



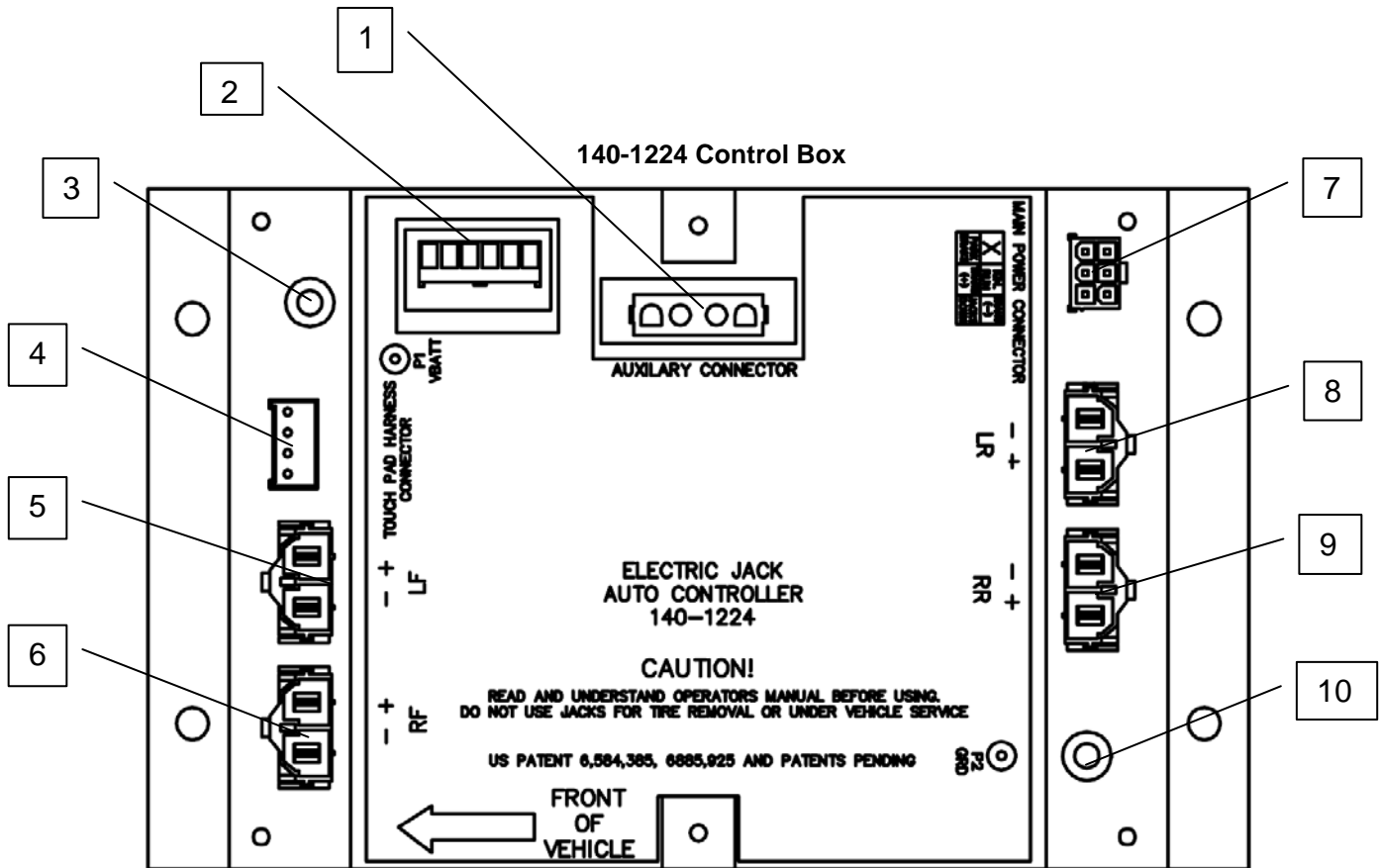
Trouble Shooting Leveling Control Box 140-1224 Electric Jacks

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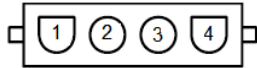
#82-L0524, Rev. OA

Touch Pad LED	Probable Cause	Solution
1. On/Off LED will not light	Ignition Key Turned Off	Turn on ignition key
	On/Off button not pressed on touch pad	Press on/off button on touch pad. NOTE: touch pad turns off after 4 minutes of inactivity.
	No +12 VDC on pin 5 of main power connector at control box	Repair wire or replace fuse, restore +12 VDC to pin 5 of main power connector. See wiring diagram
	No ground signal on control box ground lug	Check for ground on main ground lug at control box.
	No power on pin 3 of touch pad harness	Check control box output on pin 3 of touch pad connector. See wiring diagram. Inspect wire and connection at control box.
	No ground on pin 4 of touch pad harness	Check control box output on pin 4 of touch pad connector. See wiring diagram. Inspect wire and connection at control box.
2. Wait LED is Flashing	Jacks are extending or retracting in auto mode , control is busy	The control box is in the process of extending or retracting leveling jacks. Filling or dumping coach air bags.
3. On/Off LED and Wait LED are flashing together	No neutral signal detected at leveling control box	Check pin 2 and pin 6 on main power connector. See wiring diagram or document 82-E0029 at www.lci1.com for correct input signals to control box.
4. Jacks Down LED is lit	Control box senses one or more jacks extended	Retract jacks, check jack limit switch sensors on jacks. See wiring diagram and use TIP sheet 11001 at www.lci1.com .
5. Low Voltage LED is lit	Control box sensing low voltage	Check for at least 12VDC between pin 5 of the main power connector and control box ground lug. Check for at least 12 VDC between control box power lug and control box ground lug. See wiring diagram. Restore +12 VDC / ground to control box.
6. On/Off LED is On and Park Brake LED is Flashing together	Control box not sensing park brake signal	Set parking brake. See wiring diagram or document 82-E0029 at www.lci1.com for correct input signals to control box.
7. Manual ,Auto, On/Off, and all 4 jack Directional LEDS flashing	Control boxes is in error mode, control box sensed low voltage during a leveling process	Start coach engine. Check power between control box power lug and control box ground lug for +12VDC. To reset the control box use document 3010002127 at www.lci1.com .
8. All touch pad LEDS are flashing	Control box does not have a auto level reference point set	Use TIP sheet 11002 for control box with a revision level of OG, use Tip sheet 11003 for control boxes with revision level OK.
9. All touch pad LEDS are flashing and alarm is sounding	Control box is emergency retract the jacks	Either the park brake or the neutral signal was removed from the control box at the main power connector while the jacks were extended. See wiring diagram or document 82-E0029 at www.lci1.com for correct input signals to control box.

Touch Pad LED	Probable Cause	Solution
10. Manual, Auto and Two Directional LEDS Flashing	Jack motor drawing higher than 15amps DC	Test jack motor per document 82-L0501 at www.lci1.com . NOTE: Jack motor normal operating amp draw is 4-8 amps DC.
	Jack motor brake defective	Inspect / Replace jack brake per document 3010001428 at www.lci1.com . NOTE: Jack motor normal operating amp draw is 4-8 amps DC.
	Jack motor harness is broken or shorted out	Inspect / test jack motor harness. Replace wiring harness. See wiring diagram.
	Jack limit switch sensor harness is broken or shorted out	Inspect / test jack limit switch harness. Replace wiring harness. See wiring diagram. Use TIP sheet 11001 at www.lci1.com .
	Jack limit switch harness plug into wrong jack	Verify that correct jack limit switch harness is plugged into correct jack. See wiring diagram.
	Jack motor harness plugged into the wrong port at control box	Verify that the correct jack motor harness is plugged into the correct control box port.
	Loose connection on jack motor harness	Verify that jack motor harness connections at jack assembly and control box are seated properly and making good contact. See Wiring diagram.
	Loose connection on jack limit switch sensor harness	Verify that jack limit switch sensor harness connections at jack assembly and control box are seated properly and making good contact. See Wiring diagram.

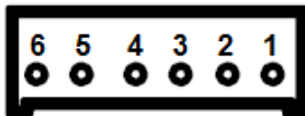


Item #1-Auxiliary Harness Connector



- Pin#1** Fill output to the airbag valve. Energized with +12vdc to fill airbags.
- Pin#2** Fill output to the airbag valve. Ground to fill airbags.
- Pin#3** Dump output to the airbag valve. Energized with +12vdc to dump airbags.
- Pin#4** Dump output to the airbag valve. Ground to dump airbags.

Item #2- Limit Switch Connector



- Pin#1** Output 12vdc to limit switches
- Pin#2** Input left front limit switch
- Pin#3** Input right front limit switch
- Pin#4** Input left rear limit switch
- Pin#5** Input right rear limit switch
- Pin#6** Output ground to limit switches

Item #3-V Battery Lug



Pin #1 Input +12vdc from battery

Item #4-Touch Pad Harness Connector



- Pin #1** Output to the touch pad. Transmit signal 5-7vdc.
- Pin #2** Input from the touchpad. Receive signal 5-7vdc.
- Pin #3** Power (+12vdc) output to the touch pad.
- Pin #4** Ground output to the touchpad.

Item #5-Left Front Jack Motor Connector



- Pin#1** Output to jack motor
- Pin#2** Output to jack motor

Note: Pin #1 and pin #2 change polarities depending on jack extending or retracting.

Item #6-Right Front Jack Motor Connector

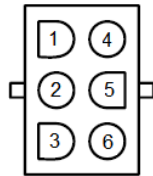
Pin#1 Output to jack motor
Pin#2 Output to jack motor

Note: Pin #1 and pin #2 change polarities depending on jack extending or retracting.

Item #8-Left Rear Jack Motor Connector

Pin#1 Output to jack motor
Pin#2 Output to jack motor

Note: Pin #1 and pin #2 change polarities depending on jack extending or retracting.

Item #7- Main Power Connector

- Pin#1** Input from park brake. Has continuity to ground when the park brake is engaged.
- Pin#2** Input from neutral safety switch. Can measure as either +12vdc or ground.
- Pin#3** Not used.
- Pin#4** Not used.
- Pin#5** Input from ignition. Energized with +12vdc when the coach is running.
- Pin#6** Input from neutral safety switch. Can measure as either +12vdc or ground.

Item #9-Right Rear Jack Motor Connector

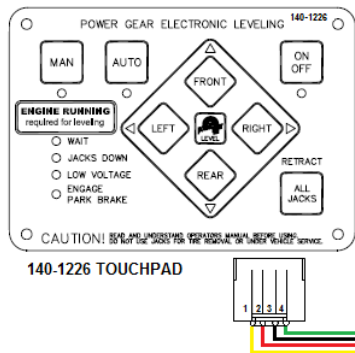
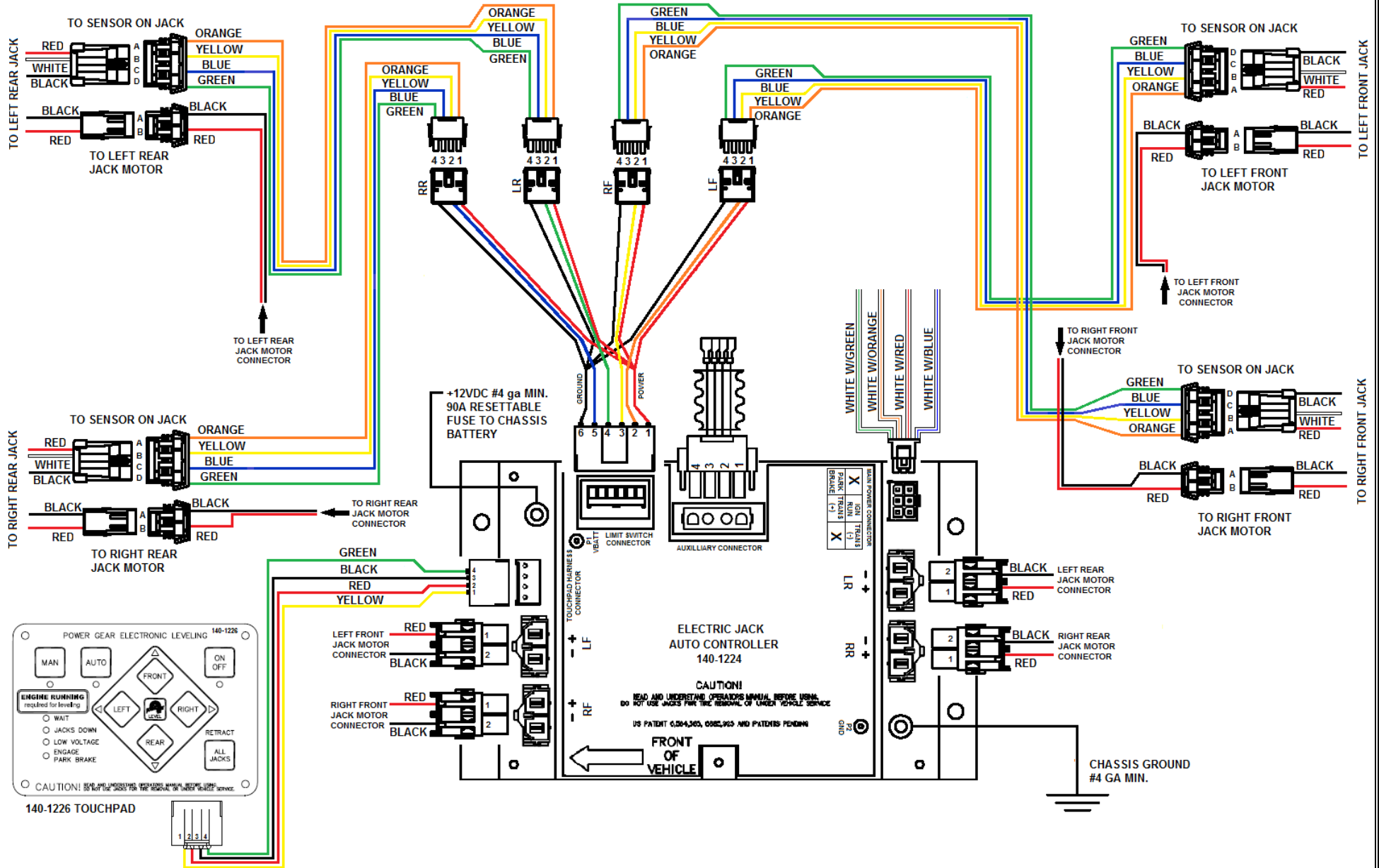
Pin#1 Output to jack motor
Pin#2 Output to jack motor

Note: Pin #1 and pin #2 change polarities depending on jack extending or retracting.

Item #10-Ground Lug

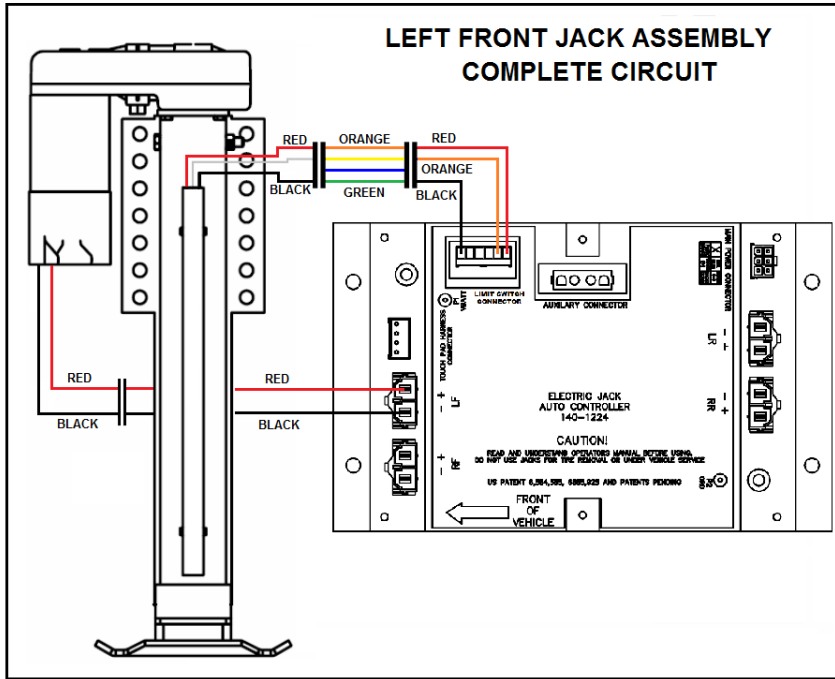
Pin #1 Input Ground from chassis

Wiring Diagram

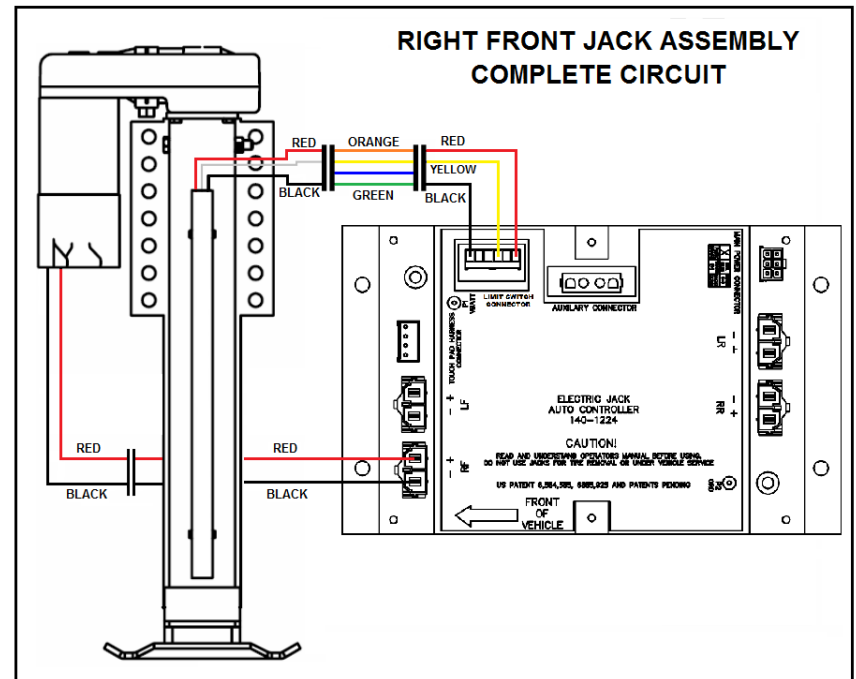


Wiring Diagram Continued

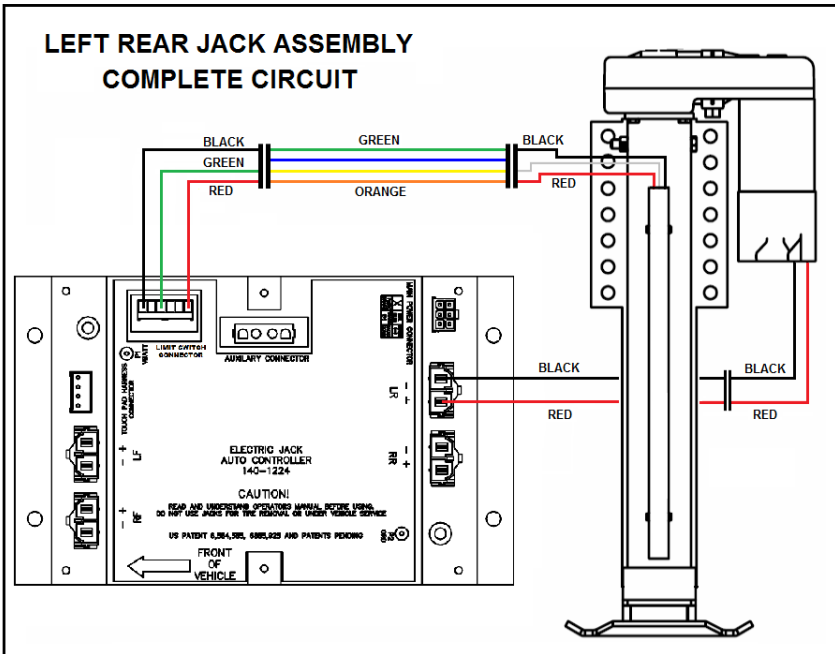
LEFT FRONT JACK ASSEMBLY COMPLETE CIRCUIT



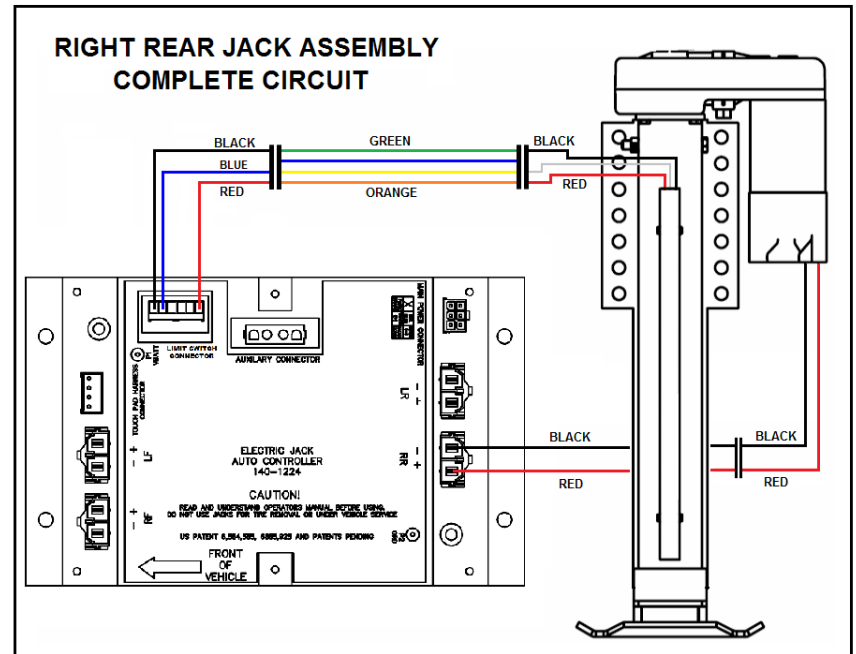
RIGHT FRONT JACK ASSEMBLY COMPLETE CIRCUIT



LEFT REAR JACK ASSEMBLY COMPLETE CIRCUIT



RIGHT REAR JACK ASSEMBLY COMPLETE CIRCUIT



Additional reference Publication located at
www.lci1.com

- 82-L0368 Operators manual for electric leveling control box 140-1224 rev OK
- 82-L0501 Testing the electric jack motor brake
- 11001 Electric leveling Sensor circuit function check
- 11002 Electric leveling installation and calibration of control box 140-1224 rev OG
- 11003 Electric leveling installation and calibration for control box 140-1224 rev OK
- 3010000914 Electric leveling calibration of control box 140-1224 rev OK
- 3010001163 Replacement of electric leveling jack motor
- 3010001428 Electric leveling motor brake kit replacement instructions
- 3010002127 Electric jack error mode resetting procedure
- 3010002134 Replacement of the electric leveling jack drive pin using pin kit 1010001889
- 3010002151 Low voltage indication for hydraulic and electric leveling controls