

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 (ex. butt-connectors, bell caps, etc.)
- Small flat-blade screwdriver

APPLICATIONS

See inside front cover

Data Interface with SWC

Fits Select Ford Models 2006-2022

Visit AxxessInterfaces.com for up-to-date vehicle specific applications.

INTERFACE FEATURES

- Designed for non-amplified and amplified systems, including Sony®/THX®
- 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 SYNC® and satellite radio if equipped
- Retains RSE (rear seat entertainment)
- Retains balance & fade, excluding Sony®/THX®
- Retains the factory AUX-IN jack
- Micro "B" USB updatable

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Product Info



For **Dash Disassembly Instructions**, refer to metraonline.com. Enter the year, make, and model of the vehicle in the **Vehicle Fit Guide** for **Radio Install kits**.

TABLE OF CONTENTS

Applications	2
Connections	3-5
For models without a Sony/THX amplifier	3
For models with a Sony/THX amplifier	4
3.5mm jack steering wheel control retention	5
Installation	5
Programming, Adjustments	6
Extra Features	7
Steering Wheel Control Settings	8-11
LED Feedback	8
Changing Radio Type	9
Remapping	9-10
Dual Assignment Instructions	11
Troubleshooting	12

ATTENTION: With the key out of the ignition, disconnect the negative battery terminal before installing this product. Ensure that all installation connections, especially the air bag indicator lights, are plugged in before reconnecting the battery or cycling the ignition to test this product.
NOTE: Refer also to the instructions included with the aftermarket radio.

APPLICATIONS

Ford

Edge (NAV).....	2009-2010
Edge (Non-NAV).....	2009-2010
Edge.....	2007-2008
Escape.....	2008-2012
E series (w/AM/FM/CD/SYNC).....	2014-2020
Expedition.....	2007-2013
F-150 (Base).....	2013
F-150.....	2009-2014
F-250/350/450/550 (Base).....	2016

Ford (cont)

F-250/350/450/550.....	2011-2016
F650/750 (w/CD).....	2016-2022
Focus.....	2008-2011
Fusion.....	2010-2012
Mustang.....	2008-2014
Lincoln	
MKS.....	2009-2011
MKT.....	2010-2012
MKX/MKZ.....	2007-2012

Navigator.....	2007-2010
Zephyr.....	2006

Mazda

Tribute.....	2008-2011
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Mercury

Mariner.....	2008-2011
Milan.....	2010-2011

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

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 radio's manual if in doubt as to where the 3.5mm jack goes.

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 THE AXDIS-FD1

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

1. Start the vehicle.
2. Connect the **AXDIS-FD1 harness** to the wiring harness in the vehicle.
3. The LED will initially turn on solid **Green**, then turn off for a few second while detecting the radio.
4. The LED will then flash **Red & Green** in different patterns (see chart) indicating which radio is connected to the interface, and then turn off for a couple of seconds. Pay close attention to the **RED & Green** LED pattern. This will help in troubleshooting, if need be. Refer to the **LED Feedback** section for more information.
5. After a couple seconds the LED will turn on solid **Red** while the interface auto detects the vehicle. The radio will shut off at this point. The process should take 5 to 30 seconds.
6. Once the vehicle has been auto detected by the interface, the LED will turn on solid **Green**, then the radio will come back on, indicating that programming was successful.
7. Test all functions of the installation for proper operation, before reassembling the dash. If the interface fails to function, refer to the **Troubleshooting** section.

Note: The LED will turn on solid **Green** for a moment, 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-FD1** can retain these features.
Note: *Most Ford radios have SAT built in, if so, this feature is lost.*
- 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

RADIO	LED PATTERN	
Pioneer/Jensen	G	
JVC	R	
KENWOOD	GG	 
SONY/DUAL	GR	 
Reserved for future use	RG	 
ALPINE	RR	 
ALPINE (type 2)	GGG	  
AXXERA	GGR	  
AXXERA (type 2)	GRG	  
MAGNADYNE	GRR	  

- 1) If the LED pattern shows **JVC**, but a **JVC** radio isn't installed, change the radio type to Kenwood. Refer to the **Changing Radio Type** document.
- 2) If the LED pattern shows **Alpine**, but an **Alpine** radio isn't installed, make sure the 3.5mm jack is plugged into the radio.
- 3) If no SWC, change the radio type to the opposite radio type. Refer to the **Changing Radio Type** document.

RADIO	LED PATTERN	
BOSS	RGG	  
Reserved for future use	RGR	  
CLARION (type 1)	RRG	  
CLARION (type 2)	RRR	  
Reserved for future use	GGGG	   
Reserved for future use	GGGR	   
Reserved for future use	GGRG	   
Reserved for future use	GGRR	   
Reserved for future use	GRGG	   
Reserved for future use	GRGR	   
Resistive Radio #1	GRRG	   
Resistive Radio #2	GRRR	   
Resistive Radio #3	RGGG	   
Resistive Radio #4	RGGR	   
Resistive Radio #5	RGRG	   
Resistive Radio #6	RGRR	   

STEERING WHEEL CONTROL SETTINGS: CHANGING RADIO TYPE

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

1. After (3) seconds of turning the key on, press and hold the Volume-Down button on the steering wheel until the LED in the **AXDIS-FD1** goes solid.
2. Release the Volume-Down button; the LED will go out indicating the interface is in Changing Radio Type mode.
3. Refer to the Radio Legend to know which radio number you would like to have programmed.
4. Press and hold the Volume-Up button until the LED goes solid, and then release. Repeat this step for the desired radio number you have selected.
5. Once the desired radio number has been selected, press and hold the Volume-Down button on the steering wheel until the LED goes solid. The LED will remain on for about (3) seconds while it stores the new radio information.
6. Once the LED goes out, 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.

Flash Count Radio Legend		
1 PIONEER/JENSEN	10 MAGNADYNE	19 Reserved
2 JVC	11 BOSS	20 Reserved
3 KENWOOD	12 Reserved	21 Resistive Radio #1
4 SONY/DUAL	13 CLARION (type 1)	22 Resistive Radio #2
5 Reserved	14 CLARION (type 2)	23 Resistive Radio #3
6 ALPINE	15 Reserved	24 Resistive Radio #4
7 ALPINE (type 2)	16 Reserved	25 Resistive Radio #5
8 AXXERA	17 Reserved	26 Resistive Radio #6
9 AXXERA (type 2)	18 Reserved	

Continued on the next page

STEERING WHEEL CONTROL SETTINGS: REMAPPING

Remapping

Once the **AXDIS-FD1** has been programmed, the button assignment for the steering wheel controls may be reassigned if so desired. For example, if the Seek-Up button is preferred to be the Mute button instead. Follow the steps below to remap the steering wheel control buttons.

1. Ensure the **AXDIS-FD1** is visible so you can see the LED flashes to confirm button recognition.

Tip: Turning the radio off is recommended.

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

Note: If the next function on the list is not on the steering wheel, press the Volume-Up button for (1) second until the LED comes on to skip that function, and then release the Volume-Up button. This will tell the **AXDIS-FD1** 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 until the LED in the **AXDIS-FD1** goes out.

Button Assignment Legend

Function #	Function	Function #	Function
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 in this application

Note: Some radios may not have these commands. Please refer to the manual provided with the radio, or contact the radio Manufacturer for specific commands recognized by that particular radio.

Continued on the next page

STEERING WHEEL CONTROL SETTINGS: DUAL ASSIGNMENT

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.*

1. 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 LED flashes rapidly. At this point release the button; the LED 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 LED will flash rapidly while the Volume-Up button is being pressed, and then go back to a solid LED 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 LED 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 LED 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 LED will go out, and the long press mapping for that button will be erased.*

Dual Assignment Legend

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

* 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 (see page 6) 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

Tech Support Hours (Eastern Standard Time)

Monday - Friday: 9:00 AM - 7:00 PM

Saturday: 10:00 AM - 5:00 PM

Sunday: 10:00 AM - 4:00 PM



**Metra recommends MECP
certified technicians**