

SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS

SW140					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	5-3 ROTATE RIGHT	18 AWG	GXL	XCO69-J4 (18)
2	WHT	5-27	18 AWG	GXL	SW141 (2)
2	WHT	5-28	18 AWG	GXL	SW142 (2)
3	WHT	5-4 ROTATE LEFT	18 AWG	GXL	XCO69-J4 (6)
4					
5					
6					

SW141					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	5-2 TELE OUT	18 AWG	GXL	XCO69-J4 (30)
2	WHT	5-26 SWITCH POWER	18 AWG	GXL	XCO69-J4 (25)
2	WHT	5-27	18 AWG	GXL	SW140 (2)
3	WHT	5-1 TELE IN	18 AWG	GXL	XCO69-J4 (7)
4					
5					
6					

SW144					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	5-10 JIB UP	18 AWG	GXL	XCO69-J4 (19)
2	WHT	5-30	18 AWG	GXL	SW143 (2)
2	WHT	5-31	18 AWG	GXL	SW145 (2)
3	WHT	5-11 JIB DOWN	18 AWG	GXL	XCO69-J4 (8)
4					
5					
6					

SW145					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	5-12 MAIN LIFT UP	18 AWG	GXL	XCO69-J4 (23)
2	WHT	5-31	18 AWG	GXL	SW144 (2)
2	WHT	5-32	18 AWG	GXL	SW146 (2)
3	WHT	5-13 MAIN LIFT DOWN	18 AWG	GXL	XCO69-J4 (33)
4					
5					
6					

SW142					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	5-5 LEVEL UP	18 AWG	GXL	XCO69-J4 (17)
2	WHT	5-28	18 AWG	GXL	SW140 (2)
2	WHT	5-29	18 AWG	GXL	SW143 (2)
3	WHT	5-6 LEVEL DOWN	18 AWG	GXL	XCO69-J4 (5)
4					
5					
6					

SW143					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	5-9 IGNITION START	18 AWG	GXL	XCO69-J4 (4)
2	WHT	5-29	18 AWG	GXL	SW142 (2)
2	WHT	5-30	18 AWG	GXL	SW144 (2)
3	WHT	5-8 AUX POWER	18 AWG	GXL	XCO69-J4 (16)
4					
5					
6					

SW146					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	5-14 SWING RIGHT	18 AWG	GXL	XCO69-J4 (35)
2	WHT	5-32	18 AWG	GXL	SW145 (2)
3	WHT	5-15 SWING LEFT	18 AWG	GXL	XCO69-J4 (34)
4					
5					
6					

GD486-J1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2					
3					
4	BLK	000-50-2 GND	18 AWG	GXL	XCO69-J4 (32)
5	WHT	5-36 LO LVL FUEL	18 AWG	GXL	XCO69-J4 (13)
6					

GD486-J2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2					
3	WHT	5-24 GLOW PLUG	18 AWG	GXL	XCO69-J4 (3)
4					
5					
6	BLK	000-50-1 GND	18 AWG	GXL	XCO69-J4 (31)

GD486-J3					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	5-23 CRIBBING ENABLED	18 AWG	GXL	XCO69-J4 (1)
2					
3					
4					
5					
6	WHT	5-25 PLATFORM OVERLOAD	18 AWG	GXL	XCO69-J4 (14)

GD486-J4					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	5-22 NO CHARGE	18 AWG	GXL	XCO69-J4 (26)
2	WHT	5-20 ENGINE LOW OIL PRES	18 AWG	GXL	XCO69-J4 (29)
3	WHT	5-21 ENGINE HIGH TEMP	18 AWG	GXL	XCO69-J4 (28)
4					
5	WHT	5-35 SYSTEM FAULT	18 AWG	GXL	XCO69-J4 (2)
6					

Figure 7-69. Ground Control Panel Harness - Sheet 2 of 5

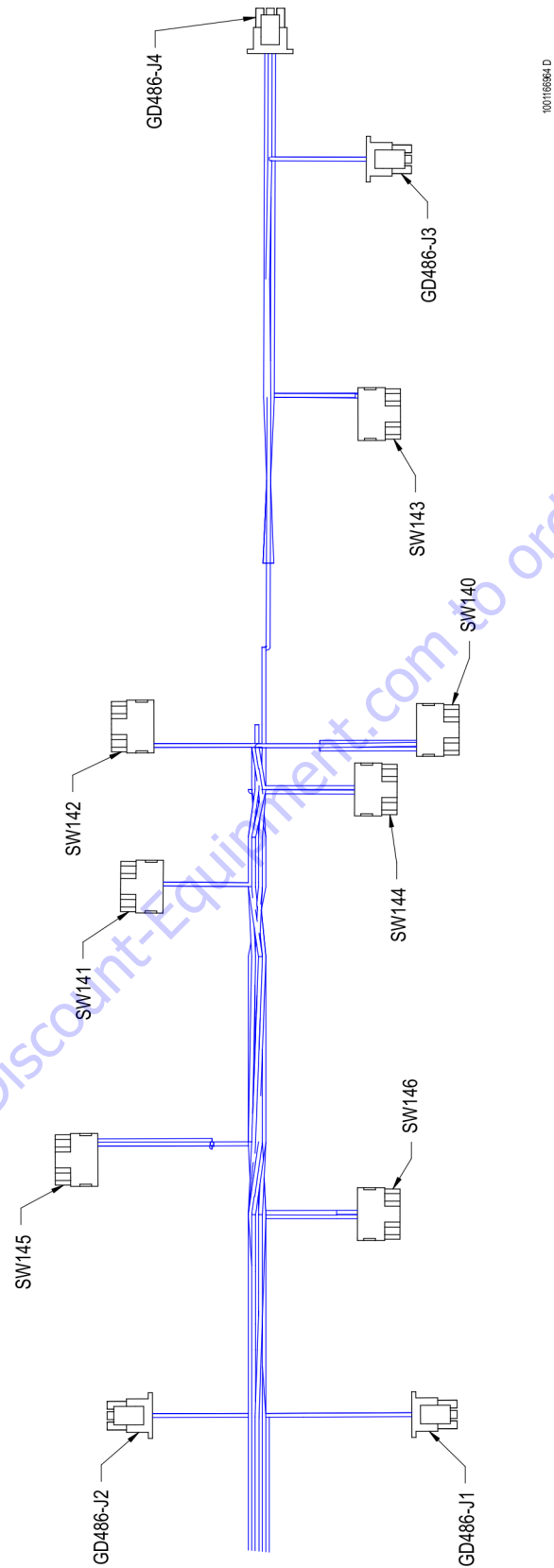


Figure 7-70. Ground Control Panel Harness - Sheet 3 of 5

SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS

WIRE NO	COLOR	WIRE GAUGE	JACKET	LENGTH (mm)	FROM		TO	
					REFERENCE	PIN	REFERENCE	PIN
000-50-1 GND	BLK	18	GXL	1730	XCO69-J4	31	GD486-J2	6
000-50-2 GND	BLK	18	GXL	1751	XCO69-J4	32	GD486-J1	4
5-10 JIB UP	WHT	18	GXL	2121	XCO69-J4	19	SW144	1
5-11 JIB DOWN	WHT	18	GXL	2101	XCO69-J4	8	SW144	3
5-12 MAIN LIFT UP	WHT	18	GXL	1906	XCO69-J4	23	SW145	1
5-13 MAIN LIFT DOWN	WHT	18	GXL	1904	XCO69-J4	33	SW145	3
5-14 SWING RIGHT	WHT	18	GXL	1835	XCO69-J4	35	SW146	1
5-15 SWING LEFT	WHT	18	GXL	1850	XCO69-J4	34	SW146	3
5-1 TELE IN	WHT	18	GXL	2057	XCO69-J4	7		
5-20 ENGINE LOW OIL PRES	WHT	18	GXL	2424	XCO69-J4	29	GD486-J4	2
5-21 ENGINE HIGH TEMP	WHT	18	GXL	2445	XCO69-J4	28	GD486-J4	3
5-22 NO CHARGE	WHT	18	GXL	2445	XCO69-J4	26	GD486-J4	1
5-23 CRIBBING ENABLED	WHT	18	GXL	2434	XCO69-J4	1	GD486-J3	1
5-24 GLOW PLUG	WHT	18	GXL	1720	XCO69-J4	3	GD486-J2	3
5-25PLATFORM OVERLOAD	WHT	18	GXL	2440	XCO69-J4	14	GD486-J3	6
5-26SWITCH POWER	WHT	18	GXL	2053	XCO69-J4	25	SW141	2
5-27	WHT	18	GXL	407	SW141	2	SW140	2
5-28	WHT	18	GXL	159	SW140	2	SW142	2
5-29	WHT	18	GXL	210	SW142	2	SW143	2
5-2 TELE OUT	WHT	18	GXL	2000	XCO69-J4	30		
5-30	WHT	18	GXL	288	SW143	2	SW144	2
5-31	WHT	18	GXL	342	SW144	2	SW145	2
5-32	WHT	18	GXL	178	SW145	2	SW146	2
5-35 SYSTEM FAULT	WHT	18	GXL	2435	XCO69-J4	2	GD486-J4	5
5-36 LO LVL FUEL	WHT	18	GXL	1754	XCO69-J4	13	GD486-J1	5
5-3 ROTATE RIGHT	WHT	18	GXL	2146	XCO69-J4	18	SW140	1
5-4 ROTATE LEFT	WHT	18	GXL	2126	XCO69-J4	6	SW140	3
5-5 LEVEL UP	WHT	18	GXL	2140	XCO69-J4	17	SW142	1
5-6 LEVEL DOWN	WHT	18	GXL	2142	XCO69-J4	5	SW142	3
5-8 AUX POWER	WHT	18	GXL	2278	XCO69-J4	16	SW143	3
5-9 IGNITION START	WHT	18	GXL	2271	XCO69-J4	4	SW143	1

Figure 7-71. Ground Control Panel Harness - Sheet 4 of 5

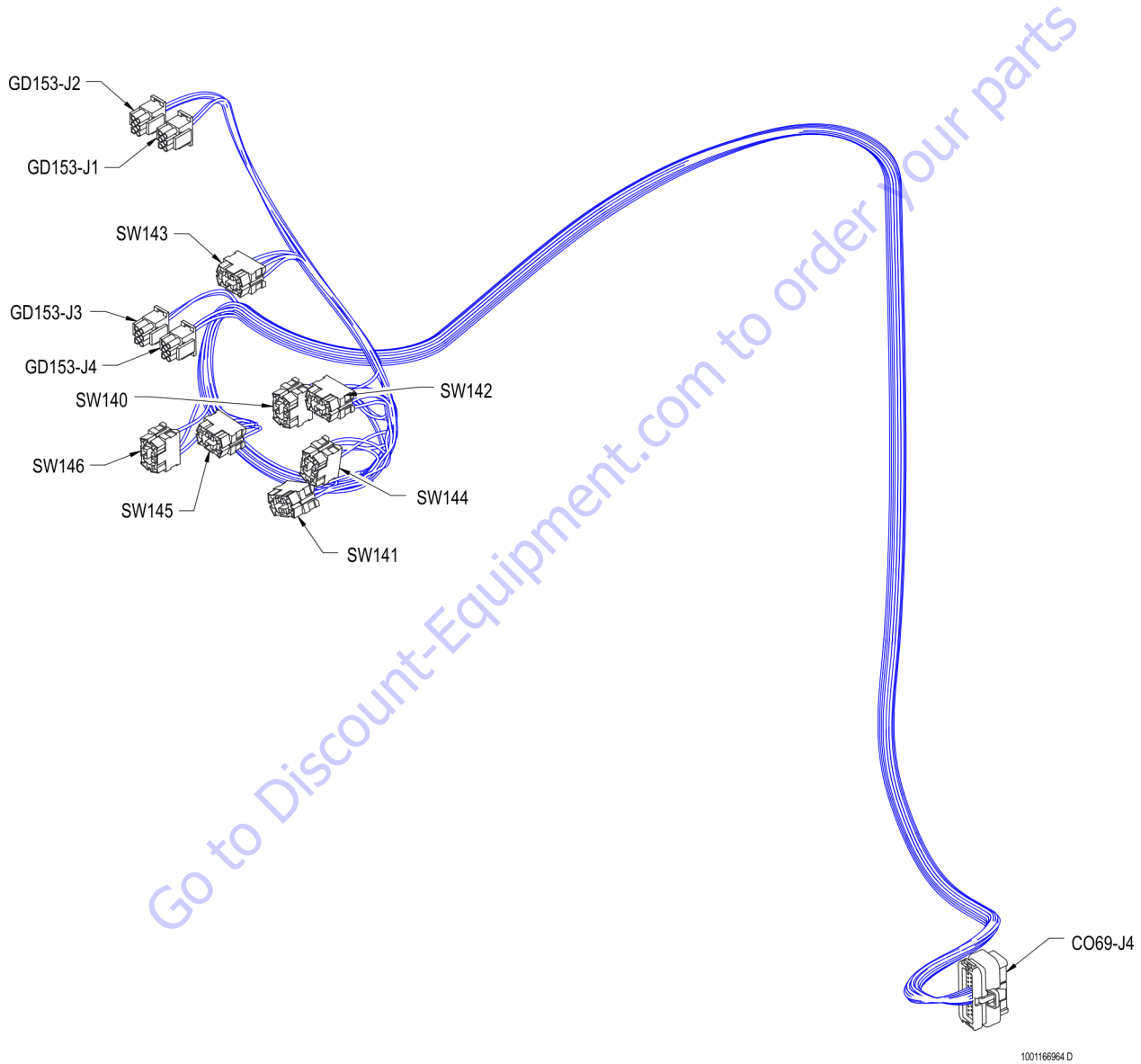


Figure 7-72. Ground Control Panel Harness - Sheet 5 of 5

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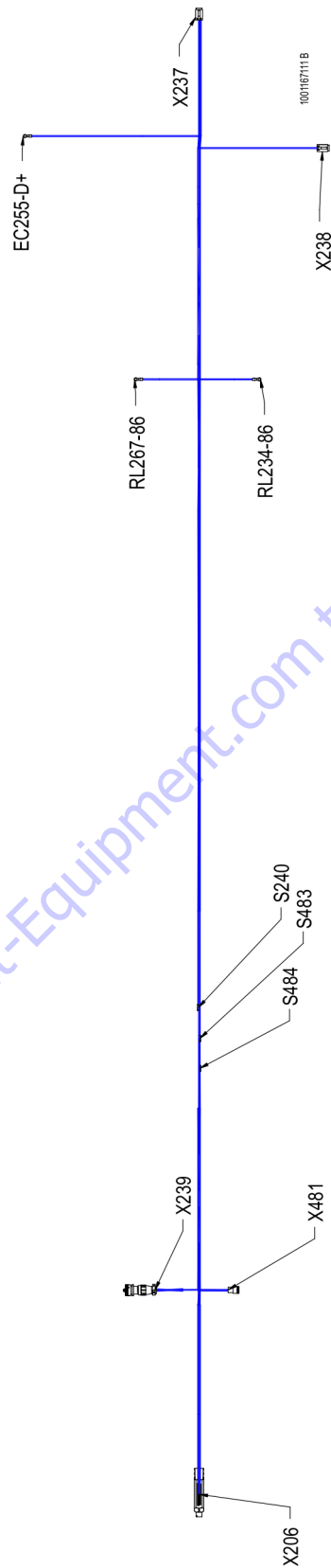


Figure 7-73. Deutz T4j Harness - Sheet 1 of 4

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SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS

X206					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	000-6-1 GROUND	16 AWG	TFFN	X238 (2)
2	BLK	000-6-3	18 AWG	GXL	X239 (B)
3					
4					
5					
6					
7					
8					
9					
10	WHT	6-23	18 AWG	GXL	X239 (L)
11	WHT	6-23	18 AWG	GXL	X239 (K)
12	RED	CABLE	18 AWG	CABLE	S484 (2)
13	BLK	CABLE CAN LO	18 AWG	CABLE	S483 (2)
14	WHT	6-15 DIAGNOSTIC	18 AWG	GXL	S240 (2)
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

X238					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2	BLK	000-6-1 GROUND	16 AWG	TFFN	X206 (1)
3					
4	WHT	6-18 GLOW	18 AWG	GXL	RL234-86 (1)
5					
6					
7					
8					

X481					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	RED	CABLE	18 AWG	CABLE	S484 (1)
B	BLK	CABLE	18 AWG	CABLE	S483 (2)
C	SHIELD	6-50	18 AWG	SHLD	X237 (6)

S484					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	CABLE CAN HI	18 AWG	CABLE	X237 (3)
1	RED	CABLE	18 AWG	CABLE	X481 (A)
2	RED	CABLE	18 AWG	CABLE	X206 (12)

X239					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	WHT	6-17 DIAGNOSTIC	18 AWG	GXL	S240 (2)
B	BLK	000-6-3	18 AWG	GXL	X206 (2)
K	WHT	6-23	18 AWG	GXL	X206 (11)
L	WHT	6-23	18 AWG	GXL	X206 (10)

S240					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	6-16	18 AWG	GXL	X237 (1)
2	WHT	6-15 DIAGNOSTIC	18 AWG	GXL	X206 (14)
2	WHT	6-17 DIAGNOSTIC	18 AWG	GXL	X239 (A)

RL267-86					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	6-25	14 AWG	GXL	X237 (2)

S483					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	CABLE CAN LO	18 AWG	CABLE	X237 (4)
2	BLK	CABLE	18 AWG	CABLE	X481 (B)
2	BLK	CABLE CAN LO	18 AWG	CABLE	X206 (13)

RL234-86					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	6-18 GLOW	18 AWG	GXL	X238 (4)

X237					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	6-16	18 AWG	GXL	S240 (1)
2	WHT	6-25	14 AWG	GXL	RL267-86 (1)
3	RED	CABLE CAN HI	18 AWG	CABLE	S484 (1)
4	BLK	CABLE CAN LO	18 AWG	CABLE	S483 (1)
5	RED	6-51 16AWG	16 AWG	GXL	EC255-D+ (1) ***
6	SHIELD	6-50	18 AWG	SHLD	X481 (C)

EC255-D+					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	6-51 16AWG	16 AWG	GXL	X237 (5)

Figure 7-74. Deutz T4i Harness - Sheet 2 of 4

WIRE NO	COLOR	WIRE GAUGE	JACKET	LENGTH (mm)	FROM		TO	
					REFERENCE	PIN	REFERENCE	PIN
000-6-1	BLK	16	TFFN	3809	X238	2	X206	1
000-6-3	BLK	18	GXL	582	X239	B	X206	2
6-15	WHT	18	GXL	1267	X206	14	S240	2
6-16	WHT	18	GXL	2574	S240	1	X237	1
6-17	WHT	18	GXL	846	S240	2	X239	A
6-18	WHT	18	GXL	1054	X238	4	RL234-86	1
6-23	WHT	18	GXL	588	X239	K	X206	11
6-23	WHT	18	GXL	584	X239	L	X206	10
6-25	WHT	14	GXL	1091	X237	2	RL267-86	1
6-50	SHIELD	18	SHLD	3389	X237	6	X481	C
6-51	RED	16	GXL	739	X237	5	EC255-D+	1
CABLE CAN LO	BLK	18	CABLE	2661	X237	4	S483	1
CABLE CAN HI	RED	18	CABLE	2739	X237	3	S484	1
CABLE	RED	18	CABLE	662	S484	1	X481	A
CABLE	BLK	18	CABLE	728	X481	B	S483	2
CABLE	RED	18	CABLE	1110	S484	2	X206	12
CABLE CAN LO	BLK	18	CABLE	1189	X206	13	S483	2

Figure 7-75. Deutz T4i Harness - Sheet 3 of 4





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Figure 7-76. Deutz T4i Harness - Sheet 4 of 4

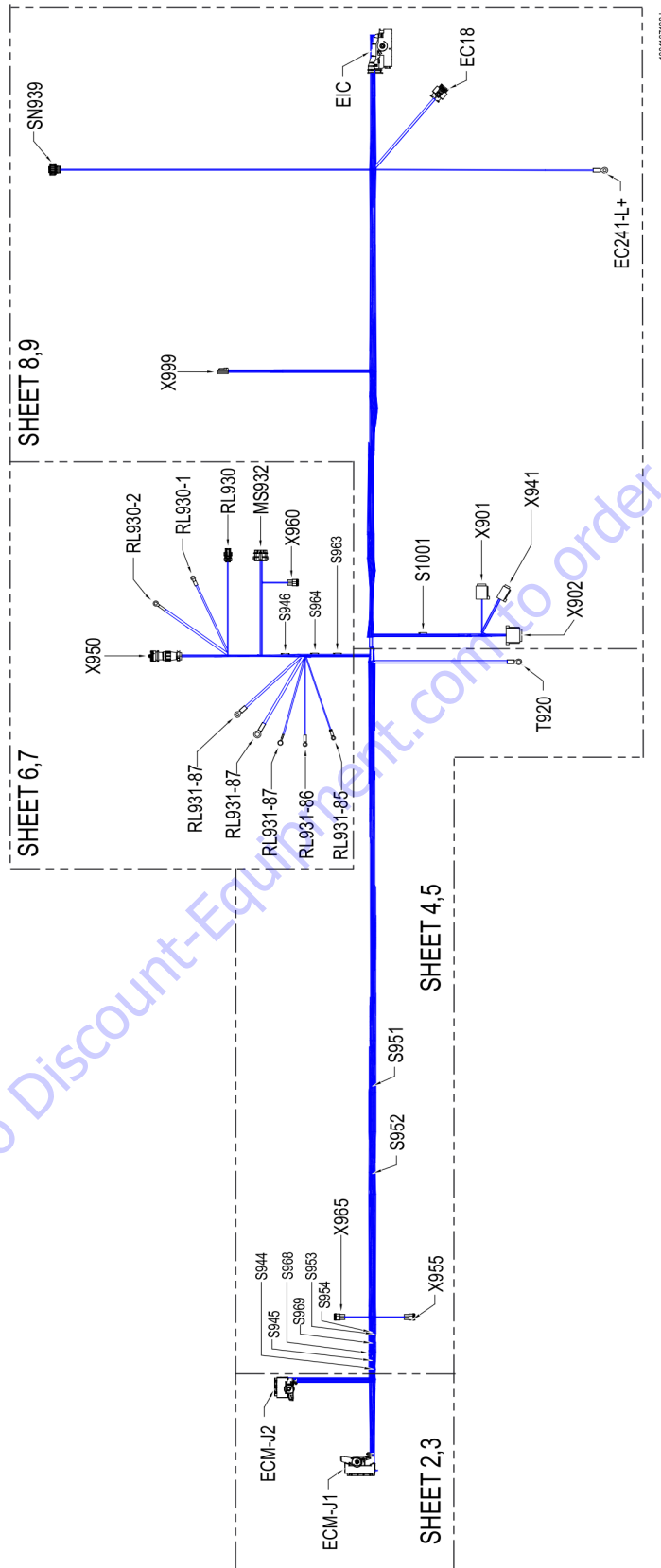


Figure 7-77. Deutz T4F Harness - Sheet 1 of 12

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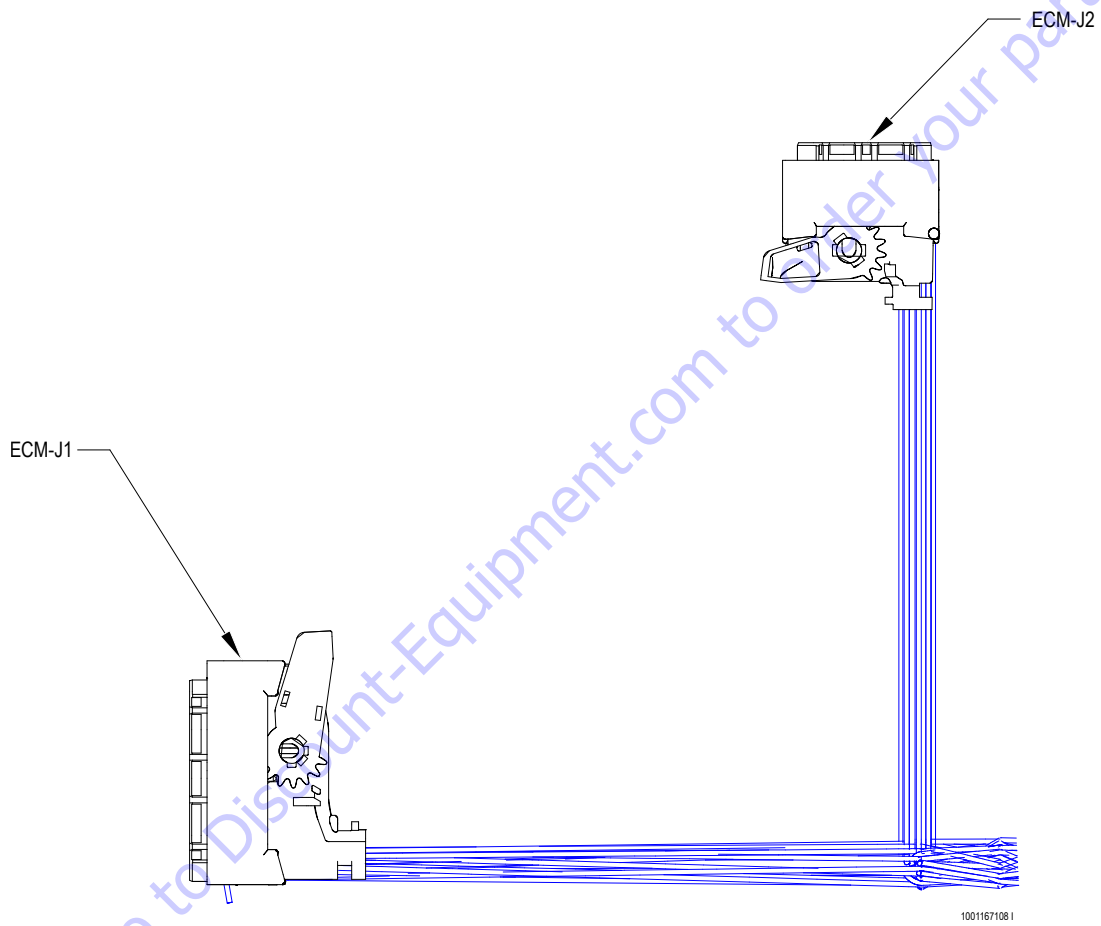


Figure 7-78. Deutz T4F Harness - Sheet 3 of 11

SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS

ECM-J1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	148-1 ECM PWR	2.5 mm <sup>2</sup>	FLRYW	S944 (2)
2	BLK	148-2 ECM GND	2.5 mm <sup>2</sup>	FLRYW	S945 (2)
3	RED	148-3 ECM PWR	2.5 mm <sup>2</sup>	FLRYW	S944 (2)
4	BLK	148-4 ECM GND	2.5 mm <sup>2</sup>	FLRYW	S945 (2)
5	RED	148-5 ECM PWR	2.5 mm <sup>2</sup>	FLRYW	S944 (2)
6	BLK	148-6 ECM GND	2.5 mm <sup>2</sup>	FLRYW	S945 (2)
7					
8					
9					
10					
11					
12					
13	BLK	148-13 COOLANT LEVEL SIG	0.75 mm <sup>2</sup>	FLRYW	SN939 (3)
14					
15	BLK	148-15-68 CLUTCH SWITCH	0.75 mm <sup>2</sup>	FLRYW	ECM-J1 (68)
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26	BLK	148-26 FUEL PUMP RELAY CONTROL GND	0.75 mm <sup>2</sup>	FLRYW	RL930 (2)
27					
28	BLK	148-28 START RTN	0.75 mm <sup>2</sup>	FLRYW	EIC (2)
29	BLK	148-29 COOLANT LEVEL PWR	0.75 mm <sup>2</sup>	FLRYW	SN939 (1)
30					
31					
32					
33					
34					
35	BLK	148-35-2 START	0.75 mm <sup>2</sup>	FLRYW	S1001 (1)
36					
37					
38	BLK	148-38 THROTTLE FLAP 4	0.75 mm <sup>2</sup>	FLRYW	EIC (52)
39					
40					
41					
42					
43					
44	BLK	148-44 EXHAUST GAS RECIRCULATION	0.75 mm <sup>2</sup>	FLRYW	EIC (50)
45					
46					
47					
48					
49					
50					
51					
52					
53	GRN	CAN 2 LO DIAG CAN LOW	18 AWG	J1939 CABLE	S968 (1)
54	YEL	CAN 1 HI CUSTOMER CAN HIGH	18 AWG	J1939 CABLE	S953 (1)
55					
56	BLK	148-56 AIR INLET TEMP	0.75 mm <sup>2</sup>	FLRYW	EIC (34)
57	BLK	148-57 WATER IN FUEL SW RTN	0.75 mm <sup>2</sup>	FLRYW	X941 (2)
58					
59					
60					
61	BLK	148-61 FUEL LOW PRESSURE	0.75 mm <sup>2</sup>	FLRYW	EIC (17)
62					
63					
64	BLK	148-64 WATER IN FUEL SW	0.75 mm <sup>2</sup>	FLRYW	X941 (1)
65					
66					
67					
68	BLK	148-68 CLUTCH SWITCH	0.75 mm <sup>2</sup>	FLRYW	ECM-J1 (15)
69					
70					
71					
72	BLK	148-72 THROTTLE FLAP 3	0.75 mm <sup>2</sup>	FLRYW	EIC (49)
73	BLK	148-73 START SIG	0.75 mm <sup>2</sup>	FLRYW	EIC (3)
74					
75	YEL	CAN 2 HI DIAG CAN HIGH	18 AWG	J1939 CABLE	S969 (1)
76	GRN	CAN 1 LO CUSTOMER CAN LOW	18 AWG	J1939 CABLE	S954 (1)
77					
78					
79					
80					
81					
82	BLK	148-82 EXHAUST GAS RECIRCULATION	0.75 mm <sup>2</sup>	FLRYW	EIC (51)
83					
84					
85	BLK	148-85 EXHAUST GAS RECIRCULATION	0.75 mm <sup>2</sup>	FLRYW	EIC (46)
86					
87	BLK	148-87 COOLANT LEVEL GND	0.75 mm <sup>2</sup>	FLRYW	SN939 (2)
88	BLK	148-88 IGNITION	0.75 mm <sup>2</sup>	FLRYW	S946 (2)
89					
90					
91					
92					
93					
94					
NC	SHLD	CAN 1 SHLDCUSTOMER CAN SHIELD	18 AWG	J1939 CABLE	X901 (6)

ECM-J2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2	BLK	248-2 INJECTOR 3	1.5 mm <sup>2</sup>	FLRYW	EIC (61)
3	BLK	248-3 INJECTOR 2	1.5 mm <sup>2</sup>	FLRYW	EIC (41)
4	BLK	248-4 MPROP ACTUATOR	1.5 mm <sup>2</sup>	FLRYW	EIC (19)
5	BLK	248-5 MPROP ACTUATOR	1.5 mm <sup>2</sup>	FLRYW	EIC (20)
6					
7	BLK	248-7 RAIL PRESSURE FUEL	0.75 mm <sup>2</sup>	FLRYW	EIC (32)
8					
9					
10					
11					
12					
13					
14					
15					
16	BLK	248-16 INJECTOR 1	1.5 mm <sup>2</sup>	FLRYW	EIC (35)
17					
18	BLK	248-18 INJECTOR 4	1.5 mm <sup>2</sup>	FLRYW	EIC (37)
19	BLK	248-19 EXHAUST GAS RECIRCULATION	1.5 mm <sup>2</sup>	FLRYW	EIC (47)
20	BLK	248-20 EXHAUST GAS RECIRCULATION	1.5 mm <sup>2</sup>	FLRYW	EIC (48)
21					
22					
23	BLK	248-23 GLOW SENSE	0.75 mm <sup>2</sup>	FLRYW	MS932 (E)
24	BLK	248-24 BOOST PRESSURE / TEMP	0.75 mm <sup>2</sup>	FLRYW	EIC (22)
25	BLK	248-25 RAIL PRESSURE FUEL	0.75 mm <sup>2</sup>	FLRYW	EIC (31)
26	BLK	248-26 RAIL PRESSURE FUEL	0.75 mm <sup>2</sup>	FLRYW	EIC (25)
27	BLK	248-27 BOOST PRESSURE / TEMP	0.75 mm <sup>2</sup>	FLRYW	EIC (29)
28	BLK	248-28 COOLING TEMPERATURE	0.75 mm <sup>2</sup>	FLRYW	EIC (24)
29	BLK	248-29 OIL PRESSURE	0.75 mm <sup>2</sup>	FLRYW	EIC (27)
30					
31					
32	BLK	248-32 INJECTOR 3	1.5 mm <sup>2</sup>	FLRYW	EIC (38)
33	BLK	248-33 INJECTOR 1	1.5 mm <sup>2</sup>	FLRYW	EIC (62)
34					
35	BLK	248-35 GLOW RELAY CONTROL GND	0.75 mm <sup>2</sup>	FLRYW	RL931-85 (1)
36					
37	BLK	248-37 ENGINE SPEED CAMSHAFT	18 AWG	CABLE	EIC (14)
38	SHLD	248-38 ENGINE SPEED CRANKSHAFT	18 AWG	CABLE	EIC (1)
39	BLK	248-39 ENGINE SPEED CRANKSHAFT	18 AWG	CABLE	EIC (15)
40	BLK	248-40 AIR INLET TEMP	0.75 mm <sup>2</sup>	FLRYW	EIC (28)
41					
42					
43	BLK	248-43 OIL PRESSURE	0.75 mm <sup>2</sup>	FLRYW	EIC (23)
44	BLK	248-44 OIL PRESSURE	0.75 mm <sup>2</sup>	FLRYW	EIC (26)
45					
46	BLK	248-46 INJECTOR 2	1.5 mm <sup>2</sup>	FLRYW	EIC (40)
47					
48	BLK	248-48 INJECTOR 4	1.5 mm <sup>2</sup>	FLRYW	EIC (42)
49					
50					
51					
52	WHT	248-52 ENGINE SPEED CAMSHAFT	18 AWG	CABLE	EIC (13)
53	SHLD	248-53 ENGINE SPEED CAMSHAFT	18 AWG	CABLE	EIC (9)
54	WHT	248-54 ENGINE SPEED CRANKSHAFT	18 AWG	CABLE	EIC (21)
55					
56					
57					
58					
59					
60					

Figure 7-79. Deutz T4F Harness - Sheet 2 of 11

**SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS**

S951					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN 1 HI CUSTOMER CAN HIGH	18 AWG	J1939 CABLE	S953 (2)
2	YEL	CAN 1 HI CUSTOMER CAN HIGH	18 AWG	J1939 CABLE	X901 (3)
2	YEL	CAN 1 HI CUSTOMER CAN HIGH	18 AWG	J1939 CABLE	X950 (M)

S952					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	GRN	CAN 1 LO CUSTOMER CAN LOW	18 AWG	J1939 CABLE	S954 (2)
2	GRN	CAN 1 LO CUSTOMER CAN LO	18 AWG	J1939 CABLE	X901 (4)
2	GRN	CAN 1 LO CUSTOMER CAN LO	18 AWG	J1939 CABLE	X950 (F)

S968					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	GRN	CAN 2 LO DIAG CAN LOW	18 AWG	J1939 CABLE	ECM-J1 (53)
2	GRN	CAN 2 LO DIAG CAN LOW	18 AWG	J1939 CABLE	S963 (1)
2	GRN	CAN 2 LO DIAG CAN LOW	18 AWG	J1939 CABLE	X965 (B)

S969					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN 2 HI DIAG CAN HIGH	18 AWG	J1939 CABLE	ECM-J1 (75)
2	YEL	CAN 2 HI DIAG CAN HIGH	18 AWG	J1939 CABLE	S964 (1)
2	YEL	CAN 2 HI DIAG CAN HIGH	18 AWG	J1939 CABLE	X965 (A)

S953					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN 1 HI CUSTOMER CAN HIGH	18 AWG	J1939 CABLE	ECM-J1 (54)
2	YEL	CAN 1 HI CUSTOMER CAN HIGH	18 AWG	J1939 CABLE	S951 (1)
2	YEL	CAN 1 HI CUSTOMER CAN HIGH	18 AWG	J1939 CABLE	X955 (A)

S954					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	GRN	CAN 1 LO CUSTOMER CAN LOW	18 AWG	J1939 CABLE	ECM-J1 (76)
2	GRN	CAN 1 LO CUSTOMER CAN LOW	18 AWG	J1939 CABLE	S952 (1)
2	GRN	CAN 1 LO CUSTOMER CAN LOW	18 AWG	J1939 CABLE	X955 (B)

X955					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CAN 1 HI CUSTOMER CAN HIGH	18 AWG	J1939 CABLE	S953 (2)
B	GRN	CAN 1 LO CUSTOMER CAN LOW	18 AWG	J1939 CABLE	S954 (2)
C					

X965					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CAN 2 HI DIAG CAN HIGH	18 AWG	J1939 CABLE	S969 (2)
B	GRN	CAN 2 LO DIAG CAN LOW	18 AWG	J1939 CABLE	S968 (2)
C					

T920					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
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	000-48-2 ENG GND	18 AWG	GXL	X950 (B)
1	BLK	000-48-3 GND	18 AWG	GXL	X999 (2)

S944					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-148-135 ECM PWR	8 AWG	GXL	RL930-2 (1)
2	RED	148-1 ECM PWR	2.5 mm <sup>2</sup>	FLRYW	ECM-J1 (1)
2	RED	148-3 ECM PWR	2.5 mm <sup>2</sup>	FLRYW	ECM-J1 (3)
2	RED	148-5 ECM PWR	2.5 mm <sup>2</sup>	FLRYW	ECM-J1 (5)

S945					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	000-148-246 ECM GND	8 AWG	GXL	T920 (1)
2	BLK	148-2 ECM GND	2.5 mm <sup>2</sup>	FLRYW	ECM-J1 (2)
2	BLK	148-4 ECM GND	2.5 mm <sup>2</sup>	FLRYW	ECM-J1 (4)
2	BLK	148-6 ECM GND	2.5 mm <sup>2</sup>	FLRYW	ECM-J1 (6)

**Figure 7-80. Deutz T4F Harness - Sheet 4 of 11**

**SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS**

X950					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	2-48-2 IGNITION	18 AWG	GXL	S946 (1)
B	BLK	000-48-2 ENG GND	18 AWG	GXL	T920 (1)
C					
D					
E					
F	GRN	CAN 1 LOCUSTOMER CAN LO	18 AWG	J1939 CABLE	S952 (2)
G	GRN	CAN 2 LO DIAG CAN LOW	18 AWG	J1939 CABLE	S963 (2)
H	YEL	CAN 2 HI DIAG CAN HIGH	18 AWG	J1939 CABLE	S964 (2)
J					
K					
L					
M	YEL	CAN 1 HI CUSTOMER CAN HIGH	18 AWG	J1939 CABLE	S951 (2)

S946					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-48-1 IGNITION	16 AWG	GXL	MS932 (H)
1	YEL	2-48-2 IGNITION	18 AWG	GXL	X950 (A)
2	YEL	2-48-3 IGNITION	18 AWG	GXL	RL931-86 (1)
2	YEL	2-48-4 IGNITION	18 AWG	GXL	RL930 (1)
2	BLK	148-88 IGNITION	0.75 mm <sup>2</sup>	FLRYW	ECM-J1 (88)

MS932					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A					
B					
C					
D					
E	BLK	248-23 GLOW SENSE	0.75 mm <sup>2</sup>	FLRYW	ECM-J2 (23)
F	ORG	248-23-1 GLOW SENSE	18 AWG	GXL	RL931-87 (1)
G	YEL	2-1-99 IGNITION	18 AWG	GXL	X902 (1)
H	YEL	2-48-1 IGNITION	16 AWG	GXL	S946 (1)

S964					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN 2 HI DIAG CAN HIGH	18 AWG	J1939 CABLE	S969 (2)
2	YEL	CAN 2 HI DIAG CAN HIGH	18 AWG	J1939 CABLE	X950 (H)
2	YEL	CAN 2 HI DIAG CAN HIGH	18 AWG	J1939 CABLE	X960 (A)

S963					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	GRN	CAN 2 LO DIAG CAN LOW	18 AWG	J1939 CABLE	S968 (2)
2	GRN	CAN 2 LO DIAG CAN LOW	18 AWG	J1939 CABLE	X950 (G)
2	GRN	CAN 2 LO DIAG CAN LOW	18 AWG	J1939 CABLE	X960 (B)

RL930					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-48-4	18 AWG	GXL	S946 (2)
2	BLK	148-26	0.75 mm <sup>2</sup>	FLRYW	ECM-J1 (26)

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

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

RL931-85					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	248-35 GLOW RELAY CONTROL GND	0.75 mm <sup>2</sup>	FLRYW	ECM-J2 (35)

RL931-87					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	ORG	248-23-1 GLOW SENSE	18 AWG	GXL	MS932 (F)

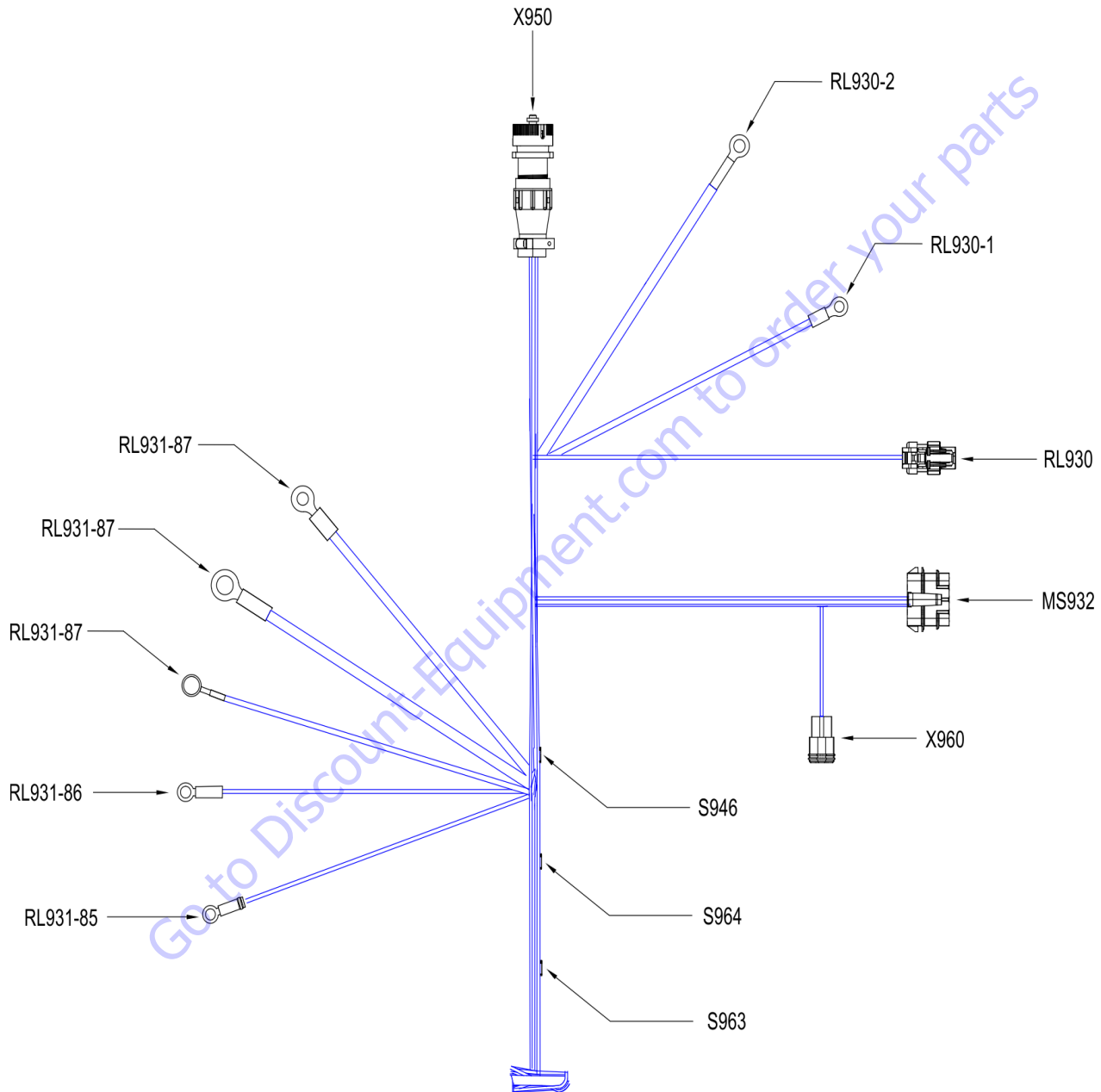
RL931-87					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	48-13 GLOW	8 AWG	GXL	EC18 (1)

RL931-87					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	48-14 GLOW	8 AWG	GXL	EC18 (2)

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

X960					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CAN 2 HI DIAG CAN HIGH	18 AWG	J1939 CABLE	S964 (2)
B	GRN	CAN 2 LO DIAG CAN LOW	18 AWG	J1939 CABLE	S963 (2)
C					

**Figure 7-81. Deutz T4F Harness - Sheet 5 of 11**



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Figure 7-82. Deutz T4F Harness - Sheet 6 of 11



SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS

EIC					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	SHLD	248-38	18 AWG	CABLE	ECM-J2 (38)
2	BLK	148-28	0.75 mm²	FLRYW	ECM-J1 (28)
3	BLK	148-73	0.75 mm²	FLRYW	ECM-J1 (73)
4					
5					
6					
7					
8					
9	SHLD	248-53	18 AWG	CABLE	ECM-J2 (53)
10					
11					
12					
13	WHT	248-52	18 AWG	CABLE	ECM-J2 (52)
14	BLK	248-37	18 AWG	CABLE	ECM-J2 (37)
15	BLK	248-39	18 AWG	CABLE	ECM-J2 (39)
16					
17	BLK	148-61	0.75 mm²	FLRYW	ECM-J1 (61)
18					
19	BLK	248-4	1.5 mm²	FLRYW	ECM-J2 (4)
20	BLK	248-5	1.5 mm²	FLRYW	ECM-J2 (5)
21	WHT	248-54	18 AWG	CABLE	ECM-J2 (54)
22	BLK	248-24	0.75 mm²	FLRYW	ECM-J2 (24)
23	BLK	248-43	0.75 mm²	FLRYW	ECM-J2 (43)
24	BLK	248-28	0.75 mm²	FLRYW	ECM-J2 (28)
25	BLK	248-26	0.75 mm²	FLRYW	ECM-J2 (26)
26	BLK	248-44	0.75 mm²	FLRYW	ECM-J2 (44)
27	BLK	248-29	0.75 mm²	FLRYW	ECM-J2 (29)
28	BLK	248-40	0.75 mm²	FLRYW	ECM-J2 (40)
29	BLK	248-27	0.75 mm²	FLRYW	ECM-J2 (27)
30					
31	BLK	248-25	0.75 mm²	FLRYW	ECM-J2 (25)
32	BLK	248-7	0.75 mm²	FLRYW	ECM-J2 (7)
33					
34	BLK	148-56	0.75 mm²	FLRYW	ECM-J1 (56)
35	BLK	248-16	1.5 mm²	FLRYW	ECM-J2 (16)
36					
37	BLK	248-18	1.5 mm²	FLRYW	ECM-J2 (18)
38	BLK	248-32	1.5 mm²	FLRYW	ECM-J2 (32)
39					
40	BLK	248-46	1.5 mm²	FLRYW	ECM-J2 (46)
41	BLK	248-3	1.5 mm²	FLRYW	ECM-J2 (3)
42	BLK	248-48	1.5 mm²	FLRYW	ECM-J2 (48)
43					
44					
45					
46	BLK	148-85	0.75 mm²	FLRYW	ECM-J1 (85)
47	BLK	248-19	1.5 mm²	FLRYW	ECM-J2 (19)
48	BLK	248-20	1.5 mm²	FLRYW	ECM-J2 (20)
49	BLK	148-72	0.75 mm²	FLRYW	ECM-J1 (72)
50	BLK	148-44	0.75 mm²	FLRYW	ECM-J1 (44)
51	BLK	148-82	0.75 mm²	FLRYW	ECM-J1 (82)
52	BLK	148-38	0.75 mm²	FLRYW	ECM-J1 (38)
53					
54					
55					
56					
57					
58					
59					
60					
61	BLK	248-2	1.5 mm²	FLRYW	ECM-J2 (2)
62	BLK	248-33	1.5 mm²	FLRYW	ECM-J2 (33)

X999					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	148-35-3 -	18 AWG	GXL	S1001 (1)
2	BLK	000-48-3 GND	18 AWG	GXL	T920 (1)

S1001					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	148-35-2 START	0.75 mm²	FLRYW	ECM-J1 (35)
1	BLK	148-35-3 -	18 AWG	GXL	X999 (1)
2	BLK	148-35-1 START	18 AWG	GXL	X901 (2)

X941					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	148-64 WATER IN FUEL SW	0.75 mm²	FLRYW	ECM-J1 (64)
2	BLK	148-57 WATER IN FUEL SW RTN	0.75 mm²	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)

X902					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-1-99 IGNITION	18 AWG	GXL	MS932 (G)

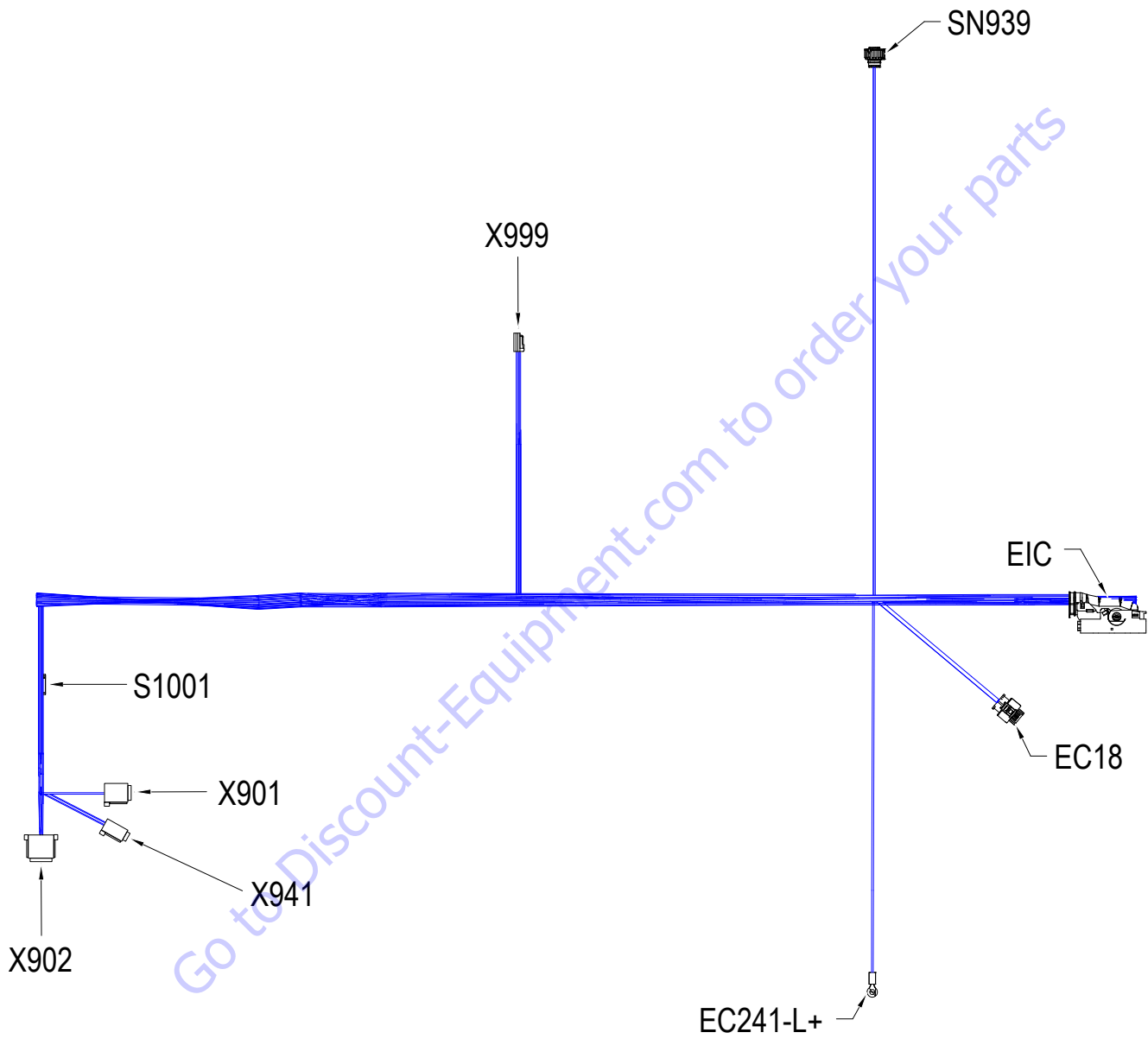
X901					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2	BLK	148-35-1 START	18 AWG	GXL	S1001 (2)
3	YEL	CAN 1 HI CUSTOMER CAN HIGH	18 AWG	J1939 CABLE	S951 (2)
4	GRN	CAN 1 LO CUSTOMER CAN LO	18 AWG	J1939 CABLE	S952 (2)
5	RED	47-8 ALT EXCITE	16 AWG	GXL	EC241-L+ (1)
6	SHLD	CAN 1 SHLD CUSTOMER CAN SHIELD	18 AWG	J1939 CABLE	ECM-J1 (NC)

EC241-L+					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	47-8 ALT EXCITE	16 AWG	GXL	X901 (5)

EC18					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	48-13 GLOW	8 AWG	GXL	RL931-87 (1)
2	RED	48-14 GLOW	8 AWG	GXL	RL931-87 (1)

SN939					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	148-29 COOLANT LEVEL PWR	0.75 mm²	FLRYW	ECM-J1 (29)
2	BLK	148-87 COOLANT LEVEL GND	0.75 mm²	FLRYW	ECM-J1 (87)
3	BLK	148-13 COOLANT LEVEL SIG	0.75 mm²	FLRYW	ECM-J1 (13)
4					

Figure 7-83. Deutz T4F Harness - Sheet 7 of 11



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Figure 7-84. Deutz T4F Harness - Sheet 8 of 11

**SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS**

WIRE NO	COLOR	WIRE GAUGE	JACKET	LENGTH (mm)	FROM		TO	
					REFERENCE	PIN	REFERENCE	PIN
000-148-246 ECM GND	BLK	8	GXL	85	T920	1	S945	1
000-48-1 ENG GND	BLK	14	GXL	17	T920	1	X941	4
000-48-2 ENG GND	BLK	18	GXL	22	T920	1	X950	B
000-48-3 GND	BLK	18	GXL	40	T920	1	X999	2
1-148-135 ECM PWR	RED	8	GXL	96	RL930-2	1	S944	1
2-1-99 IGNITION	YEL	18	GXL	26	MS932	G	X902	1
2-48-1 IGNITION	YEL	16	GXL	11	MS932	H	S946	1
2-48-2 IGNITION	YEL	18	GXL	8	X950	A	S946	1
2-48-3 IGNITION	YEL	18	GXL	10	RL931-86	1	S946	2
2-48-4 IGNITION	YEL	18	GXL	13	RL930	1	S946	2
47-8 ALT EXCITE	RED	16	GXL	74	EC241-L+	1	X901	5
48-14 GLOW	RED	8	GXL	65	RL931-87	1	EC18	2
48-96 FUEL PUMP	WHT	14	GXL	25	RL930-1	1	X941	3
148-13 COOLANT LEVEL SIG	BLK	0.75	FLRYW	165	ECM-J1	13	SN939	3
148-15-68 CLUTCH SWITCH	BLK	0.75	FLRYW	1	ECM-J1	15	ECM-J1	68
148-1 ECM PWR	RED	2.5	FLRYW	11	S944	2	ECM-J1	1
148-26 FUEL PUMP RELAY CONTROL GND	BLK	0.75	FLRYW	109	RL930	2	ECM-J1	26
148-28 START RTN	BLK	0.75	FLRYW	149	ECM-J1	28	EIC	2
148-29 COOLANT LEVEL PWR	BLK	0.75	FLRYW	166	ECM-J1	29	SN939	1
148-2 ECM GND	BLK	2.5	FLRYW	12	S945	2	ECM-J1	2
148-35-1 START	BLK	18	GXL	5	X901	2	S1001	2
148-35-2 START	BLK	0.75	FLRYW	93	ECM-J1	35	S1001	1
148-35-3 -	BLK	18	GXL	33	S1001	1	X999	1
148-38 THROTTLE FLAP 4	BLK	0.75	FLRYW	148	EIC	52	ECM-J1	38
148-3 ECM PWR	RED	2.5	FLRYW	11	ECM-J1	3	S944	2
148-44 EHXAUST GAS RECIRCULATION	BLK	0.75	FLRYW	149	EIC	50	ECM-J1	44
148-4 ECM GND	BLK	2.5	FLRYW	12	ECM-J1	4	S945	2
148-56 AIR INLET TEMP	BLK	0.75	FLRYW	148	EIC	34	ECM-J1	56
148-57 WATER IN FUEL SW RTN	BLK	0.75	FLRYW	98	X941	2	ECM-J1	57
148-5 ECM PWR	RED	2.5	FLRYW	11	S944	2	ECM-J1	5
148-61 FUEL LOW PRESSURE	BLK	0.75	FLRYW	149	EIC	17	ECM-J1	61
148-64 WATER IN FUEL SW	BLK	0.75	FLRYW	97	X941	1	ECM-J1	64
148-6 ECM GND	BLK	2.5	FLRYW	12	S945	2	ECM-J1	6
148-72 THROTTLE FLAP 3	BLK	0.75	FLRYW	148	EIC	49	ECM-J1	72
148-73 START SIG	BLK	0.75	FLRYW	147	ECM-J1	73	EIC	3
148-82 EHXAUST GAS RECIRCULATION	BLK	0.75	FLRYW	150	EIC	51	ECM-J1	82
148-85 EHXAUST GAS RECIRCULATION	BLK	0.75	FLRYW	148	EIC	46	ECM-J1	85
148-87 COOLANT LEVEL GND	BLK	0.75	FLRYW	169	ECM-J1	87	SN939	2
148-88 IGNITION	BLK	0.75	FLRYW	97	ECM-J1	88	S946	2
248-16 INJECTOR 1	BLK	1.5	FLRYW	147	ECM-J2	16	EIC	35
248-18 INJECTOR 4	BLK	1.5	FLRYW	147	ECM-J2	18	EIC	37
248-19 EHXAUST GAS RECIRCULATION	BLK	1.5	FLRYW	146	ECM-J2	19	EIC	47
248-20 EHXAUST GAS RECIRCULATION	BLK	1.5	FLRYW	147	ECM-J2	20	EIC	48
248-23-1 GLOW SENSE	ORG	18	GXL	19	MS932	F	RL931-87	1
248-23 GLOW SENSE	BLK	0.75	FLRYW	109	MS932	E	ECM-J2	23
248-24 BOOST PRESSURE / TEMP	BLK	0.75	FLRYW	148	ECM-J2	24	EIC	22
248-25 RAIL PRESSURE FUEL	BLK	0.75	FLRYW	148	ECM-J2	25	EIC	31
248-26 RAIL PRESSURE FUEL	BLK	0.75	FLRYW	148	ECM-J2	26	EIC	25

**Figure 7-85. Deutz T4F Harness - Sheet 9 of 11**

**SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS**

WIRE NO	COLOR	WIRE GAUGE	JACKET	LENGTH (mm)	FROM		TO	
					REFERENCE	PIN	REFERENCE	PIN
248-27 BOOST PRESSURE / TEMP	BLK	0.75	FLRYW	148	ECM-J2	27	EIC	29
248-28 COOLING TEMPERATURE	BLK	0.75	FLRYW	149	ECM-J2	28	EIC	24
248-29 OIL PRESSURE	BLK	0.75	FLRYW	146	ECM-J2	29	EIC	27
248-2 INJECTOR 3	BLK	1.5	FLRYW	147	ECM-J2	2	EIC	61
248-32 INJECTOR 3	BLK	1.5	FLRYW	148	ECM-J2	32	EIC	38
248-33 INJECTOR 1	BLK	1.5	FLRYW	148	ECM-J2	33	EIC	62
248-35 GLOW RELAY CONTROL GND	BLK	0.75	FLRYW	106	RL931-85	1	ECM-J2	35
248-37 ENGINE SPEED CAMSHAFT	BLK	18	CABLE	148	ECM-J2	37	EIC	14
248-38 ENGINE SPEED CRANKSHAFT	SHLD	18	CABLE	146	EIC	1	ECM-J2	38
248-39 ENGINE SPEED CRANKSHAFT	BLK	18	CABLE	146	ECM-J2	39	EIC	15
248-3 INJECTOR 2	BLK	1.5	FLRYW	147	ECM-J2	3	EIC	41
248-40 AIR INLET TEMP	BLK	0.75	FLRYW	147	ECM-J2	40	EIC	28
248-43 OIL PRESSURE	BLK	0.75	FLRYW	146	ECM-J2	43	EIC	23
248-44 OIL PRESSURE	BLK	0.75	FLRYW	149	ECM-J2	44	EIC	26
248-46 INJECTOR 2	BLK	1.5	FLRYW	147	ECM-J2	46	EIC	40
248-48 INJECTOR 4	BLK	1.5	FLRYW	147	ECM-J2	48	EIC	42
248-4 MPROP ACTUATOR	BLK	1.5	FLRYW	146	ECM-J2	4	EIC	19
248-52 ENGINE SPEED CAMSHAFT	WHT	18	CABLE	147	ECM-J2	52	EIC	13
248-53 ENGINE SPEED CAMSHAFT	SHLD	18	CABLE	149	ECM-J2	53	EIC	9
248-54 ENGINE SPEED CRANKSHAFT	WHT	18	CABLE	147	ECM-J2	54	EIC	21
248-5 MPROP ACTUATOR	BLK	1.5	FLRYW	147	ECM-J2	5	EIC	20
248-7 RAIL PRESSURE FUEL	BLK	0.75	FLRYW	147	ECM-J2	7	EIC	32
48-13 GLOW	RED	8	GXL	67	RL931-87	1	EC18	1
CAN 1 HI CUSTOMER CAN HIGH	YEL	18	J1939 CABLE	59	X950	M	S951	2
CAN 1 HI CUSTOMER CAN HIGH	YEL	18	J1939 CABLE	29	S953	2	S951	1
CAN 1 HI CUSTOMER CAN HIGH	YEL	18	J1939 CABLE	55	X901	3	S951	2
CAN 1 HI CUSTOMER CAN HIGH	YEL	18	J1939 CABLE	15	ECM-J1	54	S953	1
CAN 1 HI CUSTOMER CAN HIGH	YEL	18	J1939 CABLE	6	S953	2	X955	A
CAN 1 LO CUSTOMER CAN LO	GRN	18	J1939 CABLE	64	X901	4	S952	2
CAN 1 LO CUSTOMER CAN LOW	GRN	18	J1939 CABLE	18	S954	2	S952	1
CAN 1 LO CUSTOMER CAN LO	GRN	18	J1939 CABLE	69	X950	F	S952	2
CAN 1 LO CUSTOMER CAN LOW	GRN	18	J1939 CABLE	16	ECM-J1	76	S954	1
CAN 1 LO CUSTOMER CAN LOW	GRN	18	J1939 CABLE	6	S954	2	X955	B
CAN 1 SHLD CUSTOMER CAN SHIELD	SHLD	18	J1939 CABLE	99	X901	6	ECM-J1	NC
CAN 2 HI DIAG CAN HIGH	YEL	18	J1939 CABLE	12	S964	2	X960	A
CAN 2 HI DIAG CAN HIGH	YEL	18	J1939 CABLE	10	X950	H	S964	2
CAN 2 HI DIAG CAN HIGH	YEL	18	J1939 CABLE	14	ECM-J1	75	S969	1
CAN 2 HI DIAG CAN HIGH	YEL	18	J1939 CABLE	79	S964	1	S969	2
CAN 2 HI DIAG CAN HIGH	YEL	18	J1939 CABLE	7	S969	2	X965	A
CAN 2 LO DIAG CAN LOW	GRN	18	J1939 CABLE	14	S963	2	X960	B
CAN 2 LO DIAG CAN LOW	GRN	18	J1939 CABLE	12	X950	G	S963	2
CAN 2 LO DIAG CAN LOW	GRN	18	J1939 CABLE	13	ECM-J1	53	S968	1
CAN 2 LO DIAG CAN LOW	GRN	18	J1939 CABLE	80	S963	1	S968	2
CAN 2 LO DIAG CAN LOW	GRN	18	J1939 CABLE	8	S968	2	X965	B

**Figure 7-86. Deutz T4F Harness - Sheet 10 of 11**

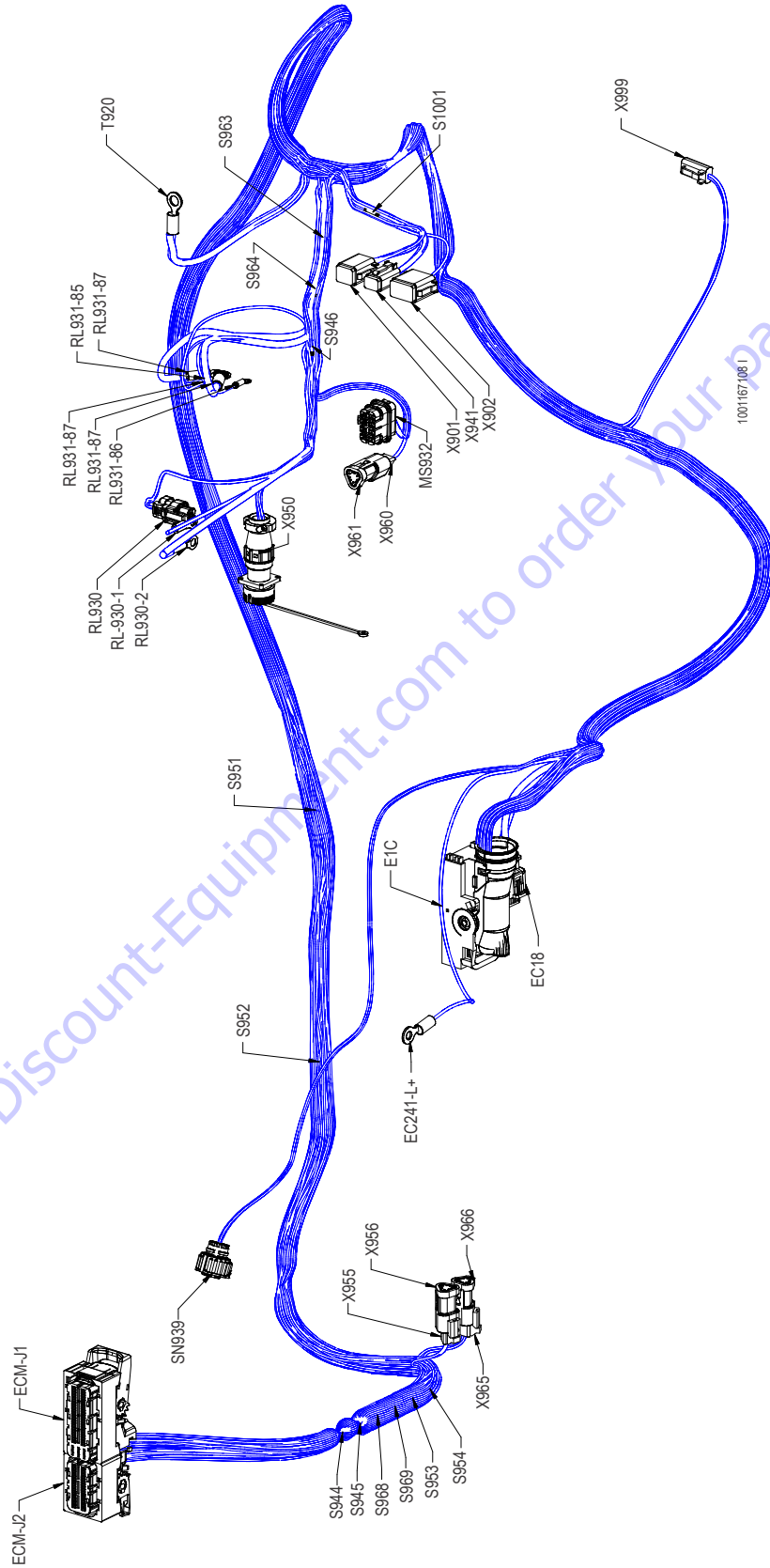


Figure 7-87. Deutz T4F Harness - Sheet 11 of 11

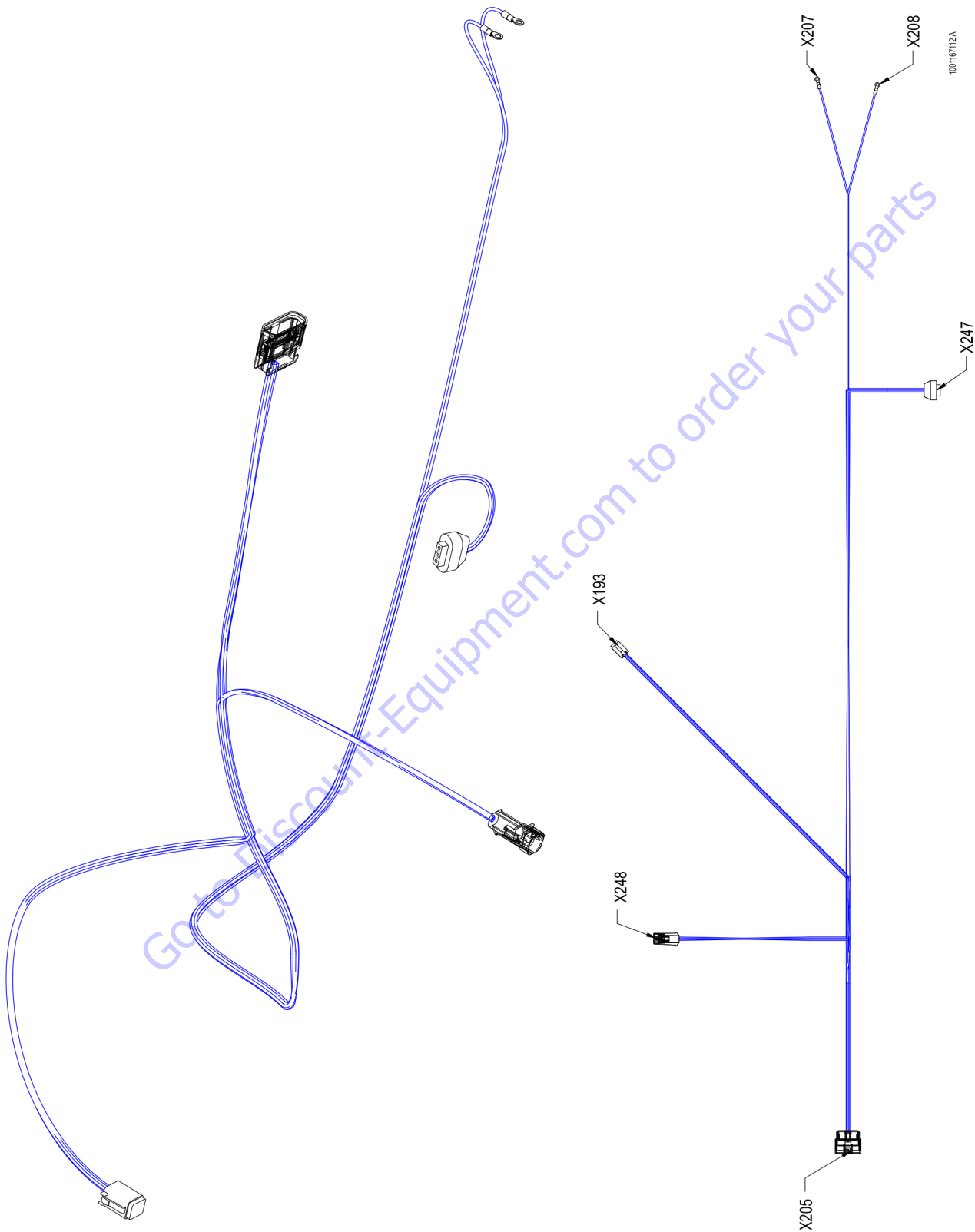


Figure 7-88. GM Engine Harness - Sheet 1 of 2

**SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS**

WIRE NO	COLOR	WIRE GAUGE	JACKET	LENGTH (mm)	FROM		TO	
					REFERENCE	PIN	REFERENCE	PIN
000-60-11	BLK	16	GXL	1965	X205	C	X208	1
6-12	WHT	18	GXL	1077	X193	2	X205	F
6-14	WHT	18	GXL	1076	X193	1	X205	A
6-19	BLK	18	GXL	1500	X247	1	X248	1
6-20	WHT	18	GXL	1505	X247	2	X248	2
6-21	RED	18	GXL	1507	X247	3	X248	3
6-22	GRN	18	GXL	1494	X247	4	X248	4
6-53	WHT	18	GXL	1079	X193	5	X205	B
6-54	WHT	16	GXL	1973	X205	D	X207	1
CAN HI	RED	18	CABLE	1076	X193	3	X205	N
CAN LO	BLK	18	CABLE	1074	X193	4	X205	P

X205					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	WHT	6-14 IGNITION	18 AWG	GXL	X193 (1)
B	WHT	6-53 ALTERNATOR EXCITATION	18 AWG	GXL	X193 (5)
C	BLK	000-60-1 FUEL PUMP NEGATIVE	16 AWG	GXL	X208 (1)
D	WHT	6-54 FUEL PUMP POSITIVE	16 AWG	GXL	X207 (1)
E					
F	WHT	6-12 ENGINE START	18 AWG	GXL	X193 (2)
G					
H					
J					
K					
L					
M					
N	RED	CAN HI	18 AWG	CABLE	X193 (3)
P	BLK	CAN LO	18 AWG	CABLE	X193 (4)
R					
S					

X193					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	6-14 IGNITION	18 AWG	GXL	X205 (A)
2	WHT	6-12 ENGINE START	18 AWG	GXL	X205 (F)
3	RED	CAN HI	18 AWG	CABLE	X205 (N)
4	BLK	CAN LO	18 AWG	CABLE	X205 (P)
5	WHT	6-53 ALTERNATOR EXCITATION	18 AWG	GXL	X205 (B)
6					

X247					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	6-19	18 AWG	GXL	X248 (1)
2	WHT	6-20	18 AWG	GXL	X248 (2)
3	RED	6-21	18 AWG	GXL	X248 (3)
4	GRN	6-22	18 AWG	GXL	X248 (4)

X248					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	6-19	18 AWG	GXL	X247 (1)
2	WHT	6-20	18 AWG	GXL	X247 (2)
3	RED	6-21	18 AWG	GXL	X247 (3)
4	GRN	6-22	18 AWG	GXL	X247 (4)

X208					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	000-60-1 FUEL PUMP NEGATIVE	16 AWG	GXL	X205 (C)

X207					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	6-54 FUEL PUMP POSITIVE	16 AWG	GXL	X205 (D)

**Figure 7-89. GM Engine Harness - Sheet 2 of 2**

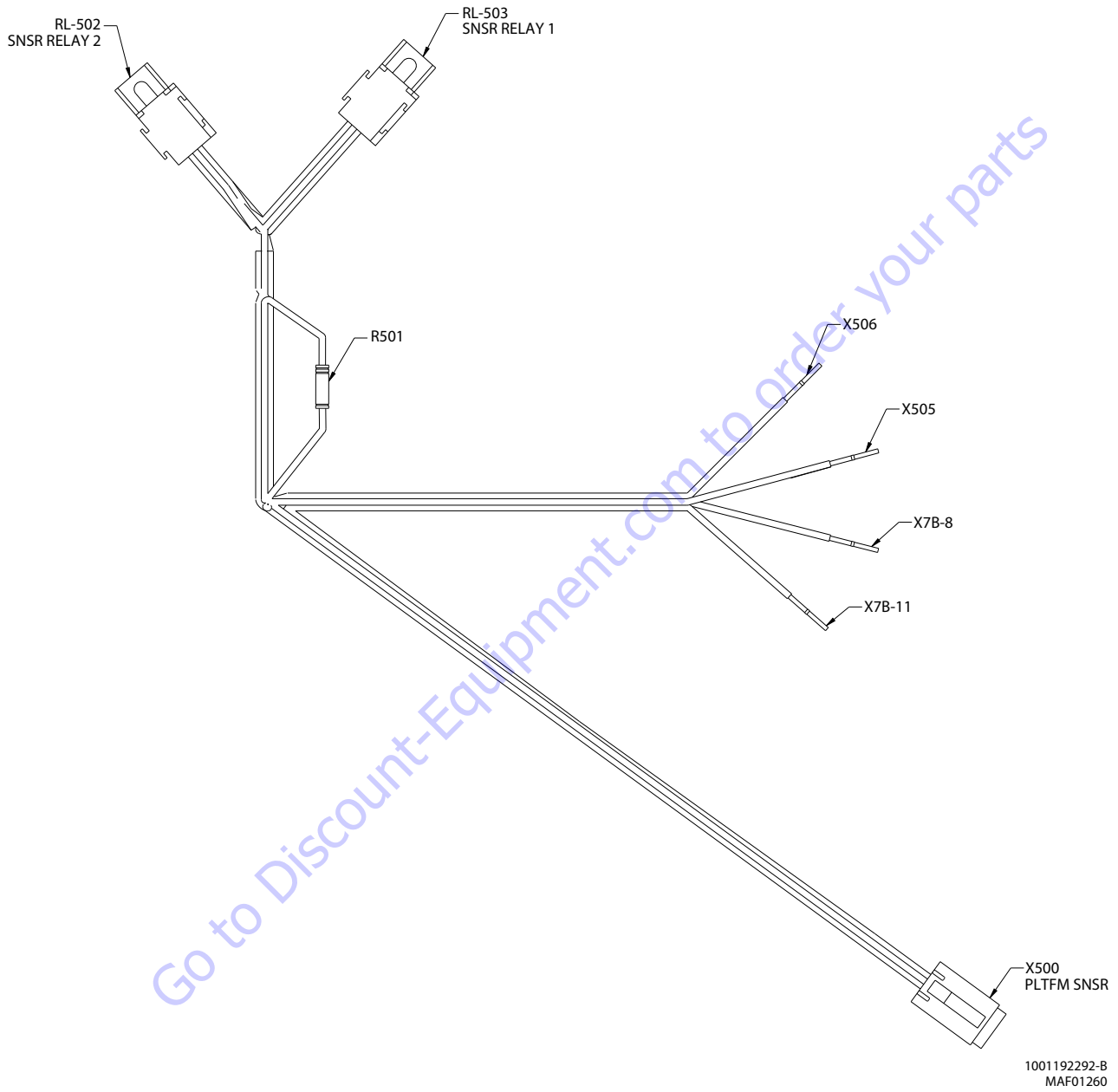


Figure 7-90. Skyguard Harness - Sheet 1 of 2



SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS

RL-503 - SNSR RELAY 1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	T0
30	WHT	P9	18AWG	GXL	X505 (1)
30	WHT	P9-1	18AWG	GXL	RL-502 (30)
85	WHT	P5-1	18AWG	GXL	RL-502 (85)
86	WHT	P4-1	18AWG	GXL	RL-502 (86)
87	WHT	P1	18AWG	GXL	X506 (1)
87a					

X505					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	T0
1	WHT	P2	18AWG	GXL	R501 (1)
1	WHT	P9	18AWG	GXL	RL-503 (30)

R501					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	T0
1	WHT	P2	18AWG	GXL	X505 (1)
2	WHT	P10	18AWG	GXL	X500 (1)

X7B-8					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	T0
1	WHT	P6	18AWG	GXL	X500 (2)

RL-502 - SNSR RELAY 2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	T0
30	WHT	P9-1	18AWG	GXL	RL-503 (30)
85	WHT	P5	18AWG	GXL	X500 (4)
85	WHT	P5-1	18AWG	GXL	RL-503 (85)
86	WHT	P4	18AWG	GXL	X500 (3)
86	WHT	P4-1	18AWG	GXL	RL-503 (86)
87	WHT	P3	18AWG	GXL	X7B-11 (1)
87a					

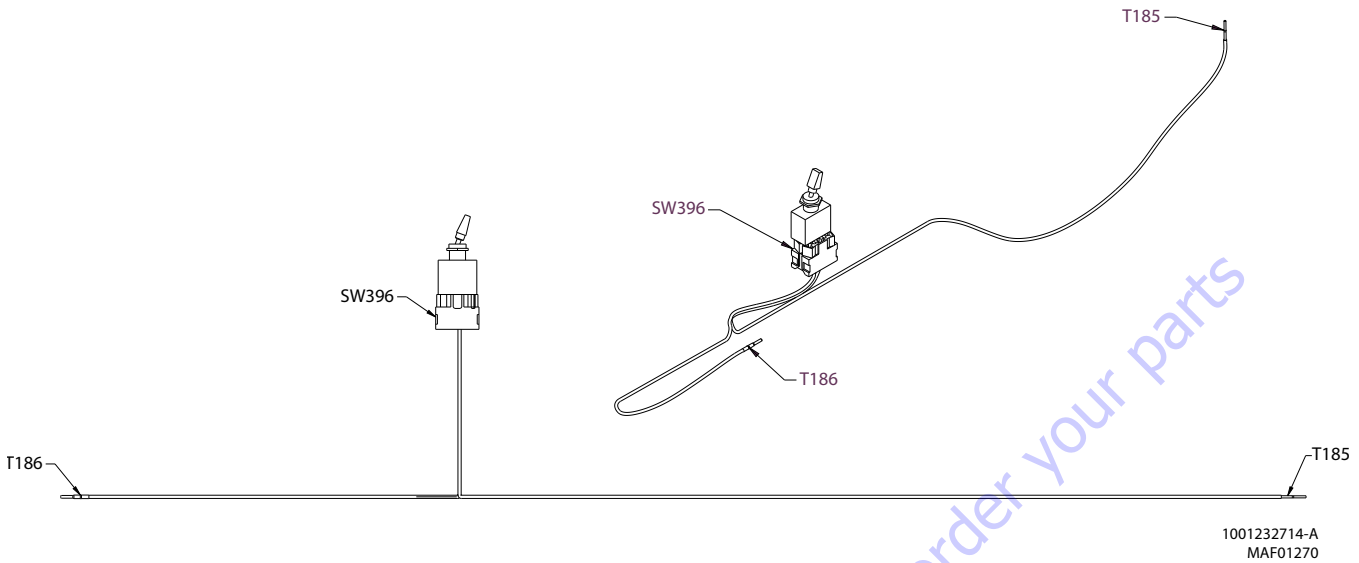
X7B-11					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	T0
1	WHT	P3	18AWG	GXL	RL-502 (87)

X506					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	T0
1	WHT	P1	18AWG	GXL	RL-503 (87)

X500 - PLTFM SNSR					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	T0
1	WHT	P10	18AWG	GXL	R501 (2)
2	WHT	P6	18AWG	GXL	X7B-8 (1)
3	WHT	P4	18AWG	GXL	RL-502 (86)
4	WHT	P5	18AWG	GXL	RL-502 (85)

Figure 7-91. Skyguard Harness - Sheet 2 of 2

**SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS**

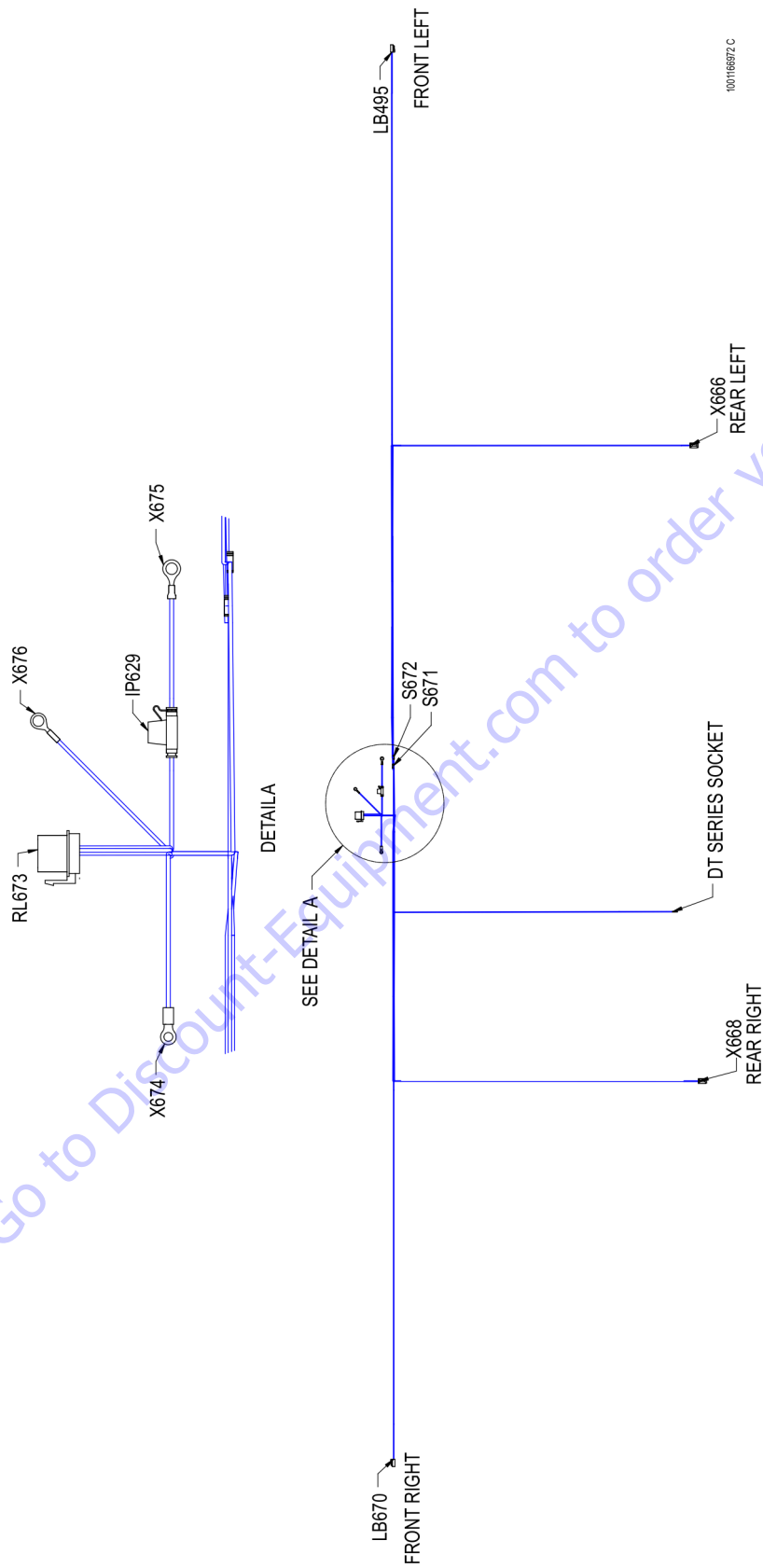


T186					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	4-105 CRIBBING	18AWG	TFFN	SW396 (3)

T185					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	4-85 IGN	18AWG	TFFN	SW396 (2)

SW396					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2	YEL	4-85 IGN	18 AWG	TFFN	T185 (1)
3	WHT	4-105 CRIBBING	18 AWG	TFFN	T186 (1)
4					
5					
6					

**Figure 7-92. Cribbing Enable Harness**



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Figure 7-93. Chassis Head and Tail Lights Harness - Sheet 1 of 3

**SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS**

LB495					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	6-11	16 AWG	GXL	S671 (1)
2	BLK	000-60-11	16 AWG	GXL	S672 (1)

X668					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2	WHT	6-30	16 AWG	GXL	S671 (2)
3	BLK	000-60-30	16 AWG	GXL	S672 (2)
4					

LB495					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	6-11	16 AWG	GXL	S671 (1)
2	BLK	000-60-11	16 AWG	GXL	S672 (1)

RL673					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	4-146	14 AWG	GXL	IP629 (2)
2	BLK	000-40-109	16 AWG	GXL	X676 (1)
3					
4	WHT	6-8	14 AWG	GXL	S671 (2)
5	WHT	4-145	18 AWG	GXL	X505 (1)

X674					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	4-122	14 AWG	GXL	S672 (2)

IP629					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	4-146	14 AWG	GXL	X675 (1)
2	WHT	4-146	14 AWG	GXL	RL673 (1)

X675					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	4-146	14 AWG	GXL	IP629 (1)

X676					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	000-40-109	16 AWG	GXL	RL673 (2)

S671					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	6-11	16 AWG	GXL	LB495 (1)
1	WHT	6-29	16 AWG	GXL	LB670 (1)
2	WHT	6-13	16 AWG	GXL	X666 (2)
2	WHT	6-30	16 AWG	GXL	X668 (2)
2	WHT	6-8	14 AWG	GXL	RL673 (4)

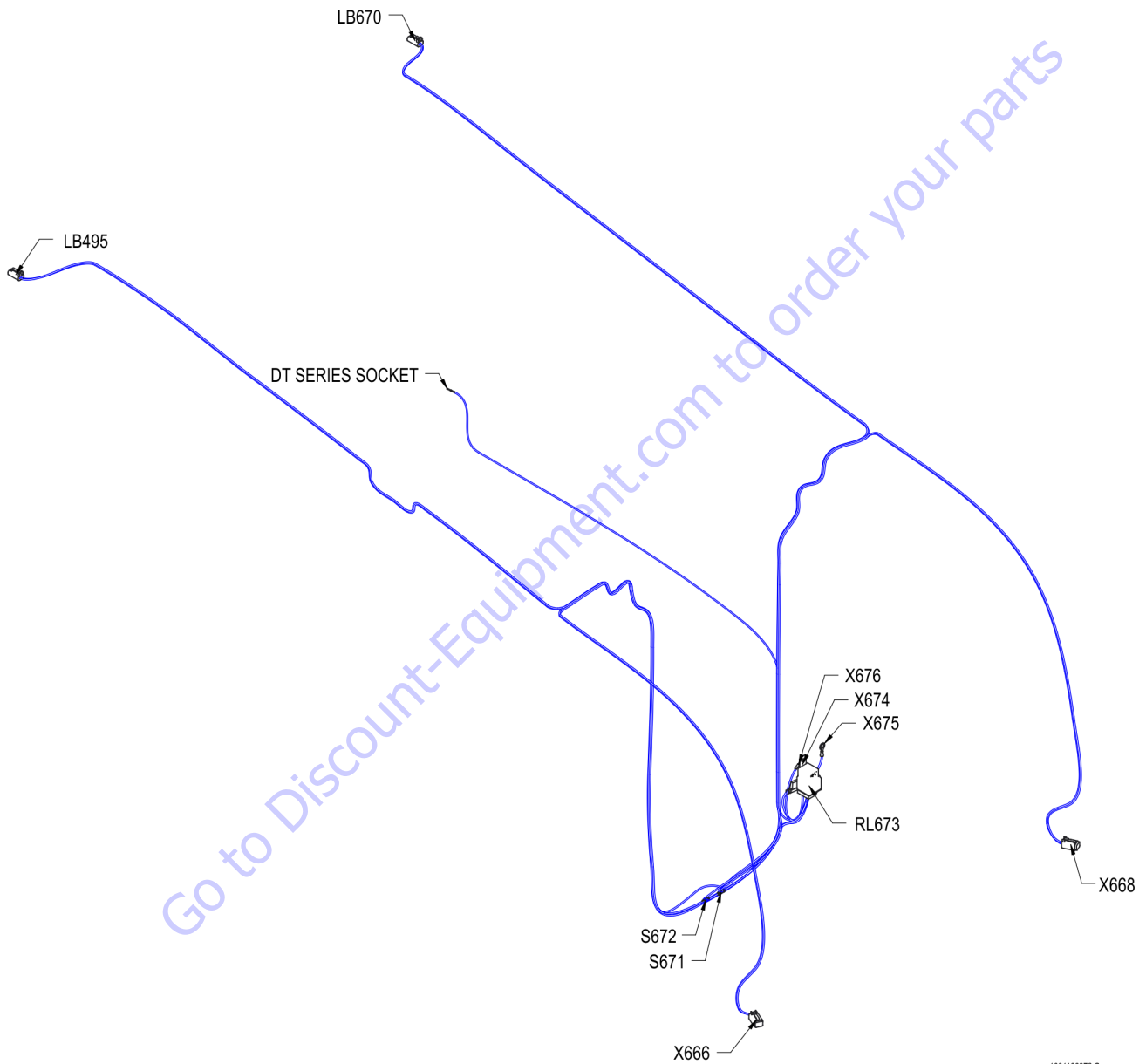
X505					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	4-145	18 AWG	GXL	RL673 (5)

X666					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2	WHT	6-13	16 AWG	GXL	S671 (2)
3	BLK	000-60-12	16 AWG	GXL	S672 (2)
4					

S672					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	000-60-11	16 AWG	GXL	LB495 (2)
1	BLK	000-60-29	16 AWG	GXL	LB670 (2)
2	BLK	000-60-12	16 AWG	GXL	X666 (3)
2	BLK	000-60-30	16 AWG	GXL	X668 (3)
2	BLK	4-122	14 AWG	GXL	X674 (1)

WIRE NO	COLOR	WIRE GAUGE	JACKET	LENGTH (mm)	FROM		TO	
					REFERENCE	PIN	REFERENCE	PIN
000-40-109	BLK	16	GXL	196	RL673	2	X676	1
000-60-11	BLK	16	GXL	2680	LB495	2	S672	1
000-60-12	BLK	16	GXL	2327	S672	2	X666	3
000-60-29	BLK	16	GXL	2689	S672	1	LB670	2
000-60-30	BLK	16	GXL	2399	S672	2	X668	3
4-122	BLK	14	GXL	388	S672	2	X674	1
4-145	WHT	18	GXL	1516	X505	1	RL673	5
4-146	WHT	14	GXL	140	IP629	2	RL673	1
4-146	WHT	14	GXL	83	IP629	1	X675	1
6-11	WHT	16	GXL	2723	S671	1	LB495	1
6-13	WHT	16	GXL	2372	S671	2	X666	2
6-29	WHT	16	GXL	2651	S671	1	LB670	1
6-30	WHT	16	GXL	2358	S671	2	X668	2
6-8	WHT	14	GXL	308	S671	2	RL673	4

**Figure 7-94. Chassis Head and Tail Lights Harness - Sheet 2 of 3**

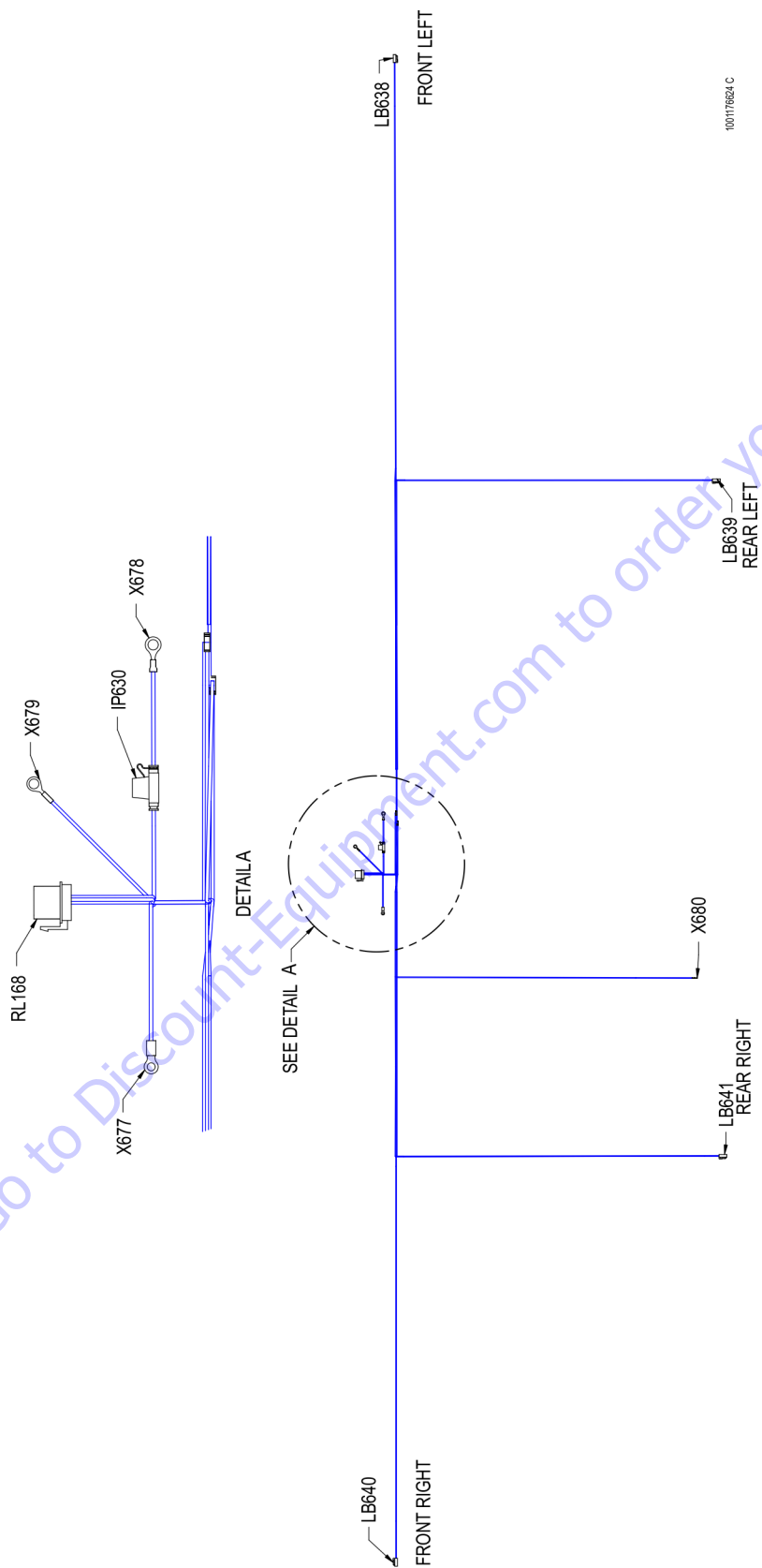


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Figure 7-95. Chassis Head and Tail Lights Harness - Sheet 3 of 3

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Figure 7-96. Chassis Work Lights Harness- Sheet 1 of 3

SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS

LB638					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	6-4	16 AWG	GXL	S642 (1)
2	BLK	000-60-3	16 AWG	GXL	S643 (1)

LB639					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	6-5	16 AWG	GXL	S642 (2)
2	BLK	000-60-4	16 AWG	GXL	S643 (2)

LB640					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	6-6	16 AWG	GXL	S642 (1)
2	BLK	000-60-5	16 AWG	GXL	S643 (1)

LB641					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	6-7	16 AWG	GXL	S642 (2)
2	BLK	000-60-6	16 AWG	GXL	S643 (2)

X680					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	4-28	16 AWG	GXL	RL168 (5)

X677					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	000-40-17	14 AWG	GXL	S643 (2)

X679					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	000-40-9	16 AWG	GXL	RL168 (2)

X678					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	4-70	14 AWG	GXL	IP630 (1)

IP630					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	4-70	14 AWG	GXL	X678 (1)
2	BLK	4-70	14 AWG	GXL	RL168 (1)

RL168					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	4-70	14 AWG	GXL	IP630 (2)
2	BLK	000-40-9	16 AWG	GXL	X679 (1)
3					
4	WHT	6-8	14 AWG	GXL	S642 (2)
5	WHT	4-28	16 AWG	GXL	X680 (1)

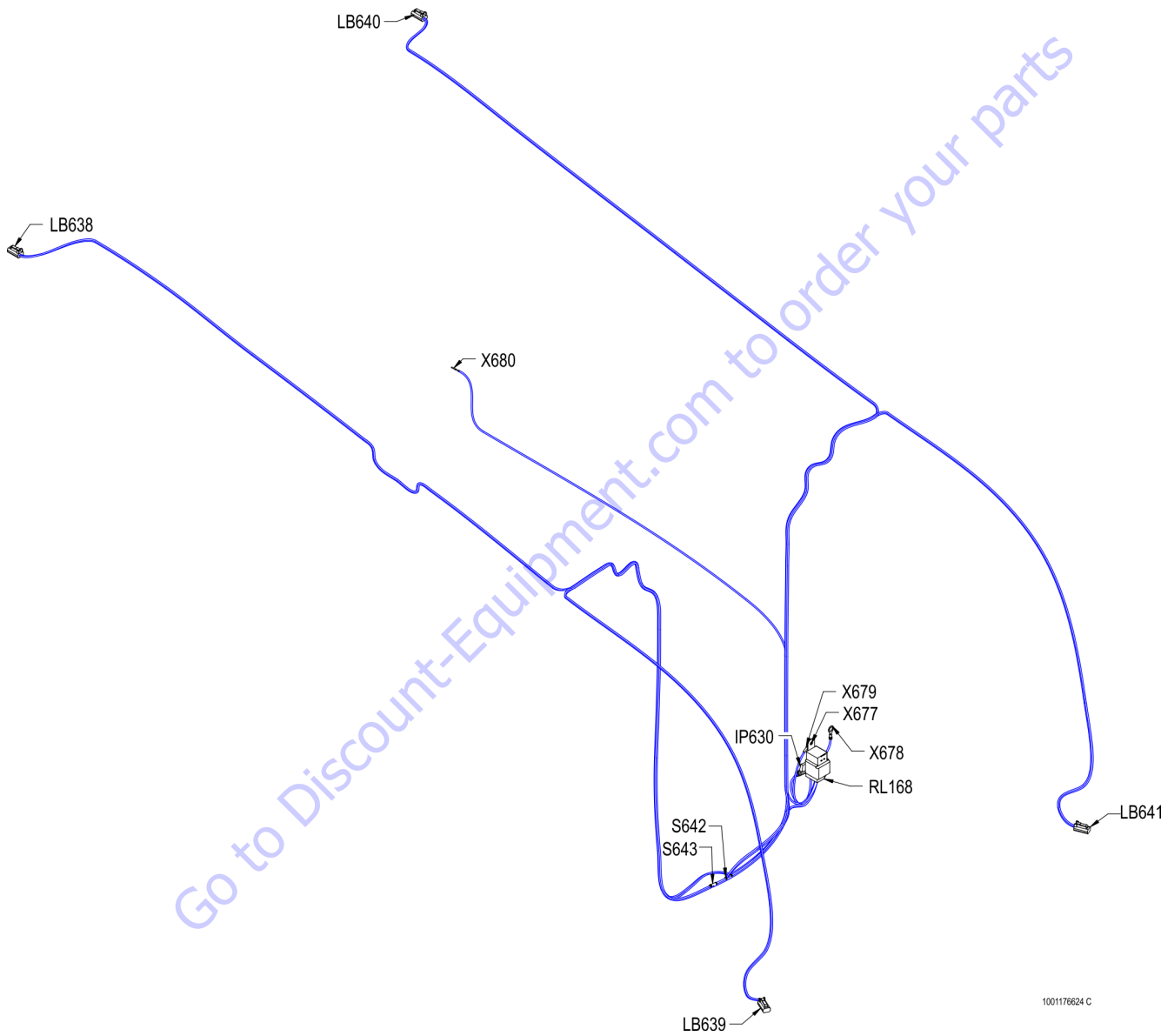
S642					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	6-4	16 AWG	GXL	LB638 (1)
1	WHT	6-6	16 AWG	GXL	LB640 (1)
2	WHT	6-5	16 AWG	GXL	LB639 (1)
2	WHT	6-7	16 AWG	GXL	LB641 (1)
2	WHT	6-8	14 AWG	GXL	RL168 (4)

S643					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	000-60-3	16 AWG	GXL	LB638 (2)
1	BLK	000-60-5	16 AWG	GXL	LB640 (2)
2	BLK	000-40-17	14 AWG	GXL	X677 (1)
2	BLK	000-60-4	16 AWG	GXL	LB639 (2)
2	BLK	000-60-6	16 AWG	GXL	LB641 (2)

WIRE NO	COLOR	WIRE GAUGE	JACKET	LENGTH (mm)	FROM		TO	
					REFERENCE	PIN	REFERENCE	PIN
000-40-17	BLK	14	GXL	386	S643	2	X677	1
000-40-9	BLK	16	GXL	196	RL168	2	X679	1
000-60-3	BLK	16	GXL	2680	LB638	2	S643	1
000-60-4	BLK	16	GXL	2316	S643	2	LB639	2
000-60-5	BLK	16	GXL	2682	S643	1	LB640	2
000-60-6	BLK	16	GXL	2396	S643	2	LB641	2
4-28	WHT	16	GXL	1516	RL168	5	X680	1
4-70	BLK	14	GXL	149	IP630	2	RL168	1
4-70	BLK	14	GXL	79	X678	1	IP630	1
6-4	WHT	16	GXL	2739	S642	1	LB638	1
6-5	WHT	16	GXL	2375	S642	2	LB639	1
6-6	WHT	16	GXL	2643	S642	1	LB640	1
6-7	WHT	16	GXL	2368	S642	2	LB641	1
6-8	WHT	14	GXL	302	RL168	4	S642	2

Figure 7-97. Chassis Work Lights Harness - Sheet 2 of 3





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Figure 7-98. Chassis Work Lights Harness - Sheet 3 of 3

## 7.8 ELECTRICAL SCHEMATICS

SHEET 2: PLATFORM  
PLATFORM CONTROL BOX HARNESS WITHOUT SKYGUARD

SHEET 3: PLATFORM AND BOOM COMPONENTS  
LSS HARNESS 450/400  
BOOM CONTROL CABLE, NO JIB, 460SJ W/ JIB  
TELE IN PROX SWITCHES  
600/1000# CAPACITY PROX SWITCHES CABLE

SHEET 4: CHASSIS, TURNTABLE  
TURNTABLE HARNESS

SHEET 5: GROUND USER INTERFACE  
MAIN VALVE HARNESS  
GROUND CONTROL PANEL HARNESS

SHEET 6: ENGINE SCHEMATIC DEUTZ - T4i  
DEUTZ T4i ENGINE HARNESS  
BATTERY CABLE KIT - T4i

SHEET 7: ENGINE SCHEMATIC DEUTZ T4F  
DEUTZ T4F ENGINE HARNESS  
BATTERY CABLE KIT - T4F

SHEET 8: ENGINE SCHEMATIC GM  
GM ENGINE HARNESS  
BATTERY CABLE KIT - GM

SHEET 9: SKYGUARD

SHEET 10: PLATFORM CHASSIS HEAD AND TAIL PLATF WORKLIGHTS, CLEAR SKY  
PLATFORM WORK LIGHTS  
CHASSIS HEAD AND TAIL LIGHTS  
CHASSIS WORK LIGHTS

SHEET 11: NOT USED

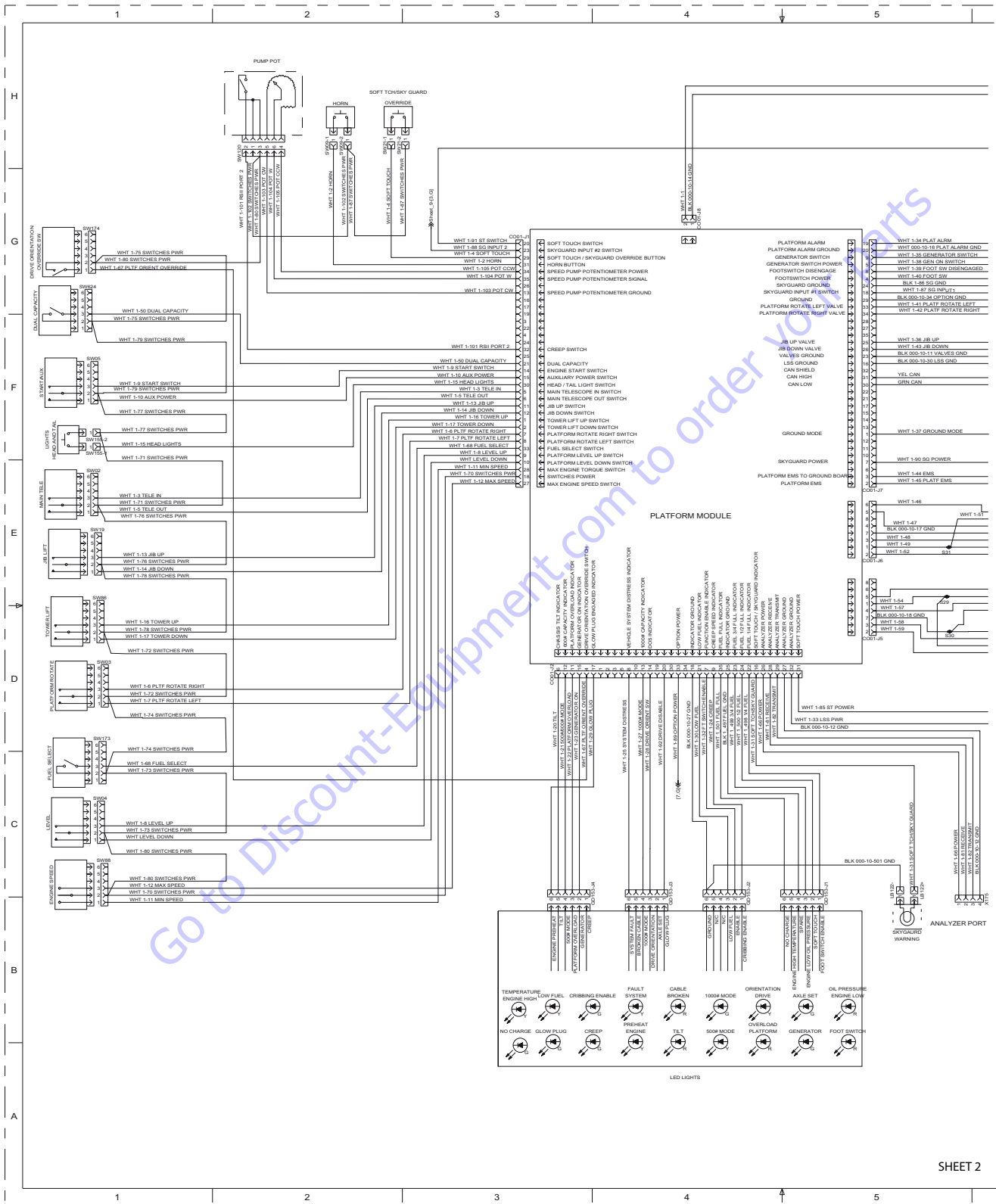
SHEET 12: NOT USED

SHEET 13: KUBOTA ENGINE KUBOTA  
ENGINE HARNESS  
ALTERNATOR CABLE  
BATTERY CABLE KIT

SHEET 14: PLATFORM  
PLATFORM CONTROL BOX HARNESS  
WITH SKYGUARD

Figure 7-99. Electrical Schematic - Sheet 1 of 25

# SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS



SHEET 2

Figure 7-100. Electrical Schematic - Sheet 2 of 25

SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS

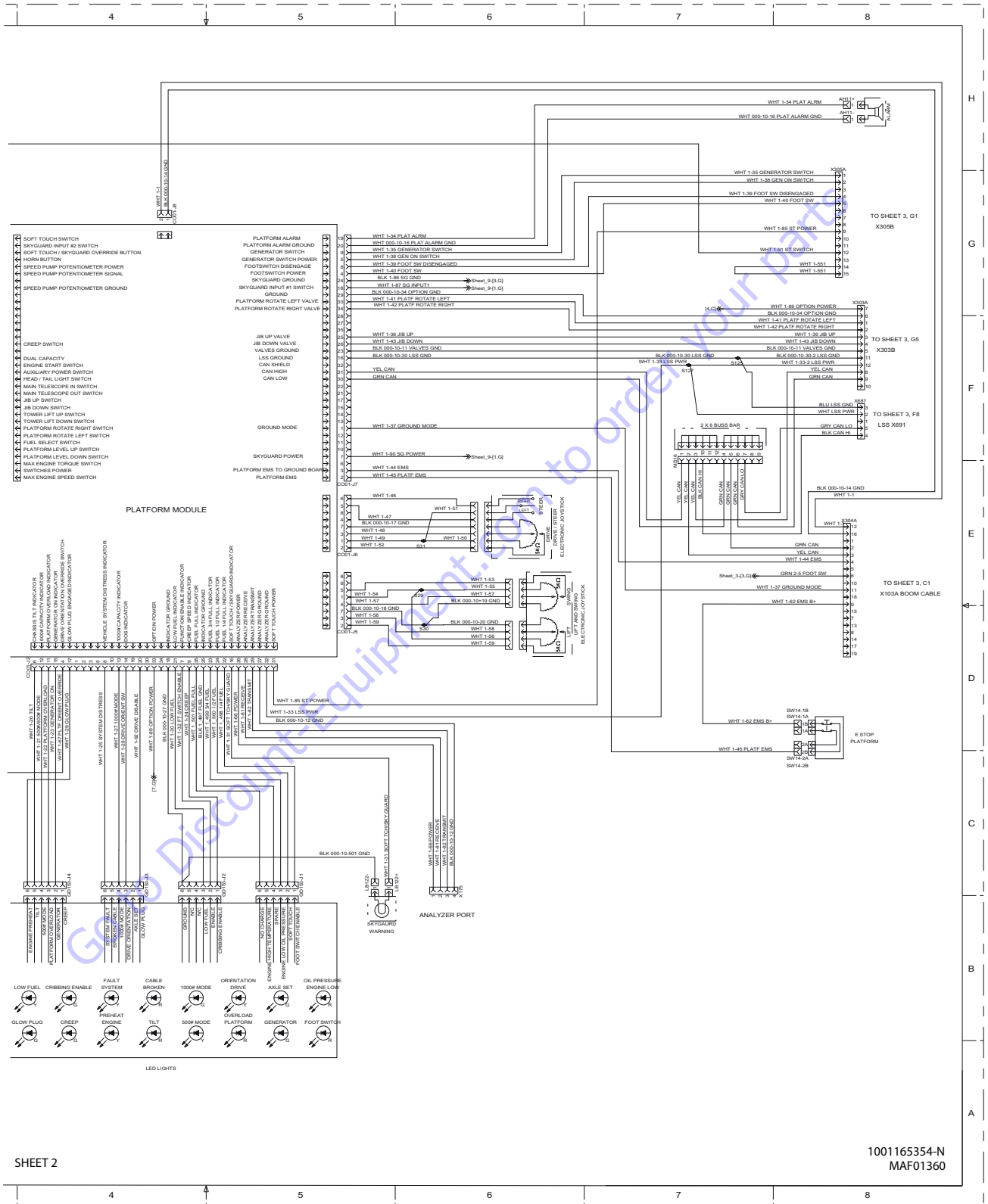
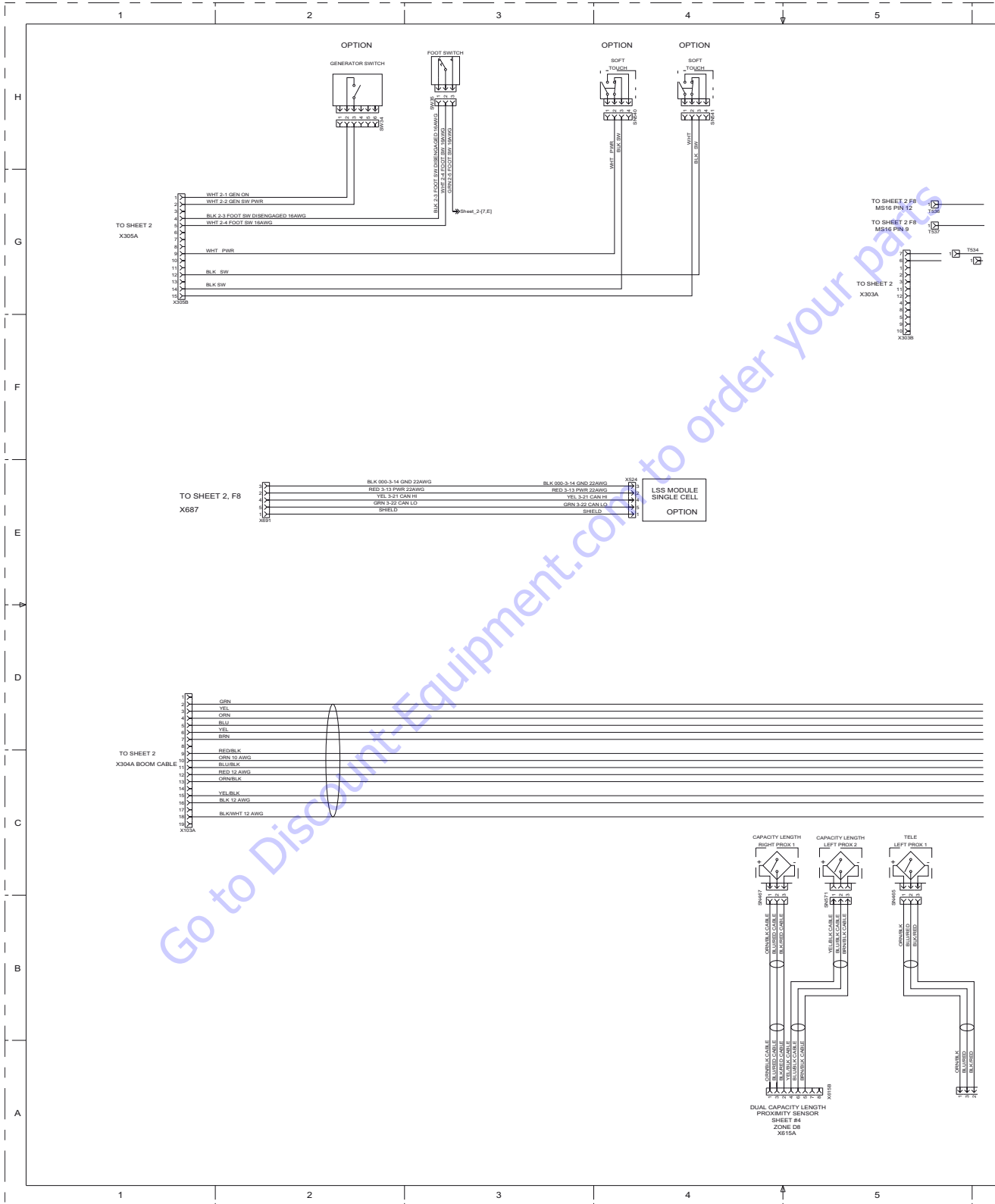


Figure 7-101. Electrical Schematic - Sheet 3 of 25

**SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS**



**Figure 7-102. Electrical Schematic - Sheet 4 of 25**

SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS

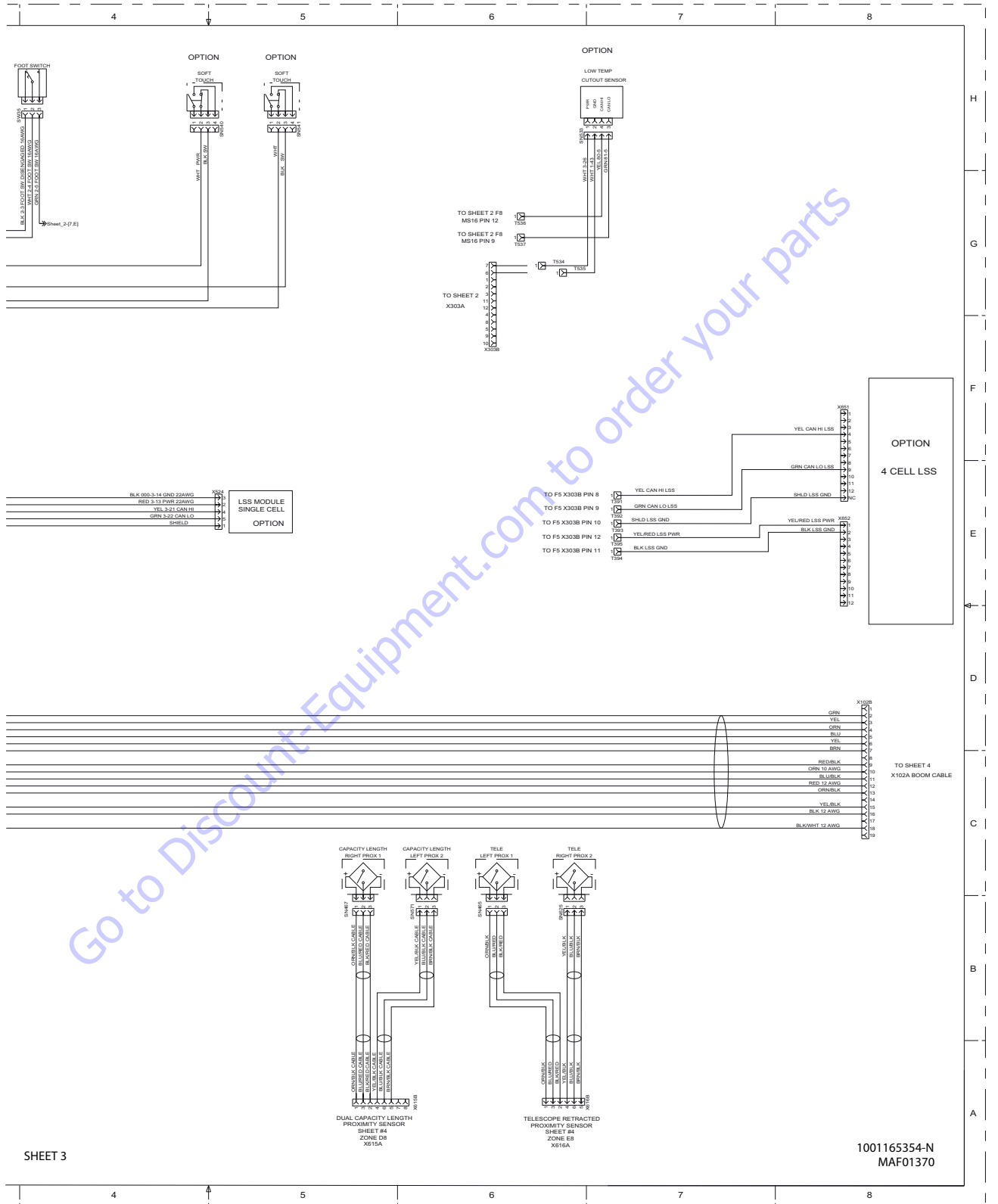


Figure 7-103. Electrical Schematic - Sheet 5 of 25

# SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS

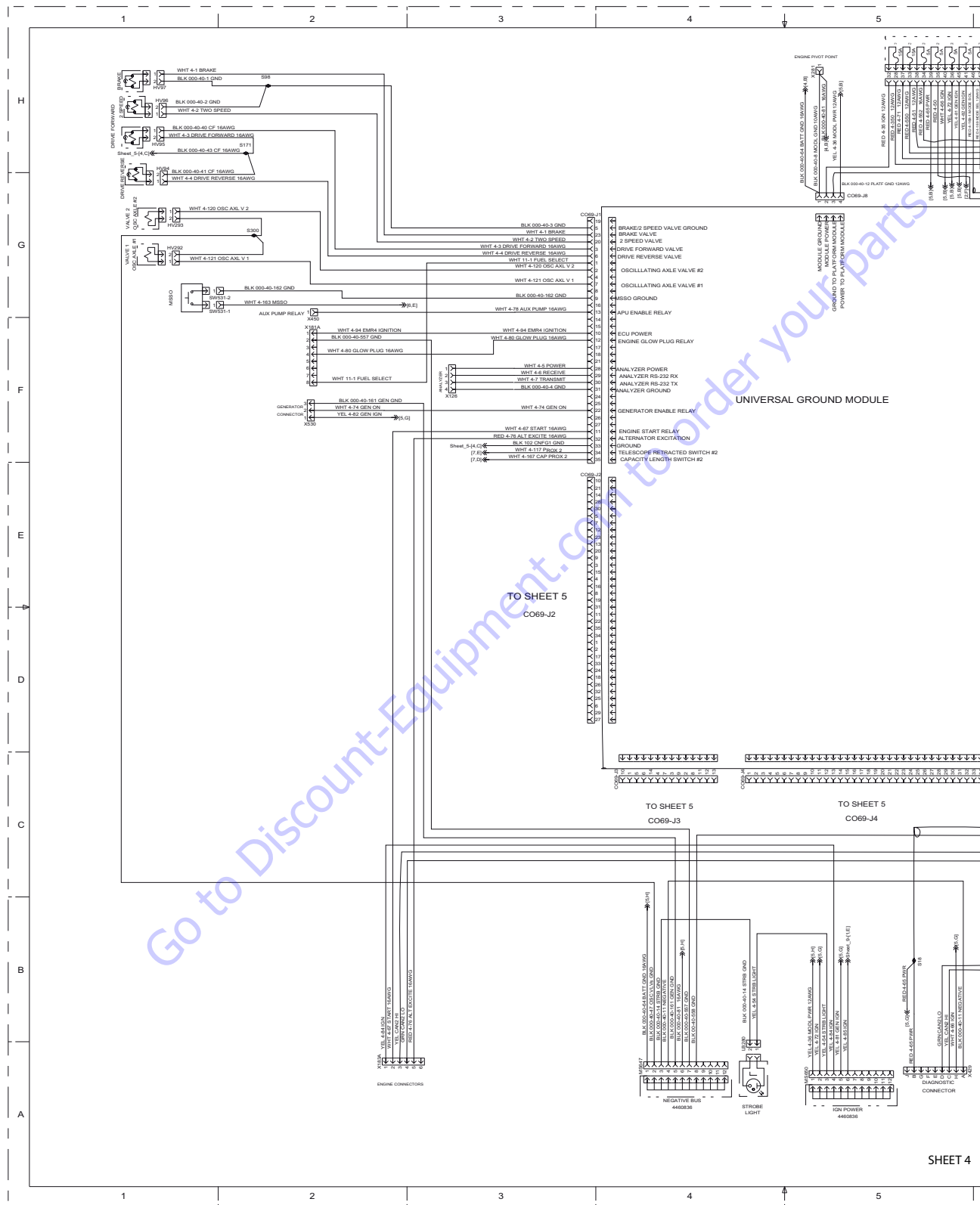


Figure 7-104. Electrical Schematic - Sheet 6 of 25

SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS

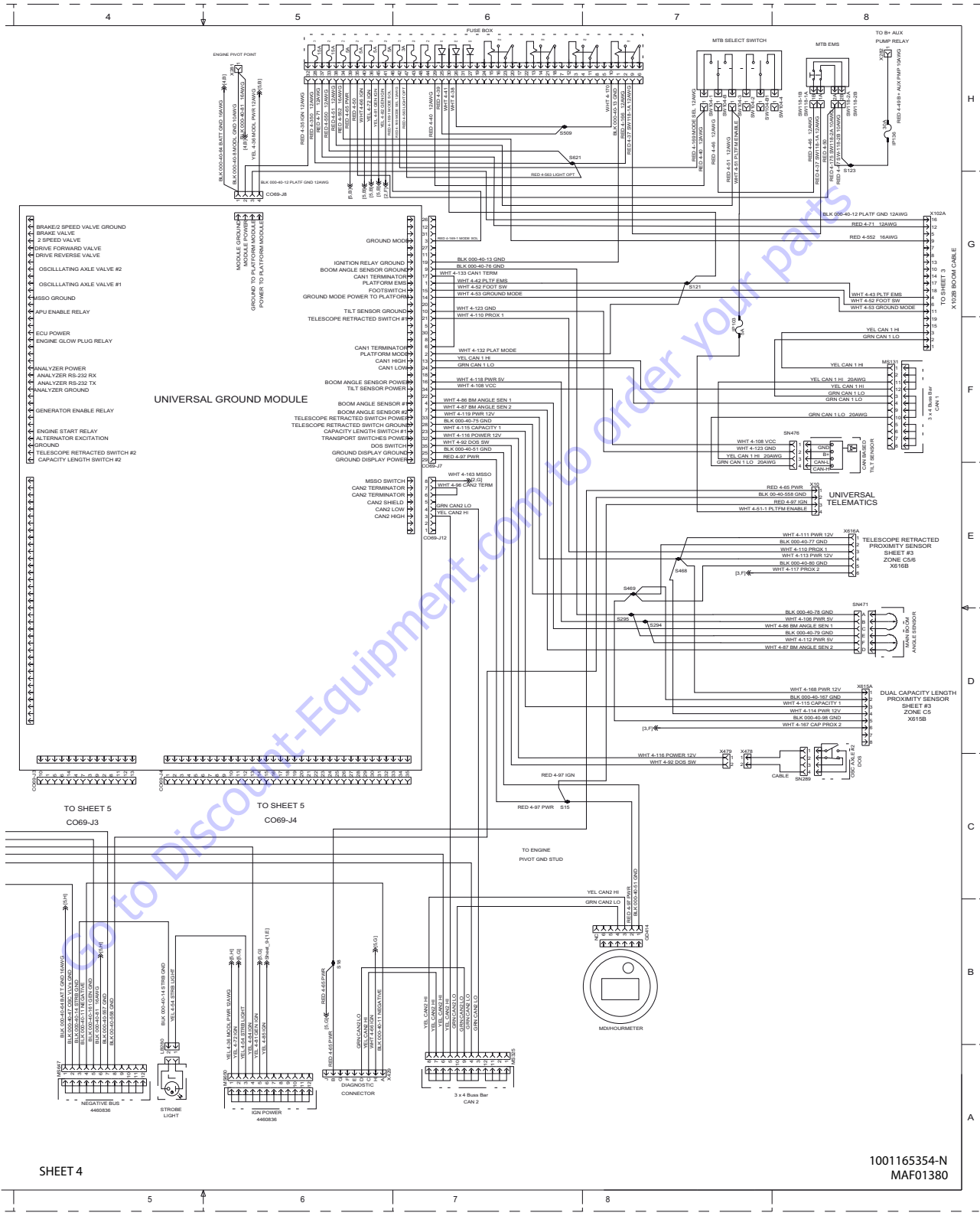
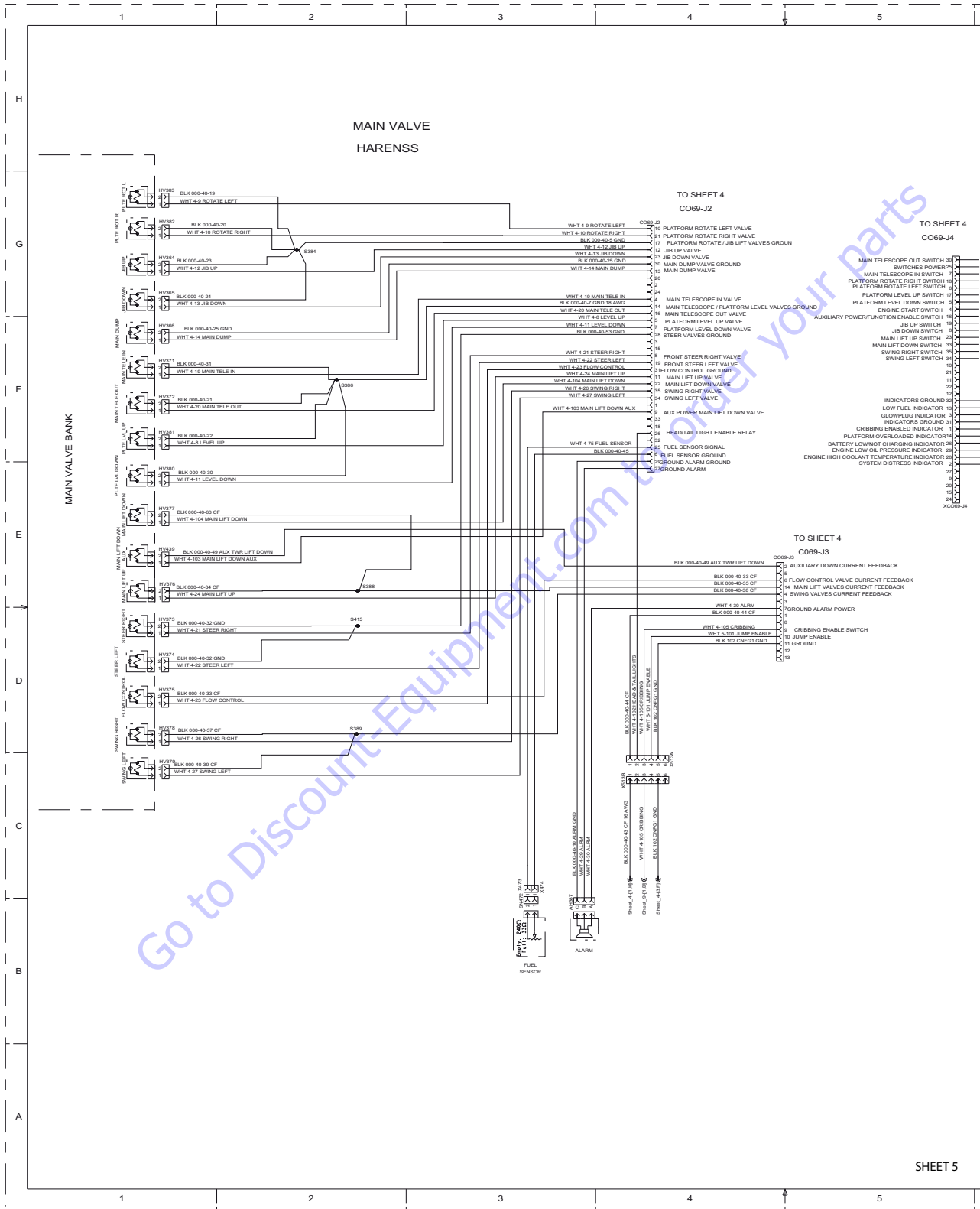


Figure 7-105. Electrical Schematic - Sheet 7 of 25



**SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS**



**Figure 7-106. Electrical Schematic - Sheet 8 of 25**

SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS

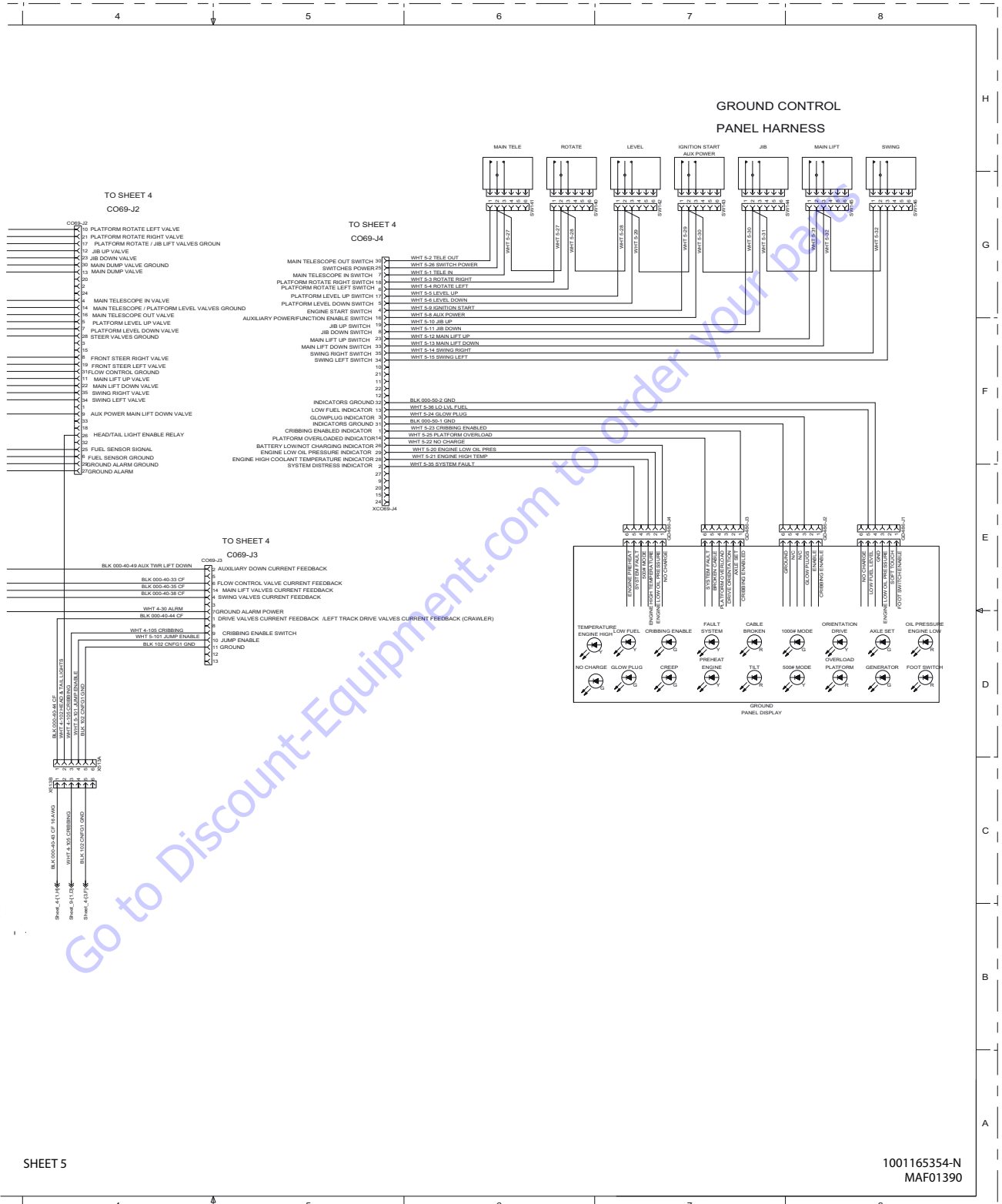


Figure 7-107. Electrical Schematic - Sheet 9 of 25

SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS

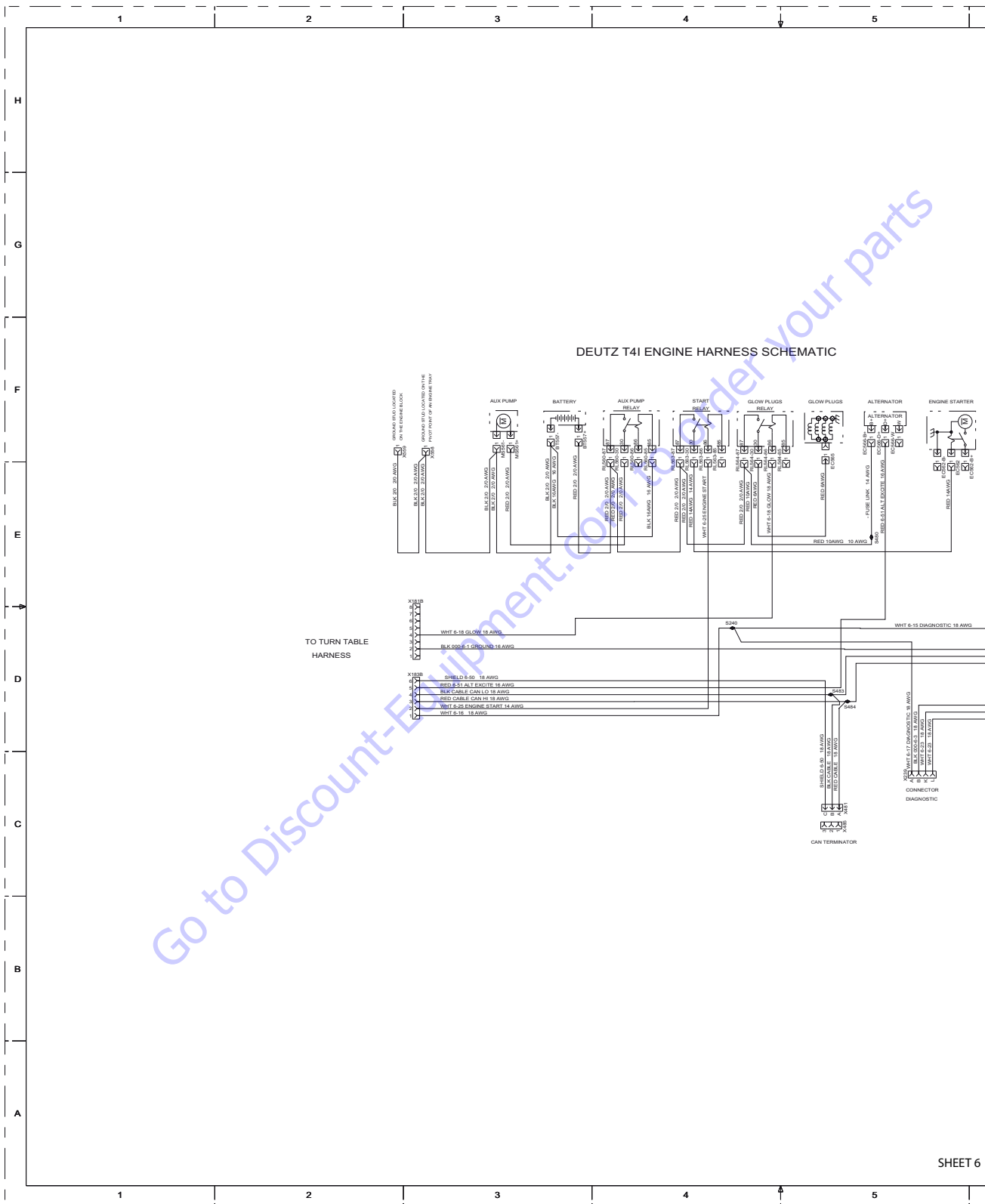
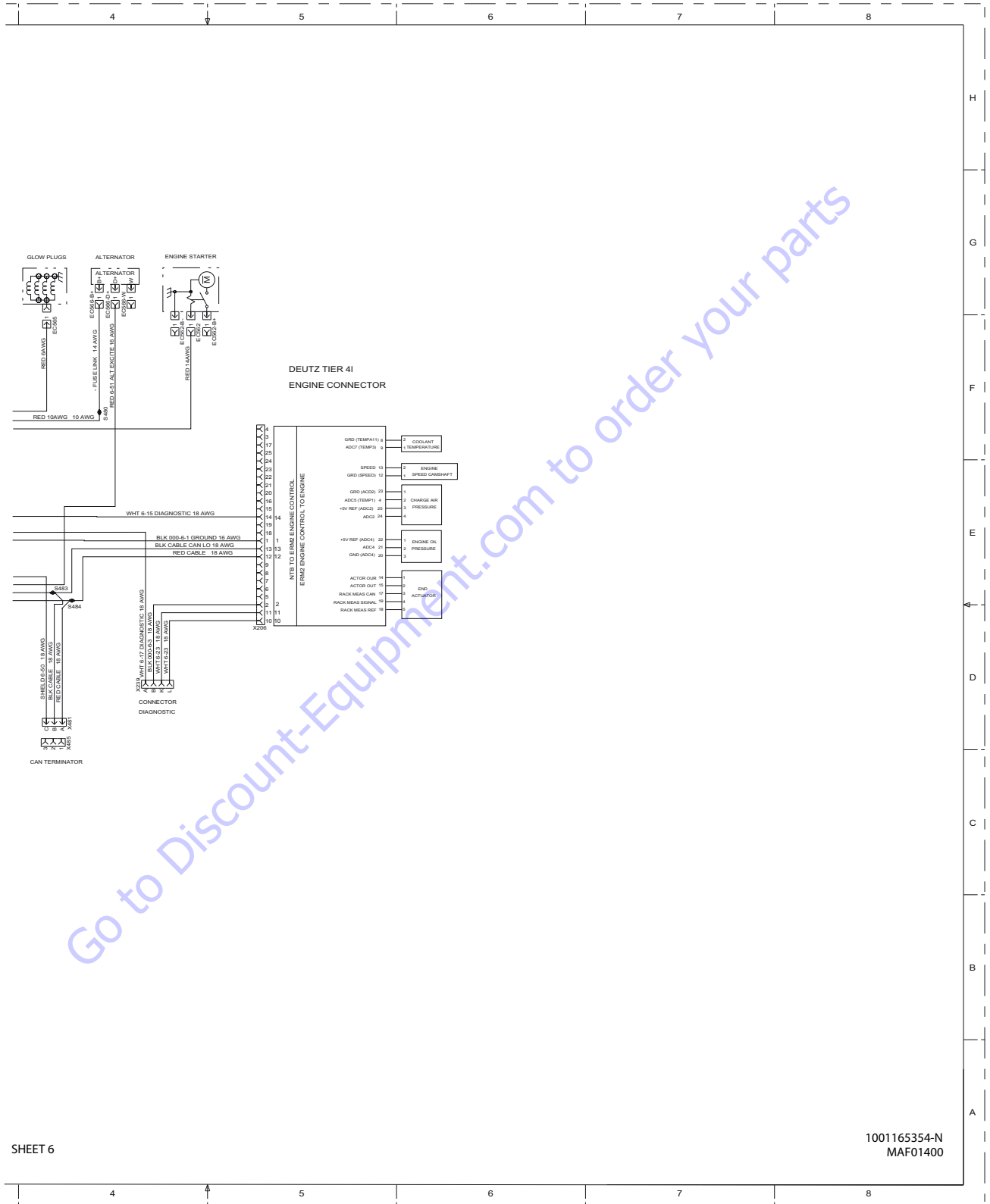


Figure 7-108. Electrical Schematic - Sheet 10 of 25



SHEET 6

1001165354-N  
MAF01400

Figure 7-109. Electrical Schematic - Sheet 11 of 25

# SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS

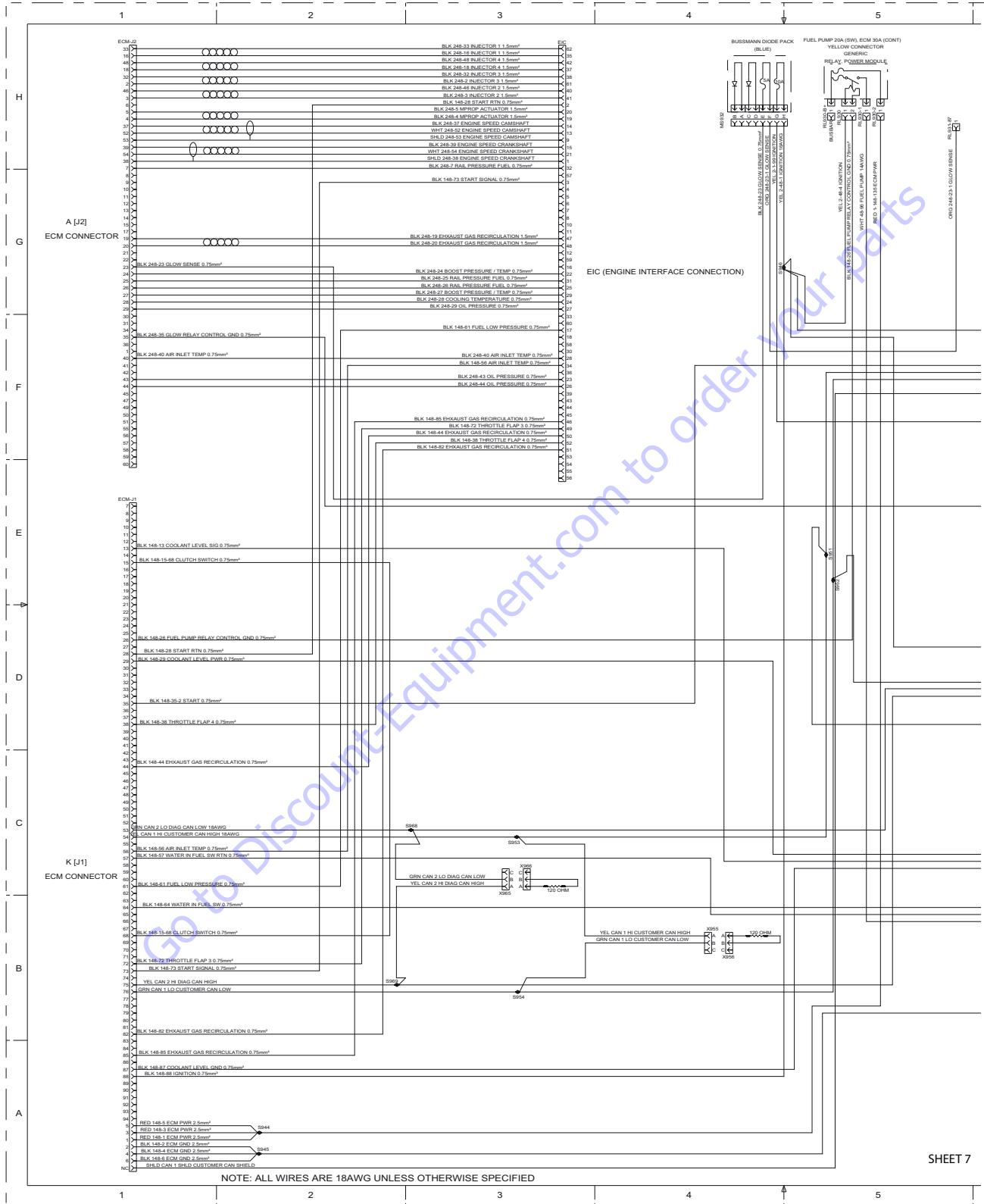


Figure 7-110. Electrical Schematic - Sheet 12 of 25

# SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS

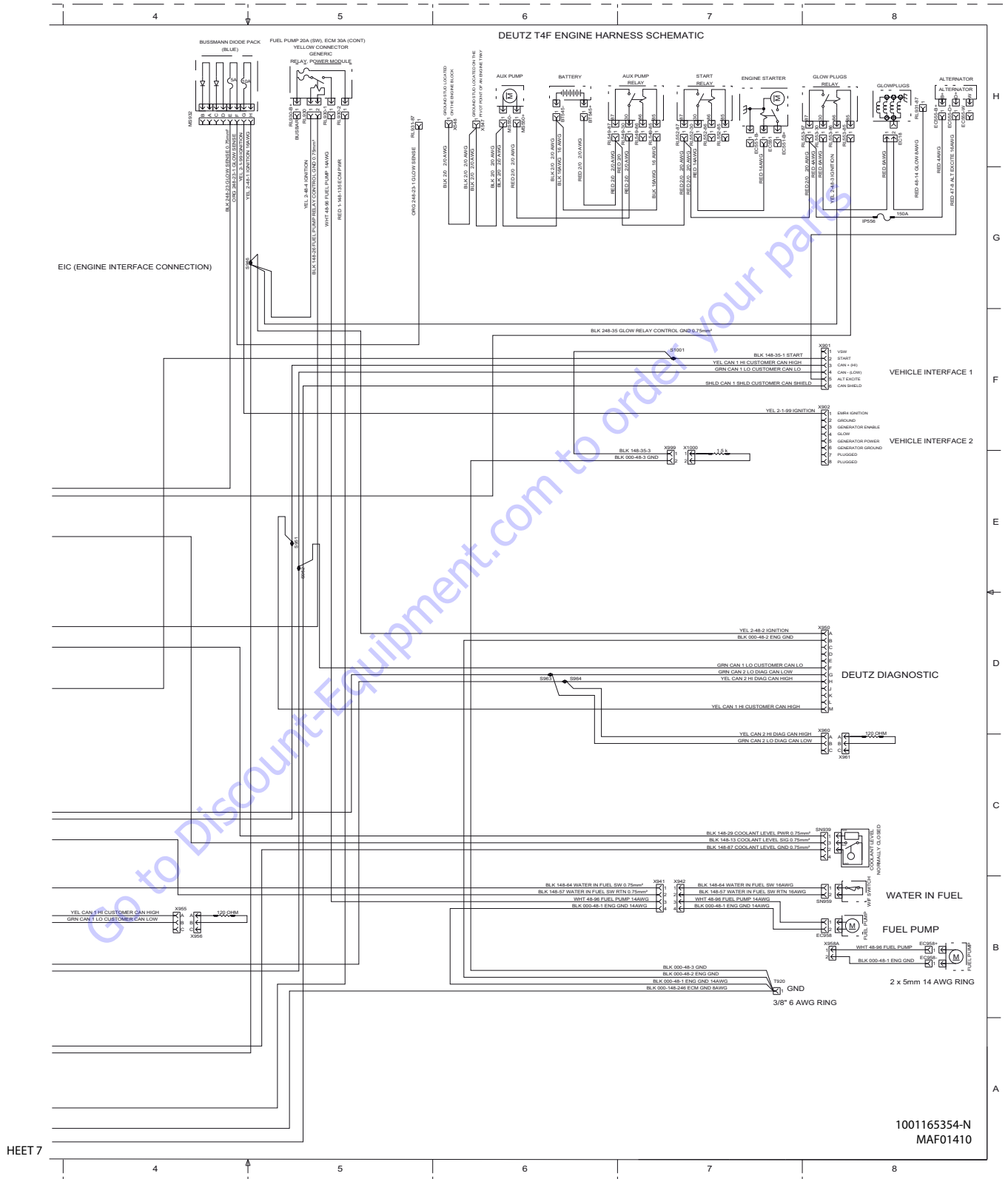
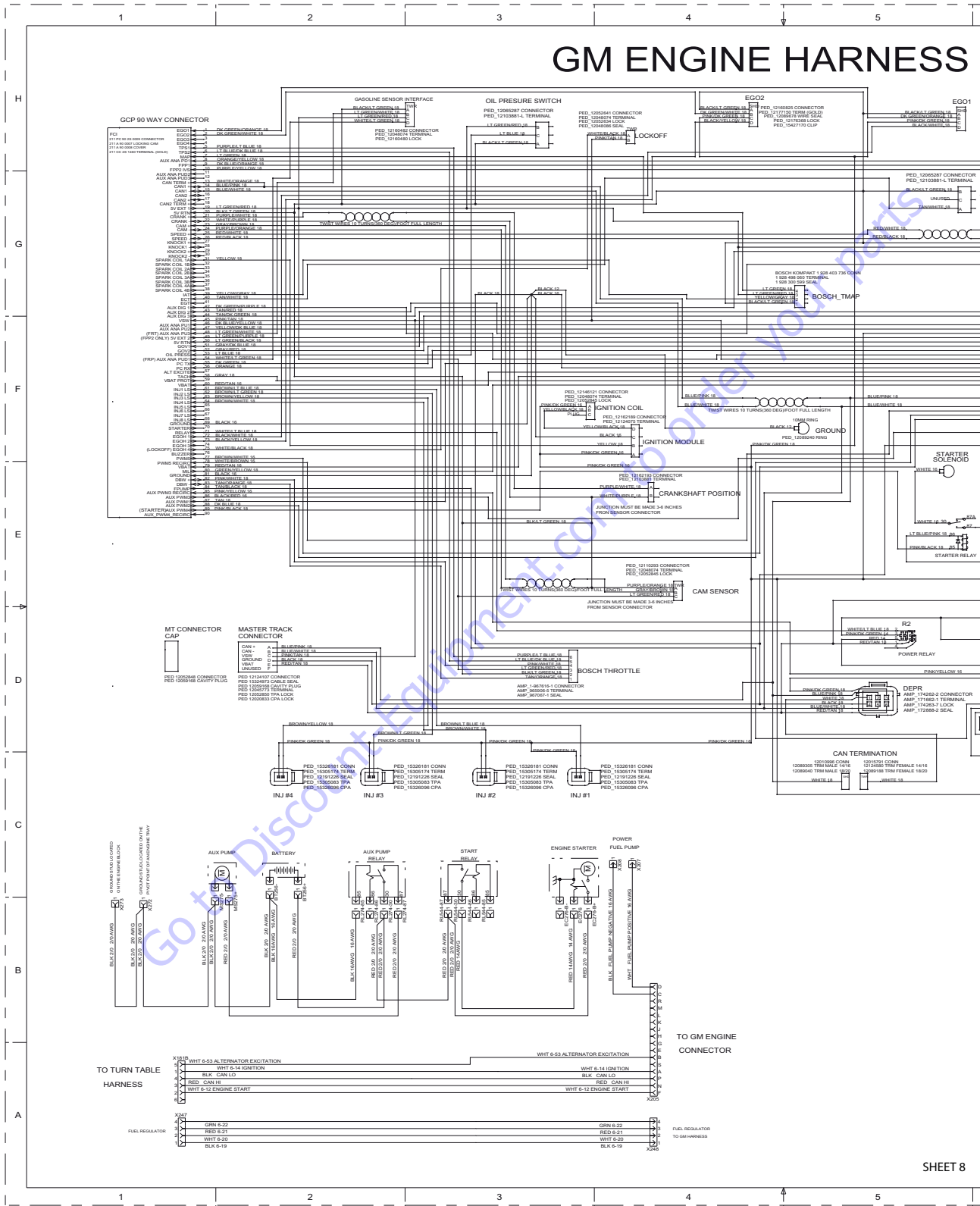


Figure 7-111. Electrical Schematic - Sheet 13 of 25

**SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS**



**Figure 7-112. Electrical Schematic - Sheet 14 of 25**

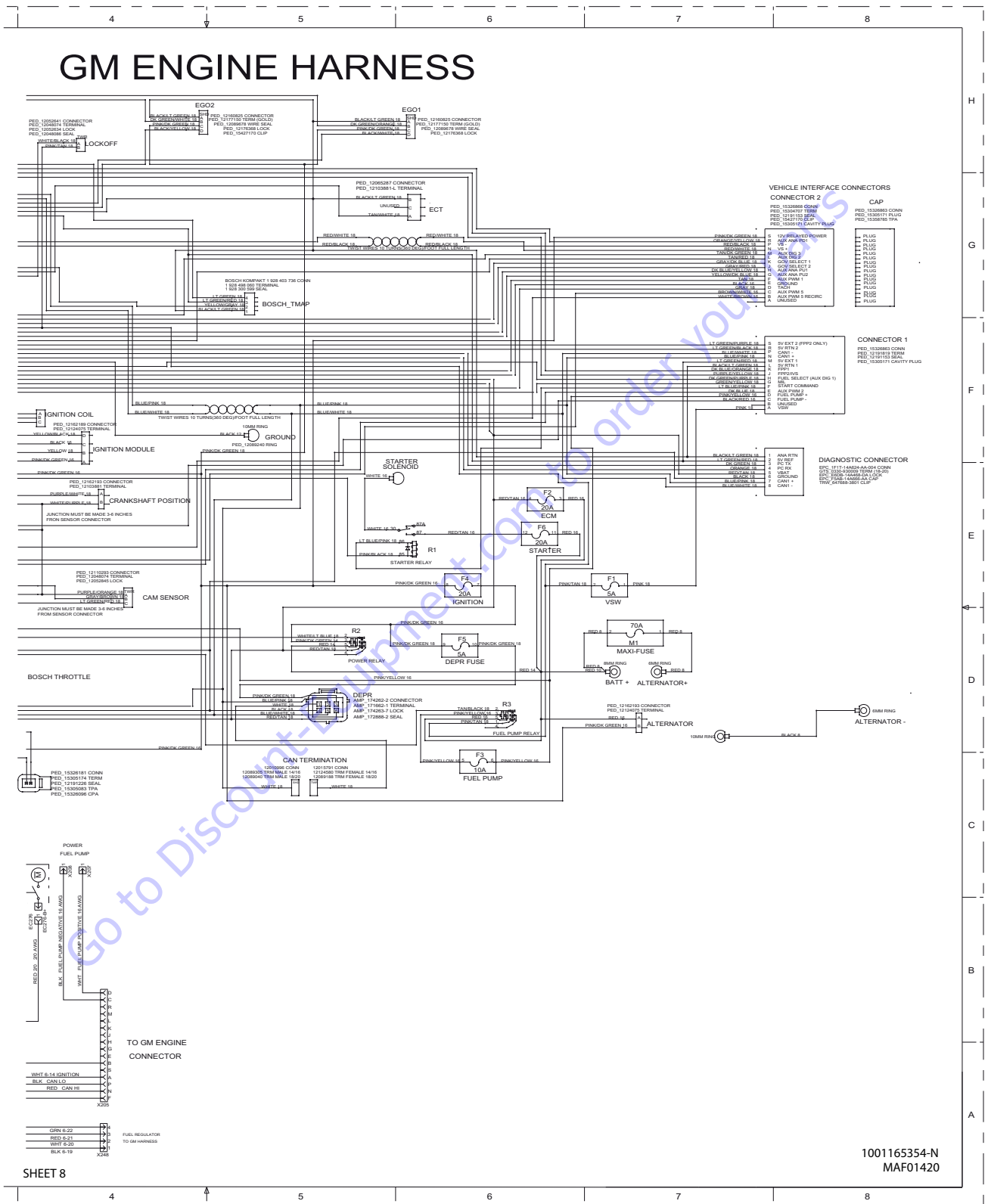
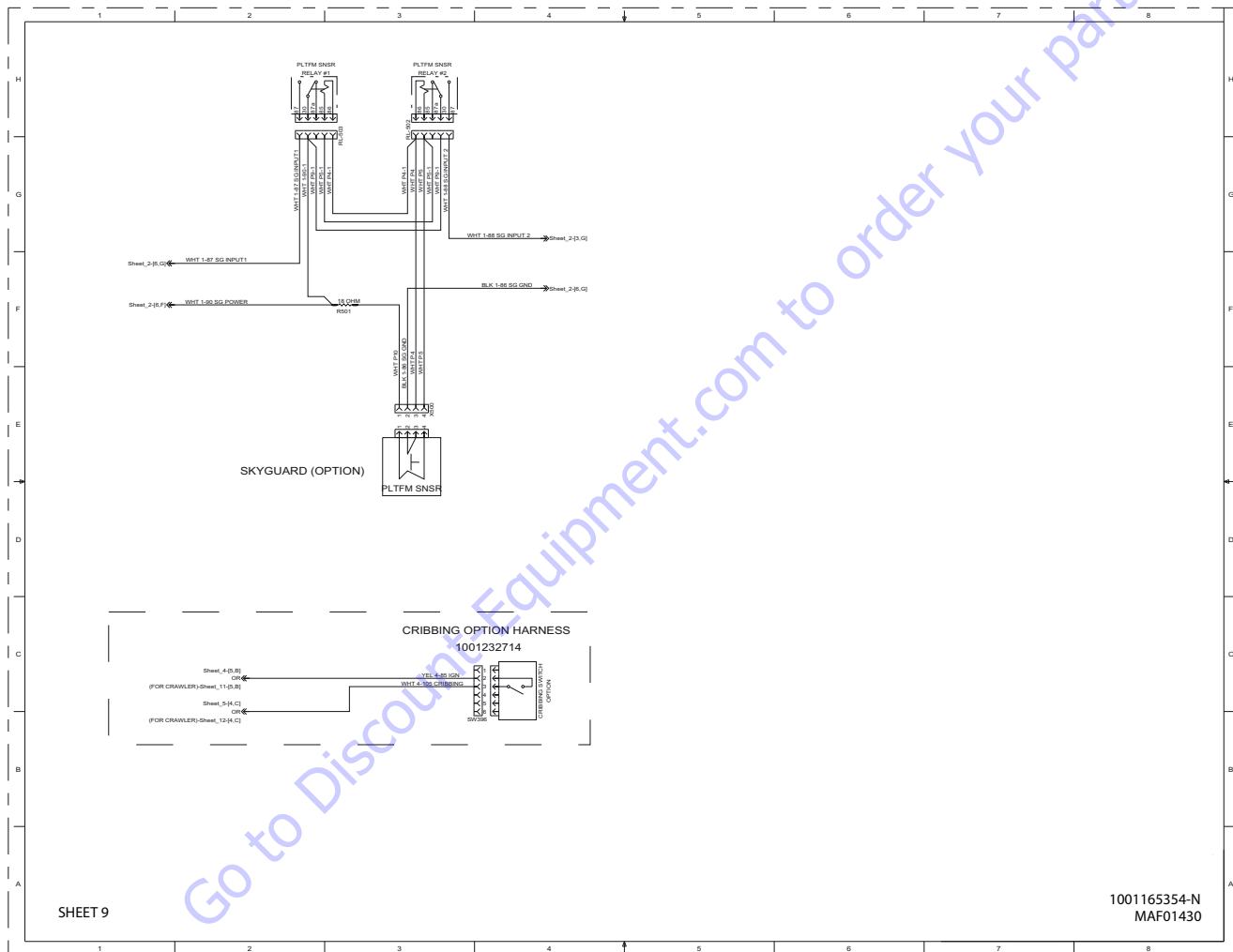


Figure 7-113. Electrical Schematic - Sheet 15 of 25



**SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS**

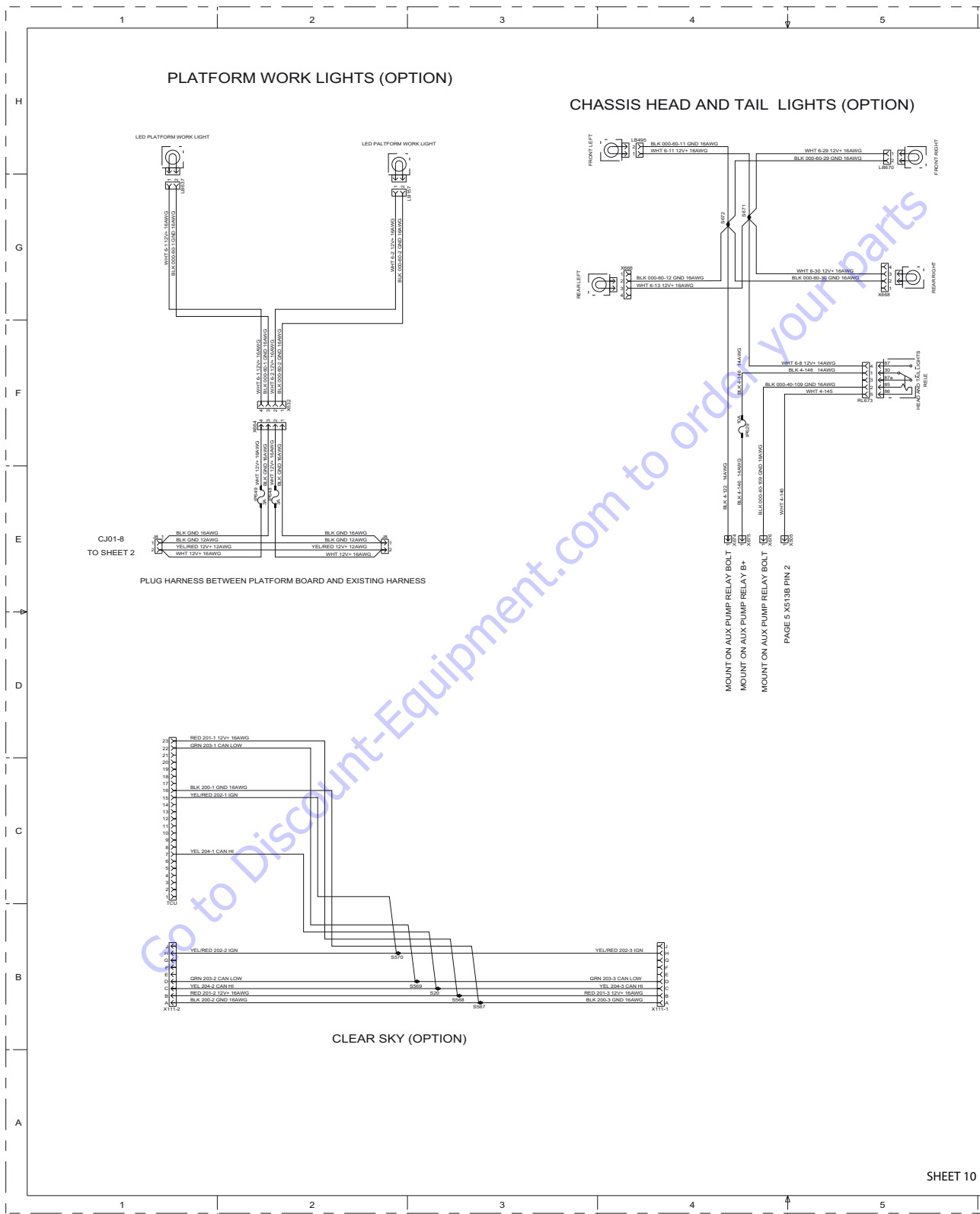


SHEET 9

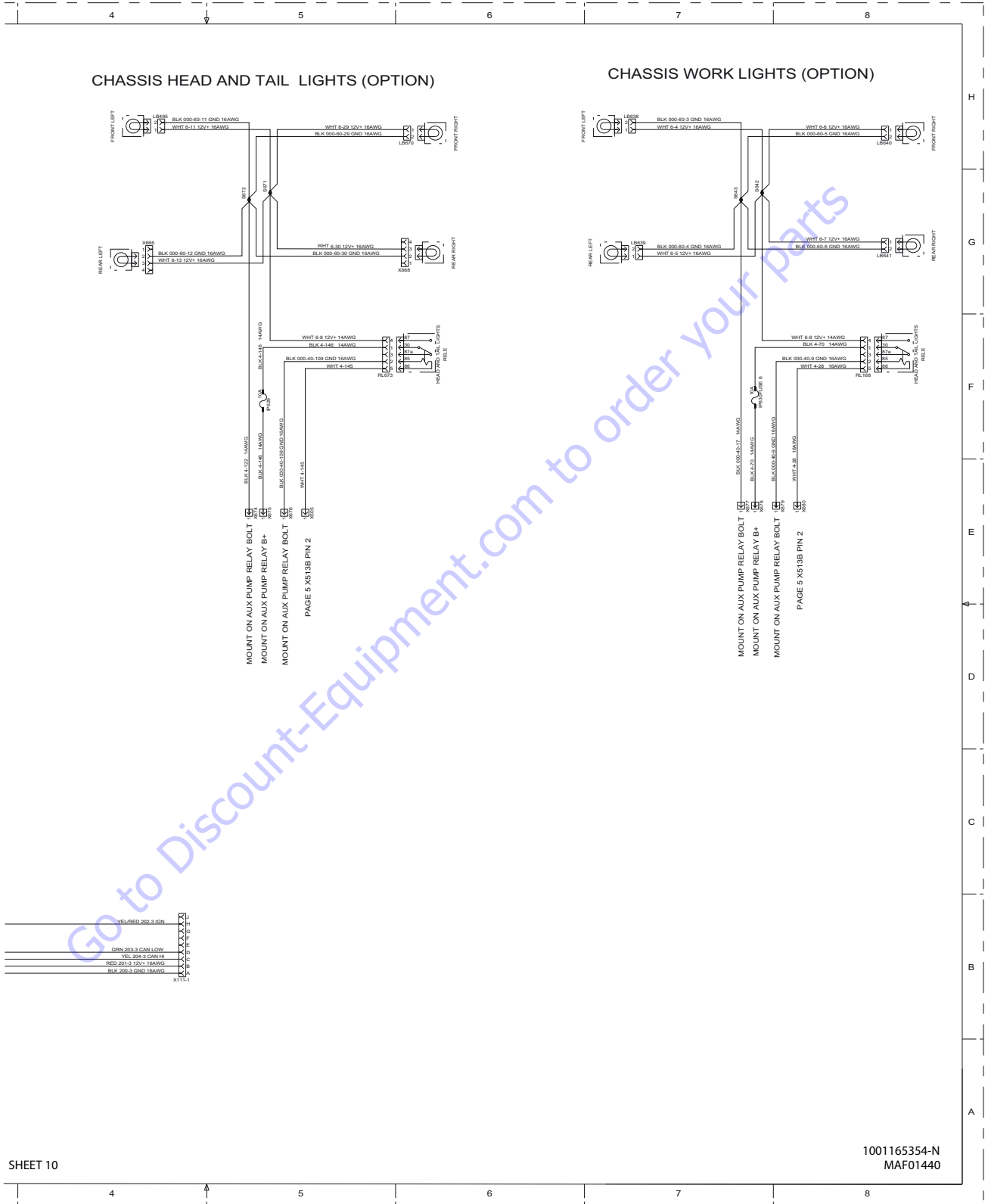
1001165354-N  
MAF01430

**Figure 7-114. Electrical Schematic - Sheet 16 of 25**

**SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS**



**Figure 7-115. Electrical Schematic - Sheet 17 of 25**



SHEET 10

1001165354-N  
 MAF01440

Figure 7-116. Electrical Schematic - Sheet 18 of 25

# SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS

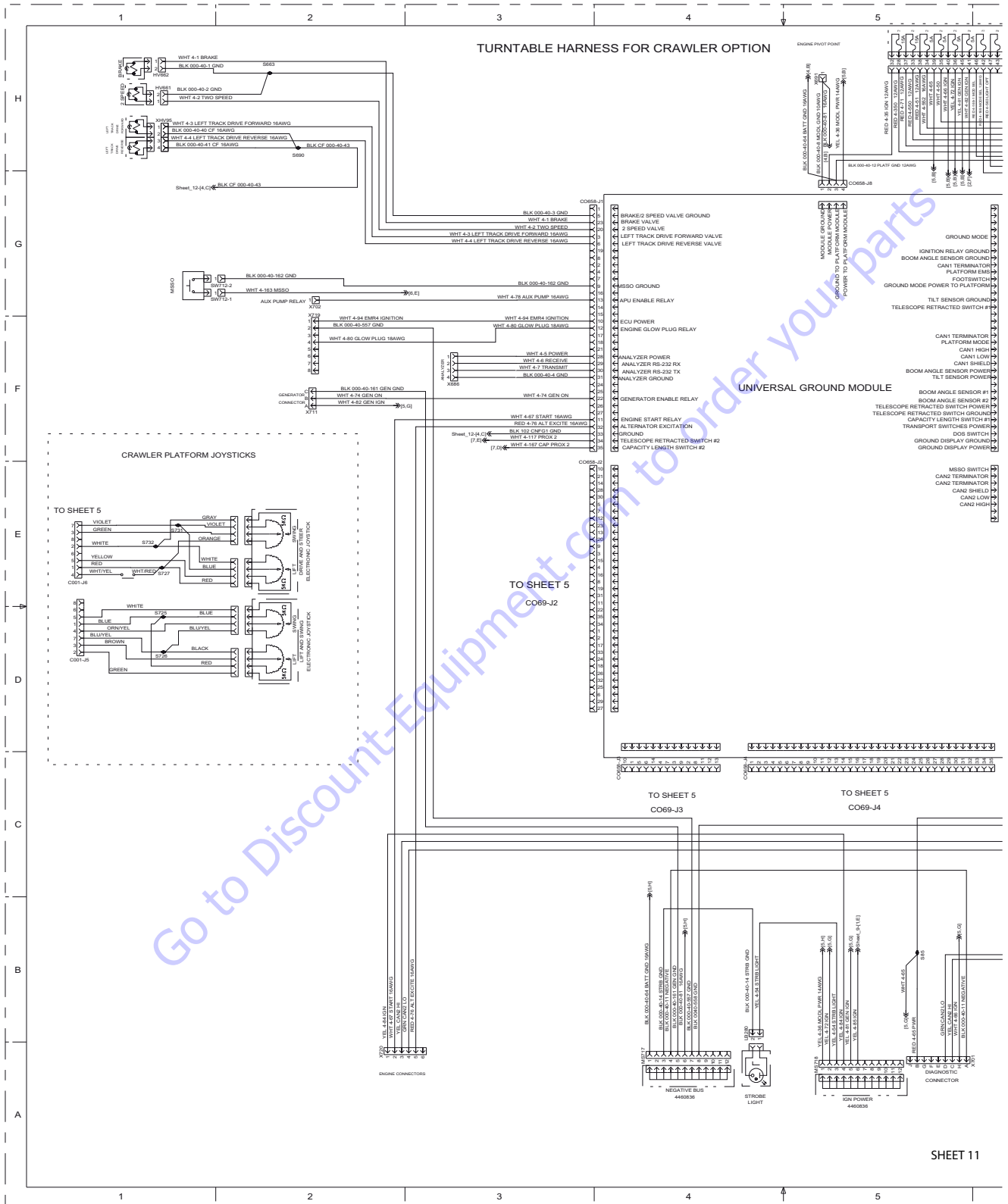


Figure 7-117. Electrical Schematic - Sheet 19 of 25

SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS

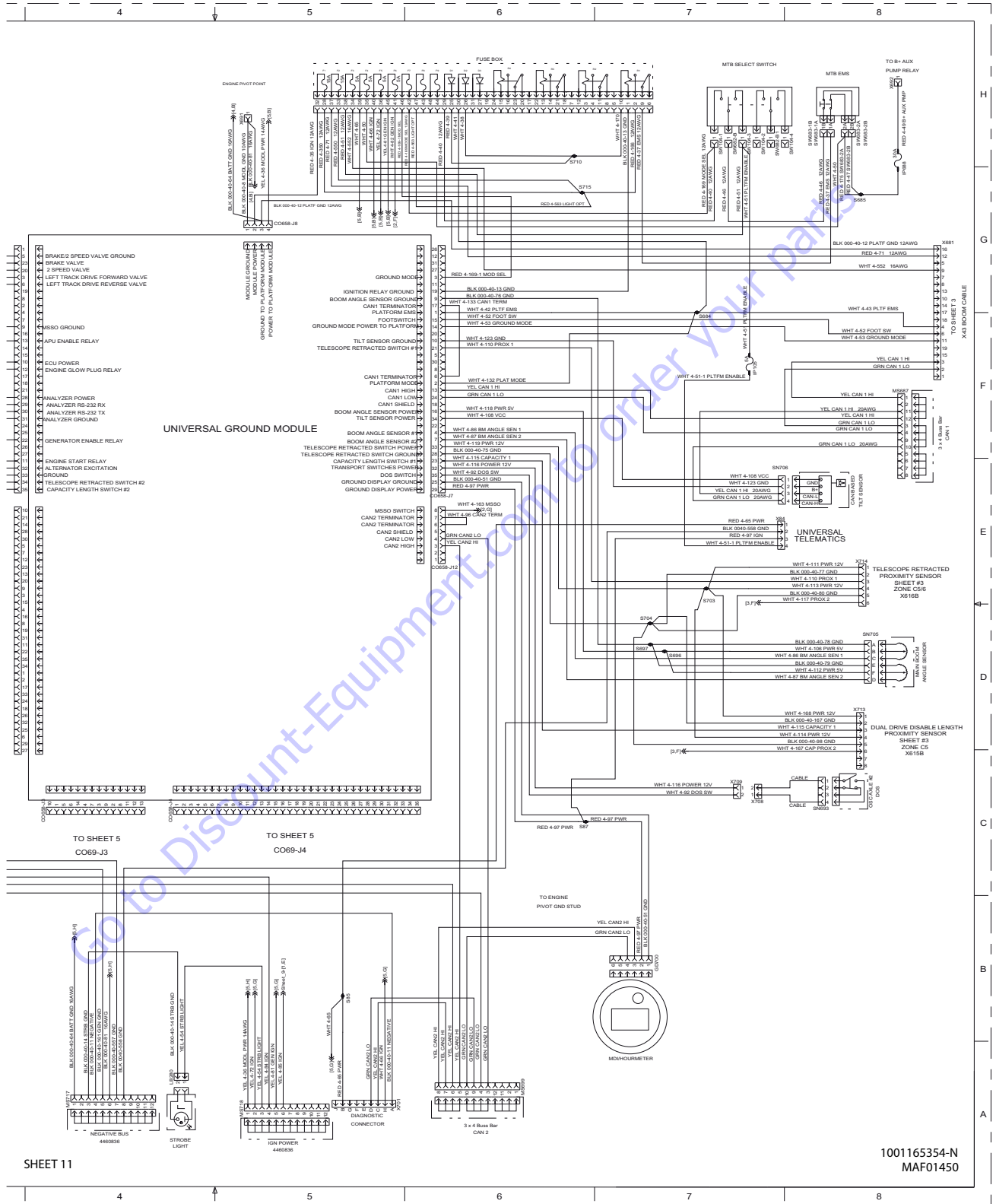
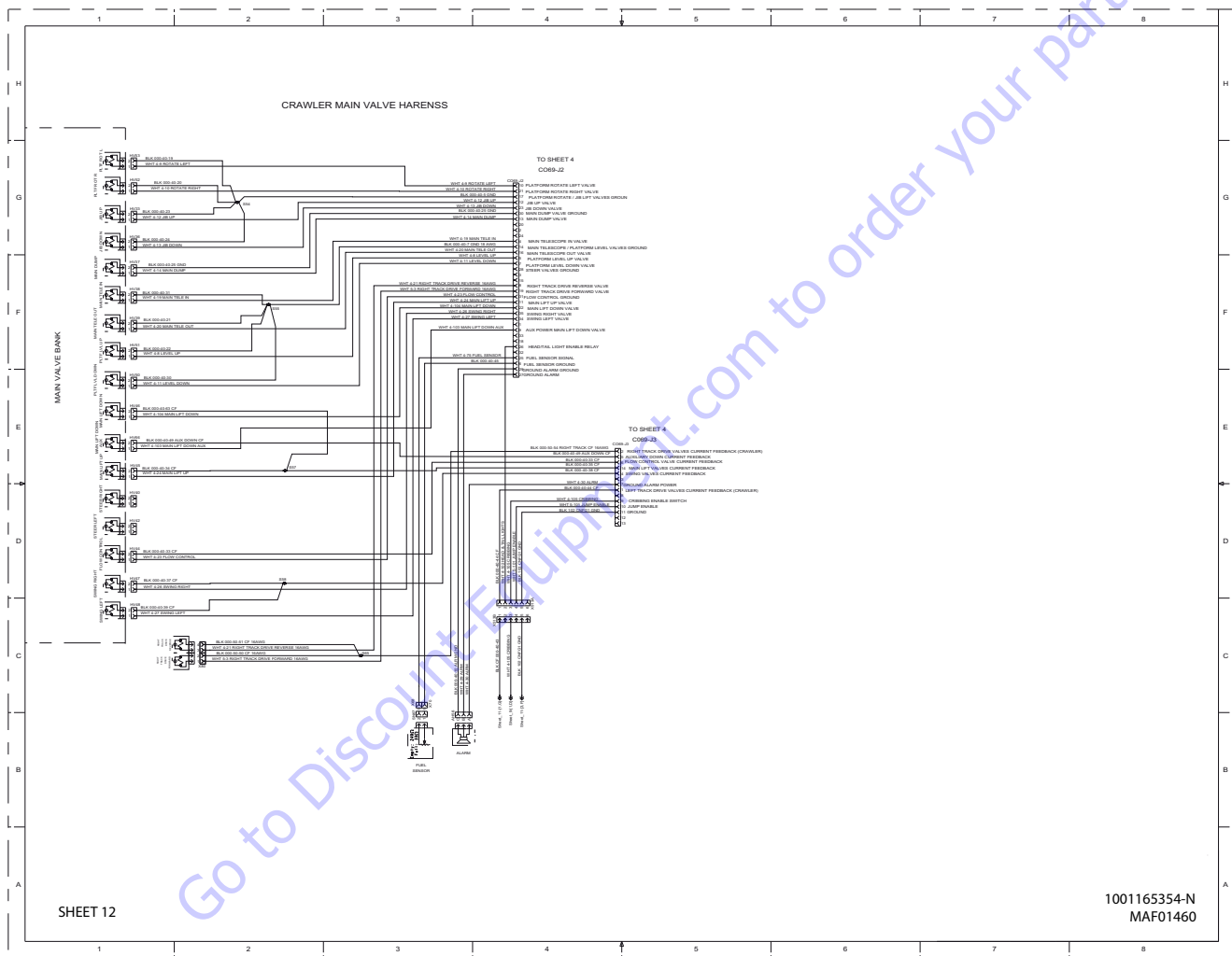


Figure 7-118. Electrical Schematic - Sheet 20 of 25

**SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS**



**Figure 7-119. Electrical Schematic - Sheet 21 of 25**

# SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS

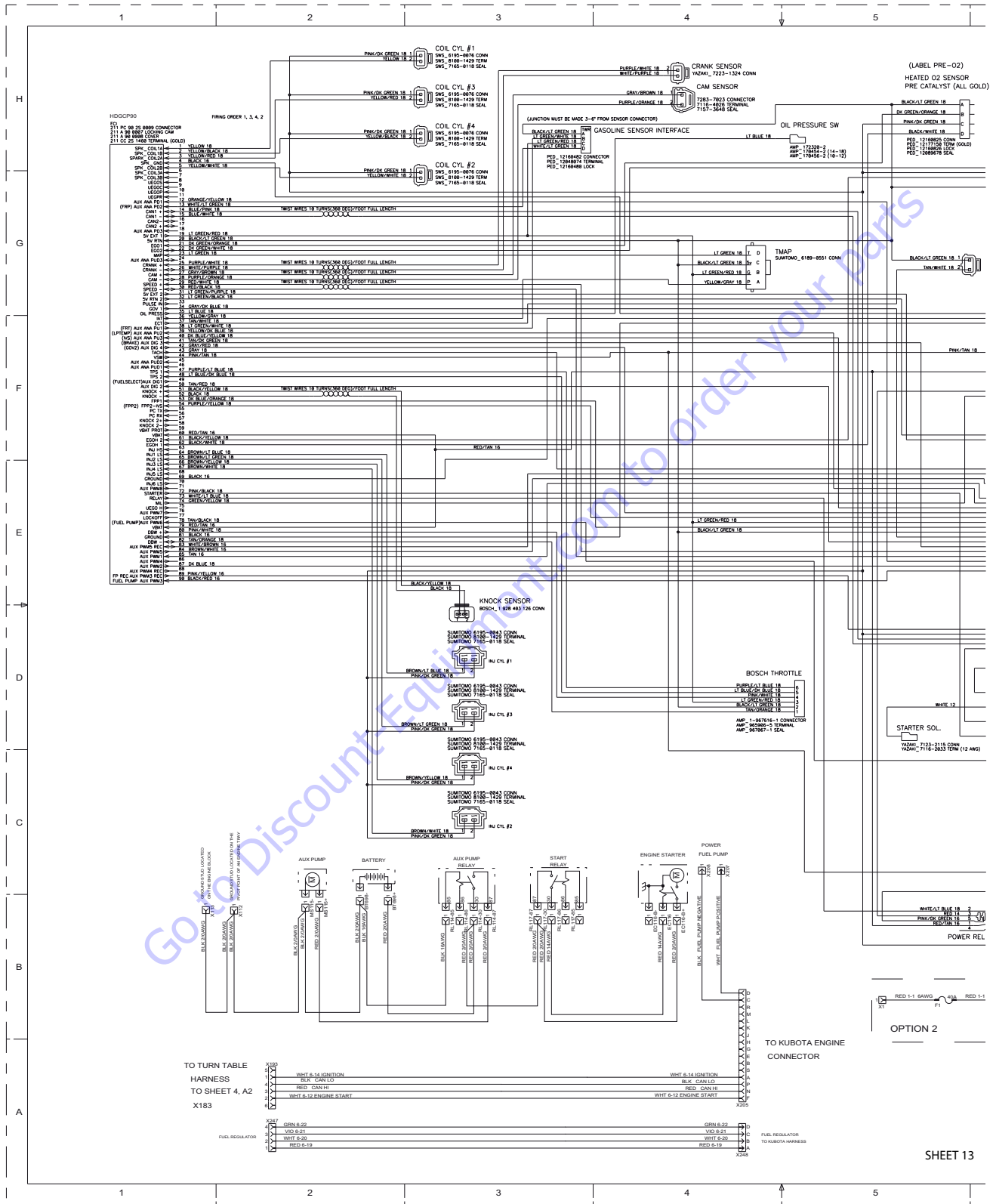


Figure 7-120. Electrical Schematic - Sheet 22 of 25

# SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS

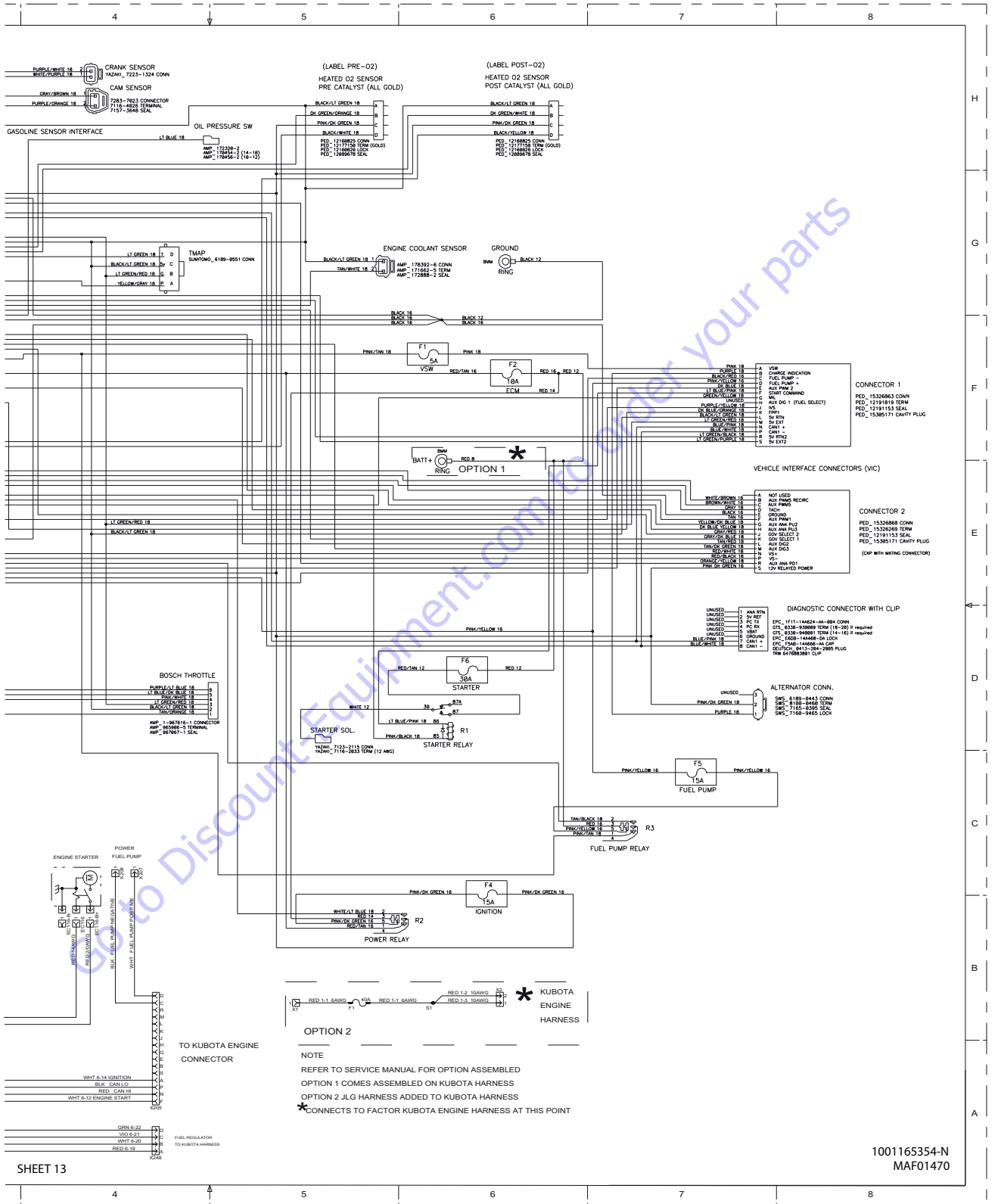


Figure 7-121. Electrical Schematic - Sheet 23 of 25



**SECTION 7 - BASIC ELECTRICAL INFORMATION & SCHEMATICS**

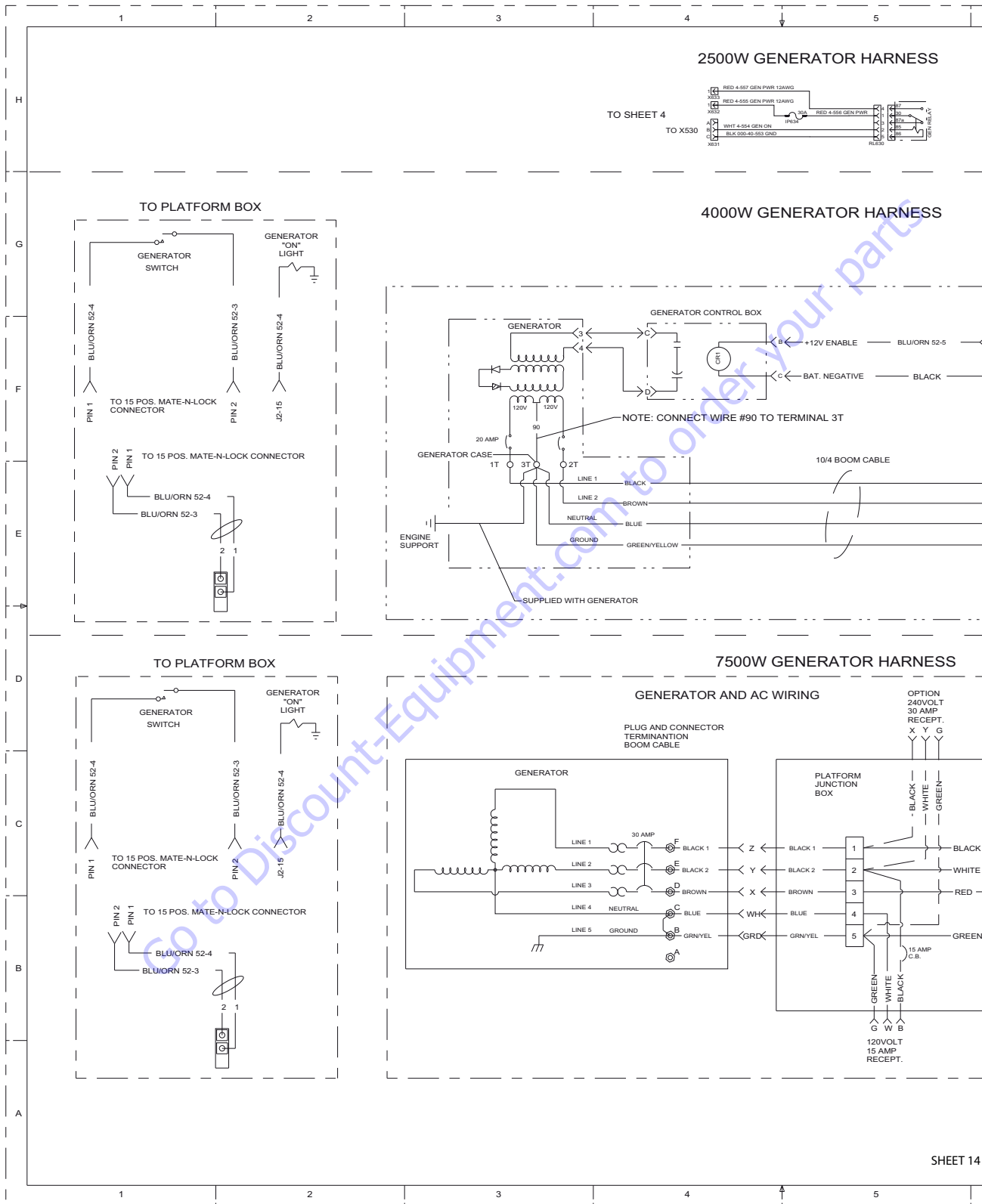


Figure 7-122. Electrical Schematic - Sheet 24 of 25

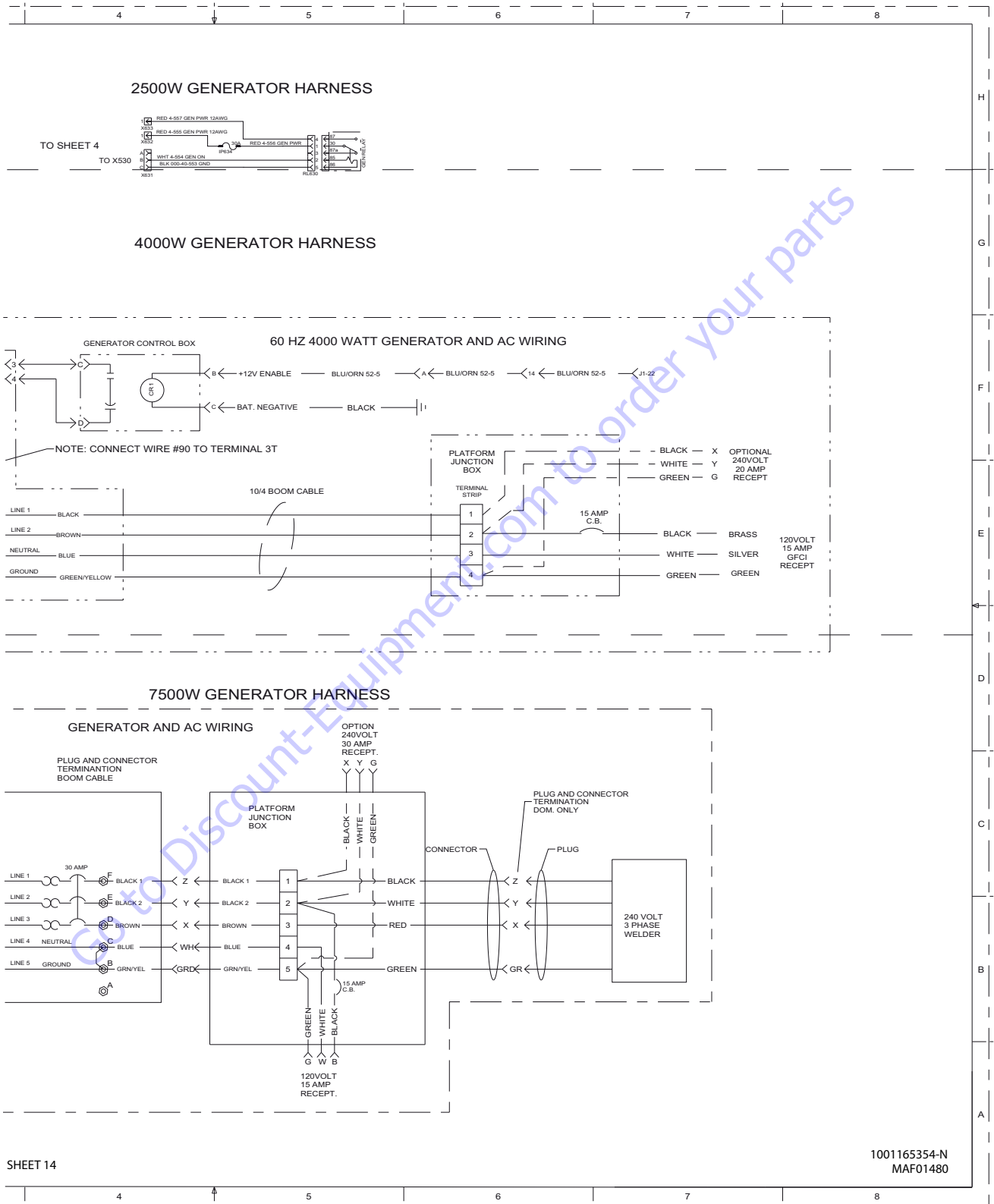


Figure 7-123. Electrical Schematic - Sheet 25 of 25

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