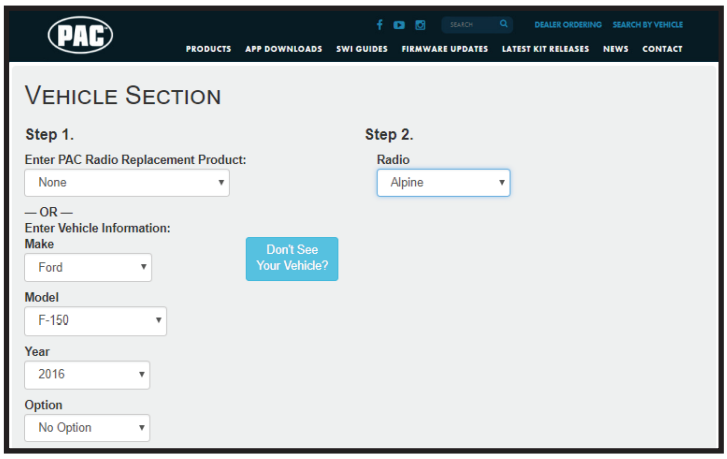
SWI-RC-1
Steering Wheel Control Interface

Quick Start Guide

Simple, clear, and specific installation information is provided through the SWI-RC-1 Web APP!

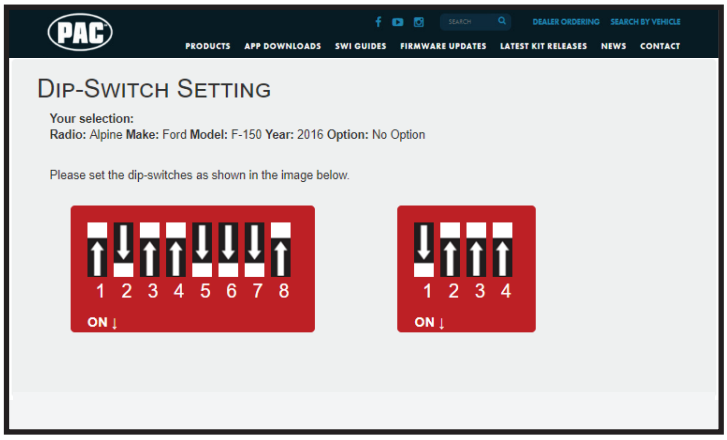
Step 1:

Go to: *pac-audio.com/swi-rc-1* on your PC or mobile device and select your device, vehicle, and radio.



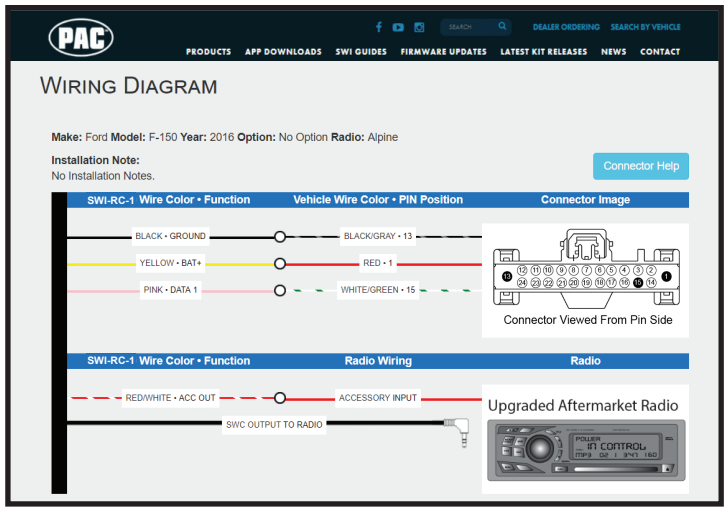
Step 2:

Set the DIP switches



Step 3:

Wire up the module according to the diagram



You're finished!!

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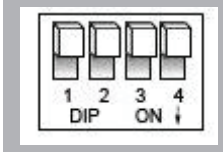
Manual Programming

With this method the SWC values must be manually programmed into the SWI-RC-1 by using the programming button. The vehicle dipswitches on the side of the interface must all be set to the up (off) position. The radio dipswitches must be set to the proper radio configuration (see below). **PLEASE NOTE: This mode is only compatible in vehicles with both analog SWC and a discrete 12v Accessory wire. Vehicles with CAN-Bus buttons cannot be manually programmed.**

1. Set the radio dipswitches according to the chart below.
2. Wire up the interface according to the installation instructions in the application.
3. Connect the SWI-RC-1 to the vehicle.
4. You can now follow the programming instructions below.



Set DIP switches that correspond with your radio to the ON position.
Set all other DIP switches to the OFF position.

DIPSWITCH ON = DOWN

Alpine	JVC	Kenwood / Lightning Audio	Clarion / Nakamichi	2-Wire Resistive	Pioneer / Other*	Sony	Fusion
1	2	1 & 2	3	2 & 3	1, 2, & 3	4	1 & 4

***Other - Dual / Axxera (these brands could also have 2-wire resistive), Jensen, Rockford Fosgate**

Please read each of the following steps to familiarize yourself with the process before beginning. The interface must be programmed in the specific order shown in the chart below

1. Turn the key to the ignition position. The LED will illuminate red.
2. Press and hold the programming button on the side of the interface until the LED illuminates green. Release the programming button.
3. Within 7 seconds, press the button that is to be learned on the steering wheel. **At this point you have two options:**
   a. **For short press functionality:** Hold the button on the steering wheel until the LED changes from green to red. Release the button.
   b. **For long press functionality:** Continue to hold the button until the LED flashes between red and amber once. Release the button.
4. If you need to program more buttons, repeat step 3 for each additional audio function on the steering wheel.
5. If you come across a function in the chart that your steering wheel does not have, or you do not want to program, press and release the program button on the side of the interface to skip that function. The LED will turn off then back on when the skip has been done successfully.
6. Once programming is completed, wait seven seconds. The LED will flash green 3 times indicating the end of programming.
7. Test the interface for proper functionality. Whenever a SWC button is pressed the LED on the interface should blink green. If any function does not work, repeat the programming steps.

Radio Function Mapping Order

	Alpine	JVC	Kenwood / Lightning Audio	Clarion / Nakamichi	2-Wire Resistive	Pioneer	Other *	Sony	Fusion
1	Volume +	Volume +	Volume +	Volume +	No specific programming order. Please refer to the owners manual of your particular radio for programming instructions..	Volume +	Volume +	Volume +	Volume +
2	Volume -	Volume -	Volume -	Volume -		Volume -	Volume -	Volume -	Volume -
3	Mute	Mute	Mute	Mute		Mute	Mute	Mute	Mute
4	Preset +	Source	Source	Source		Preset +	Preset +	Preset +	Source
5	Preset -	Track +	Play	Search +		Preset -	Preset -	Preset -	Track +
6	Source	Track -	Track +	Search -		Source	Source	Source / End Call	Track -
7	Track +	Band / Disc +	Track -	Band		Track +	Track +	Track +	Audio
8	Track -	Preset / Disc -	Disc / FM +	Send / End		Track -	Track -	Track -	Power
9	Power	Select	Disc / AM -	Send		Band	Band	Band	
10	Enter / Play	Attenuation	Answer	End		Phone Menu	Answer **	Power / End Call	
11	Band / Program	Phone Receive	Voice Dial	VR		Answer Call	End **	Voice Dial / Answer / End Call	
12	Receive	Phone Reject	On Hook			End Call	PTT **	VR (Android Auto & Car Play) Answer / End Call***	
13	End	Voice Dial	Off Hook			VR			
14	VR	Power	Mute						
15			Preset +						

* Advent, Boyo, Dual, Lightning Audio, Jensen, Rockford Fosgate & Visteon ** Jensen & Advent ONLY *** XAV-AX100 Only

Please Note: On any entry with multiple commands, the commands shown are source dependent.

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Button Re-assignment Procedure

Please read each of the following steps to familiarize yourself with the process before beginning. The buttons must be programmed in the specific order shown in the chart below.

1. Turn the key to the ignition position. The LED will illuminate red.
2. Press and hold the programming button on the side of the interface until the LED illuminates green. Release the programming button.
3. Within 7 seconds, press the button that is to be learned on the steering wheel. The LED will turn red when the steering wheel button is pressed. At this point you have two options:
    a. **For short press functionality:** Release the button on the steering wheel. The LED will change back to green.
    b. **For long press functionality:** Continue to hold the button until the LED flashes between red and amber. Release the button and the LED will change back to green.
4. Repeat step 3 for each additional button on the steering wheel.
5. If you come across a function in the chart that your steering wheel does not have, or you do not want to program, press and release the program button on the side of the interface to skip that function. The LED will turn off and back on when the skip has been done successfully.
6. Once programming is completed, wait seven seconds. The LED will flash green 3 times indicating the end of programming.
7. Test the interface for proper functionality. Whenever a SWC button is pressed the LED on the interface should blink green. If any function does not work, repeat the programming steps.

The SWC can always be restored to default settings by pressing and holding the programming button on the side of the interface until the LED illuminates green. Release the programming button, then wait 7 seconds for the LED to flash 3 times.

	Alpine	JVC	Kenwood / Lightning Audio	Clarion / Nakamichi	2-Wire Resistive	Pioneer	Other *	Sony	Fusion
1	Volume +	Volume +	Volume +	Volume +	No specific programming order. Please refer to the owners manual of your particular radio for programming instructions..	Volume +	Volume +	Volume +	Volume +
2	Volume -	Volume -	Volume -	Volume -		Volume -	Volume -	Volume -	Volume -
3	Mute	Mute	Mute	Mute		Mute	Mute	Mute	Mute
4	Preset +	Source	Source	Source		Preset +	Preset +	Preset +	Source
5	Preset -	Track +	Play	Search +		Preset -	Preset -	Preset -	Track +
6	Source	Track -	Track +	Search -		Source	Source	Source / End Call	Track -
7	Track +	Band / Disc +	Track -	Band		Track +	Track +	Track +	Audio
8	Track -	Preset / Disc -	Disc / FM +	Send / End		Track -	Track -	Track -	Power
9	Power	Select	Disc / AM -	Send		Band	Band	Band	
10	Enter / Play	Attenuation	Answer	End		Phone Menu	Answer **	Power / End Call	
11	Band / Program	Phone Receive	Voice Dial	VR		Answer Call	End **	Voice Dial / Answer / End Call	
12	Receive	Phone Reject	On Hook			End Call	PTT **	VR (Android Auto & Car Play) Answer / End Call***	
13	End	Voice Dial	Off Hook			VR			
14	VR	Power	Mute						
15			Preset +						

* Advent, Boyo, Dual, Lightning Audio, Jensen, Rockford Fosgate & Visteon ** Jensen & Advent ONLY *** XAV-AX100 Only

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Troubleshooting and FAQ

LED Legend			
Color	During Normal Operation	During Manual Programming Mode	During Optional Programming
Solid Red	Accessory on	Waiting on short press button release	Waiting on short press button release
Solid Green	N/A	Waiting on button to be pressed	Waiting on button to be pressed
Solid Amber	Update required - Please call tech support	N/A	N/A
Flashing Green	Button is being pressed	N/A	N/A
Flashing Amber every 5 seconds	Module is connected to the PC via USB	N/A	N/A
Flashing Red/Amber	**Error** - Dipswitch setting on vehicle switches set to unknown config	Long Press Button detected	Long Press Button detected
Flashing Green/Red	**Error** - Dipswitch setting on radio switches set to unknown config	N/A	N/A
Flashing Green/Amber/Red	**Error** - Button not pressed long enough or value of button is too close to rest value	N/A	N/A

Q. Where can I find the wiring info to connect the SWI-RC-1 to my vehicle?
A. The wiring info can be found on our website @ www.pac-audio.com/swi-rc-1
Q. Where can I find info on setting the DIPswitches on the side of the module?
A. The DIPswitch settings can be found on our website @ www.pac-audio.com/swi-rc-1
Q. The module's LED is flashing a pattern that is not consistent with normal operation.
A. Please reference the LED legend above for your specific case.
Q. Is there a way to perform a master reset to the module?
A. The interface can be reset, **when not connected via USB**, by pressing and holding the programming button on the side of the interface for seven seconds until the LED turns amber. **This reset can only be done while the module is connected to the vehicle**.
Q. I have connected all of the wires and set the DIPswitches as instructed. I am having an issue where some or all of the buttons are not functioning correctly or at all.
A. Verify that all of the ground wires (Radio, SWI-RC-1, and steering wheel circuit) are connected at the same place. In some vehicles the factory ground may not be a sufficient ground for all of these wires. In this case please make all ground connections to chassis ground.
Q. I'm looking at your website and I don't see my radio listed (Advent, Boyo, Dual, Lightning Audio, Rockford Fosgate or Visteon).
A. When installing any of these brands you will need to select Pioneer as your radio.

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