

ELECTRICAL SYSTEM

AUTOMIZER VERSA HAND™



LabriePlus™

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ELECTRICAL SYSTEM

AUTOMIZER RIGHT-HAND™

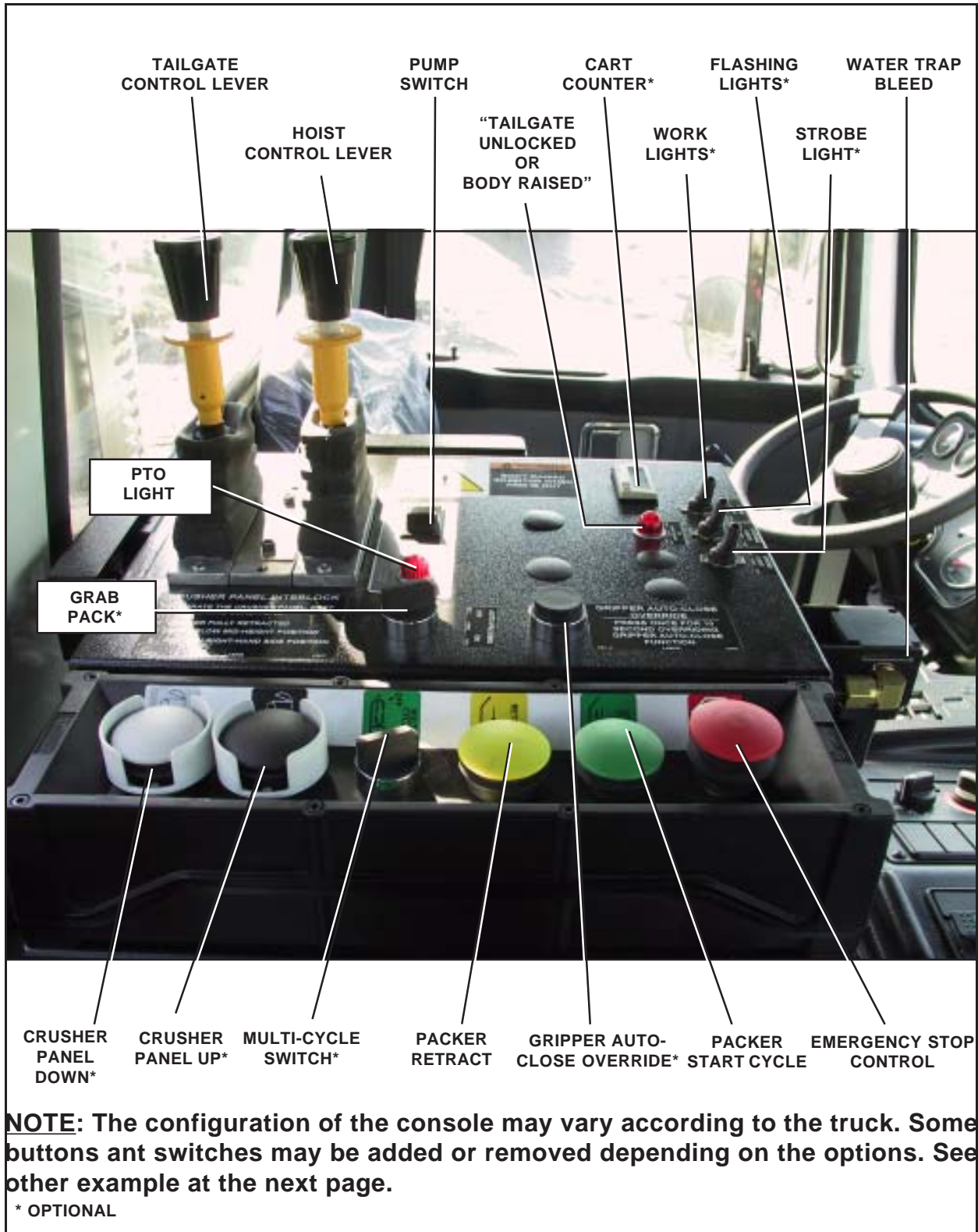
Table of Contents

7.0	ELECTRICAL SYSTEM	7 - 5
7.1	AUTOMIZER™ CONSOLE TYPES AND CONTROLS	7 - 5
7.1.1	CAB CONSOLE	7 - 5
7.2	AUTOMIZER™ WIRING SCHEMATICS	7 - 6
7.2.1	WIRING SCHEMATIC KEY NUMBERS AND COLORS	7 - 7
7.2.2	ELECTRIC SYMBOLS LEGEND	7 - 15
7.2.3	ELECTRICAL CONNECTOR	7 - 16
7.2.4	CONNECTOR CRIMP TOOLS	7 - 17
7.2.5	ELECTRICAL SCHEMATIC	7 - 18

7.0 ELECTRICAL SYSTEM

7.1 AUTOMIZER CONSOLE TYPES AND CONTROLS

7.1.1 CAB CONSOLE



7.2 AUTOMIZER™ WIRING SCHEMATICS

Each vehicle has specific electrical schematics depending on the options and the vehicle configuration. The schematics are identified by a number on the bottom right corner. These numbers are printed on a sticker found on the inside wall of the console installed in the middle of the cab.

NOTE:

The following schematics are general. They can be different depending on the options and configuration of the vehicle. The specific truck schematics are provided in a plastic bag, inside the console. To order specific schematics, please call Labrie Environmental Group.

7.2.1 WIRING SCHEMATIC KEY NUMBERS AND COLORS

Note: Every electrical wire is color coded and numbered with a circuit number every 2 inches. As this table is subject to change frequently, please call Labrie to obtain the last version.

Wire#	Description	Color
CAN0	CAN BUS GROUND REF	WHITE
CAN12	CAN BUS POSITIVE REF	BROWN
CANH	CAN BUS SIGNAL HIGH	YELLOW
CANL	CAN BUS SIGNAL LOW	GREEN
COM	IDLE SWITCH COMMUN ON TPS	ORANGE
IGN	IGNITION SIGNAL FROM KEY	BLUE
L82	BINARY SIGNAL #1 FROM LEFT-H WIPER SWITCH	GREY
L82A	BINARY SIGNAL #2 FROM LEFT-H WIPER SWITCH	GREY
L82B	BINARY SIGNAL #3 FROM LEFT-H WIPER SWITCH	GREY
R82	BINARY SIGNAL #1 FROM RIGHT-H WIPER SWITCH	GREY
R82A	BINARY SIGNAL #2 FROM RIGHT-H WIPER SWITCH	GREY
R82B	BINARY SIGNAL #3 FROM RIGHT-H WIPER SWITCH	GREY
SIG	SIGNAL FROM PROX SWITCH	BROWN
SHD	CABLE SHIELD CONTINUITY	GREY
SNZ	SNOOZE/ENABLE SIGNAL FOR MULTIPLEX MODULE	PURPLE
1	GENERAL GROUND ON RENAULT	WHITE
1A	LEFT GROUND CIRCUIT FOR LIGHTS ON RENAULT	WHITE
1B	RIGHT GROUND CIRCUIT FOR LIGHTS ON RENAULT	GREY
2	FLASHER CIRCUIT ON RENAULT	WHITE
3	TPS 5 VDC SUPPLY	RED
3A	LEFT STOP LIGHT CIRCUIT ON RENAULT	RED
3B	RIGHT STOP LIGHT CIRCUIT ON RENAULT	RED
7	CLUSTER SIGNAL ON RENAULT	GREY
8	TPS POSITION SIGNAL	BLACK
8	CLUSTER SIGNAL ON RENAULT	BLACK
9R	HORN GROUND REFERENCE INTERNATIONAL	GREY
9S	WIPER GROUND REFERENCE INTERNATIONAL	GREY
11	TPS GROUND OR BODY LIGHT GROUND	WHITE
11GAA	CAB GROUND INTERNATIONAL	WHITE
22	IGNITION SIGNAL ON RENAULT	BLUE
24	POWER 24VDC ON RENAULT	PURPLE
24A	POWER 24VDC ON RENAULT	GREY
25	IDLE SWITCH N.C. ON TPS	BLUE
25	PANEL LIGHT SUPPLY ON RENAULT	BLACK
27	IDLE SWITCH N.O. ON TPS	GREEN
28	IGNITON ON NAVISTAR'S CLUSTER	RED
30A	ENGINE OIL TEMPERATURE SIGNAL	BROWN
32	FLASHER CIRCUIT ON RENAULT	GREEN
33	FLASHER CIRCUIT ON RENAULT	GREEN
34	RIGHT TURN SIGNAL ON RENAULT	GREY
35	ENGINE OIL PRESSURE (INTERNATIONAL)	ORANGE
35	CLUSTER SIGNAL ON RENAULT	GREY
36	HAZARD SIGNAL ON RENAULT	BLACK
38	RIGHT TURN LIGHT ON RENAULT	GREEN
40	LOW AIR SIGNAL INTERNATIONAL	BLUE
52	HEADLIGHT HI-BEAM SIGNAL INTERNATIONAL	YELLOW
52A	HEADLIGHT HI-BEAM SWITCH INTERNATIONAL	YELLOW
56	LEFT TURN SIGNAL	YELLOW
56A	LEFT TURN SIGNAL INDICATOR	YELLOW
57	RIGHT TURN SIGNAL	GREEN
57A	RIGHT TURN SIGNAL INDICATOR	GREEN
58	CLEARANCE SIGNAL INTERNATIONAL	BROWN
62	PANEL LIGHT SUPPLY INTERNATIONAL	BLUE
62	FLASHER SIGNAL ON RENAULT	WHITE
63	FLASHER SIGNAL ON RENAULT	WHITE
64	DOOR CIRCUIT ON PONTICELLI	BLACK
68	TAIL SIGNAL INTERNATIONAL	BLACK
70	STOP LIGHT SIGNAL INTERNATIONAL	RED
71	BACK UP SIGNAL INTERNATIONAL	ORANGE

7.2.1 WIRING SCHEMATIC KEY NUMBER AND COLORS (cont'd)

Wire#	Description	Color
76	CLUSTER SIGNAL ON RENAULT	GREY
82	BINARY SIGNAL #1 TO INTERNATIONAL WIPER HARNESS	GREY
82A	BINARY SIGNAL #2 TO INTERNATIONAL WIPER HARNESS	GREY
82B	BINARY SIGNAL #3 TO INTERNATIONAL WIPER HARNESS	GREY
83	PARK APPLIED SIGNAL ON RENAULT	BLACK
84	LOW AIR SIGNAL ON RENAULT	BLACK
85	HORN SIGNAL INTERNATIONAL	GREY
85	LOW OIL SIGNAL ON RENAULT	BLACK
85B	CITY HORN SIGNAL INTERNATIONAL	GREY
85C	AIR HORN SIGNAL INTERNATIONAL	GREY
87A	WINDSHIELD WASHER SIGNAL	GREY
89	PANEL LIGHT SUPPLY ON RENAULT	WHITE
101	ACCELERATION SIGNAL	BLUE
101i	SPEED UP SWITCH MULTIPLEX	BLUE
102	SPARE (CL) OR RETRACT UPPER PACKER VALVE (CLT) OR	GREY
102	CHUTE TO LEFT (SFCMG) OR BUCKET OUT (CLGC 7V3) OR	GREY
102	FLASH TO PASS SIGNAL INTERNATIONAL	GREY
102A	SWIVEL BAR TO LEFT DOOR SIGNAL (CLGC 7V3)	GREY
103	CRUSHER PANEL RAISED SENSOR	GREY
103	CHUTE TO RIGHT (SFCMG) OR	GREY
103	POWER FOR SAFETY SWIVEL BAR SWITCH (CLGC 7V3)	GREY
103A	FORWARD UPPER PACKER VALVE INTERLOCK (CLT)	GREY
103B	SWIVEL BAR SAFETY SIGNAL (CLGC 7V3)	BLACK
104	P.T.O POWER & ECU PTO ENABLE INPUT (118)	BLACK
104i	OUTSIDE RED BUTTONS SIGNAL MULTIPLEX	WHITE
105	GROUND	WHITE
105A	GROUND FOR VALVE SUPPLY OR SERVICE BRAKE APPLIED SIGNAL	WHITE
105B	OVERRIDE INTERLOCK FOR TAG AXLE	WHITE
105C	MAIN JOYSTICK SWITCHED GND (CLA)	WHITE
105D	REMOTE JOYSTICK SWITCHED GND (CLA)	WHITE
105E	GROUND FOR R-H WIPER & CEILING FANS	WHITE
105F	GROUND FOR L-H AMBER PULSE LED	WHITE
105G	GROUND FOR R-H AMBER PULSE LED	WHITE
105H	DIGITAL GROUND REFERENCE FROM CATERPILLAR	YELLOW
106	RETRACT SIGNAL FOR AIR VALVE AND YELLOW BUTTON	YELLOW
106i	YELLOW BUTTON SIGNAL MULTIPLEX	YELLOW
106o	AIR VALVE RETRACT SIGNAL MULTIPLEX	GREEN
107	FORWARD SIGNAL FOR AIR VALVE AND GREEN BUTTON	GREEN
107i	GREEN BUTTON SIGNAL MULTIPLEX	GREEN
107o	AIR VALVE FORWARD SIGNAL MULTIPLEX	ORANGE
108	LIMIT SWITCH FULLY RETRACT N.O	GREY
109	SPARE (CL) OR SWITCHED GROUND FOR INNER BOOM PARKED PROX (SFCMG)	GREY
109A	FLOW DIVIDER ENABLE SIGNAL (CLT)	GREY
110	RIGHT CONTROL POWER CL	BLACK
110	OR PARKING PROX SIGNAL SFCMG	BLACK
110i	RIGHT PACKER CONTROL SELECTOR SWITCH MULTIPLEX	BLACK
111	LEFT CONTROL POWER	BLACK
111i	LEFT PACKER CONTROL SELECTOR SWITCH MULTIPLEX	BLACK
111o	LEFT PACKER CONTROL SWITCHES ENABLED MULTIPLEX	BLACK
112	LEFT PANIC BAR TO LEFT CONTROL POWER	RED
113	LEFT TO RIGHT CONTROL POWER	RED
114	P.T.O. POWER FROM PRESSURE SWITCH OR FREE WIRE ON LEFT PACKER CONTROL ...	BLACK
115	FREE WIRE ON RIGHT PACKER CONTROL	ORANGE
116	PROTECTED POWER INTO PACKER MODULE	ORANGE
117	CAB CONTROL TO LEFT PANIC BAR POWER	RED
117A	SIGNAL BETWEEN L-H & R-H PANIC BAR	RED
118	POWER FUSE #2 (WARNING SIGNAL)	GREY
119	BODY RAISED & TAILGATE UNLOCKED SIGNAL	BROWN
119A	BODY RAISED/TAILGATE UNLOCKED SIGNAL	BROWN

7.2.1 WIRING SCHEMATIC KEY NUMBER AND COLORS (cont'd)

Wire#	Description	Color
119i	BODY RAISED INPUT MULTIPLEX	BROWN
119o	BODY RAISED & TAILGATE UNLOCKED ALARM (SOUND & LIGHT)	BROWN
120	POWER FUSE #4 (WORK LIGHT)	RED
121	TAILGATE FULLY OPEN SIGNAL	BROWN
121i	TAILGATE FULLY OPEN INPUT MULTIPLEX	BROWN
121o	TAILGATE FULLY OPEN OUTPUT MULTIPLEX	BROWN
122	STOP SIGNAL	RED
122i	BRAKE APLIED PRESS. SWITCH SIGNAL MULTIPLEX	RED
122o	STOP LIGHT OUTPUT MULTIPLEX	RED
123	POWER BREAKER #3 (PTO & SPEED UP POWER FEED)	RED
124	SPEED UP SIGNAL POWER OUTPUT	BLACK
125	P.T.O SWITCH TO CAB CONTROL	RED
125i	P.T.O. SWITCH SIGNAL MULTIPLEX	RED
126	SPEED UP SIGNAL POWER OUTPUT	BLUE
126A	POSITIVE SPEED UP OUTPUT #1 MUTILPLEX	BLUE
126B	POSITIVE SPEED UP OUTPUT #2 MUTILPLEX	BLUE
126C	NEGATIVE SPEED UP OUTPUT #1 MUTILPLEX	BLUE
126D	NEGATIVE SPEED UP OUTPUT #2 MUTILPLEX	BLUE
126i	SPEED UP INHIBITOR SWITCH MULTIPLEX	BLUE
127	POWER MULTI-CYCLE MODULE	RED
128	ECU INPUT GROUND (161-B)	GREY
129	ECU INPUT PACK ENABLE (117)	GREY
130	CAB CONTROL POWER	BLACK
131	AUTO-NEUTRAL OPTION, FOOT VALVE TO RELAY N.O.	GREY
131i	AUTO-NEUTRAL FOOT BRAKE PRESS. SW. SIGNAL MULTIPLEX	GREY
132	AUTO-NEUTRAL OPTION, POWER TO RELAYS	GREY
132i	AUTO-NEUTRAL SWITCH SIGNAL MULTIPLEX	GREY
132o	AUTO-NEUTRAL LIGHT OUTPUT MULTIPLEX	GREY
133	RIGHT TO LEFT PANIC BAR POWER	RED
134	JUMPER IF NO PANIC BAR	RED
135	CEILING FAN SUPPLY	BLACK
136	POWER LIMIT SWITCH RETRACT	ORANGE
137	LIMIT SWITCH FULLY RETRACT N.C. (PACKER RETRACT STOP SIGNAL)	YELLOW
138	ECU NEUTRAL SIGNAL(114)	GREY
139	BACK UP SIGNAL	GREY
139o	REVERSE GEAR SIGNAL	GREY
140	R-H DRIVING POST ENABLED SIGNAL	RED
140A	L-H DRIVING POST ENABLED SIGNAL	RED
141	POWER BREAKER #1 (PACKER MODULE & PTO LOGIC)	RED
141A	BODY RAISED INHIBIT IF ARM OUT TIMER ON	RED
141B	BODY RAISED INHIBIT SOLENOID	RED
141C	DEAD MAN SIGNAL	RED
142	WORK LIGHT	PURPLE
142i	WORK LIGHT SWITCH MULTIPLEX	PURPLE
142o	WORK LIGHT OUTPUT MULTIPLEX	PURPLE
143	STROBE LIGHT	PURPLE
143i	STROBE LIGHT SWITCH MULTIPLEX	PURPLE
143o	STROBE LIGHT OUTPUT MULTIPLEX	PURPLE
144	AMBER FLASHING LIGHT	PURPLE
145	AMBER FLASHING LIGHT	PURPLE
146	BACK UP SIGNAL FOR GLOBAL EYES OR TAG AXLE	GREY
146A	BACK UP SIGNAL FOR TAG AXLE OVER DIODE	GREY
146B	BACK UP SIGNAL FOR TAG AXLE OVER INTERLOCK	GREY
147	PTO POWER OUTPUT	BLACK
147A	UPPER RIGHT TAILGATE DOOR PROX POWER (CLT)	BLACK
147B	UPPER LEFT TAILGATE DOOR PROX POWER (CLT)	BLACK
148	POWER TAKE OFF PRESSURE SWITCH	BLUE
149	ECU P.T.O ENABLE (112)	GREY
150	ECU NEUTRAL PACKER INPUT (153)	GREY

7.2.1 WIRING SCHEMATIC KEY NUMBER AND COLORS (cont'd)

Wire#	Description	Color
151	POWER MULTI-CYCLE OPTION	RED
152	POWER AMBER FLASHING RELAY	PURPLE
153	ACCELERATION SOLENOID GROUND FROM NEUTRAL RELAY	WHITE
154	POWER FUSE #5 (AMBER & STROBE)	RED
154A	LEFT MIRROR WORK LIGHT	BLACK
155	+9V REGULATED FROM AUTODUMP CONTROL MODULE	RED
156	AUTO NEUTRAL OPTION, FOOT VALVE TO COIL RELAY	BLACK
156	POWER FUSE #3 (PROX. #5 POWER)	BLACK
156A	AUTODUMP PARKING INPUT SUPPLY	RED
157	NAVISTAR ECM FUNCTION SET (1500 RPM) (46B)	RED
157	POWER FUSE #1 (GRABBER POWER)	RED
157	ALLISON VEHICULE SPEED SIGNAL	RED
158	NAVISTAR ECM FUNCTION ENABLE PRESET (97CB)	RED
158	POWER FUSE #4 (JOYSTICK POWER)	RED
158A	LATCH RELAYS FEED	RED
158C	JOYSTICK SELECTOR FEED (CLA)	RED
158D	JOYSTICK IN PLACE SENSOR SIGNAL	RED
159	NAVISTAR ECM VPTO (97DF)	GREEN
160	SUPPLY FOR RELAY 345 (CF)	RED
161	R-H WIPER SUPPLY INTERNATIONAL	BLACK
162	TAILGATE UNLOCKED INPUT MULTIPLEX	BROWN
163	IGNITION SIGNAL MULTIPLEX	BLUE
164	AUX. ACCESSORIES SUPPLY MULTIPLEX	RED
167	OVERSPEED SIGNAL FROM ALISSON	GREY
170	LEFT TAILGATE SOLENOID VALVE (CLT) OR UPPER DOOR	ORANGE
171	RIGHT TAILGATE SOLENOID VALVE (CLT) OR SWING DOOR	ORANGE
172	TAILGATE SOLENOID VALVE (CLT) OR TAILGATE	ORANGE
180	NC CONTACT LEFT CHUTE PROX SIGNAL (SFCMG)	YELLOW
181	NC CONTACT RIGHT CHUTE PROX SIGNAL (SFCMG)	BLUE
183	NO CONTACT LEFT CHUTE PROX SIGNAL (SFCMG)	BLACK
184	NO CONTACT RIGHT CHUTE PROX SIGNAL (SFCMG)	GREEN
185	OUTPUT TRANSPONDER (SFCMG)	GREY
186	TRIG SIGNAL (SFCMG)	RED
187	NOT ON LEFT, NOT ON RIGHT SIGNAL (SFCMG)	PURPLE
188	MERGE OF 102 & 103 ON CLSF CMG	GREY
189	TRAVELING INTERLOCK ON CLSF CMG	RED
190	12V SUPPLY TO COIL SELECTOR VALVE (CLGC)	RED
190	LEFT CHUTE INTERLOCK ON CLSF CMG	RED
191	CHUTE ENABLE SIGNAL (CLGC)	RED
192	EXTENSION CYLINDER ENABLE SIGNAL	BLACK
193	DUMP GARBAGE SELECTED	GREEN
194	GLASS COMP. DUMP SELECTED	GREEN
202	FLASHER SIGNAL ON RENAULT	GREEN
208	DOOR CIRCUIT ON RENAULT	GREY
216	WIPER CIRCUIT ON RENAULT	GREY
216G	LEFT WIPER CONTROL SIGNAL ON RENAULT	GREY
216D	RIGHT WIPER CONTROL SIGNAL ON RENAULT	GREY
301	FORWARD PACKER SOLENOID (CF) OR	YELLOW
301	LEFT TURN LIGHT ON RENAULT	YELLOW
302	RETRACT PACKER SOLENOID(CF)	YELLOW
303	OPEN ROOF SOLENOID (CF)	ORANGE
304	CLOSE ROOF SOLENOID (CF) OR	ORANGE
304	RIGHT MARKER LIGHT ON RENAULT	BROWN
305	GENERAL BATTERY GROUND (CF) OR	WHITE
305	LEFT MARKER LIGHT ON RENAULT	BROWN
305A	OVERRIDE SWITCH SIGNAL (CF)	WHITE
306	CLOSE TAILGATE SOLENOID (CF)	ORANGE
307	BUILT UP SOLENOID (CF)	BLUE
307A	BUILT UP SIGNAL FROM FORK WIDTH SWITCH (CF) OR	BLUE

7.2.1 WIRING SCHEMATIC KEY NUMBER AND COLORS (cont'd)

Wire#	Description	Color
307A	LEFT FOG LIGHT CIRCUIT ON RENAULT	ORANGE
307B	RIGHT FOG LIGHT CIRCUIT ON RENAULT	ORANGE
308	FLASHER CIRCUIT ON RENAULT	WHITE
309	N.O. CONTACT ON LIMIT SWITCH PACKER FULLY RETRACT	ORANGE
310	COMMUN LIMIT SWITCH PACKER FULLY RETRACT	ORANGE
311	N.O. CONTACT ON LIMIT SWITCH PACKER FULLY EXTEND (CF)OR	YELLOW
311	FLASHER CIRCUIT ON RENAULT	WHITE
313	N.O. CONTACT ON LIMIT SWITCH TAILGATE UNLOCK (CF) OR	BROWN
313	FLASHER CIRCUIT ON RENAULT	WHITE
313A	OUTPUT TAILGATE UNLOCK	BROWN
314	POSITIVE COMMUN FOR PROX SWITCH	RED
315	NO. CONTACT ON LIMIT SWITCH TAILGATE OPEN	BROWN
316	N.O. CONTACT ON LIMIT SWITCH ROOF OPEN	BROWN
317	N.O. CONTACT ON LIMIT SWITCH HOPPER DOOR OPEN	RED
318	COM ON LIMIT SWITCH HOPPER DOOR OPEN	RED
319	OPEN TAILGATE SIGNAL	ORANGE
320	CLOSE TAILGATE SIGNAL	ORANGE
321	AUTO DUMP MODULE, MAIN SUPPLY (CF)	BLACK
322	AMBER FLASHING LIGHT (CF)	BLACK
323	AMBER FLASHING LIGHT (CF)	BLACK
324	FRONT WORKING LIGHT (CF)	BROWN
325	STROBE LIGHT	PURPLE
326	MIRROR WORKING LIGHT	BROWN
327	HOPPER WORK LIGHT	BROWN
328	HOPPER LIGHT SUPPLY (CF)	RED
329	STROBE & AMBER SUPPLY (CF)	RED
330	FORWARD SIGNAL (1)	GREEN
331	PTO POWER OUTPUT	RED
331A	POWER FOR CONSOLE PACKER SWITCHES	RED
331B	POWER FOR OUTSIDE REMOTE PACKER SWITCHES	RED
332	YELLOW BUTTON SIGNAL	YELLOW
333	GREEN BUTTON SIGNAL	GREEN
334	PACKER FULLY RETRACTED	ORANGE
335	INPUT POWER FOR PACKER MODULE	RED
336	PTO SWITCH & EMERGENCY RED BUTTON	RED
336A	POWER LOOP FOR OUSTSIDE RED PUSH BUTTON	RED
337	PTO SWITCH & FUSE	RED
345	SIGNAL ARM UP AND JOYSTICK SOLENOID	BLACK
345A	POWER FOR JOYSTICK AND AUTODUMP MODULE	BLACK
345B	POWER FOR CAB JOYSTICK (CF)	BLACK
345C	POWER FOR OUTSIDE REMOTE JOYSTICK (CF)	BLACK
345D	POWER FOR LEFT-H JOYSTICK (CF)	BLACK
345E	POWER FOR RIGHT-H JOYSTICK (CF)	BLACK
346	SPARE 1	PURPLE
347	SPARE 2	PURPLE
348	FORKS OVERHEAD SIGNAL, CF	PURPLE
349	SPARE 4	PURPLE
351	BACK UP SIGNAL FROM CONSOLE (CF) OR	BLACK
351	ABS LIGHT, RENAULT	BLACK
352	CLUSTER SIGNAL ON RENAULT	BLACK
356	SPEED UP OUTPUT	BLACK
356A	SPEED UP SWITCH	BLACK
357	NEUTRAL SWITCH	BLACK
501	WIPER CIRCUIT ON RENAULT	GREY
501G	WIPER CIRCUIT ON RENAULT	GREY
501D	WIPER CIRCUIT ON RENAULT	GREY
502	WIPER CIRCUIT ON RENAULT	GREY
504	P.T.O POWER & ECU PTO ENABLE INPUT (118) OR	BLACK
504	WIPER CIRCUIT ON RENAULT	GREY

7.2.1 WIRING SCHEMATIC KEY NUMBER AND COLORS (cont'd)

Wire#	Description	Color
504G	WIPER CIRCUIT ON RENAULT	GREY
504D	WIPER CIRCUIT ON RENAULT	GREY
505	GROUND	WHITE
506	WIPER CIRCUIT ON RENAULT	GREY
507	WIPER CIRCUIT ON RENAULT	GREY
508	WIPER CIRCUIT ON RENAULT	GREY
510	TAILGATE FULLY OPEN (OPTIONAL)	ORANGE
511	SIGNAL FOR JOYSTICK SOLENOID SELECTION	ORANGE
513	POWER FEED FOR DRIVING SIDE LIGHT	RED
513A	LEFT DRIVING SIDE ENABLED LIGHT	GREEN
518	POWER FUSE #2 15A. (BACK UP SIGNAL)	RED
519	BODY RAISED/TAILGATE UNLOCKED SIGNAL/BUCKET OR ROOF UP	BROWN
520	POWER FUSE #3 10A. (WORK LIGHT)	RED
521	SPARE WIRE #1 TS	BLUE
522	SPARE WIRE #2 TS	BLUE
526	ACCELERATION SIGNAL FROM MAXIMIZER PRESSURE SWITCH	WHITE
526A	SPEED UP SWITCH FROM REMOTE CONTROLLER (CF)	WHITE
526A	OR SPEED UP MACK OVER DIODE	WHITE
526B	KANN COMPACTOR ENABLED (TS)	WHITE
528	ECU INPUT GROUND (161-B)	GREY
529	ECU INPUT PACK ENABLE (117)	GREY
531	AUTO-NEUTRAL OPTION, FOOT VALVE TO RELAY N.O.	GREY
531A	L-H AUTONEUTRAL SERVICE PRESS. SWTCH	GREY
532	AUTO-NEUTRAL OPTION, POWER TO RELAYS	GREY
537	STOP SIGNAL	RED
538	ECU NEUTRAL SIGNAL (114)	GREY
539	BACK UP SIGNAL	BLACK
540	POWER FOR OPTIONAL LEFT WORK LIGHT	RED
541	POWER BREAKER #1 15A. (PTO, SPEED UP) OR	RED
541B	SERVICE BRAKE APPLIED ON PONTICELLI	RED
542	WORK LIGHT	PURPLE
543	STROBE LIGHT	PURPLE
544	AMBER FLASHING LIGHT	PURPLE
545	AMBER FLASHING LIGHT	PURPLE
546	MAIN POWER FOR FUSE BLOCK	RED
547	POWER TO P.T.O. & JOYSTICK SOLENOID	BLACK
548	POWER TAKE OFF PRESSURE SWITCH	GREEN
549	ECU P.T.O ENABLE (112)	GREY
550	ECU NEUTRAL PACKER INPUT (153)	GREY
551	POWER FUSE #5, 15A (BACK UP LIGHT AND ALARM)	RED
552	POWER AMBER FLASHING RELAY	PURPLE
553	NEUTRAL SIGNAL FOR BIMBA (GROUND)	WHITE
554	POWER FUSE #4 15A. (STOBE & AMBER)	RED
555	POWER FOR OPTIONAL BACK UP LIGHT	RED
556	AUTO NEUTRAL OPTION, FOOT VALVE TO COIL RELAY	BLACK
556A	AUTO NEUTRAL PRESSURE SWITCH ON TWO WAY CHECK VALVE	BLACK
557	SET SIGNAL FOR NAVPAK ENGINE	BLACK
558	ENABLE PRESET SIGNAL FOR NAVPAK ENGINE	RED
559	V PTO SIGNAL FOR NAVPAK ENGINE	GREEN
560	REMOTE PTO SIGNAL FOR VOLVO OR CUMMINS ENGINE	BLACK
561	INPUT #1 SIGNAL FOR CATERPILAR ENGINE	BLACK
562	COMMUN #2 SIGNAL FOR CATERPILAR ENGINE	WHITE
565	CLUSTER SIGNAL ON RENAULT	WHITE
570	SEPARATOR #1 UNLOCKED SIGNAL	BROWN
571	SEPARATOR #2 UNLOCKED SIGNAL	BLUE
572	SEPARATOR #3 UNLOCKED SIGNAL	YELLOW
573	SEPARATOR #4 UNLOCKED SIGNAL	BLACK
574	SEPARATOR #5 UNLOCKED SIGNAL	GREEN
600	FUEL GAUGE SIGNAL	GREY

7.2.1 WIRING SCHEMATIC KEY NUMBER AND COLORS (cont'd)




























Wire#	Description	Color
601	MAIN FUEL TANK SENDER SIGNAL	BLACK
602	AUX. FUEL TANK SENDER SIGNAL	BLACK
603	FUEL SELECTOR VALVE MOTOR (-) OR	WHITE
603	HIGH BEAM SIGNAL ON RENAULT	BLACK
604	FUEL SELECTOR VALVE MOTOR (+)	BLACK
605	HEAD LIGHT, RENAULT	BLACK
608A	LEFT BACK UP LIGHT ON RENAULT	BLUE
608B	RIGHT BACK UP LIGHT ON RENAULT	BLUE
611	CLUSTER SIGNAL ON RENAULT	WHITE
624	CLUSTER SIGNAL ON RENAULT	WHITE
625	CLUSTER SIGNAL ON RENAULT	WHITE
625A	CLUSTER SIGNAL ON RENAULT	GREY
801	SIGNAL POTENTIOMETER #1 (ARM) OR TRIGGER SIGNAL (CLAH)	BROWN
801i	SIGNAL POTENTIOMETER #1 (INNER) MULTIPLEX	BROWN
801o	POTENTIOMETER #1 OUTPUT SIGNAL (INNER) MULTIPLEX	BROWN
802	SIGNAL POTENTIOMETER #2 (FORK)	BROWN
802i	SIGNAL POTENTIOMETER #2 (OUTER) MULTIPLEX	BROWN
802o	POTENTIOMETER #2 OUTPUT SIGNAL (OUTER) MULTIPLEX	BROWN
803	SIGNAL OF PROX #3	BROWN
803i	SIGNAL OF PROX #3 MULTIPLEX	BROWN
803o	INNER BOOM GROUND SUPPLY MULTIPLEX	BROWN
803P	PROX #3 OUTPUT SIGNAL MULTIPLEX	BROWN
804	SIGNAL OF PROX #4	BROWN
804i	SIGNAL OF PROX #4 MULTIPLEX	BROWN
804o	OUTER BOOM GROUND SUPPLY MULTIPLEX	BROWN
804P	PROX #4 OUTPUT SIGNAL MULTIPLEX	BROWN
805	PARKING LIMIT OR PROX SWITCH SIGNAL	BLUE
805i	PARKING PROX SIGNAL MULTIPLEX	BLUE
805o	PARKING LIGHT OUTPUT MULTIPLEX	BLUE
806	POWER FOR VALVE ARM OR VALVE #1	ORANGE
806A	POWER FORK VALVE (WHEN AUTODUMP)	ORANGE
806i	JOYSTICK NEUTRAL SWITCH INPUT MULTIPLEX	ORANGE
806o	AUTOMATED VALVE POSITIVE SUPPLY MULTIPLEX	ORANGE
807	PROPORTIONAL SIGNAL ARM OR INNER BOOM VALVE OR VALVE #2	WHITE
807i	INNER BOOM PROPORTIONAL SIGNAL INPUT FROM AUTODUMP MODULE	WHITE
807o	INNER BOOM PROPORTIONAL SIGNAL OUTPUT TO VALVE MULTIPLEX	WHITE
808	SIGNAL FROM AUTODUMP SWITCH	ORANGE
808A	SPEED UP OUTPUT FROM AUTODUMP SWITCH	ORANGE
808B	SPEED UP OUTPUT FROM TIMER	ORANGE
810	JOYSTICK NEUTRAL SWITCH OUTPUT	ORANGE
810A	REMOTE JOYSTICK FEED (CLA)	RED
811	PROPORTIONAL SIGNAL FORK OR OUTER BOOM VALVE OR VALVE #1	BLACK
811i	OUTER BOOM PROPORTIONAL SIGNAL INPUT FROM AUTODUMP MODULE	BLACK
811o	OUTER BOOM PROPORTIONAL SIGNAL OUTPUT TO VALVE MULTIPLEX	BLACK
812	GROUND SYPPLY TO ARM COIL RELAY	WHITE
813	GROUND SYPPLY TO FORK COIL RELAY	WHITE
814	INCREASE WIDTH FORK OR OPEN GRAB	GREEN
814i	OPEN GRABBER SWITCH SIGNAL MULTIPLEX	GREEN
814o	OPEN GRABBER OUTPUT TO VALVE MULTIPLEX	GREEN
815	DECREASE WIDTH FORK OR CLOSE GRAB	YELLOW
815A	CLOSE GRABBER SIGNAL FROM MODULE	YELLOW
815i	CLOSE GRABBER SWITCH SIGNAL MULTIPLEX	YELLOW
815o	CLOSE GRABBER OUTPUT TO VALVE MULTIPLEX	YELLOW
816	ARM UP VALVE OR INNER BOOM JOYSTICK SIGNAL	WHITE
816A	ARM UP CONTACT SWITCH SIGNAL	WHITE
817	ARM DOWN VALVE OR OUTER BOOM JOYSTICK SIGNAL	BLACK
817A	ARM DOWN CONTACT SWITCH SIGNAL	BLACK
818	FORK UP VALVE SIGNAL	RED
818A	FORK UP CONTACT SWITCH SIGNAL	RED

7.2.1 WIRING SCHEMATIC KEY NUMBER AND COLORS (cont'd)

Wire#	Description	Color
819	FORK DOWN VALVE SIGNAL (CF) OR	GREEN
819	SPEED UP SIGNAL ON PONTICELLI	RED
819A	FORK DOWN CONTACT SWITCH SIGNAL	GREEN
820	BAR EMERGENCY STOP SIGNAL (CF)	GREY
820	TRIGGER SIGNAL 2 (CLAHH)	GREY
821	ARM BOUNCE SIGNAL (CF) OR OPEN CLAMP SW (RIGHT-HAND)	PURPLE
821	TRIGGER SIGNAL 3 (CLAHH)	PURPLE
822	FORK BOUNCE SIGNAL(CF) OR CLOSE CLAMP SW (RIGHT-HAND)	PURPLE
823	ARM JOYSTICK SIGNAL (CF)	BLUE
824	FORK JOYSTICK SIGNAL (CF)	BLACK
825	BAR STOP OVERRIDE (CF)	GREY
826	300 GALLONS SELECTOR SWITCH (CLA)	PURPLE
837	CLUSTER SIGNAL ON RENAULT	WHITE
1001	DOOR CIRCUIT ON PONTICELLI	GREY
2002	RIGHT DRIVING SIDE ENABLED LIGHT	RED
2002A	DOOR CIRCUIT ON PONTICELLI	ORANGE
2009	TPS, PWM1 TO ENGINE ON PONTICELLI	YELLOW
2009G	LEFT TPS, PWM1 ON PONTICELLI	YELLOW
2009F	RIGHT TPS, PWM1 ON PONTICELLI	YELLOW
2010	TPS, PWM2 TO ENGINE ON PONTICELLI	GREEN
2010G	LEFT TPS, PWM2 ON PONTICELLI	GREEN
2010D	RIGHT TPS, PWM2 ON PONTICELLI	GREEN































7.2.2 ELECTRIC SYMBOLS LEGEND

Refer to this legend to identify the parts on the electrical schematics.



















	6 outlets AMP or DEUTSCH connector. (Typical)		10 fuses ATO fuse block (ELR00460)
	12-volt single pole N.O.-N.C. relay and base. (ELR00810) and base (ELR00860)		6" 12-volt strobe light (ELL02765)
	12-volt alternating flasher relay. (ELR 00700)		12-volt amber flashing light (ELL02855)
	55 PSI pressure switch N.O. installed on pneumatic line #1. (PNI00600)		12-volt work light (ELL01300)
	0-60 PSI adjustable pressure switch N.O. installed on pneumatic line # 1. (PNI00605)		12-volt backup alarm on chassis (ELA00700)
	12-volt solenoid valve (PNV01957).		Packer module (CL- ELM01005, CF- ELM01025)*
	12-volt dual solenoid valve for packer. (PNV01914)		Multi-cycle module (ELM01605)
	Bipolar switch (ELB02505)		2 N.O. , 2 N.C., 3 positions switch (ELB00260, 2 X ELB00270)
	N.C. limit switch (ELI00550, ELC00200 & ELI00850)		1A diode (ELD00100)
	Single pole switch		Red emergency button (ELB002200)
	12-volt buzzer on console (ELR01000)	<p>*</p> <p>SF = AUTOMIZER CL = EXPERT 2000 CF = OPTIMIZER</p> <hr/> <p>N.O. = NORMALLY OPEN N.C. = NORMALLY CLOSED</p>	
	12-volt red pilot light (PNI00500)		
	12-volt green pilot light. (PNI00500 & ELL00300)		
	To ground post into console		
	12-volt solenoid		
	12-volt speed-up air actuator (PNC00250)		
	10 A fuse (Typical)		

7.2.3 ELECTRICAL CONNECTORS

DEUTSCH

 ELC04100 DT04-2S	 ELC04100 DT04-3S	 ELC04200 DT04-4S	 ELC04300 DT04-6S	 ELC04400 DT04-8S	 ELC04500 DT04-12S	 ELT0200 15 awg 0452-201-10141  ELT0400 14 awg 0452-203-10141
 ELC06100 W2S	 ELC06100 W3S	 ELC06200 W4S	 ELC06300 W6S	 ELC06400 W8S	 ELC06500 W12S	 ELC08000 11AW17
 ELC05100 DT04-2P	 ELC05100 DT04-3P	 ELC05200 DT04-4P	 ELC05300 DT04-6P	 ELC05400 DT04-8P	 ELC05500 DT04-12P	 ELC05501 DT04-12PC
 ELC07100 W2P	 ELC07100 W3P	 ELC07200 W4P	 ELC07300 W6P	 ELC07400 W8P	 ELC07500 W12P	 ELT0200 16 awg 0450-202-10141  ELT0150 14 awg 0450-210-10141

AMP

 ELC0400 white 1-450801-0	 ELC0410 white 1-450803-0	 ELC0410 white 1-450700-0	 ELC0420 white 1-450702-0	 ELC0420 white 1-450704-0	 ELC0420 white 1-450706-0	 ELC0430 white 1-450708-0 ELC0431 red 1-450708-2	 ELC0430 white 1-450710-0	 ELT0100 05010-1
 ELC0400 white 1-450801-1	 ELC0410 white 1-450803-1	 ELC0410 white 1-450700-1	 ELC0420 white 1-450702-1	 ELC0420 white 1-450704-1	 ELC0420 white 1-450706-1	 ELC0430 white 1-450708-1 ELC0431 red 1-450708-2	 ELC0430 white 1-450710-1	 ELT0100 05010-1

7.2.4 CONNECTOR CRIMP TOOLS



Crimp tool for Deutsch connectors

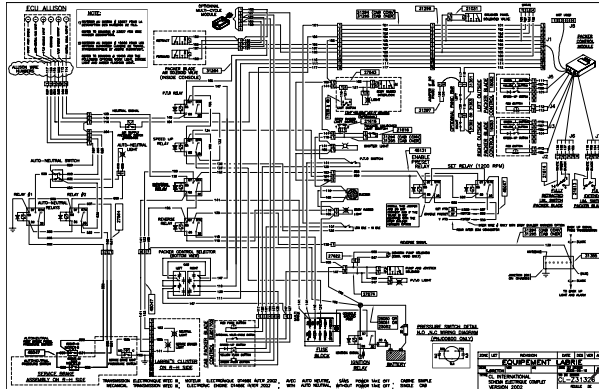


Crimp tool for AMP connectors

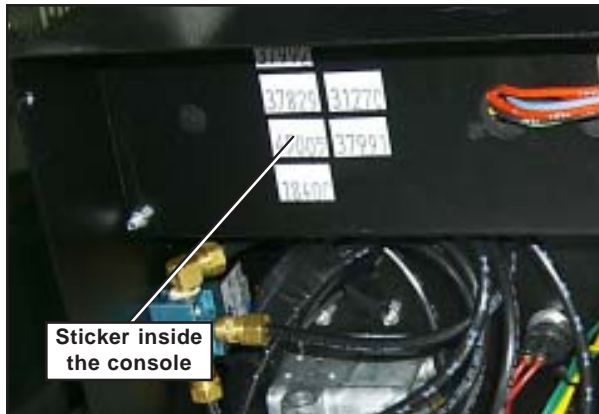
7.2.5 ELECTRICAL SCHEMATIC

Note:

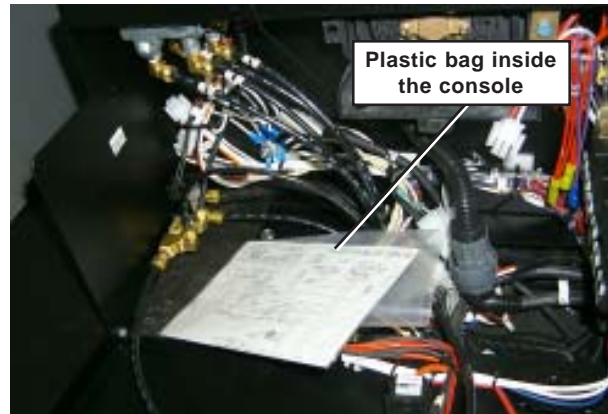
Each vehicle has specific electrical schematics depending on the options and the vehicle configuration. The schematics are identified by a number on the bottom right corner. These numbers are printed on a sticker found on the inside wall of the console installed in the middle of the cab. Also, a set of schematics in a plastic bag is provided inside the console.



Schematic
number



Sticker inside
the console



Plastic bag inside
the console

NOTE: Please call Labrie to order specific schematics.

