





INTERFACE COMPONENTS

- AXDIS-FD1 interface
- AXDIS-FD1 harness
- 16-pin harness with stripped leads
- Female 3.5mm connector with stripped leads

TOOLS REQUIRED

• Wire cutter • Crimp tool • Solder gun • Tape • Connectors (example: butt-connectors, bell caps, etc.) • Small flat-blade screwdriver

APPLICATIONS

See inside front cover

Ford Data Interface with SWC 2007-Up

INTERFACE FEATURES

- Provides accessory power (12-volt 10-amp)
- Retains R.A.P. (retained accessory power)
- Provides NAV outputs (parking brake, reverse, speed sense)
- Retains audio controls on the steering wheel
- Retains RSE (rear seat entertainment)
- Retains SAT (satellite radio)
- Retains SYNC
- Retains the factory AUX-IN jack
- Can be used in both non-amplified and amplified models (including Sony/THX)
- Retains balance and fade (excluding Sony/THX)
- · Micro-B USB updatable

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Product Info



APPLICATIONS

FORD		FORD (CONT)		FORD (CONT)		FORD (CONT)		MAZDA	
Econoline (w/CD)	2009-up	Explorer Sport Trac		F-250/350/450/550	2011-2012	Mustang	2009-2014	Tribute	2008-2011
Edge	2007-2010	(w/ NAV)	2009-2010	F-250/350/450/550 XLT	, XL	Taurus	2010-2012	MERCURY	
Escape	2008-2012	F-150 *	2009-2012	(w/CD)	2013-2016	LINCOLN		Mariner	2008-2011
Expedition	2007-2014	F-150 STX/FX2 base/XLT	base	F-650/750 (w/ CD)	2016-up	MKX	2007-2010	Milan	2010-2011
Explorer (w/ NAV)	2009-2010		2013	Focus	2008-2011	MKZ	2007-2010	rillari	2010 2011
		F-150 STX/XLT base	2014	Fusion	2010-2012	Navigator	2007-2014		

^{*} XL models must be equipped with a CD player

CONNECTIONS

Attention! This interface will work with models that are either Sony/THX amplified, or non-amplified. Please follow the instructions carefully for your model vehicle. Failure to do so will result in either no sound, or low sound. If you are unsure if your vehicle is factory amplified or not, please contact your local dealership.

For models without a Sony/THX amplifier:

From the 16-pin harness with stripped leads to the aftermarket radio:

- Connect the **Red** wire to the accessory wire.
 - **Note:** If installing an AX-LCD (sold separately), there will be an accessory wire there to connect as well.
- If the vehicle is equipped with a factory subwoofer, connect the Blue/White wire to the amp turn on wire.
- If the aftermarket radio has an illumination wire, connect the Orange/White wire to it.
- If the aftermarket radio has a mute wire and the vehicle is equipped with SYNC, connect the
 Brown wire to it. If the mute wire is not connected, the radio will turn off when SYNC is activated.
- Connect the Gray wire to the right front positive speaker output.
- Connect the Gray/Black wire to the right front negative speaker output.
- Connect the White wire to the left front positive speaker output.
- Connect the White/Black wire to the left front negative speaker output.

The following (3) wires are only for multimedia/navigation radios that require these wires.

- Connect the **Blue/Pink** wire to the VSS/speed sense wire.
- Connect the **Green/Purple** wire to the reverse wire.
- Connect the Light Green wire to the parking brake wire
- Tape off and disregard the following (4) wires, they will not be used in this application: Green, Green/Black, Purple, Purple/Black.

From the AXDIS-FD1 harness to the aftermarket radio:

- Connect the **Black** wire to the ground wire.
- Connect the **Yellow** wire to the battery wire.
- Connect the **Blue** wire to the power antenna wire.
- Tape off and disregard the **Blue/White** wire, it will not be used in this application.
- Connect the **Green** wire to the left rear positive speaker output.
- Connect the **Green/Black** wire to the left rear negative speaker output.
- Connect the **Purple** wire to the right rear positive speaker output.
- Connect the Purple/Black wire to the right rear negative output.
- If the vehicle is equipped with SYNC, connect the Red and White RCA jacks labeled "RSE/ SYNC/SAT" to the audio AUX-IN jacks.
- If the vehicle is equipped without SYNC, connect the **Red** and **White** RCA jacks labeled "FROM 3.5" to the audio AUX-IN jacks.
- The DIN jack is to be used with the optional AX-LCD (sold separately) to retain SYNC information.
 - Connect the **Red** wire to accessory power.
- If the vehicle is equipped with a factory subwoofer, connect the White RCA jack labeled "SUBWOOFER" to the subwoofer out jack.
- Disregard the **Red** RCA jack labeled "CENTER CHANNEL", it will not be used in this application.

Continue to 3.5mm jack steering wheel control retention

CONNECTIONS (CONT)

Attention! This interface will work with models that are either Sony/THX amplified, or non-amplified. Please follow the instructions carefully for your model vehicle. Failure to do so will result in either no sound, or low sound. If you are unsure if your vehicle is factory amplified or not, please contact your local dealership.

For models with a Sony/THX amplifier:

From the 16-pin harness with stripped leads to the aftermarket radio:

- Connect the **Red** wire to the accessory wire.
 - **Note:** If installing an AX-LCD (sold separately), there will be an accessory wire there to connect as well.
- Connect the Blue/White wire to the amp turn on wire. This wire must be connected to hear sound from the factory amplifier.
- If the aftermarket radio has an illumination wire, connect the **Orange/White** wire to it.
- If the aftermarket radio has a mute wire and the vehicle is equipped with SYNC, connect the
 Brown wire to it. If the mute wire is not connected, the radio will turn off when SYNC is activated.
- Connect the Gray wire to the right front positive speaker output.
- Connect the Gray/Black wire to the right front negative speaker output.
- Connect the White wire to the left front positive speaker output.
- Connect the White/Black wire to the left front negative speaker output.
- Connect the **Green** wire to the left rear positive speaker output.
- Connect the Green/Black wire to the left rear negative speaker output.
- Connect the **Purple** wire to the right rear positive speaker output.
- Connect the **Purple/Black** wire to the right rear negative output.

The following (3) wires are only for multimedia/navigation radios that require these wires.

- Connect the **Blue/Pink** wire to the VSS/speed sense wire.
- Connect the **Green/Purple** wire to the reverse wire.
- Connect the **Light Green** wire to the parking brake wire

From the AXDIS-FD1 harness to the aftermarket radio:

- Connect the **Black** wire to the ground wire.
- Connect the **Yellow** wire to the battery wire.
- Connect the **Blue** wire to the power antenna wire.
- **For NAV models only:** Connect the **Blue/White** wire from the 24-pin connector to the amp turn on wire. This wire must be connected to hear sound from the factory amplifier.
- If the vehicle is equipped with SYNC, connect the Red and White RCA jacks labeled "RSE/ SYNC/SAT" to the audio AUX-IN jacks.
- If the vehicle is equipped without SYNC, connect the Red and White RCA jacks labeled "FROM 3.5" to the audio AUX-IN jacks.
- The DIN jack is to be used with the optional AX-LCD (sold separately) to retain SYNC information.
 - Connect the **Red** wire to accessory power.
- Connect the White RCA jack to the subwoofer out jack.
- Connect the **Red** RCA jack to the center channel out jack on the radio/processor.
 - **Note:** If this jack is not present on the aftermarket radio, just leave be. Only the center channel speaker will be lost.
- Tape off and disregard the following (4) wires, they will not be used in this application: Green, Green/Black, Purple, Purple/Black.

Continue to 3.5mm jack steering wheel control retention

CONNECTIONS (CONT)

3.5mm jack steering wheel control retention:

- The 3.5mm jack is to be used to retain audio controls on the steering wheel.
 - For the radios listed below, connect the included female 3.5mm connector with stripped leads onto the male 3.5mm SWC jack from the AXDIS-FD1. Any remaining wires tape off and disregard.
 - Eclipse: Connect the steering wheel control wire, normally Brown, to the Brown/White wire of the connector. Then connect the remaining steering wheel control wire, normally Brown/White, to the Brown wire of the connector.
 - Metra OE: Connect the steering wheel control Key 1 wire (Gray) to the Brown wire.
 - Kenwood or select JVC with a steering wheel control wire: Connect the Blue/Yellow wire to the Brown wire.

Note: If your Kenwood radio auto detects as a JVC, manually set the radio type to Kenwood. See the instructions under changing radio type.

- XITE: Connect the steering wheel control SWC-2 wire from the radio to the Brown wire.
- Parrot Asteroid Smart or Tablet: Connect the 3.5mm jack into the AXSWCH-PAR (sold separately), and then connect the 4-pin connector from the AXSWCH-PAR into the radio.

Note: The radio must be updated to rev. 2.1.4 or higher software.

 Universal "2 or 3 wire" radio: Connect the steering wheel control wire, referred to as Key-A or SWC-1, to the Brown wire of the connector. Then connect the remaining steering wheel control wire, referred to as Key-B or SWC-2, to the Brown/White wire of the connector. If the radio comes with a third wire for ground, disregard this wire.

Note: After the interface has been programmed to the vehicle, refer to the manual provided with the radio for assigning the SWC buttons. Contact the radio manufacturer for more information.

For all other radios: Connect the 3.5mm jack from the AXDIS-FD1 into the jack on the aftermarket radio
designated for an external steering wheel control interface. Please refer to the aftermarket radios
manual if in doubt as to where the 3.5mm jack goes to.

INSTALLATION

With the key in the off position:

 Connect the 16-pin harness with stripped leads, and the AXDIS-FD1 harness, into the interface.

Attention! Do not connect the AXDIS-FD1 harness to the wiring harness in the vehicle just yet.

Attention! If retaining steering wheel controls, ensure that the jack/wire is connected to the radio before proceeding. If this step is skipped, the interface will need to be reset for the steering wheel controls to function.

PROGRAMMING

For the steps below, the L.E.D. located inside the interface can only be seen while active. The interface does not need to be opened to see the L.E.D.

- Start the vehicle.
- Connect the AXDIS-FD1 harness to the wiring harness in the vehicle.
- The L.E.D. will initially turn on solid Green, then turn off for a few seconds while it auto detects the radio installed.
- The L.E.D. will then flash Red up to (18) times indicating which radio is connected to the interface, and then turn off for a couple of seconds. Pay close attention to how many Red flashes there are. This will help in troubleshooting, if need be. Refer to the L.E.D. feedback section for more information.
- After a couple seconds the L.E.D. will turn on solid Red while the interface auto detects
 the vehicle. The radio will shut off at this point. This process should take 5 to 30 seconds.
- Once the vehicle has been auto detected by the interface, the L.E.D. will turn on solid Green, and the radio will come back on, indicating programming was successful.
- Test all functions of the installation for proper operation, before reassembling the dash. If the interface fails to function, refer to Resetting the AXDIS-FD1.

Note: The L.E.D. will turn on solid **Green** for a moment, and then turn off under normal operation after the key has been cycled.

ADJUSTMENTS (SONY/THX ONLY)

Audio level adjustment:

- With the vehicle and radio turned on, turn the volume up 3/4 of the way.
- With a small flat-blade screwdriver, adjust the potentiometer clockwise to raise the audio level: counterclockwise to lower the audio level.
- Once at a desired level, audio level adjustment is complete.

EXTRA FEATURES

RSE, SAT and SYNC:

 If the vehicle is equipped with rear seat entertainment, satellite radio or SYNC, the AXDIS-FDI can retain these features.

Note: Most Ford radios have SAT built in, so this feature is lost if so.

- Change the source of the radio to AUX-IN; SYNC audio will start playing if SYNC has been activated.
- The display in the factory screen, or the optional AX-LCD (sold separately) will display the SYNC information.
- Listed below are the functions of the AX-LCD while using satellite radio or SYNC:
 - Arrow up—Channel up (only in SAT or USB mode)
 - Arrow down—Channel down (only in SAT or USB mode)
 - Enter—Selects current item on the screen
 - Return/ESC—Exits to the previous screen
- To access RSE or SAT, press and hold the MEDIA button on the steering wheel for 2 seconds. This will
 switch to the next source available. Each time the MEDIA button is pressed for 2 seconds the source
 will change. The sequence of sources are; SYNC/RSE/SAT. To temporarily disable SYNC/ RSE/SAT, press
 and hold the MEDIA button for 3 seconds. To turn it back on, press the MEDIA button for 2 seconds. The
 factory screen, or the AX-LCD will provide a visual confirmation of which source is active.

STEERING WHEEL CONTROL SETTINGS

L.E.D. feedback

The (18) **Red** L.E.D. flashes represent what brand radio the AXDIS-FD1 believes it is connected to. Each flash represents a different radio manufacturer. For example, if you are installing a JVC radio, the AXDIS-FD1 will flash (5) times. Following is a legend that dictates which manufacturer corresponds to which flash.

L.E.D. feedback legend

1 flash - Eclipse (Type 1) † 10 flashes - Clarion (Type 2) † 2 flashes - Kenwood ‡ 11 flashes - Metra OE 3 flashes - Clarion (Type 1) † 12 flashes - Eclipse (Type 2) † 4 flashes - Sony / Dual 13 flashes - I.G. 5 flashes - IVC 14 flashes - Parrot ** 6 flashes - Pioneer / Jensen 15 flashes - XITE 7 flashes - Alpine * 16 flashes - Philips 8 flashes - Visteon 17 flashes - TRD 9 flashes - Valor 18 flashes - JBL

- Note: If the AXDIS-FD1 flashes Red (7) times, and you do not have an Alpine radio connected to it, that means the AXDIS-FD1 does not detect a radio connected it. Verify that the 3.5mm jack is connected to the correct steering wheel jack/wire in the radio.
- ** Note: Part number AXSWCH-PAR is required (sold separately). Also, the Parrot radio must be updated to rev. 2.1.4 or higher through www.parrot.com.
- * Note: If you have a Clarion radio and the steering wheel controls do not work, change the radio type to the other Clarion radio type; same for Eclipse. The following section explains how to do this.
- ‡ Note: If you have a Kenwood radio and the L.E.D. feedback comes back as showing as a JVC radio, change the radio type to a Kenwood. The following section explains how to do this.

Continued on the next page

STEERING WHEEL CONTROL SETTINGS (CONT)

Attention: The Axxess Updater App can also be used to program the following (3) sub-sections as well, pending that the interface has been initialized and programmed.

Changing radio type

If the LED flashes do not match the radio you have connected, you must manually program the AXDIS-FD1 to tell it what radio it is connected to.

- After (3) seconds of turning the key on, press and hold the Volume-Down button on the steering wheel until the L.E.D. in the AXDIS-FD1 goes solid.
- Release the Volume-Down button; the L.E.D. will go out indicating we are now in Changing Radio Type mode.
- Refer to the Radio Legend to know which radio number you would like to have programmed.
- Press and hold the Volume-Up button until the L.E.D. goes solid, and then release. Repeat this step for the desired radio number you have selected.
- Once the desired radio number has been selected, press and hold the Volume-Down button on the steering wheel until the L.E.D. goes solid. The L.E.D. will remain on for about (3) seconds while it stores the new radio information.
- **6.** Once the L.E.D. goes off, the Changing Radio Type mode will then end. You can now test the steering control wheel controls.

Note: If at any time the user fails to press any button for a period longer than (10) seconds, this process will abort.

Radio legend

1. Eclipse (Type 1)	7. Alpine	13. LG
2. Kenwood	8. Visteon	14. Parrot
3. Clarion (Type 1)	9. Valor	15. XITE
4. Sony/Dual	10. Clarion (Type 2)	16. Philips
5. JVC	11. Metra OE	17. TBD
6 Pioneer/lensen	12 Eclipse (Type 2)	18 IRI

Remapping the steering wheel control buttons

Let's say you have AXDIS-FD1 initialized and you want to change the button assignment for the steering wheel control buttons. For example, you would like Seek-Up to become Mute. Follow the steps below to remap the steering wheel control buttons:

1. Ensure the AXDIS-FD1 is visible so you can see the L.E.D. flashes to confirm button recognition.

Tip: Turning the radio off is recommended.

- Within the first twenty seconds of turning the ignition on, press and hold the Volume-Up button on the steering wheel until the L.E.D. goes solid.
- Release the Volume-Up button, the L.E.D. will then go out; The Volume-Up button has now been programmed.
- Follow the list in the Button Assignment Legend to reference the order in which the steering wheel control buttons need to be programmed.

Continued on the next page



STEERING WHEEL CONTROL SETTINGS (CONT)

Note: If the next function on the list is not on the steering wheel, press the Volume-Up button for (1) second until the L.E.D. comes on, and then release the Volume-Up button. This will tell the AXDIS-FDI that this function is not available and it will move on to the next function.

5. To complete the remapping process, press and hold the Volume-Up button on the steering wheel until the L.E.D. in the AXDIS-FD1 goes out.

Button assignment legend

1. Volume-Up	10. Band
2. Volume-Down	11. Play/Enter

3. Seek-Up/Next 12. PTT (Push to Talk) *

 4. Seek-Down/Prev
 13. On-Hook *

 5. Source/Mode
 14. Off-Hook *

 6. Mute
 15. Fan-Up **

 7. Preset-Up
 16. Fan-Down **

 8. Preset-Down
 17. Temp-Up **

 9. Power
 18. Temp-Down **

Not applicable if the vehicle is equipped with SYNC

** Not applicable in this application

Note: Not all radios will have all of these commands. Please refer to the manual provided with the radio, or contact the radio manufacturer for specific commands recognized by that particular radio.

Dual assignment instructions (long button press)

The AXDIS-FD1 has the capability to assign (2) functions to a single button, except Volume-Up and Volume-Down. Follow the steps below to program the button(s) to your liking.

Note: Seek-Up and Seek-Down come pre-programmed as Preset-Up and Preset-Down for a long button press.

- Turn on the ignition but do not start the vehicle.
- 2. Press and hold down the steering wheel control button that you want to assign a long press function to for about (10) seconds, or until the L.E.D. flashes rapidly. At this point release the button; the L.E.D. will then go solid.
- **3.** Press and release the Volume-Up button the number of times corresponding to the new button number selected. Refer to the Dual Assignment Legend. The L.E.D. will flash rapidly while the Volume-Up button is being pressed, and then go back to a solid L.E.D. once released. Go to the next step once the Volume-Up button has been pressed the desired number of times.

Caution: If more than (10) seconds elapses between pressing the Volume-Up button, this procedure will abort, and the L.E.D. will go out.

4. To store the long press button in memory, press the button that you assigned a long press button to (the button held down in Step 2). The L.E.D. will now go off indicating the new information has been stored.

Note: These steps must be repeated for each button you would like to assign a dual purpose feature to. To reset a button back to its default state, repeat Step 1, and then press the Volume-Down button. The L.E.D. will go out, and the long press mapping for that button will be erased.

Continued on the next page

STEERING WHEEL CONTROL SETTINGS

(CONT

Dual assignment legend

1.	Not allowed	6.	ATT/Mute	11.	Play/Enter	15.	Fan-Up *
2.	Not allowed	7.	Preset-Up	12.	PTT	16.	Fan-Down *
3.	Seek-Up/Next	8.	Preset-Down	13.	On-Hook	17.	Temp-Up *
4.	Seek-Down/Prev	9.	Power	14.	Off-Hook	18.	Temp-Down *
	Mode/Source	10.	Band				

^{*} Not applicable in this application

TROUBLESHOOTING

Resetting the AXDIS-FD1

- 1. The **Blue** reset button is located inside the interface, between the two connectors. The button is accessible outside the interface, no need to open the interface.
- **2.** Press and hold the reset button for two seconds, and then let go to reset the interface.
- **3.** Refer to the **Programming** section from this point.



Having difficulties? We're here to help.



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



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

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