



PURE

Highway
300Di

Installation Manual

Safety instructions



Warning

Fit the unit and the antenna in a position that does not obscure the driver's view.

Fit the unit securely.

Do not fit the unit or the antenna in such a way that may interfere with the safe operation of the vehicle, the deployment of air bags or other safety equipment.

Avoid objects or liquids getting into the unit.

Do not remove screws from or open the unit casing.

Do not operate the unit while driving.

Read this manual fully before operating the unit, including all safety notices.



Caution

To reduce the risk of theft, remove the controller from your vehicle, or position it out of sight, before leaving your vehicle unattended.



WARNING

This WARNING symbol is used throughout this manual to indicate a potentially serious risk to your personal safety. Obey all safety notices that accompany this symbol to avoid possible injury or death.

Contents

- 2 Kit list**
- 3 Considerations before starting**
- 4 Installation checklist**
- 6 Wiring diagram**
- 7 Fit cables and connections**
- 8 Installer settings**
- 8 Spare parts**

Kit list

The following items are included in the Highway 300Di kit as standard:


- Highway 300Di Controller
- Highway 300Di Main Unit
- Highway 300Di Controller bracket with captive cable
- Highway 300Di Controller mount with adjustable angle
- Wiring loom with ISO connectors
- USB extension lead
- 2 x 3.5mm to 3.5mm jack audio cable
- Coaxial FM antenna loop through cable
- Self adhesive controller bracket mounting pad
- Owner's manual
- Product registration card

Considerations before starting

Minimum vehicle requirements

- Fitted audio system including aux-in or FM antenna connection.
- Standard 12V power system - not suitable for 24V systems.

Recommended for best result

- Using an antenna which is grounded to the vehicle bodywork will enhance performance.
- Check that the latest version of software is installed. To find out which version your unit has installed: Press the  button, select **Settings > Software update**. Visit <http://support.pure.com> to see if there is a later software version available. Download the file and copy it to a USB stick. For instructions on how to install a software update see page 15 of the Owner's manual.

Antenna positioning

- Read the fitting instructions supplied with the chosen antenna carefully for optimum positioning.
- Take care with antenna positioning if the windscreen has a metallic coating, tinting or heating. Specific antenna instructions may apply.

Main unit positioning

Consider length of the controller cable and USB/aux audio extension and possible routing, whether access is required to unit after fitting and distance from antenna and suitable power connection (avoid using safety critical power circuits such as airbag/ABS system etc).

Controller positioning

- Consider usability and visibility from driving seat, possible mounting points/brackets, cable length and routing to main unit.
- Decide on connection to head unit - aux in or FM and whether FM pass-through is required.

Installation checklist

Before installation

Review car and existing audio installation and discuss options with customer:

- Decide on where to mount the main unit and controller:
 - Check where the existing tuner is fitted (on some cars this may be in the boot) and consider where the Highway main unit might be installed.
 - Check and agree suitable locations for the USB extension cable (recommended for all installs as used for iPod/MP3 player connection and software updates) and optional auxiliary input (3.5 mm) cable.
 - Check for auxiliary inputs on the existing audio system which might be used by Highway
 - Discuss controller placement with the customer - consider cable length to attach to controller box and accessibility and visibility from the drivers seat.
- Decide on which antenna type with the customer:
 - Best – external digital antenna with grounding to vehicle bodywork (e.g. Pure Active Through Glass Antenna).
 - Good – internal digital antenna with grounding to vehicle bodywork (e.g. Pure Active Film Antenna).
 - Alternative – other antenna – magnetic roof mounted mast or factory fitted digital antenna.

- Check that the supplied antenna cable will reach or use a suitable antenna extension (2.5m cable available from Pure).
- Discuss controller placement with the customer - consider cable length to attach to controller box and accessibility and visibility from the drivers seat.

During installation

- Make sure the USB extension is installed in a convenient location.
- Make sure the 3.5mm auxiliary input cable is installed in a convenient location.
- Adjust the FM transmit frequency if required (In Australia this should be set to 88.6 MHz) see page 16 of the Owner's manual.

After installation

- Check that Highway is functioning as expected.
- Once correct function of all connections has been checked, fasten connectors to main unit with cable ties as required and securely mount the main unit in place.
- Route and tie any cables securely in place and replace any trim panels.
- Select Restore defaults from the Settings menu to reset any changes made during testing. (See page 15 of the Owner's manual).
- Update the software installed, if required, see page 3.

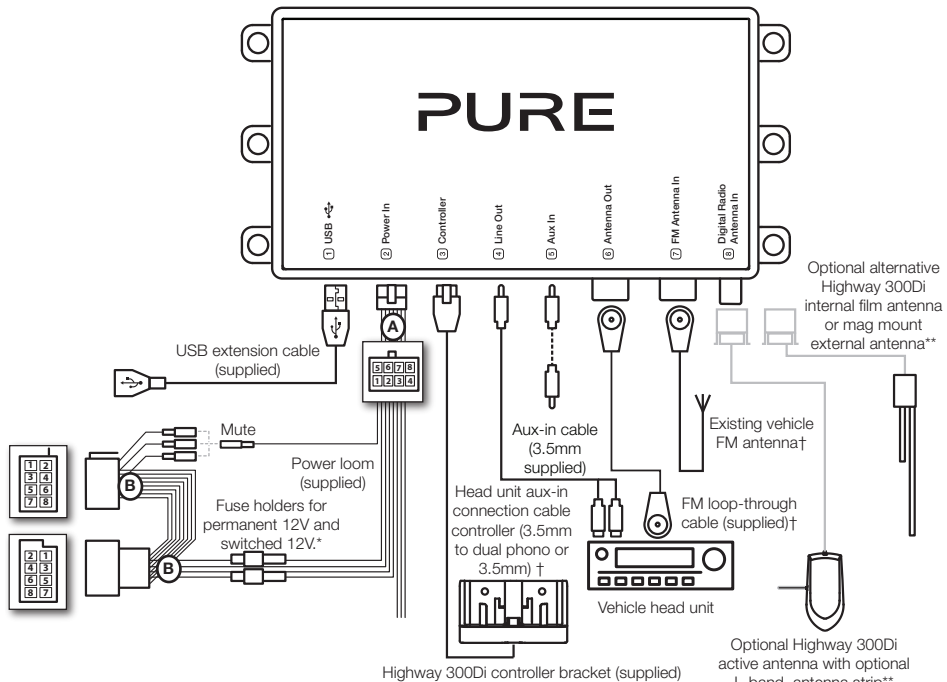
Hand over to the owner

- Give them the kit (Packaging, Owner's manual, Registration card)
- Explain which installation method has been used and why.
- Demo main functions including - Selecting digital stations, changing FM frequency used, connecting and iPod/USB device/aux in.

Wiring diagram

A Highway 300Di power connector pins		
Pin	Function	Colour
1	Nav_Tel_Audio+	Purple
2	Nav_Phone_Mute	Grey
3	Cabin illumination	Brown
4	12V Permanent battery supply (with series fuse holder)	Red
5	Nav_Tel_Audio_GND	Pink
6	12V Switched ignition (with series fuse holder)	Orange
7	Car mute (with crimp)	Yellow
8	Ground	Black

B ISO connector pins		
Pin	Function	Colour
1	Mute 1 (with crimp)	White
2	Mute 2 (with crimp)	Yellow
3	Mute 3 (with crimp)	Blue
4	12V Switched ignition (with series fuse holder)*	Orange
5	Not used	Green
6	Cabin illumination	Brown
7	12V Permanent battery supply (with series fuse holder)*	Red
8	Ground	Black



* On some vehicles switched and permanent live connections may be reversed. Open the fuse holders and swap the connectors if required.

** Highway 300Di only supports approved Pure 5V antennas. Standard 12V automotive digital antennas will not work on Highway 300Di.

† If connected to car stereo aux-in then FM antenna connections to Highway 300Di are not required.

Fit cables and connections

1. Fit USB extension and aux in cables

Route the USB extension (used for MP3/iPod connection) and aux-in cable from e.g. the glove box, to where you will fit the main unit, as required. Note that even if this cable is not required for use with music devices, it is recommended that it is installed to enable easy access to the USB socket for software updates.

2. Fit connections to the head unit

Slide out the head unit and connect aux-in cable from Highway or connect the FM pass-through cable and reroute the existing FM antenna cable and the pass through cable to where you will fit the main unit. Antenna adapters (Fakra/ISO/DIN) or extensions may be required.

Note: If the Line out connection on Highway is used the FM transmit/pass through is disabled.

3. Connect the power loom

Connect the supplied loom to the vehicle's system ensuring the Highway 300Di power connector is positioned where you will fit the main unit.

Note: The supplied loom provides a permanent live and ignition controlled live feed to Highway but also offers other connections that may not be required. Ensure any unused wires are safely taped up and securely tied.

4. Mount the controller

1. Run the cable for the controller from where you will fit the main unit to the desired mounting position e.g. on the dashboard and mount the bracket as required - either using the supplied sticky pad, swivel bracket or third party mounting bracket.
2. Once secure - click the controller onto the controller bracket making sure it is securely mounted.

5. Connect all cables to the main unit






1. Connect all cables to the main unit and trial fit it in place.
2. Slide the head unit back into place.

6. Check operation/setup

1. As soon as the power is connected, Highway 300Di will switch on automatically, once it has started up it will ask you to select a language.
2. Turn the **Select** knob to browse and press the knob to choose your preferred language.
3. An autotune will be performed to scan for digital stations and Highway will tune to a digital station when complete.
4. Switch on the head unit and select the aux-in source or FM radio depending on fitting method.
5. Check all sources/connections work.

Installer settings

Installer settings are provided to enable the initial setup, to prevent unintentional changing, these appear in a hidden menu. To access the installer settings:

1. Press , , , ,  in quick succession.
2. Turn the **Select** knob to browse through the following options and press the **Select** knob to choose one.

Antenna input source

Choose the required source depending on the type of antenna you are using:

- Connector 8 (powered)** Choose this if using the external active antenna or the internal film antenna .
- Connector 8 (unpowered)** Choose this if using the mag-mount antenna.
- Connector 7** Choose this if using an existing car antenna.

Note: Unless the existing car antenna is specifically designed for digital radio reception, performance is likely to be very poor to unusable.

Autotune

Performs a scan for digital stations as per initial start-up.

Spare parts

Spares and accessories are available for Highway 300Di. To order a spare part or accessory from the UK, please e-mail: pure.tradesales@pure.com. To order a spare part or accessory from Australia, please e-mail: sales.au@pure.com.

FM pass-through

Choose from two FM pass-through connection options:

- Disabled** Highway 300Di output effectively replaces all FM stations when Highway is switched on (Default).
- Enabled** Highway 300Di output is blended in to the FM waveband, alongside normal broadcast FM stations.

Software upgrade

Use this option to update Highway 300Di's software if you have an update available and loaded on a USB stick. See the Owner's manual for more details.

Factory reset

Use this option to reset all settings including the installed settings above to defaults.

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