Q-347

SVE BULLETIN

SPECIAL VEHICLE ENGINEERING – BODY BUILDERS ADVISORY SERVICE

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QVM Bulletin: Q-347 Date 12/ December/ 2021

Revision	Update	Revision Date
	INITIAL RELEASE	12/December/2021

2023 and Later E-Series Cutaway Back up Camera

Models Affected: 2023 MY and Later E-Series Cutaway ordered with Back up Camera option

Purpose: To provide clarification on available back up camera options available for E-Series Cut-aways, larger screen size and smaller camera. Camera mounting is different from previous design.

Solution: The customer has the option of an aftermarket solution or the Ford option of ordering ***Back Up Camera Option .*** Back up camera includes Large Rear View Video display that utilizes most of the mirror area. ***If back up camera is not ordered with the vehicle, it cannot be retrofit later.***

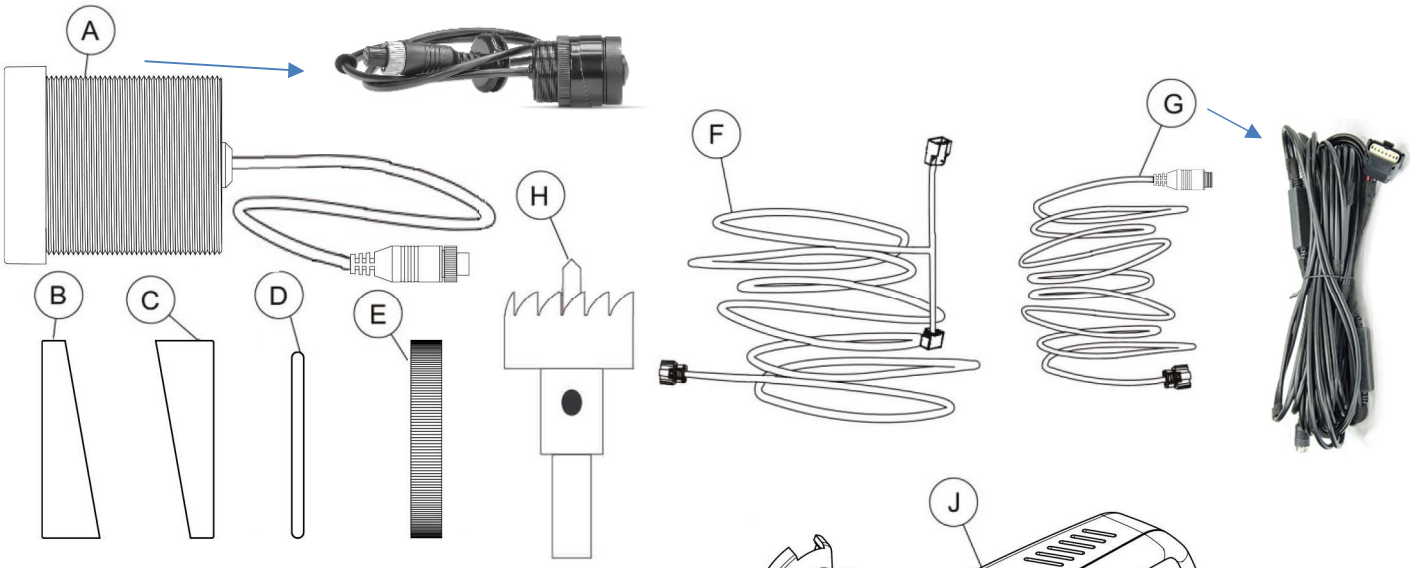
Note: All E-Series cut away vehicles are over 10,000 lb. GVWR; therefore the new back up camera requirements of FMVSS 111 do not apply.

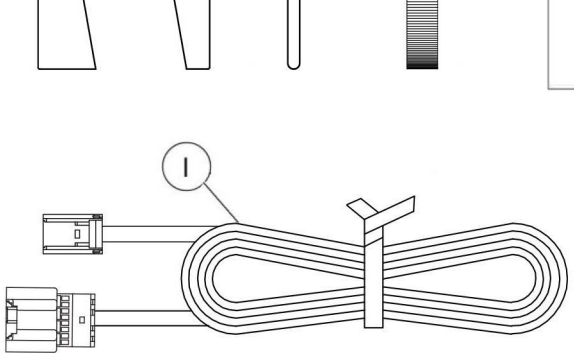
If you have any questions, please contact the Ford Truck Body Builders Advisory Service as shown in the header of this bulletin.

INSTALLATION OVERVIEW

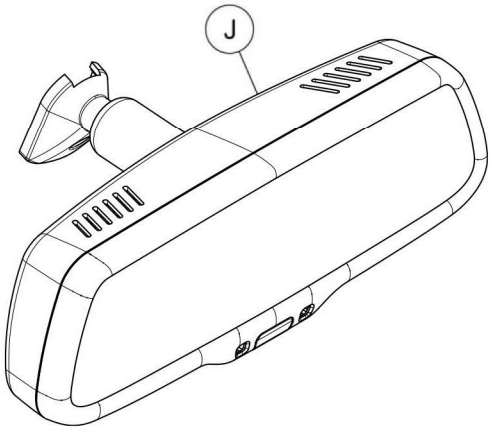
1. Overview of Camera Kit:

The rear view camera and wiring kit with installation instructions provide opportunity for easy installation by the upfitter to support E-Series cut away vehicles.





See note 5 for loose wire attachment



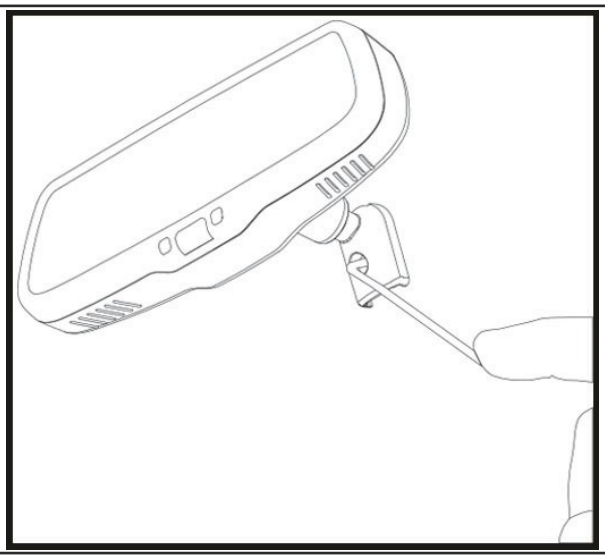
Box Contents

2. Review the Loose Camera Kit Contents.

Loose Camera Kit

ITEM	QUANTITY	DESCRIPTION
A	1	Rear View Camera
B	1	Angled Spacer 1
C	1	Wedge Spacer 2
D	1	O-Ring Gasket
E	1	Locking Nut
F	1	T-harness (15A404) (Provided Separately)
G	1	Rear Jumper Harness
H	1	Hole Saw
I	1	Mirror Power Harness
J	1	Mirror

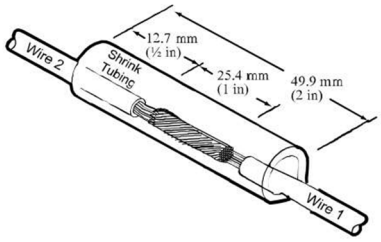
3. Place the mirror (J) onto the windshield mount and tighten the set screw built into the base.



Step 3

4. Connect the Mirror Power Harness (I) to the Mirror (J) and then to the Rear View Camera Display Mirror Connector (C9039).

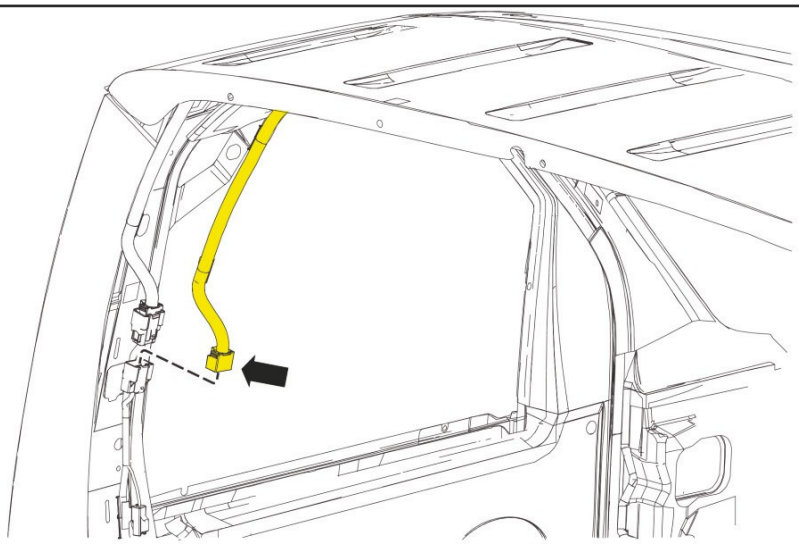
5. Locate the Black shield/ground wire in pin 4 on the vehicle side of the Rear View Camera Display Mirror Connector (C9039). Follow this wire towards the vehicle and locate the junction where the ground and shield wires are spliced together. Cut the vehicle side of the ground wire away from this junction leaving the shield wire still connected to Pin 4 of the C9039 connector. Connect the vehicle side ground wire to the loose ground wire from the Mirror Power Harness (I). Tuck and secure any excess cable above the headliner.



Step 5

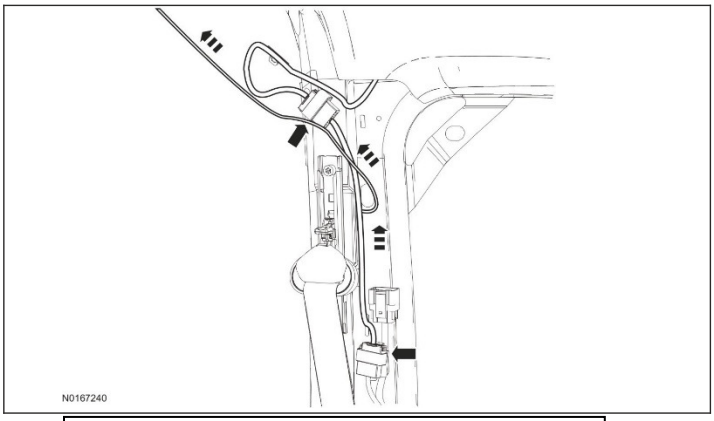
- For questions regarding splicing wires, please refer to the Ford Wire Splice Techniques document.

6. Locate headliner harness connector C315 on drivers side B-pillar and disconnect the connectors.



Step 6

7. Connect the camera T-harness (15A404) [(F) provided separately] to both ends of the headliner harness connectors C920/922.
    - Bundle and secure the T-harness (15A404) and headliner harness above and away from the adjustable safety belt so that it will not interfere with operation.



Step 7

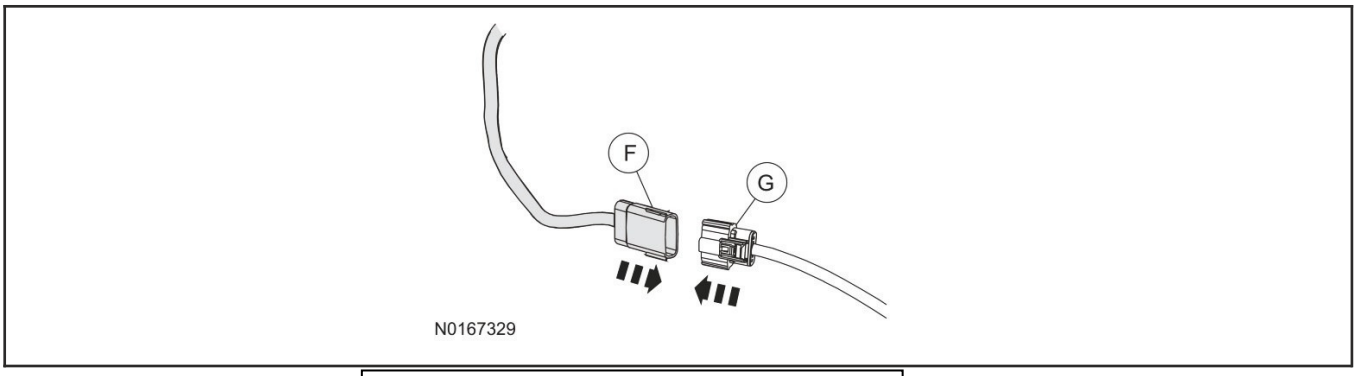
Secure the upper T-harness (15A404) connector to the B-pillar using one of the following methods:

- Using tie straps.
- Drilling a 6.5 mm (0.255 in) hole into a suitable location on the upper portion of the B-pillar and installing the push pin retainer. Use an approved corrision resistant coating on the areas exposed buy drilling into the body sheet metal. Please refer to the General BBLB for additional corrosion prevention guidance

8. Find a suitable location to mount the rear view camera onto the vehicle using the guidelines found within the "General Guidelines for Installation" section.
9. Once the mounting location has been identified using the "General Guidelines for Installation" section, use the provided hole saw to cut a hole large enough for the camera to be mounted through the body panel. The camera should be mounted into a flat body panel to achieve a water tight seal.

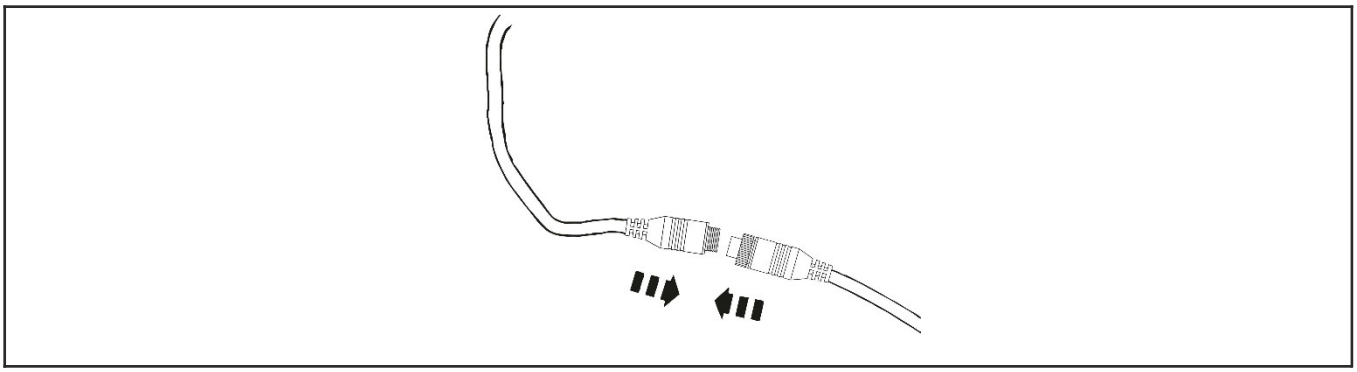
10. Install the rubber O-ring (D.) onto the camera base(A.) and insert the camera through the body panel. To obtain the proper view, the included wedge spacers may need to be used. When using the wedge spacers, they are designed for one to be placed on the front side of the body panel and the other to be on the back side of the body panel. This will keep the locking nut pushing against a flat surface. When using the wedge spacers the rubber O-Ring should be placed on the camera body between the wedge and the body panel.
11. Install and tighten the locking nut on the camera using a set of adjustable pliers.

12. Route the T-harness (15A404) (F) to the rear of the vehicle and connect the T-harness (15A404) (F) to the rear jumper harness (G).
    - Secure using one of the following methods:
        - Using tie straps.
        - Drilling a 6.5 mm (0.255 in) hole into a suitable location and installing the push pin retainer.



Step 12

13. Connect the rear jumper harness to the rear view camera located at end of frame.

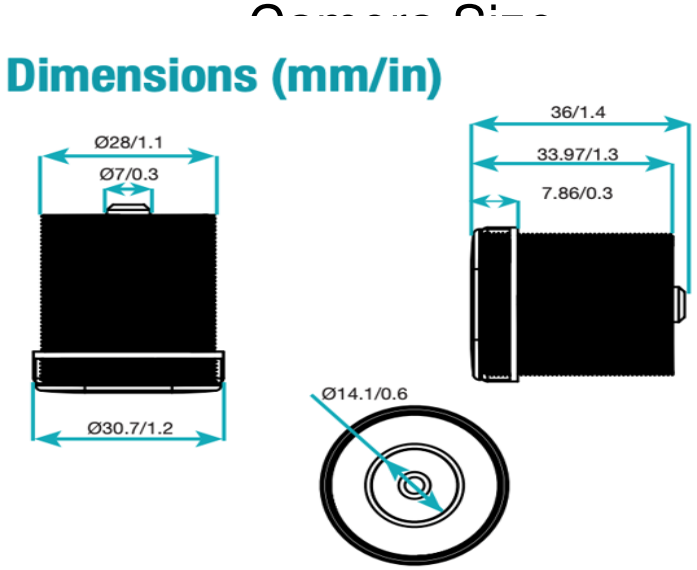


Step 13

14. Fasten wire harness within 100 mm (3.937 in) of the camera.
    - While securing the wire harness do not make any sharp bends (90 degree), in the harness that may compromise the wire integrity.
    - Do not secure the wire harness near sharp edges or moving components that may damage the wire harness.
    - Bundle and secure any excess wire with tie straps (not provided).

Check Camera Operation After Installation

15. Once installation of the camera is complete verify that the camera view is acceptable.



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