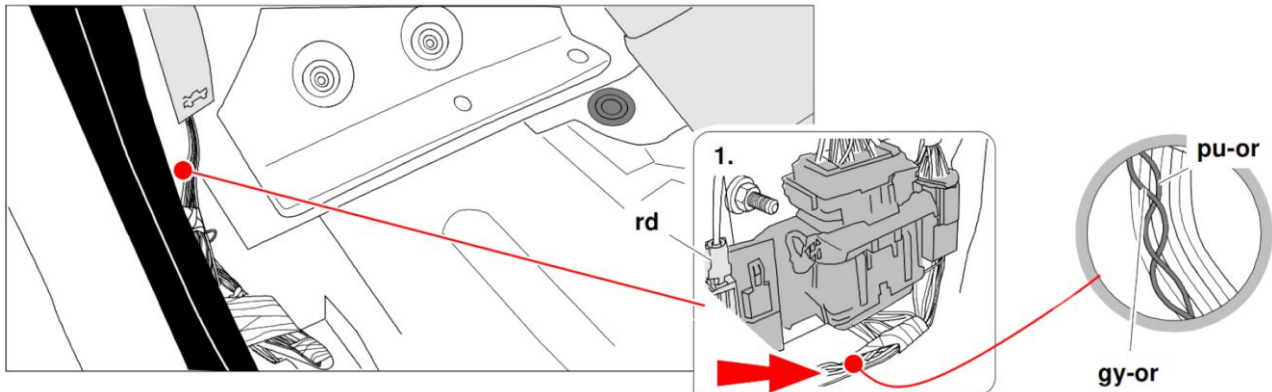
Earth Stud



Installation Instructions



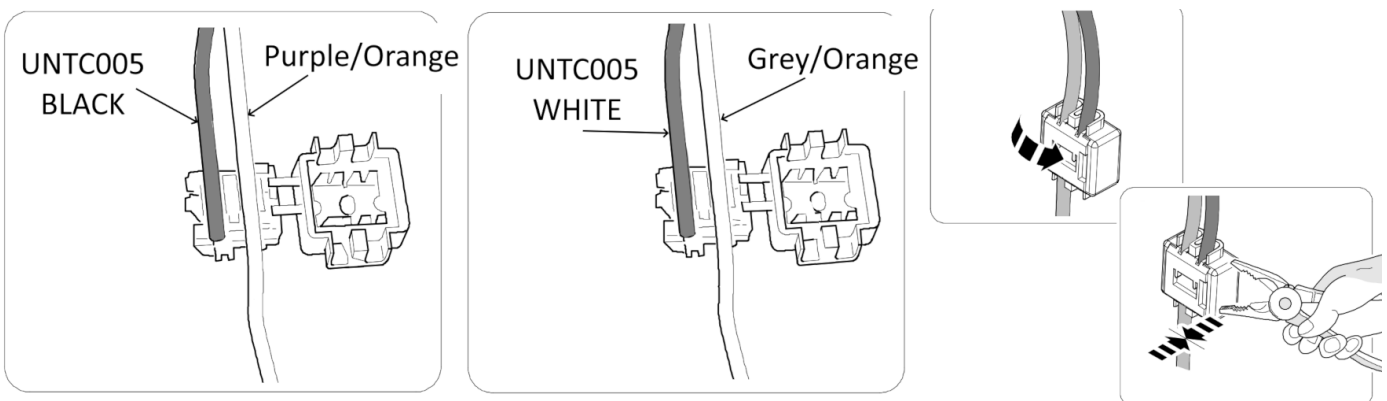
13. On the left hand side of the front passenger footwell locate the vehicle Body Control Module (BCM) Loom. Amongst the bundle of wires locate a twisted pair of wires (Purple/Orange & Grey/Orange).



14. On the UNTC005 harness locate the Black & White Twisted pair of wires.



15. Using the provided scotch locks, connect the UNTC005 Black & White twisted pair of wires with the vehicle twisted pair found in the previous step (Gray/Orange & Purple/Orange). Black to Purple/Orange & White to Grey/Orange



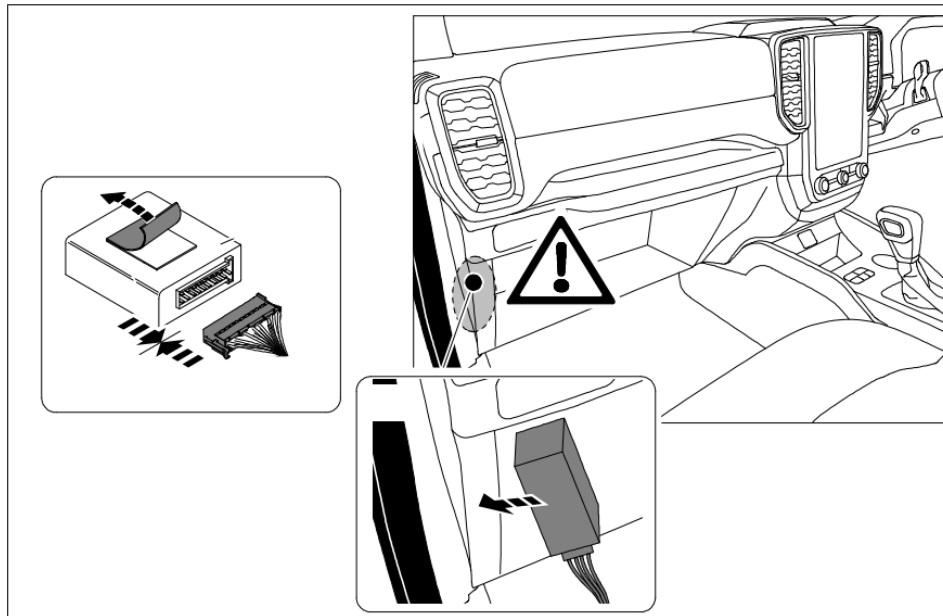
NOTE: Ensure the wires make a good connection. In case the lights don't work during final testing, checking these connections will be the first port of call during trouble shooting.

Although scotch locks can be used, it is suggested to splice the wires with solder to ensure a good & secure connection. Use electrical tape to adequately tape up any exposed copper wires.

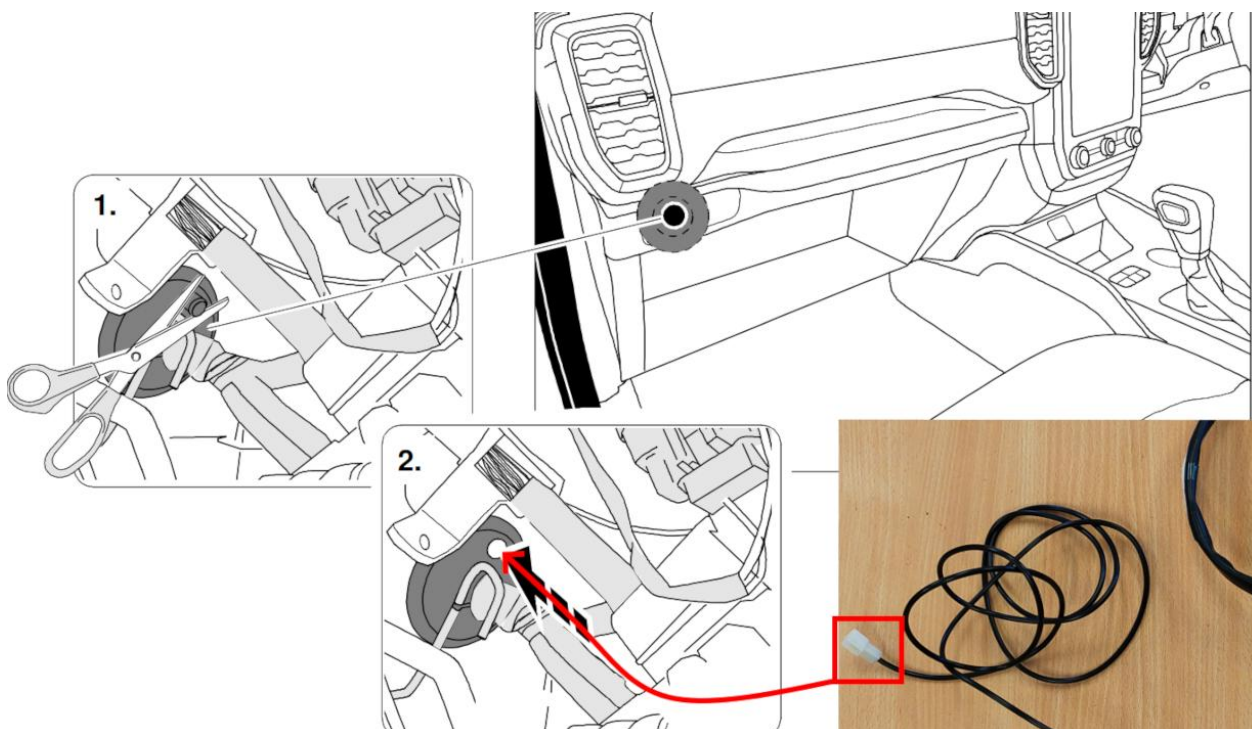
Installation Instructions



16. Staying on the left hand side of the foot well, connect the ECU to its mating connector.
17. Find a suitable area to mount the ECU, clean the area with alcohol wipes (not included).
18. Tape the included double sided foam tape to the back of the ECU then mount the ECU in the previously cleaned area.



19. Still in the footwell on the left hand side on the fire wall, find a grommet which accesses the engine bay.
20. With a pair of scissors or similar, cut the nub off the grommet to form a hole.
21. Feed the harness power wire branch through this hole.



Installation Instructions



22. In the Engine Bay, on the other side of the grommet from the previous step, route the power wire toward the battery. Route this wire in a manner which keeps it away from sharp edges and objects. Also, keep it away (at least 150mm) from sources of heat.
23. Connect the power wire to the included fuse link.
24. Connect the ring terminal of the fuse link to the positive terminal of the battery.
25. Reconnect the Battery negative terminal.
26. Use a trailer or a trailer or a trailer light test board to check the function of the trailer harness.

TROUBLESHOOTING:

- a. Ensure the CAN wires are making a good connection.
- b. Ensure the CAN wires are connected to the correct CAN wires on the vehicle.
- c. Check the fuse.
- d. Check the connection at the battery.
- e. Check the connection at the earthing point.
- f. Check the connections at the 7-Pin socket.

CODING:

Full trailer light functionality with no fault codes is possible without coding. Manual disable of rear parking sensors, lane departure and rear cross traffic is required.

Coding is required if it is desired for the harness to automatically apply "tow mode" (disable of rear parking sensors, lane departure and rear cross traffic alert).

TAG Warranty Statement



SWD warrants your TAG Harness for 12 months (1 year) under the following conditions:

- You can show proof of purchase.
- The harness has been correctly installed by a suitably qualified installer.
- The harness has not been modified or abused in any way and has only been used for the purpose intended.
- The harness was not fitted second hand to your vehicle.

The extent of this warranty includes materials and workmanship used in the manufacture of the harness and is to the equivalent value of current, full replacement cost.

Nothing stated or implied in this warranty limits in any way, the statutory rights that you may have.

To make a claim visit the original installer in the first instance or, if you are unable to or are not satisfied with their help, then contact us direct by phone on 1300 669122 or visit www.swd.com.au.