

## 29 Series Steering Controls

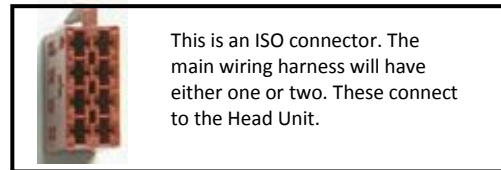
### Component List

Component Number	Component	Description
1	Wiring Harness	This is the main body of setup. The smaller black clip connects to the controller interface (2).
2	Controller interface	A small black box that connects into the head unit (Car stereo) via the patch lead (3) and is connected to the main harness (1).
3	Patch lead	Either a model specific or universal lead with either a 3.5mm audio Jack or a Bullet connector on one end and a small black connector on the other. If using a universal lead refer to the instructions to ensure the black connector is wired correctly for your specific Stereo system.

### Installation diagram

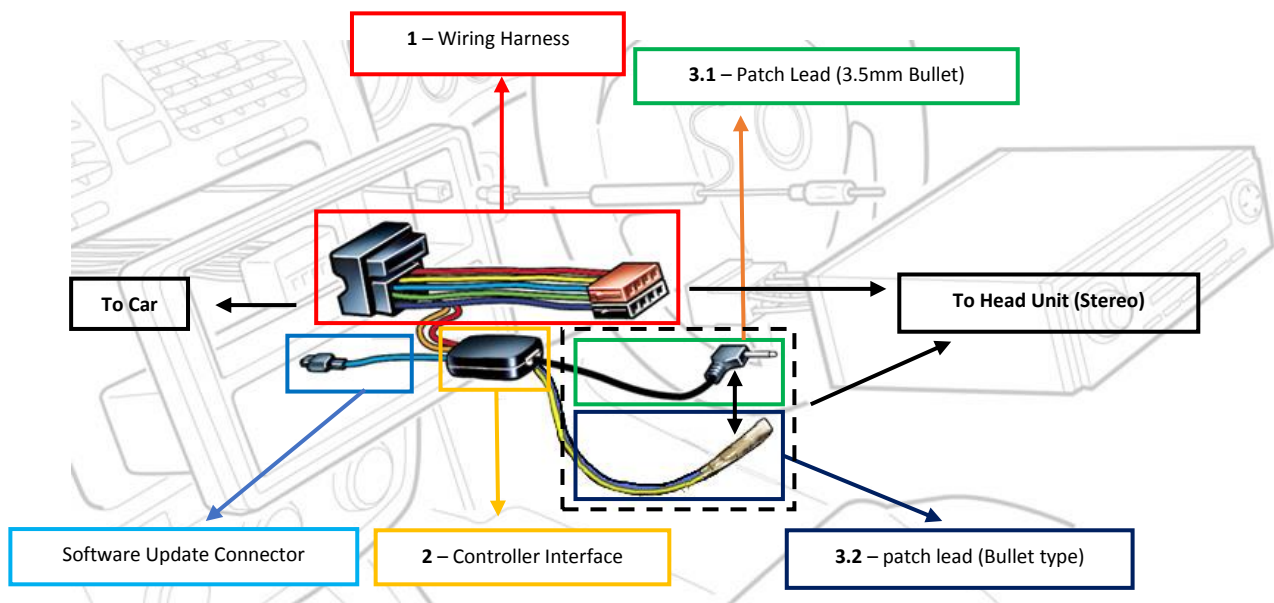
Below is a diagram of the setup. Depending on your vehicle the main **Wiring Harness** may vary. However, they consist of multiple key parts:

- Plug to connect to the car.
- Plug/plugs to connect to the head unit (ISO Connector/Connectors).
- Plug to connect to the controller Interface (16 pin connector).
- Software Update Connector (not present on all models).
- Ring earth connector (not present on all models).



This is an ISO connector. The main wiring harness will have either one or two. These connect to the Head Unit.

Some setups will have a 4-pin software update connector branching from the plug attached to the controller interface, **this does not need to be plugged into anything for the installation**, this is only used to update the controller. The type of plug on your patch lead will depend on the make of stereo that is being fitted. **JVC** and **KENWOOD** units use a bullet type connector (3.2), whereas other units typically use a 3.5mm Jack (3.1). The Bullet type connectors will connect to a similar connector on the Head Unit on the end of a blue and yellow cable. **You need either a Bullet connector or a 3.5mm Jack but not both.**



### Installation Instructions

1. Ensure the Head Unit is removed from the car ensuring easy access to the plug sockets on the rear of the unit.
2. Make sure the ignition supply to the car is turned **off**.
3. Assemble your patch lead if your using a universal patch lead with either a 3.5mm Jack or Bullet connector (see universal patch lead instructions on how to do this).
4. **Connect the supplied patch lead to the controller interface before connecting anything else.** Then connect either 3.5mm jack or bullet connector to the Head Unit.
5. If the wiring harness has a separate wire with a ring terminal, connect this to the chassis ground.
6. Connect the ISO connector/connectors to the Head Unit. Then connect the remaining plugs to the car (typically the larger connector/connectors). There should be no remaining connectors **unless you have a Software Update Controller**.
7. Test the unit fully, ensuring all steering wheel controls function properly before fitting the new Head Unit into the car.

### Troubleshooting

- Check that correct adapter has been used and links are in the correct place (Always disconnect from the power supply if you change the lead).
- Check that the Red wire in the main harness is a 12V ignition and not Permanent power.
- Check that head-unit is earthed and the black wire is earth

If the problem persists, go online to our website for more technical help.