

# 39-VOL-UNI Volvo CAN SWC

Volvo XC90 CANbus steering control interfaces

InCarTec



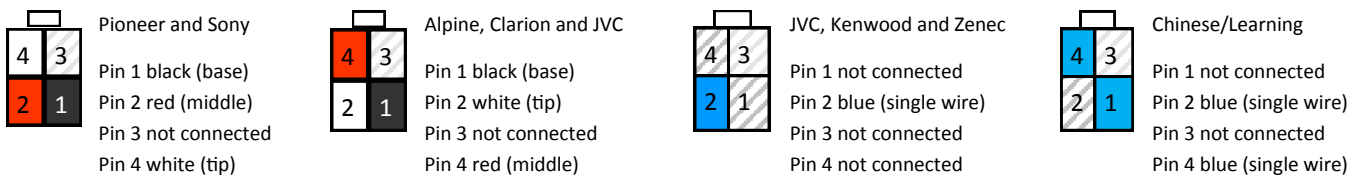
39-VOL-UNI CANbus steering wheel control interface retains the use of the audio steering wheel controls and also provides CAN ignition, reverse gear, illumination, parking brake and speed pulse output signals.

This interface needs to be hard wired into the car. It is recommended that it is installed using our CAN link lead adapter and amplifier bypass harness.



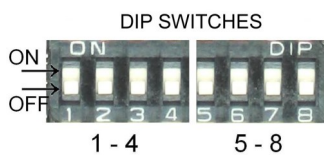
**Before removing the original head unit the battery needs to be disconnected. Failure to disconnect the battery will cause warning lights on the dashboard that will need to be reset by a Volvo dealership.**

## Set up the patch lead



The 4 pin patch lead connector diagrams above are viewed from the wire entry side of the connector.

## Set the switches



The switches on the interface need to be set according to the brand of radio and vehicle model. Open the black box and set the switches.

See the tables below for the switch settings. Switches 1-4 relate to the brand of head unit and switched 5-8 relate to the model of car.

Switch	1	2	3	4
Alpine	Off	On	Off	Off
Kenwood	On	On	Off	Off
JVC	Off	Off	On	Off
Clarion	Off	On	On	Off
Zenec	Off	Off	Off	On
Sony	On	Off	On	On
Pioneer	Off	On	On	On
Chinese/learning	On	Off	Off	On

5	6	7	8	Vehicle model
On	Off	Off	Off	All models

LED STATUS



**Green—CAN active**

**Yellow— Ignition output active**

When connected the green light will indicate that the interface is recognising the vehicles CANbus, and the yellow light will indicate the interface is giving out an ignition power supply.

If the green light is not on check the CANbus connections and switch settings.

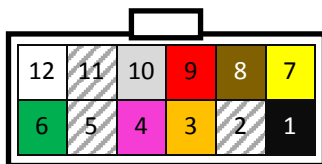
**Volvo XC90 CANbus wiring.**

Volvo XC90 cars have two pairs of CANbus wires on the back of the original head unit, these need to be connected together when the original head unit is removed. Our CANbus link lead adapter does this while also providing connections for the steering control interface and parking sensor retention interface. If you are not using the link lead, identify the two pairs of CANbus wires (twisted green and white wires in a green 10 way connector) and connect the two green wires together and the two white wires together.

Connect the interface to the head unit and vehicle using the pin out information below.

CAN high in the car is white, CAN low in the car is green, they can be found in the 10 pin green connector in the car. These match the CAN high and low wires colours on the interface.

**12 pin connector on 39-VOL-UNI interface**



- 1 Connect to ground
- 2 Not connected
- 3 Illumination output
- 4 Reverse gear output
- 5 Not connected
- 6 CAN low
- 7 +12V permanent power
- 8 Handbrake output
- 9 Ignition output
- 10 Speed pulse output
- 11 Not connected
- 12 CAN high