



SUBJECT:

Camera monitoring system (feature 08RRK) adding additional cameras.

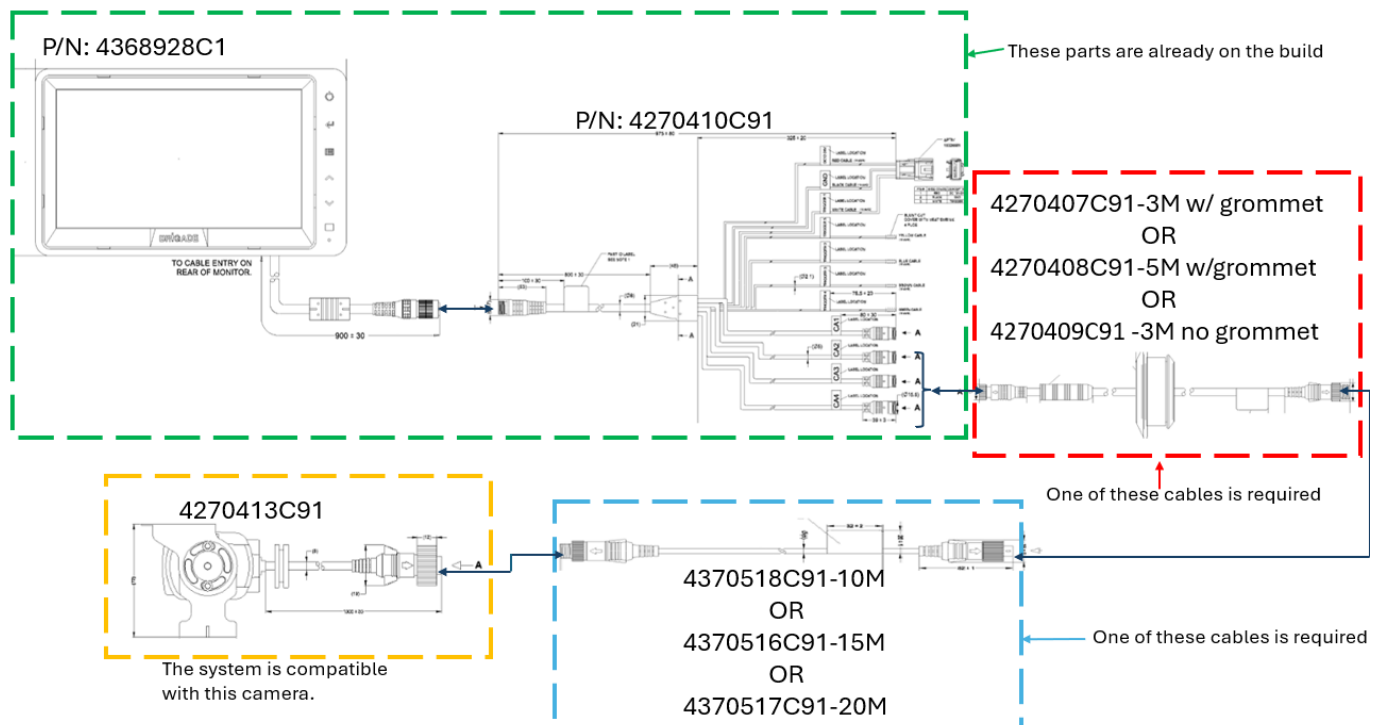
MODELS INVOLVED:

MV series, HV series, HX series, CE bus

BACKGROUND:

The vehicle is equipped with a camera monitoring system. During production, the monitor, cabling, and trigger for the rear camera were installed. Additionally, there are three extra camera connectors and four triggers available for camera installations. This document provides instructions for adding these cameras.

SYSTEM DIAGRAM:





PARTS REQUIRED:

BOM		
Part Number	Description	Notes
4270413C91	Lowlight color camera plus audio, dust and waterproof.	Required
4270407C91	Day cab/Crew Cab/Extended Cab- HX/HV/MV With Grommet	One of these cables is required
4270408C91	Short Sleeper/Long Sleeper -HX With Grommet	
4270409C91	Wing panel/Flat panel (No grommet required) CE BUS	
4370516C91	Chassis Harness to Camera standard Length 15M	One of these cables is required
4370517C91	Chassis Harness to Camera standard Length 20M	
4370518C91	Chassis Harness to Camera standard Length 10M	

WORK INSTRUCTIONS:

GOVERNMENT REGULATION: Engine fluid (oil, fuel, and coolant) may be a hazard to human health and the environment. Handle all fluid and other contaminated materials (such as filters and rags) in accordance with applicable regulations. Recycle or dispose of engine fluids, filters, and other contaminated materials according to applicable regulations.

WARNING! To prevent personal injury, and / or death, or damage to property, park vehicle on hard flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in both directions.

WARNING! To prevent personal injury and / or death, always wear safe eye protection when performing vehicle maintenance.

WARNING! To prevent personal injury, and / or death, or damage to property, keep flames or sparks away from vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel explosive gases.

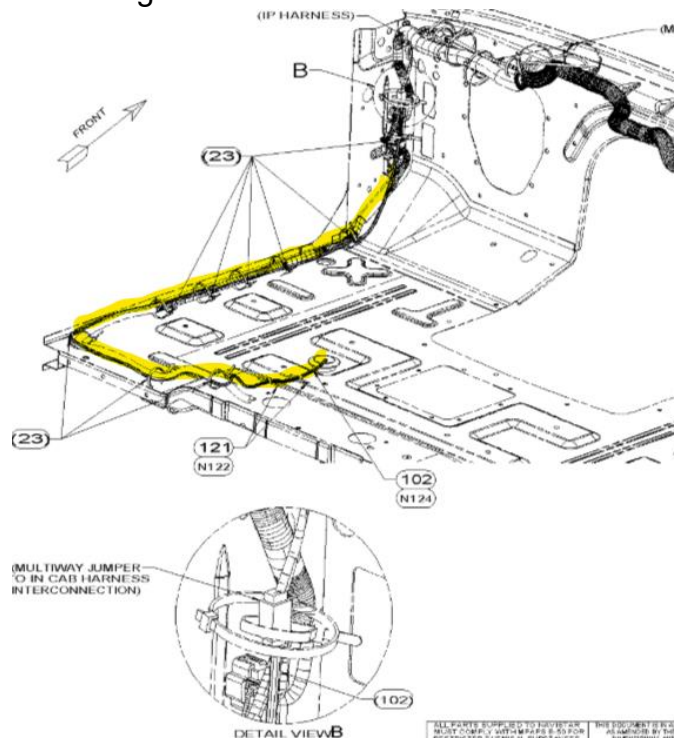
WARNING! To prevent personal injury and / or death, or damage to property, remove the ground cable from the negative terminal of the battery before disconnecting any electrical components. Always connect the ground cable last.



- 1.2. Remove the driver's side kick plate to expose the camera connectors and triggers:



- 1.3. The camera cables are labeled to identify which trigger they are associated with. Apply one of the selected cab camera cables (4270407C91 or 4270408C91 or 4270409C91) to the camera connector and route along the driver's seat to the cut-out in between the seats. Reference figure below.





- 1.4. Apply one of the selected chassis cables to the cable that was just installed (4370516C91 or 4370517C91 or 4370518C91).
- 1.5. Mount the camera using the mounting hardware provided and the instructions in the monitor catalog.
- 1.6. Apply the other end of the cable routed in step 1.4.3 to the camera P/N: 4270413C91.
- 1.7. The camera feed will be active on the display when its associated trigger is active. There are four available system triggers. They are blunt-cut wires. Use a splice to apply the wires such that they can be excited by a 12 V signal to activate the trigger.
 - The blue wire is used to activate trigger 2; trigger 2 will display the camera 2 feed.
 - The brown wire is used to activate trigger 3; trigger 3 will display the camera 3 feed.
 - The green wire is used to activate trigger 4; trigger 4 will display the camera 4 feed.
 - The yellow wire is used to activate trigger 5; trigger 5 will display 2 simultaneous camera feeds (default settings cameras 1 and 2).





ADDITIONAL REFERENCE MATERIAL:

Supplier website: <https://brigade-electronics.com/en-us/>

Camera BE-810C (1905): <https://brigade-electronics.com/en-us/camera-systems/cameras/>

Monitor VBV-770HFM: <https://brigade-electronics.com/en-us/camera-systems/monitors/>