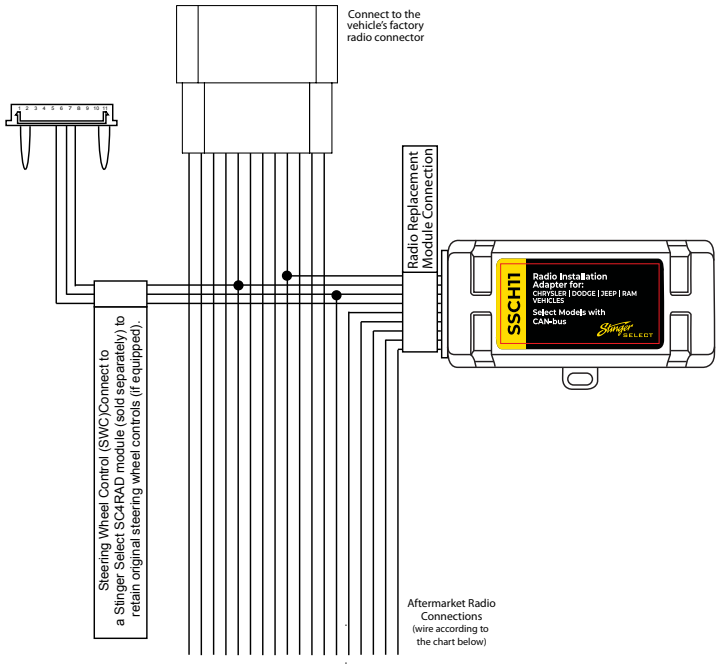
SSCH11

Radio Installation Smart Harness for Select 2004+
LSFT & MSCAN Chrysler / Dodge / Jeep Vehicles

Introduction & Features

The SSCH11 is an essential installation accessory for select 2004+ Chrysler / Dodge / Jeep vehicles with LSFT & MSCAN databus radios. Using this interface will enable factory features such as data bus driven vehicle speed signal (VSS) output (lets the radio know how fast the vehicle is traveling so that navigation times are more accurate), illumination output (dims the radios display when the lights are turned on), reverse output (lets the radio know when the vehicle is placed into reverse so that it can display the reverse camera (if equipped)), parking brake output (lets the radio know when the parking brake is applied to unlock safety features) and retained accessory power (RAP). RAP keeps the radio powered after the key has been turned off, until the door is opened, just like the factory system. Along with those features the SSCH11 will send the proper data commands to turn on the factory amplifier.

Illustration / Schematic



Wiring Connections

SSCH11 Wire Color	Radio Connection	Description
Yellow	Yellow	Constant Power (Memory)
Black	Black	Ground
Red	Red	Accessory Power (Key Switched)
Blue / White	Blue / White	Remote Amplifier Turn On (connect even if no amplifier is present)
White	White	Front Left Speaker Positive (+)
White / Black	White / Black	Front Left Speaker Negative (-)
Gray	Gray	Front Right Speaker Positive (+)
Gray / Black	Gray / Black	Front Right Speaker Negative (-)
Green	Green	Rear Left Speaker Positive (+)
Green / Black	Green / Black	Rear Left Speaker Negative (-)
Purple	Purple	Rear Right Speaker Positive (+)
Purple / Black	Purple / Black	Rear Right Speaker Negative (-)
Orange / White	Orange or Orange / White	Illumination
Green	Purple / White*	Reverse Signal
Purple / White	Pink*	Vehicle Speed Signal (VSS)
Red / White	Light Green*	Parking Brake Signal

* Your specific aftermarket radio may not have this wire or the wire may be a different color that what is listed. Please check the manual that comes with your aftermarket radio to verify color and availability.

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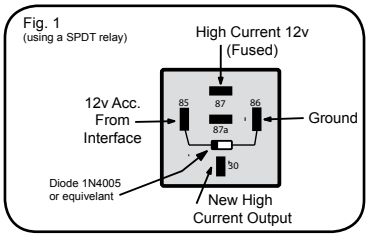
Installation

1. Only one of the two provided radio harnesses will be used. Remove the factory installed radio to test fit and determine the correct harness for your particular vehicle.
2. **Vehicles without a factory amplifier:** Connect the aftermarket radio's front and rear speaker wires to the 22 pin plug
3. **Vehicles with a factory amplifier:** The factory amplifier only accepts two audio channels (left and right). The amplifier's fading is controlled by data communication from the factory radio. The aftermarket radio does not have the ability to control the amplifier's fader. Connect the ***front outputs of the aftermarket radio*** to the ***rear inputs of the 22 pin radio connector***. This will allow navigation voice prompts and Bluetooth calls to be heard since most aftermarket radios play the navigation and bluetooth audio out of only the front speaker outputs. The rear speaker outputs of the aftermarket radio are not used.
4. The accessory output wire is located on the 11 pin RADIO REPLACEMENT harness - connect this wire to the radio's accessory wire. The accessory wire supplies +12v, 1 amp max when key is in the accessory or ignition position. This is sufficient for most installations unless multiple devices (reverse camera, overhead monitor etc.) are using this same accessory output wire. (fig. 1: If more current is needed).
5. **11 pin plug (to RADIO REPLACEMENT MODULE):**
   - Blue/White - Connect this wire to the radio's amplifier remote output. Connect this wire with or without OEM amp present! This connection is VERY IMPORTANT! Some of the SSCH11 features will not function if this wire is not connected!
   - Green - Connect this wire to the radio's reverse input wire only.
   - Orange/White - Connect this wire to the radio's Illumination input wire only.
   - Violet/White - Connect this wire to the radio's VSS input wire only.
   - Red/White - Connect this wire to the radio's parking brake input wire only.

   Note: Do not connect these wires to any circuit other than the radio's wire harness.



6. **11 pin plug (to SWC INTERFACE):**
   - This is a quick connection to a radio specific SWC interface. No additional connections are necessary other than radio control connections. Plug the radio specific SWC interface in to this connector and program the radio specific SWC interface for version 2. Do not cut the loops. Refer to the SWC interface instruction manual for the radio specific control function programming order.

Using the VES and Reverse Camera (if equipped)

Vehicles equipped with a DVD player built into the rear screen assembly:
The SSCH11 will allow the VES DVD player and rear screen to function as if the factory radio were present. A/V will be passed from the factory DVD player to the rear screen and audio can be heard through the headphones. A/V cannot be passed from the factory DVD player to the aftermarket head unit.

Vehicles equipped with a stand alone VES DVD Player:
The SSCH11 will allow the VES DVD player and rear screen(s) to function as if the factory radio were present. A/V will be passed from the factory DVD player to the rear screen(s) and audio can be heard through the factory headphones. A/V can also be fed from the VES DVD player into an aftermarket head unit (head unit must support A/V in) with the use of the PAC PN: CHYRVD (sold separately). **It is VERY IMPORTANT that the SSCH11 Blue/White remote input wire be connected for this feature to function properly!**

Vehicles not equipped with a VES DVD Player (rear screen(s) only):
The SSCH11 must be used in order to feed A/V into the factory screen(s) from an aftermarket head unit (head unit must support A/V out). With the PAC PN: CHYRVD (sold separately), A/V will be passed from the aftermarket head unit to the rear screen(s) and audio can be heard through the headphones.

Vehicles equipped with a Reverse Camera:
In order to retain the factory reverse camera the PAC PN: CHYRVD (sold separately) must be used to feed video into the aftermarket head unit (head unit must support reverse camera input).

Testing & verification

1. Turn the ignition on. The LED on the interface will turn on and the +12v accessory wire will turn on.
2. Turn on the radio and check balance & fade.
3. Turn off vehicle and remove key. RAP will be active and keep the radio on for 10 minutes or until the drivers door is opened.
4. The LED and radio will turn off when RAP turns off or the driver's door is opened.