

Introduction & Features

The RP4-FD11 interface allows the replacement of a factory radio in select Ford/Lincoln/Mercury vehicles with MSCAN databus radios. Using this interface will retain factory features such as steering wheel controls (SWC), rear seat entertainment (RSE), Rear Seat Controls (RSC) and the THX or Sony amplifier when the original radio is removed. The RP4-FD11 also provides data bus driven outputs such as retained accessory power (RAP), vehicle speed sensor (VSS), illumination, reverse trigger and parking brake.

Important Notes

1. The radio select rotary switch on the side of the interface must be adjusted to the proper radio setting before plugging the interface into the vehicle (see below for setting chart).
2. The interface comes pre-programmed for all of the vehicles factory SWC functions and does not require programming unless you wish to re-assign the SWC functions to different buttons. The SWC can always be restored to default settings by pressing and releasing the program button on the side of the interface once and waiting 7 seconds for the LED to flash 4 times.
3. RSC & LCD buttons that are identical to the SWC will mimic the SWC one for one. All other buttons cannot be programmed.
4. The LED will flash whenever a SWC button is pressed.
5. The RSC must be in AM mode for Track +/- to function. RSC must be set to AUX mode to pass audio to aftermarket radio.
6. Vehicles equipped with a factory amplified system must disconnect SYNC if they wish to use the voice button. Not disconnecting SYNC will result in the rear speakers muting every time the voice button is pressed.
7. Feeding too strong of an audio signal into the headrest monitors will cause the audio output to shut down. If this happens you must turn the tv off and on and lower the audio signal.

Wiring Connection Chart

Interface Connector

| | |
|----------------|---------------------|
| Red / White | P.B. Output (-) |
| Purple / White | VSS Output |
| Blue / White | Amp Turn On Input |
| Red | Acc. Output (1 amp) |
| Orange / White | Illum. Output (+) |
| Green | Reverse Output (+) |

Vehicle Connector

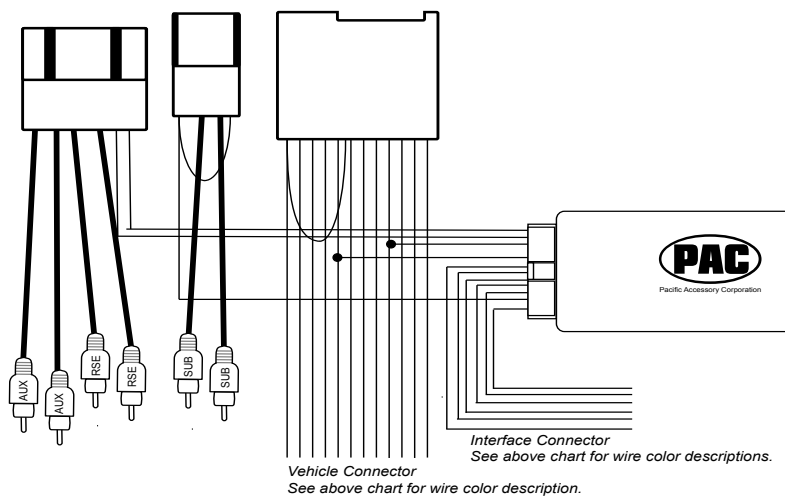
| | |
|----------------|------------------|
| Yellow | Battery +12v |
| Black | Ground |
| Blue | Antenna On Input |
| White | Front L + input |
| White / Black | Front L - input |
| Grey | Front R + input |
| Grey / Black | Front R - input |
| Green | Rear L + input |
| Green / Black | Rear L - input |
| Purple | Rear R + input |
| Purple / Black | Rear R - input |

SWC Connector

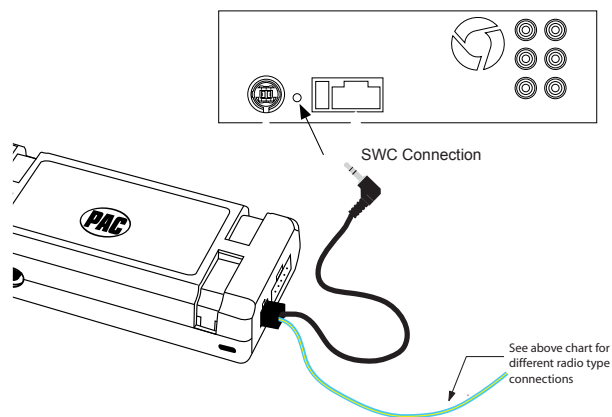
| | |
|------------|---|
| Blu/Yel | Kenwood, Newer JVC, OEM or Blaupunkt |
| 3.5mm Jack | Alpine, JVC, Clarion, Pioneer, Sony, Valor, Boyo, Dual, Visteon or Advent |

Illustration / Schematic

Wiring



SWC Connection



IMPORTANT! If you wish to use the Voice, OK or Phone button in vehicles equipped with analog SWC you **MUST** wire them into the RP4-FD11. The wires you need can be found by removing the steering wheel column and accessing the connector shown in Fig. 1. Once you have located the plug you must cut the wires located in pins 4 & 6 as shown in Fig. 2 (Wire colors may vary by vehicle). Finally you must connect the steering wheel side of pins 4 & 6 to the RP4-FD11 interface connector as shown in Fig. 3.



Fig. 1

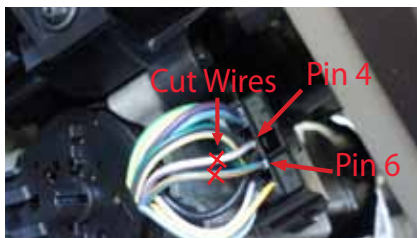


Fig. 2

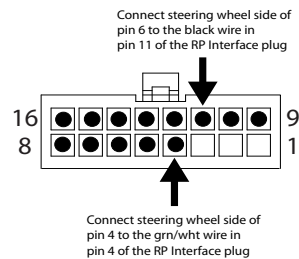


Fig. 3

Installation Steps

SET RADIO SELECT SWITCH



| Alpine | Advent, BOYO, Dual, Visteon, Sony | Blaupunkt | Clarion | JVC | Kenwood | OEM | Pioneer | Valor |
|--------|-----------------------------------|-----------|---------|-----|---------|-----|---------|-------|
| 1 | 7 | 8 | 4 | 2 | 3 | 6 | 7 | 5 |

- The radio select rotary switch on the side of the interface must be adjusted to the proper radio setting before plugging the interface into the vehicle.
- Make all connections as described in the connection chart on page 1.
- If the vehicle is equipped with RSE plug the RCA cables labeled "RSE" into the aftermarket radios AUX input. The RSE RCA cables are necessary to allow the headunit to play the RSE media audio through the cabin.
- If the vehicle is equipped with a factory subwoofer plug the RCA cables connected to the 8 pin plug into the Subwoofer or Non-Fading output of the aftermarket radio.
- Connect the SWC wire according to the chart on page 1 (aftermarket radio **MUST** support a wired remote input).
- If you wish to reassign functions to the SWC follow the programming instructions in the next section.

Optional Steering Wheel Control Programming

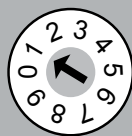
IMPORTANT! The interface comes pre-programmed for the functions listed in the chart below and does not require programming unless you wish to re-assign the SWC functions to different buttons. The SWC can always be restored to default settings by pressing the program button on the side of the interface once and waiting for the timeout.

Default SWC Button Assignments

| | Alpine | JVC | Kenwood | Clarion | Valor | OEM | Sony/Pioneer | Blaupunkt |
|-----------------|----------|---------------|----------|----------|-----------|----------|--------------|-----------|
| Volume + | Volume + | Volume + | Volume + | Volume + | Volume + | Volume + | Volume + | Volume + |
| Volume - | Volume - | Volume - | Volume - | Volume - | Volume - | Volume - | Volume - | Volume - |
| Media | Source | Source | Source | Source | Source | Source | Source | Source |
| Track + | Track + | Track + | Track + | Search + | Track + | Track + | Track + | Track + |
| Track - | Track - | Track - | Track - | Search - | Track - | Track - | Track - | Track - |
| Voice | Mute | Attenuation | Mute | Mute | Mute | Mute | Mute | Mute |
| Phone | Receive | Phone Receive | Answer | Send/End | Cursor Up | Answer | Answer Call | Disc Up |
| OK | Ent/Ply | Select | Play | Band | OK | Play/OK | Phone Menu | OK |

If you wish to re-assign the SWC functions, the interface must be programmed in the specific order shown in the chart below. 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 flash off and on confirming that you have successfully skipped that function and are ready to proceed to the next one.

SET RADIO SELECT SWITCH



| Alpine | Advent, BOYO, Dual, Visteon, Sony | Blaupunkt | Clarion | JVC | Kenwood | OEM | Pioneer | Valor |
|--------|-----------------------------------|-----------|---------|-----|---------|-----|---------|-------|
| 1 | 7 | 8 | 4 | 2 | 3 | 6 | 7 | 5 |

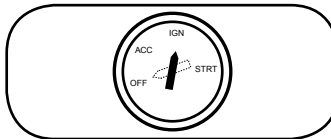
Optional Programming Order

| | Alpine | JVC | Kenwood | Clarion | Valor | OEM | Advent, Boyo, Dual, Visteon, Sony | Pioneer | Blaupunkt |
|----|--------------|---------------|-----------|----------|-------------|-------------|-----------------------------------|------------------|-----------|
| 1 | Volume + | Volume + | Volume + | Volume + | Volume + | Volume + | Volume + | Volume + | Volume + |
| 2 | Volume - | Volume - | Volume - | Volume - | Volume - | Volume - | Volume - | Volume - | Volume - |
| 3 | Mute | Mute | Mute | Mute | Mute | Mute | Mute | Mute | Mute |
| 4 | Preset + | Source | Source | Source | Source | Source | Preset + | Preset + | Source |
| 5 | Preset - | Track + | Play | Search + | Track + | Next | Preset - | Preset - | Track + |
| 6 | Source | Track - | Track + | Search - | Track - | Previous | Source | Source | Track - |
| 7 | Track + | Band/Disc + | Track - | Band | Up Cursor | Play/Ok | Track + | Track + | Disc + |
| 8 | Track - | Preset/Disc - | Disc/FM + | Send/End | Down Cursor | Band | Track - | Track - | Disc - |
| 9 | Power | Select | Disc/AM - | Send | Ok | Up Cursor | Band | Band | Ok |
| 10 | Enter/Play | Attenuation | Answer | End | | Down Cursor | | Phone Menu | |
| 11 | Band/Program | Phone Receive | | | | BT Answer | | Answer Call | |
| 12 | Receive | Phone Reject | | | | BT Hangup | | End Call | |
| 13 | End | Voice Dial | | | | | | Voice Activation | |
| 14 | | Power | | | | | | | |

Optional Steering Wheel Control Programming (cont.)

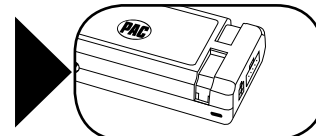
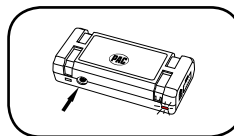
Step A.

Turn the vehicle ignition to the ON position.



Step B.

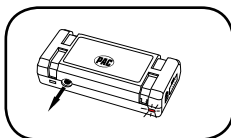
Press and hold the programming button.



LED will turn off.

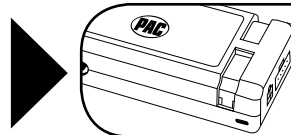
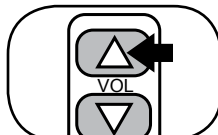
Step C.

Release the programming button. The LED will turn back on.



Step D.

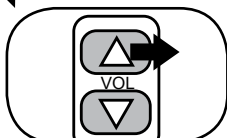
Within 7 seconds, press and release the button that is to be learned on the steering wheel.



The LED will turn off during this process.

Step E.

Release the button.



The LED will turn on back on.

Step F.

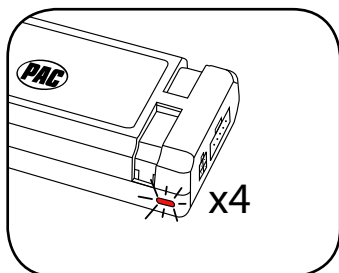
If you need to program more buttons, repeat steps D & E for each additional audio function on the steering wheel.

Program remaining buttons



Step G.

After all buttons are programmed



Once programming is completed, **wait 7 seconds**. The LED will flash four times indicating the end of programming.

Testing & Verification

1. Turn the ignition on. The LED on the interface will turn on & the +12v accessory wire will turn on.
2. Turn on the radio & check balance & fade. Note: **Factory amplified Systems** will not fade as neither the aftermarket radio or the RP interface have the ability to control the amplifier's fader.
3. Verify that the factory subwoofer (if present) is playing
4. Verify that all SWC are functioning properly.
4. Turn off vehicle & remove key. RAP will be active & keep the radio on for 10 minutes or until the drivers door is opened.
5. The LED & radio will turn off when RAP turns off or the drivers door is opened.

Rear Seat Entertainment (RSE); If equipped

If you would like for the RSE system's audio to play through the aftermarket radio:

First set the aftermarket radio to Aux input. Press the Power button on the RSE & insert a DVD. You should now hear the RSE audio on the aftermarket radio. If the RSE audio is only playing on the front speakers the RSE is set to dual zone mode. Press the Dual Zone button on the RSE controls until "Single Play" is displayed across the top of the RSE screen.

RSE Audio Modes - There are 2 different modes for the RSE audio, they are Single Play & Dual Play.

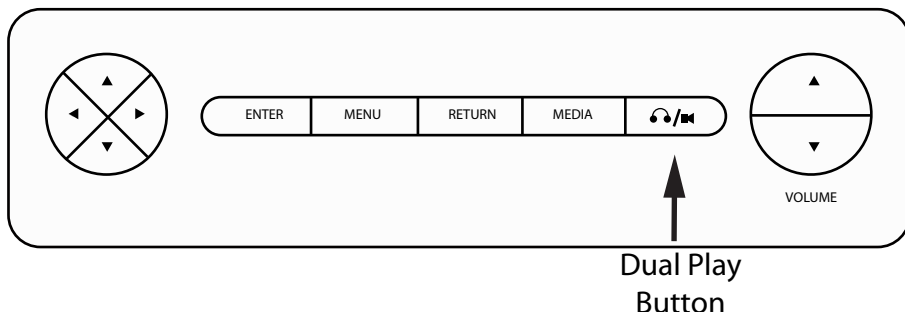
1. Single Play - Press the Dual Zone button on the RSE controls until "Single Play" is displayed across the top of the RSE screen. In this mode the RSE audio is played throughout all speakers in the cabin.

2. Dual Play - Press the Dual Zone button on the RSE controls until "Dual Play" is displayed across the top of the RSE screen. In this mode the rear speakers will be muted & the RSE audio is transmitted through the factory IR headphones while the front passengers can now listen to whatever source they like.

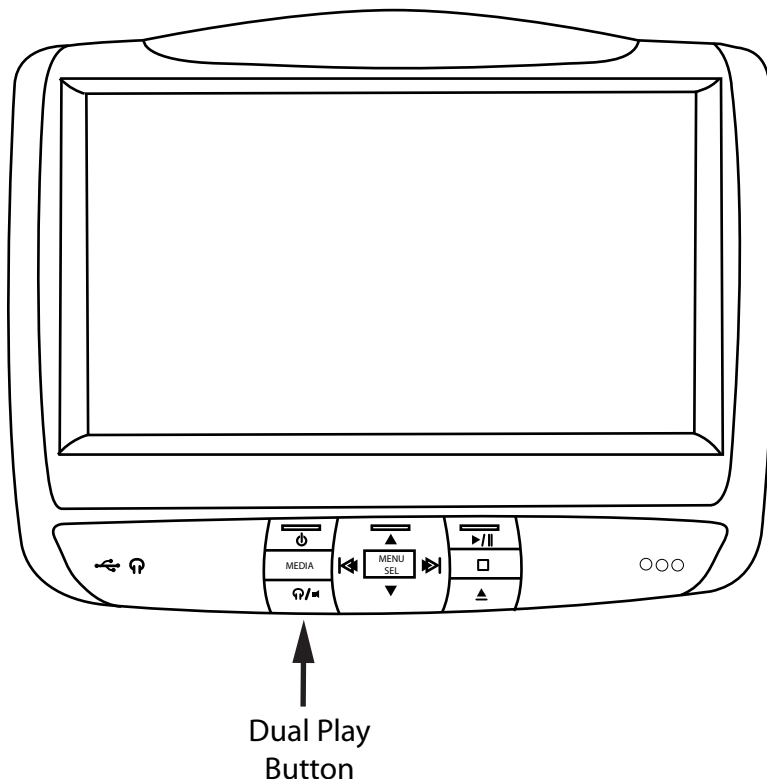
RSE Operation Notes:

1. If the vehicle is equipped with RSE with single play/dual play button on the monitor in the headrests, the driver side monitor is the master source unit. The source on the passenger headrest cannot be viewed on the driver side.
2. Both monitors must turn headphones off in order to hear rse audio through radio.
3. Monitors without single play/dual play button on monitor operate independantly and audio can never be passed to the new radio. In these vehicles rse audio comes from aux in on back of center console.
4. In 2011+ vehicles the car must be in ignition mode for the RSE to operate properly. Being in acc mode will cause erratic behavior.

Vehicles With Overhead Monitor



Vehicles With Headrest Monitor



Product Updates (Firmware)

The RP4-FD11 can be updated with new firmware as it becomes available using the PAC-UP interface updater (sold separately). Please visit www.pac-audio.com/firmware for available updates.