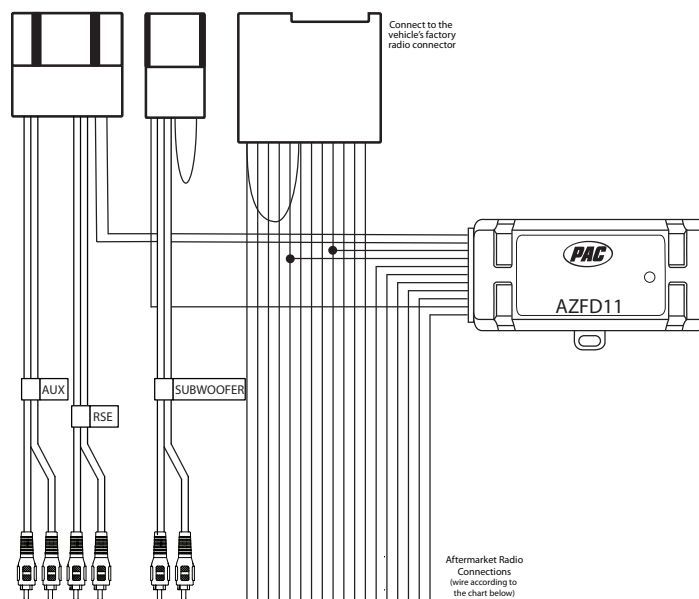


Introduction & Features

The AZFD11 is an essential installation accessory for select 2005 - 2014 Ford/Lincoln/Mercury vehicles with MSCAN databus radios. Using this interface will enable factory features such as rear seat entertainment (RSE), rear seat controls (RSC) and the THXII amplifier when the original radio is removed. Other features of the AZFD11 include a 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), a 5 volt regulated amp turn on for factory installed subwoofers (this eliminates the pop heard when connecting the amps turn on wire directly to the radio) 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.

Illustration / Schematic



Wiring Connections

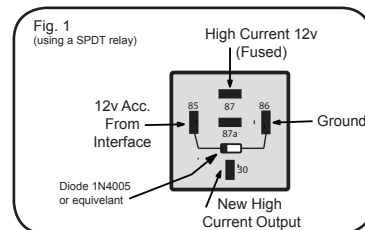
AZFD11 Wire Color	Radio Connection	Description
Yellow	Yellow	Constant Power (Memory)
Black	Black	Ground
Red	Red	Accessory Power (Key Switched)
Blue / White	Blue / White	Remote Amplifier Turn On
Blue	Blue*	Power Antenna signal
White	White	Front Left Speaker Positive (+)
White / Black	White / Black	Front 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
White / Green	Connect to the PAC SWI-RC module.	Steering Wheel Control Output

* 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.



Installation

1. Make radio necessary connections to the provided harness, independently isolating unused wires. The wire colors and descriptions are noted above. The RAP output will last for approximately 10 minutes after the key is off or until a door is opened. This output is rated at 1 amp max (for more current refer to figure 1).
2. The Steering Wheel Control (SWC) Output wire can only be connected to an optional SWC interface (SWI-RC sold separately). Use the vehicle specific interface version number, additional connection notes and programming information provided with the SWC interface.
3. The ability to fade (front/rear) the THXII amplifier is lost once the factory radio is removed. The amplifiers DSP mode is set for "all seats" by the C2R-FRD1 interface.
4. The AUX Jack RCA cables come from the original 3.5mm auxiliary connection if equipped. This can be connected to the radios auxiliary input to make use of the existing auxiliary connection location.
5. The Rear Seat Entertainment (RSE) RCA cables come from either the overhead DVD system or the rear seat controls (RSC) if the vehicle is equipped. Connecting these cables to an auxiliary input will allow the overhead DVD or the RSC auxiliary source to be heard throughout the cabin when selected. The Single/Dual Play button will loop through the available modes listed below.
6. Most Ford/Lincoln/Mercury factory subwoofer inputs are mono, wires may only be present for 1 RCA cable. Connect this to your radio's non-fading output (sub out) if available. The front or rear pre-amp output is suitable for this connection.



Operation

1. Using the Rear Seat Entertainment (RSE) system:

DVD Single Play: DVD audio is routed to the RSE RCA cables behind the radio and the DVD video is displayed on the overhead LCD (default mode, resets upon engine crank).

DVD Dual Play: DVD audio is routed to the rear headphones (wireless and hard wired) and the DVD video is displayed on the overhead LCD. The rear speakers are muted (THXII the subwoofer is also muted).

DVD/AUX Single Play: The auxiliary input is located on the overhead LCD DVD. Audio is routed to the RSE RCA cables behind the radio and the auxiliary video will be displayed on the overhead LCD.

DVD/AUX Dual Play: Auxiliary audio is routed to the rear headphones (wireless and hard wired) and the auxiliary video will be displayed on the overhead LCD. The rear speakers are muted (THXII the subwoofer is also muted).

*****NOTE: If the Audio from the RSE is distorted, a ground loop isolator will be required. (PAC PN: SNI-1 sold separately)**

See below for Bulletin.***

2. Using the Rear Seat Controls (RSC):

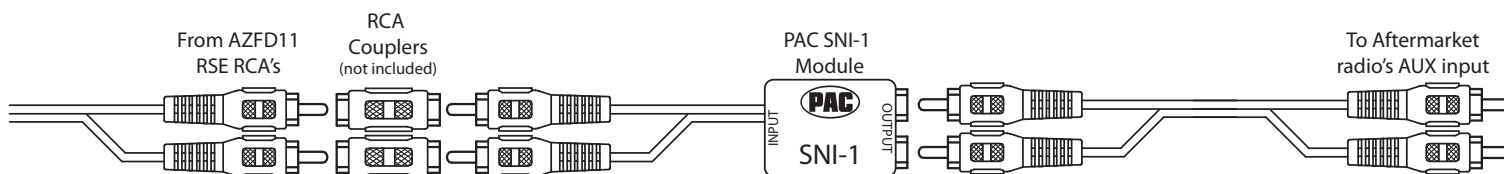
When active the display will read "AUX".

AUX Single Play: The Auxiliary input located on the rear seat controls is routed to the RSC RCA cables behind the radio (default mode, resets upon engine crank).

AUX Dual Play: Auxiliary audio is routed to the rear headphones. The rear speakers are muted (THXII the subwoofer is also muted).

Bulletin:

The audio signal coming from the RSE in Ford/Lincoln/Mercury vehicles is a differential output. Some auxiliary inputs on after-market radios have a common ground input that causes distortion in the RSE audio. The audio distortion can be fixed by using a ground loop isolator (PAC Part# SNI-1) between the RSE output from the AZFD11 and the aftermarket radio's auxiliary input. The SNI-1 is directional and will require additional RCA couplers. (See diagram below)



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.
3. Turn radio to the AUX input source and check to make sure the RCA's are connected 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 driver's door is opened.

