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J2 Troubleshooting

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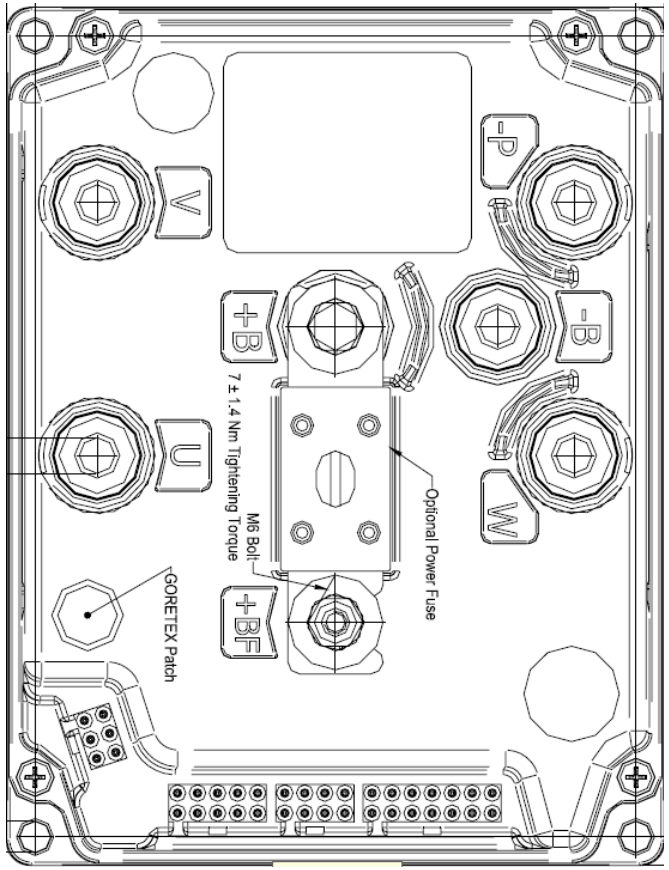
Main Controller



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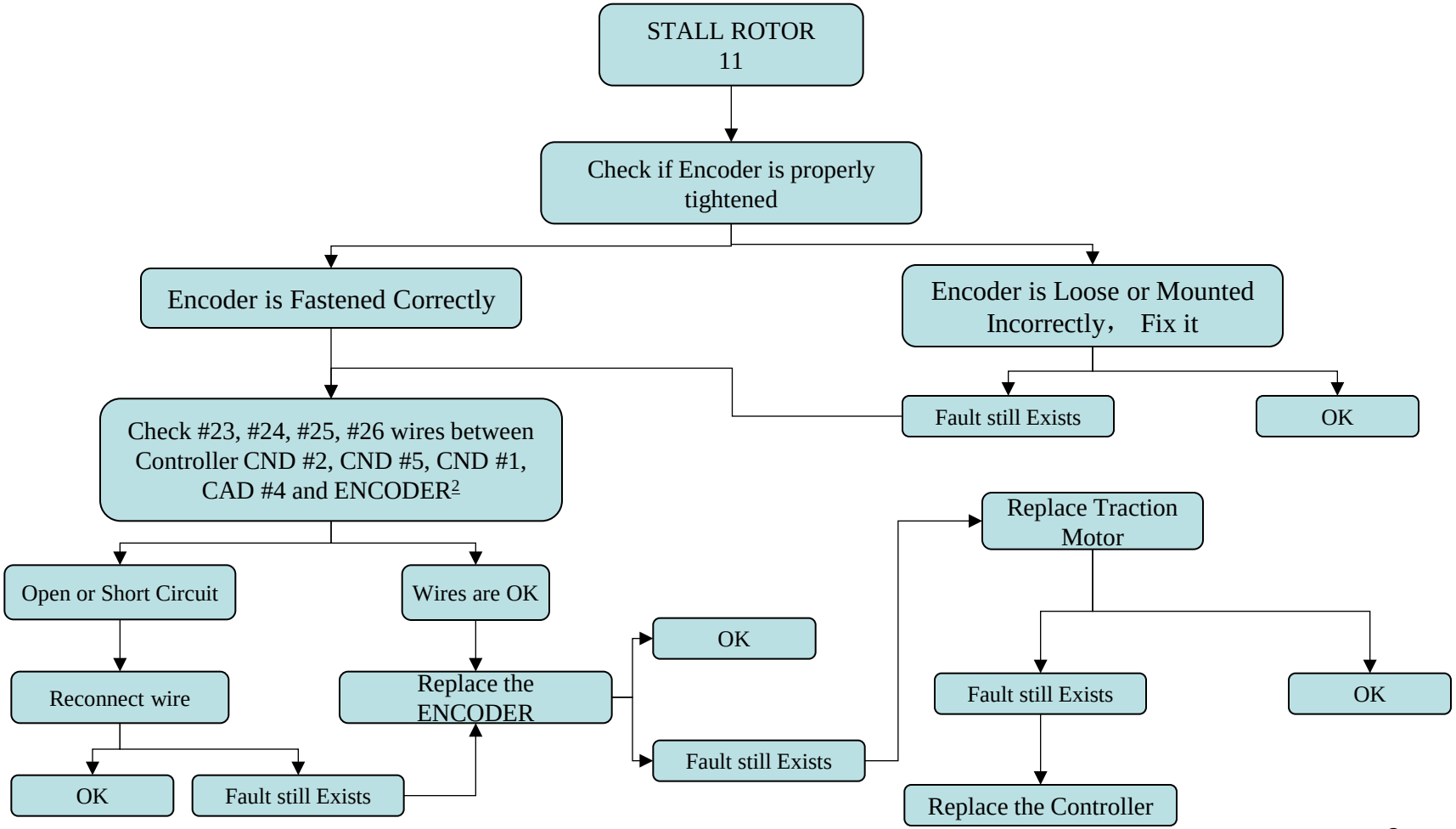
ALARM #11 on NODE #2 STALL ROTOR



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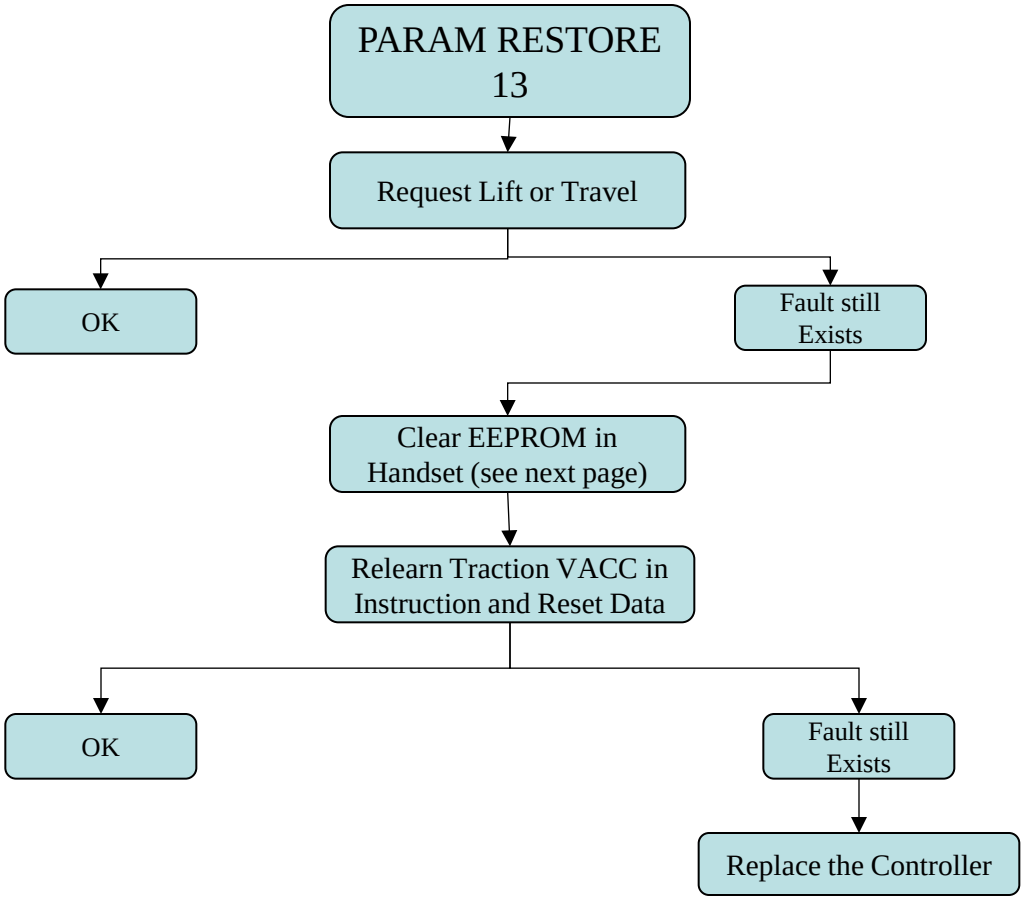
ALARM #13 on NODE #2 PARAM RESTORE



Clear Eeprom in Handset

Turn on ZAPI Handset

Push and hold the power button for 3s

Cons AFG ZP021*

The Display will show:

Press ^ or v button until CAN CONSOLE shows on the display

Cons AFG ZP021*
CAN CONSOLE

The Display will show :

Press OK to go into the CANCONSOLE Menu

The Display will show:

CANCONSOLE
SELECT NODE

Push 》, or 《
To select Node 2

The Display will show:

SELECT NODE
NODE 2

Press OK to go into the
Traction controller

The Display will show:

ACOT2BESK EP0.45
24V 150A 0H

Press OK to go into the
Main Menu

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The Display will show:

Main Menu

Press ^ or v button until CLEAR EEPROM on the display

The Display will show:

MAIN MENU
CLEAR EEPROM

Press OK to go into the CLEAR EEPROM function

The Display will ask:
ARE YOU SURE?

ARE YOU SURE?
YES= OK NO=ESC

Press OK to CLEAR EEPROM

The display will show:

EEPROM CLEARED!
KEY OFF, PLEASE

Rekey truck, and restart handset

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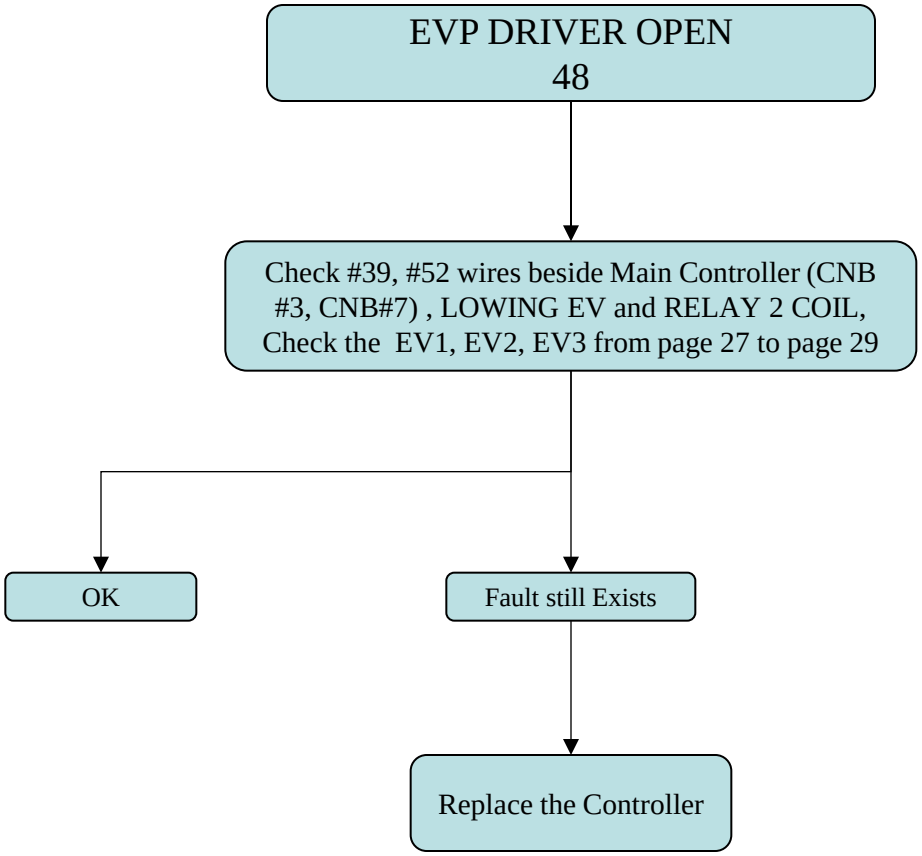
ALARM #48 on NODE #2 EVP DRIVER OPEN



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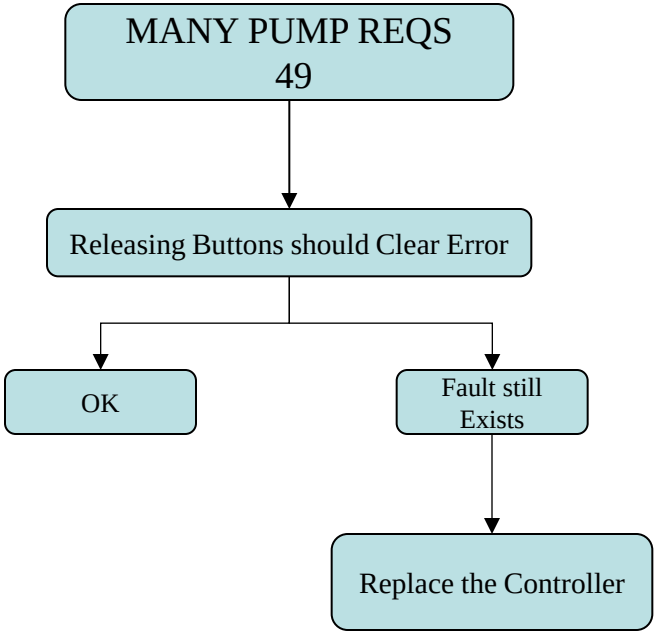
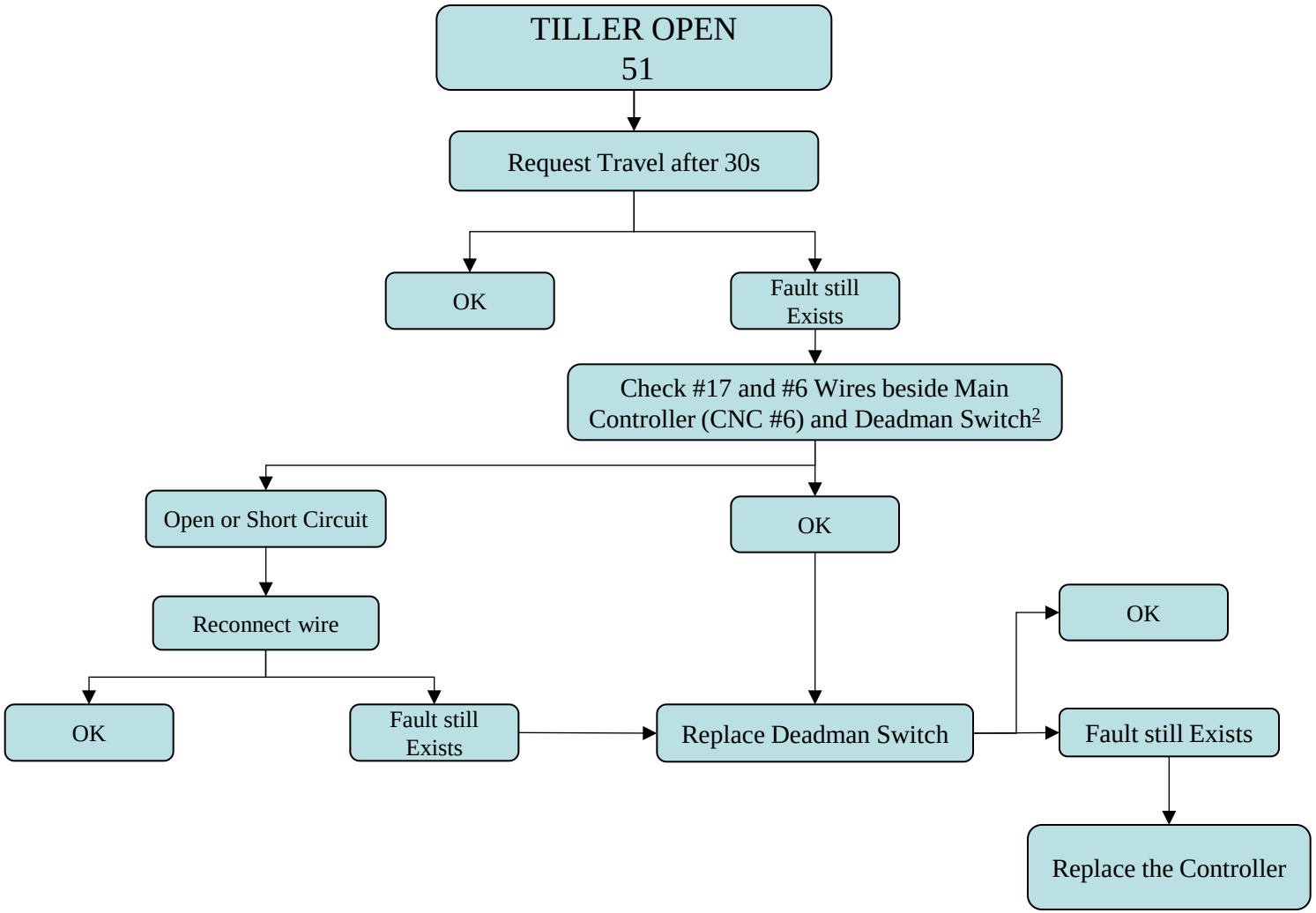
ALARM #49 on NODE #2 MANY PUMP REQS



ALARM #51 on NODE #2 TILLER OPEN



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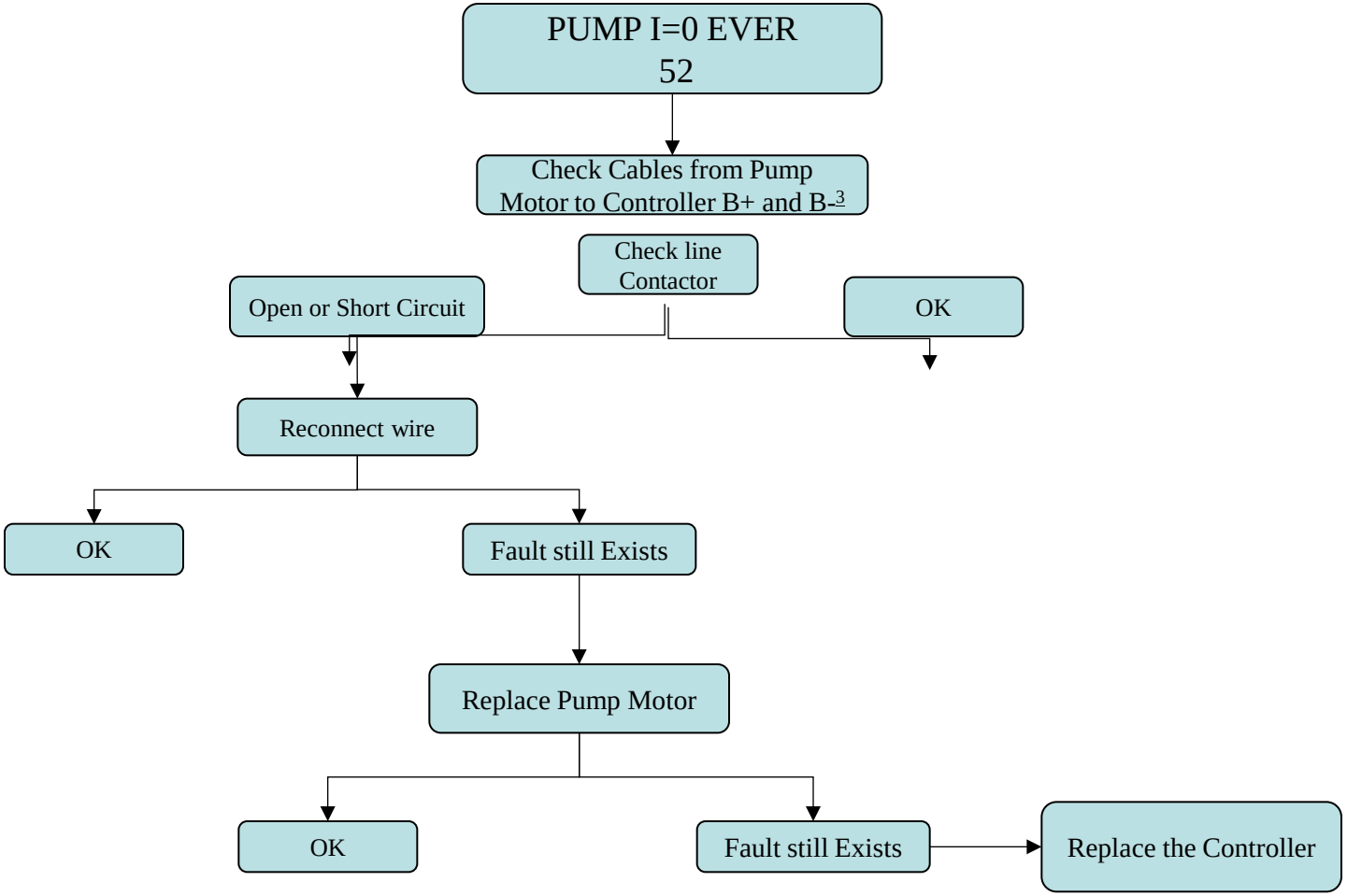
ALARM #52 on NODE #2 PUMP I=0 EVER



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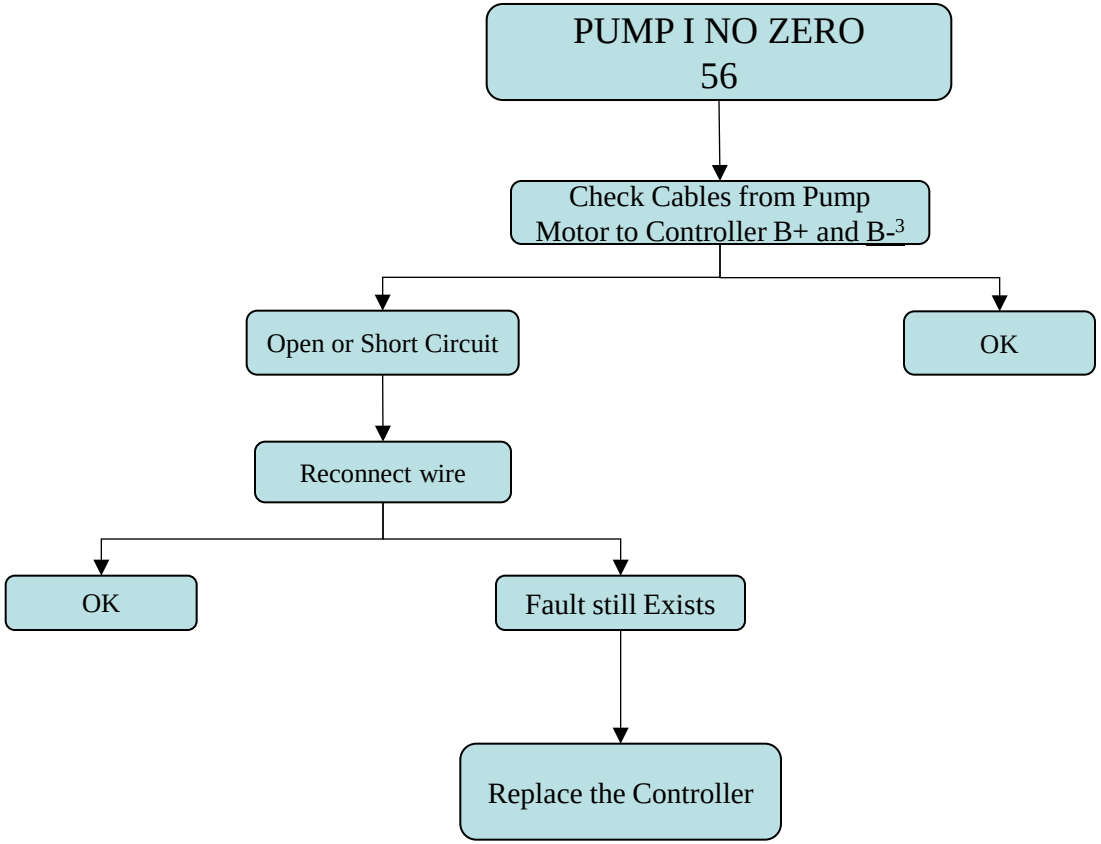
ALARM #56 on NODE #2 PUMP I NO ZERO



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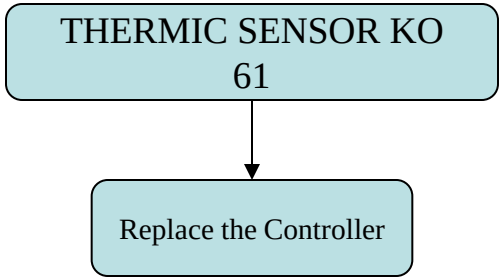
ALARM #61 on NODE #2 THERMIC SENSOR KO



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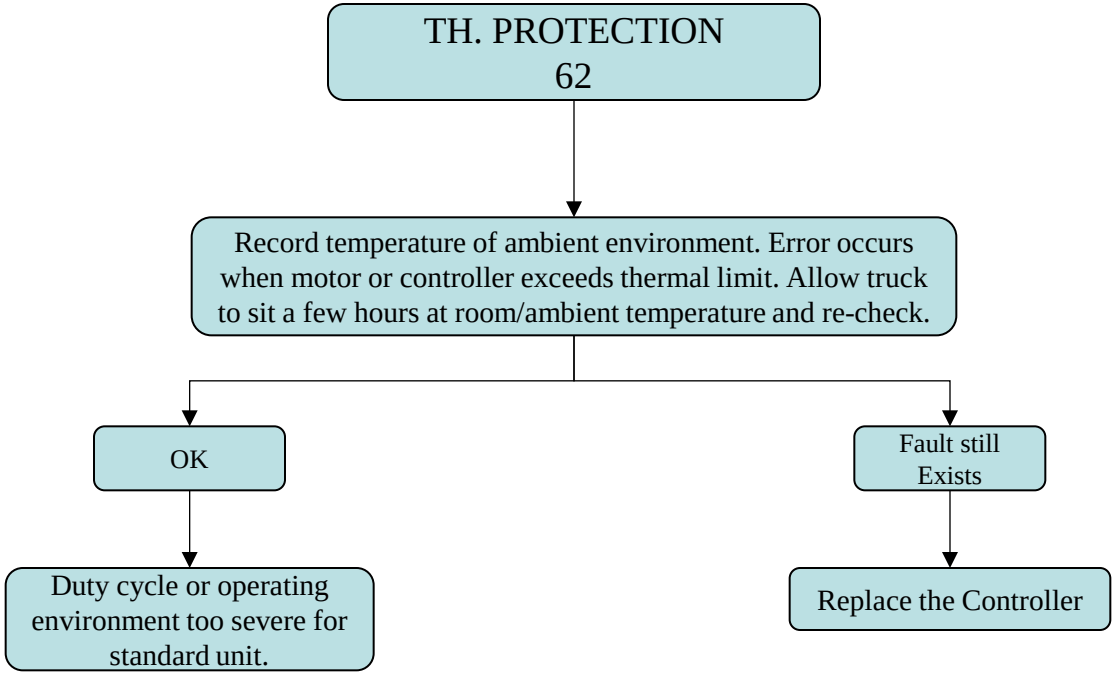
ALARM #62 on NODE #2 TH. PROTECTION



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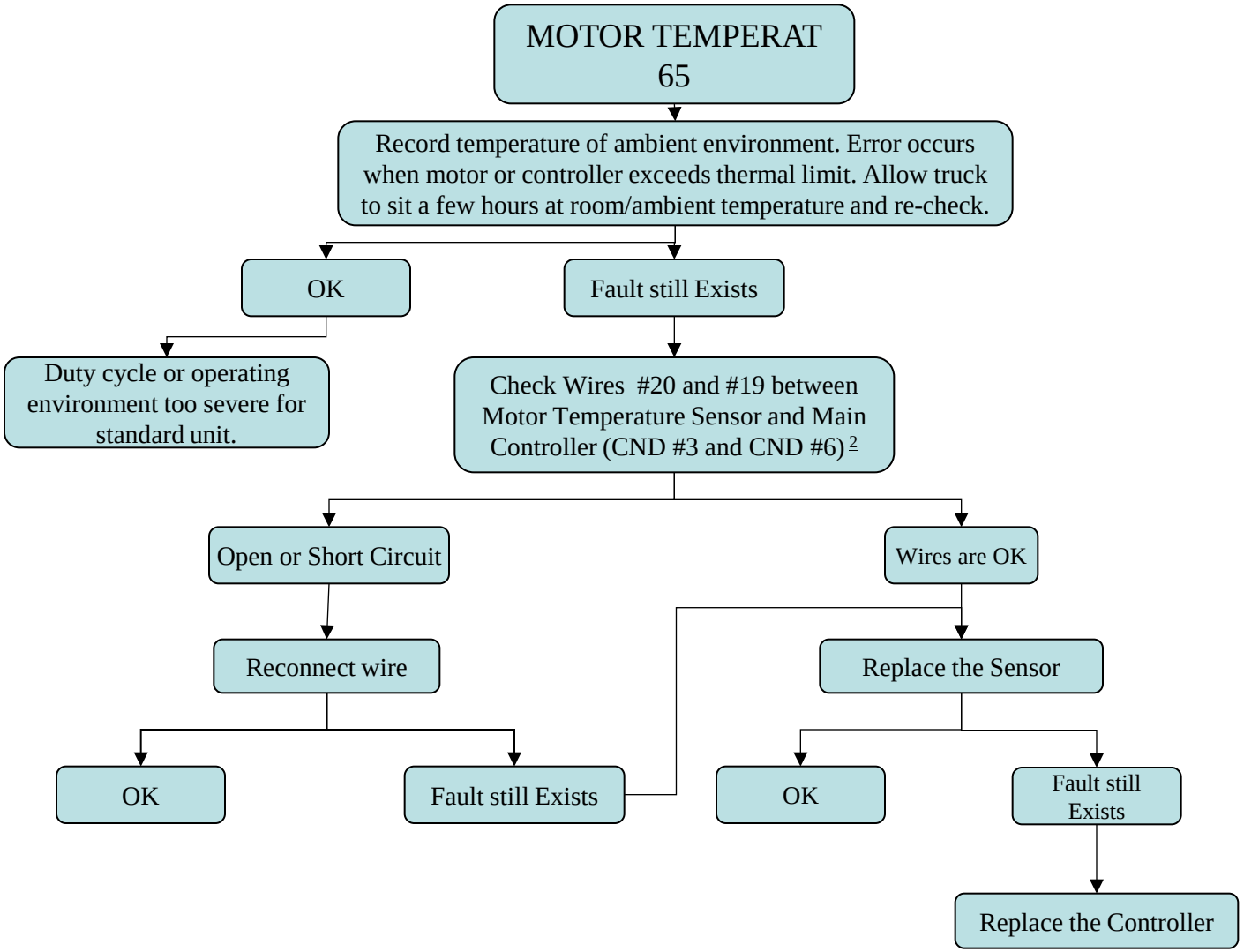
ALARM #65 on NODE #2 MOTOR TEMPERAT



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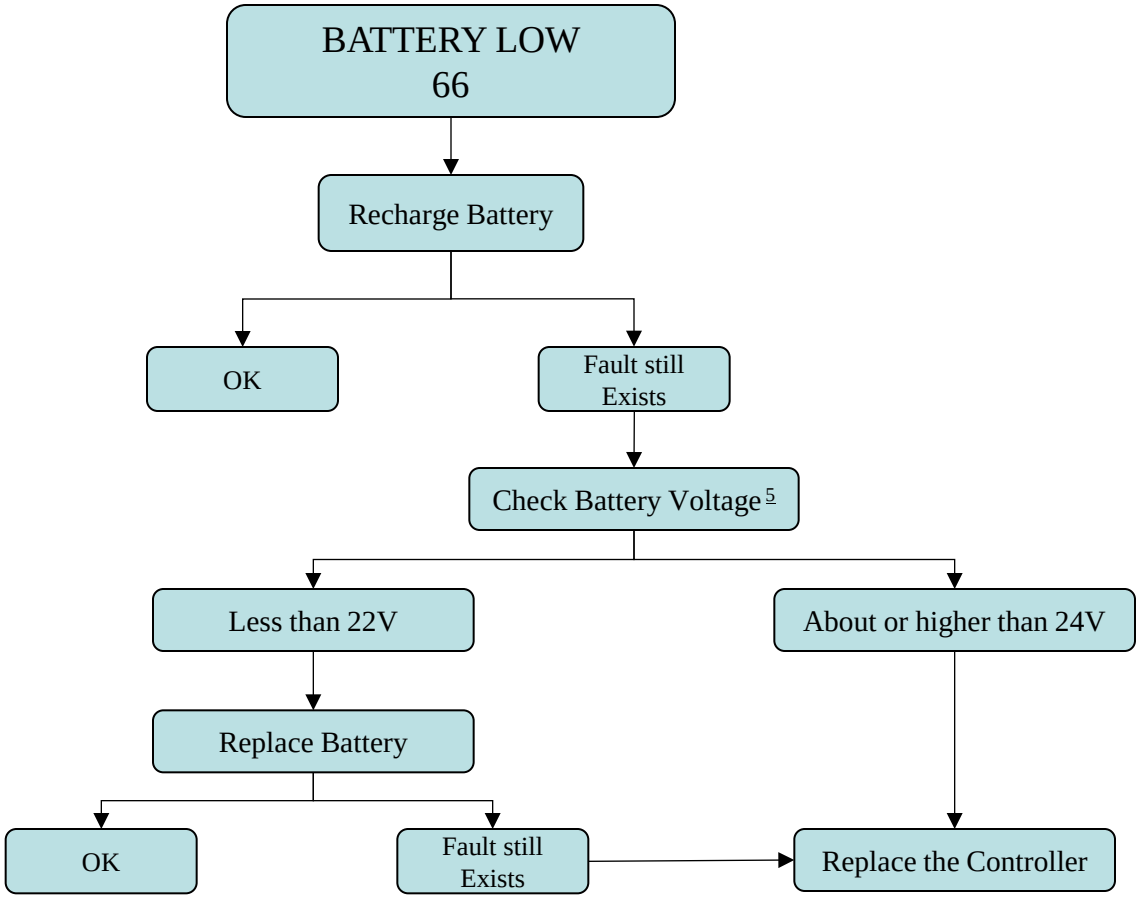
ALARM #66 on NODE #2 BATTERY LOW



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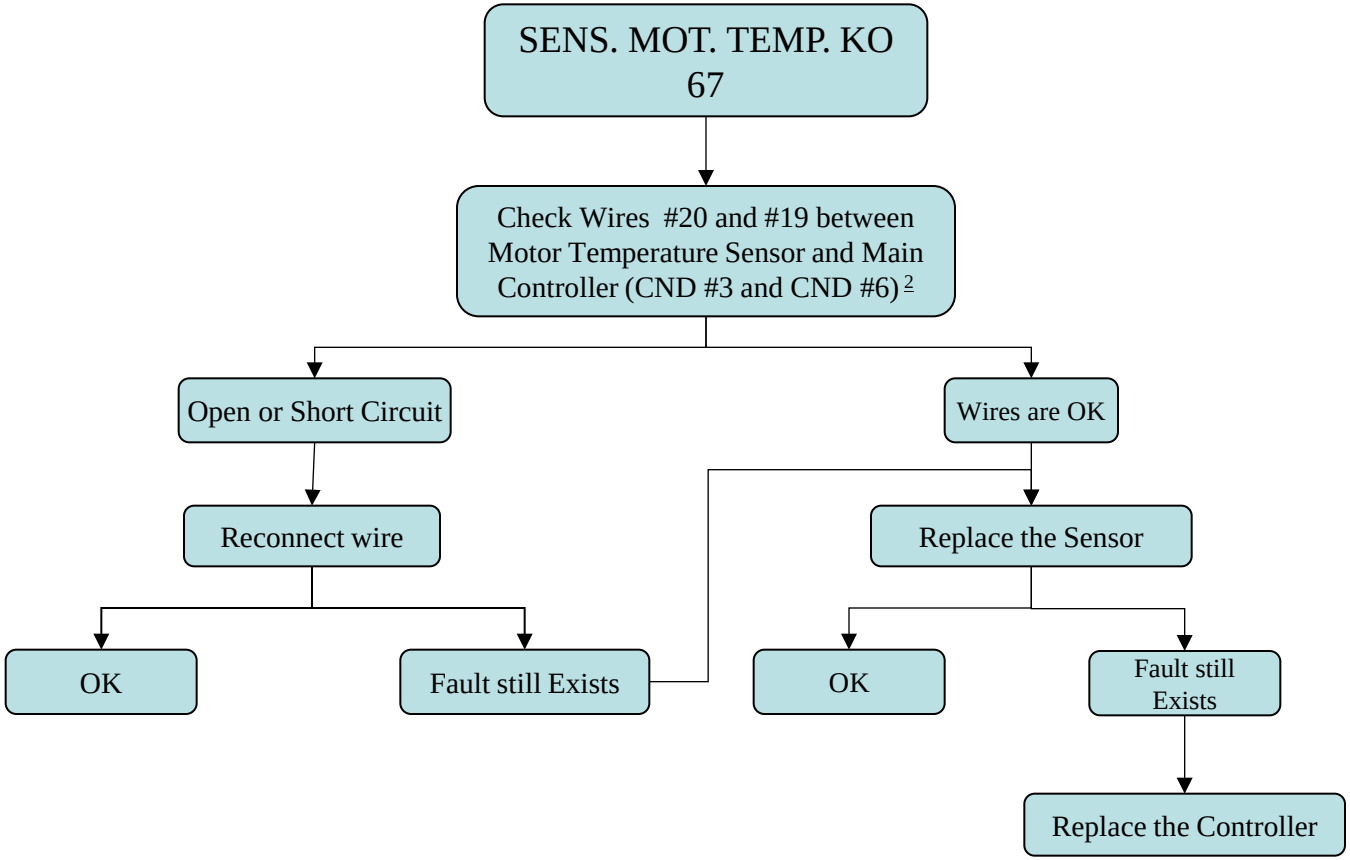
ALARM #67 on NODE #2 SENS. MOT. TEMP. KO



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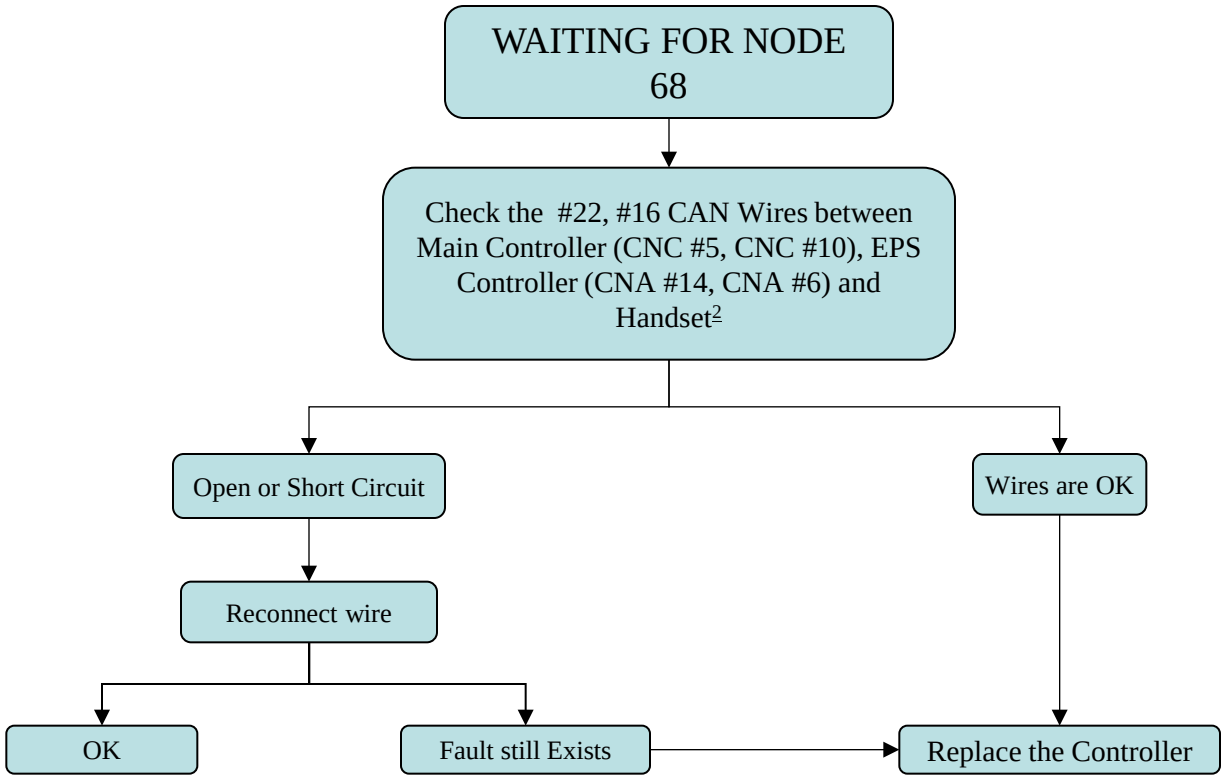
ALARM #68 on NODE #2 WAITING FOR NODE



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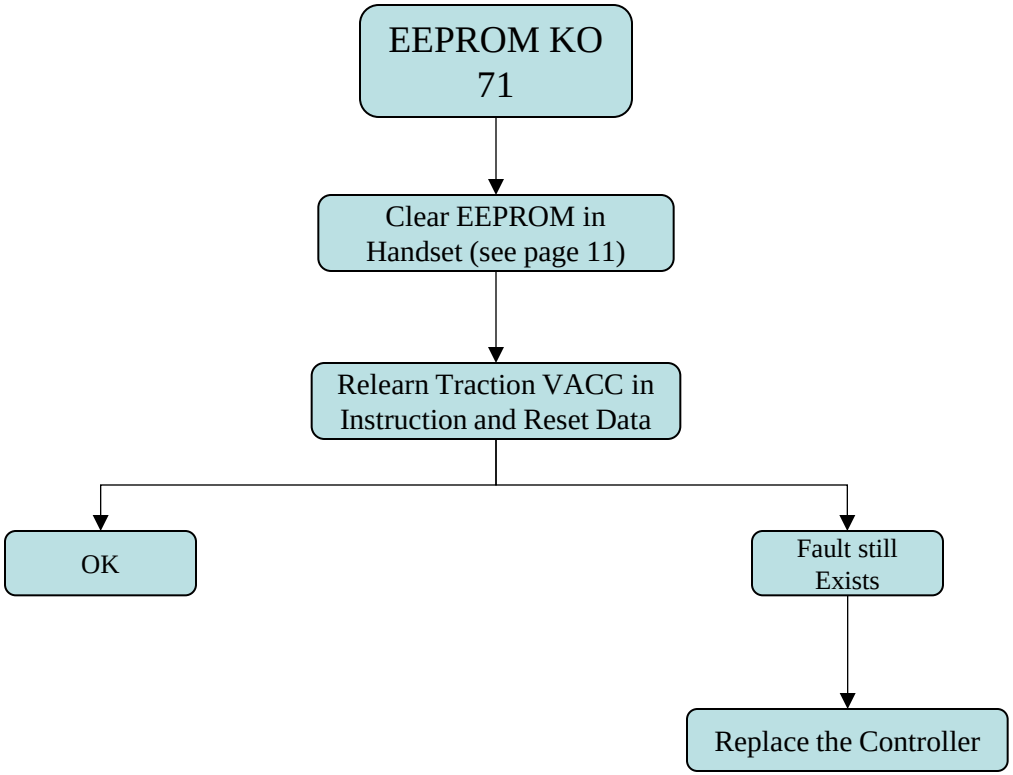
ALARM #71 on NODE #2 EEPROM KO



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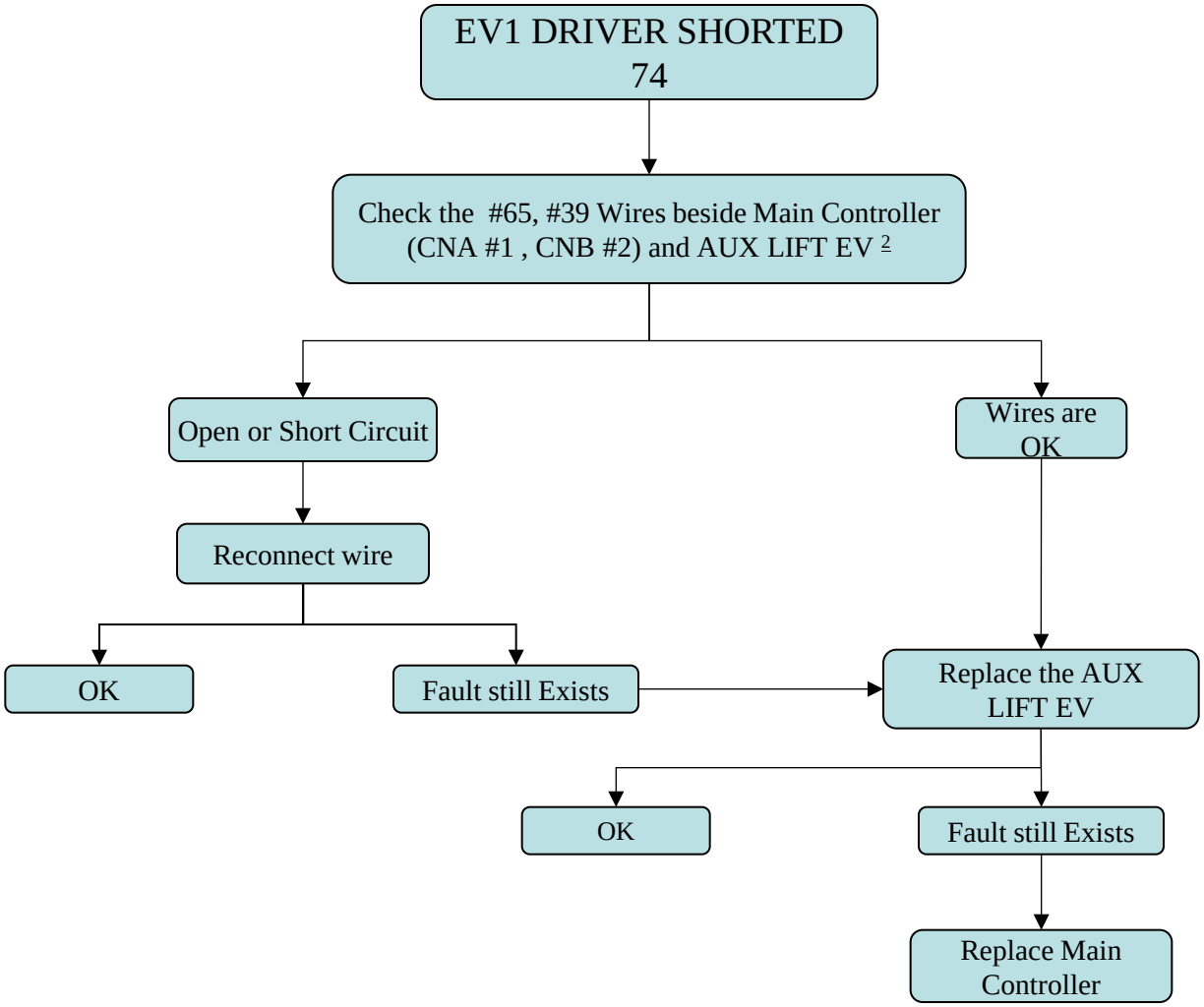
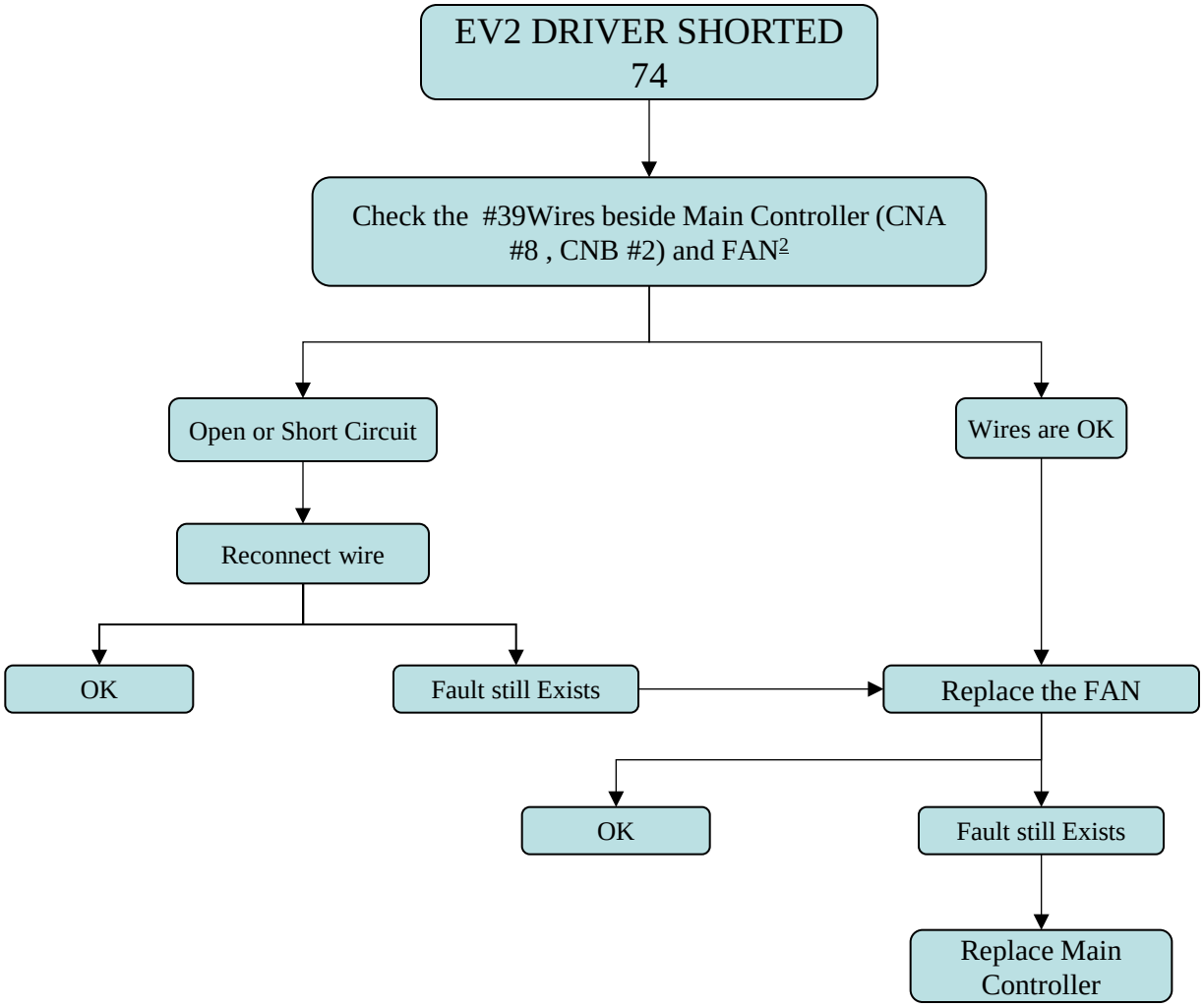
ALARM #74 on NODE #2 EV1 DRIVER SHORTED



ALARM #74 on NODE #2 EV2 DRIVER SHORTED



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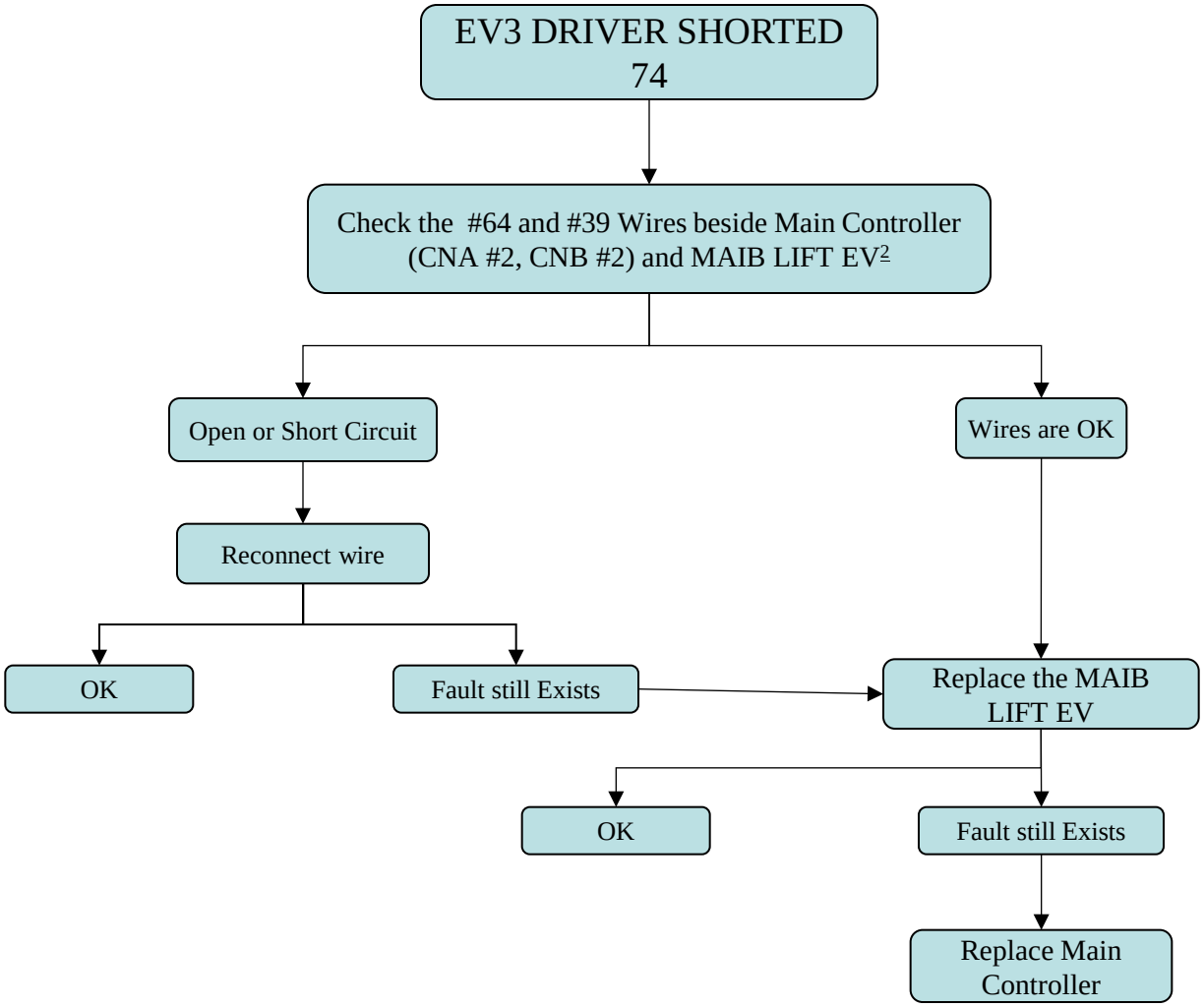
ALARM #74 on NODE #2 EV3 DRIVER SHORTED



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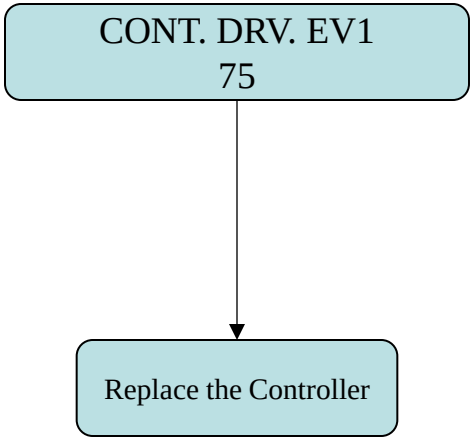
ALARM #75 on NODE #2 CONT. DRV. EV1



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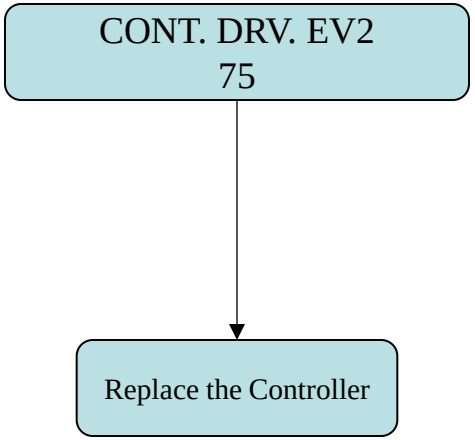
ALARM #75 on NODE #2 CONT. DRV. EV2



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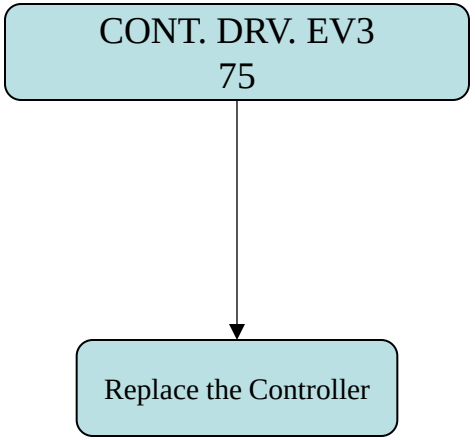
ALARM #75 on NODE #2 CONT. DRV. EV3



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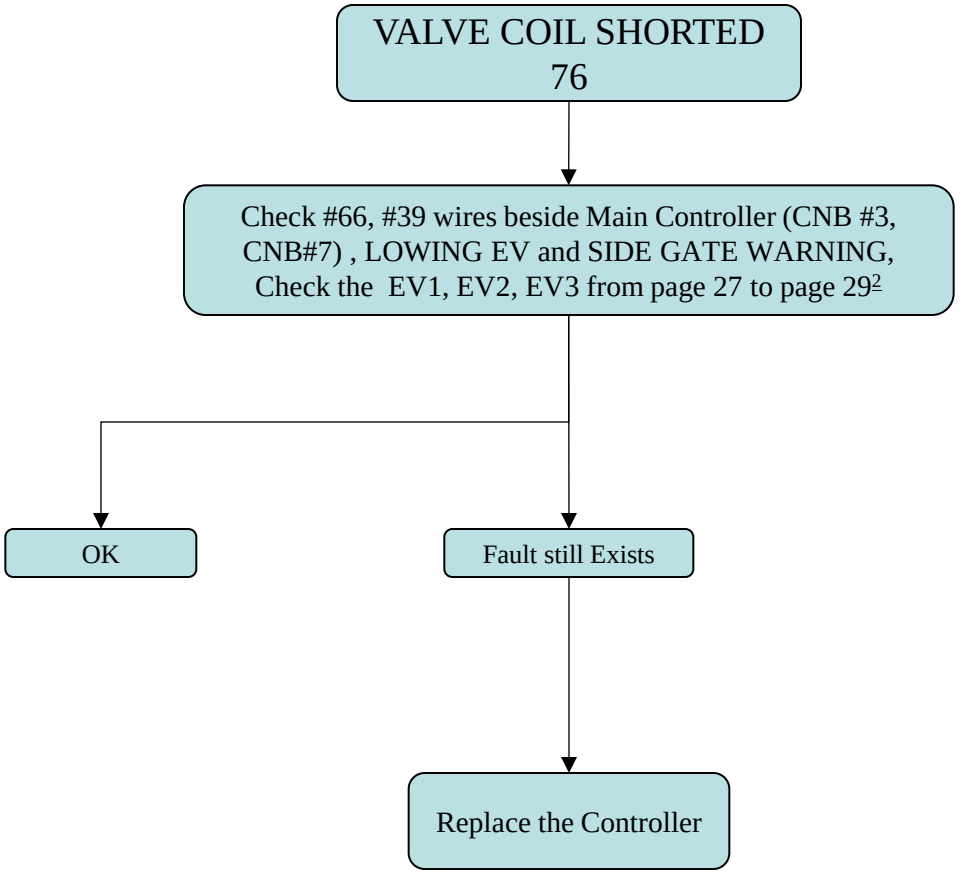
ALARM #76 on NODE #2 VALVE COIL SHORTED



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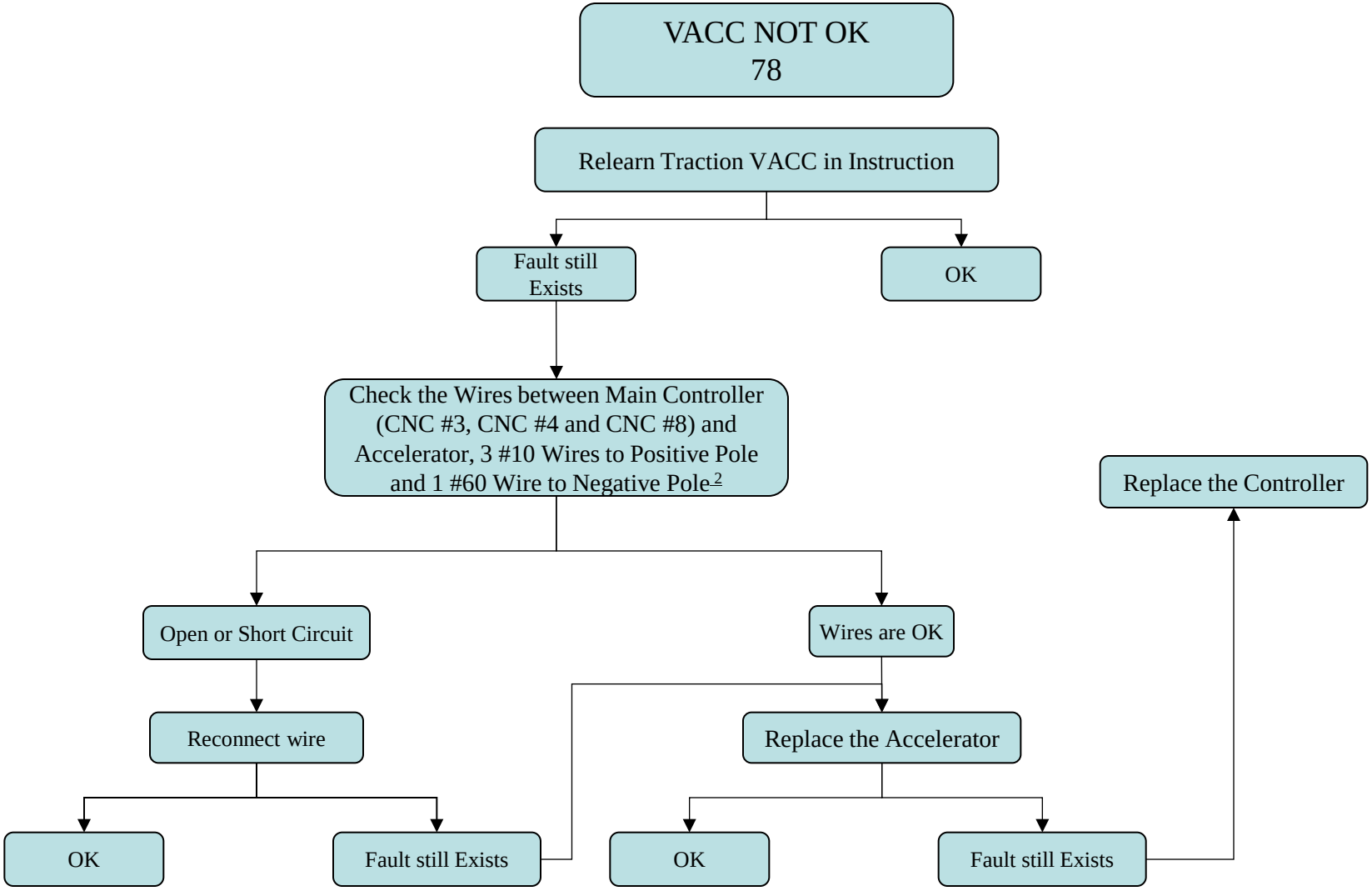
ALARM #78 on NODE #2 VACC NOT OK



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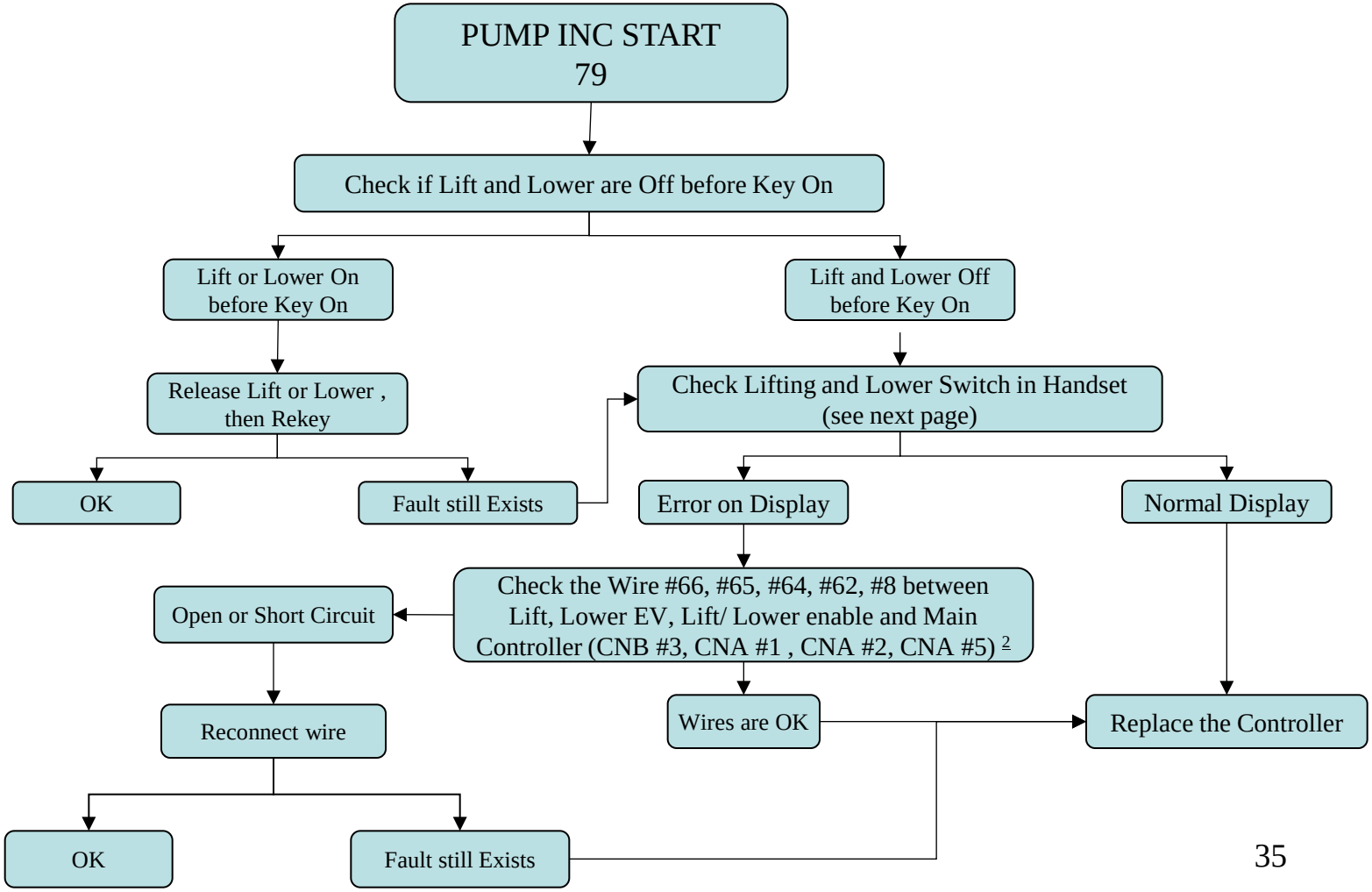
ALARM #79 on NODE #2 PUMP INC START



Check Lift and Lower Switch in Handset

Turn on ZAPI Handset

Push and hold the power button for 3s

Cons AFG ZP021*

The Display will show:

Press ^ or v button until CAN CONSOLE shows on the display

Cons AFG ZP021*
CAN CONSOLE

The Display will show :

Press OK to go into the CANCONSOLE Menu

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The Display will show:

CANCONSOLE
SELECT NODE

Push 》, or 《
To select Node 2

The Display will show:

SELECT NODE
NODE 2

Press OK to go into the
Traction controller

The Display will show:

ADXT2B 5 EP0.07
24V 240A 0H

Press OK to go into the
Main Menu

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The Display will show:

Main Menu

Press ^ or v button until TEST shows on the display

The Display will show:

MAIN MENU
TEST

Press OK to go into the TEST function

The Display will show:

TEST

Press ^ or v button until LIFT SW shows on the display

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The display will show:

LIFT EV SW OFF

Press the Lift Switch and hold on

The display will show:

LIFT EV SW ON

Repeat Step for Lower Switch:

LOWER EV SW OFF

LOWER EV SW ON

When finished , press and hold power button for 3s to turn off the Console

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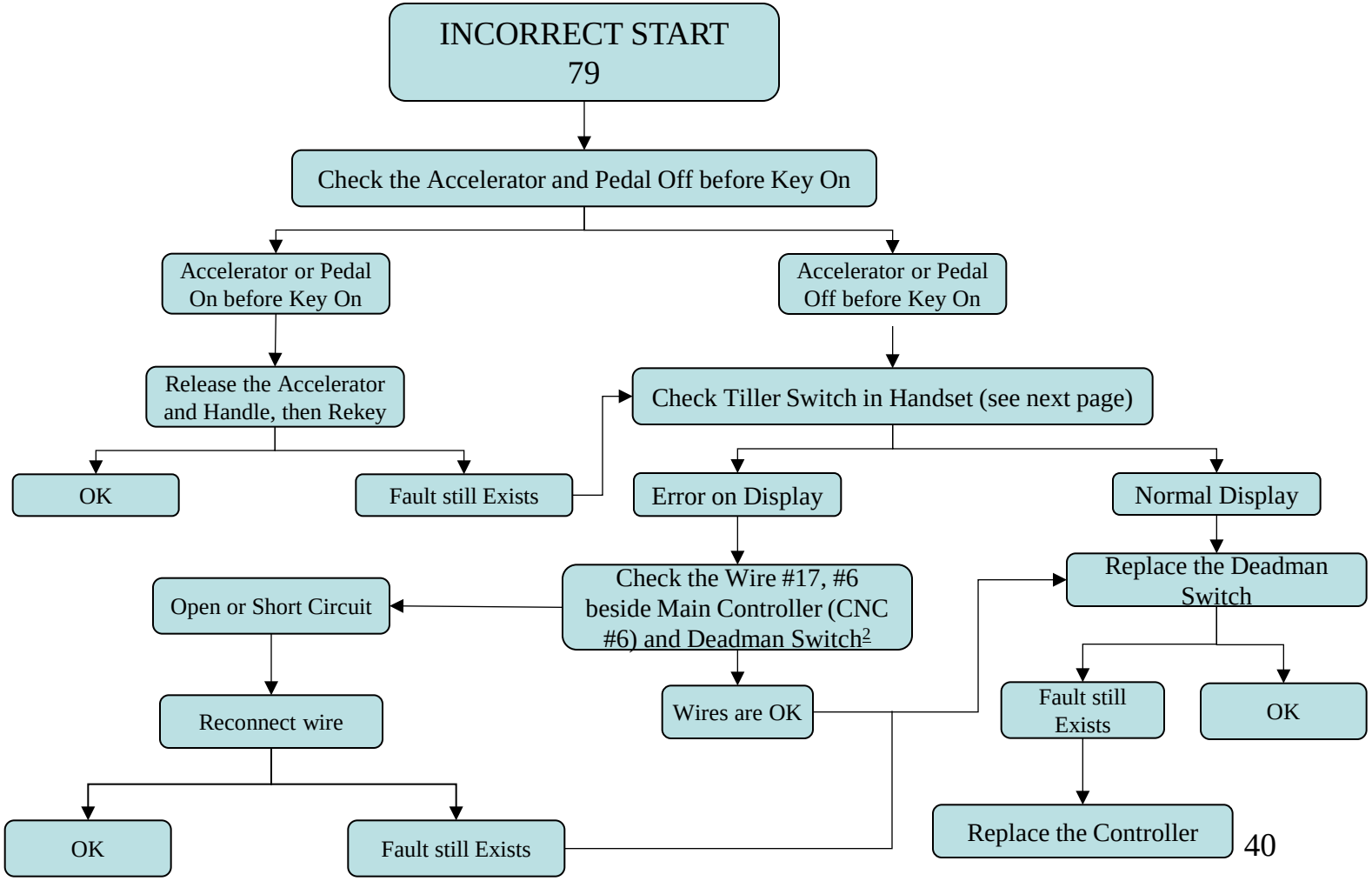
ALARM #79 on NODE #2 INCORRECT START



Check Tiller Switch in Handset

Turn on ZAPI Handset

Push and hold the power button for 3s

Cons AFG ZP021*

The Display will show:

Press ^ or v button until CAN CONSOLE shows on the display

Cons AFG ZP021*
CAN CONSOLE

The Display will show :

Press OK to go into the CANCONSOLE Menu

https://truckmanualshub.com/

The Display will show:

CANCONSOLE
SELECT NODE

Push 〉, or 〈
To select Node 2

The Display will show:

SELECT NODE
NODE 2

Press OK to go into the
Traction controller

The Display will show:

ADXT2B 5 EP0.07
24V 240A 0H

Press OK to go into the
Main Menu

https://truckmanualshub.com/

The Display will show:

Main Menu

Press ^ or v button until TEST shows on the display

The Display will show:

MAIN MENU
TEST

Press OK to go into the TEST function

The Display will show:

TEST

Press ^ or v button until HANDLE/ SEAT SW shows on the display

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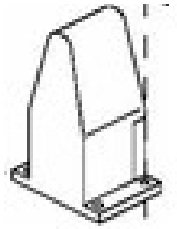
The display will show:

HANDLE/ SEAT SW OFF

Push the accelerator forward and hold on



The display will show:

HANDLE/ SEAT SW ON

When finished , press and hold power button for 3s to turn off the Console

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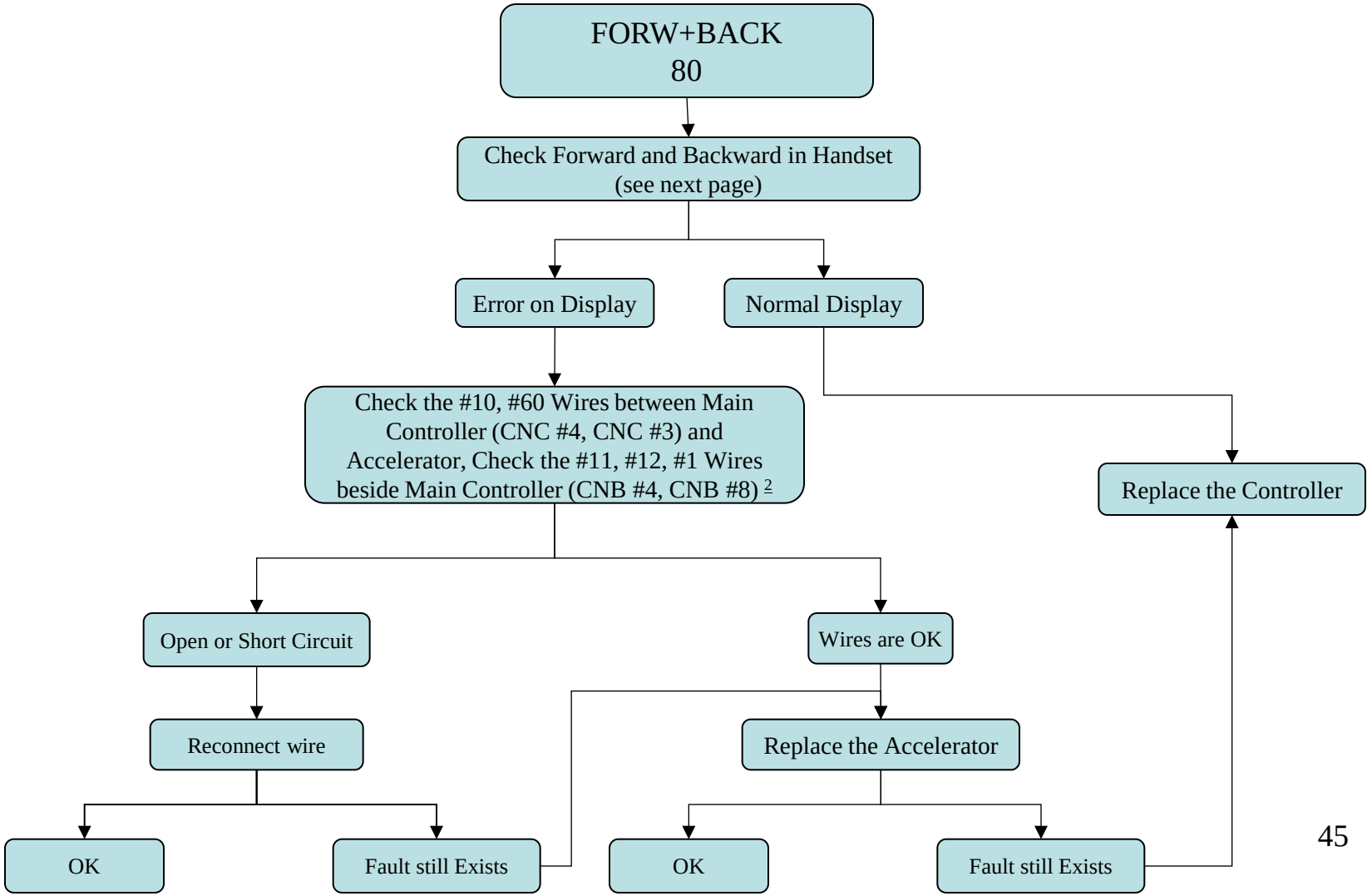
ALARM #80 on NODE #2 FORW+BACK



Check Forward and Backward in Handset

Turn on ZAPI Handset

Push and hold the power button for 3s

Cons AFG ZP021*

The Display will show:

Press ^ or v button until CAN CONSOLE shows on the display

Cons AFG ZP021*
CAN CONSOLE

The Display will show :

Press OK to go into the CANCONSOLE Menu

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The Display will show:

CANCONSOLE
SELECT NODE

Push 》, or 《
To select Node 2

The Display will show:

SELECT NODE
NODE 2

Press OK to go into the
Traction controller

The Display will show:

ADXT2B 5 EP0.07
24V 240A 0H

Press OK to go into the
Main Menu

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The Display will show:

Main Menu

Press ^ or v button until TEST shows on the display

The Display will show:

MAIN MENU
TEST

Press OK to go into the TEST function

The Display will show:

TEST

Press ^ or v button until FORWARD shows on the display

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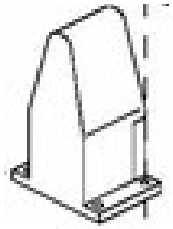
The display will show:

FORWARD OFF

Push the accelerator forward and hold on



The display will show:

FORWARD ON

Repeat step for reverse direction

BACKWARD OFF
BACKWARD ON

When finished , press and hold power button for 3s to turn off the Console

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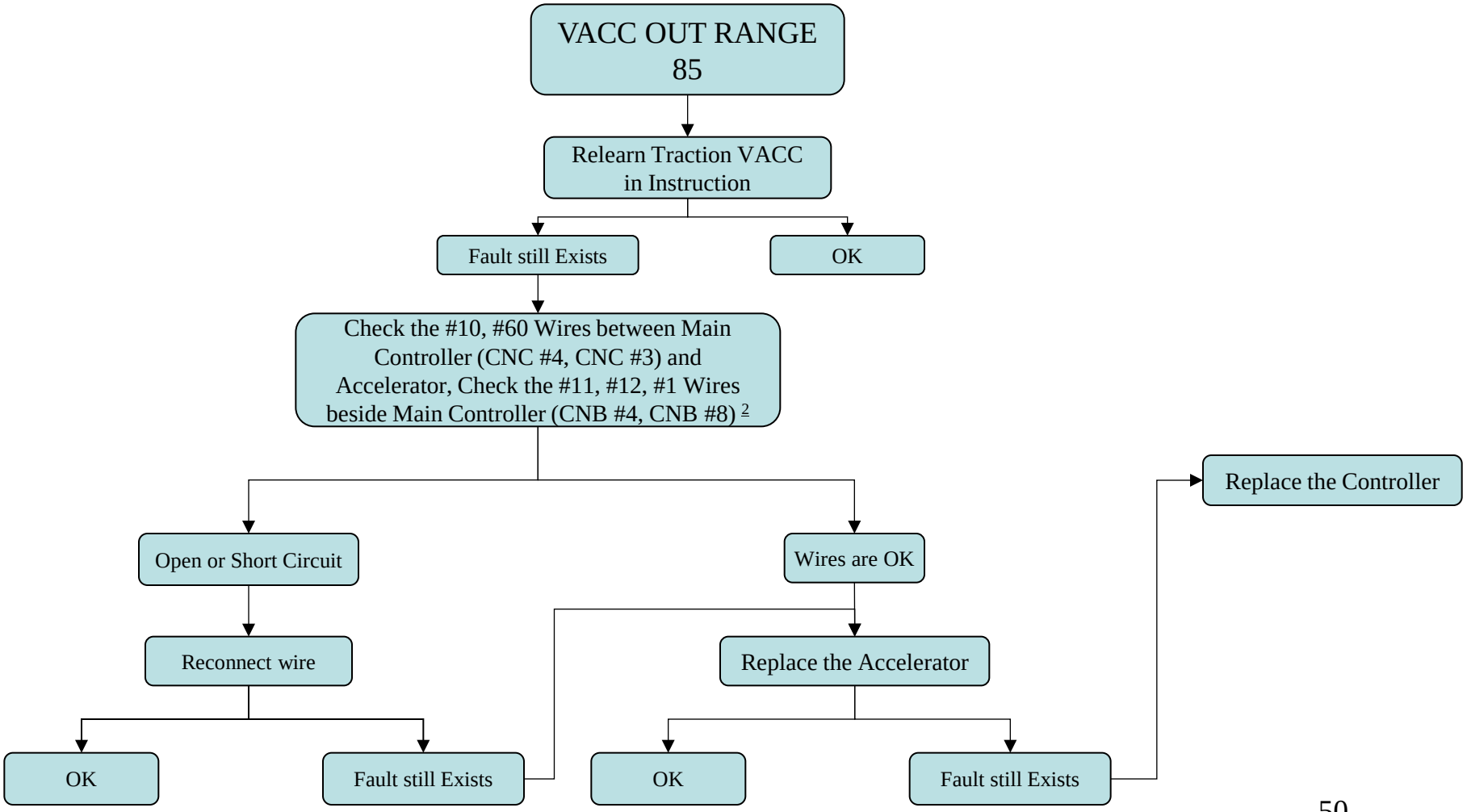
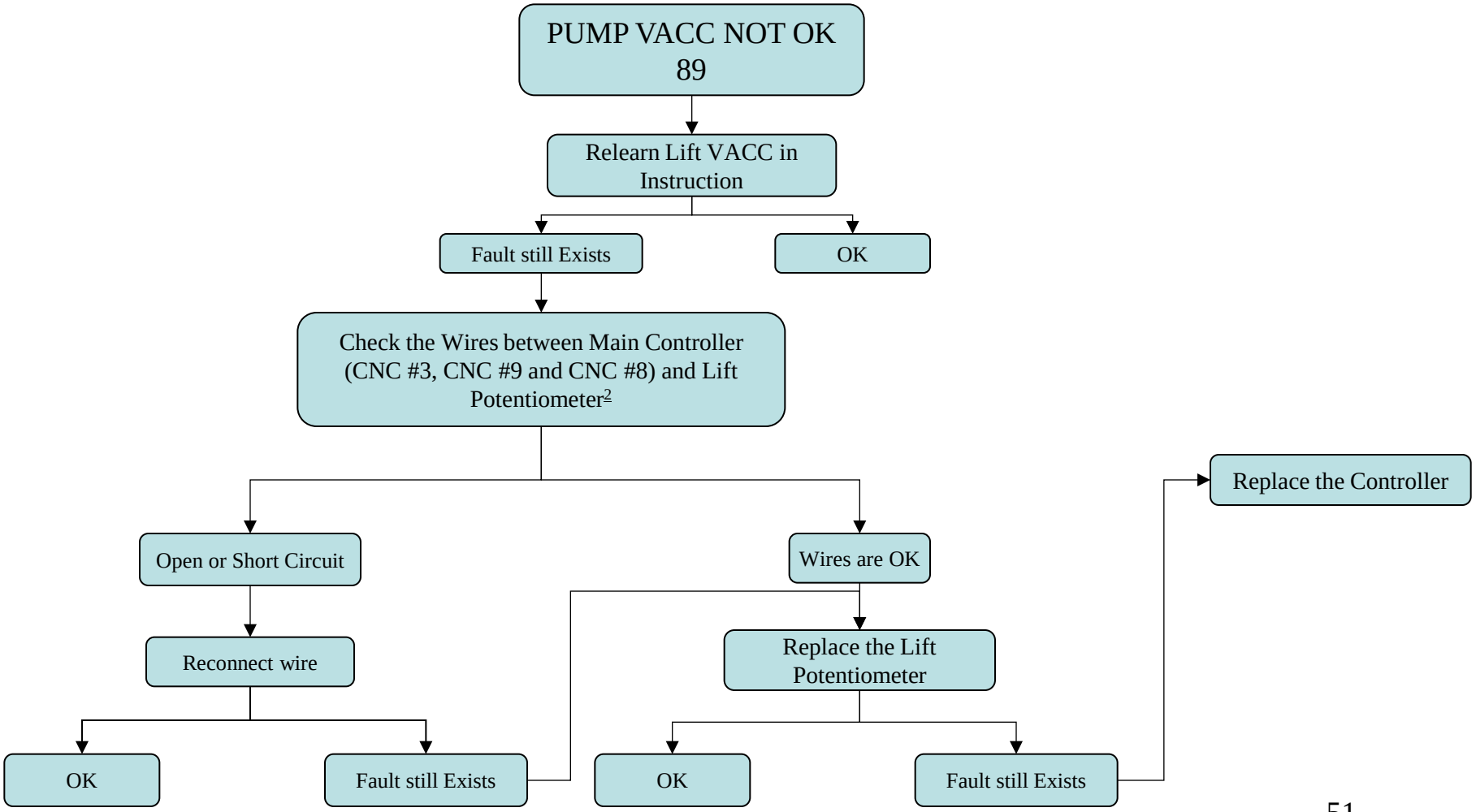
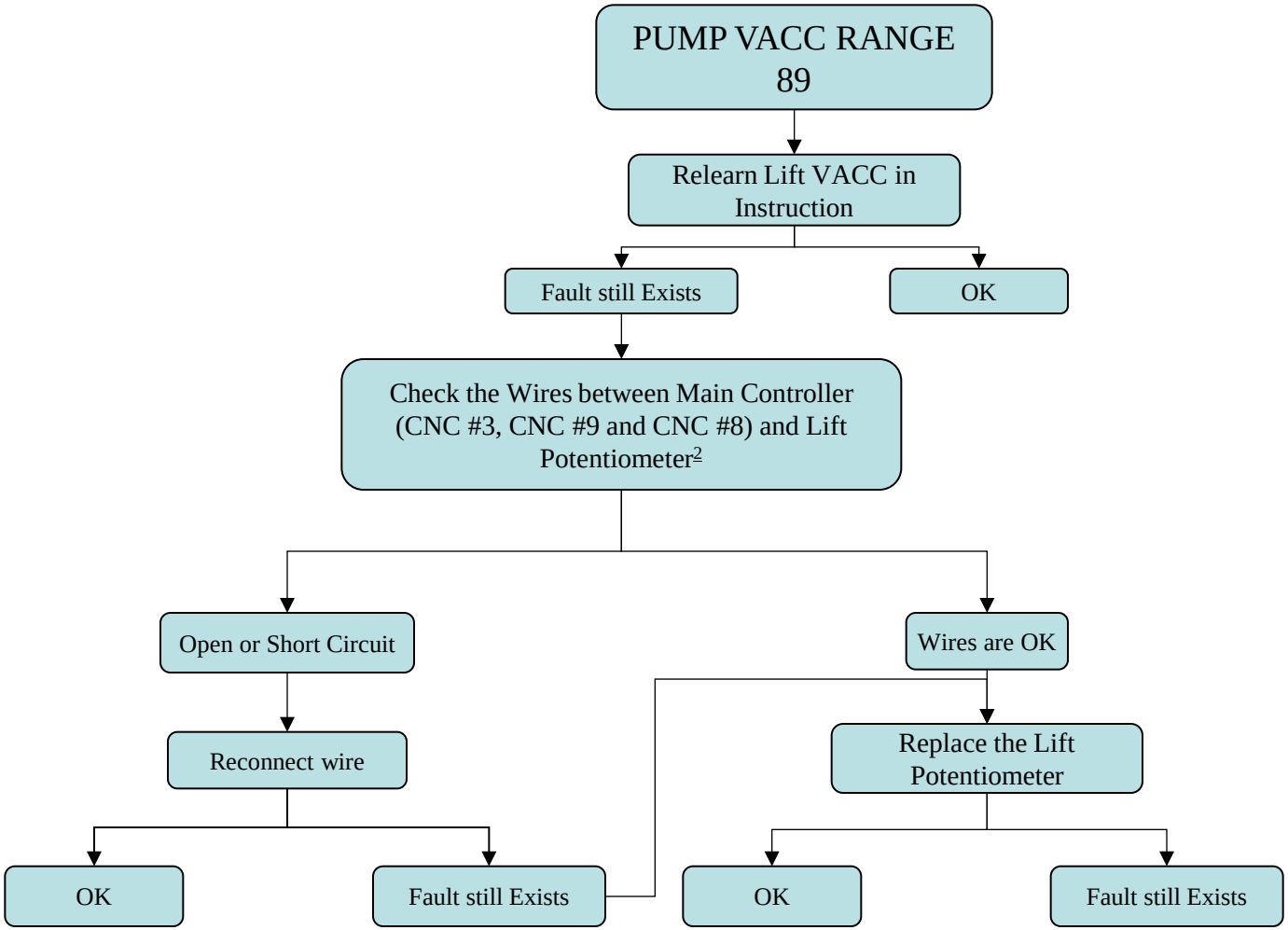
ALARM #85 on NODE #2 VACC OUT RANGE



ALARM #89 on NODE #2 PUMP VACC NOT OK



ALARM #90 on NODE #2 PUMP VACC RANGE



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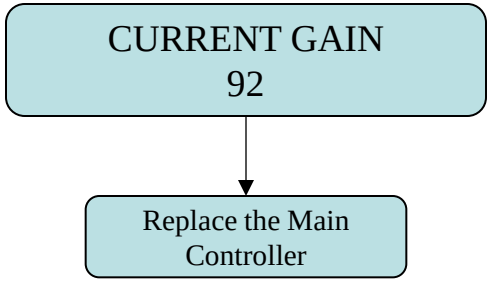
ALARM #92 on NODE #2 CURRENT GAIN



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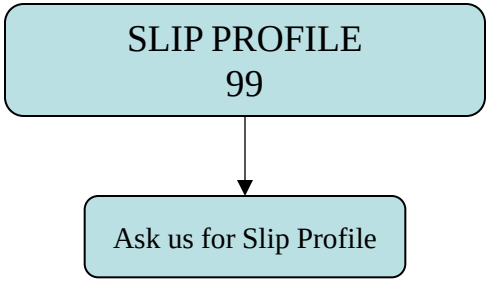
ALARM #99 on NODE #2 SLIP PROFILE



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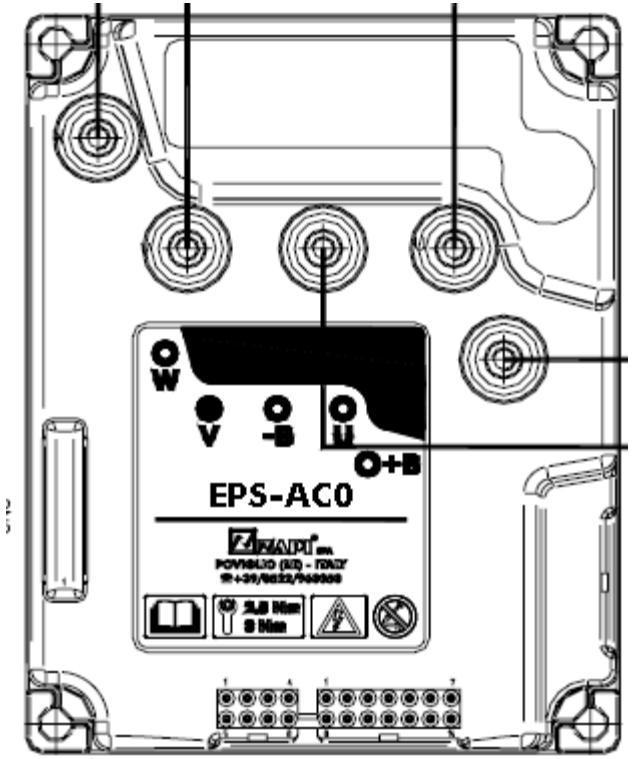
EPS Controller



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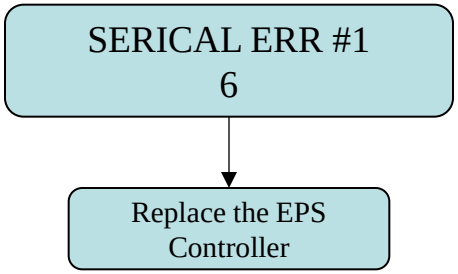
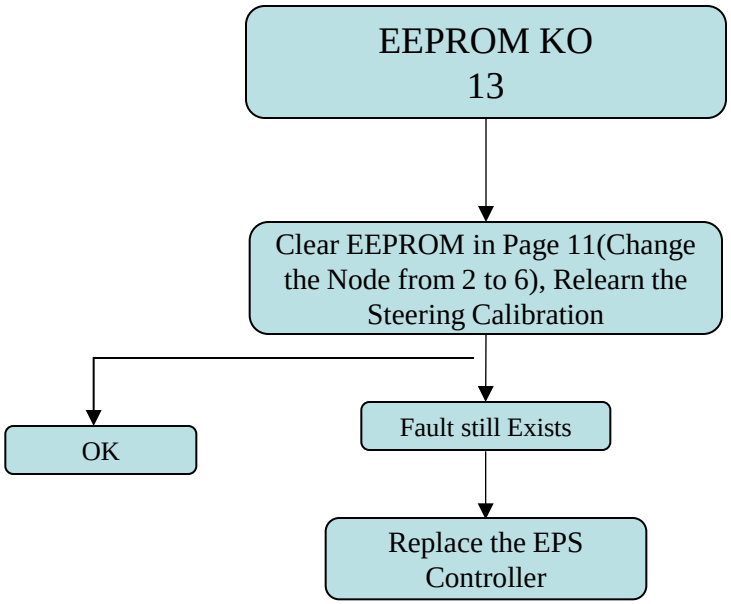
ALARM #6 on NODE #6 SERIAL ERR #1



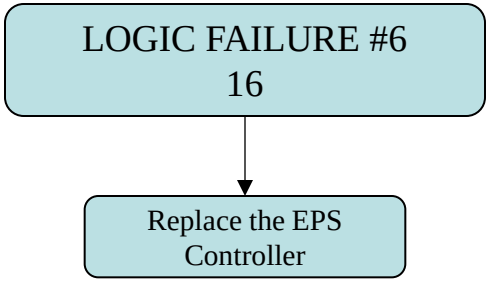
https://truckmanualshub.com/

ALARM #13 on NODE #6 EEPROM KO



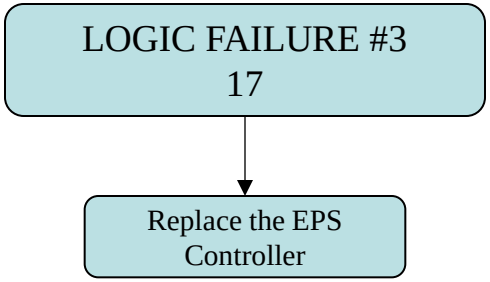
https://truckmanualshub.com/

ALARM #16 on NODE #6 LOGIC FAILURE #4



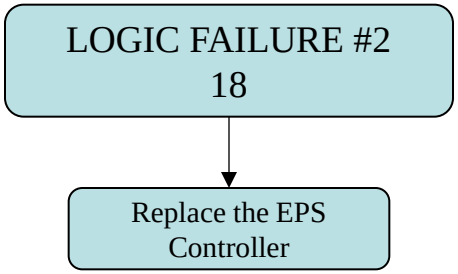
https://truckmanualshub.com/

ALARM #17 on NODE #6 LOGIC FAILURE #3



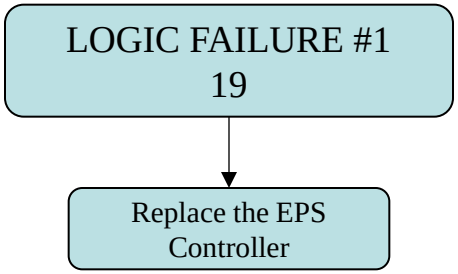
https://truckmanualshub.com/

ALARM #18 on NODE #6 LOGIC FAILURE #2



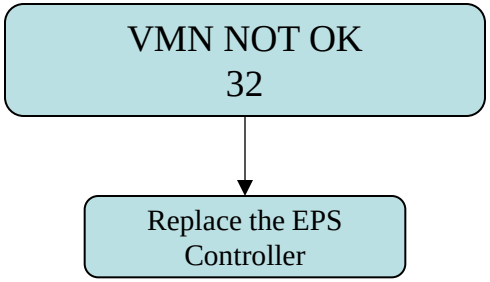
https://truckmanualshub.com/

ALARM #19 on NODE #6 LOGIC FAILURE #1



https://truckmanualshub.com/

ALARM #32 on NODE #6 VMN NOT OK



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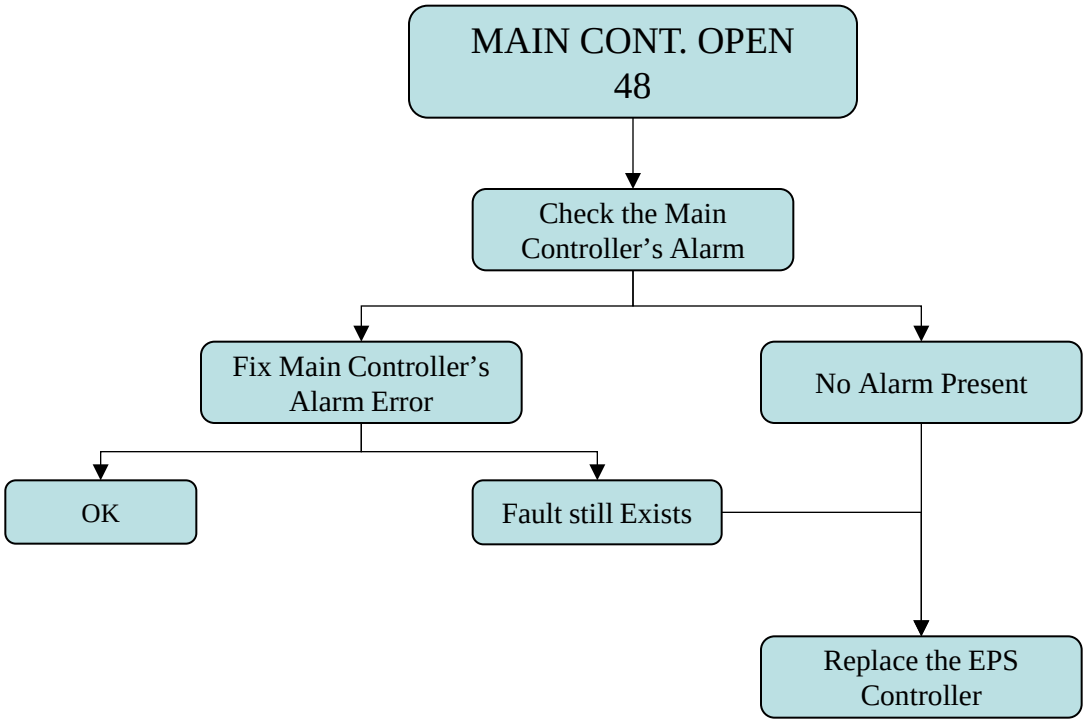
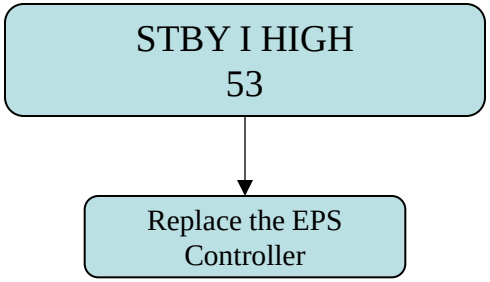
ALARM #48 on NODE #6 MAIN CONT. OPEN



https://truckmanualshub.com/

ALARM #53 on NODE #6 STBY I HIGH



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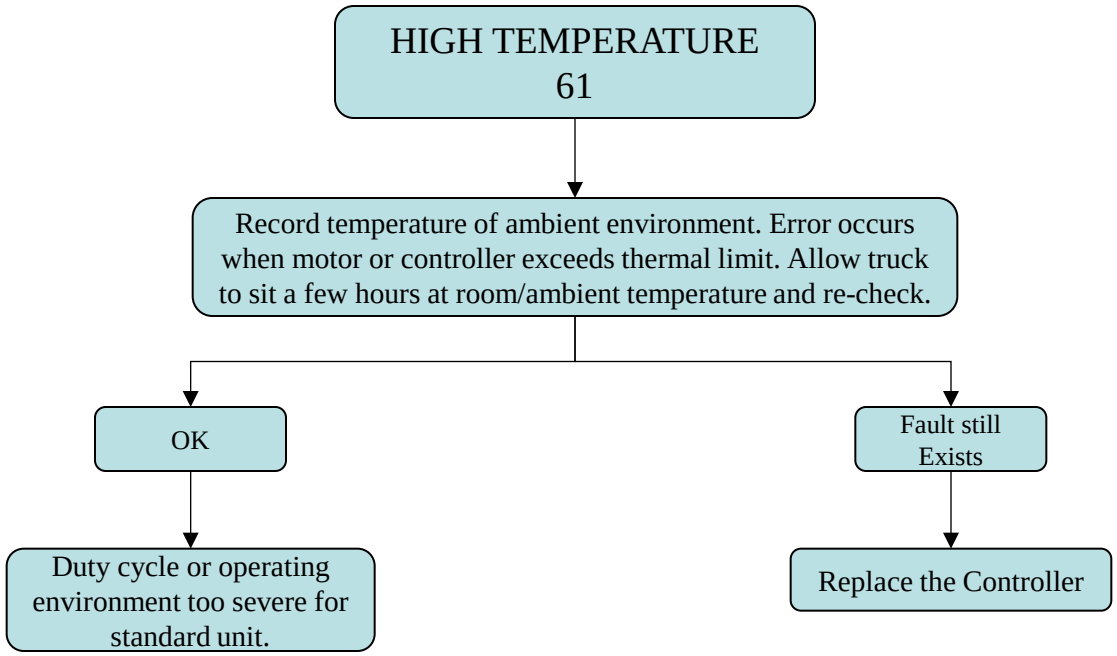
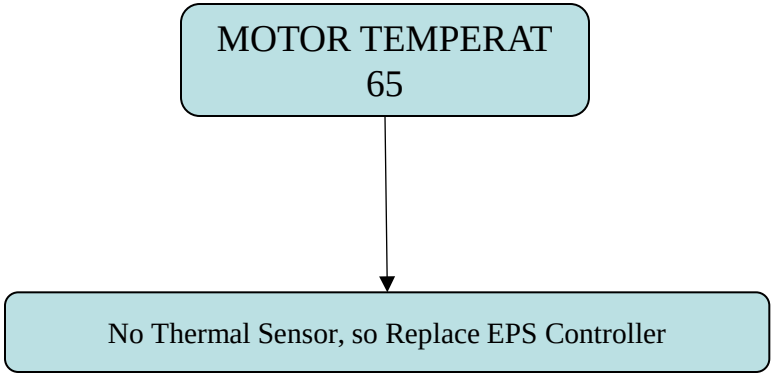
ALARM #61 on NODE #6 HIGH TEMPERATURE



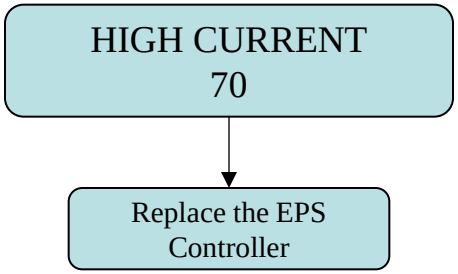
https://truckmanualshub.com/

ALARM #65 on NODE #6 MOTOR TEMPERAT



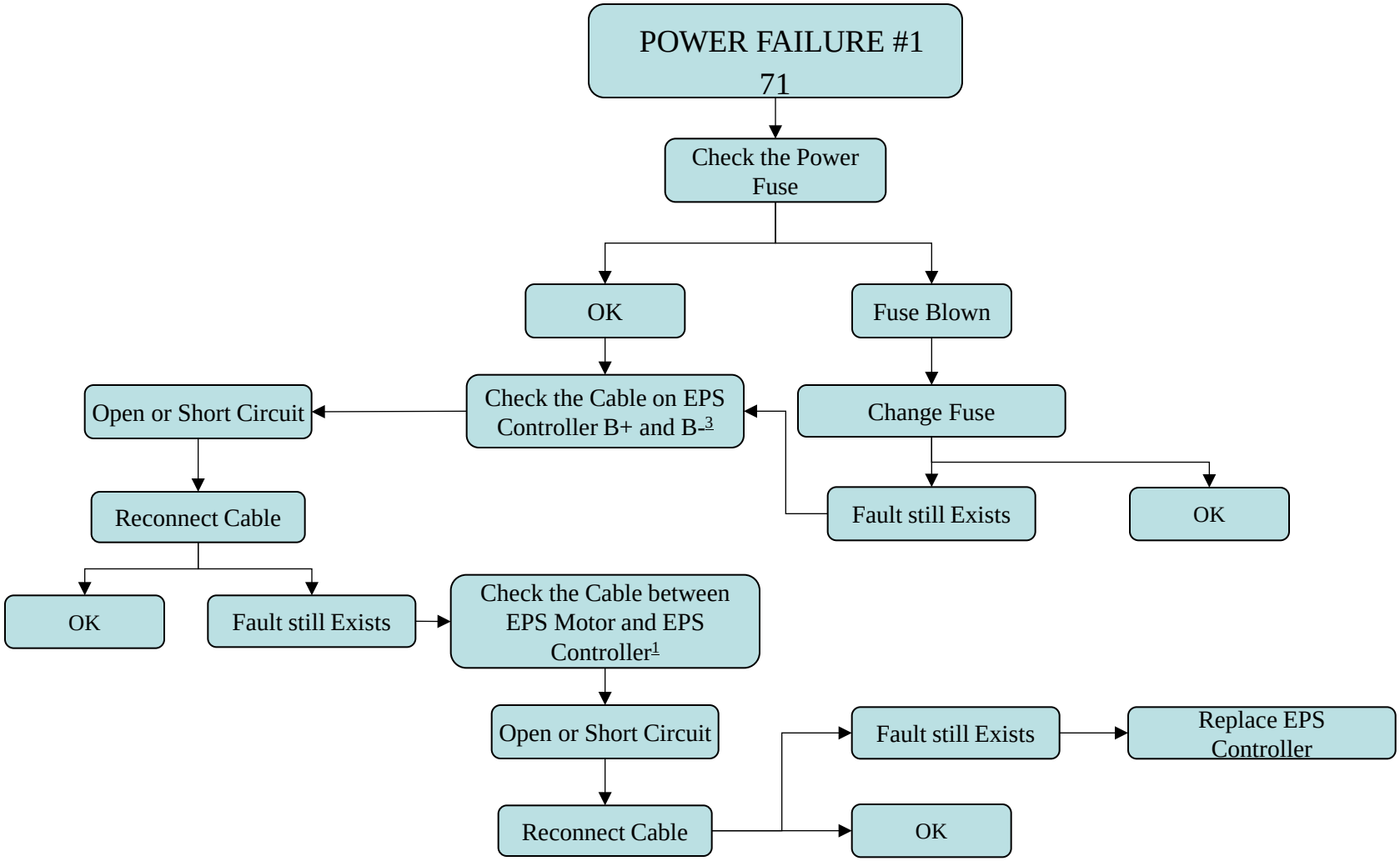
https://truckmanualshub.com/

ALARM #70 on NODE #6 HIGH CURRENT



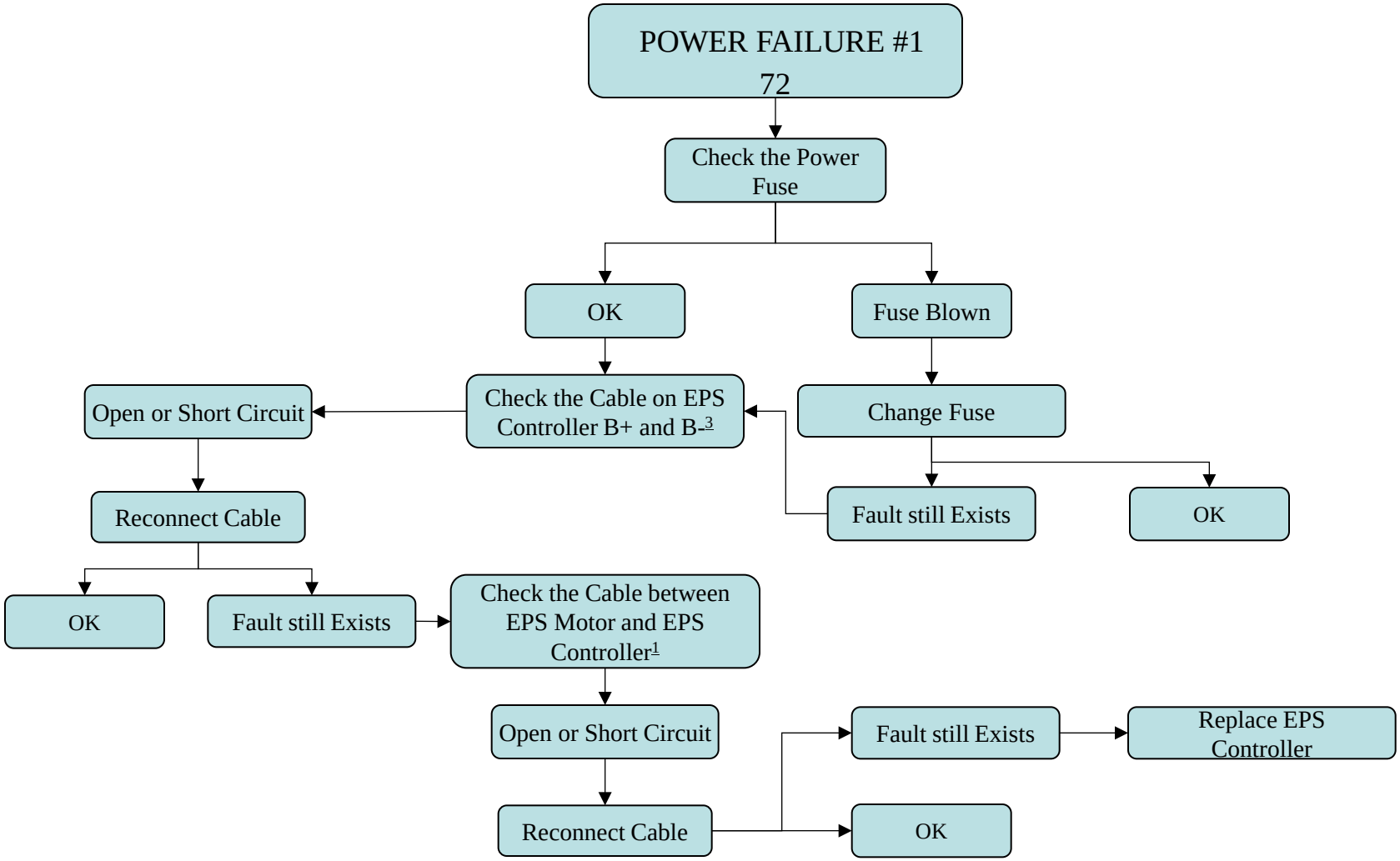
https://truckmanualshub.com/

ALARM #71 on NODE #6 POWER FAILURE #3



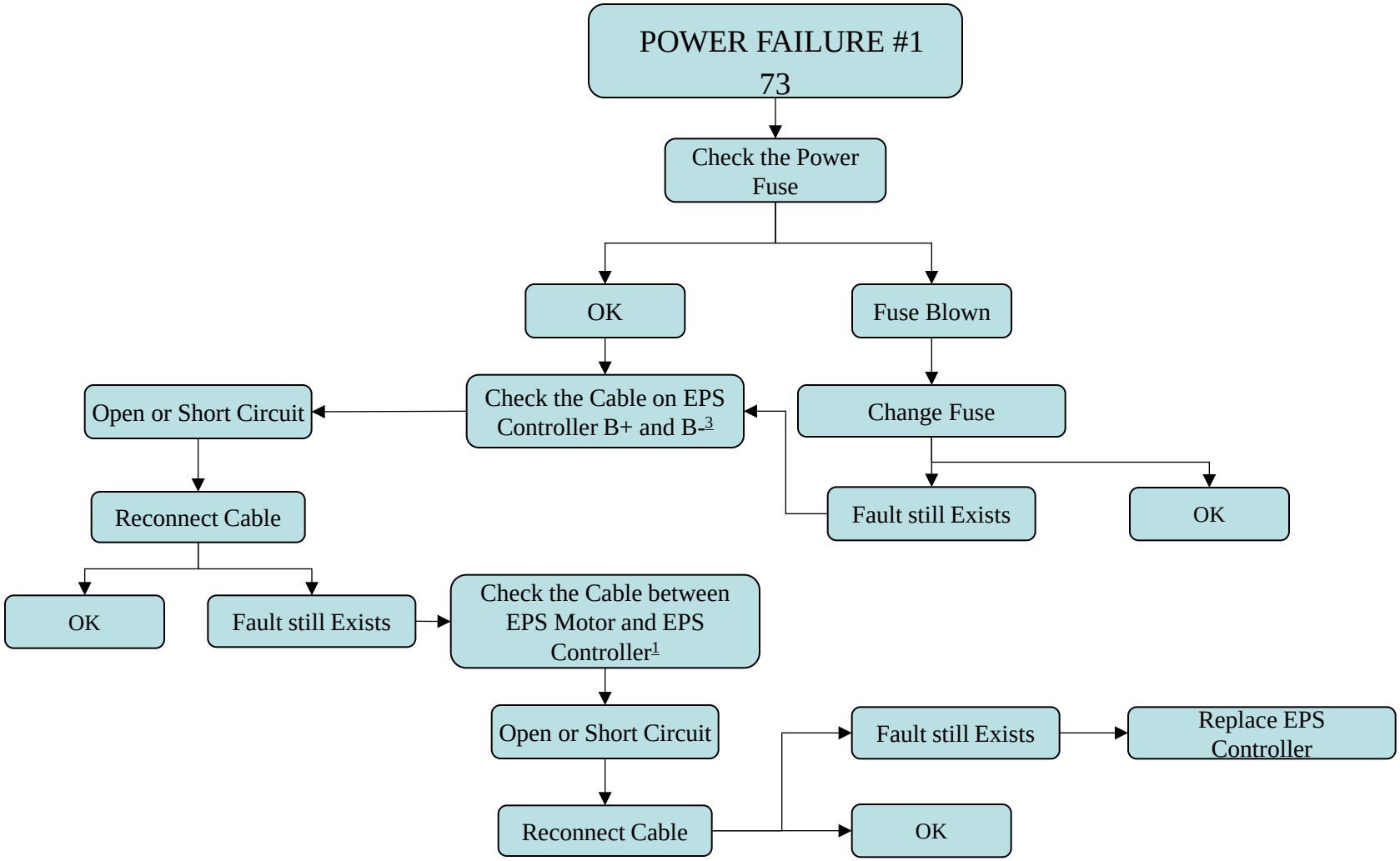
https://truckmanualshub.com/

ALARM #72 on NODE #6 POWER FAILURE #2



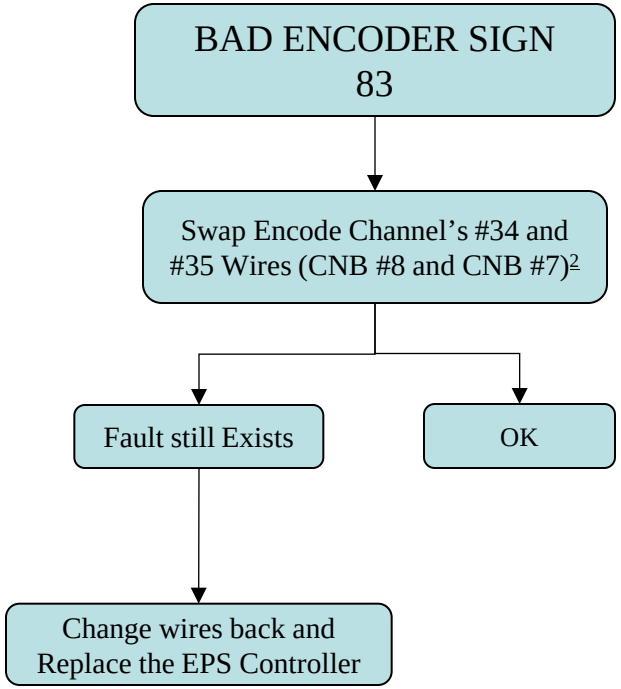
https://truckmanualshub.com/

ALARM #73 on NODE #6 POWER FAILURE #1



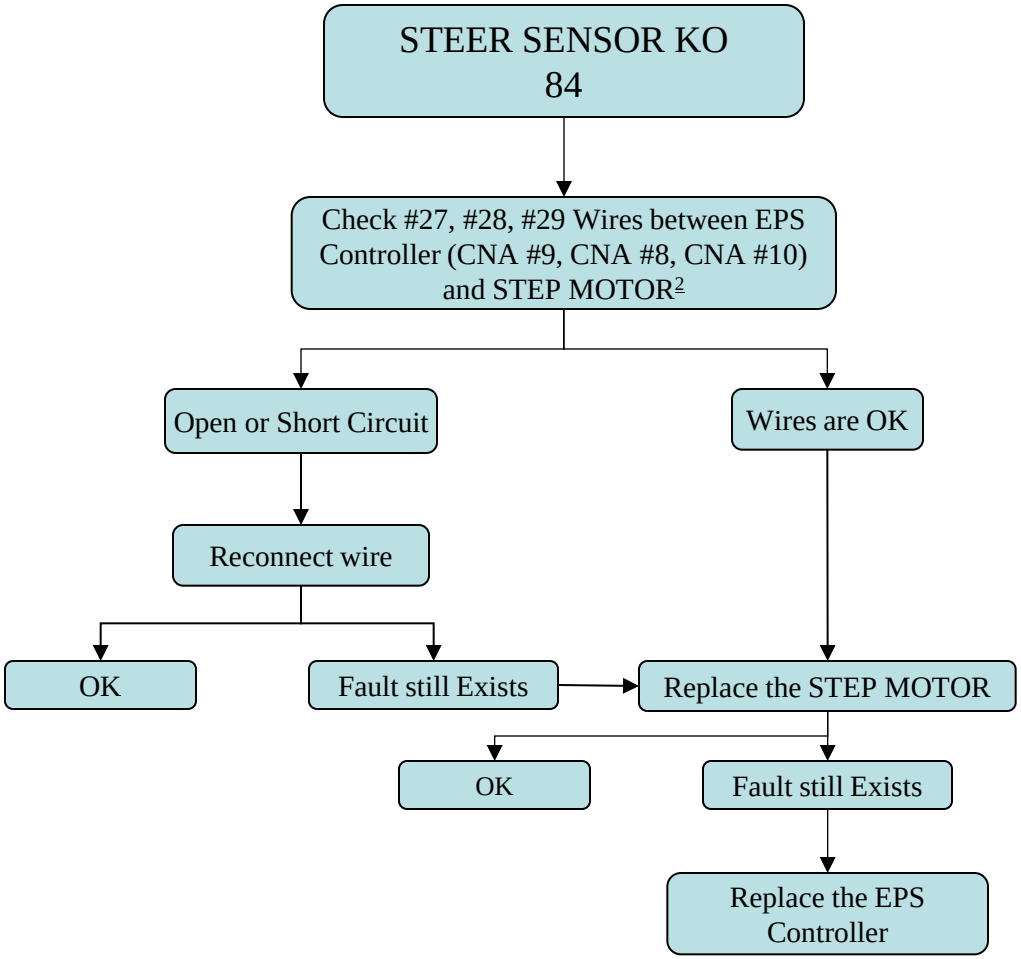
https://truckmanualshub.com/

ALARM #83 on NODE #6 BAD ENCODER SIGN



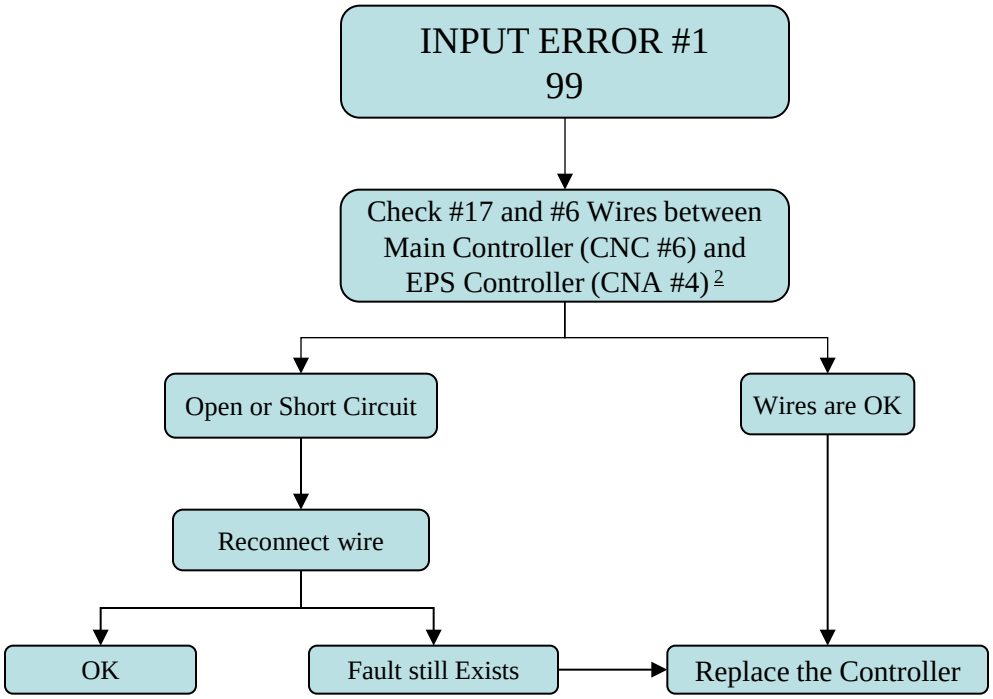
https://truckmanualshub.com/

ALARM #84 on NODE #6 STEER SENSOR KO



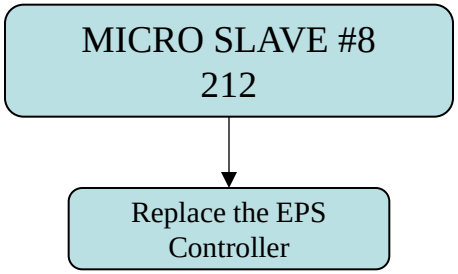
https://truckmanualshub.com/

ALARM #99 on NODE #6 INPUT ERROR #1



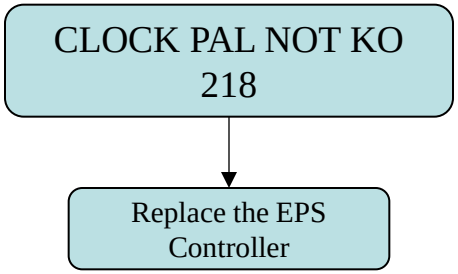
https://truckmanualshub.com/

ALARM #212 on NODE #6 MICRO SLAVE #8



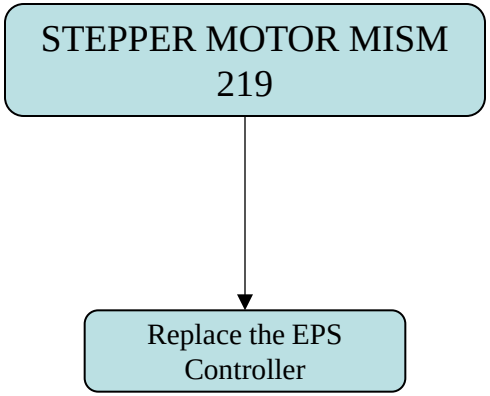
https://truckmanualshub.com/

ALARM #218 on NODE #6 CLOCK PAL NOT KO



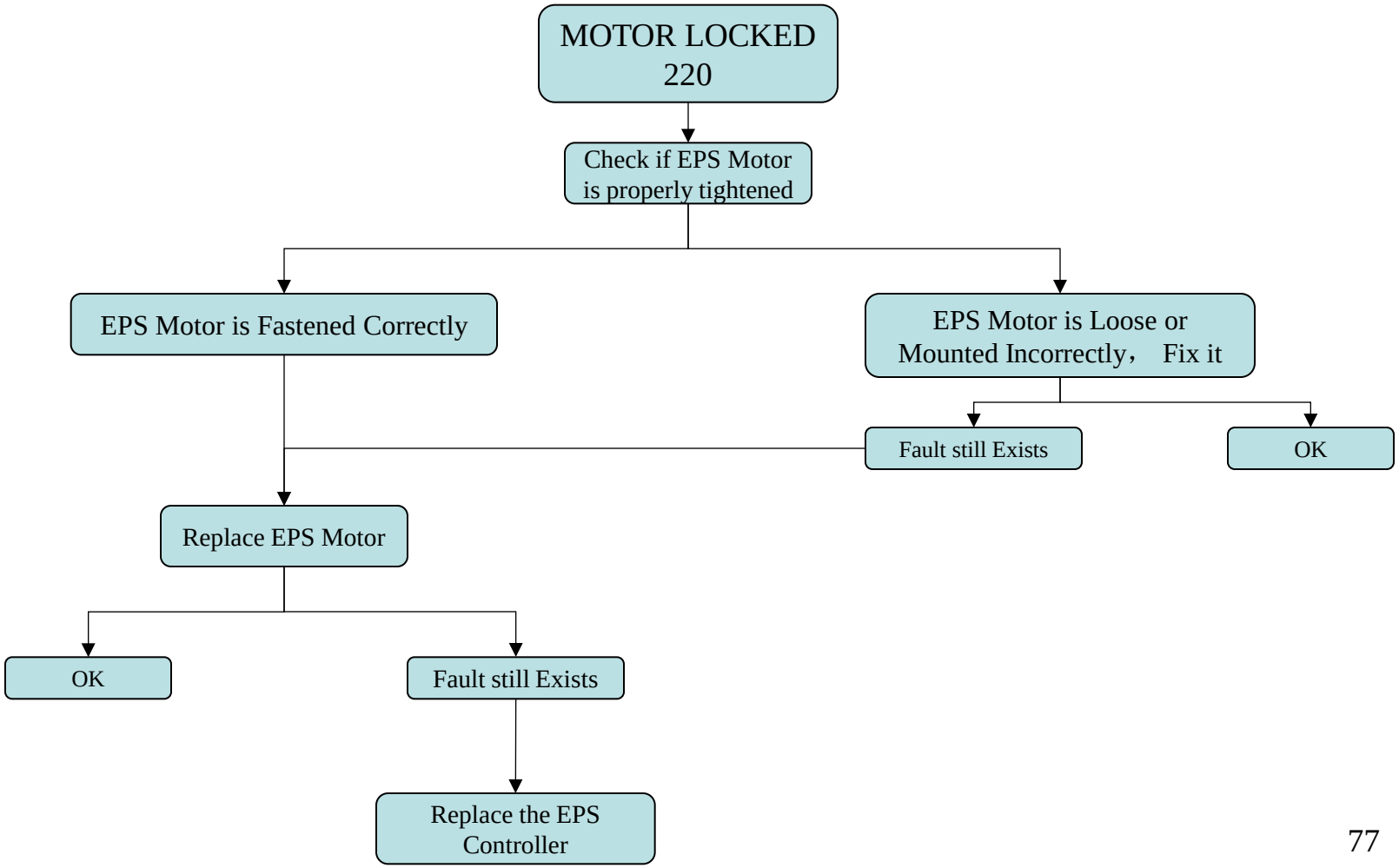
https://truckmanualshub.com/

ALARM #219 on NODE #6 STEPPER MOTOR MISM



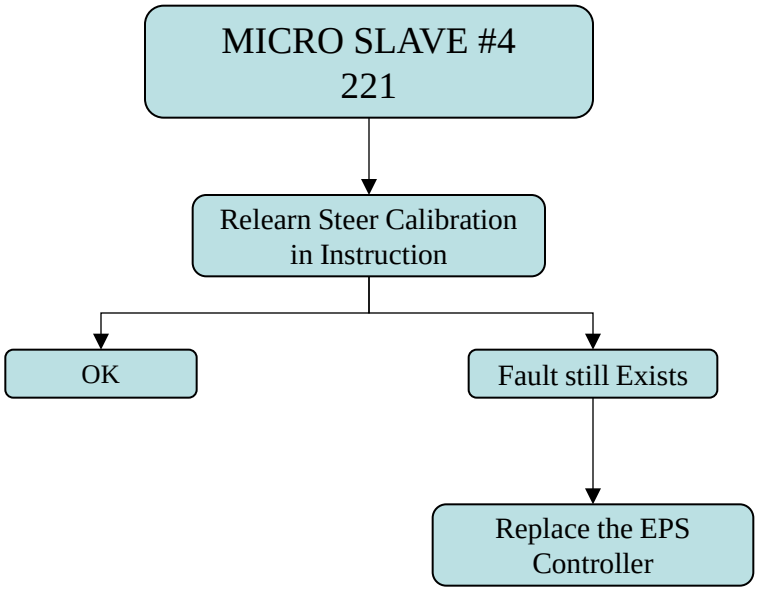
https://truckmanualshub.com/

ALARM #220 on NODE #6 MOTOR LOCKED



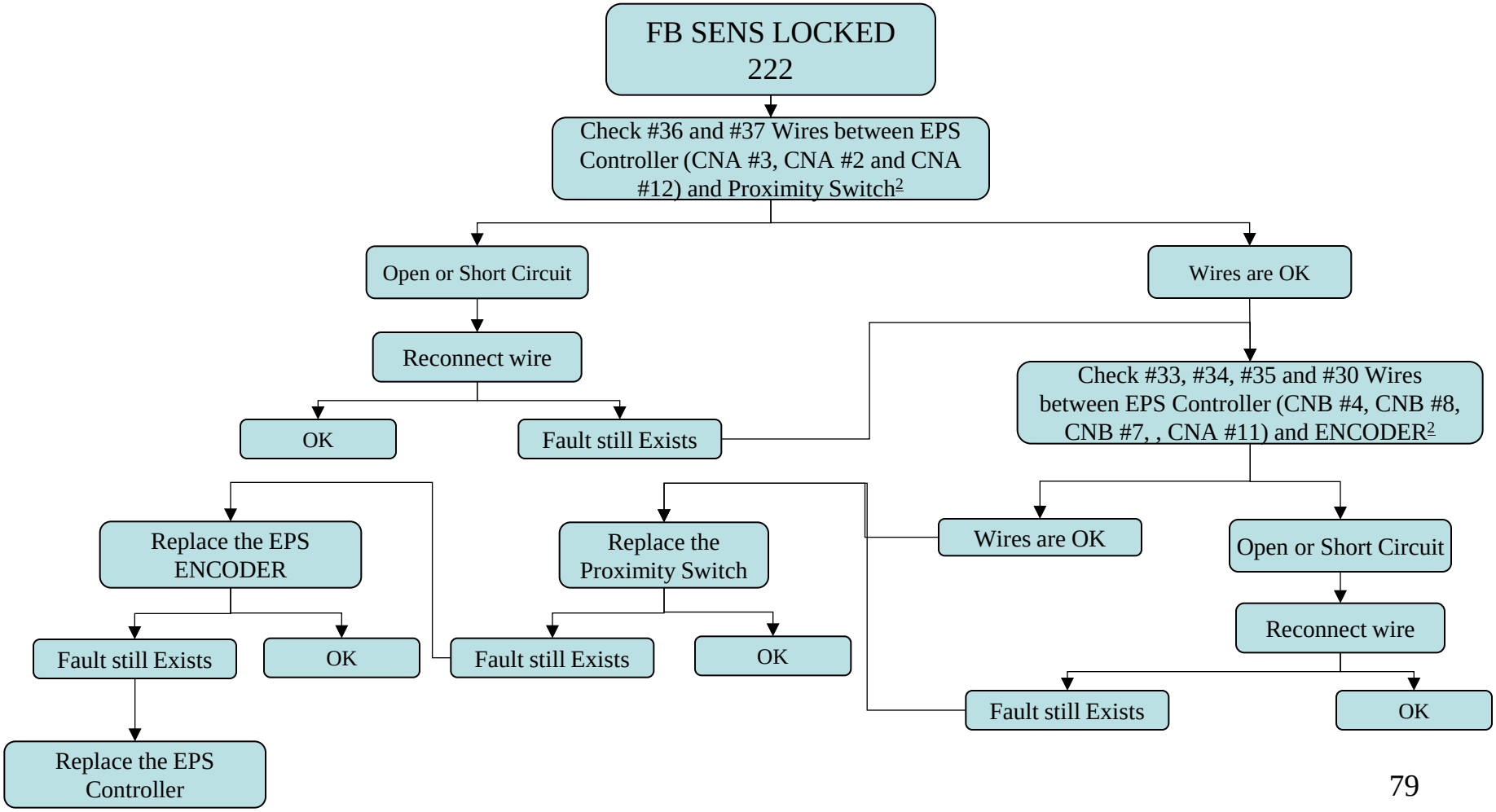
https://truckmanualshub.com/

ALARM #221 on NODE #6 MICRO SLAVE #4



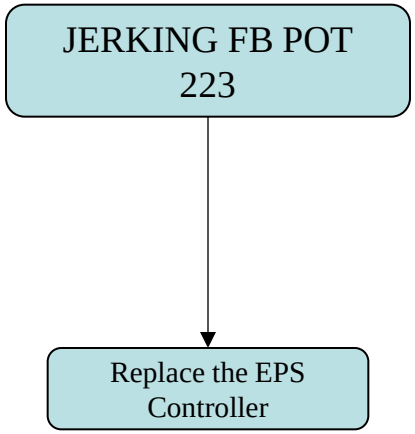
https://truckmanualshub.com/

ALARM #222 on NODE #6 FB SENS LOCKED



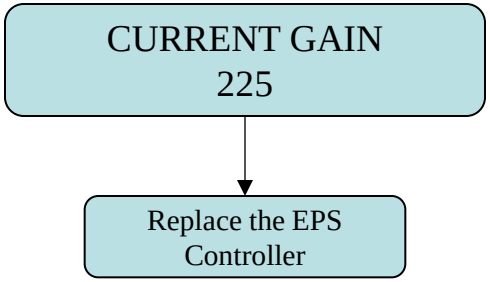
https://truckmanualshub.com/

ALARM #223 on NODE #6 JERKING FB POT



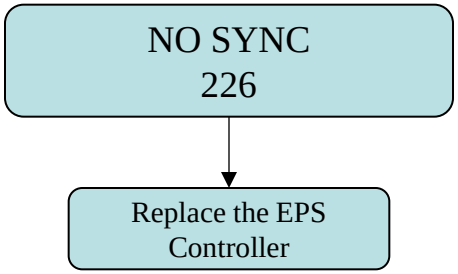
https://truckmanualshub.com/

ALARM #225 on NODE #6 CURRENT GAIN



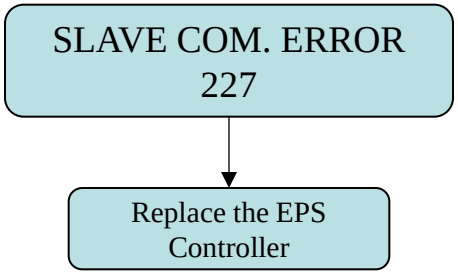
https://truckmanualshub.com/

ALARM #226 on NODE #6 NO SYNC

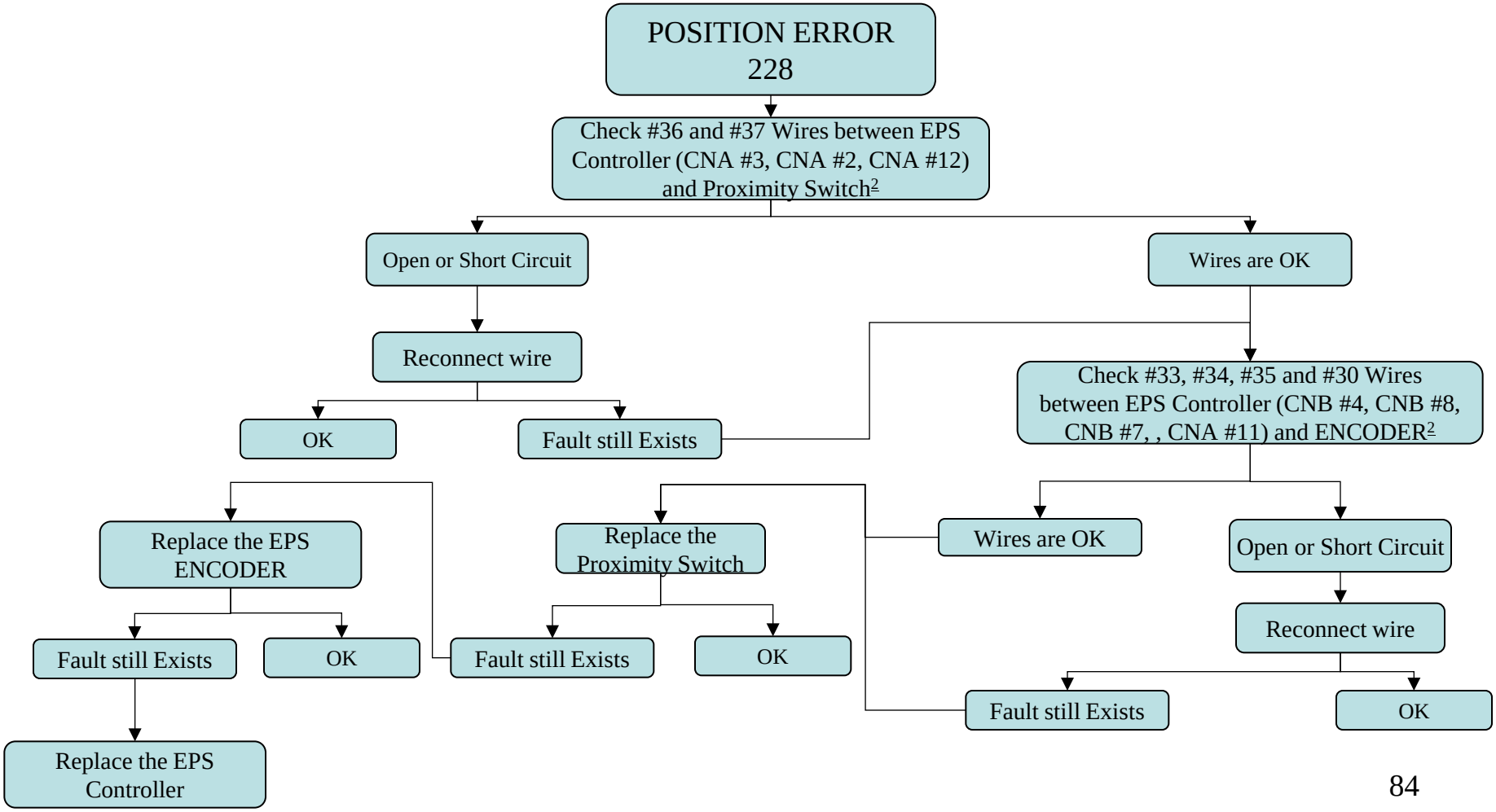


https://truckmanualshub.com/

ALARM #227 on NODE #6 SLAVE COM. ERROR

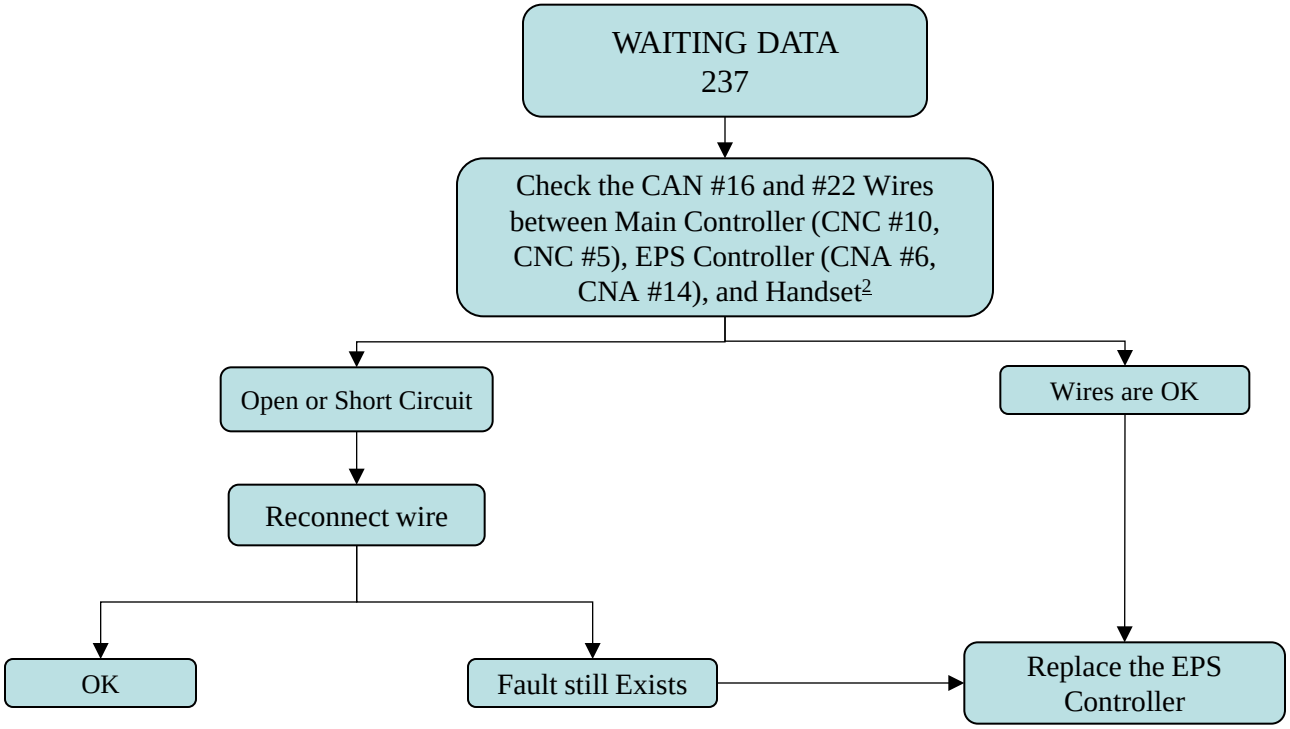


ALARM #228 on NODE #6 POSITION ERROR



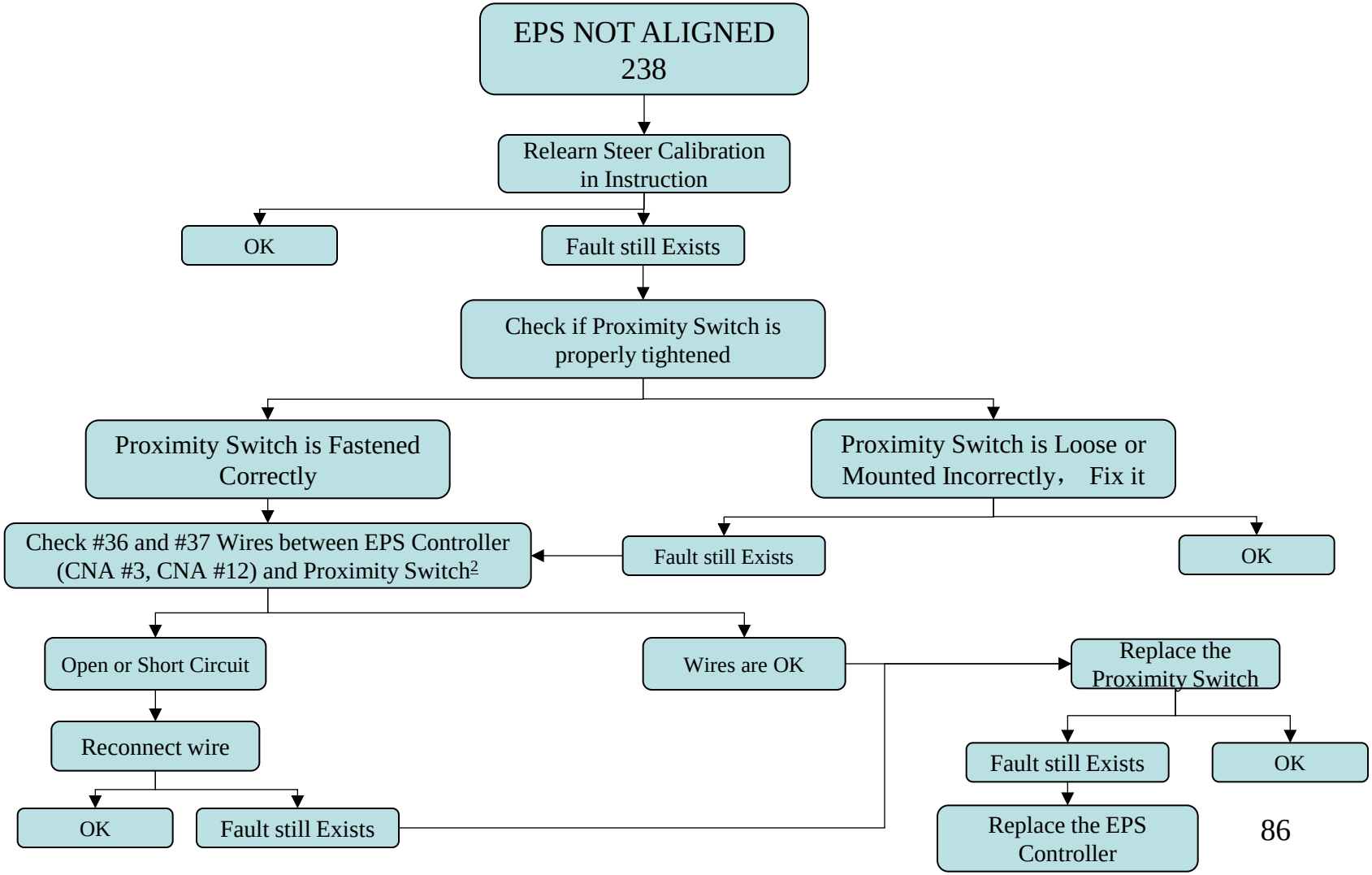
https://truckmanualshub.com/

ALARM #237 on NODE #6 WAITING DATA



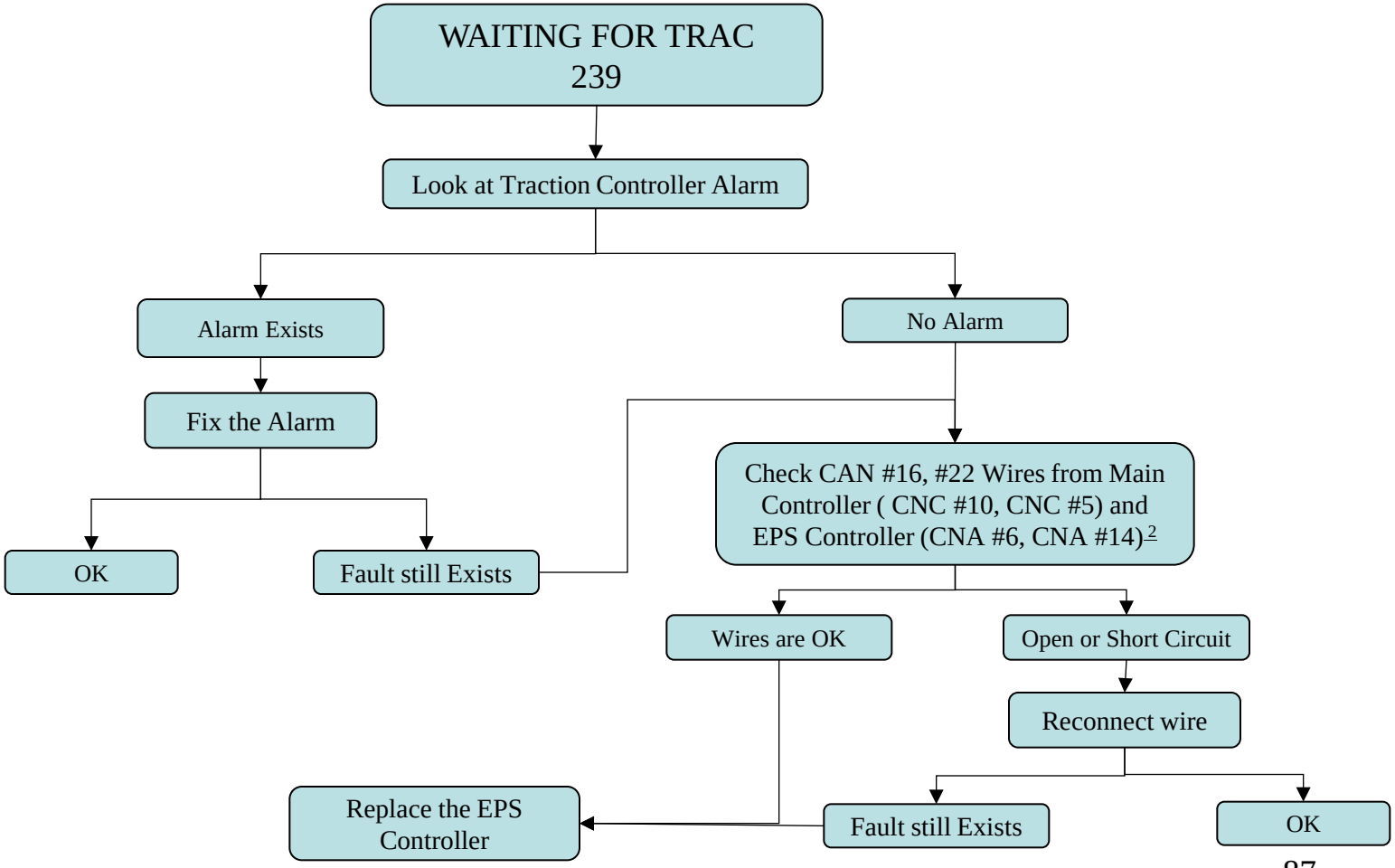
https://truckmanualshub.com/

ALARM #238 on NODE #6 EPS NOT ALIGNED



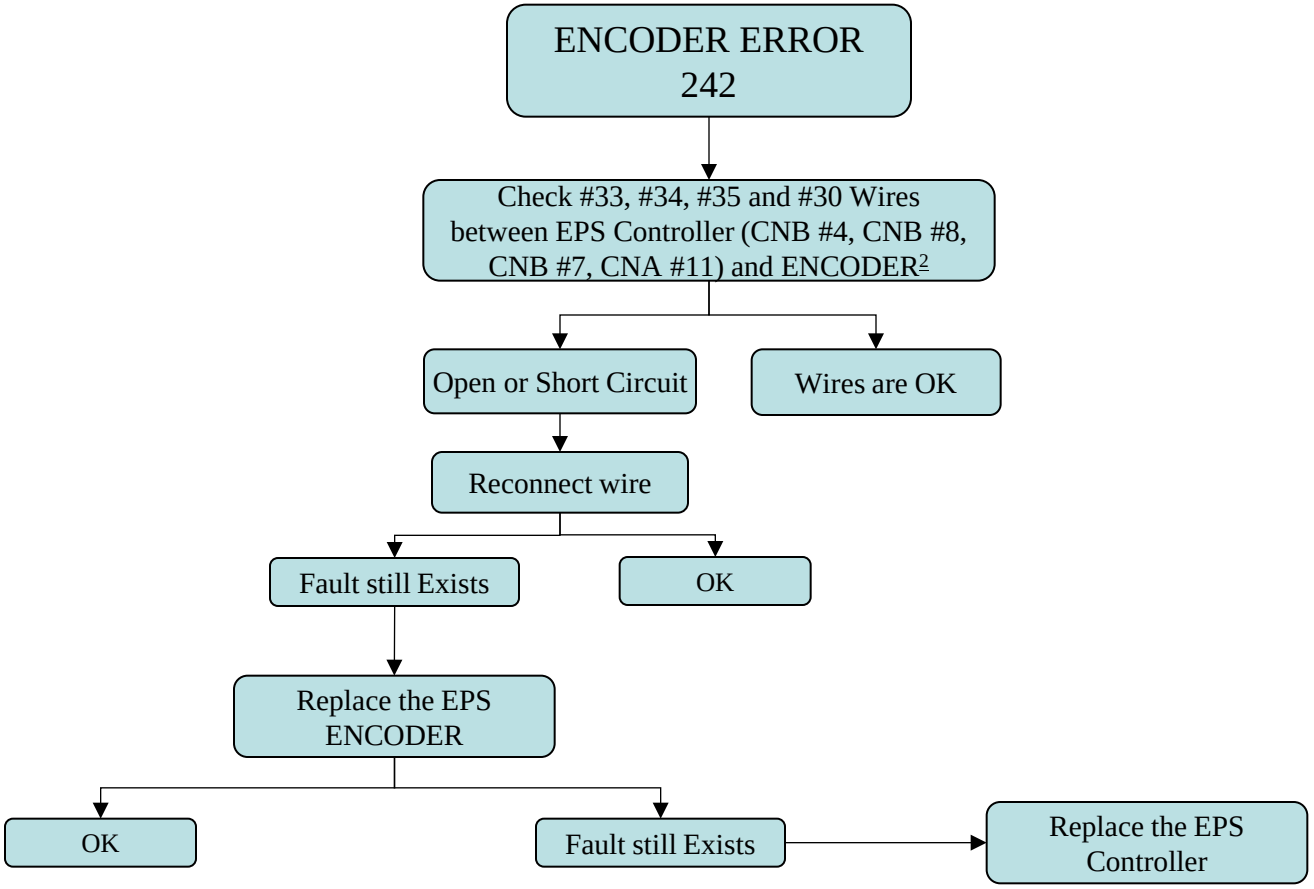
https://truckmanualshub.com/

ALARM #239 on NODE #6 WAITING FOR TRAC



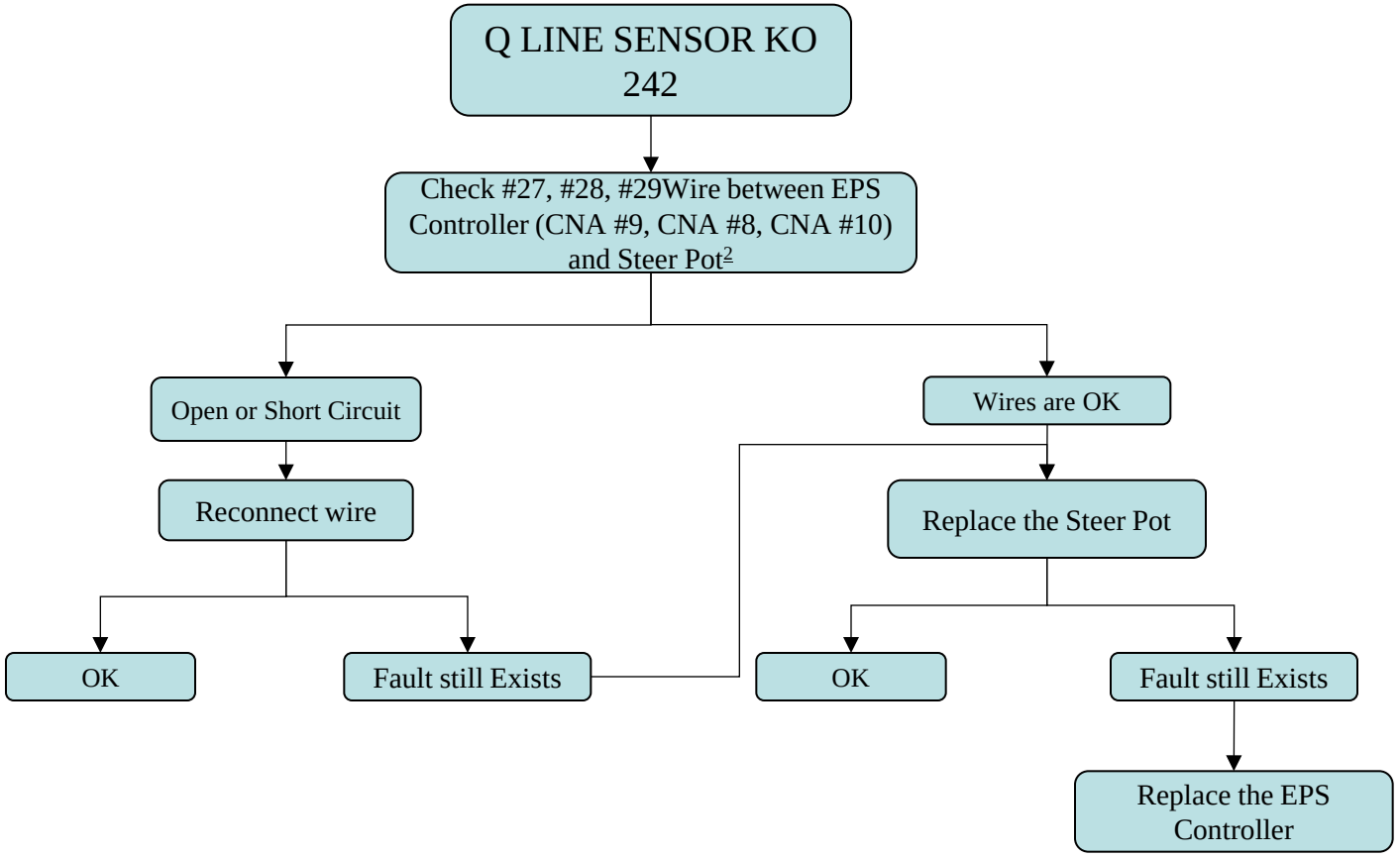
https://truckmanualshub.com/

ALARM #241 on NODE #6 ENCODER ERROR



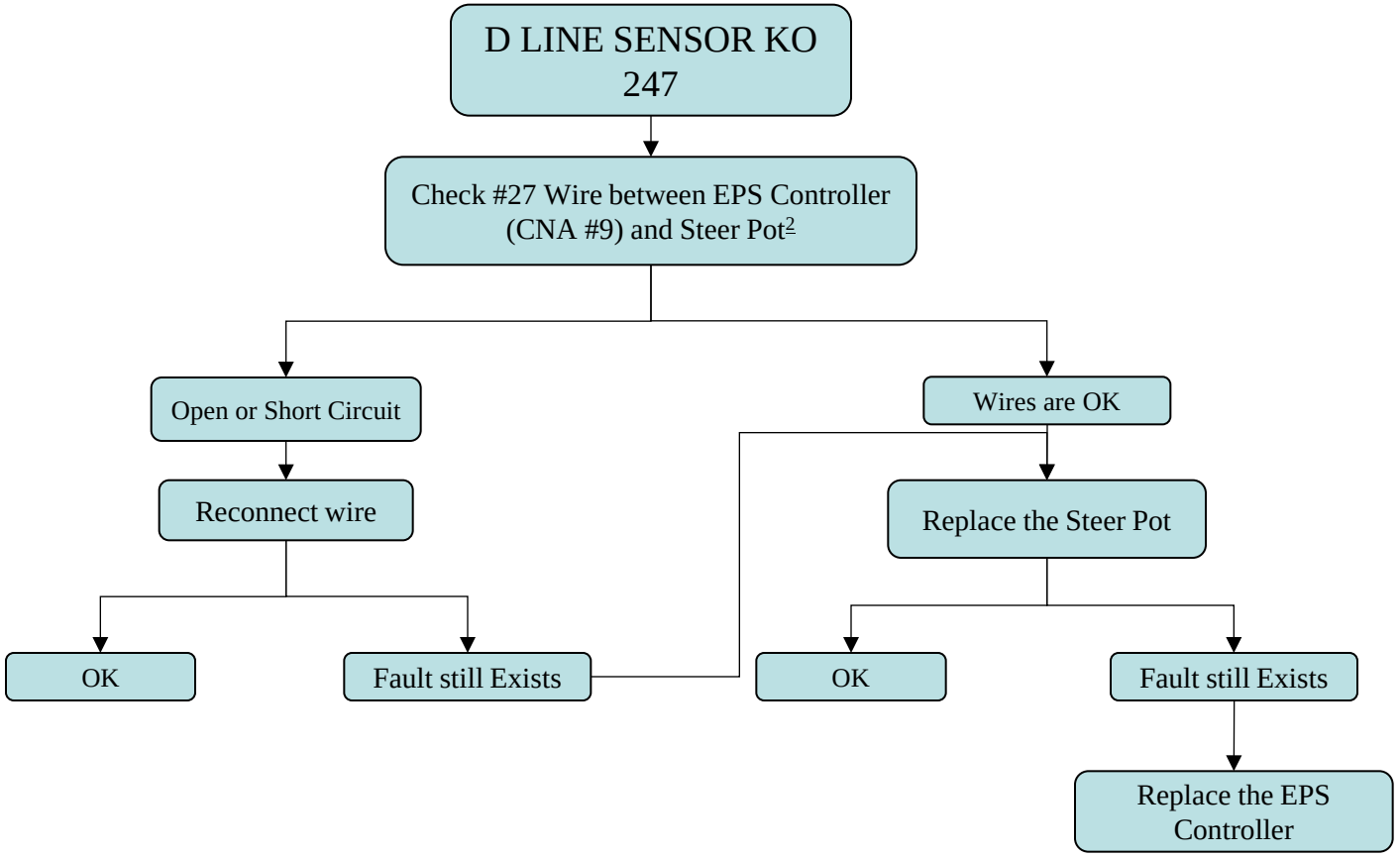
https://truckmanualshub.com/

ALARM #242 on NODE #6 Q LINE SENSOR KO



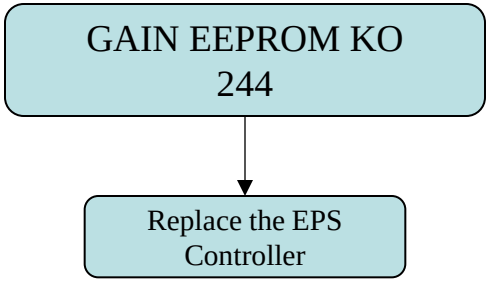
https://truckmanualshub.com/

ALARM #243 on NODE #6 D LINE SENSOR KO



https://truckmanualshub.com/

ALARM #244 on NODE #6 GAIN EEPROM KO



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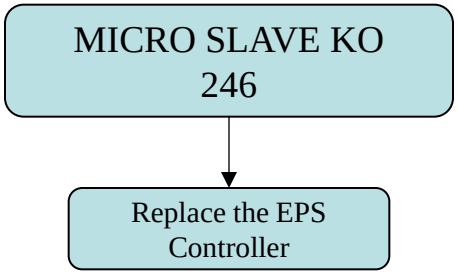
ALARM #246 on NODE #6 MICRO SLAVE KO



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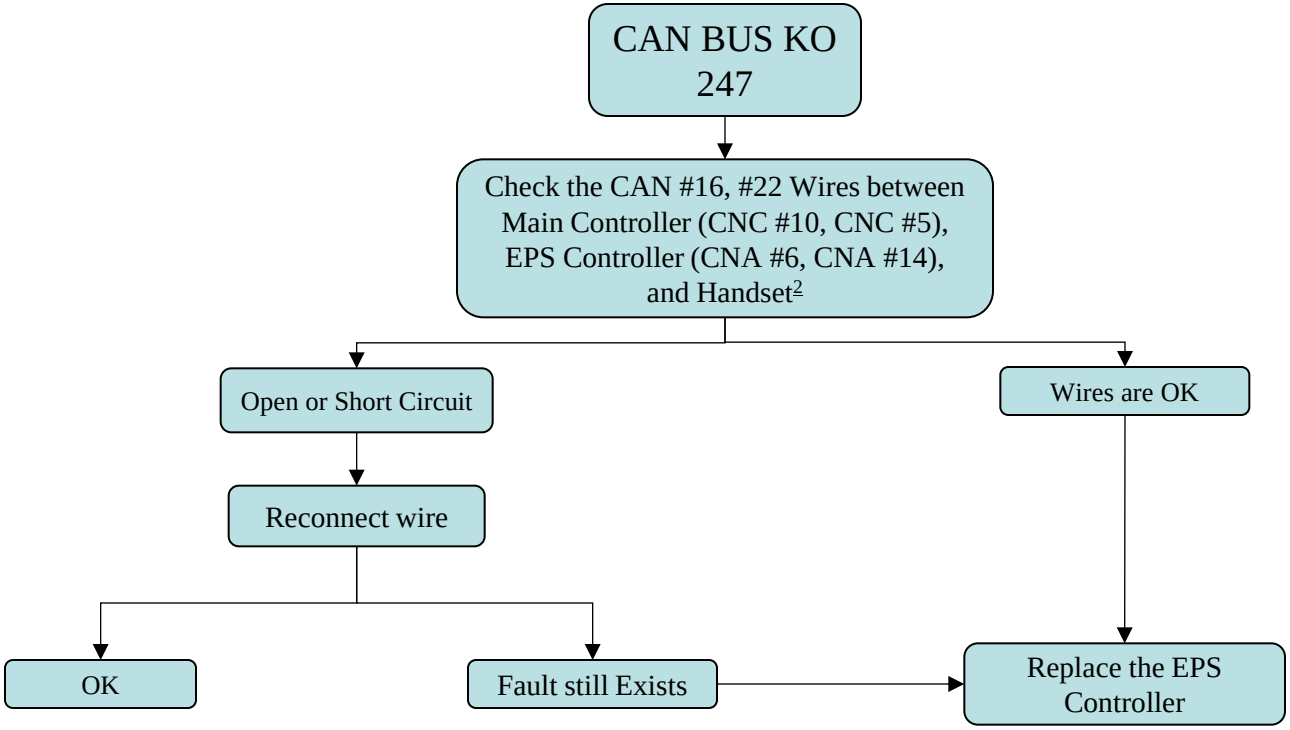
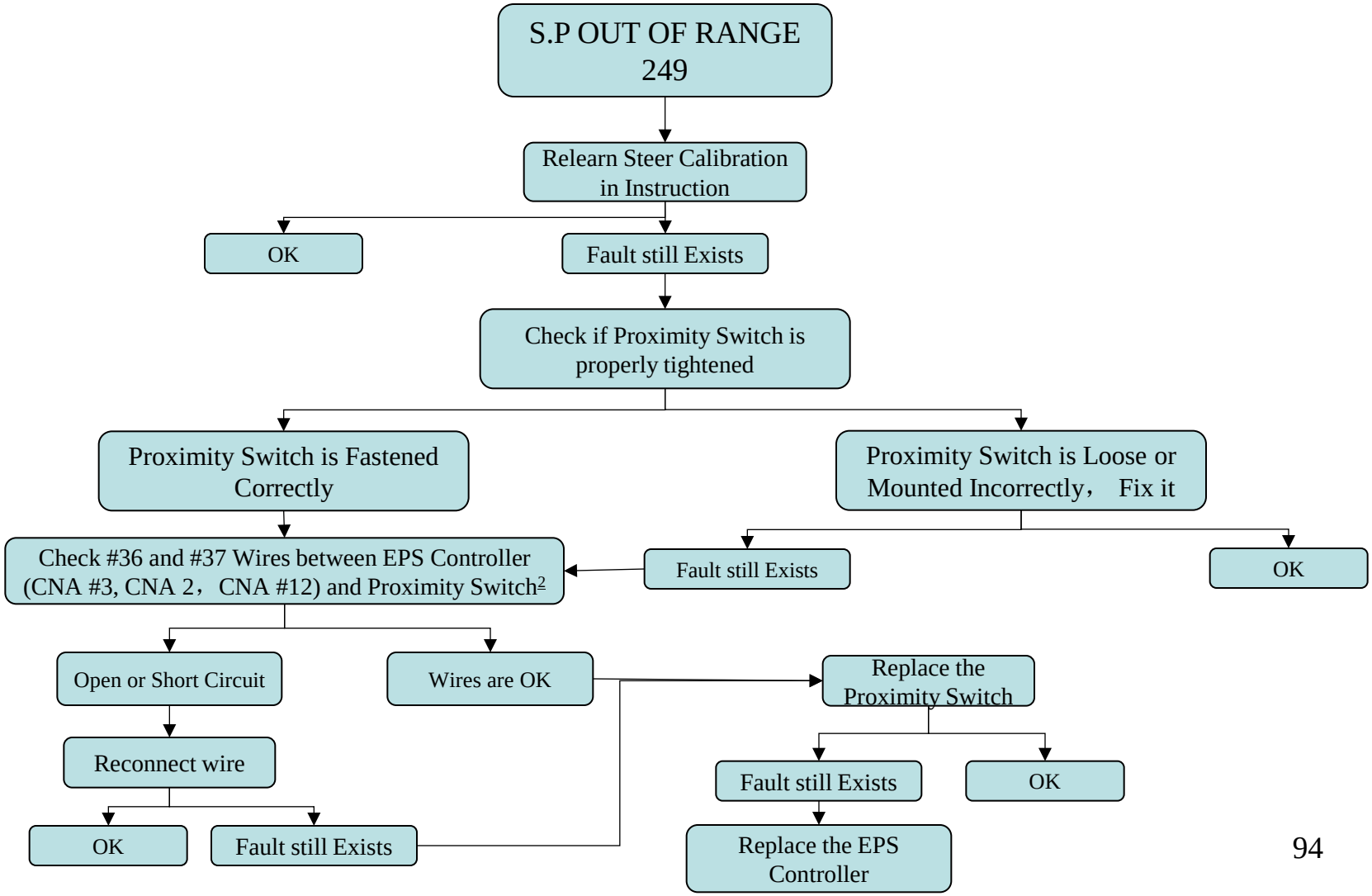
ALARM #247 on NODE #6 CAN BUS KO



https://truckmanualshub.com/

ALARM #248 on NODE #6 S.P OUT OF RANGE



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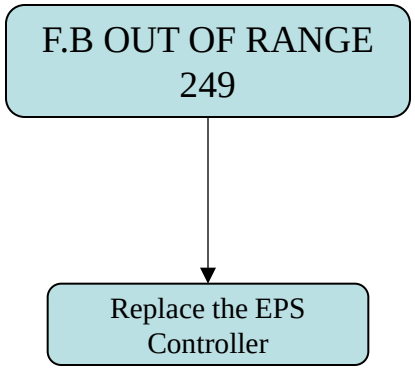
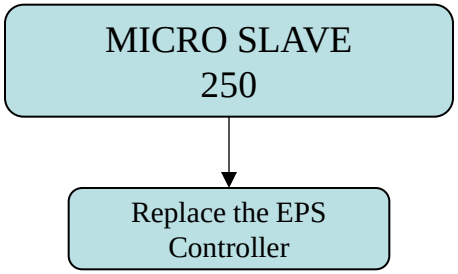
ALARM #249 on NODE #6 F.B OUT OF RANGE



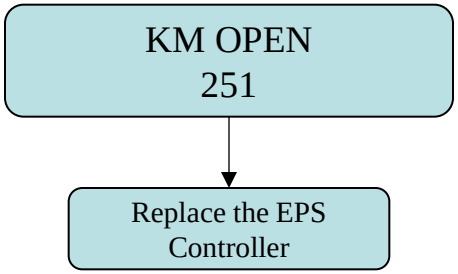
https://truckmanualshub.com/

ALARM #250 on NODE #6 MICRO SLAVE



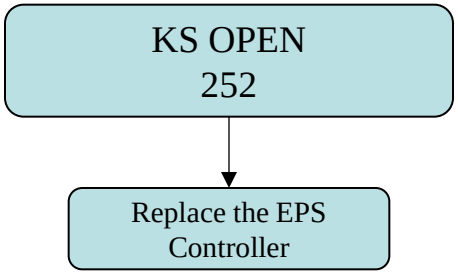
https://truckmanualshub.com/

ALARM #251 on NODE #6 KM OPEN



https://truckmanualshub.com/

ALARM #252 on NODE #6 KS OPEN



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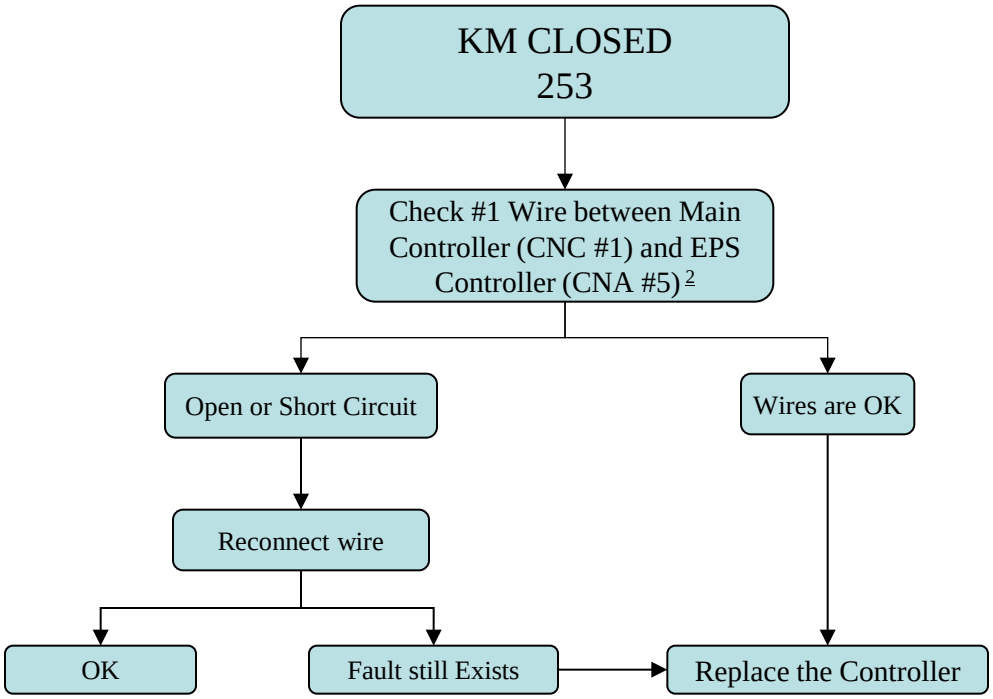
ALARM #253 on NODE #6 KM CLOSED



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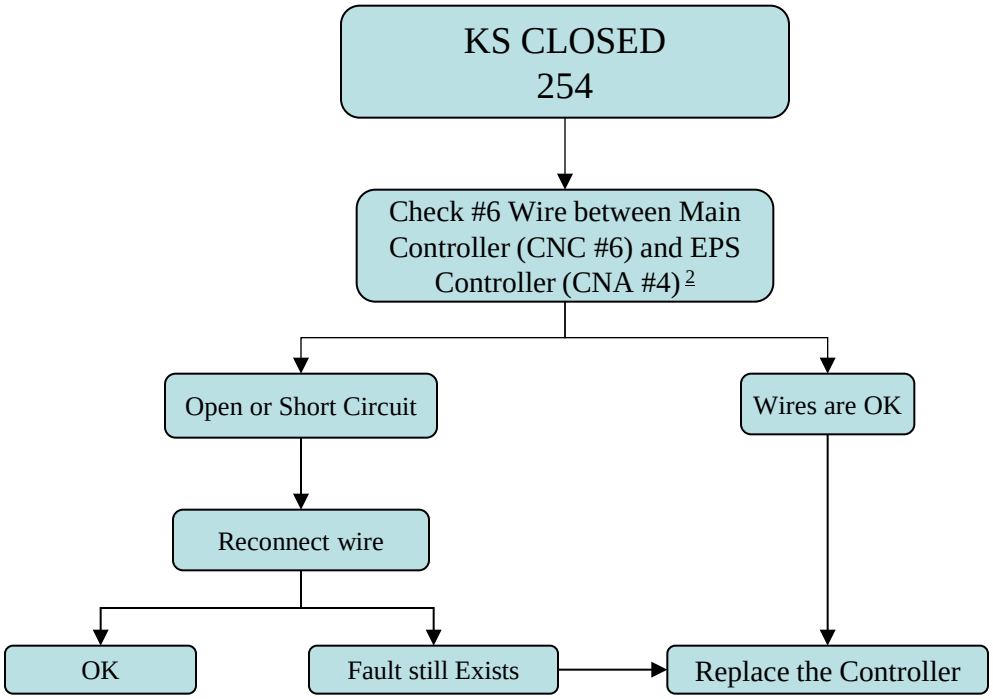
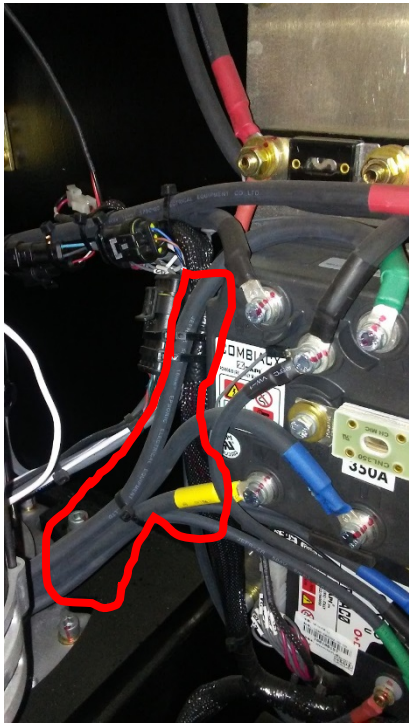
ALARM #254 on NODE #6 KS CLOSED

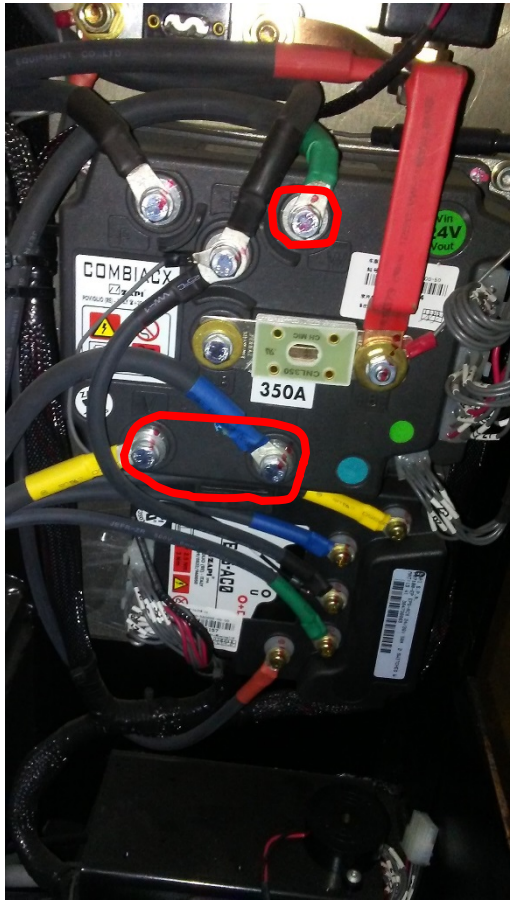


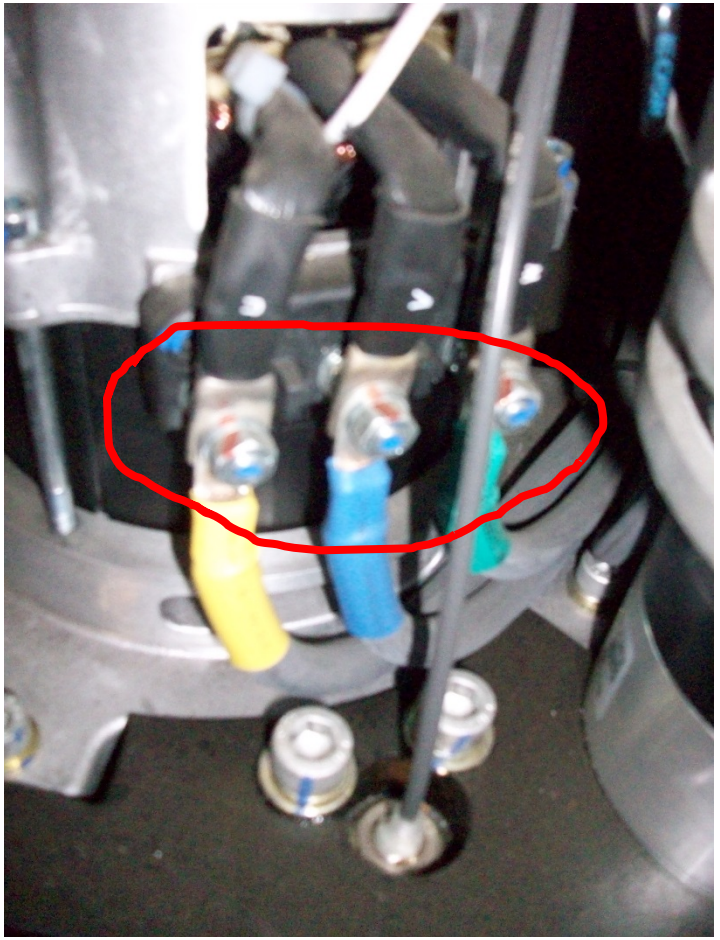
Appendix A

1. Check if cables are opened or shorted. A shorted cable means the cable jacketing is damaged and it is shorting to another cable or it is in contact with a metal object like the frame. An open cable means one of the inside metal wires are cut/damaged. If you are not sure, pleasure measure the resistance of the individual wire or cable. If the resistance is more than 1 ohm, it is open.

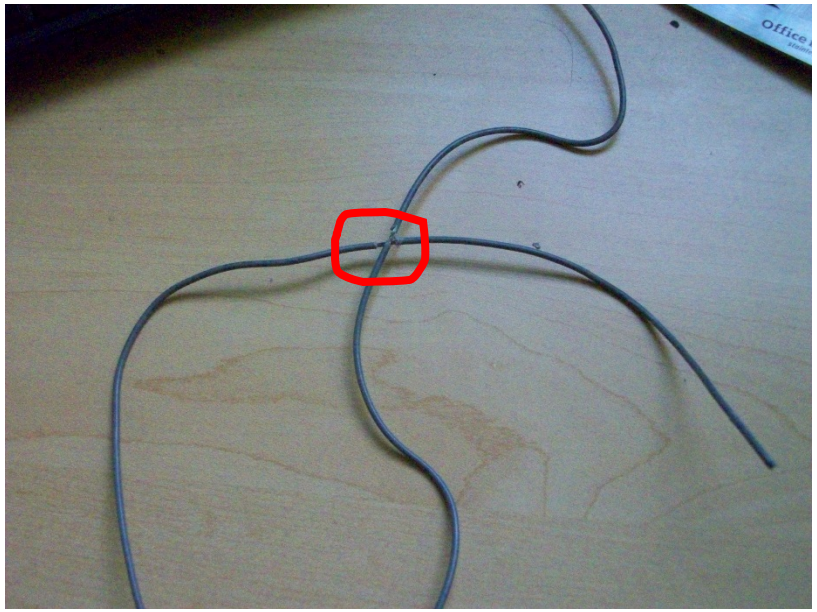


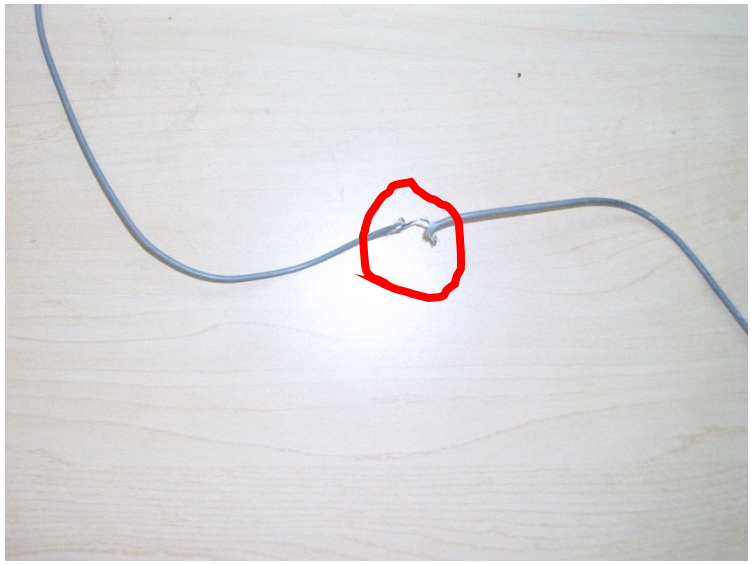
Check the connection points of the motor cables, and controller cables. Check the cable terminals for burn marks. Check if hardware is loose or burned. Ensure connections re tightened properly.



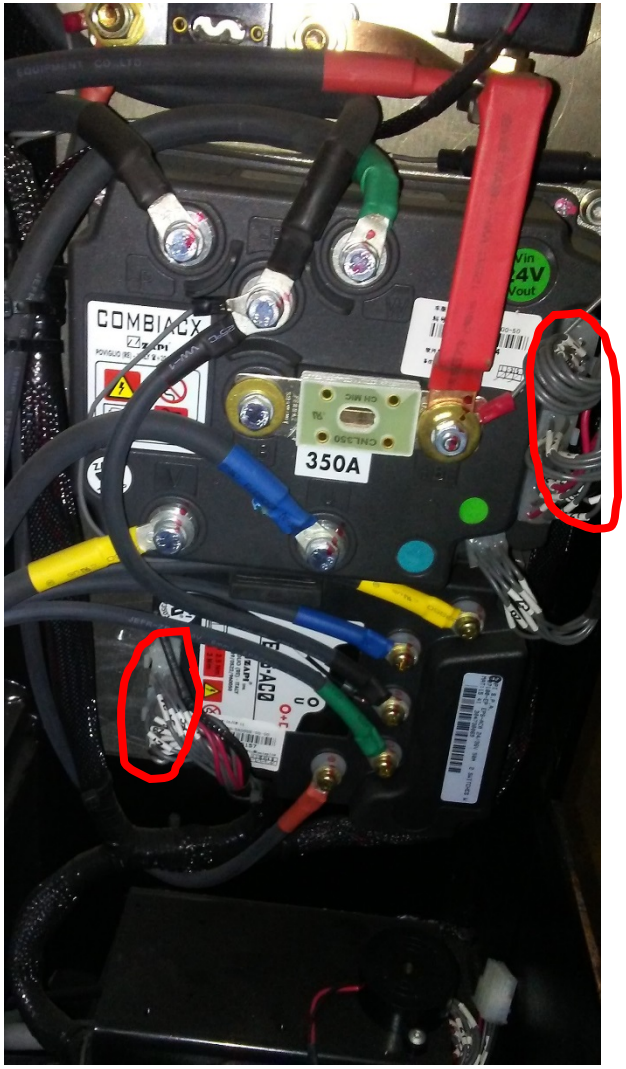


2. Check if cables are opened or shorted. A shorted cable means the cable jacketing is damaged and it is shorting to another cable or it is in contact with a metal object like the frame. An open cable means one of the inside metal wires are cut/damaged. If you are not sure, pleasure measure the resistance of the individual wire or cable. If the resistance is more than 1 ohm, it is open.





Check the connectors and pins on the Controller. Ensure connector locks are not damaged and no pins are broken or pushed out of the connector. Ensure no wires at pin terminations are cut/damaged



Check the connections between Controller wires and switches/sensors. Ensure wires are not cut or damaged.

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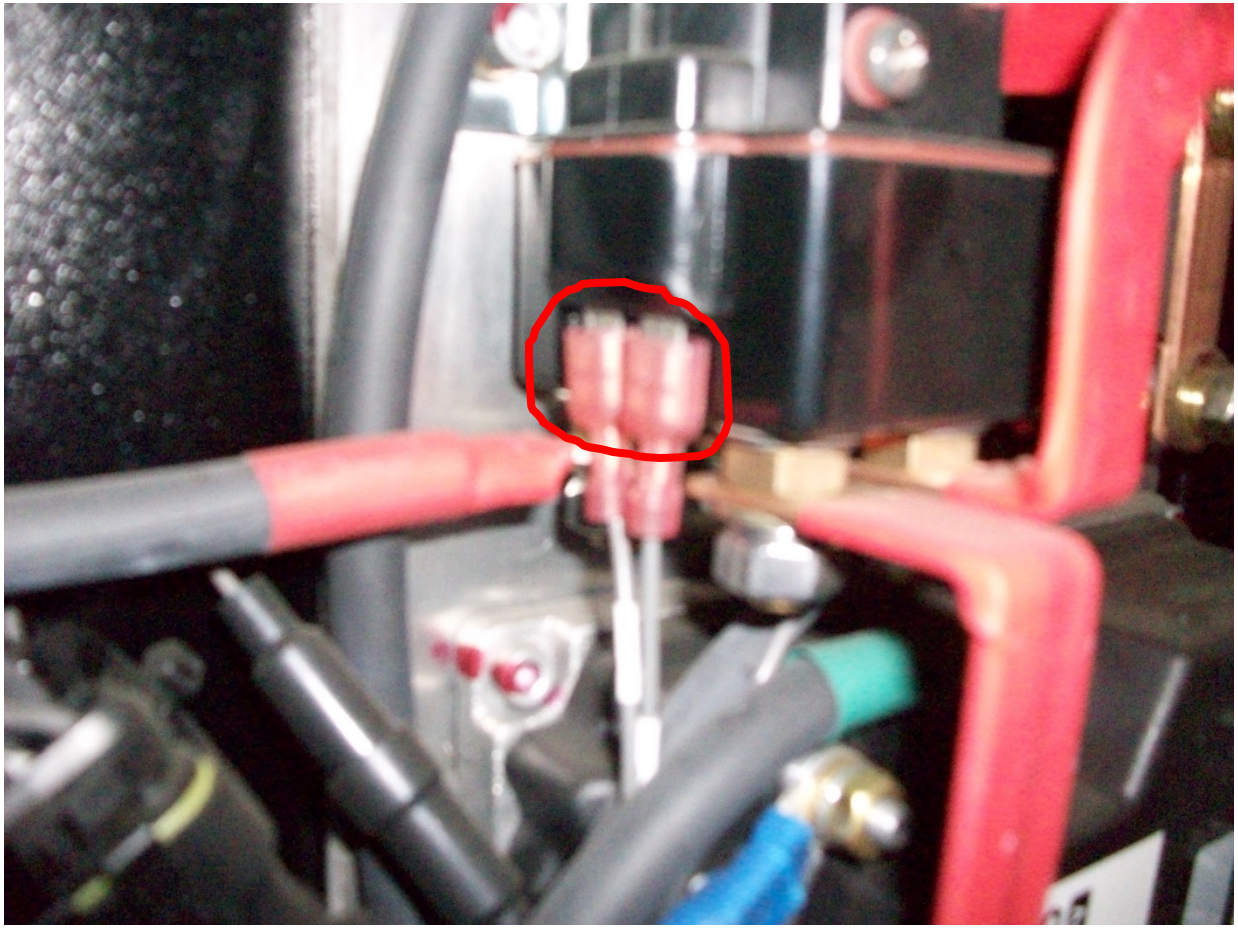
Check if connectors are loose or burned (such as the 2 pin connectors on the Main Contact). Ensure the parts are properly tightened.



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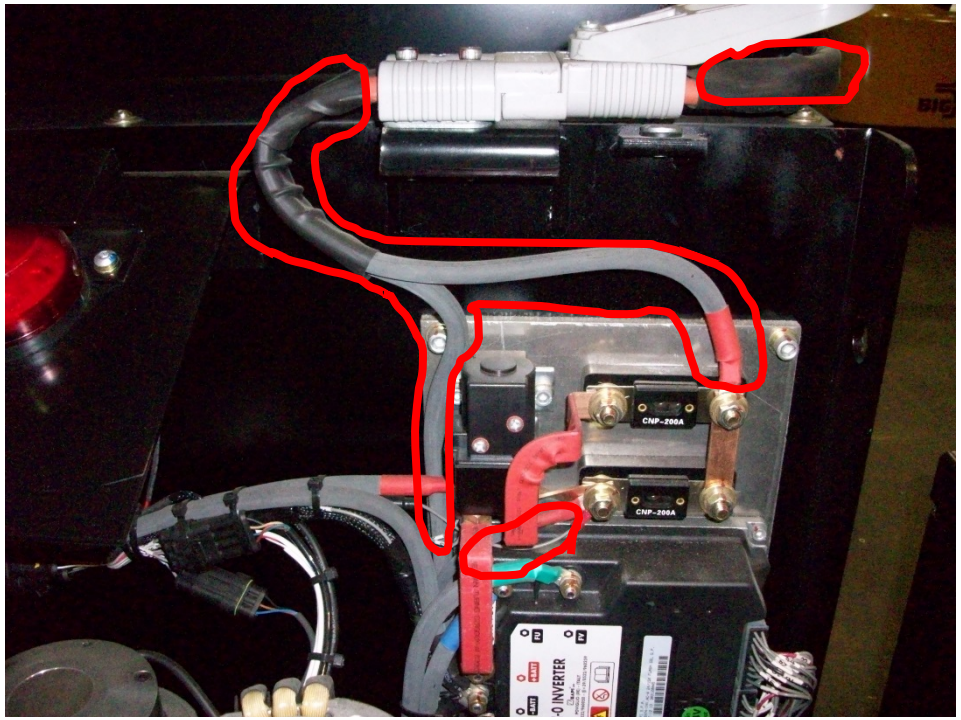

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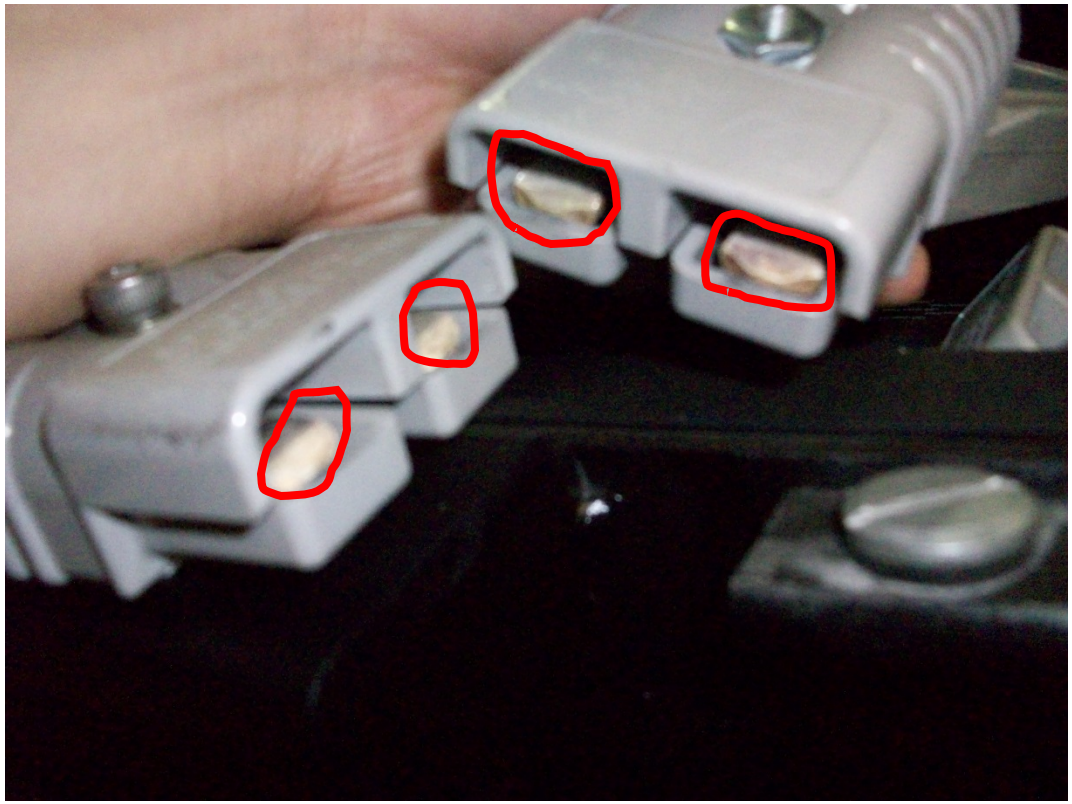
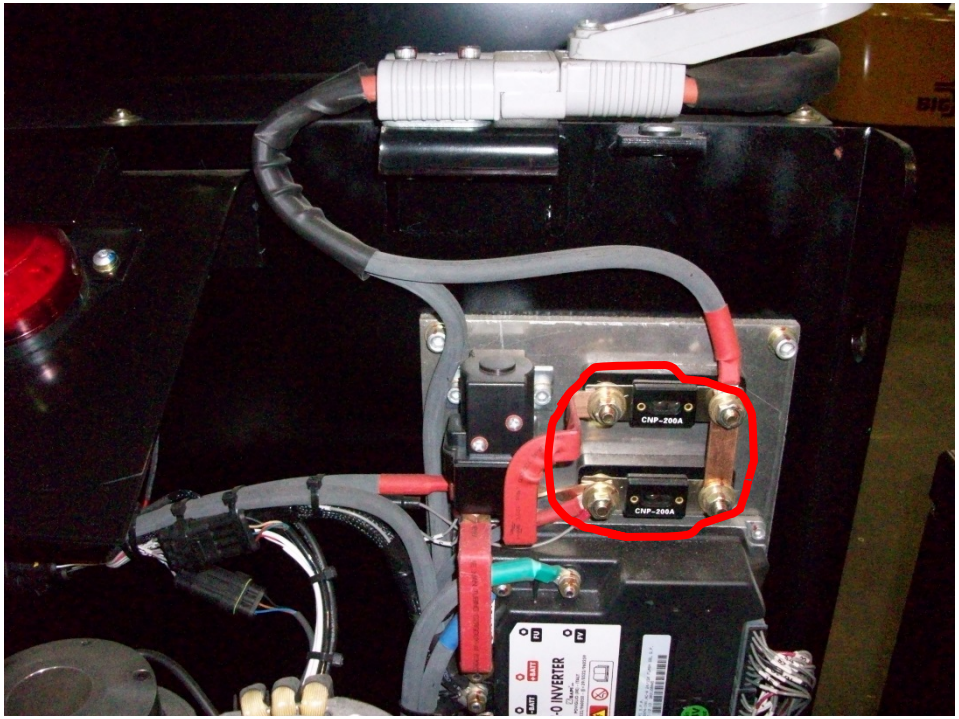
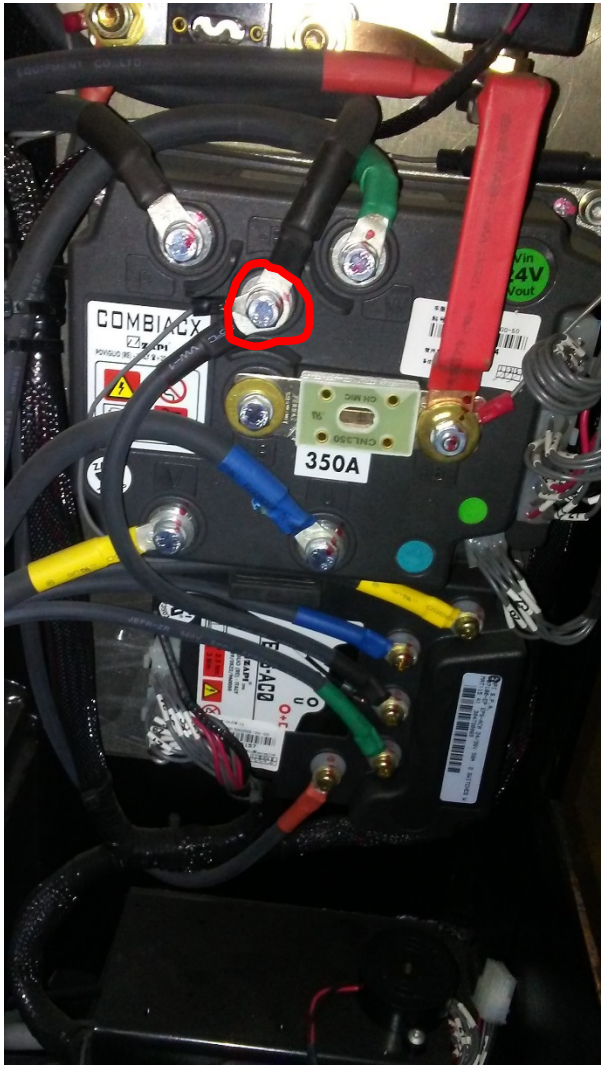
Check the Connectors between Battery and truck to see if they fit loose or are burned (Concentrate on the inside of the connector). If they do not fit correctly, replace cable lugs and/or connector housing to correct the issue.



Check if the fuses are blown out or not.



4. Check the voltage from the wire you want to check to the Controller negative (red circled).



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5. Open the battery case.

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Check the no load battery voltage for every battery.

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- Check the load voltage when the truck is lifting empty.

- Then check the load voltage when the truck is lifting with a load (red circled points, load should be no more than 1000 pound). If the no load voltage less than 24V, or the voltage difference between the empty lifting and loaded lifting is more than 5V. Please replace battery.