Installation Guide

FCTP-FT1602

Integrated Safety System

Ford Transit equipped with Non-Tow Mirrors

4.2” Radio Display Only

ECHOMASTER PRO

FCTP-FT1602
Integrated Safety System
Ford Transit - Non-Tow Mirrors

Prior to Installation

Cover all surfaces with tape or plastic protection film to protect against scratching and damage. EchoMaster is in no way responsible for any damage that may incur during installation.

This product has been validated in the vehicles listed on the application guide only.

Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure proper installation. Read entire instructions thoroughly before starting.

This document covers such items as:

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc).
- Vehicle Disassembly / Reassembly (panel removal, part storage, etc).
- Electrical Component Disassembly / Reassembly (battery disconnection, connector removal, etc).

NOTES:

Removed Parts: Inspect the vehicle and parts for any damage.

Place all removed parts on a protected surface in an area where they will not get damaged.

Connectors: When disconnecting connectors, do not pull on the wires; pull by holding the connectors.

Retains the factory reverse camera if equipped.

Illustrations are typical and may not match exact vehicle details

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Vehicle Preparation & Protection

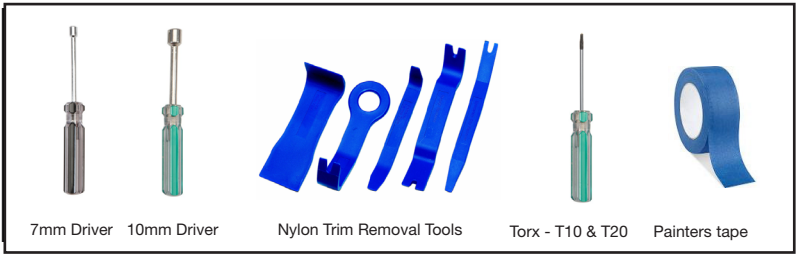
CAUTION

Consult your vehicle owner's manual to disconnect the battery. Do not disconnect ANY airbag connectors or indicators. Doing so may result in activating a diagnostic code. These codes will require the dealer to perform the reset procedure which may incur a reset fee. If you are unsure of any vehicle trim removal process consult the OEM service manual.

Removing vehicle trim panels in extreme hot and/or cold climate could result in damage. Use care when removing all vehicle trims.

Using painter's blue tape on the vehicle trim panels can help limit any scratches and/or marring. Use a nylon trim panel removal tool whenever possible.

Recommended Tools



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4.2" Radio Display Only

Removing the Radio

Step 1

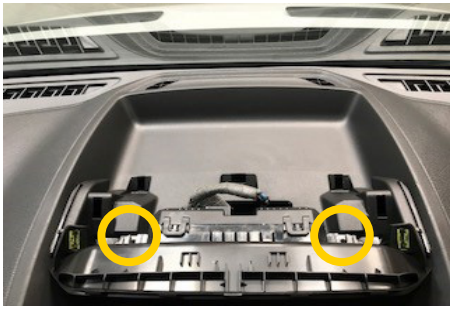
Using a nylon trim removal tool, remove the cover from behind the radio display.

There are several tabs holding the cover in place.

Press the plastic trim removal tool in between the rear cover and the front trim of the display. Pry the two pieces apart releasing the locking tabs.

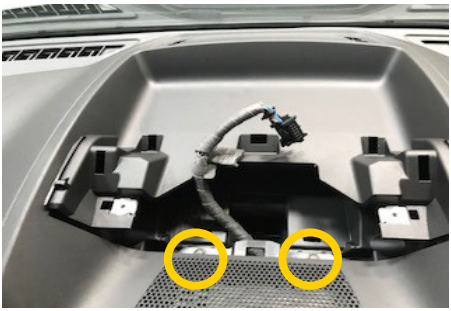
Step 2

Remove the 2 x 7mm bolts holding the radio display in the dash. Disconnect the connector from the display and pull the display straight up to remove it from the dash.



Step 3

Remove 2 x 7mm bolts from below the radio display.



⚠ PLEASE NOTE

Be sure to place all removed parts in a safe place.

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Removing the Radio - (cont'd)

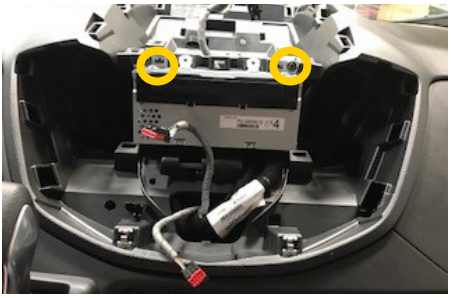
Step 4

Remove the front cover using a nylon trim removal tool. Pry the cover from the dash and remove.

Step 5

Remove the 2 x 7mm screws from the radio control panel.

Remove the radio control panel using a nylon trim removal tool.



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Removing the Dash Panel(s)

Passenger side

Step 1

Remove the cup holder by using a nylon pry tool to pry it straight up.

Remove the 3 x 7mm bolts holding the side dash panel in place.

Step 2

Remove the small cover located inside the front cup holder.

Remove the 1 x 7mm bolt holding the side dash panel in place.

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Removing the Dash Panel(s) - (cont'd)

Passenger side

Step 3

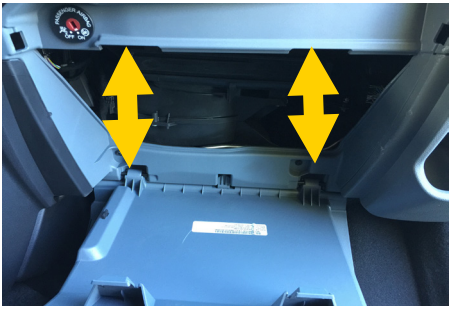
Remove the side cover and cup holder.

Step 4

Remove the glove box.

Two tabs need to be released inside the top of the glove box.

Then fold forward and lift out of the hinges located along the bottom of the glove box.



⚠ PLEASE NOTE

Be sure to place all removed parts in a safe place.

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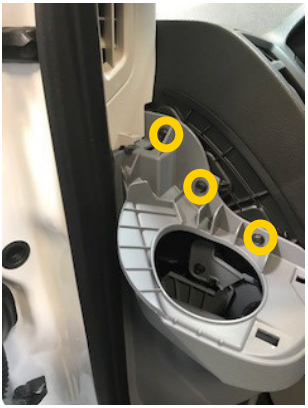
Removing the Dash Panel(s)

Driver's Side

Step 1

Remove the cup holder by using a nylon pry tool to pry it straight up.

Remove the 3 x 7mm bolts hold the side dash panel in place



Step 2

Remove the small cover located inside the front cup holder.

Remove the 1 x 7mm bolt holding the lower side dash panel in place

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Removing the Dash Panel(s) - (cont'd)

Driver's Side

Step 3

Remove the lower panel below the steering column. Pull straight back and release the 8 locking tabs holding it in place.

Step 4

Remove the lower side dash panel below the steering column.

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Removing the Dash Panel(s) - (cont'd)

Driver's Side

Step 5

Remove 2 screws holding the steering column shroud cover.

Using a nylon pry tool separate the top and bottom steering column shroud cover.

Step 6

Remove the steering column shroud lower cover, to gain acess to the turn signal switch connector.

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PLEASE NOTE

The following sections represent both sides of the vehicle. Each step will need to be done on both driver's and passenger sides.

Removing the Door Panels

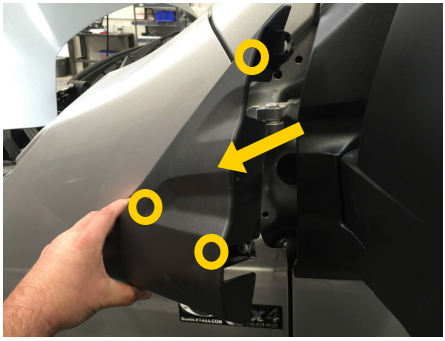
There are 8 bolts and several snap connectors holding the door panels in place.

It is only necessary to remove the door panel if the mirrors are powered or have turn signal indicators.

Removing the Sail Panels

For easier acess when routing the camera cable, remove the sail panel in front of the mirror by pulling it straight towards you.

There are 3 locking tabs holding these in place.



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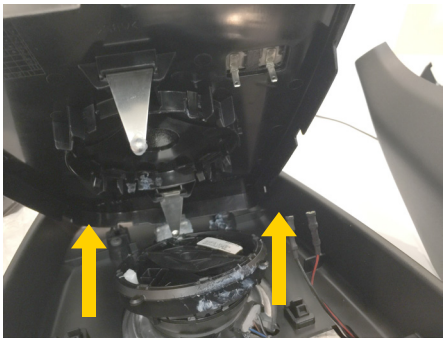
Removing the Mirrors

Step 1

Remove the mirror glass from the housing.

Start with the bottom smaller mirror. Tilt the top of the mirror inward. Place fingers underneath. Pull straight forward to release. The mirror is held in place with small snap clips around the center mount.

Repeat the same steps with the larger upper mirror.



⚠ CAUTION

Use even pressure to remove the mirror glass. The glass can shatter if not removed correctly.

Step 2

There are 6 preasure snaps and 2 x T10 torx screws holding the mirror cap in place.

Remove the 2 x T10 torx screws holding the turn signal or the blank in place.

Use needle nose pliers to gently squeeze the tabs to release the mirror cap.

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Removing the Mirrors - (cont'd)

Step 3

Remove the 3 rubber grommets from the interior door frame to access the 3 x 10mm nuts holding the mirror.

PLEASE NOTE

Be sure to protect the side of the vehicle when removing the mirrors.

Step 4

Remove the foam gasket from the mirror.

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Mounting the Camera to the Mirror Caps

Step 1

To assemble camera into the mirror caps, align the **flat edge on bottom** of the camera to mate with the **flat edge** on the mirror cap.

Step 2

Push until camera snaps into place.

⚠ PLEASE NOTE

The camera will fit very snugly when being inserted.

Routing Camera Harnesses

Step 1

Route the camera cable along the turn signal wire. (If equipped)

Route the camera cable down through the large hinge. There is a large opening the cable will come through.

⚠ PLEASE NOTE

Leave extra cable inside the mirror to allow the mirror to move.

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Routing Camera Harnesses - (cont'd)

Route the cable through the large hole in the lower corner.

Reinstall the foam gasket removed earlier.

Mounting the Camera Mirror Caps

Step 1

Once the cable is routed through the mirror, install the plastic housing.

Fold the mirror inward to install the mirror cap with the camera.

With the mirror folded inward, slide the curved portion that goes by the hinge into place while lining up the edges.

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Mounting the Camera Mirror Caps - (cont'd)

Step 2

Ensure all 6 pressure snaps are locked in place.

Reinstall the 2 x T10 torx screws to secure the turn signal or blank in place.

Reinstall the mirror glass by snapping them back on the mounts.

Use even, flat pressure to lock the mirror glass into place.

Mount the mirror on the vehicle leaving the camera cable hanging out from behind the foam.

Routing the Camera Cables

Step 1

Remove the grommet located between the mirror and the sail piece. Cut an X in the grommet to route the camera cable through.

Replace the sail once the grommet is reinstalled with the camera cable inserted.

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Routing the Camera Extension Cables

Step 1

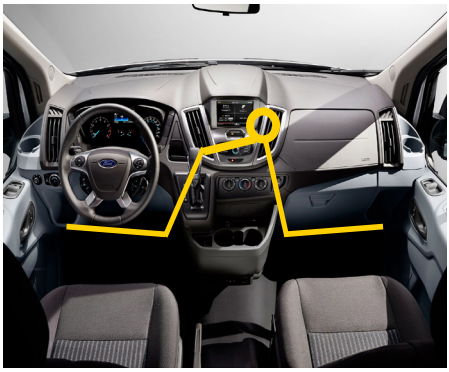
Route camera extension harnesses along the inside lower portion of the dash and up to the radio cavity.

Connect the T-harness to the radio vehicle harness and the other side to the radio.

Connect the RCAs from the MCI-FD22-HAR to the RCAs of the MB11-VS41-HAR.

Connect the camera extension cables to the left and right camera input on the MB11-VS41-HAR. Use proper orientation on the connections as to not damage the cameras.

The toggle switch is for front camera use. Refer to the P-MCI-FD22 guide.



⚠ PLEASE NOTE

If adding a front camera refer to the P-MCI-FD22 guide

Step 2

There is a small opening between the AC vent and the radio where the module will fit without interfering with the front dash panel and the AC vents.

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Routing Camera Extension Cables - (cont'd)

Step 3

Route the steering wheel connector harness (14 pin T-harness) to the steering column. Disconnect the 14 pin connector from the turn signal indicator connector. Connect the T-harness to the turn signal indicator and the other end to the vehicle harness. Avoid all moving parts secure the harness using cable ties. Reinstall the steering wheel column shroud.

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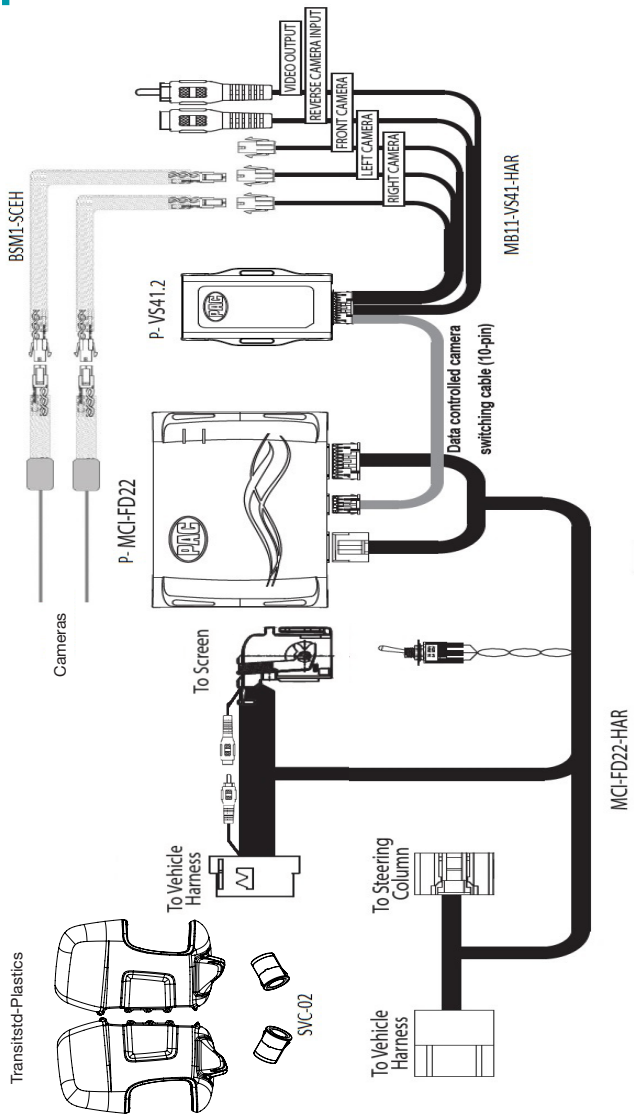
Wiring Diagram

	Part Number	Description	Qty
1	P-MCI-FD22	Main Interface Module	1
2	P-VS41.2	Switcher module	1
3	MCI-FD22-HAR	Interface Harness	1
4	MB11-VS41-HAR	Switcher Harness	1
5	BSM1-SCEH	1524mm Side Camera Extension Harness	2
6	SVC-02	Side view camera	2
7	Transitstd-Plastics	Mirror Plastics	1 (set)



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AGREEMENT: End user agrees to use this product in compliance with the instructions and terms of use above and with all State and Federal laws. EchoMaster provides instructions and safety warnings with respect to this product and disclaims all liability for any use not in conformity with those instructions or other misuse of its product. If you do not agree, please discontinue use immediately and contact EchoMaster. This product is intended for off-road use and passenger use only.

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