INSTALLATION GUIDE

RAM HD

Cargo CAM Harness

Required Parts:

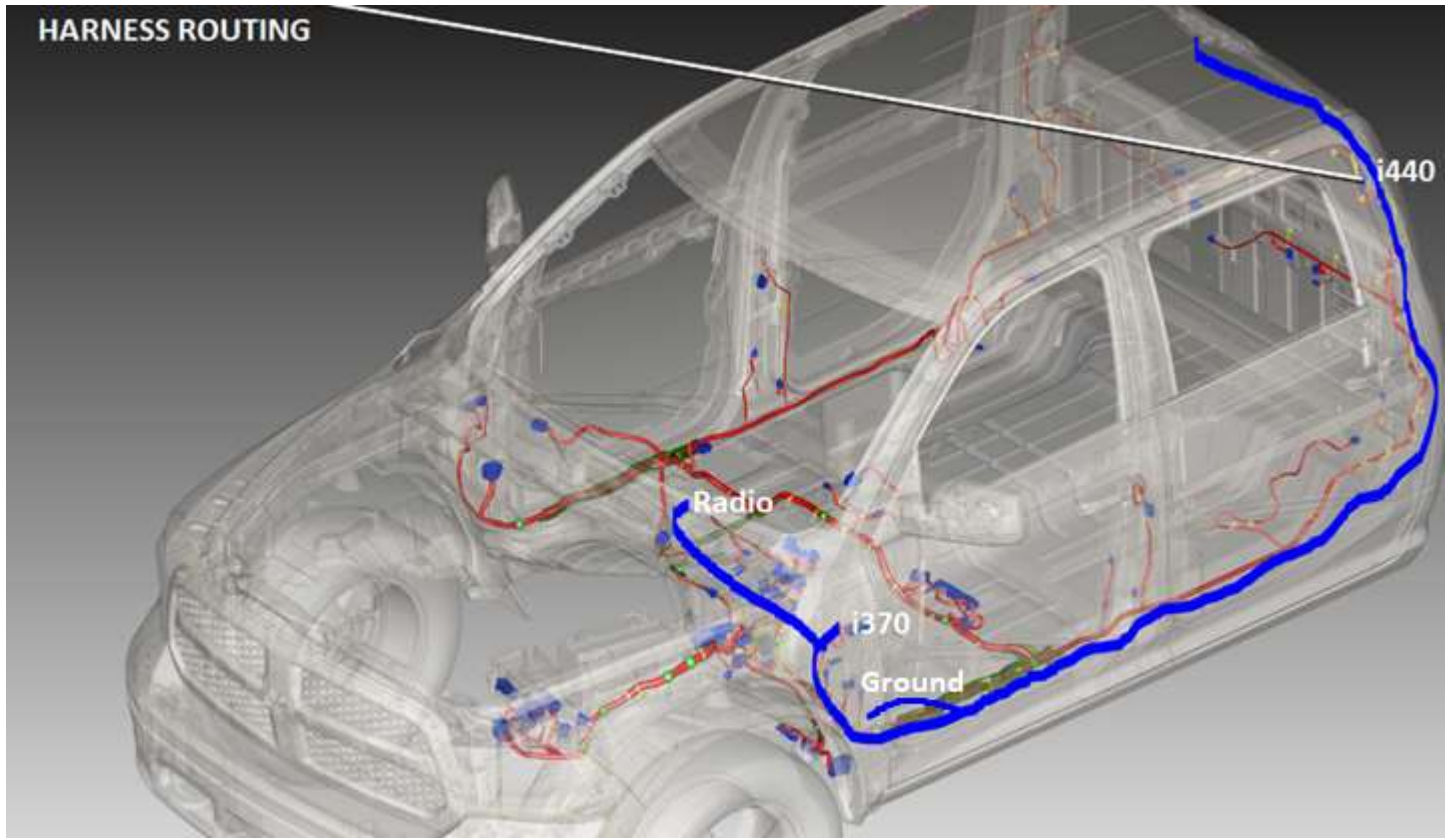| Photo	Description
	KAOdTECh Cargo Cam Harness
	Center High Mounted Stop Light (CHMSL) with Camera. Mopar Part Number: 68163937AL
	8.4 Factory Radio (VP3, VP4, UAS, UAQ) The radio model year and firmware will dictate if the CHMSL Camera can be installed. If the Radio model year is 2013 – 2015, the firmware 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.

Warnings

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

Installation

Identify your harness

- ☐ *i370 Harness – The long lead of the harness that contains 3 wires will be labeled 12,13,14 or 13,14,15.*

- ☐ *Radio Install – The long lead of the harness that contains 3 wires will be labeled 24,25,26.*

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.
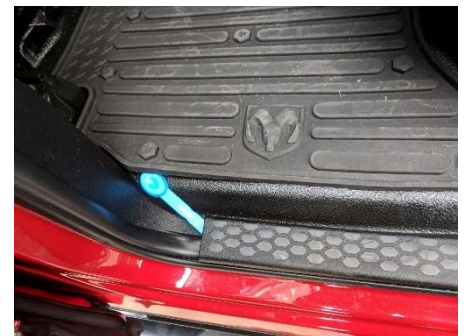
2. Remove both hat hangers from the rear of the headline by popping the plastic cover off and then removing the screws. If you have a dome light at the rear of the headliner, it may be necessary to remove it also. This should provide enough movement in the headliner to allow for the routing of the harness 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 to reveal the i440 connector as shown below.

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. If you are doing an i370 install, remove the cover on the driver's side of the dash, to reveal the green i370 connector.
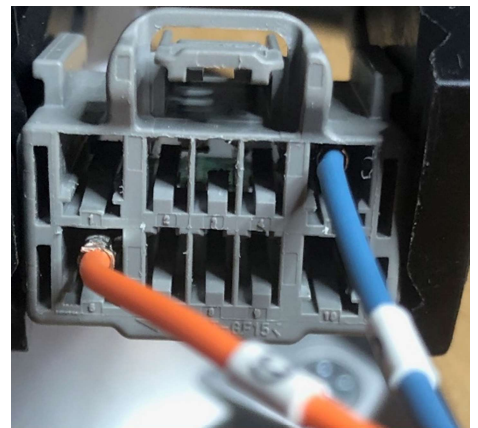

Harness Routing and Connection

1. Attach the factory 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 from the CHMSL to the i440 connector. Pins 5 and 6 will land in the i440 connector has shown. There is a red TPA lock on the front of the connector that will need to be popped out to allow the pins to be inserted.

4. Continue routing the remainder of the harness down the C Pillar, across the door thresholds, and over to either the i370 connector or to the radio.
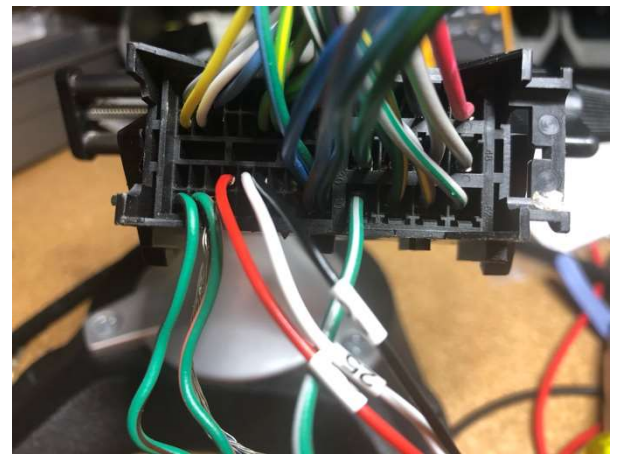
5. Pin the 3 wires as shown below:

I370

Gently pop out the white tpa lock from the front of the connector and pin the wires into the correct position that matches the labels on each wire. Note that different model years use different pins so be sure to match the pin to the correct location in the connector. The numbers are embossed below the slot on the connector.

Radio

Gently remove the red TPA lock off of the front of the connector and then insert the terminals as shown:

6. Locate the grounding lug located behind the driver's side kick panel and attach the grounding eyelet from the harness to the ground lug.

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.