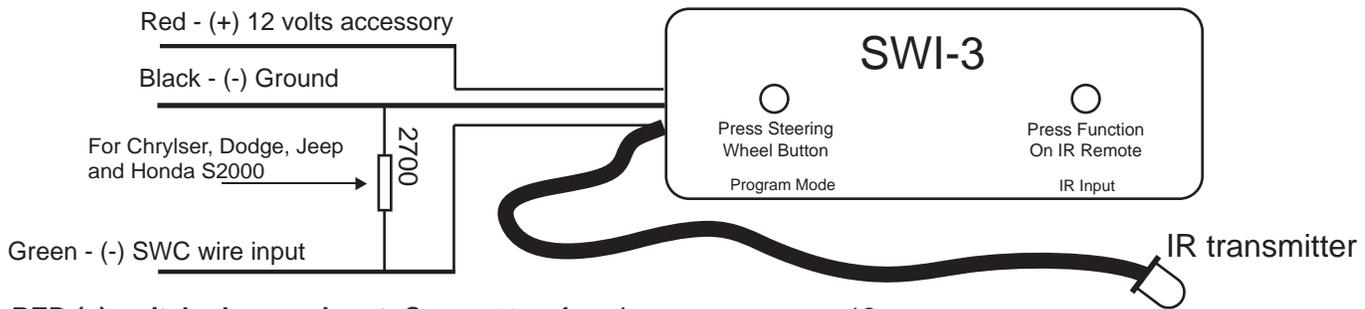


Steering Wheel Radio Control Interface Installation instructions.

- Ford and Lincoln/ Mercury vehicles Continental, Crown Victoria, Explorer, Mountaineer, Town Car, Grand Marquis 1998 & up and Navigator 1999 and up with 4 function radio controls. (Rear seat controls will also require an SWI-7)
- Acura, Honda, Mazda, Range Rover, Nissan (except Quest 1993-1995, use SWI-6), and Harley Davidson all years
- Chrysler/ Dodge and Jeep 1999 and newer
- Cadillac Catera 1998-2201
- Saab model 93 1998

The Steering Wheel Interface (SWI) will control most aftermarket head units with an infrared remote by still utilizing the factory steering wheel radio control buttons. The SWI has non-volatile memory which can store from between 1 to 17 functions from the steering wheel and wireless remote. *The SWI interfaces will only work with infrared remotes that use a 40kHz carrier frequency. Consult with equipment manufacture to determine the carrier frequency.

WIRING DIAGRAM



RED (+) switched power input: Connect to a fused source accessory 12v.

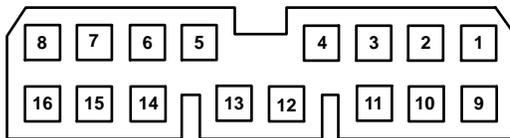
BLACK (-) chassis ground input: Connect this to the vehicle chassis.

GREEN (-) SWC input: Connect this to the steering wheel button control wire. This input needs to see negative voltage with different value resistance inline on each button on the steering wheel. **DO NOT** connect directly to 12v.

IMPORTANT!

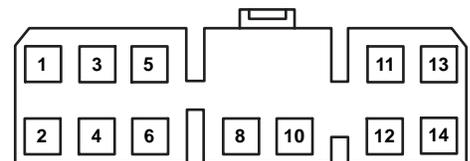
How to verify input control wire from steering wheel: The correct wire can be verified by connecting an ohm meter to the suspected wire (-) and to vehicle ground (-). The meter should read greater than 2700 ohms with no buttons pressed. When you press each button on the steering wheel, each button should read a different resistance. All buttons need to be less than 2400 ohms. Chrysler, Dodge, Jeep and Honda S2000 vehicles will need the 2700 ohm resistor (included) put across the green and black wire of the SWI-3. Other vehicles may also require the 2700 ohm resistor.

Steering wheel button control wire



Acura/Honda 1986-97:

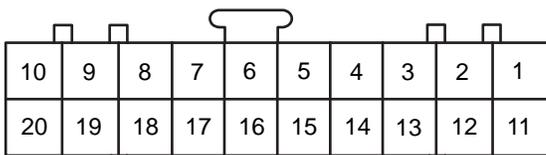
Connect SWI to pin# 12, Wht/Blu wire



Mazda:

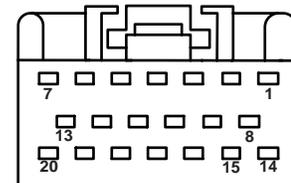
Connect SWI to pin# 8

**Front view of plugs
removed from the back of radio**



Acura/Honda 1998 and up:

Connect SWI to pin# 3



Ford 1998 and up:

Connect SWI to pin# 15 or #14
Lt. Blu/Red wire

Nissan Quest 1999-2000:

Connect SWI to pin# 14 wht/blk wire

Chrysler, Dodge and Jeep Vehicles: You must intercept the SWC wire at the steering column and NOT at the radio harness plug. Remove the steering wheel column cover around the ignition key cylinder and locate wire in white plug.

• **1999-2001 Grand Cherokee: red/yel wire.** • **2000 Prowler: red/blue wire.** • **1999-2000 Ram/Dakota/Durango: red/blk wire.** • **1999 Town & Country: red/blk wire.** • * **2001 Ram/Durango/Caravan: gry/wht wire.**

IMPORTANT! You must cut the wire in steering wheel column and attach green wire of the SWI to the wire coming from the white plug. Verify you have the correct wire. Then connect the 2700 ohm resistor across the green and black wires of the SWI. The remaining wire in steering wheel column is not used and should be insulated.

* **2001:** You will need to replace the 270 ohm resistor inside of the SWI-3. **Ram, Durango:** replace with a 2000 ohm resistor. **Caravan:** replace with 1700 ohm resistor. You will not need to use the 2700 ohm resistor across the green and black wires.

Range Rover: Locate 2 wires from steering wheel control buttons that plugged into factory radio. Normally they are gray/red & gray/black. Connect the gray/black to ground and the gray/red to the green wire of the SWI-3. Connect the 2700 ohm resistor across the green and black wires of the **SWI-3.**

Nissan (excluding Quest 1999-2000) and Harley Davison: These have a separate wire for each button and do not have a resistor inline. Follow instructions that came with resistor kit (included). **2000-01 Xterra:** Separate plug, yel/red and yel/blk. Ground yel/blk and connect yel/red to green wire of SWI-3.

Saab 93: Tap green wire of the SWI-3 into yel/blk wire in 22 pin connector of the SID display module.

Programming

Do not mount the IR LED at this time. Wait until the SWI-3 is programmed and operation is verified.

Programming the SWI-3 to control the new aftermarket head unit: After terminating the red, black and green wires the interface is ready to be programmed. First, check that the IR remote for the new head unit works properly. If the remote does not properly control the head unit, the interface cannot be programmed. Weak batteries in the remote may cause programming errors, even if the remote seems to operate properly.

- 1) Turn on the ignition to supply power to the SWI-3.
- 2) Use a pen to depress the "program mode" button. Remove pen when left LED light comes on.
- 3) Within 10 seconds press and hold one of the steering wheel function buttons. Continue to hold steering wheel button until the left LED turns off. Release the steering wheel button and the right LED turns on.
- 4) Place the stereo's IR remote within 3" of the "IR Input" port on the side of the SWI-3 next to the program button. Press and hold the remote's button that corresponds to the steering wheel button that was pressed. Continue to hold the remote's button until the right LED turns off. Release the button and the left LED will turn on.
- 5) Repeat steps 3 and 4 until all radio steering wheel functions are programmed.
- 6) When programming is complete, wait 10 seconds and both LED's will flash 3 times. This indicates an automatic program exit. Do not stop more than 10 seconds while programming or there will be an automatic program exit and you will have to start over at step number 2 above. Turning off ignition before the automatic exit will require starting over at step 2 above. The SWI-3 can be reprogrammed unlimited times.

Testing

- Test the SWI-3 by holding it's infrared LED (LED on the end of 4' lead) close to the stereo and verify that it works properly. Experiment with various locations for the LED. You should be able to find a hidden and convenient mounting location. Try along the top front and /or bottom of the stereo as well as it's sides. The LED can be replaced with most any IR LED, like Radio Shack's # 276-143. The longest lead of the LED connects to the red wire of the 4' cable and the short lead of the LED connects to the black wire of the 4' cable.

Troubleshooting: If the SWI-3 does not work properly try the following things:

- If the SWI-3 seems to be continuously sending out a command without pressing any buttons. Reprogram and be sure that the steering wheel buttons are held down until the red LED turns off on the SWI-3.
- If the SWI-3 only works with some of the buttons on Chrysler, Dodge, Jeep and other cars, try to use a 3k or 3.3k resistor in place of the 2.7k resistor that was supplied.