

E-Stop circuit Check

Intermittent or permanent E-Stop pressed alerts when E-Stop buttons depressed.

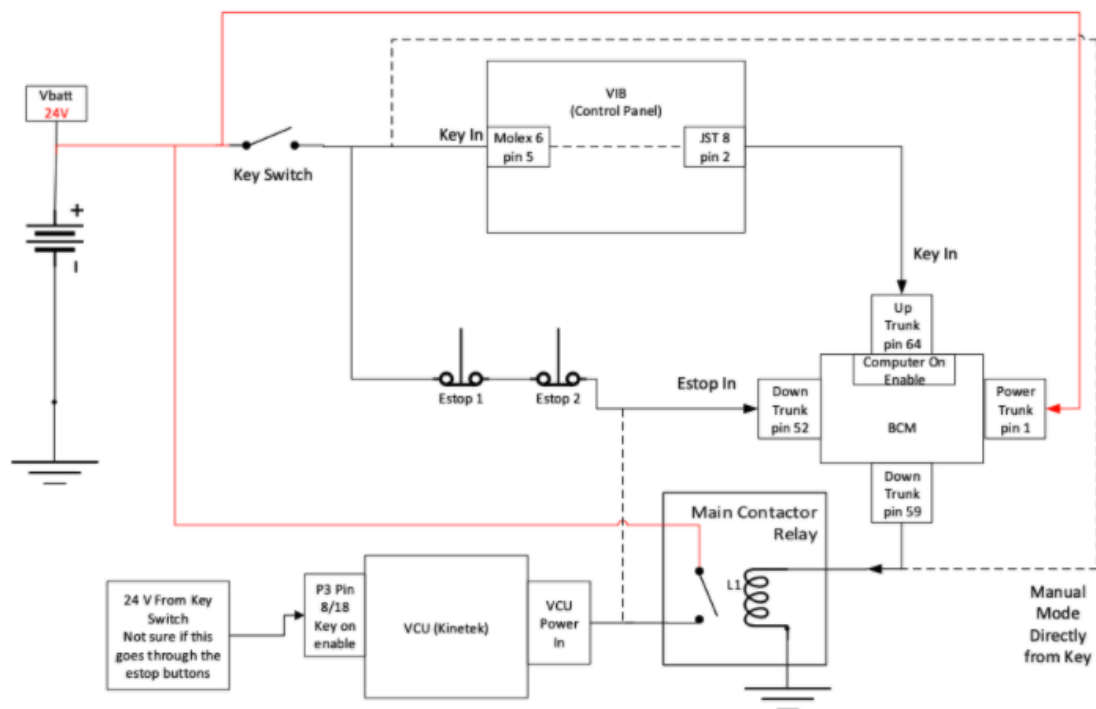
Assist codes:

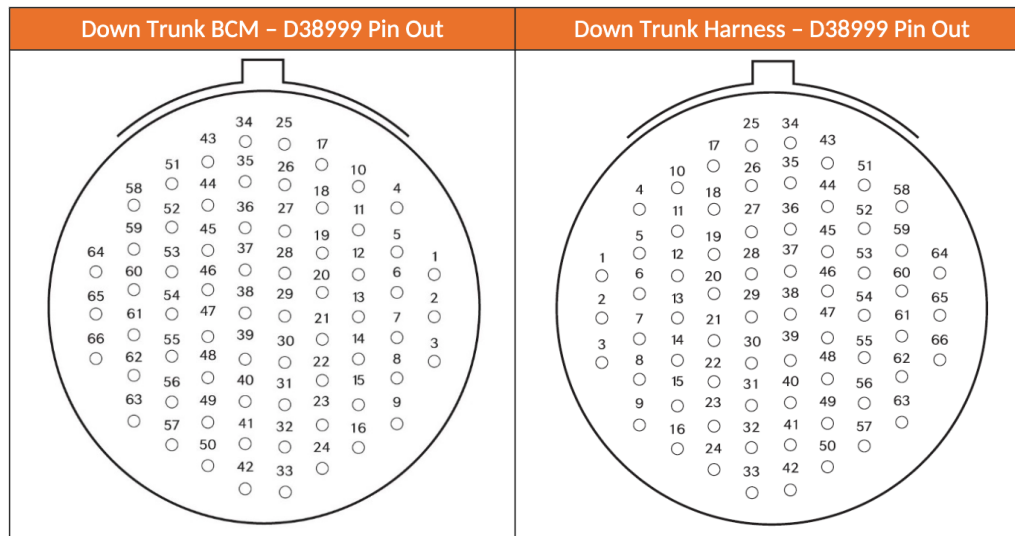
500- E-Stop pressed (Only when excessive and button is not pressed by Operator)

40004- Problem with the Gyroscope

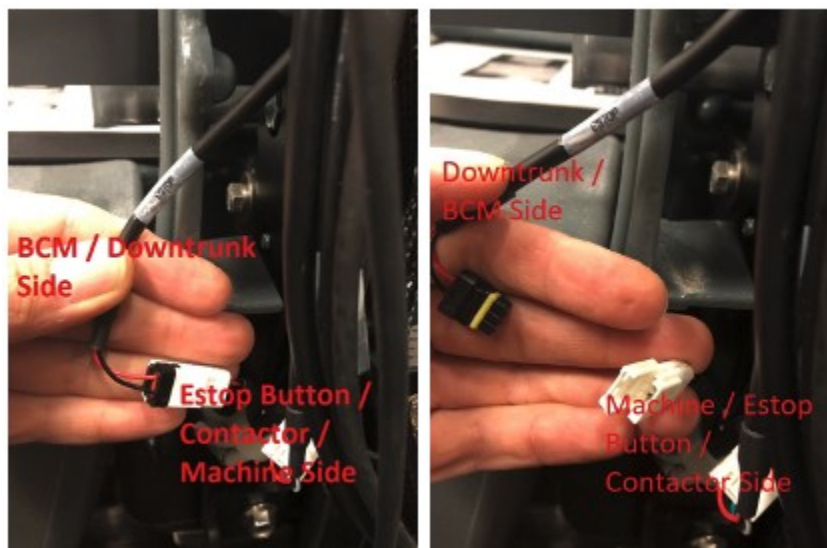
1. Confirm the estop buttons are depressed.
2. Confirm the selector switch is set to autonomous operation.
3. Reconnect the positive battery disconnect
4. Reconnect the power trunk from the BCM
5. Reconnect the down trunk from the BCM

To check the Estop circuit refer to the schematic below:

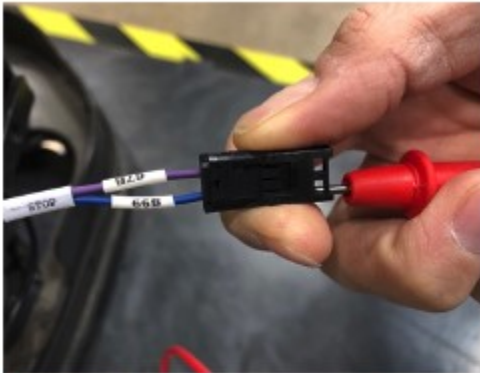




6. Turn the key to ON.
7. Locate Pins 59 and 52 on the down trunk.
8. Check for continuity (approximately 50 Ohms) from the Master Contactor pin 59 to Pin 59 on Down Trunk.
9. Check for continuity from the Scrubber side of the battery to Pin 52 on the Down Trunk. Continuity check and power 24V should be detected when Key is on.
10. Alternatively, can test E-Stop In/Out cable directly but this method will not show if Down Trunk is the issue.



Tennant



Minuteman



Line	Description	Values
ESTOP_IN	ESTOP Line In. Usually after ESTOP Button	24V when Estop Buttons released or Key Switch On
	External Connector	0V when Estop Button pressed or Key Switch Off
ESTOP_OUT	ESTOP Line Out, Usually goes into the Master Contactor Relay Coil	24V when ESTOP_IN is 24V AND (ESTOP Relay OR BYPASS Relay) are in closed position
	External Connector	0V when ESTOP_IN is 0V OR (ESTOP Relay AND Bypass Relay) are in opened position