

KAOdTECh



HELPING MAKE THE IMPOSSIBLE OEM UPGRADES POSSIBLE

INSTALLATION GUIDE

RAM 1500

Cargo CAM Harness

Disclaimer

Performing this or any modification to your truck could void your manufacturer's warranty and/or cause issues with the function of the truck. By purchasing and/or installing any of these custom items (harness, bypass plugs, etc) you agree to absolve KAOdTECh, Michael Doak and all associates of any and all damages that may occur as a result of installing said item. If you do not agree to this provision promptly return the item(s) for a full refund (less 10% shipping/restock fee).

Required Parts:

| Photo | Description |
|---|---|
|  | <p>KAOdTECh Cargo Cam Harness – Main harness</p> |
|  | <p>KAOdTECh Cargo Cam Harness – Camera Pigtail</p> |
|  | <p>KAOdTECh Cargo Cam Harness – Cigarette Lighter T-Harness</p> |
|  | <p>Center High Mounted Stop Light (CHMSL) with Camera. Mopar Part Number: 68163937AL</p> |
|  | <p>8.4 Factory Radio (VP3, VP4, UAS, UAQ) The radio model year and firmware will dictate if the CHMSL Camera can be installed. If the Radio model year is 2013 – 2015, the firmware MUST BE 17.11 if both the backup camera and cargo cam are to be displayed on the radio. If it is not version 17.11, the cargo cam can be the only video input on the radio. 2016 and up radios should work with any firmware version.</p> |

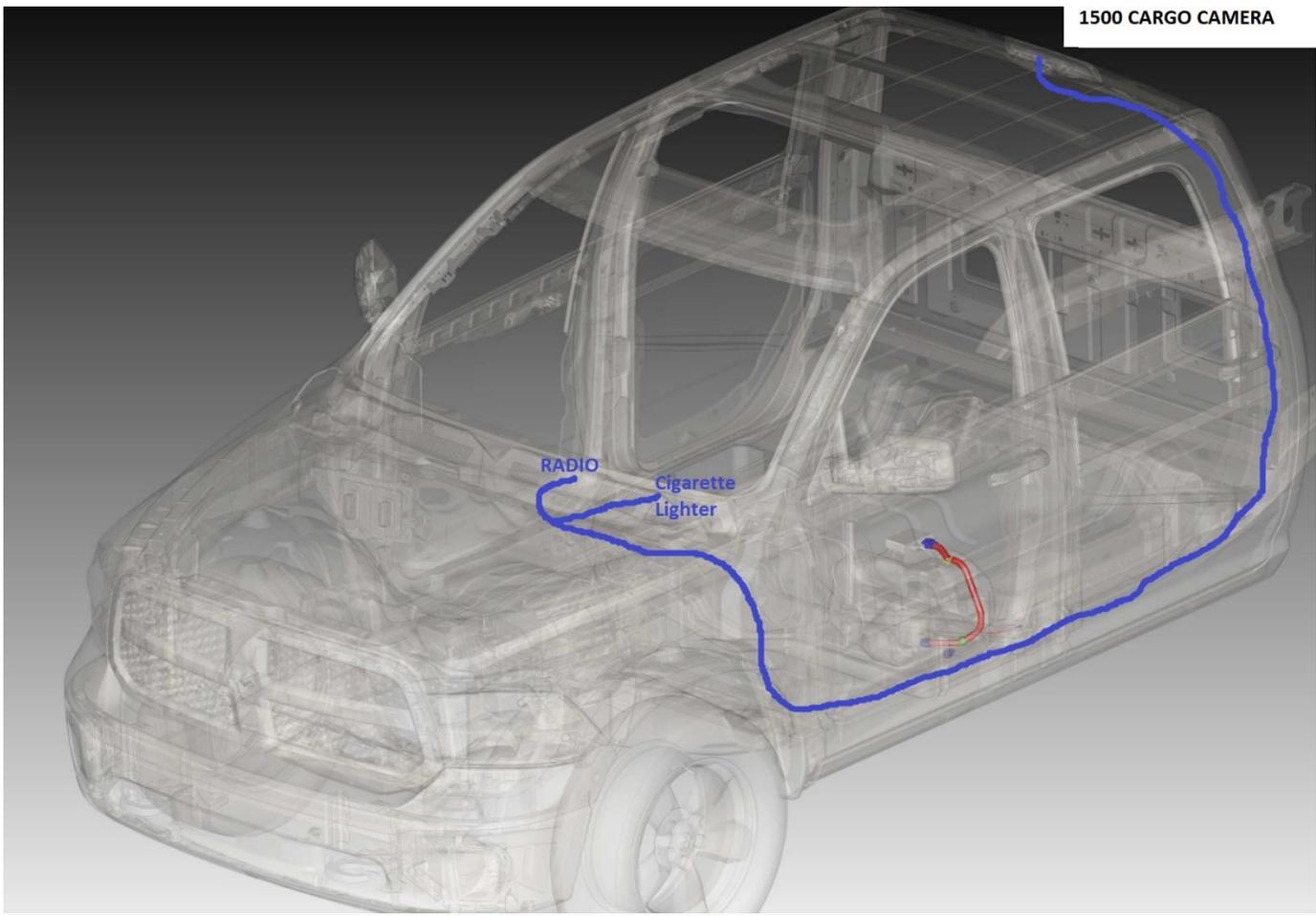
Warnings



Before performing any electrical modifications to your vehicle, it is advisable to disconnect the battery.

Installation

Harness Routing



Component and Trim Removal

1. Locate and remove the two screws from the third brake light. Remove the third brake light and disconnect the white 4 pin connector from the light.



2. Remove both hat hangers from the rear of the headliner by popping the plastic cover off and then removing the screws. If you have a dome light at the rear of the headliner, it may be necessary to remove it also. This should provide enough movement in the headliner to allow for the routing of the harness over to the driver side C Pillar.



3. Pop open the screw cover on the driver side C pillar and remove the screw holding the cover. Remove the upper C pillar cover



4. Remove the driver's side door thresholds on both the front and rear doors (where applicable). Rear threshold is shown in image to the right. Driver's side will have the kick panel attached to it.



5. Remove the center stack and console components to expose radio. The following links can be used as an example of how to remove the center stack and radio:

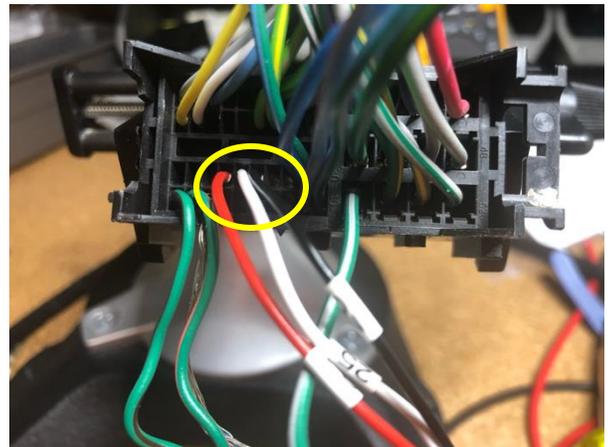
http://www.mediafire.com/file/94xk4gmd6dy899a/2013-2016_Ram_Radio_Removal_6-27-16.pdf
<https://www.youtube.com/watch?v=djjsG0OnKFQ>

Harness Routing and Connection

1. Attach the camera pigtail harness provided to the cargo cam as show.



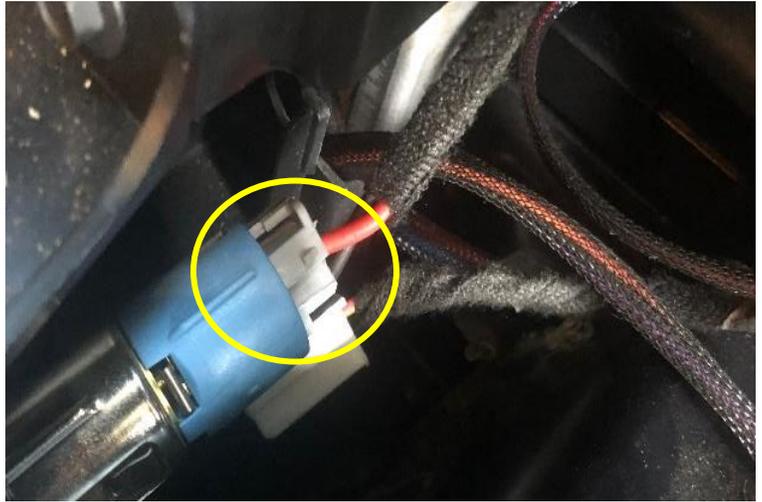
2. Connect the black connector from the harness to the black connector on the camera pigtail. It is fully inserted when a “click” is heard.
3. Route the harness down the C Pillar, across the door thresholds, and over to the radio.
4. Pin the 3 wires as shown below by gently removing the red TPA lock off of the front of the connector and then inserting the terminals as shown in pins 24,25,26.



5. Locate the cigarette lighter that has the white connector plugged into it. It will have a pink with yellow striped wire and a black wire in it. Remove the white connector from the cigarette lighter by depressing the tab and pulling out.



6. Insert the gray connector from the cigarette lighter t-harness into the cigarette lighter where the white connector was removed from in the previous step.



7. Plug the white connector that was removed from the cigarette lighter into the large white connector on the cigarette lighter t-harness.



8. Plug the small two pin connector from the cigarette lighter t-harness into the two pin connector on the main cargo cam harness.

Enabling BCM Codes with AlfaOBD

In order to enable the input on the radio and disable the brake light out message that will illuminate when adding the LED CHMSL, settings in the BCM will need to be changed. AlfaOBD is the most common way to do this. If you are not familiar with AlfaOBD, please refer to the following website.

<https://www.ramforum.com/threads/alfaobd.123982/>

| ECU - Setting | Setting Value |
|------------------------|----------------------|
| CHMSL Camera | Yes |
| LED CHMSL Lamp Present | Yes |

Depending on the trim level and model of your truck, a dealer may also be able to activate this feature in the BCM.