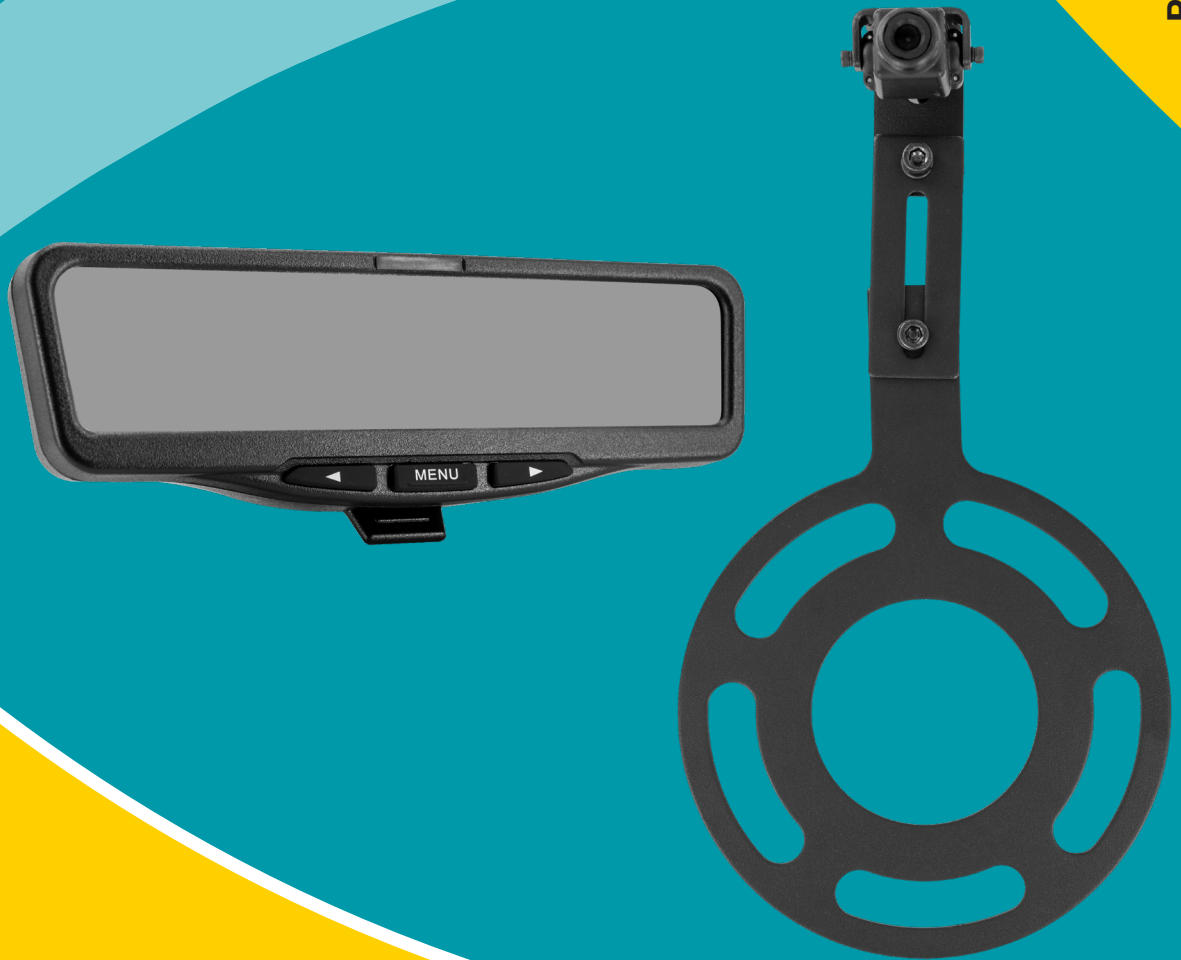


# Installation Guide

PMK-JP01



## Full View HD Mirror Kit Jeep


Compatible with Jeep Wrangler 2007 - 2020

Vehicle Specific Installation Instructions for JL/JLU Models



**ECHOMASTER**  
**PRO**


## Important


Please read and follow the instructions carefully. To emphasize special information, the symbol and the words **Warning**, **Caution** and **Note** have special meanings. Pay special attention to messages highlighted by these signal words. 

**Note:** Indicates special information to make installation easier or instructions clearer.

These instructions are designed as a guide to help make the installation of this product successful. Always use caution and ask for assistance if you are not sure how to proceed.

AAMP Global & EchoMaster are not responsible for any damage that may occur during installation or any changes to the vehicle interior.

 <b>WARNING</b>
Indicates a potential hazard that could result in a death or serious injury

 <b>CAUTION</b>
Indicates a potential hazard that could result in vehicle damage

<b>NOTE</b>
Indicates a potential hazard that could result in vehicle or equipment damage


## Vehicle Preparation & Protection

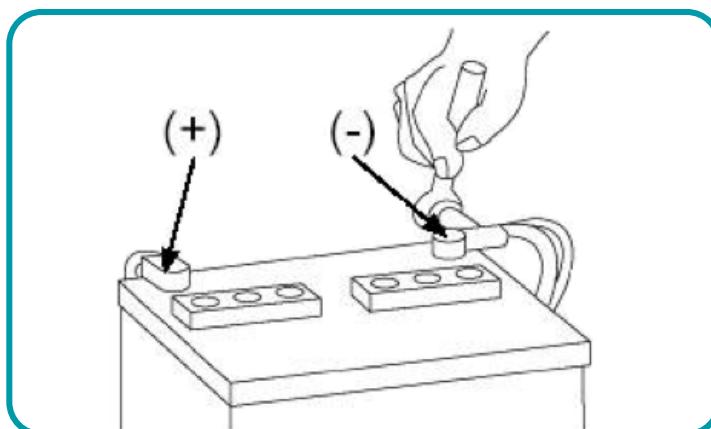
 <b>CAUTION</b>
--

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.

<b>NOTE</b>
Consult Vehicle owners guide before disconnecting negative battery cable

 <b>WARNING</b>
DO NOT TOUCH the positive terminal with any tool when removing the negative battery cable



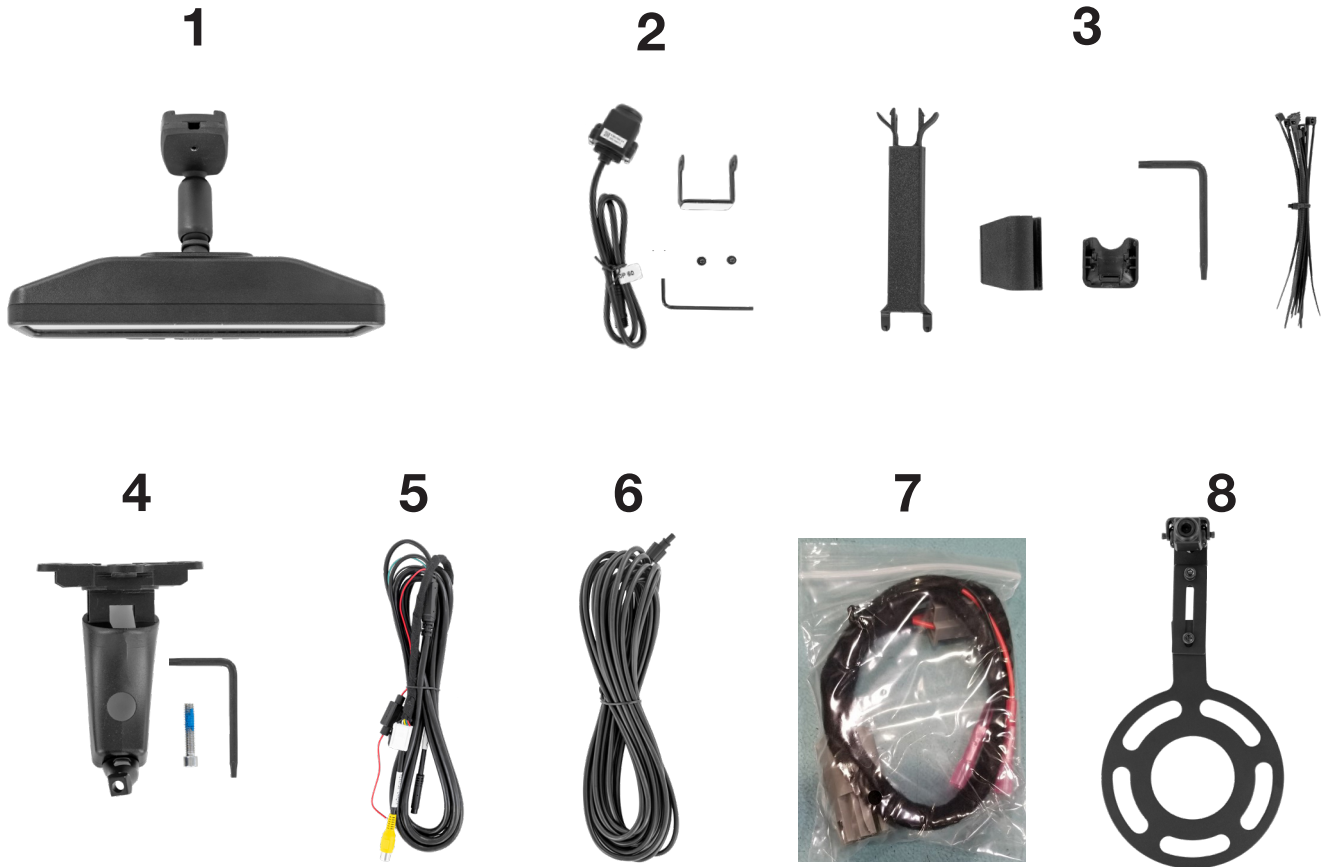
Illustrations are typical and may not match exact vehicle detail

## PMK-JP01

Jeep Full-View Mirror Kit



## What's in the box

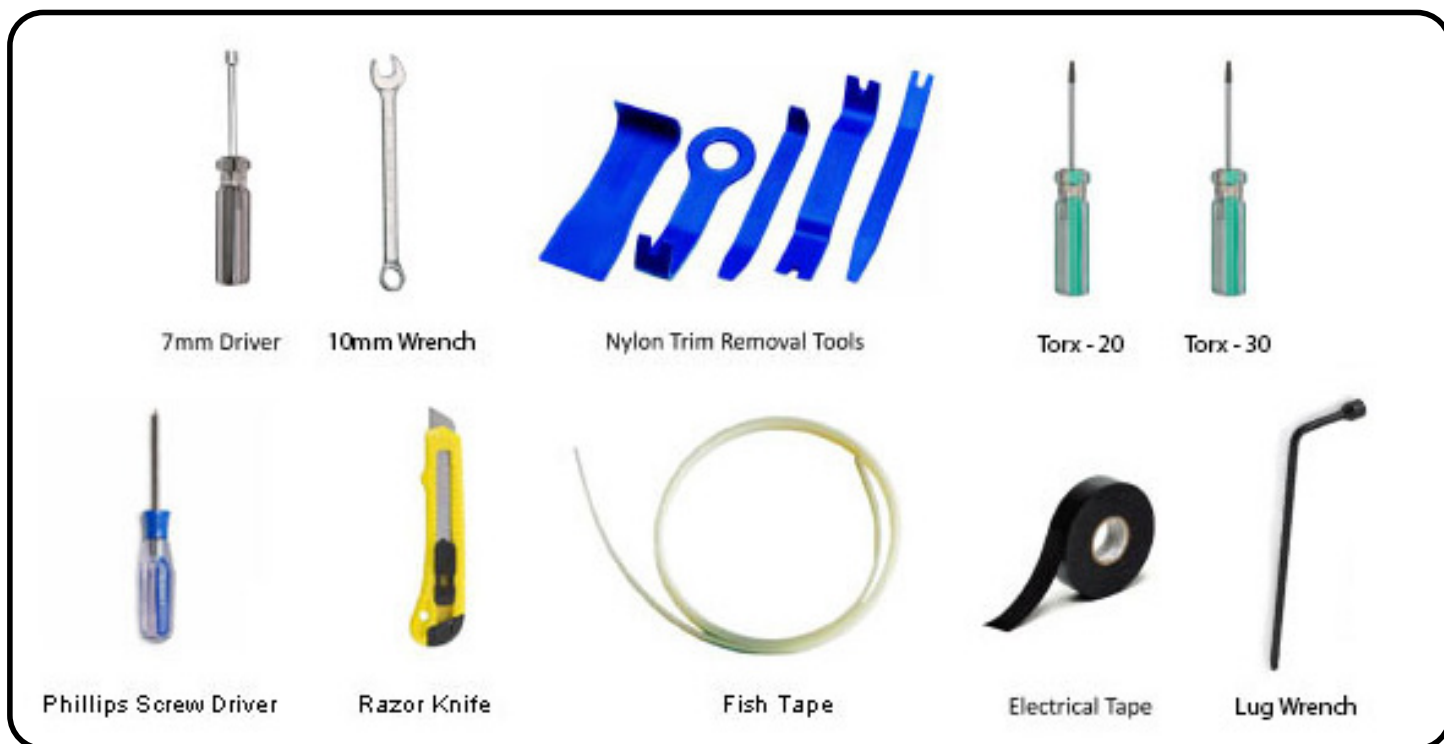


## Parts Description

PMK-JP01			
Image	Part Number	Description	Qty
1	JP01-MIRROR	Full-View HD Mirror with Universal Bracket	1
2	JP01-CAMERA	HD Camera with Universal Mount	1
3	JP01-HARDWARE	Installation Hardware Kit	1
4	JP01-JLMOUNT	JL Wrangler Specific Mount	1
5	JP01-PWR-HAR	Full-View HD Mirror Power/Input Harness	1
6	JP01-EXT-HAR	Camera Extension Harness	1
7	CIGPLUG-ACC-HAR	Vehicle Plug-n-Play Power Harness	1
8	JP3-MOUNT	Spare Tire Camera Mount for Jeep Wrangler	1

Illustrations are typical and may not match exact vehicle detail

## Tools Required



Illustrations are typical and may not match exact vehicle detail



**PMK-JP01**

Jeep Full-View Mirror Kit



# Installing the Camera and Mount

**Step 1**

Using a T40 Torx driver unlock the camera trim bezel and remove

**Step 2**

Using a lug wrench, remove the 3 lug nuts securing the spare tire to the tire carrier.

**Step 3**

Remove the spare tire from the from the tire carrier.



Illustrations are typical and may not match exact vehicle detail

## Installing the Camera and Mount (continued)

### NOTE

For Steps 4 - 7 refer to the JP3-MOUNT assembly document located in the box.

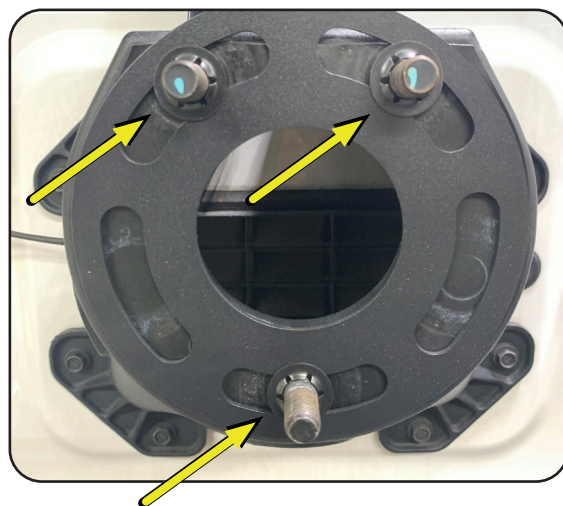
### Step 4

Place Part 2 of the JP3-MOUNT onto the lugs of the tire carrier. (Refer to the included JP3-MOUNT assembly document)



### Step 5

Secure Part 2 of the JP3-MOUNT to the tire carrier with the supplied push nut retainers.



### Step 6

Place the wheel back onto the carrier and loosely reinstall the lug nuts. At this time determine if Part 1 is needed in conjunction with Part 3 for the camera to be aligned with the desired opening in the wheel. After verifying that the neck of Part 2 is positioned in the desired location tighten the lug nuts to 40-80 ft-lbs.



Illustrations are typical and may not match exact vehicle detail

## PMK-JP01

### Jeep Full-View Mirror Kit



#### NOTE

Position the camera level and as close to center as possible. This may require removing and rotating the wheel until a usable opening in the wheel is located at or near center and adjusting the pieces of the mount to achieve the desired view.

### Step 7

Assemble the mount as needed using the supplied socket head bolts and lock washers.

#### NOTE

In our install we did not need Part 1 due to the 17" wheel and the position of the opening of the wheel.



### Step 8

Route the camera cable through the factory opening in the top of carrier and through the opening towards the passenger side.



Illustrations are typical and may not match exact vehicle detail





## Installing the Camera Extension Cable

### Step 1

Remove the trim panel on the inside of the tailgate by pulling it away from the tailgate along the top of the panel and working your way from one side to the other. A plastic trim tool may be needed for this step.

#### NOTE

Once the trim panel is removed, place in safe area to avoid damage.



### Step 2

Remove the tailgate cover on the inside of the tailgate by pulling it away from the tailgate along the top of the panel and working your way from one side to the other. A plastic trim tool may be needed for this step.

#### NOTE

Once the trim panel is removed, place in safe area to avoid damage.



### Step 3

Lift up the storage cover and remove the rear most trim panel that covers the jack.

#### NOTE

Once the trim panel is removed, place in safe area to avoid damage.



Illustrations are typical and may not match exact vehicle detail

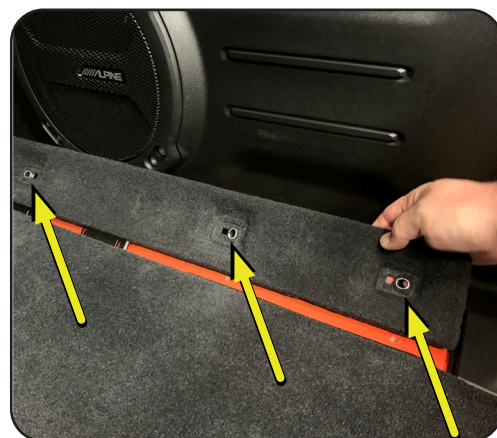
## PMK-JP01

### Jeep Full-View Mirror Kit



#### Step 4

Remove the (X3) Torx bolts securing the passenger side trim panel to the floor.



#### NOTE

For 2dr vehicles or vehicles without the subwoofer steps 5-8 may be different to remove the rear trim panel.

#### Step 5

Using a plastic trim tool pop up the plastic seatbelt guide. Slide it up the seat belt so that it is out of the way.



#### Step 6

Remove the T20 Torx bolt that fastens the rear subwoofer trim panel into place.



Illustrations are typical and may not match exact vehicle detail



## Installing the Camera Extension Cable (cont.)

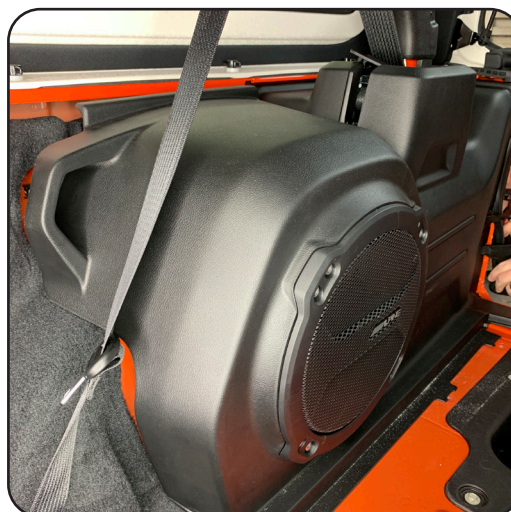
### Step 6

Release the clip located by the jack compartment by pulling up on the panel.



### Step 7

Pull the whole subwoofer assembly towards the center of the vehicle to release the clips securing it to the body of the vehicle.



### Step 8

Pull up on the seat belt assembly trim panel and set aside.



#### NOTE

Once the trim panel is removed, place in safe area to avoid damage.

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## PMK-JP01

### Jeep Full-View Mirror Kit

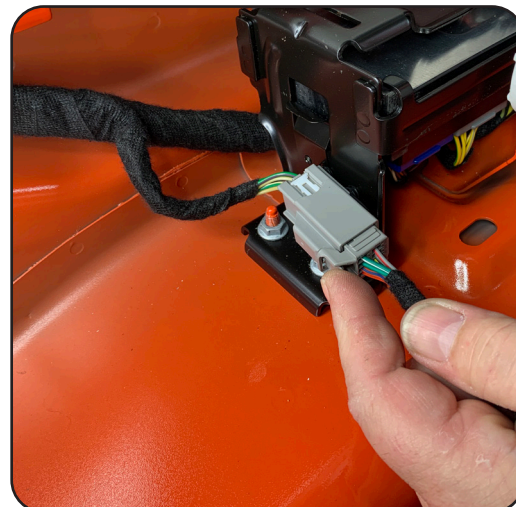


#### Step 9

Disconnect the subwoofer power harness and remove the assembly and set aside.

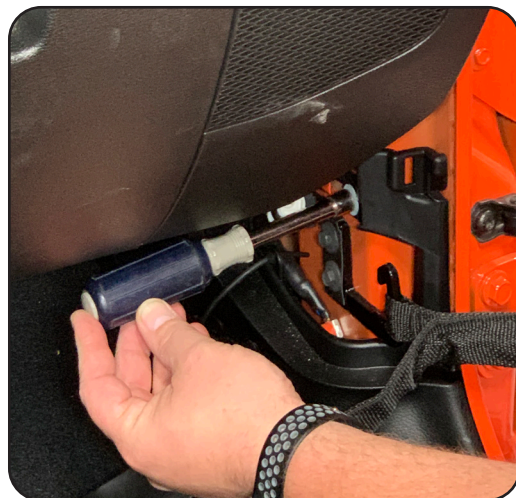
#### NOTE

Once the subwoofer assembly is removed, place in safe area to avoid damage.



#### Step 10

Remove the 10 mm nut securing the from passenger sill panel to the kick panel area.



#### Step 11

Pull up and on the door sill panel starting at the rear of the panel and remove the passenger side front door sill panel.

#### NOTE

Once the trim panel is removed, place in safe area to avoid damage.



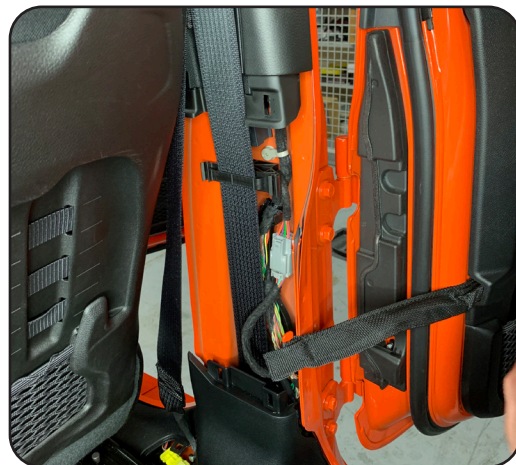
Illustrations are typical and may not match exact vehicle detail



## Installing the Camera Extension Cable (cont.)

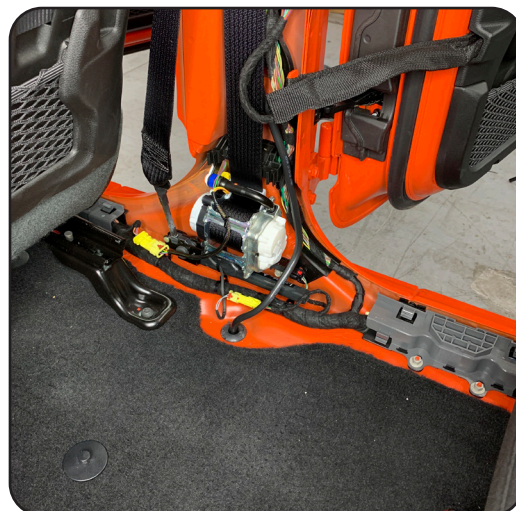
### Step 12

Remove the B-Pillar middle trim panel .



### Step 13

Remove the B-Pillar lower trim panel .



### Step 14

Remove the grommet on the passenger side of the tire carrier.



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## PMK-JP01

### Jeep Full-View Mirror Kit



#### Step 15

Using a razor knife, cut a cross in the grommet for the camera cable to pass through.



#### Step 16

using a wire fishing tool, feed the camera extension cable through the grommet hole and into the tailgate near the vent.



#### Step 17

Feed the cable into the tailgate and secure the grommet back into the opening. Be sure to leave enough cable on the outside of the tailgate and connect the camera to the camera extension cable..



Illustrations are typical and may not match exact vehicle detail



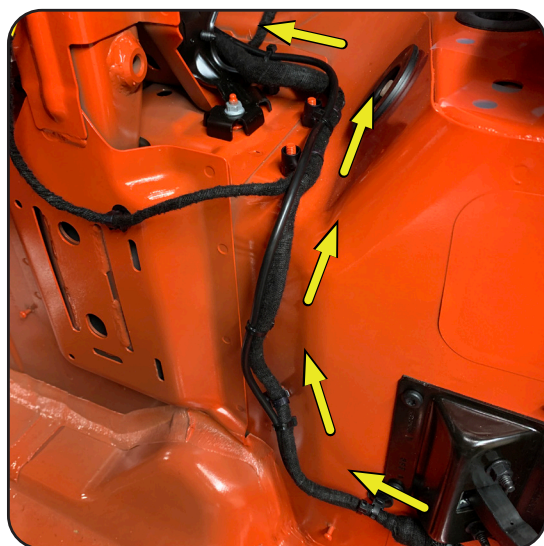
## Installing the Camera Extension Cable (cont.)

### Step 18

Route the camera extension cable towards the front of the vehicle securing it to the factory wiring.

#### NOTE

The camera extension cable must be run with and secured to the factory wiring. Failure to do this may result in damage to the camera extension cable.



Illustrations are typical and may not match exact vehicle detail

## PMK-JP01

### Jeep Full-View Mirror Kit



## Step 19

Using a plastic trim tool remove the side dash trim panel and set aside.

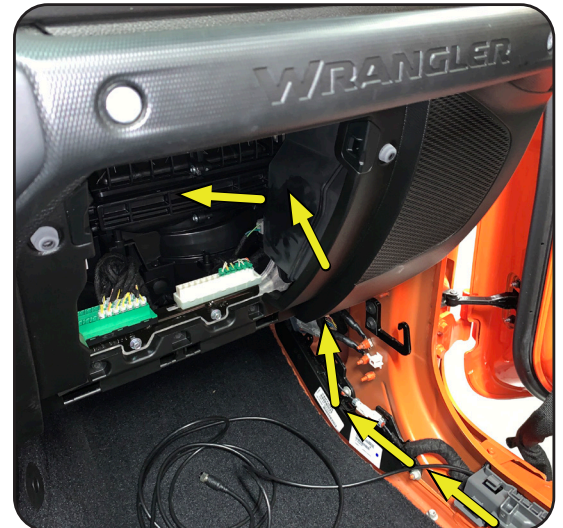
### NOTE

Once the trim panel is removed, place in safe area to avoid damage.



## Step 20

Once the cable reaches the front of the passenger compartment, remove the glove box and route the cable into the glove box cavity.



Illustrations are typical and may not match exact vehicle detail



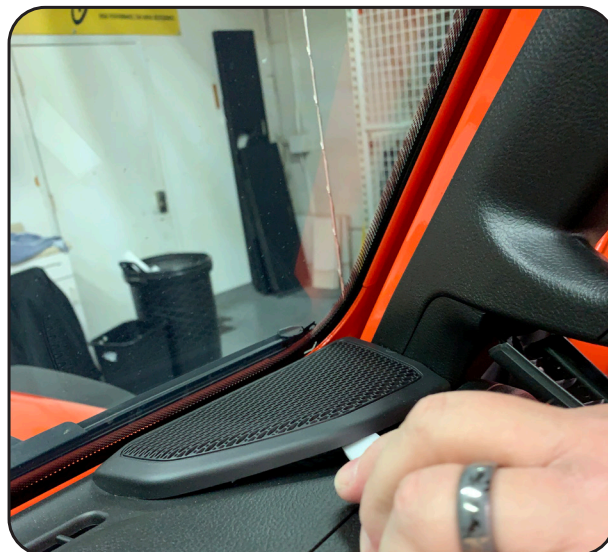
## Installing the Mirror & Mirror Power Harness

### Step 1

Using a plastic trim tool remove the upper dash speaker grill.

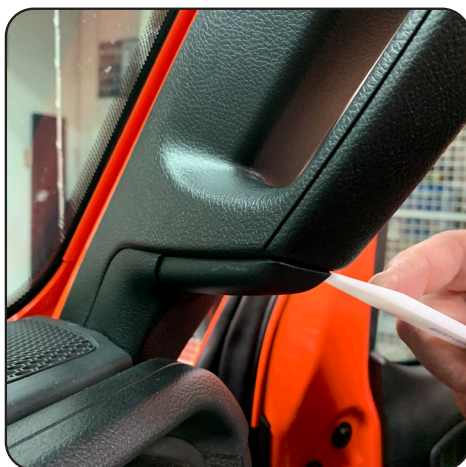
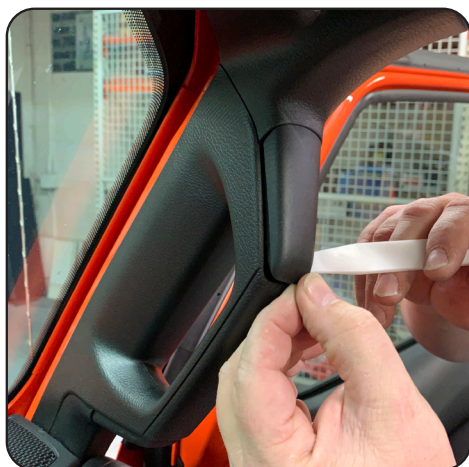
#### NOTE

Once the trim panel is removed, place in a safe area to avoid damage.



### Step 2

Using a plastic trim tool remove the fastener covers on the A-Pillar handle. Using a nut driver remove the two 10 mm bolts that secure the A-Pillar handle to the A-Pillar.



Illustrations are typical and may not match exact vehicle detail

## PMK-JP01

### Jeep Full-View Mirror Kit



#### Step 3

Grasp the handle firmly and pull towards the center of the vehicle to remove.

##### NOTE

Once the trim panel is removed, place in a safe area to avoid damage.



#### Step 4

Remove the passenger side visor by removing (X2) T20 Torx screws.

##### NOTE

Once the visor has been removed, place in a safe area to avoid damage.



#### Step 5

Remove the passenger side front roll bar trim panel by removing (X4) T20 Torx Screws and pulling the panel towards the center of the vehicle.

##### NOTE

Once the trim panel has been removed, place in a safe area to avoid damage.



Illustrations are typical and may not match exact vehicle detail



## Installing the Mirror & Mirror Power Harness (cont)

### Step 6

Remove the mirror by grabbing it by the base and twisting it counter clockwise 90 degrees. Release the clips holding the trim panel to the top of the windshield frame. Remove the smaller mirror base trim panel by releasing the clips holding it to the windshield frame. Remove the (x3) Torx bolts securing the mirror mount to the windshield frame.



### Step 7

Remove the standard mount from the mirror using a Phillips screwdriver to remove the screw securing the two together. Place the mirror base trim over the JL specific mount and secure it to the mirror using the supplied Torx bolt and tool.



### Step 8

Secure the HD Full-View mirror to the windshield frame using the (X3) factory Torx bolts removed in Step 6. Run the mirror power harness through the hole in the middle of the mirror base trim panel and secure the trim panel back into place. Connect the mirror power harness to the mirror.



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### Jeep Full-View Mirror Kit



#### Step 9

Route the mirror power harness towards the passenger side A-Pillar following the factory wiring and securing it using wire ties. Secure the windshield front upper trim panel back into place.



#### Step 10

Route the mirror power harness down the passenger side A-Pillar and secure it using wire ties.



#### Step 11

Route the cable into the dash and pull the end of the cable through the glove box opening.



Illustrations are typical and may not match exact vehicle detail

## Installing the Vehicle Power Harness

### Step 1

Using a plastic trim tool, remove the HVAC control panel. Disconnect the harnesses from the rear of the HVAC controls and the PTS button. Set HVAC control panel aside.

#### NOTE

Once the control panel is removed, place in a safe area to avoid damage.



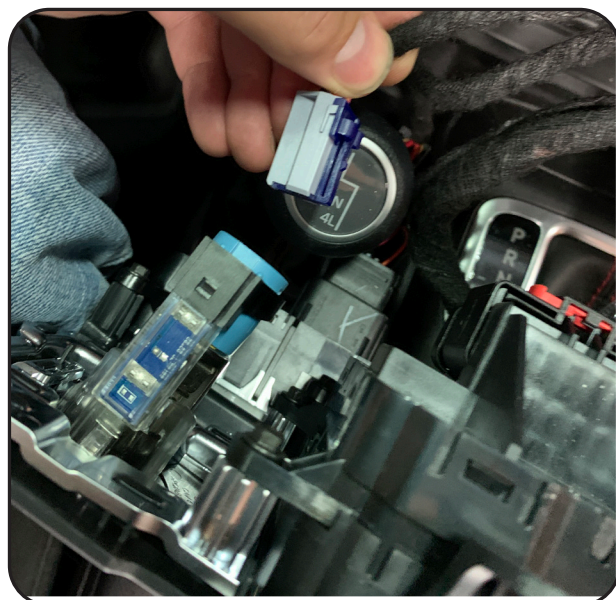
### Step 2

Remove the Phillips screw holding the accessory panel in place.



### Step 3

Release the panel from the sub dash by firmly grasping it at the top and pulling it towards the rear of the vehicle. Disconnect the power port connector by depressing the locking tab and pulling it away from the port.



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## PMK-JP01

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### Step 4

Connect the CIGPLUG-ACC-HAR harness in-line with the factory connector and the 12V Power Port. Route the end of the harness with the loose ends over to the glove box opening.



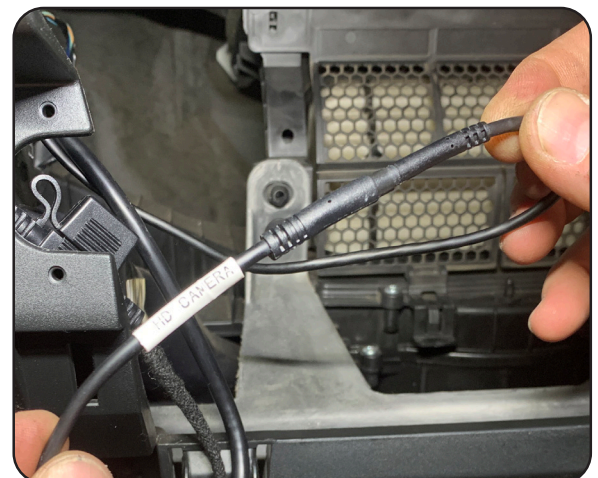
## Making the Connections

Now that all cables have been routed to the glove box area we can now start making connections.

Note: The optional reverse camera Yellow RCA and Green wire connection and will only be used when connecting a standard definition (CVBS) camera to the mirror in addition to the HD Camera.

### Step 1

Line up the arrows and connect the 4 pin mini din from the camera extension harness to the 4 pin mini din from the mirror power harness labelled VIDEO HD.

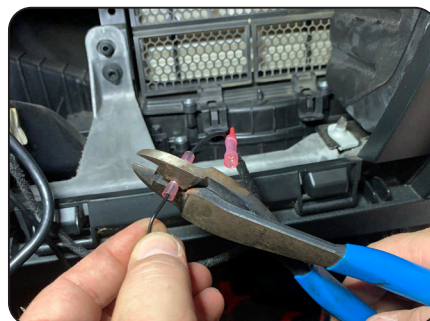
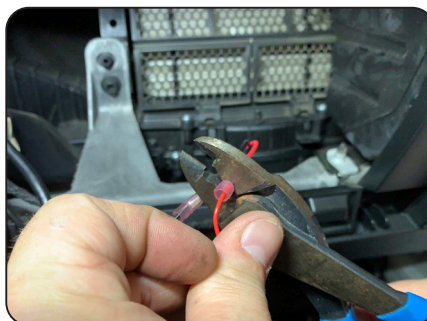


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## Making the Connections (continued)

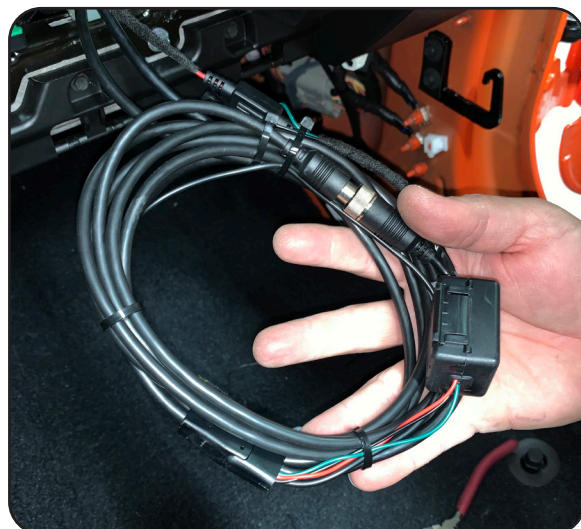
### Step 2

Using a wire crimping tool connect the red wire from the vehicle power harness to the red wire from the mirror power harness. Also, connect the black wire from the vehicle power harness to the black wire from the mirror power harness.



### Step 3

Bundle and wire tie the harnesses and excess cables together like shown in the picture.



### Step 4

Tuck the wire bundle into the dash through the glove box opening. It will fit perfectly to the left of the in-cabin air filter box. Secure any loose wires away from any moving parts and sharp edges using wire ties.



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**PMK-JP01**

Jeep Full-View Mirror Kit



# Testing

## Step 1

Verify that the flip dimmer located at the bottom of the mirror is flipped towards the rear of the vehicle.

## Step 2

Turn the ignition to the ON position,

The HD Full-View Mirror should display the camera image from behind the vehicle. Adjust the camera angle as needed.

## Step 3

If the optional camera input is being used:

Shift the vehicle into reverse or trigger the Green wire and verify that the image from the optional camera input is displayed.

Once testing has been completed the installation is complete. At this time be sure to secure all wires using the included wire ties to bundle wires, and flush cutter to remove any extra wire tie material. At this time confirm that the wires are routed safely around components inside the dash. Verify that the wires are not routed around sharp edges. Wires routed around sharp edges can be damaged or severed due to vehicle vibration. Reassemble the vehicle after the above steps have been completed.

Illustrations are typical and may not match exact vehicle detail



## Using the PMK-JP01

Turn the ignition to the on position. With the mirrors flip dimmer towards the rear of the vehicle the HD Image should be displayed on the screen. You can turn the LCD display OFF at any time by either flipping the dimmer on the bottom of the mirror towards the front of the vehicle or quickly pressing and releasing the MENU button on the mirror

### Adjusting the Vertical Position

With the ignition in the ON position and the LCD display ON press and hold the “MENU” button on the mirror for longer than 1 second. “VERTICAL POS.” will be displayed on the screen with a number after it. Using the left and right arrows on either side of the “MENU” button you can adjust the display up and down from setting 0 to 20.

### Adjusting the Display Brightness

With the ignition in the ON position and the LCD display ON use the left and right arrows on either side of the “MENU” button to adjust the display brightness up and down from setting 00 to 100.

### Changing the Display Mode

With the ignition in the ON position and the LCD display ON press and hold the “MENU” button on the mirror for longer than 1 second. “VERTICAL POS.” will be displayed on the screen with a number after it. Release the button and press and hold the “MENU” button again for longer than 1 second. “Display Mode” will then be displayed on the screen. Using the left and right arrows on either side of the “MENU” button you can change the display mode from “TAILOR” to “FULL”. Default (Recommended) is “TAILOR”.

“TAILOR” mode (Recommended) is where the full image is displayed left to right but anything above or below the vertical screen size is not displayed. This is where the adjustment of the vertical display position come into play.

“FULL” mode (NOT Recommended) is where the full image is displayed left to right and top to bottom. This will result in what looks to be a squished image top to bottom. In this mode, the vertical display position adjustment is not available.

### Using the Optional Reverse Camera Input

Connect the Yellow RCA in the mirror power harness to a CVBS (standard definition) camera. Connect the Green reverse wire in the mirror power harness to the vehicles reverse trigger wire or a toggle switch. The Reverse wire is White/Tan (White with a Tan stripe) and will be located in the passenger kick panel in the harness that routes to the rear of the vehicle.

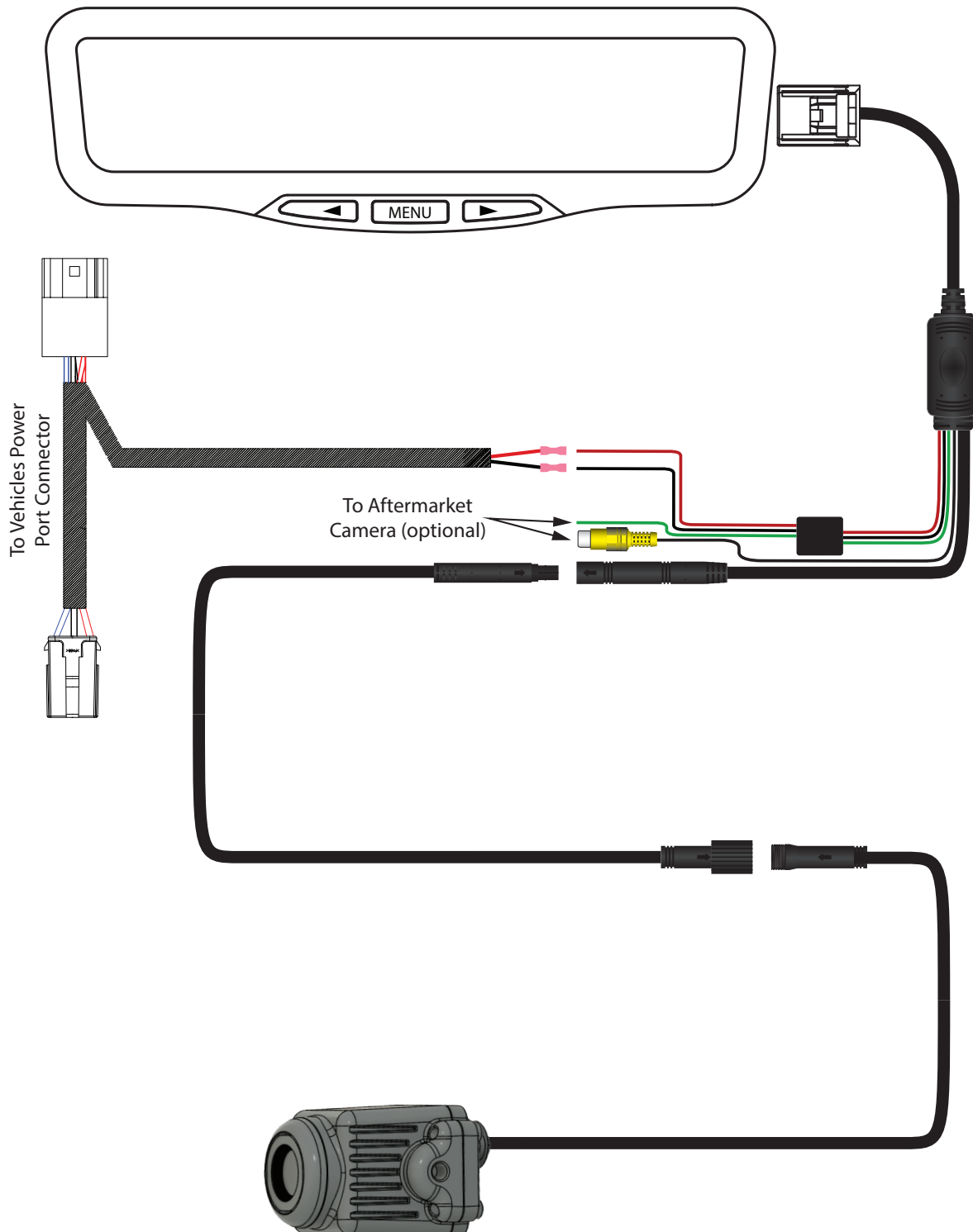
Illustrations are typical and may not match exact vehicle detail

## PMK-JP01

Jeep Full-View Mirror Kit



## System Overview



Illustrations are typical and may not match exact vehicle detail





**PMK-JP01**

Jeep Full-View Mirror Kit

Illustrations are typical and may not match exact vehicle detail

## PMK-JP01

Jeep Full-View Mirror Kit



## Notes:

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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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