

Event Codes

Display Messages

During truck operation, messages can occur that give visual aid to the operator. After the operator or service technician corrects the cause of the message, ACCESS 1 removes the message. Below is a list of these messages.

Messages after the operator turns the truck ON and during operation	
Display	Description
BattGate	The battery restraint switch (BRES) is open. Make sure that the right battery cover is installed correctly. Make sure that the FEATURES Menu F20.1 is set correctly. Then examine the battery restraint switch (BRES) circuit.
Cycle Brake	Fully push the brake pedal to release the brakes.
FWD/REV	The forward and reverse switch close at the same time. Follow the procedures for Event Code 327.
HCM Temp	The temperature of ACCESS 2 is too high. Follow the procedures for Event Code 226.
Lift Cut	The operator is not in the seat and pulls the lift handle. If the operator is in the seat, examine the seat switch (SES) circuit.
Low Batt	The battery charge is low during truck travel. If the battery is not low, make sure that the FEATURES Menu F3.4 is set correctly. Then follow the procedures for Event Code 315.
Low Battery, Lift Lockout	The battery charge is low, the truck does not move and the truck was turned OFF and ON two times. If the battery is not low, make sure that the FEATURES Menu F3.4 is set correctly. Then follow the procedures for Event Code 315.

Messages after the operator turns the truck ON and during operation

Display	Description
Low Battery, Rekey to Lift	The battery charge is low and the truck does not move. You can turn the truck OFF and then ON two times. If the battery is not low, make sure that the FEATURES Menu F3.4 is set correctly. Then follow the procedures for Event Code 315.
M1 Temp	The temperature of the right traction motor is too high. Follow the procedures for Event Code 323.
M2 Temp	The temperature of the left traction motor is too high. Follow the procedures for Event Code 338.
M3 Temp	The temperature of the hydraulic motor is too high. Follow the procedures for Event Code 228.
Parameters Modified	The Access 1 2 3 Menu settings changed to the factory default settings. Follow the procedures for Event Code 318.
PM Due	Do a PM on the truck. If the truck is not due for a PM, make sure that the HOURS Menu H9 PM TIMER is set correctly.
Rekey Truck and Calibrate	The truck lost calibration. Turn the truck OFF and ON and follow the procedures in the CALIBRATION Menu.
RelAccy1	The operator moves the first accessory lever when the truck turns ON or before the operator is in the seat. If the operator did not move the first accessory lever, and the truck has DC lift, examine the first accessory switch (AXS1) circuit. If the truck has an AC hydraulic system, follow the procedures for Event Code 209.

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Messages after the operator turns the truck ON and during operation	
Display	Description
RelAccy2	The operator moves the second accessory lever when the truck turns ON or before the operator is in the seat. If the operator did not move the second accessory lever, and the truck has DC lift, examine the second accessory switch (AXS2) circuit. If the truck has an AC hydraulic system, follow the procedures for Event Code 743.
Release Accelerator	The accelerator switch is closed when the truck turns ON, before the brakes release or before the operator selects forward or reverse. If the accelerator pedal is fully up, examine the accelerator switch (ACS) circuit.
Release Brake Pedal	The brake switch, BRKS1 is open. If the brake pedal is fully up, examine the brake switch (BRKS1) circuit.
Release Levers	The operator pulls the lift lever as the truck turns ON or before the operator is in the seat. If the operator did not move the lever and the truck has DC lift, examine the raise switch (RAS) circuit. If the truck has an AC hydraulic system, follow the procedures for Event Code 207.
RelPedal	Release the accelerator pedal. The battery voltage is too low to release the brakes. Examine the battery voltage. If the voltage is more than 24V, follow the procedures for Event Code 112.

Messages after the operator turns the truck ON and during operation	
Display	Description
Rel Lift	The operator pulls the lift and lower lever when the truck turns ON or before the operator is in the seat. If the operator did not pull the lift and lower lever, and the truck has DC lift, examine the raise switch (RAS) circuit. If the truck has an AC hydraulic system, follow the procedures for Event Code 207.
Rel Tilt	The operator moves the tilt lever when the truck turns ON or before the operator is in the seat. If the operator did not move the tilt lever, and the truck has DC lift, examine the tilt switch (TLT) circuit. If the truck has an AC hydraulic system, follow the procedures for Event Code 208.
Return Direction to Neutral	The forward and reverse control is not in neutral when the truck turns ON. If the control is in neutral, examine the forward and reverse (FS and RS) switch circuit.
SeatBelt	The operator did not attach the seat belt and tried to operate the truck. If the operator did attach the seat belt, make sure that the FEATURES Menu F20.5 is set correctly. Then examine the seat belt switch (SBS) circuit.
Seat Unoccupied	The operator is not in the seat and the brake, forward, reverse or accelerator switch is closed. If the operator is in the seat, examine the seat switch (SES) circuit.
Select Direction	The operator pushed the accelerator pedal before the direction handle was moved. If the operator did not push the accelerator pedal, examine the accelerator (ACS), forward and reverse switch circuit.
TCM Temp	The temperature of ACCESS 3 is too high. Follow the procedures for Event Code 322.

Messages after the operator turns the truck ON and during operation

Display	Description
Tow Mode	The truck is in tow mode. Refer to UTILITIES ► U2 TOW MODE and Crown Service and Parts Manual ► SAFETY ► Control of Hazardous Energy ► Towing Truck.
Truck Lockout	The truck is in truck lockout. You can not operate the truck. To remove the truck from Truck Lockout, go to UTILITIES ► U3 TRUCK LOCKOUT.
Unattended Movement	The truck moves and the operator is not in the seat or the truck is not in tow mode. If the truck did not move, follow the procedures for Event Codes 314 and 336. If the operator is in the seat, examine the seat switch (SES) circuit.
User Code	The operator must put a User Code in ACCESS 1 to operate the truck. Refer to FEATURES ► F11 USER CODES.

Event Code 100

ACCESS 1 received an unknown event code

Note: This event can occur if a new ACCESS 2 or 3 is installed with a newer version of software than ACCESS 1.

Step 1: Was a module replaced?

- **If:** A module was replaced.
 - Then do a software update.

Note: After you do a software update, if a different event occurs, follow the new event code procedures.

- **If:** A module was not replaced.
 - Then go to Level 2 ► EVENTS ► E1 CHRON HISTROY. Go to the Event Code that occurred before Event Code 100. Follow the procedures for that event code.

Event Code 101

ACCESS 1 does not sense ACCESS 7 (EPV only)

Note: If you set FEATURES Menu F4 to EPV and the truck does not have ACCESS 7, the truck can record Event Code 101.

Step 1: Connect a DVOM to CA837-16 (+BV) on ACCESS 7 and to BNEG.

- **If:** The voltage = 33 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then continue to Step 2.
- **If:** The voltage < 33 Vdc (36 V truck) or 45 Vdc (48 V truck).
 - Then examine the wires and connections between CA837-16 and CA201-9.

Step 2: Connect a DVOM to CA837-9 (BNEG) on ACCESS 7 and +BV.

- **If:** The voltage = 33 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then continue to Step 3.
- **If:** The voltage < 33 Vdc (36 V truck) or 45 Vdc (48 V truck).
 - Then examine the wires and connections between CA8376 9 and the BNEG Bus Bar on ACCESS 3.

Step 3: Examine the wires and connections between CA8376-1 and CA406-8 and between CA8376-2 and CA4066-11.

- **If:** The wires and connections are good.
 - Then replace ACCESS 7.

Event Codes

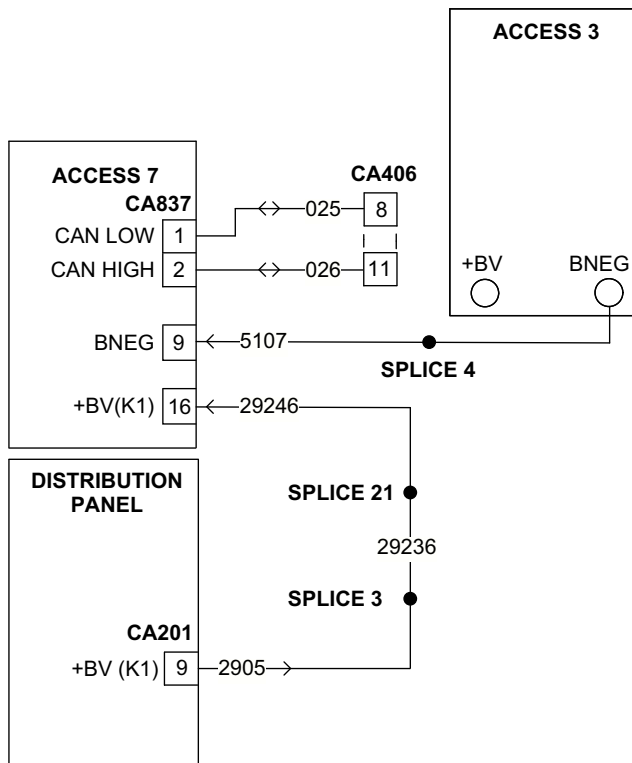


Fig. 1 (26746-01)

Event Code 102

ACCESS 1 does not sense ACCESS 2

Step 1: Connect a DVOM to CA404-1 (+BV) and BNEG on ACCESS 2.

- **If:** The voltage = 33 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
– Then continue to Step 2.
- **If:** The voltage is < 33 Vdc (36 V truck) or 45 Vdc (48 V truck).
– Then examine the wires and connections between CA404-1 and CA201-9.

Step 2: Examine the wires and connections between CA406-7 and CA404-15 and between CA406-10 and CA404-23.

- **If:** The wires and connections are good.
– Then replace ACCESS 2.

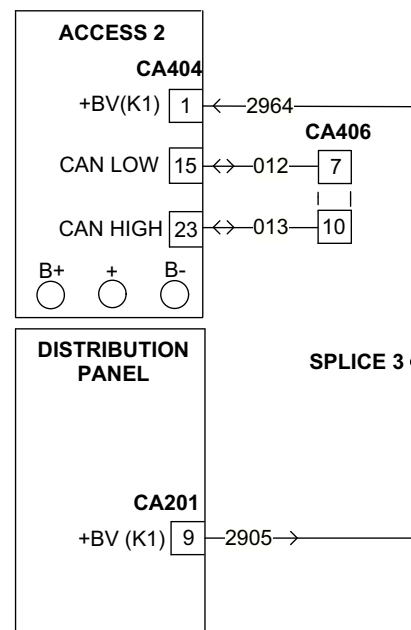


Fig. 2 (25201)

Event Code 103

ACCESS 1 does not sense ACCESS 3 (master)

Step 1: Follow Event Code 110 procedures.

Event Code 104

ACCESS 1 does not sense ACCESS 3 (slave)

Step 1: Follow Event Code 110 procedures.

Event Code 105

The ACCESS 3 software is not compatible with ACCESS 1

Note: To remove the Event Code, go to UTILITIES ► U4 CLEAR EEPROM ► CLEAR ACCESS 3 EEPROM.

- **If:** The software was downloaded.
– Then clear the EEPROM and download the software again. Calibrate the truck.
- **If:** The software was not downloaded.
– Then clear the EEPROM. If the Event Code occurs again, replace ACCESS 1. Then calibrate the truck.

Event Code 106

The ACCESS 2 software is not compatible with ACCESS 1

- **If:** The software was downloaded.
 - Then download the software again. Calibrate the truck.
- **If:** The software was not downloaded.
 - Then replace ACCESS 1. Calibrate the truck.

Event Code 107

The ACCESS 7 software is not compatible with ACCESS 1

- **If:** The software was downloaded or ACCESS 7 was replaced.
 - Then download the software again. Calibrate the truck.
- **If:** The software was not downloaded or ACCESS 7 was not replaced.
 - Then replace ACCESS 1. Calibrate the truck.

Event Code 108

No communication between ACCESS 1 and ACCESS 7

Step 1: Follow Event Code 101 procedures.

Event Code 109

No communication between ACCESS 1 and ACCESS 2

Step 1: Follow Event Code 102 procedures.

Event Code 110

No communication between ACCESS 1 and ACCESS 3

Step 1: Examine for BNEG at CA630-4 on ACCESS 1, the B- terminal on ACCESS 2 and the BNEG terminal on ACCESS 3.

- **If:** BNEG is at all the modules.
 - Then continue to Step 2.
- **If:** BNEG is not at a module.
 - Then examine the wires and connections between the module and the battery negative terminal.

Step 2: Turn the truck off and disconnect the battery. Let CA406 (shorting plug) connected. Examine the resistance between CA406-1 and CA406-5.

- **If:** The resistance = 58 to 62 Ω .
 - Then turn the truck OFF and then ON.
- **If:** The resistance = 0 Ω .
 - Then do a CAN short circuit test. See the CAN Short Circuit Test chart below.
- **If:** The resistance > 62 Ω or O/L.
 - Then do a CAN open circuit test. See the CAN Open Test chart below.

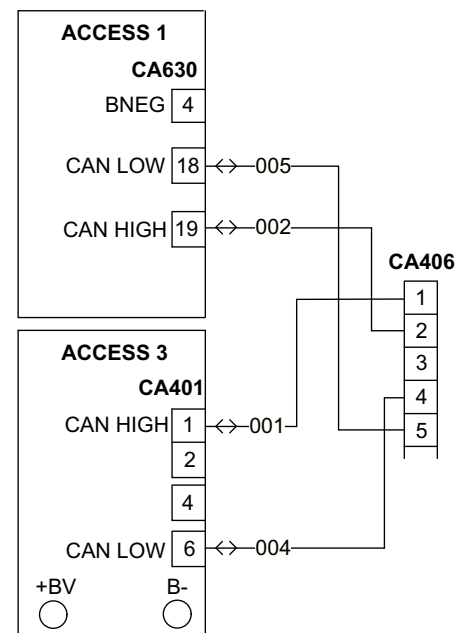


Fig. 3 (26747)

CAN Short Circuit Test

1.	Disconnect the shorting plug from CA406.
2.	Examine the resistance between PC406-1 and -4, and between PC406-2 and -5. The resistance must = 120 Ω .
3.	If the resistance < 115 Ω , then examine the wires and connections between ACCESS 3 and CA406.
4.	If the wires and connections are good, then do a CAN termination resistor test. See the chart below.

Event Codes

CAN Open Circuit Test

1.	Disconnect the shorting plug from CA406.
2.	Examine the resistance between PC406-1 and -4, and between PC406-2 and -5. The resistance must = 120 Ω .
3.	If the circuit is open, then examine the wires and connections between ACCESS 1, ACCESS 3 and CA406.
4.	If the wires and connections are good, then do a CAN termination resistor test. See the chart below.

CAN Termination Resistor Test

1.	Disconnect CA630 from ACCESS 1 and CA401 from ACCESS 3.
2.	Examine the resistance between CA630-18 and 19 on ACCESS 1. The resistance must = 120 Ω .
3.	Examine the resistance between CA401-2 and 4 on ACCESS 3. The resistance must = 120 Ω .
4.	Examine the resistance between CA401-1 and 6 on ACCESS 3. The resistance must = 120 Ω .
	If the resistance is < 115 Ω or > 125 Ω , replace the module.

Event Code 111

No communication between ACCESS 1 and ACCESS 3

Step 1: Follow Event Code 110 procedures.

Event Code 112

The brake output voltage from ACCESS 1 is low

Note: This event can occur if the battery voltage < 24 Vdc while the traction or hydraulic motor operates. Examine the battery charge while the traction or hydraulic motor operates.

Step 1: Examine the voltage at ACCESS 1 CA630-17 (+) and CA630-4 (-) with the truck ON and the seat switch closed.

- If:** < 34 Vdc (36 V truck) or < 46 Vdc (48 V truck).
 - Then examine the wires and connections between FU4 and ACCESS 1.
- If:** 34 to 38 Vdc (36 V truck) or 46 to 50 Vdc (48 V truck).
 - Then turn the truck OFF and then ON. Replace ACCESS 1 if ACCESS 1 shows the event again.

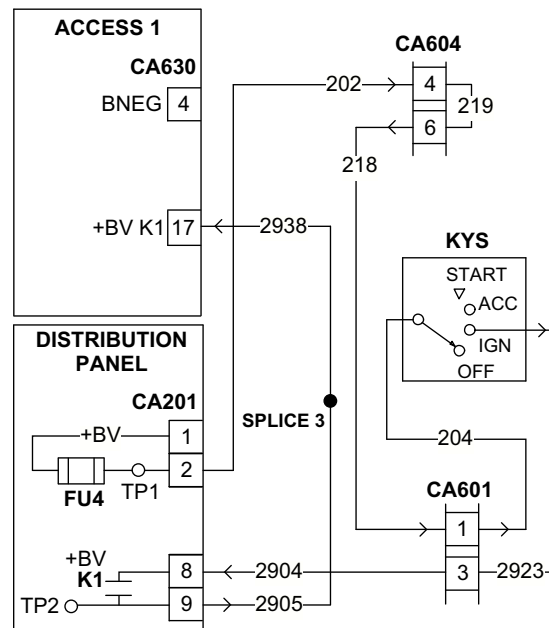


Fig. 4 (26748)

Event Code 113

Step 1: Examine the voltage at ACCESS 1 CA630-17 (+) and CA630-4 (-), with the key ON and seat switch closed.

- If:** < 34 Vdc (36 V truck) or < 46 Vdc (48 V truck).
 - Then examine the wires and connections between FU4 and ACCESS 1.
- If:** 34 to 38 Vdc (36 V truck) or 46 to 50 Vdc (48 V truck).
 - Then turn the truck OFF and then ON. Replace ACCESS 1 if ACCESS 1 shows the event again.

Note: If the truck operates, this could be a random nuisance code. Monitor the Event Code frequency. If the frequency gradually increases for no apparent cause, replace ACCESS 1.

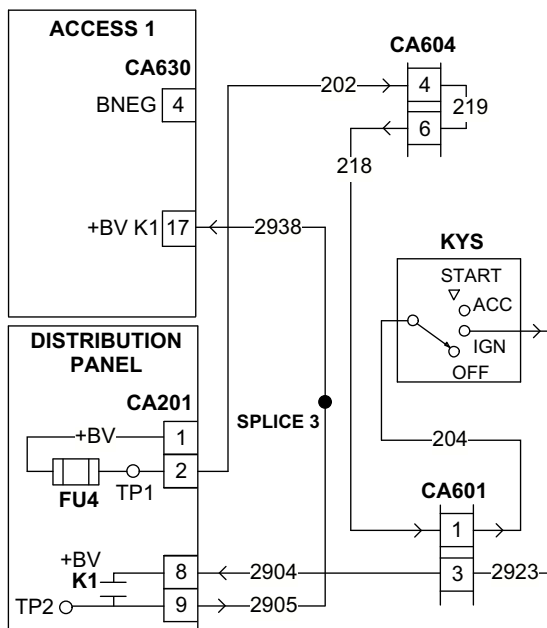


Fig. 5 (26748)

Event Code 114

The left brake (BRK2) circuit is a short circuit

Step 1: Disconnect CA627 and turn the truck ON.

- **If:** The Event Code clears or changes to 117.
 - Then replace the BRK2 coil.
- **If:** The Event Code does not clear.
 - Then connect CA627 and go to Step 2.

Step 2: Disconnect CA630 at ACCESS 1. Examine the resistance between CA630 1 and CA630 16.

- **If:** $< 5 \Omega$ or $> 15 \Omega$.
 - Then examine the wires and connections between CA630 and CA627.
- **If:** 5Ω to 15Ω .
 - Then replace ACCESS 1.

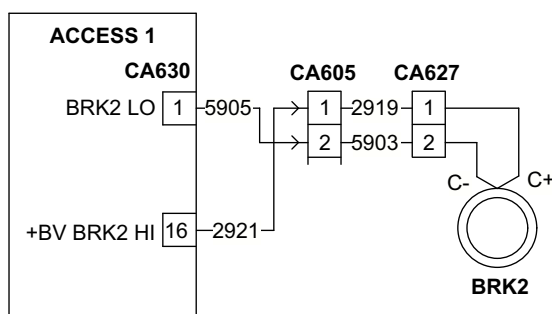


Fig. 6 (25204)

Event Code 115

The right brake (BRK1) circuit is a short circuit

Step 1: Disconnect CA628 and the truck ON.

- **If:** The Event Code clears or changes to 118.
 - Then replace the BRK1 coil.
- **If:** The Event Code does not clear.
 - Then connect CA628 and go to Step 2.

Step 2: Disconnect CA630 at ACCESS 1. Examine the resistance between CA630 2 and CA630 9.

- **If:** < 5 or $> 15 \Omega$.
 - Then examine the wires and connections between CA630 and CA628.
- **If:** 5 to 15Ω .
 - Then replace ACCESS 1.

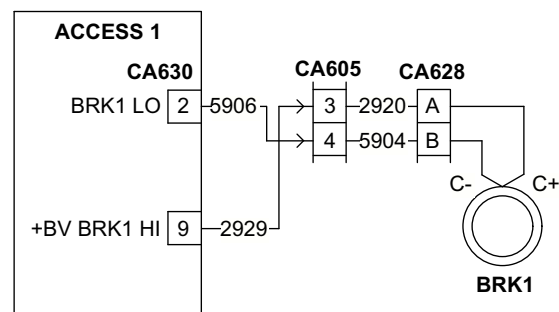


Fig. 7 (25205)

Event Code 116

The brake short circuit test is not in limits

Step 1: Turn the truck OFF and ON.

- **If:** The Event Code clears.
 - Then monitor the Event Code frequency.
- **If:** The Event Code does not clear.
 - Then replace ACCESS 1.

Note: If the truck operates, this could be a random nuisance code. Monitor the Event Code frequency. If the frequency gradually increases for no apparent cause, replace ACCESS 1.

Event Codes

Event Code 117

The left brake (BRK2) circuit is an open circuit

Note: ACCESS 1 momentarily applies 24 Vdc to the brake coil to release the brakes.

Step 1: Connect a DVOM to CA627-1 (+) and CA627-2 (-). Turn the truck ON and go to the ANALYZER Menu A4.1.4. Push ENTER to energize the left brake coil.

- **If:** 8 to 24 Vdc.
 - Then replace the BRK2 coil.
- **If:** < 8 Vdc.
 - Then go to Step 2.

Step 2: Connect a DVOM to CA630-16 (+) and CA630-1 (-). Turn the truck ON and go to the ANALYZER Menu A4.1.4. Push ENTER to energize the left brake coil.

- **If:** 8 to 24 Vdc.
 - Then examine the wires and connections between CA630 and CA627.
- **If:** < 8 Vdc.
 - Then replace ACCESS 1.

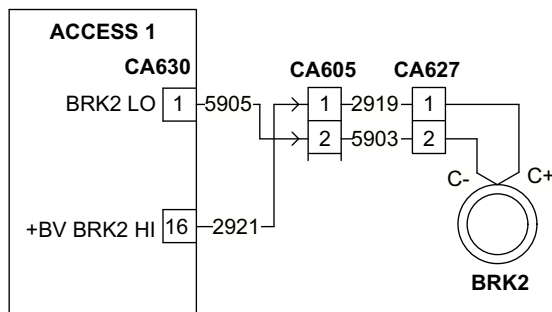


Fig. 8 (25204)

Event Code 118

The right brake (BRK1) circuit is an open circuit

Note: ACCESS 1 momentarily applies 24 Vdc to the brake coil to release the brakes.

Step 1: Connect a DVOM to CA628 A (+) and CA628 B (-). Turn the truck ON and go to the ANALYZER Menu A4.1.3. Push ENTER to energize the right brake coil.

- **If:** 12 to 24 Vdc.
 - Then replace the BRK1 coil.
- **If:** < 12 Vdc.
 - Then go to Step 2.

Step 2: Connect a DVOM to CA630-9 (+) and CA630-2 (-). Turn the truck ON and go to the ANALYZER Menu A4.1.3. Push ENTER to energize the right brake coil.

- **If:** 12 to 24 Vdc.
 - Then examine the wires and connections between CA630 and CA628.
- **If:** < 12 Vdc.
 - Then replace ACCESS 1.

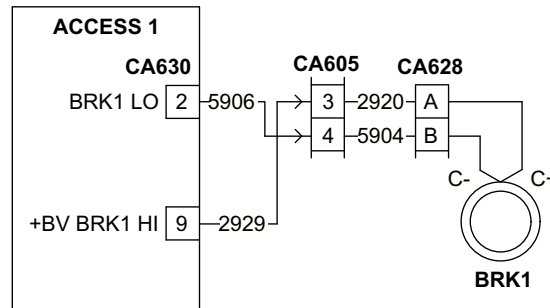


Fig. 9 (25205)

Event Code 119

The circuit for the pump contactor coil is a short circuit (DC hydraulic system only)

Step 1: Connect a DVOM to the 2951 (+) wire and 5910 (-) wire at the P coil. Turn the truck ON and go to the ANALYZER Menu A4.1.6. Push ENTER to energize the coil.

- **If:** 33 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then replace the coil.
- **If:** <33 Vdc (36 V truck) or 45 Vdc (48 V truck).
 - Then check for a missing positive or negative signal. If missing a negative signal, check the wires and connections between the coil and CA632-4. If missing a positive signal, check the wires and connections between the coil and CA632-5.

Note: If the truck has an AC hydraulic system, make sure that the setting for the FEATURES Menu F3 is correct. If correct and the event occurs, replace ACCESS 1.

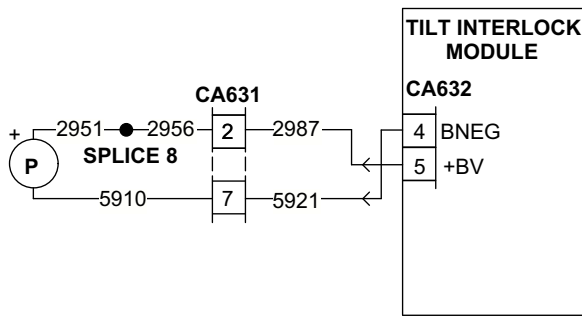


Fig. 10 (27625)

Event Code 119

The driver circuit for the bypass solenoid (SVBY) is a short circuit (AC hydraulic system and EPV only)

Step 1: Connect a DVOM to the 29252 (+) wire and 5955 (-) wire at the SVBY coil. Turn the truck ON and go to the ANALYZER Menu A4.1.10. Push ENTER to energize the bypass solenoid.

- **If:** 33 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then replace the bypass solenoid (SVBY) coil.
- **If:** <33 Vdc (36 V truck) or 45 Vdc (48 V truck).
 - Then examine the wires and connections between the SVBY coil and ACCESS 1. If they are good, replace ACCESS 1.

Note: If the truck has EPV, make sure that the setting for the FEATURES Menu F4 is correct. If correct and the event occurs, replace ACCESS 1.

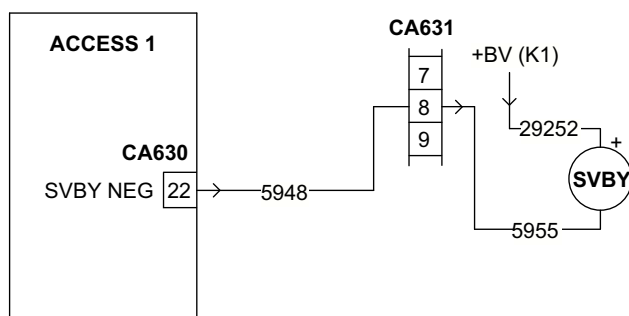


Fig. 11 (27257)

Event Code 121

The seat switch (SES) input to ACCESS 1 and ACCESS 3 is not the same

Step 1: Turn the truck ON and go to the ANALYZER Menu A2. Compare A2.1.1 and A2.3.4 with SES open and closed.

- **If:** A2.1.1 does not change from ON to OFF as SES opens and closes while A2.3.4 does.
 - Then go to Step 2.
- **If:** A2.3.4 does not change from ON to OFF as SES opens and closes while A2.1.1 does.
 - Then go to Step 3.
- **If:** A2.1.1 and A2.3.4 do not change from ON to OFF as SES opens and closes.
 - Then examine the seat switch, wires and connections.

Step 2: Connect a DVOM to CA630-8 (+) and CA630-4 (-). Turn the truck ON and go to the ANALYZER Menu A2.1.1.

- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck) and A2.1.1 shows OFF.
 - Then examine the circuit between CA411 and CA630-8.
- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck) and A2.1.1 shows ON.
 - Then replace ACCESS 1.
- **If:** 33 to 38 Vdc (36 V truck) or 45 to 51 Vdc (48 V truck) and A2.1.1 shows OFF.
 - Then replace ACCESS 1.

Step 3: Connect a DVOM to CA403-5 (+) and the BNEG terminal on ACCESS 3. Turn the truck ON and go to the ANALYZER Menu A2.3.4.

- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck) and A2.3.4 shows OFF.
 - Then examine the circuit between CA411 and CA403-5.
- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck) and A2.3.4 shows ON.
 - Then replace ACCESS 3.
- **If:** 33 to 38 Vdc (36 V truck) or 45 to 51 Vdc (48 V truck) and A2.3.4 shows OFF.
 - Then replace ACCESS 3.

Event Codes

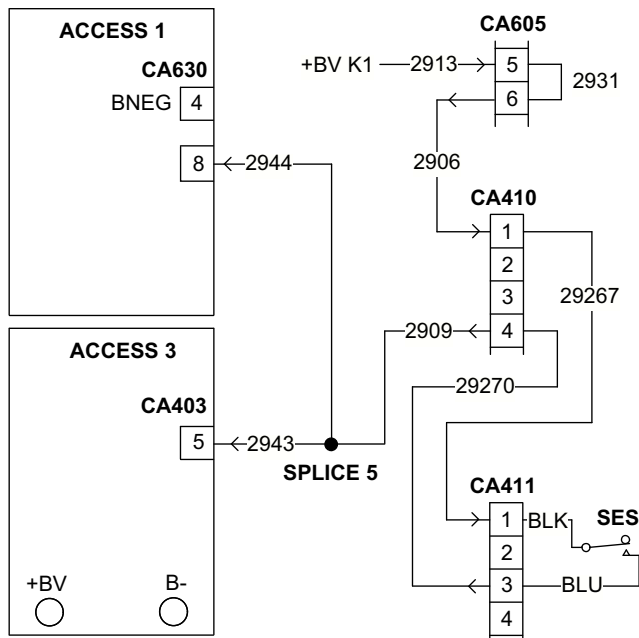


Fig. 12 (26749)

Event Code 122

The height switch (HGTS1) input to ACCESS 1 and ACCESS 3 is not the same

Step 1: Turn the truck ON and go to the ANALYZER Menu A2. Compare A2.1.2 and A2.3.5 with HGTS1 open and closed.

- **If:** A2.1.2 does not change from ON to OFF as HGTS1 opens and closes while A2.3.5 does.
– Then go to Step 2.
- **If:** A2.3.5 does not change from ON to OFF as HGTS1 opens and closes while A2.1.2 does.
– Then go to Step 3.
- **If:** A2.1.2 and A2.3.5 do not change from ON to OFF as HGTS1 opens and closes.
– Then examine the height switch, wires and connections.

Step 2: Connect a DVOM to CA630 15 (+) and CA630-4 (-). Turn the truck ON and go to the ANALYZER Menu A2.1.2.

- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck) and A2.1.2 shows OFF.
– Then examine the circuit between CA614 and CA630-15.
- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck) and A2.1.2 shows ON.
– Then replace ACCESS 1.

- **If:** 33 to 38 Vdc (36 V truck) or 45 to 51 Vdc (48 V truck) and A2.1.2 shows OFF.
– Then replace ACCESS 1.

Step 3: Connect a DVOM to CA403-10 (+) and the BNEG terminal on ACCESS 3. Turn the truck ON and go to the ANALYZER Menu A2.3.5.

- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck) and A2.3.5 shows OFF.
– Then examine the circuit between CA614 and CA403-10.
- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck) and A2.3.5 shows ON.
– Then replace ACCESS 3.
- **If:** 33 to 38 Vdc (36 V truck) or 45 to 51 Vdc (48 V truck) and A2.3.5 shows OFF.
– Then replace ACCESS 3.

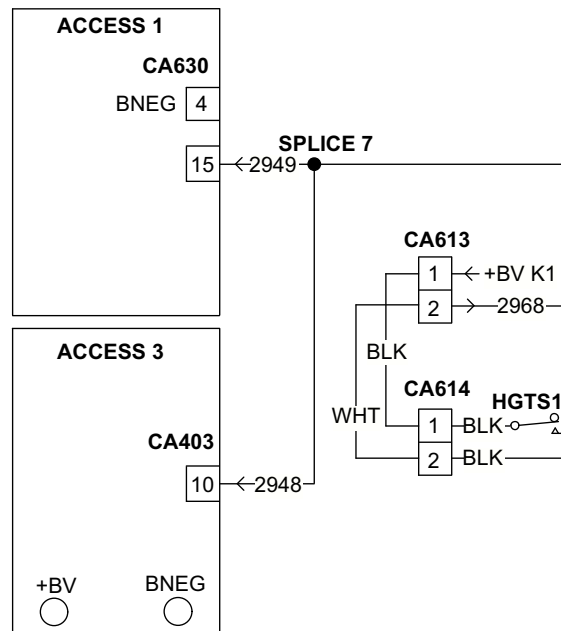


Fig. 13 (25208)

Event Code 123

The brake switch (BRKS1) input to ACCESS 1 and ACCESS 3 is not the same

Step 1: Turn the truck ON and go to the ANALYZER Menu A2. Compare A2.1.3 and A2.3.3 with BRKS1 open and closed.

Note: A2.3.3 will show a 1 (switch open) or 0 (switch closed) and POT2 percentage. For this Event Code only, the switch is used.

- **If:** A2.1.3 does not change from ON to OFF as BRKS1 opens and closes while A2.3.3 does.
 - Then go to Step 2.
- **If:** A2.3.3 does not change from ON to OFF as BRKS1 is opens and closes while A2.1.3 does.
 - Then go to Step 3.
- **If:** A2.1.3 and A2.3.3 do not change from ON to OFF as BRKS1 is opens and closes.
 - Then examine the brake switch, wires and connections.

Step 2: Connect a DVOM to CA630-14 (+) and CA630-4 (-). Turn the truck ON and go to the ANALYZER Menu A2.1.3.

- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck) and A2.1.3 shows OFF.
 - Then examine the wires and connections between BRKS1 and CA630-14.
- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck) and A2.1.3 shows ON.
 - Then replace ACCESS 1.
- **If:** 33 to 38 Vdc (36 V truck) or 45 to 51 Vdc (48 V truck) and A2.1.3 shows OFF.
 - Then replace ACCESS 1.

Step 3: Connect a DVOM to CA403 9 (+) and the BNEG terminal on ACCESS 3. Turn the truck ON and go to the ANALYZER Menu A2.3.3.

- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck) and A2.3.3 shows OFF.
 - Then examine the wires and connections between BRKS1 and CA403-9.
- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck) and A2.3.3 shows ON.
 - Then replace ACCESS 3.
- **If:** 33 to 38 Vdc (36 V truck) or 45 to 51 Vdc (48 V truck) and A2.3.3 shows OFF.
 - Then replace ACCESS 3.

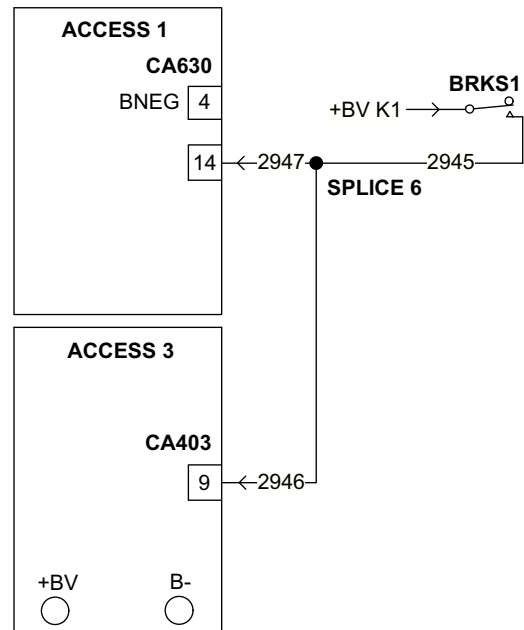


Fig. 14 (26750)

Event Codes

Event Code 124

The steer command encoder (ECR4) is out of range (AC hydraulic system only)

Step 1: Turn the truck ON, go to the ANALYZER Menu A2.1.10. Monitor the counts as the steering wheel slowly turns.

Note: The counts increase as the steering wheel turns in the clockwise direction and decreases as the steering wheel turns in the counterclockwise direction.

- **If:** The counts do not change or do not change smoothly as the steering wheel turns.
 - Then go to Step 2.
- **If:** The counts change smoothly as the steering wheel turns.
 - Then replace ACCESS 1.

Step 2: Connect a DVOM to CA630 10 (+) and CA630-12 (-).

- **If:** = 5 Vdc.
 - Then go to Step 3.
- **If:** < 5 Vdc.
 - Then replace ACCESS 1.

Step 3: Connect a DVOM to CA602-3 (+) and CA602-1 (-).

- **If:** = 5 Vdc.
 - Then examine the wires and connections between CA630 and CA602. Replace ECR4 if the wires and connections are good.
- **If:** < 5 Vdc.
 - Then examine the wires and connections between CA630 and CA602.

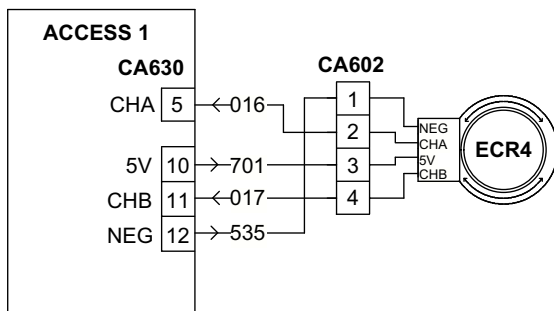


Fig. 15 (25210)

Event Code 125

No communication between ACCESS 1 and ACCESS 2

Step 1: Follow Event Code 102 procedures.

Note: If the truck operates, this could be a random nuisance code. Monitor the Event Code frequency. If the frequency gradually increases for no apparent cause, replace ACCESS 1.

Event Code 126

No communication between ACCESS 1 and ACCESS 3

Step 1: Follow Event Code 110 procedures.

Note: If the truck operates, this could be a random nuisance code. Monitor the Event Code frequency. If the frequency gradually increases for no apparent cause, replace ACCESS 1.

Event Code 127

The circuit for the zone select switch (ZSS) is an open circuit

Note: This event can occur if the truck does not have Zone Select and the FEATURES Menu F20.7 is set to ENABLE.

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.1.9.

- **If:** < 0.24 Vdc.
 - Then examine ZSS, wires and connections.
- **If:** > 0.24 Vdc
 - Then replace ACCESS 1.

Event Code 128

The hydraulic motor (M3) stopped (AC hydraulic system only)

Note: ACCESS 1 will show this event when ACCESS 2 does not sense counts from ECR3.

Note: A bad Tilt Back Switch (TBS) or a TBS that is not correctly adjusted can cause this event. The symptoms can include incorrect ECR3 feedback and very slow lift when HGST1 opens.

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.2.10. Pull the lift lever.

- **If:** 0 rpm.
 - Then go to Step 2.
- **If:** The RPMs increase as you pull the lever.
 - Then replace ACCESS 2.

Note: If the truck operates, this could be a random nuisance code. Monitor the Event Code frequency. If the frequency gradually increases for no apparent cause, replace ACCESS 2.

Step 2: Connect a DVOM to CA404-3 (+) and CA404-4 (-). Turn the truck ON. Pull the lift lever.

- **If:** 11 to 12 Vdc.
– Then go to Step 3.
- **If:** < 11 or > 12 Vdc.
– Then replace ACCESS 2.

Step 3: Connect a DVOM to CA408 3 (+) and CA408-6 (-). Pull the lift lever.

- **If:** 11 to 12 Vdc.
– Then go to Step 4.
- **If:** < 11 or > 12 Vdc.
– Then examine the wires and connections between ECR3 and CA404.

Step 4: Connect a DVOM to CA408-4 (+) and CA408-6 (-). Pull the lift lever.

- **If:** The voltage changes.
– Then go to Step 5.
- **If:** The voltage stays the same.
– Then replace ECR3.

Step 5: Connect a DVOM to CA408-5 (+) and CA408-6 (-). Pull the lift lever.

- **If:** The voltage changes.
– Then go to Step 6.
- **If:** The voltage stays the same.
– Then replace ECR3.

Step 6: Examine the wires and connections between CA408-4 and CA404-5, and CA408-5 and CA405-6.

- **If:** The connections are good.
– Then replace ACCESS 2.

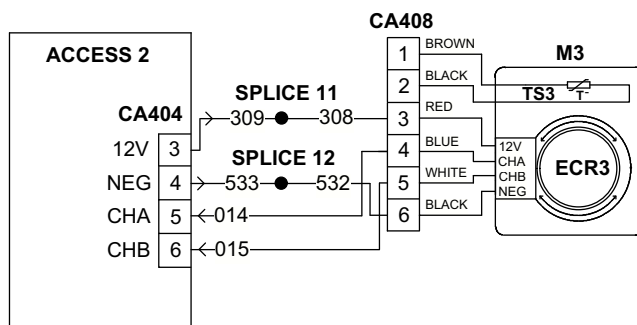


Fig. 16 (25211)

Event Code 130

The circuit for the zone select switch (ZSS) is a short circuit

Note: This event can occur if you set the Features Menu F20.7 to ENABLE and the truck does not have Zone Select.

Step 1: Disconnect ZSS and turn the truck ON.

- **If:** The Event Code clears or changes to 127.
– Then replace ZSS.
- **If:** The Event Code does not clear.
– Then continue to Step 2.

Step 2: Disconnect CA630 at ACCESS 1. Check the resistance between CA630-20 and ZSS.

- **If:** There is a short circuit.
– Then check wiring between CA630-20 and ZSS.
- **If:** There is an open circuit.
– Then replace ACCESS 1.

Event Code 131

ACCESS 1 shows the driver circuit for the status alarm (ALM1) is a short circuit

Note: This alarm is internal to ACCESS 1.

Step 1: Turn the truck OFF and ON.

- **If:** The Event Code does not clear.
– Then replace ACCESS 1.

Note: If the truck operates, this could be a random nuisance code. Monitor the Event Code frequency. If the frequency gradually increases for no apparent cause, replace ACCESS 1.

Event Code 132

Step 1: Follow Event Code 113 procedures.

Event Code 133

No communication between ACCESS 1 and ACCESS 7

Step 1: Follow Event Code 101 procedures.

Event Codes

Event Code 162

The load sense (PT) is out of range

Load on Forks		A2.1.6 Counts (± 100)
kg	lb	
0	0	250
455	1000	380
910	2000	500
1360	3000	630
1815	4000	750

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.1.6. With no load, raise the forks approximately 460 mm (18 in). Record the counts shown on ACCESS 1.

Step 2: Put approximately 455 kg (1000 lb) on the forks, raise the forks to 460 mm (18 in) and record the A2.1.6 counts. Slowly raise the load through staging and monitor the counts. The counts should increase as the mast stages.

- **If:** The counts do not change or do not make a large change from the step 1 counts.
 - Then replace PT.
- **If:** The counts are between 300 and 500 with the load at 460 mm (18 in) and gradually increase as the mast stages.
 - Then replace ACCESS 1.

Event Code 191

The software is not compatible

Note: To remove the Event Code, go to UTILITIES ► U4 CLEAR EEPROM ► CLEAR ACCESS 3 EEPROM.

- **If:** The software was downloaded.
 - Then clear the EEPROM and download the software again. Calibrate the truck.
- **If:** The software was not downloaded.
 - Then clear the EEPROM. If the Event Code occurs again, replace ACCESS 1. Then calibrate the truck.

Event Code 201

No communication between ACCESS 2 and ACCESS 1

Step 1: Follow Event Code 102 procedures.

Event Code 202

No communication between ACCESS 2 and ACCESS 7

Step 1: Follow Event Code 101 procedures.

Event Code 205

No communication between ACCESS 3 and ACCESS 2

Step 1: Follow Event Code 101 procedures.

Event Code 207

The lift potentiometer (POT4) is out of range (AC hydraulic system only)

Step 1: Turn the truck ON and go to ANALYZER Menu A2.2.9. Slowly pull the lift lever and monitor the voltage.

- **If:** The voltage starts at 0.10 Vdc and increases to 4.8 Vdc as you pull the lever fully.
 - Then calibrate the lift potentiometer (POT4). Go to the CALIBRATION Menu C4.1 LIFT POT.
- **If:** The voltage is > 4.8 Vdc or does not change when you pull the lever.
 - Then go to step 2.

Step 2: Connect a DVOM to CA404-3 (+) and CA404-4 (-). Turn the truck ON.

- **If:** = 11.3 Vdc.
 - Then go to step 3.
- **If:** < 10 Vdc.
 - Then replace ACCESS 2.

Step 3: Connect a DVOM to CA404-9 (+) and CA404-4 (-). Turn the truck ON.

- **If:** The voltage does not change as you pull the lift lever.
 - Then check the wires and connections between ACCESS 2 and POT4. Replace POT4 if the wires and connections are good.
- **If:** The voltage begins at 0.20 Vdc and increases to 11.3 Vdc as you pull the lever fully.
 - Then replace ACCESS 2.

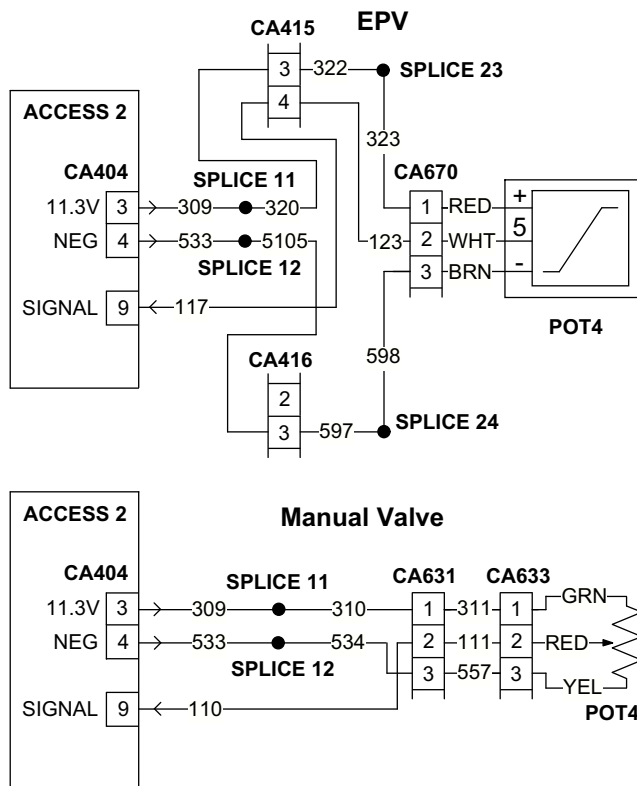


Fig. 17 (26752)

Event Code 208

The tilt potentiometer (POT5) is out of range (EPV only)

Step 1: Turn the truck ON and go to ANALYZER Menu A2.2.15. Slowly pull the tilt lever and monitor the voltage.

- **If:** The voltage starts at 0.10 Vdc and increases to 4.8 Vdc as you pull the lever fully.
 - Then calibrate the tilt potentiometer (POT5). Go to the CALIBRATION Menu C4.2 TILT POT.
- **If:** The voltage is > 4.8 Vdc or does not change when you pull the lever.
 - Then go to step 2.

Step 2: Connect a DVOM to CA404-3 (+) and CA404-4 (-). Turn the truck ON.

- **If:** = 11.3 Vdc.
 - Then go to step 3.
- **If:** < 10 Vdc.
 - Then replace ACCESS 2.

Step 3: Connect a DVOM to CA404-7 (+) and CA404-4 (-). Turn the truck ON.

- **If:** The voltage does not change as you pull the tilt lever.
 - Then check the wires and connections between ACCESS 2 and POT5. Replace POT5 if the wires and connections are good.
- **If:** The voltage starts at 0.20 Vdc and increases to 11.3 Vdc as you pull the lever fully.
 - Then replace ACCESS 2.

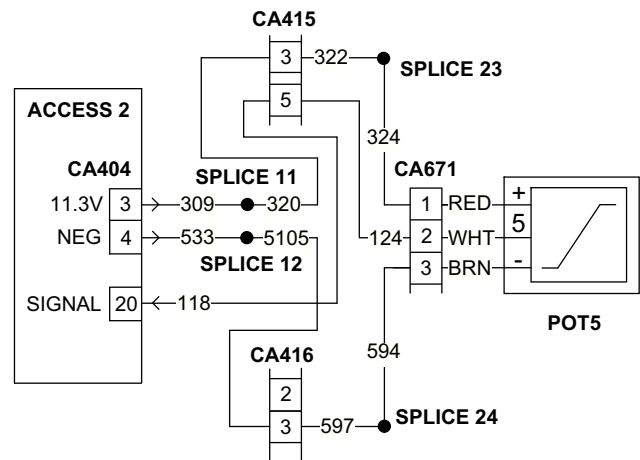


Fig. 18 (26753)

Event Code 209

The accessory 1 potentiometer (POT6) is out of range (EPV only)

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.2.16. Slowly pull the accessory 1 lever and monitor the voltage.

- **If:** The voltage starts at 0.10 Vdc and increases to 4.8 Vdc as you pull the lever fully.
 - Then calibrate the accessory 1 potentiometer (POT6). Go to the CALIBRATION Menu C4.3 ACCESSORY 1 POT.
- **If:** The voltage is > 4.8 Vdc or does not change when you pull the lever.
 - Then go to step 2.

Step 2: Connect a DVOM to CA404-3 (+) and CA404-4 (-). Turn the truck ON.

- **If:** = 11.3 Vdc.
 - Then go to step 3.
- **If:** < 10 Vdc.
 - Then replace ACCESS 2.

Event Codes

Step 3: Connect a DVOM to CA404-20 (+) and CA404-4 (-). Turn the truck ON.

- **If:** The voltage does not change as you pull the accessory 1 lever.
 - Then check the wires and connections between ACCESS 2 and POT6. Replace POT6 if the wires and connections are good.
- **If:** The voltage starts at 0.20 Vdc and increases to 11.3 Vdc as you pull the lever fully.
 - Then replace ACCESS 2.

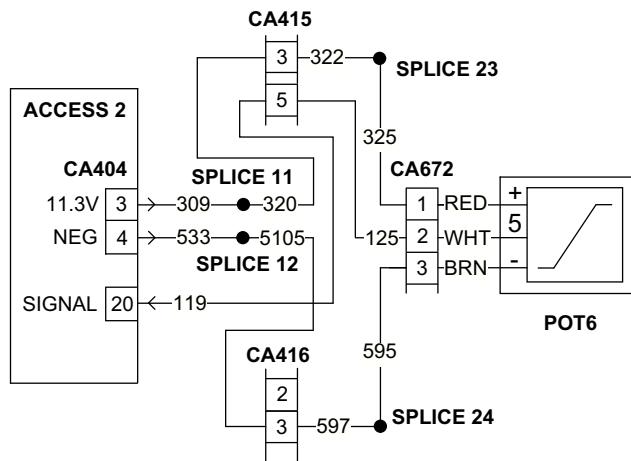


Fig. 19 (26754)

Event Code 210

TBS and TLT switch input to ACCESS 2 is not the same (Trucks with a manual valve only)

Step 1: Turn the truck ON and go to the ANALYZER Menu A2. Slowly pull the tilt lever and monitor A2.2.1 and A2.2.2.

- **If:** A2.2.1 does not change from OFF to ON as TLT opens and closes.
 - Then go to Step 2.
- **If:** A2.2.2 does not change from OFF to ON as TBS opens and closes.
 - Then go to Step 3.
- **If:** A2.2.1 and A2.2.2 do not change from OFF to ON as TLT and TBS open and close.
 - Then examine the switches, wires and connections.

Step 2: Connect a DVOM to CA631 6 (+) and CA631-3 (-). Turn the truck ON and go to the ANALYZER Menu A2.2.1.

- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck) and A2.2.1 shows ON.

– Then replace ACCESS 2.

- **If:** 33 to 38 Vdc (36 V truck) or 45 to 51 Vdc (48 V truck) and A2.2.1 shows OFF.
 - Then examine the circuit between CA404-14 and TLT.

Step 3: Connect a DVOM to CA631 5 (+) and CA631-3 (-). Turn the truck ON and go to the ANALYZER Menu A2.2.2.

- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck) and A2.2.1 shows ON.
 - Then replace ACCESS 2.
- **If:** 33 to 38 Vdc (36 V truck) or 45 to 51 Vdc (48 V truck) and A2.2.1 shows OFF.
 - Then examine the circuit between CA404-12 and TBS.

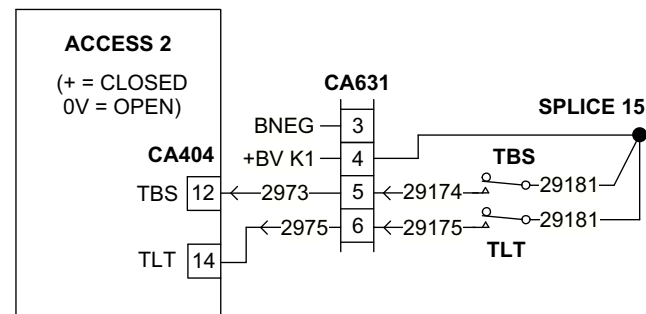


Fig. 20 (27528)

Event Code 221

The current sensor internal to ACCESS 2 is out of limits

Step 1: Turn the truck OFF and ON.

- **If:** The Event Code does not clear.
 - Then replace ACCESS 2.

Note: If the truck operates, this could be a random nuisance code. Monitor the Event Code frequency. If the frequency gradually increases for no apparent cause, replace ACCESS 2.

Event Code 222

ACCESS 2 senses low battery voltage in the power circuit

Note: This event can occur if the truck has an incorrect or an under charged battery. This event can also occur if the FEATURES Menu F3.4 is set incorrectly.

Step 1: Examine the connections of the line contactor coil and the condition of the line contactor tips. Examine FU2 and the cable connections between the line contactor and ACCESS 2.

- **If:** The line contactor, cables, FU2 and connections are good.
 - Then go to Step 2.

Step 2: Remove the power cables from the hydraulic motor (M3). Examine between the motor terminals and truck frame for a short circuit.

- **If:** There is a short circuit.
 - Then replace the hydraulic motor.
- **If:** There is an open circuit.
 - Then replace ACCESS 2.

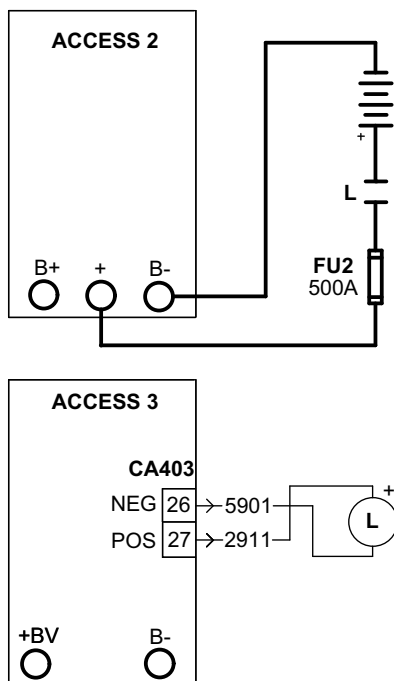


Fig. 21 (26778)

Event Code 223

ACCESS 2 senses high battery voltage in the power circuit

Note: This event can occur if the truck has an incorrect or an under charged battery. This event can also occur if the FEATURES Menu F3.4 is set incorrectly.

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.2.14.

- **If:** > 39 Vdc (36 V truck) or 52 Vdc (48 V truck).
 - Then make sure that the correct battery is installed in the truck and do C5 CALIBRATION.
- **If:** 35 to 39 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then replace ACCESS 2.

Event Code 224

The temperature of ACCESS 2 is <-25 °C (-13 °F)

Note: This event can occur if the truck is not used for long periods of time in temperatures below -25 °C (-13 °F).

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.2.13.

- **If:** < -25 °C (-13 °F).
 - Then examine the environment. Move the truck to an area where the temperature is above -25 °C (-13 °F). Then turn the truck OFF and then ON.
- **If:** > -25 °C (-13 °F).
 - Then replace ACCESS 2.

Event Code 225

The temperature of ACCESS 2 is < -45 °C (-49 °F)

Note: This event can occur if the truck is not used for long periods of time in temperatures below -45 °C (-49 °F). The Event Code is cleared when the ACCESS 2 temperature is -43 °C (-46 °F).

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.2.13.

- **If:** < -43 °C (-46 °F).
 - Then examine the environment. Move the truck to an area where the temperature is above -43 °C (-46 °F). Then turn the truck OFF and then ON.
- **If:** > -43 °C (-46 °F).
 - Then replace ACCESS 2.

Event Codes

Event Code 226

The temperature of ACCESS 2 is > 85 °C (185 °F)

Note: FAN2 is only on EE trucks with an AC hydraulic system.

Note: The truck will continue to operate but the performance, at times, will decrease to keep ACCESS 2 below the temperature limits. Slow air flow in the FAN1 and FAN2 duct can cause this event. Examine the duct for restrictions.

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.2.13. Close the seat switch.

- **If:** $\geq 85\text{ }^{\circ}\text{C}$ (185 °F).
 - Then follow Event Code 321 procedures.
- **If:** $< 85\text{ }^{\circ}\text{C}$ (185 °F).
 - Then turn the truck OFF and then ON. Replace ACCESS 2 if the Event Code does not clear.

Note: If FAN1 and FAN2 operate during the troubleshooting procedure and the event continues to occur, you can make the fans operate continuously. Set the FEATURES menu F7.1 to "Always On".

Event Code 227

The temperature of ACCESS 2 is > 105 °C (221 °F)

Note: FAN2 is only on EE trucks with an AC hydraulic system.

Note: The truck will continue to operate but the performance, at times, will decrease to keep ACCESS 2 below the temperature limits. Slow air flow in the FAN1 and FAN2 duct can cause this event. Examine the duct for restrictions. The Event Code is cleared when the ACCESS 2 temperature is 103 °C (218 °F).

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.2.13. The seat switch must be closed.

- **If:** $\geq 103\text{ }^{\circ}\text{C}$ (218 °F).
 - Then follow Event Code 321 procedures.
- **If:** $< 103\text{ }^{\circ}\text{C}$ (218 °F).
 - Then turn the truck OFF and then ON. Replace ACCESS 2 if the Event Code does not clear.

Note: If FAN1 and FAN2 operate during the troubleshooting procedure and the event continues to occur, you can make the fans operate continuously. Set the FEATURES menu F7.1 to "Always On".

Event Code 228

The hydraulic motor (M3) temperature is > 165 °C (329 °F)

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.2.12 (M3 temperature).

- **If:** The temperature is > 165 °C (329 °F).
 - Then go to Step 2.
- **If:** The temperature is < 165 °C (329 °F).
 - Then turn the truck OFF and then ON and monitor the event frequency.
- **If:** No temperature is shown.
 - Then examine the wires and connections between ACCESS 2 and the motor thermal sensors (TS3).

Step 2: Does the truck have very high duty cycles or operate in high temperatures?

- **If:** High duty cycles or high temperatures.
 - Then let the truck cool and continue to operate the truck.
- **If:** The truck does not become hot because of the above conditions.
 - Then go to Step 3.

Step 3: Turn the truck ON, go to the ANALYZER Menu A2.2.10 (M3 Speed). Pull the lift lever and monitor the motor encoder counts.

Note: The high motor temperature can be caused by incorrect encoder feedback.

- **If:** The encoder counts do not change smoothly with constant mast movement.
 - Then replace ECR3.
- **If:** The encoder counts correctly.
 - Then examine the wires and connections between ACCESS 2 and ECR3. Replace ACCESS 2 if the wires and connections are good.

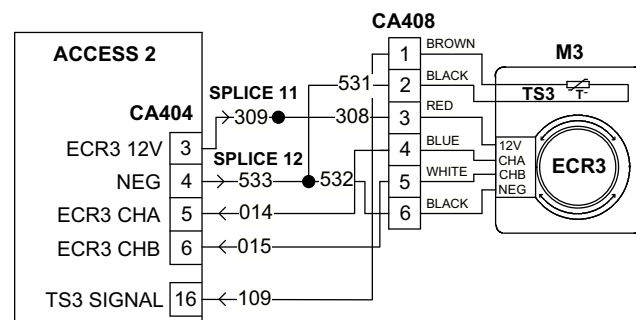


Fig. 22 (25214)

Event Code 229

The hydraulic motor (M3) temperature is > 180 °C (356 °F)

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.2.12 (M3 temperature).

- **If:** The temperature is > 180 °C (356 °F).
 - Then go to Step 2.
- **If:** The temperature is < 180 °C (356 °F).
 - Then turn the truck OFF and then ON and monitor the event frequency.
- **If:** No temperature is shown.
 - Then examine the wires and connections between ACCESS 2 and the motor thermal sensors (TS3).

Step 2: Does the truck have very high duty cycles or operate in high temperatures?

- **If:** High duty cycles or high temperatures.
 - Then let the truck cool and continue to operate the truck.
- **If:** The truck does not become hot because of the above conditions.
 - Then go to Step 3.

Step 3: Turn the truck ON, go to the ANALYZER Menu A2.2.10 (M3 Speed). Pull the lift lever and monitor the motor encoder counts.

Note: Incorrect encoder feedback can cause high motor temperature.

- **If:** The encoder counts do not change smoothly with constant mast movement.
 - Then replace ECR3.
- **If:** The encoder counts correctly.
 - Then examine the wires and connections between ACCESS 2 and ECR3. Replace ACCESS 2 if the wires and connections are good.

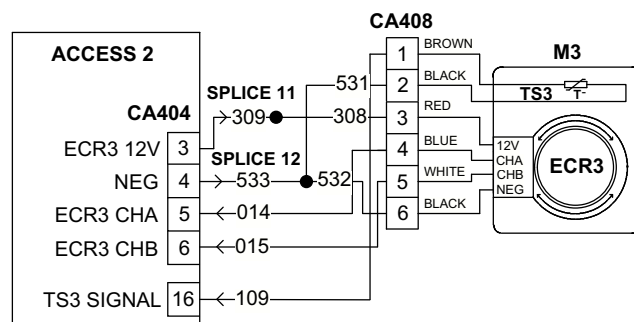


Fig. 23 (25214)

Event Code 230

The hydraulic motor encoder (ECR3) is out of range

Note: This event can occur if the weight on the forks is more than the truck capacity or the pump turns freely.

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.2.10 (M3 Speed). Pull the lift lever and monitor the motor encoder counts.

- **If:** 0 RPM or the RPMs do not increase smoothly.
 - Then go to Step 2.
- **If:** The RPMs increase smoothly.
 - Then replace ACCESS 2.

Step 2: Connect a DVOM to CA404-3 (+) and CA404-4 (-). Turn the truck ON.

- **If:** 11 to 12 Vdc.
 - Then go to Step 3.
- **If:** < 11 or > 12 Vdc.
 - Then replace ACCESS 2.

Step 3: Connect a DVOM to CA408-3 (+) and CA408-6 (-).

- **If:** 11 to 12 Vdc.
 - Then go to Step 4.
- **If:** < 11 or > 12 Vdc.
 - Then examine the wires and connections between ECR3 and CA404.

Step 4: Connect a DVOM to CA408-4 (+) and CA408-6 (-). Pull the lift lever.

- **If:** The voltage changes as the motor turns.
 - Then go to Step 5.
- **If:** The voltage is the same as the motor turns.
 - Then replace ECR3.

Step 5: Connect a DVOM to CA408-5 (+) and CA408-6 (-). Pull the lift lever.

- **If:** The voltage changes as the motor turns.
 - Then go to Step 6.
- **If:** The voltage is the same as the motor turns.
 - Then replace ECR3.

Step 6: Examine the wires and connections between CA408-4 and CA404-5, and between CA408-5 and CA404-6.

- **If:** The wires and connections are good.
 - Then replace ACCESS 2.

Event Codes

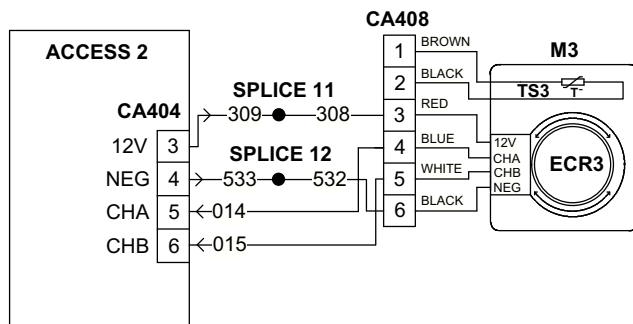


Fig. 24 (25211)

Event Code 231

ACCESS 2 senses the hydraulic motor (M3) stopped

Step 1: Follow Event Code 230 procedures.

Event Code 232

ACCESS 2 senses the hydraulic motor (M3) speed is too high

Step 1: Follow Event Code 230 procedures.

Event Code 233

ACCESS 2 senses low battery voltage (< 13 Vdc)

Note: This event can occur if the truck has an incorrect battery or it is necessary to charge the battery. This event can also occur if the FEATURES Menu F3.4 is set incorrectly.

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.2.14.

- **If:** < 13 Vdc.
 - Then examine the battery condition and do C5 CALIBRATION.
- **If:** > 13 Vdc.
 - Then replace ACCESS 2.

Event Code 234

ACCESS 2 senses very low battery voltage (< 10 Vdc)

Note: This event can occur if the truck has an incorrect or under charged battery. This event can also occur if FEATURES Menu F3.4 is set incorrectly.

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.2.14.

- **If:** < 10 Vdc.

- Then examine the battery condition and do C5 CALIBRATION.

- **If:** > 10 Vdc.
 - Then replace ACCESS 2.

Event Code 235

ACCESS 2 senses high battery voltage (> 60 Vdc)

Note: This event can occur if the truck has an incorrect or over charged battery. This event can also occur if FEATURES Menu F3.4 is set incorrectly.

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.2.14.

- **If:** > 60 Vdc.
 - Then examine the battery condition and do C5 CALIBRATION.
- **If:** < 60 Vdc.
 - Then replace ACCESS 2.

Event Code 236

ACCESS 2 senses very high battery voltage (> 63 Vdc)

Note: This event can occur if the truck has an incorrect or over charged battery. This event can also occur if FEATURES Menu F3.4 is set incorrectly.

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.2.14.

- **If:** > 63 Vdc.
 - Then examine the battery condition and do C5 CALIBRATION.
- **If:** < 63 Vdc.
 - Then replace ACCESS 2.

Event Code 237

ACCESS 2 senses the input voltage from the key switch is very low (< 7 Vdc)

Note: This event occurs when the battery voltage is low, the lift lever is pulled and the truck travels at the same time. If this is a random and intermittent event, examine the condition and charge of the battery. This event can occur if the truck has an incorrect battery and if the FEATURES Menu F3.4 is set incorrectly.

Step 1: Connect a DVOM to CA404-1 (+) and the BNEG terminal on ACCESS 2. Turn the truck ON and close the seat switch.

- **If:** < 8 Vdc.
 - Then go to Step 2.

- **If: > 8 Vdc.**
 - Then replace ACCESS 2.
- Step 2:** Connect a DVOM to CA201-9 (+) and TP3 (-) on the distribution/relay board.
- **If: < 8 Vdc.**
 - Then examine the wires and connections between battery +BV and CA201-9.
- **If: > 8 Vdc.**
 - Then examine the wires and connections between CA201-9 and CA404-1.

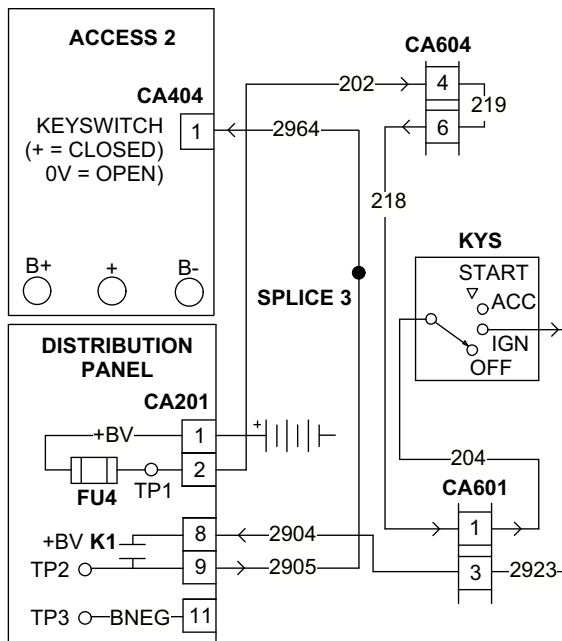


Fig. 25 (26755)

Event Code 238

ACCESS 2 senses the input voltage from the key switch is not constant

Note: This event can occur if the connections between the key switch and ACCESS 2 are loose. This event can also occur if the truck has an incorrect battery or it is necessary to charge the battery.

Step 1: Follow Event Code 237 procedures.

Event Code 239

ACCESS 2 senses the input voltage from the key switch is high (> 100 Vdc)

Note: This event can occur if there is a short circuit to the frame in the motor circuit. This event can also occur if the truck has an incorrect or under charged battery

and if the FEATURES Menu F3.4 is set incorrectly. The event is cleared when the input voltage from the key switch is 98 Vdc.

Step 1: Connect a DVOM to CA404-1 (+) and the BNEG terminal on ACCESS 2. Turn the truck ON and close the seat switch.

- **If: > 98 Vdc.**
 - Then go to Step 2.
- **If: < 98 Vdc.**
 - Then replace ACCESS 2.

Step 2: Connect a DVOM to CA201 9 (+) and TP3 (-) on the distribution/relay board.

- **If: > 98 Vdc.**
 - Then examine the wires and connections between battery +BV and CA201-9.
- **If: < 98 Vdc.**
 - Then examine the wires and connections between CA201-9 and CA404-1.

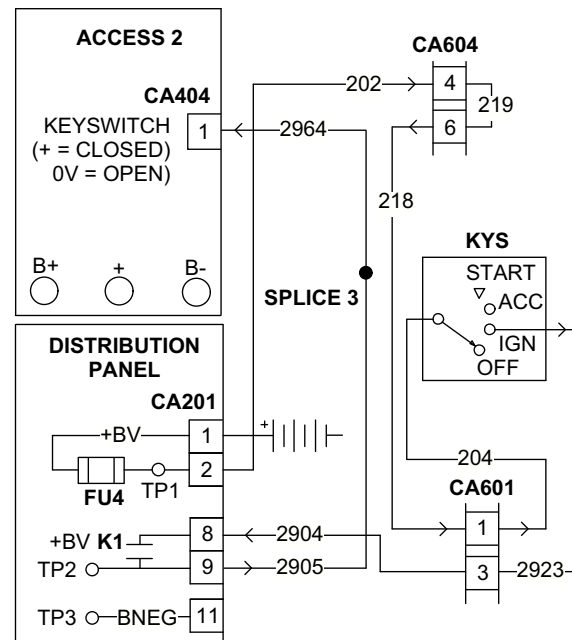


Fig. 26 (26755)

Event Codes

Event Code 240

Manual Valve - ACCESS 2 senses the circuit for tilt interlock solenoid (SV1) is a short circuit

Note: The SV1 and SPL coils are polarity sensitive. Before you disconnect the terminal wires, record the terminal wires location.

Step 1: Disconnect the wires 2967 and 5916 from SV1. Turn the truck ON.

- **If:** The event code does not continue or changes to 245.
 - Then replace the SV1 coil.
- **If:** The event code continues.
 - Then go to Step 2 (do not connect the wires to the coil).

Step 2: Turn the truck OFF and disconnect the battery. Disconnect CA404 at ACCESS 2 and CA201 at the distribution/relay board. Examine the resistance between wires 2967 and 5916.

- **If:** There is a short circuit.
 - Then examine the wires and connections between SV1, CA201 and CA404.
- **If:** There is an open circuit.
 - Then replace ACCESS 2.

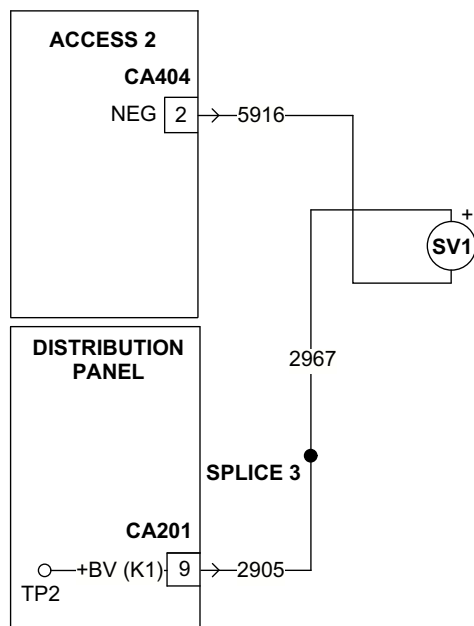


Fig. 27 (25217)

Event Code 240

EPV - ACCESS 2 senses the circuit for the proportional lowering solenoid (SPL) is a short circuit

Note: The SV1 and SPL coils are polarity sensitive. Before you disconnect the terminal wires, record the terminal wires location.

Step 1: Disconnect the wires 29249 and 5952 from SPL. Turn the truck ON.

- **If:** The event code does not continue or changes to 245.
 - Then replace the SPL coil.
- **If:** The event code continues.
 - Then go to Step 2 (do not connect the wires to the coil).

Step 2: Turn the truck OFF and disconnect the battery. Disconnect CA404 at ACCESS 2 and CA201 at the distribution/relay board. Examine the resistance between wires 29249 and 5952.

- **If:** There is a short circuit.
 - Then examine the wires and connections between SPL and CA404.
- **If:** There is an open circuit.
 - Then replace ACCESS 2.

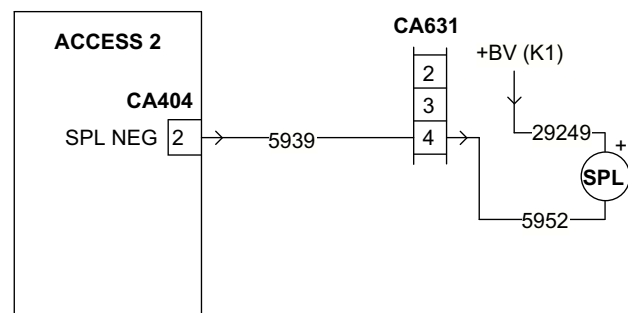


Fig. 28 (26756)

Event Code 241

Manual Valve - ACCESS 2 senses the circuit for the operator presence solenoid (SVOP) is a short circuit

Note: SVOP and SPTE coils are polarity sensitive. Before you disconnect the terminal wires, record the terminal wires location.

Step 1: Disconnect the wires 29103 and 5918 from SVOP. Turn the truck ON.

- **If:** The event code does not continue or changes to 246.
 - Then replace the SVOP coil.
- **If:** The event code continues.
 - Then go to Step 2 (do not connect the wires to the coil).

Step 2: Turn the truck OFF and disconnect the battery. Disconnect CA404 at ACCESS 2 and CA201 at the distribution/relay board. Examine the resistance between the wires 29103 and 5918.

- **If:** There is a short circuit.
 - Then examine the wires and connections between SVOP, CA201 and CA404.
- **If:** There is an open circuit.
 - Then replace ACCESS 2.

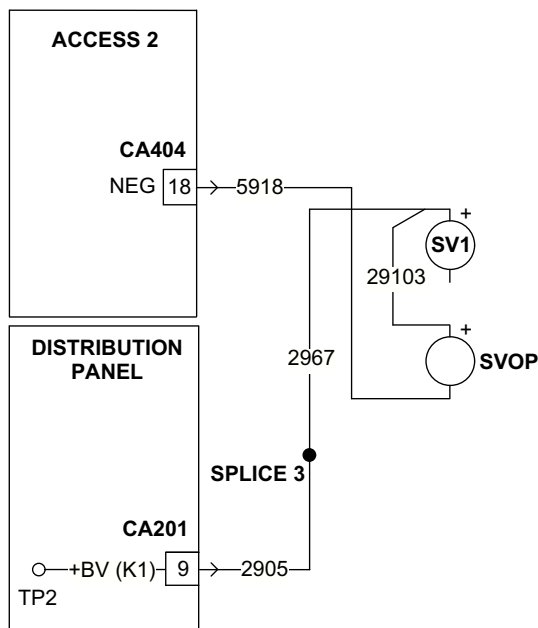


Fig. 29 (27533)

Event Code 241

EPV - ACCESS 2 senses the circuit for the tilt forward solenoid (SPTE) is a short circuit

Note: SVOP and SPTE coils are polarity sensitive. Before you disconnect the terminal wires, record the terminal wires location.

Step 1: Disconnect the wires 29251 and 5954 from SPTE. Turn the truck ON.

- **If:** The event code does not continue or changes to 246.
 - Then replace the SPTE coil.

- **If:** The event code continues.
 - Then go to Step 2 (do not connect the wires to the coil).

Step 2: Turn the truck OFF and disconnect the battery. Disconnect CA404 at ACCESS 2 and CA201 at the distribution/relay board. Examine the resistance between the wires 29251 and 5954.

- **If:** There is a short circuit.
 - Then examine the wires and connections between SVTE, CA201 and CA404.
- **If:** There is an open circuit.
 - Then replace ACCESS 2.

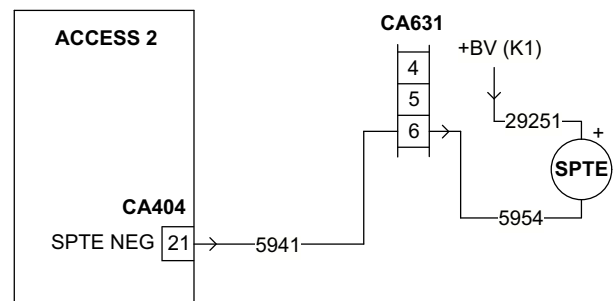


Fig. 30 (26757)

Event Code 242

Manual Valve - ACCESS 2 senses the circuit for the tilt position assist solenoid (SV3) is a short circuit

Note: SV3 and SPTR coils are polarity sensitive. Before you disconnect the terminal wires, record the terminal wires location.

Step 1: Disconnect the wires 2984 and 5919 from SV3. Turn the truck ON.

- **If:** The event code does not continue or changes to 247.
 - Then replace the SV3 coil.
- **If:** The event code continues.
 - Then go to Step 2 (do not connect the wires to the coil).

Step 2: Turn the truck OFF and disconnect the battery. Disconnect CA404 at ACCESS 2 and CA201 at the distribution/relay board. Examine the resistance between wires 2984 and 5919.

- **If:** There is a short circuit.
 - Then examine the wires and connections between SV3, CA201 and CA404.
- **If:** There is an open circuit.
 - Then replace ACCESS 2.

Event Codes

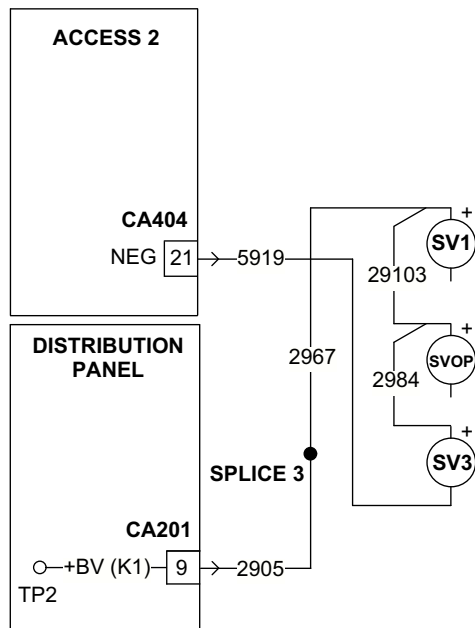


Fig. 31 (27534)

Event Code 242

EPV - ACCESS 2 senses the circuit for the tilt back solenoid (SPTR) is a short circuit

Note: SV3 and SPTR coils are polarity sensitive. Before you disconnect the terminal wires, record the terminal wires location.

Step 1: Disconnect the wires 29250 and 5953 from SPTR. Turn the truck ON.

- **If:** The event code does not continue or changes to 247.
 - Then replace the SPTR coil.
- **If:** The event code continues.
 - Then go to Step 2 (do not connect the wires to the coil).

Step 2: Turn the truck OFF and disconnect the battery. Disconnect CA404 at ACCESS 2 and CA201 at the distribution/relay board. Examine the resistance between wires 29250 and 5953.

- **If:** There is a short circuit.
 - Then examine the wires and connections between SPTR, CA201 and CA404.
- **If:** There is an open circuit.
 - Then replace ACCESS 2.

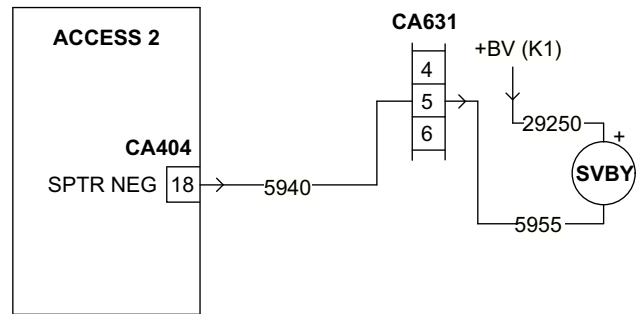


Fig. 32 (26758)

Event Code 243

ACCESS 2 senses the circuit for the accessory 1 proportional solenoid (SPA1A or SPA1B) is a short circuit (EPV only)

Note: SPA1A and SPA1B coils are polarity sensitive. Before you disconnect the terminal wires, record the terminal wires location.

Step 1: Disconnect the wires from the SPA1A coil. Turn the truck ON.

- **If:** The event code does not continue or changes to 248.
 - Then replace the coil.
- **If:** The event code continues.
 - Then go to Step 2 (do not connect the wires to the coil).

Step 2: Turn the truck OFF. Disconnect the wires from the SPA1B coil. Turn the truck ON.

- **If:** The event code does not continue or changes to 248.
 - Then replace the coil.
- **If:** The event code continues.
 - Then go to Step 3 (do not connect the wires to the coil).

Step 3: Turn the truck OFF and disconnect the battery. Disconnect CA404 at ACCESS 2 and CA201 at the distribution/relay board. Examine the resistance between wires at SPA1A and SPA1B.

- **If:** There is a short circuit.
 - Then examine the wires and connections between SPA1A, SPA1B, the distribution/relay panel (K3) and CA404.
- **If:** There is an open circuit.
 - Then replace ACCESS 2.

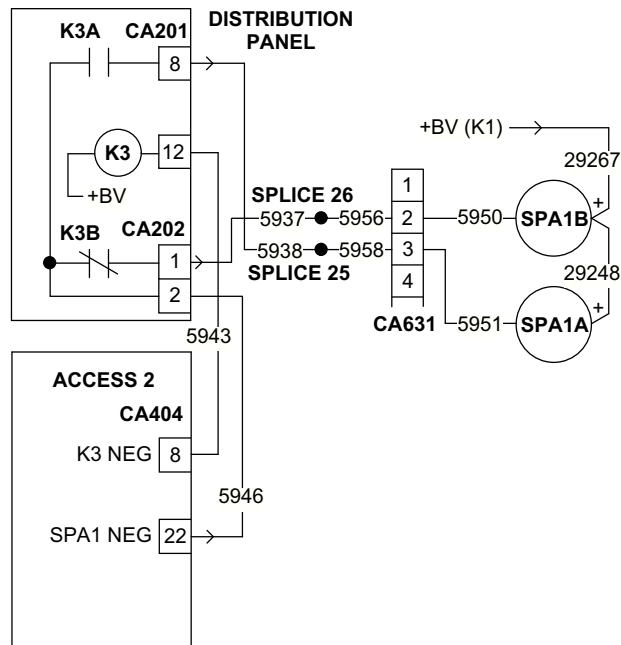


Fig. 33 (27529)

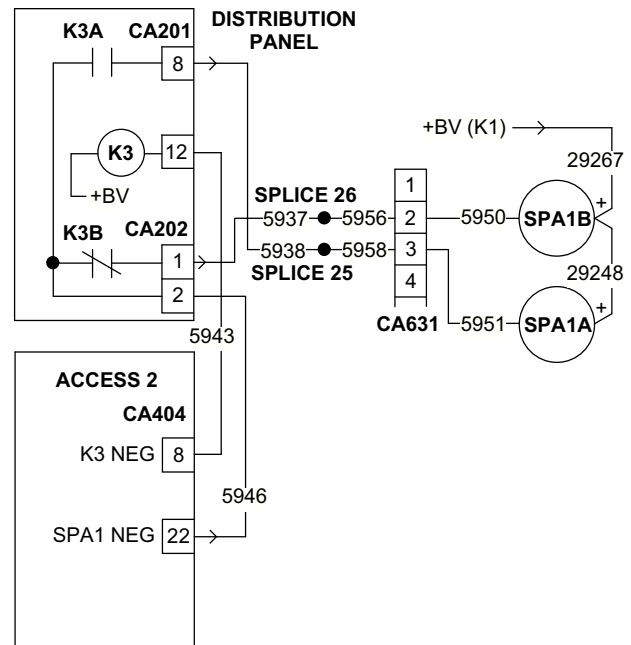


Fig. 34 (27529)

Event Code 244

ACCESS 2 senses the circuit for the accessory 1 relay coil (K3) is a short circuit (EPV only)

Step 1: Disconnect the wire 5943 from CA201-12 at the distribution/relay board. Turn the truck ON.

- **If:** The event code does not continue or changes to 249.
 - Then replace K3.
- **If:** The event code continues.
 - Then go to Step 2 (do not connect the wire 5943 to CA201-12).

Step 2: Turn the truck OFF and disconnect the battery. Disconnect CA404 at ACCESS 2. Examine the resistance in wire 5943 from CA201-12 to PC404-8.

- **If:** There is a short circuit.
 - Then examine the wire and connections between CA201 and CA404.
- **If:** The wire is good.
 - Then replace ACCESS 2.

Event Code 245

Manual Valve - ACCESS 2 senses the circuit for the tilt interlock solenoid (SV1) is an open circuit

Note: Examine the event code history. If there are many event codes for truck coils with open circuits, then first examine the positive circuit for the coils.

Step 1: Connect a DVOM to the wire 2967 (+) at SV1 and BNEG. Turn the truck ON.

- **If:** 33 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then go to Step 2.
- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck).
 - Then examine the wires and connections between CA201-9 and SV1 (+).

Step 2: Connect a DVOM to the wires 2967 (+) and 5916 (-) at SV1. Turn the truck ON and go to the ANALYZER Menu A4.2.1. Push ENTER to energize SV1.

- **If:** 22 to 26 Vdc.
 - Then replace the SV1 coil.
- **If:** < 22 Vdc.
 - Then go to Step 3.

Step 3: Connect a DVOM to CA201 9 (+) at the distribution/relay board and CA404-2 (-) at ACCESS 2. Turn the truck ON and go to the ANALYZER Menu A4.2.1. Push ENTER to energize SV1.

Event Codes

- **If: 22 to 26 Vdc.**
 - Then examine the wires and connections between SV1, CA201 and CA404.
- **If: < 22 Vdc.**
 - Then replace ACCESS 2.

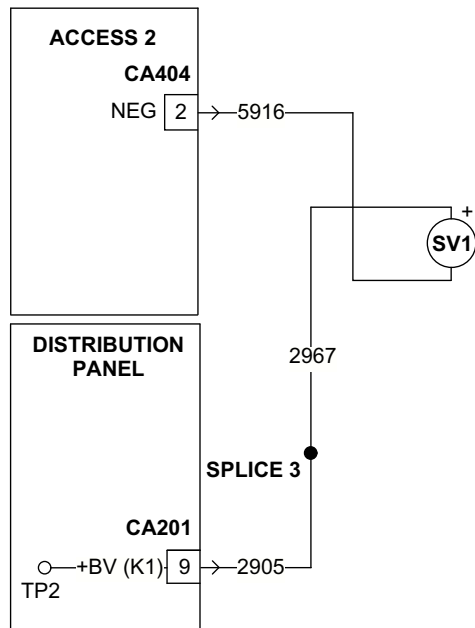


Fig. 35 (25217)

Event Code 245

EPV - ACCESS 2 senses the circuit for the proportional lowering solenoid (SPL) is an open circuit

Note: Examine the event code history. If there are many event codes for truck coils with open circuits, then first examine the positive circuit for the coils.

Step 1: Connect a DVOM to the wire 29249 (+) at SPL and BNEG. Turn the truck ON.

- **If: 33 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).**
 - Then go to Step 2.
- **If: < 33 Vdc (36 V truck) or 45 Vdc (48 V truck).**
 - Then examine the wires and connections between CA201-9 and SPL (+).

Step 2: Connect a DVOM to the wires 29249 (+) and 5952 (-) at SPL. Turn the truck ON and go to the ANALYZER Menu A4.2.8. Push ENTER to energize SPL.

- **If: 22 to 26 Vdc.**
 - Then replace the SPL coil.
- **If: < 22 Vdc.**
 - Then go to Step 3.

Step 3: Connect a DVOM to CA201-9 (+) at the distribution/relay board and CA404-2 (-) at ACCESS 2. Turn the truck ON and go to the ANALYZER Menu A4.2.8. Push ENTER to energize SPL.

- **If: 22 to 26 Vdc.**
 - Then examine the wires and connections between SPL7, CA201 and CA404.
- **If: < 22 Vdc.**
 - Then replace ACCESS 2.

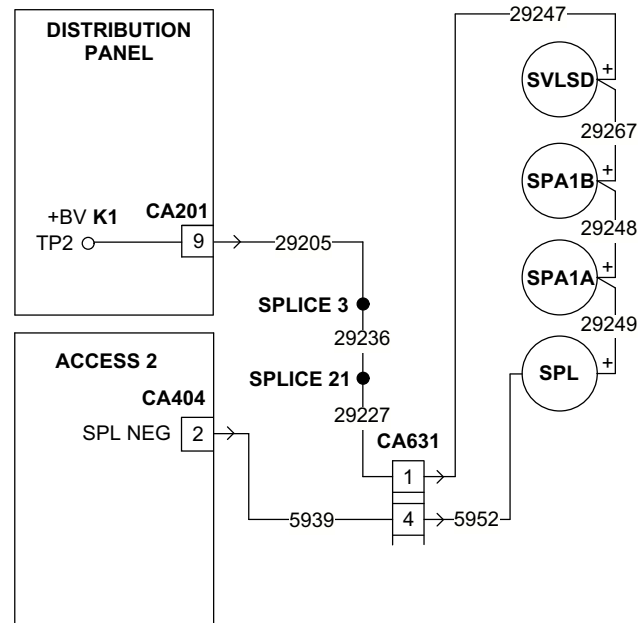


Fig. 36 (26763)

Event Code 246

Manual Valve - ACCESS 2 senses the circuit for the operator presence solenoid (SVOP) is an open circuit

Note: Examine the event code history. If there are many event codes for truck coils with open circuits, then first examine the positive circuit for the coils.

Step 1: Connect a DVOM to the wire 29103 (+) at SVOP and BNEG. Turn the truck ON.

- **If:** 33 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then go to Step 2.
- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck).
 - Then examine the wires and connections between CA201-9 and SVOP (+).

Step 2: Connect a DVOM to the wires 29103 (+) and 5918 (-) at SVOP. Turn the truck ON and go to the ANALYZER Menu A4.2.2. Push ENTER to energize SVOP.

- **If:** 22 to 26 Vdc.
 - Then replace the SVOP coil.
- **If:** < 22 Vdc.
 - Then go to Step 3.

Step 3: Connect a DVOM to CA201-9 (+) at the distribution/relay board and CA404-18 (-) at ACCESS 2. Turn the truck ON and go to the ANALYZER Menu A4.2.2. Push ENTER to energize SVOP.

- **If:** 22 to 26 Vdc.
 - Then examine the wires and connections between SVOP, CA201 and CA404.
- **If:** < 22 Vdc.
 - Then replace ACCESS 2.

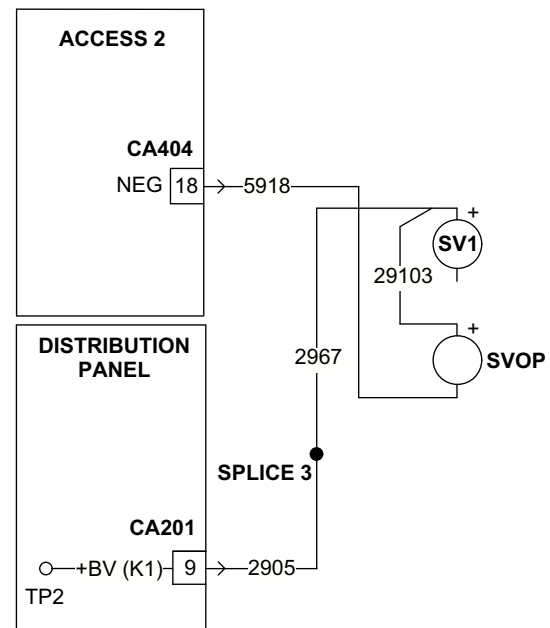


Fig. 37 (27533)

Event Code 246

EPV - ACCESS 2 senses the circuit for the tilt forward solenoid (SPTE) is an open circuit

Note: Examine the event code history. If there are many event codes for truck coils with open circuits, then first examine the positive circuit for the coils.

Step 1: Connect a DVOM to the wire 29251 (+) at SPTE and BNEG. Turn the truck ON.

- **If:** 33 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then go to Step 2.
- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck).
 - Then examine the wires and connections between CA201-9 and SPTE (+).

Step 2: Connect a DVOM to the wires 29251 (+) and 5954 (-) at SPTE. Turn the truck ON and go to the ANALYZER Menu A4.2.10. Push ENTER to energize SPTE.

- **If:** 22 to 26 Vdc.
 - Then replace the SPTE coil.
- **If:** < 22 Vdc.
 - Then go to Step 3.

Step 3: Connect a DVOM to CA201-9 (+) at the distribution/relay board and CA404-21 (-) at ACCESS 2. Turn the truck ON and go to the ANALYZER Menu A4.2.10. Push ENTER to energize SPTE.

Event Codes

- **If: 22 to 26 Vdc.**
 - Then examine the wires and connections between SPTE, CA201 and CA404.
- **If: < 22 Vdc.**
 - Then replace ACCESS 2.

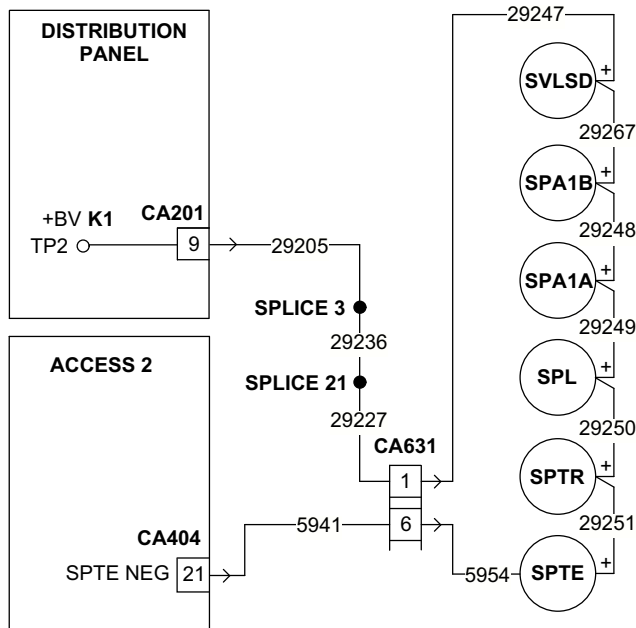


Fig. 38 (26761)

Event Code 247

Manual Valve - ACCESS 2 senses the circuit for the tilt position assist solenoid (SV3) is an open circuit

Note: Examine the event code history. If there are many event codes for truck coils with open circuits, then first examine the positive circuit for the coils.

Step 1: Connect a DVOM to the wire 2984 (+) at SV3 and BNEG. Turn the truck ON.

- **If: 33 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).**
 - Then go to Step 2.
- **If: < 33 Vdc (36 V truck) or 45 Vdc (48 V truck).**
 - Then examine the wires and connections between CA201-9 and SV3(+).

Step 2: Connect a DVOM to the wires 2984 (+) and 5919 (-) at SV3. Turn the truck ON and go to the ANALYZER Menu A4.2.3. Push ENTER to energize SV3.

- **If: 22 to 26 Vdc.**
 - Then replace the SV3 coil.
- **If: < 22 Vdc.**
 - Then go to Step 3.

Step 3: Connect a DVOM to CA201 9 (+) at the distribution/relay board and CA404 21 (-) at ACCESS 2. Turn the truck ON and go to the ANALYZER Menu A4.2.3. Push ENTER to energize SV3.

- **If: 22 to 26 Vdc.**
 - Then examine the wires and connections between SV3, CA201 and CA404.
- **If: < 22 Vdc.**
 - Then replace ACCESS 2.

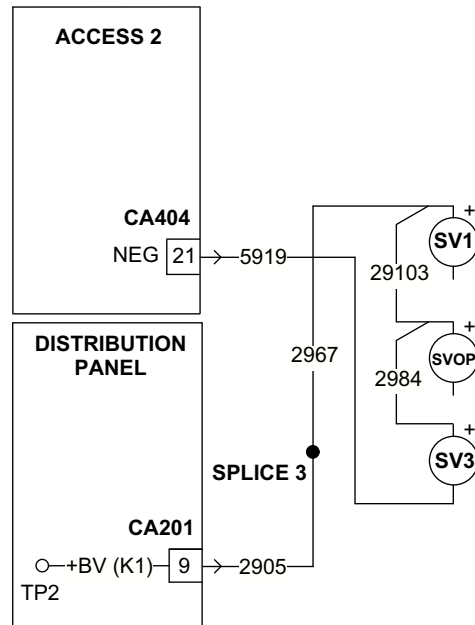


Fig. 39 (27534)

Event Code 247

EPV - ACCESS 2 senses the circuit for the tilt back solenoid (SPTR) is an open circuit

Note: Examine the event code history. If there are many event codes for truck coils with open circuits, then first examine the positive circuit for the coils.

Step 1: Connect a DVOM to the wire 29250 (+) at SPTR and BNEG. Turn the truck ON.

- **If:** 33 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then go to Step 2.
- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck).
 - Then examine the wires and connections between CA201-9 and SPTR (+).

Step 2: Connect a DVOM to the wires 29250 (+) and 5953 (-) at SPTR. Turn the truck ON and go to the ANALYZER Menu A4.2.9. Push ENTER to energize SPTR.

- **If:** 22 to 26 Vdc.
 - Then replace the SPTR coil.
- **If:** < 22 Vdc.
 - Then go to Step 3.

Step 3: Connect a DVOM to CA201-9 (+) at the distribution/relay board and CA404-18 (-) at ACCESS 2. Turn the truck ON and go to the ANALYZER Menu A4.2.9. Push ENTER to energize SPTR.

- **If: 22 to 26 Vdc.**
 - Then examine the wires and connections between SPTR, CA201 and CA404.
- **If: < 22 Vdc.**
 - Then replace ACCESS 2.

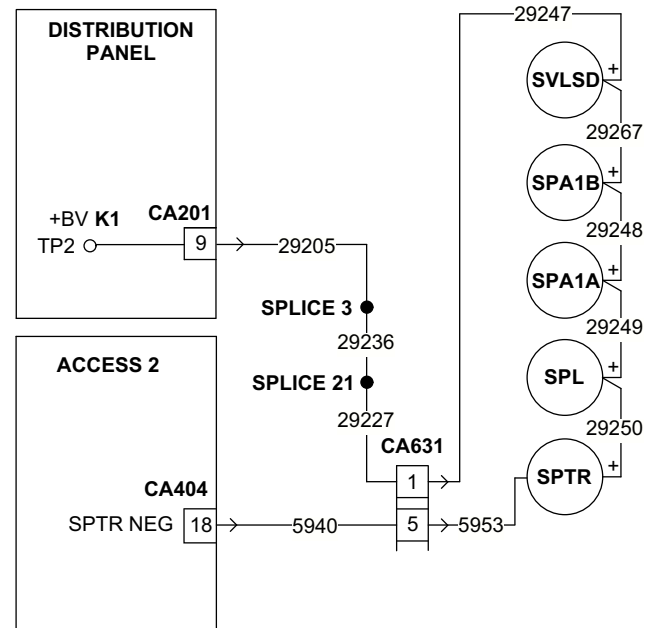


Fig. 40 (26762)

Event Code 248

ACCESS 2 senses the circuit for the accessory 1 proportional solenoid port A or B (SPA1A or SPA1B) is an open circuit (EPV only)

Step 1: Connect a DVOM to the wire 29248 (+) at SPA1A and BNEG. Turn the truck ON.

- **If:** 33 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then go to Step 2.
- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck).
 - Then examine the wires and connections between CA201-9 and SPA1A (+).

Step 2: Connect a DVOM to the wire 29267 (+) at SPA1B and BNEG. Turn the truck ON.

- **If:** 33 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then go to Step 3.
- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck).
 - Then examine the wires and connections between SPA1A and SPA1B (+).

Step 3: Connect a DVOM to (+BV) and (-) wires at SPA1A. Turn the truck ON and go to the Analyzer Menu A4.2.11. Push ENTER to energize SPA1A.

- **If: 22 to 26 Vdc.**
 - Then replace SPA1A coil.

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Event Code 250

Manual Valve - ACCESS 2 senses the driver circuit for the tilt interlock solenoid (SV1) is a short circuit

EPV - ACCESS 2 senses the driver circuit for the proportional lowering solenoid (SPL) is a short circuit

Step 1: Follow Event Code 240 procedures.

Event Code 251

Manual Valve - ACCESS 2 senses the driver circuit for the operator presence solenoid (SVOP) is a short circuit

EPV - ACCESS 2 senses the driver circuit for the tilt forward solenoid (SPTE) is a short circuit

Step 1: Follow Event Code 241 procedures.

Event Code 252

Manual Valve - ACCESS 2 senses the driver circuit for the tilt position assist solenoid (SV3) is a short circuit

EPV - ACCESS 2 senses the driver circuit for the tilt back solenoid (SPTR) is a short circuit

Step 1: Follow Event Code 242 procedures.

Event Code 253

ACCESS 2 senses the driver circuit for the accessory 1 proportional solenoid (SPA1A or SPA1B) is a short circuit (EPV only)

Step 1: Follow Event Code 243 procedures.

Event Code 254

ACCESS 2 senses the driver circuit for the accessory 1 relay coil (K3) is a short circuit (EPV only)

Step 1: Follow Event Code 244 procedures.

Event Code 255

ACCESS 2 senses high voltage to the coil(s)

Note: This event can occur if control power to ACCESS 2 is removed (i.e. loose connections in KYS circuit) while energizing SV1, SVOP, SV3 or FAN3. If the truck operates, this could be a random nuisance code. Monitor the code frequency. If it gradually increases for no apparent cause, replace ACCESS 2.

Step 1: Follow Event Code 237 procedures.

Event Code 256

ACCESS 2 senses the circuit for the line contactor (L) tips is an open circuit

Step 1: Examine the tip condition of the line contactor (L).

- **If:** The tip condition is good.
 - Then go to Step 2.

Step 2: Make sure that the line contactor tips close when the truck turns ON and the operator is in the seat.

- **If:** The contactor tips do not close.
 - Then go to Step 3.
- **If:** The contactor tips close.
 - Then go to Step 4.

Step 3: Connect a DVOM to the wires 2911 (+) and 5901 (-) at the line contactor coil (L). Turn the truck ON and go to the ANALYZER Menu A4.3.1. Push ENTER to energize the line contactor (L).

- **If:** < 34 Vdc (36 V truck) or 45 Vdc (48 V truck).
 - Then examine the battery condition and do the C5 CALIBRATION. Replace ACCESS 3 if the event codes occurs again.
- **If:** 34 to 39 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then replace the line contactor (L).

Step 4: Connect a DVOM to B+ and the BNEG terminal at ACCESS 2. Turn the truck ON and go to the ANALYZER Menu A4.3.1. Push ENTER to energize the line contactor (L).

- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck).
 - Then examine the battery condition and do the C5 CALIBRATION.
- **If:** 34 to 39 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then replace ACCESS 2.

Event Codes

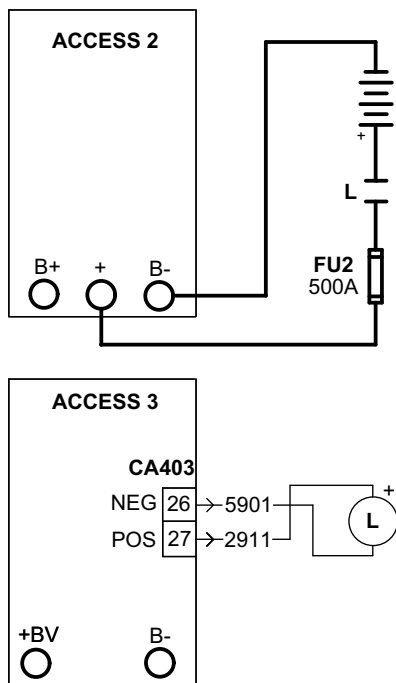


Fig. 43 (26778)

Event Code 257

ACCESS 2 senses that the line contactor (L) tips are welded

Step 1: Examine the condition of the line contactor tips.

- **If:** The tips are good.
– Then go to Step 2.

Note: The ACCESS 2 internal capacitors charge when the truck turns ON. Voltage can be at the B+ and BNEG terminals on ACCESS 2 for approximately 10 minutes after the truck turns OFF.

Step 2: Connect a DVOM to the B+ and BNEG terminals on ACCESS 2. The truck must be turned OFF.

- **If:** 34 to 39 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
– Then the ACCESS 2 power circuit is a short circuit, between the battery and ACCESS 2.
- **If:** The voltage continuously decreases toward or at 0 Vdc.
– Then replace ACCESS 2.

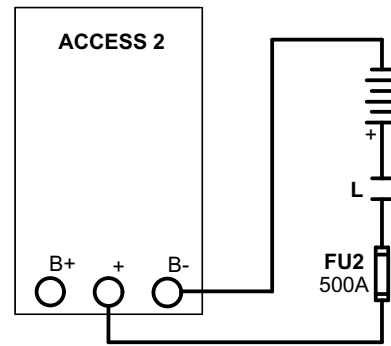


Fig. 44 (26777)

Event Code 258

ACCESS 2 precharge is above the electrical limit

Step 1: Follow Event Code 238 procedures.

Event Code 259

ACCESS 2 precharge is out of parameters

Step 1: Follow Event Code 238 procedures.

Event Code 260

ACCESS 2 precharge is a short circuit

Step 1: Follow Event Code 238 procedures.

Event Code 261

ACCESS 2 CALIBRATION memory has changed to the factory default settings

Step 1: Calibrate the truck.

- **If:** The event code continues.
– Then replace ACCESS 2.

Event Code 264

The 5 V power supply that is internal to ACCESS 2 supplies too much voltage

Note: This event can occur if the control or power circuits are a short circuit. Make sure that no bare wires or cables touch the frame. Examine the control wires, power cables and connections.

Step 1: Connect a DVOM to CA404 1 (+) and the BNEG terminal at ACCESS 2.

- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck).
– Then examine the KYS circuit.

- **If:** > 33 Vdc (36 V truck) or 45 Vdc (48 V truck).
 - Then replace ACCESS 2.

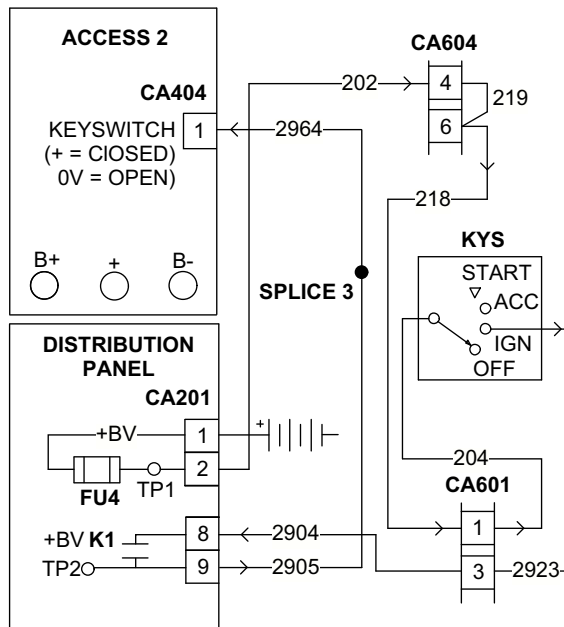


Fig. 45 (26766)

Event Code 265

The 5 V power supply that is internal to ACCESS 2 does not supply sufficient voltage

Note: This event can occur if the control or power circuits are a short circuit. Make sure that no bare wires or cables touch the frame. Examine the control wires, power cables and connections.

Step 1: Connect a DVOM to CA404 1 (+) and the BNEG terminal at ACCESS 2.

- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck).
 - Then examine the KYS circuit.
- **If:** > 33 Vdc (36 V truck) or 45 Vdc (48 V truck).
 - Then replace ACCESS 2.

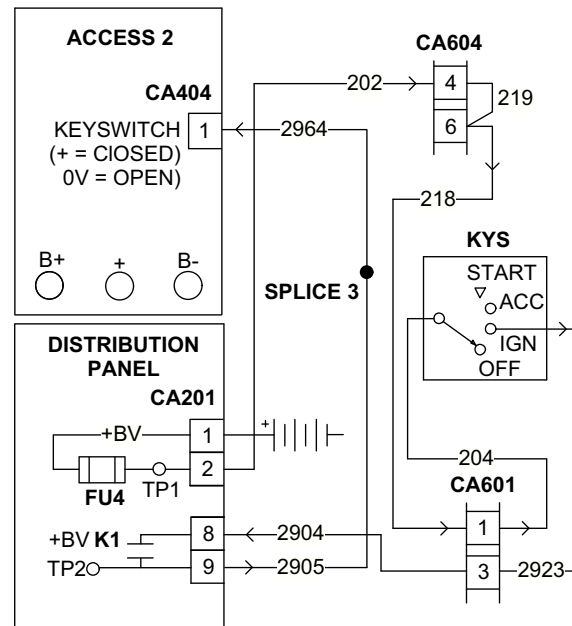


Fig. 46 (26766)

Event Code 266

The 12 V power supply that is internal to ACCESS 2 supplies too much voltage

Note: This event can occur if the ECR3, POT4 or TS3 circuit is a short circuit.

Step 1: Disconnect CA408. Turn the truck ON.

- **If:** The event code changes.
 - Then replace ECR3.
- **If:** The event code continues.
 - Then go to Step 2 (do not connect CA408).

Step 2: Disconnect CA633 on manual valve trucks or CA670 on EPV trucks. Turn the truck ON.

- **If:** The event code changes.
 - Then replace POT4.
- **If:** The event code continues.
 - Then examine the wires and connections between CA633 or CA670, CA408 and CA404. Replace ACCESS 2 if the wires and connections are good.

Event Codes

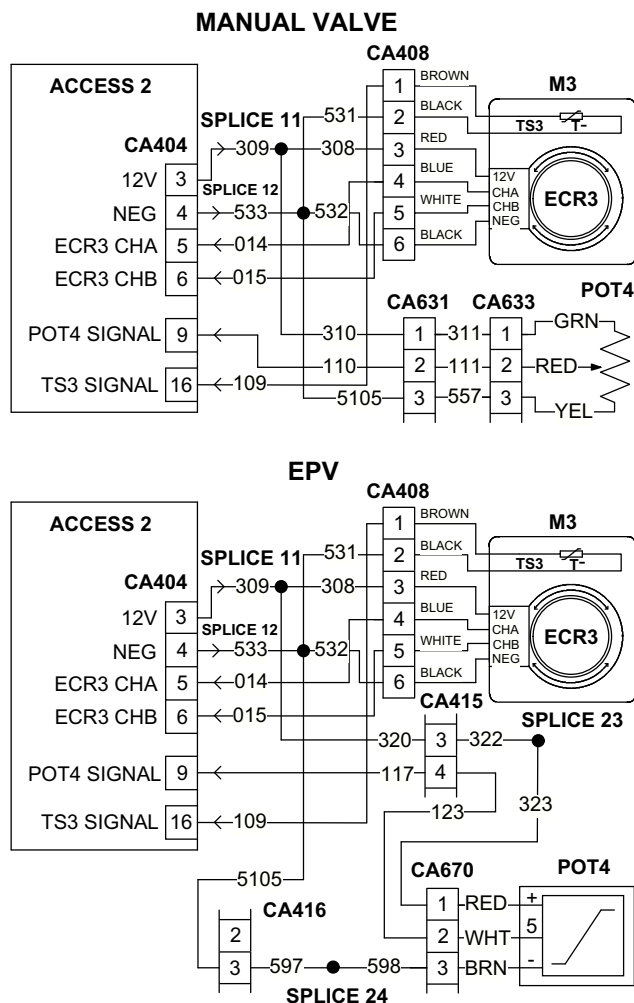


Fig. 47 (26768)

Event Code 267

The 12 V power supply that is internal to ACCESS 2 does not supply sufficient voltage

Step 1: Follow Event Code 266 procedures.

Event Code 268

The 15 V power supply that is internal to ACCESS 2 supplies too much voltage

Step 1: Follow Event Code 265 procedures.

Event Code 269

The 15 V power supply that is internal to ACCESS 2 does not supply sufficient voltage

Step 1: Follow Event Code 265 procedures.

Event Code 270

The 5 V power supply that is internal to ACCESS 2 supplies too much voltage

Step 1: Follow Event Code 265 procedures.

Event Code 271

The 5 V power supply that is internal to ACCESS 2 does not supply sufficient voltage

Step 1: Follow Event Code 265 procedures.

Event Code 272

ACCESS 2 227 millivolt reference supplies too much voltage

Step 1: Follow Event Code 265 procedures.

Event Code 273

ACCESS 2 227 millivolt reference does not supply sufficient voltage

Step 1: Follow Event Code 265 procedures.

Event Code 274

ACCESS 2 2.5 V reference supplies too much voltage

Step 1: Follow Event Code 265 procedures.

Event Code 275

ACCESS 2 2.5 V reference does not supply sufficient voltage

Step 1: Follow Event Code 265 procedures.

Event Code 276

ACCESS 2 analog BNEG supplies too much voltage

Step 1: Follow Event Code 265 procedures.

Event Code 277

ACCESS 2 analog BNEG does not supply sufficient voltage

Step 1: Follow Event Code 265 procedures.

Event Code 278

ACCESS 2 senses too much current in the power circuit for the hydraulic motor (M3)

Step 1: Remove the power cables from hydraulic motor (M3). Examine for a short circuit between the motor terminals and the truck frame.

- **If:** There is a short circuit.
 - Then replace the hydraulic motor.
- **If:** There is an open circuit.
 - Then replace ACCESS 2.

Event Code 279

ACCESS 2 senses the power circuit for the hydraulic motor (M3) is a short circuit

Step 1: Follow Event Code 278 procedures.

Event Code 280

ACCESS 2 senses the power circuit for the hydraulic motor (M3) is a short circuit

Step 1: Follow Event Code 278 procedures.

Event Code 281

ACCESS 2 senses a short circuit between the U terminal on the hydraulic motor (M3) and +BV

Step 1: Disconnect the power cable from the U terminal on ACCESS 2. Turn the truck ON.

- **If:** The event code changes or does not continue
 - Then there is a short circuit in the power cables or hydraulic motor.
- **If:** The event code continues.
 - Then replace ACCESS 2.

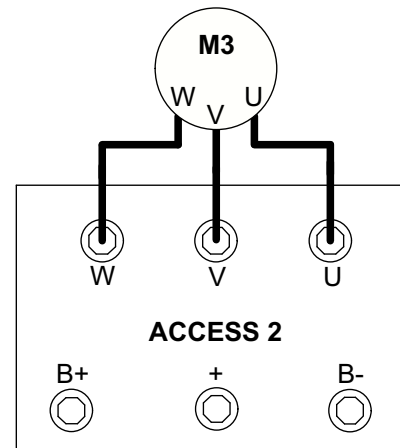


Fig. 48 (27535)

Event Code 282

ACCESS 2 senses a short circuit between the U terminal on the hydraulic motor (M3) and BNEG

Step 1: Follow Event Code 281 procedures.

Event Code 283

ACCESS 2 senses a short circuit between the V terminal on the hydraulic motor (M3) and +BV

Step 1: Disconnect the power cable from the V terminal on ACCESS 2. Turn the truck ON.

- **If:** The event code changes or does not continue.
 - Then there is a short circuit in the power cables or hydraulic motor.
- **If:** The event code continues.
 - Then replace ACCESS 2.

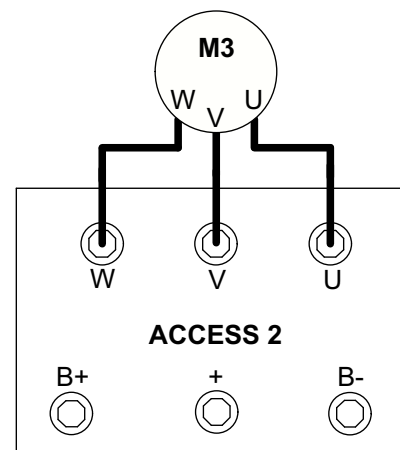


Fig. 49 (27535)

Event Codes

Event Code 284

ACCESS 2 senses a short circuit between the V terminal on the hydraulic motor (M3) and BNEG

Step 1: Follow Event Code 283 procedures.

Event Code 285

ACCESS 2 senses a short circuit between the W terminal on the hydraulic motor (M3) and +BV

Step 1: Disconnect the power cable from the W terminal on ACCESS 2. Turn the truck ON.

- If: The event code changes or does not continue.
 - Then there is a short circuit in the power cables or hydraulic motor.
- If: The event code continues.
 - Then replace ACCESS 2.

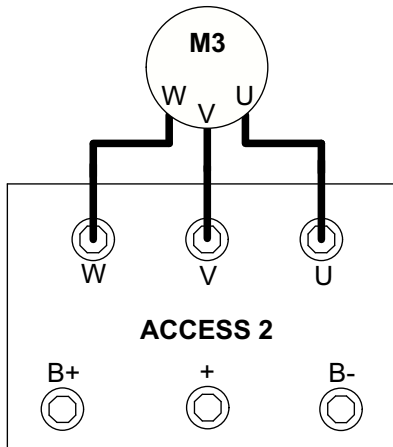


Fig. 50 (27535)

Event Code 286

ACCESS 2 senses a short circuit between the W terminal on the hydraulic motor (M3) and BNEG

Step 1: Follow Event Code 281 procedures.

Event Code 287

ACCESS 2 senses the power circuit between the U and V terminals of the hydraulic motor (M3) is a short circuit

Step 1: Follow Event Code 281 procedures.

Event Code 288

ACCESS 2 senses the power circuit between the U and V terminals of the hydraulic motor (M3) is a short circuit

Step 1: Follow Event Code 281 procedures.

Event Code 289

ACCESS 2 senses the power circuit between the U and V terminals of the hydraulic motor (M3) is a short circuit

Step 1: Follow Event Code 281 procedures.

Event Code 290

ACCESS 2 senses the power circuit between the V and W terminals of the hydraulic motor (M3) is a short circuit

Step 1: Follow Event Code 283 procedures.

Event Code 291

ACCESS 2 senses the power circuit between the V and W terminals of the hydraulic motor (M3) is a short circuit

Step 1: Follow Event Code 283 procedures.

Event Code 292

ACCESS 2 senses the power circuit between the V and W terminals of the hydraulic motor (M3) is a short circuit

Step 1: Follow Event Code 283 procedures.

Event Code 293

ACCESS 2 senses the power circuit between the U and W terminals of the hydraulic motor (M3) is a short circuit

Step 1: Follow Event Code 285 procedures.

Event Code 294

ACCESS 2 senses the power circuit between the U and W terminals of the hydraulic motor (M3) is a short circuit

Step 1: Follow Event Code 285 procedures.

Event Code 295

ACCESS 2 senses the power circuit between the U and W terminals of the hydraulic motor (M3) is a short circuit

Step 1: Follow Event Code 285 procedures.

Event Code 300

Step 1: Turn the truck ON, close the seat switch and examine the line contactor (L).

- **If:** The line contactor tips are closed.
 - Then follow Event Code 303 procedures.
- **If:** The line contactor tips are open.
 - Then follow Event Code 312 procedures.

Note: If the truck operates, this could be a random nuisance code. Monitor the code frequency. If the frequency gradually increases for no apparent cause, replace ACCESS 3.

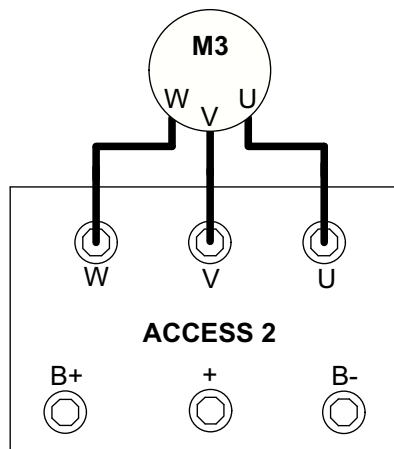


Fig. 51 (27535)

Event Code 301

ACCESS 3 senses that the internal current is more than the limit

Step 1: Put blocks below the power unit so the drive tires are off the floor (refer to Crown Service and Parts Manual ► SAFETY ► Control of Hazardous Energy ► Lifting and Blocking). Release the brakes (refer to Crown Service and Parts Manual ► SAFETY ► Control of Hazardous Energy ► Releasing Brakes).

Step 2: Turn the drive tires manually to make sure that the traction motor(s) are not locked.

- **If:** The motor(s) does not turn freely.

- Then examine for issues internal to the traction motor(s), drive unit(s) or brake(s).

- **If:** The motor(s) turns freely.

- Then go to Step 3.

Step 3: Examine the motor and ACCESS 3 power cables and connections.

- **If:** The cables and connections are good.

- Then replace ACCESS 3.

Event Code 302

ACCESS 3 senses the voltage in the feedback circuit for the traction motor(s) is out of range

Note: A bad line contactor (L) can cause this event. Access 1 2 3 ® can record this event after the truck temperature increases to the usual temperature of operation. The symptoms can be intermittent. Event Code 306 can follow this event.

Step 1: Make sure that the power cables connect to the correct terminals of traction motors and to ACCESS 3.

- **If:** The cable connections are correct.

- Then go to Step 2.

Step 2: Examine for a short circuit between the traction motors and frame. Remove the power cables from the WM, VM and UM terminals on M1 and the WS, VS and US terminals on M2. Examine the resistance from each motor terminal to the truck frame.

- **If:** There is a short circuit.

- Then replace the motor.

- **If:** There is an open circuit.

- Then replace ACCESS 3.

Event Code 303

ACCESS 3 senses that there is not sufficient voltage or too much voltage at the key switch input

Note: The voltage range is 15 Vdc to 65 Vdc. If this event code occurs:

- When the truck turns ON
- When the truck is at idle, or
- When the operator moves the direction lever to the forward or reverse position.

The event is likely the cause of not sufficient voltage. If this event occurs:

- During plug braking.

The event is likely the cause of too much voltage. Examine the battery condition and charge.

Event Codes

Step 1: Connect a DVOM to CA403-3 (+BV) and the BNEG terminal on ACCESS 3. Turn the truck ON and close the seat switch.

- **If:** < 15 or > 65 Vdc.
 - Then go to Step 2.
- **If:** 15 to 65 Vdc.
 - Then replace ACCESS 3.

Step 2: Connect a DVOM to CA201 6 (+BV) and TP3 (BNEG) on the distribution/relay board.

- **If:** < 15 or > 65 Vdc.
 - Then examine FU6, the wires and connections between battery +BV and CA201-5.
- **If:** 15 to 65 Vdc.
 - Then examine the wires and connections between CA201-6 and CA403-3.

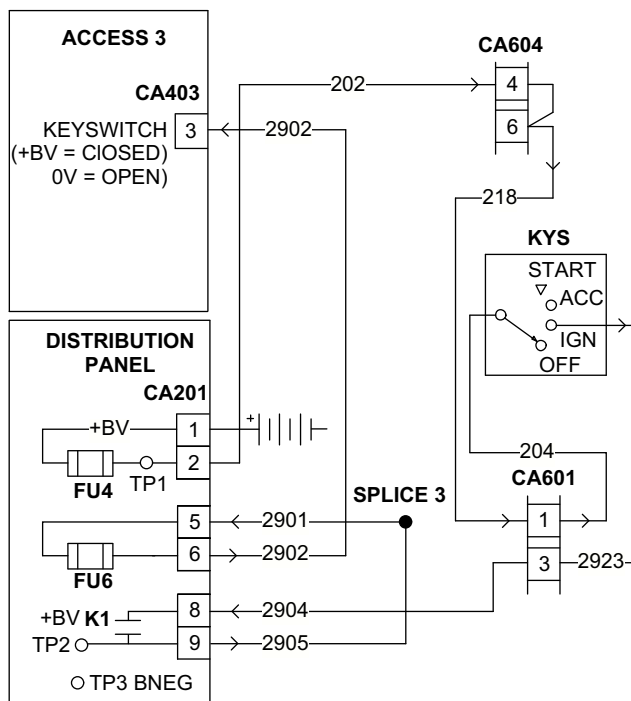


Fig. 52 (26769)

Event Code 304

Low output voltage to the right traction motor (M1)

Note: This event can occur if the line contactor tips open during truck operation.

Step 1: Examine the coil connections and tip condition of the line contactor, FU1 and cable connections between the line contactor and ACCESS 3.

- **If:** The line contactor, cables, FU1 and connections are good.

– Then go to Step 2.

Step 2: Remove the power cables from the right traction motor (M1). Examine for a short circuit between the motor terminals and truck frame.

- **If:** There is a short circuit.
 - Then replace the right traction motor.
- **If:** There is an open circuit.
 - Then replace ACCESS 3.

Event Code 305

High output voltage to the right traction motor (M1)

Note: This event is likely to occur if FU1 fails during plug braking.

Step 1: Follow Event Code 334 procedures.

Event Code 306

Voltage is at the B+ terminal of ACCESS 3 before the truck turns ON

Note: A bad line contactor (L) can cause this event. Access 1 2 3 ® can record this event after the truck temperature increases to the usual temperature of operation. The symptoms can be intermittent. Event Code 302 can follow this event.

Step 1: Examine the condition of the line contactor tips.

- **If:** The tips are good.
 - Then go to Step 2.

Note: The ACCESS 3 internal capacitors charge when the truck turns ON. Voltage can be at the B+ and BNEG terminals on ACCESS 3 for approximately 10 minutes after the truck turns OFF.

Step 2: Connect a DVOM to the B+ and BNEG terminals on ACCESS 3. The truck must be turned OFF.

- **If:** 35 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then the ACCESS 3 power circuit is a short circuit, between the battery and ACCESS 3.
- **If:** The voltage continuously decreases toward or at 0 Vdc.
 - Then replace ACCESS 3.

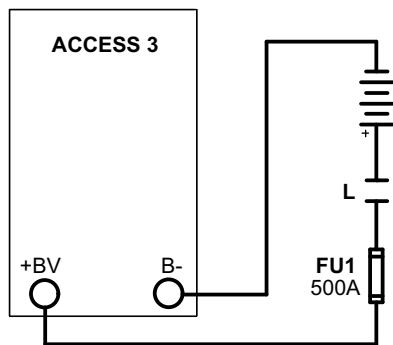


Fig. 53 (26775)

Event Code 307

Voltage is not present at the B+ terminal on ACCESS 3 after the truck is turned ON

Note: Incorrect battery calibration can cause this event. Do C5 CALIBRATION.

Step 1: Make sure that the line contactor closes after the truck turns ON and the seat switch closes.

- **If:** The line contactor closes.
 - Then go to Step 2.
- **If:** The line contactor stays open.
 - Then follow Event Code 312 procedures.

Step 2: Connect a DVOM to the B+ and BNEG terminals on ACCESS 3. Turn the truck ON and close the seat switch.

- **If:** 32 to 35 Vdc (36 V truck) or 44 to 47 Vdc (48 V truck).
 - Then examine the circuit between the battery and the B+ terminal on ACCESS 3, including FU1.
- **If:** < 32 Vdc (36 V truck) or 44 Vdc (48 V truck).
 - Then follow Event Code 303 procedures.
- **If:** 35 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then replace ACCESS 3.

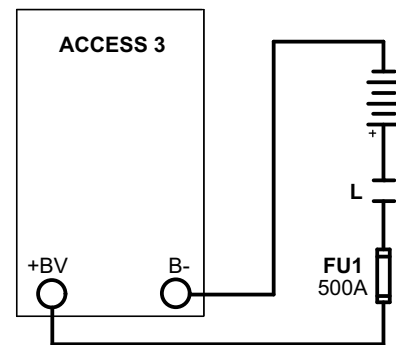


Fig. 54 (26775)

Event Code 308

ACCESS 3 senses the circuit for the left traction motor (M2) is a short circuit

Step 1: Follow Event Code 304 procedures.

Event Code 309

Note: This event can be caused by short circuit between the traction motor and frame.

Step 1: Follow Event Code 303 procedures.

Event Code 310

No internal communication with ACCESS 3

Step 1: Make sure that the line contactor closes after the truck turns ON and the seat switch closes.

- **If:** The line contactor closes.
 - Then follow Event Code 303 procedures.
- **If:** The line contactor stays open.
 - Then follow Event Code 312 procedures.

Note: If the truck operates, this could be a random nuisance code. Monitor the code frequency. If the frequency gradually increases for no apparent cause, replace ACCESS 3.

Event Code 311

The circuit for the line contactor driver is a short circuit

Step 1: With the truck OFF and the battery disconnected, disconnect the wires 5901 and 2911 from the line contactor coil. Connect the battery and turn the truck ON.

- **If:** The event code does not continue or changes.
 - Then replace the line contactor coil.

Event Codes

- **If:** The event code does not clear or change.
 - Then connect wires 5901 and 2911 to the line contactor coil and go to Step 2.

Step 2: Disconnect the wires 5901 (at CA403-26) and 2911 (at CA403-27) from ACCESS 3. Turn the truck ON and close the seat switch.

- **If:** The event code does not continue or changes.
 - Then examine the wires and connections between the line contactor coil and CA403.
- **If:** The event code does not clear or change.
 - Then replace ACCESS 3.

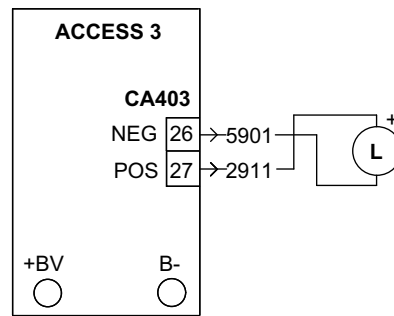


Fig. 56 (26776)

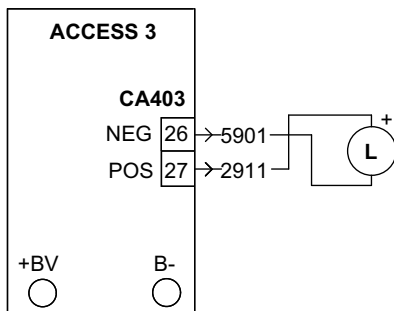


Fig. 55 (26776)

Event Code 312

The circuit for the line contactor driver is an open circuit

Step 1: Connect a DVOM to CA403-26 (-) and CA403-27 (+) at ACCESS 3. Turn the truck ON, and close the seat switch. Go to the ANALYZER Menu A4.3.1 and push ENTER.

- **If:** 22 to 26 Vdc.
 - Then go to Step 2.
- **If:** < 22 Vdc.
 - Then replace ACCESS 3.

Step 2: Connect a DVOM to the wires 5901 (-) and 2911 (+) at the line contactor coil. Turn the truck ON, and close the seat switch. Go to the ANALYZER Menu A4.3.1 and push ENTER.

- **If:** < 22 Vdc.
 - Then examine the wires and connections between the line contactor coil and CA403.
- **If:** 22 to 26 Vdc.
 - Then replace the line contactor coil.

Event Code 313

The circuit for the line contactor coil is a short circuit

Note: A short circuit in the cooling fan (FAN1), travel alarm (ALM2), or their circuits will cause this event.

Step 1: Follow Event Code 311 procedures.

Event Code 314

The encoder (ECR1) in the right traction motor is out of range

Note: This event occurs when the ECR1 counts do not change smoothly.

Step 1: Put blocks below the power unit so the drive tires are off the floor (refer to Crown Service and Parts Manual ► SAFETY ► Control of Hazardous Energy ► Lifting and Blocking). Turn the truck ON and turn the steering wheel until the steer tires are straight. Go to the ANALYZER menu A2.3.10 for ECR1. Release the brake and move the direction lever to the forward position.

- **If:** 0 RPM.
 - Then go to Step 2.
- **If:** RPM increases as you push the accelerator pedal.
 - Then replace ACCESS 3.

Step 2: Connect a DVOM to CA403-1 (+) and CA403-2 (-). Turn the truck ON.

- **If:** 11 to 12 Vdc.
 - Then go to Step 3.
- **If:** < 11 or > 12 Vdc.
 - Then replace ACCESS 3.

Step 3: Connect a DVOM to CA626-3 (+) and CA626-6 (-). Turn the truck ON.

- **If:** 11 to 12 Vdc.
 - Then go to Step 4.
- **If:** < 11 or > 12 Vdc.
 - Then examine the wires and connections between ECR1 and CA403.

Step 4: Connect a DVOM to CA626-4 (+) and CA626-6 (-). Turn the truck ON, release the brakes and move the direction lever to the forward position.

- **If:** The voltage changes.
 - Then go to Step 5.
- **If:** The voltage is the same.
 - Then replace ECR1.

Step 5: Connect a DVOM to CA626-5 (+) and CA626-6 (-). Turn the truck ON, release the brakes and move the direction lever to the forward position.

- **If:** The voltage changes.
 - Then go to Step 6.
- **If:** The voltage is the same.
 - Then replace ECR1.

Step 6: Examine the wires and connections between CA626-4 and CA403-14, and CA626-5 and CA403-13.

- **If:** The connections are good.
 - Then replace ACCESS 3.

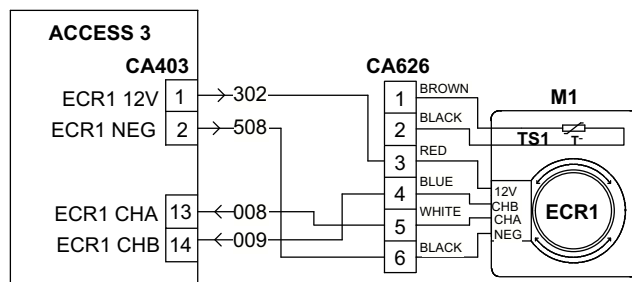


Fig. 57 (26770)

Event Code 315

ACCESS 3 senses incorrect battery voltage

Note: This event can occur if FEATURES Menu F3.4 is set incorrectly.

Step 1: Make sure that the correct battery is installed and correctly charged.

Step 2: Disconnect the battery. Measure and record the voltage between +BV and BNEG terminals on the battery.

Step 3: Connect the battery. Turn the truck ON and go to the CALIBRATION Menu C5. Adjust the C5 set-

ting to the voltage recorded in Step 2. Turn the truck OFF and then ON.

- **If:** The event code does not continue.
 - Then put the truck in operation.
- **If:** The event code continues.
 - Then replace ACCESS 3.

Event Code 316

Step 1: Turn the truck ON, close the seat switch and examine the line contactor (L).

- **If:** The line contactor tips are closed.
 - Then follow Event Code 303 procedures.
- **If:** The line contactor tips are open.
 - Then follow Event Code 312 procedures.

Note: If the truck operates, this could be a random nuisance code. Monitor the code frequency. If the frequency gradually increases for no apparent cause, replace ACCESS 3.

Event Code 317

The brake switch (BRKS1) and the brake potentiometer (POT2) are not the same

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.3.3. The operator must be in the seat.

Step 2: Slowly push the brake pedal.

- **If:** POT2 is < 15% or > 20% when BRKS1 changes from 0 to 1.
 - Then calibrate the brake potentiometer. Go to the CALIBRATION menu C2.
- **If:** BRKS1 does not change from 0 to 1.
 - Then examine the brake switch (BRKS1) circuit.
- **If:** POT2 does not change.
 - Then replace the brake potentiometer (POT2).
- **If:** POT2 is between 15% and 20% when BRKS1 changes from 0 to 1.
 - Then replace ACCESS 3.

Event Codes

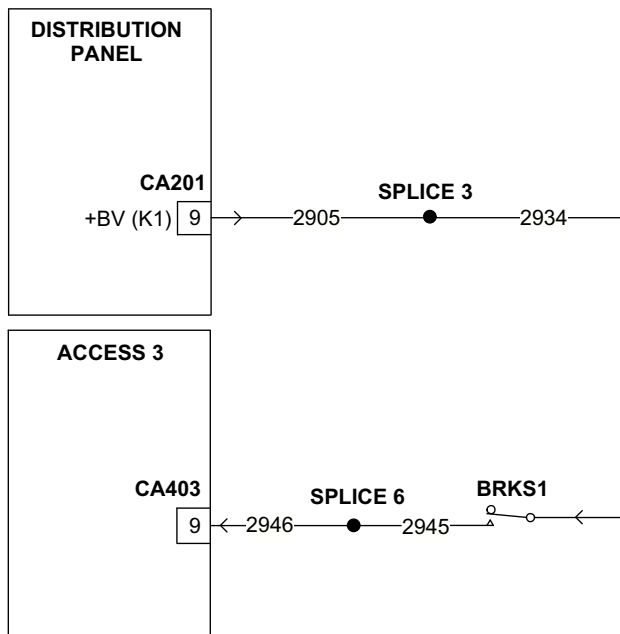


Fig. 58 (26771)

Event Code 318

Note: The truck settings change to the factory default settings when this event occurs. The truck operates with the factory default settings. The truck uses the customer settings after you turn the truck OFF and then ON.

Step 1: Turn the truck OFF and ON.

- **If:** The event code does not continue.
 - Then examine the PERFORMANCE and FEATURES Menu settings and put the truck in operation.
- **If:** The event code continues.
 - Then use UTILITIES Menu U4 to clear the EEPROM. Replace ACCESS 3 if this event occurs again.

Note: If the truck operates, this could be a random nuisance code. Monitor the code frequency. If the frequency gradually increases for no apparent cause, replace ACCESS 3.

Event Code 319

Step 1: Follow Event Code 318 procedures.

Event Code 320

Step 1: Follow Event Code 318 procedures.

Event Code 321

FAN1 and FAN2 do not operate

Note: FAN2 is only on EE trucks with an AC hydraulic system.

Note: The truck will continue to operate but the performance, at times, will decrease to keep the module below the temperature limits. Slow air flow in the FAN1 and FAN2 duct can cause this event. Examine the duct for restrictions.

Step 1: Connect a DVOM to FAN1 wires 2912 (+) and 5902 (-). Turn the truck ON, close the seat switch and go to the ANALYZER Menu A4.3.2. Push ENTER to energize FAN1 and FAN2.

- **If:** FAN1 operates.
 - Then examine the fan duct for restrictions. Go to Step 3 for EE trucks with an AC hydraulic system.
- **If:** 32 to 37 Vdc and FAN1 does not operate.
 - Then replace FAN1.
- **If:** 0 Vdc FAN1 does not operate.
 - Then go to Step 2.

Step 2: Connect a DVOM to CA403 30 (+) and CA403 31 (-). Turn the truck ON, close the seat switch and go to the ANALYZER Menu A4.3.2. Push ENTER to energize FAN1 and FAN2.

- **If:** 32 to 37 Vdc.
 - Then examine the wires and connections between CA403-30, CA403-31 and FAN1.
- **If:** 0 Vdc.
 - Then replace ACCESS 3.

Step 3: Connect a DVOM to FAN2 R/W wires. Turn the truck ON, close the seat switch and go to the ANALYZER Menu A4.3.2. Push ENTER to energize FAN1 and FAN2.

- **If:** FAN2 operates.
 - Then go to Step 4.
- **If:** 32 to 37 Vdc and FAN2 does not operate.
 - Then replace FAN2.
- **If:** 0 Vdc and FAN2 does not operate.
 - Then go to Step 4.

Step 4: Connect a DVOM to CA403-30 (+) and CA403-31 (-). Turn the truck ON, close the seat switch and go to the ANALYZER Menu A4.3.2. Push ENTER to energize FAN1 and FAN2.

- **If:** 32 to 37 Vdc.
 - Then examine the wires and connections between CA403-30, CA403-31 and FAN2.

- **If:** 0 Vdc.
 - Then replace ACCESS 3.

Note: If FAN1 and FAN2 operate during the troubleshooting procedure and the event continues to occur, you can make the fans operate continuously. Set the FEATURES menu F7.1 to "Always On".

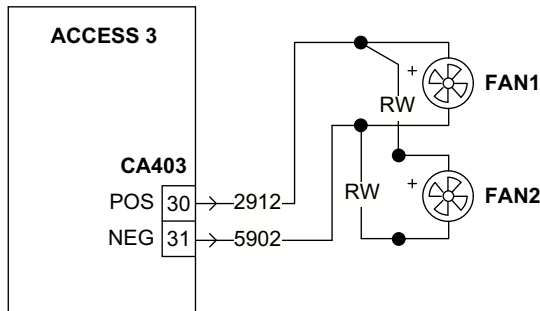


Fig. 59 (25229)

Event Code 322

The temperature of ACCESS 3 is out of range

Note: FAN2 is only on EE trucks with an AC hydraulic system.

Note: If this event occurs, the truck will continue to operate. The performance, at times, will decrease to keep ACCESS 3 below the temperature limits. Slow air flow in the FAN1 and FAN2 duct can cause this event. Examine the duct for restrictions.

Step 1: Turn the truck ON, close the seat switch and go to the ANALYZER Menu A2.3.15.

- **If:** $\geq 75^{\circ}\text{C}$ (167°F).
 - Then follow Event Code 321 procedures.
- **If:** $< 75^{\circ}\text{C}$ (167°F).
 - Then turn the truck OFF and then ON. Replace ACCESS 3 if the event code continues.

Note: If FAN1 and FAN2 operate during the troubleshooting procedure and the event continues to occur, you can make the fans operate continuously. Set the FEATURES menu F7.1 to "Always On".

Event Code 323

The temperature of the right traction motor (M1)

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.3.13 (M1 temperature). Record the temperature.

- **If:** Temperature $> 180^{\circ}\text{C}$ (356°F).
 - Then go to Step 2.

- **If:** Temperature $< 180^{\circ}\text{C}$ (356°F).
 - Then turn the truck OFF and then ON. Monitor the event frequency.
- **If:** No temperature is shown on the menu.
 - Examine the wires and connections between ACCESS 3 and the motor temperature sensor (TS1).

Step 2: Does the truck have very high duty cycles or operate in high temperatures?

- **If:** High duty cycles or high temperatures.
 - Then let the truck cool and then continue to operate the truck.

Note: If the truck has high duty cycles or operates in high temperatures, you can install a Floorboard Cooling Kit. Refer to PF26187.

- **If:** The truck does not become hot because of the above conditions.
 - Then go to Step 3.

Note: The high motor temperature can be caused by incorrect encoder feedback.

Step 3: Turn the truck ON, go to the ANALYZER Menu A2.3.10 M1 Speed. Move the direction lever to the forward or reverse position. Monitor the motor encoder counts.

- **If:** The encoder counts do not change smoothly with constant mast movement.
 - Then replace ECR3.
- **If:** The encoder counts correctly.
 - Then examine the wires and connections between ACCESS 3 and ECR1. Replace ACCESS 3 if the wires and connections are good.

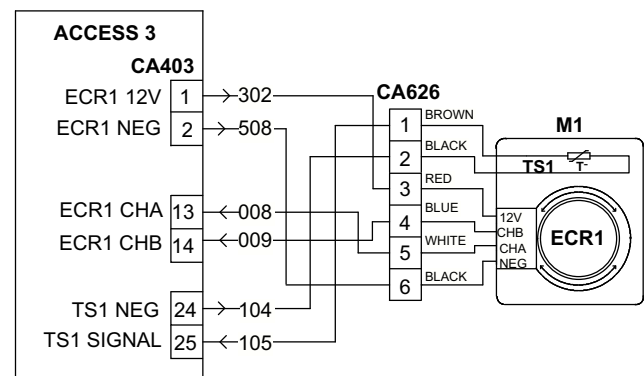


Fig. 60 (25230)

Event Codes

Event Code 324

Internal forward or reverse switch input event

Step 1: Follow Event Code 318 procedures.

Event Code 325

Step 1: Make sure that the line contactor closes after the truck turns ON and the seat switch closes.

- **If:** The line contactor closes.
 - Then follow Event Code 303 procedures.
- **If:** The line contactor stays open.
 - Then follow Event Code 312 procedures.

Note: If the truck operates, this could be a random nuisance code. Monitor the code frequency. If the frequency gradually increases for no apparent cause, replace ACCESS 3.

Event Code 326

The accelerator potentiometer (POT3) is out of range

Note: A potentiometer voltage change without the correct input from the accelerator switch (ACS) can cause this event. For the ACS input, go to the ANALYZER Menu A2.3.6.

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.3.9. Slowly push the accelerator pedal and monitor the voltage.

- **If:** The voltage changes from approximately 0.20 Vdc with the pedal released to approximately 11.3 Vdc with the pedal fully pushed.
 - Then calibrate the accelerator potentiometer (POT3). Go to the CALIBRATION Menu C1 Accel Pot.
- **If:** > 11.3 Vdc or the voltage does not change as the accelerator pedal is pushed.
 - Then go to Step 2.

Step 2: Connect a DVOM to CA403-33 (+) and CA403-20 (-). Turn the truck ON.

- **If:** Approximately 11.3 Vdc.
 - Then go to Step 3.
- **If:** < 10 Vdc.
 - Then replace ACCESS 3.

Step 3: Connect a DVOM to CA403-21 (+) and the BNEG terminal on ACCESS 3. Turn the truck ON.

Note: If you connect the DVOM to the POT3 negative (CA403-20), the DVOM will show the incorrect voltage. Connect the DVOM to battery negative.

- **If:** The voltage does not change as the accelerator pedal is pushed.
 - Then examine the wires and connections between ACCESS 3 and POT3. Replace POT3 if the wires and connections are good.
- **If:** The voltage changes from approximately 0.20 Vdc with the pedal released to approximately 11.3 Vdc with the pedal fully pushed.
 - Then replace ACCESS 3.

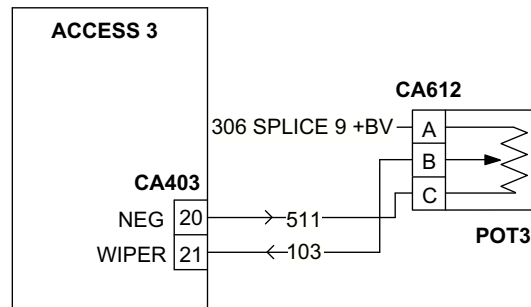


Fig. 61 (26772)

Event Code 327

The forward and reverse switches closed at the same time

Note: This event may occur when the operator changes directions. Do each test with the direction lever in neutral.

Step 1: Turn the truck ON, go to the ANALYZER Menu A2.3.1 (FS) and A2.3.2 (RS).

- **If:** The menu shows that one or two switches are ON.
 - Then go to Step 2.
- **If:** The menu shows that the two switches are OFF.
 - Then turn the truck OFF and then ON. Replace ACCESS 3 if the event code continues.

Step 2: Connect a DVOM to CA403-6 (FS) or CA403-7 (RS) and the BNEG terminal on ACCESS 3. Turn the truck ON.

- **If:** 10 to 52 Vdc on one switch.
 - Then examine the switches and circuit between ACCESS 3 and the forward and reverse switches.
- **If:** < 10 Vdc on the two switches.
 - Then replace ACCESS 3.

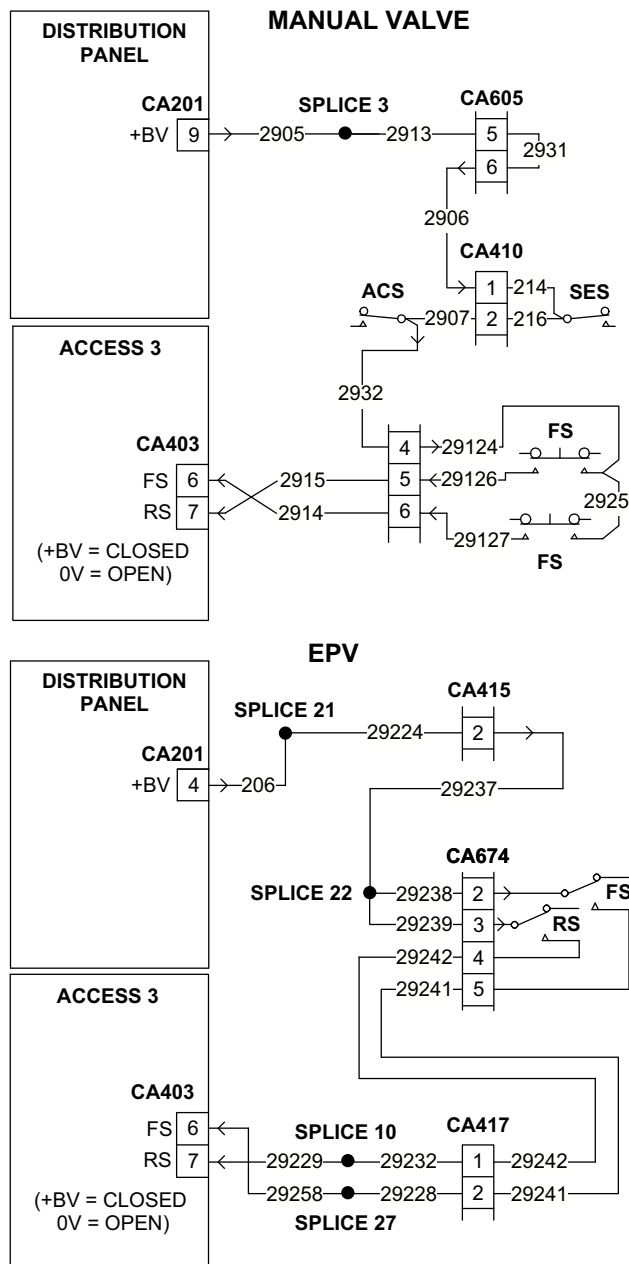


Fig. 62 (26773)

Event Code 329

Step 1: Turn the truck OFF and then ON.

- **If:** The event code continues.
– Then replace ACCESS 3.

Event Code 330

Step 1: Turn the truck OFF and then ON.

- **If:** The event code continues.
– Then replace ACCESS 3.

Event Code 331

The steer angle potentiometer (POT1) is out of range

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.3.8. Turn the steering wheel in the clockwise and counterclockwise direction and monitor the voltage.

- **If:** The counts change from 0 when the steer tires are straight to +90 full right and -90 full left.
– Then calibrate the steer angle potentiometer (POT1). Go to the CALIBRATION Menu C3.
- **If:** The counts do not change from 0 when the steer tires are straight to +90 full right and -90 full left.
– Then go to Step 2.

Step 2: Connect a DVOM to CA403-16 (+) and CA403-15 (-). Turn the truck ON.

- **If:** 12 Vdc.
– Then go to Step 3.
- **If:** < 10 Vdc.
– Then replace ACCESS 3.

Step 3: Connect a DVOM to CA403-17 (+) and CA403-15 (-). Turn the truck ON.

- **If:** The voltage does not change as you slowly turn the steering wheel from fully clockwise to fully counterclockwise.
– Then examine the wires and connections between ACCESS 3 and POT1. Replace POT1 if the wires and connections are good.
- **If:** The voltage changes from 0.20 to 12 Vdc as you slowly turn the steering wheel from fully clockwise to fully counterclockwise.
– Then replace ACCESS 3.

Event Codes

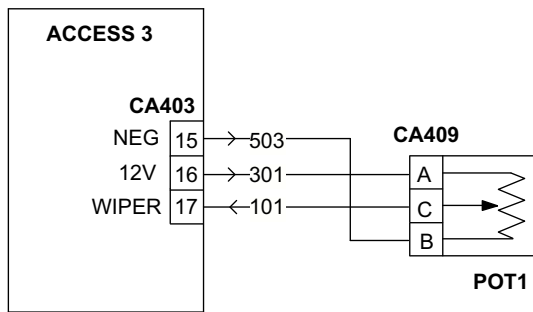


Fig. 63 (26774)

Event Code 332

The accelerator potentiometer (POT3) circuit is an open circuit

Step 1: Follow Event Code 326 procedures.

Event Code 334

The output voltage to the left traction motor (M2) is low

Note: This event can occur if the line contactor tips open during truck operation.

Step 1: Examine the connections at the line contactor coil, the condition of the line contactor tips, and FU1. Also, examine the power cable connections between the line contactor and ACCESS 3.

- **If:** The line contactor, power cables, FU1 and connections are good.
 - Then go to Step 2.

Step 2: Remove the power cables from the left traction motor (M2). Examine for a short circuit between the motor terminals and truck frame.

- **If:** There is a short circuit.
 - Then replace the left traction motor.
- **If:** There is an open circuit.
 - Then replace ACCESS 3.

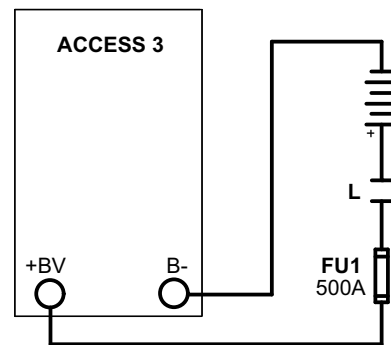


Fig. 64 (26775)

Event Code 335

The output voltage to the left traction motor (M2) is high

Note: A symptom for this event is the failure of FU1 during plug braking.

Step 1: Follow Event Code 304 procedures.

Event Code 336

The encoder (ECR2) in the left traction motor is out of range

Note: This event can occur when ECR2 counts do not change smoothly.

Step 1: Put blocks below the power unit so the drive tires are off the floor (refer to Crown Service and Parts Manual ► SAFETY ► Control of Hazardous Energy ► Lifting and Blocking). Turn the truck ON and turn the steering wheel until the steer tires are straight. Go to the ANALYZER menu A2.3.11 for ECR2. Release the brake and move the direction lever to the forward position.

- **If:** 0 RPM.
 - Then go to Step 2.
- **If:** RPM increases as you push the accelerator pedal.
 - Then replace ACCESS 3.

Step 2: Connect a DVOM to CA403-11 (+) and CA403-12 (-). Turn the truck ON.

- **If:** 11 to 12 Vdc.
 - Then go to Step 3.
- **If:** < 11 or > 12 Vdc.
 - Then replace ACCESS 3.

Step 3: Connect a DVOM to CA625-3 (+) and CA625-6 (-). Turn the truck ON.

- **If:** 11 to 12 Vdc.
 - Then go to Step 4.
- **If:** < 11 or > 12 Vdc.
 - Then examine the wires and connections between ECR2 and CA403.

Step 4: Connect a DVOM to CA625-4 (+) and CA625-6 (-). Turn the truck ON, release the brakes and move the direction lever to the forward position.

- **If:** The voltage changes.
 - Then go to Step 5.
- **If:** The voltage is the same.
 - Then replace ECR1.

Step 5: Connect a DVOM to CA625-5 (+) and CA625-6 (-). Turn the truck ON, release the brakes and move the direction lever to the forward position.

- **If:** The voltage changes.
 - Then go to Step 6.
- **If:** The voltage is the same.
 - Then replace ECR1.

Step 6: Examine the wires and connections between CA625-4 and CA403-23, and CA625-5 and CA403-22.

- **If:** The connections are good.
 - Then replace ACCESS 3.

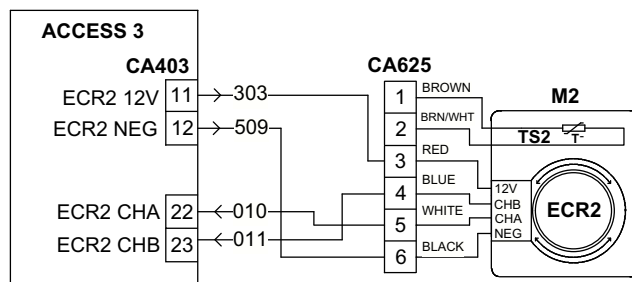


Fig. 65 (25296)

Event Code 337

The temperature of ACCESS 3 is out of range

Step 1: Follow Event Code 322 procedures.

Event Code 338

The temperature of the left traction motor (M2) is out of range

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.3.14 (M2 temperature). Record the temperature.

- **If:** The temperature > 180 °C (356 °F).
 - Then go to Step 2.
- **If:** The temperature < 180 °C (356 °F).
 - Then turn the truck OFF and then ON. Monitor the event frequency.
- **If:** The temperature is not shown on the menu.
 - Examine the wires and connections between ACCESS 3 and the motor temperature sensor (TS2).

Step 2: Does the truck have very high duty cycles or operate in high temperatures?

- **If:** High duty cycles or high temperatures.
 - Then let the truck cool and then continue to operate the truck.

Note: If the truck has high duty cycles or operates in high temperatures, you can install a Floorboard Cooling Kit. Refer to PF26187.

- **If:** The truck does not become hot because of the above conditions.
 - Then go to Step 3.

Note: Incorrect encoder feedback can be the cause of the high motor temperature.

Step 3: Turn the truck ON, go to the ANALYZER Menu A2.3.11 M2 Speed. Move the direction lever to the forward or reverse position. Monitor the motor encoder counts.

- **If:** The encoder counts do not change smoothly with constant mast movement.
 - Then replace ECR2.
- **If:** The encoder counts correctly.
 - Then examine the wires and connections between ACCESS 3 and ECR2. Replace ACCESS 3 if the wires and connections are good.

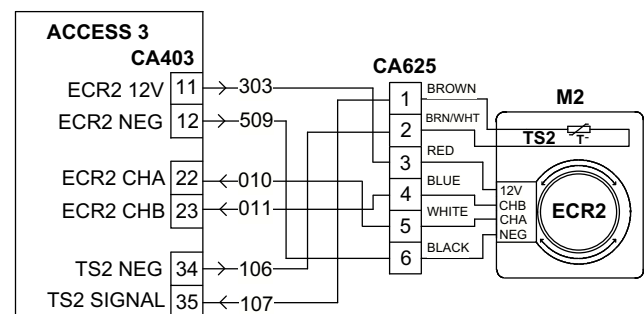


Fig. 66 (25297)

Event Codes

Event Code 339

Internal forward or reverse switch input event

Step 1: Follow Event Code 318 procedures.

Event Code 399

Step 1: Turn the truck OFF and then ON.

- **If:** The event code continues.
 - Then replace ACCESS 3.

Event Code 700

ACCESS 7 cannot write to memory (EPV only)

Step 1: Turn the truck OFF and then ON.

- **If:** The event code continues.
 - Then replace ACCESS 7.

Event Code 701

ACCESS 7 cannot find the event history (EPV only)

Step 1: Turn the truck OFF and then ON.

- **If:** The event code continues.
 - Then replace ACCESS 7.

Event Code 702

Hour meter memory in ACCESS 7 (EPV only)

Step 1: Turn the truck OFF and then ON.

- **If:** The event code continues.
 - Then replace ACCESS 7.

Event Code 703

ACCESS 7 can not find the calibrations (EPV only)

Step 1: Turn the truck ON, go to the CALIBRATION Menu and calibrate the truck. Turn the truck OFF and then ON.

- **If:** The event code continues.
 - Then replace ACCESS 7.

Event Code 704

ACCESS 7 senses low battery voltage (<13 Vdc - EPV only)

Note: This event can occur if the truck has an incorrect battery or it is necessary to charge the battery. This event can also occur if the FEATURES Menu F3.4 is set incorrectly.

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.2.14.

- **If:** < 13 Vdc.
 - Then examine the battery condition and do C5 CALIBRATION.
- **If:** > 13 Vdc.
 - Then replace ACCESS 7.

Event Code 705

ACCESS 7 senses high battery voltage (> 60 Vdc - EPV only)

Note: This event can occur if the truck has an incorrect battery or it is necessary to charge the battery. This event can also occur if the FEATURES Menu F3.4 is set incorrectly.

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.2.14.

- **If:** > 60 Vdc.
 - Then examine the battery condition and do C5 CALIBRATION.
- **If:** < 60 Vdc.
 - Then replace ACCESS 7.

Event Code 706

No communication between ACCESS 1 and ACCESS 7 (EPV only)

Step 1: Connect a DVOM to CA837-16 (+) on ACCESS 7 and BNEG.

- **If:** 45 to 52 Vdc.
 - Then continue to Step 2.
- **If:** < 45 Vdc.
 - Then examine the wires and connections between CA837-16 and CA201-9.

Step 2: Connect a DVOM to CA837-9 (BNEG) on ACCESS 7 and +BV.

- **If:** 45 to 52 Vdc.
 - Then continue to Step 3.
- **If:** < 45 Vdc.
 - Then examine the wires and connections between CA837-9 and BNEG.

Step 3: Examine the wires and connections between CA837-1 and CA406-8, and between CA837-2 and CA406-11.

- **If:** The wires and connections are good.
 - Then replace ACCESS 2.

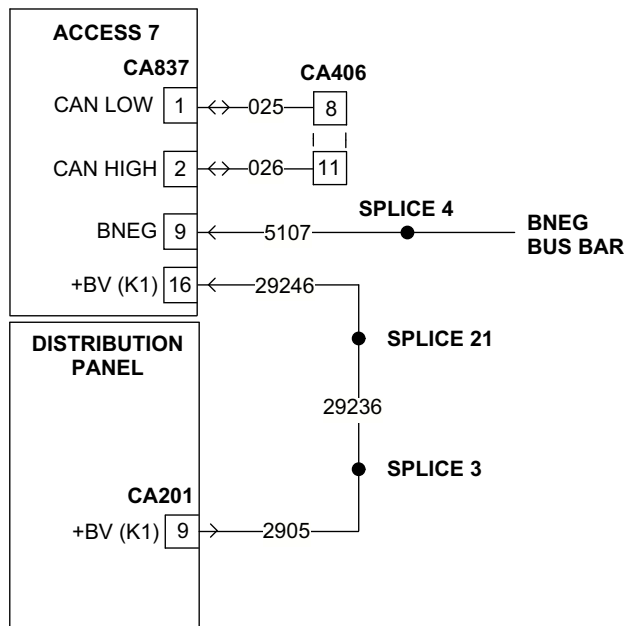


Fig. 67 (26779)

Event Code 707

No communication between ACCESS 2 and ACCESS 7 (EPV only)

Step 1: Examine the wires and connections between CA837-1 and CA406-7, and between CA837-2 and CA406-10.

- **If:** The wires and connections are good.
 - Then replace ACCESS 7.

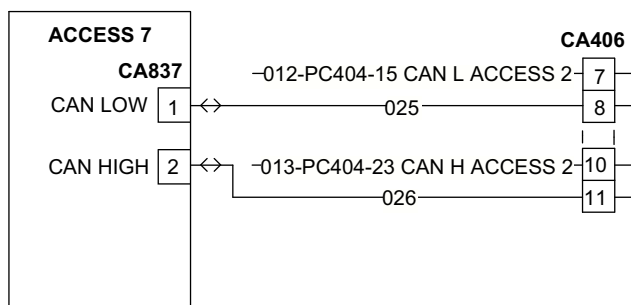


Fig. 68 (26780)

Event Code 708

ACCESS 7 senses the port A (SPA2A) circuit for the accessory 2 proportional solenoid is a short circuit (EPV only)

Note: The SPA2A solenoid is polarity sensitive. Before you disconnect the terminal wires, record the terminal wires location.

Step 1: Disconnect the wires from the solenoid. Turn the truck ON.

- **If:** The event code does not continue or changes to 722.
 - Then replace the solenoid.
- **If:** The event code continues.
 - Then go to Step 2 (do not connect the wires to the solenoid).

Step 2: Turn the truck OFF and disconnect the battery. Disconnect CA837 at ACCESS 7 and CA201 at the distribution/relay board. Examine the resistance between the +BV and (-) solenoid wires.

- **If:** There is a short circuit.
 - Then check the wires and connections between the solenoid, CA201 and CA837.
- **If:** There is an open circuit.
 - Then replace ACCESS 7.

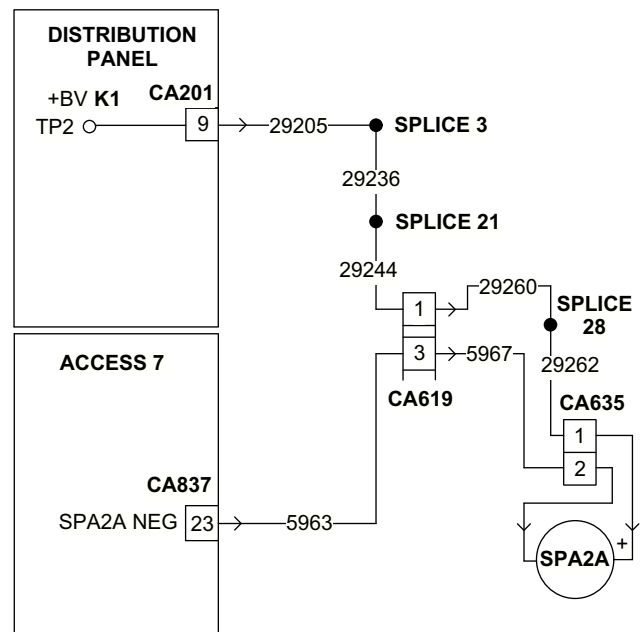


Fig. 69 (26786)

Event Codes

Event Code 709

ACCESS 7 senses the port B (SPA2B) circuit for the accessory 2 proportional solenoid is a short circuit (EPV only)

Note: The SPA2B solenoid is polarity sensitive. Before you disconnect the terminal wires, record the terminal wires location.

Step 1: Disconnect the wires from the solenoid. Turn the truck ON.

- **If:** The event code does not continue or changes to 723.
 - Then replace the solenoid.
- **If:** The event code continues.
 - Then go to Step 2 (do not connect the wires to the solenoid).

Step 2: Turn the truck OFF and disconnect the battery. Disconnect CA837 at ACCESS 7 and CA201 at the distribution/relay board. Examine the resistance between the +BV and (-) solenoid wires.

- **If:** There is a short circuit.
 - Then check the wires and connections between the solenoid, CA201 and CA837.
- **If:** There is an open circuit.
 - Then replace ACCESS 7.

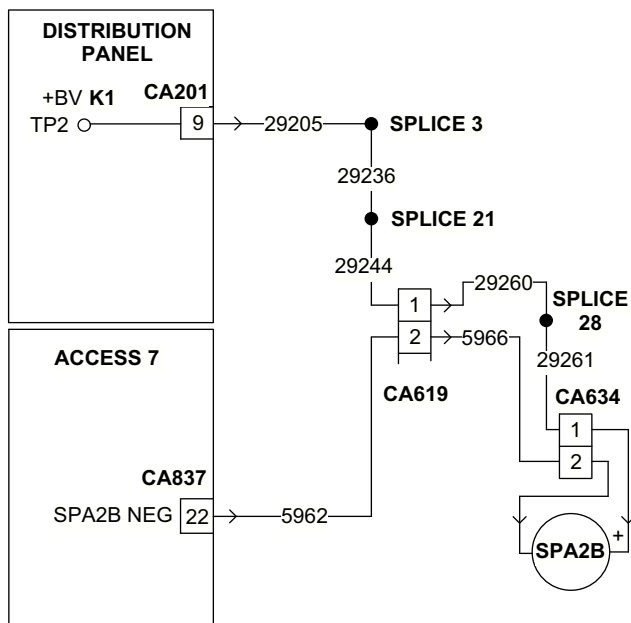


Fig. 70 (26787)

Event Code 710

ACCESS 7 senses the circuit for the accessory solenoid X (SVX) is a short circuit (EPV only)

Note: The SVX solenoid is polarity sensitive. Before you disconnect the terminal wires, record the terminal wires location.

Step 1: Disconnect the wires from the solenoid. Turn the truck ON.

- **If:** The event code does not continue or changes to 724.
 - Then replace the solenoid.
- **If:** The event code continues.
 - Then go to Step 2 (do not connect the wires to the solenoid).

Step 2: Turn the truck OFF and disconnect the battery. Disconnect CA837 at ACCESS 7 and CA201 at the distribution/relay board. Examine the resistance between the +BV and (-) solenoid wires.

- **If:** There is a short circuit.
 - Then check the wires and connections between the solenoid, CA201 and CA837.
- **If:** There is an open circuit.
 - Then replace ACCESS 7.

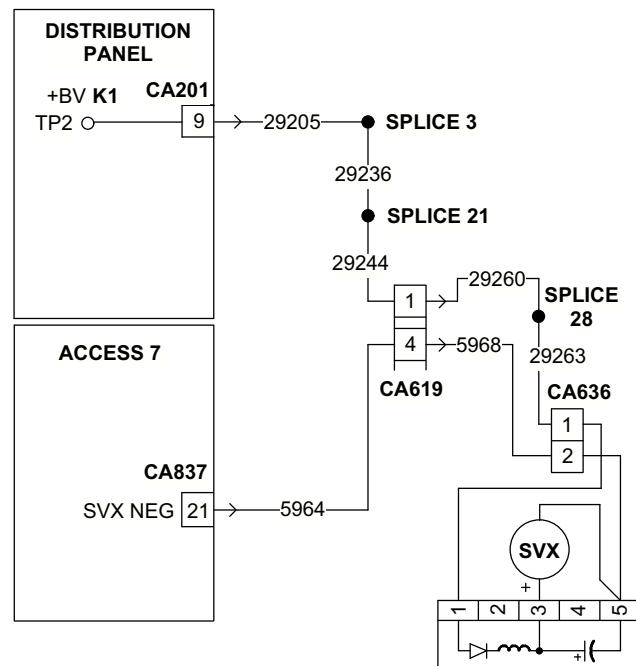


Fig. 71 (27536)

Event Code 713

ACCESS 7 senses the circuit for the load sense dump solenoid (SVLSD) is a short circuit (EPV only)

Note: The SVLSD solenoid is polarity sensitive. Before you disconnect the terminal wires, record the terminal wires location.

Step 1: Disconnect the wires from the solenoid. Turn the truck ON.

- **If:** The event code does not continue or changes to 727.
 - Then replace the solenoid.
- **If:** The event code continues.
 - Then go to Step 2 (do not connect the wires to the solenoid).

Step 2: Turn the truck OFF and disconnect the battery. Disconnect CA837 at ACCESS 7 and CA201 at the distribution/relay board. Examine the resistance between the +BV and (-) solenoid wires.

- **If:** There is a short circuit.
 - Then check the wires and connections between the solenoid, CA201 and CA837.
- **If:** There is an open circuit.
 - Then replace ACCESS 7.

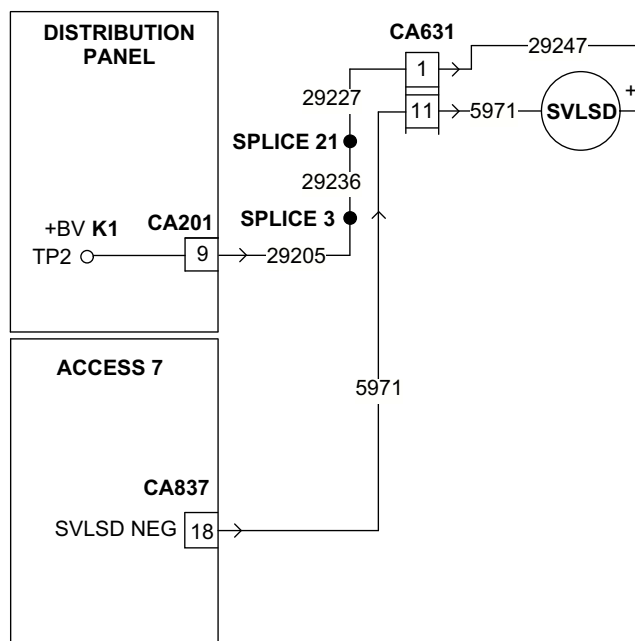


Fig. 72 (26791)

Event Code 715

ACCESS 7 senses the port A (SPA2A) driver circuit for the accessory 2 proportional solenoid is a short circuit (EPV only)

Step 1: Follow Event Code 708 procedures.

Event Code 716

ACCESS 7 senses the port B (SPA2B) driver circuit for the accessory 2 proportional solenoid is a short circuit (EPV only)

Step 1: Follow Event Code 709 procedures.

Event Code 717

ACCESS 7 senses the driver circuit for the accessory solenoid X (SVX) is a short circuit (EPV only)

Step 1: Follow Event Code 710 procedures.

Event Code 720

ACCESS 7 senses the driver circuit for the load sense dump solenoid (SVLSD) is a short circuit (EPV only)

Step 1: Follow Event Code 713 procedures.

Event Code 722

ACCESS 7 senses the port A (SPA2A) circuit for the accessory 2 proportional solenoid, is an open circuit (EPV only)

Step 1: Connect a DVOM to the +BV wire at the solenoid and BNEG. Turn the truck ON.

- **If:** 33 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then go to Step 2.
- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck).
 - Then examine the wires and connections between CA201-9 and the solenoid (+).

Step 2: Connect a DVOM to +BV and (-) wires at the solenoid. Turn the truck ON and go to the Analyzer Menu A4.7.2. Push ENTER to energize the solenoid.

- **If:** 22 to 26 Vdc.
 - Then replace the solenoid.
- **If:** < 22 Vdc.
 - Then continue to Step 3.

Event Codes

Step 3: Connect a DVOM to CA201-9 (+) at the distribution/relay board and CA837-23 (-) at ACCESS 7. Turn the truck ON and go to the ANALYZER Menu A4.7.2. Push ENTER to energize the solenoid.

- **If:** 22 to 26 Vdc.
 - Then examine the wires and connections between the solenoid, CA201 and CA837.
- **If:** < 22 Vdc.
 - Then replace ACCESS 7.

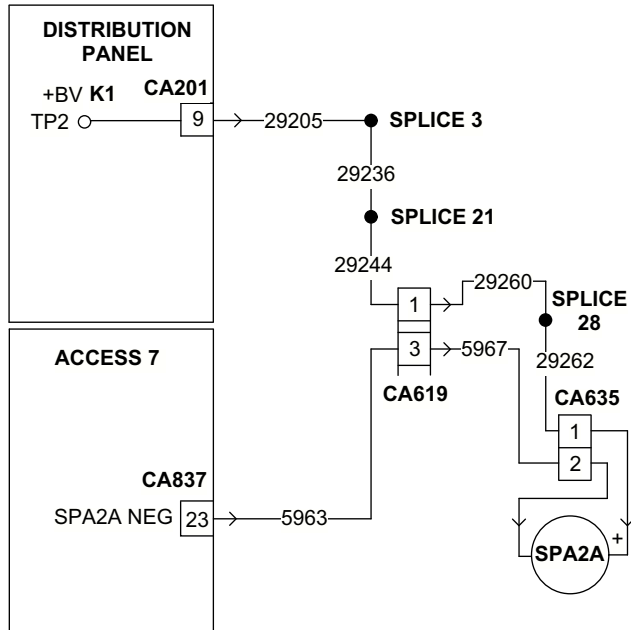


Fig. 73 (26786)

Event Code 723

ACCESS 7 senses the port B (SPA2B) circuit for the accessory 2 proportional solenoid is an open circuit (EPV only)

Step 1: Connect a DVOM to the +BV wire at the solenoid and BNEG. Turn the truck ON.

- **If:** 33 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then go to Step 2.
- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck).
 - Then examine the wires and connections between CA201-9 and the solenoid (+).

Step 2: Connect a DVOM to +BV and (-) wires at the solenoid. Turn the truck ON and go to the Analyzer Menu A4.7.3. Push ENTER to energize the solenoid.

- **If:** 22 to 26 Vdc.
 - Then replace the solenoid.

- **If:** < 22 Vdc.
 - Then continue to Step 3.

Step 3: Connect a DVOM to CA201-9 (+) at the distribution/relay board and CA837-23 (-) at ACCESS 7. Turn the truck ON and go to the ANALYZER Menu A4.7.3. Push ENTER to energize the solenoid.

- **If:** 22 to 26 Vdc.
 - Then examine the wires and connections between the solenoid, CA201 and CA837.
- **If:** < 22 Vdc.
 - Then replace ACCESS 7.

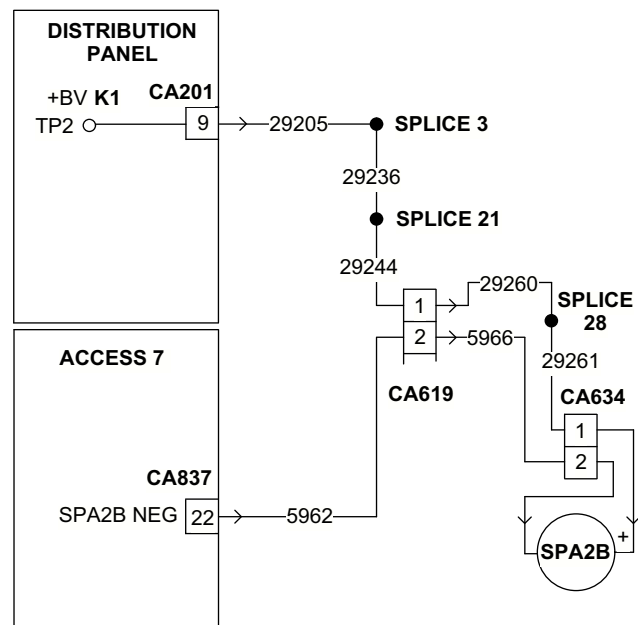


Fig. 74 (26787)

Event Code 724

ACCESS 7 senses the circuit for the accessory solenoid X (SVX) is an open circuit (EPV only)

Step 1: Connect a DVOM to the +BV wire at the solenoid and BNEG. Turn the truck ON.

- **If:** 33 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then go to Step 2.
- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck).
 - Then examine the wires and connections between CA201-9 and the solenoid (+).

Step 2: Connect a DVOM to +BV and (-) wires at the solenoid. Turn the truck ON and go to the Analyzer Menu A4.7.1. Push ENTER to energize the solenoid.

- **If:** 22 to 26 Vdc.
– Then replace the solenoid.
- **If:** < 22 Vdc.
– Then continue to Step 3.

Step 3: Connect a DVOM to CA201-9 (+) at the distribution/relay board and CA837-21 (-) at ACCESS 7. Turn the truck ON and go to the ANALYZER Menu A4.7.1. Push ENTER to energize the solenoid.

- **If:** 22 to 26 Vdc.
– Then examine the wires and connections between the solenoid, CA201 and CA837.
- **If:** < 22 Vdc.
– Then replace ACCESS 7.

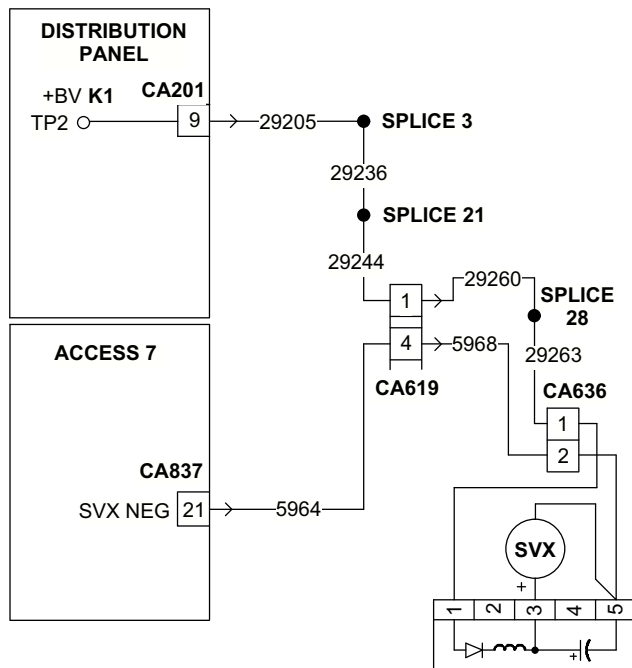


Fig. 75 (27536)

Event Code 727

ACCESS 7 senses the circuit for the load sense dump solenoid (SVLSD) is an open circuit (EPV only)

Step 1: Connect a DVOM to the +BV wire at the solenoid and BNEG. Turn the truck ON.

- **If:** 33 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
– Then go to Step 2.
- **If:** < 33 Vdc (36 V truck) or 45 Vdc (48 V truck).
– Then examine the wires and connections between CA201-9 and the solenoid (+).

Step 2: Connect a DVOM to +BV and (-) wires at the solenoid. Turn the truck ON and go to the Analyzer Menu A4.7.6. Push ENTER to energize the solenoid.

- **If:** 22 to 26 Vdc.
– Then replace the solenoid.
- **If:** < 22 Vdc.
– Then continue to Step 3.

Step 3: Connect a DVOM to CA201-9 (+) at the distribution/relay board and CA837-18 (-) at ACCESS 7. Turn the truck ON and go to the ANALYZER Menu A4.7.6. Push ENTER to energize the solenoid.

- **If:** 22 to 26 Vdc.
– Then examine the wires and connections between the solenoid, CA201 and CA837.
- **If:** < 22 Vdc.
– Then replace ACCESS 7.

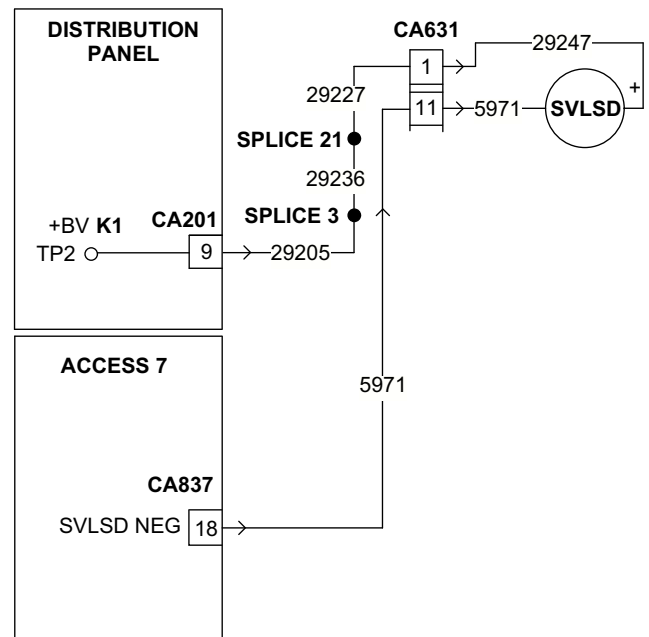


Fig. 76 (26791)

Event Code 735

ACCESS 7 cannot calculate the CALIBRATION data (EPV only)

Step 1: Turn the truck ON, go to the CALIBRATION Menu and calibrate the truck. Turn the truck OFF and then ON.

- **If:** The event code continues.
– Then replace ACCESS 7.

Event Codes

Event Code 736

ACCESS 7 CALIBRATION memory changed to the factory default settings (EPV only)

Note: The installation of new software can cause this event to occur.

Step 1: Calibrate the truck.

- **If:** The event code continues.
 - Then replace ACCESS 7.

Event Code 737

ACCESS 7 PERFORMANCE memory changed to the factory default settings (EPV only)

Note: The installation of new software can cause this event to occur.

Step 1: Go to the PERFORMANCE Menu. Make sure the settings are correct and, if necessary change them. Turn the key switch OFF and then ON.

- **If:** The event code continues.
 - Then replace ACCESS 7.

Event Code 738

ACCESS 7 FEATURES memory changed to the factory default settings (EPV only)

Note: The installation of new software can cause this event to occur.

Step 1: Go to the FEATURES Menu. Make sure the settings are correct and, if necessary change them. Turn the key switch OFF and then ON.

- **If:** The event code continues.
 - Then replace ACCESS 7.

Event Code 743

Accessory 2 potentiometer (POT7) out of range (EPV only)

Step 1: Turn the truck ON and go to the ANALYZER Menu A2.7.1. Slowly pull the accessory 2 lever and monitor the voltage.

- **If:** The voltage starts at 0.20 Vdc and increases to 11.3 Vdc as you pull the lever fully.
 - Then calibrate accessory 2 potentiometer (POT7). Go to the CALIBRATION Menu C4.4 ACCESSORY 2 POT.
- **If:** > 11.3 Vdc or voltage does not change when you pull the lever.
 - Then go to Step 2.

Step 2: Connect a DVOM to CA404-3 (+) and CA404-4 (-). Turn the truck ON and pull the lever fully.

- **If:** = 11.3 Vdc.
 - Then go to step 3.
- **If:** < 10 Vdc.
 - Then replace ACCESS 2.

Step 3: Connect a DVOM to CA837-3 (+) and BNEG. Turn the truck ON.

- **If:** The voltage does not change as you pull the lever.
 - Then check the wires and connections between ACCESS 7 and POT7. Replace POT7 if the wires and connections are good.
- **If:** The voltage begins at 0.20 Vdc and increases to 11.3 Vdc as you pull the lever fully.
 - Then replace ACCESS 7.

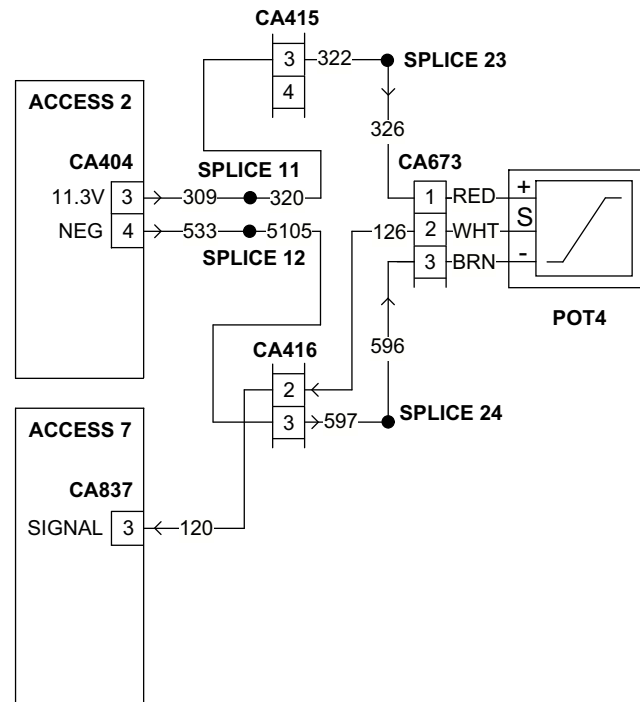


Fig. 77 (26789)

Event Code 799 (EPV Only)

Step 1: Turn the truck OFF and then ON.

- **If:** The event code continues.
 - Then replace ACCESS 7.

Note: If the truck operates, this could be a random nuisance code. Monitor the code frequency. If the frequency gradually increases for no apparent cause, replace ACCESS 7.

Event Code No Indication

With battery connected and the key switch (KYS) ON, the truck does not turn on. Also, ACCESS 2 (if equipped) power LED is not ON.

Step 1: Turn and hold the key switch (KYS) to the START position.

- **If:** ACCESS 1 lights illuminate.
 - Then examine the K1 relay connections and circuit.
- **If:** ACCESS 1 lights do not illuminate.
 - Then go to Step 2.

Step 2: With the key switch (KYS) OFF and the battery connected, connect a DVOM to TP1 (+) and BNEG.

- **If:** 33 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then go to Step 3.
- **If:** < 33 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then examine FU4, the battery condition, and the wires and connections between the battery and CA201-1.

Step 3: With key switch (KYS) off and battery connected, connect a DVOM to TP3 (-) and TP1 (+)

- **If:** 33 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then examine the key switch circuit.
- **If:** < 33 to 38 Vdc (36 V truck) or 45 to 52 Vdc (48 V truck).
 - Then examine the battery condition, and the wires and connections between the battery and CA201-11.

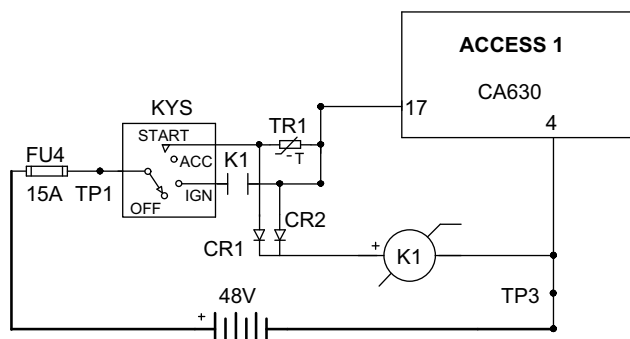


Fig. 78 (26790)

Notes: