



INSTALLATION INSTRUCTIONS FOR PART INSTFRST-2

FRST-2 Ford RSE/SYNC/THX Retention Interface 2012-up

APPLICATIONS

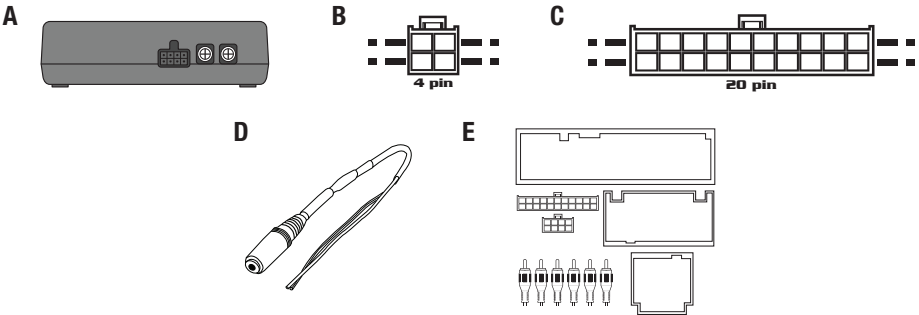
See inside front cover

KIT FEATURES

- Provides accessory (12-volt 10-amp)
- Retains R.A.P. (Retained Accessory Power)
- Used in amplified or non-amplified systems
- Provides NAV outputs (parking brake, reverse, mute, and V.S.S.)
- ASWC included
- Retains SYNC/OE Bluetooth
- USB updatable
- Retains Sony/THX sound systems

INTERFACE COMPONENTS

- A) FRST Interface
- B) 4-pin harness with stripped leads
- C) 20-pin harness with stripped leads
- D) Female 3.5mm connector with Brown and Brown/White wires
- E) 22-pin to Ford 24- and 26-pin harness



TOOLS REQUIRED

- Cutting tool
- Crimping tool
- Tape
- Connectors (example: butt-connectors, bell caps, etc.)



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REV. 6/21/2012



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Applications

(Note: The factory screen and Metra's 99-5827 must be plugged in to complete FRST-2 programming and testing.)

FORD

Fiesta	2011-up
Focus	2012-up

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Caution: Metra recommends disconnecting the negative battery terminal before beginning any installation. All accessories, switches, and especially air bag indicator lights must be plugged in before reconnecting the battery or cycling the ignition.

Note: Refer also to the instructions included with the aftermarket radio.



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Connections to be made

1. From the 20-pin harness:

- Connect the **Red** wire to the ignition/accessory wire of the aftermarket radio.
- Connect the **Orange/White** wire to the illumination wire of the aftermarket radio. If the aftermarket radio has no illumination wire just tape off the **Orange/White** wire.
- Connect the **Blue/White** wire to the amp turn on wire of the aftermarket radio.
- Connect the **Brown** wire to the mute wire of the aftermarket radio. If the aftermarket radio does not have a Mute wire, tape up the **Brown** wire.
- The **Black/Yellow** wire will not be used in this application.

For non-amplified systems:

- Connect the **White** wire to the left front positive speaker output of the aftermarket radio.
- Connect the **White/Black** wire to the left front negative speaker output of the aftermarket radio.
- Connect the **Gray** wire to the right front positive speaker output of the aftermarket radio.
- Connect the **Gray/Black** wire to the right front negative speaker output of the aftermarket radio.

Disconnect the 4-pin harness located between the 24- & 26-way and 22-way connector. Connect the supplied 4-pin speaker harness and connect the following:

- Connect the **Violet** wire to the right rear positive wire of the aftermarket radio.
- Connect the **Violet/Black** wire to the right rear negative wire of the aftermarket radio.
- Connect the **Green** wire to the left rear positive wire of the aftermarket radio.
- Connect the **Green/Black** wire to the left rear negative wire of the aftermarket radio.

For amplified systems:

- Connect the **White** RCA to the left front low level output of the aftermarket radio.
- Connect the **Gray** RCA to the right front low level output of the aftermarket radio.
- Connect the **Green** RCA to the left rear low level output of the aftermarket radio.
- Connect the **Violet** RCA to the right rear low level output of the aftermarket radio.

Continued on next page



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Connections to be made

The following wires are for the aftermarket radios with built-in navigation:

- Connect the **Green** wire to the parking brake wire of the aftermarket navigation radio.
- Connect the **Blue/Pink** wire to the VSS or speed sense wire of the aftermarket navigation radio.
- Connect the **Green/Purple** wire to the reverse wire of the aftermarket navigation radio.

2. From the 22-pin harness:

- Connect the **Black** wire with the ring terminal to the back of the aftermarket radios chassis.
- Connect the 3.5mm jack to your aftermarket radios steering wheel control input (if equipped).
- **For Kenwood* radios:** Connect the SWC wire (normally **Blue/Yellow**) to the **Brown** wire of the ASWC. Isolate and tape the **Brown/White** wire, it will not be used.
*Note: Some newer Kenwood radios will auto detect as a JVC. If this is the case, you can use a 12k-ohm resistor in line between the **Blue/Yellow** and **Brown** wire of the female 3.5 mm jack during programming only. Or you can manually set the radio type which is in the radio programming section of this manual.*
- **For Eclipse* radios:** Connect the Eclipse SWC wires (normally **Brown** and **Brown/Black**) to the **Brown** and **Brown/White** wires of the ASWC. **Brown** goes to **Brown** and **Brown/White** goes to **Brown/Black**. Sometimes this is reversed, reverse the wires if needed.
- **For Metra OE* radios:** Connect SWC Key 1 wire (**Gray**) to the **Brown** wire of the ASWC. For all other radios, plug in the male 3.5 mm connector of the ASWC.

3. From the Ford 24-pin harness:

- Connect the **Yellow** wire to 12-volt constant wire of the aftermarket radio.
- Connect the **Black** wire to the ground wire of the aftermarket radio.

4. From the 8-pin RSE/SYNC/SAT RCA harness:

- Connect the **White** and **Red** RCA to the aftermarket radios AUX input.

5. From the 24-pin 3.5 RCA harness:

- Connect the **White** and **Red** RCA to the AUX input of the aftermarket radio (this is only used if vehicle is not equipped with SYNC/RSE/SAT and has the factory 3.5mm jack).

**Note: If you are using an Eclipse, Kenwood, Metra OE, or a newer JVC radio, plug the included female 3.5mm connector with the Brown and Brown/White wires into the male 3.5mm connector of the ASWC harness.*



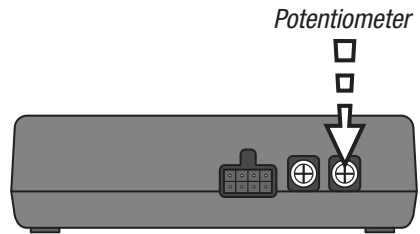
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Installing the FRST-2

1. With all the connections completed, plug the 22-pin, 20-pin, and 8-pin harnesses into the FRST.
2. Reconnect the negative battery terminal.
3. Plug the 24-pin and 26-pin Ford harnesses into the vehicle side harness, and plug the aftermarket radio harness into the aftermarket radio.
4. Cycle the key by turning the ignition on then back off, then back on again to test the radio.

Volume Adjustment

To adjust the volume, use a small screwdriver to rotate the potentiometer, located on the 8-pin harness side of the interface, closest to the edge of the board, clockwise to make the volume louder and counterclockwise to make the volume softer.



Remapping the SWC buttons

Let's say you have the FRST programmed to your vehicle and your radio and you want to change the button assignment for the steering wheel controls. For instance you would like "Seek Up" to be "Mute".

This process is the same as manually programming the FRST (please refer to the Manual Programming section) with a couple of notes:

- The FRST must have detected the vehicle and radio it is attached to before you can remap any buttons.
- You can only start the remapping of the steering wheel controls process within the first 20 seconds of turning the ignition key on. If you wait longer than the 20 seconds you will have to turn the ignition off then back on again.
- Within the first 20 seconds if any button other than "Volume Up" or "Volume Down" is pushed, the remapping process will stop.
- If during the remapping process no button is pushed for 30 seconds the remapping process is aborted and the original settings are reset.



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Remapping the SWC buttons

Beginning the remapping process:

1. Ideally having the FRST visible is recommended since you can see the LED flashes to confirm button recognition.
2. Turning off the radio is recommended.
3. Within the first 20 seconds of turning the ignition on, press and hold down the “Volume Up” button for at least 20 seconds.
4. The led will light up solid red. Release “Volume Up” and the LED will go out. “Volume Up” has now been programmed.
5. Follow the list below in order however pushing the steering wheel control button you want for the function* below.

1	Volume Up	7	Preset Up	13	On Hook
2	Volume Down	8	Preset Down	14	Off Hook
3	Seek Up/Next	9	Power	15	Fan Up
4	Seek Down/Prev	10	Band	16	Fan Down
5	Source/Mode	11	Play/Enter	17	Temp Up
6	Mute	12	PTT (Push To Talk)	18	Temp Down

**Note: Not all radios will have all these commands.
Please refer to the radio owner's manual.*

If you want to skip a command press the “Volume Up” on the steering wheel, this will tell the FRST to skip the command and go to the next one. For instance, the next command to be mapped is the “Volume Down” command. Let's say you want the “Mode” button on your steering wheel to be the “Volume Down” command. Hold down the “Mode” button till the LED lights up solid red, and then release it. Now the “Mode” button on the steering wheel is “Volume Down”.

6. After the last button is programmed on your steering wheel (you do not have to go through the whole list), hold down the “Volume Up” button for at least 10 seconds then the LED will go out.

--- Or ---

After the 18th button is programmed or skipped the LED will go out and remapping is completed.



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Remapping the SWC buttons

If for any reason, after remapping, you want to go back to the original steering wheel control settings perform the following steps:

1. Within the first 20 seconds of turning the ignition on. Press and hold down the original "Volume Up" button for at least 25 seconds.
2. The LED will blink rapidly
3. Release the "Volume Up" button and wait until the LED goes on solid.
4. After the LED goes off the original steering wheel control settings will be restored.

Manually setting the radio type:

This action must begin 20-seconds after the key is set to "Accessory On" position.

- Hold down "Volume Down" button for 20-seconds
- LED will begin to blink rapidly
- Press the "Volume Up" button the number associated with the desired radio type (as seen in the radio list below). The LED will remain "on" while holding down the button and will go back to blinking when released. *For example, if the radio is a JVC press the "Volume Up" button 5 times to select it.*

1	Eclipse	7	Alpine
2	Kenwood	8	Visteon
3	Clarion	9	Valor
4	Sony Dual	10	Clarion 5K
5	JVC	11	Metra OE
6	Jensen/Pioneer		

- Press the "Volume Down" button to finish. The LED will then go off.
- After a few seconds, the LED will then blink the number of times corresponding to the radio ID type. This number should be the same number the user has just pressed the "Volume Up" button.



INSTALLATION INSTRUCTIONS FOR PART INSTFRST-2

IMPORTANT WARNING

This product includes instructions for installation which must be carefully followed. The instructions are worded in such a manner to assume that the installer is capable of completing these type of electronic installations. If you are unclear as to what you are instructed to do or believe that you do not understand the instructions so as to properly and safely complete the installation *you should consult a technician who does have this knowledge and understanding.*

Failure to follow these instructions carefully and to install the interface as described could cause harm to the vehicle or to safety systems on the vehicle. Interference with certain safety systems could cause harm to persons as well. If you have any questions in this regard please call the Help line or Metra at 1-800-221-0932 for assistance.



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Metra recommends MECP certified technicians

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