





Ford Mustang (with manual climate controls) 2015–2023

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KIT FEATURES

- Factory-style hard buttons with laser etched graphics to retain and control most climate functions normally lost when removing factory radio
- Easy to use rotary knobs with LCD status displays for temp and fan speed
- Retains steering wheel functionality no need to purchase and install a separate steering wheel control interface
- Parts included for installation of Single-DIN and Double-DIN radios
- Integrated hazard button
- Painted to match the factory finish

KIT COMPONENTS

- A) Radio trim panel with tactile display B) Radio brackets C) Pocket D) Engine start/stop circuit board and cover E) Engine start/stop trim
- F) #8 x 3/8" Phillips truss-head screws (4) G) #4 x 1/2" Phillips pan-head screws (6) H) Panel clips (4) I) Blank panels (2), Heated seat buttons (L & R)
- J) USB cable Not Shown: HVAC interface and wiring harness, Antenna adapter Please visit metraonline.com or axxessinterfaces.com for more harness and interface options.



TABLE OF CONTENTS

Dash Disassembly	2-3
Kit Preparation	4-5
Kit Assembly	
-ISO DIN radio provision with pocket	6
-ISO DDIN radio provision	6
Axxess Interface installation	7-15
Final Assembly	11

WIRING & ANTENNA CONNECTIONS

Wiring Harness: Axxess interface & harness included Antenna Adapter: Included in kit

TOOLS REQUIRED

- Panel removal tool Phillips screwdriver
- 9/32" socket wrench Cutting tool
- Torx T-10 screwdriver

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.

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DASH DISASSEMBLY

- Open the passenger door and remove 1. the trim panel from the side of the dash. (Figure A)
- **2.** Open the glove box and remove the trim panel on the right side. (Figure B)
- **3.** Unclip and remove the trim/vent dash panel. (Figure C)



(Figure A)



(Figure B)







2

- **4.** Remove the rubber tray cover in front of the shifter, and then remove the (2) 9/32" screws exposed. (Figure D)
- 5. Unclip and remove the front side panels from each side of the center console. (Figure E)
- **6.** Remove the (2) 9/32" screws from each side of the center console. (Figure F)

Continued on the next page



(Figure D)







DASH DISASSEMBLY (CONT.)

- **7.** Unclip the shifter trim bezel and slightly pull it up to clear the center console trim bezel removal.
- Open the center console storage compartment. Unclip the center console trim bezel, then slide it toward the rear of the vehicle to remove it. (Figure G)

Note: The complete center console does not need to be removed, but if it is to be removed, the Push-to- Start module must be connected when testing the kit.

- **9.** Remove the plastic tray in front of the shifter.
- **10.** Remove the center plastic trim (knockout) between the power outlet and USB jack. (Figure H)



(Figure G)



(Figure H)

Ensure that the vehicle is completely off before proceeding onto the following (3) steps:

- **11.** Remove the (4) 9/32" screws securing the radio/climate control panel, and then unclip, unplug, and remove. (Figure I)
- **12.** Remove the (4) 9/32" screws securing the display screen, then unplug and remove. (Figure J)
- **13.** Remove the (4) 9/32" screws securing the radio chassis, then unplug and remove. (Figure J)

Continue to Kit Preparation



Contraction of the second seco

(Figure J)

KIT PREPARATION

1. Cut and remove the shaded area from the sub-dash to allow clearance for the aftermarket radio. (Figure A)

From the factory radio/climate control panel:

- 1. Remove the (10) T-10 Torx screws securing the plastic panel cover to the rear of the panel, and then remove. (Figure B)
- Remove the (5) T-10 Torx screws securing the circuit board, and then remove. (Figure C)



(Figure A)







- **3.** Remove the rubber button membrane from the back of the engine start/stop switch panel. (Figure D)
- **4.** Remove the engine start/stop switch panel. (Figure E)
- Press in on the (2) retaining tabs inside the power outlet to remove the inner portion, and then unsnap the outer ring and cover. (Figure F)

Continued on the next page



(Figure D)



(Figure E)



(Figure F)



KIT PREPARATION (CONT.)

To the 99-5865CH radio trim panel:

- Attach the engine start/stop trim, the engine start/stop switch panel, and then the rubber button membrane. (Figure A)
- Secure the engine start/stop circuit board and cover to the switch/cover assembly using the (6) #4 x 1/2" Phillips pan-head screws provided with this kit. (Figure B)



(Figure A)



(Figure B)

- **3.** Attach the (4) **panel clips** provided. (Figure C)
- **4.** Insert the **USB cable** into the USB slot, through the rear. (Figure D)
- 5. For models with heated seats: Clip in the heated seat buttons. (Figure E)

For models without heated seats: Clip in the **blank panels**. (Figure E)

Continue to Kit Assembly



(Figure C)



(Figure D)



(Figure E)

KIT ASSEMBLY

ISO DIN radio provision with pocket

- 1. Attach the **pocket** to the **radio brackets** using the (4) #8 x 3/8" Phillips truss-head screws provided. (Figure A)
- **2.** Remove the metal DIN sleeve and trim ring from the aftermarket radio.
- Slide the radio into the bracket/pocket assembly, and then secure it using the screws supplied with the radio. (Figure B)

Continue to Axxess Interface Installation



(Figure A)



(Figure B)

ISO DDIN radio provision

1. Attach the **radio brackets** to the radio using the screws supplied with the radio. (Figure A)

Continue to Axxess Interface Installation



(Figure A)



AXXESS INTERFACE INSTALLATION

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 the factory backup camera
- Retains balance and fade
- Micro "B" USB updatable

INTERFACE COMPONENTS

- Car side harness (LD-TSCREEN-FD3)
- HVAC interface
- HVAC harness (LD-FDHVAC)
- 16-pin harness with stripped leads (LD-2NAVAMPL)
- 12-pin backup camera harness (LD-FDCAM-12)
- 54-pin backup camera harness (LD-FD54CAM)
- Female 3.5mm connector with stripped leads (LD-SWC-F3.5)
- AUX in harness (LD-FDAUX)

TABLE OF CONTENTS

Connections to be made	8-9
Installation	
HVAC interface	
Programming	
Configuration menu	
Resetting the Interface	

TOOLS REQUIRED

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

CONNECTIONS TO BE MADE

From the 16-pin harness with stripped leads to the aftermarket radio, connect as indicated:

- Red wire to the accessory wire.
- Orange/White wire to the illumination wire. (if applicable).
- Gray wire to the right front (+) speaker output.
- Gray/Black wire to the right front (-) speaker output.
- White wire to the left front (+) speaker output.
- White/Black wire to the left front (-) speaker output.

Tape off and disregard the following wires, they will not be used in this application: Blue/White, Green, Green/Black, Purple, Purple/Black, Brown

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 (1) wire, it will not be used in this application: Brown

From the car side harness to the aftermarket radio, connect as indicated:

- Black wire to the ground wire.
- Yellow wire to the battery wire.
- Green wire to the left rear (+) speaker output.
- **Green/Black** wire to the left rear (-) speaker output.
- Purple wire to the right rear (+) speaker output.
- Purple/Black wire to the right rear (-) output.
- **Blue** wire to the power antenna wire.

Disregard the following:

• Red and White RCA's labeled FROM 3.5 & RSE/SYNC/SAT

Continued on the next page



3.5mm jack - steering wheel control retention:

The 3.5mm jack is to be used to retain audio controls on the steering wheel control.

- For the radios listed below: connect the included female 3.5mm connector with stripped leads, to the male 3.5mm SWC jack from the car side harness. 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 the **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 AX-SWC-PARROT (sold separately), and then connect the 4-pin connector from the AX-SWC-PARROT 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 into the port on the radio designated for an external
steering wheel control interface. Refer to the manual provided with the radio if in doubt as to where
the 3.5mm jack goes to.

OE Backup Camera Retention:

- Connect one side of the supplied camera retention harness to the 12-pin or 54-pin connector in the vehicle. This connector was removed from the factory 4" screen.
- Connect the two pin plug to the 14-pin AUX plug (LD-FD-AUX)
- Connect the **Yellow** RCA jack to the backup camera input from the aftermarket radio.

Backup Camera Retention Harness Applications:

- 2015-2018 12-PIN (LD-FDCAM-12)
- 2019-UP 54-PIN (LD-FD54CAM)

INSTALLATION

Climate control panel

- 1. Connect the 16-pin harness with stripped leads into Port A.
- 2. Connect the 14-pin harness with stripped leads into Port B.
- Connect the FD3 HARNESS into Port C, and then to the wiring harnesses in the vehicle. These
 harnesses are the ones removed from factory radio during Dash Disassembly, Step 13.
- 4. Port D is a Micro-B USB input for updating the Axxess interface.

HVAC INTERFACE

- 5. Connect the HVAC interface harness into the HVAC interface, and then to the wiring harnesses in the vehicle. These harnesses are the ones removed in **Dash Disassembly**, Step 11.
- Plug The 10-pin connector from the HVAC interface harness into the vehicle's engine start/ stop switch panel.
- 7. Connect the 6-pin harness from the car side harness to the HVAC interface.
- Locate the factory antenna connector in the dash and complete all necessary connections to the radio. Use the antenna adapter provided to adapt the factory antenna connector to the aftermarket radio. (refer to camera applications on page 9 for harness needed)





PROGRAMMING

- 1. Open the driver's side door, and keep it open during the programming process.
- Cycle the ignition on and wait until the climate control lights turn blue.
 Note: If the lights don't turn blue, unplug Port C from the tactile panel for several seconds, then try again.
- **3.** Test all functions of the installation for proper operation, before reassembling the dash.

FINAL ASSEMBLY

- **1.** Using the factory screws, secure the radio in the dash, then attach the **radio trim panel** provided with this kit.
- 2. Reassemble the dash in the reverse order of disassembly to complete the installation.

CONFIGURATION MENU

The buttons on the steering wheel will be used to enter, navigate, and make changes to the Configuration Menu in the kit. The display on the climate knobs will be used to view the menu.

- **1.** With the driver's door open, press and hold the **OK** button (right side), then cycle the key on.
- 2. Press the **Seek Up** and **Seek Down** buttons to toggle through the menu options available.

Refer to the **Menu Options** table for a list of options, and description of each option.

- 3. Navigate to "d o", then press the **OK** button to exit the Configuration Menu.
- 4. If no activity after 10-seconds the Configuration Menu will close.

Sub-Menu Options

Left Knob Display	Right Knob Display	Ambient lighting Color
A.L	lb	Ice Blue
A.L	Or	Orange
A.L	Sb	Soft Blue
A.L	rd	Red
A.L	Gr	Green
A.L	bL	Blue
A.L	PU	Purple

Left Knob Display	Right Knob Display	Description
A.L		Ambient Lighting
A.G		OEM Amplifier Gain
A.S.	Will display current state	Auto Stop/Start Override
r.d		Radio Detection
b.L.		Backlight
U O		Version Number of Kit
d o	n E	Done/Quit

Menu Options

OEM Amplifier Gain

Left Knob Display	Right Knob Display
A.G	0 to 30

Auto Stop/Start Override

Left Knob Display	Right Knob Display	
A.S	0.0	Disabled (no over-ride)
A.S	0.1	Enabled



CONFIGURATION MENU (CONT.)

Steering Wheel Controls

- Press the **OK** button on the steering wheel to start the auto detection process.
- 1. If the steering wheel controls don't work properly it is possible to change the radio type.
- 2. Get to the **radio type** sub menu. Rotate the right climate knob until the correct radio type is displayed on the knob display. Press the **MAX AC** button to set the new radio type.
- **3.** If the **AXSWC interface** flashes Red (7) times, and an **Alpine** radio is not installed, that means there is an open connection not accounted for. Verify that the 3.5mm jack is connected to the correct steering wheel jack/wire in the radio.
- 4. The **AXSWCH-PAR** (sold separately) is required. Also, the software in the radio must be rev. 2.1.4 or higher.
- If a Clarion or Eclipse radio is installed and the steering wheel controls do not function, change the radio to Clarion (type 2) or Eclipse (type 2) respectively. If the steering wheel controls still do function, refer to the Changing Radio Type document available at <u>axxessinterfaces.com</u>.
- If a Kenwood radio is installed and the L.E.D. feedback flashes (5) times instead of (2), manually change the radio type to Kenwood. To do this, refer to the Changing Radio Type document available at axxessinterfaces.com.

Radio Detection

Left Knob Display	Right Knob Display	Radio Manufacturer	Keynotes
r.d	1	Eclipse (Type 1)	1
r.d	2	Kenwood	2
r.d	3	Clarion (Type 1)	1
r.d	4	Boss (type 1)/Dual/Sony	1 (Boss)
r.d	5	JVC	
r.d	6	Pioneer/Jensen	
r.d	7	Alpine	3
r.d	8	Boss (type 4)/Visteon	1 (Boss)
r.d	9	Valor	
r.d	10	Clarion (Type 2)	1
r.d	11	Boss (Type 2)	
r.d	12	Eclipse (Type 2)	1
r.d	13	LG	
r.d	14	Parrot	4
r.d	15	XITE	
r.d	16	Philips	
r.d	17	Kicker	
r.d	18	JBL	
r.d	19	Insane Audio	
r.d	20	Magnadyne	
r.d	21	Boss (type 3)	
r.d	22	Axxera	
r.d	23	Axxera (type 2)	
r.d	24	Alpine (type 2)	

CONFIGURATION MENU (CONT.)

Sub-Menu Options (cont.)

Backlight

Left Knob Display	Right Knob Display	Backlight Color
b.L		No backlight
b.L	rD	Red
b.L	Or	Orange
b.L	YE	Yellow
b.L	LG	Lime Green
b.L	Gr	Green
b.L	СҮ	Cyan
b.L	BL	Blue
b.L	Pu	Purple
b.L	HP	Hot Pink

Version Number of Kit

Left Knob Display	Right Knob Display
UO	Will display current version of kit

Done/Quit

• Press the **Mode/OK** button on the steering wheel to exit the Configuration Menu.

Left Knob Display	Right Knob Display
d o	n E



INTERFACE CONFIGURATION

Resetting the interface

- Hold the "POWER" & "MAX AC" inner button on the left and right "LCD" knobs for 15 seconds.
- The LCDs will go blank and reset, causing the interface to detect the vehicle again.





Having difficulties? We're here to help.



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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

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