

Full View HD Mirror Kit Jeep

Compatible with Jeep Wrangler 2007 - 2020 Vehicle Specific Installation Instructions for JK/JKU Models







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.



WARNING

Indicates a potential hazard that could result in a death or serious injury



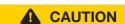
CAUTION

Indicates a potential hazard that could result in vehicle damage

NOTE

Indicates a potential hazard that could result in vehicle or equipment damage

Vehicle Preparation & Protection



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.

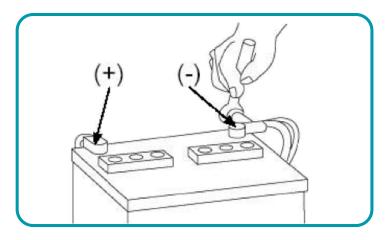
NOTE

Consult Vehicle owners guide before disconnecting negative battery cable



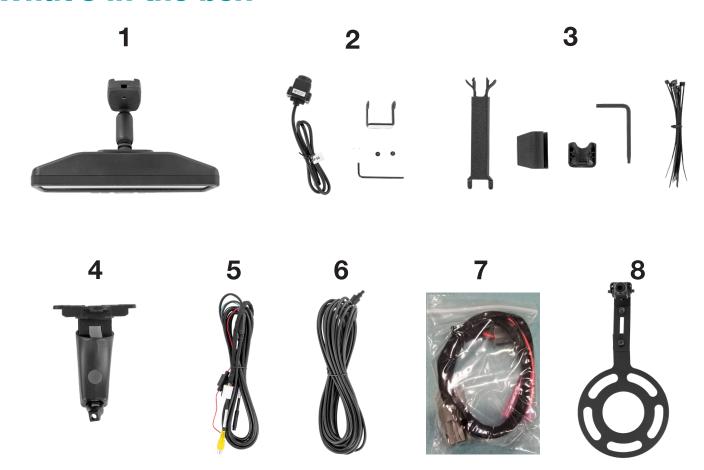
WARNING

DO NOT TOUCH the positive terminal with any tool when removing the negative battery cable





What's in the box



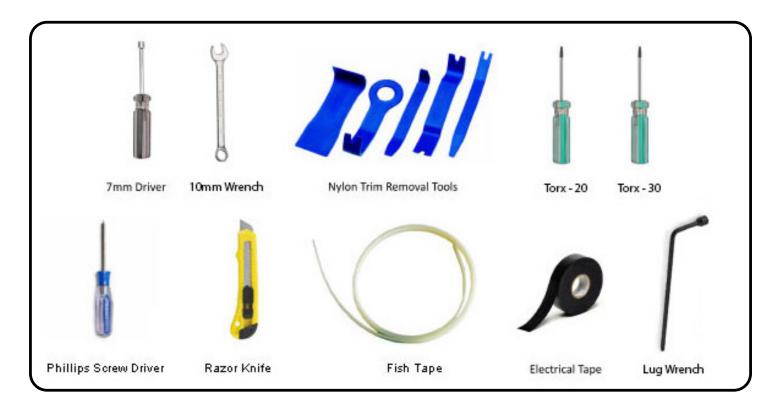
Parts Description

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





Tools Required



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Installing the Camera and Mount

Step 1

Remove the spare tire off of the tire carrier.

NOTE

For Steps 2 - 5 refer to the JP3-MOUNT assembly document located in the box.

Step 2

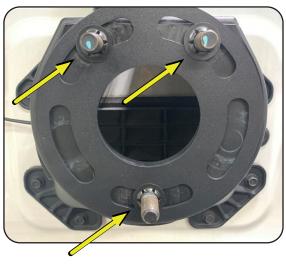
Place Part 2 of the JP3-MOUNT onto the lugs of the tire carrier. (Refer to the included JP3-MOUNT assembly document)



Secure Part 2 of the JP3-MOUNT to the tire carrier with the supplied push nut retainers. (Refer to the included JP3-MOUNT assembly document)









Installing the Camera and Mount (continued)

Step 4

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.

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 5

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 once rotated.



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Step 6

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



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 bottom 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 vent panel on the inside of the tailgate by pulling it away from the tailgate along the left side of the panel and releasing the tabs on the right side. A plastic trim tool may be needed for this step.

NOTE

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





Installing Camera Extension Cable (cont.)

Step 3

Fold up the rear passenger roll bar cover and pop up the plastic seatbelt guide using a plastic trim tool. Slide it up the seat belt so that it is out of the way.



Step 4

Using a plastic trim tool remove the back side cover from the base of the roll bar.



Step 5

Remove the 10mm nut that fastens the rear trim panel into place.



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Step 6

Remove the (2x) T30 Torx bolts that fasten the rear trim panel into place.



Step 7

With all the nuts and bolts removed, pull the rear trim panel towards the center of the vehicle to remove it.



Step 8

Prepare the passenger side door sill for removal by removing the two plastic fir tree fasteners.





Installing the Camera Extension Cable (cont.)

Step 9

Grab the passenger side door sill at the front most edge and pull it towards the middle of the vehicle to release the two fasteners. Remove the sill panel and set aside.

NOTE

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



Step 10

Remove the glove box compartment by using the handle to open it and then squeezing the sides to release the retaining posts. Once retaining post are clear of the sub dash, tilt down and pull towards the rear of the vehicle to remove.

NOTE

Once the glove box is removed, place in safe area to avoid damage.

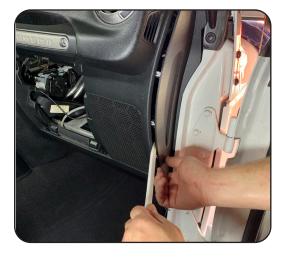


Step 11

Using a plastic trim tool remove the passenger side dash trim panel.

NOTE

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



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Step 12

On the outside of the rear tailgate, pop out the rubber grommet that houses third brake light wiring.



Step 13

Rotate the grommet 180 degrees so that the side that faces down is facing up. Using a razor knife, make a cut from the outside edge to the middle paying special attention to not cut yourself or the existing wires.



Step 14

Feed the larger of the two connectors of the camera extension cable through the vent panel opening on the inside of the tailgate and then through the grommet opening. Be sure to leave between 6 and 8 inches of cable on the outside of the grommet and insert it in the slit made in the last step. Secure the cable in the grommet using a zip tie. Secure the grommet back into the tailgate making sure the slit in the grommet is facing down.





Installing the Camera Extension Cable (cont.)

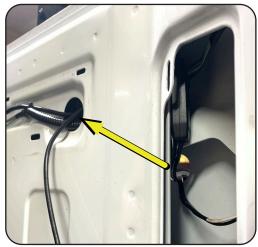
Step 15

Line the arrows up and connect the camera extension cable to the camera. Twist on the screw on lock until fully seated.



Step 16

Route the cable from Inside the vent opening in tailgate to the opening where the wires exit.



Step 17

Route the cable along the factory wiring securing it with wire ties.

NOTE

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



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Step 18

Continue routing the cable along the factory wiring securing it with wire ties.

NOTE

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



Step 19

Follow the factory wiring to the front of the vehicle. Once the cable has been routed to in front of the passenger door start routing it up towards the side of the dash.

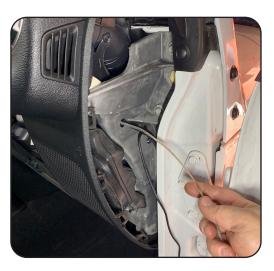
NOTE

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



Step 20

Using a wire fishing tool route the cable through the hole in the passenger side of the dash just above the speaker.





Installing the Camera Extension Cable (cont.)

Step 21

Route the cable along the thick bundle of wires high in the dash and pull the remainder of the cable through the glove box opening. This will later be connected to the mirror power harness.



Installing the Mirror Power Harness

Step 1

Start removing the factory inside rear view mirror by loosening the set screw with a T20 Torx driver.



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Step 2

Lift the mirror off the factory windshield button. If the vehicle is equipped with an auto dimming mirror, depress the clip and slide open the cover. If the vehicle is not equipped with an auto dimming mirror proceed to step 4.



Step 3

Depress the connector locking tab and remove the connector from the mirror.



Step 4

Remove the center of the push rivet using a Phillips screw driver.



Installing the Mirror Power Harness (cont.)

Step 5

Remove the passenger side visor by removing the (x2) T20 Torx screws.

NOTE

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



Step 6

Remove the passenger A-pillar upper and lower trim panels by releasing the clips holding them to the pillar.

NOTE

Once the trim panels have been removed, place in a safe area to avoid damage.



Step 7

Start routing the mirror power harness by tucking it behind the center windshield trim panel. Be sure to leave enough cable hanging out to connect to the HD Full-View mirror.





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Step 8

Route and secure the mirror power harness to the windshield frame using tape like shown in the picture.



Step 9

Route the harness into the dash on the passenger side and out of the glove box opening.



Step 10

Secure the mirror power cable and the camera extension cable to the factory wire bundle located at the top of the glove box area with wire ties.



Illustrations are typical and may not match exact vehicle detail



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Installing the Vehicle Power Harness

Step 1

Using a plastic trim tool, remove the power window switch panel and disconnect the connector from the back. To do this move the red secondary lock upwards and then depress the connectors locking tab to remove.

NOTE

Vehicles without the power window option will need to remove the storage pocket in the same location.



Step 2

Once the panel or pocket is removed, remove the 7mm bolt securing the dash trim panel to the vehicles sub dash. Pull out on the lower portion of this dash trim panel to separate it from the HVAC panel located below.



Step 3

Using a plastic trim tool, pop out the HVAC panel from the vehicles sub dash to access the connector behind the vehicles 12V power port. Disconnect the connector from the back by depressing the locking tab on the connector and pulling away from the panel.



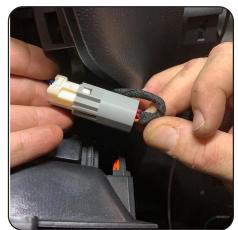
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Step 4

Connect the CIGPLUG-ACC-HAR 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 to the 4 pin mini din from the mirror power harness labelled VIDEO HD.





FCTP-GM1903

Jeep Full-View Mirror Kit

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.



FCTP-GM1903

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Mounting the HD Full-View Mirror

Step 1

Connect the 12 pin White connector to the to the back of the mirror



Step 2

Slide the mirror onto the windshield mounted button.



Step 3

Tighten the mount onto the windshield button using the set screw. The hex key used to tighten this has been provided.





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Mounting the HD Full-View Mirror (continued)

Step 4

Install the connector cover, wire track and windshield track by clipping them on according to the picture. Depending on the location of the windshield button the windshield track may need to be trimmed (shortened) to fit.



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 reverse camera input is being used:

Shift the vehicle into reverse and verify that the image from the optional reverse 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.

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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.

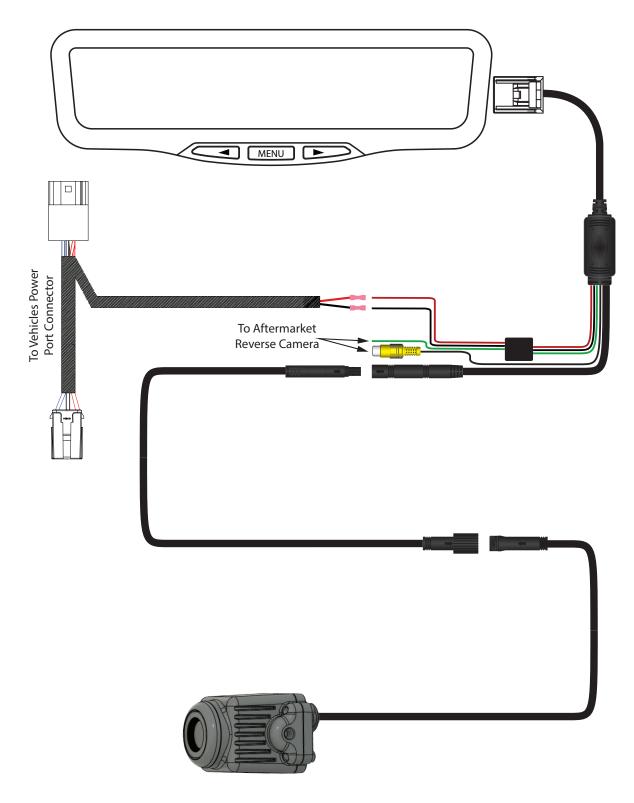
Using the Optional Reverse Camera Input

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. This wire is White/Gray (White with a Gray stripe) and will be located in the passenger kick panel in the harness that routes to the rear of the vehicle.



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System Overview



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Notes:

Installation Guide



Notes:



Notes:

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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