

Table 6-13. Diagnostic Trouble Code Chart

DTC	Flash Code	Sequence	Fault Message	Fault Description	Check
8222	8	2	LSS STRAIN GAUGE 1 - STAGNANT	<p>The control system has determined that the strain gauge 1 reading in the load sensor is stagnant (not changing).</p> <p>If the platform is not considered to be overloaded boom functions will be restricted to creep.</p> <p>If DTC 8223 is active in combination with DTC 8222 the machine will assume the platform is overloaded.</p> <p>This fault, once annunciated is latched within a given key cycle.</p>	Possible sensor hardware issue.
8223	8	2	LSS STRAIN GAUGE 2 - STAGNANT	<p>The control system has determined that the strain gauge 2 reading in the load sensor is stagnant (not changing).</p> <p>If the platform is not considered to be overloaded boom functions will be restricted to creep.</p> <p>If DTC 8222 is active in combination with DTC 8223 the machine will assume the platform is overloaded.</p> <p>This fault, once annunciated is latched within a given key cycle.</p>	Possible sensor hardware issue.
8224	8	2	LSS STRAIN GAUGE 1 - OUT OF RANGE LOW	<p>The shear beam is reporting an out of range low issue with the strain gauge 1 reading.</p> <p>If the platform is not overloaded the machine will be placed in to creep.</p> <p>If DTC 8225 is also active the machine will assume the platform is overloaded.</p> <p>This fault, once annunciated is latched within a given key cycle.</p>	Possible sensor hardware issue.
8225	8	2	LSS STRAIN GAUGE 2 - OUT OF RANGE LOW	<p>The shear beam is reporting an out of range low issue with the strain gauge 2 reading.</p> <p>If the platform is not overloaded the machine will be placed in to creep.</p> <p>If DTC 8224 is also active the machine will assume the platform is overloaded.</p> <p>This fault, once annunciated is latched within a given key cycle.</p>	Possible sensor hardware issue.

Table 6-13. Diagnostic Trouble Code Chart

DTC	Flash Code	Sequence	Fault Message	Fault Description	Check
8226	8	2	LSS STRAIN GAUGE 1 - OUT OF RANGE HIGH	<p>The shear beam is reporting an out of range high issue with the strain gauge 1 reading.</p> <p>If the platform is not overloaded the machine will be placed in to creep.</p> <p>If DTC 8227 is also active the machine will assume the platform is overloaded.</p> <p>This fault, once annunciated is latched within a given key cycle.</p>	Possible sensor hardware issue.
8227	8	2	LSS STRAIN GAUGE 2 - OUT OF RANGE HIGH	<p>The shear beam is reporting an out of range high issue with the strain gauge 2 reading.</p> <p>If the platform is not overloaded the machine will be placed in to creep.</p> <p>If DTC 8226 is also active the machine will assume the platform is overloaded.</p> <p>This fault, once annunciated is latched within a given key cycle.</p>	Possible sensor hardware issue.
8228	8	2	LSS STRAIN GAUGE 1 - INITIALIZATION ERROR	<p>The shear beam is reporting an initialization issue with the strain gauge 1 sensor.</p> <p>If the platform is not overloaded the machine will be placed in to creep.</p> <p>If DTC 8229 is also active the machine will assume the platform is overloaded.</p> <p>This fault, once annunciated is latched within a given key cycle.</p>	Possible sensor hardware issue.
8229	8	2	LSS STRAIN GAUGE 2 - INITIALIZATION ERROR	<p>The shear beam is reporting an initialization issue with the strain gauge 2 sensor.</p> <p>If the platform is not overloaded the machine will be placed in to creep.</p> <p>If DTC 8228 is also active the machine will assume the platform is overloaded.</p> <p>This fault, once annunciated is latched within a given key cycle.</p>	Possible sensor hardware issue.

SECTION 6 - JLG CONTROL SYSTEM

Table 6-13. Diagnostic Trouble Code Chart

DTC	Flash Code	Sequence	Fault Message	Fault Description	Check
8230	8	2	LSS STRAIN GAUGE 1 - NOT CALIBRATED	<p>The shear beam is reporting a calibration issue with the strain gauge 1 sensor.</p> <p>If the platform is not overloaded the machine will be placed in to creep.</p> <p>If DTC 8231 is also active the machine will assume the platform is overloaded.</p> <p>This fault, once annunciated is latched within a given key cycle.</p>	Possible sensor hardware issue.
823	8	2	LSS CELL #3 ERROR823823		
8231	8	2	LSS STRAIN GAUGE 2 - NOT CALIBRATED	<p>The shear beam is reporting a calibration issue with the strain gauge 2 sensor.</p> <p>If the platform is not overloaded the machine will be placed in to creep.</p> <p>If DTC 8230 is also active the machine will assume the platform is overloaded.</p> <p>This fault, once annunciated is latched within a given key cycle.</p>	Possible sensor hardware issue.
8232	8	2	LSS STRAIN GAUGE 1 - SENSOR DEFECT	<p>The shear beam is reporting a sensor defect issue with the strain gauge 1 sensor.</p> <p>If the platform is not overloaded the machine will be placed in to creep.</p> <p>If DTC 8233 is also active the machine will assume the platform is overloaded.</p> <p>This fault, once annunciated is latched within a given key cycle.</p>	Possible sensor hardware issue.
8233	8	2	LSS STRAIN GAUGE 2 - SENSOR DEFECT	<p>The shear beam is reporting a sensor defect issue with the strain gauge 2 sensor.</p> <p>If the platform is not overloaded the machine will be placed in to creep.</p> <p>If DTC 8232 is also active the machine will assume the platform is overloaded.</p> <p>This fault, once annunciated is latched within a given key cycle.</p>	Possible sensor hardware issue.

Table 6-13. Diagnostic Trouble Code Chart

DTC	Flash Code	Sequence	Fault Message	Fault Description	Check
8234	8	2	LSS STRAIN GAUGE 1 - NOT INSTALLED	<p>The shear beam is reporting a not installed issue with the strain gauge 1 sensor.</p> <p>If the platform is not overloaded the machine will be placed in to creep.</p> <p>If DTC 8235 is also active the machine will assume the platform is overloaded.</p> <p>This fault, once annunciated is latched within a given key cycle.</p>	Possible sensor hardware issue.
8235	8	2	LSS STRAIN GAUGE 2 - NOT INSTALLED	<p>The shear beam is reporting a not installed issue with the strain gauge 2 sensor.</p> <p>If the platform is not overloaded the machine will be placed in to creep.</p> <p>If DTC 8234 is also active the machine will assume the platform is overloaded.</p> <p>This fault, once annunciated is latched within a given key cycle.</p>	Possible sensor hardware issue.
8236	8	2	LSS NOT DETECTING CHANGE	<p>The control system has determined that the load sensor reading has not deviated by more than 1lb for 5s while operating drive or boom functions at greater than creep speed.</p> <p>This fault, once annunciated is latched within a given key cycle.</p>	Possible sensor hardware issue.
8237	8	2	LSS STRAIN GAUGE 1 - A/D DEFECT	<p>The shear beam is reporting an internal issue with the strain gauge 1 sensor.</p> <p>If the platform is not overloaded the machine will be placed in to creep.</p> <p>If DTC 8238 is also active the machine will assume the platform is overloaded.</p> <p>This fault, once annunciated is latched within a given key cycle.</p>	Possible sensor hardware issue.
8238	8	2	LSS STRAIN GAUGE 2 - A/D DEFECT	<p>The shear beam is reporting an internal issue with the strain gauge 2 sensor.</p> <p>If the platform is not overloaded the machine will be placed in to creep.</p> <p>If DTC 8237 is also active the machine will assume the platform is overloaded.</p> <p>This fault, once annunciated is latched within a given key cycle.</p>	Possible sensor hardware issue.

SECTION 6 - JLG CONTROL SYSTEM

Table 6-13. Diagnostic Trouble Code Chart

DTC	Flash Code	Sequence	Fault Message	Fault Description	Check
824	8	2	LSS CELL #4 ERROR824824		
825	8	2	LSS HAS NOT BEEN CALIBRATED	The load sensing system is configured but has not been calibrated. The machine will assume the platform is overloaded.	Calibrate the load sensing system.
826	8	2	RUNNING AT CREEP - PLATFORM OVERLOADED	All functions at creep, the Load Sensing System indicates the Platform is overloaded AND is configured to warn only while the Platform is overloaded.	
827	8	2	DRIVE & BOOM PREVENTED - PLATFORM OVERLOADED	Driving and boom functions are not possible while the Load Sensing System indicates the Platform is overloaded AND is configured to prevent drive and boom functions while the Platform is overloaded.	
828	8	2	LIFT UP & TELE OUT PREVENTED - PLATFORM OVERLOADED	Lift up and telescope out are not possible while the Load Sensing System indicates the Platform is overloaded AND is configured to prevent Lift up and telescope out while the Platform is overloaded.	
830	8	3	<<< PLATFORM LEVELING >>>		
831	8	3	PLATFORM LEVELING OVERRIDE ON	Platform Leveling forced on with Access Level 0 selection.	
832	8	3	PLATFORM LEVELING OVERRIDE OFF	Platform Leveling forced off with Access Level 0 selection.	
833	8	3	PLATFORM LEVEL UP CRACKPOINT - NOT CALIBRATED	The Platform Level Up Valve Crackpoint has not been calibrated.	- Electronic leveling system equipped vehicles only.
834	8	3	PLATFORM LEVEL DOWN CRACKPOINT - NOT CALIBRATED	The Platform Level Down Valve Crackpoint has not been calibrated.	- Electronic leveling system equipped vehicles only.
837	8	3	PLATFORM LEVEL SENSOR #1 - SHORT TO BATTERY	There is a Short to Battery to the Platform Level Sensor #1.	- Electronic leveling system equipped vehicles only.
838	8	3	PLATFORM LEVEL SENSOR #1 - SHORT TO GROUND OR OPEN CIRCUIT	There is a Short to Ground or an Open Circuit to the Platform Level Sensor #1.	- Electronic leveling system equipped vehicles only.
8311	8	3	PLATFORM LEVEL SENSOR #2 - SHORT TO BATTERY	There is a Short to Battery to the Platform Level Sensor #2.	- Electronic leveling system equipped vehicles only.
8312	8	3	PLATFORM LEVEL SENSOR #2 - SHORT TO GROUND OR OPEN CIRCUIT	There is a Short to Ground or an Open Circuit to the Platform Level Sensor #2.	- Electronic leveling system equipped vehicles only.
8313	8	3	PLATFORM LEVEL SENSOR #1 - REFERENCE VOLTAGE OUT OF RANGE	Platform Level Sensor #1 reference voltage is outside acceptable range (4.9 to 5.1 volts).	- Electronic leveling system equipped vehicles only.
8314	8	3	PLATFORM LEVEL SENSOR #2 - REFERENCE VOLTAGE OUT OF RANGE	Platform Level Sensor #2 reference voltage is outside acceptable range (4.9 to 5.1 volts).	- Electronic leveling system equipped vehicles only.
8315	8	3	PLATFORM LEVELING SENSOR - DISAGREEMENT	The Control System reads the sensor values at power-up. The fault is triggered when there is a ± 5 degree difference from the initial reading.	- Electronic leveling system equipped vehicles only.
8316	8	3	PLATFORM LEVEL SENSOR #1 - COMMUNICATIONS LOST	Platform Level Sensor #1 serial communication lost.	

Table 6-13. Diagnostic Trouble Code Chart

DTC	Flash Code	Sequence	Fault Message	Fault Description	Check
8317	8	3	PLATFORM LEVEL SENSOR #2 - COMMUNICATIONS LOST	Platform Level Sensor #2 serial communication lost.	
8318	8	3	PLATFORM LEVELING SYSTEM TIMEOUT	The Platform was unable to maintain desired level within range for the allotted time.	
8319	8	3	JIB LEVEL SENSOR #1 - OUT OF RANGE LOW		
8320	8	3	JIB LEVEL SENSOR #1 - OUT OF RANGE HIGH		
8321	8	3	JIB LEVEL SENSOR #2 - OUT OF RANGE LOW		
8322	8	3	JIB LEVEL SENSOR #2 - OUT OF RANGE HIGH		
8323	8	3	JIB LEVEL SENSORS - NOT CALIBRATED		
8324	8	3	JIB LEVEL SENSORS - DISAGREEMENT		
8325	8	3	JIB SWING SENSOR #1 - OUT OF RANGE LOW		
8326	8	3	JIB SWING SENSOR #1 - OUT OF RANGE HIGH		
8327	8	3	JIB SWING SENSOR #2 - OUT OF RANGE LOW		
8328	8	3	JIB SWING SENSOR #2 - OUT OF RANGE HIGH		
8329	8	3	JIB SWING SENSORS - NOT CALIBRATED		
8330	8	3	JIB SWING SENSORS - DISAGREEMENT		
8331	8	3	JIB LOCK PIN SENSOR - DISAGREEMENT		
8332	8	3	JIB TRANSPORT SENSOR #1 - DISAGREEMENT		
8333	8	3	JIB TRANSPORT SENSOR #2 - DISAGREEMENT		
8334	8	3	JIB LIFT ANGLE SENSOR - NOT CALIBRATED		
8335	8	3	JIB LEVEL UP CRACKPOINT - NOT CALIBRATED		
8336	8	3	JIB LEVEL DOWN CRACKPOINT - NOT CALIBRATED		
8337	8	3	JIB LEVELING SYSTEM TIMEOUT		
8338	8	3	WRONG JIB LOCK PIN RESPONSE		
8339	8	3	PLATFORM LEVEL ANGLE SENSOR - NOT CALIBRATED		
840	8	4	<<< ENVELOPE >>>		
841	8	4	BOOM ANGLE SENSOR DISAGREEMENT	There is a disagreement between the Boom Angle Sensors.	- Envelope Control equipped vehicles only.
842	8	4	BOOM LENGTH SWITCH FAILED	The Boom Length Switches are reporting the same state.	- Envelope Control equipped vehicles only.
843	8	4	BOOM LENGTH SWITCH/SENSOR DISAGREEMENT	There is a disagreement between the Boom Length Switch and the Boom Length Sensor.	- Envelope Control equipped vehicles only.
844	8	4	BOOM LENGTH SENSOR NOT DETECTING LENGTH CHANGE	The Boom Length Sensor is not changing during a boom telescope command.	- Envelope Control equipped vehicles only.
845	8	4	BOOM LENGTH SENSOR - OUT OF RANGE HIGH	Boom Length Sensor out of range high.	- Envelope Control equipped vehicles only.
846	8	4	BOOM LENGTH SENSOR - OUT OF RANGE LOW	Boom Length Sensor out of range low.	- Envelope Control equipped vehicles only.

SECTION 6 - JLG CONTROL SYSTEM

Table 6-13. Diagnostic Trouble Code Chart

DTC	Flash Code	Sequence	Fault Message	Fault Description	Check
847	8	4	BOOM LENGTH SENSOR - VALUE OUT OF RANGE HIGH	Boom Length out of range high.	- Envelope Control equipped vehicles only.
848	8	4	BOOM LENGTH SENSOR - VALUE OUT OF RANGE LOW	Boom Length out of range low.	- Envelope Control equipped vehicles only.
849	8	4	BOOM ANGLE SENSOR #1 - COMMUNICATIONS FAULT	Boom Angle Sensor #1 communications lost.	- Envelope Control equipped vehicles only.
8410	8	4	BOOM ANGLE SENSOR #2 - COMMUNICATIONS FAULT	Boom Angle Sensor #2 communications lost.	- Envelope Control equipped vehicles only.
8411	8	4	BOOM ANGLE SENSOR #1 - INVALID ANGLE	Boom Angle Sensor #1 out of range.	- Envelope Control equipped vehicles only.
8412	8	4	BOOM ANGLE SENSOR #2 - INVALID ANGLE	Boom Angle Sensor #2 out of range.	- Envelope Control equipped vehicles only.
8413	8	4	WRONG TELESCOPE RESPONSE	Boom telescope is moving in the opposite direction of the command.	- Envelope Control equipped vehicles only.
8414	8	4	WRONG LIFT RESPONSE	Boom lift is moving in the opposite direction of the command.	- Envelope Control equipped vehicles only.
8479	8	4	MAIN CYLINDER ANGLE SENSOR #1 - OUT OF RANGE LOW		
8480	8	4	MAIN CYLINDER ANGLE SENSOR #1 - OUT OF RANGE HIGH		
8492	8	4	MAIN CYLINDER ANGLE SENSOR #2 - OUT OF RANGE LOW		
8493	8	4	MAIN CYLINDER ANGLE SENSOR #2 - OUT OF RANGE HIGH		
8494	8	4	MAIN CYLINDER ANGLE SENSORS - DISAGREEMENT		
8495	8	4	TURN TABLE SENSOR #1 - FREQUENCY OUT OF RANGE LOW		
8496	8	4	TURN TABLE SENSOR #1 - FREQUENCY OUT OF RANGE HIGH		
8497	8	4	TURN TABLE SENSOR #2 - FREQUENCY OUT OF RANGE LOW		
8498	8	4	TURN TABLE SENSOR #2 - FREQUENCY OUT OF RANGE HIGH		
8499	8	4	CHASSIS TURN TABLE SENSORS - DISAGREEMENT		
84100	8	4	CHASSIS TURN TABLE SENSORS AND DRIVE ORIENTATION SWITCH - DISAGREEMENT		
84101	8	4	CHASSIS TURN TABLE SENSORS - NOT CALIBRATED		
84102	8	4	MAIN CYLINDER ANGLE SENSOR - NOT DETECTING CHANGE		
84103	8	4	JIB LEVEL ANGLE SENSOR - NOT DETECTING CHANGE		
84104	8	4	JIB LIFT ANGLE SENSOR - NOT DETECTING CHANGE		
84105	8	4	PLATFORM LEVEL ANGLE SENSOR - NOT DETECTING CHANGE		
84106	8	4	JIB LEVEL MOVEMENT WITHOUT COMMAND		

Table 6-13. Diagnostic Trouble Code Chart

DTC	Flash Code	Sequence	Fault Message	Fault Description	Check
84107	8	4	JIB LIFT MOVEMENT WITHOUT COMMAND		
84108	8	4	PLATFORM LEVEL MOVEMENT WITHOUT COMMAND		
84151	8	4	TOWER LENGTH SENSOR 1 FAULTY	<p>There are three ways (a, b, c) that these faults can be set:</p> <p>(a) If the length sensor voltage changes more than 0.0168 volts within 40 milliseconds a counter for the respective length sensor shall be incremented to aid service in diagnosing bad sensor performance. The counter below shall be incremented anytime the description above is met. It is cleared/reset by a power cycle TwrLenSnsr(1/ 2)FaultCounter_PowerCycle > 30</p> <p>(b) The counter below shall be incremented every time TwrLenSnsr(1/ 2)FaultCounter_PowerCycle (described above) reached its threshold. This value is stored in EEPROM in order to track the history of the issue. (A successful Boom Sensor Calibration will reset this counter – this is reflected in the boom sensor calibration document) TwrLenSnsr(1/2)FaultCounter_EEPROM > 3</p> <p>(c) The fault counter below shall be incremented every time the trigger condition described in section (a) is observed during certain steps during Boom Sensor Calibration (please see that document section for further details) TwrLenSnsr(1/2)FaultCounter_BmSnsrCal > 20</p> <p>If (a) or (b) or (c) are met (fault triggered) the machine will be put into Electrical Retrieval Fault, once triggered, is maintained within a given key-cycle Machine will be trapped in transport</p>	Check Hardware, Wiring

Table 6-13. Diagnostic Trouble Code Chart

DTC	Flash Code	Sequence	Fault Message	Fault Description	Check
84152	8	4	TOWER LENGTH SENSOR 2 FAULTY	<p>There are three ways (a, b, c) that these faults can be set:</p> <p>(a) If the length sensor voltage changes more than 0.0168 volts within 40 milliseconds a counter for the respective length sensor shall be incremented to aid service in diagnosing bad sensor performance. The counter below shall be incremented anytime the description above is met. It is cleared/reset by a power cycle TwrLenSnsr(1/2)FaultCounter_PowerCycle > 30</p> <p>(b) The counter below shall be incremented every time TwrLenSnsr(1/2)FaultCounter_PowerCycle (described above) reached its threshold. This value is stored in EEPROM in order to track the history of the issue. (A successful Boom Sensor Calibration will reset this counter – this is reflected in the boom sensor calibration document) TwrLenSnsr(1/2)FaultCounter_EEPROM > 3</p> <p>(c) The fault counter below shall be incremented every time the trigger condition described in section (a) is observed during certain steps during Boom Sensor Calibration (please see that document section for further details) TwrLenSnsr(1/2)FaultCounter_BmSnsrCal > 20</p> <p>If (a) or (b) or (c) are met (fault triggered) the machine will be put into Electrical Retrieval Fault, once triggered, is maintained within a given key-cycle Machine will be trapped in transport</p>	Check Hardware, Wiring

Table 6-13. Diagnostic Trouble Code Chart

DTC	Flash Code	Sequence	Fault Message	Fault Description	Check
84153	8	4	BOOM LENGTH SENSOR 1 FAULTY	<p>There are three ways (a, b, c) that these faults can be set:</p> <p>(a) If the length sensor voltage changes more than 0.0168 volts within 40 milliseconds a counter for the respective length sensor shall be incremented to aid service in diagnosing bad sensor performance. The counter below shall be incremented anytime the description above is met. It is cleared/reset by a power cycle BmLenSnsr(1/2)FaultCounter_PowerCycle > 30</p> <p>(b) The counter below shall be incremented every time BmLenSnsr(1/2)FaultCounter_PowerCycle (described above) reached its threshold. This value is stored in EEPROM in order to track the history of the issue. (A successful Boom Sensor Calibration will reset this counter – this is reflected in the boom sensor calibration document) BmLenSnsr(1/2)FaultCounter_EEPROM > 3</p> <p>(c) The fault counter below shall be incremented every time the trigger condition described in section (a) is observed during certain steps during Boom Sensor Calibration (please see that document section for further details) BmLenSnsr(1/2)FaultCounter_BmSnsrCal > 20</p> <p>If (a) or (b) or (c) are met (fault triggered) the machine will be put into Electrical Retrieval Fault, once triggered, is maintained within a given key-cycle Machine will be trapped in transport</p>	Check wiring and hardware

Table 6-13. Diagnostic Trouble Code Chart

DTC	Flash Code	Sequence	Fault Message	Fault Description	Check
84154	8	4	BOOM LENGTH SENSOR 2 FAULTY	<p>There are three ways (a, b, c) that these faults can be set:</p> <p>(a) If the length sensor voltage changes more than 0.0168 volts within 40 milliseconds a counter for the respective length sensor shall be incremented to aid service in diagnosing bad sensor performance. The counter below shall be incremented anytime the description above is met. It is cleared/reset by a power cycle BmLenSnsr(1/2)FaultCounter_PowerCycle > 30</p> <p>(b) The counter below shall be incremented every time BmLenSnsr(1/2)FaultCounter_PowerCycle (described above) reached its threshold. This value is stored in EEPROM in order to track the history of the issue. (A successful Boom Sensor Calibration will reset this counter – this is reflected in the boom sensor calibration document) BmLenSnsr(1/2)FaultCounter_EEPROM > 3</p> <p>(c) The fault counter below shall be incremented every time the trigger condition described in section (a) is observed during certain steps during Boom Sensor Calibration (please see that document section for further details) BmLenSnsr(1/2)FaultCounter_BmSnsrCal > 20</p> <p>If (a) or (b) or (c) are met (fault triggered) the machine will be put into Electrical Retrieval Fault, once triggered, is maintained within a given key-cycle Machine will be trapped in transport</p>	Check wiring and hardware
850	8	5	<<< MOMENT/LOAD PINS >>>		
851	8	5	MOMENT PIN - HORIZONTAL FORCE OUT OF RANGE	The Moment Pin horizontal force is out of range.	
852	8	5	MOMENT PIN - VERTICAL FORCE OUT OF RANGE	The Moment Pin vertical force is out of range.	
855	8	5	MOMENT PIN - SENSOR FAULT	The Moment Pin has reported a fault.	
857	8	5	NEW MOMENT PIN DETECTED	A new Moment Pin has been detected.	

Table 6-13. Diagnostic Trouble Code Chart

DTC	Flash Code	Sequence	Fault Message	Fault Description	Check
860	8	6	<<<STEERING/AXLE>>>		
861	8	6	RESTRICTED TO TRANSPORT - OSCILLATING AXLE PRESSURE SWITCH DIS- AGREEMENT	The Oscillating Axle Pressure Switch indicates pressure while not driving or does not indicate pressure while driving and restricted to transport.	- Electrically released Oscillated Axles equipped vehicles only.
862	8	6	AXLE EXTEND VALVE - SHORT TO BATTERY OR OPEN CIRCUIT	There is a Short to Battery or an Open Circuit to the Axle Extend Valve.	
863	8	6	AXLE EXTEND VALVE - SHORT TO GROUND	There is a Short to Ground to the Axle Extend Valve.	
864	8	6	AXLE RETRACT VALVE - SHORT TO BATTERY OR OPEN CIRCUIT	There is a Short to Battery or an Open Circuit to the Axle Retract Valve.	
865	8	6	AXLE RETRACT VALVE - SHORT TO GROUND	There is a Short to Ground to the Axle Retract Valve.	
866	8	6	RIGHT FRONT STEER RIGHT VALVE - SHORT TO BATTERY OR OPEN CIRCUIT	There is a Short to Battery or an Open Circuit to the Right Front Steer Right Valve.	
867	8	6	RIGHT FRONT STEER RIGHT VALVE - SHORT TO GROUND	There is a Short to Ground to the Right Front Steer Right Valve.	
868	8	6	RIGHT FRONT STEER LEFT VALVE - SHORT TO BATTERY OR OPEN CIRCUIT	There is a Short to Battery or an Open Circuit to the Right Front Steer Left Valve.	
869	8	6	RIGHT FRONT STEER LEFT VALVE - SHORT TO GROUND	There is a Short to Ground to the Right Front Steer Left Valve.	
8610	8	6	LEFT FRONT STEER RIGHT VALVE - SHORT TO BATTERY OR OPEN CIRCUIT	There is a Short to Battery or an Open Circuit to the Left Front Steer Right Valve.	
8611	8	6	LEFT FRONT STEER RIGHT VALVE - SHORT TO GROUND	There is a Short to Ground to the Left Front Steer Right Valve.	
8612	8	6	LEFT FRONT STEER LEFT VALVE - SHORT TO BATTERY OR OPEN CIRCUIT	There is a Short to Battery or an Open Circuit to the Left Front Steer Left Valve.	
8613	8	6	LEFT FRONT STEER LEFT VALVE - SHORT TO GROUND	There is a Short to Ground to the Left Front Steer Left Valve.	
8614	8	6	RIGHT REAR STEER RIGHT VALVE - SHORT TO BATTERY OR OPEN CIRCUIT	There is a Short to Battery or an Open Circuit to the Right Rear Steer Right Valve.	
8615	8	6	RIGHT REAR STEER RIGHT VALVE - SHORT TO GROUND	There is a Short to Ground to the Right Rear Steer Right Valve.	
8616	8	6	RIGHT REAR STEER LEFT VALVE - SHORT TO BATTERY OR OPEN CIRCUIT	There is a Short to Battery or an Open Circuit to the Right Rear Steer Left Valve.	
8617	8	6	RIGHT REAR STEER LEFT VALVE - SHORT TO GROUND	There is a Short to Ground to the Right Rear Steer Left Valve.	
8618	8	6	LEFT REAR STEER RIGHT VALVE - SHORT TO BATTERY OR OPEN CIRCUIT	There is a Short to Battery or an Open Circuit to the Left Rear Steer Right Valve.	
8619	8	6	LEFT REAR STEER RIGHT VALVE - SHORT TO GROUND	There is a Short to Ground to the Left Rear Steer Right Valve.	
8620	8	6	LEFT REAR STEER LEFT VALVE - SHORT TO BATTERY OR OPEN CIRCUIT	There is a Short to Battery or an Open Circuit to the Left Rear Steer Left Valve.	
8621	8	6	LEFT REAR STEER LEFT VALVE - SHORT TO GROUND	There is a Short to Ground to the Left Rear Steer Left Valve.	
8622	8	6	FRONT RIGHT STEER SENSOR - DECOUPLED	The Front Right Steer Sensor has become decoupled.	

SECTION 6 - JLG CONTROL SYSTEM

Table 6-13. Diagnostic Trouble Code Chart

DTC	Flash Code	Sequence	Fault Message	Fault Description	Check
8623	8	6	FRONT LEFT STEER SENSOR - DECOUPLED	The Front Left Steer Sensor has become decoupled.	
8624	8	6	REAR RIGHT STEER SENSOR - DECOUPLED	The Rear Right Steer Sensor has become decoupled.	
8625	8	6	REAR LEFT STEER SENSOR - DECOUPLED	The Rear Left Steer Sensor has become decoupled.	
8626	8	6	FRONT LEFT STEER SENSOR - NOT RESPONDING	The Front Right Steer Sensor is not responding to steer commands.	
8627	8	6	FRONT RIGHT STEER SENSOR - NOT RESPONDING	The Front Left Steer Sensor is not responding to steer commands.	
8628	8	6	REAR LEFT STEER SENSOR - NOT RESPONDING	The Rear Right Steer Sensor is not responding to steer commands.	
8629	8	6	REAR RIGHT STEER SENSOR - NOT RESPONDING	The Rear Left Steer Sensor is not responding to steer commands.	
8630	8	6	FRONT RIGHT STEER SENSOR - SHORT TO GROUND OR OPEN CIRCUIT	There is a Short to Ground or an Open Circuit to the Front Right Steer Sensor.	
8631	8	6	FRONT RIGHT STEER SENSOR - SHORT TO BATTERY	There is a Short to Battery to the Front Right Steer Sensor.	
8632	8	6	FRONT LEFT STEER SENSOR - SHORT TO GROUND OR OPEN CIRCUIT	There is a Short to Ground or an Open Circuit to the Front Left Steer Sensor.	
8633	8	6	FRONT LEFT STEER SENSOR - SHORT TO BATTERY	There is a Short to Battery to the Front Left Steer Sensor.	
8634	8	6	REAR RIGHT STEER SENSOR - SHORT TO GROUND OR OPEN CIRCUIT	There is a Short to Ground or an Open Circuit to the Rear Right Steer Sensor.	
8635	8	6	REAR RIGHT STEER SENSOR - SHORT TO BATTERY	There is a Short to Battery to the Rear Right Steer Sensor.	
8636	8	6	REAR LEFT STEER SENSOR - SHORT TO GROUND OR OPEN CIRCUIT	There is a Short to Ground or an Open Circuit to the Rear Left Steer Sensor.	
8637	8	6	REAR LEFT STEER SENSOR - SHORT TO BATTERY	There is a Short to Battery to the Rear Left Steer Sensor.	
8651	8	6	ENGINE SHUTDOWN - AXLE LOCKOUT VALVE FAULT	Engine Start is prevented while there is an Oscillating Axle fault and vehicle is out of transport position	

Table 6-13. Diagnostic Trouble Code Chart

DTC	Flash Code	Sequence	Fault Message	Fault Description	Check	
8670	8	6	RIGHT FRONT STEER RIGHT VALVE - OPEN CIRCUIT	Open Circuit detected	Check wiring	
8671	8	6	RIGHT FRONT STEER RIGHT VALVE - SHORT TO BATTERY	Short to Battery detected		
8672	8	6	RIGHT FRONT STEER LEFT VALVE - OPEN CIRCUIT	Open Circuit detected		
8673	8	6	RIGHT FRONT STEER LEFT VALVE - SHORT TO BATTERY	Short to Battery detected		
8674	8	6	LEFT FRONT STEER RIGHT VALVE - OPEN CIRCUIT	Open Circuit detected		
8675	8	6	LEFT FRONT STEER RIGHT VALVE - SHORT TO BATTERY	Short to Battery detected		
8676	8	6	LEFT FRONT STEER LEFT VALVE - OPEN CIRCUIT	Open Circuit detected		
8677	8	6	LEFT FRONT STEER LEFT VALVE - SHORT TO BATTERY	Short to Battery detected		
8678	8	6	RIGHT REAR STEER RIGHT VALVE - OPEN CIRCUIT	Open Circuit detected		
8679	8	6	RIGHT REAR STEER RIGHT VALVE - SHORT TO BATTERY	Short to Battery detected		
8680	8	6	RIGHT REAR STEER LEFT VALVE - OPEN CIRCUIT	Open Circuit detected		
8681	8	6	RIGHT REAR STEER LEFT VALVE - SHORT TO BATTERY	Short to Battery detected		
8682	8	6	LEFT REAR STEER RIGHT VALVE - OPEN CIRCUIT	Open Circuit detected		
8683	8	6	LEFT REAR STEER RIGHT VALVE - SHORT TO BATTERY	Short to Battery detected		
8684	8	6	LEFT REAR STEER LEFT VALVE - OPEN CIRCUIT	Open Circuit detected		
8685	8	6	LEFT REAR STEER LEFT VALVE - SHORT TO BATTERY	Short to Battery detected		
8686	8	6	FRONT LEFT AXLE - MOVEMENT WITHOUT COMMAND	Axle is set to extend position, no axle retract or extend is demanded by the operator and one or more of the axle sensors detects motion		Check sensor hardware and hydraulics
8687	8	6	FRONT RIGHT AXLE - MOVEMENT WITHOUT COMMAND			
8688	8	6	REAR RIGHT AXLE - MOVEMENT WITHOUT COMMAND			
8689	8	6	REAR LEFT AXLE - MOVEMENT WITHOUT COMMAND			
876	87	6	WIRE ROPE SERVICE REQUIRED	The Wire Rope Service Proximity sensor detects slack in wire ropes. Fault cleared when proximity switch detects no more slack in wire ropes.	Check wire ropes per torque spec. Check sensor wiring.	
990	9	9	<<< HARDWARE >>>			
991	9	9	LSS WATCHDOG RESET			
992	9	9	LSS EEPROM ERROR			

SECTION 6 - JLG CONTROL SYSTEM

Table 6-13. Diagnostic Trouble Code Chart

DTC	Flash Code	Sequence	Fault Message	Fault Description	Check
993	9	9	LSS INTERNAL ERROR - PIN EXCITATION		
994	9	9	LSS INTERNAL ERROR - DRDY MISSING FROM A/D		
998	9	9	EEPROM FAILURE - CHECK ALL SETTINGS	The Ground Module has reported an EEPROM failure.	
9910	9	9	FUNCTIONS LOCKED OUT - PLATFORM MODULE SOFTWARE VERSION IMPROPER	The Platform Module software version is not compatible with the rest of the system.	
9911	9	9	FUNCTIONS LOCKED OUT - LSS MODULE SOFTWARE VERSION IMPROPER		
9914	9	9	PLATFORM MODULE SOFTWARE UPDATE REQUIRED	The Platform Module software requires an updated.	
9915	9	9	CHASSIS TILT SENSOR NOT GAIN CALIBRATED	The Chassis Tilt Sensor gain calibration has been lost.	
9916	9	9	CHASSIS TILT SENSOR GAIN OUT OF RANGE	The Chassis Tilt Sensor gain calibration has become corrupted.	
9917	9	9	HIGH RESOLUTION A2D FAILURE - INTERRUPT LOST	The Platform Module has reported that its ADS1213 chip has stopped asserting its interrupt.	
9918	9	9	HIGH RESOLUTION A2D FAILURE - REINIT LIMIT	The Platform Module has reported that its ADS1213 chip had to be reset 3 or more times.	
9919	9	9	GROUND SENSOR REF VOLTAGE OUT OF RANGE	The Ground Module has reported that its sensor reference voltage is outside acceptable range.	- Not reported during power-up.
9920	9	9	PLATFORM SENSOR REF VOLTAGE OUT OF RANGE	The Platform Module has reported that its sensor reference voltage is outside acceptable range.	- Not reported during power-up.
9921	9	9	GROUND MODULE FAILURE - HIGH SIDE DRIVER CUTOFF FAULTY	The Ground Module has reported that its high side driver cutoff failed.	
9922	9	9	PLATFORM MODULE FAILURE - HWFS CODE 1	The Platform Module has reported that the V(Low) FET has failed.	
9923	9	9	GROUND MODULE FAILURE - HWFS CODE 1	The Ground Module has reported that the V(Low) FET has failed.	
9924	9	9	FUNCTIONS LOCKED OUT - MACHINE NOT CONFIGURED		
9925	9	9	FUNCTIONS LOCKED OUT - CHASSIS MODULE SOFTWARE VERSION IMPROPER	The Chassis Module software version is not compatible with the rest of the system.	
9926	9	9	FUNCTIONS LOCKED OUT - BLAM MODULE SOFTWARE VERSION IMPROPER	The BLAM software version is not compatible with the rest of the system.	
9927	9	9	GROUND MODULE CONSTANT DATA UPDATE REQUIRED	The Ground Module constant data requires an updated.	
9928	9	9	ENVELOPE CONTROL DISABLED	Envelope Control has been disabled by the user from Access Level 0.	- Envelope Control equipped vehicles only.
99282	9	9	GROUND DISPLAY SOFTWARE VERSION IS IMPROPER	The UGM has detected improper software version on the ground display. Fault cleared once software has been updated on the ground display	Verify Machine Setup is correct and ground display software version is at least P1.1 or greater

Table 6-13. Diagnostic Trouble Code Chart

DTC	Flash Code	Sequence	Fault Message	Fault Description	Check
99285	9	9	LSS - FACTORY CALIBRATION ERROR	The load sensor is reporting a factor calibration issue (internal error) The machine will assume the platform is overloaded. This fault, once annunciated is latched within a given key cycle.	Possible sensor hardware issue.
9929	9	9	MOMENT CONTROL DISABLED	Moment Control has been disabled by the user from Access Level 0.	- Envelope Control equipped vehicles only.
9930	9	9	STEER SENSORS NOT CALIBRATED	The Steer Sensors have not been calibrated.	
9931	9	9	BOOM SENSORS NOT CALIBRATED	The Boom Sensors have not been calibrated.	- BLAM equipped vehicles only.
9932	9	9	LIFT CRACKPOINTS NOT CALIBRATED	The Lift Crackpoints have not been calibrated.	
9933	9	9	TELESCOPE CRACKPOINTS NOT CALIBRATED	The Telescope Crackpoints have not been calibrated.	
9934	9	9	DRIVE CRACKPOINTS NOT CALIBRATED	The Drive Crackpoints have not been calibrated.	
9935	9	9	BLAM SENSOR SUPPLY OUT OF RANGE HIGH	The Boom Angle Sensors supply voltage is high.	- BLAM equipped vehicles only.
9936	9	9	BLAM SENSOR SUPPLY OUT OF RANGE LOW	The Boom Angle Sensors supply voltage is low.	- BLAM equipped vehicles only.
9937	9	9	LENGTH SENSOR REF VOLTAGE HIGH	The Boom Length Sensors supply voltage is high.	
9938	9	9	LENGTH SENSOR REF VOLTAGE LOW	The Boom Length Sensors supply voltage is low.	
9939	9	9	BLAM HIGH RES A/D FAILURE	The BLAM high resolution analog to digital converter has failed.	- BLAM equipped vehicles only.
9940	9	9	CHASSIS SENSOR SUPPLY OUT OF RANGE HIGH	The Chassis Sensors supply voltage is high.	
9941	9	9	CHASSIS SENSOR SUPPLY OUT OF RANGE LOW	The Chassis Sensors supply voltage is low.	
9944	9	9	CURRENT FEEDBACK GAINS OUT OF RANGE	The factory set current feedback gains are out of range.	
9945	9	9	CURRENT FEEDBACK CALIBRATION CHECKSUM INCORRECT	The factory set current feedback checksum is not correct.	
99155	9	9	JIB CONTROL MODULE - HIGH RESOLUTION A2D FAILURE		
99156	9	9	JIB CONTROL MODULE - HIGH RESOLUTION A2D REFERENCE LOW		
99157	9	9	JIB CONTROL MODULE - HIGH RESOLUTION A2D REFERENCE HIGH		
99158	9	9	PLATFORM LEVEL ANGLE SENSOR - INTERNAL ERROR		
99159	9	9	JIB LIFT ANGLE SENSOR - INTERNAL ERROR		

SECTION 6 - JLG CONTROL SYSTEM

Table 6-13. Diagnostic Trouble Code Chart

DTC	Flash Code	Sequence	Fault Message	Fault Description	Check
99160	9	9	FUNCTIONS LOCKED OUT - JIB CONTROL MODULE SOFTWARE VERSION IMPROPER		
99296	9	9	PLATFORM DISPLAY SOFTWARE VERSION IMPROPER	The UGM has detected improper software version on the platform display. Fault cleared once software has been updated on the platform display	Verify Machine Setup is correct and platform display software version is at least 1.6 or greater

Go to Discount-Equipment.com to order your parts

PARTS FINDER

**Search Website
by Part Number**



**Search Manual
Library For Parts
Manual & Lookup Part
Numbers – Purchase
or Request Quote**

A screenshot of the "Search Manuals" form. It includes fields for "Brand", "Model", "Serial", "Part Number", and "Quantity". There are also dropdown menus for "Year" and "Type". A "Search" button is at the bottom.

**Can't Find Part or
Manual? Request Help
by Manufacturer,
Model & Description**

A screenshot of the "Parts Order Form". It has a title "Parts Order Form" and a "Print" button. The form contains several sections: "Manufacturer", "Model", "Description", "Part Number", "Quantity", "Unit Price", "Total Price", "Tax", "Shipping", and "Notes". There are also checkboxes for "Request Quote" and "Purchase".

Discount-Equipment.com is your online resource for quality parts & equipment.

Florida: **561-964-4949** Outside Florida TOLL FREE: **877-690-3101**

Need parts?

Click on this link: <http://www.discount-equipment.com/category/5443-parts/> and choose one of the options to help get the right parts and equipment you are looking for. Please have the machine model and serial number available in order to help us get you the correct parts. If you don't find the part on the website or on once of the online manuals, please fill out the request form and one of our experienced staff members will get back to you with a quote for the right part that your machine needs.

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, , Stow, Wacker, Sakai, Mi-T- M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, Barreto, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment, ,AMida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, Small Line, Wanco, Yanmar

SECTION 7. BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

7.1 GENERAL

This section contains basic electrical information and schematics to be used for locating and correcting most of the operating problems which may develop. If a problem should develop which is not presented in this section or which is not corrected by listed corrective actions, technically qualified guidance should be obtained before proceeding with any maintenance.

NOTE: Some of the procedures/connectors shown in this section may not be applicable to all models.

7.2 MULTIMETER BASICS

A wide variety of multimeters or Volt Ohm Meters (VOM) can be used for troubleshooting your equipment. This section shows diagrams of a common, digital VOM configured for several different circuit measurements. Instructions for your VOM may vary. Please consult the meter operator's manual for more information.

Grounding

"Grounding the meter" means to take the black lead (which is connected to the COM (common) or negative port) and touch it to a good path to the negative side of the Voltage source.

Backprobing

To "backprobe" means to take the measurement by accessing a connector's contact on the same side as the wires, the back of the connector. Readings can be done while maintaining circuit continuity this way. If the connector is the sealed type, great care must be taken to avoid damaging the seal around the wire. It is best to use probes or probe tips specifically designed for this technique, especially on sealed connectors. Whenever possible insert probes into the side of the connector such that the test also checks both terminals of the connection. It is possible to inspect a connection within a closed connector by backprobing both sides of a connector terminal and measuring resistance. Do this after giving each wire a gentle pull to ensure the wires are still attached to the contact and contacts are seated in the connector.

Min/Max

Use of the "Min/Max" recording feature of some meters can help when taking measurements of intermittent conditions while alone. For example, you can read the Voltage applied to a solenoid when it is only operational while a switch, far from the solenoid and meter, is held down.

Polarity

Getting a negative Voltage or current reading when expecting a positive reading frequently means the leads are reversed. Check what reading is expected, the location of the signal and

that the leads are connected to the device under test correctly. Also check that the lead on the "COM" port goes to the Ground or negative side of the signal and the lead on the other port goes to the positive side of the signal.

Scale

M = Mega = 1,000,000 * (Displayed Number)

k = kilo = 1,000 * (Displayed Number)

m = milli = (Displayed Number) / 1,000

μ = micro = (Displayed Number) / 1,000,000

Example: 1.2 kW = 1200 W

Example: 50 mA = 0.05 A

Voltage Measurement

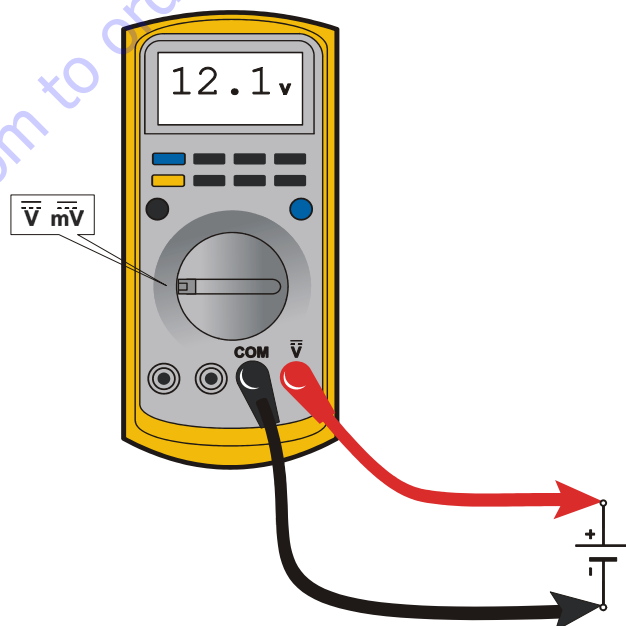


Figure 7-1. Voltage Measurement (DC)

- If meter is not auto ranging, set it to the correct range (See multimeter's operation manual)
- Use firm contact with meter leads

Resistance Measurement

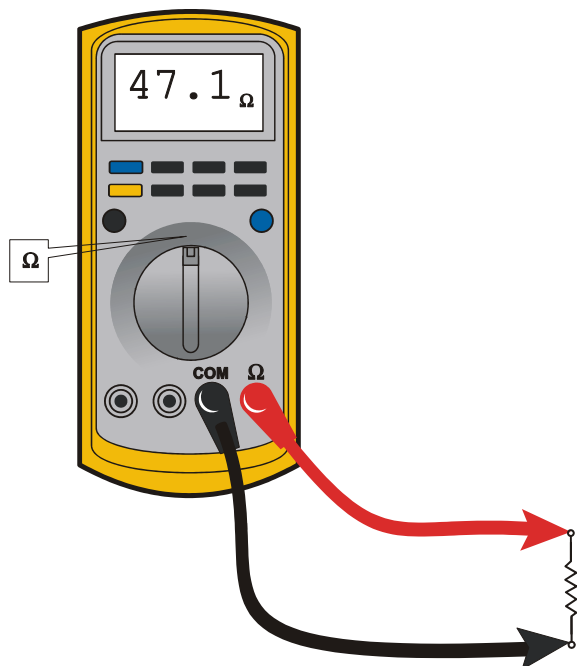


Figure 7-2. Resistance Measurement

- First test meter and leads by touching leads together. Resistance should read a short circuit (very low resistance)
- Circuit power must be turned OFF before testing resistance
- Disconnect component from circuit before testing
- If meter is not auto ranging, set it to the correct range (See multimeter's operation manual)
- Use firm contact with meter leads

Continuity Measurement

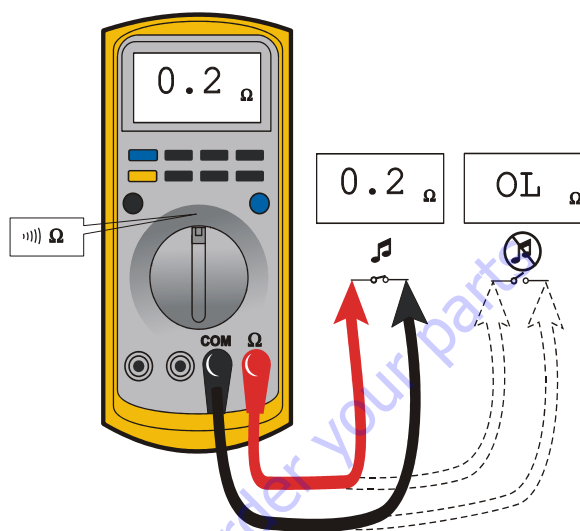


Figure 7-3. Continuity Measurement

- Some meters require a separate button press to enable audible continuity testing
- Circuit power must be turned OFF before testing continuity
- Disconnect component from circuit before testing
- Use firm contact with meter leads
- First test meter and leads by touching leads together. Meter should produce an audible alarm, indicating continuity

Current Measurement

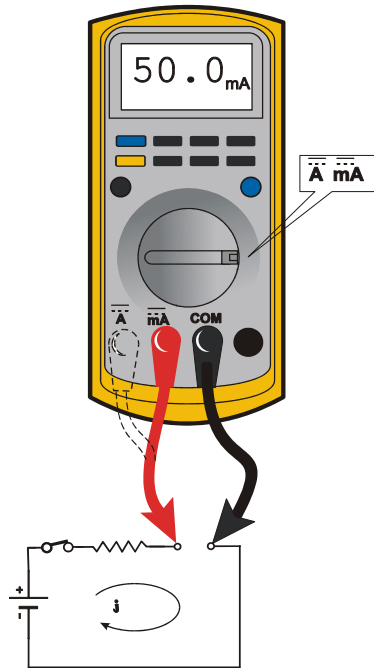


Figure 7-4. Current Measurement (DC)

- Set up the meter for the expected current range
- Be sure to connect the meter leads to the correct jacks for the current range you have selected
- If meter is not auto ranging, set it to the correct range (See multi meter's operation manual)
- Use firm contact with meter leads

7.3 APPLYING SILICONE DIELECTRIC COMPOUND TO ELECTRICAL CONNECTIONS

NOTE: This section is not applicable for battery terminals.

NOTICE

JLG P/N 0100048 DIELECTRIC GREASE (NOVAGARD G661) IS THE ONLY MATERIAL APPROVED FOR USE AS A DIELECTRIC GREASE.

NOTE: Do NOT apply dielectric grease to the following connections:

- Main Boom Rotary sensor connections (on Celesco Sensor),
- LSS Modules connections,
- Deutz EMR 2 ECM connection.

Silicone Dielectric Compound must be used on all electrical connections except for those mentioned above for the following reasons:

- To prevent oxidation at the mechanical joint between male and female pins.
- To prevent electrical malfunction caused by low level conductivity between pins when wet.

Use the following procedure to apply Silicone Dielectric Compound to the electrical connectors. This procedure applies to all plug connections not enclosed in a box. Silicone grease should not be applied to connectors with external seals.

1. To prevent oxidation, silicone grease must be packed completely around male and female pins on the inside of the connector prior to assembly. This is most easily achieved by using a syringe.

NOTE: Over a period of time, oxidation increases electrical resistance at the connection, eventually causing circuit failure.

2. To prevent shorting, silicone grease must be packed around each wire where they enter the outside of the connector housing. Also, silicone grease must be applied at the joint where the male and female connectors come together. Any other joints (around strain reliefs, etc.) where water could enter the connector should also be sealed.

NOTE: This condition is especially common when machines are pressure washed since the washing solution is much more conductive than water.

- Anderson connectors for the battery boxes and battery chargers should have silicone grease applied to the contacts only.

NOTE: *Curing-type sealants might also be used to prevent shorting and would be less messy, but would make future pin removal more difficult.*

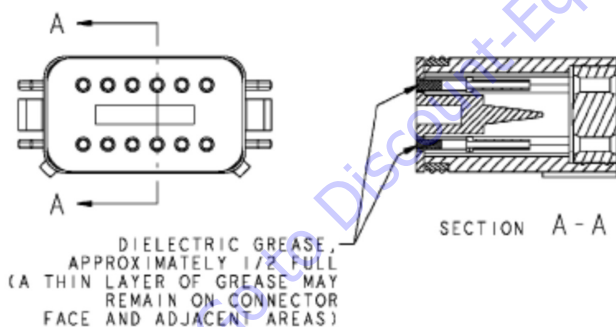
When applied to electrical connections, dielectric grease helps to prevent corrosion of electrical contacts and improper conductivity between contacts from moisture intrusion. Open and sealed connectors benefit from the application of dielectric grease.

Dielectric grease shall be applied to all electrical connectors at the time of connection (except those noted under Exclusions).

Installation of Dielectric Grease

Before following these instructions, refer to excluded connector types (See Exclusions below).

- Use dielectric grease in a tube for larger connection points or apply with a syringe for small connectors.
- Apply dielectric grease to the female contact (fill it approximately 1/2 full; see example below)
- Leave a thin layer of dielectric grease on the face of the connector
- Assemble the connector system immediately to prevent moisture ingress or dust contamination
- Pierce one of the unused wire seals prior to assembly if the connector system tends to trap air (i.e. AMP Seal) and then install a seal plug.



Deutsch HD, DT, DTM, DRC Series

The Deutsch connector system is commonly used for harsh environment interconnect. Follow the installation instructions.



AMP Seal

The AMP Seal connector system is used on the Control ADE Platform and Ground Modules.

Apply dielectric grease to the female contact. If trapped air prevents the connector from latching, pierce one of the unused wire seals. After assembly, install a seal plug (JLG #4460905) in that location to prevent moisture ingress.

Note that seal plugs may be installed by the wire harness manufacturer if an unused wire seal becomes compromised (wire inserted in the wrong cavity during assembly and then corrected).



Figure 7-5. Application to plug/male connector housing

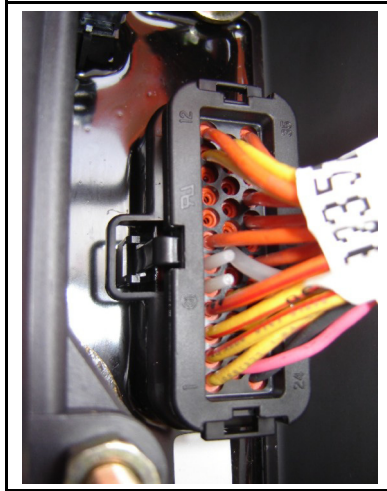


Figure 7-6. Use of Seal Plugs

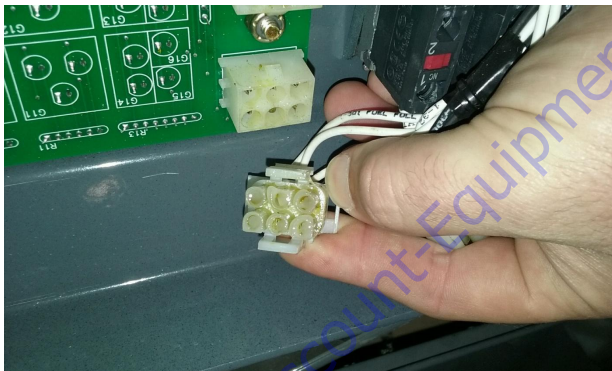
DIN Connectors

This connector is typically used on hydraulic valves. Follow the installation instructions.



AMP Mate-N-Lok

This connector system is widely used inside enclosures for general purpose interconnect. Follow the installation instructions.



Exclusions

A limited number of connectors do not benefit from dielectric grease, or may be permanently damaged by application. Dielectric grease may not be required in properly sealed enclosures.

BRAD HARRISON / PHOENIX CONTACT M12

The connector uses gold contact material to resist corrosion and an o-ring seal for moisture integrity. If dielectric grease is mistakenly applied to this connector system, the low-force contacts cannot displace the grease to achieve electrical contact. Once contaminated, there is no practical way to remove the dielectric grease (replacement of female contacts required). The JLG Load Sensing System and Rotary Angle Sensors are examples of components with the M12 connector system.



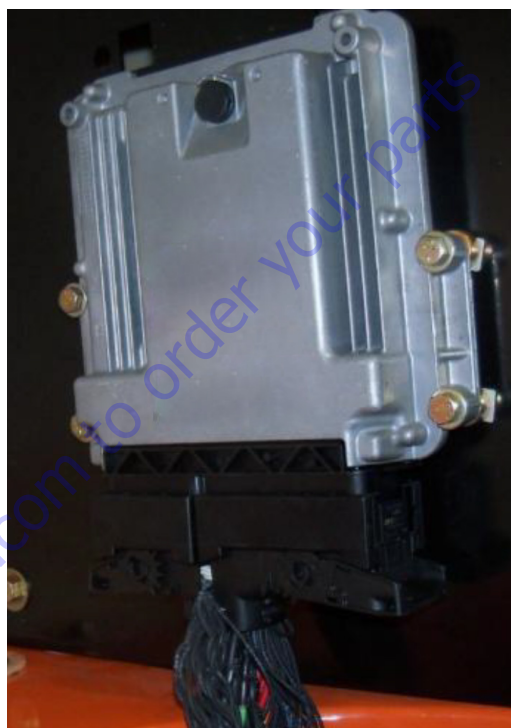
Figure 7-7. Brad-Harrison M12



Figure 7-8. Phoenix Contact M12

ENGINE CONTROL UNIT CONNECTORS

These connectors use back-seals for moisture integrity. However, the low-force contacts cannot displace dielectric grease and create electrical contact. It is possible to use solvents (i.e. contact cleaner or mineral spirits) for the removal of improperly applied dielectric grease. The EMR4 engine control module from Deutz employs this connector system (for example).



SEALED ENCLOSURES

Application of dielectric grease is not required in properly sealed enclosures. To meet criteria, the enclosure must be rated to at least IP66 (dust tight; protected from powerful jets of water). The enclosure must be fitted with a high quality, continuous gasket and all wiring must pass through cable entrances.



MIL-C-5015 SPEC CONNECTOR'S

Crown Connector Inc's recommendation is to not use dielectric grease for this series connector. For similar model series connectors, the manufacturer should be contacted for confirmation before applying dielectric grease. A typical application for this connector is on David Clark Intercom connections in Aerial Work Platforms.



MOLEX CMC SERIES CONNECTORS

The CMC connector family is a sealed, high-density connection system using matte-seal technology for CP 0.635 and 1.50 mm terminals. To guarantee IP6K7 and IP6K9 sealing, a seal plug option is used. However, the low-force contacts cannot displace dielectric grease and create electrical contact. It is possible to use solvents (i.e. contact cleaner or mineral spirits) for the removal of improperly applied dielectric grease. The flexbox control modules from JDES employ this connector system (for example).



7.4 AMP CONNECTOR

Assembly

Check to be sure the wedge lock is in the open, or as-shipped, position (See Figure 7-9.). Proceed as follows:

2. Pull back on the contact wire with a force of 1 or 2 lbs. to be sure the retention fingers are holding the contact (See Figure 7-11.).

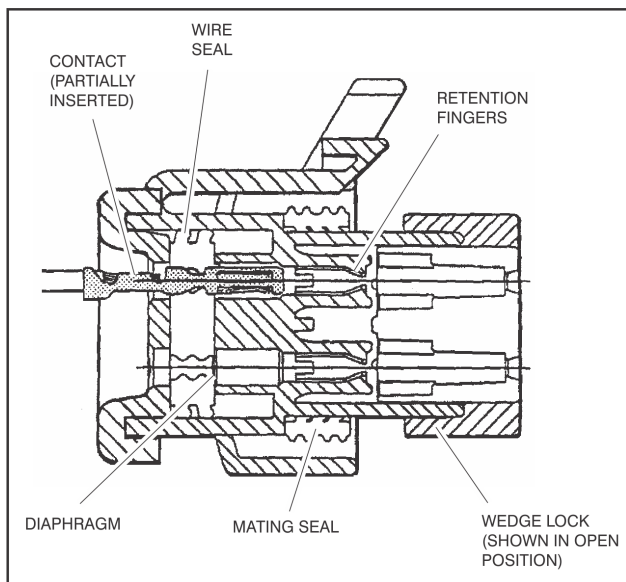


Figure 7-9. Connector Assembly Figure 1

1. To insert a contact, push it straight into the appropriate circuit cavity as far as it will go (See Figure 7-11.).

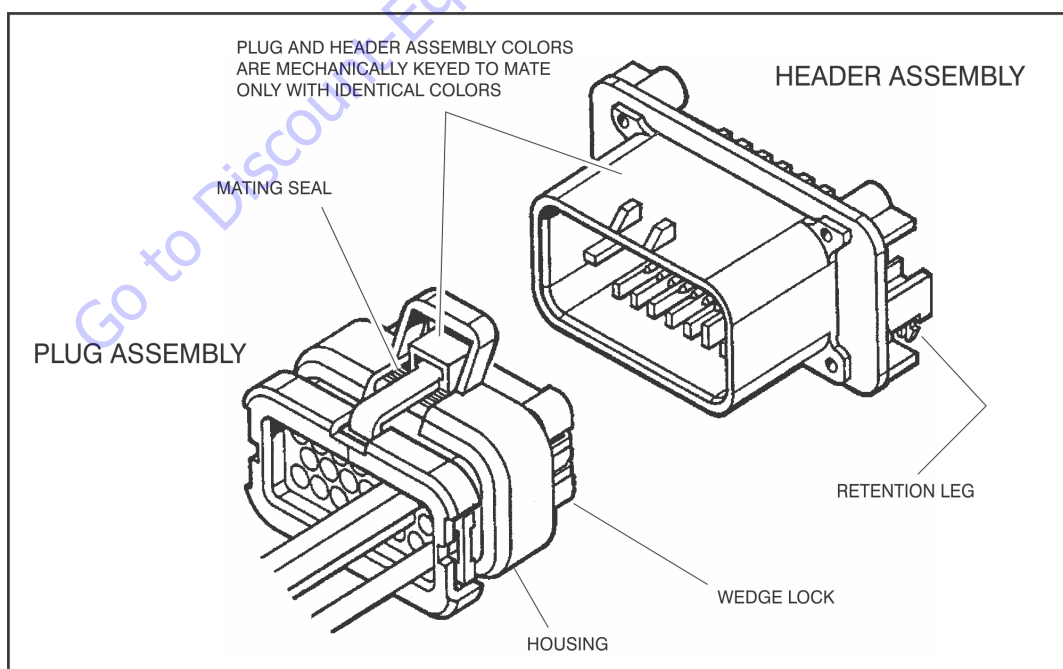


Figure 7-10. AMP Connector

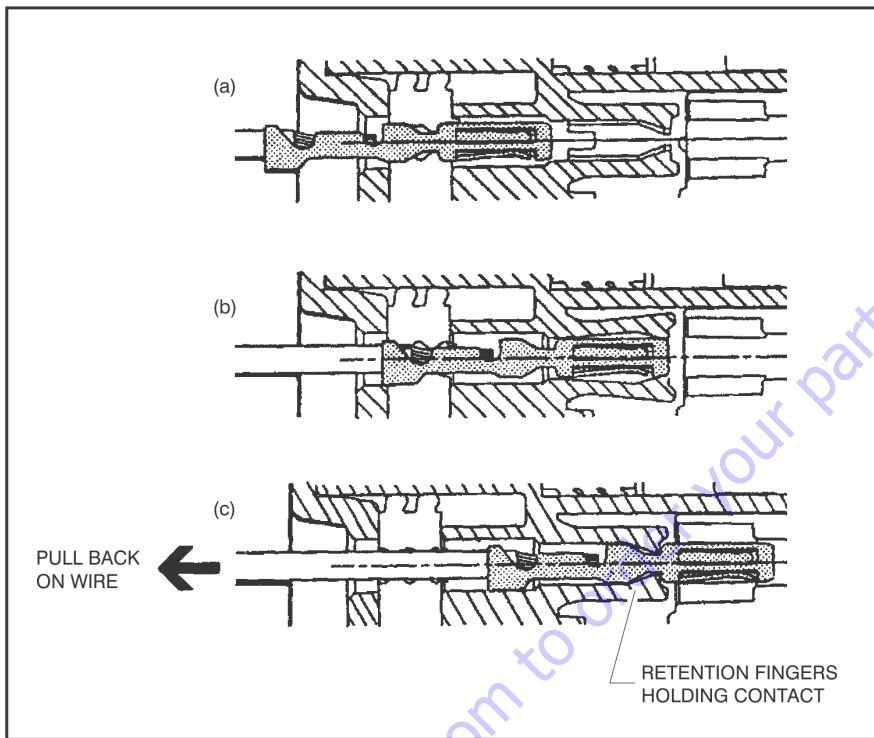


Figure 7-11. Connector Assembly Figure 2

3. After all required contacts have been inserted, the wedge lock must be closed to its locked position. Release the locking latches by squeezing them inward (See Figure 7-12.).

4. Slide the wedge lock into the housing until it is flush with the housing (See Figure 7-13.).

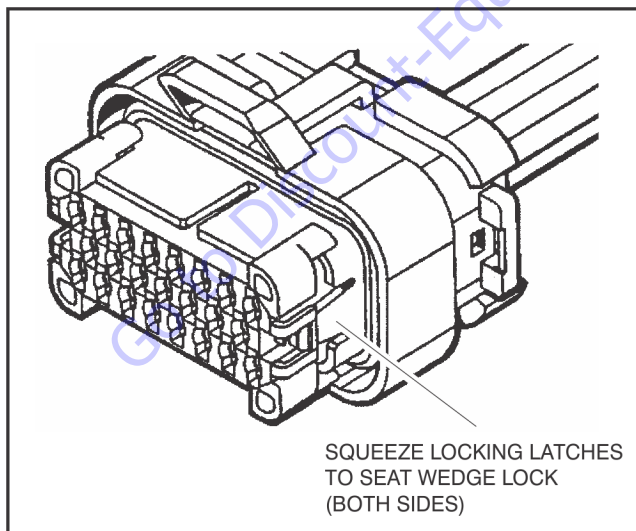


Figure 7-12. Connector Assembly Figure 3

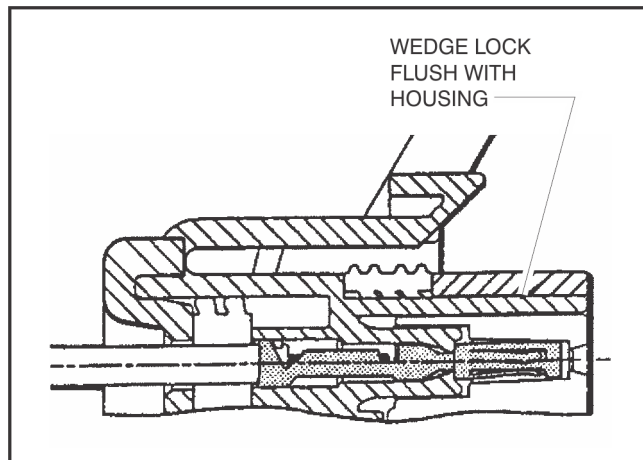


Figure 7-13. Connector Assembly Figure 4

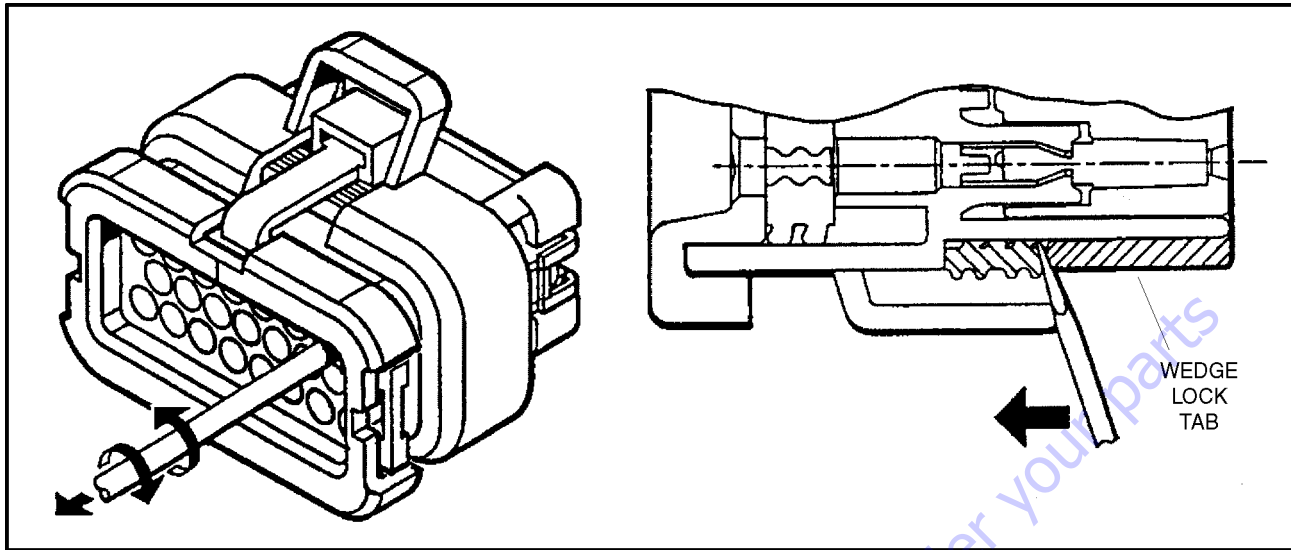


Figure 7-14. Connector Disassembly

Disassembly

1. Insert a 4.8 mm (3/16") wide screwdriver blade between the mating seal and one of the red wedge lock tabs.
2. Pry open the wedge lock to the open position.
3. While rotating the wire back and forth over a half turn (1/4 turn in each direction), gently pull the wire until the contact is removed.

NOTE: The wedge lock should never be removed from the housing for insertion or removal of the contacts.

Wedge Lock

The wedge lock has slotted openings in the forward, or mating end. These slots accommodate circuit testing in the field, by using a flat probe such as a pocket knife. DO NOT use a sharp point such as an ice pick.

Service - Voltage Reading

NOTICE

DO NOT PIERCE WIRE INSULATION TO TAKE VOLTAGE READINGS.

It has been common practice in electrical troubleshooting to probe wires by piercing the insulation with a sharp point. This practice should be discouraged when dealing with the AMPSEAL plug assembly, or any other sealed connector system. The resulting pinholes in the insulation will allow moisture to invade the system by traveling along the wire strands. This nullifies the effectiveness of the connector seals and could result in system failure.

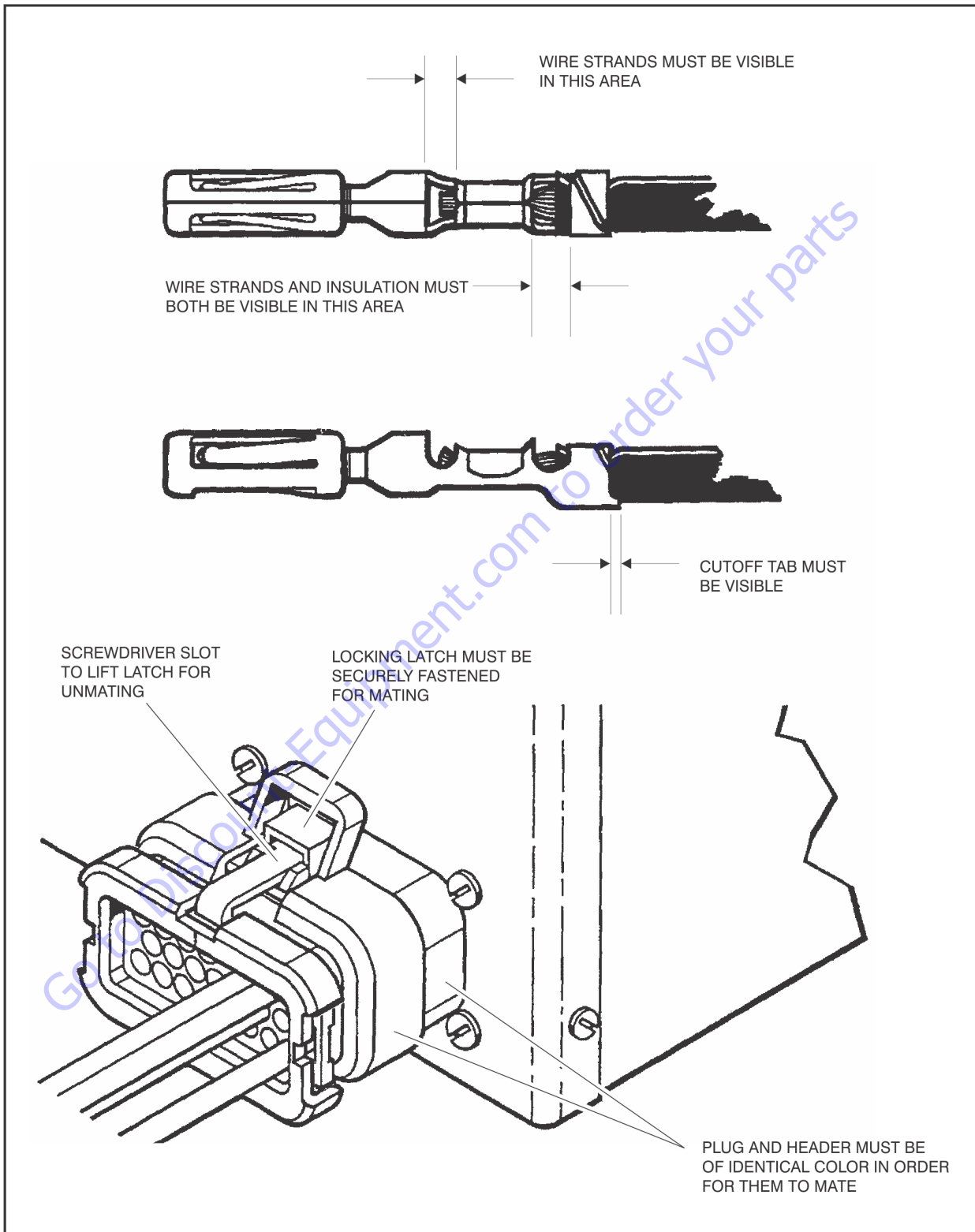


Figure 7-15. Connector Installation

7.5 DEUTSCH CONNECTORS

DT/DTP Series Assembly

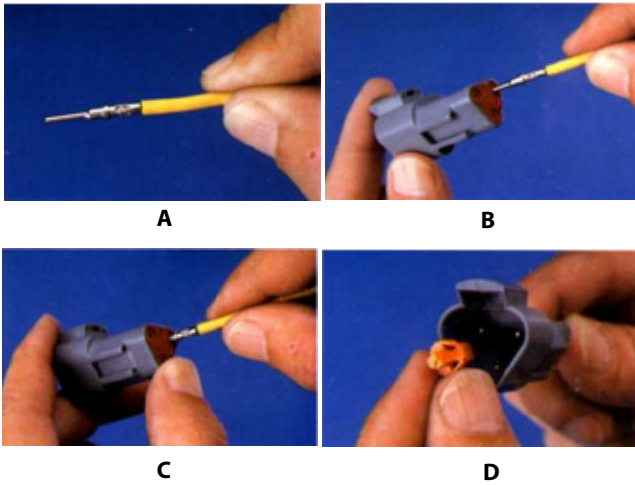


Figure 7-16. DT/DTP Contact Installation

1. Grasp crimped contact about 25mm behind the contact barrel.
2. Hold connector with rear grommet facing you.
3. Push contact straight into connector grommet until a click is felt. A slight tug will confirm that it is properly locked in place.
4. Once all contacts are in place, insert wedgelock with arrow pointing toward exterior locking mechanism. The wedgelock will snap into place. Rectangular wedges are not oriented. They may go in either way.

NOTE: The receptacle is shown - use the same procedure for plug.

DT/DTP Series Disassembly

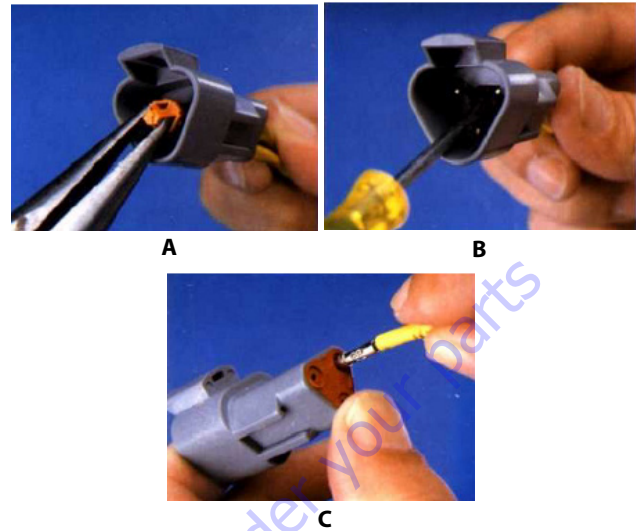


Figure 7-17. DT/DTP Contact Removal

1. Remove wedgelock using needlenose pliers or a hook shaped wire to pull wedge straight out.
2. To remove the contacts, gently pull wire backwards, while at the same time releasing the locking finger by moving it away from the contact with a screwdriver.
3. Hold the rear seal in place, as removing the contact may displace the seal.

HD30/HDP20 Series Assembly

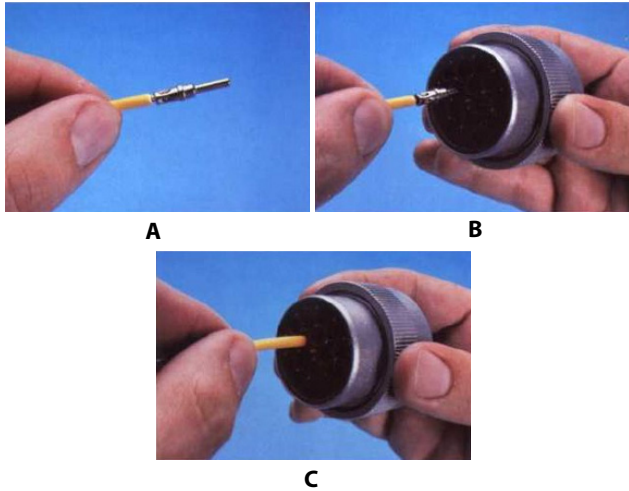


Figure 7-18. HD/HDP Contact Installation

1. Grasp contact about 25mm behind the contact crimp barrel.
2. Hold connector with rear grommet facing you.
3. Push contact straight into connector grommet until a positive stop is felt. A slight tug will confirm that it is properly locked in place.

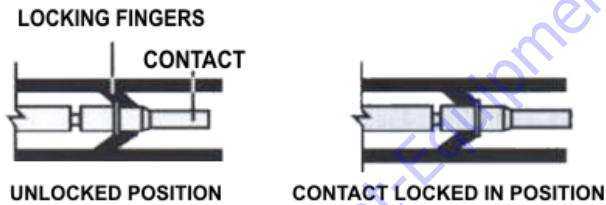


Figure 7-19. HD/HDP Locking Contacts Into Position

NOTE: For unused wire cavities, insert sealing plugs for full environmental sealing

HD30/HDP20 Series Disassembly

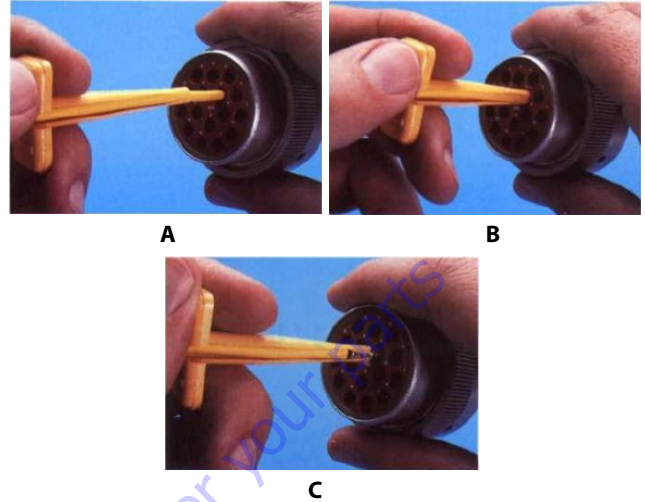


Figure 7-20. HD/HDP Contact Removal

1. With rear insert toward you, snap appropriate size extractor tool over the wire of contact to be removed.
2. Slide tool along into the insert cavity until it engages contact and resistance is felt.
3. Pull contact-wire assembly out of connector.

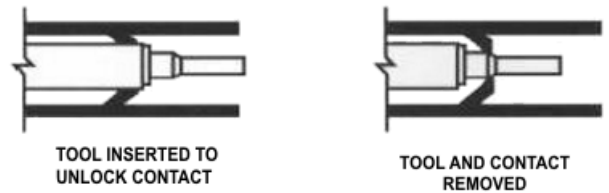


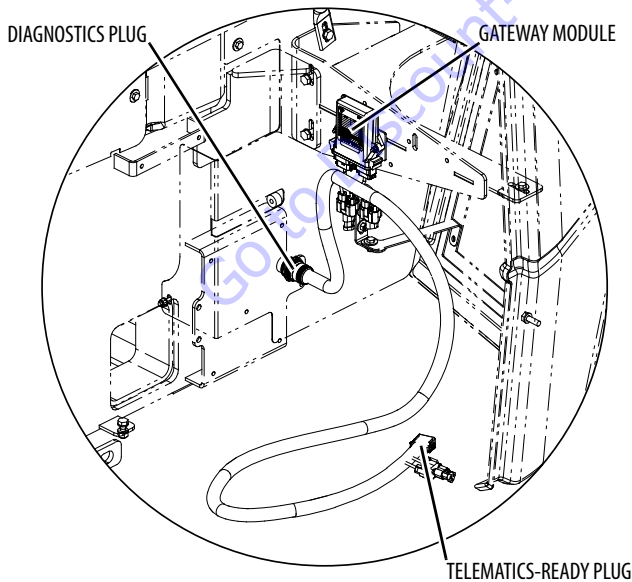
Figure 7-21. HD/HDP Unlocking Contacts

NOTE: Do Not twist or insert tool at an angle.

7.6 TELEMATICS GATEWAY

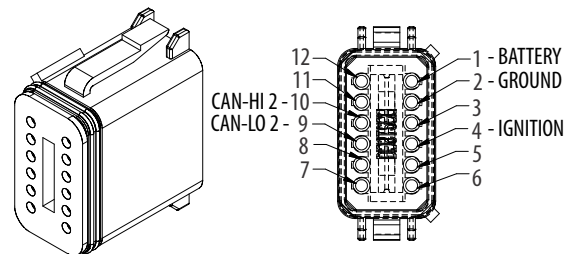
Personnel using machines equipped with an optional telematics gateway will be able to view the following data through their telematics device:

JLG LABEL	DESCRIPTION	UNIT
Engine Speed	Actual engine speed.	RPM
DEF Tank Level (If Equipped)	Indicates the level of DEF (diesel exhaust fluid) within the DEF tank if the machine is equipped with DEF tank. <ul style="list-style-type: none"> • 0% = Empty • 100% = Full 	Percentage (%)
JLG Machine Faults: Active / Not-Active	<ul style="list-style-type: none"> • 00 - No Machine Faults • 01 - Active Machine Fault • 10 - Error • 11 - Not available 	Bit
Total Idle Fuel Used	Total amount of fuel used during vehicle operation during idle conditions.	Liters
Total Idle Hours	Total time of engine operation during idle conditions.	Seconds
Total Engine Hours	Total time of engine operation.	Seconds
Total Fuel Used	Total amount of fuel used during vehicle operation.	Liters
Fuel Rate	Amount of fuel consumed by engine per unit of time.	Liters/Hour
Fuel Level	Ratio of fuel volume to the total volume of the fuel storage container. When a low fuel limit switch is present, the fuel level will indicate "full" until the switch opens, which will then indicate 10% fuel remaining. When Fuel Level 2 (SPN 38) is not used, Fuel Level 1 represents the total fuel in all fuel storage containers. When Fuel Level 2 is used, Fuel Level 1 represents the fuel level in the primary or left side fuel storage container.	Percentage (%)
DM1 Engine Faults	Shows actual engine fault codes.	N/A



Telematics-Ready (TCU) Plug

The telematics-ready (TCU) plug is a standard 12-pin Deutsch connector. Pin-out locations are shown below:



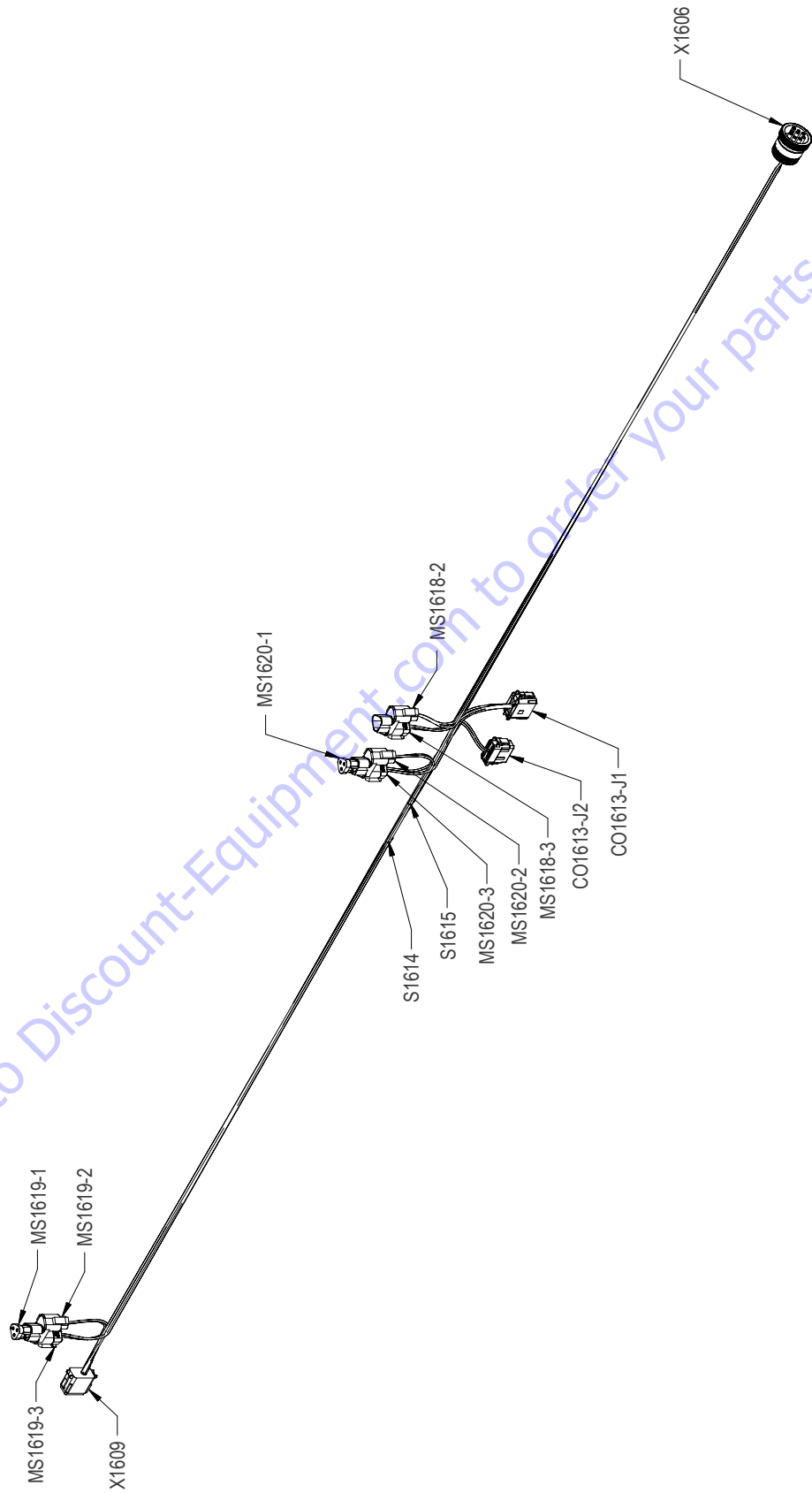


Figure 7-22. Telematics Gateway Harness - Sheet 1 of 3

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X1609 (TCU)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-0 BAT	16 AWG	GXL	X1606 (B)
2	BLK	0-0 GND	16 AWG	GXL	S1615 (1)
4	ORN	2-0 IGN	16 AWG	GXL	S1614 (1)
9	GRN	CANL2	18 AWG	GXL	MS1619-2 (B)
10	YEL	CANH2	18 AWG	GXL	MS1619-2 (A)

MS1619-2 (CAN-T 2)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CANH2	18 AWG	GXL	X1609 (10)
B	GRN	CANL2	18 AWG	GXL	X1609 (9)

S1614					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	ORN	2-0 IGN	16 AWG	GXL	X1609 (4)
2	ORN	2-1 IGN	16 AWG	GXL	X1606 (H)
2	ORN	2-2 IGN	16 AWG	GXL	CO1613-J1 (12)

S1615					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-0 GND	16 AWG	GXL	X1609 (2)
2	BLK	0-1 GND	16 AWG	GXL	X1606 (A)
2	BLK	0-2 GND	16 AWG	GXL	CO1613-J1 (11)

MS1618-2 (CAN-T 1)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CANH1	18 AWG	GXL	CO1613-J1 (10)
B	GRN	CANL1	18 AWG	GXL	CO1613-J1 (9)

MS1618-3 (CAN-T 1)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CANH1	18 AWG	GXL	X1606 (C)
B	GRN	CANL1	18 AWG	GXL	X1606 (D)

X1606 (DIAG)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	BLK	0-1 GND	16 AWG	GXL	S1615 (2)
B	RED	1-0 BAT	16 AWG	GXL	X1609 (1)
C	YEL	CANH1	18 AWG	GXL	MS1618-3 (A)
D	GRN	CANL1	18 AWG	GXL	MS1618-3 (B)
H	ORN	2-1 IGN	16 AWG	GXL	S1614 (2)

CO1613-J1 (GATEWAY 1)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
9	GRN	CAN1	18 AWG	GXL	MS1618-2 (B)
10	YEL	CANH1	18 AWG	GXL	MS1618-2 (A)
11	BLK	0-2 GND	16 AWG	GXL	S1615 (2)
12	ORN	2-2 IGN	16 AWG	GXL	S1614 (2)

CO1613-J2 (GATEWAY 2)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
9	GRN	CANL2	18 AWG	GXL	MS1620-3 (B)
10	YEL	CANH2	18 AWG	GXL	MS1620-3 (A)

MS1620-2 (CAN-T 2)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CANH2	18 AWG	GXL	MS1619-3 (A)
B	GRN	CANL2	18 AWG	GXL	MS1619-3 (B)

MS1620-3 (CAN-T 2)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CANH2	18 AWG	GXL	CO1613-J2 (10)
B	GRN	CANL2	18 AWG	GXL	CO1613-J2 (9)

Figure 7-23. Telematics Gateway Harness - Sheet 2 of 3

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

					FROM		TO	
WIRE NO.	COLOR	WIRE GAUGE	LENGTH (mm)	JACKET	REFERENCE	PIN	REFERENCE	PIN
CAN L2	GRN	18 AWG	1151	GXL	MS1619-3	B	MS1620-2	B
CAN L2	GRN	18 AWG	151	GXL	X1609	9	MS1619-2	B
CAN L1	GRN	18 AWG	157	GXL	MS1618-2	B	CO1613-J1	9
CAN L2	GRN	18 AWG	225	GXL	MS1620-3	B	CO1613-J2	9
CAN L1	GRN	18 AWG	1076	GXL	MS1618-3	B	X1606	D
CAN H2	YEL	18 AWG	155	GXL	X1609	10	MS1619-2	A
CAN H2	YEL	18 AWG	233	GXL	MS1620-3	A	CO1613-J2	10
CAN H1	YEL	18 AWG	157	GXL	MS1618-2	A	CO1613-J1	10
CAN H2	YEL	18 AWG	1150	GXL	MS1619-3	A	MS1620-2	A
CAN H1	YEL	18 AWG	1079	GXL	MS1618-3	A	X1606	C
0-0 GND	BLK	16 AWG	1006	GXL	X1609	2	S1615	1
0-1 GND	BLK	16 AWG	1145	GXL	X1606	A	S1615	2
0-2 GND	BLK	16 AWG	223	GXL	CO1613-J1	11	S1615	2
1-0 BAT	RED	16 AWG	2150	GXL	X1609	1	X1606	B
2-0 IGN	ORN	16 AWG	939	GXL	X1609	4	S1614	1
2-1 IGN	ORN	16 AWG	1212	GXL	S1614	2	X1606	H
2-2 IGN	ORN	16 AWG	287	GXL	CO1613-J1	12	S1614	2

Figure 7-24. Telematics Gateway Harness - Sheet 3 of 3

7.7 WIRING HARNESS CONNECTOR LABELS

Connector Labels

Connectors between harnesses are identified by the prefix "X" and a sequentially assigned number. An optional suffix (letters & numbers) may be added when multiple terminations occur at one device or when there are optional connections.

Examples:

X25 connects to X25 in another harness.

X65A, X65B connect to different portions of one device

X163 connects to X163A in ANSI and X163B in CE machines

Component Labels

Every component on the vehicle has a unique identification. A standard prefix letter is assigned according to the table below, followed by a unique sequential number. An optional suffix (letters & numbers) may be added when multiple terminations occur at one device.

Terminals that are not loaded into connectors are considered independent components and labeled in the same fashion.

Table 7-1. Wiring Harness Connector Labels

Component	Category	Label
Audible	Alarms	AH
	Horns	
Battery	Batteries	BT
	Battery Terminals	
Control Module	Ground	CO
	LSS	
	Platform	
Engine	Alternator	EC
	Cold Start	
	Controller	
	Coolant Temp	
	Fuel Pump	
	Fuel Solenoid	
	Glow Plugs	
	Oil Pressure	
Fuse & CB Fuse FC	Fuse	FC
	Fusible Link	
	Circuit Breaker	
Gauge & Display	Board	GD
	Cluster	
	Hour meter	
	LMI	
	Speedometer	
Inline	Resistor	R
	Diode	D
Joystick & Steering	Electronic	JS
	Hydraulic	
Lights	Dome	LB
	Headlights	
	Simple	
	Taillights	
Membrane Panel		MP
Miscellaneous	Radio	MS
	Speakers	
	Splice Blocks	
	T-Connectors	

Table 7-1. Wiring Harness Connector Labels

Component	Category	Label
Other Switches	Disconnect	SW
	EMS	
	Foot	
	HVAC	WH
	Key	SW
	Park brake	
	Pump pot	
	Push	
	Shifter	
	Turn signal	
Relay	5 Pin	RL
	4 Pin	
	Contactors	
	Power module	
Rocker Switch		SW
Sensor	Angle	SN
	Fuel	
	Length	
	Limit	
	Load	
	Pressure	
	Proximity	
	Speed	
	Temperature	
	Terminals	
Sockets		
Male Blades		
Female Blades		
Rings		
Forks		
Toggle Switch	DPDT	SW
	DPST	
	SPDT	
	SPST	
	Special	
Valves	Simple	HV
	Suppression	

Examples:

T67 is a ring terminal connected during installation.
 C01-J3 is the J3 connector for a UGM control module.
 EC9 is a glow plug supplied with the engine

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

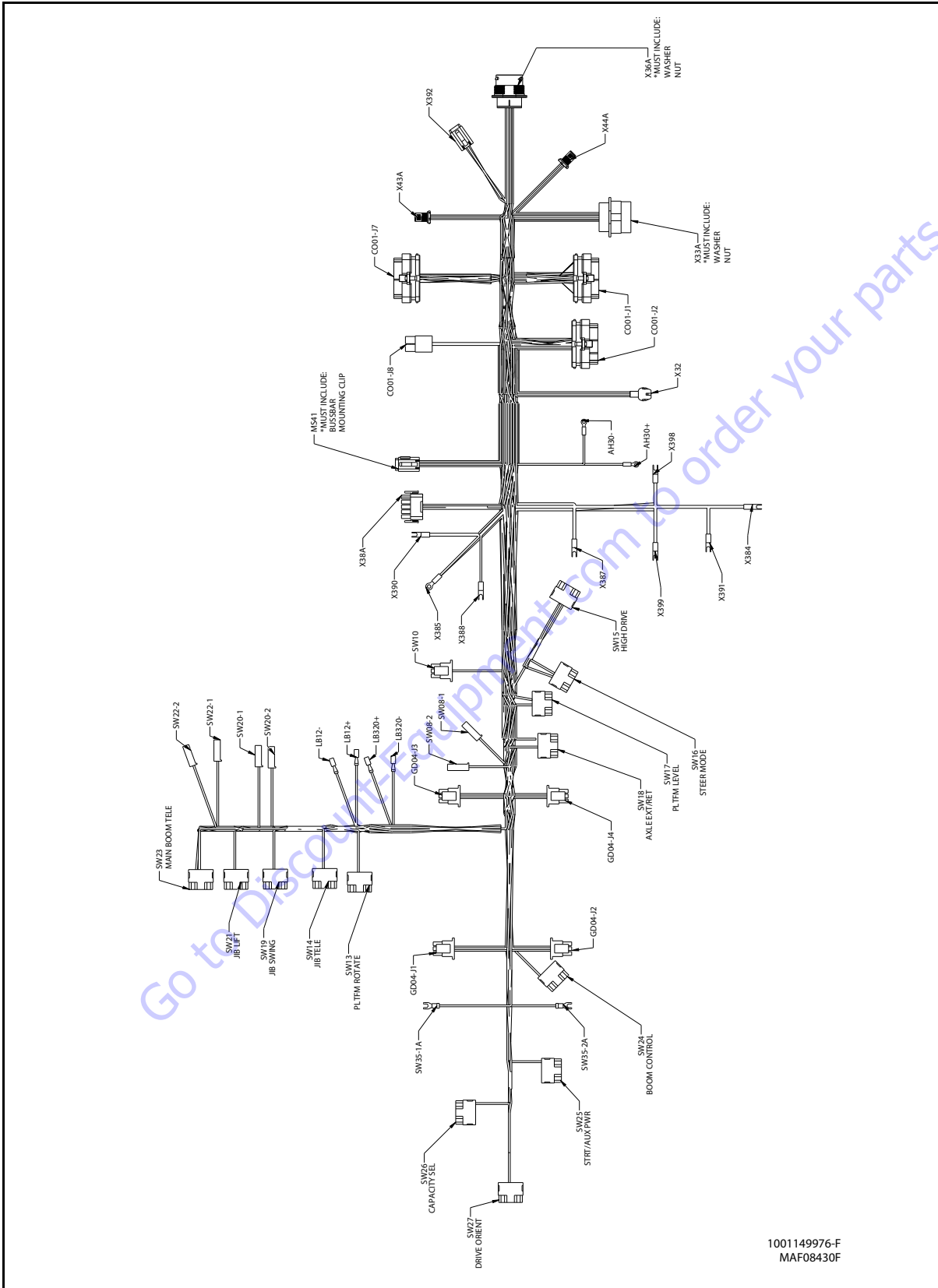


Figure 7-25. Platform Box Wiring Harness (without SKYGUARD)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

SW16 STEER MODE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-2 CRB STR	18 AWG	GXL	C001-J1 (16)
2	YEL	2-1-1	18 AWG	GXL	SW15 (2)
3	YEL	2-1-2	18 AWG	GXL	SW17 (2)
4	WHT	55-3 CRD STR	18 AWG	GXL	C001-J1 (17)
5					
6					

SW15 HIGH DRIVE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	48-1 ENG SPD	18 AWG	GXL	C001-J1 (28)
2	YEL	2-1	18 AWG	GXL	C001-J1 (18)
3	YEL	2-1-1	18 AWG	GXL	SW16 (2)
4	WHT	48-2 2 SPD	18 AWG	GXL	C001-J1 (27)
5					
6					

SW10					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2	WHT	49-14 CREEP	18 AWG	GXL	C001-J1 (32)
3	YEL	2-1-5	18 AWG	GXL	SW08-1 (1)
3	YEL	2-1-7	18 AWG	GXL	SW13 (2)
4	WHT	55-4 POT REF	18 AWG	GXL	C001-J1 (34)
5	BLK	0-3	18 AWG	GXL	C001-J1 (13)
6	WHT	55-5 PUMP POT	18 AWG	GXL	C001-J1 (35)

X384					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-40	12 AWG	GXL	X33A (16)

X391					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-41	12 AWG	GXL	X33A (18)

X398					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-25	12 AWG	GXL	S480 (1)

X399					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-26	12 AWG	GXL	S481 (1)

X387					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-25-1	12 AWG	GXL	C001-J8 (2)

X388					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-7	16 AWG	TXL	X36A (19)
1	BLK	0-8	18 AWG	GXL	X36A (5)

X385					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-40-3	16 AWG	GXL	X392 (1)
1	BLK	0-41-3	16 AWG	GXL	X392 (3)

X390					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-41-2	12 AWG	GXL	C001-J8 (1)

X38A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-7	18 AWG	GXL	C001-J2 (33)
1	YEL	2-8	18 AWG	GXL	C001-J2 (3)
1	WHT	49-24 SFTCH	18 AWG	GXL	C001-J7 (18)
1	WHT	49-25 FTSW OPEN	18 AWG	GXL	C001-J7 (8)
1	WHT	52-4 GEN	18 AWG	GXL	C001-J7 (9)
2					
3					
4					
5	WHT	49-27	18 AWG	GXL	X38A (4)
6	YEL	2-8-1	18 AWG	GXL	X38A (8)
7					
8					

AH30+					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49-26 ALARM	18 AWG	GXL	C001-J7 (19)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

AH30-					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-5	18 AWG	GXL	C001-J7 (20)

MS41					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN HI	20 AWG	J1939 CABLE	X33A (3)
2	YEL	CAN HI	20 AWG	J1939 CABLE	C001-J7 (31)
3	GRN	CAN LOW	20 AWG	J1939 CABLE	X33A (2)
4	GRN	CAN LOW	20 AWG	J1939 CABLE	C001-J7 (30)
5	SHLD	CAN SHIELD	20 AWG	J1939 CABLE	X33A (1)
6	SHLD	CAN SHIELD	20 AWG	J1939 CABLE	C001-J7 (32)
7	GRY	CAN SHIELD	20 AWG	CABLE	X44A (5)
8	GRY	CAN SHIELD	20 AWG	CABLE	X43A (5)
9	BLK	CAN LOW	20 AWG	CABLE	X44A (4)
10	BLK	CAN LOW	20 AWG	CABLE	X43A (4)
11	BLK	CAN HI	20 AWG	CABLE	X44A (3)
12	BLK	CAN HI	20 AWG	CABLE	X43A (3)

X32					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN HI	20 AWG	J1939 CABLE	X33A (3)
2	YEL	CAN HI	20 AWG	J1939 CABLE	C001-J7 (31)
3	GRN	CAN LOW	20 AWG	J1939 CABLE	X33A (2)
4	GRN	CAN LOW	20 AWG	J1939 CABLE	C001-J7 (30)

X404A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	CABLEP/N1060616	18AWG	CABLE	SN131(A)
2	BLU	CABLEP/N1060616	18AWG	CABLE	SN131(C)
3	BLK	CABLEP/N1060616	18AWG	CABLE	SN131(B)
4	RED/BLK	CABLEP/N1060616	18AWG	TFFN	SN221(NC)
5	YEL	CABLEP/N1060616	18AWG	CABLE	SN221(1)
6	ORG	CABLEP/N1060616	18AWG	CABLE	SN401(2)
7	BRN	CABLEP/N1060616	22AWG	CABLE	S166(1)
8	SHIELD	CABLEP/N1060616	18AWG	SHLD	SN221(N.C)

SN131 LENGTH SENSOR					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	RED	CABLEP/N1060616	18AWG	CABLE	X404A(1)
B	BLK	CABLEP/N1060616	18AWG	CABLE	X404A(3)
C	BLU	CABLEP/N1060616	18AWG	CABLE	X404A(2)

S166					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BRN	CABLEP/N1060616	22AWG	CABLE	X404A(7)
2	BLK		18AWG	GXL	SN221(3)
2	BLK		18AWG	GXL	SN401(3)

SN401 BROKEN CABLE ROX2 LEFTSIDE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT		18AWG	GXL	SN221(2)
2	ORG	CABLEP/N1060616	18AWG	CABLE	X404A(6)
3	BLK		18AWG	GXL	S166(2)
4					

SN221 BROKEN CABLE PROX1 RIGHT SIDE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CABLEP/N1060616	18AWG	CABLE	X404A(5)
2	WHT		18AWG	GXL	SN401(1)
3	BLK		18AWG	GXL	S166(2)
N.C	SHIELD	CABLEP/N1060616	18AWG	SHLD	X404A(8)
NC	RED/BLK	CABLEP/N1060616	18AWG	TFFN	X404A(4)

SN137 BOOM ANG2 LEFT SIDE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	TO	
1	YEL	CABLEP/N1060616	18AWG	X406B(5)	
2	ORG	CABLEP/N1060616	18AWG	X406B(6)	
3	BRN	CABLEP/N1060616	22AWG	X406B(7)	

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X422					
CONN POS	WIREC OLOR	WIRELABEL	GAUGE	JACKET	TO
1	SHIELD	CABLEP/N1060616	18AWG	SHLD	SN136(NC)

X406B					
CONN POS	WIREC OLOR	WIRELABEL	GAUGE	JACKET	TO
1	RED	CABLEP/N1060616	18AWG	CABLE	SN136(1)
2	BLU	CABLEP/N1060616	18AWG	CABLE	SN136(2)
3	BLK	CABLEP/N1060616	18AWG	CABLE	SN136(3)
4					
5	YEL	CABLEP/N1060616	18AWG	CABLE	SN137(1)
6	ORG	CABLEP/N1060616	18AWG	CABLE	SN137(2)
7	BRN	CABLEP/N1060616	22AWG	CABLE	SN137(3)
8					

SN136 BOOM ANG1 RIGHT SIDE					
CONN POS	WIREC OLOR	WIRELABEL	GAUGE	JACKET	TO
1	RED	CABLEP/N1060616	18AWG	CABLE	X406B(1)
2	BLU	CABLEP/N1060616	18AWG	CABLE	X406B(2)
3	BLK	CABLEP/N1060616	18AWG	CABLE	X406B(3)
NC	SHIELD	CABLEP/N1060616	18AWG	SHLD	X422(1)

MS41					
CONN POS	WIREC OLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CANHI	20AWG	J1939CABLE	X33A(3)
2	YEL	CANHI	20AWG	J1939CABLE	C001-J7(31)
3	GRN	CANLOW	20AWG	J1939CABLE	X33A(2)
4	GRN	CANLOW	20AWG	J1939CABLE	C001-J7(30)
5	SHLD	CANSHIELD	20AWG	J1939CABLE	X33A(1)
6	SHLD	CANSHIELD	20AWG	J1939CABLE	C001-J7(32)
7	GRY	CANSHIELD	20AWG	CABLE	X44A(5)
8	GRY	CANSHIELD	20AWG	CABLE	X43A(5)
9	BLK	CANLOW	20AWG	CABLE	X44A(4)
10	BLK	CANLOW	20AWG	CABLE	X43A(4)
11	BLU	CANHI	20AWG	CABLE	X44A(3)
12	BLU	CANHI	20AWG	CABLE	X43A(3)

X32					
CONN POS	WIREC OLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49-9ANALPWR	18AWG	GXL	C001-J2(26)
2	WHT	49-8RX	18AWG	GXL	C001-J2(28)
3	WHT	49-7TX	18AWG	GXL	C001-J2(29)
4	WHT	49-6ANALGND	18AWG	GXL	C001-J2(27)

C001-J8					
CONN POS	WIREC OLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-41-2	12AWG	GXL	X390(1)
2	YEL	2-25-1	12AWG	GXL	X387(1)

X43A					
CONN POS	WIREC OLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BRN	49-11X43PWR	20AWG	CABLE	C001-J7(4)
2	WHT	49-10X43GND	20AWG	CABLE	C001-J7(14)
3	BLU	CANHI	20AWG	CABLE	MS41(12)
4	BLK	CANLOW	20AWG	CABLE	MS41(10)
5	GRY	CANSHIELD	20AWG	CABLE	MS41(8)

X44A					
CONN POS	WIREC OLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BRN	49-13X44PWR	20AWG	CABLE	C001-J7(7)
2	WHT	49-12X44GND	20AWG	CABLE	C001-J7(14)
3	BLU	CANHI	20AWG	CABLE	MS41(11)
4	BLK	CANLOW	20AWG	CABLE	MS41(9)
5	GRY	CANSHIELD	20AWG	CABLE	MS41(7)

X392					
CONN POS	WIREC OLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-40-3	16AWG	GXL	X385(1)
2	ORG	1-7-1WKLPWR	16AWG	TXL	X36A(13)
3	BLK	0-41-3	16AWG	GXL	X385(1)
4	ORG	1-7-2WKLPWR	16AWG	TXL	X36A(20)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X36A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-6-1	18AWG	GXL	S40(2)
2	WHT	49-18PLVL1	18AWG	GXL	C001-J1(25)
3	WHT	49-22GND	18AWG	GXL	C001-J7(21)
4	WHT	49-50PROXNC	18AWG	GXL	C001-J1(20)
5	BLK	0-8	18AWG	GXL	X388(1)
6	WHT	25-4-1PLVLDN	18AWG	GXL	S46(2)
7	WHT	25-3-1PLVLUP	18AWG	GXL	S45(2)
8	WHT	23-3PROTLT	18AWG	GXL	C001-J7(5)
9	WHT	23-4PROTRT	18AWG	GXL	C001-J7(6)
10	WHT	55-26JLOCKIN	18AWG	GXL	C001-J7(25)
11	WHT	55-25JLOCKOUT	18AWG	GXL	C001-J7(26)
12	BLK	0-4	18AWG	GXL	C001-J7(29)
13	ORG	1-7-1WKLPWR	16AWG	TXL	X392(2)
14					
15	YEL	2-6-2	18AWG	GXL	S40(2)
16	WHT	49-17PLVL2	18AWG	GXL	C001-J1(26)
17	WHT	49-23GND	18AWG	GXL	C001-J7(33)
18	WHT	50-2PDUMP	16AWG	TXL	X36A(14)
19	BLK	0-7	16AWG	TXL	X388(1)
20	ORG	1-7-2WKLPWR	16AWG	TXL	X392(4)
21					

X33A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	SHLD	CANSHIELD	20AWG	J1939CA BLE	MS41(5)
2	GRN	CANLOW	20AWG	J1939CA BLE	MS41(3)
3	YEL	CANHI	20AWG	J1939CA BLE	MS41(1)
4	YEL	2-4	18AWG	GXL	C001-J7(3)
5	RED	1-4-3	18AWG	GXL	SW35-2A(2A)
6					
7	WHT	25-5PLVLDNO/R	18AWG	GXL	S46(2)
8					
9	WHT	25-6PLVLUPO/R	18AWG	GXL	S45(2)
10	-	2-25FUSIBLELINK	12AWG	FUSIBLE LINK	S480(2)
11	YEL	2-5	18AWG	GXL	C001-J7(1)
12	-	2-26FUSIBLELINK	12AWG	FUSIBLE LINK	S481(2)
13	WHT	49-19PROXNO	18AWG	GXL	C001-J1(33)
14					
15	WHT	49-20PROXNC	18AWG	GXL	C001-J1(1)
16	BLK	0-40	12AWG	GXL	X384(1)
17					
18	BLK	0-41	12AWG	GXL	X391(1)
19					

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

C001-J7					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-5	18AWG	GXL	X33A(11)
2	RED	1-4-3PLTFMODE	18AWG	GXL	SW35-1A(1A)
3	YEL	2-4	18AWG	GXL	X33A(4)
4	BRN	49-11X43PWR	20AWG	CABLE	X43A(1)
5	WHT	23-3PROTLT	18AWG	GXL	X36A(8)
6	WHT	23-4PROTRT	18AWG	GXL	X36A(9)
7	BRN	49-13X44PWR	20AWG	CABLE	X44A(1)
8	WHT	49-25FTSWOPEN	18AWG	GXL	X38A(7)
9	WHT	52-4GEN	18AWG	GXL	X38A(1)
10					
11					
12					
13					
14	WHT	49-10X43GND	20AWG	CABLE	X43A(2)
14	WHT	49-12X44GND	20AWG	CABLE	X44A(2)
15	WHT	25-3PLVLUP	18AWG	GXL	S45(1)
16	WHT	25-4PLVLDN	18AWG	GXL	S46(1)
17					
18	WHT	49-24SFTCH	18AWG	GXL	X38A(3)
19	WHT	49-26ALARM	18AWG	GXL	AH30+(1)
20	BLK	0-5	18AWG	GXL	AH30-(1)
21	WHT	49-22GND	18AWG	GXL	X36A(3)
22					
23					
24					
25	WHT	55-26JLOCKIN	18AWG	GXL	X36A(10)
26	WHT	55-25JLOCKOUT	18AWG	GXL	X36A(11)
27					
28					
29	BLK	0-4	18AWG	GXL	X36A(12)
30	GRN	CANLOW	20AWG	J1939CABLE	MS41(4)
31	YEL	CANHI	20AWG	J1939CABLE	MS41(2)
32	SHLD	CANSHIELD	20AWG	J1939CABLE	MS41(6)
33	WHT	49-23GND	18AWG	GXL	X36A(17)
34					
35					

C001-J1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49-20PROXNC	18AWG	GXL	X33A(15)
2					
3	WHT	29-1JTELEIN	18AWG	GXL	SW14(1)
4	WHT	29-2JTELEOUT	18AWG	GXL	SW14(3)
5	WHT	13-1MTELEIN	18AWG	GXL	SW23(1)
6	WHT	13-2MTELEOUT	18AWG	GXL	SW23(3)
7	WHT	23-1PROTRT	18AWG	GXL	SW13(1)
8	WHT	23-2PROTLT	18AWG	GXL	SW13(3)
9	WHT	25-1PLVLUP	18AWG	GXL	SW17(1)
10	WHT	25-2PLVLDN	18AWG	GXL	SW17(3)
11	WHT	27-1JIBUP	18AWG	GXL	SW21(1)
12	WHT	27-2JIBDN	18AWG	GXL	SW21(3)
13	BLK	0-3	18AWG	GXL	SW10(5)
14	WHT	48-3STRT	18AWG	GXL	SW25(1)
15	WHT	53-1AUX	18AWG	GXL	SW25(3)
16	WHT	55-2CRBSTR	18AWG	GXL	SW16(1)
17	WHT	55-3CRDSTR	18AWG	GXL	SW16(3)
18	YEL	2-1	18AWG	GXL	SW15(2)
19					
20	WHT	49-50PROXNC	18AWG	GXL	X36A(4)
21	WHT	54-3CPCITYSW	18AWG	GXL	SW26(3)
22	WHT	49-16ENVLP	18AWG	GXL	SW24(3)
23	WHT	39-2AXLEXT	18AWG	GXL	SW18(1)
24	WHT	39-3AXLRET	18AWG	GXL	SW18(3)
25	WHT	49-18PLVL1	18AWG	GXL	X36A(2)
26	WHT	49-17PLVL2	18AWG	GXL	X36A(16)
27	WHT	48-22SPD	18AWG	GXL	SW15(3)
28	WHT	48-1ENGSPD	18AWG	GXL	SW15(1)
29	WHT	49-15SFTTOUCH	18AWG	GXL	SW20-2(1)
30	WHT	52-3HEAD/TAILLT	18AWG	GXL	SW22-2(1)
31	WHT	52-2HORN	18AWG	GXL	SW08-2(1)
32	WHT	49-14CREEP	18AWG	GXL	SW10(2)
33	WHT	49-19PROXNO	18AWG	GXL	X33A(13)
34	WHT	55-4POTREF	18AWG	GXL	SW10(4)
35	WHT	55-5PUMPPOT	18AWG	GXL	SW10(6)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

C001-J2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	59-1JSWGRT	18AWG	GXL	SW19(1)
2	WHT	59-2JSWGLT	18AWG	GXL	SW19(3)
3	YEL	2-8	18AWG	GXL	X38A(8)
4	WHT	55-6DOS	18AWG	GXL	SW27(1)
5					
6	WHT	49-1TILT	18AWG	GXL	GD04-J4(5)
7	YEL	2-2ENABLE	18AWG	GXL	GD04-J2(2)
8	WHT	47-2SYSFAIL	18AWG	GXL	GD04-J3(6)
9	WHT	49-5CREEP	18AWG	GXL	GD04-J2(1)
10	WHT	49-3BRKNCABLE	18AWG	GXL	GD04-J3(5)
11	WHT	49-2OVERLOAD	18AWG	GXL	GD04-J4(3)
12	WHT	54-1500LBMODE	18AWG	GXL	GD04-J4(4)
13	WHT	54-21000LBMODE	18AWG	GXL	GD04-J3(4)
14	WHT	39-1AXLSET	18AWG	GXL	GD04-J3(2)
15	WHT	52-1GEN	18AWG	GXL	GD04-J4(2)
16	WHT	49-21SFTCHLT	18AWG	GXL	LB12+(1)
17	WHT	48-1ENGPREHEAT	18AWG	GXL	GD04-J4(6)
18	BLK	0-2	18AWG	GXL	GD04-J2(6)
19	WHT	49-4BCS	18AWG	GXL	GD04-J3(1)
20	WHT	47-1PLTFMLVLFAL	18AWG	GXL	GD04-J4(1)
21	WHT	47-5LOWFUL	18AWG	GXL	GD04-J2(3)
22	WHT	47-1FUL1/4	18AWG	GXL	GD04-J1(1)
23	WHT	47-3FUL3/4	18AWG	GXL	GD04-J1(3)
24	WHT	47-2FUL1/2	18AWG	GXL	GD04-J1(2)
25	BLK	0-1	18AWG	GXL	GD04-J1(4)
26	WHT	49-9ANALPWR	18AWG	GXL	X32(1)
27	WHT	49-6ANALGND	18AWG	GXL	X32(4)
28	WHT	49-8RX	18AWG	GXL	X32(2)
29	WHT	49-7TX	18AWG	GXL	X32(3)
30	WHT	55-1DRVORNT	18AWG	GXL	GD04-J3(3)
31	WHT	59-6JIBLOK	18AWG	GXL	LB320+(1)
32	YEL	2-6	18AWG	GXL	S40(1)
33	YEL	2-7	18AWG	GXL	X38A(2)
34					
35	WHT	47-4FULFULL	18AWG	GXL	GD04-J1(6)

SW35-2A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
2A	RED	1-4-3	18 AWG	GXL	X33A (5)

SW27 DRIVE ORIENT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-6 DOS	18 AWG	GXL	C001-J2 (4)
2	YEL	2-1-17	18 AWG	GXL	SW26 (2)
3					
4					
5					
6					

SW26 CAPACITY SEL					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2	YEL	2-1-16	18 AWG	GXL	SW25 (2)
2	YEL	2-1-17	18 AWG	GXL	SW27 (2)
3	YEL	54-3 CPCITY SW	18 AWG	GXL	C001-J1 (21)
4					
5					
6					

SW25 STRT/AUX PWR					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	48-3 STRT	18 AWG	GXL	C001-J1 (14)
2	YEL	2-1-15	18 AWG	GXL	SW24 (2)
2	YEL	2-1-16	18 AWG	GXL	SW26 (2)
3	WHT	53-1 AUX	18 AWG	GXL	C001-J1 (15)
4					
5					
6					

SW35-1A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1A	RED	1-4-3 PLTF MODE	18 AWG	GXL	C001-J7 (2)

SW20-1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-1-10	18 AWG	GXL	SW19 (2)
1	YEL	2-1-11	18 AWG	GXL	SW21 (2)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

SW24 BOOM CONTROL					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2	YEL	2-1-14	18 AWG	GXL	SW23 (2)
2	YEL	2-1-15	18 AWG	GXL	SW25 (2)
3	WHT	49-16 ENVLP	18 AWG	GXL	C001-J1 (22)
4					
5					
6					

CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49-5 CREEP	18 AWG	GXL	C001-J2 (9)
2	YEL	2-2 ENABLE	18 AWG	GXL	C001-J2 (7)
3	WHT	47-5 LOW FUL	18 AWG	GXL	C001-J2 (21)
4					
5					
6	BLK	0-2	18 AWG	GXL	C001-J2 (18)

GD04-J1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	47-1 FUL 1/4	18 AWG	GXL	C001-J2 (22)
2	WHT	47-2 FUL 1/2	18 AWG	GXL	C001-J2 (24)
3	WHT	47-3 FUL 3/4	18 AWG	GXL	C001-J2 (23)
4	BLK	0-1	18 AWG	GXL	C001-J2 (25)
4	BLK	0-1-2	18 AWG	GXL	LB12- (1)
5					
6	WHT	47-4 FUL FULL	18 AWG	GXL	C001-J2 (35)

SW13 PLTFM ROTATE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	23-1 P ROT RT	18 AWG	GXL	C001-J1 (7)
2	YEL	2-1-7	18 AWG	GXL	SW10 (3)
3	YEL	2-1-8	18 AWG	GXL	SW14 (2)
4	WHT	23-2 P ROT LT	18 AWG	GXL	C001-J1 (8)
5					
6					

SW14 JIB TELE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	29-1 JTELE IN	18 AWG	GXL	C001-J1 (3)
2	YEL	2-1-8	18 AWG	GXL	SW13 (2)
2	YEL	2-1-9	18 AWG	GXL	SW19 (2)
3	WHT	29-2 JTELE OUT	18 AWG	GXL	C001-J1 (4)
4					
5					
6					

SW19 JIB SWING					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	59-1 JSWG RT	18 AWG	GXL	C001-J2 (1)
2	YEL	2-1-10	18 AWG	GXL	SW20-1 (1)
2	YEL	2-1-9	18 AWG	GXL	SW14 (2)
3	WHT	59-2 JSWG LT	18 AWG	GXL	C001-J2 (2)
4					
5					
6					

SW21 JIB LIFT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	27-1 JIB UP	18 AWG	GXL	C001-J1 (11)
2	YEL	2-1-11	18 AWG	GXL	SW20-1 (1)
2	YEL	2-1-12	18 AWG	GXL	SW22-1 (1)
3	WHT	27-2 JIB DN	18 AWG	GXL	C001-J1 (12)
4					
5					
6					

SW23 MAIN BOOM TELE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	13-1 MTELE IN	18 AWG	GXL	C001-J1 (5)
2	YEL	2-1-13	18 AWG	GXL	SW22-1 (1)
2	YEL	2-1-14	18 AWG	GXL	SW24 (2)
3	WHT	13-2 MTELE OUT	18 AWG	GXL	C001-J1 (6)
4					
5					
6					

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

SW22-2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	52-3 HEAD/TAIL LT	18 AWG	GXL	C001-J1 (30)

SW22-1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-1-12	18 AWG	GXL	SW21 (2)
1	YEL	2-1-13	18 AWG	GXL	SW23 (2)

SW20-2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49-15 SFT TOUCH	18 AWG	GXL	C001-J1 (29)

LB12-					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-1-2	18 AWG	GXL	GD04-J1 (4)
1	BLK	0-1-2-2	18 AWG	GXL	LB320- (1)

LB12+					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49-21 SFTCH LT	18 AWG	GXL	C001-J2 (16)

LB320+					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	59-6 JIB LOK	18 AWG	GXL	C001-J2 (31)

LB320-					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-1-2-2	18 AWG	GXL	LB12- (1)

GD04-J4					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	47-1 PLTFM LVL FAIL	18 AWG	GXL	C001-J2 (20)
2	WHT	52-1 GEN	18 AWG	GXL	C001-J2 (15)
3	WHT	49-2 OVERLOAD	18 AWG	GXL	C001-J2 (11)
4	WHT	54-1 500LB MODE	18 AWG	GXL	C001-J2 (12)
5	WHT	49-1 TILT	18 AWG	GXL	C001-J2 (6)
6	WHT	48-1 ENG PREHEAT	18 AWG	GXL	C001-J2 (17)

GD04-J3					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49-4 BCS	18 AWG	GXL	C001-J2 (19)
2	WHT	39-1 AXL SET	18 AWG	GXL	C001-J2 (14)
3	WHT	55-1 DRV ORNT	18 AWG	GXL	C001-J2 (30)
4	WHT	54-2 1000LB MODE	18 AWG	GXL	C001-J2 (13)
5	WHT	49-3 BRKN CABLE	18 AWG	GXL	C001-J2 (10)
6	WHT	47-2 SYS FAIL	18 AWG	GXL	C001-J2 (8)

SW08-2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	52-2 HORN	18 AWG	GXL	C001-J1 (31)

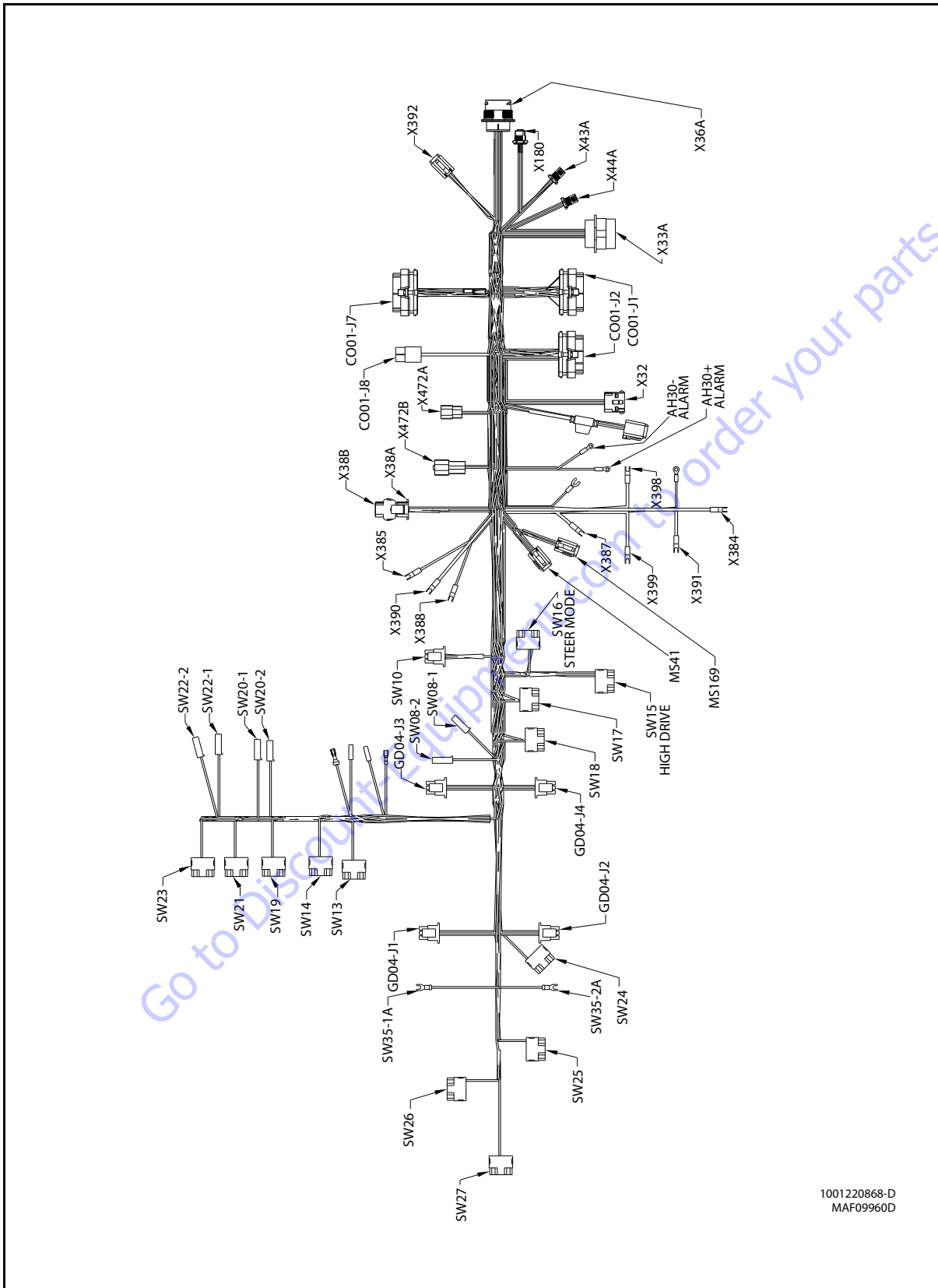
SW08-1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-1-4	18 AWG	GXL	C001-J1 (31)
1	YEL	2-1-5	18 AWG	GXL	SW10 (3)

SW18 AXLE EXT/RET					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	39-2 AXL EXT	18 AWG	GXL	C001-J1 (23)
2	YEL	2-1-3	18 AWG	GXL	SW17 (2)
2	YEL	2-1-4	18 AWG	GXL	SW08-1 (1)
3	WHT	39-3 AXL RET	18 AWG	GXL	C001-J1 (24)
4					
5					
6					

SW17 PLTFM LEVEL					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	25-1 PLVL UP	18 AWG	GXL	C001-J1 (9)
2	YEL	2-1-2	18 AWG	GXL	SW16 (2)
2	YEL	2-1-3	18 AWG	GXL	SW18 (2)
3	WHT	25-2 PLVL DN	18 AWG	GXL	C001-J1 (10)
4					
5					
6					

Go to Discount-Equipment.com to order your parts

This page left blank intentionally



1001220868-D
MAF09960D

Figure 7-26. Platform Box Wiring Harness (with SKYGUARD)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X36A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-6-1	18 AWG	GXL	S40 (2)
1	WHT	50-2 P DUMP	16 AWG	TXL	()
2	WHT	49-18 PLVL 1	18 AWG	GXL	C001-J1 (25)
3	WHT	49-22 GND	18 AWG	GXL	C001-J7 (21)
4	WHT	49-50 PROX NC	18 AWG	GXL	C001-J1 (20)
5	BLK	0-8	18 AWG	GXL	X388 (1)
6	WHT	25-4-1 PLVL DN	18 AWG	GXL	S46 (2)
7	WHT	25-3-1 PLVL UP	18 AWG	GXL	S45 (2)
8	WHT	23-3 PROT LT	18 AWG	GXL	C001-J7 (5)
9	WHT	23-4 PROT RT	18 AWG	GXL	C001-J7 (6)
10	WHT	55-26 JLOCK IN	18 AWG	GXL	C001-J7 (25)
11	WHT	55-25 JLOCK OUT	18 AWG	GXL	C001-J7 (26)
12	BLK	0-4	18 AWG	GXL	C001-J7 (29)
13	ORG	1-7-1 WK LT PWR	16 AWG	TXL	X392 (2)
14					
15	YEL	2-6-2	18 AWG	GXL	S40 (2)
16	WHT	49-17 PLVL 2	18 AWG	GXL	C001-J1 (26)
17	WHT	49-23 GND	18 AWG	GXL	C001-J7 (33)
18	WHT	50-2 P DUMP	16 AWG	TXL	X36A (14)
19	BLK	0-7	16 AWG	TXL	X388 (1)
20	ORG	1-7-2 WK LT PWR	16 AWG	TXL	X392 (4)
21					

X392 LIGHTS (OPTION)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-40-3	16 AWG	GXL	X385 (1)
2	ORG	1-7-1 WK LT PWR	16 AWG	TXL	X36A (13)
3	BLK	0-41-3	16 AWG	GXL	X385 (1)
4	ORG	1-7-2 WK LT PWR	16 AWG	TXL	X36A (20)

X43A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BRN	49-11 X43 PWR	20 AWG	CABLE	C001-J7 (4)
2	WHT	49-10 X43 GND	20 AWG	CABLE	C001-J7 (34)
3	BLU	CAN HI	20 AWG	CABLE	MS41 (12)
4	BLK	CAN LOW	20 AWG	CABLE	MS41 (10)
5	GRY	CAN SHIELD	20 AWG	CABLE	MS41 (8)

X44A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BRN	49-13 X44 PWR	20 AWG	CABLE	C001-J7 (7)
2	WHT	49-12 X44 GND	20 AWG	CABLE	C001-J7 (14)
3	BLU	CAN HI	20 AWG	CABLE	MS169 (2)
4	BLK	CAN LOW	20 AWG	CABLE	MS169 (4)
5	GRY	CAN SHIELD	20 AWG	CABLE	MS169 (6)

X33A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	SHLD	CAN SHIELD	20 AWG	J1939 CABLE	X472A (3)
2	GRN	CAN LOW	20 AWG	J1939 CABLE	X472A (2)
3	YEL	CAN HI	20 AWG	J1939 CABLE	X472A (1)
4	YEL	2-4	18 AWG	GXL	C001-J7 (3)
5	RED	1-4-3	18 AWG	GXL	SW35-2A (2A)
6					
7	WHT	25-5 PLVL DN O/R	18 AWG	GXL	S46 (2)
8					
9	WHT	25-6 PLVL UP O/R	18 AWG	GXL	S45 (2)
10		2-25 FUSIBLE LINK	12 AWG	FUSIBLE LINK	S480 (2)
11	YEL	2-5	18 AWG	GXL	C001-J7 (1)
12		2-26 FUSIBLE LINK	12 AWG	FUSIBLE LINK	S481 (2)
13	WHT	49-19 PROX NO	18 AWG	GXL	C001-J1 (33)
14					
15	WHT	49-20 PROX NC	18 AWG	GXL	C001-J1 (1)
16	BLK	0-40	12 AWG	GXL	X384 (1)
17					
18	BLK	0-41	12 AWG	GXL	X391 (1)
19					

X180					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2	WHT	PWR	20 AWG	CABLE	X386 (1)
3	BLU	GND	20 AWG	CABLE	X397 (1)
4	BLK	CAN HI	20 AWG	CABLE	MS169 (1)
5	GRY	CAN LOW	20 AWG	CABLE	MS169 (3)

X390					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-41-2	12 AWG	GXL	C001-J8 (1)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X385					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-40-3	16 AWG	GXL	X392 (1)
1	BLK	0-41-3	16 AWG	GXL	X392 (3)

C001-J8					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-41-2	12 AWG	GXL	X390 (1)
2	YEL	2-25-1	12 AWG	GXL	X387 (1)

X472B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN HI	20 AWG	J1939 CABLE	MS41 (1)
2	GRN	CAN LOW	20 AWG	J1939 CABLE	MS41 (3)
3	SHLD	CAN SHIELD	20 AWG	J1939 CABLE	MS41 (5)

X472A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN HI	20 AWG	J1939 CABLE	X33A (3)
2	GRN	CAN LOW	20 AWG	J1939 CABLE	X33A (2)
3	SHLD	CAN SHIELD	20 AWG	J1939 CABLE	X33A (1)

X386					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	PWR	20 AWG	CABLE	X180 (2)

X32					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49-9 ANALPWR	18 AWG	GXL	C001-J2 (26)
2	WHT	49-8 RX	18 AWG	GXL	C001-J2 (28)
3	WHT	49-7 TZX	18 AWG	GXL	C001-J2 (29)
4	WHT	49-6 ANALGND	18 AWG	GXL	C001-J2 (27)

MS169					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	CAN HI	20 AWG	CABLE	X180 (4)
2	BLU	CAN HI	20 AWG	CABLE	X44A (3)
3	GRY	CAN LOW	20 AWG	CABLE	X180 (5)
4	GRY	CAN LOW	20 AWG	CABLE	X44A (4)
5	SHLD	CAN SHIELD	20 AWG	J1939 CABLE	MS41 (7)
6	GRY	CAN SHIELD	20 AWG	CABLE	X44A (5)
7					
8					
9	GRN	CAN LOW	20 AWG	J1939 CABLE	MS41 (9)
10					
11					
12	YEL	CAN HI	20 AWG	J1939 CABLE	MS41 (11)

X5A PLATFORM SENSOR					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1		FUSIBLE LINK	14 AWG	FUSIBLE LINK	FC250 (1)
2	BLK	P6 SKYG GND	18 AWG	GXL	AH30 - (1)
3					
4	WHT	P1 SKYG INPUT #1	20 AWG	GXL	C001-J7 (18)
5	WHT	P3 SKYG INPUT #2	20 AWG	GXL	C001-J1 (2)
6					

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

C001-J1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49-20 PROX NC	18 AWG	GXL	X33A (15)
2	WHT	P3 SKYG INPUT #2	20 AWG	GXL	X5A (5)
3	WHT	29-1 JTELE IN	18 AWG	GXL	SW14 (1)
4	WHT	29-2 JTELE OUT	18 AWG	GXL	SW14 (3)
5	WHT	13-1 MTELE IN	18 AWG	GXL	SW23 (1)
6	WHT	13-2 MTELE OUT	18 AWG	GXL	SW23 (3)
7	WHT	23-1 P ROT RT	18 AWG	GXL	SW13 (1)
8	WHT	23-2 P ROT LT	18 AWG	GXL	SW13 (3)
9	WHT	25-1 PLVL UP	18 AWG	GXL	SW17 (1)
10	WHT	25-2 PLVL DN	18 AWG	GXL	SW17 (3)
11	WHT	27-1 JIB UP	18 AWG	GXL	SW21 (1)
12	WHT	27-2 JIB DN	18 AWG	GXL	SW21 (3)
13	BLK	0-3	18 AWG	GXL	SW10 (5)
14	WHT	48-3 STRT	18 AWG	GXL	SW25 (1)
15	WHT	53-1 AUX	18 AWG	GXL	SW25 (3)
16	WHT	55-2 CRB STR	18 AWG	GXL	SW16 (1)
17	WHT	55-3 CRD STR	18 AWG	GXL	SW16 (3)
18	YEL	2-1	18 AWG	GXL	SW15 (2)
19					
20	WHT	49-50 PROX NC	18 AWG	GXL	X36A (4)
21	WHT	54-3 CPCITY SW	18 AWG	GXL	SW26 (3)
22	WHT	49-16 ENVLP	18 AWG	GXL	SW24 (3)
23	WHT	39-2 AXL EXT	18 AWG	GXL	SW18 (1)
24	WHT	39-3 AXL RET	18 AWG	GXL	SW18 (3)
25	WHT	49-18 PLVL 1	18 AWG	GXL	X36A (2)
26	WHT	49-17 PLVL 2	18 AWG	GXL	X36A (16)
27	WHT	48-2 2 SPD	18 AWG	GXL	SW15 (3)
28	WHT	48-1 ENG SPD	18 AWG	GXL	SW15 (1)
29	WHT	49-15 SFT TOUCH	18 AWG	GXL	SW20-2 (1)
30	WHT	52-3 HEAD/TAIL LT	18 AWG	GXL	SW22-2 (1)
31	WHT	52-2 HORN	18 AWG	GXL	SW08-2 (1)
32	WHT	49-14 CREEP	18 AWG	GXL	SW10 (2)
33	WHT	49-19 PROX NO	18 AWG	GXL	X33A (13)
34	WHT	55-4 POT REF	18 AWG	GXL	SW10 (4)
35	WHT	55-5 PUMP POT	18 AWG	GXL	SW10 (6)

C001-J2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	59-1 JSWG RT	18 AWG	GXL	SW19 (1)
2	WHT	59-2 JSWG LT	18 AWG	GXL	SW19 (3)
3	YEL	2-8	18 AWG	GXL	X38A (8)
4	WHT	55-6 DOS	18 AWG	GXL	SW27 (1)
5					
6	WHT	49-1 TILT	18 AWG	GXL	GD04-J4 (5)
7	YEL	2-2 ENABLE	18 AWG	GXL	GD04-J2 (2)
8	WHT	47-2 SYS FAIL	18 AWG	GXL	GD04-J3 (6)
9	WHT	49-5 CREEP	18 AWG	GXL	GD04-J2 (1)
10	WHT	49-3 BRKN CABLE	18 AWG	GXL	GD04-J3 (5)
11	WHT	49-2 OVERLOAD	18 AWG	GXL	GD04-J4 (3)
12	WHT	54-1 500LB MODE	18 AWG	GXL	GD04-J4 (4)
13	WHT	54-2 1000LB MODE	18 AWG	GXL	GD04-J3 (4)
14	WHT	39-1 AXL SET	18 AWG	GXL	GD04-J3 (2)
15	WHT	52-1 GEN	18 AWG	GXL	GD04-J4 (2)
16	WHT	49-21 SFTCH LT	18 AWG	GXL	LB12+ (1)
17	WHT	48-1 ENG PREHEAT	18 AWG	GXL	GD04-J4 (6)
18	BLK	0-2	18 AWG	GXL	GD04-J2 (6)
19	WHT	49-4 BCS	18 AWG	GXL	GD04-J3 (1)
20	WHT	47-1 PLTFM LVL FAIL	18 AWG	GXL	GD04-J4 (1)
21	WHT	47-5 LOW FUL	18 AWG	GXL	GD04-J2 (3)
22	WHT	47-1 FUL 1/4	18 AWG	GXL	GD04-J1 (1)
23	WHT	47-3 FUL 3/4	18 AWG	GXL	GD04-J1 (3)
24	WHT	47-2 FUL 1/2	18 AWG	GXL	GD04-J1 (2)
25	BLK	0-1	18 AWG	GXL	GD04-J1 (4)
26	WHT	49-9 ANALPWR	18 AWG	GXL	X32 (1)
27	WHT	49-6 ANALGND	18 AWG	GXL	X32 (4)
28	WHT	49-8 RX	18 AWG	GXL	X32 (2)
29	WHT	49-7 TX	18 AWG	GXL	X32 (3)
30	WHT	55-1 DRV ORNT	18 AWG	GXL	GD04-J3 (3)
31	WHT	59-6 JIB LOK	18 AWG	GXL	LB320+ (1)
32	YEL	2-6	18 AWG	GXL	S40 (1)
33	YEL	2-7	18 AWG	GXL	X38A (2)
34					
35	WHT	47-4 FUL FULL	18 AWG	GXL	GD04-J1 (6)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

C001-J7					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-5	18 AWG	GXL	X33A (11)
2	RED	1-4-3 PLTF MODE	18 AWG	GXL	SW35-1A (1A)
3	YEL	2-4	18 AWG	GXL	X33A (4)
4	BRN	49-11 X43 PWR	20 AWG	CABLE	X43A (1)
5	WHT	23-3 PROT LT	18 AWG	GXL	X36A (8)
6	WHT	23-4 PROT RT	18 AWG	GXL	X36A (9)
7	BRN	49-13 X44 PWR	20 AWG	CABLE	X44A (1)
8	WHT	49-25 FTSW OPEN	18 AWG	GXL	X38A (7)
9	WHT	52-4 GEN	18 AWG	GXL	X38A (1)
10					
11					
12					
13					
14	WHT	49-12 X44 GND	20 AWG	CABLE	X44A (2)
15	WHT	25-3 PLVL UP	18 AWG	GXL	S45 (1)
16	WHT	25-4 PLVL DN	18 AWG	GXL	S46 (1)
17					
18	WHT	P1 SKYG INPUT #1	20 AWG	GXL	X5A (4)
19	WHT	49-26 ALARM	18 AWG	GXL	AH30+ (1)
20	BLK	0-5	18 AWG	GXL	AH30- (1)
21	WHT	49-22 GND	18 AWG	GXL	X36A (3)
22					
23					
24					
25	WHT	55-26 JLOCK IN	18 AWG	GXL	X36A (10)
26	WHT	55-25 JLOCK OUT	18 AWG	GXL	X36A (11)
27					
28					
29	BLK	0-4	18 AWG	GXL	X36A (12)
30	GRN	CAN LOW	20 AWG	J1939 CABLE	MS41 (4)
31	YEL	CAN HI	20 AWG	J1939 CABLE	MS41 (2)
32	SHLD	CAN SHIELD	20 AWG	J1939 CABLE	MS41 (6)
33	WHT	49-23 GND	18 AWG	GXL	X36A (17)
34	WHT	49-10 X43 GND	20 AWG	CABLE	X43A (2)
35					

AH30+					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49-26 ALARM	18 AWG	GXL	C001- J7 (19)

AH30-					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-5	18 AWG	GXL	C001- J7 (20)
1	BLK	P6 SKYG GND	18 AWG	GXL	X54 (2)

MS41					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN HI	20 AWG	J1 939 CABLE	X472B (1)
2	YEL	CAN HI	20 AWG	J1 939 CABLE	C001- J7 (31)
3	GRN	CAN LOW	20 AWG	J1 939 CABLE	X472B (2)
4	GRN	CAN LOW	20 AWG	J1 939 CABLE	C001- J7 (30)
5	SHLD	CAN SHIELD	20 AWG	J1 939 CABLE	X472B (3)
6	SHLD	CAN SHIELD	20 AWG	J1 939 CABLE	C001- J7 (32)
7	SHLD	CAN SHIELD	20 AWG	J1 939 CABLE	MS169 (5)
8	GRY	CAN SHIELD	20 AWG	CABLE	X43A (5)
9	GRN	CAN LOW	20 AWG	J1 939 CABLE	MS169 (9)
10	BLK	CAN LOW	20 AWG	CABLE	X43A (4)
11	YEL	CAN HI	20 AWG	J1 939 CABLE	MS169 (12)
12	BLU	CAN HI	20 AWG	CABLE	X43A (3)

X384					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0- 40	12 AWG	GXL	X33A (16)

X391					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0- 41	12 AWG	GXL	X33A (18)

X398					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2- 25	12 AWG	GXL	S480 (1)

X399					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2- 26	12 AWG	GXL	S481 (1)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X387					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-25-1	12 AWG	GXL	C001-J8 (2)

X38A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	52-4 GEN	18 AWG	GXL	C001-J7 (9)
2	YEL	2-7	18 AWG	GXL	C001-J2 (33)
3	WHT	2-8-1	18 AWG	GXL	S301 (1)
4	WHT	49-27	18 AWG	GXL	X38A (5)
5	WHT	49-27	18 AWG	GXL	X38A (4)
6	YEL	2-8-1	18 AWG	GXL	X38A (8)
7	WHT	49-25 FTSW OPEN	18 AWG	GXL	C001-J7 (8)
8	YEL	2-8-1	18 AWG	GXL	X38A (6)
8	YEL	2-8	18 AWG	GXL	C001-J2 (3)
9					
10					
11					
12					
13					
14					
15					

X38B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2					
3	WHT	P8	18 AWG	GXL	X38B (6)
4					
5					
6	WHT	P8	18 AWG	GXL	X38B (3)
7					
8					
8					
9					
10					
11					
12					
13					
14					
15					

X388					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-7	16 AWG	TXL	X36A (19)
1	BLK	0-8	18 AWG	GXL	X36A (5)

SW10					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2	WHT	49-14 CREEP	18 AWG	GXL	C001-J1 (32)
3	YEL	2-1-5	18 AWG	GXL	SW08-1 (1)
3	YEL	2-1-7	18 AWG	GXL	SW13 (2)
4	WHT	55-4 POT REF	18 AWG	GXL	C001-J1 (34)
5	BLK	0-3	18 AWG	GXL	C001-J1 (13)
6	WHT	55-5 PUMP POT	18 AWG	GXL	C001-J1 (35)

SW15 HIGH DRIVE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	48-1 ENG SPD	18 AWG	GXL	C001-J1 (28)
2	YEL	2-1	18 AWG	GXL	C001-J1 (18)
2	YEL	2-1-1	18 AWG	GXL	SW16 (2)
3	WHT	48-2 2 SPD	18 AWG	GXL	C001-J1 (27)

SW16 STEER MODE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-2 CRB STR	18 AWG	GXL	C001-J1 (16)
2	YEL	2-1	18 AWG	GXL	SW15 (2)
2	YEL	2-1-1	18 AWG	GXL	SW17 (2)
3	WHT	55-3 CRD STR	18 AWG	GXL	C001-J1 (17)

SW17 PLTFM LEVEL					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	25-1 PLVL UP	18 AWG	GXL	C001-J1 (9)
2	YEL	2-1-2	18 AWG	GXL	SW16 (2)
2	YEL	2-1-3	18 AWG	GXL	SW18 (2)
3	WHT	25-2 PLVL DN	18 AWG	GXL	C001-J1 (10)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

SW18 AXLE EXT/ RET					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	39- 2 AXL EXT	18 AWG	GXL	C001- J1 (23)
2	YEL	2- 1- 3	18 AWG	GXL	SW17 (2)
2	YEL	2- 1- 4	18 AWG	GXL	SW08- 1 (1)
3	WHT	39- 3 AXL RET	18 AWG	GXL	C001- J1 (24)

SW08- 1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2- 1- 4	18 AWG	GXL	SW18 (2)
1	YEL	2- 1- 5	18 AWG	GXL	SW10 (3)

SW08- 2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	52- 2 HORN	18 AWG	GXL	C001- J1 (31)

GD04- J4					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	47- 1 PLTFM LVL FAIL	18 AWG	GXL	C001- J2 (20)
2	WHT	52- 1 GEN	18 AWG	GXL	C001- J2 (15)
3	WHT	49- 2 OVERLOAD	18 AWG	GXL	C001- J2 (11)
4	WHT	54- 1 500LB MODE	18 AWG	GXL	C001- J2 (12)
5	WHT	49- 1 TILT	18 AWG	GXL	C001- J2 (6)
6	WHT	48- 1 ENG PREHEAT	18 AWG	GXL	C001- J2 (17)

GD04- J3					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49- 4 BCS	18 AWG	GXL	C001- J2 (19)
2	WHT	39- 1 AXL SET	18 AWG	GXL	C001- J2 (14)
3	WHT	55- 1 DRV ORNT	18 AWG	GXL	C001- J2 (30)
4	WHT	54- 2 1000LB MODE	18 AWG	GXL	C001- J2 (13)
5	WHT	49- 3 BRKN CABLE	18 AWG	GXL	C001- J2 (10)
6	WHT	47- 2 SYS FAIL	18 AWG	GXL	C001- J2 (8)

LB320-					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0- 1- 2- 2	18 AWG	GXL	LB12- (1)

LB320+					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	59- 6 JIB LOK	18 AWG	GXL	C001- J2 (31)

LB12+					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49- 21 SFTCH LT	18 AWG	GXL	C001- J2 (16)

LB12-					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0- 1- 2	18 AWG	GXL	GD04- J1 (4)
1	BLK	0- 1- 2- 2	18 AWG	GXL	LB320- (1)

SW20- 2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49- 15 SFT TOUCH	18 AWG	GXL	GD01- J1 (29)

SW20- 1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2- 1- 10	18 AWG	GXL	SW19 (2)
1	YEL	2- 1- 11	18 AWG	GXL	SW21 (2)

SW22- 1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2- 1- 12	18 AWG	GXL	SW21 (2)
1	YEL	2- 1- 13	18 AWG	GXL	SW23 (2)

SW22- 2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	52- 3 HEAD/ TAIL LT	18 AWG	GXL	C001- J1 (30)

SW23 MAIN BOOM TELE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	13- 1 MTELE IN	18 AWG	GXL	C001- J1 (5)
2	YEL	2- 1- 13	18 AWG	GXL	SW22- 1 (1)
2	YEL	2- 1- 14	18 AWG	GXL	SW24 (2)
3	WHT	13- 2 MTELE OUT	18 AWG	GXL	C001- J1 (6)

SW21 JIB LIFT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	27- 1 JIB UP	18 AWG	GXL	C001- J1 (11)
2	YEL	2- 1- 11	18 AWG	GXL	SW20- 1 (1)
2	YEL	2- 1- 12	18 AWG	GXL	SW22- 1 (1)
3	WHT	27- 2 JIB DN	18 AWG	GXL	C001- J1 (12)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X397					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLU	GND	20 AWG	CABLE	X180 (3)

SW19 JIB SWING					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	59- 1 JSWG RT	18 AWG	GXL	C001- J2 (1)
2	YEL	2- 1- 10	18 AWG	GXL	SW20- 1 (1)
2	YEL	2- 1- 9	18 AWG	GXL	SW14 (2)
3	WHT	59- 2 JSWG LT	18 AWG	GXL	C001- J2 (2)

SW14 JIB TELE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	29- 1 JTELE IN	18 AWG	GXL	C001- J1 (3)
2	YEL	2- 1- 8	18 AWG	GXL	SW13 (2)
2	YEL	2- 1- 9	18 AWG	GXL	SW19 (2)
3	WHT	29- 2 JTELE OUT	18 AWG	GXL	C001- J1 (4)

SW13 PLTFM ROTATE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	23- 1 P ROT RT	18 AWG	GXL	C001- J1 (7)
2	YEL	2- 1- 7	18 AWG	GXL	SW10 (3)
2	YEL	2- 1- 8	18 AWG	GXL	SW14 (2)
3	WHT	23- 2 P ROT LT	18 AWG	GXL	C001- J1 (8)

GD04- J2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49- 5 CREEP	18 AWG	GXL	C001- J2 (9)
2	YEL	2- 2 ENABLE	18 AWG	GXL	C001- J2 (7)
3	WHT	47- 5 LOW FUL	18 AWG	GXL	C001- J2 (21)
4					
5					
6	BLK	0- 2	18 AWG	GXL	C001- J2 (18)

SW24 BOOM CONTROL					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2	YEL	2- 1- 14	18 AWG	GXL	SW23 (2)
2	YEL	2- 1- 15	18 AWG	GXL	SW25 (2)
3	WHT	49- 16 ENVLP	18 AWG	GXL	C001- J1 (22)

GD04- J1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	47- 1 FUL 1/4	18 AWG	GXL	C001- J2 (22)
2	WHT	47- 2 FUL 1/2	18 AWG	GXL	C001- J2 (24)
3	WHT	47- 3 FUL 3/4	18 AWG	GXL	C001- J2 (23)
4	BLK	0- 1	18 AWG	GXL	C001- J2 (25)
4	BLK	0- 1- 2	18 AWG	GXL	LB12- 1
5					
6	WHT	47- 4 FUL FULL	18 AWG	GXL	C001- J2 (35)

SW35- 2A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
2A	RED	1- 4- 3	18 AWG	GXL	X33A (5)

SW35- 1A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1A	RED	1- 4- 3 PLTF MODE	18 AWG	GXL	C001- J7 (2)

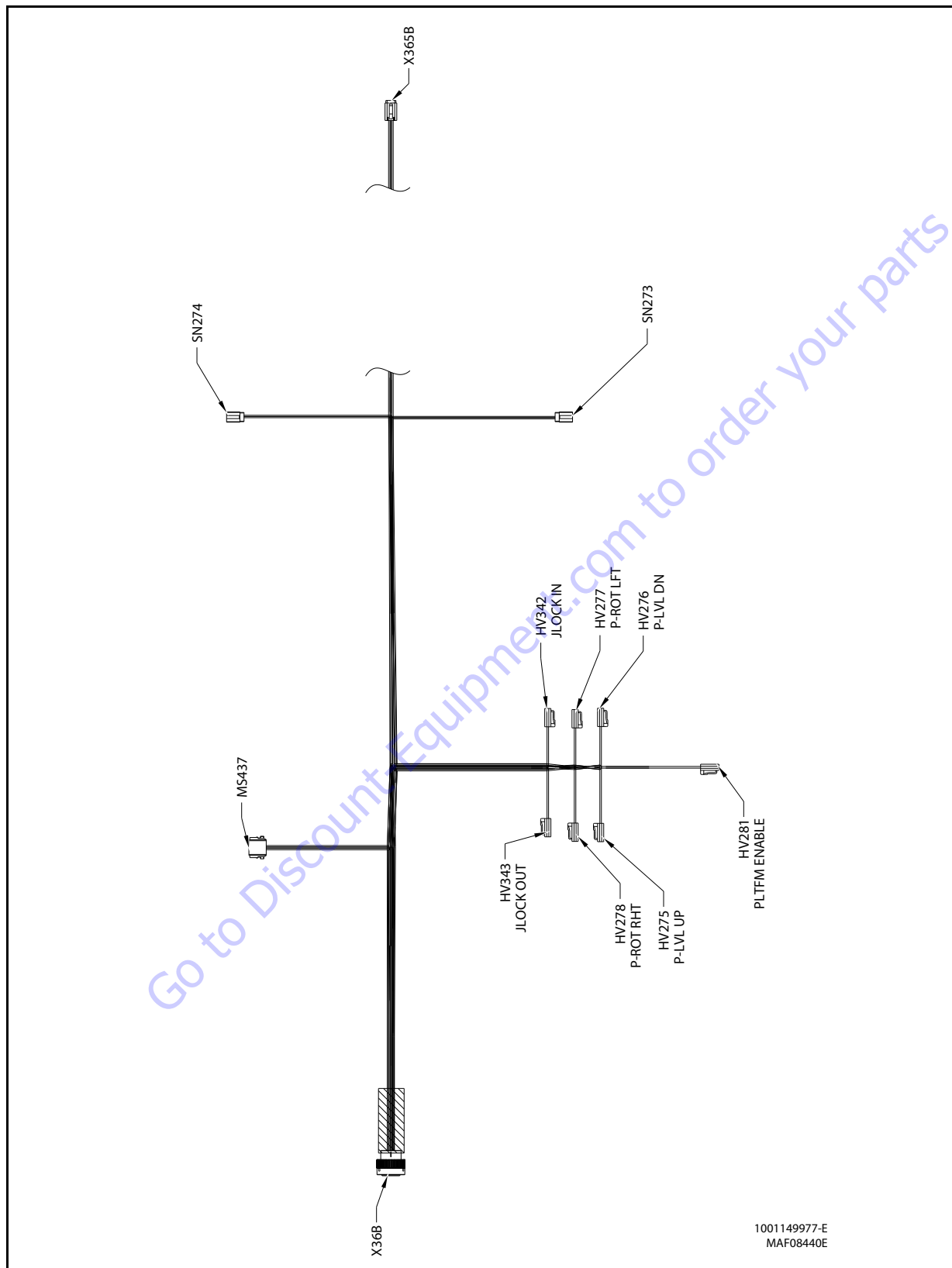


Figure 7-27. Platform Valve Wiring Harness

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X36B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	CABLE	18 AWG	CABLE	SN274 (1)
2	BLU	CABLE	18 AWG	CABLE	SN274 (2)
3	BLK	CABLE	18 AWG	CABLE	SN274 (3)
4	BLU	CABLE	16 AWG	CABLE	X365B (3)
5	SHIELD	SHIELD	18 AWG	SHLD	NC ()
6	WHT	25-4-2 PLVL DN	18 AWG	GXL	HV276 (1)
7	WHT	25-3-2 PLVL UP	18 AWG	GXL	HV275 (1)
8	WHT	23-3 PROT LT	18 AWG	GXL	HV277 (1)
9	WHT	23-4 PROT RT	18 AWG	GXL	HV278 (1)
10	WHT	55-26 JLOCK IN	18 AWG	GXL	HV342 (1)
11	WHT	55-25 JLOCK OUT	18 AWG	GXL	HV343 (1)
12	BLK	0-4	18 AWG	GXL	MS437 (8)
13	ORG	CABLE	16 AWG	CABLE	X365B (2)
14	BLK	CABLE	16 AWG	CABLE	X365B (4)
15	ORG	CABLE	18 AWG	CABLE	SN273 (1)
16	YEL	CABLE	18 AWG	CABLE	SN273 (2)
17	BLK	CABLE	18 AWG	CABLE	SN273 (3)
18	WHT	25-5 PLTFRM DUMP	16 AWG	GXL	HV281 (1)
19	BLK	0-7	16 AWG	GXL	HV281 (2)
20	RED	CABLE	16 AWG	CABLE	X365B (1)
21					

MS437					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-4-4	18 AWG	GXL	HV278 (2)
2	BLK	0-4-3	18 AWG	GXL	HV277 (2)
3	BLK	0-4-1	18 AWG	GXL	HV275 (2)
4	BLK	0-4-2	18 AWG	GXL	HV276 (2)
5					
6	BLK	0-4-6	18 AWG	GXL	HV343 (2)
7	BLK	0-4-5	18 AWG	GXL	HV342 (2)
8	BLK	0-4	18 AWG	GXL	X36B (12)

HV342 JLOCK IN					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-26 JLOCK IN	18 AWG	GXL	X36B (10)
2	BLK	0-4-5	18 AWG	GXL	MS437 (7)

HV278 P-ROT RHT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	23-4 PROT RT	18 AWG	GXL	X36B (9)
2	BLK	0-4-4	18 AWG	GXL	MS437 (1)

HV275 P-LVL UP					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	25-3-2 PLVL UP	18 AWG	GXL	X36B (7)
2	BLK	0-4-1	18 AWG	GXL	MS437 (3)

HV343 JLOCK OUT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-25 JLOCK OUT	18 AWG	GXL	X36B (11)
2	BLK	0-4-6	18 AWG	GXL	MS437 (6)

HV277 P-ROT LFT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	23-3 PROT LT	18 AWG	GXL	X36B (8)
2	BLK	0-4-3	18 AWG	GXL	MS437 (2)

SN274					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	CABLE	18 AWG	CABLE	X36B (1)
2	BLU	CABLE	18 AWG	CABLE	X36B (2)
3	BLK	CABLE	18 AWG	CABLE	X36B (3)

X365B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	CABLE	16 AWG	CABLE	X36B (20)
2	ORG	CABLE	16 AWG	CABLE	X36B (13)
3	BLU	CABLE	16 AWG	CABLE	X36B (4)
4	BLK	CABLE	16 AWG	CABLE	X36B (14)

SN273					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	ORG	CABLE	18 AWG	CABLE	X36B (15)
2	YEL	CABLE	18 AWG	CABLE	X36B (16)
3	BLK	CABLE	18 AWG	CABLE	X36B (17)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

HV281 PLTFM ENABLE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	25-5 PLTFRM DUMP	16 AWG	GXL	X36B (18)
2	BLK	0-7	16 AWG	GXL	X36B (19)

HV276 P-LVL DN					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	25-4-2 PLVL DN	18 AWG	GXL	X36B (6)
2	BLK	0-4-2	18 AWG	GXL	MS437 (4)

Go to Discount-Equipment.com to order your parts

Go to Discount-Equipment.com to order your parts

This page left blank intentionally

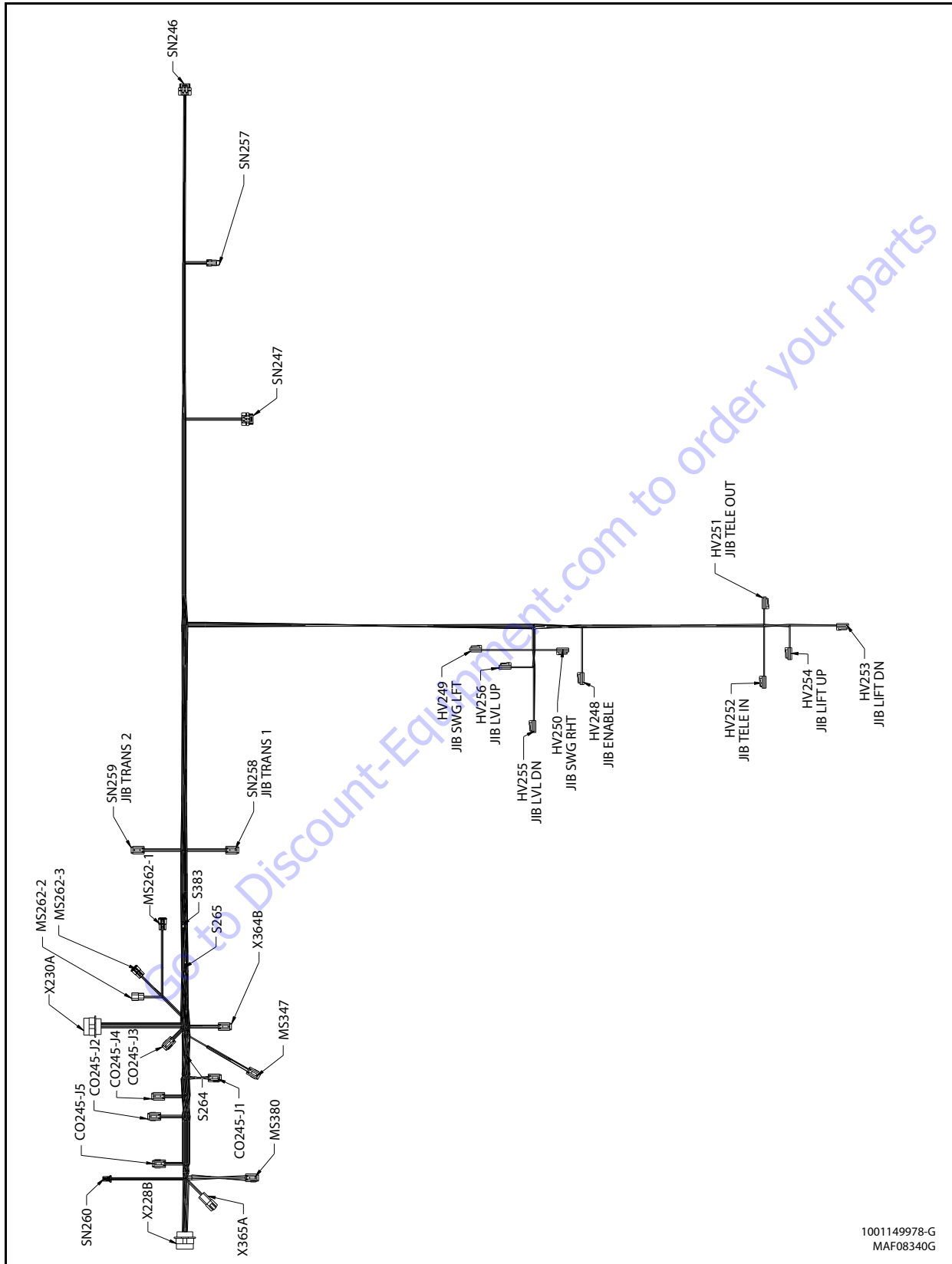


Figure 7-28. Jib Valve Wiring Harness

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

S264					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	27-5-1 JIB UP	18AWG	GXL	CO245-J5(1)
1	WHT	27-6-1 J-UP O/R	18AWG	GXL	CO245-J2(2)
2	WHT	27-5-2 JIB UP	18AWG	GXL	HV254(1)

S265					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	27-3-1 JIB DN O/R	18AWG	GXL	CO245-J2(1)
1	WHT	27-4-1 JIB DN	18AWG	GXL	CO245-J5(2)
2	WHT	27-4-2 JIB DN	18AWG	GXL	HV253(1)

S383					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-27	18AWG	GXL	MS380(12)
2	BLK	0-27-1	18AWG	GXL	SN259(3)
2	BLK	0-47	16AWG	GXL	HV248(2)

SN246					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	BLK	GROUND	18AWG	CABLE	CO245-J3(12)
B	RED	5V PWR	18AWG	CABLE	CO245-J3(10)
C	BLU	SIGNAL	18AWG	CABLE	CO245-J3(8)
D	WHT	SIGNAL	18AWG	CABLE	CO245-J3(11)
E	GRN	GROUND	18AWG	CABLE	CO245-J3(9)
F	ORG	5V PWR	18AWG	CABLE	CO245-J3(7)

SN257					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-22	18AWG	GXL	CO245-J4(1)
2	WHT	49-42 LOCK NC	18AWG	GXL	CO245-J2(5)
3	BLK	0-23	18AWG	GXL	CO245-J4(2)
4	WHT	49-41 LOCK NO	18AWG	GXL	CO245-J2(4)

HV252 (JIB TELE IN)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	29-3-1 JIB IN	18AWG	GXL	CO245-J5(5)
2	BLK	0-26-3	18AWG	GXL	MS347(4)

SN247					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	BLK	GROUND	18AWG	CABLE	CO245-J3(6)
B	RED	5V PWR	18AWG	CABLE	CO245-J3(4)
C	BLU	SIGNAL	18AWG	CABLE	CO245-J3(2)
D	WHT	SIGNAL	18AWG	CABLE	CO245-J3(5)
E	GRN	GROUND	18AWG	CABLE	CO245-J3(3)
F	ORG	5V PWR	18AWG	CABLE	CO245-J3(1)

HV253 JIB LIFT DN					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	27-4-2 JIB DN	18AWG	GXL	S265(2)
2	BLK	0-26-2	18AWG	GXL	MS347(9)

HV254 JIB LIFT UP					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	27-5-2 JIB UP	18AWG	GXL	S264(2)
2	BLK	0-26-1	18AWG	GXL	MS347(10)

HV251 JIB TELE OUT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	29-4-1 JIB OUT	18AWG	GXL	CO245-J5(6)
2	BLK	0-26-4	18AWG	GXL	MS347(3)

HV248 JIB ENABLE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	50-3 JIB DUMP	16AWG	GXL	X364B(3)
2	BLK	0-47	16AWG	GXL	S383(2)

HV249 JIB SWG LFT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	59-2-1 JSWG LT	18AWG	GXL	CO245-J5(4)
2	BLK	0-26-6	18AWG	GXL	MS347(1)

HV255 (JIB LVL DN)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-19 JLVL DN	18AWG	GXL	CO245-J2(12)
2	BLK	0-25-2	18AWG	GXL	MS347(7)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

HV256 JIB LVL UP					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-20 JLVL UP	18AWG	GXL	CO245-J2(11)
2	BLK	0-25-1	18AWG	GXL	MS347(8)

HV250 JIB SWG RHT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	59-1-1 JSWG RT	18AWG	GXL	CO245-J5(3)
2	BLK	0-26-5	18AWG	GXL	MS347(2)

SN258 JIB TRANS 1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-21	18AWG	GXL	CO245-J4(7)
2	WHT	49-44 PROX 1NC	18AWG	GXL	CO245-J2(7)
3	BLK	0-24	18AWG	GXL	CO245-J4(8)
4	WHT	49-43 PROX 1NO	18AWG	GXL	CO245-J2(6)

SN259 JIB TRANS 2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-19	18AWG	GXL	MS380(9)
2	WHT	49-20 PROX NC	18AWG	GXL	X228B(15)
3	BLK	0-27-1	18AWG	GXL	S383(2)
4	WHT	49-19 PROX NO	18AWG	GXL	X228B(13)

MS262-1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CAN HI	20AWG	J1939CABLE	X228B(3)
B	GRN	CAN LOW	20AWG	J1939CABLE	X228B(2)
C	SHLD	SHIELD	20AWG	J1939CABLE	X228B(1)

MS262-2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	BLU	CAN HI	20AWG	CABLE	SN260(3)
B	BLK	CAN LOW	20AWG	CABLE	SN260(4)
C	GRY	SHIELD	20AWG	CABLE	SN260(5)

MS262-3					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CAN HI	20AWG	J1939CABLE	CO245-J4(3)
B	GRN	CAN LOW	20AWG	J1939CABLE	CO245-J4(4)
C	SHLD	SHIELD	20AWG	J1939CABLE	CO245-J4(5)

X364B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-7-2 WK LT PWR	16AWG	GXL	X365A(1)
2	RED	1-7-1 WK LT PWR	16AWG	GXL	X365A(2)
3	WHT	50-3 JIB DUMP	16AWG	GXL	HV248(1)
4	WHT	50-2 PLTFM DUMP	16AWG	GXL	X365A(4)

X230A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	SHLD	SHIELD	20AWG	J1939CABLE	CO245-J1(8)
2	GRN	CAN LOW	20AWG	J1939CABLE	CO245-J1(7)
3	YEL	CAN HI	20AWG	J1939CABLE	CO245-J1(6)
4	YEL	2-4	18AWG	GXL	X228B(4)
5	RED	1-4-3	18AWG	GXL	X228B(5)
6	YEL	2-15	18AWG	GXL	X228B(6)
7	WHT	25-5PLVL DN O/R	18AWG	GXL	X228B(7)
8					
9	WHT	25-6PLVL UP O/R	18AWG	GXL	X228B(9)
10	YEL	2-25	12AWG	GXL	MS380(7)
11	YEL	2-5	18AWG	GXL	X228B(11)
12	YEL	2-26	12AWG	GXL	MS380(6)
13	WHT	27-6 J-UP O/R	18AWG	GXL	CO245-J1(2)
14					
15	WHT	27-3 JIB DN O/R	18AWG	GXL	CO245-J1(1)
16	BLK	0-40	12AWG	GXL	MS380(10)
17					
18	BLK	0-41	12AWG	GXL	MS380(3)
19					

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

C0245-J3					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	ORG	5V PWR	18AWG	CABLE	SN247(F)
2	BLU	SIGNAL	18AWG	CABLE	SN247(C)
3	GRN	GROUND	18AWG	CABLE	SN247(E)
4	RED	5V PWR	18AWG	CABLE	SN247(B)
5	WHT	SIGNAL	18AWG	CABLE	SN247(D)
6	BLK	GROUND	18AWG	CABLE	SN247(A)
7	ORG	5V PWR	18AWG	CABLE	SN246(F)
8	BLU	SIGNAL	18AWG	CABLE	SN246(C)
9	GRN	GROUND	18AWG	CABLE	SN246(E)
10	RED	5V PWR	18AWG	CABLE	SN246(B)
11	WHT	SIGNAL	18AWG	CABLE	SN246(D)
12	BLK	GROUND	18AWG	CABLE	SN246(A)

C0245-J2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	27-3-1 JIB DN O/R	18AWG	GXL	S265(1)
2	WHT	27-6-1 J-UP O/R	18AWG	GXL	S264(1)
3	BLK	0-25	18AWG	GXL	MS347(11)
4	WHT	49-41 LOCK NO	18AWG	GXL	SN257(4)
5	WHT	49-42 LOCK NC	18AWG	GXL	SN257(2)
6	WHT	49-43 PROX 1NO	18AWG	GXL	SN258(4)
7	WHT	49-44PROX1NC	18AWG	GXL	SN258(2)
8					
9					
10					
11	WHT	55-20 JLV L UP	18AWG	GXL	HV256(1)
12	WHT	55-19 JLV L DN	18AWG	GXL	HV255(1)

MS347					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-26-6	18AWG	GXL	HV249(2)
2	BLK	0-26-5	18AWG	GXL	HV250(2)
3	BLK	0-26-4	18AWG	GXL	HV251(2)
4	BLK	0-26-3	18AWG	GXL	HV252(2)
5					
6					
7	BLK	0-25-2	18AWG	GXL	HV255(2)
8	BLK	0-25-1	18AWG	GXL	HV256(2)
9	BLK	0-26-2	18AWG	GXL	HV253(2)
10	BLK	0-26-1	18AWG	GXL	HV254(2)
11	BLK	0-25	18AWG	GXL	C0245-J2(3)
12	BLK	0-26	18AWG	GXL	C0245-J5(12)

C0245-J1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	27-3 JIB DN O/R	18AWG	GXL	X230A(15)
2	WHT	27-6 J-UP O/R	18AWG	GXL	X230A(13)
3					
4	BLK	0-28	14AWG	GXL	MS380(11)
5	YEL	2-18	14AWG	GXL	MS380(8)
6	YEL	CAN HI	20AWG	J1939CABLE	X230A(3)
7	GRN	CAN LOW	20AWG	J1939CABLE	X230A(2)
8	SHLD	SHIELD	20AWG	J1939CABLE	X230A(1)
9					
10					
11	BRN	2-20	20AWG	CABLE	SN260(1)
12	WHT	0-29	20AWG	CABLE	SN260(2)

C0245-J4					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-22	18AWG	GXL	SN257(1)
2	BLK	0-23	18AWG	GXL	SN257(3)
3	YEL	CAN HI	20AWG	J1939CABLE	MS262-3(A)
4	GRN	CAN LOW	20AWG	J1939CABLE	MS262-3(B)
5	SHLD	SHIELD	20AWG	J1939CABLE	MS262-3(C)
6					
7	YEL	2-21	18AWG	GXL	SN258(1)
8	BLK	0-24	18AWG	GXL	SN258(3)

SN260					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BRN	2-20	20AWG	CABLE	C0245-J1(11)
2	WHT	0-29	20AWG	CABLE	C0245-J1(12)
3	BLU	CAN HI	20AWG	CABLE	MS262-2(A)
4	BLK	CAN LOW	20AWG	CABLE	MS262-2(B)
5	GRY	SHIELD	20AWG	CABLE	MS262-2(C)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

C0245-J5					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	27-5-1 JIB UP	18AWG	GXL	S264(1)
2	WHT	27-4-1 JIB DN	18AWG	GXL	S265(1)
3	WHT	59-1-1 JSWG RT	18AWG	GXL	HV250(1)
4	WHT	59-2-1 JSWG LT	18AWG	GXL	HV249(1)
5	WHT	29-3-1 JIB IN	18AWG	GXL	HV252(1)
6	WHT	29-4-1 JIB OUT	18AWG	GXL	HV251(1)
7					
8					
9					
10					
11					
12	BLK	0-26	18AWG	GXL	MS347(12)

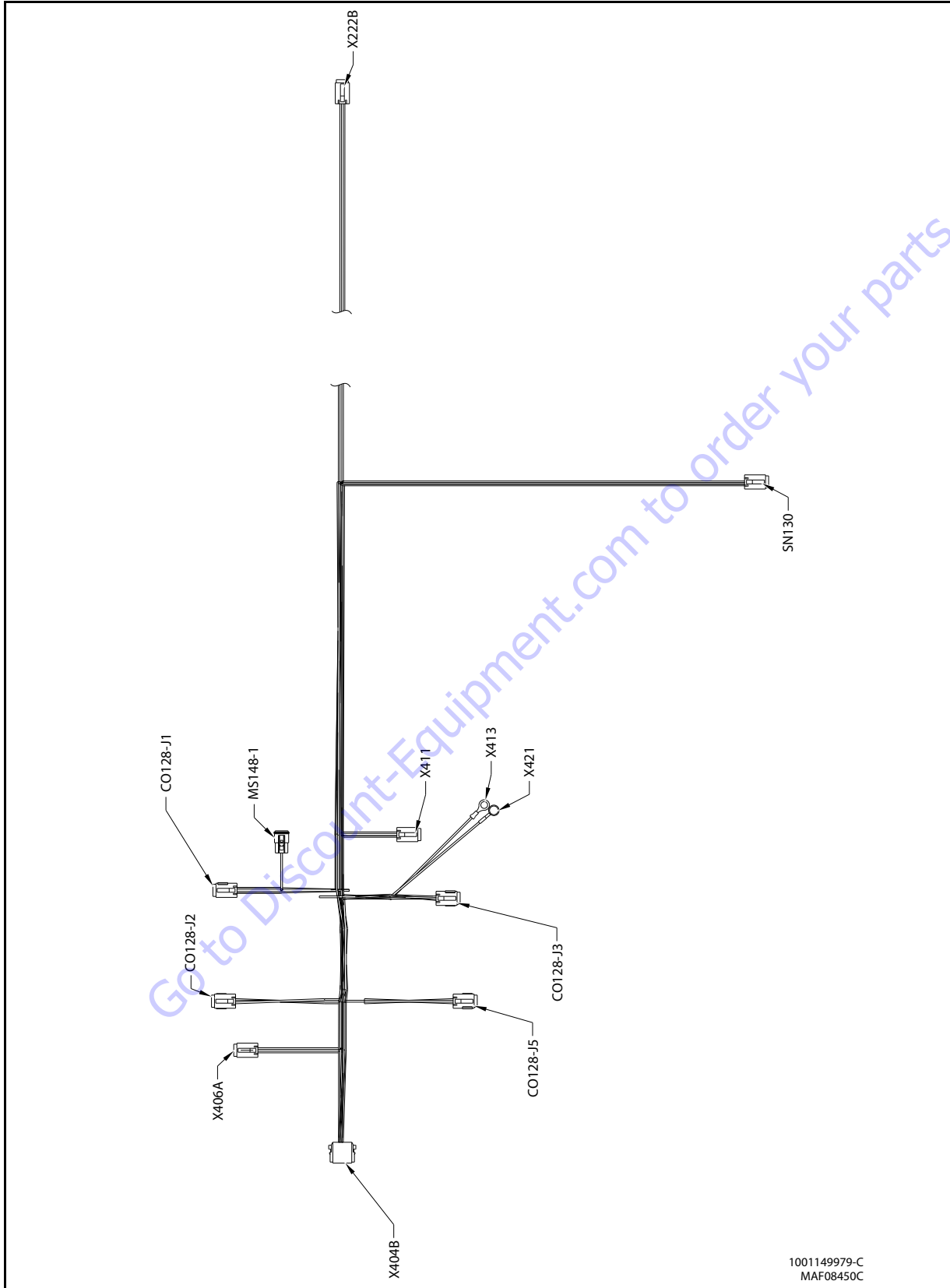
MS380					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-41	12AWG	GXL	X228B(18)
2	BLK	0-40	12AWG	GXL	X228B(16)
3	BLK	0-41	12AWG	GXL	X230A(18)
4	YEL	2-25	12AWG	GXL	X228B(10)
5	YEL	2-26	12AWG	GXL	X228B(12)
6	YEL	2-26	12AWG	GXL	X230A(12)
7	YEL	2-25	12AWG	GXL	X230A(10)
8	YEL	2-18	14AWG	GXL	C0245-J1(5)
9	YEL	2-19	18AWG	GXL	SN259(1)
10	BLK	0-40	12AWG	GXL	X230A(16)
11	BLK	0-28	14AWG	GXL	C0245-J1(4)
12	BLK	0-27	18AWG	GXL	S383(1)

X365A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-7-2 WK LT PWR	16AWG	GXL	X364B(1)
2	RED	1-7-1 WK LT PWR	16AWG	GXL	X364B(2)
3					
4	WHT	50-2 PLTFM DUMP	16AWG	GXL	X364B(4)

X228B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	SHLD	SHIELD	20AWG	J1939CABLE	MS262-1(C)
2	GRN	CAN LOW	20AWG	J1939CABLE	MS262-1(B)
3	YEL	CAN HI	20AWG	J1939CABLE	MS262-1(A)
4	YEL	2-4	18AWG	GXL	X230A(4)
5	RED	1-4-3	18AWG	GXL	X230A(5)
6	YEL	2-15	18AWG	GXL	X230A(6)
7	WHT	25-5 PLVL DN O/R	18AWG	GXL	X230A(7)
8					
9	WHT	25-6 PLVL UP O/R	18AWG	GXL	X230A(9)
10	YEL	2-25	12AWG	GXL	MS380(4)
11	YEL	2-5	18AWG	GXL	X230A(11)
12	YEL	2-26	12AWG	GXL	MS380(5)
13	WHT	49-19 PROX NO	18AWG	GXL	SN259(4)
14					
15	WHT	49-20 PROX NC	18AWG	GXL	SN259(2)
16	BLK	0-40	12AWG	GXL	MS380(2)
17					
18	BLK	0-41	12AWG	GXL	MS380(1)
19					

Go to Discount-Equipment.com to order your parts

This page left blank intentionally



1001149979-C
MAF08450C

Figure 7-29. BLAM Module Wiring Harness

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X404B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	B LENGTH	18AWG	CABLE	C0128-J3(7)
2	BLU	B LENGTH	18AWG	CABLE	C0128-J3(8)
3	BLK	B LENGTH	18AWG	CABLE	C0128-J3(9)
4					
5	RED	BRKN CBL PROX	18AWG	CABLE	X411(5)
6	BLU	BRKN CBL PROX	18AWG	CABLE	X411(3)
7	BLK	BRKN CBL PROX	18AWG	CABLE	X411(4)
8	SHIELD	BRKN CBL PROX	18AWG	SHLD	X411(6)

X406A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	1-10	18AWG	GXL	C0128-J5(9)
2	WHT	49-60 GRVTY SEN1	18AWG	GXL	C0128-J2(8)
3	BLK	0-55	18AWG	GXL	C0128-J2(3)
4					
5	YEL	1-11	18AWG	GXL	C0128-J2(1)
6	WHT	49-61 GRVTY SEN2	18AWG	GXL	C0128-J2(9)
7	BLK	0-56	18AWG	GXL	C0128-J2(2)
8					

C0128-J2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	1-11	18AWG	GXL	X406A(5)
2	BLK	0-56	18AWG	GXL	X406A(7)
3	BLK	0-55	18AWG	GXL	X406A(3)
4					
5					
6					
7					
8	WHT	49-60 GRVTY SEN1	18AWG	GXL	X406A(2)
9	WHT	49-61 GRVTY SEN2	18AWG	GXL	X406A(6)
10					
11	WHT	7-1 RDRV PFWD	18AWG	GXL	X222B(1)
12	WHT	7-2 RDRV PREV	18AWG	GXL	X222B(2)

X413					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	SHIELD	CABLE SHIELD	18AWG	SHLD	SN130(NC)
1	SHIELD	CABLE SHIELD	18AWG	SHLD	SN130(NC2)

C0128-J5					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	7-4 LDRV PFWD	18AWG	GXL	X222B(6)
2	WHT	7-3 LDRV PREV	18AWG	GXL	X222B(5)
3					
4					
5					
6					
7					
8					
9	YEL	1-10	18AWG	GXL	X406A(1)
10					
11					
12	BLK	0-15	18AWG	GXL	X222B(3)

X222B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	7-1 RDRV PFWD	18AWG	GXL	C0128-J2(11)
2	WHT	7-2 RDRV PREV	18AWG	GXL	C0128-J2(12)
3	BLK	0-15	18AWG	GXL	C0128-J5(12)
4					
5	WHT	7-3 LDRV PREV	18AWG	GXL	C0128-J5(2)
6	WHT	7-4 LDRV PFWD	18AWG	GXL	C0128-J5(1)

SN130					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	BANG 2	18AWG	CABLE	C0128-J3(12)
2	RED	BANG 2	18AWG	CABLE	C0128-J3(10)
3	BLU	BANG 2	18AWG	CABLE	C0128-J3(5)
4	BLK	BANG 1	18AWG	CABLE	C0128-J3(6)
5	RED	BANG 1	18AWG	CABLE	C0128-J3(4)
6	BLU	BANG 1	18AWG	CABLE	C0128-J3(11)

X421					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	SHIELD	B LENGTH	18AWG	SHLD	X404B(NC)

MS148-1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CAN HIGH	18AWG	GXL	C0128-J1(6)
B	GRN	CAN LOW	18AWG	GXL	C0128-J1(7)
C					

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X411					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-22	14AWG	GXL	C0128-J1(4)
2	YEL	2-10	14AWG	GXL	C0128-J1(5)
3	BLU	BRKN CBL PROX	18AWG	CABLE	X404B(6)
4	BLK	BRKN CBL PROX	18AWG	CABLE	X404B(7)
5	RED	BRKN CBL PROX	18AWG	CABLE	X404B(5)
6	SHIELD	BRKN CBL PROX	18AWG	SHLD	X404B(8)

C0128-J3					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	5V	18AWG	GXL	C0128-J3(2)
2	WHT	5V	18AWG	GXL	C0128-J3(1)
3					
4	RED	BANG 1	18AWG	CABLE	SN130(5)
5	BLU	BANG 2	18AWG	CABLE	SN130(3)
6	BLK	BANG 1	18AWG	CABLE	SN130(4)
7	RED	B LNGTH	18AWG	CABLE	X404B(1)
8	BLU	B LNGTH	18AWG	CABLE	X404B(2)
9	BLK	B LNGTH	18AWG	CABLE	X404B(3)
10	RED	BANG 2	18AWG	CABLE	SN130(2)
11	BLU	BANG 1	18AWG	CABLE	SN130(6)
12	BLK	BANG 2	18AWG	CABLE	SN130(1)

C0128-J1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	GND JUMP	18AWG	GXL	()
1	YEL	IGN JUMP	18AWG	GXL	C0128-J1(11)
2	BLK	GND JUMP	18AWG	GXL	C0128-J1(12)
2	YEL	IGN JUMP	18AWG	GXL	()
3					
4	BLK	0-22	14AWG	GXL	X411(1)
5	YEL	2-10	14AWG	GXL	X411(2)
6	YEL	CAN HIGH	18AWG	GXL	MS148-1(A)
7	GRN	CAN LOW	18AWG	GXL	MS148-1(B)
8					
9					
10					
11					
12					

Go to Discount-Equipment.com to order your parts

This page left blank intentionally

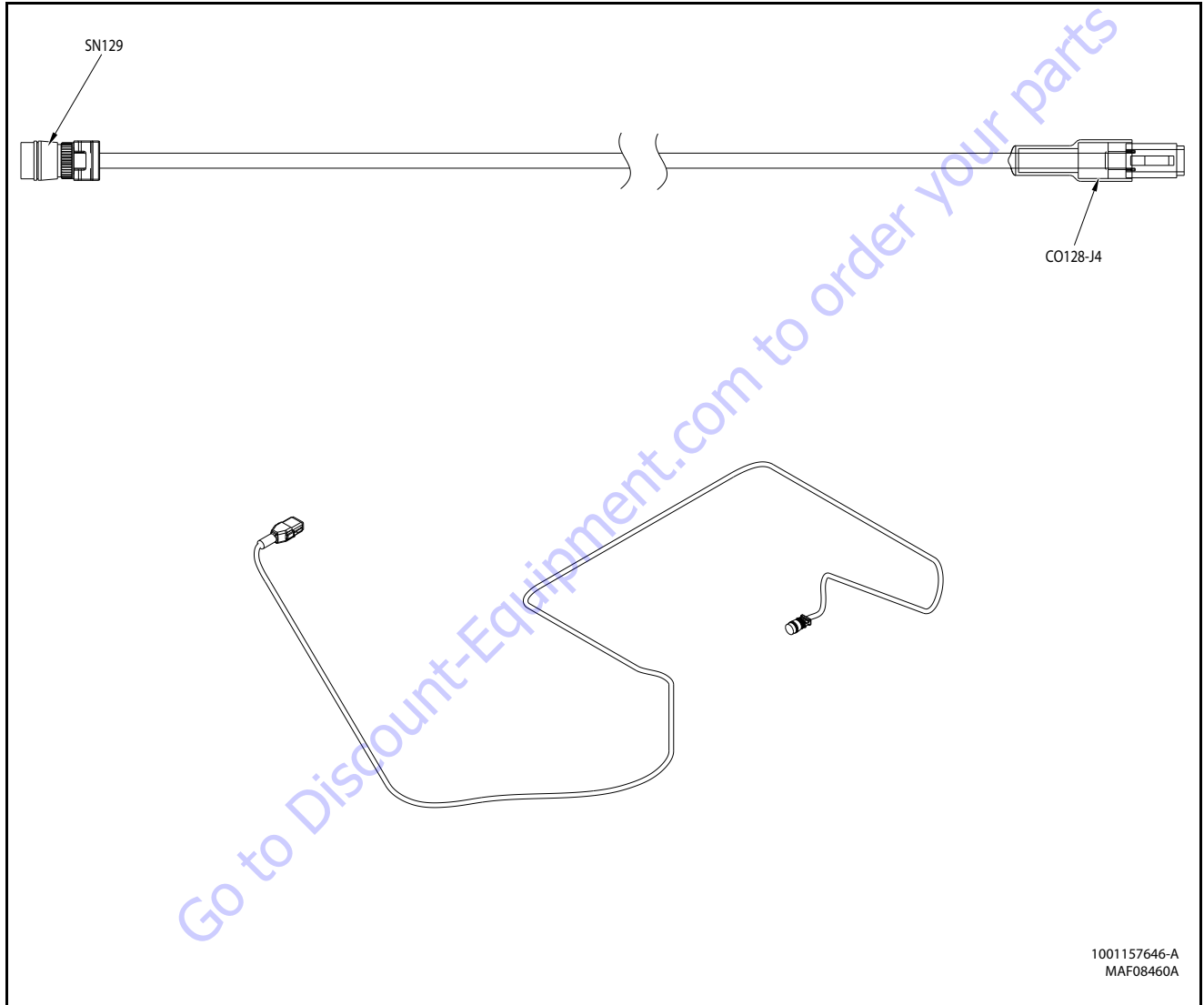


Figure 7-30. Load Sensing Pin Cable

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

SN129				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	RED	+B PWR SUP	22	PVC
B	BLK	-B GND SUP	22	PVC
C				
D	GRN	CAN HI	22	PVC
E	WHT	CAN LO	22	PVC
F				

C0128-J4				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	RED	+B PWR SUP	22	PVC
2	BLK	-B GND SUP	22	PVC
3	GRN	CAN HI	22	PVC
4	WHT	CAN LO	22	PVC
5	SHLD	SHIELD	22	PVC
6				
7				
8				

Go to Discount-Equipment.com to order your parts

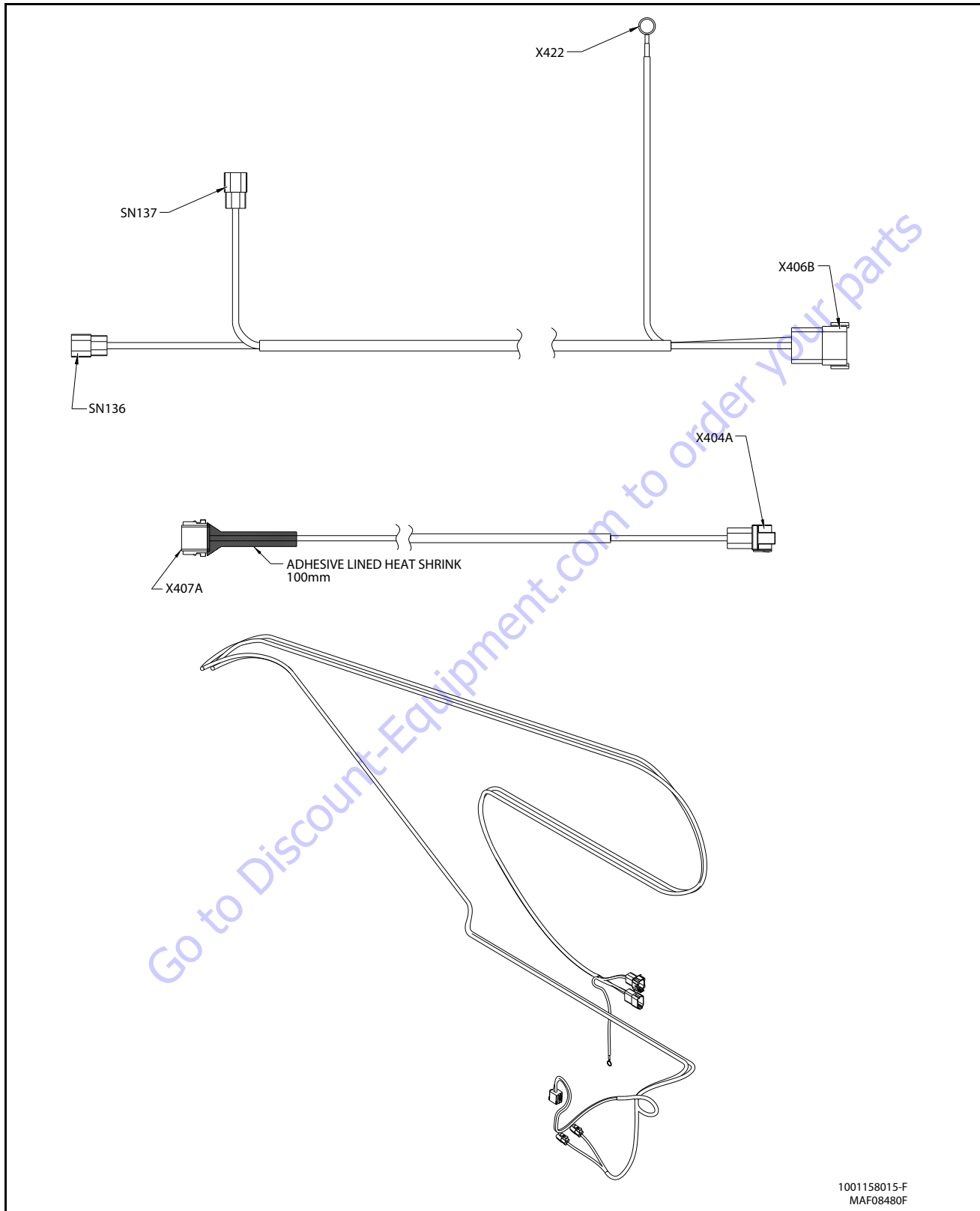


Figure 7-31. Base Boom Sensor Cable (Prior to SN 0300224828)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X407A				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	RED	B LNTH PWR	18 AWG	CABLE
2	BLUE	B LNTH SIG	18 AWG	CABLE
3	BLACK	B LNTH GND	18 AWG	CABLE
4	RED/BLACK		18 AWG	CABLE
5	YELLOW	BRKN CBL PWR	18 AWG	CABLE
6	ORANGE	BRKN CBL SIG	18 AWG	CABLE
7	BROWN	BRKN CBL GND	18 AWG	CABLE
8	SHIELD	CABLE SHIELD	18 AWG	CABLE

X404A				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	RED	B LNTH PWR	18 AWG	CABLE
2	BLUE	B LNTH SIG	18 AWG	CABLE
3	BLACK	B LNTH GND	18 AWG	CABLE
4	RED/BLACK		18 AWG	CABLE
5	YELLOW	BRKN CBL PWR	18 AWG	CABLE
6	ORANGE	BRKN CBL SIG	18 AWG	CABLE
7	BROWN	BRKN CBL GND	18 AWG	CABLE
8	SHIELD	CABLE SHIELD	18 AWG	CABLE

X406B				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	RED	#1 ANGLE PWR	18 AWG	CABLE
2	BLUE	#1 ANGLE SIG	18 AWG	CABLE
3	BLACK	#1 ANGLE GND	18 AWG	CABLE
4	RED/BLACK		18 AWG	CABLE
5	YELLOW	#2 ANGLE PWR	18 AWG	CABLE
6	ORANGE	#2 ANGLE SIG	18 AWG	CABLE
7	BROWN	#2 ANGLE GND	18 AWG	CABLE
8	BLUE/BLACK		18 AWG	CABLE

X422				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	BRN/BLK	CABLE SHIELD	18 AWG	CABLE

SN136				
BOOM ANGLE SENSOR #1 RIGHT SIDE				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	RED	#1 ANGLE PWR	18 AWG	CABLE
B	BLUE	#1 ANGLE SIG	18 AWG	CABLE
C	BLACK	#1 ANGLE GND	18 AWG	CABLE

SN137				
BOOM ANGLE SENSOR #2 LEFT SIDE				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	YELLOW	#2 ANGLE PWR	18 AWG	CABLE
B	ORANGE	#2 ANGLE SIG	18 AWG	CABLE
C	BROWN	#2 ANGLE GND	18 AWG	CABLE

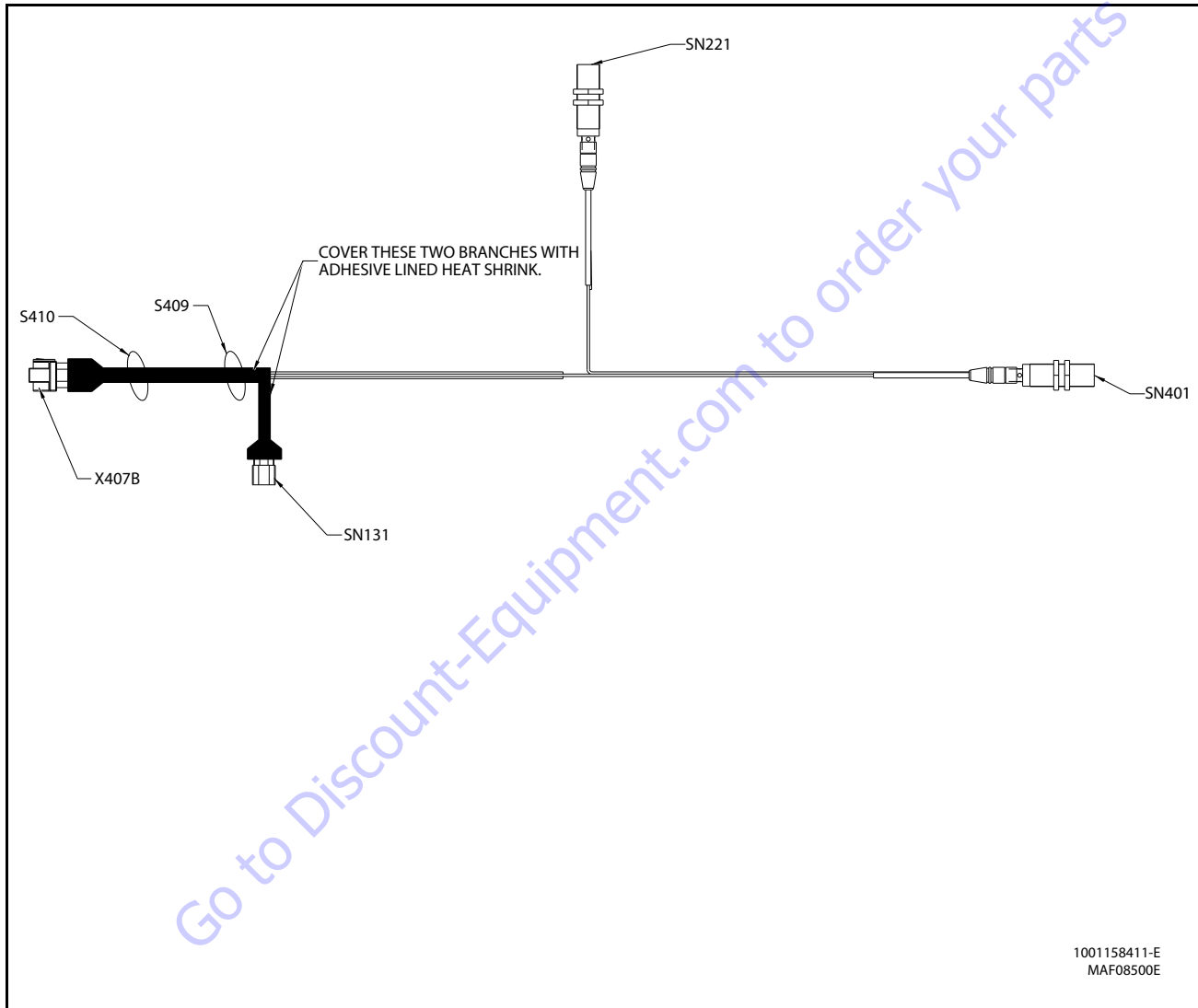


Figure 7-32. Base Boom Harness (Prior to SN 0300224828) - Sheet 1 of 2

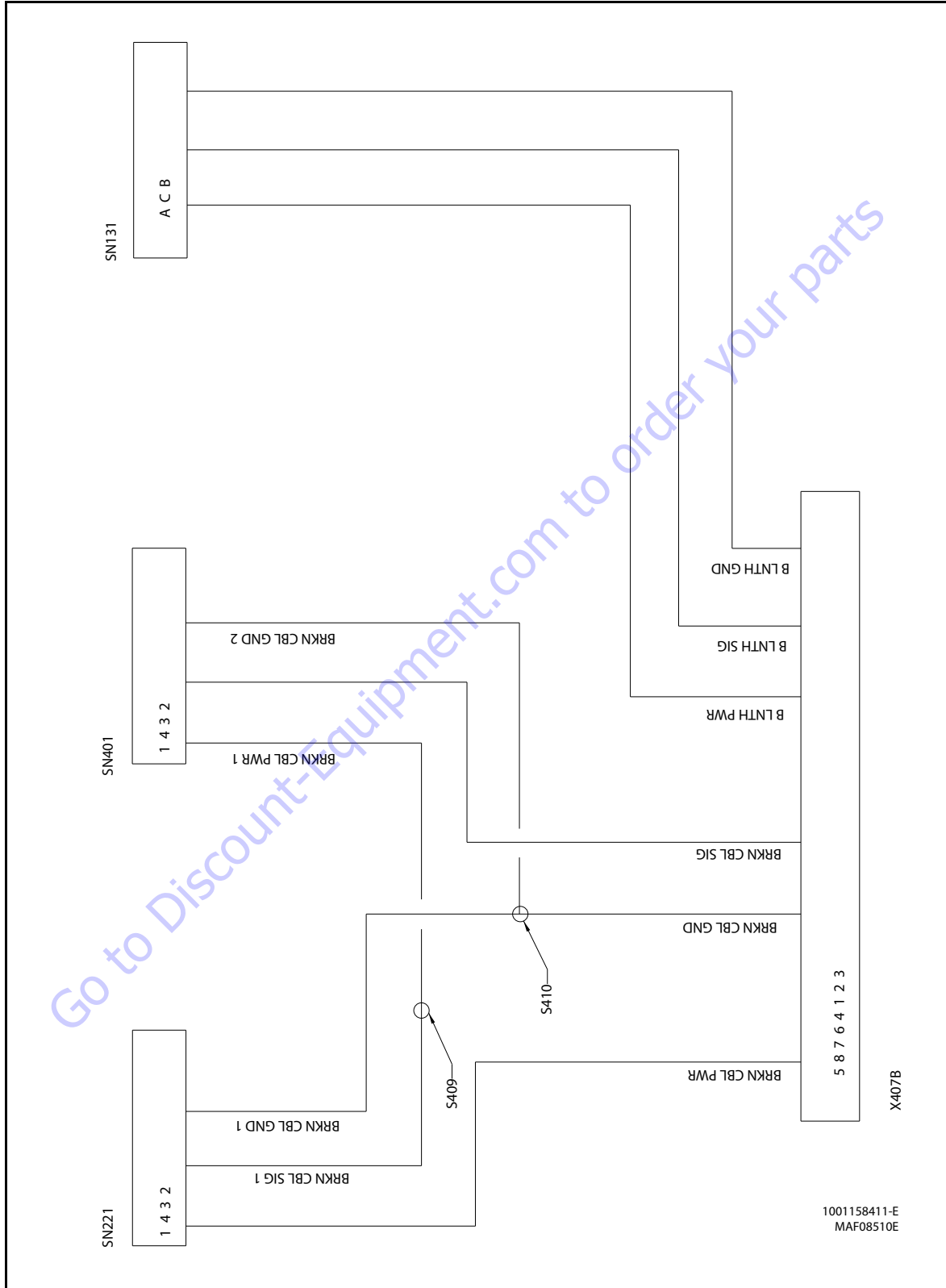


Figure 7-33. Base Boom Harness (Prior to SN 0300224828) - Sheet 2 of 2

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X407B				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	RED	B LNTH PWR	18 AWG	CABLE
2	BLUE	B LNTH SIG	18 AWG	CABLE
3	BLACK	B LNTH GND	18 AWG	CABLE
4				
5	BROWN	BRKN CBL PWR	22 AWG	CABLE
6	BLACK	BRKN CBL SIG	22 AWG	CABLE
7	BLUE	BRKN CBL GND	22 AWG	CABLE
8				

SN401 BROKEN CABLE PROX SENSOR #2 LEFT SIDE				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	BROWN	BRKN CBL PWR 1	22 AWG	CABLE
2	WHITE		22 AWG	CABLE
3	BLUE	BRKN CBL GND 2	22 AWG	CABLE
4	BLACK	BRKN CBL SIG	22 AWG	CABLE

S410				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	BLUE	BRKN CBL GND 1	22 AWG	CABLE
1	BLUE	BRKN CBL GND 2	22 AWG	CABLE
3	BLUE	BRKN CBL GND	22 AWG	CABLE

SN131 BOOM LENGTH SENSOR				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
A	RED	B LNTH PWR	18 AWG	CABLE
B	BLUE	B LNTH SIG	18 AWG	CABLE
C	BLACK	B LNTH GND	18 AWG	CABLE

S409				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	BLACK	BRKN CBL SIG 1	22 AWG	CABLE
1	BROWN	BRKN CBL PWR 1	22 AWG	CABLE

SN221 BROKEN CABLE PROX SENSOR #1 RIGHT SIDE				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET
1	BROWN	BRKN CBL PWR	22 AWG	CABLE
2	WHITE		22 AWG	CABLE
3	BLUE	BRKN CBL GND 1	22 AWG	CABLE
4	BLACK	BRKN CBL SIG 1	22 AWG	CABLE

Go to Discount-Equipment.com to order your parts

This page left blank intentionally

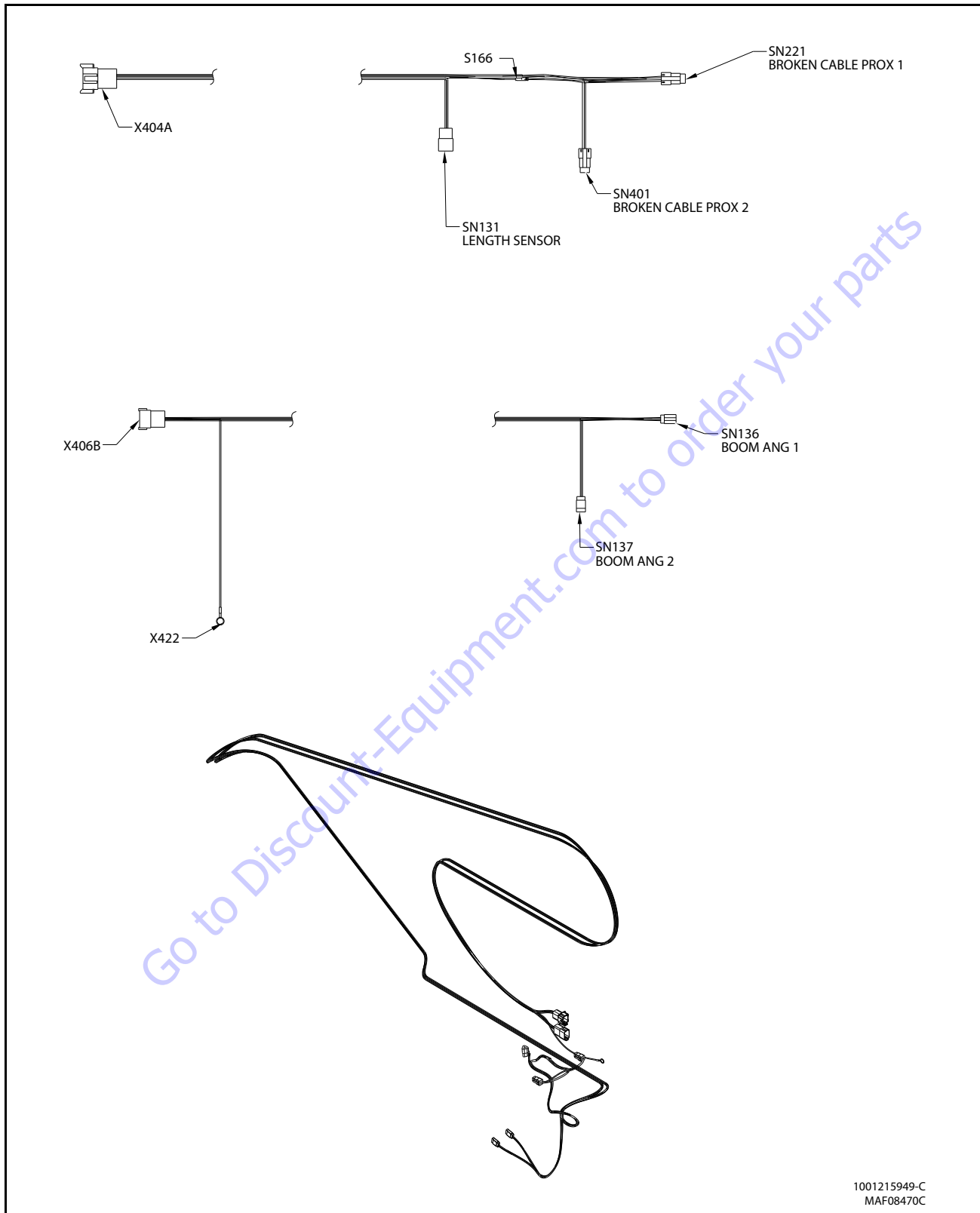


Figure 7-34. Base Boom Harness (SN 0300224828 to Present)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X404A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	CABLE P/N 1060616	18 AWG	CABLE	SN131 (A)
2	BLU	CABLE P/N 1060616	18 AWG	CABLE	SN131 (C)
3	BLK	CABLE P/N 1060616	18 AWG	CABLE	SN131 (B)
4	RED/BLK	CABLE P/N 1060616	18 AWG	TFFN	SN221 (NC)
5	YEL	CABLE P/N 1060616	18 AWG	CABLE	SN221 (1)
6	ORG	CABLE P/N 1060616	18 AWG	CABLE	SN401 (2)
7	BRN	CABLE P/N 1060616	22 AWG	CABLE	S166 (1)
8	SHIELD	CABLE P/N 1060616	18 AWG	CABLE	SN221 (N.C)

SN131 - LENGTH SENSOR					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	CABLE P/N 1060616	18 AWG	CABLE	X404A (1)
2	BLK	CABLE P/N 1060616	18 AWG	CABLE	X404A (3)
3	BLU	CABLE P/N 1060616	18 AWG	CABLE	X404A (2)

SN137 - BOOM ANG 2 LEFT SIDE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CABLE P/N 1060616	18 AWG	CABLE	X406B (5)
2	ORG	CABLE P/N 1060616	18 AWG	CABLE	X406B (6)
3	BRN	CABLE P/N 1060616	22 AWG	CABLE	X406B (7)

X422					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	SHIELD	CABLE P/N 1060616	18 AWG	SHLD	SN136 (NC)

X406B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	CABLE P/N 1060616	18 AWG	CABLE	SN136 (1)
2	BLU	CABLE P/N 1060616	18 AWG	CABLE	SN136 (2)
3	BLK	CABLE P/N 1060616	18 AWG	CABLE	SN136 (3)
4					
5	YEL	CABLE P/N 1060616	18 AWG	CABLE	SN137 (1)
6	ORG	CABLE P/N 1060616	18 AWG	CABLE	SN137 (2)
7	BRN	CABLE P/N 1060616	22 AWG	CABLE	SN137 (3)
8					

SN136 - BOOM ANG 1 RIGHT SIDE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	CABLE P/N 1060616	18 AWG	CABLE	X406B (1)
2	BLU	CABLE P/N 1060616	18 AWG	CABLE	X406B (2)
3	BLK	CABLE P/N 1060616	18 AWG	CABLE	X406B (3)
NC	SHIELD	CABLE P/N 1060616	18 AWG	SHLD	X422 (1)

SN401 - BROKEN CABLE PROX 2 LEFT SIDE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT		18 AWG	GXL	SN221 (2)
2	ORG	CABLE P/N 1060616	18 AWG	CABLE	X404A (6)
3	BLK		18 AWG	GXL	S166 (2)
4					

SN221 - BROKEN CABLE PROX 2 RIGHT SIDE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CABLE P/N 1060616	18 AWG	CABLE	X404A (5)
2	WHT		18 AWG	GXL	SN401 (1)
3	BLK		18 AWG	GXL	S166 (2)
N.C	SHIELD	CABLE P/N 1060616	18 AWG	SHLD	X404A (8)
NC	RED/BLK	CABLE P/N 1060616	18 AWG	TFFN	X404A (4)

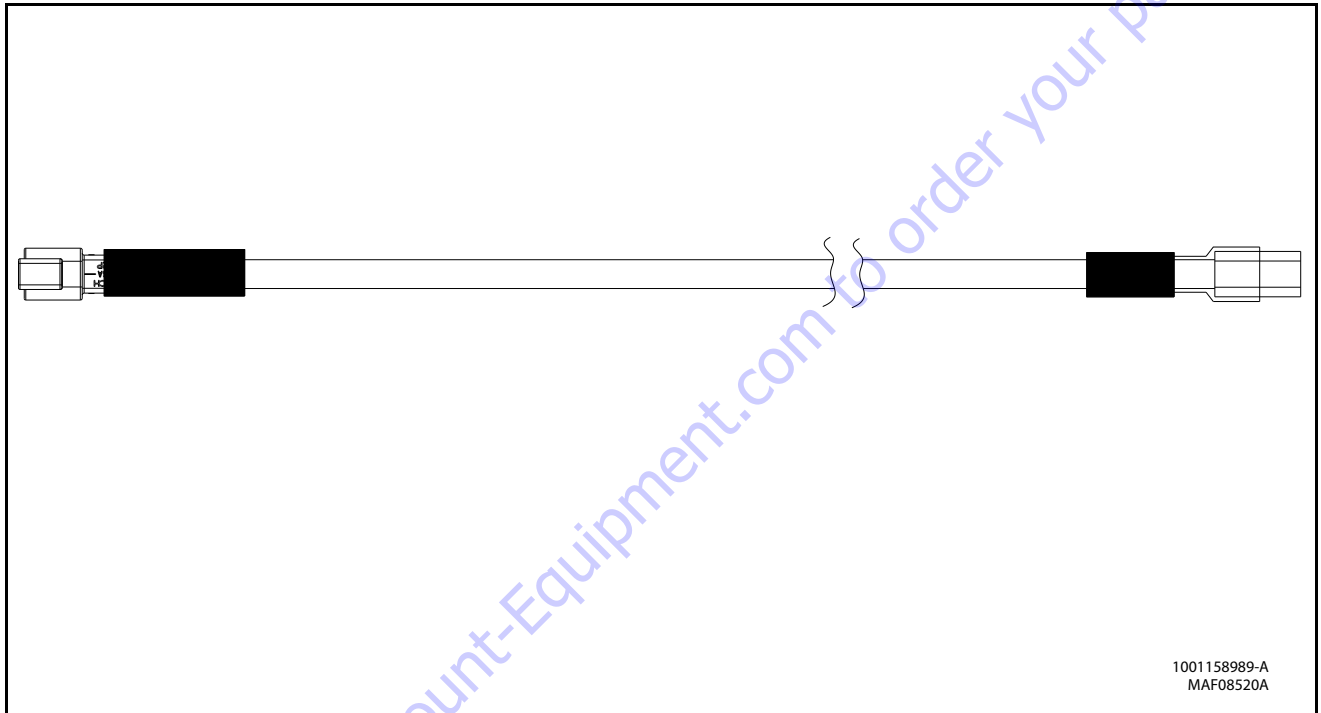


Figure 7-35. Beacon/Strobe Harness

BECON SIDE CONNECTION					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	BECON PWR	16 AWG	CABLE	HARNESS SIDE CONNECTION
2	BLK	BECON GND	16 AWG	CABLE	HARNESS SIDE CONNECTION

HARNESS SIDE CONNECTION					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	BECON PWR	16 AWG	CABLE	BECON SIDE CONNECTION
2	BLK	BECON GND	16 AWG	CABLE	BECON SIDE CONNECTION

Go to Discount-Equipment.com to order your parts

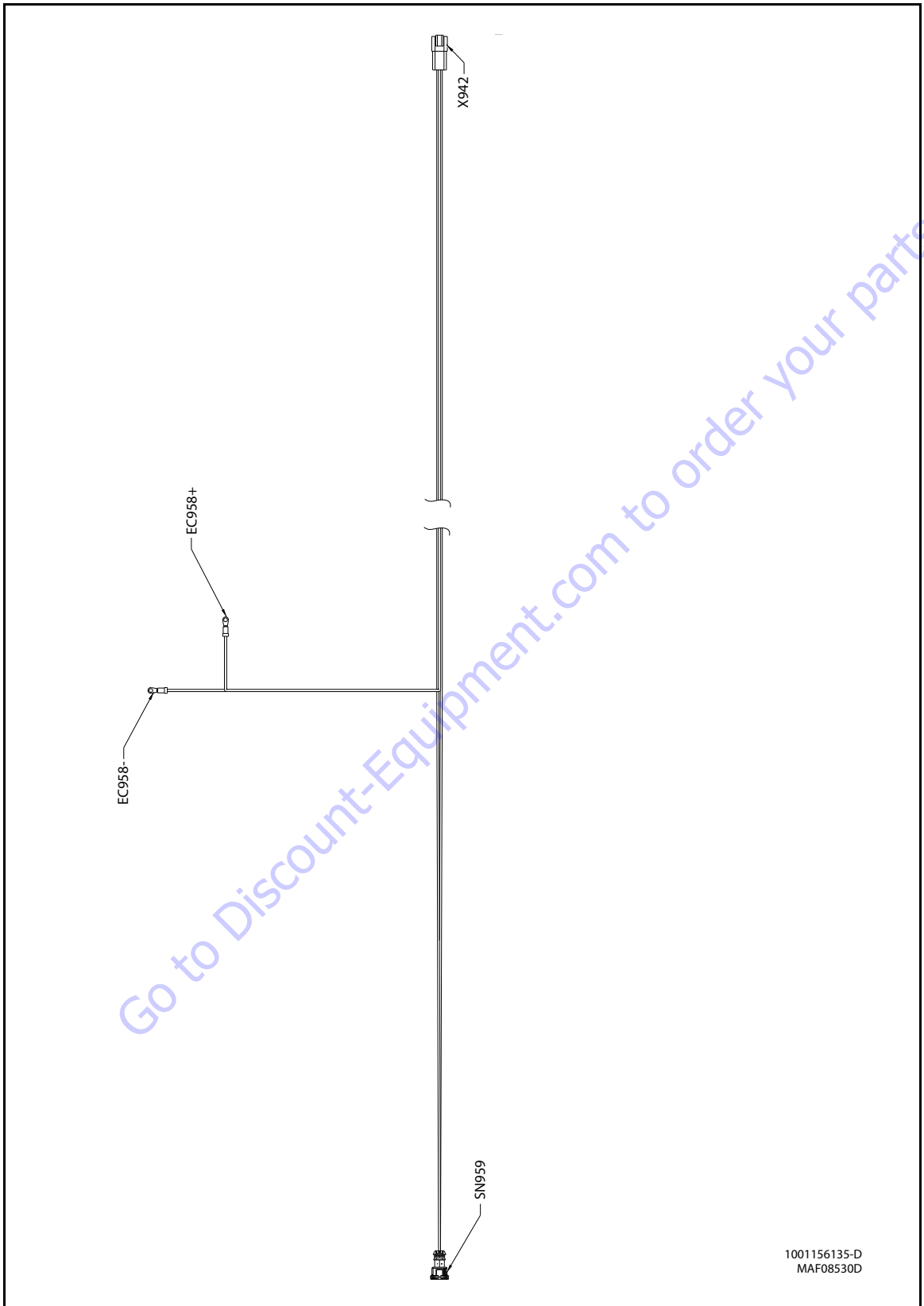


Figure 7-36. Fuel Pump & Water-In-Fuel Harness (Prior to SN 0300237158)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

SN959					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	148-64 WTR/FUL SW	16 AWG	GXL	X942 (1)
2	BLK	148-57 WTR/FUL RTN	16 AWG	GXL	X942 (2)

X942					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	148-64 WTR/FUL SW	16 AWG	GXL	SN959 (1)
2	BLK	148-57 WTR/FUL RTN	16 AWG	GXL	SN959 (2)
3	WHT	48-96 FUEL PUMP	14 AWG	GXL	EC958+ (1)
4	BLK	000-48-1 ENG GND	14 AWG	GXL	EC958- (1)

EC958-					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	000-48-1 ENG GND	14 AWG	GXL	X942 (4)

EC958+					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	48-96 FUEL PUMP	14 AWG	GXL	X942 (3)

Go to Discount-Equipment.com to order your parts

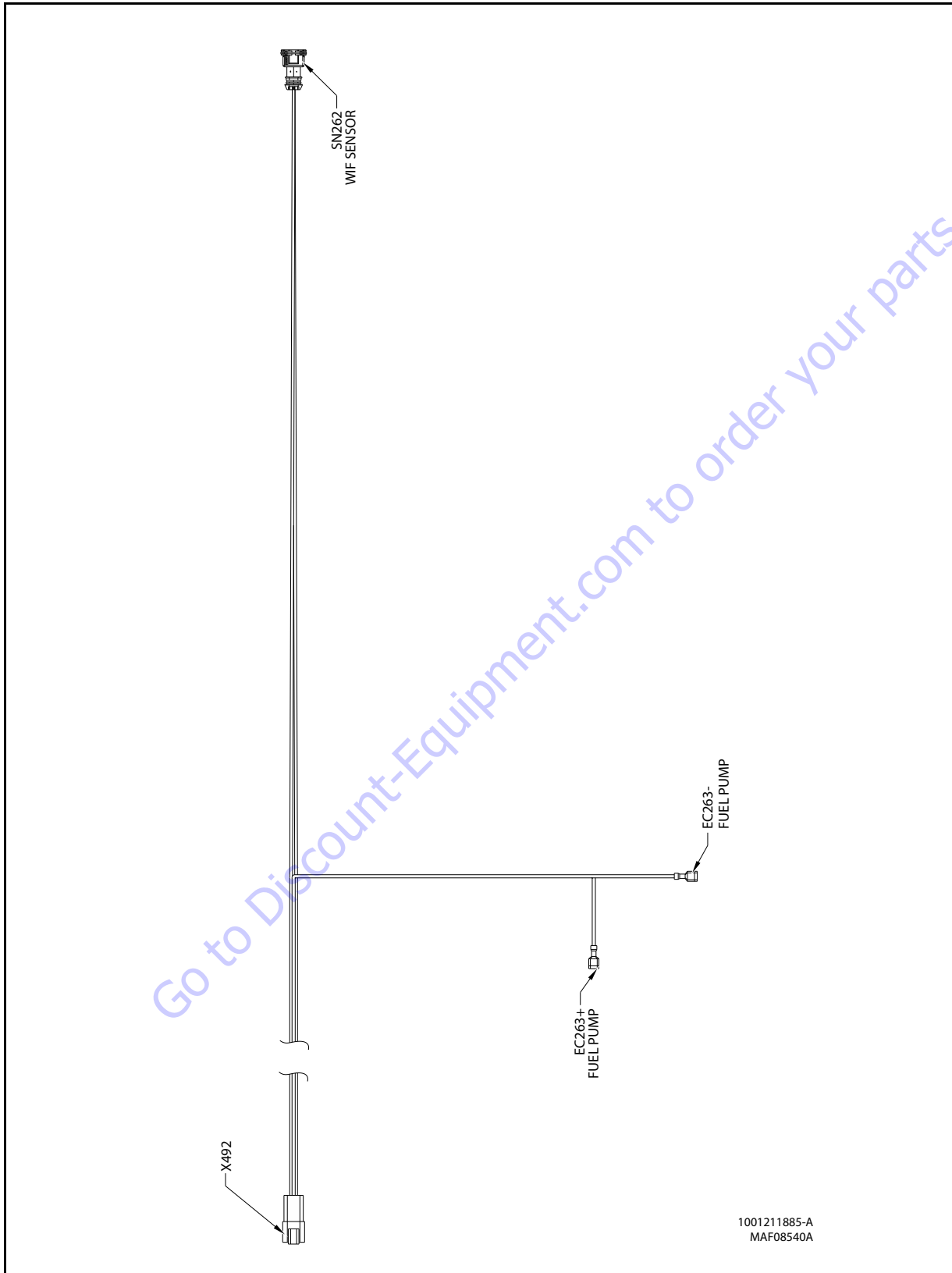


Figure 7-37. Fuel Pump & Water-In-Fuel Harness (SN 0300237158 to Present)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

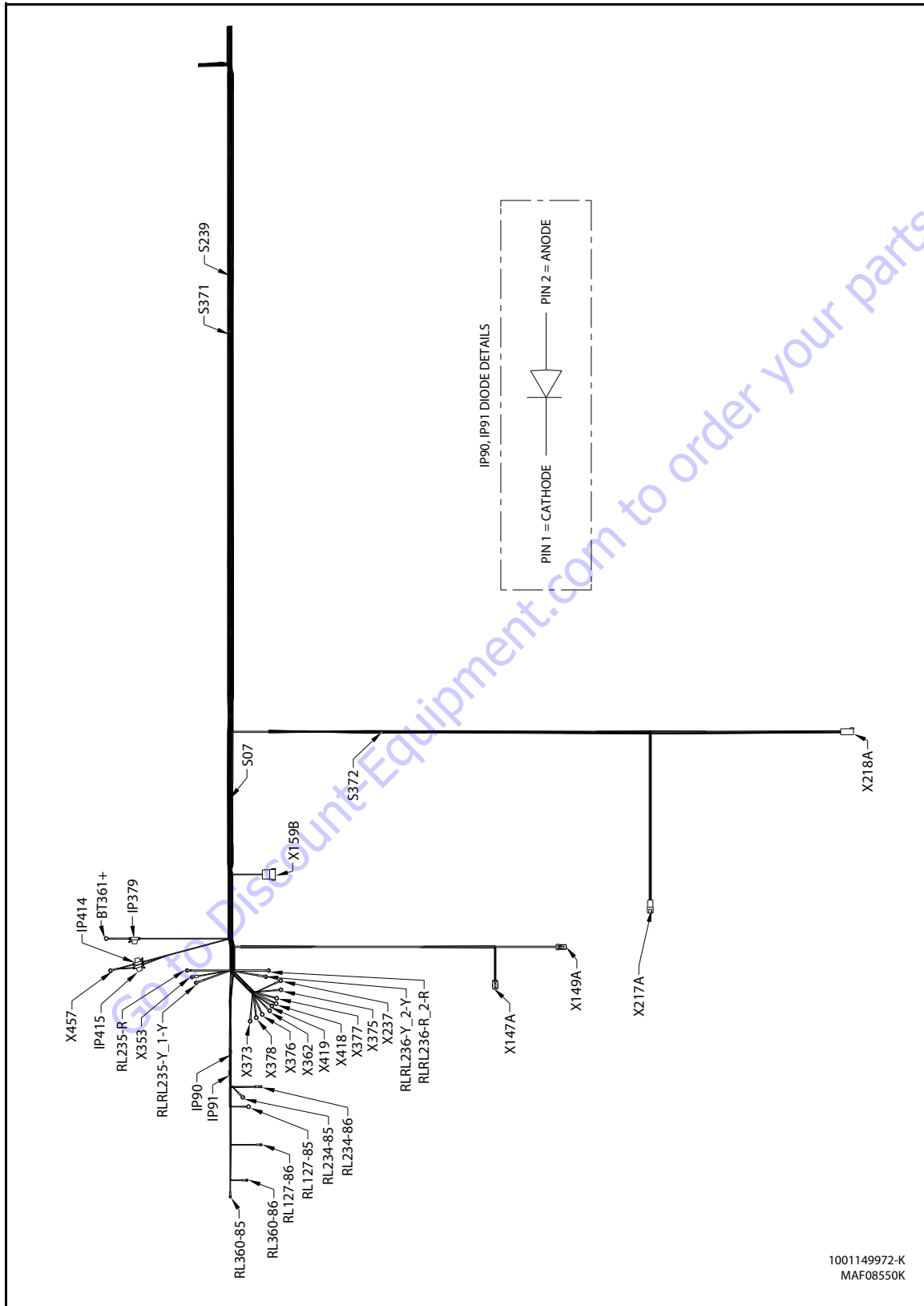
SN262					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	148-64 WTR/FUL SW	16 AWG	GXL	X492 (1)
2	WHT	148-57 WTR/FUL RTN	16 AWG	GXL	X492 (2)

X492					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	148-64 WTR/FUL SW	16 AWG	GXL	SN262 (1)
2	WHT	148-57 WTR/FUL RTN	16 AWG	GXL	SN262 (2)
3	WHT	48-96 FUEL PUMP	14 AWG	GXL	EC263+ (1)
4	BLK	000-48-1 ENG GND	14 AWG	GXL	EC263- (1)

EC263+					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	48-96 FUEL PUMP	14 AWG	GXL	X492 (3)

EC263-					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	000-48-1 ENG GND	14 AWG	GXL	X492 (4)

Go to Discount-Equipment.com to order your parts



1001149972-K
MAF08550K

Figure 7-38. Turntable Wiring Harness - Sheet 1 of 3

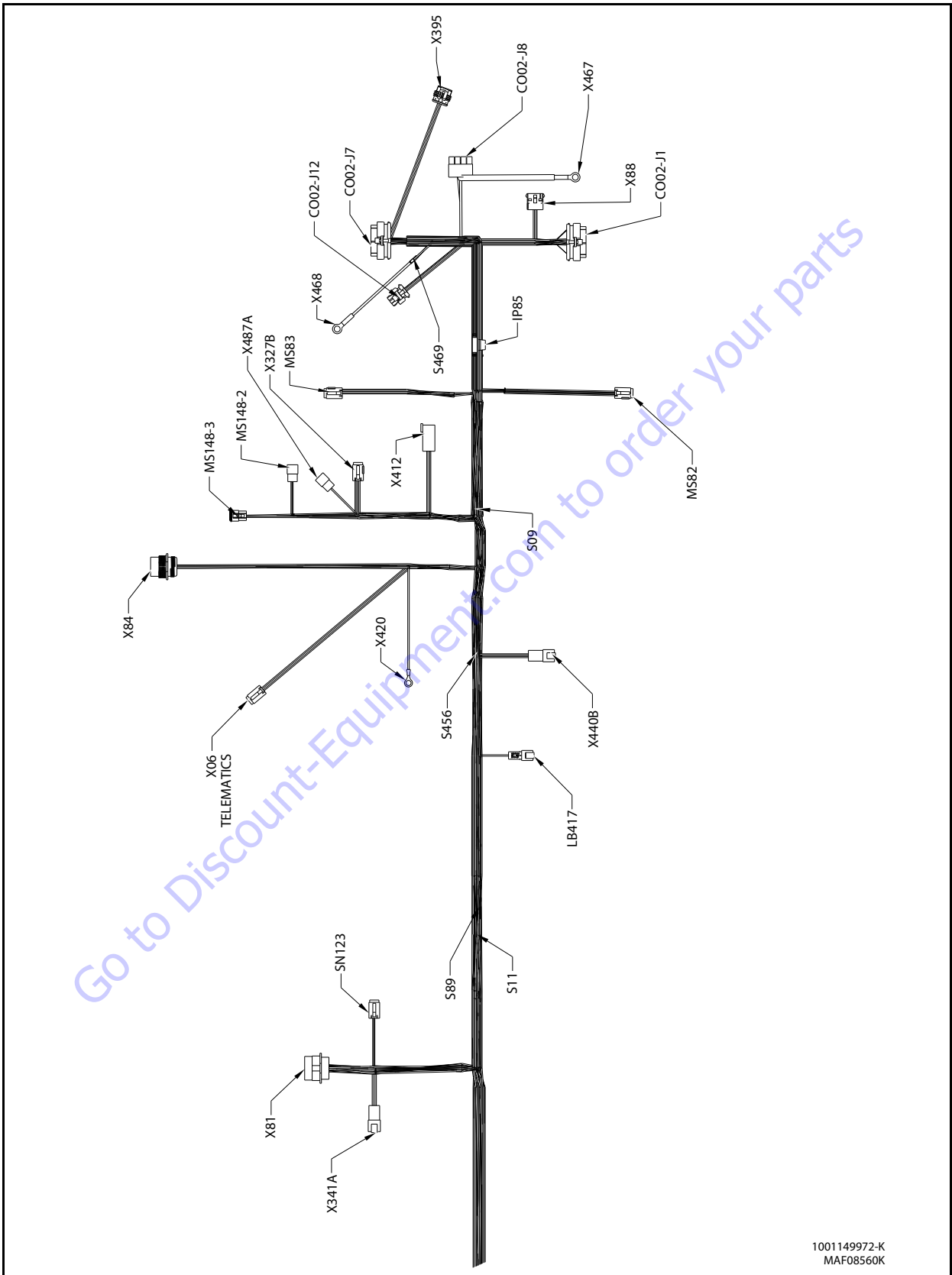


Figure 7-39. Turntable Wiring Harness - Sheet 2 of 3

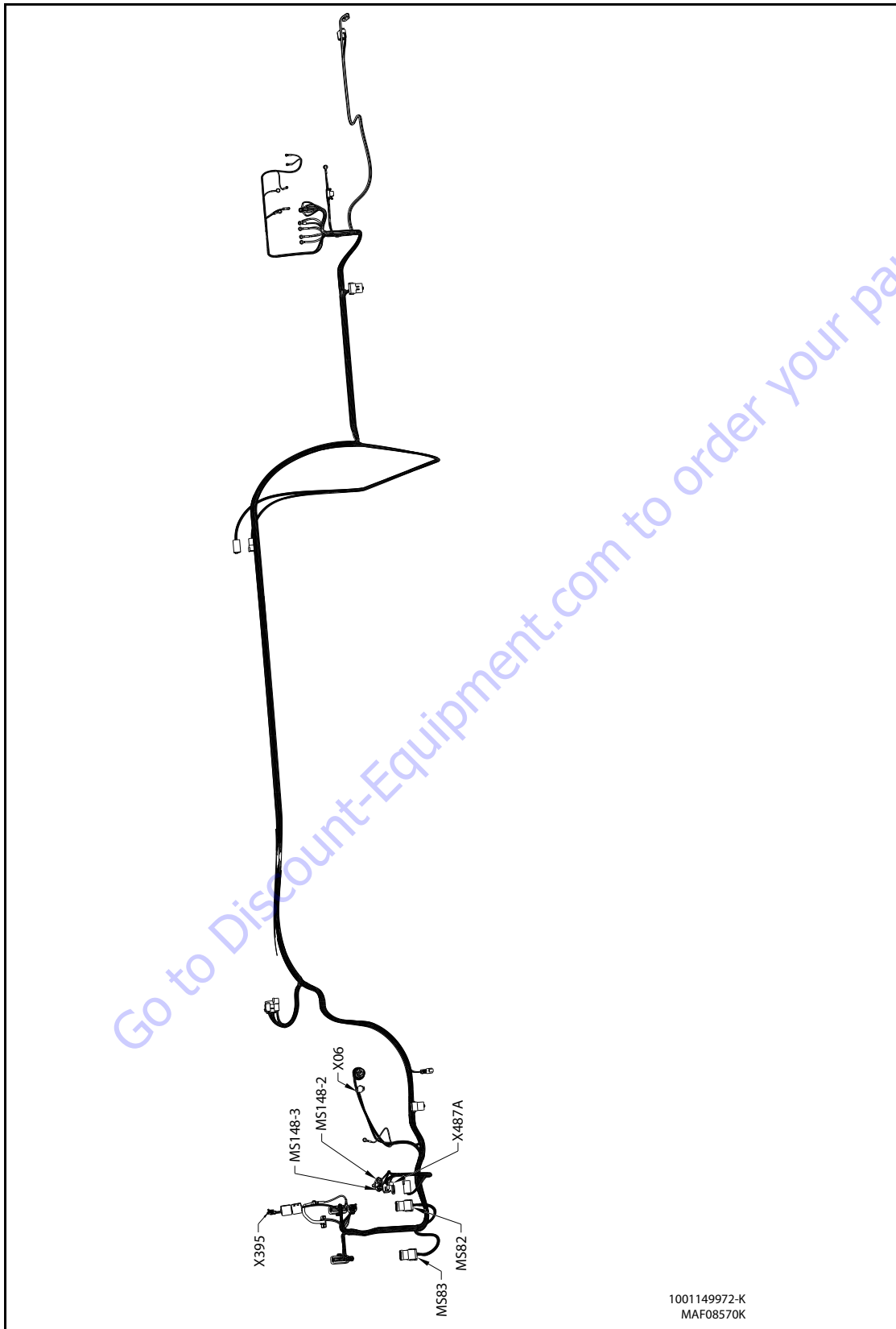


Figure 7-40. Turntable Wiring Harness - Sheet 3 of 3

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

RL360-85					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-35 AUX B+ DISC	18 AWG	GXL	CO02-J1 (2)

RL360-86					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-45	18 AWG	GXL	X373 (1)

RL127-86					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	53-3 AUX PMP	18 AWG	GXL	CO02-J1 (13)

RL127-85					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-70	18 AWG	GXL	RL234-85 (1)

RL234-85					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-21	18 AWG	GXL	X373 (1)
1	BLK	0-70	18 AWG	GXL	RL127-85 (1)

RL234-86					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-4-2-1	18 AWG	GXL	IP91 (1)
1	YEL	2-4-2-1	18 AWG	GXL	IP90 (1)

X457					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-15	18 AWG	GXL	IP414 (2)
1	RED	1-5	16 AWG	GXL	IP415 (2)

RLRL236-Y_2-Y					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-10	14 AWG	GXL	X412 (2)
1	YEL	2-11	12 AWG	GXL	CO02-J8 (2)

RLRL236-R_2-R					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	02-6	10 AWG	GXL	()

X378					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-40	12 AWG	GXL	X81 (16)

X373					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-21	18 AWG	GXL	RL234-85 (1)
1	BLK	0-45	18 AWG	GXL	RL360-86 (1)

X419					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-50	16 AWG	GXL	S456 (1)

X376					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-20	12 AWG	GXL	CO02-J8 (1)

X362					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-19	16 AWG	GXL	S239 (1)

X418					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	00-11	10 AWG	GXL	X149A (2)

X377					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-41	12 AWG	GXL	X81 (18)

X375					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-22	14 AWG	GXL	X412 (1)

X237					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-14	18 AWG	GXL	()
1	BLK	0-16	18 AWG	GXL	LB417 (2)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

RLRL235-Y_1-Y					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-25	12 AWG	GXL	X81 (10)
1	YEL	2-26	12 AWG	GXL	X81 (12)

X353					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-12	18 AWG	GXL	X327B (5)
1	YEL	2-17	18 AWG	GXL	LB417 (1)

RL235-R					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-1-99 IGNITION	12 AWG	GXL	S372 (1)
1	YEL	2-13	16 AWG	GXL	X217A (5)

X147A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN HI	18 AWG	J1939 CABLE	MS148-2 (A)
2	GRN	CAN LO	18 AWG	J1939 CABLE	MS148-2 (B)
3	SHLD	CAN SHLD	18 AWG	J1939 CABLE	MS148-2 (C)
4					
5					
6					
7	WHT	55-14 BRAKE	18 AWG	GXL	C002-J1 (23)
8					
9					
10					
11					
12					

X149A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	02-6	10 AWG	GXL	RL236-R (1)
1	YEL	00-11	10 AWG	GXL	X418 (1)

BT361+					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-7 WK LT PWR	12 AWG	GXL	IP379 (1)

X147A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	27-3 JIB DN O/R	18 AWG	GXL	X81 (15)
2	WHT	25-6 PLVL UP O/R	18 AWG	GXL	X81 (9)
3	WHT	25-5 PLVL DN O/R	18 AWG	GXL	X81 (7)
4	WHT	50-2 PLTFM DUMP	18 AWG	GXL	X341A (4)
5	WHT	50-3 JIB DUMP	18 AWG	GXL	X341A (3)
6	WHT	49-45 HYD OIL TEMP	18 AWG	GXL	C002-J1 (35)
7	BLK	0-31	18 AWG	GXL	C002-J1 (27)
8					
9					
10					
11	BLK	0-14	18 AWG	GXL	()
12	WHT	47-6 ALT EXC	18 AWG	GXL	S371 (2)

X217A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-1-99 IGNITION	14 AWG	GXL	S372 (2)
2	BLK	0-17	16 AWG	GXL	C002-J1 (8)
3	WHT	52-9 GEN	18 AWG	GXL	C002-J1 (22)
4	WHT	48-7 GLOW	18 AWG	GXL	C002-J1 (12)
5	YEL	2-13	18 AWG	GXL	RL235-R (1)
6	BLK	0-18	18 AWG	GXL	C002-J1 (9)
7	WHT	48-8 SP	18 AWG	GXL	C002-J1 (7)
8					

X218A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-1-99 IGNITION	14 AWG	GXL	S372 (2)
2	WHT	48-6 STRT	18 AWG	GXL	C002-J1 (11)
3	YEL	CAN HI	20 AWG	J1939 CABLE	MS83 (1)
4	GRN	CAN LO	20 AWG	J1939 CABLE	MS83 (3)
5	WHT	47-6-1 ALT EXC	18 AWG	GXL	S371 (2)
6	SHLD	CAN SHLD	20 AWG	J1939 CABLE	MS83 (5)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X06 TELEMATICS					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-15-2	18 AWG	GXL	S07 (1)
2	BLK	0-19-3	18 AWG	GXL	S239 (2)
3	YEL	2-11-1A	18 AWG	GXL	S09 (1)
4	RED	1-4-3A	18 AWG	GXL	S11 (1)

X341A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-7-2 WK LT PWR	16 AWG	GXL	IP379 (2)
2	RED	1-7-1 WK LT PWR	16 AWG	GXL	IP379 (2)
3	WHT	50-3 JIB DUMP	16 AWG	GXL	X159B (5)
4	WHT	50-2 PLTFM DUMP	16 AWG	GXL	X159B (4)

SN123					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	B LNTH CBL	18 AWG	CABLE	C002-J7 (35)
2	BLK	B LNTH CBL	18 AWG	CABLE	C002-J7 (11)
3					
4	WHT	B LNTH CBL	18 AWG	CABLE	C002-J7 (29)

X440B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-30 LFT ENABLE	18 AWG	GXL	C002-J1 (1)
2	WHT	49-77 P C PWR	20 AWG	GXL	C002-J7 (26)
3	WHT	49-76 P C GND	20 AWG	GXL	C002-J7 (26)
4	WHT	49-75 PRS CHK	20 AWG	GXL	C002-J7 (7)
5	WHT	49-73 L P PWR	20 AWG	GXL	C002-J7 (16)
6	WHT	49-74 L P GND	20 AWG	GXL	C002-J7 (9)
7	WHT	49-72 LIFT PRS	20 AWG	GXL	C002-J7 (4)
8	BLK	0-50-2	16 AWG	GXL	S456 (1)

X487A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CAN HI	18 AWG	GXL	MS83 (2)
B	GRN	CAN LO	18 AWG	GXL	MS83 (4)
C					

X467					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	N/A	UGM TO CHASSIS GND	4 AWG	BRAID	C002-J8 (3)

X468					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	N/A	CAN SHIELD TO CHASSIS GND	10 AWG	BRAID	S469 (1)

C002-J8					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-20	12 AWG	GXL	X376 (1)
2	YEL	2-11	12 AWG	GXL	RLRL236-Y_2-Y (1)
3	N/A	UGM TO CHASSIS GND	4 AWG	BRAID	X467 (1)
4					

X395					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49-64 TILT PWR	18 AWG	GXL	C002-J7 (27)
2	BLK	0-60	18 AWG	GXL	C002-J7 (25)
3	WHT	49-65 X AXIS	18 AWG	GXL	C002-J7 (20)
4	WHT	49-66 Y AXIS	18 AWG	GXL	C002-J7 (8)

LB417					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-17	18 AWG	GXL	X353 (1)
2	BLK	0-16	18 AWG	GXL	X237 (1)

X420					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-50-1	16 AWG	GXL	S456 (2)

MS148-3					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CAN HI	20 AWG	J1939 CABLE	MS82 (12)
B	GRN	CAN LO	20 AWG	J1939 CABLE	MS82 (10)
C	SHLD	CAN SHLD	20 AWG	J1939 CABLE	MS82 (7)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

MS148-2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CAN HI	18 AWG	J1939 CABLE	X147A (1)
B	GRN	CAN LO	18 AWG	J1939 CABLE	X147A (2)
C	SHLD	CAN SHLD	18 AWG	J1939 CABLE	X147A (3)

X412					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-22	14 AWG	GXL	X375 (1)
2	YEL	2-10	14 AWG	GXL	RLRL236-Y_2-Y (1)
3	BLU	CABLE	18 AWG	CABLE	C002-J7 (12)
4	BLK	CABLE	18 AWG	CABLE	C002-J7 (19)
5	RED	CABLE	18 AWG	CABLE	C002-J7 (32)
6	SHIELD	BRKN CBL PROX	18 AWG	CABLE	S469 (2)

MS83					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN HI	20 AWG	J1939 CABLE	X218A (3)
2	YEL	CAN HI	18 AWG	GXL	X487A (A)
3	GRN	CAN LO	20 AWG	J1939 CABLE	X218A (4)
4	GRN	CAN LO	18 AWG	GXL	X487A (B)
5	SHLD	CAN SHLD	20 AWG	J1939 CABLE	X218A (6)
6	SHLD	CAN SHLD	20 AWG	J1939 CABLE	S469 (2)
7	SHLD	CAN SHLD	20 AWG	J1939 CABLE	X84 (5)
8					
9	GRN	CAN LO	20 AWG	J1939 CABLE	X84 (4)
10	GRN	CAN LO	20 AWG	J1939 CABLE	C002-J12 (4)
11	YEL	CAN HI	20 AWG	J1939 CABLE	X84 (3)
12	YEL	CAN HI	20 AWG	J1939 CABLE	C002-J12 (3)

X81					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	SHLD	CAN SHLD	20 AWG	J1939 CABLE	MS82 (5)
2	GRN	CAN LO	20 AWG	J1939 CABLE	MS82 (9)
3	YEL	CAN HI	20 AWG	J1939 CABLE	MS82 (11)
4	YEL	2-4	18 AWG	GXL	S89 (1)
5	RED	1-4-3	18 AWG	GXL	S11 (2)
6	YEL	2-15	18 AWG	GXL	C002-J7 (15)
7	WHT	25-5 PLVL DN O/R	18 AWG	GXL	X159B (3)
8					
9	WHT	25-6 PLVL UP O/R	18 AWG	GXL	X159B (2)
10	YEL	2-25	12 AWG	GXL	RLRL235-Y_1-Y (1)
11	YEL	2-5	18 AWG	GXL	C002-J7 (14)
12	YEL	2-26	12 AWG	GXL	RLRL235-Y_1-Y (1)
13	WHT	27-6 J-UP O/R	18 AWG	GXL	C002-J1 (3)
14					
15	WHT	27-3 JIB DN O/R	18 AWG	GXL	X159B (1)
16	BLK	0-40	12 AWG	GXL	X378 (1)
17					
18	BLK	0-41	12 AWG	GXL	X377 (1)
19					

X84					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	BLK	0-19-2	18 AWG	GXL	S239 (2)
B	RED	1-15-1	18 AWG	GXL	S07 (1)
C	YEL	CAN HI	20 AWG	J1939 CABLE	MS83 (11)
D	GRN	CAN LO	20 AWG	J1939 CABLE	MS83 (9)
E	SHLD	CAN SHLD	20 AWG	J1939 CABLE	MS83 (7)
F					
G					
H	YEL	2-11-1B	18 AWG	GXL	S09 (1)
J					

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X327B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-5	16 AWG	GXL	IP415 (1)
2	RED	1-4-1	18 AWG	GXL	C002-J7 (3)
3	RED	1-4-3B	18 AWG	GXL	S11 (1)
4	RED	1-4-2	18 AWG	GXL	IP91 (2)
5	YEL	2-12	18 AWG	GXL	X353 (1)
6	BLK	0-19-1	18 AWG	GXL	S239 (2)
7	GRN	CAN LO	20 AWG	J1939 CABLE	MS82 (3)
8	YEL	CAN HI	20 AWG	J1939 CABLE	MS82 (1)
9	WHT	49-46 M CNTRL	18 AWG	GXL	C002-J7 (21)
10					
11	WHT	44-1 MSSO	18 AWG	GXL	C002-J12 (8)
12	BLK	0-44	18 AWG	GXL	C002-J12 (5)

C002-J12					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2					
3	YEL	CAN HI	20 AWG	J1939 CABLE	MS83 (12)
4	GRN	CAN LO	20 AWG	J1939 CABLE	MS83 (10)
5	BLK	0-44	18 AWG	GXL	X327B (12)
6	WHT	JUMPER	18 AWG	GXL	C002-J12 (7)
7	WHT	JUMPER	18 AWG	GXL	C002-J12 (6)
8	WHT	44-1 MSSO	18 AWG	GXL	X327B (11)

MS82					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN HI	20 AWG	J1939 CABLE	X327B (8)
2	YEL	CAN HI	20 AWG	J1939 CABLE	C002-J7 (13)
3	GRN	CAN LO	20 AWG	J1939 CABLE	X327B (7)
4	GRN	CAN LO	20 AWG	J1939 CABLE	C002-J7 (24)
5	SHLD	CAN SHLD	20 AWG	J1939 CABLE	X81 (1)
6	SHLD	CAN SHLD	20 AWG	J1939 CABLE	S469 (2)
7	SHLD	CAN SHLD	20 AWG	J1939 CABLE	MS148-3 (C)
8					
9	GRN	CAN LO	20 AWG	J1939 CABLE	X81 (2)
10	GRN	CAN LO	20 AWG	J1939 CABLE	MS148-3 (B)
11	YEL	CAN HI	20 AWG	J1939 CABLE	X81 (3)
12	YEL	CAN HI	20 AWG	J1939 CABLE	MS148-3 (A)

X88					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49-34 A-PWR	18 AWG	GXL	C002-J1 (28)
2	WHT	49-35 A-RX	18 AWG	GXL	C002-J1 (29)
3	WHT	49-36 A-TX	18 AWG	GXL	C002-J1 (30)
4	WHT	49-37 A-GND	18 AWG	GXL	C002-J1 (31)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

C002-J1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-30 LFT ENABLE	18 AWG	GXL	X440B (1)
2	WHT	55-35 AUX B+ DISC	18 AWG	GXL	RL360-85 (1)
3	WHT	27-6 J-UP O/R	18 AWG	GXL	X81 (13)
4					
5					
6					
7	WHT	48-8 SP	18 AWG	GXL	X217A (7)
8	BLK	0-17	16 AWG	GXL	X217A (2)
9	BLK	0-18	18 AWG	GXL	X217A (6)
10					
11	WHT	48-6 STRT	18 AWG	GXL	X218A (2)
12	WHT	48-7 GLOW	18 AWG	GXL	X217A (4)
13	WHT	53-3 AUX PMP	18 AWG	GXL	RL127-86 (1)
14					
15					
16					
17					
18					
19					
20					
21					
22	WHT	52-9 GEN	18 AWG	GXL	X217A (3)
23	WHT	55-14 BRAKE	18 AWG	GXL	X147A (7)
24					
25					
26					
27	BLK	0-31	18 AWG	GXL	X159B (7)
28	WHT	49-34 A-PWR	18 AWG	GXL	X88 (1)
29	WHT	49-35 A-RX	18 AWG	GXL	X88 (2)
30	WHT	49-36 A-TX	18 AWG	GXL	X88 (3)
31	WHT	49-37 A-GND	18 AWG	GXL	X88 (4)
32	WHT	47-6-2 ALT EXC	18 AWG	GXL	S371 (1)
33					
34					
35	WHT	49-45 HYD OIL TEMP	18 AWG	GXL	X159B (6)

C002-J7					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-4-4	18 AWG	GXL	S89 (2)
2	YEL	2-4-3	18 AWG	GXL	S89 (2)
3	RED	1-4-1	18 AWG	GXL	X327B (2)
4	WHT	49-72 LIFT PRS	20 AWG	GXL	X440B (7)
5					
6					
7	WHT	49-75 PRS CHK	20 AWG	GXL	X440B (4)
8	WHT	49-66 Y AXIS	18 AWG	GXL	X395 (4)
9	WHT	49-74 L P GND	20 AWG	GXL	X440B (6)
10	WHT	49-76 P C GND	20 AWG	GXL	X440B (3)
11	BLK	B LNTH CBL	18 AWG	CABLE	SN123 (2)
12	BLU	CABLE	18 AWG	CABLE	X412 (3)
13	YEL	CAN HI	20 AWG	J1939 CABLE	MS82 (2)
14	YEL	2-5	18 AWG	GXL	X81 (11)
15	YEL	2-15	18 AWG	GXL	X81 (6)
16	WHT	49-73 L P PWR	20 AWG	GXL	X440B (5)
17					
18					
19	BLK	CABLE	18 AWG	CABLE	X412 (4)
20	WHT	49-65 X AXIS	18 AWG	GXL	X395 (3)
21	WHT	49-46 M CNTRL	18 AWG	GXL	X327B (9)
22					
23	WHT	JUMPER3	18 AWG	GXL	C002-J7 (30)
24	GRN	CAN LO	20 AWG	J1939 CABLE	MS82 (4)
25	BLK	0-60	18 AWG	GXL	X395 (2)
26	WHT	49-77 P C PWR	20 AWG	GXL	X440B (2)
27	WHT	49-64 TILT PWR	18 AWG	GXL	X395 (1)
28					
29	WHT	B LNTH CBL	18 AWG	CABLE	SN123 (4)
30	WHT	JUMPER3	18 AWG	GXL	C002-J7 (23)
31					
32	RED	CABLE	18 AWG	CABLE	X412 (5)
33					
34	YEL	2-11	18 AWG	GXL	IP85 (2)
35	RED	B LNTH CBL	18 AWG	CABLE	SN123 (1)

Go to Discount-Equipment.com to order your parts

This page left blank intentionally

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

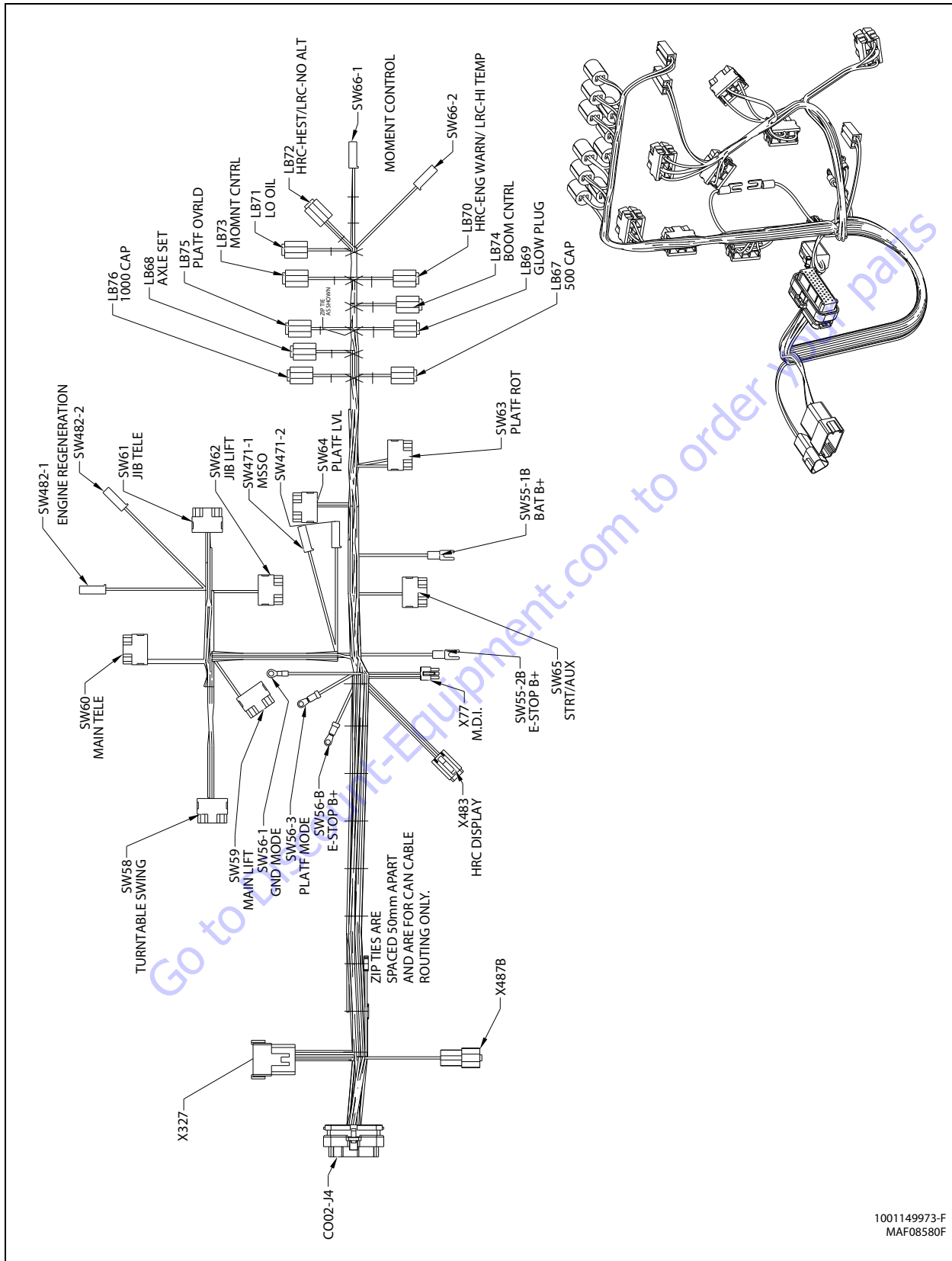


Figure 7-41. Ground Console Wiring Harness

1001149973-F
MAF08580F

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

C002-J4					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	39-4 AXLE	18 AWG	GXL	LB68 (1)
2	WHT	54-4 500#	18 AWG	GXL	LB67 (1)
3	WHT	49-29 BCS	18 AWG	GXL	LB74 (1)
4	WHT	48-4 STRT	18 AWG	GXL	SW65 (1)
5	WHT	25-8 P-LVL DN	18 AWG	GXL	SW64 (3)
6	WHT	23-6 P-ROT LFT	18 AWG	GXL	SW63 (3)
7	WHT	13-5 TELE IN	18 AWG	GXL	SW60 (1)
8	WHT	27-4 JIB DN	18 AWG	GXL	SW62 (1)
9	WHT	148-5 REGEN	18 AWG	GXL	SW482-1 (1)
10					
11	WHT	29-3 JIB IN	18 AWG	GXL	SW61 (1)
12					
13	WHT	49-28 MNT CNTRL	18 AWG	GXL	LB73 (1)
14	WHT	49-30 OVERLOAD	18 AWG	GXL	LB75 (1)
15	WHT	48-5 GLOW	18 AWG	GXL	LB69 (1)
16	WHT	53-2 AUX	18 AWG	GXL	SW65 (3)
17	WHT	25-7 P-LVL UP	18 AWG	GXL	SW64 (1)
18	WHT	23-5 P-ROT RHT	18 AWG	GXL	SW63 (1)
19	WHT	27-5 JIB UP	18 AWG	GXL	SW62 (3)
20					
21					
22	WHT	29-4 JIB OUT	18 AWG	GXL	SW61 (3)
23	WHT	3-3 LIFT UP	18 AWG	GXL	SW59 (1)
24	YEL	2-23	18 AWG	GXL	X327 (10)
25	YEL	2-9	18 AWG	GXL	SW58 (2)
26	WHT	HRC-HEST/ LRC-ALT	18 AWG	GXL	LB72 (1)
27	WHT	54-5 1000#	18 AWG	GXL	LB76 (1)
28	WHT	HRC-WARN/ LRC-TEMP	18 AWG	GXL	LB70 (1)
29	WHT	47-8 OIL PRS	18 AWG	GXL	LB71 (1)
30	WHT	13-6 TELE OUT	18 AWG	GXL	SW60 (3)
31	BLK	0-12	18 AWG	GXL	LB76 (2)
32					
33	WHT	3-4 LIFT DN	18 AWG	GXL	SW59 (3)
34	WHT	21-3 SWG LFT	18 AWG	GXL	SW59 (3)
35	WHT	21-4 SWG RHT	18 AWG	GXL	SW59 (3)

SW55-2B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
2B	RED	1-4	16 AWG	GXL	SW56-B (1)

X327					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-5-1-1	16 AWG	GXL	SW55-1B (1B)
1	YEL	2-12-1	18 AWG	GXL	?
2	RED	1-4-1	18 AWG	GXL	SW56-3 (1)
3	RED	1-4-3	18 AWG	GXL	SW56-1 (1)
4	RED	1-4-2	18 AWG	GXL	SW56-3 (1)
5	YEL	2-12	18 AWG	GXL	S31 (1)
6	BLK	0-19-1	18 AWG	GXL	S42 (1)
7	GRN		20 AWG	J1939 CABLE	X77 (3)
8	YEL		20 AWG	J1939 CABLE	X77 (4)
9	WHT	49-46 M CNTRL	18 AWG	GXL	SW66-2 (1)
10	YEL	2-23	18 AWG	GXL	C002-J4 (24)
11	WHT	44-1 MSSO	18 AWG	GXL	SW471-1 (1)
12	BLK	0-44	18 AWG	GXL	SW471-2 (1)

X77					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-12-1	18 AWG	GXL	S31 (2)
2	BLK	0-19-3	18 AWG	GXL	S42 (2)
3	GRN		20 AWG	J1939 CABLE	X327 (7)
4	YEL		20 AWG	J1939 CABLE	X327 (8)
5					
6					

SW55-1B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1B	RED	1-5-1-1	16 AWG	GXL	X327 (1)

SW63					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	23-5 P-ROT RHT	18 AWG	GXL	C002-J4 (18)
2	YEL	2-9-6	18 AWG	GXL	SW62 (2)
2	YEL	2-9-6	18 AWG	GXL	SW64 (2)
3	WHT	23-6 P-ROT LFT	18 AWG	GXL	C002-J4 (6)

LB67					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	54-4 500#	18 AWG	GXL	C002-J4 (2)
2	BLK	0-12-9	18 AWG	GXL	LB68 (2)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

LB69					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	48-5 GLOW	18 AWG	GXL	C002-J4 (15)
2	BLK	0-12-7	18 AWG	GXL	LB70 (2)
2	BLK	0-12-8	18 AWG	GXL	LB68 (2)

LB74					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49-29 BCS	18 AWG	GXL	C002-J4 (3)
2	BLK	0-12-2	18 AWG	GXL	LB75 (2)
2	BLK	0-12-3	18 AWG	GXL	LB73 (2)

LB70					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	HRC-WARN/ LRC-TEMP	18 AWG	GXL	C002-J4 (28)
2	BLK	0-12-6	18 AWG	GXL	LB71 (2)
2	BLK	0-12-7	18 AWG	GXL	LB69 (2)

SW66-2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49-46 M CNTRL	18 AWG	GXL	X327 (9)

SW66-1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-9-3	18 AWG	GXL	SW60 (2)
1	YEL	2-9-4	18 AWG	GXL	SW61 (2)

LB72					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	HRC-HEST/ LRC-ALT	18 AWG	GXL	C002-J4 (26)
2	BLK	0-12-4	18 AWG	GXL	LB73 (2)
2	BLK	0-12-5	18 AWG	GXL	LB71 (2)

LB71					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	47-8 OIL PRS	18 AWG	GXL	C002-J4 (29)
2	BLK	0-12-5	18 AWG	GXL	LB72 (2)
2	BLK	0-12-6	18 AWG	GXL	LB70 (2)

LB73					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49-28 MNT CNTRL	18 AWG	GXL	C002-J4 (13)
2	BLK	0-12-3	18 AWG	GXL	LB74 (2)
2	BLK	0-12-4	18 AWG	GXL	LB72 (2)

LB75					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49-30 OVERLOAD	18 AWG	GXL	C002-J4 (14)
2	BLK	0-12-1	18 AWG	GXL	LB76 (2)
2	BLK	0-12-2	18 AWG	GXL	LB74 (2)

LB68					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	39-4 AXLE	18 AWG	GXL	C002-J4 (1)
2	BLK	0-12-8	18 AWG	GXL	LB69 (2)
2	BLK	0-12-9	18 AWG	GXL	LB67 (2)

LB76					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	54-5 1000#	18 AWG	GXL	C002-J4 (27)
2	BLK	0-12	18 AWG	GXL	C002-J4 (31)
2	BLK	0-12-1	18 AWG	GXL	LB75 (2)

SW64					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	25-7 P-LVL UP	18 AWG	GXL	C002-J4 (17)
2	YEL	2-9-8	18 AWG	GXL	SW63 (2)
2	YEL	2-9-9	18 AWG	GXL	SW65 (2)
3	WHT	25-8 P-LVL DN	18 AWG	GXL	C002-J4 (5)

SW56-1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-4-3	18 AWG	GXL	X327 (3)

SW56-3					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-4-1	18 AWG	GXL	X327 (2)
1	RED	1-4-2	16 AWG	GXL	X327 (4)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

SW56-B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-4	16 AWG	GXL	SW55-2B (2B)

SW58					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	21-3 SWG LFT	18 AWG	GXL	C002-J4 (34)
2	YEL	2-9	18 AWG	GXL	C002-J4 (25)
2	YEL	2-9-1	18 AWG	GXL	SW59 (2)
3	WHT	21-4 SWG RHT	18 AWG	GXL	C002-J4 (35)

SW482-1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	148-5 REGEN	18 AWG	GXL	C002-J4 (9)

SW482-2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-9-10	18 AWG	GXL	SW65 (2)

SW471-1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	44-1 MSSO	18 AWG	GXL	X327 (11)

SW471-2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-44	18 AWG	GXL	X327 (12)

SW65					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	48-4 STRT	18 AWG	GXL	C002-J4 (4)
2	YEL	2-9-10	18 AWG	GXL	SW482-2 (1)
2	YEL	2-9-9	18 AWG	GXL	SW64 (2)
3	WHT	53-2 AUX	18 AWG	GXL	C002-J4 (16)

SW59					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	3-3 LIFT UP	18 AWG	GXL	C002-J4 (23)
2	YEL	2-9-1	18 AWG	GXL	SW58 (2)
2	YEL	2-9-2	18 AWG	GXL	SW60 (2)
3	WHT	3-4 LIFT DN	18 AWG	GXL	C002-J4 (33)

SW62					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	27-4 JIB DN	18 AWG	GXL	C002-J4 (8)
2	YEL	2-9-5	18 AWG	GXL	SW61 (2)
2	YEL	2-9-6	18 AWG	GXL	SW63 (2)
3	WHT	27-5 JIB UP	18 AWG	GXL	C002-J4 (19)

SW61					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	29-3 JIB IN	18 AWG	GXL	C002-J4 (11)
2	YEL	2-9-4	18 AWG	GXL	SW66-1 (1)
2	YEL	2-9-5	18 AWG	GXL	SW62 (2)
3	WHT	29-4 JIB OUT	18 AWG	GXL	C002-J4 (22)

SW60					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	13-5 TELE IN	18 AWG	GXL	C002-J4 (7)
2	YEL	2-9-2	18 AWG	GXL	SW59 (2)
2	YEL	2-9-3	18 AWG	GXL	SW66-1 (1)
3	WHT	13-6 TELE OUT	18 AWG	GXL	C002-J4 (30)

X487B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CAN HI	18 AWG	GXL	X483 (3)
B	GRN	CAN LO	18 AWG	GXL	X483 (4)
C					

X483					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-19-2	18 AWG	GXL	S42 (2)
2	YEL	2-12-2	18 AWG	GXL	S31 (2)
3	YEL	CAN HI	18 AWG	GXL	X487B (A)
4	GRN	CAN LO	18 AWG	GXL	X487B (B)

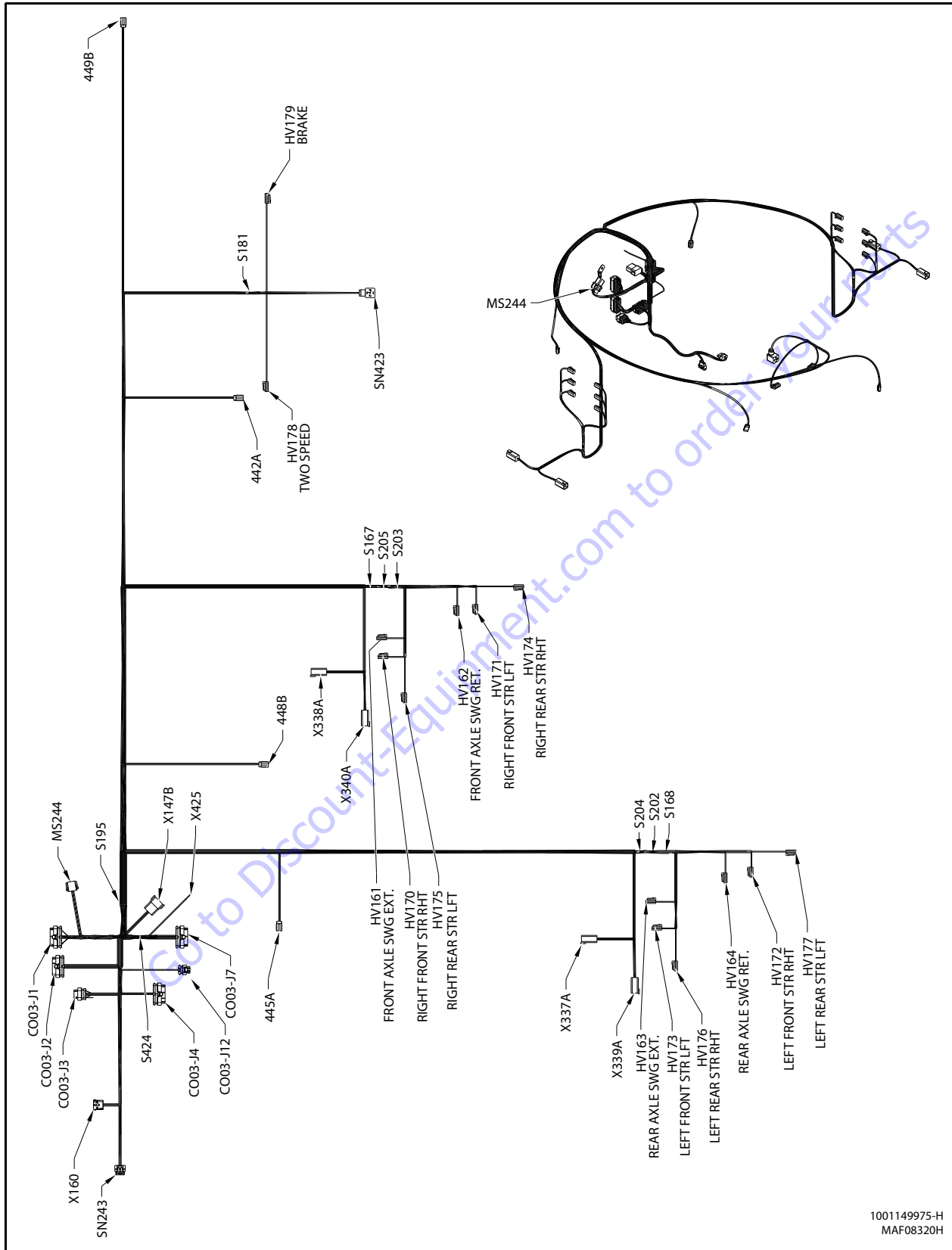


Figure 7-42. Chassis Harness

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

S195					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	00-8	18AWG	GXL	C003-J1(9)
2	BLK	00-8-1	18AWG	GXL	X448B(3)
2	BLK	00-8-2	18AWG	GXL	X449B(3)

C003-J12					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2	WHT	55 - 18TTABLE ANG2	18AWG	GXL	SN243(C)
3					
4					
5					
6					
7					
8					

X425					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	00-12	16AWG	GXL	S424(1)

S424					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	00-12	16AWG	GXL	X425(1)
2	SHIELD	SHLD	18AWG	SHLD	X337A(4)
2	SHIELD	SHLD	18AWG	SHLD	X338A(4)
2	SHIELD	SHLD	18AWG	SHLD	X339A(4)
2	SHIELD	SHLD	18AWG	SHLD	X340A(4)

HV177 - LEFT REAR STR LFT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	9-8 LREAR STRL	18AWG	GXL	C003-J2(20)
2	BLK	00-6-2	18AWG	GXL	S204(2)

HV172 - LEFT FRONT STR RHT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	9-2 LFRNT STRR	18AWG	GXL	C003-J2(35)
2	BLK	00-4-1	18AWG	GXL	S202(2)

C003-J7					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2					
3	WHT	49-100 ENABLE	18AWG	GXL	C003-J7(34)
4	BLU	RHT FRNT STR	18AWG	CABLE	X340A(3)
5	RED	LFT REAR STR	18AWG	CABLE	X339A(2)
6	WHT	1200HM	18AWG	GXL	C003-J7(17)
7	BLU	LFT FRNT STR	18AWG	CABLE	X337A(3)
8	BLU	LFT REAR STR	18AWG	CABLE	X339A(3)
9	BLK	RHT FRNT STR	18AWG	CABLE	X340A(1)
10	BLK	LFT FRNT STR	18AWG	CABLE	X337A(1)
11	WHT	55-17DOS	18AWG	GXL	X147B(11)
12	WHT	49-70HYD.OC	18AWG	GXL	SN423(2)
13	YEL	CANHI	18AWG	J1939CABLE	X147B(1)
14					
15	WHT	55-14BRAKE	18AWG	GXL	X147B(7)
16	RED	RHT FRNT STR	18AWG	CABLE	X340A(2)
17	WHT	1200HM	18AWG	GXL	C003-J7(6)
18	SHLD	CANSHLD	18AWG	J1939CABLE	X147B(3)
19					
20	BLU	RHT REAR STR	18AWG	CABLE	X338A(3)
21					
22					
23					
24	GRN	CANLOW	18AWG	J1939CABLE	X147B(2)
25	BLK	RHT REAR STR	18AWG	CABLE	X338A(1)
26	RED	LFT FRNT STR	18AWG	CABLE	X337A(2)
27	RED	RHT REAR STR	18AWG	CABLE	X338A(2)
28	BLK	LFT REAR STR	18AWG	CABLE	X339A(1)
29	YEL	02-4	18AWG	GXL	X147B(12)
30					
31					
32	WHT	49-71 HYD.OCRTN	18AWG	GXL	SN423(1)
33					
34	WHT	49-100 ENABLE	18AWG	GXL	C003-J7(3)
35					

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

HV164 - REAR AXLE SWGRET.					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	38-6 RAXS RET	18AWG	GXL	C003-J2(7)
2	WHT	60-5-2 RAXS RTN	18AWG	GXL	S168(2)

HV176 - LEFT REAR STRRHT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	9-7 LREAR STRR	18AWG	GXL	C003-J2(9)
2	BLK	00-6-1	18AWG	GXL	S204(2)

HV173 - LEFT FRONT STRLFT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	9-3 LFRNT STRL	18AWG	GXL	C003-J2(34)
2	BLK	00-4-2	18AWG	GXL	S202(2)

HV163 - REAR AXLE SWGEXT.					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	38-4 RAXS EXT	18AWG	GXL	C003-J2(5)
2	WHT	60-5-1 RAXS RTN	18AWG	GXL	S168(2)

S168					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	60-5 RAXS RTN	18AWG	GXL	C003-J3(2)
2	WHT	60-5-1 RAXS RTN	18AWG	GXL	HV163(2)
2	WHT	60-5-2 RAXS RTN	18AWG	GXL	HV164(2)

S202					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	00-4	18AWG	GXL	C003-J2(28)
2	BLK	00-4-1	18AWG	GXL	HV172(2)
2	BLK	00-4-2	18AWG	GXL	HV173(2)

S204					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	00-6	18AWG	GXL	C003-J2(30)
1	WHT	60-4 FAXS RTN	18AWG	GXL	()
2	BLK	00-6-1	18AWG	GXL	HV176(2)
2	BLK	00-6-2	18AWG	GXL	HV177(2)

X339A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	LFT REAR STR	18AWG	CABLE	C003-J7(28)
2	RED	LFT REAR STR	18AWG	CABLE	C003-J7(5)
3	BLU	LFT REAR STR	18AWG	CABLE	C003-J7(8)
4	SHIELD	SHLD	18AWG	SHLD	S424(2)
5					
6					

X337A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	LFTF RNT STR	18AWG	CABLE	C003-J7(10)
2	RED	LFTF RNT STR	18AWG	CABLE	C003-J7(26)
3	BLU	LFTF RNT STR	18AWG	CABLE	C003-J7(7)
4	SHIELD	SHLD	18AWG	SHLD	S424(2)
5					
6					

X445A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	61-1-25V	18AWG	GXL	MS244(8)
2	WHT	38-1 RLFT ASWG	18AWG	GXL	C003-J3(13)
3	BLK	00-15	18AWG	GXL	C003-J3(3)

X448B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	61-1-35V	18AWG	GXL	MS244(4)
2	WHT	38-9 RAXS RHT	18AWG	GXL	C003-J1(15)
3	BLK	00-8-1	18AWG	GXL	S195(2)

HV174 - RIGHT REAR STRRHT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	9-5 RREAR STRR	18AWG	GXL	C003-J2(8)
2	BLK	00-5-1	18AWG	GXL	S203(2)

HV170 - RIGHT FRONT STRRHT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	9-4 RFRNT STRR	18AWG	GXL	C003-J2(11)
2	BLK	00-3-1	18AWG	GXL	S205(2)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

HV162 - FRONT AXLE SWGRET.					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	38-3FAXS RET	18AWG	GXL	C003-J2(16)
2	WHT	60-4-2 FAXS RTN	18AWG	GXL	S167(2)

HV175 - RIGHT REAR STRLFT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	9-6 RREAR STRL	18AWG	GXL	C003-J2(19)
2	BLK	00-5-2	18AWG	GXL	S203(2)

HV171 - RIGHT FRONT STRLFT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	9-1 RFRNT STRL	18AWG	GXL	C003-J2(22)
2	BLK	00-3-2	18AWG	GXL	S205(2)

HV161 - FRONT AXLE SWGEXT.					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	38-2FAXS EXT	18AWG	GXL	C003-J2(4)
2	WHT	60-4-1FAXS RTN	18AWG	GXL	S167(2)

S203					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	00-5	18AWG	GXL	C003-J2(18)
2	BLK	00-5-1	18AWG	GXL	HV174(2)
2	BLK	00-5-2	18AWG	GXL	HV175(2)

S205					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	00-3	18AWG	GXL	C003-J2(17)
2	BLK	00-3-1	18AWG	GXL	HV170(2)
2	BLK	00-3-2	18AWG	GXL	HV171(2)

S167					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	60-4 FAXS RTN	18AWG	GXL	C003-J3(1)
2	WHT	60-4-1 FAXS RTN	18AWG	GXL	HV161(2)
2	WHT	60-4-2 FAXSRTN	18AWG	GXL	HV162(2)

X340A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	RHT FRNT STR	18AWG	CABLE	C003-J7(9)
2	RED	RHT FRNT STR	18AWG	CABLE	C003-J7(16)
3	BLU	RHT FRNT STR	18AWG	CABLE	C003-J7(4)
4	SHIELD	SHLD	18AWG	SHLD	S424(2)
5					
6					

X338A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	RHT REAR STR	18AWG	CABLE	C003-J7(25)
2	RED	RHT REAR STR	18AWG	CABLE	C003-J7(27)
3	BLU	RHT REAR STR	18AWG	CABLE	C003-J7(20)
4	SHIELD	SHLD	18AWG	SHLD	S424(2)
5					
6					

X442A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	61-1-15V	18AWG	GXL	MS244(7)
2	WHT	38-5 FAXS RHT	18AWG	GXL	C003-J2(25)
3	BLK	00-2	18AWG	GXL	C003-J2(6)

HV178 - TWO SPEED					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-132 SPD	18AWG	GXL	C003-J2(1)
2	BLK	00-1-1	18AWG	GXL	S181(2)

SN423					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49-71 HYD.OCR TN	18AWG	GXL	C003-J7(32)
2	WHT	49-70 HYD.OC	18AWG	GXL	C003-J7(12)
3					

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

HV179 - BRAKE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-14 BRAKE	18AWG	GXL	C003-J2(13)
2	BLK	00-1-2	18AWG	GXL	S181(2)

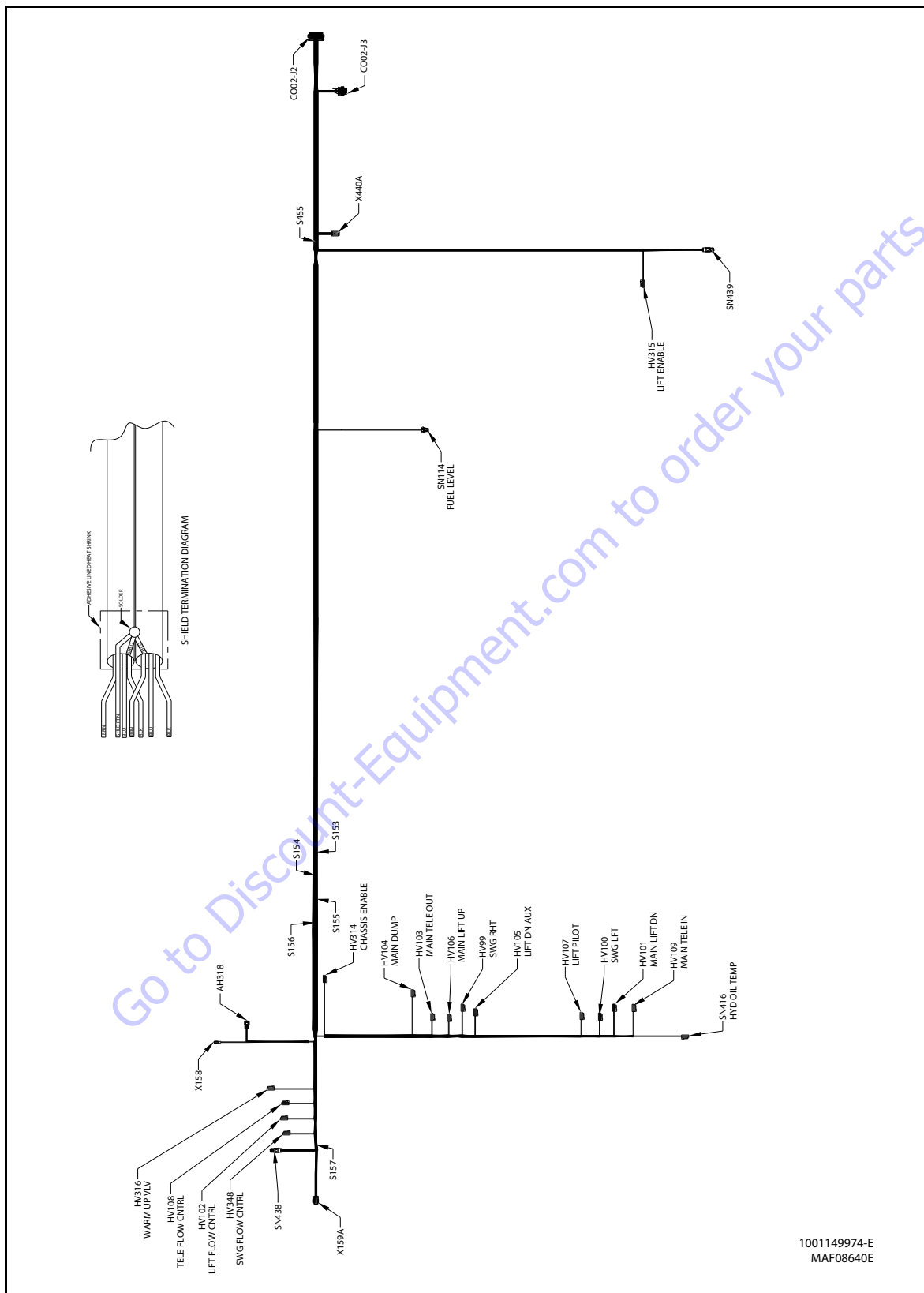
S181					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	00-1	18AWG	GXL	C003-J2(14)
2	BLK	00-1-1	18AWG	GXL	HV178(2)
2	BLK	00-1-2	18AWG	GXL	HV179(2)

X449B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	61-1-45V	18AWG	GXL	MS244(3)
2	WHT	38-10 FAXS LFT	18AWG	GXL	C003-J1(14)
3	BLK	00-8-2	18AWG	GXL	S195(2)

Go to Discount-Equipment.com to order your parts

Go to Discount-Equipment.com to order your parts

This page left blank intentionally



1001149974-E
MAF08640E

Figure 7-43. Hydraulic Valve Bank Harness (Prior to SN 0300201023)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

C003-J7					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	50-3 JIB DUMP	16 AWG	GXL	X159A (5)
2	WHT	55-31 CHS ENABLE	18 AWG	GXL	HV314 (1)
3	WHT	50-2 PLTFRM DUMP	16 AWG	GXL	X159A (4)
4	WHT	13-4 MTELE IN	18 AWG	GXL	HV109 (1)
5	WHT	25-6 PLVL UP O/R	18 AWG	GXL	X159A (2)
6	BLK	0-11	16 AWG	GXL	S156 (1)
7	WHT	25-5 PLVL DN O/R	18 AWG	GXL	X159A (3)
8					
9	WHT	55-12 TELE FCNTRL	18 AWG	GXL	HV108 (1)
10	WHT	55-11 LFT PLT	18 AWG	GXL	HV107 (1)
11	WHT	3-2 MLIFT UP	18 AWG	GXL	HV106 (1)
12	WHT	55-10 LFT DN AUX	18 AWG	GXL	HV105 (1)
13	WHT	50-1 MAIN DUMP	18 AWG	GXL	HV104 (1)
14	BLK	0-10	16 AWG	GXL	S154 (1)
15	WHT	22-2 SWG LFT	18 AWG	GXL	HV100 (1)
16	WHT	13-3 MTELE OUT	18 AWG	GXL	HV103 (1)
17	BLK	0-36	18 AWG	GXL	HV314 (2)
18	BLK	0-30	18 AWG	GXL	S153 (1)
19	WHT	55-9 LFT FCNTRL	18 AWG	GXL	HV102 (1)
20					
21					
22	WHT	3-1 MLIFT DN	18 AWG	GXL	HV101 (1)
23					
24					
25	WHT	47-10 FUL SEN	18 AWG	GXL	SN114 (1)
26	WHT	52-7 H&T LT SIG	18 AWG	GXL	X158 (1)
27	WHT	52-6 MOT ALRM	18 AWG	GXL	AH318 (B)
28					
29	BLK	0-46	18 AWG	GXL	C002-J3 (11)
30	BLK	0-6	16 AWG	GXL	S155 (1)
31	WHT	27-3 JIB DN O/R	18 AWG	GXL	X159A (1)
32	WHT	22-1 SWG RHT	18 AWG	GXL	HV99 (1)
33	WHT	55-33 WARM UP	18 AWG	GXL	HV316 (1)
34					
35	WHT	55-32 SWG F.C.	18 AWG	GXL	HV348 (1)

C002-J3					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	60-1 LFCNTRL RTN	16 AWG	GXL	HV102 (2)
2	WHT	60-2 TFCNTRL RTN	18 AWG	GXL	HV108 (2)
3					
4	WHT	60-3 SWG RTN	18 AWG	GXL	HV348 (2)
5	WHT	60-6 WARM UP RTN	18 AWG	GXL	HV316 (2)
6					
7	WHT	52-8 ALRM PWR	18 AWG	GXL	AH318 (A)
8					
9	WHT	47-6 ALT EXC	18 AWG	GXL	X159A (12)
10					
11	BLK	0-46	18 AWG	GXL	C002-J2 (29)
12					
13					
14	WHT	60-7 LENABLE RTN	16 AWG	GXL	HV315 (2)

HV315 LIFT ENABLE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-30 LFT ENABLE	18 AWG	GXL	X440A (1)
2	WHT	60-7 LENABLE RTN	18 AWG	GXL	C002-J3 (14)

SN114					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	47-10 FUL SEN	18 AWG	GXL	C002-J2 (25)
2	BLK	0-14-3	18 AWG	GXL	S157 (2)

HV314 CHASSIS ENABLE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-31 CHS ENABLE	18 AWG	GXL	C002-J2 (2)
2	BLK	0-36	18 AWG	GXL	C002-J2 (17)

HV104 MAIN DUMP					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	50-1 MAIN DUMP	18 AWG	GXL	C002-J2 (13)
2	BLK	0-10-2	18 AWG	GXL	S154 (2)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

HV100 SWG LFT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	22-2 SWG LFT	18 AWG	GXL	C002-J2 (15)
2	BLK	0-30-1	18 AWG	GXL	S153 (2)

HV106 MAIN LIFT UP					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	3-2 MLIFT UP	18 AWG	GXL	C002-J2 (11)
2	BLK	0-6-1	18 AWG	GXL	S155 (2)

HV109 MAIN TELE IN					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	13-4 MTELE IN	18 AWG	GXL	C002-J2 (4)
2	BLK	0-11-1	18 AWG	GXL	S156 (2)

HV108 TELE FLOW CNTRL					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-12 TELE FCNTRL	18 AWG	GXL	C002-J2 (9)
2	WHT	60-2 TFCNTRL RTN	18 AWG	GXL	C002-J3 (2)

X158					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	52-7 H&T LT SIG	18 AWG	GXL	C002-J2 (26)

HV316 WARM UP VLV					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-33 WARM UP	18 AWG	GXL	C002-J2 (33)
2	WHT	60-6 WARM UP RTN	18 AWG	GXL	C002-J3 (5)

HV105 LIFT DN AUX					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-10 LFT DN AUX	18 AWG	GXL	C002-J2 (12)
2	BLK	0-6-3	18 AWG	GXL	S155 (2)

HV107 LIFT PILOT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-11 LFT PLT	18 AWG	GXL	C002-J2 (10)
2	BLK	0-10-1	18 AWG	GXL	S154 (2)

HV99 SWG RHT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	22-1 SWG RHT	18 AWG	GXL	C002-J2 (32)
2	BLK	0-30-2	18 AWG	GXL	S153 (2)

HV101 MAIN LIFT DN					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	3-1 MLIFT DN	18 AWG	GXL	C002-J2 (22)
2	BLK	0-6-2	18 AWG	GXL	S155 (2)

HV103 MAIN TELE OUT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	13-3 MTELE OUT	18 AWG	GXL	C002-J2 (16)
2	BLK	0-11-2	18 AWG	GXL	S156 (2)

SN416 HYD OIL TEMP					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49-45 HYD OIL TEMP	18 AWG	GXL	X159A (6)
2	BLK	0-31	18 AWG	GXL	X159A (7)

AH318					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	WHT	52-8 ALRM PWR	18 AWG	GXL	C002-J3 (7)
B	WHT	52-6 MOT ALRM	18 AWG	GXL	C002-J2 (27)
C	BLK	0-14-2	18 AWG	GXL	S157 (2)

SN438					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BRN	49-77 P C PWR	20 AWG	CABLE	X440A (2)
2					
3	BLU	49-75 PRS CHK	20 AWG	CABLE	X440A (4)
4	BLK	49-76 P C GND	20 AWG	CABLE	X440A (3)
SHLD	SHLD	P CHK SN	20 AWG	CABLE	S455 (2)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X440A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-30 LFT ENABLE	18 AWG	GXL	HV315 (1)
2	BRN	49-77 P C PWR	20 AWG	CABLE	SN438 (1)
3	BLK	49-76 P C GND	20 AWG	CABLE	SN438 (4)
4	BLK	49-75 PRS CHK	20 AWG	CABLE	SN438 (3)
5	BRN	49-73 L P PWR	20 AWG	CABLE	SN439 (1)
6	BLK	49-74 L P GND	20 AWG	CABLE	SN439 (4)
7	BLU	49-72 LIFT PRS	20 AWG	CABLE	SN439 (3)
8	SHLD	RTN	20 AWG	CABLE	S455 (1)

SN439					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BRN	49-73 L P PWR	20 AWG	CABLE	X440A (5)
2					
3	BLU	49-72 LIFT PRS	20 AWG	CABLE	X440A (7)
4	BLK	49-74 L P GND	20 AWG	CABLE	X440A (6)
SHLD	SHLD	P LIFT SN	20 AWG	CABLE	S455 (2)

HV348 SWG FLOW CNTRL					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-32 SWG F.C.	18 AWG	GXL	C002-J2 (35)
2	WHT	60-3 SWG RTN	18 AWG	GXL	C002-J3 (4)

HV102 LIFT FLOW CNTRL					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-9 LFT FCNTRL	18 AWG	GXL	C002-J2 (19)
2	WHT	60-1 LFCNTRL RTN	18 AWG	GXL	C002-J3 (1)

X159A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	27-3 JIB DN O/R	18 AWG	GXL	C002-J2 (31)
2	WHT	25-6 PLVL UP O/R	18 AWG	GXL	C002-J2 (5)
3	WHT	25-5 PLVL DN O/R	18 AWG	GXL	C002-J2 (7)
4	WHT	50-2 PLTFRM DUMP	16 AWG	GXL	C002-J2 (3)
5	WHT	50-3 JIB DUMP	16 AWG	GXL	C002-J2 (1)
6	WHT	49-45 HYD OIL TEMP	18 AWG	GXL	SN416 (1)
7	BLK	0-31	18 AWG	GXL	SN416 (2)
8					
9					
10					
11	BLK	0-14	16 AWG	GXL	S157 (1)
12	WHT	47-6 ALT EXC	18 AWG	GXL	C002-J3 (9)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

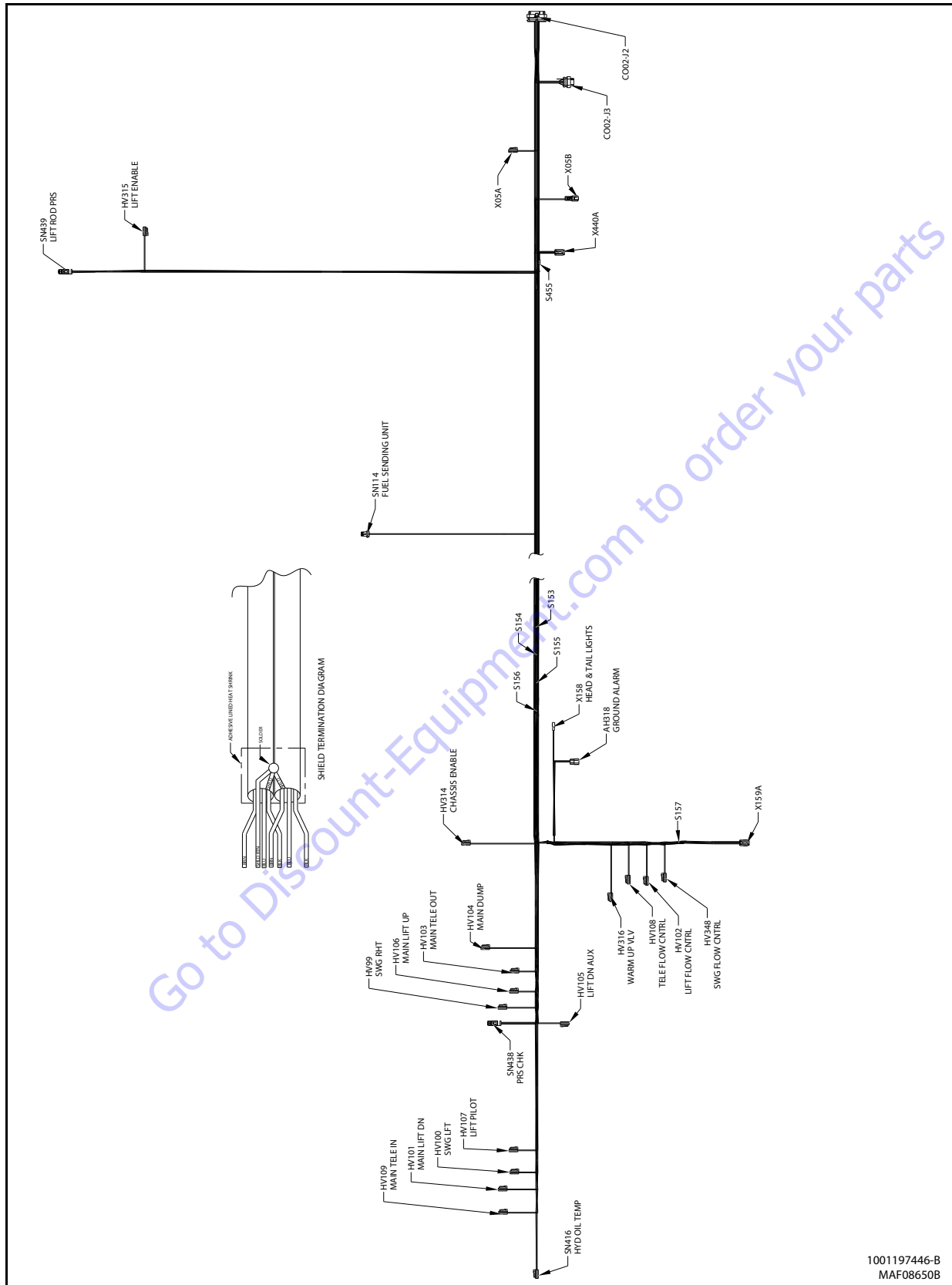


Figure 7-44. Hydraulic Valve Bank Harness (SN 0300201023 to Present)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X05B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-46	18 AWG	GXL	X05B (2)
2					

X440A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-30 LFT ENABLE	18 AWG	GXL	HV315 (1)
2	BRN	49-77 P C PWR	20 AWG	CABLE	SN438 (1)
3	BLK	49-76 P C GND	20 AWG	CABLE	SN438 (4)
4	BLU	49-75 PRS CHK	20 AWG	CABLE	SN438 (3)
5	BRN	49-73 L P PWR	20 AWG	CABLE	SN439 (1)
6	BLK	49-74 L P GND	20 AWG	CABLE	SN439 (4)
7	BLU	49-72 LIFT PRS	20 AWG	CABLE	SN439 (3)
8	SHLD	RTN	20 AWG	CABLE	S455 (1)

HV315 LIFT ENABLE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-30 LFT ENABLE	18 AWG	GXL	X440A (1)
2	WHT	60-7 LENABLE RTN	18 AWG	CABLE	C002-J3 (14)

SN439					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BRN	49-73 L P PWR	20 AWG	CABLE	X440A (5)
2					
3	BLU	49-72 LIFT PRS	20 AWG	CABLE	X440A (7)
4	BLK	49-74 L P GND	20 AWG	CABLE	X440A (6)
SHLD	SHLD	P LIFT SN	20 AWG	CABLE	S455 (2)

X05A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-46	18 AWG	GXL	C002-J2 (29)
2	BLK	0-46	18 AWG	GXL	C002-J3 (11)

C002-J3					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	60-1 LFCNTRL RTN	18 AWG	GXL	HV102 (2)
2	WHT	60-2 TFCNTRL RTN	18 AWG	GXL	HV108 (2)
3					
4	WHT	60-3 SWG RTN	18 AWG	GXL	HV348 (2)
5	WHT	60-6 WARM UP RTN	18 AWG	GXL	HV316 (2)
6					
7	WHT	52-8 ALRM PWR	18 AWG	GXL	AH318 (A)
8					
9	WHT	47-6 ALT EXC	18 AWG	GXL	X159A (12)
10					
11	BLK	0-46	18 AWG	GXL	X05A (2)
12					
13					
14	WHT	60-7 LENABLE RTN	18 AWG	GXL	HV315 (2)

SN416 HYD OIL TEMP					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	149-45 HYD OIL TEMP	18 AWG	GXL	X159A (6)
2	BLK	0-31	18 AWG	GXL	X159A (7)

HV109 MAIN TELE IN					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	13-4 MTELE IN	18 AWG	GXL	C002-J2 (4)
2	BLK	0-11-1	18 AWG	GXL	S156 (2)

HV101 MAIN LIFT DN					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	3-1 MLIFT DN	18 AWG	GXL	C002-J2 (22)
2	BLK	0-6-2	18 AWG	GXL	S155 (2)

HV100 SWG LFT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	22-2 SWG LFT	18 AWG	GXL	C002-J2 (15)
2	BLK	0-30-1	18 AWG	GXL	S153 (2)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

HV107 SWG LFT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-11 LFT PLT	18 AWG	GXL	C002-J2 (10)
2	BLK	0-10-1	18AWG	GXL	S154 (2)

HV105 LIFT DN AUX					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-10 LFT DN AUX	18 AWG	GXL	C002-J2 (12)
2	BLK	0-6-3	18AWG	GXL	S155 (2)

SN438					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BRN	49-77 P C PWR	20 AWG	CABLE	X440A (2)
2					
3	BLU	49-75 PRS CHK	20 AWG	CABLE	X440A (4)
4	BLK	49-76 P C GND	20 AWG	CABLE	X440A (3)
SHLD	SHLD	P CHK SN	20 AWG	CABLE	S455 (2)

HV99 SWG RHT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	22-1 SWG RHT	18 AWG	GXL	C002-J2 (32)
2	BLK	0-30-2	18 AWG	GXL	S153 (2)

HV106 MAIN LIFT UP					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	3-2 MLIFT UP	18 AWG	GXL	C002-J2 (32)
2	BLK	0-6-1	18 AWG	GXL	S155 (2)

HV103 MAIN TELE OUT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	13-3 MTELE OUT	18 AWG	GXL	C002-J2 (16)
2	BLK	0-11-2	18 AWG	GXL	S156 (2)

HV104 MAIN DUMP					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	50-1 MAIN DUMP	18 AWG	GXL	C002-J2 (13)
2	BLK	0-10-2	18 AWG	GXL	S154 (2)

HV314 CHASSIS ENABLE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-31 CHS ENABLE	18 AWG	GXL	C002-J2 (02)
2	BLK	0-36	18 AWG	GXL	C002-J2 (17)

X158 HEAD & TAIL LIGHTS					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	52-7 H&T LT SIG	18 AWG	GXL	C002-J2 (26)

SN114 FUEL SENDING UNIT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	47-10 FUL SEN	18 AWG	GXL	C002-J2 (25)
2	BLK	0-14-3	18 AWG	GXL	S157 (2)

AH318 GROUND ALARM					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	WHT	52-8 ALRM PWR	18 AWG	GXL	C002-J3 (7)
B	WHT	52-6 MOT ALRM	18 AWG	GXL	C002-J2 (27)
C	BLK	0-14-2	18 AWG	GXL	S157 (2)

HV316 WARM UP VLV					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-33 WARM UP	18 AWG	GXL	C002-J2 (33)
2	WHT	60-6 WARM UP RTN	18 AWG	GXL	C002-J3 (5)

HV348 SWG FLOW CNTRL					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-32 SWG F.C.	18 AWG	GXL	C002-J2 (35)
2	WHT	60-3 SWG RTN	18 AWG	GXL	C002-J3 (4)

HV108 TELE FLOW CNTRL					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-12 TELE FCNTRL	18 AWG	GXL	C002-J2 (9)
2	WHT	60-2 TFCNTRL RTN	18 AWG	GXL	C002-J3 (2)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

HV102 LIFT FLOW CNTRL					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-9 LFT FCNTRL	18 AWG	GXL	C002-J2 (19)
2	WHT	60-1 LFCNTRL RTN	18 AWG	GXL	C002-J3 (1)

X159A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	27-3 JIB DN O/R	18 AWG	GXL	C002-J2 (31)
2	WHT	25-6 PLVL UP O/R	18 AWG	GXL	C002-J2 (5)
3	WHT	25-5 PLVL DN O/R	18 AWG	GXL	C002-J2 (7)
4	WHT	50-2 PLTRM DUMP	16 AWG	GXL	C002-J2 (3)
5	WHT	50-3 JIB DUMP	16 AWG	GXL	C002-J2 (1)
6	WHT	49-45 HYD OIL TEMP	18 AWG	GXL	SN416 (1)
7	BLK	0-31	18 AWG	GXL	SN416 (2)
8					
9					
10					
11	BLK	0-14	16 AWG	GXL	S157 (1)
12	WHT	47-6 ALT EXC	18 AWG	GXL	C002-J3 (9)

C002-J2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	50-3 JIB DUMP	16 AWG	GXL	X159A (5)
2	WHT	55-31 CHS ENABLE	18 AWG	GXL	HV314 (1)
3	WHT	50-2 PLTRM DUMP	16 AWG	GXL	X159A (4)
4	WHT	13-4 MTELE IN	18 AWG	GXL	HV109 (1)
5	WHT	25-6 PLVL UP O/R	18 AWG	GXL	X159A (2)
6	BLK	0-11	16 AWG	GXL	S156 (1)
7	WHT	25-5 PLVL DN O/R	18 AWG	GXL	X159A (3)
8					
9	WHT	55-12 TELE FCNTRL	18 AWG	GXL	HV108 (1)
10	WHT	55-11 LFT PLT	18 AWG	GXL	HV107 (1)
11	WHT	3-2 MLIFT UP	18 AWG	GXL	HV106 (1)
12	WHT	55-10 LFT DN AUX	18 AWG	GXL	HV105 (1)
13	WHT	50-1 MAIN DUMP	18 AWG	GXL	HV104 (1)
14	BLK	0-10	16 AWG	GXL	S154 (1)
15	WHT	22-2 SWG LFT	18 AWG	GXL	HV100 (1)
16	WHT	13-3 MTELE OUT	18 AWG	GXL	HV103 (1)
17	BLK	0-36	18 AWG	GXL	HV314 (2)
18	BLK	0-30	18 AWG	GXL	S153 (1)
19	WHT	55-9 LFT FCNTRL	18 AWG	GXL	HV102 (1)
20					
21					
22	WHT	3-1 MLIFT DN	18 AWG	GXL	HV101 (1)
23					
24					
25	WHT	47-10 FUL SEN	18 AWG	GXL	SN114 (1)
26	WHT	52-7 H&T LT SIG	18 AWG	GXL	X158 (1)
27	WHT	52-6 MOT ALRM	18 AWG	GXL	AH318 (B)
28					
29	BLK	0-46	18 AWG	GXL	X05A (1)
30	BLK	0-6	16 AWG	GXL	S155 (1)
31	WHT	27-3 JIB DN O/R	18 AWG	GXL	X159A (1)
32	WHT	22-1 SWG RHT	18 AWG	GXL	HV99 (1)
33	WHT	55-33 WARM UP	18 AWG	GXL	HV316 (1)
34					
35	WHT	55-32 SWG F.C.	18 AWG	GXL	HV348 (1)

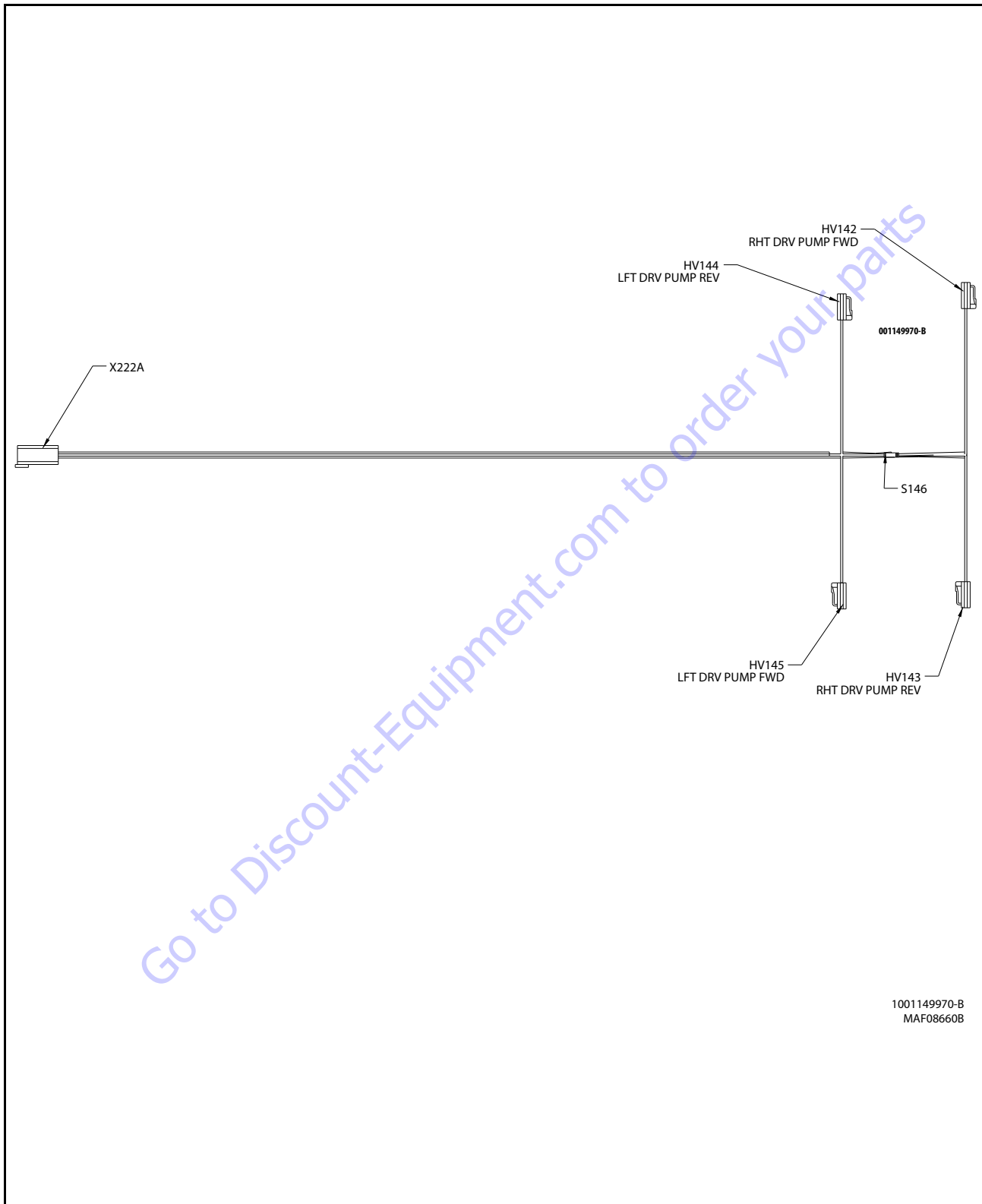


Figure 7-45. Drive Pump Harness

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X222A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	7-4 RDRV PFW	18 AWG	GXL	HV142 (1)
2	WHT	7-3 RDRV PREV	18 AWG	GXL	HV143 (1)
3	BLK	0-15	18 AWG	GXL	S146 (1)
4					
5	WHT	7-2 LDRV PREV	18 AWG	GXL	HV144 (1)
6	WHT	7-1 LDRV PFW	18 AWG	GXL	HV145 (1)

HV144 - LFT DRV PUMP REV					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	7-2 LDRV PREV	18 AWG	GXL	X222A (5)
2	BLK	0-15-3	18 AWG	GXL	S146 (1)

HV143 - RHT DRV PUMP REV					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	7-3 RDRV PREV	18 AWG	GXL	X222A (2)
2	BLK	0-15-2	18 AWG	GXL	S146 (2)

HV145 - LFT DRV PUMP FWD					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	7-1 LDRV PFW	18 AWG	GXL	X222A (6)
2	BLK	0-15-4	18 AWG	GXL	S146 (1)

HV142 - RHT DRV PUMP FWD					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	7-4 RDRV PFW	18 AWG	GXL	X222A (1)
2	BLK	0-15-1	18 AWG	GXL	S146 (2)

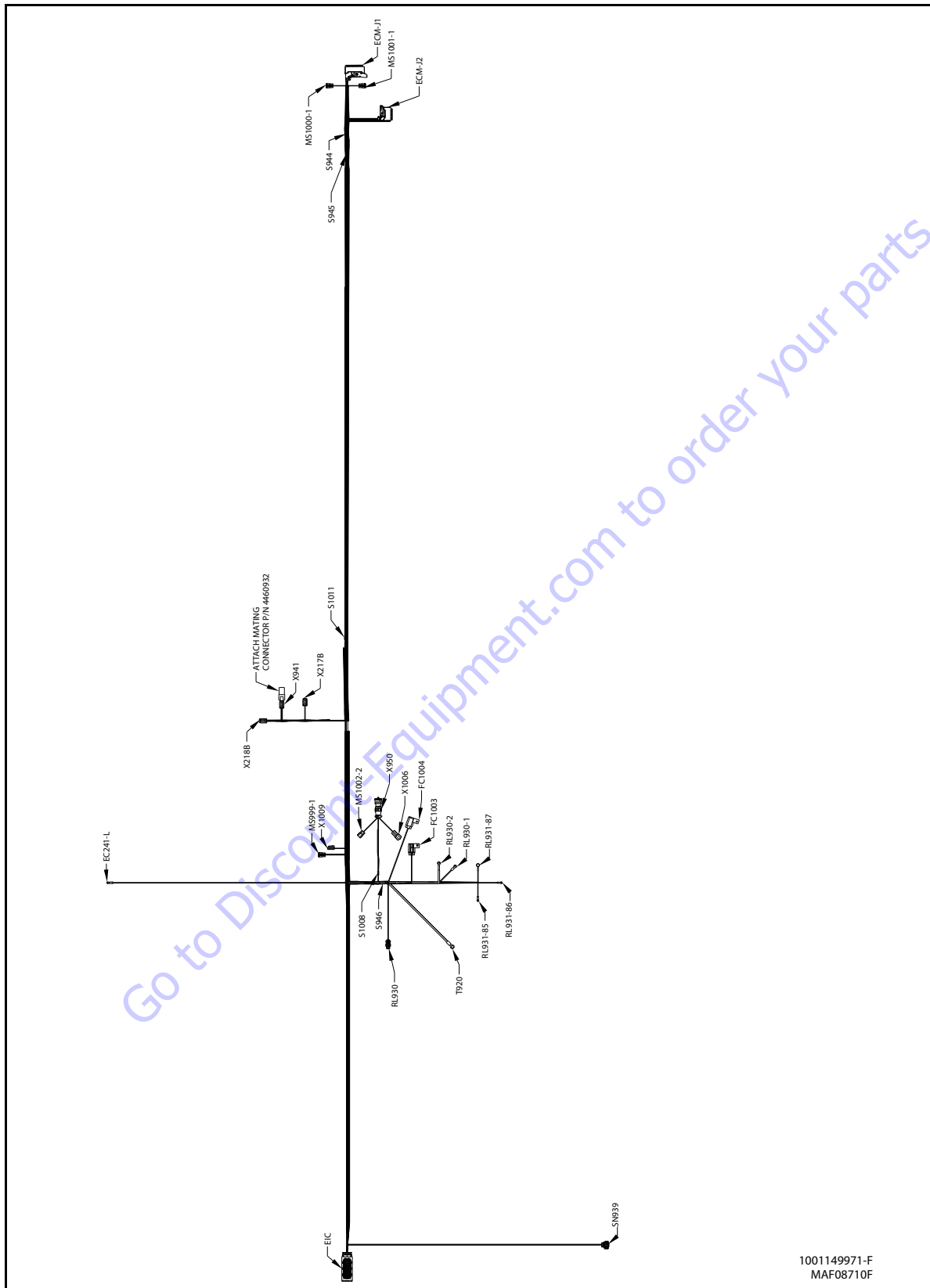


Figure 7-46. T4i Engine Harness

1001149971-F
MAF08710F

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

MS1001-1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN HIGH	0.75 mm ²	FLRYW	ECM-J1 (54)
2	GRN	CAN LOW	0.75 mm ²	FLRYW	ECM-J1 (76)

MS1000-1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN HIGH	0.75 mm ²	FLRYW	ECM-J1 (75)
2	GRN	CAN LOW	0.75 mm ²	FLRYW	ECM-J1 (53)

X218B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2	BLK	148-35-2 STRT REQ	0.75 mm ²	FLRYW	S1011 (2)
3	YEL	CAN HIGH	20 AWG	J1939 CABLE	MS999-1 (A)
4	GRN	CAN LOW	20 AWG	J1939 CABLE	MS999-1 (B)
5	WHT	47-6-2 ALT EXC	18 AWG	GXL	EC241-L (1)
6	SHLD	SHIELD	20 AWG	J1939 CABLE	MS999-1 (C)

X941					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	148-64 WATER IN FUEL SW	0.75 mm ²	FLRYW	ECM-J1 (64)
2	BLK	148-57 WATER IN FUEL SW RTN	0.75 mm ²	FLRYW	ECM-J1 (57)
3	WHT	48-96 FUEL PUMP	14 AWG	GXL	RL930-1 (1)
4	BLK	000-48-1 ENG GND	14 AWG	GXL	T920 (1)

MS1002-2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CAN HIGH	0.75 mm ²	FLRYW	X950 (H)
B	GRN	CAN LOW	0.75 mm ²	FLRYW	X950 (G)
C					

RL931-86					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-48-3 IGNITION	18 AWG	GXL	S946 (1)

RL931-87					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	ORG	248-23-1 GLOW SENSE	18 AWG	GXL	FC1003 (2)

X217B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-1-99 IGNITION	18 AWG	GXL	FC1004 (1)
2					
3					
4					

X950					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	2-48-2 IGNITION	18 AWG	GXL	S946 (2)
B	BLK	2-48-2 IGNITION	18 AWG	GXL	S1008 (2)
C					
D					
E					
F	GRN	CAN LOW	0.75 mm ²	FLRYW	X1006 (2)
G	GRN	CAN LOW	0.75 mm ²	FLRYW	MS1002-2 (B)
H	YEL	CAN HIGH	0.75 mm ²	FLRYW	MS1002-2 (A)
J					
K					
L					
M	YEL	CAN HIGH	0.75 mm ²	FLRYW	X1006 (1)
N.C					
NC					

X1006					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN HIGH	0.75 mm ²	FLRYW	X950 (M)
2	GRN	CAN LOW	0.75 mm ²	FLRYW	X950 (F)
3	BLK	000-48-4 SHLD	18 AWG	GXL	S1008 (2)

RL930-2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-148-135 ECM PWR	8 AWG	GXL	S944 (1)

RL931-85					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	248-35G LOW RELAY CONTROL GND	0.75 mm ²	FLRYW	ECM-J2 (35)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

EC241-L					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	47-6-2 ALT EXC	18 AWG	GXL	X218B (5)

T920					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	000-148-2	0.75 mm ²	FLRYW	X1009 (1)
1	BLK	000-148-246 ECM GND	8 AWG	GXL	S945 (1)
1	BLK	000-48-1 ENG GND	14 AWG	GXL	X941 (4)
1	BLK	000-48-3 ENG GND	18 AWG	GXL	S1008 (1)

RL930-1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	48-96 FUEL PUMP	14 AWG	GXL	X941 (3)

MS999-1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CAN HIGH	20 AWG	J1939 CABLE	X218B (3)
B	GRN	CAN LOW	20 AWG	J1939 CABLE	X218B (4)
C	SHLD	SHIELD	20 AWG	J1939 CABLE	X218B (6)

SN939					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	148-29 COOLANT LEVEL PWR	0.75 mm ²	FLRYW	ECM-J1 (29)
2	BLK	148-87 COOLANT LEVEL GND	0.75 mm ²	FLRYW	ECM-J1 (87)
3	BLK	148-13 COOLANT LEVEL SIG	0.75 mm ²	FLRYW	ECM-J1 (13)
4					

RL930					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-48-4 IGNITION	18 AWG	GXL	S946 (1)
2	BLK	148-26F UEL PUMP RELAY CONTROL GND	0.75 mm ²	FLRYW	ECM-J1 (26)

X1009					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	000-148-2	0.75 mm ²	FLRYW	T920 (1)
2	BLK	148-35-4 STRT REQ	0.75 mm ²	FLRYW	S1011 (2)

ECM-J1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	148-1 ECM PWR	2.5 mm ²	FLRYW	S944 (2)
2	BLK	148-2 ECM GND	2.5 mm ²	FLRYW	S945 (2)
3	RED	148-3 ECM PWR	2.5 mm ²	FLRYW	S944 (2)
4	BLK	148-4 ECM GND	2.5 mm ²	FLRYW	S945 (2)
5	RED	148-5 ECM PWR	2.5 mm ²	FLRYW	S944 (2)
6	BLK	148-6 ECM GND	2.5 mm ²	FLRYW	S945 (2)
7					
8					
9					
10					
11					
12					
13	BLK	148-13 COOLANT LEVEL SIG	0.75 mm ²	FLRYW	SN939 (3)
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26	BLK	148-26F UEL PUMP RELAY CONTROL GND	0.75 mm ²	FLRYW	RL930 (2)
27					
28	BLK	148-70 STRT GND	0.75 mm ²	FLRYW	EIC (2)
29	BLK	148-29 COOLANT LEVEL PWR	0.75 mm ²	FLRYW	SN939 (1)
30					
31					
32					
33					
34					
35	BLK	148-35-3 STRT REQ	0.75 mm ²	FLRYW	S1011 (1)
36					
37					
38	BLK	148-38 THROTTLE FLAP 4	0.75 mm ²	FLRYW	EIC (52)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

39					
40					
41					
42					
43					
44	BLK	148-44 E HXAUST GAS RECIRCULATION	0.75 mm ²	FLRYW	EIC (50)
45					
46					
47					
48					
49					
50					
51					
52					
53	GRN	CAN LOW	0.75 mm ²	FLRYW	MS1000-1 (B)
54	YEL	CAN HIGH	0.75 mm ²	FLRYW	MS1001-1 (A)
55					
56	BLK	148-56 AIR INLET TEMP	0.75 mm ²	FLRYW	EIC (34)
57	BLK	148-57 WATER IN FUEL SW RTN	0.75 mm ²	FLRYW	X941 (2)
58					
59					
60					
61	BLK	148-61 F UEL LOW PRESSURE	0.75 mm ²	FLRYW	EIC (17)
62					
63					
64	BLK	148-64 WATER IN FUEL SW	0.75 mm ²	FLRYW	X941 (1)
65					
66					
67					
68	BLK	148-15-68 CLUTCH SWITCH	0.75 mm ²	FLRYW	ECM-J1 (15)
69					
70					
71					
72	BLK	148-72 THROTTLE FLAP 3	0.75 mm ²	FLRYW	EIC (49)
73	BLK	148-71 STRT SIG	0.75 mm ²	FLRYW	EIC (3)
74					
75	YEL	CAN HIGH	0.75 mm ²	FLRYW	MS1000-1 (A)

76	GRN	CAN LOW	0.75 mm ²	FLRYW	MS1001-1 (B)
77					
78					
79					
80					
81					
82	BLK	148-82 E HXAUST GAS RECIRCULATION	0.75 mm ²	FLRYW	EIC (51)
83					
84					
85	BLK	148-85 E HXAUST GAS RECIRCULATION	0.75 mm ²	FLRYW	EIC (46)
86					
87	BLK	148-87 COOLANT LEVEL GND	0.75 mm ²	FLRYW	SN939 (2)
88	BLK	148-88 IGNITION	0.75 mm ²	FLRYW	S946 (2)
89					
90					
91					
92					
93					
94					

EIC					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	SHLD	248-38E NGINE SPEED CRANKSHAFT	0.75 mm ²	SHLD	ECM-J2 (38)
2	BLK	148-70 STRT GND	0.75 mm ²	FLRYW	ECM-J1 (28)
3	BLK	148-71 STRT SIG	0.75 mm ²	FLRYW	ECM-J1 (73)
4					
5					
6					
7					
8					
9	SHLD	248-53E NGINE SPEED CAMSHAFT	0.75 mm ²	SHLD	ECM-J2 (53)
10					
11					
12					
13	BLK	248-52E NGINE SPEED CAMSHAFT	0.75 mm ²	FLRYW	ECM-J2 (52)
14	BLK	248-37E NGINE SPEED CAMSHAFT	0.75 mm ²	FLRYW	ECM-J2 (37)
15	BLK	248-39E NGINE SPEED CRANKSHAFT	0.75 mm ²	FLRYW	ECM-J2 (39)
16					

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

17	BLK	148-61 FUEL LOW PRESSURE	0.75 mm ²	FLRYW	ECM-J1 (61)
18					
19	BLK	248-4M PROP ACTUATOR	1.5 mm ²	FLRYW	ECM-J2 (4)
20	BLK	248-5M PROP ACTUATOR	1.5 mm ²	FLRYW	ECM-J2 (5)
21	BLK	248-54 ENGINE SPEED CRANKSHAFT	0.75 mm ²	FLRYW	ECM-J2 (54)
22	BLK	248-24 BOOST PRESSURE / TEMP	0.75 mm ²	FLRYW	ECM-J2 (24)
23	BLK	248-43 OIL PRESSURE	0.75 mm ²	FLRYW	ECM-J2 (43)
24	BLK	248-28 COOLING TEMPERATURE	0.75 mm ²	FLRYW	ECM-J2 (28)
25	BLK	248-26 RAIL PRESSURE FUEL	0.75 mm ²	FLRYW	ECM-J2 (26)
26	BLK	248-44 OIL PRESSURE	0.75 mm ²	FLRYW	ECM-J2 (44)
27	BLK	248-29 OIL PRESSURE	0.75 mm ²	FLRYW	ECM-J2 (29)
28	BLK	248-40 AIR INLET TEMP	0.75 mm ²	FLRYW	ECM-J2 (40)
29	BLK	248-27 BOOST PRESSURE / TEMP	0.75 mm ²	FLRYW	ECM-J2 (27)
30					
31	BLK	248-25 RAIL PRESSURE FUEL	0.75 mm ²	FLRYW	ECM-J2 (25)
32	BLK	248-7 RAIL PRESSURE FUEL	0.75 mm ²	FLRYW	ECM-J2 (7)
33					
34	BLK	148-56 AIR INLET TEMP	0.75 mm ²	FLRYW	ECM-J1 (56)
35	BLK	248-16 INJECTOR 1	1.5 mm ²	FLRYW	ECM-J2 (16)
36					
37	BLK	248-18 INJECTOR 4	1.5 mm ²	FLRYW	ECM-J2 (18)
38	BLK	248-32 INJECTOR 3	1.5 mm ²	FLRYW	ECM-J2 (32)
39					
40	BLK	248-46 INJECTOR 2	1.5 mm ²	FLRYW	ECM-J2 (46)
41	BLK	248-3 INJECTOR 2	1.5 mm ²	FLRYW	ECM-J2 (3)
42	BLK	248-48 INJECTOR 4	1.5 mm ²	FLRYW	ECM-J2 (48)
43					
44					
45					
46	BLK	148-85 E HXAUST GAS RECIRCULATION	0.75 mm ²	FLRYW	ECM-J1 (85)
47	BLK	248-19 E HXAUST GAS RECIRCULATION	1.5 mm ²	FLRYW	ECM-J2 (19)
48	BLK	248-20 E HXAUST GAS RECIRCULATION	1.5 mm ²	FLRYW	ECM-J2 (20) 49 BLK
49	BLK	148-72 THROTTLE FLAP 3	0.75 mm ²	FLRYW	ECM-J1 (72)
50	BLK	148-44 E HXAUST GAS RECIRCULATION	0.75 mm ²	FLRYW	ECM-J1 (44)

51	BLK	148-82 E HXAUST GAS RECIRCULATION	0.75 mm ²	FLRYW	ECM-J1 (82)
52	BLK	148-38 THROTTLE FLAP 4	0.75 mm ²	FLRYW	ECM-J1 (38)
53					
54					
55					
56					
57					
58					
59					
60					
61	BLK	248-2 INJECTOR 3	1.5 mm ²	FLRYW	ECM-J2 (2)
62	BLK	248-33 INJECTOR 1	1.5 mm ²	FLRYW	ECM-J2 (33)

ECM-J2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2	BLK	248-2 INJECTOR 3	1.5 mm ²	FLRYW	EIC (61)
3	BLK	248-3 INJECTOR 2	1.5 mm ²	FLRYW	EIC (41)
4	BLK	248-4M PROP ACTUATOR	1.5 mm ²	FLRYW	EIC (19)
5	BLK	248-5M PROP ACTUATOR	1.5 mm ²	FLRYW	EIC (20)
6					
7	BLK	248-7 RAIL PRESSURE FUEL	0.75 mm ²	FLRYW	EIC (32)
8					
9					
10					
11					
12					
13					
14					
15					
16	BLK	248-16 INJECTOR 1	1.5 mm ²	FLRYW	EIC (35)
17					
18	BLK	248-18 INJECTOR 4	1.5 mm ²	FLRYW	EIC (37)
19	BLK	248-19 E HXAUST GAS RECIRCULATION	1.5 mm ²	FLRYW	EIC (47)
20	BLK	248-20 E HXAUST GAS RECIRCULATION	1.5 mm ²	FLRYW	EIC (48)
21					
22					
23	BLK	248-23 GLOW SENSE	0.75 mm ²	FLRYW	FC1003 (1)
24	BLK	248-24 BOOST PRESSURE / TEMP	0.75 mm ²	FLRYW	EIC (22)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

25	BLK	248-25 RAIL PRESSURE FUEL	0.75 mm ²	FLRYW	EIC (31)
26	BLK	248-26 RAIL PRESSURE FUEL	0.75 mm ²	FLRYW	EIC (25)
27	BLK	248-27 BOOST PRESSURE / TEMP	0.75 mm ²	FLRYW	EIC (29)
28	BLK	248-28 COOLING TEMPERATURE	0.75 mm ²	FLRYW	EIC (24)
29	BLK	248-29 OIL PRESSURE	0.75 mm ²	FLRYW	EIC (27)
30					
31					
32	BLK	248-32 INJECTOR 3	1.5 mm ²	FLRYW	EIC (38)
33	BLK	248-33 INJECTOR 1	1.5 mm ²	FLRYW	EIC (62)
34					
35	BLK	248-35G LOW RELAY CONTROL GND	0.75 mm ²	FLRYW	RL931-85 (1)
36					
37	BLK	248-37E NGINE SPEED CAMSHAFT	0.75 mm ²	FLRYW	EIC (14)
38	SHLD	248-38E NGINE SPEED CRANKSHAFT	0.75 mm ²	FLRYW	EIC (1)
39	BLK	248-39E NGINE SPEED CRANKSHAFT	0.75 mm ²	FLRYW	EIC (15)
40	BLK	248-40 AIR INLET TEMP	0.75 mm ²	FLRYW	EIC (28)
41					
42					
43	BLK	248-43 OIL PRESSURE	0.75 mm ²	FLRYW	EIC (23)
44	BLK	248-44 OIL PRESSURE	0.75 mm ²	FLRYW	EIC (26)
45					
46	BLK	248-46 INJECTOR 2	1.5 mm ²	FLRYW	EIC (40)
47					
48	BLK	248-48 INJECTOR 4	1.5 mm ²	FLRYW	EIC (42)
49					
50					
51					
52	BLK	248-52E NGINE SPEED CAMSHAFT	0.75 mm ²	FLRYW	EIC (13)
53	SHLD	248-53E NGINE SPEED CAMSHAFT	0.75 mm ²	SHLD	EIC (9)
54	BLK	248-54E NGINE SPEED CRANKSHAFT	0.75 mm ²	FLRYW	EIC (21)
55					
56					
57					
58					
59					
60					

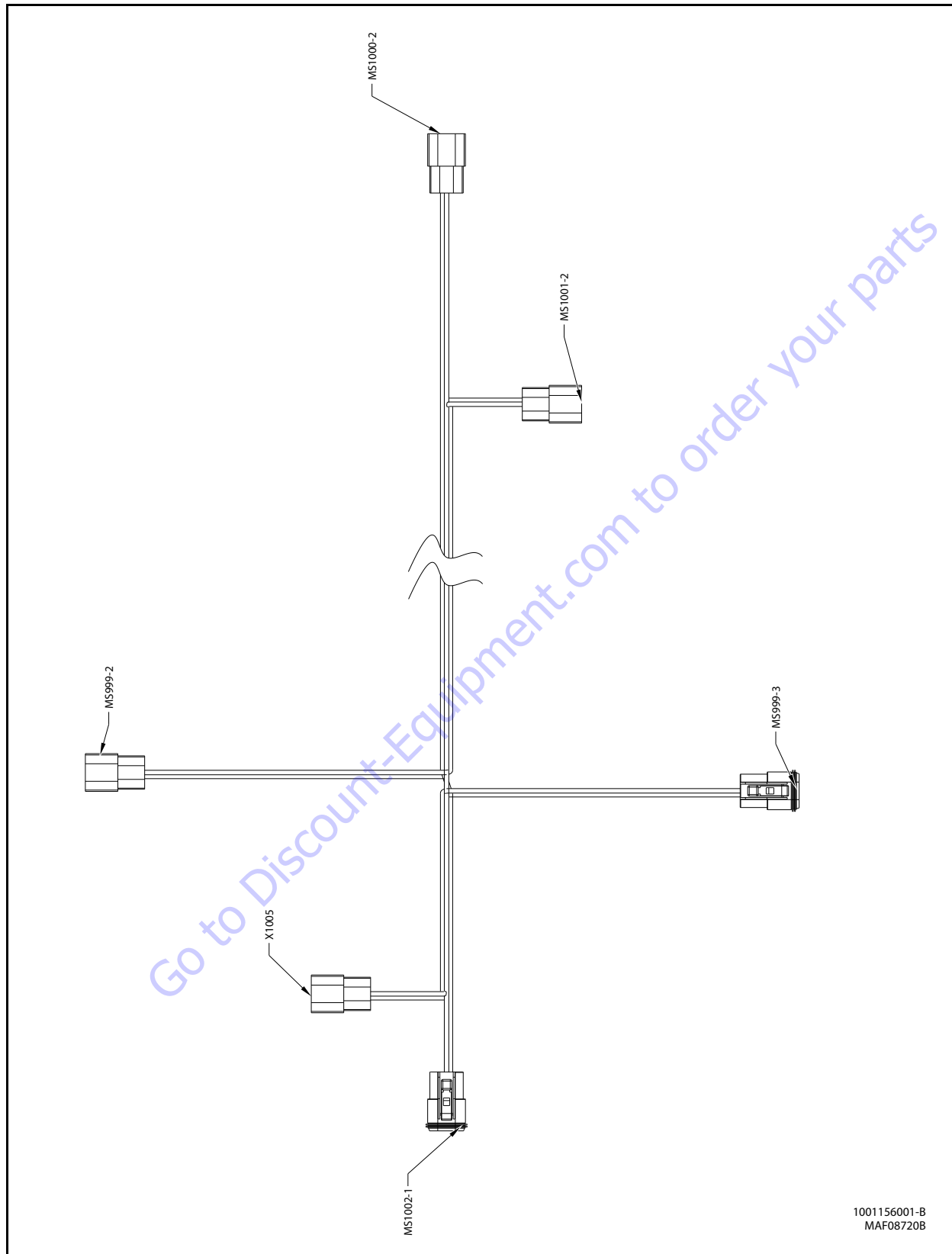


Figure 7-47. CAN Engine Harness - Sheet 1 of 2

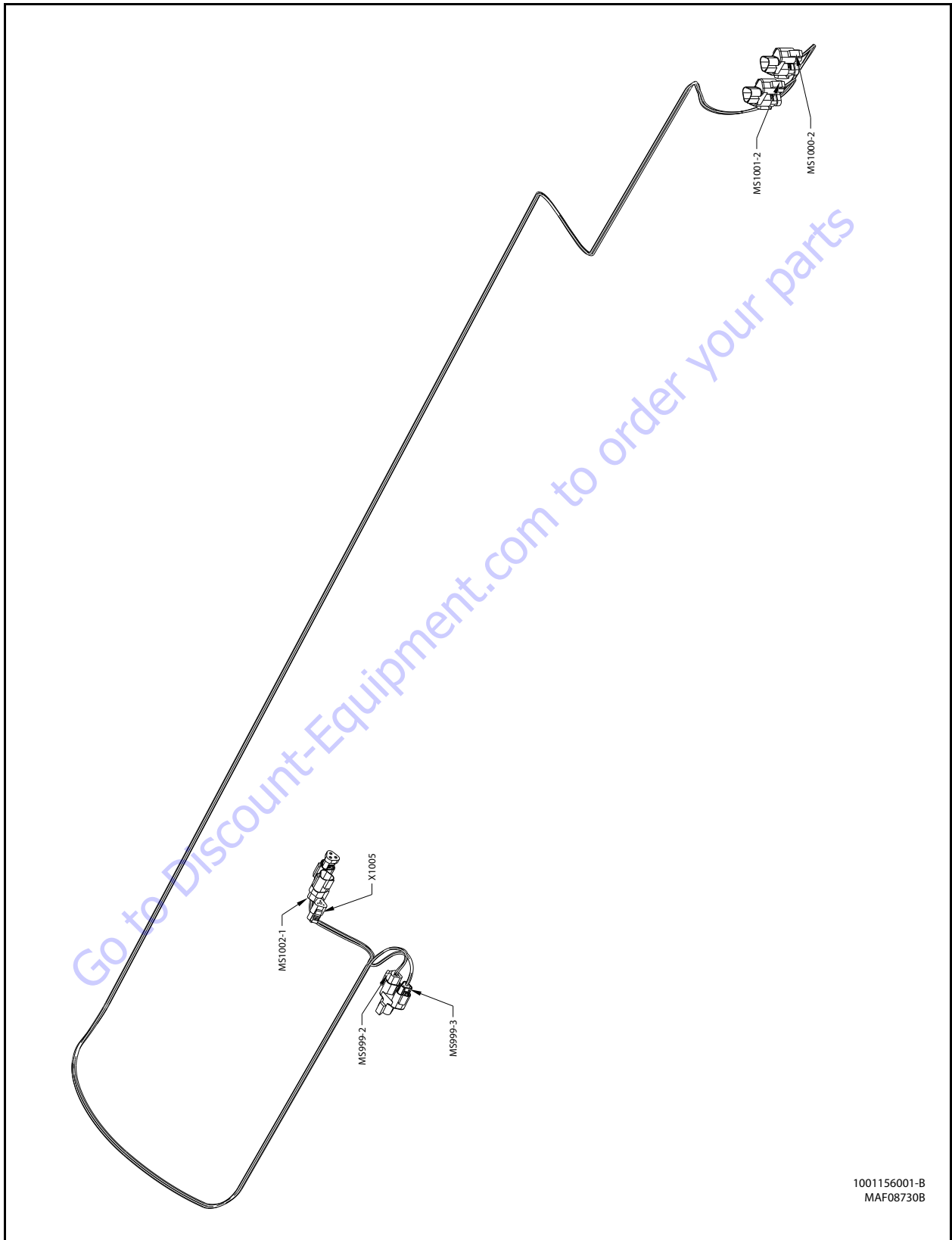


Figure 7-48. CAN Engine Harness - Sheet 2 of 2

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

MS1002-1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CAN HI	20 AWG	J1939 CABLE	MS1000-2 (A)
B	GRN	CAN LOW	20 AWG	J1939 CABLE	MS1000-2 (B)
C	SHLD	SHIELD	20 AWG	J1939 CABLE	MS1000-2 (C)

X1005					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN HI	20 AWG	J1939 CABLE	MS999-3 (A)
2	GRN	CAN LOW	20 AWG	J1939 CABLE	MS999-3 (B)
3	SHLD	SHIELD	20 AWG	J1939 CABLE	MS999-3 (C)

MS999-2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN HI	20 AWG	J1939 CABLE	MS1001-2 (A)
2	GRN	CAN LOW	20 AWG	J1939 CABLE	MS1001-2 (B)
3	SHLD	SHIELD	20 AWG	J1939 CABLE	MS1001-2 (C)

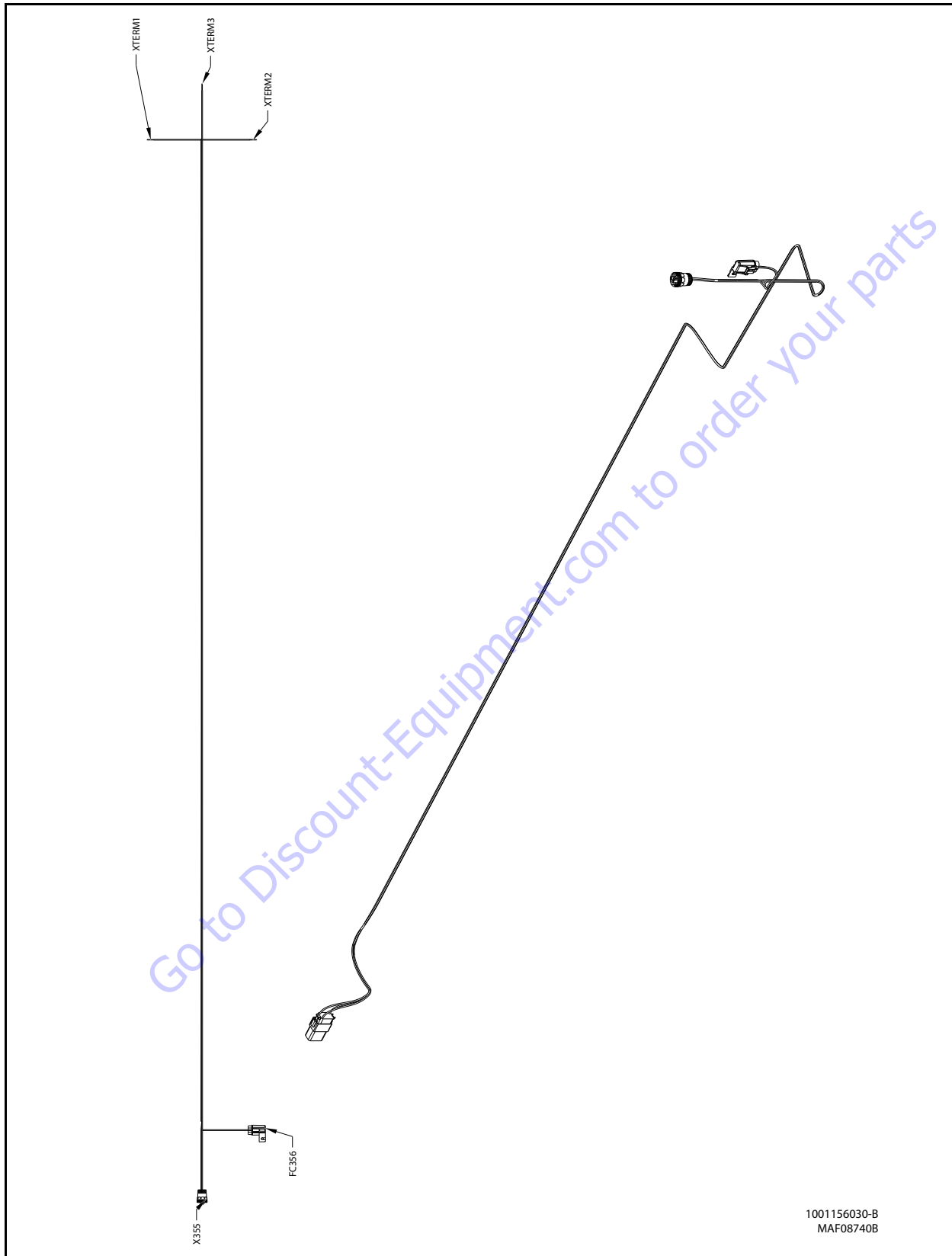
MS999-3					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN HI	20 AWG	J1939 CABLE	X1005 (1)
2	GRN	CAN LOW	20 AWG	J1939 CABLE	X1005 (2)
3	SHLD	SHIELD	20 AWG	J1939 CABLE	X1005 (3)

MS1000-2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN HI	20 AWG	J1939 CABLE	MS1002-1 (A)
2	GRN	CAN LOW	20 AWG	J1939 CABLE	MS1002-1 (B)
3	SHLD	SHIELD	20 AWG	J1939 CABLE	MS1002-1 (C)

MS1001-2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN HI	20 AWG	J1939 CABLE	MS999-2 (A)
2	GRN	CAN LOW	20 AWG	J1939 CABLE	MS999-2 (B)
3	SHLD	SHIELD	20 AWG	J1939 CABLE	MS999-2 (C)

Go to Discount-Equipment.com to order your parts

This page left blank intentionally



1001156030-B
MAF08740B

Figure 7-49. Generator Enable Harness

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X355					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-13	18 AWG	GXL	FC356 (2)
2	WHT	52-9 GEN	18 AWG	GXL	XTERM2 (1)
3	BLK	0-18	18 AWG	GXL	XTERM3 (1)

FC356					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-13	18 AWG	GXL	XTERM1 (1)
2	YEL	2-13	18 AWG	GXL	X355 (1)

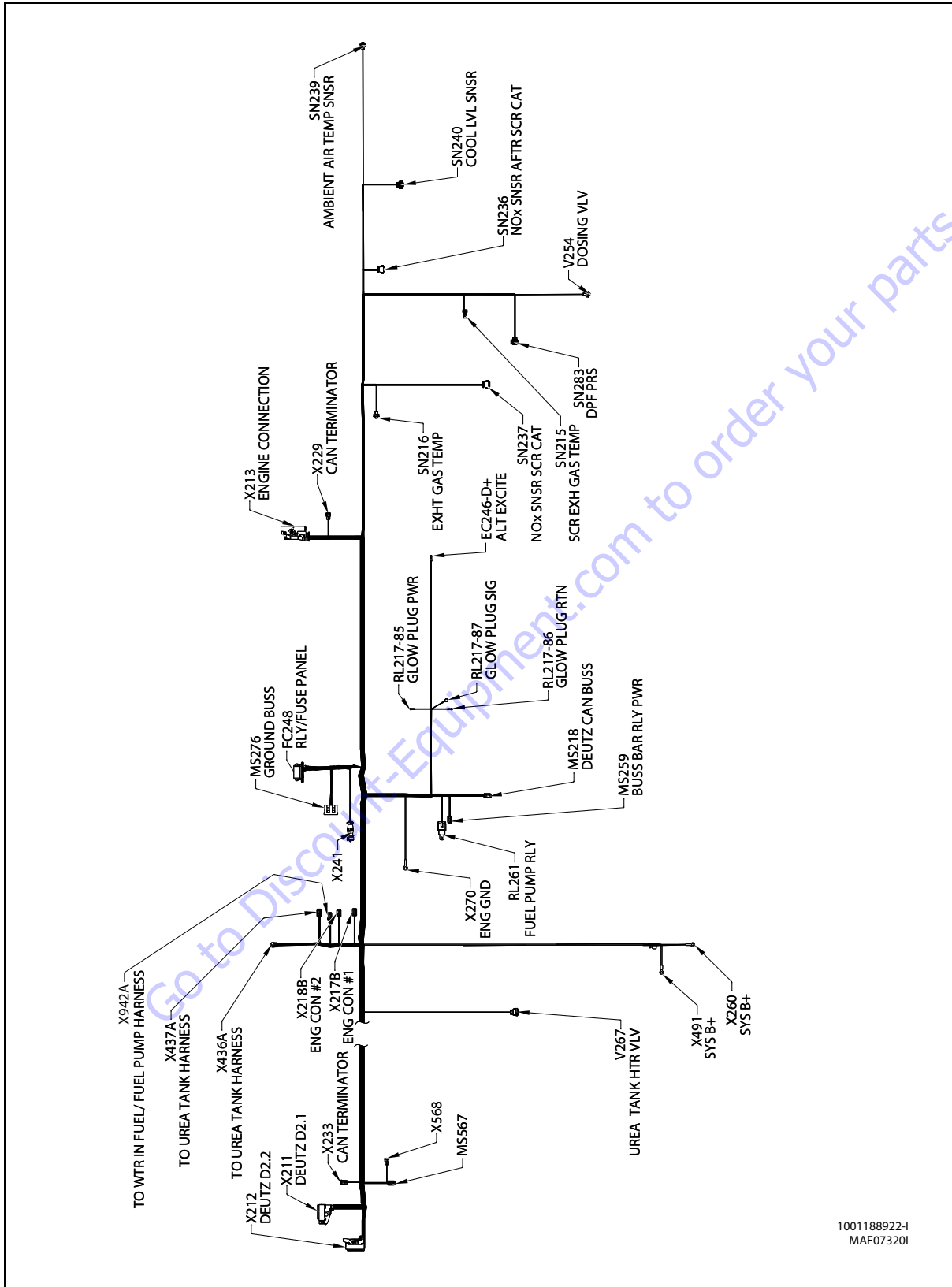
XTERM3					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-18	18 AWG	GXL	X355 (2)

XTERM2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	52-9 GEN	18 AWG	GXL	X355 (3)

XTERM1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-13	18 AWG	GXL	FC356 (1)

Go to Discount-Equipment.com to order your parts

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS



1001188922-1
MAF073201

Figure 7-50. T4F Engine Harness - Sheet 1 of 7

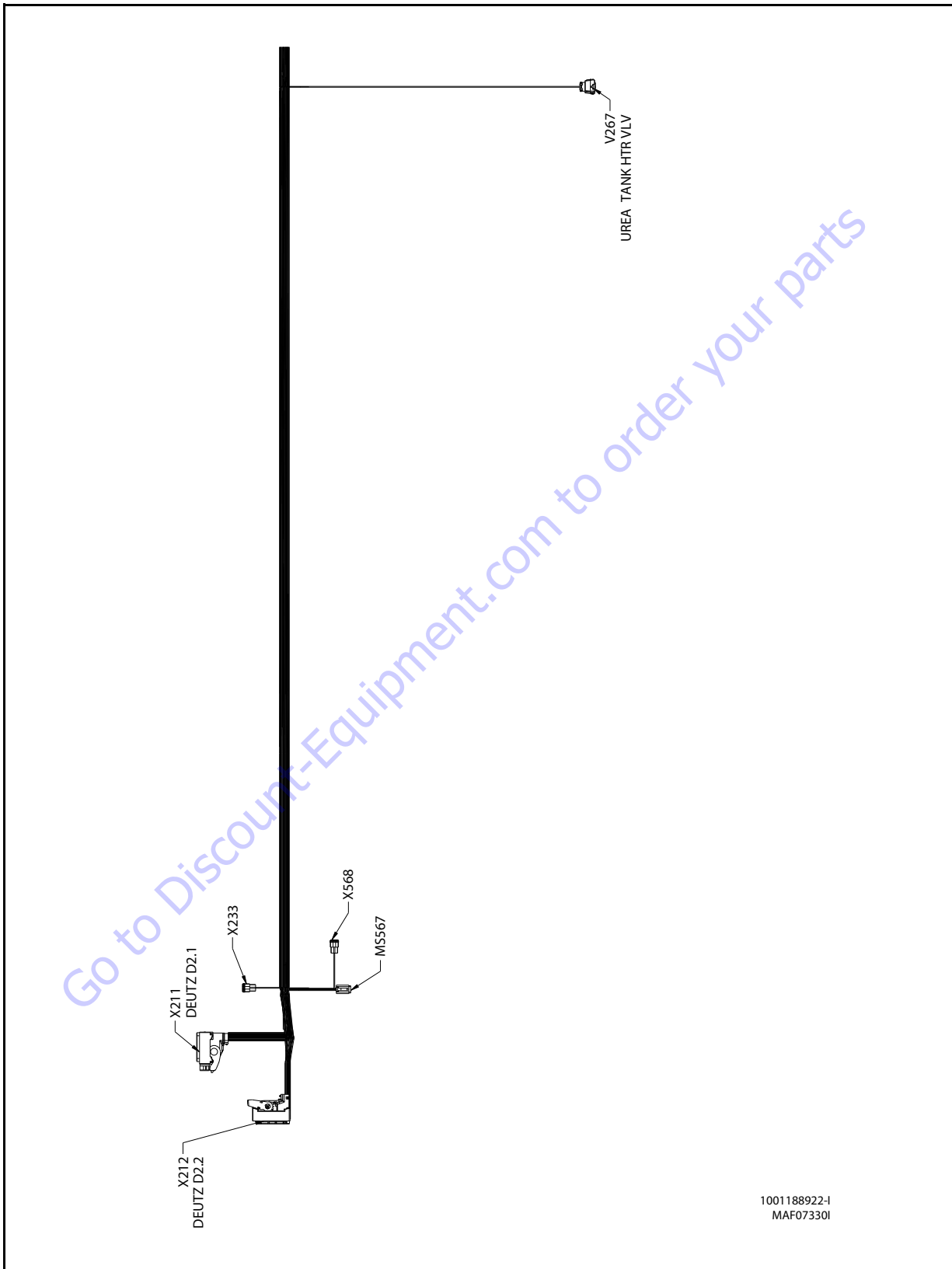


Figure 7-51. T4F Engine Harness - Sheet 2 of 7

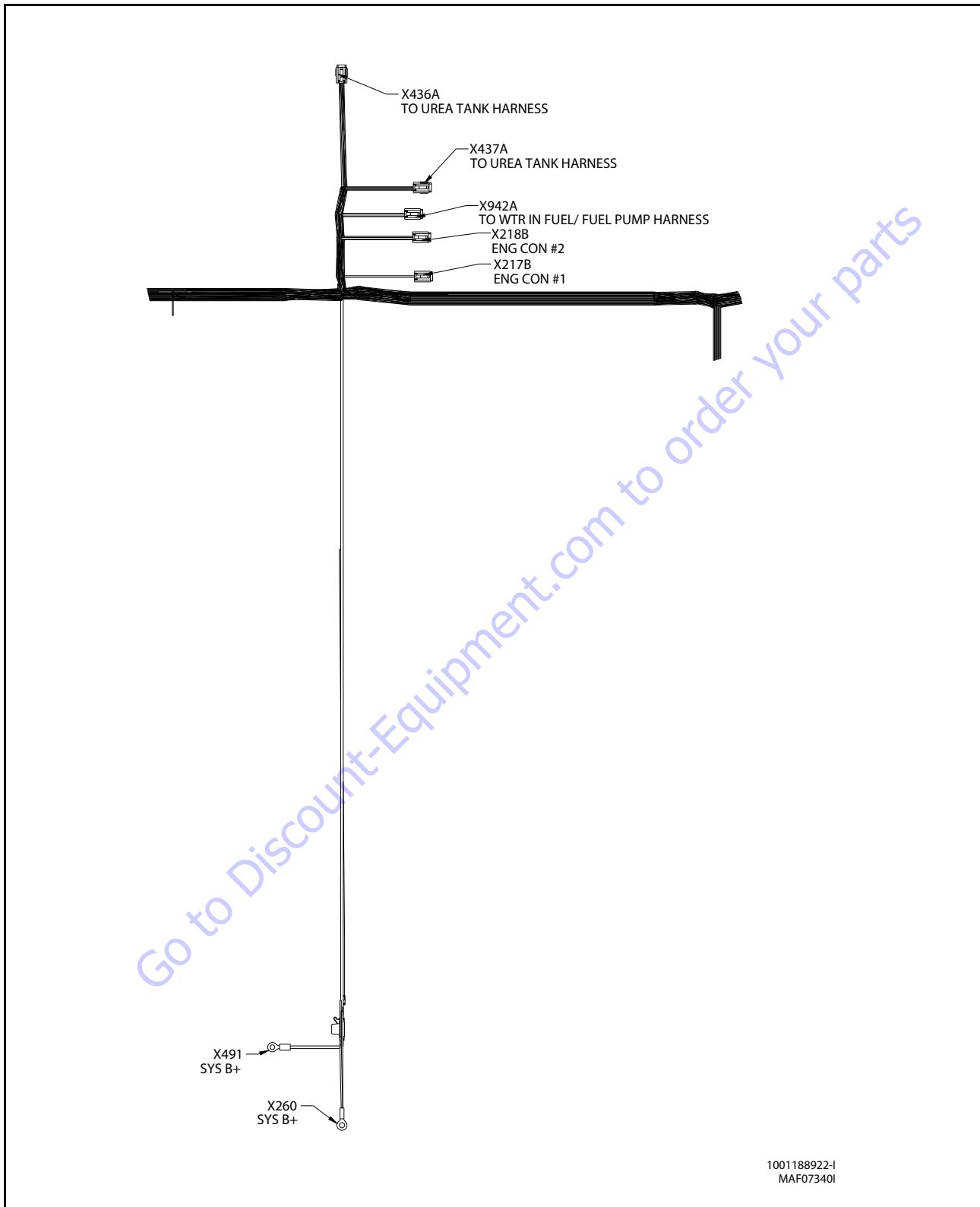
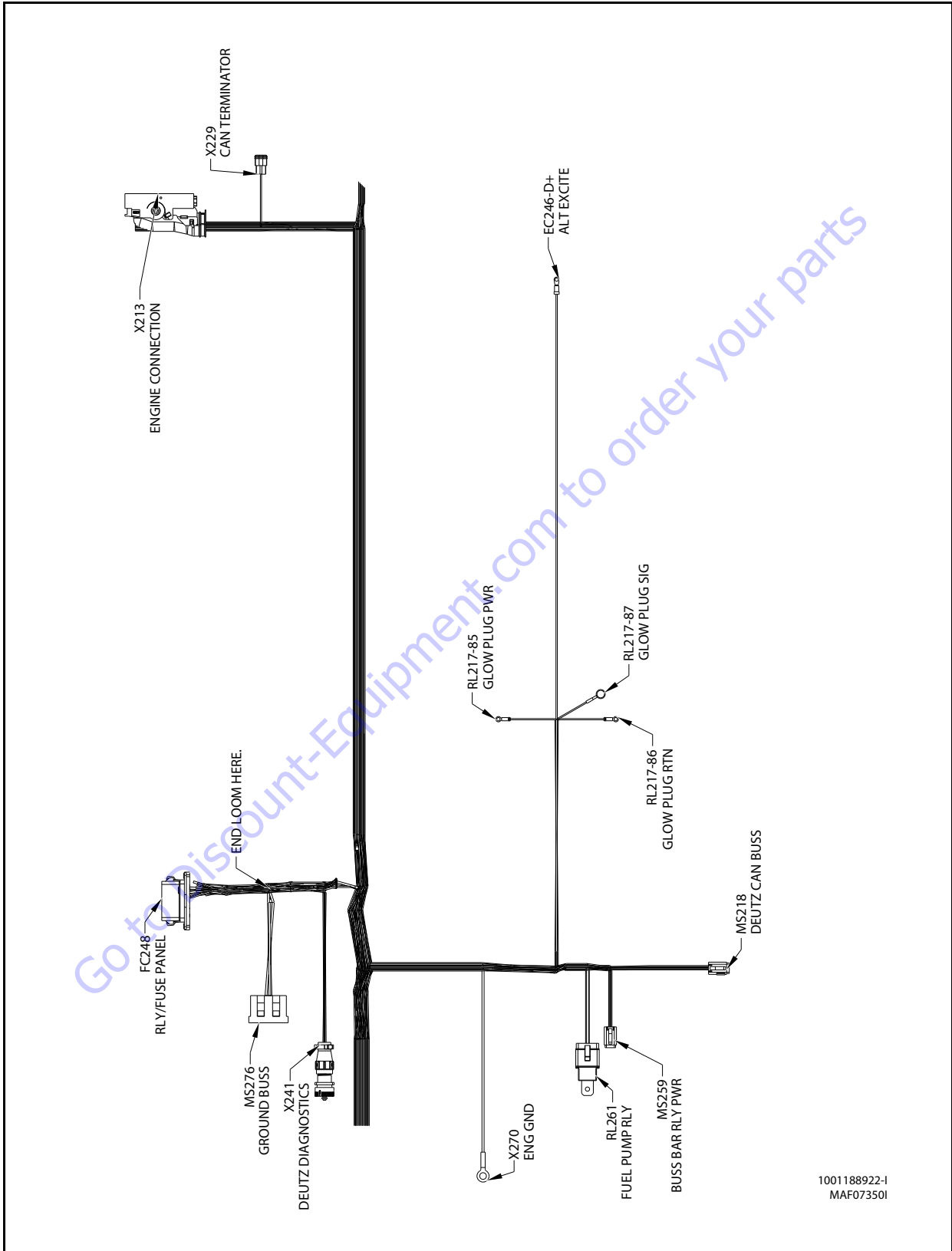


Figure 7-52. T4F Engine Harness - Sheet 3 of 7



1001188922-1
MAF073501

Figure 7-53. T4F Engine Harness - Sheet 4 of 7

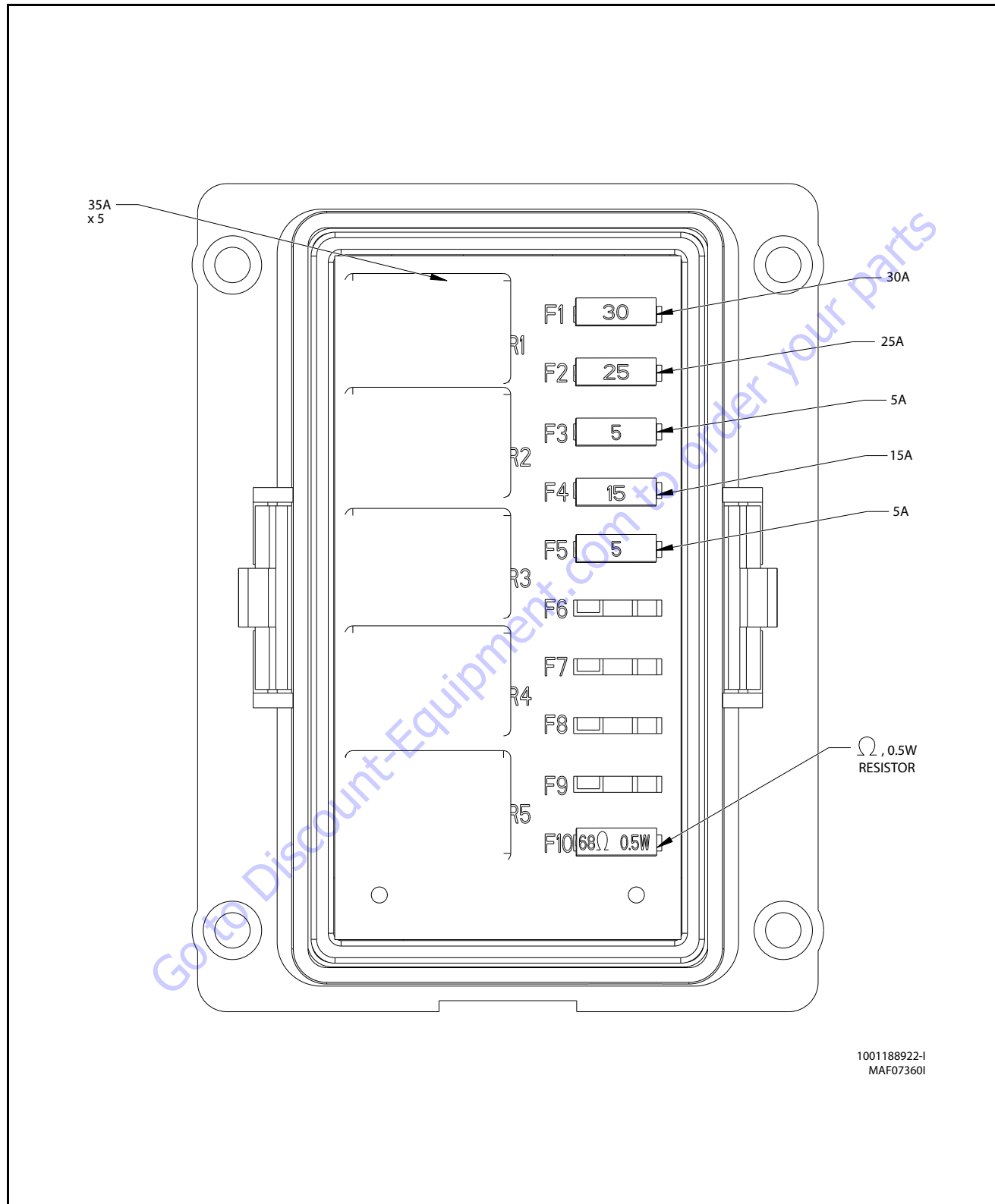


Figure 7-54. T4F Engine Harness - Sheet 5 of 7

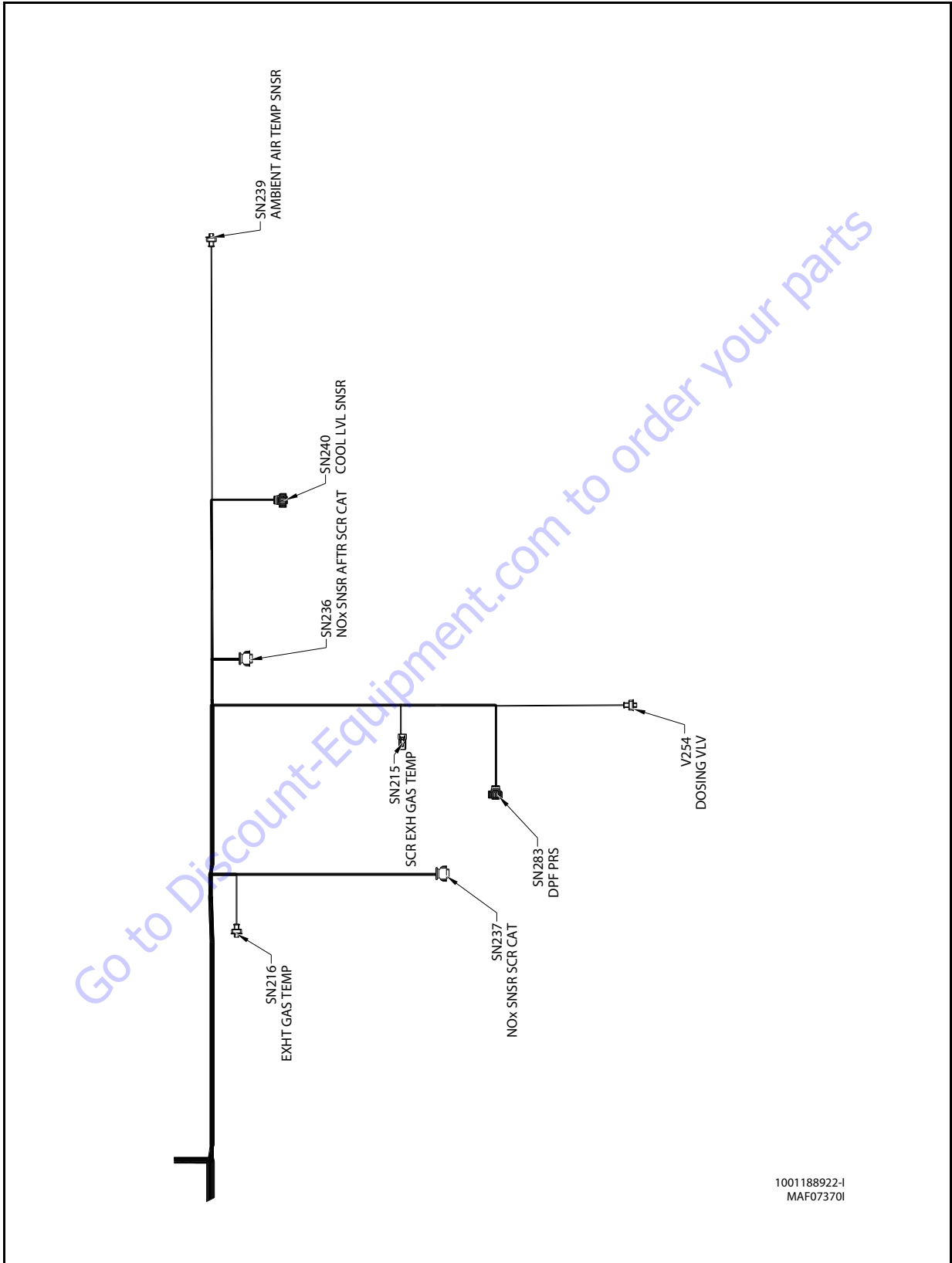


Figure 7-55. T4F Engine Harness - Sheet 6 of 7

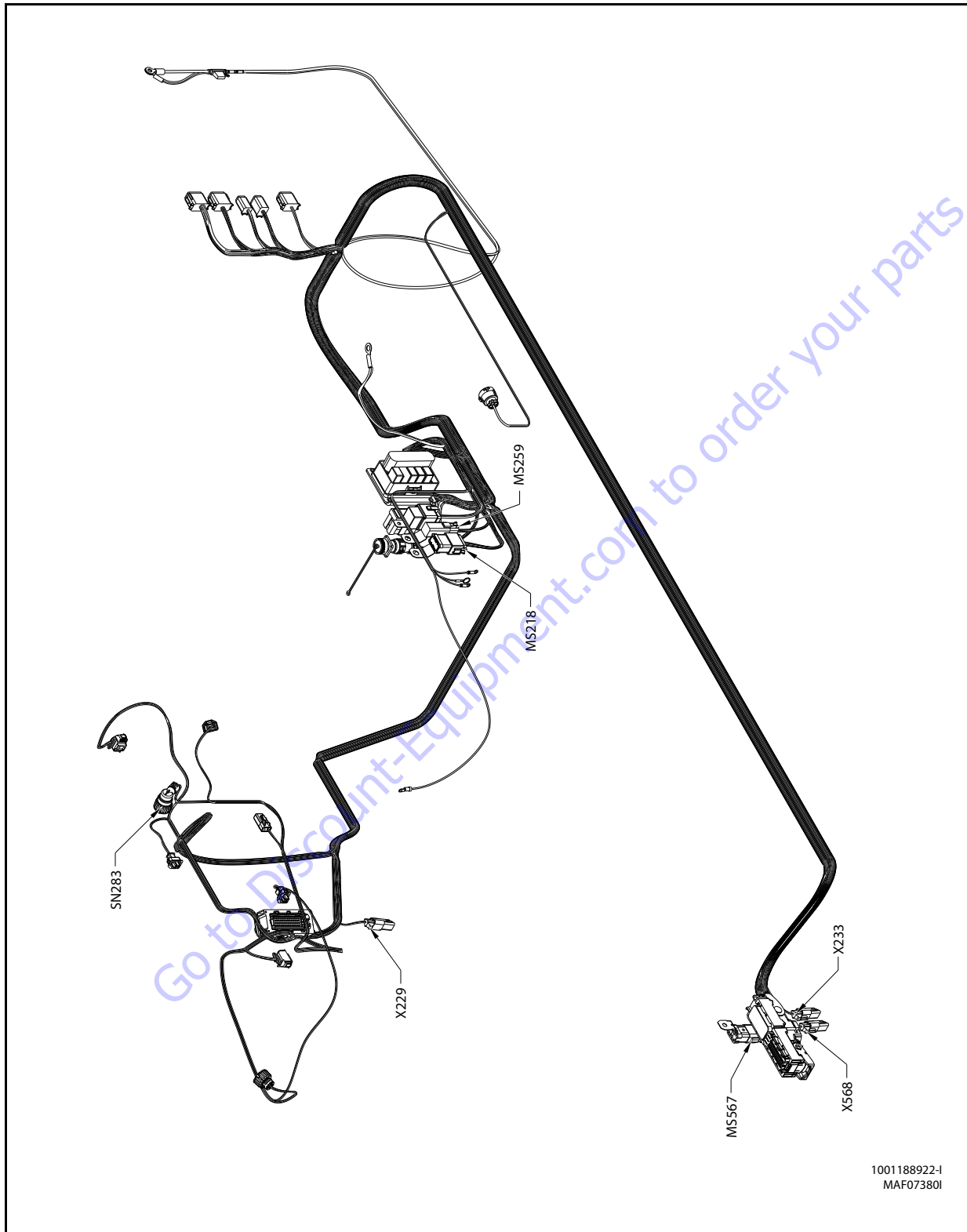


Figure 7-56. T4F Engine Harness - Sheet 7 of 7

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X212 - DEUTZD 2.2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-20-1	2.5mm ²	FLRYW	S280(2)
2	BLK	0-60-10-1	2.5mm ²	FLRYW	S278(2)
3	RED	1-20-2	2.5mm ²	FLRYW	S280(2)
4	BLK	0-60-10-2	2.5mm ²	FLRYW	S278(2)
5	RED	1-20-3	2.5mm ²	FLRYW	S280(2)
6	BLK	0-60-10-3	2.5mm ²	FLRYW	S278(2)
7					
8					
9					
10	WHT	73-2ATEMPSNSR	0.75mm ²	FLRYW	SN239(1)
11					
12					
13	WHT	77-3DPFPRSSIG	0.75mm ²	FLRYW	SN283(3)
14					
15					
16					
17					
18	WHT	77-1DPFPRSPWR	0.75mm ²	FLRYW	SN283(1)
19					
20					
21					
22					
23	WHT	48-95FULRLY86	0.75mm ²	FLRYW	RL261(5)
24					
25					
26	WHT	148-57WTR/FULRTN	0.75mm ²	FLRYW	X942A(2)
27					
28					
29					
30					
31	WHT	77-2DPFPRSRTN	0.75mm ²	FLRYW	SN283(2)
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					

42					
43	WHT	148-15CLUTCHSW	0.75mm ²	FLRYW	X212(91)
44					
45					
46					
47					
48					
49					
50	WHT	73-1ATEMPSNSR	0.75mm ²	FLRYW	SN239(2)
51					
52					
53					
54					
55					
56					
57	WHT	72-1COOLLVLPWR	0.75mm ²	FLRYW	SN240(1)
58					
59					
60					
61					
62	WHT	72-2COOLLVLSIG	0.75mm ²	FLRYW	SN240(3)
63					
64	WHT	148-35-3STRREQ	0.75mm ²	FLRYW	S285(1)
65					
66					
67	YEL	2-99-2	1mm ²	FLRYW	S272(1)
68					
69					
70	WHT	148-64WTR/FULSW	0.75mm ²	FLRYW	X942A(1)
71					
72					
73					
74	WHT	48-94FULRLY85	0.75mm ²	FLRYW	RL261(2)
75					
76					
77					
78					
79					
80					
81	WHT	72-3COOLLVLGND	0.75mm ²	FLRYW	SN240(2)
82	GRN	CNLCH2	0.75mm ²	FLRYW	X241(H)
83	YEL	CNHCH2	0.75mm ²	FLRYW	X241(G)
84					
85	YEL	CNHCH2	0.75mm ²	FLRYW	MS567(1)
86	GRN	CNLCH2	0.75mm ²	FLRYW	MS567(3)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

87					
88					
89					
90					
91					

X211-DEUTZD2.1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2	WHT	2-47EXHGASREC	1.5mm ²	FLRYW	X213(47)
3	WHT	3-5265CNTRLPWR	1.5mm ²	FLRYW	S265(1)
4	WHT	259RLYPWR	0.75mm ²	FLRYW	MS259(5)
5	WHT	5-X253PURGLV	0.75mm ²	FLRYW	X437A(11)
6					
7	WHT	7-52INTAKETHRTLE	0.75mm ²	FLRYW	X213(52)
8	WHT	8-7EGRTEMP	0.75mm ²	FLRYW	X213(7)
9	WHT	9-SN216EXHGASTEMP	0.75mm ²	FLRYW	SN216(2)
10					
11	WHT	11-29BSTPRSTEMP	0.75mm ²	FLRYW	X213(29)
12					
13	WHT	13-24COOLTEMP	0.75mm ²	FLRYW	X213(24)
14					
15	WHT	15-SN215EXHTEMP	0.75mm ²	FLRYW	SN215(2)
16					
17	WHT	17-32RAILPRSFUL	0.75mm ²	FLRYW	X213(32)
18	WHT	18-505V	0.75mm ²	FLRYW	X213(50)
19	WHT	19-X253UREAPRS	0.75mm ²	FLRYW	X437A(5)
20					
21	WHT	21-22PRSRRTN	0.75mm ²	FLRYW	X213(22)
22					
23	WHT	23-61INJCTRRTN	1.5mm ²	FLRYW	X213(61)
24	WHT	24-41INJCTRRTN	1.5mm ²	FLRYW	X213(41)
25	WHT	25-20MPROP	1.5mm ²	FLRYW	X213(20)
26	WHT	26-X254DOSEVLV	0.75mm ²	FLRYW	V254(1)
27	WHT	27-SN216EXHGASTEMP	0.75mm ²	FLRYW	SN216(1)
28					
29					
30					
31					
32					
33					
34					
35	WHT	35-27TEMP/PRSRRTN	0.75mm ²	FLRYW	X213(27)
36	WHT	36-31RAILPRSFUL	0.75mm ²	FLRYW	X213(31)

37	WHT	103-2THRLEHTR	0.75mm ²	FLRYW	FC248(B6)
38	WHT	38-49INTAKETHRTLE	0.75mm ²	FLRYW	X213(49)
39					
40					
41	WHT	41-FC248RLYGND	0.75mm ²	FLRYW	FC248(D9)
42					
43					
44	WHT	44-38INJCTR	1.5mm ²	FLRYW	X213(38)
45	WHT	45-40INJCTR	1.5mm ²	FLRYW	X213(40)
46	WHT	46-19MPROPRTN	1.5mm ²	FLRYW	X213(19)
47	WHT	47-X254DOSEVLV	0.75mm ²	FLRYW	V254(2)
48	WHT	48-SN215EXHTEMP	0.75mm ²	FLRYW	SN215(1)
49					
50					
51	WHT	51-6DELTAVNTRI	0.75mm ²	FLRYW	X213(6)
52					
53					
54	WHT	54-17FOLLOWPRS	0.75mm ²	FLRYW	X213(17)
55	WHT	55-46EGASRECSIG	0.75mm ²	FLRYW	X213(46)
56					
57	WHT	57-X253UREAPRS	0.75mm ²	FLRYW	X437A(6)
58	WHT	58-RL217GLOWRLYSIG	0.75mm ²	FLRYW	RL217-87(1)
59	WHT	59-X253UREAPUMP	0.75mm ²	FLRYW	X437A(10)
60					
61	WHT	104-1PRSHTR	0.75mm ²	FLRYW	FC248(B8)
62	WHT	101-2SUPMOD	0.75mm ²	FLRYW	FC248(B2)
63	WHT	63-RL217GLOWRLY	0.75mm ²	FLRYW	RL217-85(1)
64	WHT	64-35INJCTRRTN	1.5mm ²	FLRYW	X213(35)
65					
66	WHT	66-37INJCTRRTN	1.5mm ²	FLRYW	X213(37)
67	WHT	67-48EXHGASREC	1.5mm ²	FLRYW	X213(48)
68					
69					
70	WHT	70-X253UREAPRS	0.75mm ²	FLRYW	X437A(7)
71					
72	WHT	72-26OILPRS	0.75mm ²	FLRYW	X213(26)
73	WHT	73-23BSTPRSTEMP	0.75mm ²	FLRYW	X213(23)
74	WHT	74-28BSTPRSTEMP	0.75mm ²	FLRYW	X213(28)
75	WHT	75-S214SHLDRTN	0.75mm ²	FLRYW	S214(1)
76	WHT	76-51GNDRTN	0.75mm ²	FLRYW	X213(51)
77	YEL	CNH(DEUTZ)	0.75mm ²	FLRYW	MS218(6)
78	WHT	78-25RAILPRSFUL	0.75mm ²	FLRYW	X213(25)
79					
80	WHT	102-1STIONHTR	0.75mm ²	FLRYW	FC248(B4)
81					

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

82	WHT	82-X253PURGVLV	0.75mm ²	FLRYW	X437A(12)
83					
84					
85	WHT	85-62INJCTR	1.5mm ²	FLRYW	X213(62)
86					
87	WHT	87-42INJCTR	1.5mm ²	FLRYW	X213(42)
88	WHT	88-RL217GLOWRLYRTN	0.75mm ²	FLRYW	RL217-86(1)
89	WHT	89-X253UREAPUMP	0.75mm ²	FLRYW	X437A(9)
90					
91					
92	WHT	92-X267UREAHEATVLV	0.75mm ²	FLRYW	V267(1)
93					
94	WHT	94-3STRTRTN	0.75mm ²	FLRYW	X213(3)
95	WHT	95-2STRTSIG	0.75mm ²	FLRYW	X213(2)
96					
97					
98	GRN	CNL(DEUTZ)	0.75mm ²	FLRYW	MS218(10)
99	BLK	99-13CAMENGSPD	0.75mm ²	FLRYW	X213(13)
100	WHT	100-14CAMENGSPD	0.75mm ²	FLRYW	X213(14)
101	BLK	101-21CRKENGSPD	0.75mm ²	FLRYW	X213(21)
102	WHT	102-15CRKENGSPD	0.75mm ²	FLRYW	X213(15)
103					
104					
105					

X233					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CNH(DEUTZ)	0.75mm ²	FLRYW	MS218(5)
B	GRN	CNL(DEUTZ)	0.75mm ²	FLRYW	MS218(3)
C					

S278					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-60-10	6mm ²	FLRYW	MS276(10)
2	BLK	0-60-10-1	2.5mm ²	FLRYW	X212(2)
2	BLK	0-60-10-2	2.5mm ²	FLRYW	X212(4)
2	BLK	0-60-10-3	2.5mm ²	FLRYW	X212(6)

S280					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-20	6mm ²	FLRYW	IP481(1)
2	RED	1-20-1	2.5mm ²	FLRYW	X212(1)
2	RED	1-20-2	2.5mm ²	FLRYW	X212(3)
2	RED	1-20-3	2.5mm ²	FLRYW	X212(5)

MS567					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CNHCH2	0.75mm ²	FLRYW	X212(85)
2	YEL	CNHCH2	0.75mm ²	FLRYW	X568(A)
3	GRN	CNLCH2	0.75mm ²	FLRYW	X212(86)
4	GRN	CNLCH2	0.75mm ²	FLRYW	X568(B)
5	GRN	CNLCH2	0.75mm ²	FLRYW	X241(F)
6	GRN	CNLCH2	0.75mm ²	FLRYW	X218B(4)
7	YEL	CNHCH2	0.75mm ²	FLRYW	X241(M)
8	YEL	CNHCH2	0.75mm ²	FLRYW	X218B(3)

X568					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CNHCH2	0.75mm ²	FLRYW	MS567(2)
B	GRN	CNLCH2	0.75mm ²	FLRYW	MS567(4)
C					

V267-UREA TANK HTR VLV					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	92-X267UREAHEATVLV	0.75mm ²	FLRYW	X211(92)
2					
3					
4	YEL	2-60-2	0.75mm ²	FLRYW	S271(1)

S485					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-30-1	3mm ²	FLRYW	FC248(AA1)
2			16AWG	FUSIBLE LINK	X260(1)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

S486					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-31-1	3mm ²	FLRYW	FC248(A2)
2			16AWG	FUSIBLE LINK	X260(1)

S285					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	148-35-3STRREQ	0.75mm ²	FLRYW	X212(64)
2	WHT	148-35-2STRREQ	0.75mm ²	FLRYW	X218B(2)
2	WHT	148-35-4STRREQ	0.75mm ²	FLRYW	FC248(AA10)

IP481 30 AATO					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-20	6mm ²	FLRYW	S280(1)
2	RED	1-20	6mm ²	FLRYW	X491(1)

X491SYSB+					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-20	6mm ²	FLRYW	IP481(2)

X260 SYSB+					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1			16AWG	FUSIBLELINK	S486(2)
1			16AWG	FUSIBLELINK	S485(2)

S271					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-60-1	1.5mm ²	FLRYW	X437A(8)
1	YEL	2-60-2	0.75mm ²	FLRYW	V267(4)
1	YEL	2-60-3	2.5mm ²	FLRYW	X436A(8)
2	YEL	2-60	3mm ²	FLRYW	FC248(D10)
2	YEL	2-60-4	2.5mm ²	FLRYW	X436A(6)
2	YEL	2-60-5	2.5mm ²	FLRYW	X436A(4)

S265					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	3-S265CNTRLPWR	1.5mm ²	FLRYW	X211(3)
1	WHT	105-1CNTRLPWR	1.5mm ²	FLRYW	X437A(1)
2	WHT	105-2CNTRLPWR	1.5mm ²	FLRYW	FC248(B10)

S273					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-100-1	1mm ²	FLRYW	FC248(AA3)
1	YEL	2-100-2	1mm ²	FLRYW	FC248(AA4)
1	YEL	2-100-3	1mm ²	FLRYW	FC248(AA5)
2	YEL	2-100	2mm ²	FLRYW	X218B(1)
2	YEL	2-100-4	2mm ²	FLRYW	X217B(8)

S272					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-99-2	1mm ²	FLRYW	X212(67)
1	YEL	2-99-3	0.75mm ²	FLRYW	X241(A)
2	YEL	2-99-1	1mm ²	FLRYW	X217B(1)

X217B ENGCON#1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-99-1	1mm ²	FLRYW	S272(2)
2					
3					
4					
5					
6					
7					
8	YEL	2-100-4	2mm ²	FLRYW	S273(2)

X218 BENGCON#2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-100	2mm ²	FLRYW	S273(2)
2	WHT	148-35-2STRREQ	0.75mm ²	FLRYW	S285(2)
3	YEL	CNHCH2	0.75mm ²	FLRYW	MS567(8)
4	GRN	CNLCH2	0.75mm ²	FLRYW	MS567(6)
5	WHT	47-6-1ALTEXC	1mm ²	FLRYW	EC246-D+(1)
6					

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X942A TO WTR IN FUL/FUL PUMP HARNESS					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	148-64WTR/FULSW	0.75mm ²	FLRYW	X212(70)
2	WHT	148-57WTR/FULRTN	0.75mm ²	FLRYW	X212(26)
3	WHT	48-96FUELPUMP	3mm ²	FLRYW	RL261(4)
4	BLK	0-60-7-2	2.5mm ²	FLRYW	S281(2)

X437A TO UREA TANK HARNESS					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	105-1CNTRLPWR	1.5mm ²	FLRYW	S265(1)
2					
3	WHT	101-1HTR1	0.75mm ²	FLRYW	FC248(D2)
4					
5	WHT	19-X253UREAPRS	0.75mm ²	FLRYW	X211(19)
6	WHT	57-X253UREAPRS	0.75mm ²	FLRYW	X211(57)
7	WHT	70-X253UREAPRS	0.75mm ²	FLRYW	X211(70)
8	YEL	2-60-1	1.5mm ²	FLRYW	S271(1)
9	WHT	89-X253UREAPUMP	0.75mm ²	FLRYW	X211(89)
10	WHT	59-X253UREAPUMP	0.75mm ²	FLRYW	X211(59)
11	WHT	5-X253PURGVLV	0.75mm ²	FLRYW	X211(5)
12	WHT	82-X253PURGVLV	0.75mm ²	FLRYW	X211(82)

X436A TO UREA TANK HARNESS					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2					
3	WHT	104-2PRSHTR	2.5mm ²	FLRYW	FC248(D8)
4	YEL	2-60-5	2.5mm ²	FLRYW	S271(2)
5	WHT	103-1THRLEHTR	2.5mm ²	FLRYW	FC248(D6)
6	YEL	2-60-4	2.5mm ²	FLRYW	S271(2)
7	WHT	102-2STIONHTR	2.5mm ²	FLRYW	FC248(D4)
8	YEL	2-60-3	2.5mm ²	FLRYW	S271(1)
9	YEL	2-100-1	1mm ²	FLRYW	FC248(A3)
10	BLK	0-60-9-1	1mm ²	FLRYW	S284(1)
11	YEL	CNH(DEUTZ)	0.75mm ²	FLRYW	MS218(9)
12	GRN	CNL(DEUTZ)	0.75mm ²	FLRYW	MS218(12)

X270 ENG GND					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-60-1	3mm ²	FLRYW	MS276(1)
1	BLK	0-60-2	3mm ²	FLRYW	MS276(2)

RL261 FUL PUMP RLY					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-31	3mm ²	FLRYW	FC248(AA2)
2	WHT	48-94FULRLY85	0.75mm ²	FLRYW	X212(74)
3					
4	WHT	48-96FUELPUMP	3mm ²	FLRYW	X942A(3)
5	WHT	48-95FULRLY86	0.75mm ²	FLRYW	X212(23)

MS259 BUSS BAR RLY PWR					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	259-4RLYPWR	0.75mm ²	FLRYW	FC248(D7)
2	WHT	259-3RLYPWR	0.75mm ²	FLRYW	FC248(D5)
3	WHT	259-2RLYPWR	0.75mm ²	FLRYW	FC248(D3)
4	WHT	259-1RLYPWR	0.75mm ²	FLRYW	FC248(D1)
5	WHT	259RLYPWR	0.75mm ²	FLRYW	X211(4)
6					

RL217-86 GLOW PLUG RTN					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	88-RL217GLOWRLYRTN	0.75mm ²	FLRYW	X211(88)

RL217-87 GLOW PLUG SIG					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	58-RL217GLOWRLYSIG	0.75mm ²	FLRYW	X211(58)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

MS218 DEUTZ CAN BUSS					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	GRN	CNL(DEUTZ)	0.75mm ²	FLRYW	X229(B)
2	GRN	CNL(DEUTZ)	0.75mm ²	FLRYW	SN236(2)
3	GRN	CNL(DEUTZ)	0.75mm ²	FLRYW	X233(B)
4	YEL	CNH(DEUTZ)	0.75mm ²	FLRYW	X229(A)
5	YEL	CNH(DEUTZ)	0.75mm ²	FLRYW	X233(A)
6	YEL	CNH(DEUTZ)	0.75mm ²	FLRYW	X211(77)
7	YEL	CNH(DEUTZ)	0.75mm ²	FLRYW	SN236(1)
8	YEL	CNH(DEUTZ)	0.75mm ²	FLRYW	SN237(1)
9	YEL	CNH(DEUTZ)	0.75mm ²	FLRYW	X436A(11)
10	GRN	CNL(DEUTZ)	0.75mm ²	FLRYW	X211(98)
11	GRN	CNL(DEUTZ)	0.75mm ²	FLRYW	SN237(2)
12	GRN	CNL(DEUTZ)	0.75mm ²	FLRYW	X436A(12)

EC246-D+ ALTEXCITE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	47-6-1ALTEXC	1mm ²	FLRYW	X218B(5)

RL217-85 GLOW PLUG PWR					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	63-RL217GLOWRLY	0.75mm ²	FLRYW	X211(63)

S284					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-60-9	2.5mm ²	FLRYW	MS276(9)
1	BLK	0-60-9-1	1mm ²	FLRYW	X436A(10)
2	BLK	0-60-9-2	1mm ²	FLRYW	X213(60)

S214					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	75-S214SHLDRTN	0.75mm ²	FLRYW	X211(75)
2	SHLD	S214-1	0.75mm ²	SHLD	X213(1)
2	SHLD	S214-9	0.75mm ²	SHLD	X213(9)

X229 CAN TERMINATOR					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CNH(DEUTZ)	0.75mm ²	FLRYW	MS218(4)
B	GRN	CNL(DEUTZ)	0.75mm ²	FLRYW	MS218(1)
C					

X213 ENGINECONNECTION					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	SHLD	S214-1	0.75mm ²	SHLD	S214(2)
2	WHT	95-2STRTSIG	0.75mm ²	FLRYW	X211(95)
3	WHT	94-3STRTRTN	0.75mm ²	FLRYW	X211(94)
4					
5					
6	WHT	51-6DELTAVNTRI	0.75mm ²	FLRYW	X211(51)
7	WHT	8-7EGRTEMP	0.75mm ²	FLRYW	X211(8)
8					
9	SHLD	S214-9	0.75mm ²	SHLD	S214(2)
10					
11					
12					
13	BLK	99-13CAMENGSPD	0.75mm ²	FLRYW	X211(99)
14	WHT	100-14CAMENGSPD	0.75mm ²	FLRYW	X211(100)
15	WHT	102-15CRKENGSPD	0.75mm ²	FLRYW	X211(102)
16					
17	WHT	54-17FOLLOWPRS	0.75mm ²	FLRYW	X211(54)
18					
19	WHT	46-19MPROPRTN	1.5mm ²	FLRYW	X211(46)
20	WHT	25-20MPROP	1.5mm ²	FLRYW	X211(25)
21	BLK	101-21CRKENGSPD	0.75mm ²	FLRYW	X211(101)
22	WHT	21-22PRSRTN	0.75mm ²	FLRYW	X211(21)
23	WHT	73-23BSTPRSTEMP	0.75mm ²	FLRYW	X211(73)
24	WHT	13-24COOLTEMP	0.75mm ²	FLRYW	X211(13)
25	WHT	78-25RAILPRSFUL	0.75mm ²	FLRYW	X211(78)
26	WHT	72-26OILPRS	0.75mm ²	FLRYW	X211(72)
27	WHT	35-27TEMP/PRSRTN	0.75mm ²	FLRYW	X211(35)
28	WHT	74-28BSTPRSTEMP	0.75mm ²	FLRYW	X211(74)
29	WHT	11-29BSTPRSTEMP	0.75mm ²	FLRYW	X211(11)
30					
31	WHT	36-31RAILPRSFUL	0.75mm ²	FLRYW	X211(36)
32	WHT	17-32RAILPRSFUL	0.75mm ²	FLRYW	X211(17)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

33					
34					
35	WHT	64-35INJCTRRTN	1.5mm ²	FLRYW	X211(64)
36					
37	WHT	66-37INJCTRRTN	1.5mm ²	FLRYW	X211(66)
38	WHT	44-38INJCTR	1.5mm ²	FLRYW	X211(44)
39					
40	WHT	45-40INJCTR	1.5mm ²	FLRYW	X211(45)
41	WHT	24-41INJCTRRTN	1.5mm ²	FLRYW	X211(24)
42	WHT	87-42INJCTR	1.5mm ²	FLRYW	X211(87)
43					
44					
45					
46	WHT	55-46EGASRECSIG	0.75mm ²	FLRYW	X211(55)
47	WHT	2-47EXHGASREC	1.5mm ²	FLRYW	X211(2)
48	WHT	67-48EXHGASREC	1.5mm ²	FLRYW	X211(67)
49	WHT	38-49INTAKETHRTLE	0.75mm ²	FLRYW	X211(38)
50	WHT	18-50SV	0.75mm ²	FLRYW	X211(18)
51	WHT	76-51GNDRTN	0.75mm ²	FLRYW	X211(76)
52	WHT	7-52INTAKETHRTLE	0.75mm ²	FLRYW	X211(7)
53					
54					
55					
56					
57					
58					
59	YEL	2-100-3	1mm ²	FLRYW	FC248(A5)
60	BLK	0-60-9-2	1mm ²	FLRYW	S284(2)
61	WHT	23-61INJCTRRTN	1.5mm ²	FLRYW	X211(23)
62	WHT	85-62INJCTR	1.5mm ²	FLRYW	X211(85)

FC248 RLY/FUSEPANEL					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A1	RED	1-30	3mm ²	FLRYW	FC248(B9)
A10	BLK	0-60-7-1	0.75mm ²	FLRYW	S281(1)
A2	RED	1-31-1	3mm ²	FLRYW	S486(1)
A3	YEL	2-100-1	1mm ²	FLRYW	X436A(9)
A4	YEL	2-100-2	1mm ²	FLRYW	S268(2)
A5	YEL	2-100-3	1mm ²	FLRYW	X213(59)
A6					
A7					
A8					
A9					
AA1	RED	1-30-1	3mm ²	FLRYW	S485(1)

AA10	WHT	148-35-4STRTRREQ	0.75mm ²	FLRYW	S285(2)
AA2	RED	1-31	3mm ²	FLRYW	RL261(1)
AA3	YEL	2-100-1	1mm ²	FLRYW	S273(1)
AA4	YEL	2-100-2	1mm ²	FLRYW	S273(1)
AA5	YEL	2-100-3	1mm ²	FLRYW	S273(1)
AA6					
AA7					
AA8					
AA9					
B1	BLK	0-60-6	2.5mm ²	FLRYW	MS276(6)
B10	WHT	105-2CNTRLPWR	1.5mm ²	FLRYW	S265(2)
B2	WHT	101-2SUPMOD	0.75mm ²	FLRYW	X211(62)
B3	BLK	0-60-5	2.5mm ²	FLRYW	MS276(5)
B4	WHT	102-1STIONHTR	0.75mm ²	FLRYW	X211(80)
B5	BLK	0-60-4	2.5mm ²	FLRYW	MS276(4)
B6	WHT	103-2THRLEHTR	0.75mm ²	FLRYW	X211(37)
B7	BLK	0-60-3	2.5mm ²	FLRYW	MS276(3)
B8	WHT	104-1PRSHTR	0.75mm ²	FLRYW	X211(61)
B9	RED	1-30	3mm ²	FLRYW	FC248(A1)
C10					
C2					
C4					
C6					
C8					
D1	WHT	259-1RLYPWR	0.75mm ²	FLRYW	MS259(4)
D10	YEL	2-60	3mm ²	FLRYW	S271(2)
D2	WHT	101-1HTR1	0.75mm ²	FLRYW	X437A(3)
D3	WHT	259-2RLYPWR	0.75mm ²	FLRYW	MS259(3)
D4	WHT	102-2STIONHTR	2.5mm ²	FLRYW	X436A(7)
D5	WHT	259-3RLYPWR	0.75mm ²	FLRYW	MS259(2)
D6	WHT	103-1THRLEHTR	2.5mm ²	FLRYW	X436A(5)
D7	WHT	259-4RLYPWR	0.75mm ²	FLRYW	MS259(1)
D8	WHT	104-2PRSHTR	2.5mm ²	FLRYW	X436A(3)
D9	WHT	41-FC248RLYGND	0.75mm ²	FLRYW	X211(41)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X241 DEUTZ DIAGNOSTICS					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	2-99-3	0.75mm ²	FLRYW	S272(1)
B	BLK	0-60-7-3	0.75mm ²	FLRYW	S281(2)
C					
D					
E					
F	GRN	CNLCH2	0.75mm ²	FLRYW	MS567(5)
G	YEL	CNHCH2	0.75mm ²	FLRYW	X212(83)
H	GRN	CNLCH2	0.75mm ²	FLRYW	X212(82)
J					
K					
L					
M	YEL	CNHCH2	0.75mm ²	FLRYW	MS567(7)

S281					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-60-7	3mm ²	FLRYW	MS276(7)
1	BLK	0-60-7-1	0.75mm ²	FLRYW	FC248(A10)
2	BLK	0-60-7-2	2.5mm ²	FLRYW	X942A(4)
2	BLK	0-60-7-3	0.75mm ²	FLRYW	X241(B)

SN216 EXHT GAS TEMP					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	27-SN216EXHGASTEMP	0.75mm ²	FLRYW	X211(27)
2	WHT	9-SN216EXHGASTEMP	0.75mm ²	FLRYW	X211(9)

SN237 NOxSNSRSCRAT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CNH(DEUTZ)	0.75mm ²	FLRYW	MS218(8)
2	GRN	CNL(DEUTZ)	0.75mm ²	FLRYW	MS218(11)
3	BLK	0-60-6-1	1mm ²	FLRYW	S269(1)
4	YEL	2-100-2-1	1mm ²	FLRYW	S268(1)

SN215 SCR EXH GAS TEMP					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	48-SN215EXHTEMP	0.75mm ²	FLRYW	X211(48)
2	WHT	15-SN215EXHTEMP	0.75mm ²	FLRYW	X211(15)

SN283 DPF PRS					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	77-1DPFPRSPWR	0.75mm ²	FLRYW	X212(18)
2	WHT	77-2DPFPRSRTN	0.75mm ²	FLRYW	X212(31)
3	WHT	77-3DPFPRSSIG	0.75mm ²	FLRYW	X212(13)
4					

V254 DOSING VLV					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	26-X254DOSEVLV	0.75mm ²	FLRYW	X211(26)
2	WHT	47-X254DOSEVLV	0.75mm ²	FLRYW	X211(47)

SN236 NOx SNSR AFTR SCR CAT					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CNH(DEUTZ)	0.75mm ²	FLRYW	MS218(7)
2	GRN	CNL(DEUTZ)	0.75mm ²	FLRYW	MS218(2)
3	BLK	0-60-6-2	1mm ²	FLRYW	S269(1)
4	YEL	2-100-2-2	1mm ²	FLRYW	S268(1)

SN240 COOL LVL SNSR					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	72-1COOLLVLPWR	0.75mm ²	FLRYW	X212(57)
2	WHT	72-3COOLLVLGND	0.75mm ²	FLRYW	X212(81)
3	WHT	72-2COOLLVLSIG	0.75mm ²	FLRYW	X212(62)
4					

S268					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-100-2-1	1mm ²	FLRYW	SN237(4)
1	YEL	2-100-2-2	1mm ²	FLRYW	SN236(4)
2	YEL	2-100-2	1mm ²	FLRYW	FC248(A4)

S269					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-60-6-1	1mm ²	FLRYW	SN237(3)
1	BLK	0-60-6-2	1mm ²	FLRYW	SN236(3)
2	BLK	0-60-8	2.5mm ²	FLRYW	MS276(8)

SN239 AMBIENT AIR TEMP SNSR					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	73-2 ATEMP SNSR	0.75mm ²	FLRYW	X212(10)
2	WHT	73-1 ATEMP SNSR	0.75mm ²	FLRYW	X212(50)

Go to Discount-Equipment.com to order your parts

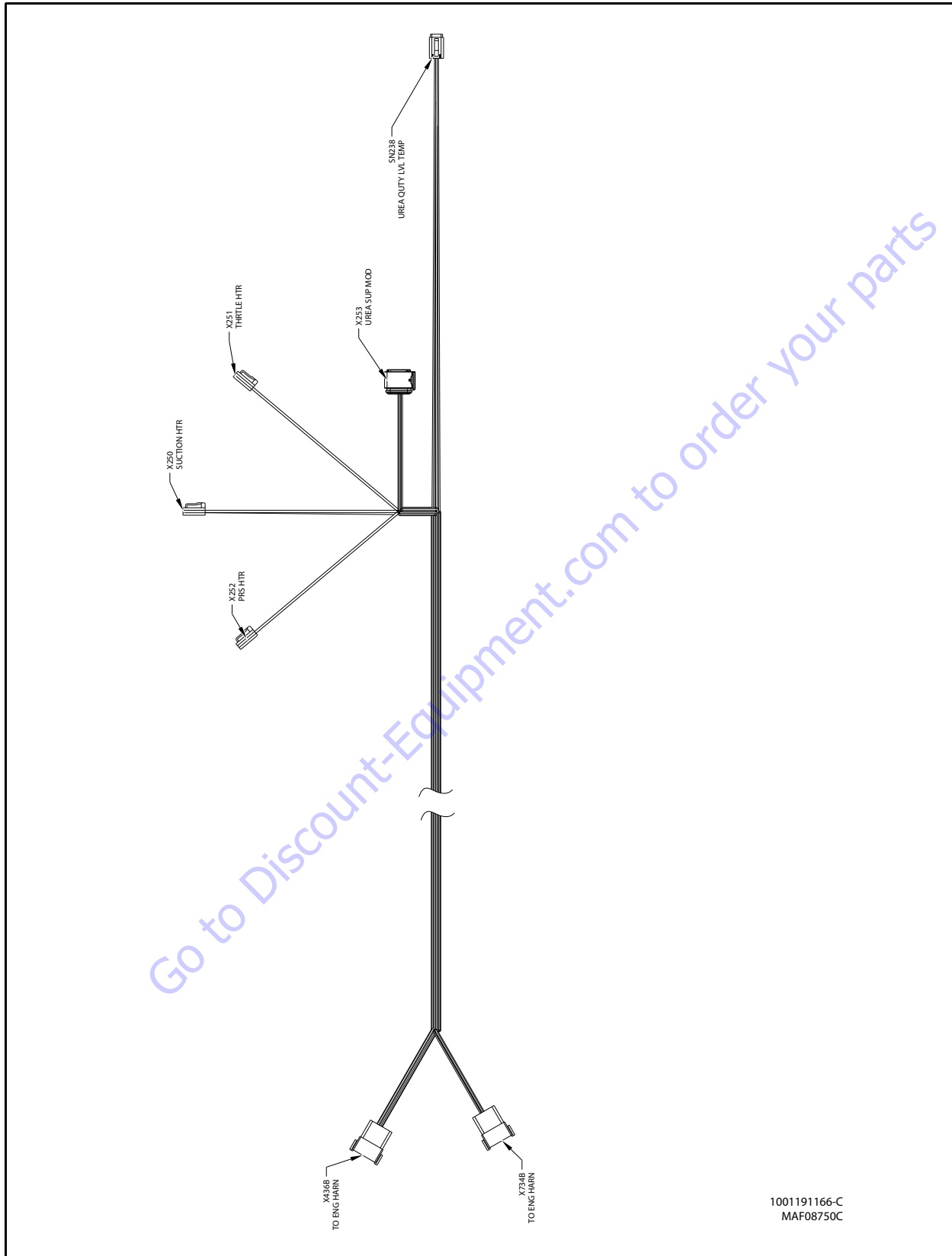


Figure 7-57. Urea Tank/Supply Module Harness

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X436B TO ENG HARN					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2					
3	WHT	104-2 PRS HTR	2.5 mm ²	FLRYW	X252 (2)
4	YEL	2-60-5	2.5 mm ²	FLRYW	X252 (1)
5	WHT	103-1 THRLE HTR	2.5 mm ²	FLRYW	X251 (2)
6	YEL	2-60-4	2.5 mm ²	FLRYW	X251 (1)
7	WHT	102-2 STION HTR	2.5 mm ²	FLRYW	X250 (2)
8	YEL	2-60-3	2.5 mm ²	FLRYW	X250 (1)
9	YEL	2-100-1	1 mm ²	FLRYW	SN238 (4)
10	BLK	0-60-9-1	1 mm ²	FLRYW	SN238 (3)
11	YEL	CN H (DEUTZ)	0.75 mm ²	FLRYW	SN238 (2)
12	GRN	CN L (DEUTZ)	0.75 mm ²	FLRYW	SN238 (1)

X253 UREA SUP MOD					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2	WHT	19-X253 UREA PRS	0.75 mm ²	FLRYW	X734B (5)
3	WHT	57-X253 UREA PRS	0.75 mm ²	FLRYW	X734B (6)
4	WHT	70-X253 UREA PRS	0.75 mm ²	FLRYW	X734B (7)
5	YEL	2-60-1	1.5 mm ²	FLRYW	X734B (8)
6	WHT	101-1 HTR1	0.75 mm ²	FLRYW	X734B (3)
7					
8	WHT	89-X253 UREA PUMP	0.75 mm ²	FLRYW	X734B (9)
9	WHT	105-1 CNTRL PWR	0.75 mm ²	FLRYW	X734B (1)
10	WHT	59-X253 UREA PUMP	0.75 mm ²	FLRYW	X734B (10)
11	WHT	5-X253 PURG VLV	0.75 mm ²	FLRYW	X734B (11)
12	WHT	82-X253 PURG VLV	0.75 mm ²	FLRYW	X734B (12)

X734B TO ENG HARN					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	105-1 CNTRL PWR	1.5 mm ²	FLRYW	X253 (9)
2					
3	WHT	101-1 HTR1	0.75 mm ²	FLRYW	X253 (6)
4					
5	WHT	19-X253 UREA PRS	0.75 mm ²	FLRYW	X253 (2)
6	WHT	57-X253 UREA PRS	0.75 mm ²	FLRYW	X253 (3)
7	WHT	70-X253 UREA PRS	0.75 mm ²	FLRYW	X253 (4)
8	YEL	2-60-1	0.75 mm ²	FLRYW	X253 (5)
9	WHT	89-X253 UREA PUMP	0.75 mm ²	FLRYW	X253 (8)
10	WHT	59-X253 UREA PUMP	0.75 mm ²	FLRYW	X253 (10)
11	WHT	5-X253 PURG VLV	0.75 mm ²	FLRYW	X253 (11)
12	WHT	82-X253 PURG VLV	0.75 mm ²	FLRYW	X253 (12)

X250 SUCTION HTR					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-60-3	2.5 mm ²	FLRYW	X436B (8)
2	WHT	102-2 STION HTR	2.5 mm ²	FLRYW	X436B (8)

X251 THRLE HTR					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-60-4	2.5 mm ²	FLRYW	X436B (6)
2	WHT	103-1 THRLE HTR	2.5 mm ²	FLRYW	X436B (5)

SN238 UREA QUTY LVL TEMP					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	GRN	CN L (DEUTZ)	0.75 mm ²	FLRYW	X436B (12)
2	YEL	CN H (DEUTZ)	0.75 mm ²	FLRYW	X436B (11)
3	BLK	0-60-9-1	1 mm ²	FLRYW	X436B (10)
4	YEL	2-100-1	1 mm ²	FLRYW	X436B (9)

X252 PRS HTR					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-60-5	2.5 mm ²	FLRYW	X436B (4)
2	WHT	104-2 PRS HTR	2.5 mm ²	FLRYW	X436B (3)

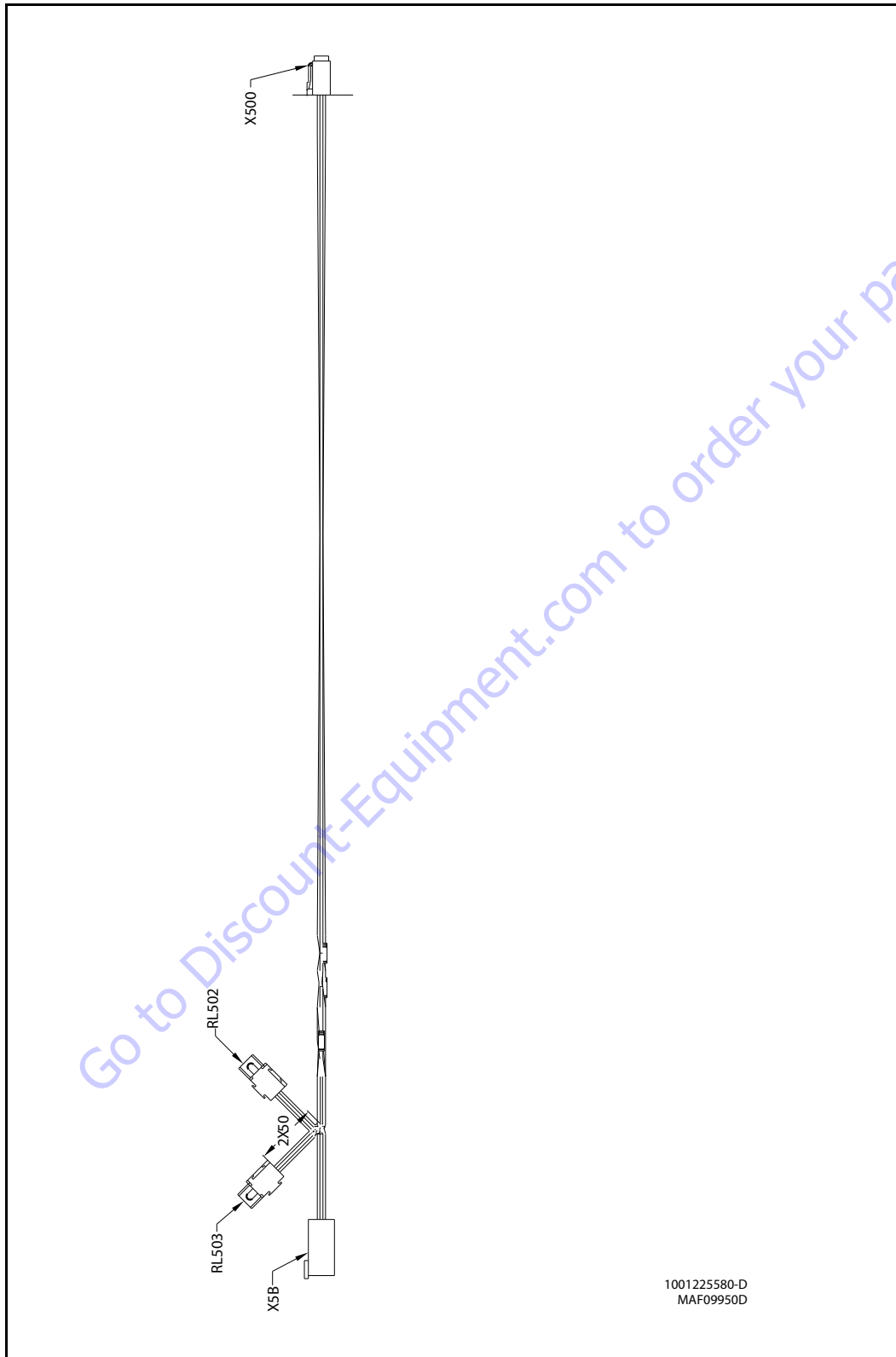


Figure 7-58. Platform Interface Harness

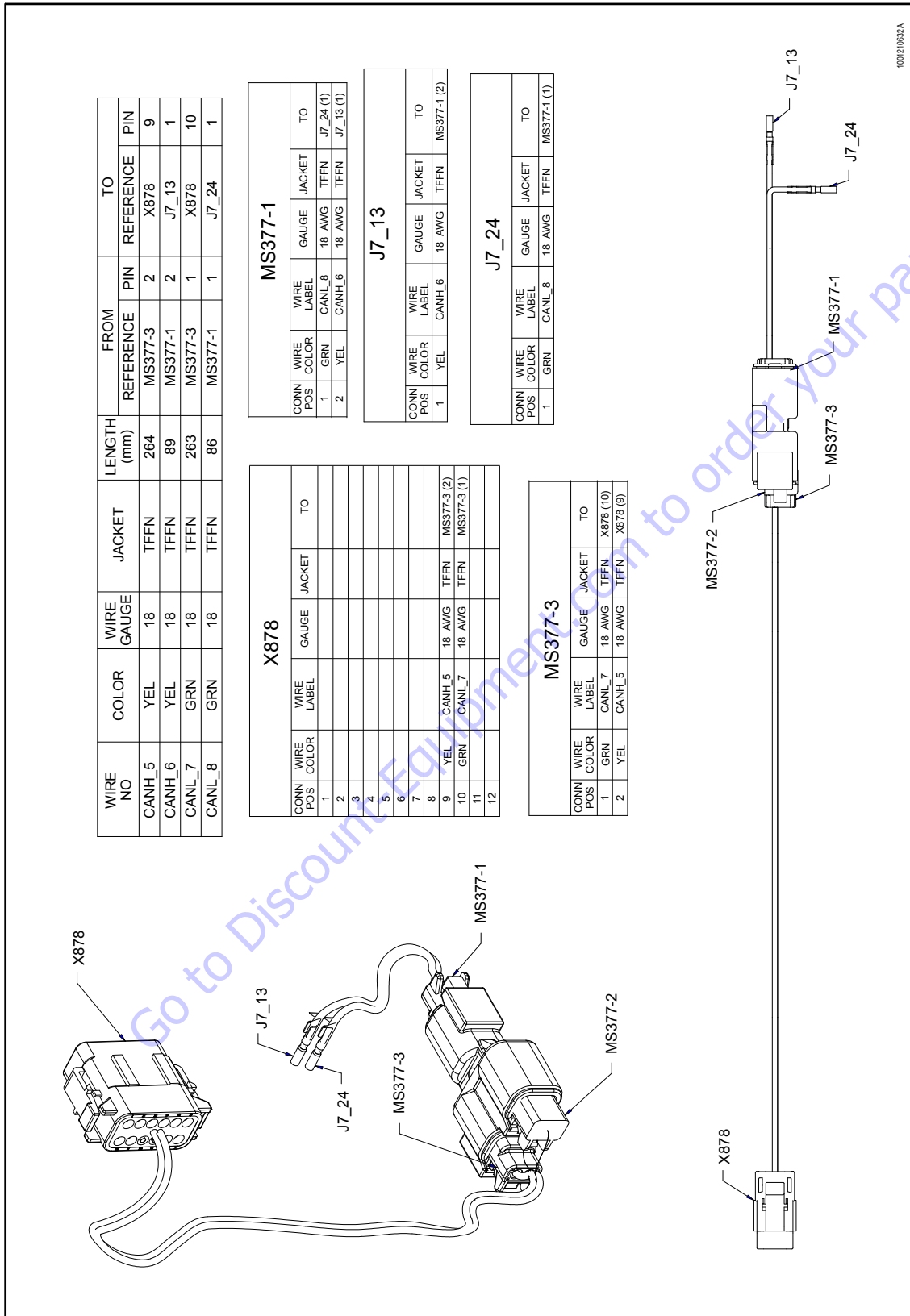
SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

X5B - INTERFACE					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	P2	18 AWG	GXL	IP114 (1)
2	WHT	P6	18 AWG	GXL	X500 (2)
3					
4	WHT	P1	18 AWG	GXL	RL503(87)
5	WHT	P3	18 AWG	GXL	RL502 (87)
6					

RL503 - SKYGUARD RELAY #1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
30	WHT	P9-1	18 AWG	GXL	IP114 (1)
85	WHT	P5-1	18 AWG	GXL	S191 (1)
86	WHT	P4-1	18 AWG	GXL	S192 (1)
87	WHT	P1	18 AWG	GXL	X5B(4)
87A					

RL502 - SKYGUARD RELAY #2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
30	WHT	P9-2	18 AWG	GXL	IP114 (1)
85	WHT	P5-2	18 AWG	GXL	S191 (1)
86	WHT	P4-2	18 AWG	GXL	S192 (1)
87	WHT	P3	18 AWG	GXL	X5B (5)
87a					

X500 - PLAT SENSOR					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	P10	18 AWG	GXL	IP114 (2)
2	WHT	P6	18 AWG	GXL	X5B (2)
3	WHT	P4	18 AWG	GXL	S192 (2)
4	WHT	P5	18 AWG	GXL	S191 (2)

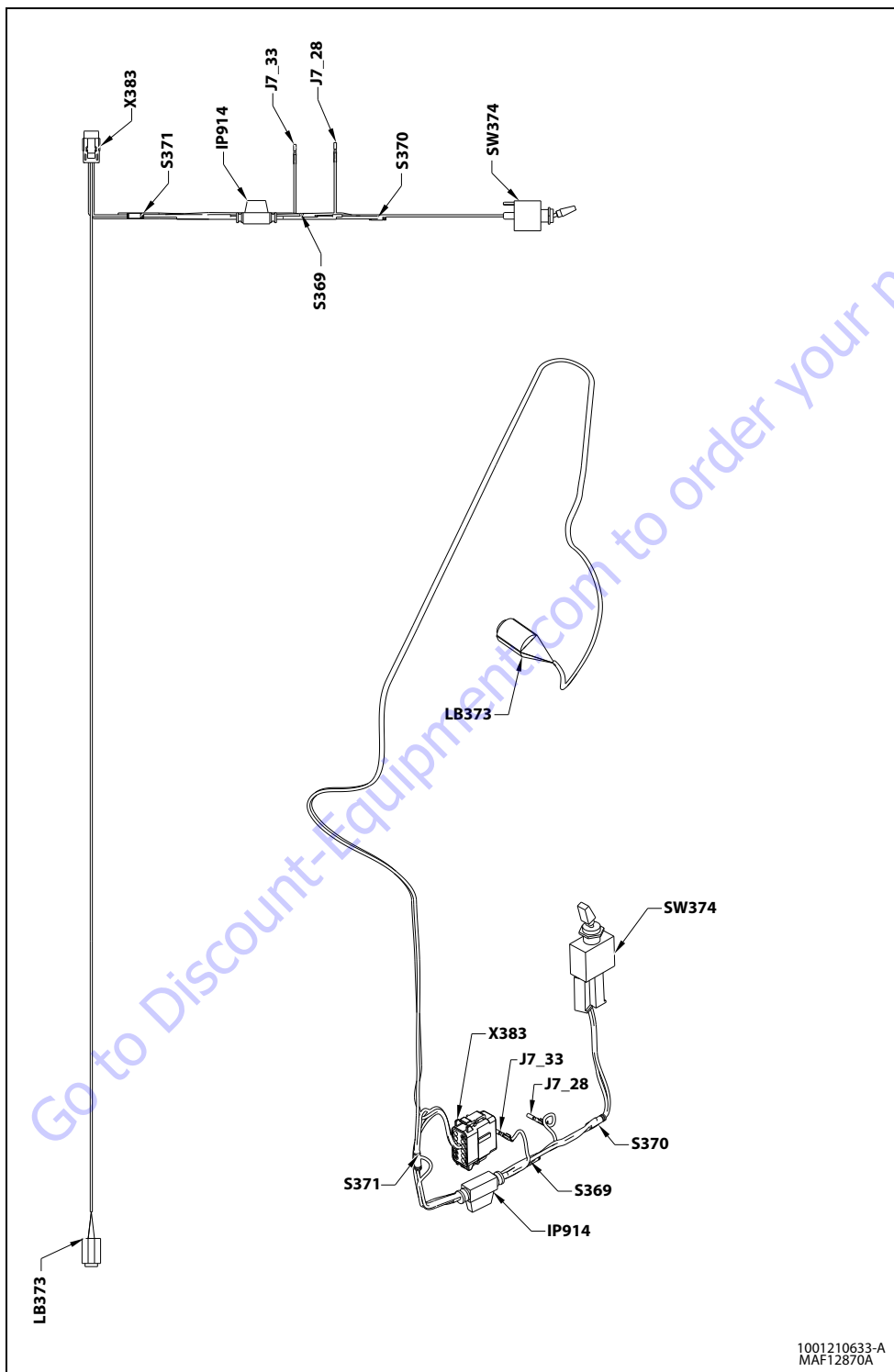


100710632A

Figure 7-59. Cribbing Module Harness - Sheet 1 of 2

Go to Discount-Equipment.com to order your parts

This page left blank intentionally



1001210633-A
MAF12870A

Figure 7-60. Cribbing Harness - Sheet 2 of 2

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

LB373					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK/ORN	114	18 AWG	TFFN	X383 (7)
2	BLK	113	18 AWG	TFFN	S369 (2)

J7_28					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	117	18 AWG	TFFN	S369 (1)

J7_33					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	118	18 AWG	TFFN	S371 (1)

S369					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	117	18 AWG	TFFN	J7_28 (1)
2	BLK	102	18 AWG	TFFN	X383 (2)
3	BLK	113	18 AWG	TFFN	LB373 (2)

S370					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	103	18 AWG	TFFN	X383(1)
2	BLK	119_1	14 AWG	TFFN	IP914 (1)

S371					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	118	18 AWG	TFFN	J7_33 (1)
2	BLK	119_2	14 AWG	TFFN	IP914 (2)

IP914					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	119_1	14 AWG	TFFN	S370 (1)
2	BLK	119_2	14 AWG	TFFN	S371 (2)

SW374					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	115	18 AWG	TFFN	S370 (2)
2	RED/ORN	116	18 AWG	TFFN	X383 (3)

X383					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	103	18 AWG	TFFN	S370 (1)
2	BLK	102	18 AWG	TFFN	S369 (2)
3	RED/ORN	116	18 AWG	TFFN	SW374 (2)
4					
5					
6					
7	BLK/ORN	114	18 AWG	TFFN	LB373 (1)
8					
9					
10					
11					
12					

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

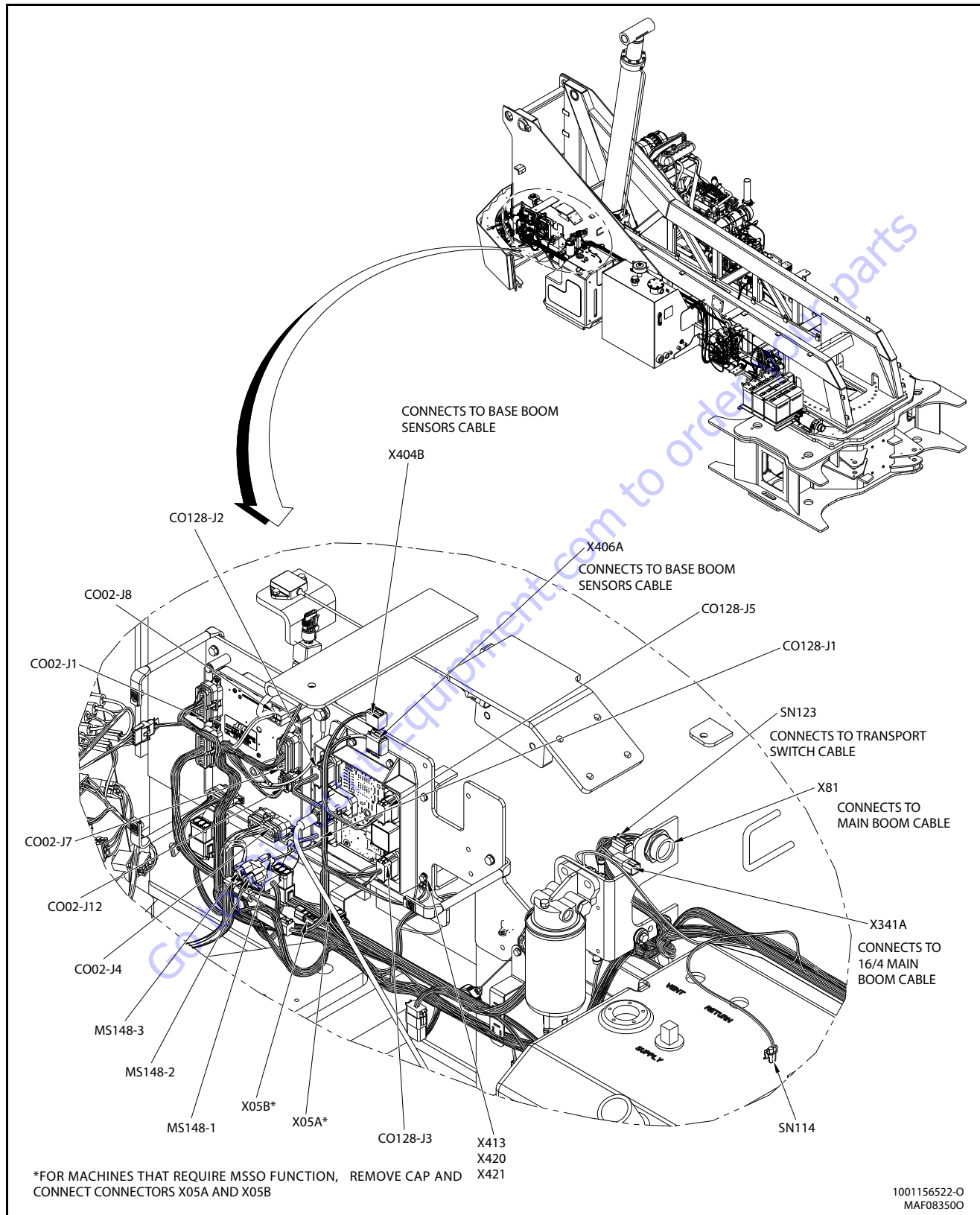


Figure 7-61. Electrical Installation - Sheet 1 of 10

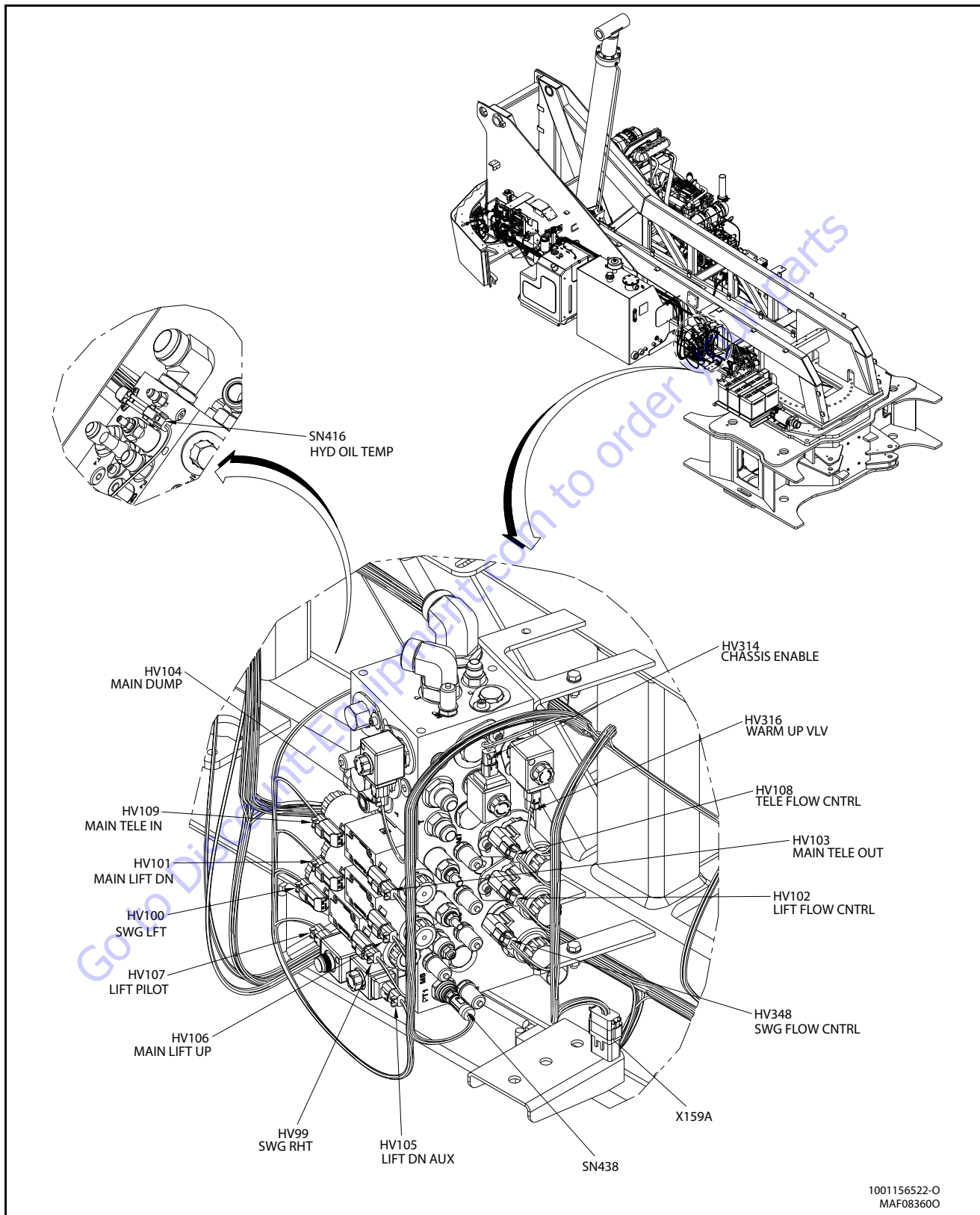


Figure 7-62. Electrical Installation - Sheet 2 of 10

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

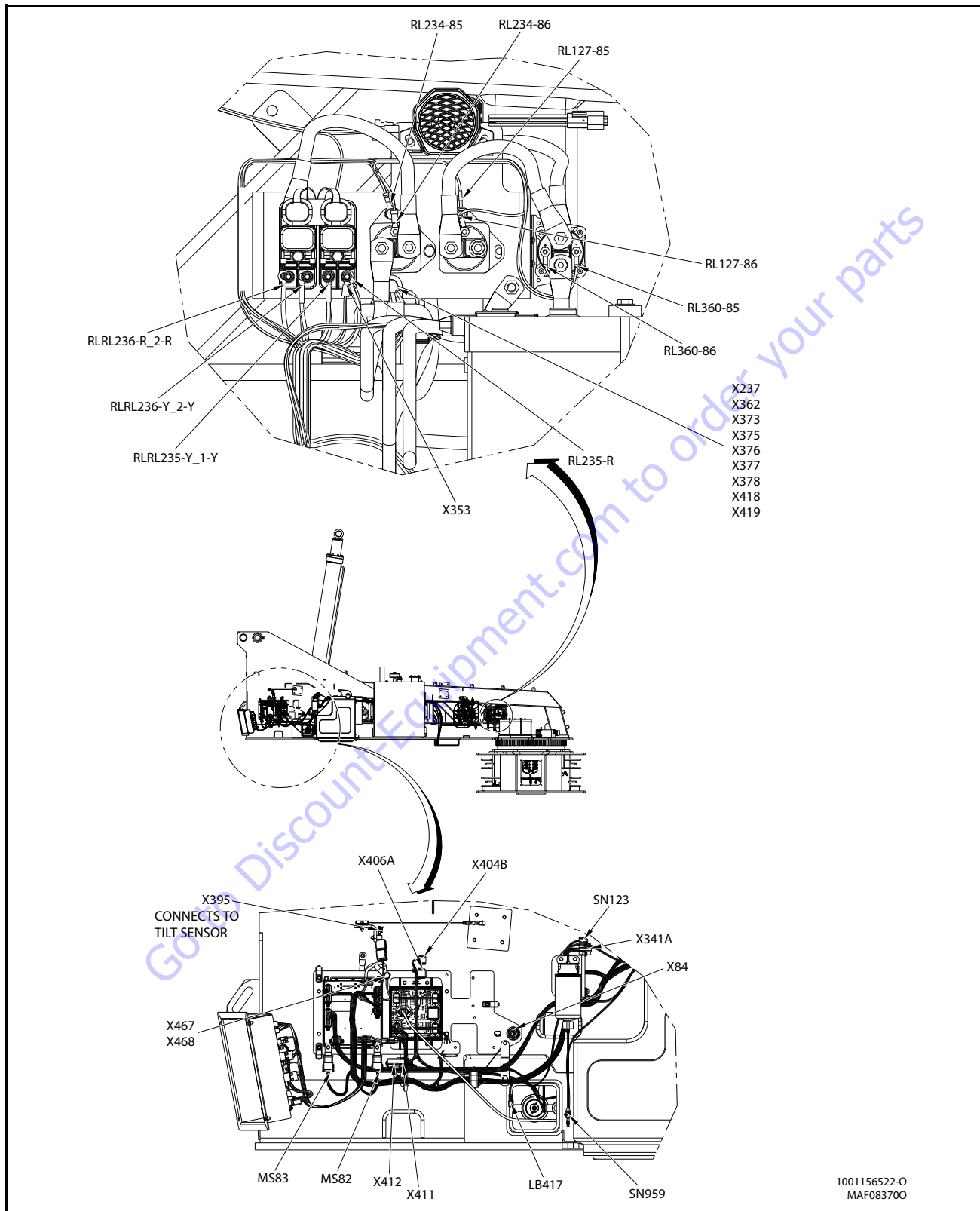


Figure 7-63. Electrical Installation - Sheet 3 of 10

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

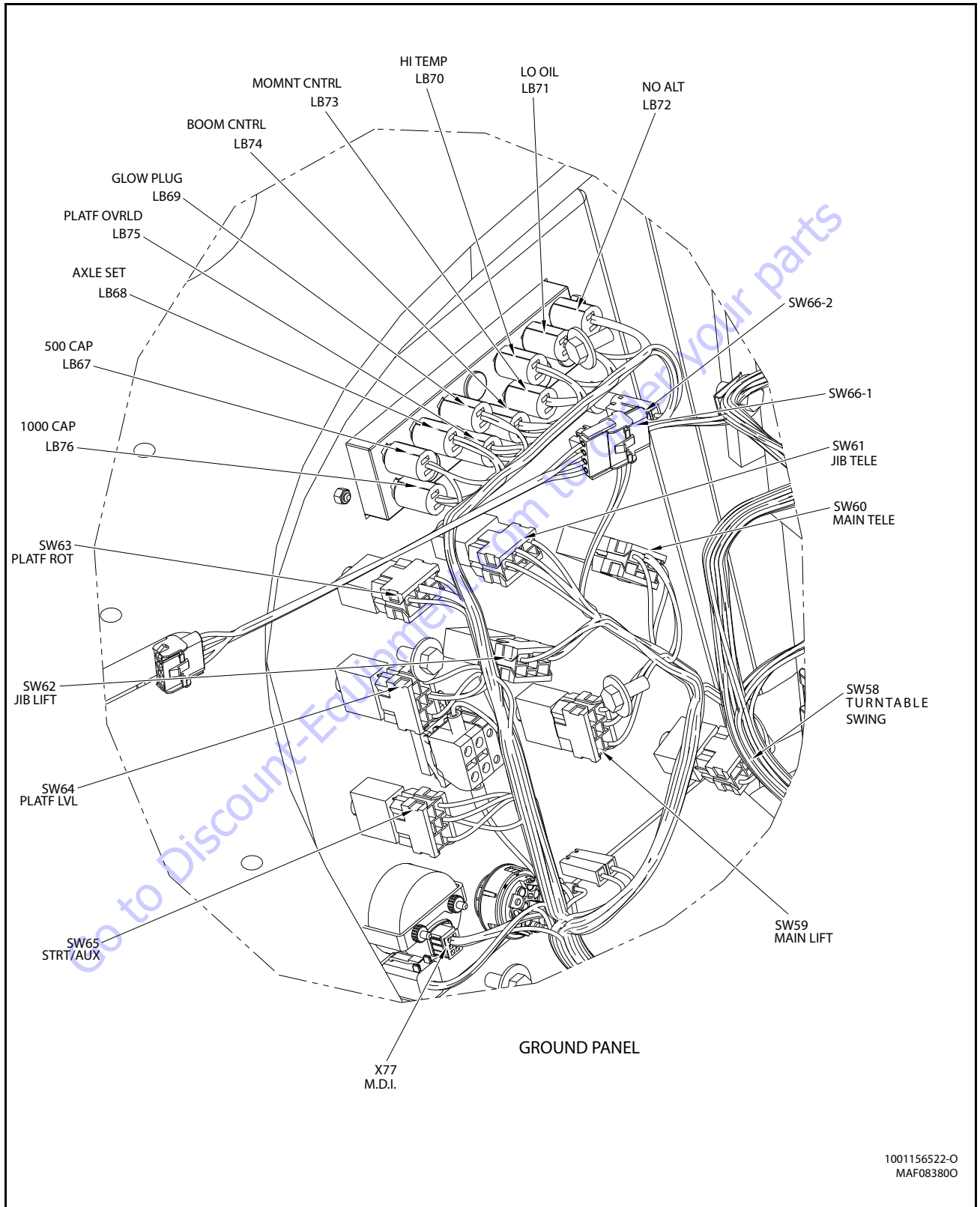


Figure 7-64. Electrical Installation - Sheet 4 of 10

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

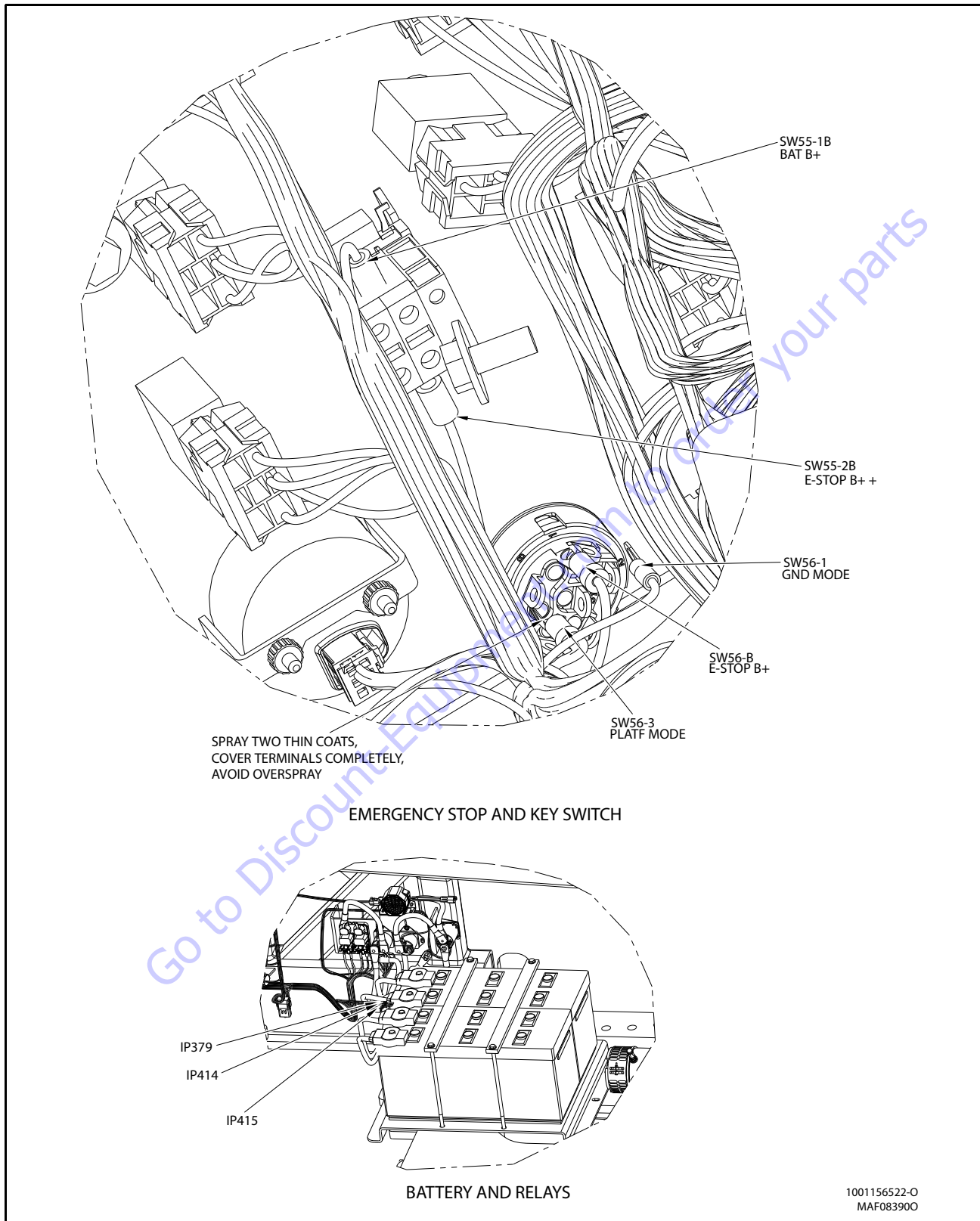


Figure 7-65. Electrical Installation - Sheet 5 of 10

1001156522-O
MAF083900

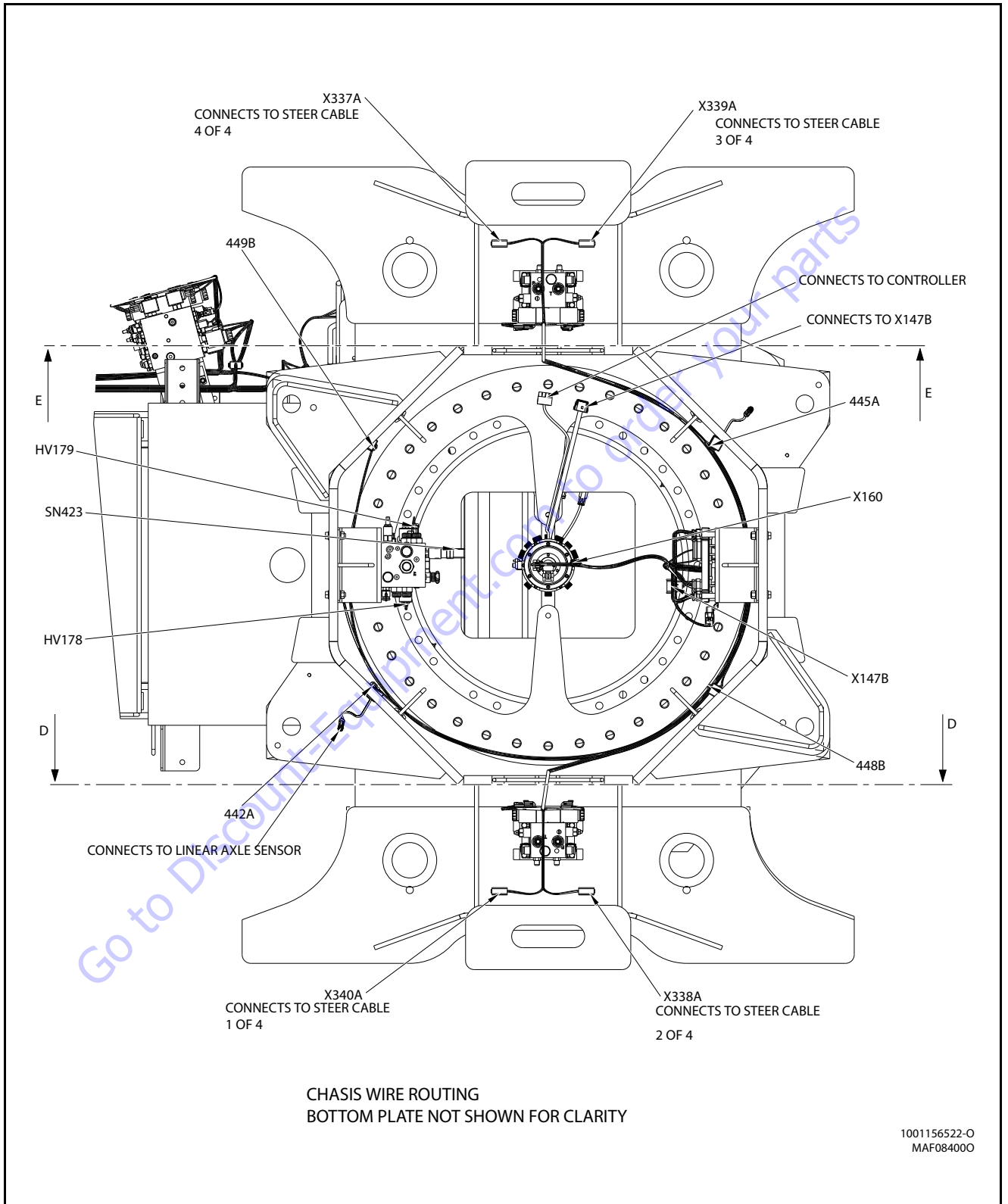


Figure 7-66. Electrical Installation - Sheet 6 of 10

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

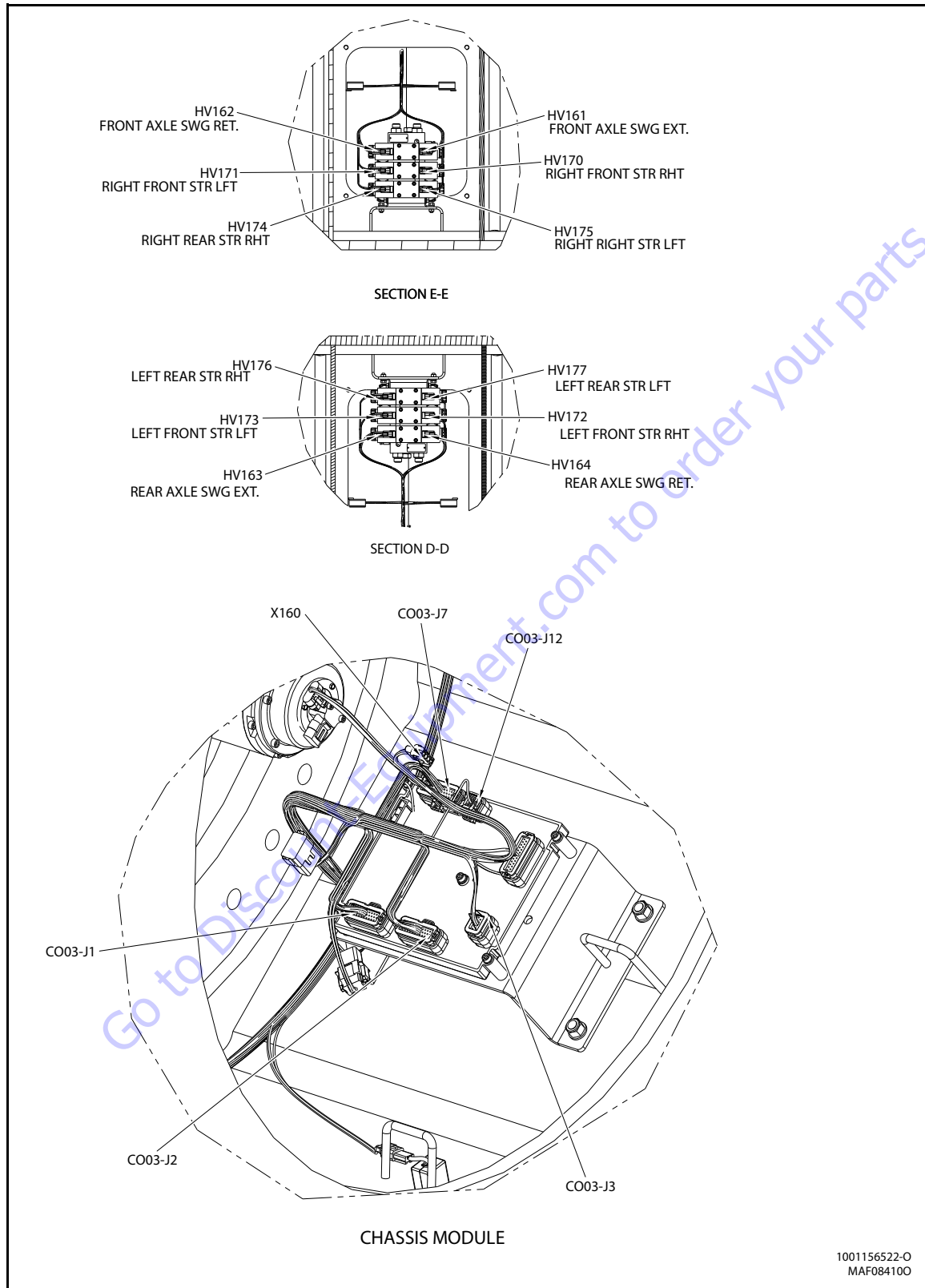


Figure 7-67. Electrical Installation - Sheet 7 of 10

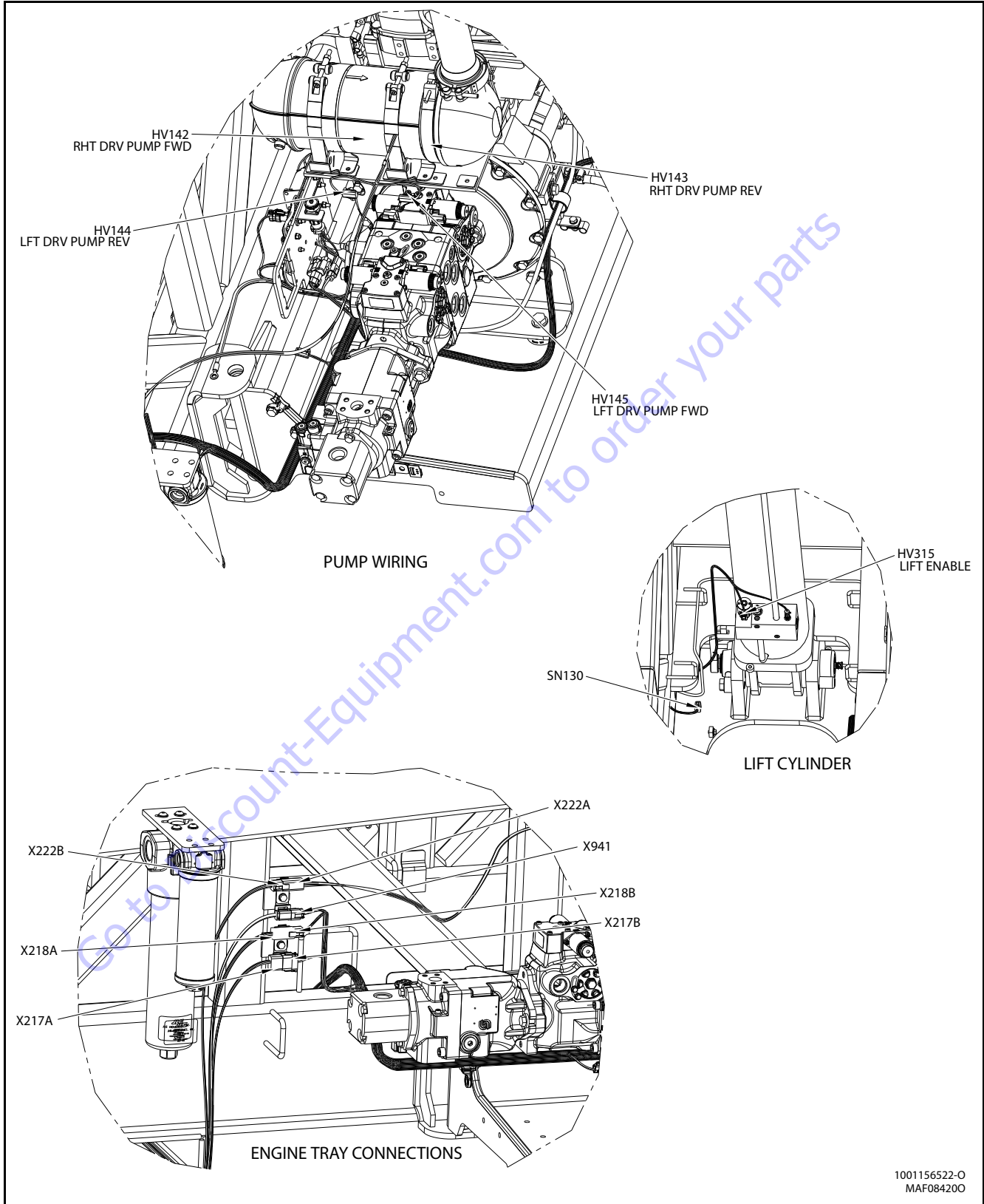


Figure 7-68. Electrical Installation - Sheet 8 of 10

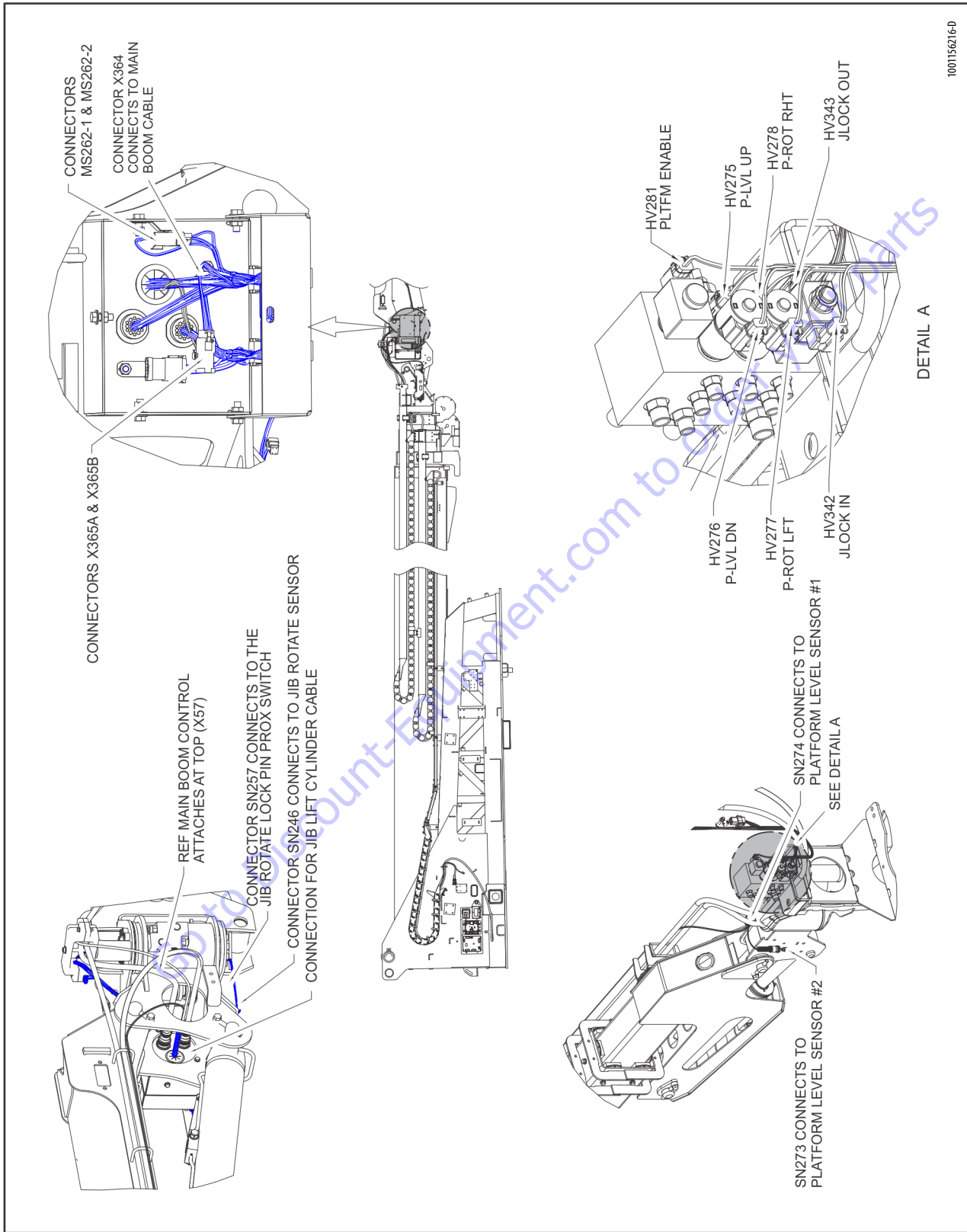


Figure 7-69. Electrical Installation - Sheet 9 of 10

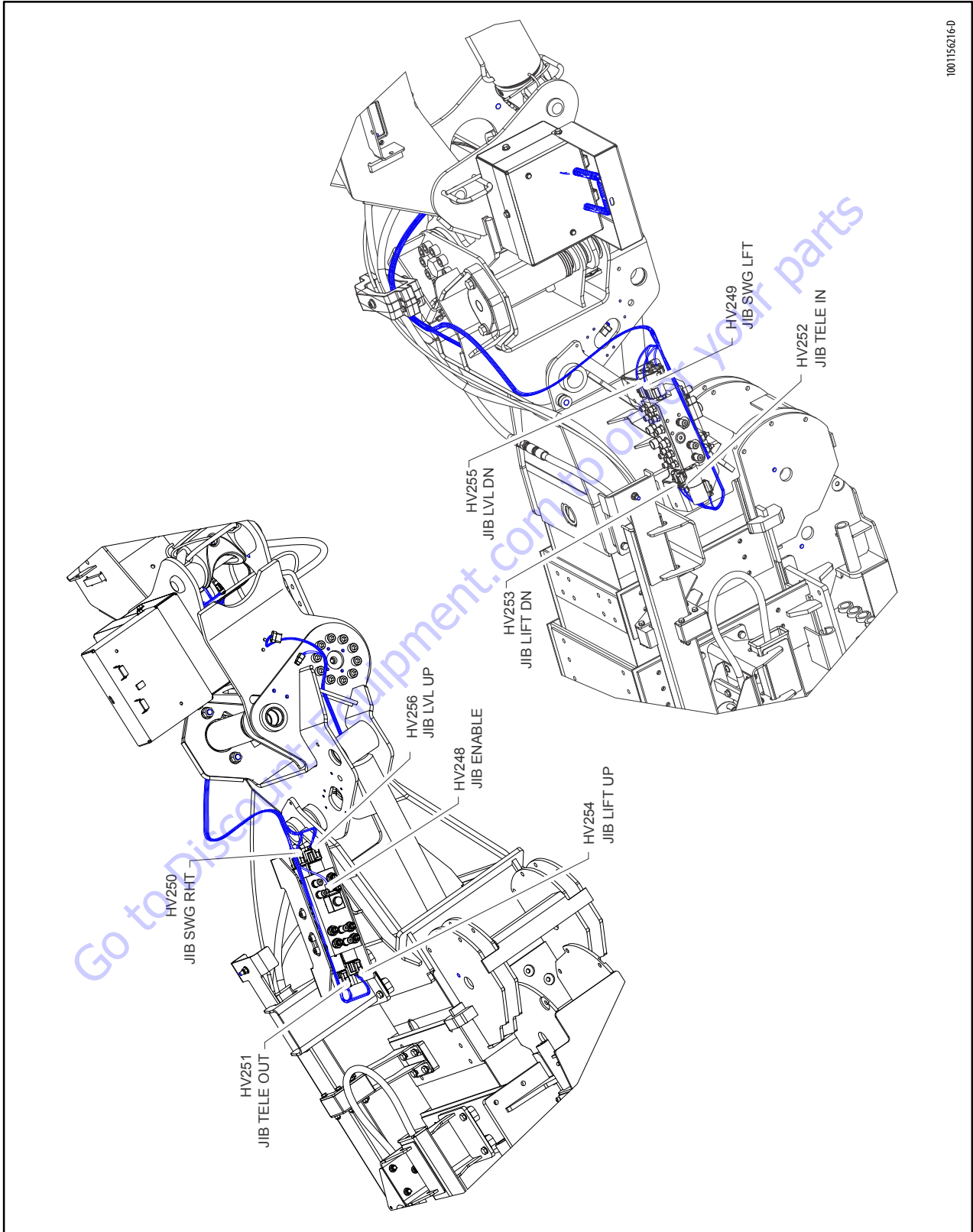
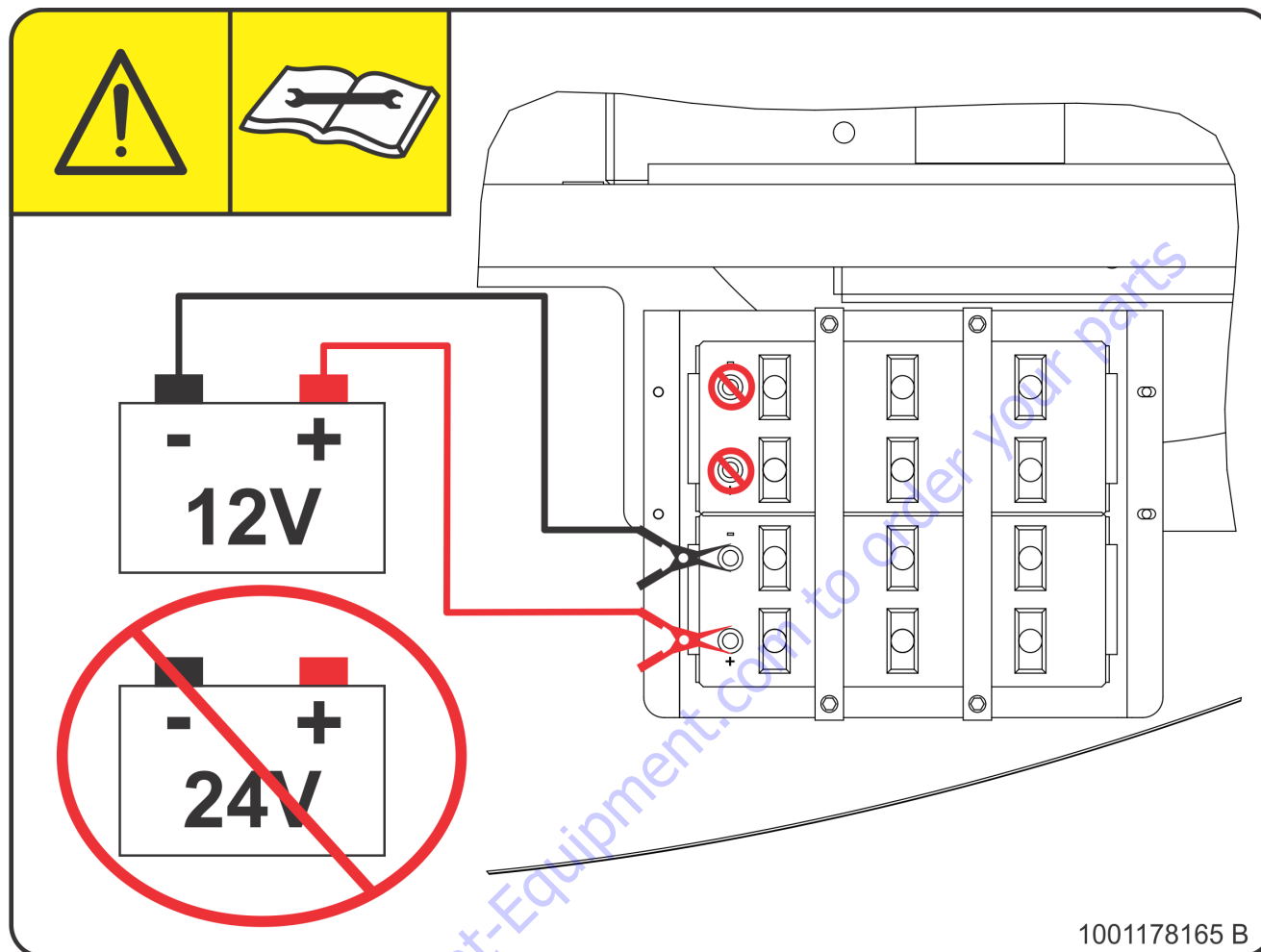


Figure 7-70. Electrical Installation - Sheet 10 of 10



⚠ CAUTION

THIS MACHINE UTILIZES A 12-VOLT ELECTRICAL SYSTEM. TO PREVENT DAMAGE WHEN JUMP-STARTING THE MACHINE, CONNECT THE JUMP-START EQUIPMENT ONLY TO THE BATTERY SHOWN TO PREVENT DAMAGE TO THE MACHINE'S ELECTRICAL SYSTEM.

Figure 7-71. Battery Jump-Start Hookup

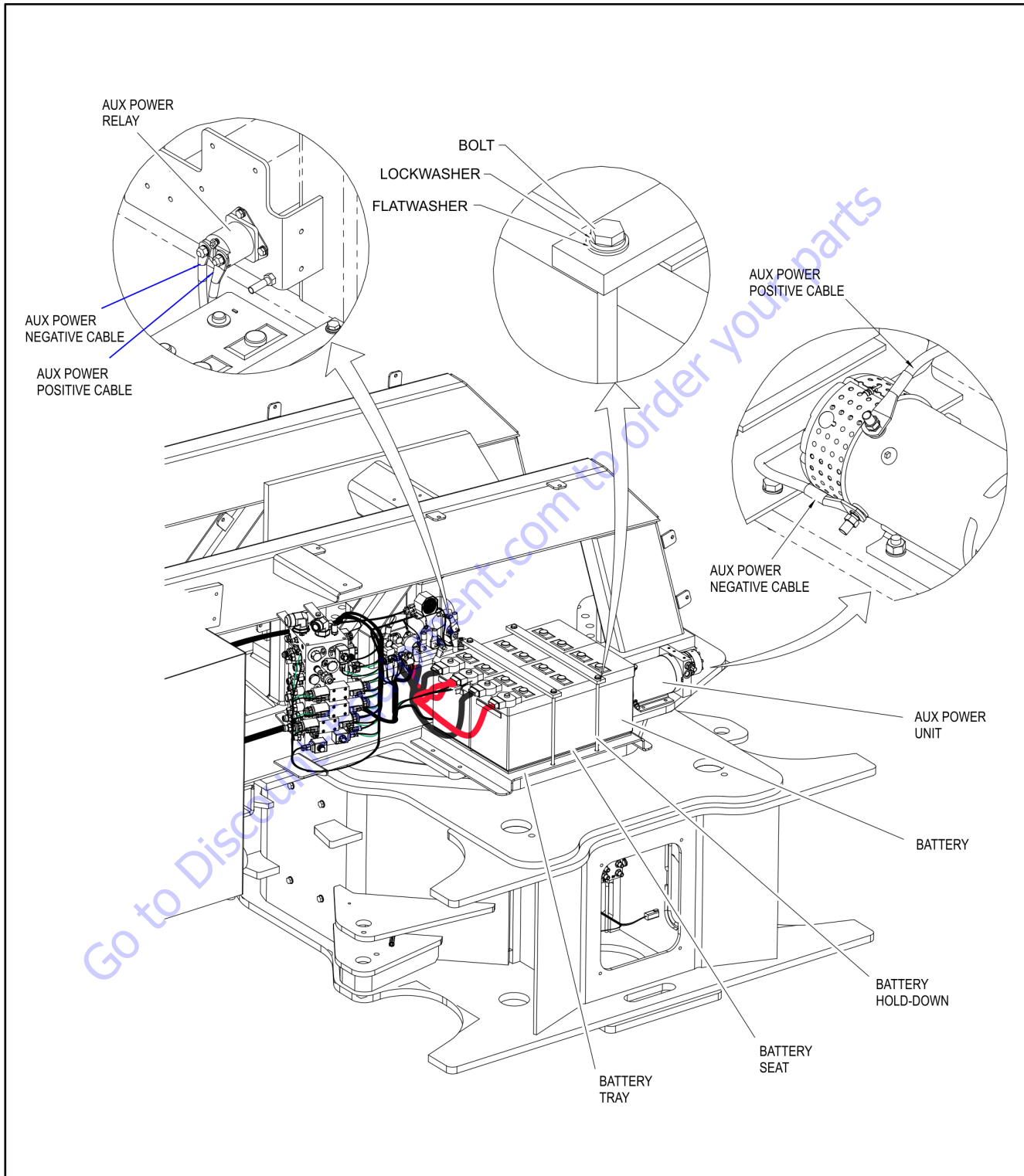


Figure 7-72. Battery Installation - Sheet 1 of 2

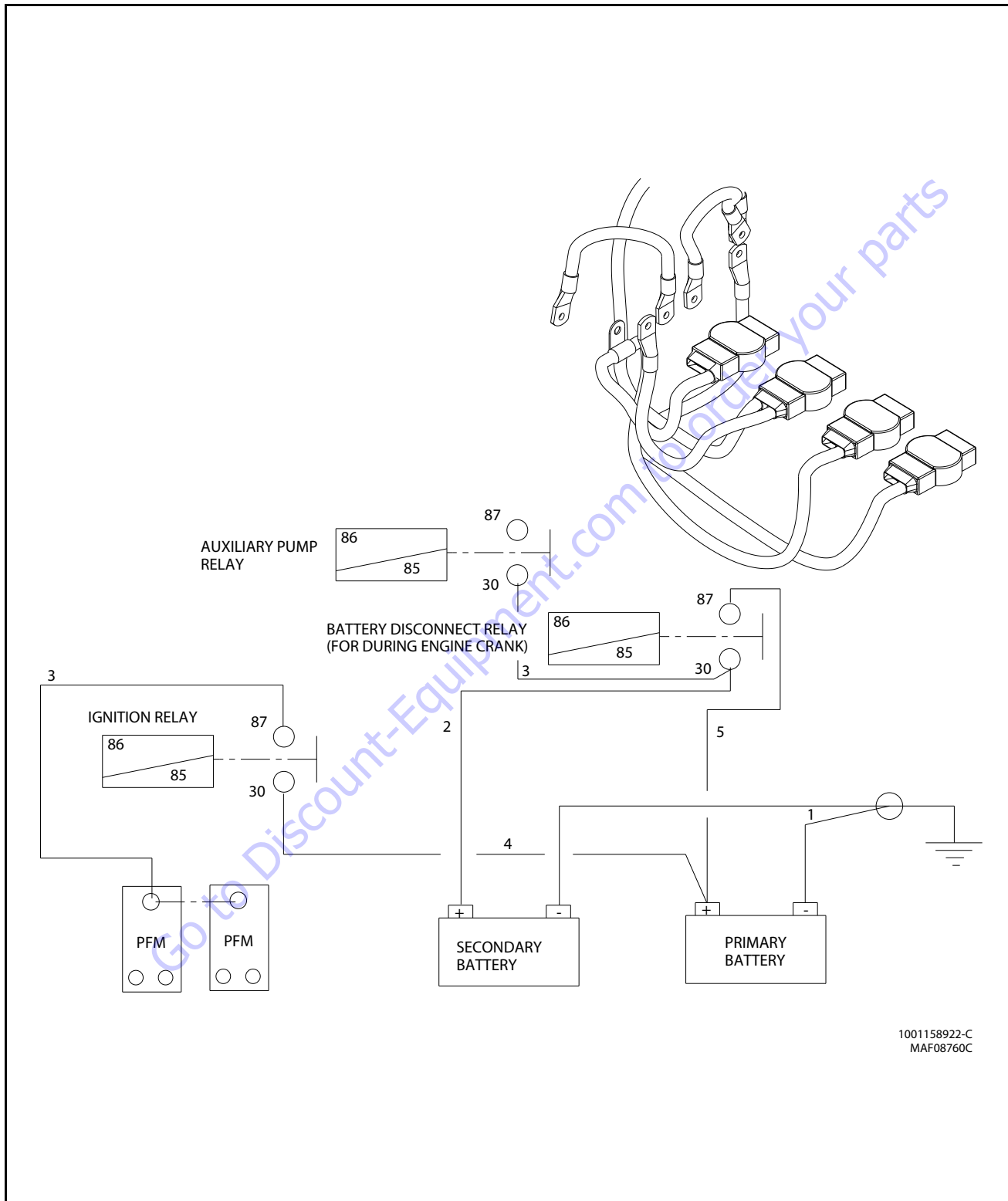


Figure 7-73. Battery Installation - Sheet 2 of 2

1850SJ ELECTRICAL SCHEMATIC

SHEET 2: PLATFORM BOX

HARNESS, CONTROL BOX
ELECTRICAL ASSEMBLY, CONSOLE BOX

SHEET 3: PLATFORM AND JIB COMPONENTS

HARNESS, PLATFORM VALVE
HARNESS, JIB VALVE

SHEET 4: TURNTABLE AND BOOM

HARNESS, BLAM
CABLE, LOAD SENSING PIN
CABLE, BASE BOOM SENSOR
HARNESS, BASE BOOM
HARNESS, BECON/STROBE
HARNESS, FUEL PUMP & WIF
CABLE, TURNTABLE BATTERY KIT
CABLE, AUX POWER POSITIVE
CABLE, AUX POWER NEGATIVE
ELECTRICAL INSTALL

SHEET 5: GROUND CONTROLS (UGM)

HARNESS, TURNTABLE
HARNESS, GROUND CONTROL PANEL

SHEET 6: CHASSIS

HARNESS, CHASSIS
CABLE, STEER
CABLE, M12 MTS CONNECTION

SHEET 7: HYDRAULIC VALVES

HARNESS, HYDRAULIC VALVE BANK
HARNESS, DRIVE PUMP

SHEET 8: ENGINE

HARNESS, ENGINE T4i
HARNESS, CAN ENGINE
CABLE, ALTERNATOR POWER
CABLE, POSITIVE BATTERY
CABLE, NEGATIVE BATTERY
WIRE, GLOW FUSE
CABLE, GLOW PLUG

SHEET 9: OPTIONS

HARNESS, GENERATOR ENABLE
HARNESS, HEAD AND TAIL LIGHTS

SHEET 10: ENGINE TIER 4 FINAL

HARNESS, ENGINE T4F BOOM
CABLE, TURNTABLE BATTERY KIT
CABLE, POSITIVE BAT TO ENGINE
CABLE, GLOW PLUG (100A FUSED)
CABLE, ALTERNATOR 150 AMP

SHEET 11: UREA TANK/ SUPPLY MODULE CRIBBING OPTION ALERT BEACON OPTION

HARNESS, UREA TANK
HARNESS, CRIBBING

Figure 7-74. Electrical Schematic (SN 0300224828 through SN 0300243454) - Sheet 1 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

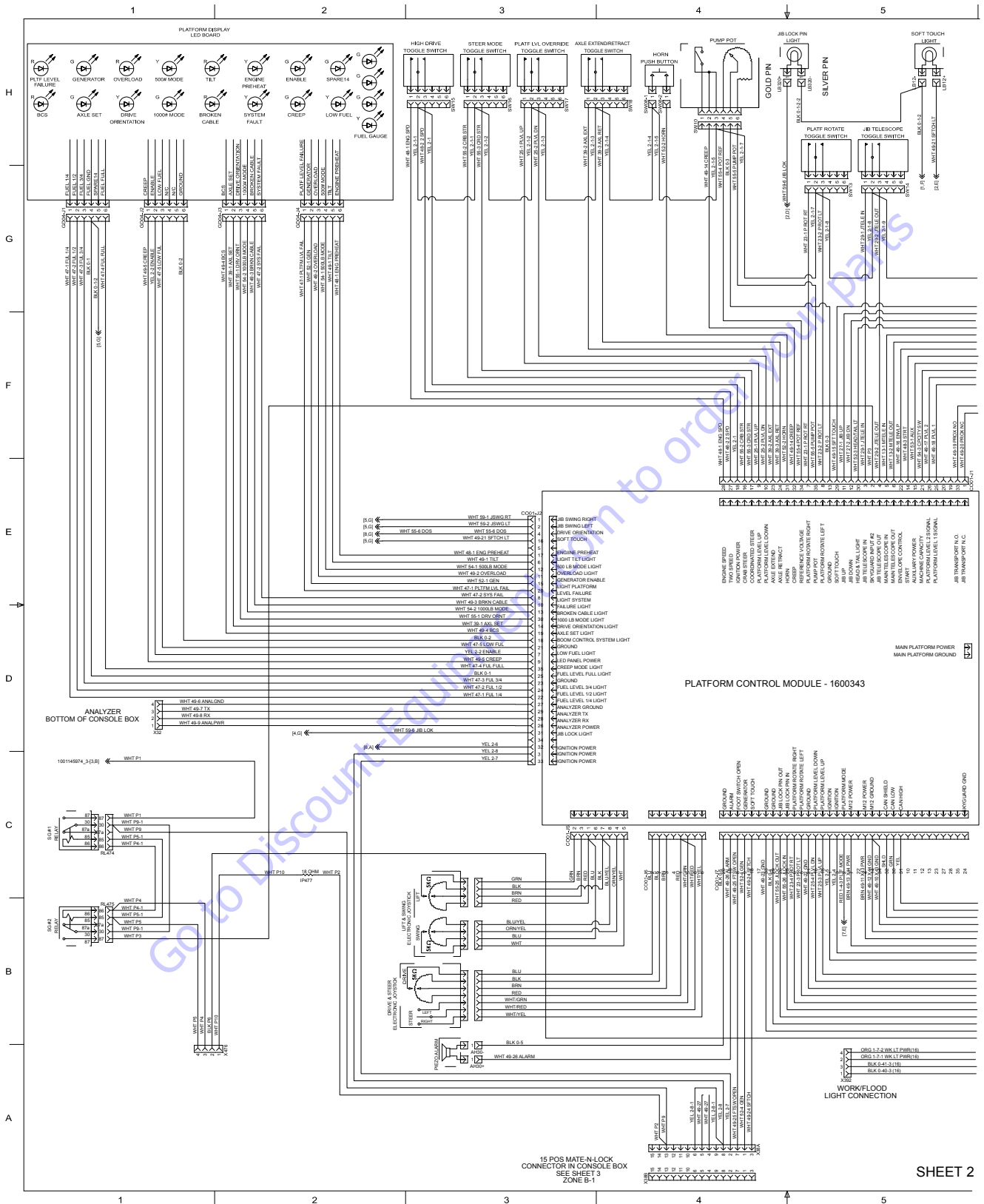


Figure 7-75. Electrical Schematic (SN 0300224828 through SN 0300243454) - Sheet 2 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

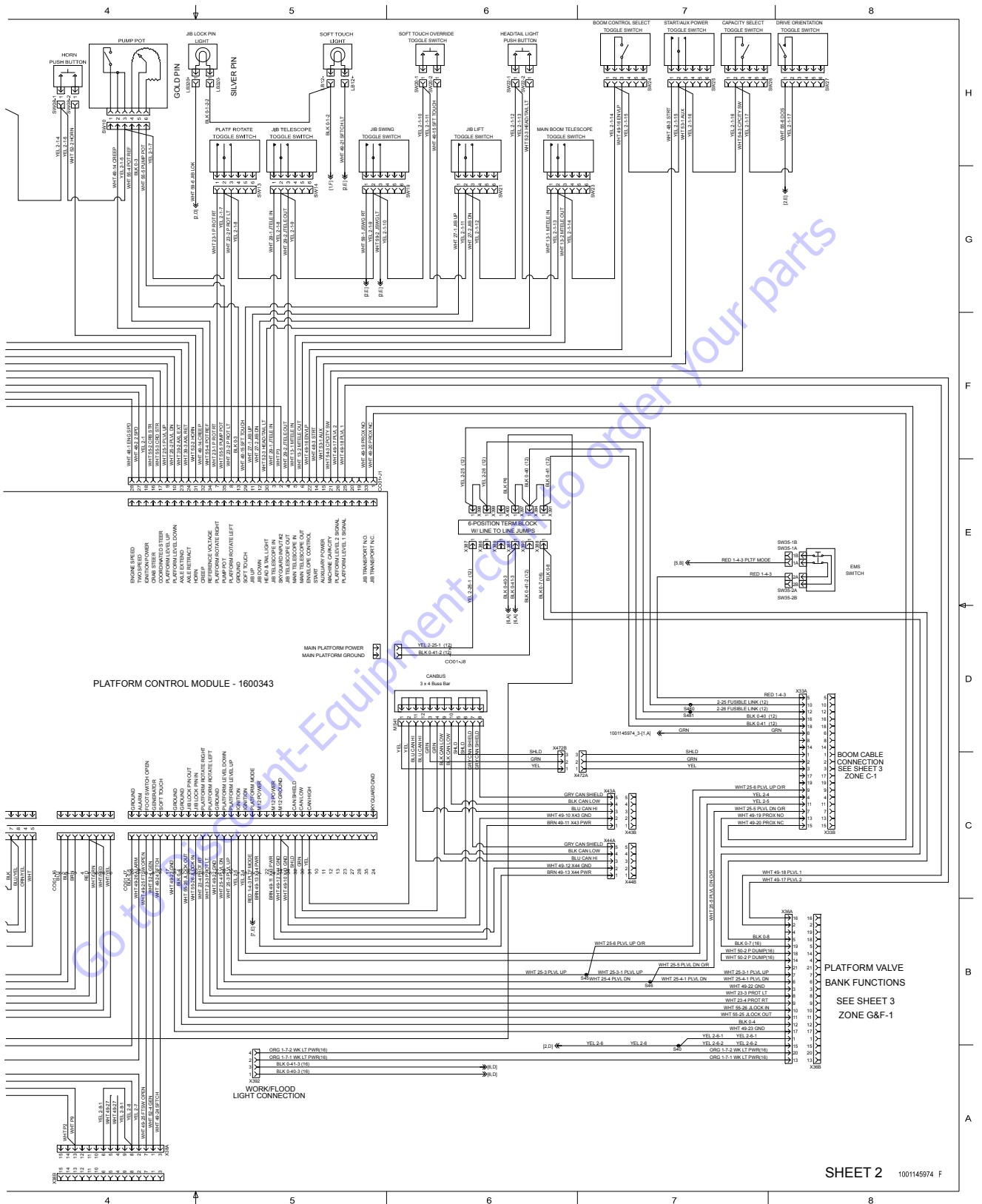


Figure 7-76. Electrical Schematic (SN 0300224828 through SN 0300243454) - Sheet 3 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

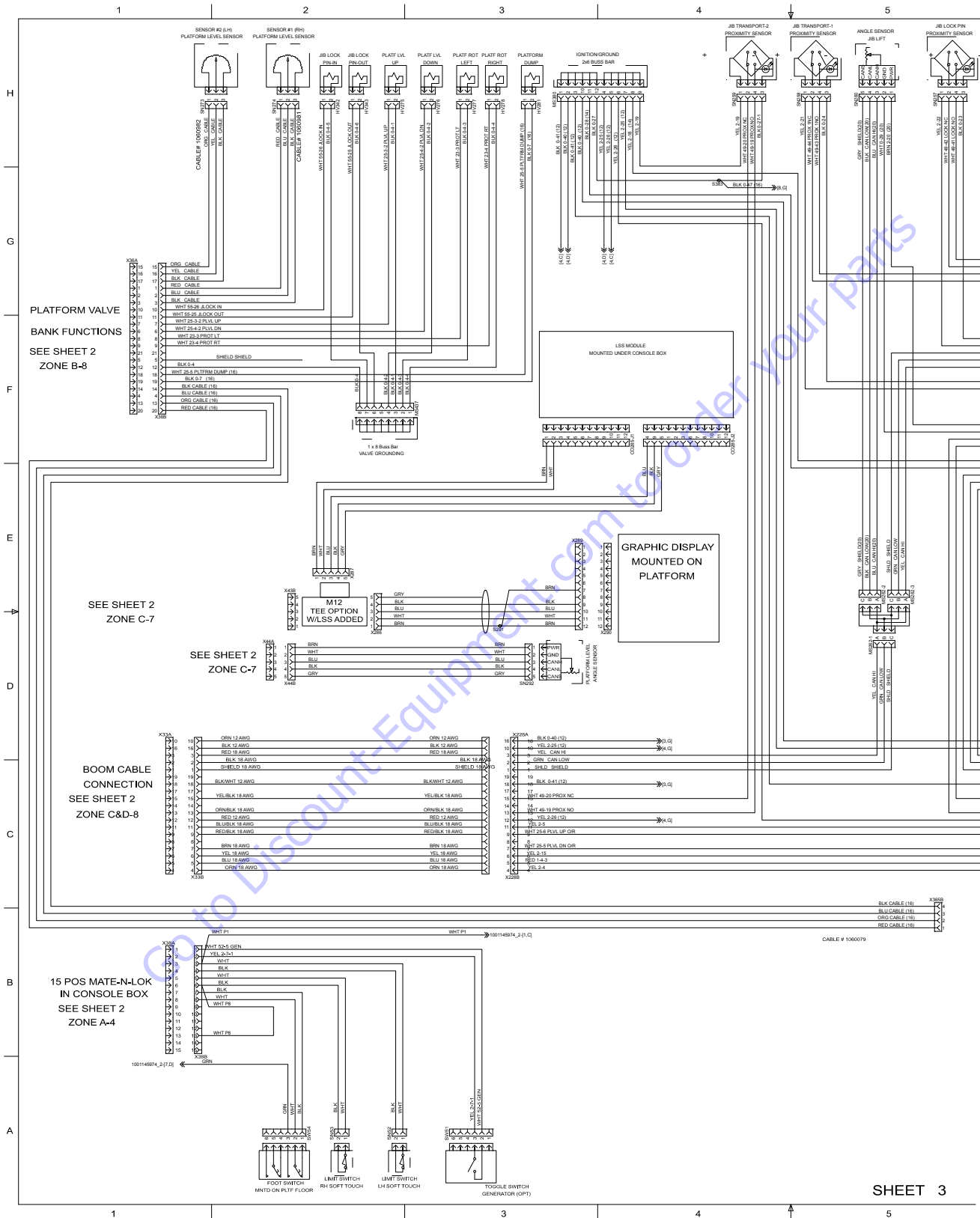
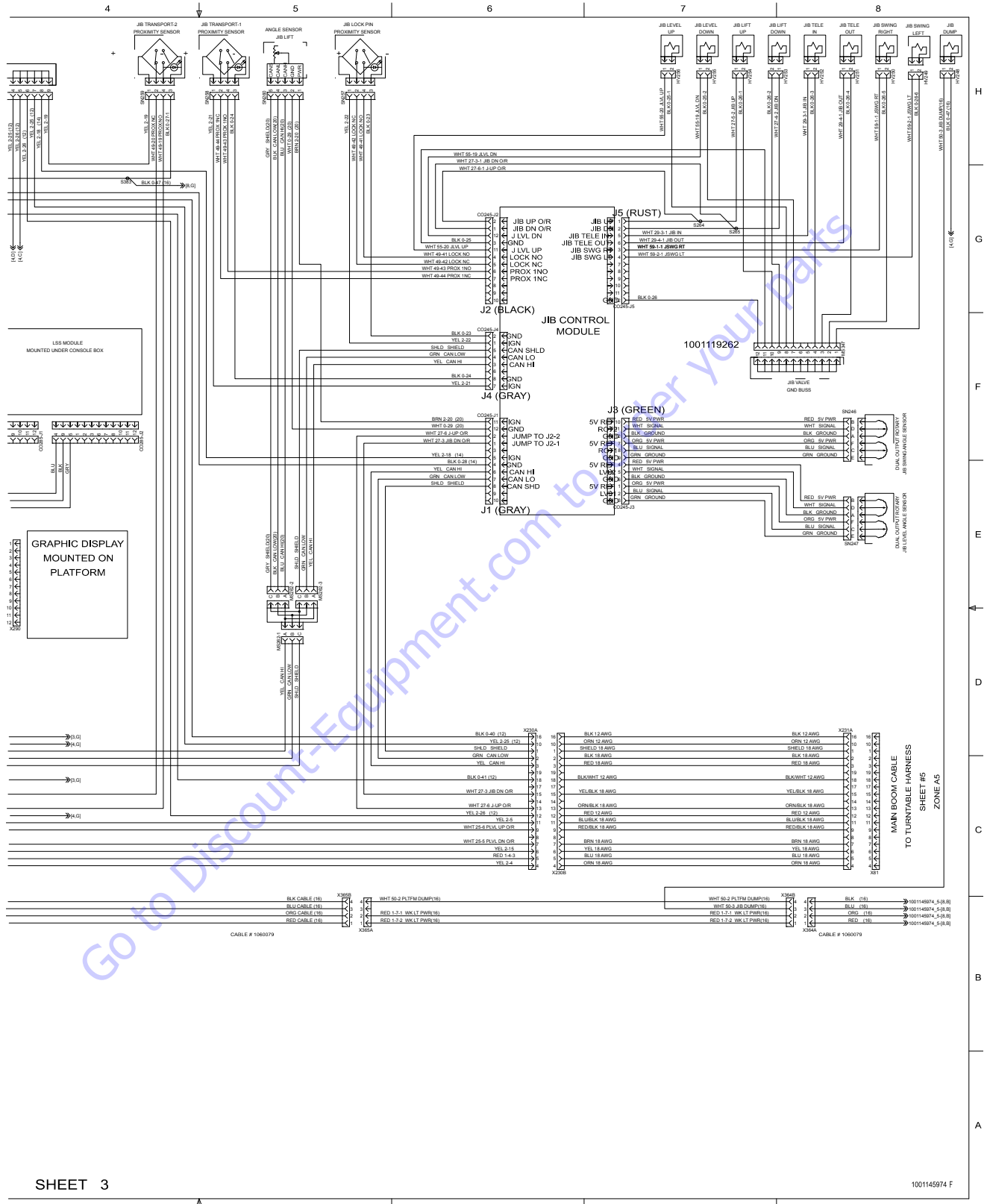


Figure 7-77. Electrical Schematic (SN 0300224828 through SN 0300243454) - Sheet 4 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS



SHEET 3

Figure 7-78. Electrical Schematic (SN 0300224828 through SN 0300243454) - Sheet 5 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

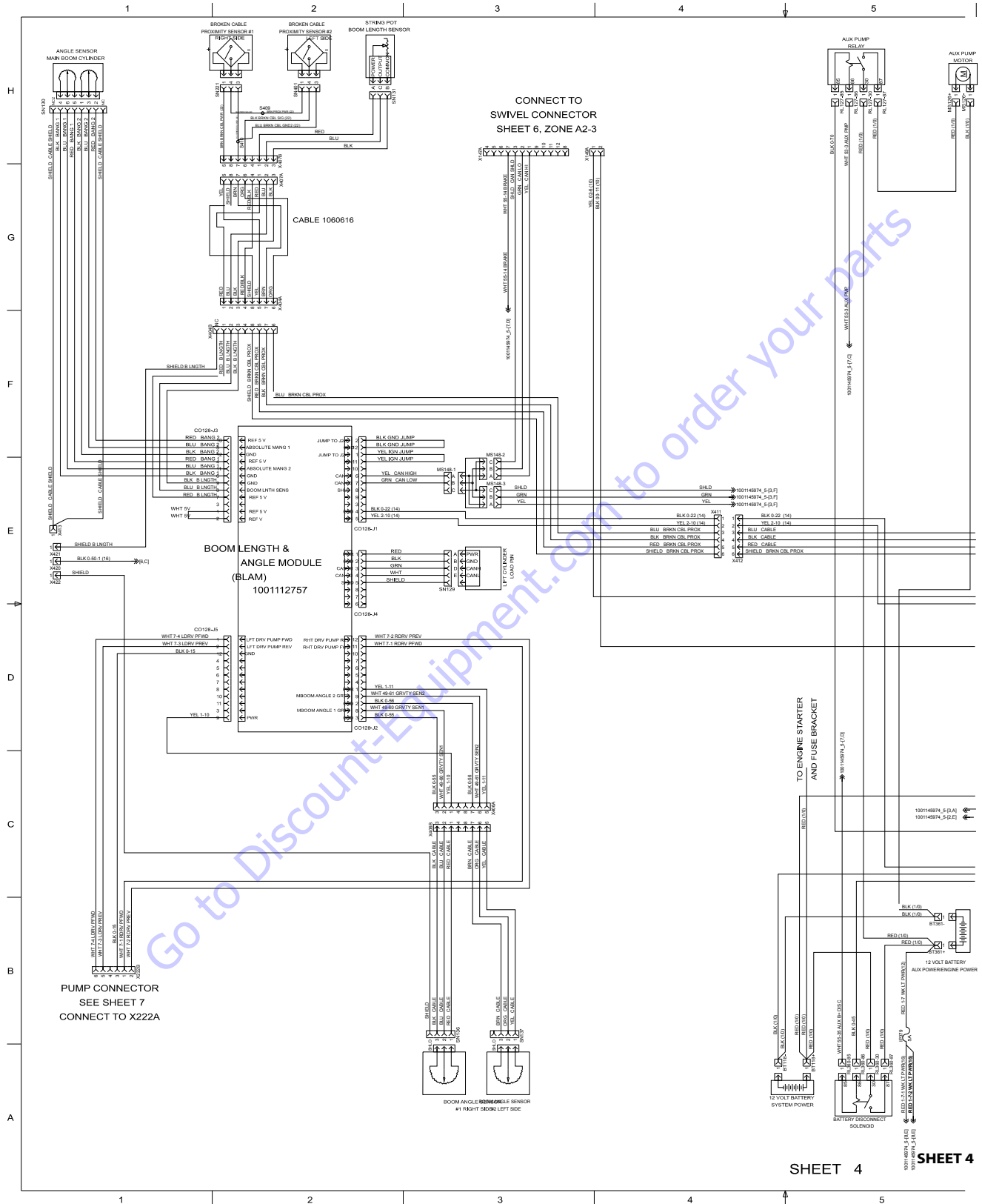


Figure 7-79. Electrical Schematic (SN 0300224828 through SN 0300243454) - Sheet 6 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

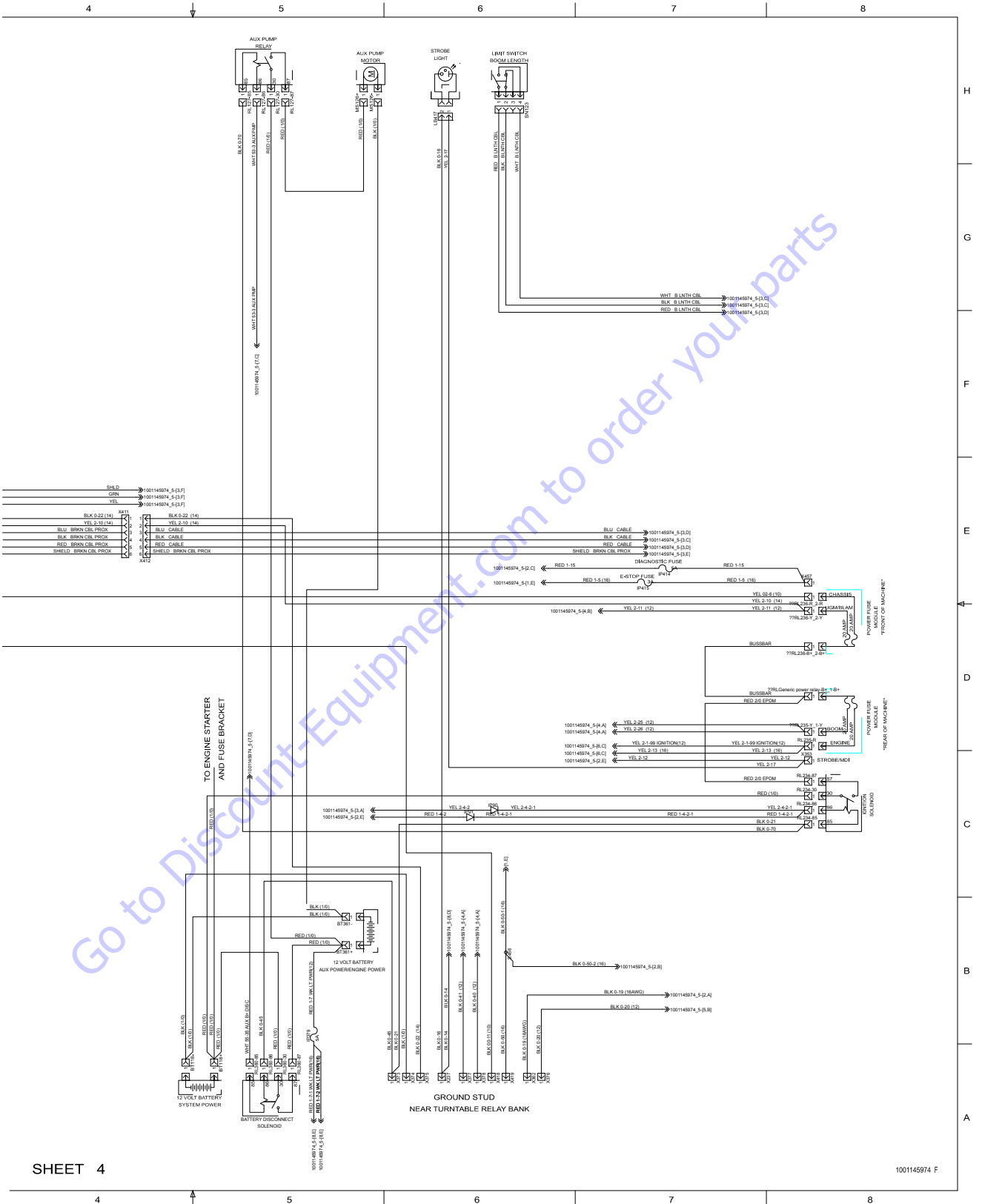


Figure 7-80. Electrical Schematic (SN 0300224828 through SN 0300243454) - Sheet 7 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

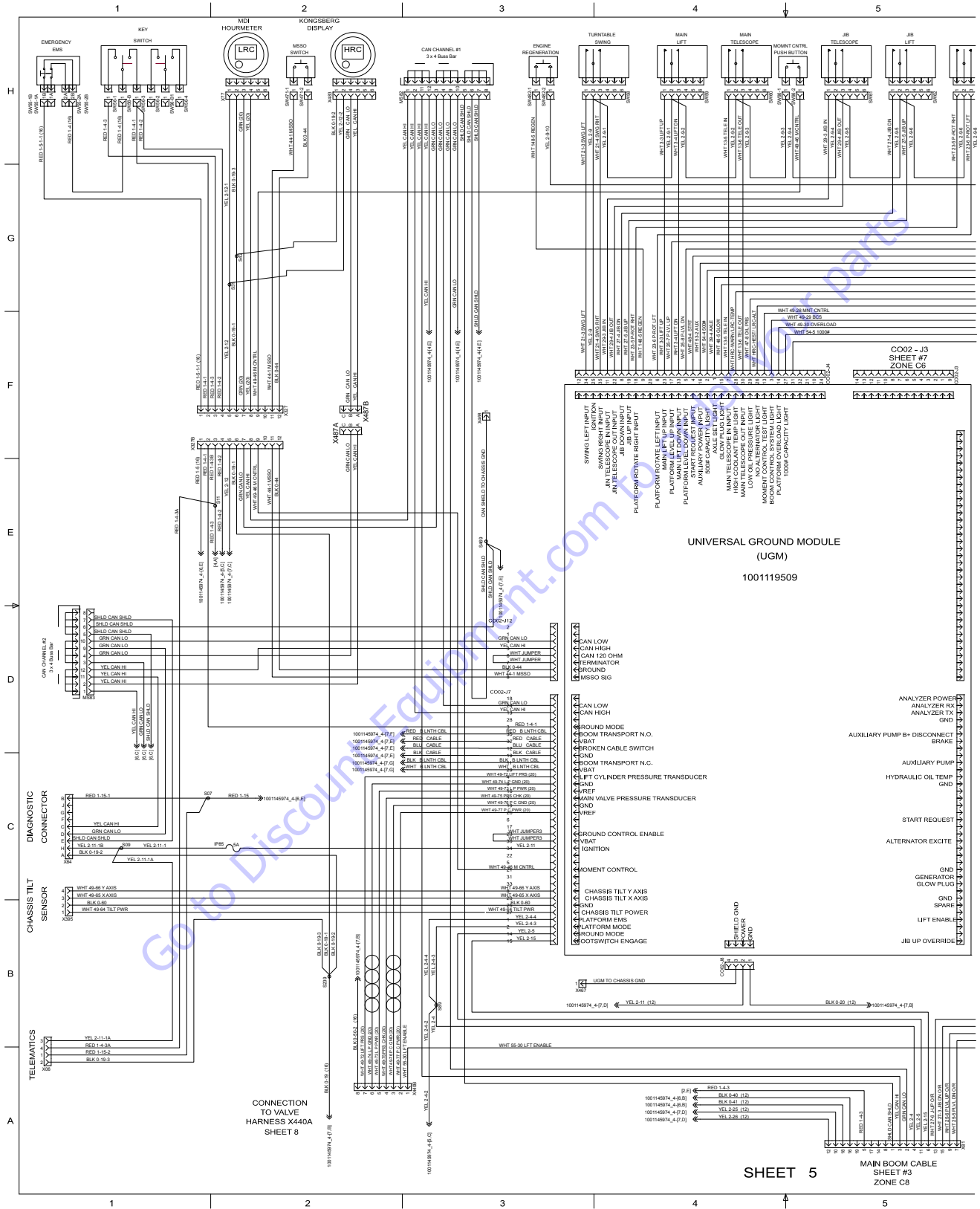


Figure 7-81. Electrical Schematic (SN 0300224828 through SN 0300243454) - Sheet 8 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

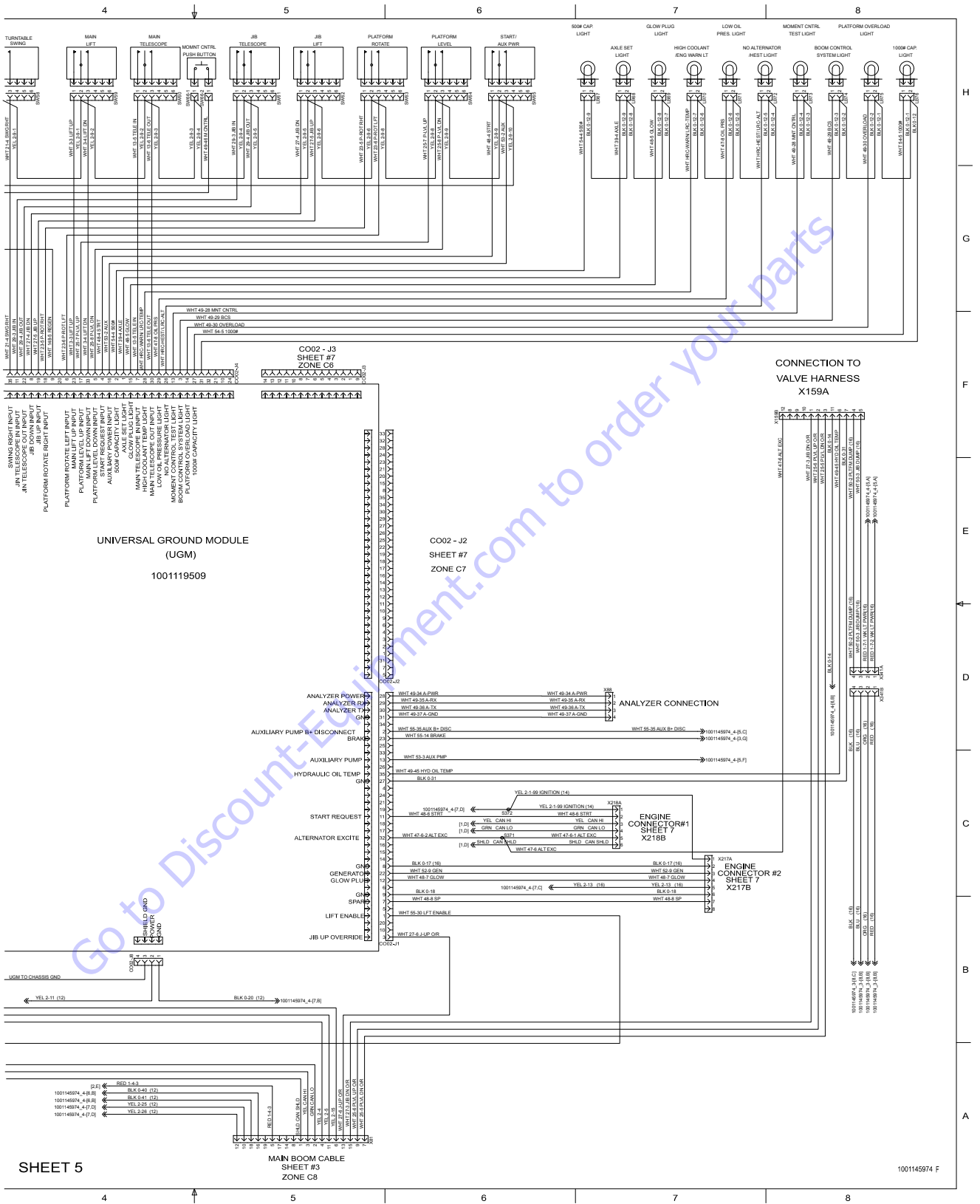


Figure 7-82. Electrical Schematic (SN 0300224828 through SN 0300243454) - Sheet 9 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

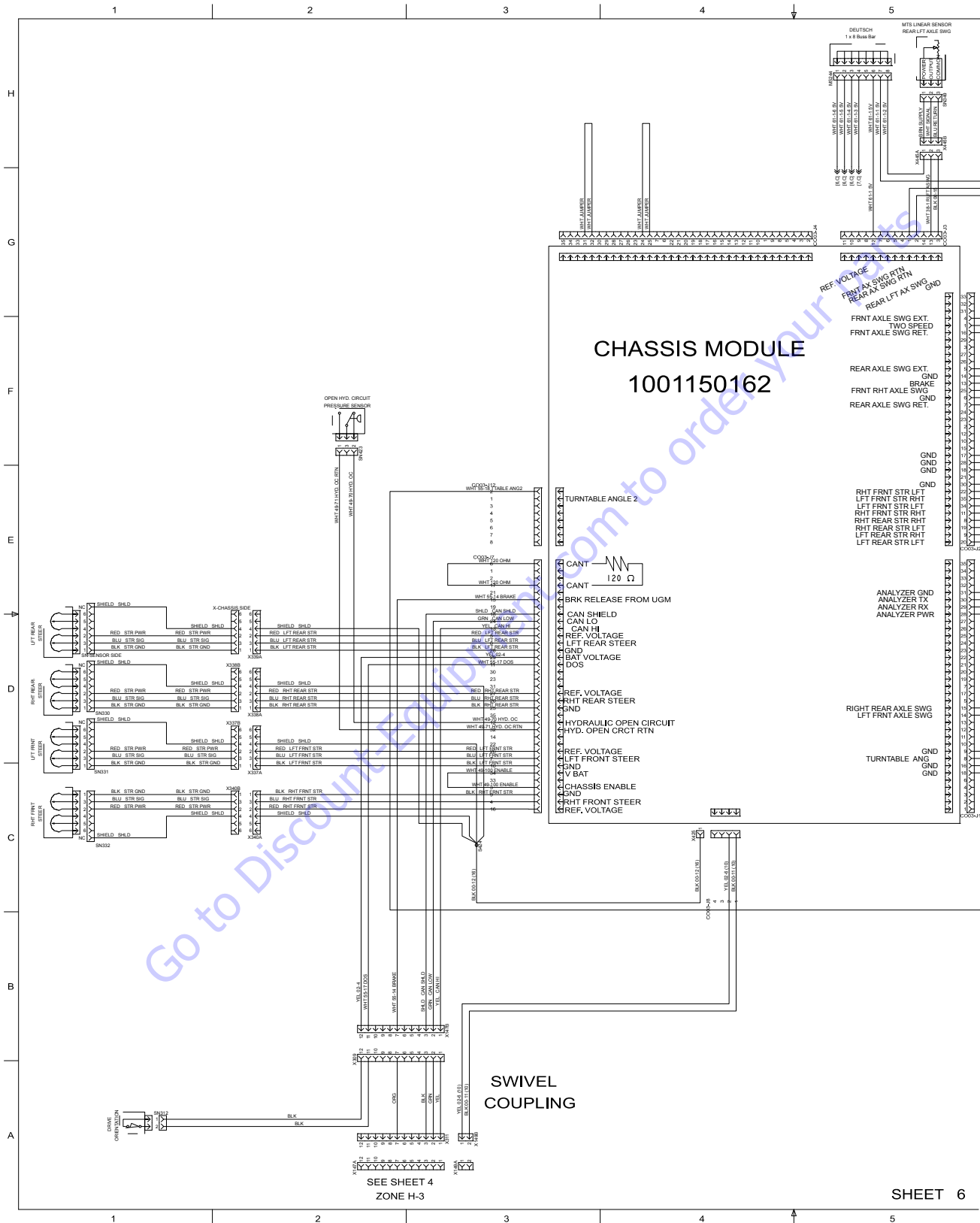
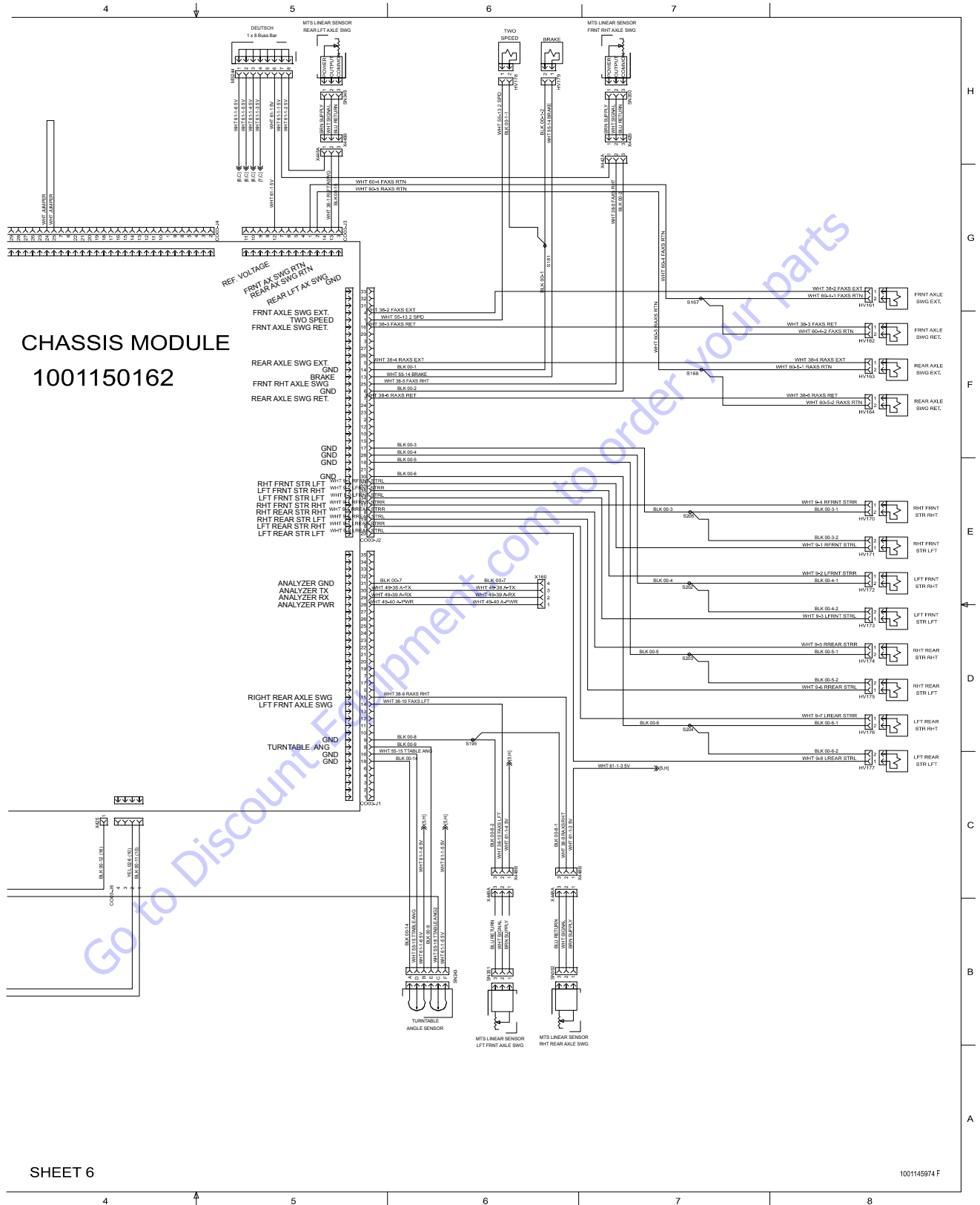


Figure 7-83. Electrical Schematic (SN 0300224828 through SN 0300243454) - Sheet 10 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS



SHEET 6

1001145974 F

Figure 7-84. Electrical Schematic (SN 0300224828 through SN 0300243454) - Sheet 11 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

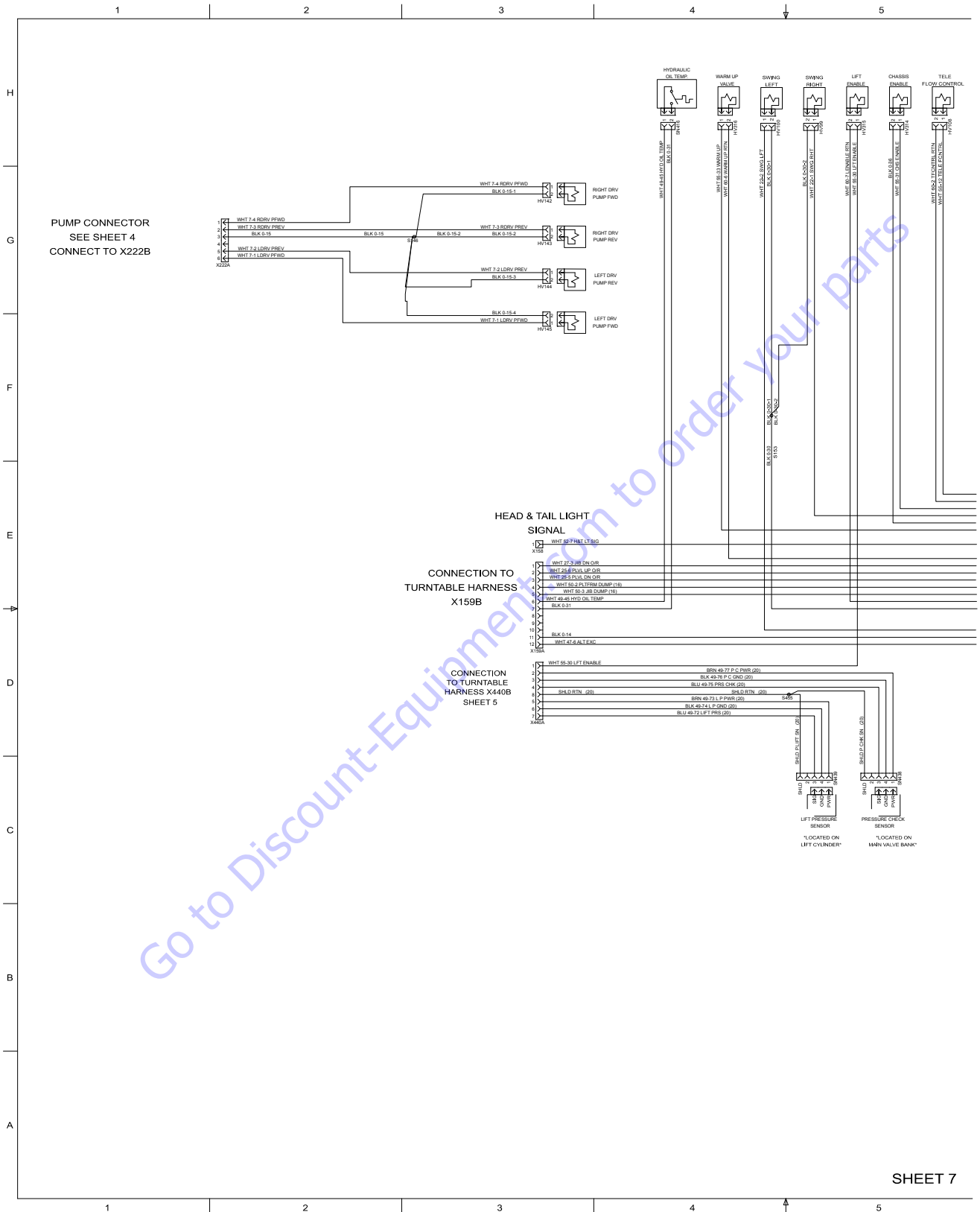


Figure 7-85. Electrical Schematic (SN 0300224828 through SN 0300243454) - Sheet 12 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

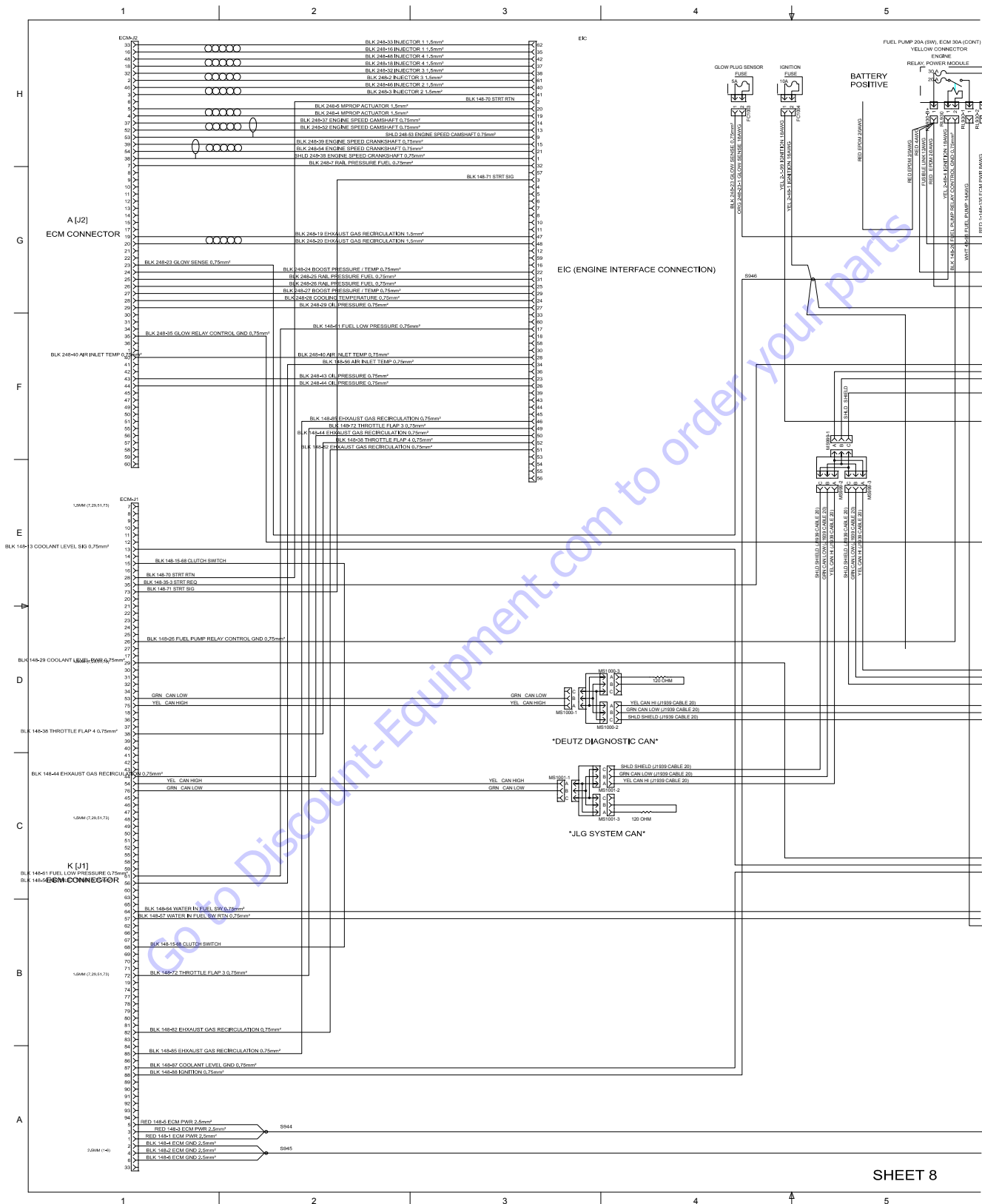


Figure 7-87. Electrical Schematic (SN 0300224828 through SN 0300243454) - Sheet 14 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

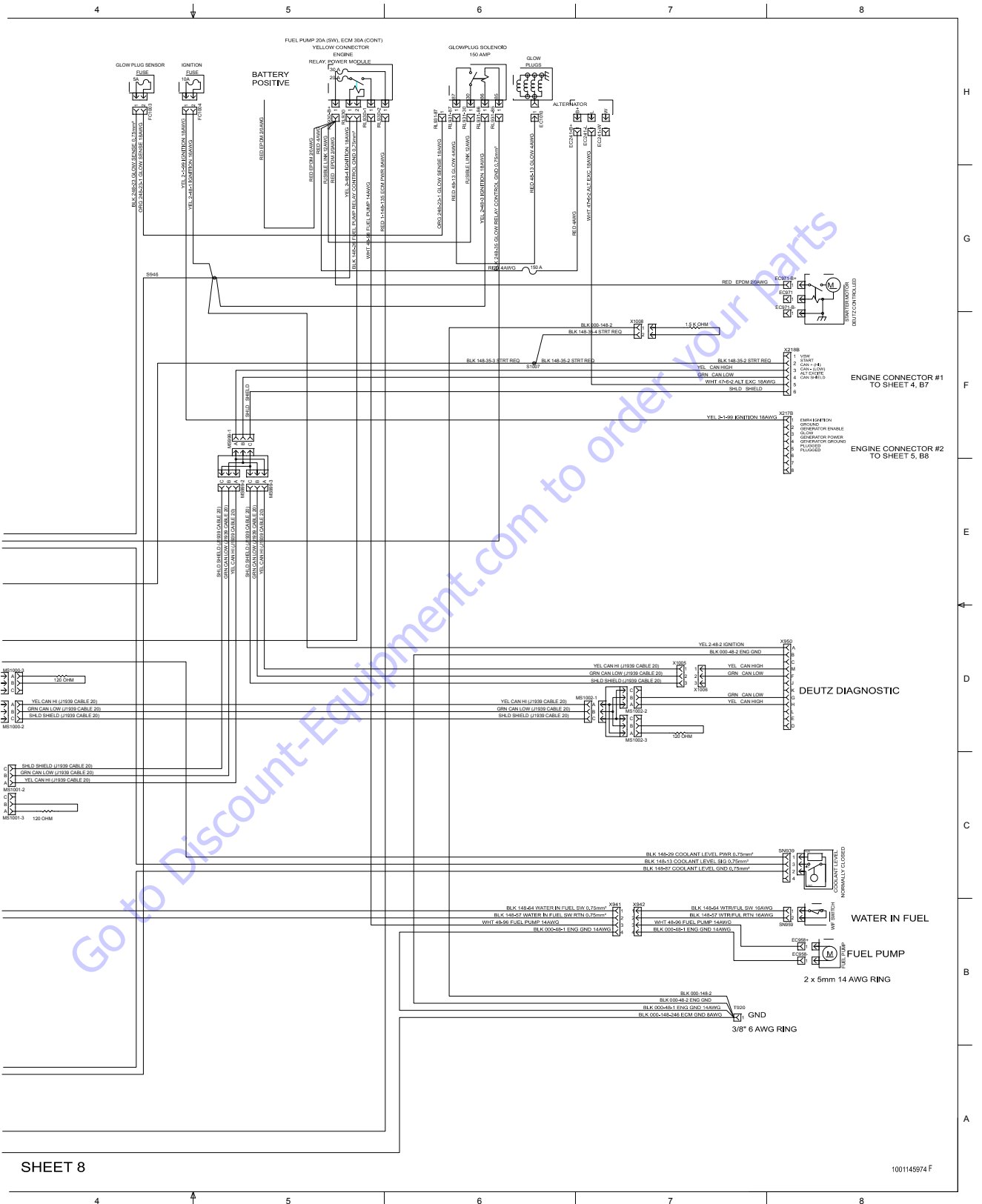


Figure 7-88. Electrical Schematic (SN 0300224828 through SN 0300243454) - Sheet 15 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

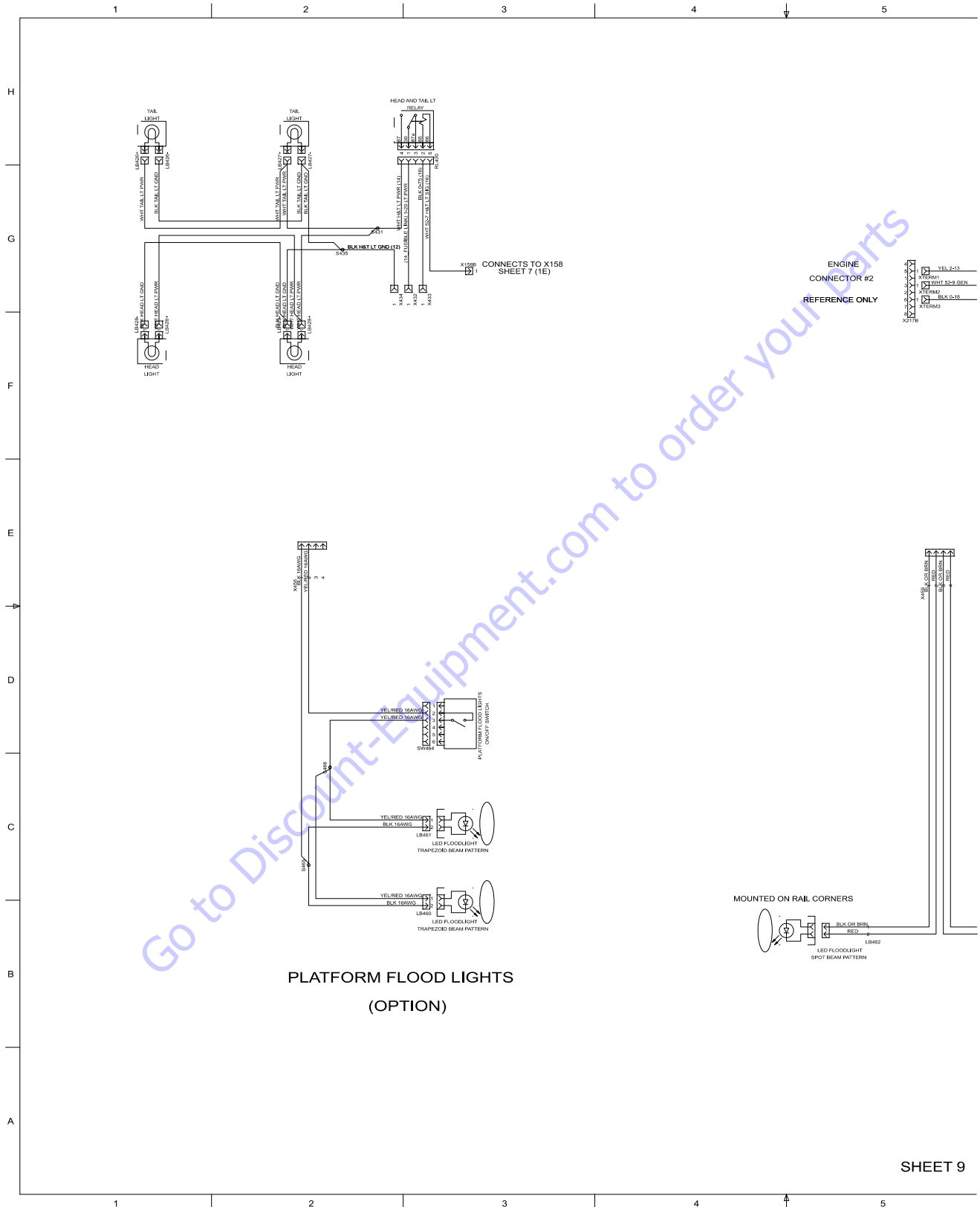


Figure 7-89. Electrical Schematic (SN 0300224828 through SN 0300243454) - Sheet 16 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

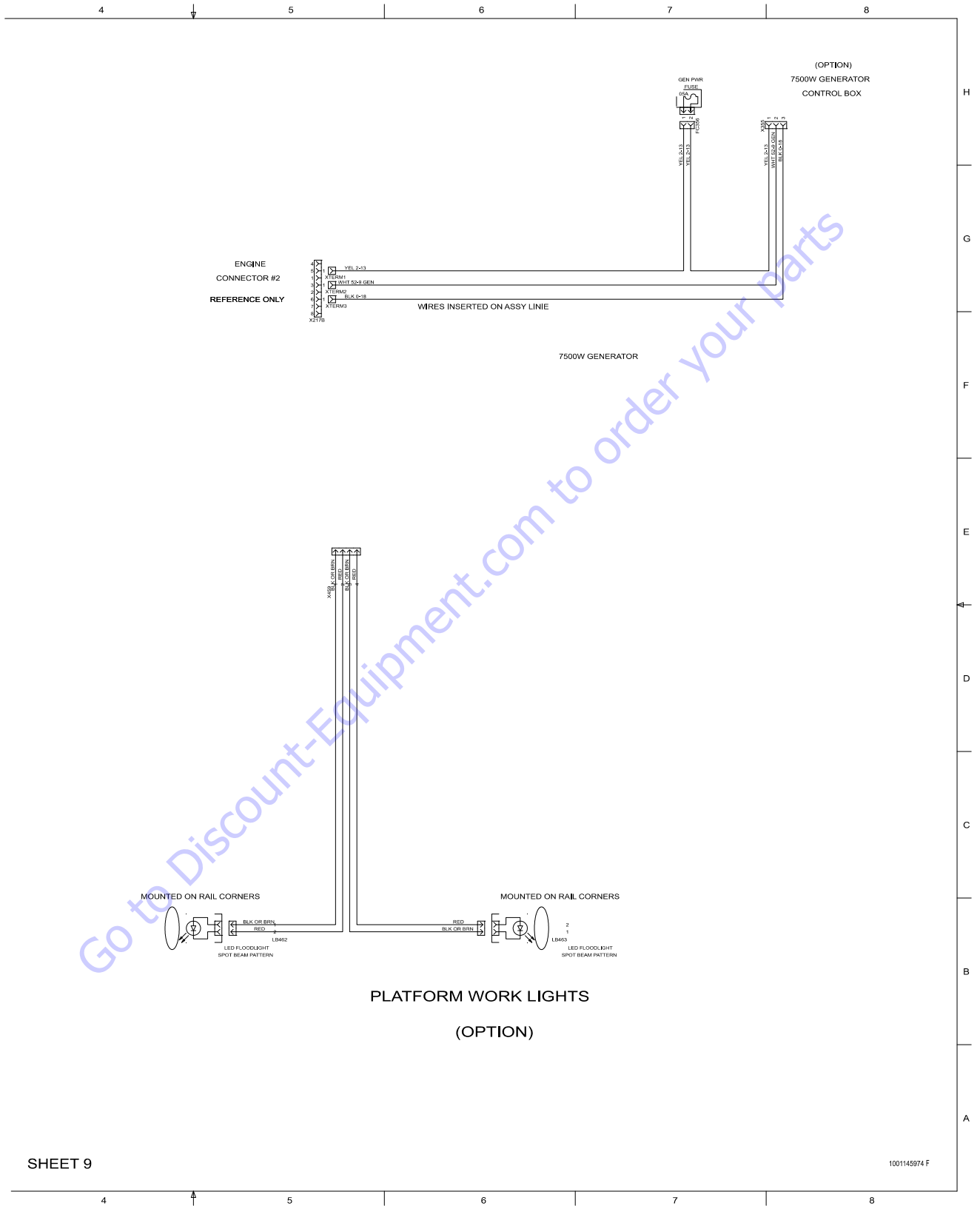


Figure 7-90. Electrical Schematic (SN 0300224828 through SN 0300243454) - Sheet 17 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

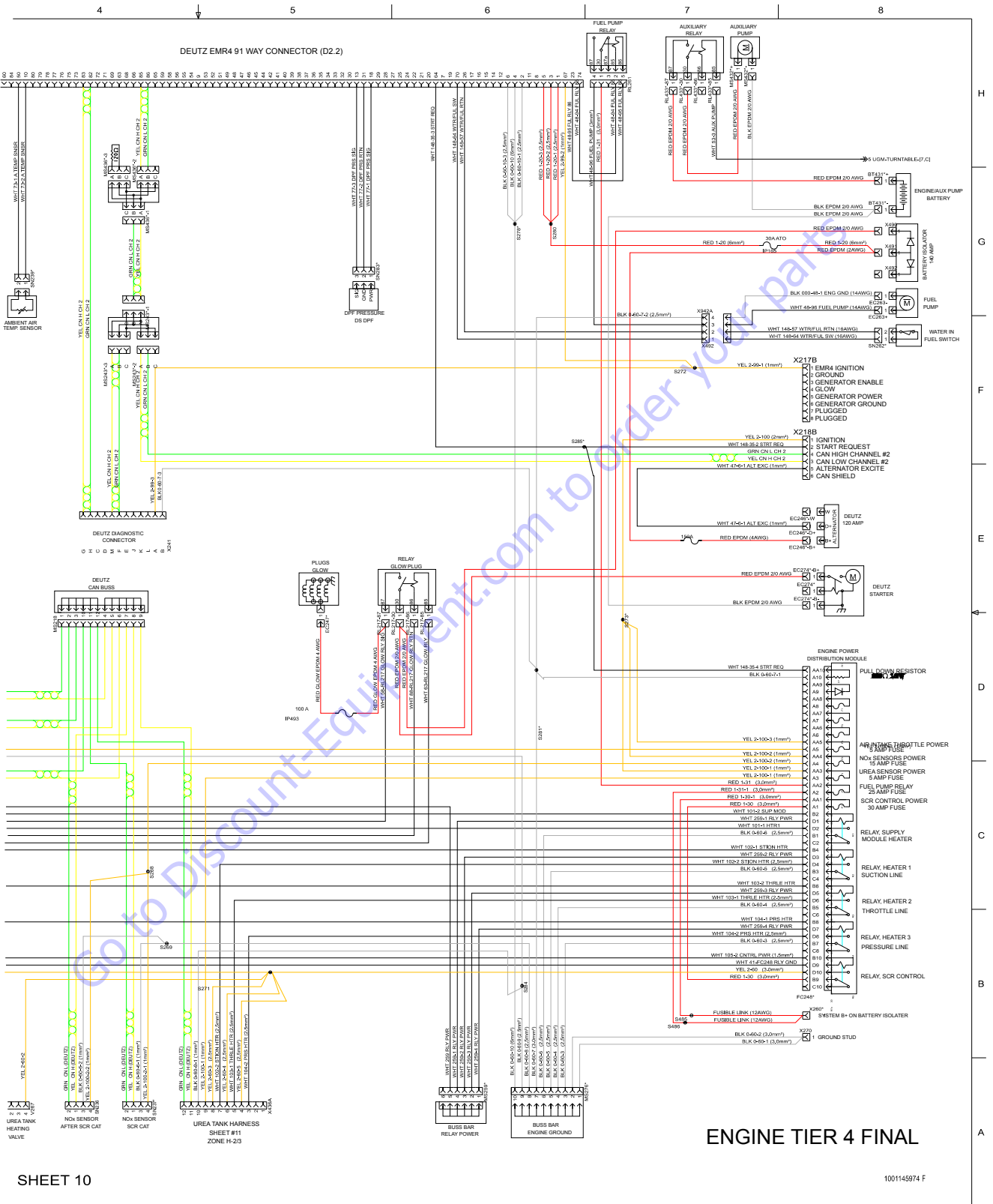
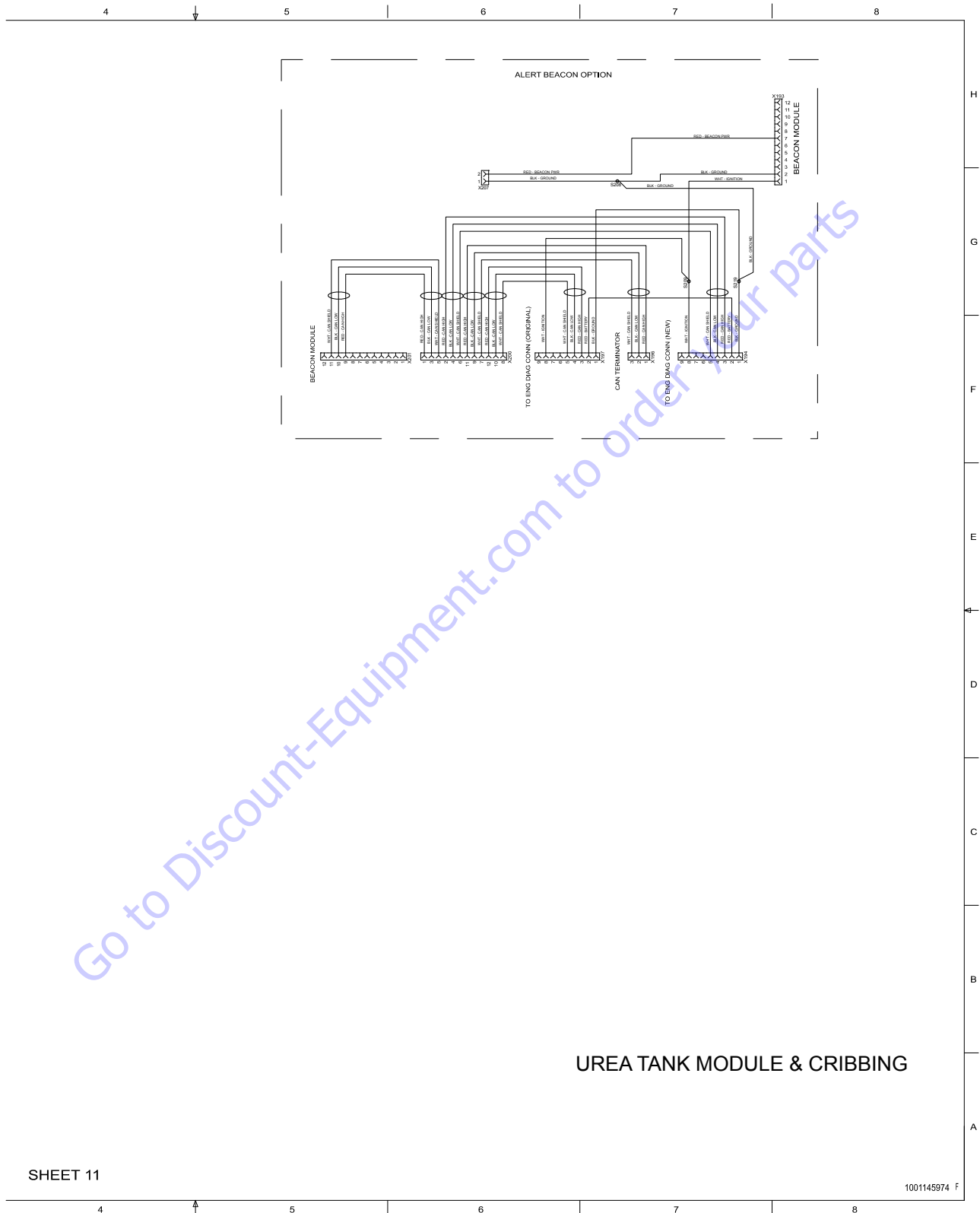


Figure 7-92. Electrical Schematic (SN 0300224828 through SN 0300243454) - Sheet 19 of 21



SHEET 11

1001145974 F

Figure 7-94. Electrical Schematic (SN 0300224828 through SN 0300243454) - Sheet 21 of 21

This page left blank intentionally

Go to Discount-Equipment.com to order your parts

1850SJ ELECTRICAL SCHEMATIC

SHEET 2: PLATFORM BOX

HARNESS, CONTROL BOX
ELECTRICAL ASSEMBLY, CONSOLE BOX

SHEET 3: PLATFORM AND JIB COMPONENTS

HARNESS, PLATFORM VALVE
HARNESS, JIB VALVE

SHEET 4: TURNTABLE AND BOOM

HARNESS, BLAM
CABLE, LOAD SENSING PIN
CABLE, BASE BOOM SENSOR
HARNESS, BASE BOOM
HARNESS, BECON/STROBE
HARNESS, FUEL PUMP and WIF
CABLE, TURNTABLE BATTERY KIT
CABLE, AUX POWER POSITIVE
CABLE, AUX POWER NEGATIVE
ELECTRICAL INSTALL

SHEET 5: GROUND CONTROLS (UGM)

HARNESS, TURNTABLE
HARNESS, GROUND CONTROL PANEL

SHEET 6: CHASSIS

HARNESS, CHASSIS
CABLE, STEER
CABLE, M12 MTS CONNECTION

SHEET 7: HYDRAULIC VALVES

HARNESS, HYDRAULIC VALVE BANK
HARNESS, DRIVE PUMP

SHEET 8: ENGINE

HARNESS, ENGINE T4j
HARNESS, CAN ENGINE
CABLE, ALTERNATOR POWER
CABLE, POSITIVE BATTERY
CABLE, NEGATIVE BATTERY
WIRE, GLOW FUSE
CABLE, GLOW PLUG

SHEET 9: OPTIONS

HARNESS, GENERATOR ENABLE
HARNESS, HEAD AND TAIL LIGHTS

SHEET 10: ENGINE TIER 4 FINAL

HARNESS, ENGINE T4F BOOM
CABLE, TURNTABLE BATTERY KIT
CABLE, POSITIVE BAT TO ENGINE
CABLE, GLOW PLUG (100A FUSED)
CABLE, ALTERNATOR 150 AMP

SHEET 11: UREA TANK/ SUPPLY MODULE

CRIBBING OPTION
ALERT BEACON OPTION
GEN 2 PLAT INTERFACE
HARNESS, UREA TANK
HARNESS, CRIBBING
HARNESS, GEN 2 PLAT INTERFACE

1001145974-K
MAF09010K

Figure 7-95. Electrical Schematic (SN 0300243455 to Present) - Sheet 1 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

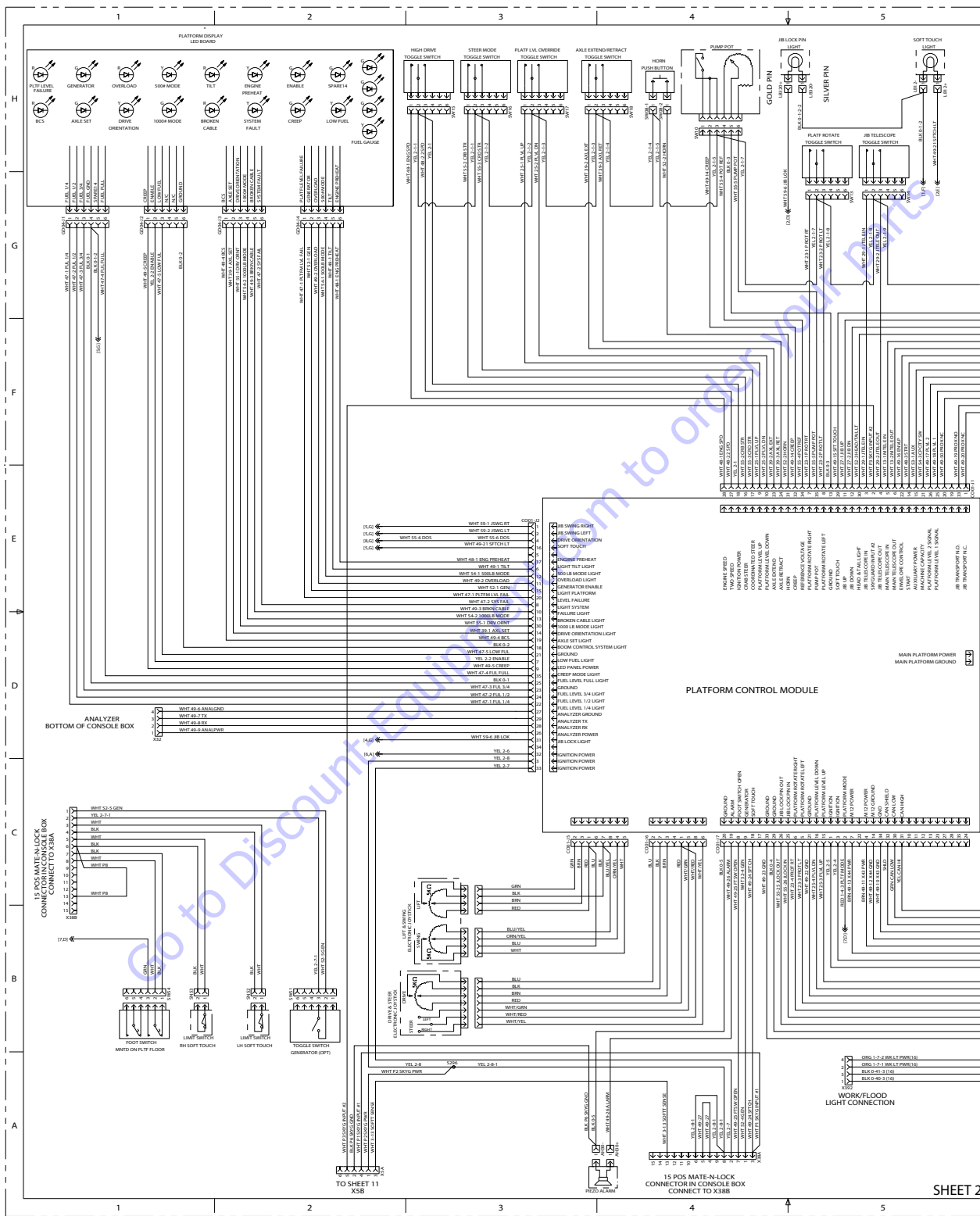


Figure 7-96. Electrical Schematic (SN 03024345 to Present) - Sheet 2 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

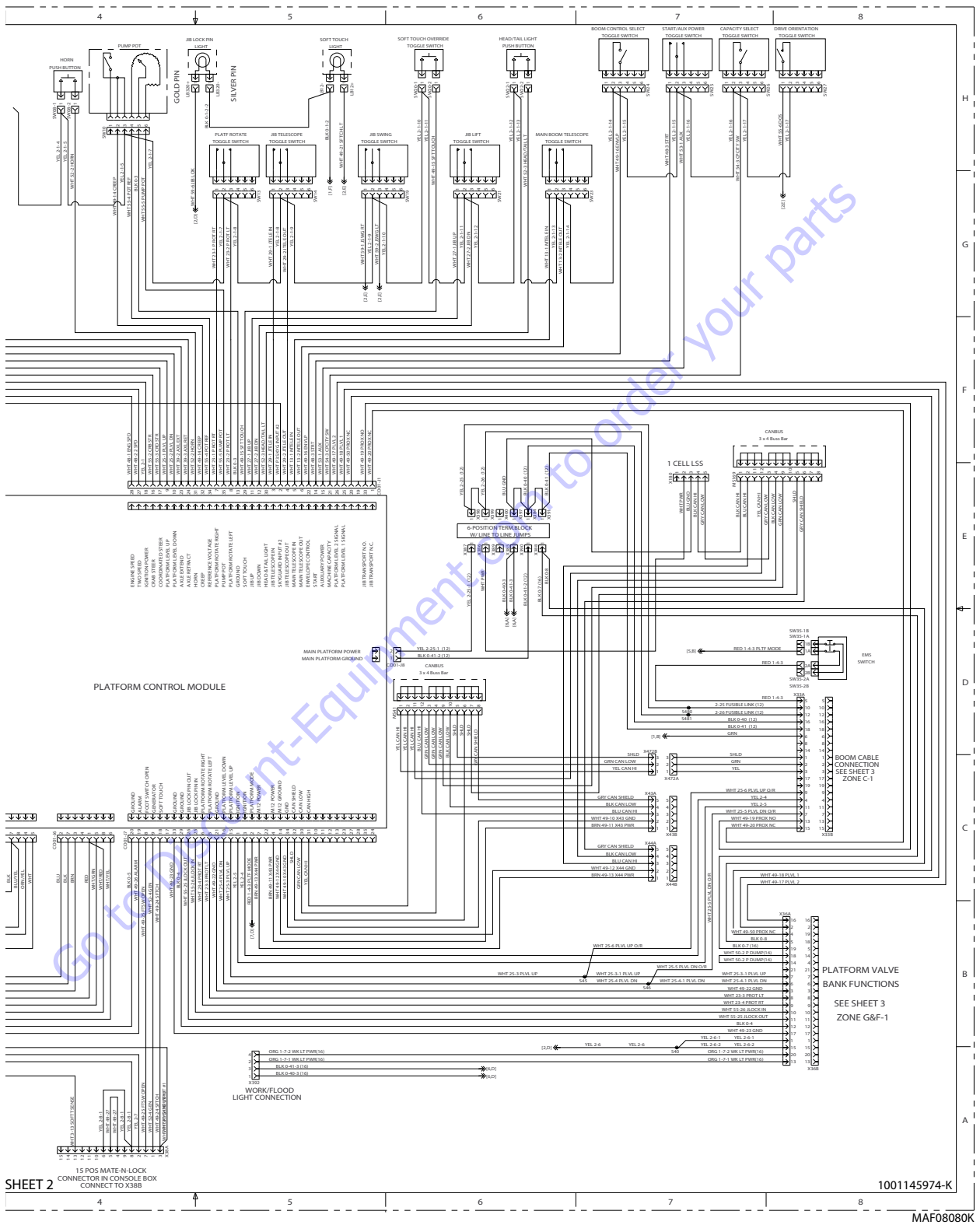


Figure 7-97. Electrical Schematic (SN 03024345 to Present) - Sheet 3 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

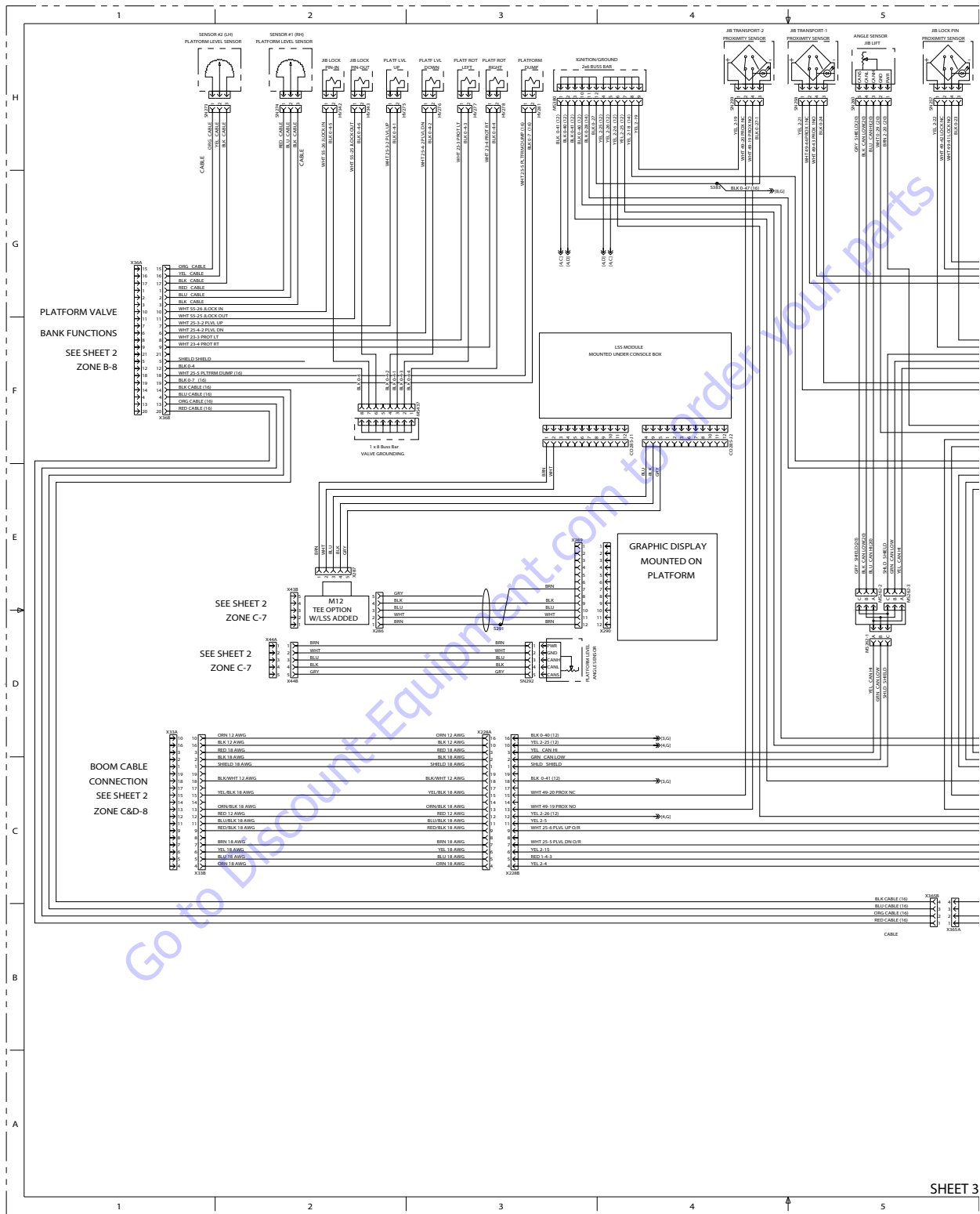
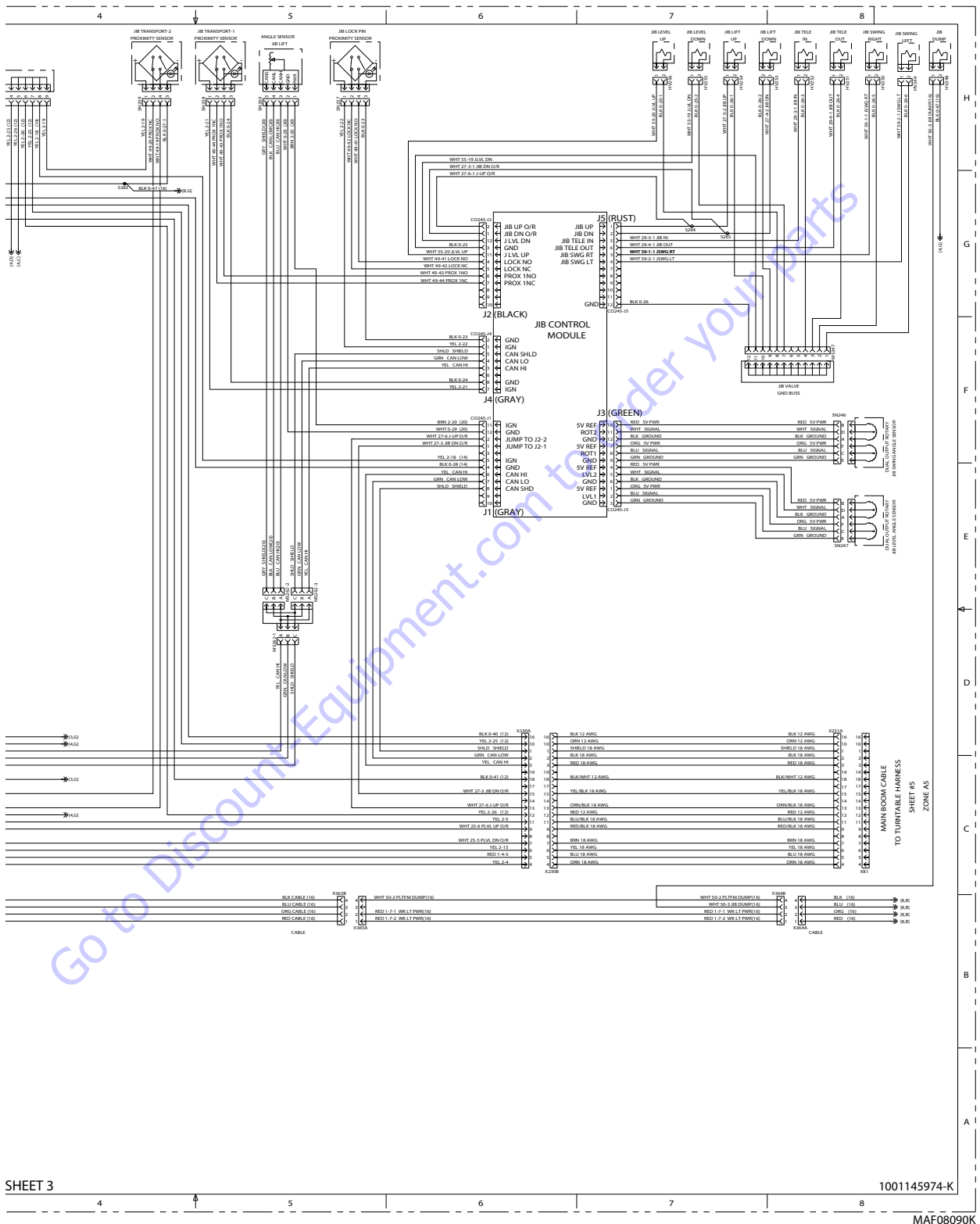


Figure 7-98. Electrical Schematic (SN 0300243455 to Present) - Sheet 4 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS



SHEET 3

1001145974-K

MAF08090K

Figure 7-99. Electrical Schematic (SN 0300243455 to Present) - Sheet 5 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

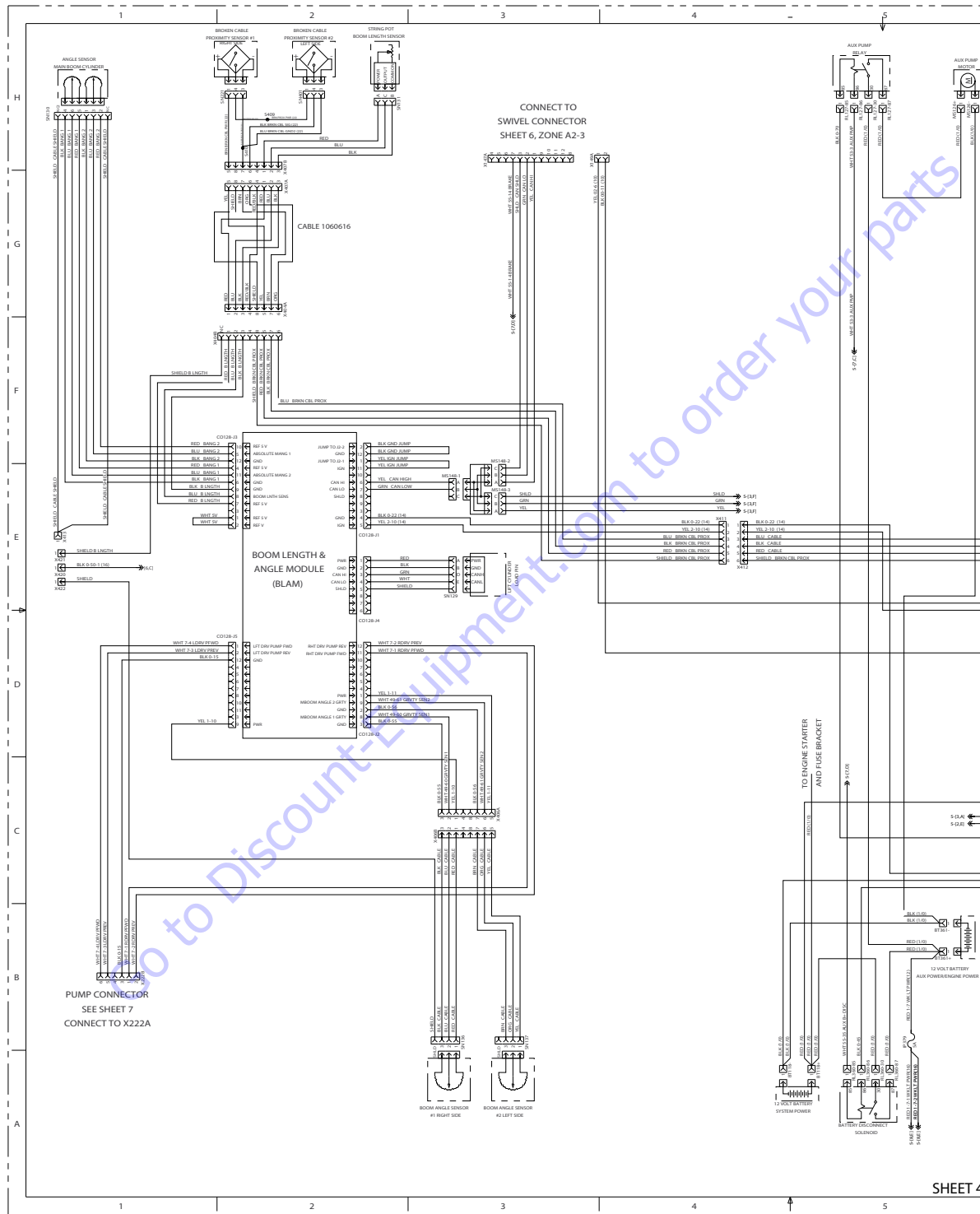


Figure 7-100. Electrical Schematic (SN 0300243455 to Present) - Sheet 6 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

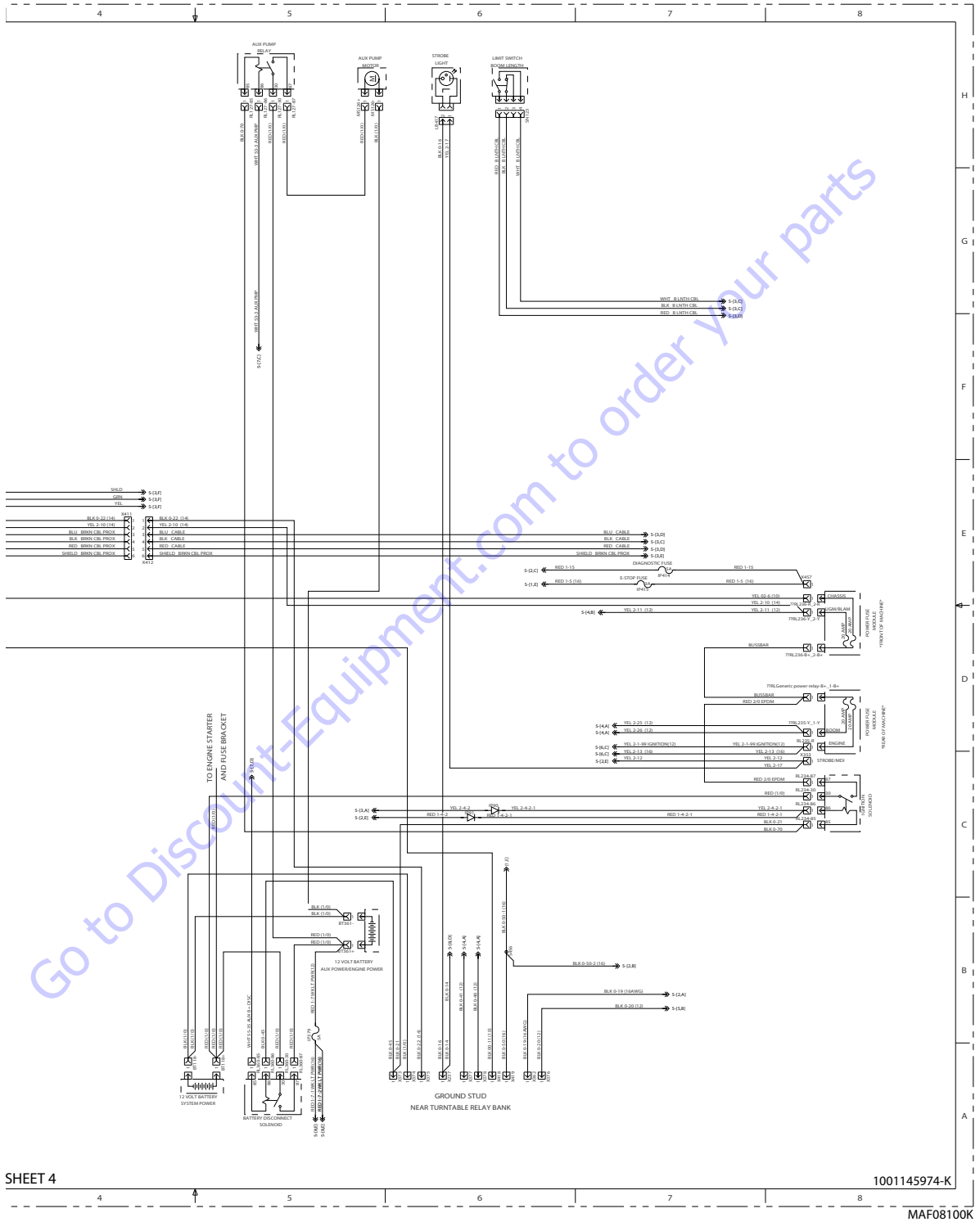


Figure 7-101. Electrical Schematic (SN 0300243455 to Present) - Sheet 7 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

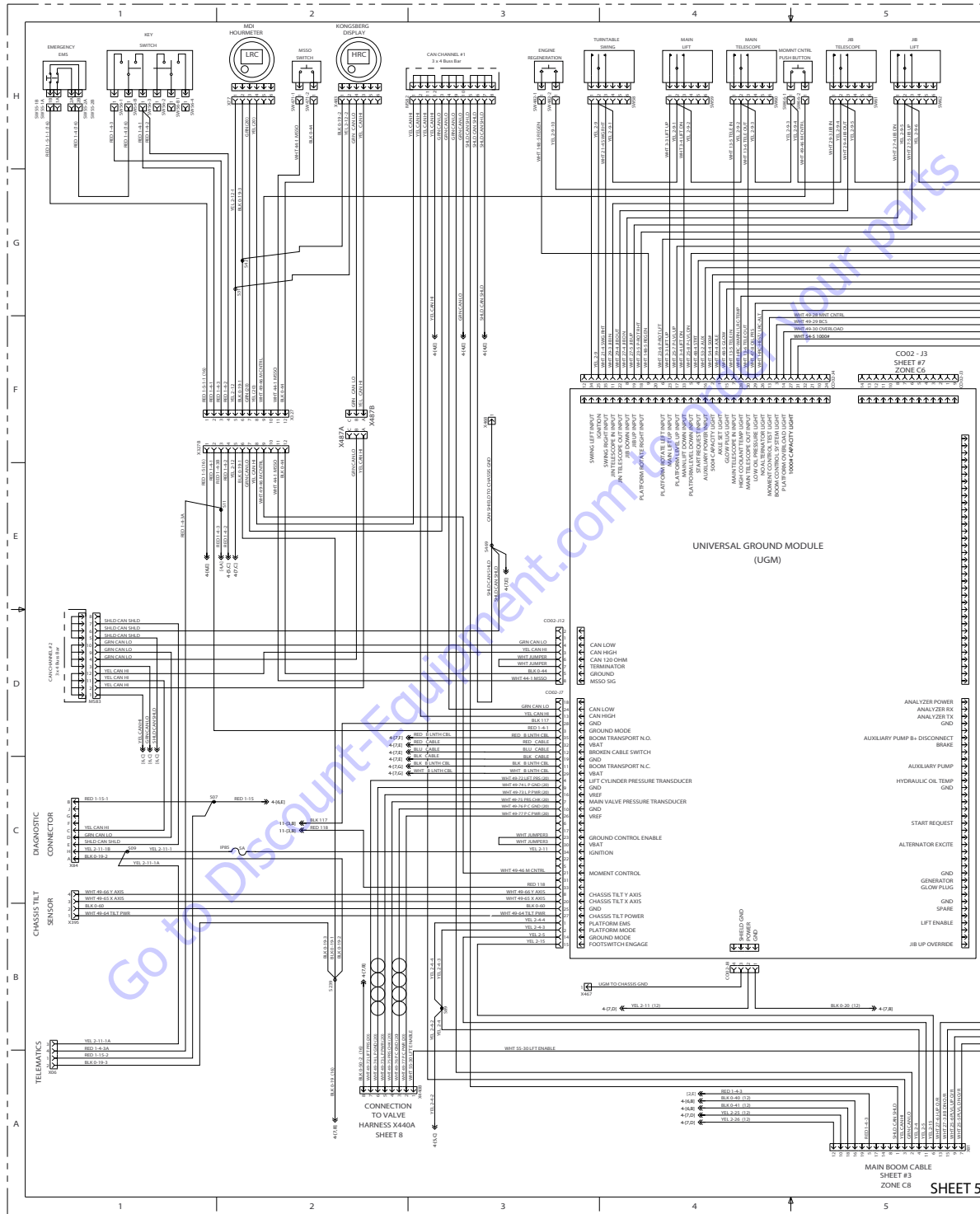


Figure 7-102. Electrical Schematic (SN 0300243455 to Present) - Sheet 8 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

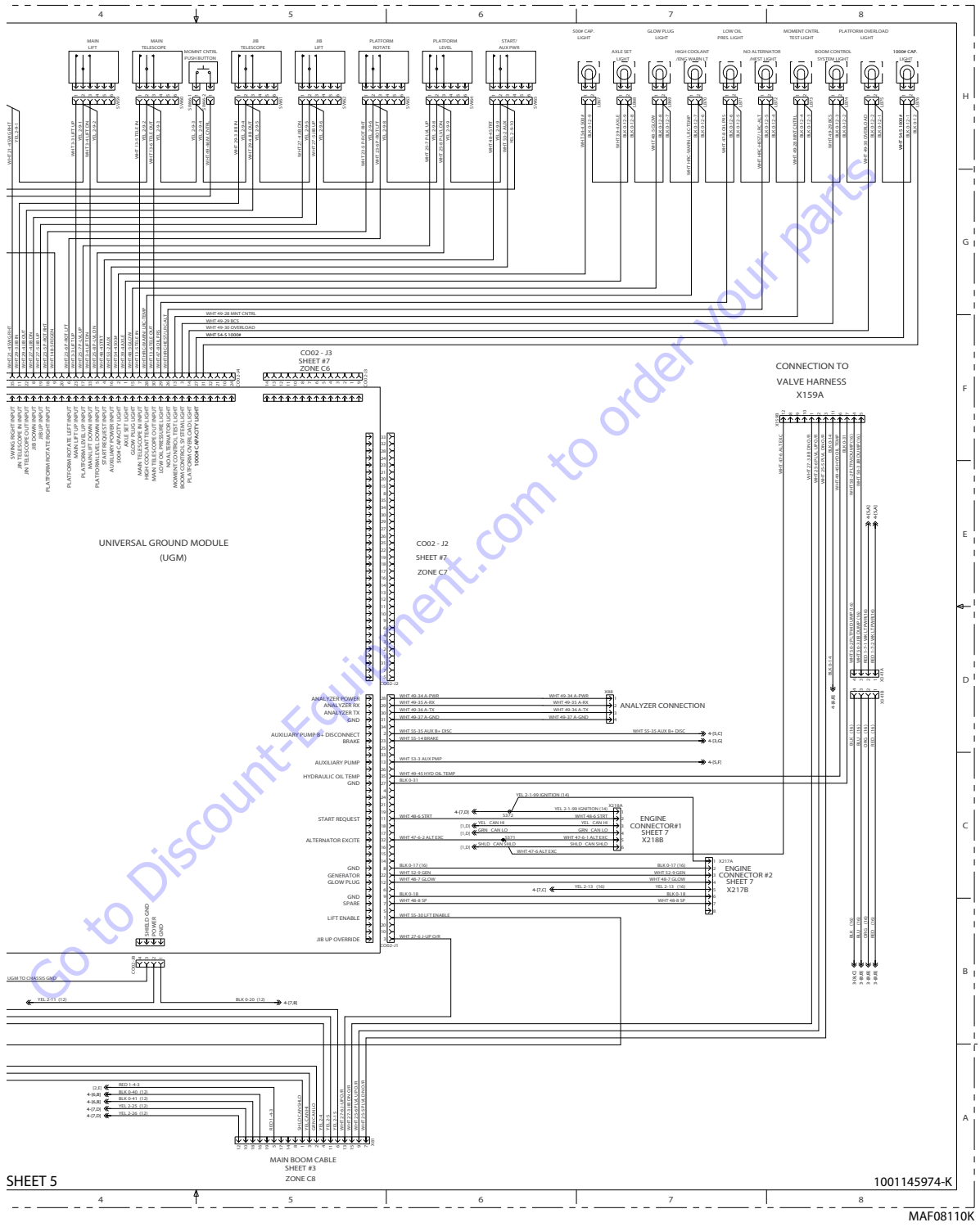


Figure 7-103. Electrical Schematic (SN 0300243455 to Present) - Sheet 9 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

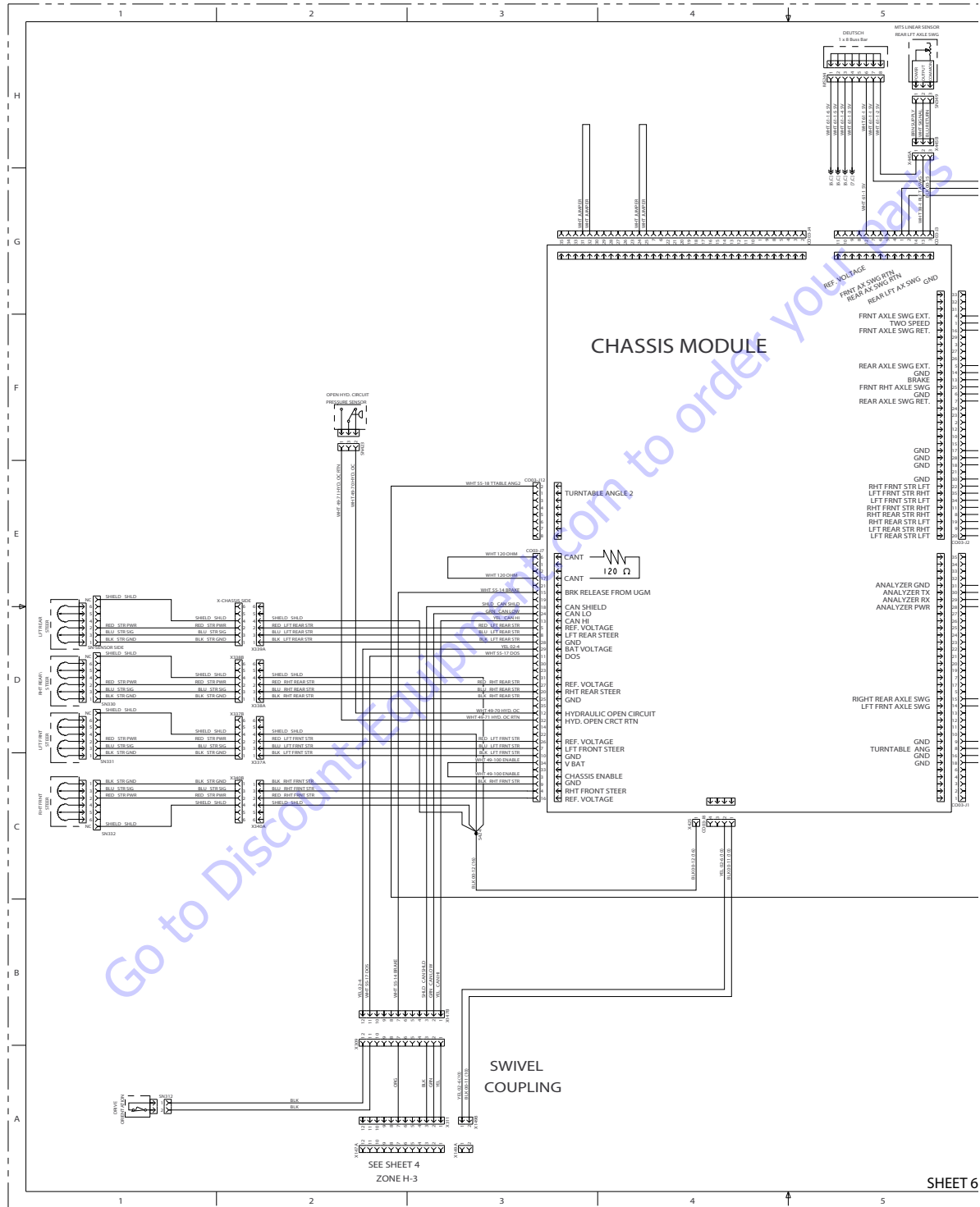


Figure 7-104. Electrical Schematic (SN 0300243455 to Present) - Sheet 10 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

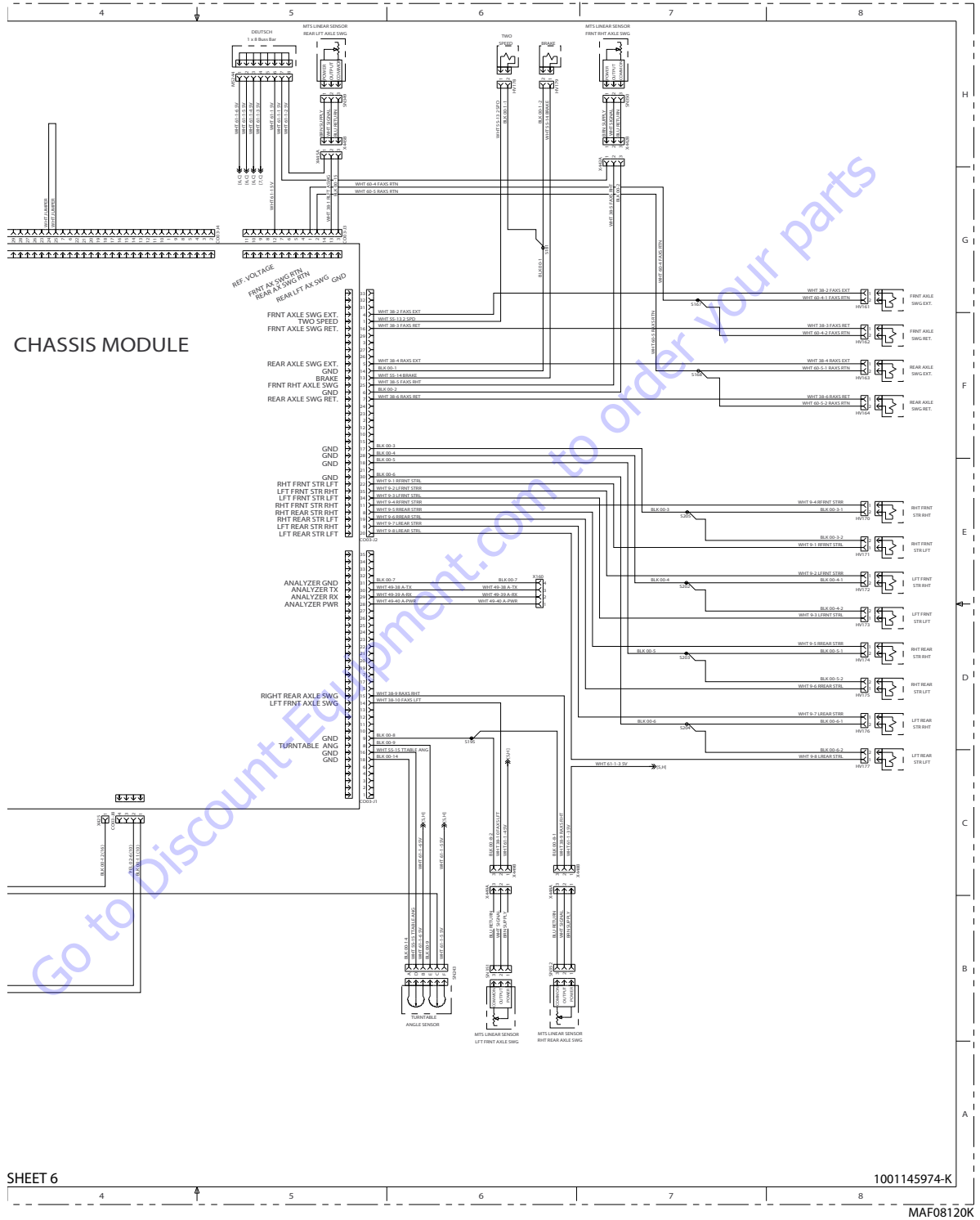


Figure 7-105. Electrical Schematic (SN 0300243455 to Present) - Sheet 11 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

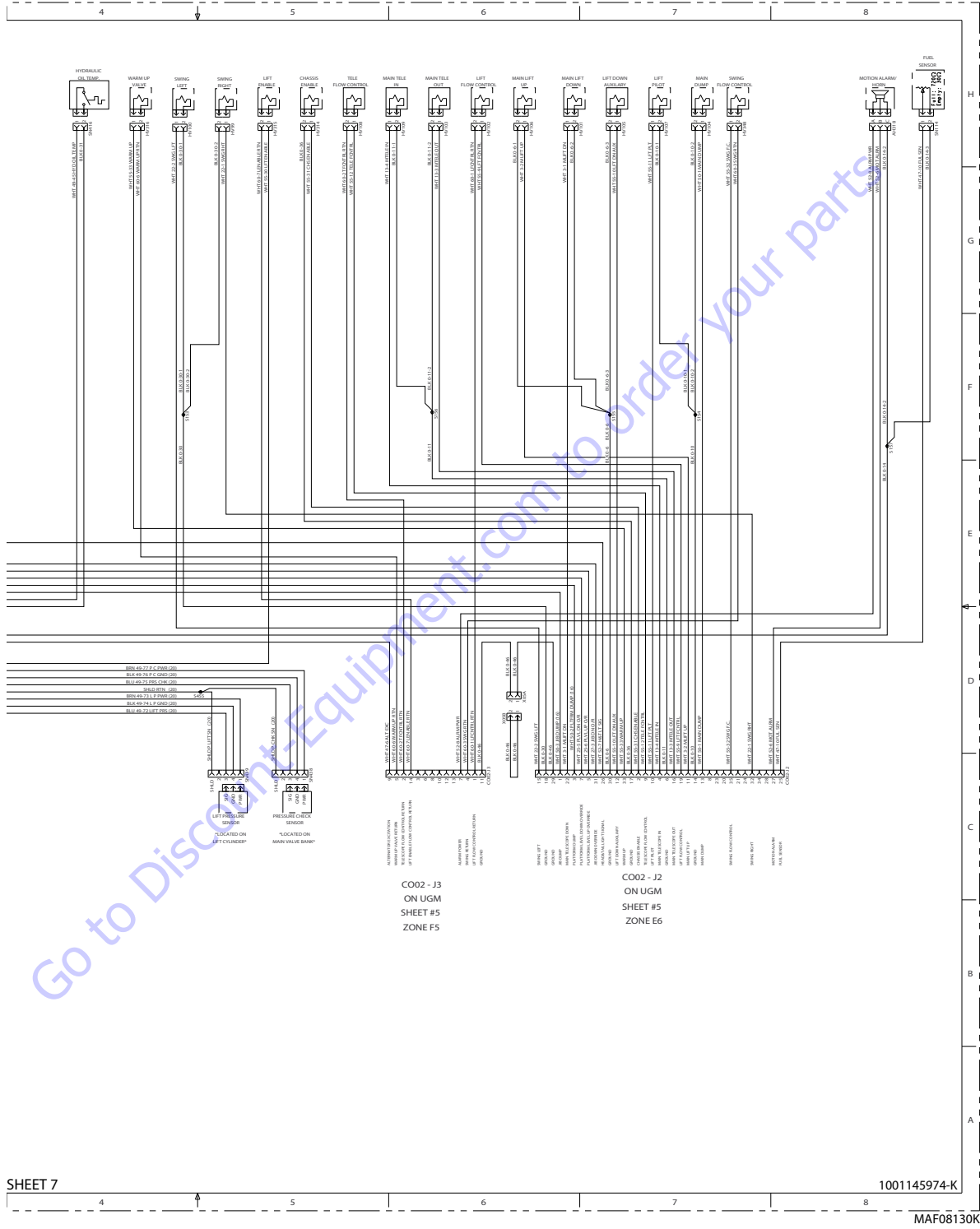


Figure 7-107. Electrical Schematic (SN 0300243455 to Present) - Sheet 13 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

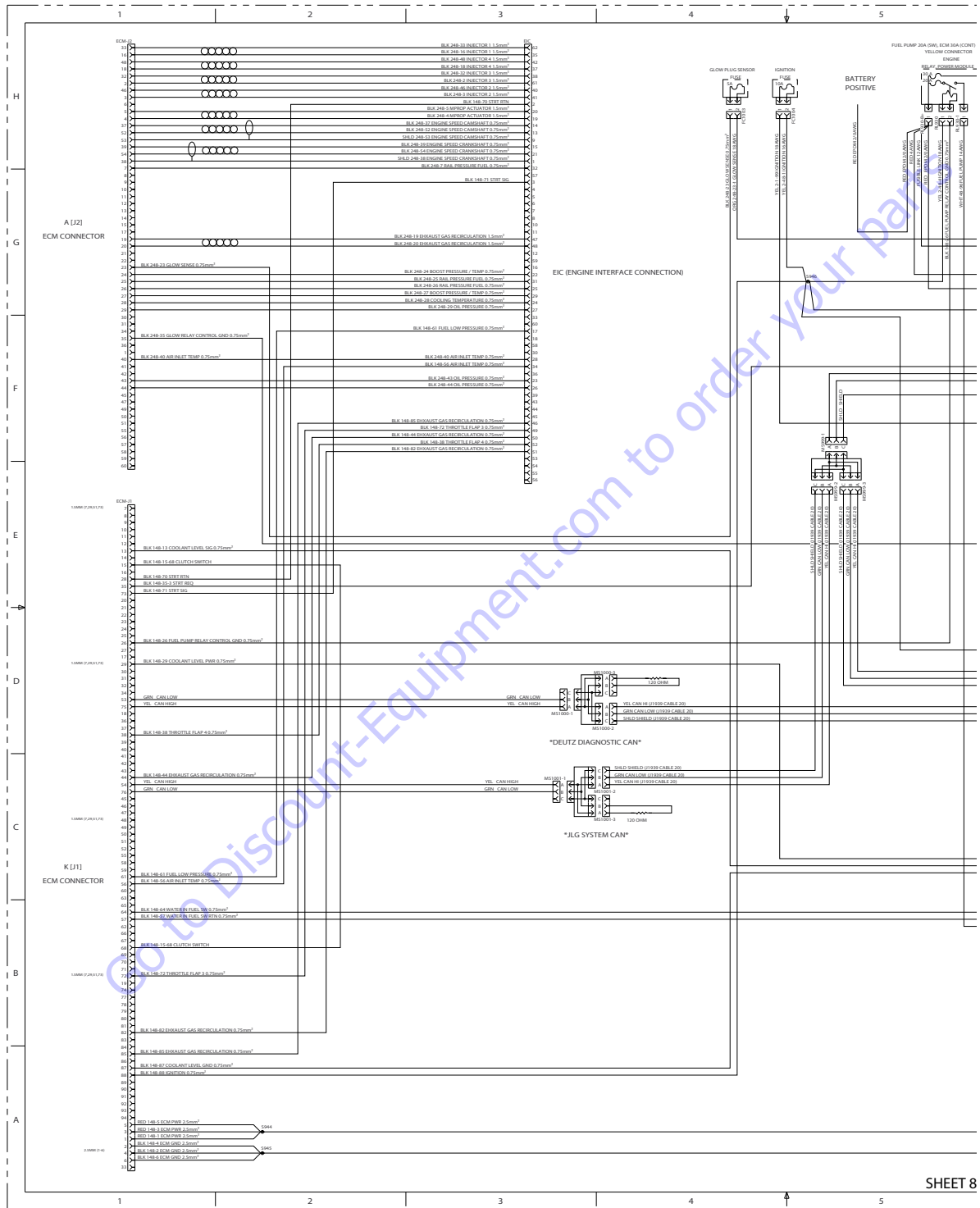


Figure 7-108. Electrical Schematic (SN 0300243455 to Present) - Sheet 14 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

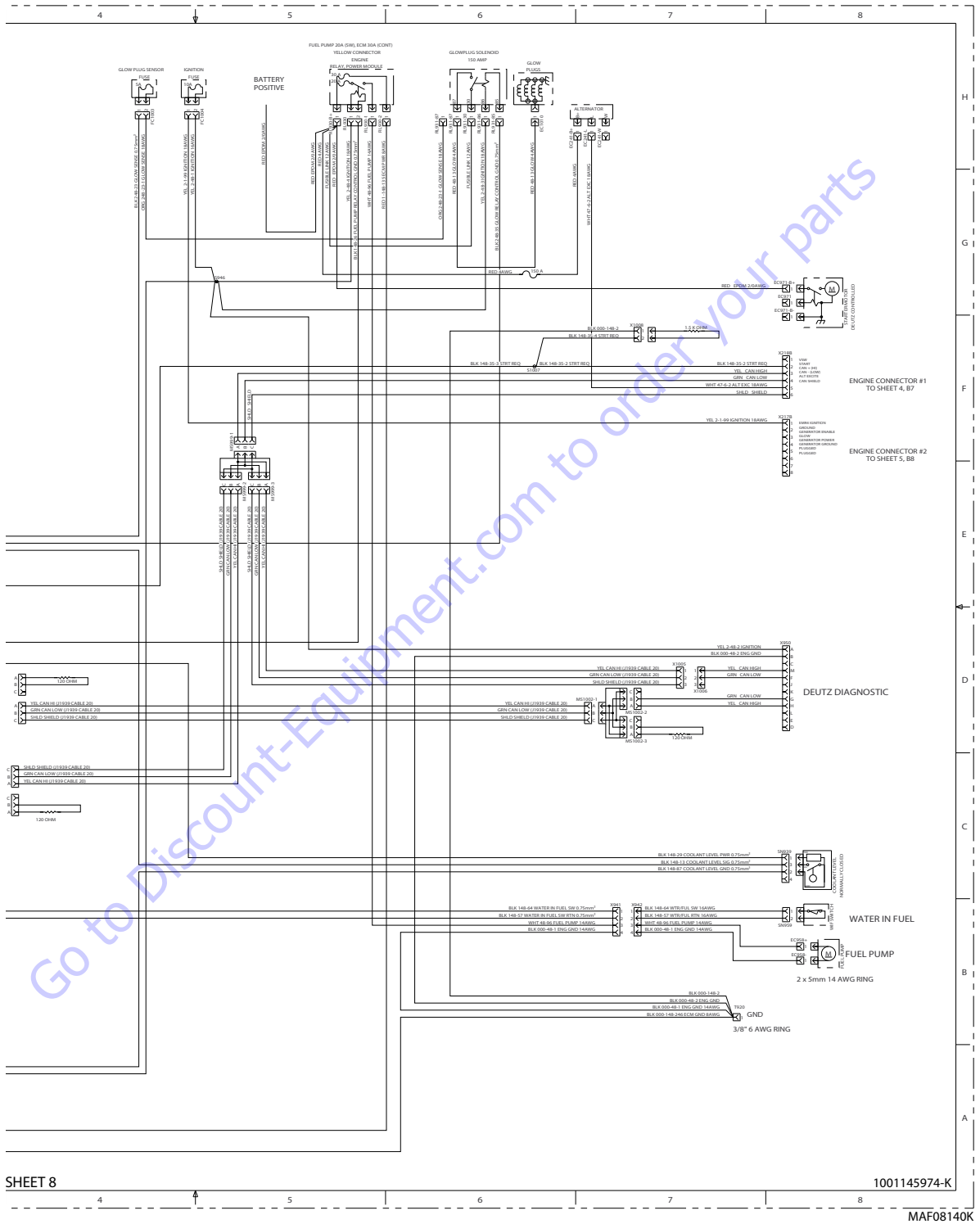


Figure 7-109. Electrical Schematic (SN 0300243455 to Present) - Sheet 15 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

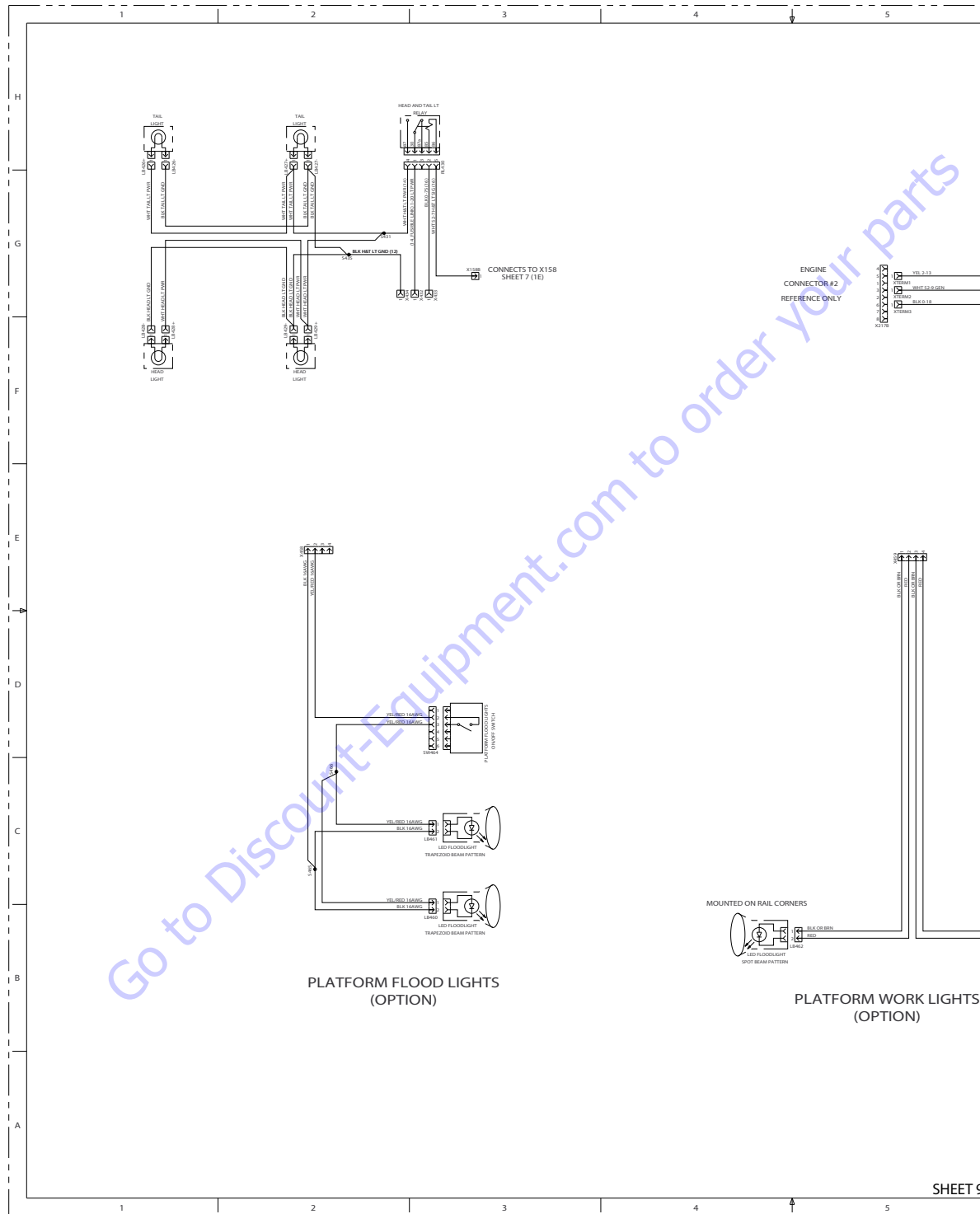


Figure 7-110. Electrical Schematic (SN 0300243455 to Present) - Sheet 16 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

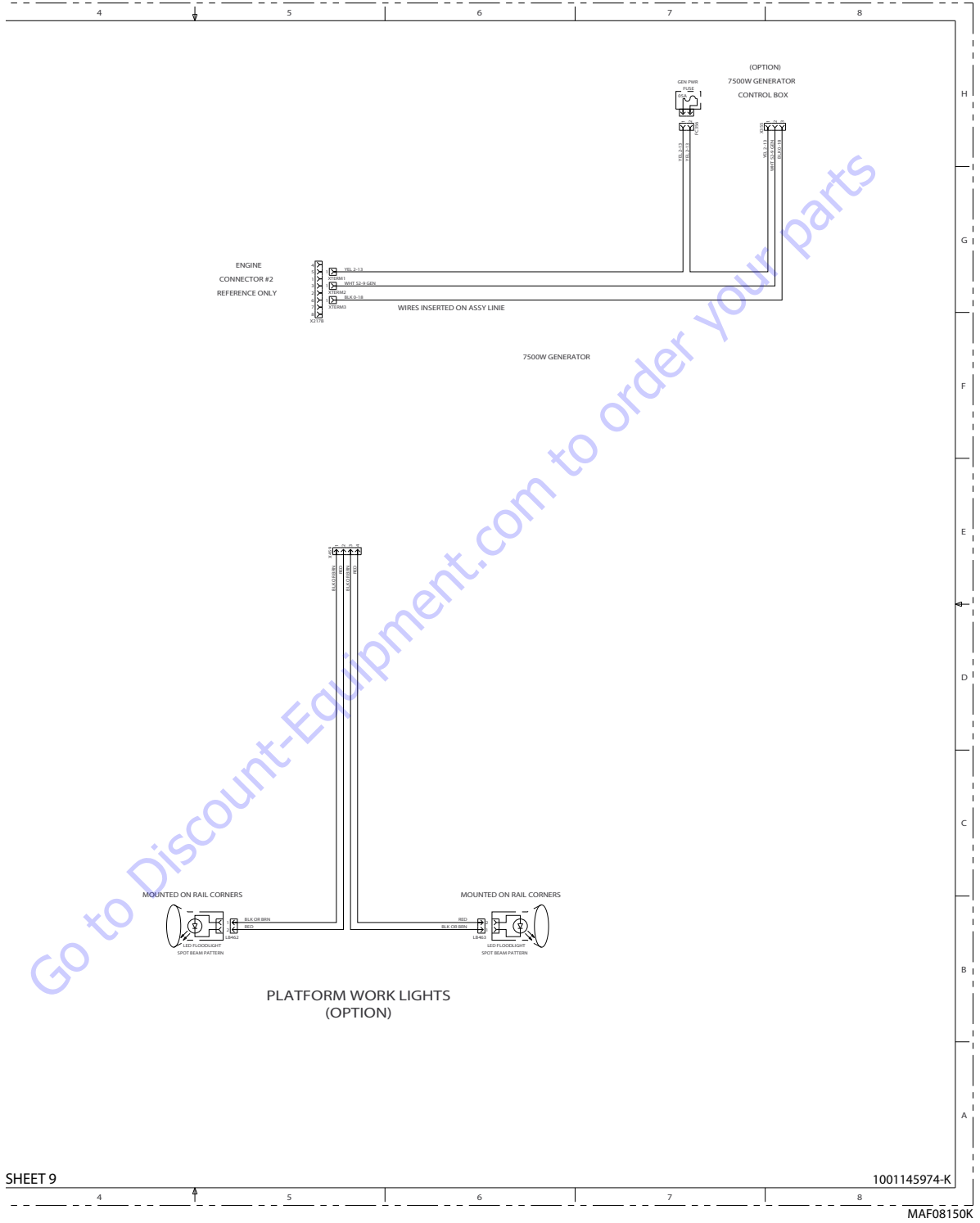


Figure 7-111. Electrical Schematic (SN 0300243455 to Present) - Sheet 17 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

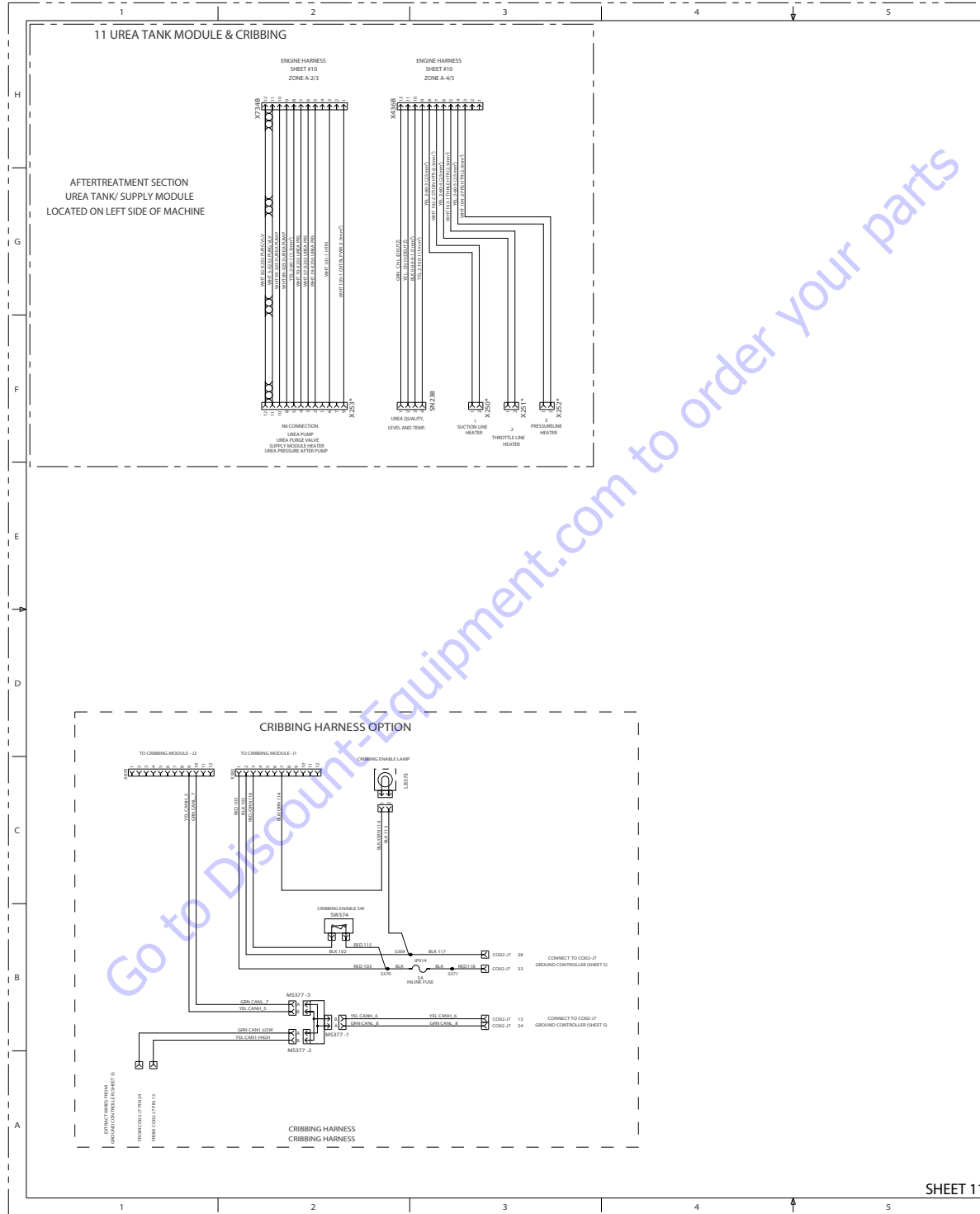


Figure 7-114. Electrical Schematic (SN 0300243455 to Present) - Sheet 20 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

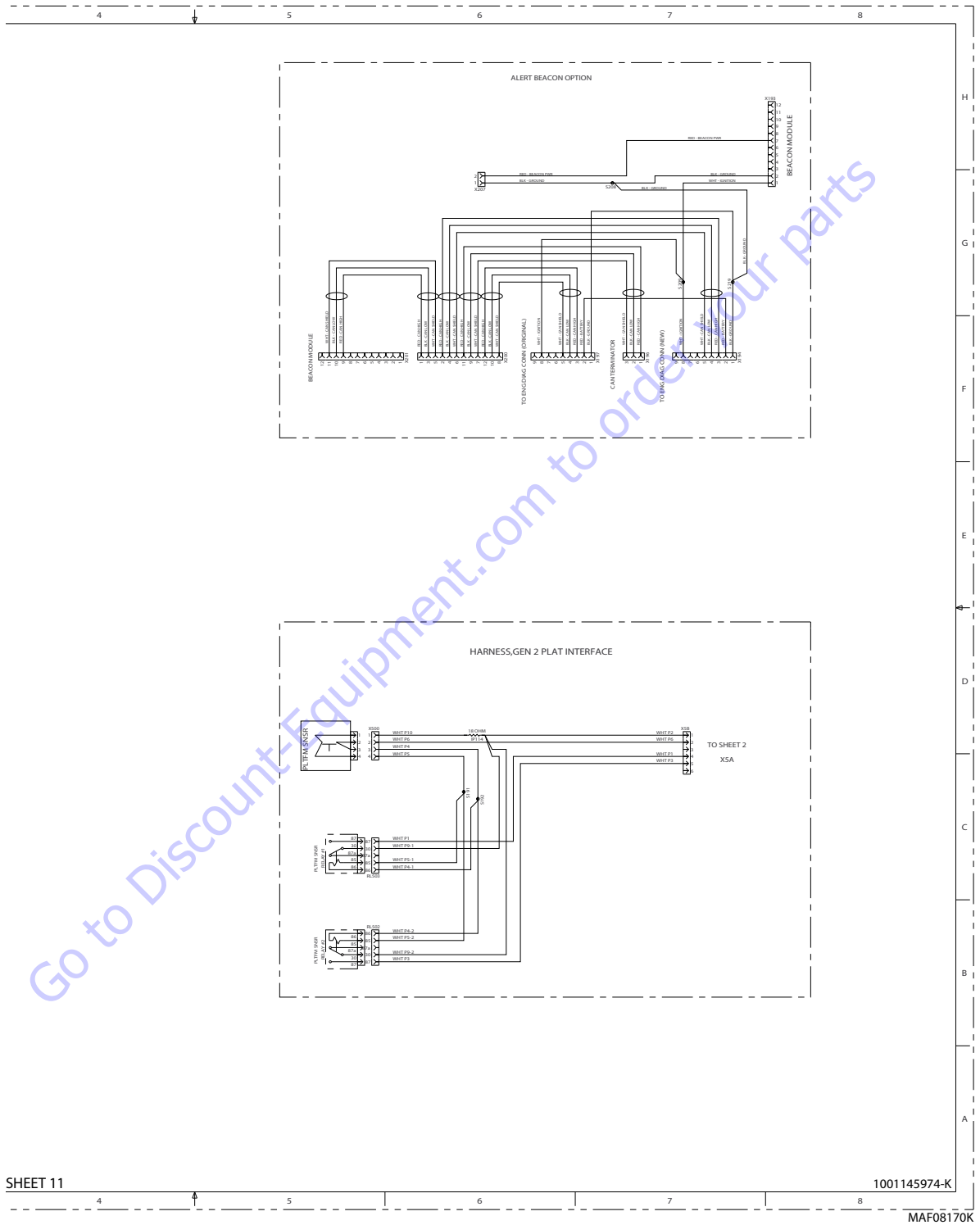


Figure 7-115. Electrical Schematic (SN 0300243455 to Present) - Sheet 21 of 21

PARTS FINDER

Search Website
by Part Number



Search Manual
Library For Parts
Manual & Lookup Part
Numbers – Purchase
or Request Quote

Can't Find Part or
Manual? Request Help
by Manufacturer,
Model & Description

Discount-Equipment.com is your online resource for quality parts & equipment.

Florida: **561-964-4949** Outside Florida TOLL FREE: **877-690-3101**

Need parts?

Click on this link: <http://www.discount-equipment.com/category/5443-parts/> and choose one of the options to help get the right parts and equipment you are looking for. Please have the machine model and serial number available in order to help us get you the correct parts. If you don't find the part on the website or on one of the online manuals, please fill out the request form and one of our experienced staff members will get back to you with a quote for the right part that your machine needs.

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, , Stow, Wacker, Sakai, Mi-T- M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, Barreto, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment, ,AMida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, Small Line, Wanco, Yanmar



3121619



An Oshkosh Corporation Company



www.Discount-Equipment.com

Go to Discount-Equipment.com to order your parts