



PMK-FT02
Ford Transit HD Camera Package
INSTALLATION MANUAL



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PRO



Thank you for purchasing the EchoMaster Ford Transit HD Camera Package

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REQUIRED COMPONENTS:

- PMM-UN02 - HD Mirror Monitor
- MM-FTR-BRK - Ford Transit Mirror Bracket
- EM-AHD-FTCH-FGv2 - Camera with Housing
- FVMONFTRHAR - Mirror Monitor Harness
- Camera Extension Harness
- EM-AHD-FTCH-GAS - Vehicle Specific Camera Mounting Gasket



TOOLS NEEDED:



1. Plastic Trim Tool
2. Wire Fishing Tool
3. Diagonal Cutters
4. 7/64" Drill Bit or Unibit
5. 3/8" Drill Bit or Unibit
6. Phillips Bit with Bit Holder
7. 10mm Driver Bit
8. Unibit or 7/64" or 3/8" Drill Bits
9. Drill



Ford Transit HD Camera Package

INSTALLATION GUIDE

CAMERA EXTENSION HARNESS FITTING INSTRUCTIONS

Harness Routing Overview



STEP 1:

Starting at the opening in the top left (driver) side D pillar of the vehicle, insert one end of the Camera Extension Harness. Route the harness towards the front of the vehicle following the factory wire channel. See the Harness Routing Overview picture for the general path to follow.



Illustrations are typical and may not match exact vehicle detail



STEP 2:

Feed the end still hanging out of the opening in the upper left (driver side) D pillar to the opening just behind the 3rd brake light. Leave this end of the cable hanging out of the opening until you are ready to connect the camera.



STEP 3:

Route the 4 pin Mini Din connector to the front and leave it loose and exposed near the rear of the headliner above the drivers seat so that the Mini Din connector can later be connected to the monitor harness.



Illustrations are typical and may not match exact vehicle detail

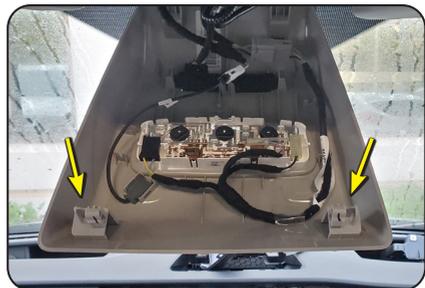
FULL VIEW MIRROR / HARNESS FITTING INSTRUCTIONS

STEP 1:

Remove the dome light housing using a plastic trim tool to push forward and release the two clips on the rear side of the front dome light panel and pop down and pull towards the rear of the vehicle. Reference the pictures below for the locations of the clips.



If the vehicle is equipped with the overhead tray, the dome light housing will be slightly different. It may be removed in a similar fashion.



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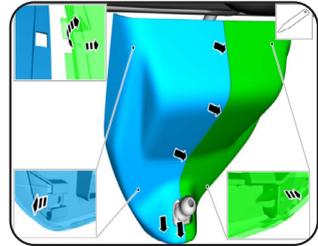
STEP 2:

Using a wire fishing tool, route the 4 pin Mini Din connector from the opening just above the dome light panel, that was dropped in the previous step, to the rear of the headliner. Leave the T-harness and 12 Pin connector side of the harness hanging from the opening above the dome light to be connected in a later step.



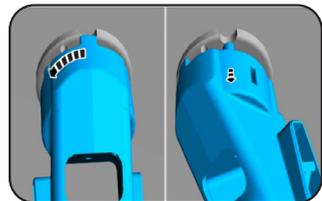
STEP 3:

Using a plastic trim tool, remove the shroud behind the rear view mirror to gain access to the wiring and prep the factory mirror for removal by removing any connectors that may be attached to it.



STEP 4:

Remove the mirror by grabbing the mirror at the base near the windshield and twisting it counter clockwise to the 10 o'clock position. Once in the 10 o'clock position, pull towards the rear to remove.



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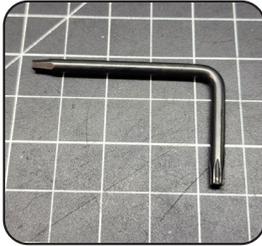
STEP 5:

Using a wire fishing tool route the 12 pin connector from where it was routed in Step 2 to behind the factory rear view mirror. Be sure to leave the 12 pin Molex T-harness in the opening behind the dome light.



STEP 6:

At this time and depending on your vehicle application, it may be necessary to install a vehicle specific mirror mount to the HD mirror monitor. Using the provided T20 torx tool or a T20 Torx hand driver, remove the universal mirror mount bracket and install the vehicle specific mirror mount bracket.



STEP 7:

Install the new mirror by starting with the top of the mirror mount at the 10 o'clock position and place it on the twist lock mount. Twist the base of the mirror until the top of the mirror is at the 12 o'clock position. You should feel the alignment tab click into place.



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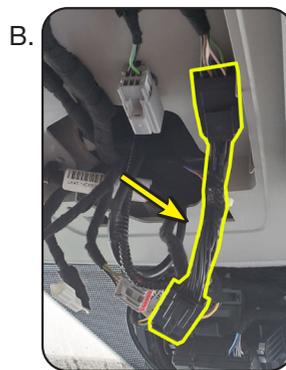
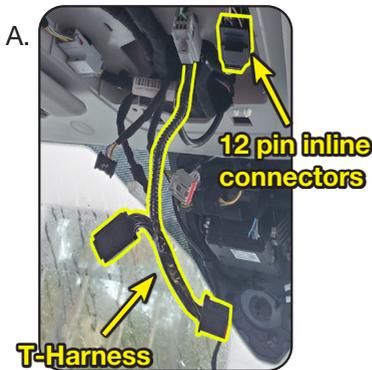
STEP 8:

Route the cable down to the mirror using the factory wire guides and connect it to the back of the mirror. Plug the connector into the back of the mirror on the passenger side.



STEP 9:

In the opening behind the front dome light, locate the factory 12 pin inline connector set (A.). Disconnect the two connectors and connect our T-harness between the two factory connectors (B.). Tuck any extra cable into the opening where the harness exits the headliner.



STEP 10:

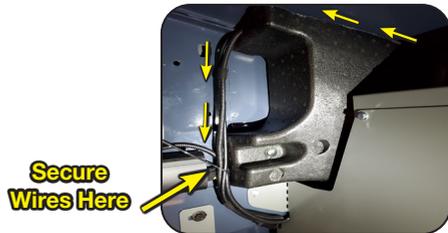
Reinstall the shroud behind the mirror and dome light housing. At this time, ensure that the flip dimmer located on the bottom of the mirror is flipped towards the passenger compartment (rear of the vehicle).



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STEP 11:

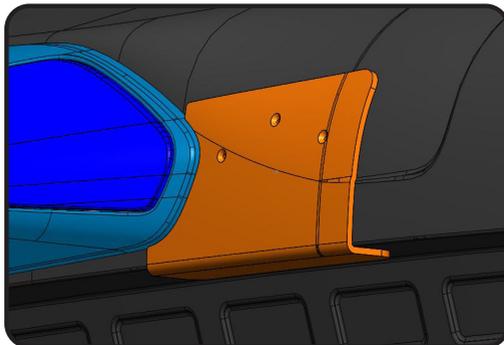
Route the opposite end of the cable with the 4 pin Mini Din connector up and over the foam block on the driver side, tucking the harness behind the foam block as you go. Secure the cables to the factory wiring at the rear edge of the foam block. Then, connect the 4 pin Mini Din connector to the Camera Extension Harness. Secure the cables along the side of the partition to the lighting harness.



HD CAMERA FITTING INSTRUCTIONS

STEP 1:

Using the EM-AHD-FTCH template found on page 13 of this manual and a marker, mark the three locations to be drilled to mount the camera. Line the notched edge of the template up against the third brake light as shown below.

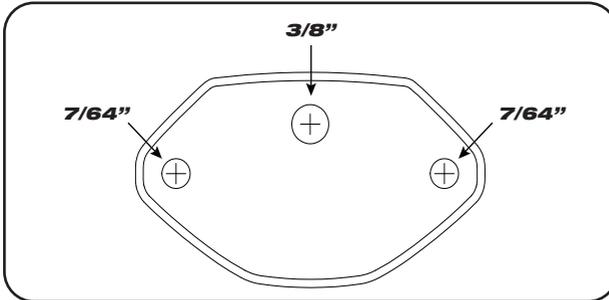


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STEP 2:

Using a standard drill bit or Unibit (step bit), drill the three holes using the diagram below for sizing reference.



STEP 3:

Route the camera cable into the vehicle and secure the camera to the vehicle with the supplied screws. Be sure to place the screw caps over the screws when finished.



STEP 4:

Connect the camera to the Camera Extension Harness hanging out of the opening (installed previously) behind the 3rd brake light.



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Operating Instructions

The vehicle ignition is required to be on for the unit to operate.

The mirror will turn on and off with the key of the vehicle. When the mirror is on, pressing the “MENU” button or flipping the flip switch at the bottom of the mirror will turn the display off and on.

Pressing either of the arrow keys on each side of the “MENU” button while the display is on will adjust the brightness. There are 20 levels of brightness, from 0 to 100, available to adjust the display to your preference.

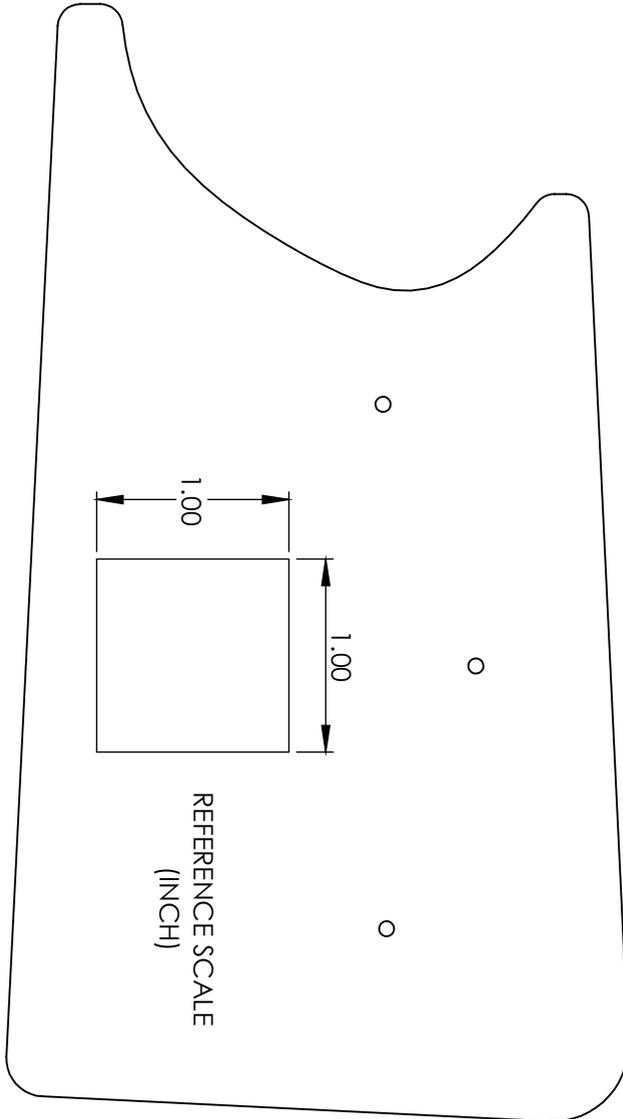
The vertical view of the camera can be adjusted in the mirror by pressing and holding the “MENU” button for 3 seconds and then pressing either of the arrow keys. There are 10 levels of adjustment, from 1 to 10, available to choose from.

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ATTENTION

PRINT THIS PAGE ACTUAL SIZE. DO NOT CHANGE THE SIZE TO FIT. CUT OUT THE TEMPLATE ALONG ITS BORDER. THE TEMPLATE IS A 1:1 RATIO





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