

## 691 Wire-By-Wire Troubleshooting

With the harness **unplugged** from the control module, check for the following at the harness sockets

Position	Color	Use	Check for
1	RED	12 VOLT POWER INPUT	+12 Vdc
2	BLACK	GROUND FOR PS2	Continuity with position 6 if system is pressurized at all, open if not.
3	GREEN	MOTOR GREEN	Motor - Connect ground here and +12 Vdc at position 4 to run pump to pressurize.*
4	BLUE	MOTOR BLUE	Motor - Connect ground here and +12 Vdc at position 3 to run pump to depressurize.*
5	WHITE	PS1 INPUT	Continuity with position 10 if system is fully pressurized, open if not.
6	VIOLET	PS2 INPUT	Continuity with position 2 if system is pressurized at all, open if not.
7	BROWN	EXT + INPUT	+12 Vdc if external controls/switches are calling for the 691 to be activated, open if not.
8	GRAY	EXT - INPUT	Ground if external controls/switches are calling for the 691 to be activated, open if not.
9			
10	BLACK	GROUND FOR PS1	Continuity with position 5 if system is fully pressurized, open if not.
11			
12			
13			
14	GREEN (UI cable)	ROCKER SWITCH	Continuity with position 22 if rocker switch is in "Lock" position, open if not.
15	BLACK (UI cable)	LOCKED OUTPUT	Connecting ground here and +12 VDC at position 22 should light the locked lamp.*
16			
17	BLACK	GROUND	Ground
18			
19			
20	YELLOW	DELAYED ALARM	Connecting ground here should sound vehicle horn.
21			
22	RED (UI cable)	POWER FOR USER INTERFACE	Continuity with position 14 if rocker switch is in "Lock" position, open if not.
23	WHITE (UI cable)	ALARM	Connecting ground here and +12 VDC at position 22 should sound the beeper.*

\*NOTE: If testing by connecting +12 Vdc to harness, use properly sized wire and properly sized in-line fuse.