



Ford SWC (Steering Wheel Control) and Data Interface 2020-Up

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 for non-amplified models only
- 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
- Micro-B USB updatable

Note: The AXTC-FD3 does not retain SYNC.

APPLICATIONS

Ford					
E Series	2020-Up	Escape	2020-Up	Transit	2020-Up
Eco Sport	2020-Up	F250/F350/F450/F550	2020-Up	Transit Connect	2020-Up

Product Info



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INTERFACE COMPONENTS

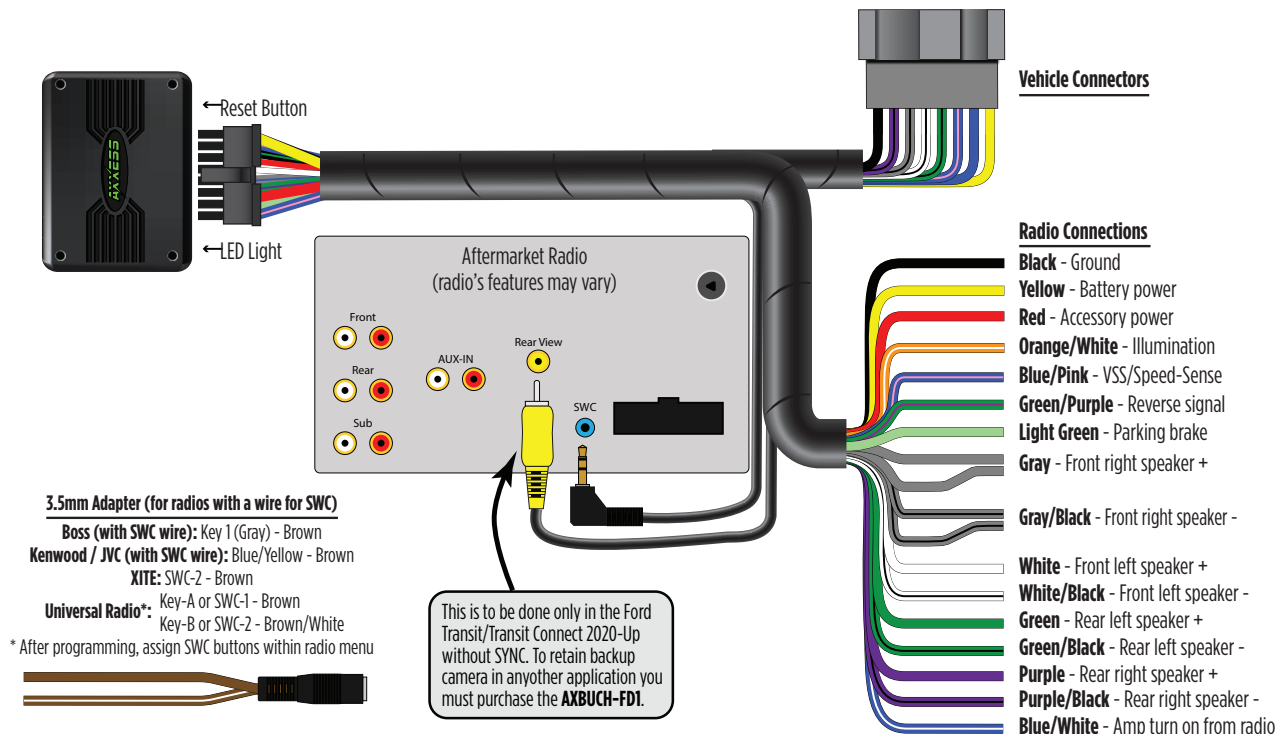
- AXTC-FD3 interface
- AXTC-FD3 harness
- 3.5mm adapter

TOOLS & INSTALLATION ACCESSORIES REQUIRED

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

ATTENTION: With the key out of the ignition, disconnect the negative battery terminal before installing this product. Ensure that all installation connections are secure before cycling the ignition to test this product.
NOTE: Refer also to the instructions included with the aftermarket radio.

CONNECTIONS



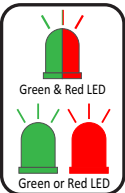
PROGRAMMING

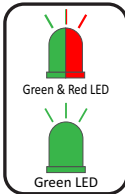
1.  Open the driver's door, and keep open during the programming process.

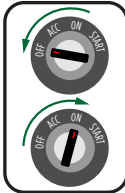
2.  Cycle the ignition on and wait (5) seconds.

3.  Connect the **AXTC-FD3 harness** to the **AXTC-FD3 interface**, and then to the wiring harness in the vehicle.

4.  Tap **Volume Up**. Locate the **Volume Up** button on the steering wheel. Program the interface by 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.

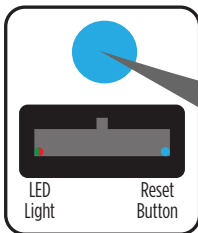
6.  The LED light will go out, then once again quickly flash **Green & Red** while the interface programs itself to the vehicle. Once programmed, the LED light will go out again, then turn solid **Green**.

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-FD3

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

Tech Support Hours (Eastern Standard Time)

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

Saturday: 10:00 AM - 7:00 PM

Sunday: 10:00 AM - 4:00 PM



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Metra recommends MECP certified technicians



AXTC-FD3
INTERFACE



SWC (Steering Wheel Control) and Data Interface

Ford **Select Models** **2012-Up**

Visit [AxxessInterfaces.com](https://www.axxessinterfaces.com) for more detailed information about the product and up-to-date vehicle specific applications.

INTERFACE COMPONENTS

- AXTC-FD3 interface
- AXTC-FD3 harness
- 3.5mm adapter

INTERFACE FEATURES

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- Micro-B USB updatable

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APPLICATIONS

Ford

E Series	2021-Up
Eco Sport	2020-Up
Escape	2020-Up
F250/F350/F450/F550	2020-Up
Transit	2020-Up
Transit Connect	2020-Up

SALES 800-221-0932

REV. 10/11/21

What Fits My Vehicle? See the Vehicle Fit Guide at [AxxessInterfaces.com](https://www.axxessinterfaces.com)

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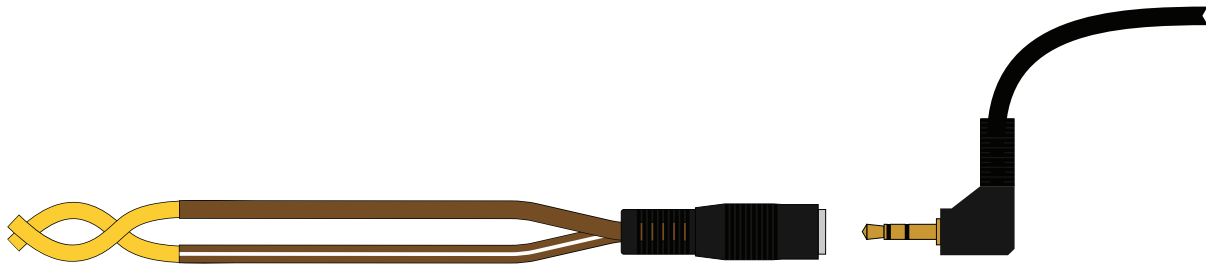


AXTC SERIES

ADVANCED PROGRAMMING

The AXTC interface can be used in vehicles without steering wheel controls to provide retained accessory power, and also to provide wires for multimedia radios (park brake / reverse / speed-sense). Follow the steps below to program the AXTC-CH5 for just these features.

1. From the 3.5mm adapter, tie the **Brown** and **Brown/White** wires together and tape up or use a connector.
2. Connect the **3.5mm adapter** to the 3.5mm jack from the **AXTC-CH5 harness**.
3. Program the AXTC-CH5 per the AXTC-CH5 instructions, page 3. Disregard steps 4 and 5.



Final LED Feedback

- At the end of programming the LED light will turn solid **Green** which indicates programming was successful.
- If the LED light turned solid **Red** instead, this means programming has failed. Reset the interface and try again.
- If still no success after resetting and reprogramming the interface, refer to the **Vehicle Troubleshooting** document for the interface. Ignore the steps referencing steering wheel controls.

LED Light	Vehicle Programming Section
Solid Green	Pass
Solid Red	Fail





AXTC SERIES

CHANGING RADIO TYPE

The AXTC interface has the capability to assign (2) functions to a single button except for **Volume Up** and **Volume Down**. This feature can be performed three different ways; through a Windows based computer using the [Axxess Updater](#), through the [Axxess Updater](#) app available from the Android/Apple mobile devices app store, or by following the steps below.

Note: Apple mobile devices will require the use of the **AX-HUB** for this feature.

Attention! If more than 20 seconds elapses between steps, the procedure will abort, and the interface's LED light will go out. The interface may not function properly and may need to be reset and reprogrammed.

1. Program the interface to the vehicle following the vehicle specific document.
2. Turn the radio off.
3. Cycle the key off, then back on.
4. Wait until the interface's light flashes **Green** one time then goes out.
5. Press and hold the **Volume Down** button on the steering wheel until the interface's light turns solid **Red**, then release. The light will then go out indicating that the interface is in **Changing Radio Type** mode.
6. Reference the **Radio Legend** for the radio number preferred.
7. Press and hold the **Volume Up** button on the steering wheel until the interface's light turns solid **Red**, then release. Radio number 1 has now been programmed. Repeat this step for the desired radio.
8. Once the desired radio has been selected, press and hold the **Volume Down** button on the steering wheel until the interface's light turns solid **Red**. The light will remain solid **Red** for 3 seconds while it stores the new radio information. After the light goes out, turn the radio on and test the steering control wheel controls.

Radio Legend

Radio Brand	Radio Number
Pioneer / Jensen	1
Boss (type 1) / Dual / Sony	2
Kenwood	3
JVC	4
Alpine	5
Boss (type 2)	6
Clarion (type 1)	7
Clarion (type 2)	8
Boss (type 3)	9
Insane Audio	10
Magnadyne	11

Radio Brand	Radio Number
Visteon / Boss (type 4)	12
JBL	13
Eclipse (type 1)	14
Eclipse (type 2)	15
Philips	16
XITE	17
Parrot	18
Valor	19
LG	20
Kicker	21
Axxera	22





AXTC SERIES

DUAL ASSIGNMENT (LONG BUTTON PRESS)

The AXTC interface can assign (2) functions to a single button except for **Volume Up** and **Volume Down**. This feature can be performed three different ways; through a Windows based computer using the **Axxess Updater**, through the Axxess Updater app available from the Android/Apple mobile devices app store, or by following the steps below.

Notes:

- a) **Seek Up** and **Seek Down** come pre-programmed as **Preset Up** and **Preset Down** for a long button press.
- b) Apple mobile devices will require the use of the **AX-HUB** for this feature.

Attention! If more than 10 seconds elapses between steps, the procedure will abort, and the interface's light will go out. The interface may not function properly and will need to be reset and reprogrammed.

1. Program the interface to the vehicle following the vehicle specific document.
2. Turn the radio off.
3. Cycle the key off, then back on.
4. Wait until the interface's light flashes **Green** 1 time then goes out.
5. Press and hold the desired SWC button for dual assignment for 10 seconds (or until the interface's light flashes rapidly **Green**), then release. The light will turn solid **Green** indicating the interface is in **Dual Assignment** mode.
6. Reference the **Dual Assignment Legend**. Press and release the **Volume Up** button on the steering wheel the number of times related to the desired feature for a long button press.
7. Press and release the SWC button from step 5. The interface's light will go out indicating the information has been stored to memory.
8. Repeat from step 5 to select another SWC button for dual assignment.
9. To reset an SWC button back to its default state, repeat steps 3 and 4, then press and release the **Volume Down** button on the steering wheel. The AXTC-1's light will go out, and the dual assignment feature for that button will be erased.

Dual Assignment Legend (Long Button Press)

Feature Desired	Volume Up Presses
Volume Up *	1
Volume Down *	2
Seek Up / Next	3
Seek Down / Previous	4
Mode / Source	5
ATT / Mute	6
Preset Up	7
Preset Down	8
Power	9

Feature Desired	Volume Up Presses
Band	10
Play / Enter	11
PTT	12
On Hook	13
Off Hook	14
Fan Up *	15
Fan Down *	16
Temp Up *	17
Temp Down *	18

* Not applicable in this application



Overall LED Feedback

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

Radio LED Feedback

Radio	LED Pattern	Keynotes (reference below)
Pioneer / Jensen		
Boss (type 1) / Dual / Sony		3 (Boss)
Kenwood		1
JVC		
Alpine		2
Boss (type 2)		3
Clarion (type 1)		3
Clarion (type 2)		3
Boss (type 3)		3
Insane Audio		
Magnadyne		
Visteon / Boss (type 4)		3 (Boss)
JBL		
Eclipse (type 1)		3
Eclipse (type 2)		3
Philips		
XITE		
Parrot		4
Valor		
LG		
Kicker		
Axxera		

- 1) If the LED pattern shows **JVC**, 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.
- 4) **AX-SWC-PARROT** required (sold separately). The software in the radio must be rev. 2.1.4 or higher.





AXTC SERIES

RADIO TROUBLESHOOTING

If the AXTC interface's LED light didn't go out at the end of the radio programming sequence, or showed the wrong radio installed*, follow the steps below to trace down where the problem may lie. The final LED feedback light will also flash **Red** slowly or turn solid **Red**, instead of turning solid **Green**. If any of the following steps are performed, reset and reprogram the interface per the vehicle specific document. Take note where SWC is worded means Steering Wheel Control.

* Reference the **Radio LED Feedback** table at the end of this document.

Is the
3.5mm jack
connected?

The 3.5mm jack from interface should be plugged into the **SWC Input** from the radio. Make sure it isn't plugged into the **Bluetooth Mic** or **AUX Input**. If unsure which input to use, refer to the manual provided with the radio, or contact the radio Manufacturer.

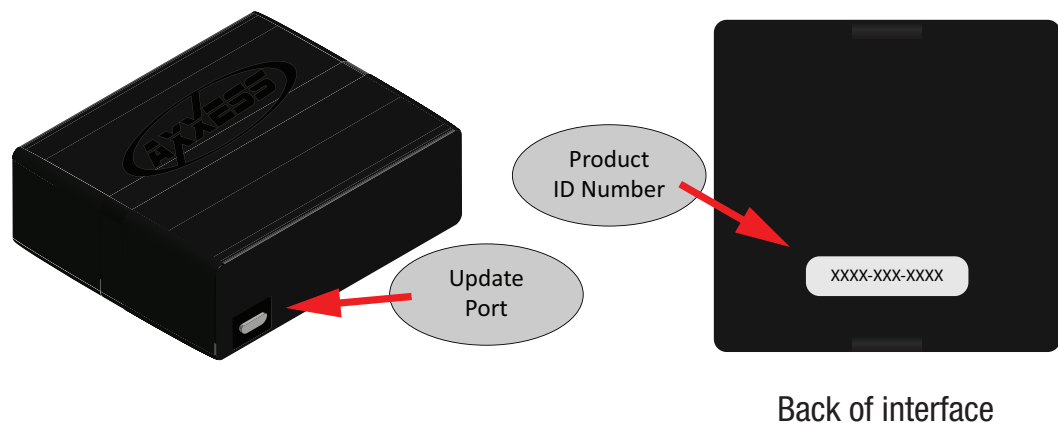
Note: Some radios use a wire an for SWC instead

Was the
correct
radio type
detected?

Reference the **Radio LED Feedback** table. Boss, Clarion, and Eclipse have different radio types and the wrong radio type may have been auto detected. Reference the **Changing Radio Type** document to change the radio type. Also refer to the radio specific troubleshooting steps on the following page.

Update
the
interface

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



Continued on the next page



Radio
Specific
Troubleshooting

Alpine

1. Unplug the 3.5mm jack from the radio, reset and reprogram the interface, then plug the 3.5mm jack back into the SWC input labeled **REM**.
2. Some Alpine radios have a feature that changes SWC* from the back to the front, and vice-versa. If the radio has this feature, make sure SWC is on the rear setting. If the setting is on the rear, turn it to the front, then back to the rear.

* Labeled **remote** in the **Alpine** manual

Kenwood

1. Make sure the interface's LED feedback shows **Kenwood**. If it shows **JVC** instead, reference the **Changing Radio Type** document to change the radio type to **Kenwood**.
2. If the interface's LED feedback shows **Alpine**, this could mean the wrong wire used from the radio, or a bad 3.5mm jack. **Kenwood** radios use a **Blue/Yellow** wire for SWC. If the radio is connected properly, remove the **3.5mm Adapter** and wire the radio directly to the interfaces's "skinny" **Red** wire within the 3.5mm jack.
3. Some **Kenwood** radios have a feature called **Remote Sensor** which disables SWC. If the radio has this feature, make sure it's turned on. If it's turned on, turn it off, then back on.

Parrot

1. **AX-SWC-PARROT** (sold separately) is required. The software in the radio must be rev. 2.1.4 or higher.

Pioneer / Sony

1. If the SWC buttons are out of order, this could be caused by the 3.5mm jack not be seating properly, or residue on the contacts. Clean the contacts, then plug the 3.5mm jack firmly back into the radio. Add a stress loop on the cable to prevent the 3.5mm jack from slipping out.
2. If anything is prohibiting the 3.5mm jack from seating all the way in such as a heatsink, lightly trim away some of the plastic from the 3.5mm jack as needed.
3. SWC input for **Pioneer** is labeled **W/R**. SWC input for **Sony** is a blue 3.5mm input labeled **REMOTE**.

General Radio (with wire for SWC)

1. Make sure the correct wire is used from the 3.5mm Adapter.
 - a) **Brown** is for Key-A or SWC-1.
 - b) **Brown/White** is for Key-B or SWC-2*

* Disregard if not applicable



3.5mm Adapter

2. Make sure SWC is programmed within the radio menu. Refer to the manual provided with the radio, or contact the radio Manufacturer for any questions regarding this process

Continued on the next page



Radio LED Feedback

Radio	LED Pattern	Keynotes (reference below)
Pioneer / Jensen		
Boss (type 1) / Dual / Sony		3 (Boss)
Kenwood		1
JVC		
Alpine		2
Boss (type 2)		3
Clarion (type 1)		3
Clarion (type 2)		3
Boss (type 3)		3
Insane Audio		
Magnadyne		
Visteon / Boss (type 4)		3 (Boss)
JBL		
Eclipse (type 1)		3
Eclipse (type 2)		3
Philips		
XITE		
Parrot		4
Valor		
LG		
Kicker		
Axxera		

- 1) If the LED pattern shows **JVC**, 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.
- 4) **AX-SWC-PARROT** required (sold separately). The software in the radio must be rev. 2.1.4 or higher.

