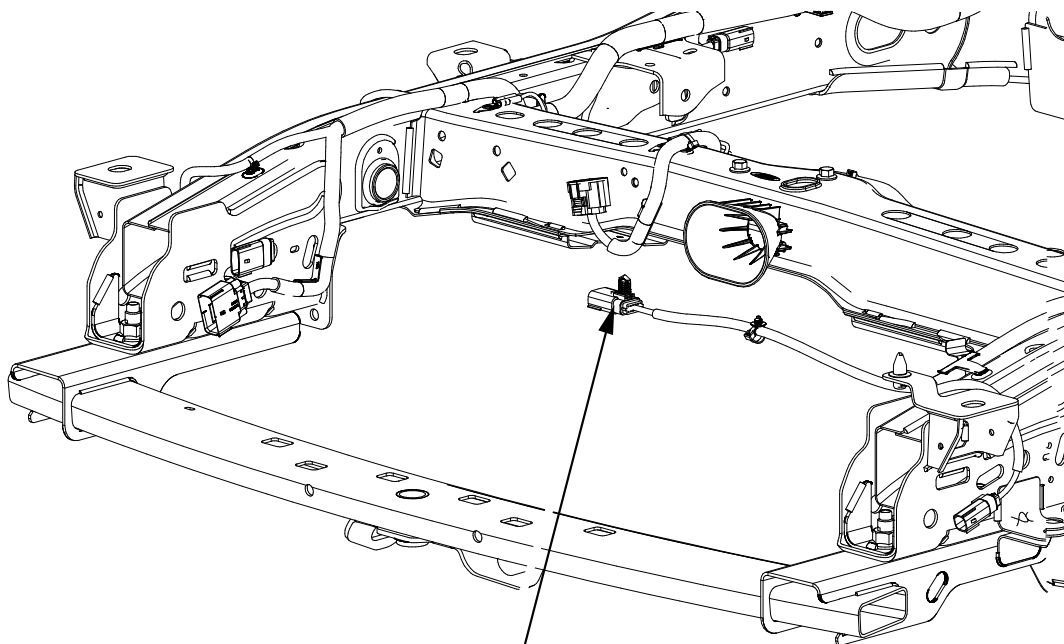


RANGER ELECTRICAL WIRING BOX AND TAILGATE REMOVAL REAR VIEW CAMERA



For Ranger Pickup trucks, the rear view camera is contained within the tailgate handle. If the Tailgate or Pickup Box is removed from the vehicle, another camera will need to be installed to continue compliance to FMVSS 111. A Rear View Camera Kit may be ordered from your Ford Dealer (part number JC3Z-19G490-D) for this purpose. The kit includes a camera, camera mounting hardware and 20' wiring harness. Camera placement locations for this kit are recommended on page 21, however the vehicle alterer is responsible for certification to the rear view camera portion of FMVSS 111.

NOTES:

- The wiring harness included in the Rear View Camera Kit is not compatible with the connector on the vehicle. The existing tailgate harness may be reused or a new one may be ordered from your Ford Dealer (part number KB3Z-14A412-B) and used in place of the wiring provided in the kit.
- The wiring in the Camera Kit can be made compatible with the vehicle by replacing the 6 pin inline connector with a 12 pin (Pigtail Kit #AU2Z-14S411-AMB). A shield is used to minimize noise in the video circuits, therefore it is not recommended that the harness from the kit be shortened. When replacing the 6 pin connector, it is recommended that the wires are clipped as close to the 6 pin connector as possible to maintain the integrity of the shield. Follow the recommended, approved splice procedure provided in the pigtail kit for each circuit spliced. The pigtail connector will not remain sealed if any circuits are removed.
- It is not recommended to reuse the camera provided in the tailgate for mounting anywhere else on the vehicle. The guidance overlay (i.e. lines showing the vehicle path and Red/Yellow/Green proximity zones) will not be accurate for the new location and cannot be turned off. The camera provided in the Rear View Camera Kit does not have guidance overlay to avoid this issue.

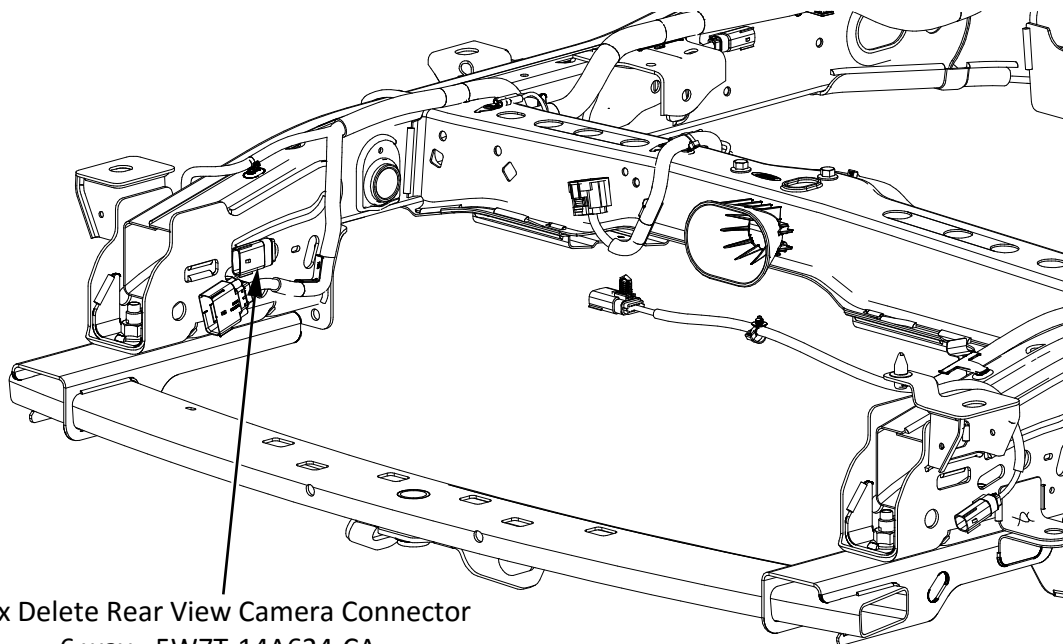
Chassis Wiring Pin Out for Tailgate
(Rear View Camera Functions Shown)
12 way - 4W1T-14A624-AB

Function	Pin #	Wire Color
V+ Bat	6	BN / YE
Lin Bus	7	VT / WH
Video -	2	BU / GY
Video +	8	WH / GN
Ground	3	BK

Rear View Camera Kit JC3Z-19G490-D
Inline 6 way - 5W7T-14A464-DA

Function	Pin #	Wire Color
V+ Bat	1	VT / BN
Lin Bus	6	WH
Video -	3	VT / GY
Video +	2	GN / BU
Ground	4	BK

RANGER ELECTRICAL WIRING BOX DELETE REAR VIEW CAMERA



Box Delete Rear View Camera Connector
6 way - 5W7T-14A624-CA

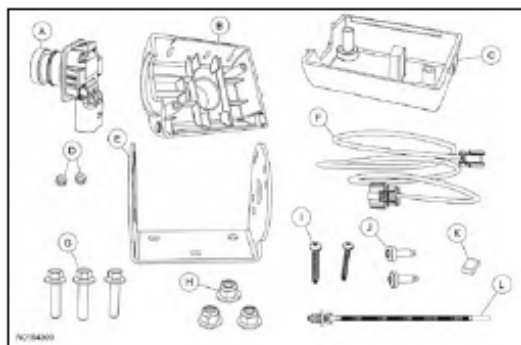
NOTES:

A Rear View Camera Kit is available as an orderable option (Order Code 53N) with all Ranger Pickup Box Delete vehicles.

For Ranger Pickup Box Delete vehicles ordered without the factory Rear View Camera Kit, a compatible kit is available through your Ford Dealer (part number JC3Z-19G490-D). An FDRS (Ford Diagnosis and Repair Tool) is required to activate the camera kit.

Camera placement locations for this kit are recommended on page 21, however the subsequent stage vehicle manufacturer is responsible for certification to the rear view camera portion of FMVSS 111.

Rear View Camera Kit Contents



Item	Quantity	Description
A	1	Rear View Camera
B	1	Front Camera Case Half
C	1	Rear Camera Case Half
D	2	Screw Retaining nuts
E	1	Mounting Bracket
F	1	Wire Harness
G	3	Bolts
H	3	Nuts
I	2	Screws (Longer)
J	2	Screws (Shorter)
K	1	Foam Pad
L	1	Push Pin Tie Strap

RANGER ELECTRICAL WIRING

REAR VIEW CAMERA PLACEMENT FOR BOX DELETE / REMOVAL

Ford Rear View Camera Compliance Capability:

Ford has tested the available rear view cameras in combination with the available displays and found all pairings capable of meeting the rear view camera portion of FMVSS 111 requirement when mounted within the zones defined in below. Actual certification to the rear view camera portion of FMVSS 111 is the responsibility of the subsequent stage manufacturer (box delete) or vehicle alterer (box or tailgate removal).

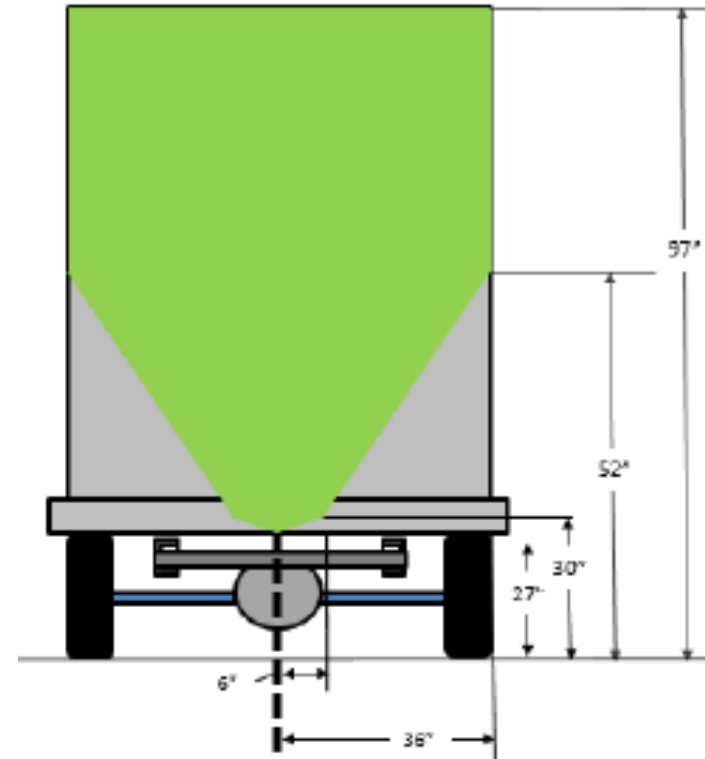
Applicable Equipment:

- Equipment provided with Rear View Camera option 53N on Ranger Box Delete (R1A) incomplete vehicles.
- Equipment provided in Rear View Camera Kit (part number JC3Z-19G490-D) when used on Box Delete vehicles or on Pickups where the tailgate or pickup box is removed.

Applicable Vehicle Displays:

- 4.2" Center Stack
- 8" Center Stack

Compatible Rear View Camera Locations



Note that the NTEA has provided detailed information and educational resources to help members better understand the new FMVSS 111/reverse camera conformity (including a manual and test kit). Ref. <http://www.ntea.com/fmvss111rearvisibility>