

T02-00026-5001 Ignition Sense Extension Kit Installation Instructions



The T02-00026-5001 ignition sense extension kit is a companion kit for extending the 30cm ignition sense flying lead of the radio adaptor cable as part of GPS receivers: T02-00025-1002 and T02-00025-1003.


The kit includes a 4m length of wire, an environmentally sealed (heat-shrinkable), in-line butt splice (Molex 19164-0013), a fuse holder, and a fuse (3A).

Once the cable is installed, the vehicle's ignition signal is used to power up and power down the radio so that when the vehicle ignition is turned off, the radio turns off. When the vehicle ignition is turned on, the radio is programmed to either turn on, or to return to the state it was in when the vehicle ignition was turned off.

Radio Hardware Configuration for Ignition Sense

The radio hardware link LK2 (on the top-side of the main board) must be fitted for ignition sense operation.

The following table describes the configuration options:


-  LK2 is fitted by default.

Configuration of hardware links for ignition sense

Link required	Threshold voltages for radio ignition sense
LK2 in (factory default)	Ignition signal $\leq 0.9V$ (or floating) = off Ignition signal $\geq 5V$ = on Ignition-sense compatible with 24V vehicular systems (34V max.)

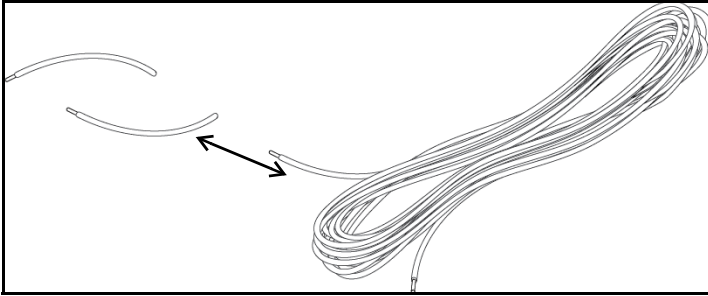
Radio Programming

- 1 **Startup/Shutdown form:** In the 'Power On Mode' field, set how the radio responds when it receives a signal to power on from the vehicle's ignition signal. Select either 'Power On' or 'Previous State'.
- 2 **Programmable I/O form (Digital tab):** Program the AUX GPI3 line to 'Power Sense (Ignition)', and Active to 'High'.

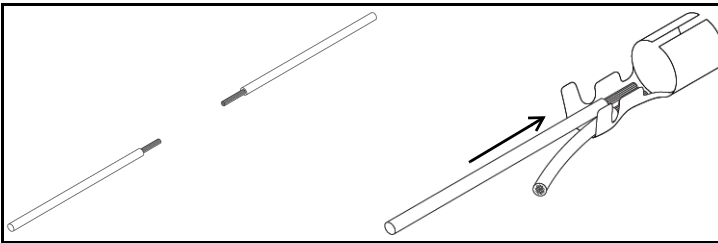
-  Refer to the online help of the programming application for more information.

Installation

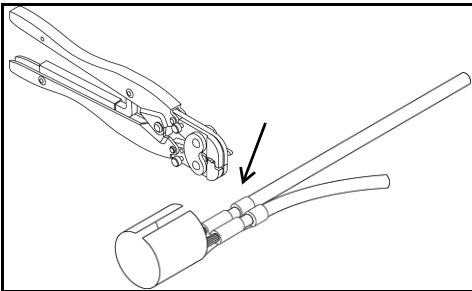
- 1 Cut two 5cm lengths off one end of the 4m length of wire. From one end of both of those 5cm lengths, strip 5mm of the insulation. Set these aside. They will be used as part of the crimping process for the fuse crimp terminals.



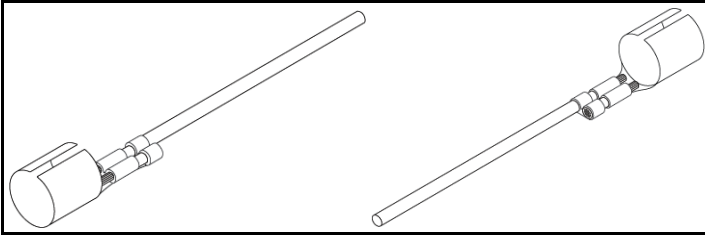
- 2 Cut the 4m wire where the in-line fuse holder will be placed (as close to the ignition/acc signal as possible). Strip 5mm of the insulation off each end of the wire.
- 3 Insert each stripped wire into each of the fuse crimp terminals. Then add one of each of the stripped 5cm lengths (**from Step 1 above**) into each of the crimp terminals. This will increase the overall cross sectional area of the wire and produce a reliable crimp.



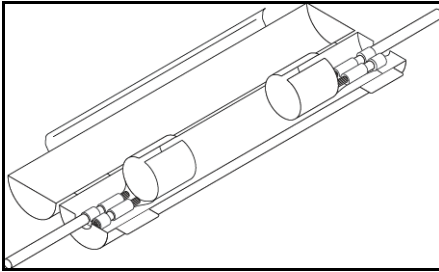
- 4 Using an appropriate crimp tool (such as the Utilux hand tool #102B or #61), crimp each terminal onto the wires.



- 5 Trim the two 5cm wire lengths right back to the crimp terminals.

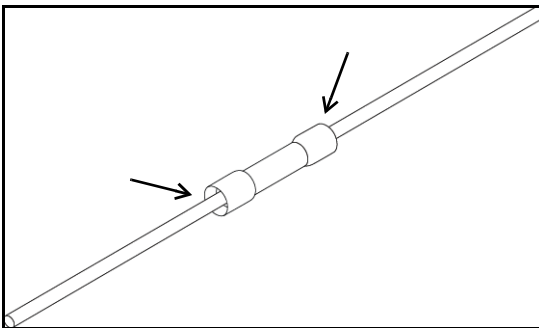


- 6 Push the two crimp terminals into the clear plastic fuse holder.



Notice Do not install the fuse until the installation is ready to be tested.

- 7 Connect the fused end of the ignition sense cable to the 13.8V signal controlled by the vehicle's ignition key.
- 8 Cut the other end of the 4m wire to the length required to connect to the T02-00025-1002 (or T02-00025-1003) adaptor cable ignition sense flying lead. Strip 7mm of the insulation of the wire end. Strip 7mm off the insulation of the adaptor cable flying lead.
- 9 Insert the stripped wires to opposite ends of the insulated butt splice.



- 10 Using an appropriate crimp tool (such as the Molex 64016-0041), crimp both ends of the splice terminal.
- 11 Heat the crimped splice with an appropriate heat gun.

Notice Avoid using excessive heat. The insulation and integrated adhesive lining are designed to melt at just 194°F (90°C).

12 Check the ignition sense feature is working correctly.

More Information

Refer to your radio provider for more information about this product.