



Quality – Innovation - Reliability

V A 8 I S O
Handbrake
Alert
Installation
Instructions



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INTRODUCTION

The Scorpion Automotive Handbrake Alert is an electronic safety device which gives a clear spoken audible warning of a disengaged handbrake - if the driver vacates the vehicle and has not engaged the handbrake. Installation is simplified by utilising the vehicles existing audio system without effecting the normal operation of the audio system. Other features incorporated into the Handbrake Alert is the option for a "lights on" warning and also if the vehicle has or is going to have fitted a cellular phone car kit then the audio of the cellular phone can be vastly improved by connecting to the optional cellular input of the Handbrake Alert.

Package Contents:

- 1 x Handbrake Alert Control Unit
- 1 x Audio Connection Harness
- 1 x Power/Signal Connection Harness
- 1 x Diode (Necessary on some installations)

General Installation:

Remove the vehicle audio system and situate the Handbrake Alert Control unit in an area rear of the audio system. The Audio harness is connected to the Handbrake Alert and routed to the rear of the audio system. The power/signal harness is connected to the Handbrake alert and the wires routed to their relevant connections.

IMPORTANT:

Ensure that you have the audio system security code (if applicable) before disconnecting any wires.

MAIN CONNECTIONS:

BLACK wire: Connect this to the audio systems negative (ground) supply or a good chassis earth.

RED wire: Connect this to the audio systems Permanent positive supply. *Connection can be made to an alternative positive supply but a 3 Amp fuse must be fitted.*

PURPLE Wire: Connect this to the vehicle handbrake switch which can usually be located to the rear of the handbrake – this wire is negative when the handbrake is applied.

GREEN wire: For negative switched door connect the GREEN/BLACK to the driver door switch and the GREEN to positive supply (with the RED).

& GREEN/BLACK

For positive switched door connect the GREEN to the driver door switch and the GREEN/BLACK to negative supply (with the BLACK).

Sometimes it may be necessary to fit the supplied diode to inhibit feedback from other circuits.

For trouble free operation make connection as near as allowable to the driver door.

Testing Handbrake Alert Warning.

Disengage the handbrake and open the drivers door. "Warning Apply Handbrake" will be heard repeatedly, applying the handbrake will give the message "Thank you Handbrake Applied".

USE THE VOLUME ADJUSTMENT ON THE HANDBRAKE ALERT ADJUST THE VOLUME FOR OPTIMAL PERFORMANCE.

COMPLETION:

If all the test function correctly re-assemble the vehicle – if not consult the troubleshooting guide below before calling Scorpion Technical Support.

TROUBLESHOOTING:

PROBLEM	TRY THIS
System is totally dead	Check positive supply Check negative supply Check handbrake connection Check door connection Check audio connector in properly Check connectors on Handbrake Alert
Audio is heard through rear speakers	Follow AUDIO CONNECTIONS and utilise the BLUE, ORANGE and BROWN wires the silence the vehicle audio system.
No warnings are heard	Check Handbrake Alert volume control Check audio connectors rear of audio system Check connectors on Handbrake Alert
Buzzing or Chattering is coming from the Handbrake Alert	The vehicle door switch is picking up feedback from the vehicle wiring. Fit the Diode as illustrated on the installation diagram
Vehicle Audio System has no sound	Check all connectors If BLUE, ORANGE, BROWN wires are used to cut ignition check that when the Handbrake alert is not activated that there is a ignition feed to the audio system
Cellular Phone is not working	Check installation of phone kit Check 3.5mm audio connection Check phone kit mute output is negative when in use.

OPTIONAL CONNECTIONS:

“Lights On” Warning message.

The handbrake Alert can give an audible warning if the vehicle lights are left on and the driver vacates the vehicle. To facilitate this option connect the following wire:

WHITE wire: Locate the vehicles lighting wire that becomes positive when the Lights are switched on – connect the white wire to this.

Cellular Phone Kit Audio.

The handbrake Alert has the option to send the audio from a cellular phone kit through the vehicle speakers which can greatly improve the clarity of the phone audio. To facilitate this option make the following connections:

YELLOW wire: Connect this to the mute wire that if found on the cellular car kit.

Cellular phone audio input:

This is a 3.5mm audio connection and should be used to connect to the audio of the cellular phone kit. The usual speaker that is supplied with the cellular car kit is not used – instead connection is made to the Handbrake Alert using a 3.5mm audio lead which can be obtained from most good audio or computer shops or from Scorpion Automotive. Connect this 3.5mm audio lead into the speaker audio connection of the cellular phone kit and the cellular phone kit audio input of the Handbrake Alert.

Testing “Lights On” Warning.

Switch the vehicle lights on and open the drivers door. “Warning Lights Are On” will be heard.

Testing Cellular Phone Audio.

On making or receiving a call from the phone in the cellular phone kit the vehicle audio will silence (if the audio is on) and the caller can be heard through the vehicles front speakers. Volume for the cellular phone is usually adjusted through a volume adjustment on the phone.

AUDIO CONNECTIONS:

The audio connection harness is fitted with ISO type connectors; these should match the audio connector found on the rear of the vehicle audio system.

Connect the audio harness into the rear of the vehicle audio system and the vehicle audio harness.

In operation the Handbrake Alert interrupts the vehicle audio system and utilises the vehicle front speaker to apply the warning message, some vehicles may be fitted with rear speakers or an ancillary amplifier, in these situations it will be necessary to silence them as they will continue to play audio and the warning message will not be heard.

Using the wires provided on the Handbrake Alert follow the methods illustrated below to silence any audio from the rear speakers.

Method 1:

Locate the ignition feed at the rear of the vehicle audio system – cut this wire and connect the following Handbrake Alert wires:

BLUE wire: Connect to one end of the cut ignition wire.

ORANGE wire: Connect to the other end of the cut ignition wire.

BROWN wire: Do not use – isolate with insulating tape.

By interrupting the audio system ignition feed it simulates the ignition being turned off when the Handbrake Alert activates thus silencing the audio system.

Method 2:

Modern audio systems have a mute input facility, this is activated by applying a negative signal to one of the connections on the rear of the audio system, if this facility is available and can be found on the rear of the audio system connect the following Handbrake Alert wires:

BLUE wire: Connect to a negative (ground) supply.

ORANGE wire: Do not use – isolate with insulating tape.

BROWN wire: Connect to the mute facility on the audio system.

INSTALLATION DIAGRAM:

