

# **ELECTRICAL SYSTEM**

## **AUTOMIZER RIGHT-HAND™**



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# ELECTRICAL SYSTEM

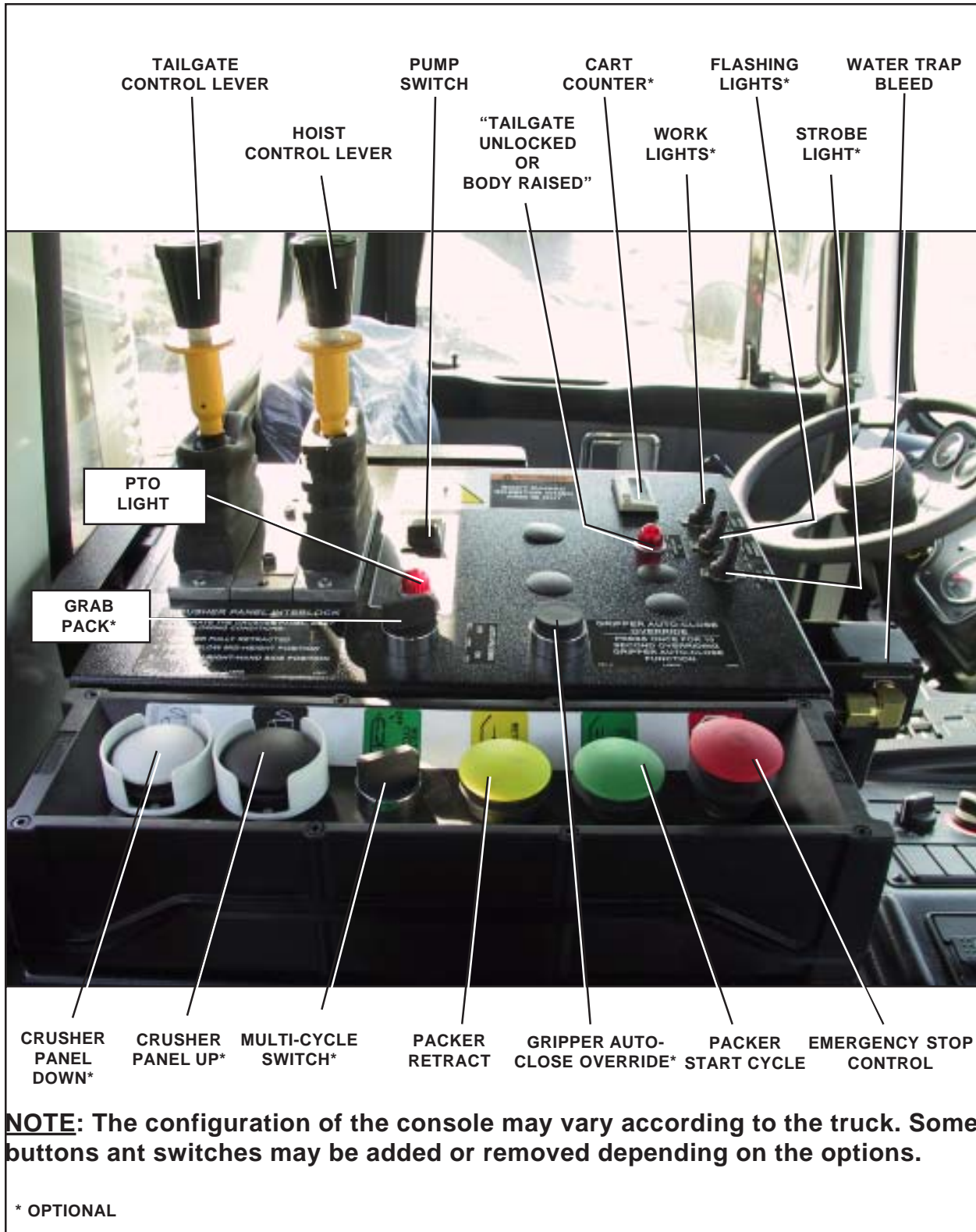
## AUTOMIZER RIGHT-HAND™

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**7.0 ELECTRICAL SYSTEM**  
**7.1 AUTOMIZER CONSOLE TYPES AND CONTROLS**  
**7.1.1 CAB CONSOLE**



**NOTE:** The configuration of the console may vary according to the truck. Some buttons and switches may be added or removed depending on the options.

\* OPTIONAL

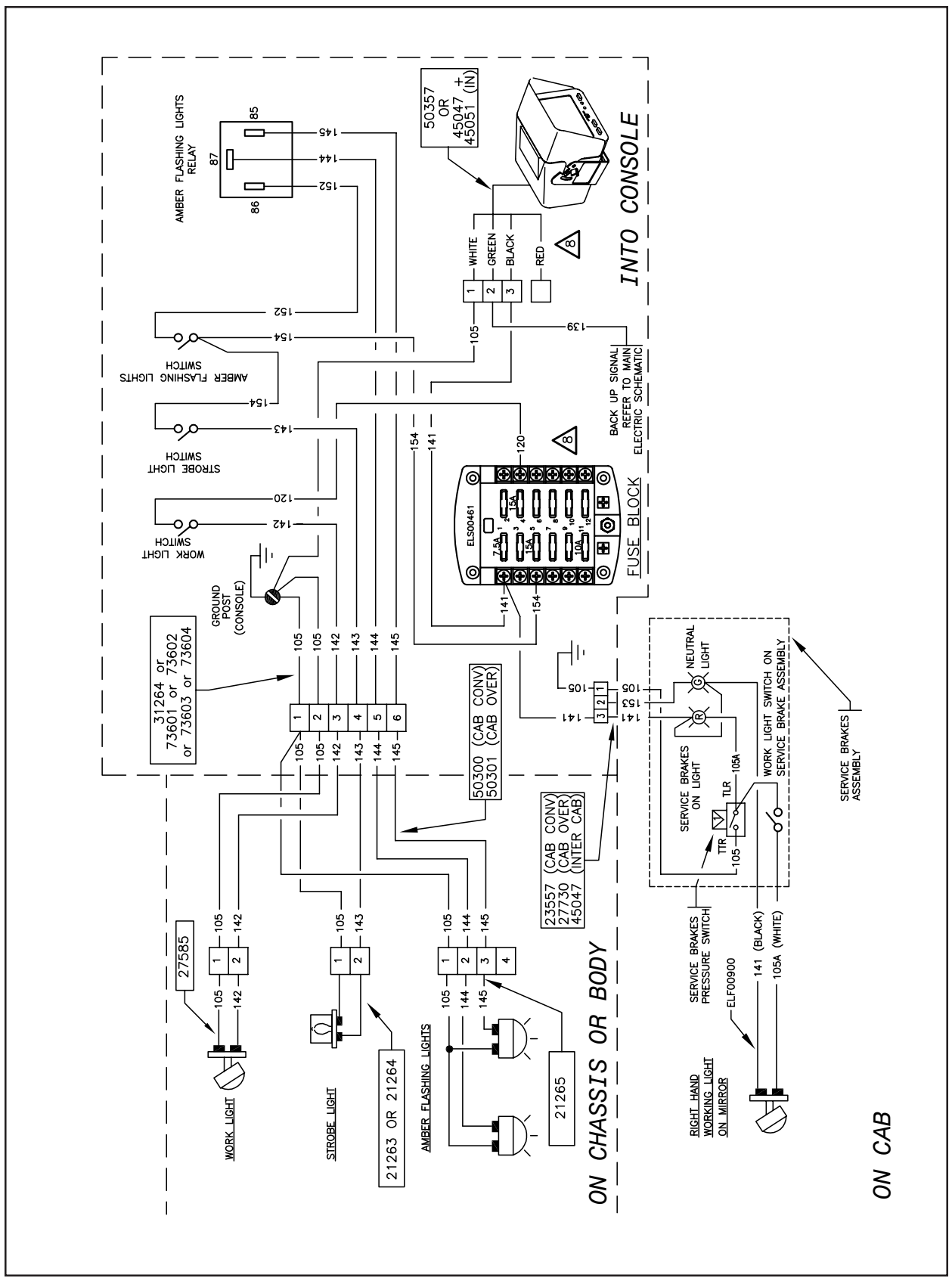
## 7.2 AUTOMIZER™ WIRING SCHEMATICS

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:**

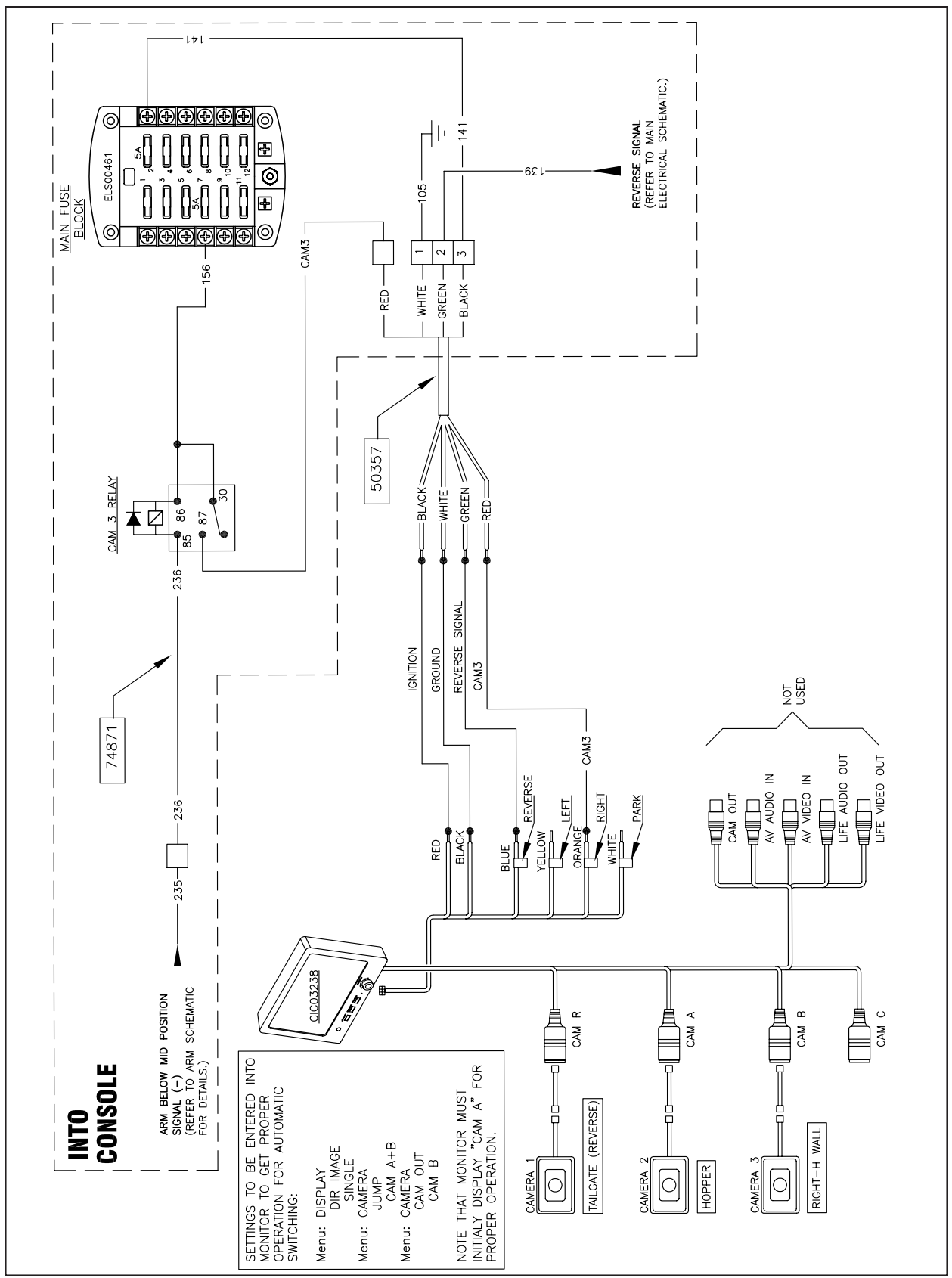
The following schematics are general and for reference only. They can be different depending on the options and configuration of the vehicle. The specific truck schematics are provided in a plastic bag, inside the console. To order specific schematics, please call Labrie.

### 7.2.1 OPTIONAL LIGHTING





### 7.2.3 CAMERA SWITCHER







## 7.2.5 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

## 7.2.5 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

## 7.2.5 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 OPEND SIGNAL .....	BROWN
121i	TAILGATE FULLY OPEN INPUT MULTIPLEX .....	BROWN
121o	TAILGATE FULLY OPEN OUTPUT MULTIPLEX .....	BROWN
122	STOP SIGNAL .....	RED
122i	BRAKE APLLIED 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

## 7.2.5 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

## 7.2.5 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

## 7.2.5 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

## 7.2.5 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

## 7.2.5 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

































### 7.2.6 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		Emergency red button (ELB002200)
	12-volt buzzer on console (ELR01000)	<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)		

7.2.7 ELECTRICAL CONNECTOR

DEUTSCH

 ELC04150 C704-36	 ELC04148 C704-36	 ELC04080 C704-48	 ELC04080 C704-48	 ELC04080 C704-48	 ELC04080 C704-48	 ELC04080 C704-120	 ELC04080 18 AWG C900-307-18147 ELC04080 18 AWG C900-308-18147
 ELC04150 W36	 ELC04148 W36	 ELC04080 W48	 ELC04080 W48	 ELC04080 W48	 ELC04080 W48	 ELC04080 W120	 ELC04080 W120
 ELC04150 C704-3P	 ELC04148 C704-3P	 ELC04080 C704-3P	 ELC04080 C704-3P	 ELC04080 C704-3P	 ELC04080 C704-3P	 ELC04080 C704-120P	 ELC04080 C704-120P
 ELC04150 W3P	 ELC04148 W3P	 ELC04080 W4P	 ELC04080 W4P	 ELC04080 W4P	 ELC04080 W4P	 ELC04080 W12P	 ELC04080 18 AWG C900-307-18147 ELC04080 18 AWG C900-308-18147

AMP

 ELC04025 white 1-350867-0	 ELC04125 white 1-480698-0	 ELC04150 white 1-480700-0	 ELC04225 white 1-480702-0	 ELC04325 white 1-480704-0	 ELC04425 white 1-480706-0	 ELC04530 white 1-480708-0	 ELC04531 red 1-480710-2	 ELC04600 white 1-480710-0	 ELT02700 350536-1
 ELC05025 white 770421-1	 ELC05125 white 1-480699-0	 ELC05150 white 1-480701-0	 ELC05225 white 1-480703-0	 ELC05325 white 1-480705-0	 ELC05425 white 1-480707-0	 ELC05525 white 1-480709-0	 ELC05526 red 1-480709-2	 ELC05600 white 1-480711-0	 ELT02400 350218-1

### 7.2.8 CONNECTOR CRIMP TOOLS



**Crimp tool for Deutsch connectors**

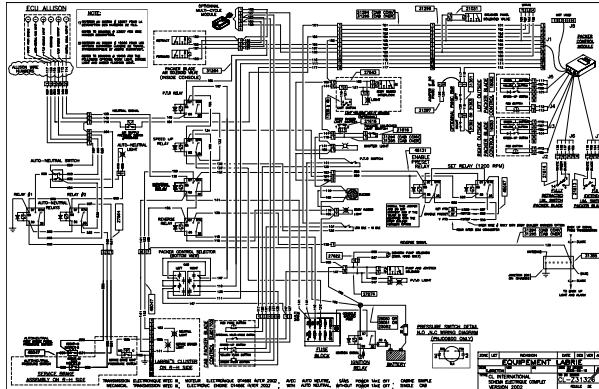


**Crimp tool for AMP connectors**

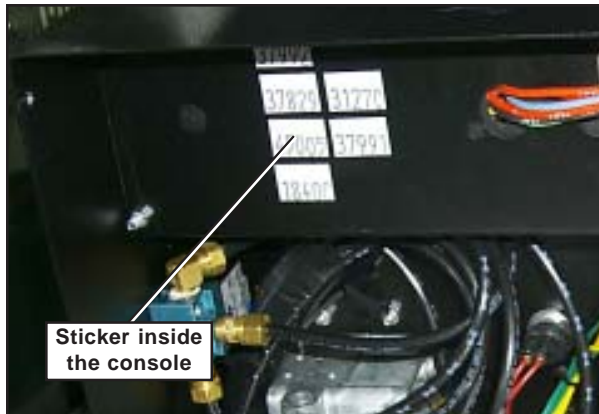
## 7.2.9 ELECTRICAL SCHEMATICS

### Note:

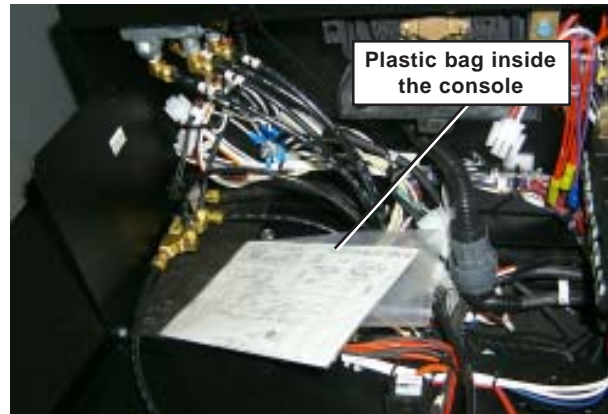
Each vehicle has specific electrical schematics depending on the options and the vehicle configuration. The schematics are identified by a number on the bottom right corner. These numbers are printed on a sticker found on the inside wall of the console installed in the middle of the cab. Also, a set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



Schematic  
number



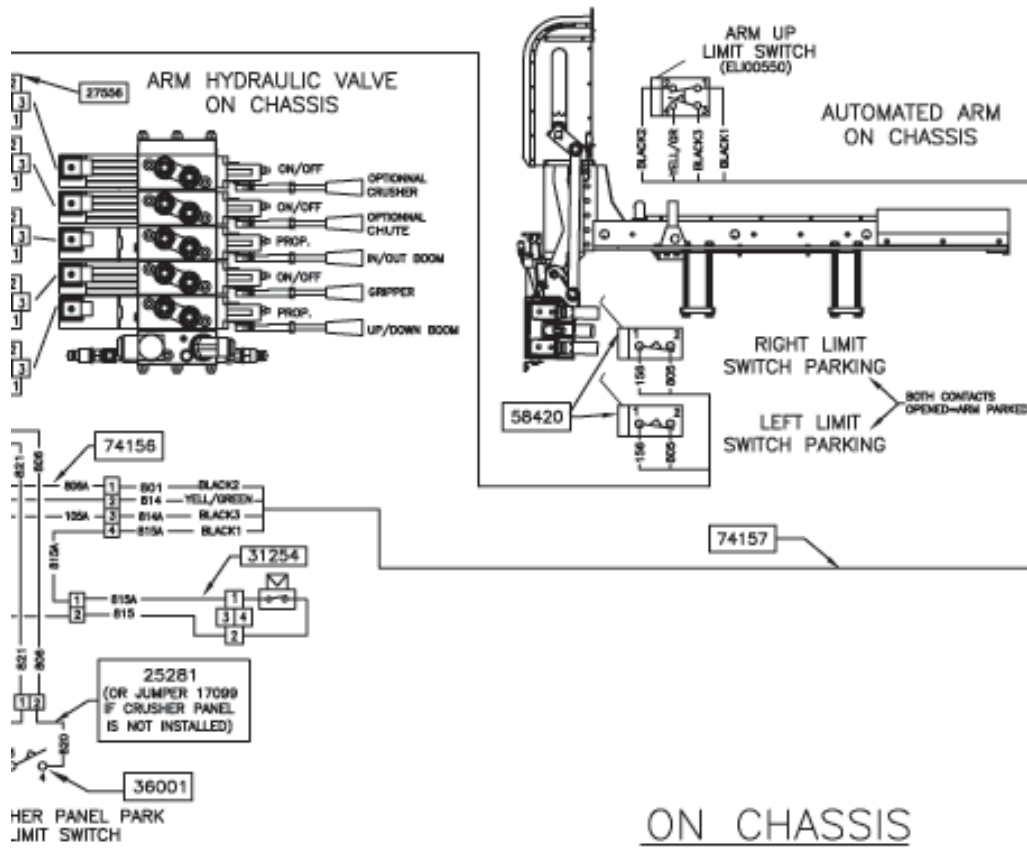
Sticker inside  
the console



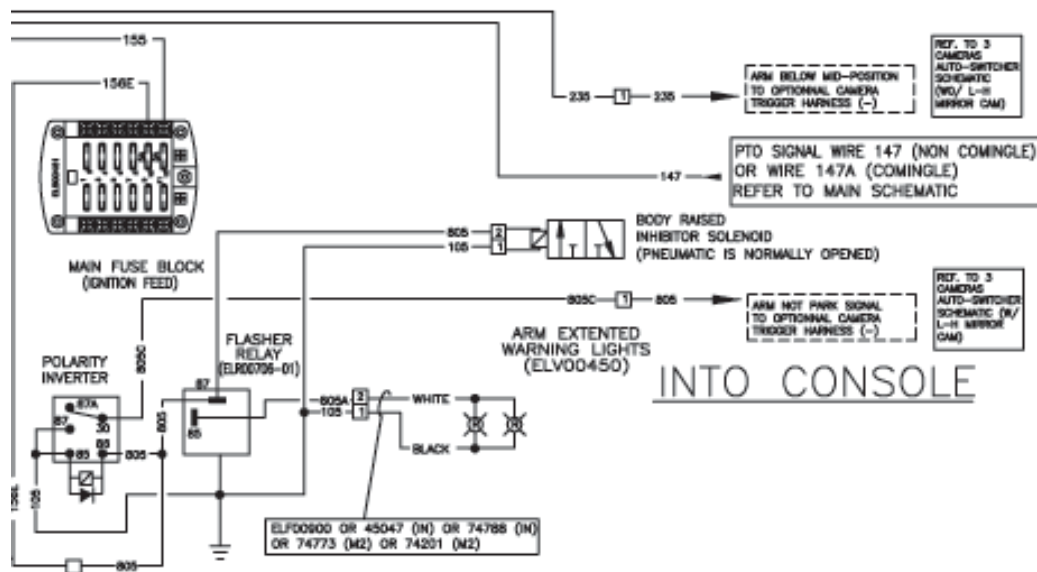
Plastic bag inside  
the console

**NOTE:** Please call Labrie to order specific schematics.





ON CHASSIS



INTO CONSOLE

