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AXXESS AXTC-FD2 Steering Wheel Control Instruction Manual

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Contents

INTERFACE FEATURES

- Provides accessory power (10-amp)
- Provides wires for multimedia radios (park brake, reverse, speed sense)
- Retains audio controls on the steering wheel
- Designed to be compatible with all major radio brands
- Auto detects vehicle type, radio connection, and preset controls
- Ability to dual assign steering wheel control buttons
- Retains memory settings even after battery disconnection or interface removal (non volatile memory)
- Provides illumination output
- Retains the 3.5mm AUX-IN jack
- Micro-B USB updatable
- Includes 5v factory amplifier step-down

APPLICATIONS

Ford(1)
Escape 2013-2016
Focus 2012-2014
Ranger 2019-Up
Transit Connect 2014-2016

1. This interface must be used along with the corresponding Metra radio install-kit (sold separately)

NTERFACE COMPONENTS

- AXTC-FD2 interface
  - AXTC-FD2 harness
- 3.5mm adapter
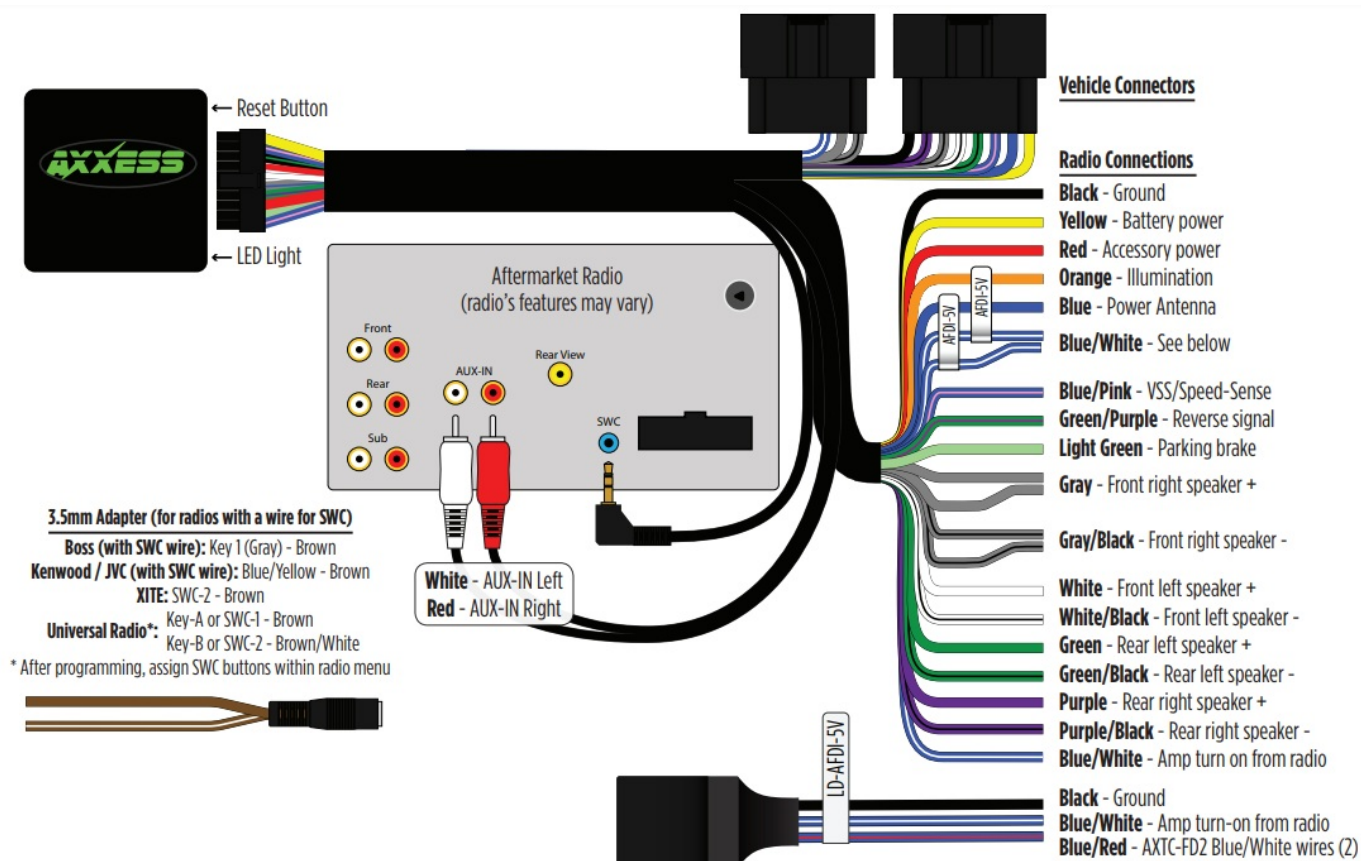- LD-AFDI-5V amplifier step-down

TOOLS & INSTALLATION ACCESSORIES REQUIRED

- Crimping tool and connectors, or solder gun, solder, and heat shrink
  - Tape
  - Wire cutter
- Zip ties

Product info

CONNECTIONS

← Reset Button

← LED Light

Aftermarket Radio
(radio's features may vary)

Front
Rear
Sub
AUX-IN
Rear View
SWC

3.5mm Adapter (for radios with a wire for SWC)
Boss (with SWC wire): Key 1 (Gray) - Brown
Kenwood / JVC (with SWC wire): Blue/Yellow - Brown
XITE: SWC-2 - Brown
Universal Radio*: Key-A or SWC-1 - Brown
Key-B or SWC-2 - Brown/White
* After programming, assign SWC buttons within radio menu

White - AUX-IN Left
Red - AUX-IN Right

Vehicle Connectors

Radio Connections
Black - Ground
Yellow - Battery power
Red - Accessory power
Orange - Illumination
Blue - Power Antenna
Blue/White - See below

Blue/Pink - VSS/Speed-Sense
Green/Purple - Reverse signal
Light Green - Parking brake
Gray - Front right speaker +

Gray/Black - Front right speaker -

White - Front left speaker +
White/Black - Front left speaker -
Green - Rear left speaker +
Green/Black - Rear left speaker -
Purple - Rear right speaker +
Purple/Black - Rear right speaker -
Blue/White - Amp turn on from radio

Black - Ground
Blue/White - Amp turn-on from radio
Blue/Red - AXTC-FD2 Blue/White wires (2)
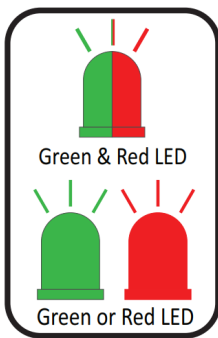
AF-DI-5V   AFDI-5V

LD-AFDI-5V

PROGRAMMING

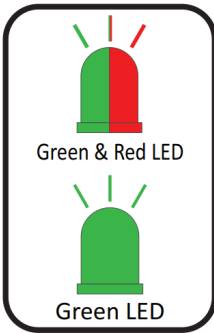1. Open the driver's door, and keep open during the programming process.

2. Cycle the ignition on and wait 5 seconds, or until the factory display screens reads LINEIN.

3. Connect the AXTC-FD2harness to the AXTC-FD2interface, and then to the wiring harness in the vehicle.
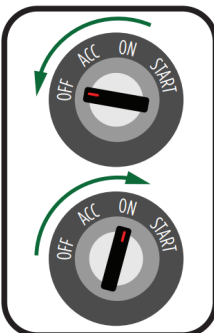

Tap Volume Up

VOL +

4. Locate the Volume Up button on the steering wheel. Program the interfaceby tapping the Volume Up button at a heartbeat pace until the LED light stops flashing.

5. The LED light will flash Green & Red while the interface programs the radio to the steering wheel controls. Once programmed, the LED light will go out, then produce a pattern which will identify the radio type installed.

6. The LED light will go out, then once again quickly flash Green & Red while the interface programs itself to the vehicle. Once programmed, the LED light will go out again, then turn solid Green.
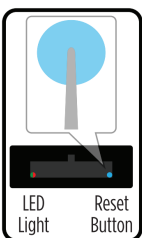
7. Cycle the ignition off, then back on.

8. Test all functions of the installation for proper operation.

TROUBLESHOOTING

1. If the interface fails to function, press and release the reset button, then repeat the programming process from step 4 to try again.

QR Code Scan Here

Further troubleshooting steps and information can be located at: **axxessinterfaces.com/product/AXTC-FD2**

2. **Final LED Feedback**

   At the end of programming the LED light will turn Solid Green which indicates programming was successful. If the LED light didn't turn Solid Green, reference the list below to understand which programming section the problem may stem from.

LED Light	Radio Programming Section	Vehicle Programming Section
Solid Green	Pass	Pass
Slow Red Flash	Fail	Pass
Slow Green Flash	Pass	Fail
Solid Red	Fail	Fail

Note: If the LED light shows Solid Green for Pass (indicating everything programmed correctly), yet the steering wheel controls don't work, check to ensure that the 3.5mm jack is plugged in, and also plugged into the correct jack on the radio.

Once corrected, press the reset button, then program again.

Having difficulties? We're here to help.

📞 Contact our Tech Support line at:
386-257-1187

✉ Or via email at:
techsupport@metra-autosound.com

TechSupport Hours (EasternStandardTime)

Monday – Friday: 9:00 AM – 7:00 PM
Saturday: 10:00 AM – 7:00 PM
Sunday: 10:00 AM – 4:00 PM

tomorrow.

If the AXTC-FD2's LED light didn't turn solid Green at the end of the vehicle programming sequence (step 6 from the AXTC-FD2 instructions), but flashed slowly Green instead, this means the AXTC-FD2 didn't detect the vehicle. Follow the steps below to trace down where the problem may lie. If any of the following steps are performed, reset and reprogram the AXTC-FD2 per the vehicle specific document.

Is the interface programmed?
Make sure the AXTC-FD2 is programmed exactly as the vehicle specific document is worded. The upper display should read Line In before programming the AXTC-FD2. If the upper display doesn't read Line In, make sure the Metra dash kit (sold separately) is plugged in and working. Once the display reads Line In, tap the Volume Up button on the the steering wheel at a heartbeat pace. Try tapping the Volume Up button at different speeds if no success after a couple attempts.

Does the factory equipment work?
Reinstall the factory radio and any electronic modules that are unplugged. Test the steering wheel control buttons, starting with the Volume Up button. If they don't work 100%, they will need to be repaired before using the AXTC-FD2.

Does the interface have power?
Connect the leads from a digital multimeter (DMM) to the Black (pin-7) and Yellow (pins 1 & 11*) wires from the AXTC-FD2's 20-pin connector. The meter should read roughly 12-volts DC. If there's no power there, trace the wires back to the factory harness and test the factory wires.
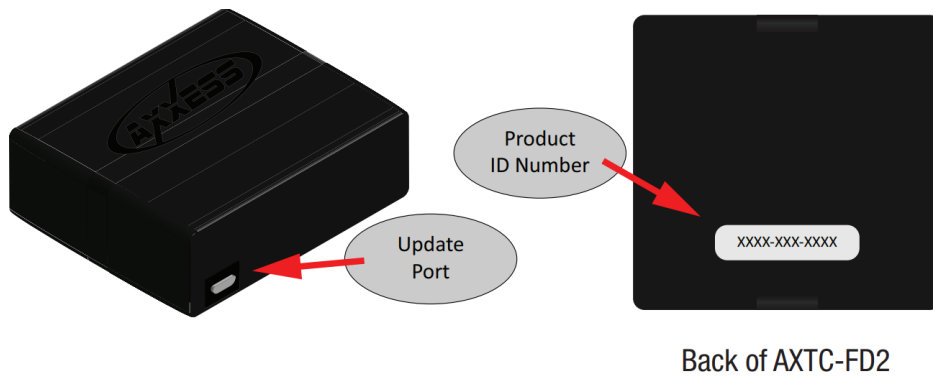* Check each wire one at a time

Does the interface have a good ground?
Still not working? Cut the Black ground wire from the AXTC-FD2 loose, crimp a ring terminal onto it, then secure it to a good chassis point in the vehicle. If the wire needs slightly extended, use the same gauge wire, along with a proper terminal to extend the wire. Soldering is also acceptable. Do not use tapping style connectors.

Update the AXTC-FD2
If all troubleshooting steps have been performed and the AXTC-FD2 still doesn't go solid Green at the end of the programming sequence, update the\ AXTC-FD2 to the latest firmware, then try programming once more.
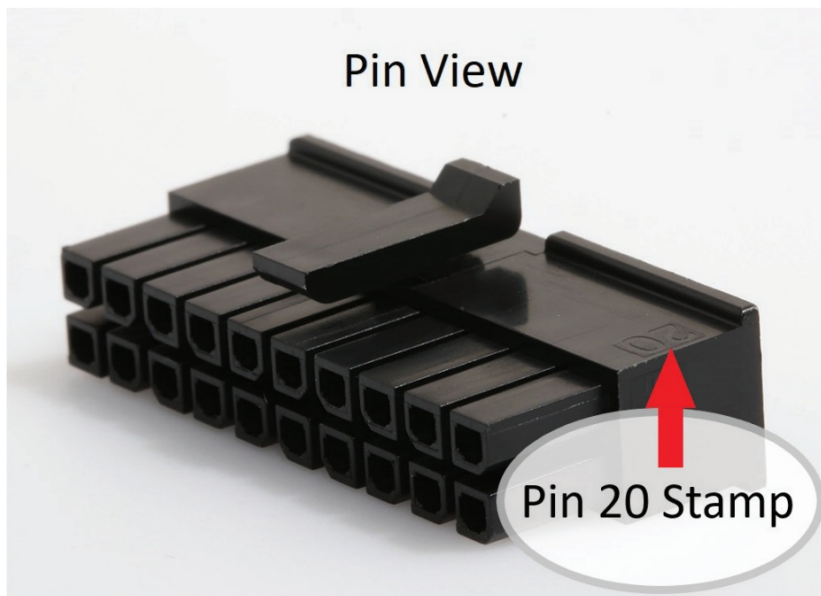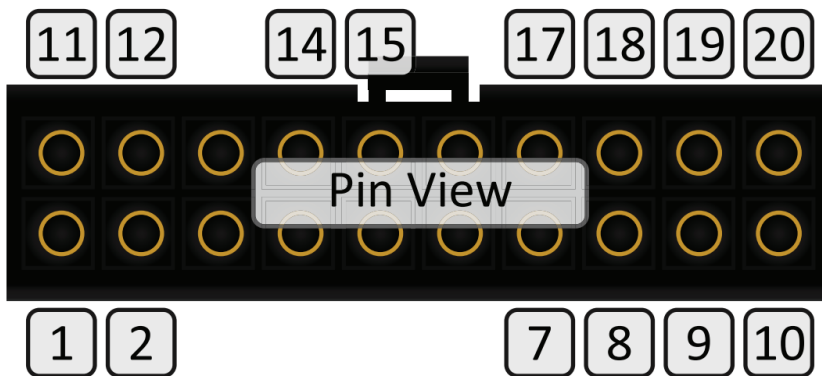If the AXTC-1 still doesn't go solid Green at the end of the programming sequence, contact Tech Support at 1-800-253-TECH. Be prepared to perform some tests in the vehicle when you contact Tech Support, and have the VIN of the vehicle and the Product Identification Number on the bottom of the AXTC-FD2 noted.
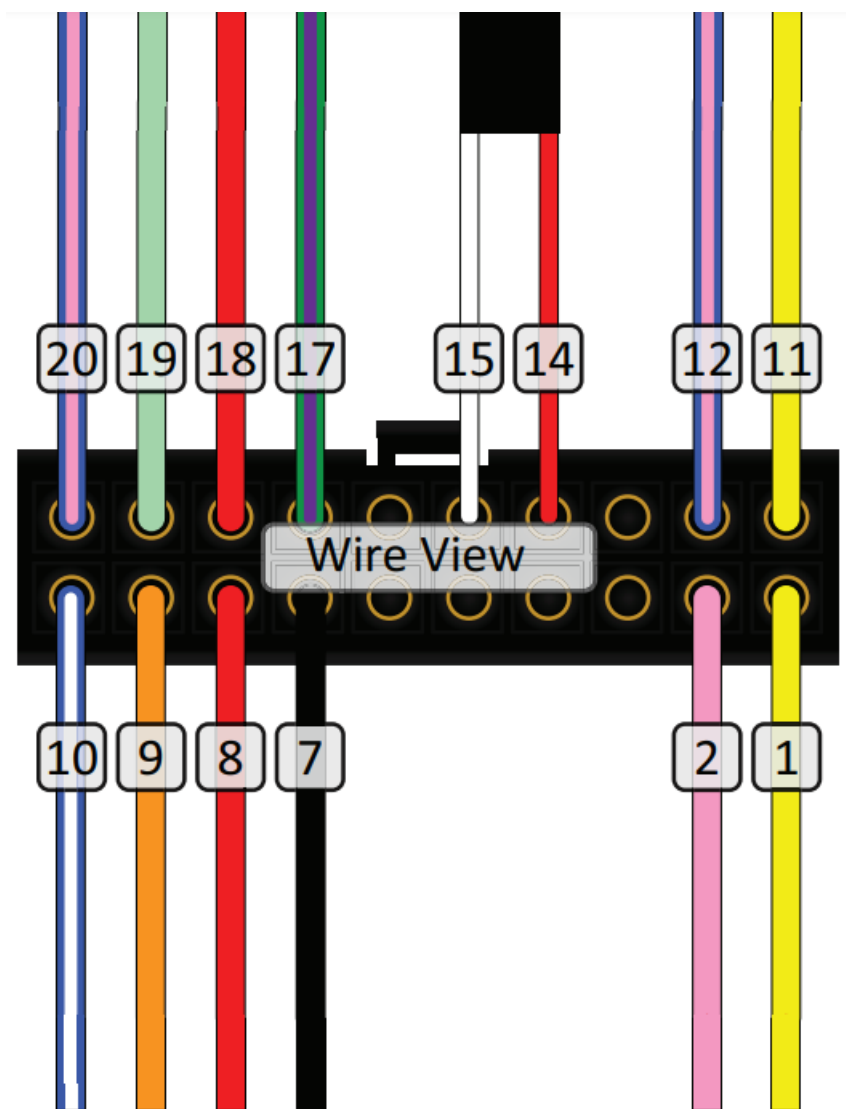
Product
ID Number

XXXX-XXX-XXXX

Update
Port

Back of AXTC-FD2

AXTC-FD2 20-Pin Connector Pinout

This is the view of the AXTC-FD2 wiring harness looking at the front of the connector (pin view). For reference, the connector has the number 20 stamped onto it.

| 11 | 12 | | 14 | 15 | | | 17 | 18 | 19 | 20 |

Pin View

| 1 | 2 | | | | | | 7 | 8 | 9 | 10 |

Pin View

Pin 20 Stamp

This is the view of the AXTC-FD2 wiring harness looking at the **back of the connector** (wire view). For reference, the connector has the number 20 stamped onto it.

Wire View

Wire #	Color	Function	Input / Output	Notes
1	Yellow	12V+ Battery Power	Input	Tied with pin-11
2	Pink	CAN-HI Data	Input	
7	Black	Ground	Input	
8	Red	12V+ (5-amp) Accessory Power	Output	Tied with pin-18
9	Orange	12V+ Illumination	Output	

10	Blue/White	12V+ Amplifier Turn-On	Input	
11	Yellow	12V+ Battery Power	Input	Tied with pin-1
12	Blue/Pink	CAN-LO Data	Input	
14	Red (skinny)	SWC 3.5mm Jack +	Output	Tip of 3.5mm jack
15	White (skinny)	SWC 3.5mm Jack –	Output	Ring of 3.5mm jack
17	Green/Purple	12V+ Reverse Trigger	Output	
18	Red	12V+ (5-amp) Accessory Power	Output	Tied with pin-8
19	Light Green	12V- Parking Brake Trigger	Output	
20	Blue/Pink	VSS (speed pulse)	Output	4000 pulses per mile

Documents / Resources

AXXESS AXTC-FD2 Steering Wheel Control [pdf] Instruction Manual
AXTC-FD2 Steering Wheel Control, AXTC-FD2, Steering Wheel Control

References

- 🔴 **Auto Sound Company Inc - Aftermarket Vehicle Accessory Specialists**
- 🔶 **Axxess Integrate - Comprehensive Interface Products for Vehicle Upgrades**
- 🔶 **AXTC-FD2 | Axxess Integrate**
- 🌐 **Installer Institute | Car Audio Installation and Mobile Electronics Education**

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