



PMK-RP02

RAM Promaster HD Camera Package

INSTALLATION MANUAL



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RAM Promaster HD Camera Package

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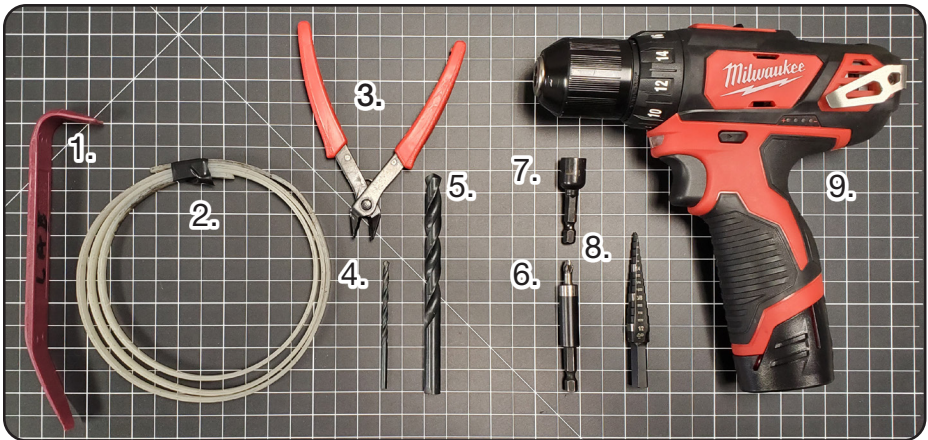
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REQUIRED COMPONENTS:

- PMM-UN02 - Mirror Monitor
- MM-RPM-BRK - Ram Promaster Mirror Bracket
- FVMONUN02HAR - Mirror Monitor Harness
- EM-AHD-FTCH-FGv2 - HD Camera with Housing
- EM-AHD-RPCH-GAS - Vehicle Specific Camera Mounting Gasket
- FVMONRPM-PWR-HAR Rev B - System Power Harness
- Camera Extension Harness



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





RAM Promaster HD Camera Package

INSTALLATION GUIDE

CAMERA EXTENSION HARNESS FITTING INSTRUCTIONS

Harness Routing Overview



STEP 1:

Start on the driver side at the upper rear most opening on the pillar. Route the end of the harness with the shorter speaker lead towards the front of the vehicle, keeping the cable in the channeling.

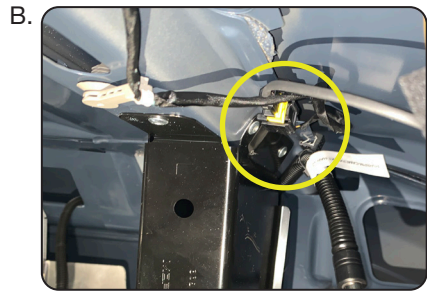
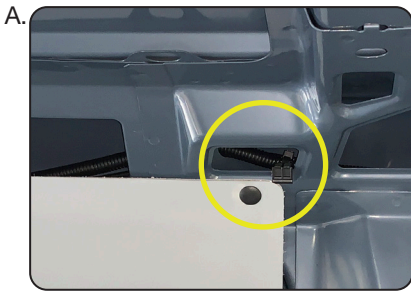


Illustrations are typical and may not match exact vehicle detail



STEP 2:

While routing the cable from rear to front, attach it to the vehicle chassis using zip ties or similar, as shown below (A.). Continue routing the cable forward and fasten it to the vehicle chassis above the driver seat shown below (B.). Route the rear portion of the harness towards the 3rd brake light and secure it to the vehicle chassis with zip ties or similar, as shown below (C.).



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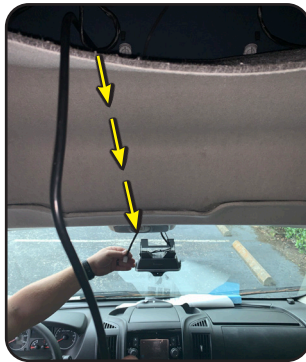




FULL VIEW MIRROR / HARNESS FITTING INSTRUCTIONS

STEP 1:

Using a wire fishing tool, route the 12 Pin connector side of the FVMONUN02HAR harness from the rear of the headliner to the front of the headliner at the windshield, just in front of the overhead courtesy light. Leave enough of the cable hanging the out by the windshield to connect to the back of the mirror.



STEP 2:

Secure the cable to the existing wire in the headliner just in front of the roof brace.



Illustrations are typical and may not match exact vehicle detail



STEP 3:

Remove the three panels down the passenger side floor line by removing the 13 Phillips head screws shown below. 4 screw covers will need to be removed to gain access to the screws below them.



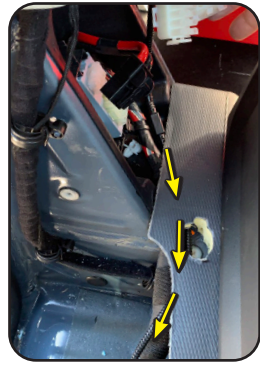
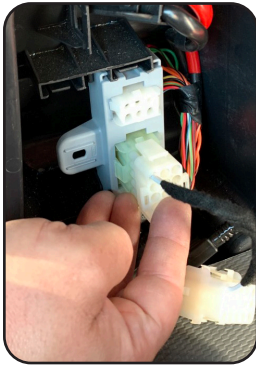
Illustrations are typical and may not match exact vehicle detail



STEP 4:

Next, we will connect and route the FVMONRPM-PWR-HAR Rev B harness. Start by connecting the Tyco 15 pin portion of the T-harness to the upfitter connector. **NOTE:** All connectors may not be used if there is not already a harness connected at this location. Locate the ring terminal that branches off this same portion of the harness and secure it to the ground lug using a 10mm nut driver.

See the images below for reference.



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STEP 5:

Locate the 2 pin connector on the FVMONRPM-PWR-HAR Rev B and route it up the B-Pillar and on top of the headliner towards the center of the vehicle to where the mirror cable was previously ran.



STEP 6:

Connect the 2 pin connector from the FVMONRPM-PWR-HAR Rev B to the mating 2 pin connector on the FVMONUN02HAR (A.). Next, connect the round 4 pin Mini Din connector from the FVMONUN02HAR harness to the mating round 4 pin Mini Din connector from the Camera Extension Harness (B.). Fasten all loose and/or extra cable to the factory wiring using wire ties.

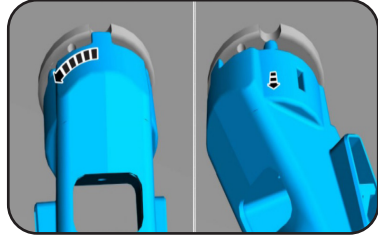


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STEP 7:

Remove the factory mirror (if equipped) 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.



STEP 8:

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 9:

Install the new mirror by starting with the top of the mirror mount at the 10 o'clock position placing 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 10:

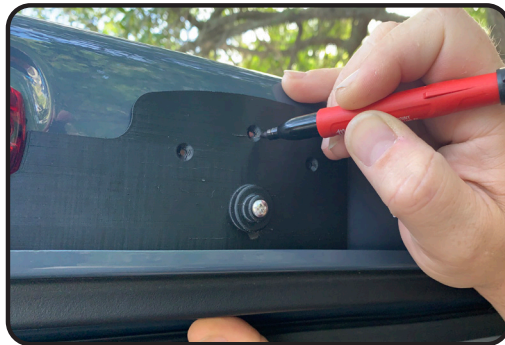
Connect the 12 pin connector to the back of the mirror. At this time, ensure that the flip dimmer located on the bottom of the mirror is flipped towards the passenger compartment (rear of the vehicle).



HD CAMERA FITTING INSTRUCTIONS

STEP 1:

Using the EM-AHD-RPCH template found on page 15 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.

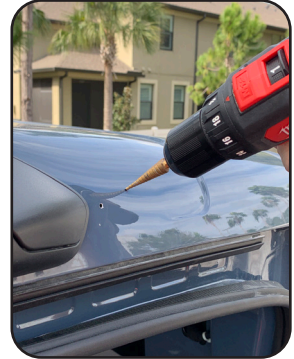
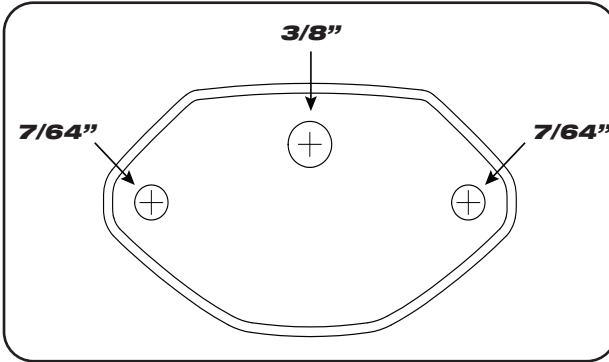


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STEP 2:

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.



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STEP 4:

Connect the Camera Extension Harness installed previously in Step 3 on page 5 of this manual to the camera connector.



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Operating Instructions

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

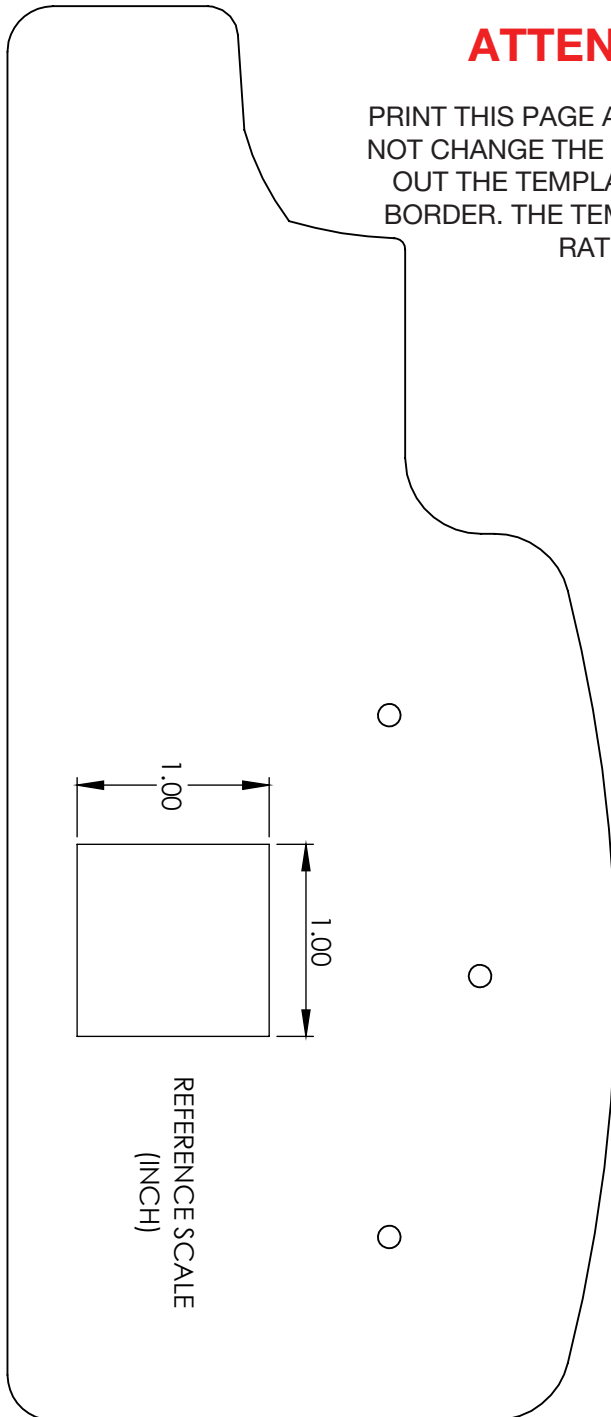
The mirror will turn on and off with the key of the vehicle. When the mirror is on, pressing the “MENU” button or flipping the flip switch at the bottom of the mirror will turn the display off and on.

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.

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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Stinger

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