

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

X445A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	61-1-2 5V	18 AWG	GXL	MS244 (8)
2	WHT	38-1 RLFT ASWG	18 AWG	GXL	CO03-J3 (13)
3	BLK	00-15	18 AWG	GXL	CO03-J3 (3)

X448B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	61-1-3 5V	18 AWG	GXL	MS244 (4)
2	WHT	38-9 RAXS RHT	18 AWG	GXL	CO03-J1 (15)
3	BLK	00-8-1	18 AWG	GXL	S195 (2)

X337A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	LFT FRNT STR	18 AWG	CABLE	CO03-J7 (10)
2	RED	LFT FRNT STR	18 AWG	CABLE	CO03-J7 (26)
3	BLU	LFT FRONT STR	18 AWG	CABLE	CO03-J7 (7)
4	SHIELD	SHLD	18 AWG	SHLD	S424 (2)

X339A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	LFT REAR STR	18 AWG	CABLE	CO03-J7 (28)
2	RED	LFT REAR STR	18 AWG	CABLE	CO03-J7 (5)
3	BLU	LFT REAR STR	18 AWG	CABLE	CO03-J7 (8)
4	SHIELD	SHLD	18 AWG	SHLD	S424 (2)

HV163 (REAR AXLE SWG EXT)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	38-4 RAXS EXT	18 AWG	GXL	CO03-J2 (5)
2	WHT	60-5-1 RAXS RTN	18 AWG	GXL	S168 (2)

HV173 (LEFT FRONT STR LFT)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	9-3 LFRNT STRL	18 AWG	GXL	CO03-J2 (34)
2	BLK	00-4-2	18 AWG	GXL	S202 (2)

HV176 (LEFT REAR STR RHT)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	9-7 LREAR STRR	18 AWG	GXL	CO03-J2 (9)
2	BLK	00-6-1	18 AWG	GXL	S204 (2)

HV164 (REAR AXLE SWG RET)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	38-6 RAXS RET	18 AWG	GXL	CO03-J2 (7)
2	WHT	60-5-2 RAXS RTN	18 AWG	GXL	S168 (2)

HV172 (LEFT FRONT STR RHT)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	9-2 LFRNT STRR	18 AWG	GXL	CO03-J2 (35)
2	BLK	00-4-1	18 AWG	GXL	S202 (2)

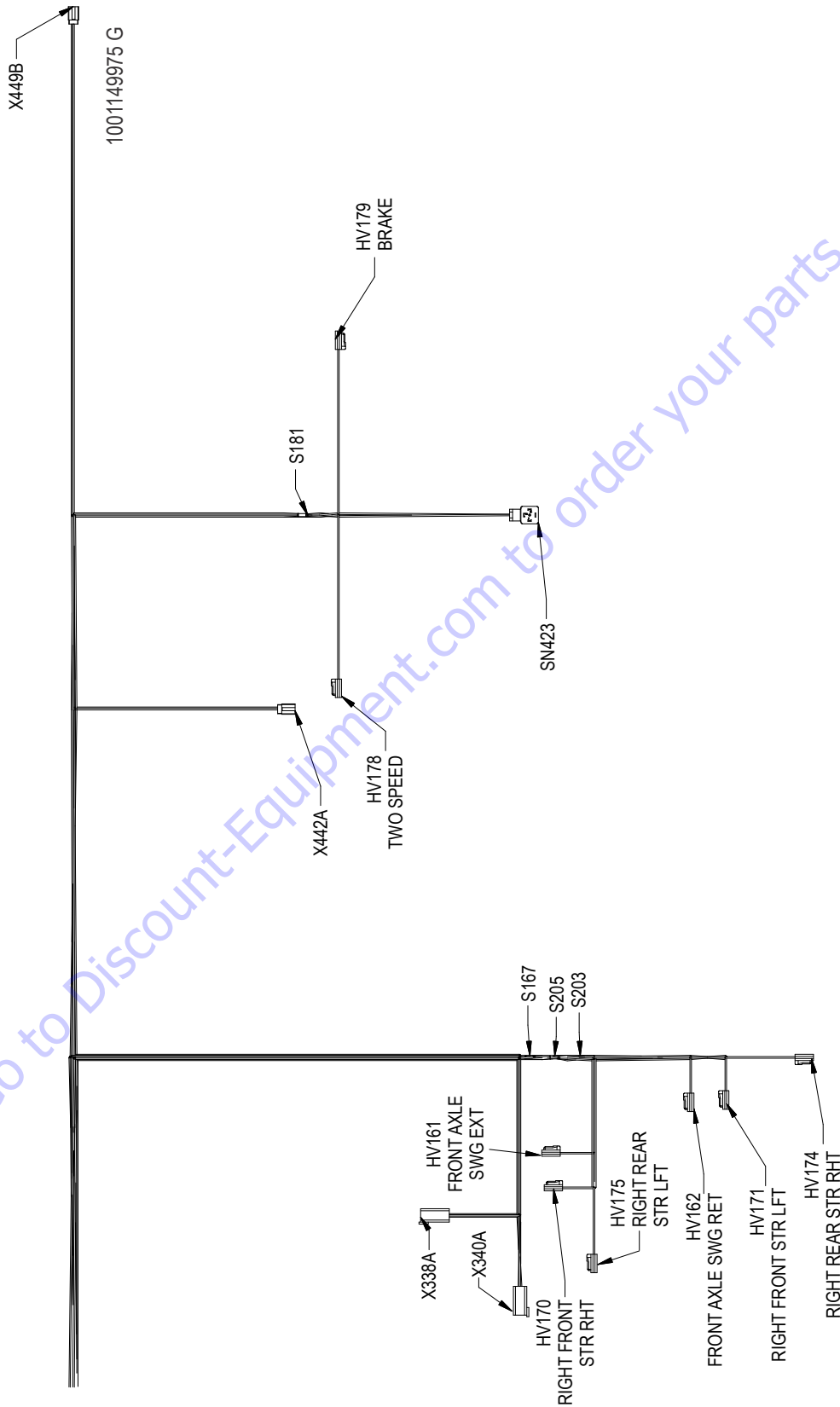
HV177 (LEFT REAR STR LFT)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	9-8 LREAR STRL	18 AWG	GXL	CO03-J2 (20)
2	BLK	00-6-2	18 AWG	GXL	S204 (2)

S168					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	60-5 RAXS RTN	18 AWG	GXL	CO03-J3 (2)
2	WHT	60-5-1 RAXS RTN	18 AWG	GXL	HV163 (2)
2	WHT	60-5-2 RAXS RTN	18 AWG	GXL	HV164 (2)

S202					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	00-4	18 AWG	GXL	CO03-J2 (28)
2	BLK	00-4-1	18 AWG	GXL	HV172 (2)
2	BLK	00-4-2	18 AWG	GXL	HV173 (2)

S204					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	00-6	18 AWG	GXL	CO03-J2 (30)
1	WHT	60-4 FAXS RTN	18 AWG	GXL	-
2	BLK	00-6-1	18 AWG	GXL	HV176 (2)
2	BLK	00-6-2	18 AWG	GXL	HV177 (2)

**Figure 7-176. Chassis Harness - Sheet 6 of 10**



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Figure 7-177. Chassis Harness - Sheet 7 of 10

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

X338A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	RHT REAR STR	18 AWG	CABLE	CO03-J7 (25)
2	RED	RHT REAR STR	18 AWG	CABLE	CO03-J7 (27)
3	BLU	RHT REAR STR	18 AWG	CABLE	CO03-J7 (20)
4	SHIELD	SHLD	18 AWG	SHLD	S424 (2)

X340A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	RHT FRNT STR	18 AWG	CABLE	CO03-J7 (9)
2	RED	RHT FRNT STR	18 AWG	CABLE	CO03-J7 (16)
3	BLU	RHT FRNT STR	18 AWG	CABLE	CO03-J7 (4)
4	SHIELD	SHLD	18 AWG	SHLD	S424 (2)

HV175 (RIGHT REAR STR LFT)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	9-6 RREAR STRL	18 AWG	GXL	CO03-J2 (19)
2	BLK	00-5-2	18 AWG	GXL	S203 (2)

HV170 (RIGHT FRONT STR RHT)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	9-4 RFRNT STRR	18 AWG	GXL	CO03-J2 (11)
2	BLK	00-3-1	18 AWG	GXL	S205 (2)

HV161 (FRONT AXLE SWG EXT)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	38-2 FAXS EXT	18 AWG	GXL	CO03-J2 (4)
2	WHT	60-4-1 FAXS RTN	18 AWG	GXL	S167 (2)

HV162 (FRONT AXLE SWG RET)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	38-3 FAXS RET	18 AWG	GXL	CO03-J2 (16)
2	WHT	60-4-2 FAXS RET	18 AWG	GXL	S167 (2)

HV171 (RIGHT FRONT STR LFT)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	9-1 RFRNT STRL	18 AWG	GXL	CO03-J2 (22)
2	BLK	00-3-2	18 AWG	GXL	S205 (2)

HV174 (RIGHT REAR STR RHT)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	9-5 RREAR STRR	18 AWG	GXL	CO03-J2 (8)
2	BLK	00-5-1	18 AWG	GXL	S203 (2)

S203					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	00-5	18 AWG	GXL	CO03-J2 (18)
2	BLK	00-5-1	18 AWG	GXL	HV174 (2)
2	BLK	00-5-2	18 AWG	GXL	HV175 (2)

S205					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	00-3	18 AWG	GXL	CO03-J2 (17)
2	BLK	00-3-1	18 AWG	GXL	HV170 (2)
2	BLK	00-3-2	18 AWG	GXL	HV171 (2)

**Figure 7-178. Chassis Harness - Sheet 8 of 10**

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

S167					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	60-4 FAXS RTN	18 AWG	GXL	CO03-J3 (1)
2	WHT	60-4-1 FAXS RTN	18 AWG	GXL	HV161 (2)
2	WHT	60-4-2 FAXS RTN	18 AWG	GXL	HV162 (2)

X442A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	61-1-1 5V	18 AWG	GXL	MS244 (7)
2	WHT	38-5 FAXS RHT	18 AWG	GXL	CO03-J2 (25)
3	BLK	00-2	18 AWG	GXL	CO03-J2 (6)

HV178 (TWO SPEED)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-13 2 SPD	18 AWG	GXL	CO03-J2 (1)
2	BLK	00-1-1	18 AWG	GXL	S181 (2)

SN423					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	49-71 HYD OC RTN	18 AWG	GXL	CO03-J7 (32)
2	WHT	49-70 HYD OC	18 AWG	GXL	CO03-J7 (12)

S181					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	00-1	18 AWG	GXL	CO03-J2 (14)
2	BLK	00-1-1	18 AWG	GXL	HV178 (2)
2	BLK	00-1-2	18 AWG	GXL	HV179 (2)

HV179 (BRAKE)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	55-14 BRAKE	18 AWG	GXL	CO03-J2 (13)
2	BLK	00-1-2	18 AWG	GXL	S181 (2)

X449B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	61-1-4 5V	18 AWG	GXL	MS244 (3)
2	WHT	38-10 FAXS LFT	18 AWG	GXL	CO03-J1 (14)
3	BLK	00-8-2	18 AWG	GXL	S195 (2)

**Figure 7-179. Chassis Harness - Sheet 9 of 10**

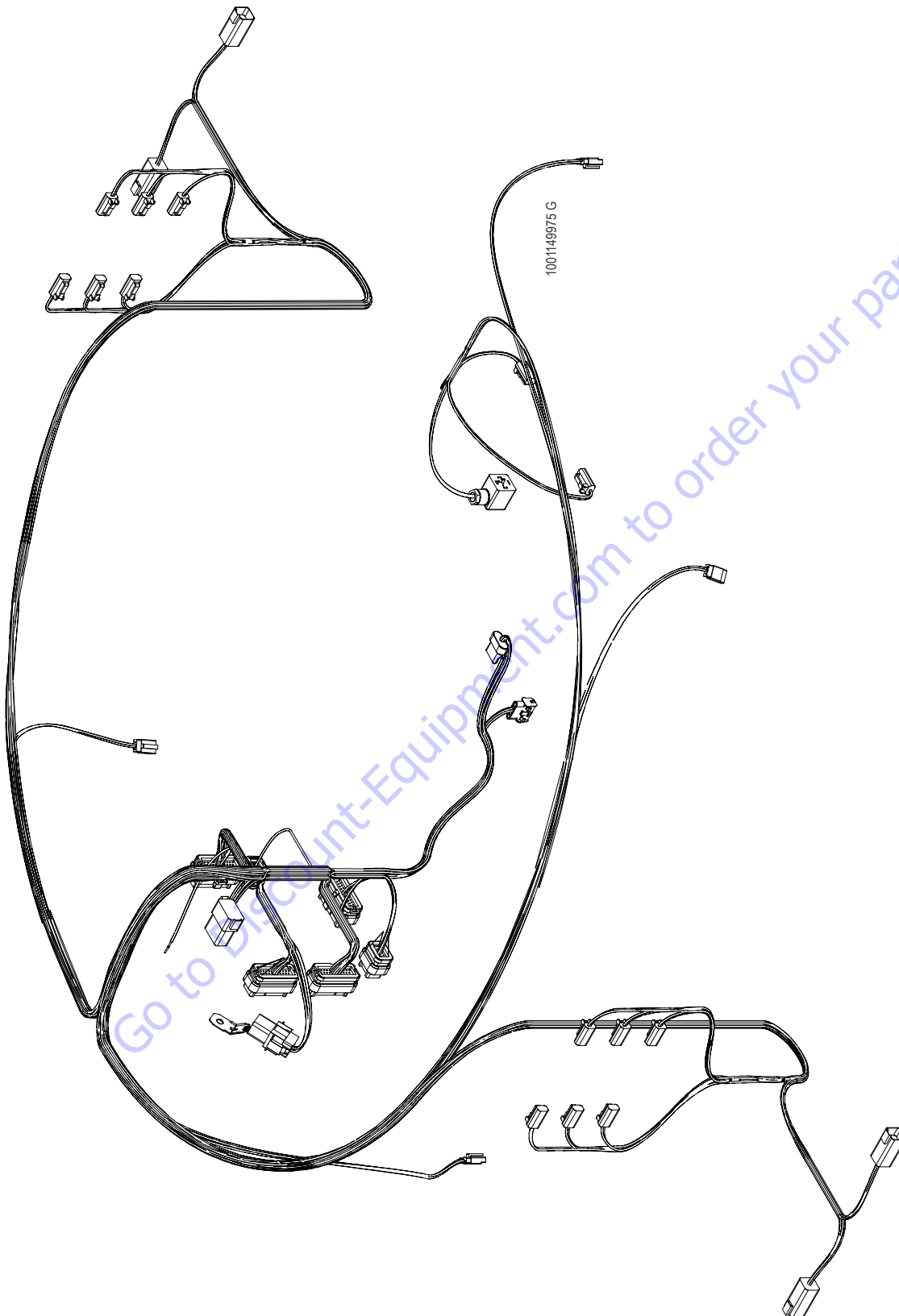


Figure 7-180. Chassis Harness - Sheet 10 of 10

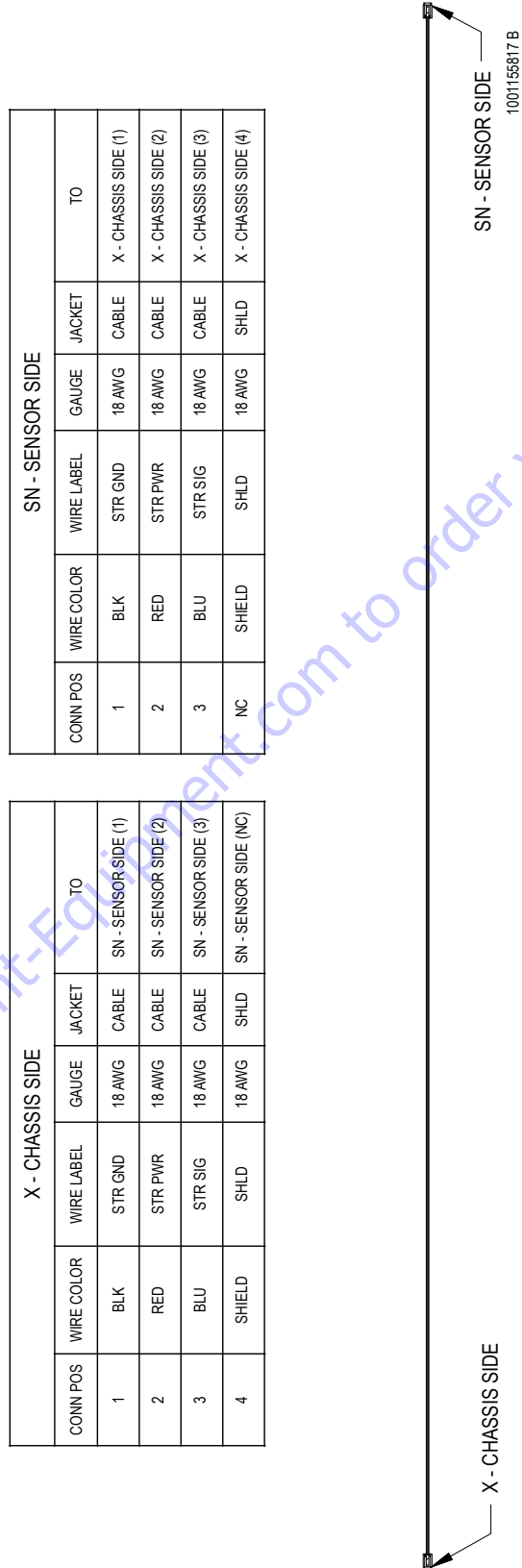


Figure 7-181. Steer Cable

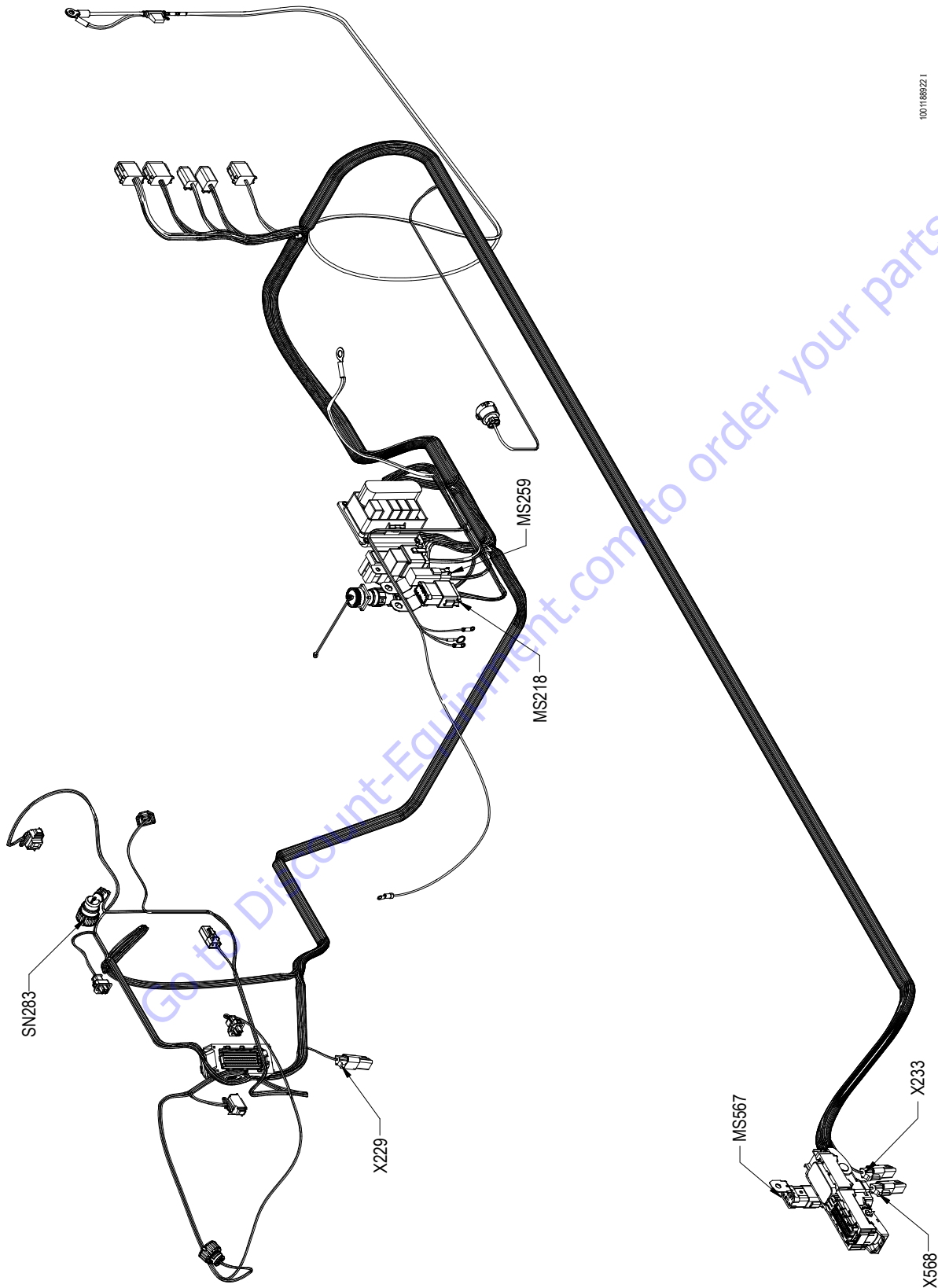


Figure 7-182. Engine T4F Harness - Sheet 1 of 15

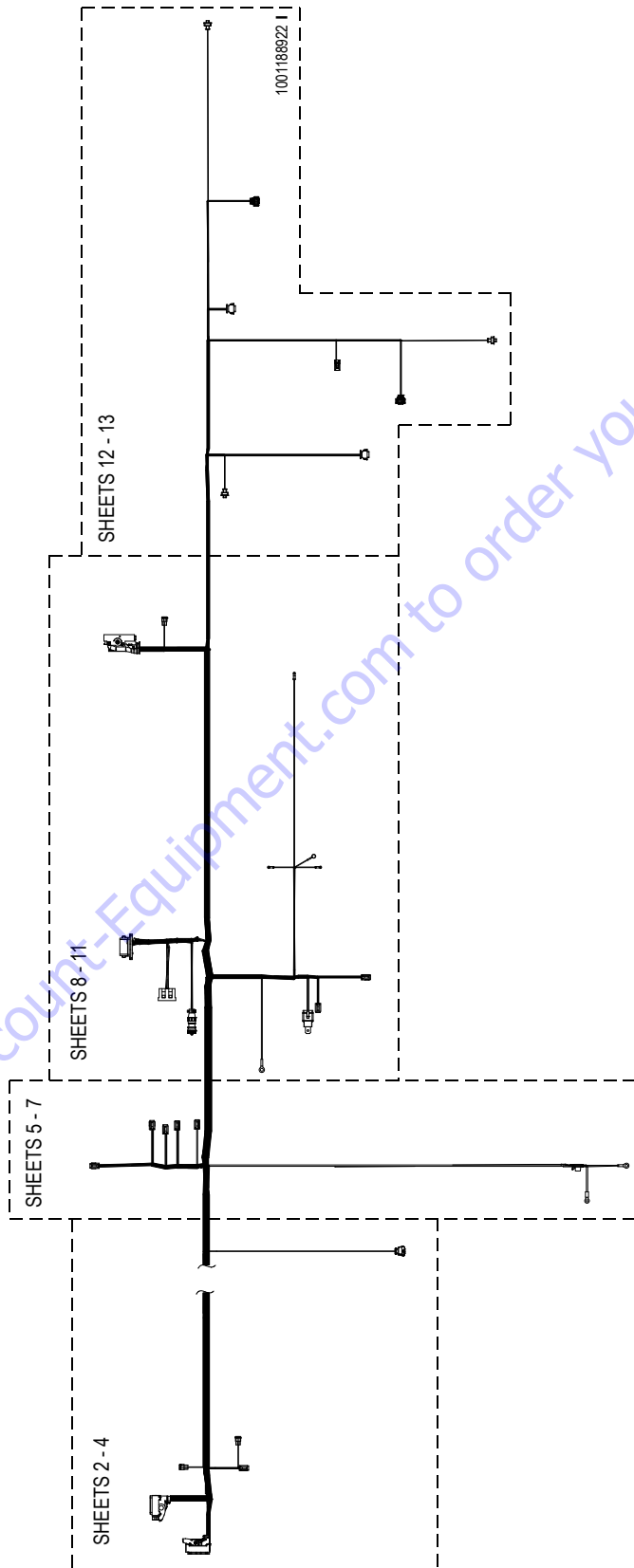


Figure 7-183. Engine T4F Harness - Sheet 2 of 15





Figure 7-184. Engine T4F Harness - Sheet 3 of 15

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

X212 (DEUTZ D2.2)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-20-1	2.5mm <sup>2</sup>	FLRYW	S280 (2)
2	BLK	0-60-10-1	2.5mm <sup>2</sup>	FLRYW	S278 (2)
3	RED	1-20-2	2.5mm <sup>2</sup>	FLRYW	S280 (2)
4	BLK	0-60-10-2	2.5mm <sup>2</sup>	FLRYW	S278 (2)
5	RED	1-20-3	2.5mm <sup>2</sup>	FLRYW	S280 (2)
6	BLK	0-60-10-3	2.5mm <sup>2</sup>	FLRYW	S278 (2)
10	WHT	73-2 A TEMP SNSR	0.75mm <sup>2</sup>	FLRYW	SN239 (1)
13	WHT	77-3 DPF PRS SIG	0.75mm <sup>2</sup>	FLRYW	SN283 (3)
18	WHT	77-1 DPF PRS SIG	0.75mm <sup>2</sup>	FLRYW	SN283 (1)
23	WHT	48-95 FUL RLY 86	0.75mm <sup>2</sup>	FLRYW	RL261 (5)
26	WHT	148-57 WTR/FUL RTN	0.75mm <sup>2</sup>	FLRYW	X942A (2)
31	WHT	77-2 DPF PRS RTN	0.75mm <sup>2</sup>	FLRYW	SN283 (2)
43	WHT	148-15 CLUTCH SW	0.75mm <sup>2</sup>	FLRYW	X212 (91)
50	WHT	73-1 A TEMP SNSR	0.75mm <sup>2</sup>	FLRYW	SN239 (2)
57	WHT	72-1 COOL LVL PWR	0.75mm <sup>2</sup>	FLRYW	SN240 (1)
62	WHT	72-2 COOL LVL SIG	0.75mm <sup>2</sup>	FLRYW	SN240 (3)
64	WHT	148-35-3 STRT REQ	0.75mm <sup>2</sup>	FLRYW	S285 (1)
67	YEL	2-99-2	1mm <sup>2</sup>	FLRYW	S272 (1)
70	WHT	148-64 WTR/FUL SW	0.75mm <sup>2</sup>	FLRYW	X942A (1)
74	WHT	48-94 FUL RLY 85	0.75mm <sup>2</sup>	FLRYW	RL261 (2)
81	WHT	72-3 COOL LVL GND	0.75mm <sup>2</sup>	FLRYW	SN240 (2)
82	GRN	CN L CH 2	0.75mm <sup>2</sup>	FLRYW	X241 (H)
83	YEL	CN H CH 2	0.75mm <sup>2</sup>	FLRYW	X241 (G)
85	YEL	CN H CH 2	0.75mm <sup>2</sup>	FLRYW	MS567 (1)
86	GRN	CN L CH 2	0.75mm <sup>2</sup>	FLRYW	MS567 (3)
91	WHT	148-15 CLUTCH SW	0.75mm <sup>2</sup>	FLRYW	X212 (43)

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

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

MS567					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CN H CH 2	0.75mm <sup>2</sup>	FLRYW	X212 (85)
2	YEL	CN H CH 2	0.75mm <sup>2</sup>	FLRYW	X568 (A)
3	GRN	CN L CH 2	0.75mm <sup>2</sup>	FLRYW	X212 (86)
4	GRN	CN L CH 2	0.75mm <sup>2</sup>	FLRYW	X568 (B)
5	GRN	CN L CH 2	0.75mm <sup>2</sup>	FLRYW	X241 (F)
6	GRN	CN L CH 2	0.75mm <sup>2</sup>	FLRYW	X218B (4)
7	YEL	CN H CH 2	0.75mm <sup>2</sup>	FLRYW	X241 (M)
8	YEL	CN H CH 2	0.75mm <sup>2</sup>	FLRYW	X218B (3)

X568					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CN H CH 2	0.75mm <sup>2</sup>	FLRYW	MS567 (2)
B	GRN	CN L CH 2	0.75mm <sup>2</sup>	FLRYW	MS567 (4)

V267 (UREA TANK HTR VLV)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	92-X267 UREA HEAT VLV	0.75mm <sup>2</sup>	FLRYW	X211 (92)
4	YEL	2-60-2	0.75mm <sup>2</sup>	FLRYW	S271 (1)

X233					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CN H (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	MS218 (5)
B	GRN	CN L (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	MS218 (3)

**Figure 7-185. Engine T4F Harness - Sheet 4 of 15**

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

X211 (DEUTZ D2.1)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
2	WHT	2-47 EXH GAS REC	1.5mm <sup>2</sup>	FLRYW	X213 (47)
3	WHT	3-S265 CNTRL PWR	1.5mm <sup>2</sup>	FLRYW	S265 (1)
4	WHT	259 RLY PWR	0.75mm <sup>2</sup>	FLRYW	MS259 (5)
5	WHT	5-X253 PURG VLV	0.75mm <sup>2</sup>	FLRYW	X437A (11)
7	WHT	7-52 INTAKE THRLE	0.75mm <sup>2</sup>	FLRYW	X213 (52)
8	WHT	8-7 EGR TEMP	0.75mm <sup>2</sup>	FLRYW	X213 (7)
9	WHT	9-SN216 EXH GAS TEMP	0.75mm <sup>2</sup>	FLRYW	SN216 (2)
11	WHT	11-29 BST PRS TEMP	0.75mm <sup>2</sup>	FLRYW	X213 (29)
13	WHT	13-24 COOL TEMP	0.75mm <sup>2</sup>	FLRYW	X213 (24)
15	WHT	15-SN215 EXH TEMP	0.75mm <sup>2</sup>	FLRYW	SN215 (2)
17	WHT	17-32 RAIL PRS FUL	0.75mm <sup>2</sup>	FLRYW	X213 (32)
18	WHT	18-50 5V	0.75mm <sup>2</sup>	FLRYW	X213 (50)
19	WHT	19-X253 UREA PRS	0.75mm <sup>2</sup>	FLRYW	X437A (5)
21	WHT	21-22 PRS RTN	0.75mm <sup>2</sup>	FLRYW	X213 (22)
23	WHT	23-61 INJCTR RTN	1.5mm <sup>2</sup>	FLRYW	X213 (61)
24	WHT	24-41 INJCTR RTN	1.5mm <sup>2</sup>	FLRYW	X213 (41)
25	WHT	25-20 MPROP	1.5mm <sup>2</sup>	FLRYW	X213 (20)
26	WHT	26-X254 DOSE VLV	0.75mm <sup>2</sup>	FLRYW	V254 (1)
27	WHT	27-SN216 EXH GAS TEMP	0.75mm <sup>2</sup>	FLRYW	SN216 (1)
35	WHT	35-27 TEMP/PRS RTN	0.75mm <sup>2</sup>	FLRYW	X213 (27)
36	WHT	36-31 RAIL PRS FUL	0.75mm <sup>2</sup>	FLRYW	X213 (31)
37	WHT	103-2 THRLE HTR	0.75mm <sup>2</sup>	FLRYW	FC248 (B6)
38	WHT	38-49 INTAKE THRLE	0.75mm <sup>2</sup>	FLRYW	X213 (49)
41	WHT	41-FC248 RLY GND	0.75mm <sup>2</sup>	FLRYW	FC248 (D9)
44	WHT	44-38 INJCTR	1.5mm <sup>2</sup>	FLRYW	X213 (38)
45	WHT	45-40 INJCTR	1.5mm <sup>2</sup>	FLRYW	X213 (40)
46	WHT	46-19 MPROP RTN	1.5mm <sup>2</sup>	FLRYW	X213 (19)
47	WHT	47-X254 DOSE VLV	0.75mm <sup>2</sup>	FLRYW	V254 (2)
48	WHT	48-SN215 EXH TEMP	0.75mm <sup>2</sup>	FLRYW	SN21

X211 (DEUTZ D2.1) CONT'D.					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
51	WHT	51-6 DELTA VNTRI	0.75mm <sup>2</sup>	FLRYW	X213 (6)
54	WHT	54-17 FUL LOW PRS	0.75mm <sup>2</sup>	FLRYW	X213 (17)
55	WHT	55-46 E GAS REC SIG	0.75mm <sup>2</sup>	FLRYW	X213 (46)
57	WHT	57-X253 UREA PRS	0.75mm <sup>2</sup>	FLRYW	X437A (6)
58	WHT	58-RL217 GLOW RLY SIG	0.75mm <sup>2</sup>	FLRYW	RL217-87 (1)
59	WHT	59-X253 UREA PUMP	0.75mm <sup>2</sup>	FLRYW	X437A (10)
61	WHT	104-1 PRS HTR	0.75mm <sup>2</sup>	FLRYW	FC248 (B8)
62	WHT	101-2 SUP MOD	0.75mm <sup>2</sup>	FLRYW	FC248 (B2)
63	WHT	63-RL217 GLOW RLY	0.75mm <sup>2</sup>	FLRYW	RL217-85 (1)
64	WHT	64-35 INJCTR RTN	1.5mm <sup>2</sup>	FLRYW	X213 (35)
66	WHT	66-37 INJCTR RTN	1.5mm <sup>2</sup>	FLRYW	X213 (37)
67	WHT	67-48 EXH GAS REC	1.5mm <sup>2</sup>	FLRYW	X213 (48)
70	WHT	70-X253 UREA PRS	0.75mm <sup>2</sup>	FLRYW	X437A (7)
72	WHT	72-26 OIL PRS	0.75mm <sup>2</sup>	FLRYW	X213 (26)
73	WHT	73-23 BST PRS TEMP	0.75mm <sup>2</sup>	FLRYW	X213 (23)
74	WHT	74-28 BST PRS TEMP	0.75mm <sup>2</sup>	FLRYW	X213 (28)
75	WHT	75-S214 SHLD RTN	0.75mm <sup>2</sup>	FLRYW	S214 (1)
76	WHT	76-51 GND RTN	0.75mm <sup>2</sup>	FLRYW	X213 (51)
77	YEL	CN H (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	MS218 (6)
78	WHT	78-25 RAIL PRS FUL	0.75mm <sup>2</sup>	FLRYW	X213 (25)
80	WHT	102-1 STION HTR	0.75mm <sup>2</sup>	FLRYW	FC248 (B4)
82	WHT	82-X253 PURG VLV	0.75mm <sup>2</sup>	FLRYW	X437A (12)
85	WHT	85-62 INJCTR	1.5mm <sup>2</sup>	FLRYW	X213 (62)
87	WHT	87-42 INJCTR	1.5mm <sup>2</sup>	FLRYW	X213 (42)
88	WHT	88-RL217 GLOW RLY RTN	0.75mm <sup>2</sup>	FLRYW	RL217-86 (1)
89	WHT	89-X253 UREA PUMP	0.75mm <sup>2</sup>	FLRYW	X437A (9)
92	WHT	92-X267 UREA HEAT VLV	0.75mm <sup>2</sup>	FLRYW	V267 (1)
94	WHT	94-3 STRT RTN	0.75mm <sup>2</sup>	FLRYW	X213 (3)
95	WHT	95-2 STRT SIG	0.75mm <sup>2</sup>	FLRYW	X213 (2)
98	GRN	CN L (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	MS218 (10)
99	BLK	99-13 CAM ENG SPD	0.75mm <sup>2</sup>	FLRYW	X213 (13)
100	WHT	100-14 CAM ENG SPD	0.75mm <sup>2</sup>	FLRYW	X213 (14)
101	BLK	101-21 CRK ENG SPD	0.75mm <sup>2</sup>	FLRYW	X213 (21)
102	WHT	102-15 CRK ENG SPD	0.75mm <sup>2</sup>	FLRYW	X213 (15)

**Figure 7-186. Engine T4F Harness - Sheet 5 of 15**

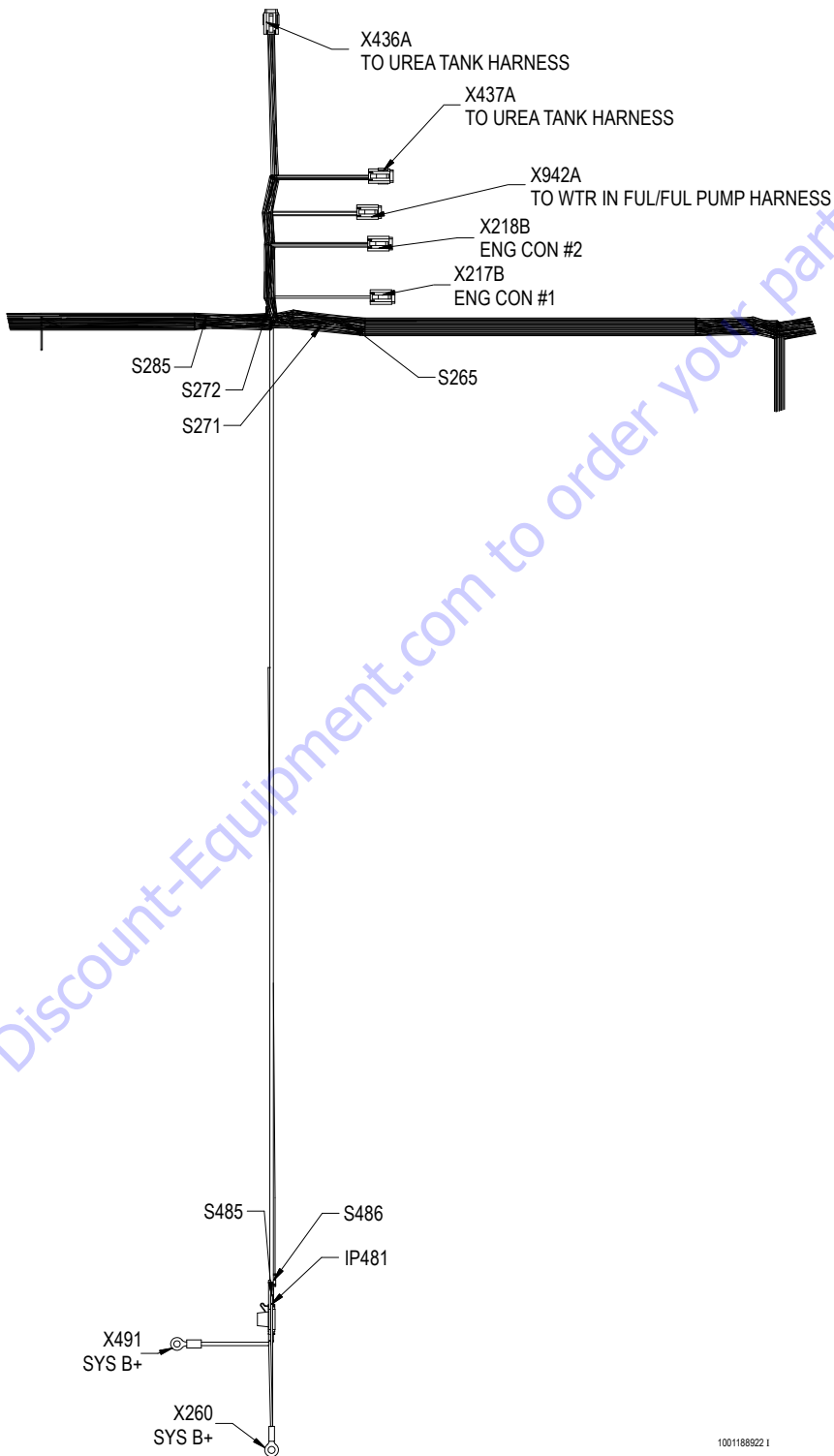


Figure 7-187. Engine T4F Harness - Sheet 6 of 15

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

X436A (TO UREA TANK HARNESS)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
3	WHT	104-2 PRS HTR	2.5mm <sup>2</sup>	FLRYW	FC248 (D8)
4	YEL	2-60-5	2.5mm <sup>2</sup>	FLRYW	S271 (2)
5	WHT	103-1 THRLE HTR	2.5mm <sup>2</sup>	FLRYW	FC248 (D6)
6	YEL	2-60-4	2.5mm <sup>2</sup>	FLRYW	S271 (2)
7	WHT	102-2 STION HTR	2.5mm <sup>2</sup>	FLRYW	FC248 (D4)
8	YEL	2-60-3	2.5mm <sup>2</sup>	FLRYW	S271 (1)
9	YEL	2-100-1	1mm <sup>2</sup>	FLRYW	FC248 (A3)
10	BLK	0-60-9-1	1mm <sup>2</sup>	FLRYW	S284 (1)
11	YEL	CN H (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	MS218 (9)
12	GRN	CN L (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	MS218 (12)

X218B (ENG CON #2)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-100	2mm <sup>2</sup>	FLRYW	S273 (2)
2	WHT	148-35-2 STRT REQ	0.75mm <sup>2</sup>	FLRYW	S285 (2)
3	YEL	CN H CH 2	0.75mm <sup>2</sup>	FLRYW	MS567 (8)
4	GRN	CN L CH 2	0.75mm <sup>2</sup>	FLRYW	MS567 (6)
5	WHT	47-6-1 ALT EXC	1mm <sup>2</sup>	FLRYW	EC246-D+ (1)

X217B (ENG CON #1)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-99-1	1mm <sup>2</sup>	FLRYW	S272 (2)
8	YEL	2-100-4	2mm <sup>2</sup>	FLRYW	S273 (2)

X437A (TO UREA TANK HARNESS)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	105-1 CNTRL PWR	1.5mm <sup>2</sup>	FLRYW	S265 (1)
3	WHT	101-1 HTRI	0.75mm <sup>2</sup>	FLRYW	FC248 (D2)
5	WHT	19-X253 UREA PRS	0.75mm <sup>2</sup>	FLRYW	X211 (19)
6	WHT	57-X253 UREA PRS	0.75mm <sup>2</sup>	FLRYW	X211 (57)
7	WHT	70-X253 UREA PRS	0.75mm <sup>2</sup>	FLRYW	X211 (70)
8	YEL	2-60-1	1.5mm <sup>2</sup>	FLRYW	S271 (1)
9	WHT	89-X253 UREA PUMP	0.75mm <sup>2</sup>	FLRYW	X211 (89)
10	WHT	59-X253 UREA PUMP	0.75mm <sup>2</sup>	FLRYW	X211 (59)
11	WHT	5-X253 UREA PURG VLV	0.75mm <sup>2</sup>	FLRYW	X211 (5)
12	WHT	82-X253 PURG VLV	0.75mm <sup>2</sup>	FLRYW	X211 (82)

S265					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	3-S265 CNTRL PWR	1.5mm <sup>2</sup>	FLRYW	X211 (3)
1	WHT	105-1 CNTRL PWR	1.5mm <sup>2</sup>	FLRYW	X437A (1)
2	WHT	105-2 CNTRL PWR	1.5mm <sup>2</sup>	FLRYW	FC248 (B10)

S271					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-60-1	1.5mm <sup>2</sup>	FLRYW	X437A (8)
1	YEL	2-60-2	0.75mm <sup>2</sup>	FLRYW	V267 (4)
1	YEL	2-60-3	2.5mm <sup>2</sup>	FLRYW	X436A (8)
2	YEL	2-60	3.0mm <sup>2</sup>	FLRYW	FC248 (D10)
2	YEL	2-60-4	2.5mm <sup>2</sup>	FLRYW	X436A (6)
2	YEL	2-60-5	2.5mm <sup>2</sup>	FLRYW	X436A (4)

X942A					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	148-64 WTR/FUL SW	0.75mm <sup>2</sup>	FLRYW	X212 (70)
2	WHT	148-57 WTR/FUL RTN	0.75mm <sup>2</sup>	FLRYW	X212 (26)
3	WHT	48-96 FUEL PUMP	3mm <sup>2</sup>	FLRYW	RL261 (4)
4	BLK	0-60-7-2	2.5mm <sup>2</sup>	FLRYW	S281 (2)

**Figure 7-188. Engine T4F Harness - Sheet 7 of 15**

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

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

S285					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	148-35-3 STRT REQ	0.75mm <sup>2</sup>	FLRYW	X212 (64)
2	WHT	148-35-2 STRT REQ	0.75mm <sup>2</sup>	FLRYW	X218B (2)
2	WHT	148-35-4 STRT REQ	0.75mm <sup>2</sup>	FLRYW	FC248 (AA10)

S485					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-30-1	3.0mm <sup>2</sup>	FLRYW	FC248 (A1)

S486					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-31-1	3.0mm <sup>2</sup>	FLRYW	FC248 (A2)

X260 (SYS B+)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	--	--	16 AWG	FUSIBLE LINK	S486 (2)
1	--	--	16 AWG	FUSIBLE LINK	S485 (2)

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

X491 (SYS B+)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-20	6mm <sup>2</sup>	FLRYW	IP481 (2)

**Figure 7-189. Engine T4F Harness - Sheet 8 of 15**

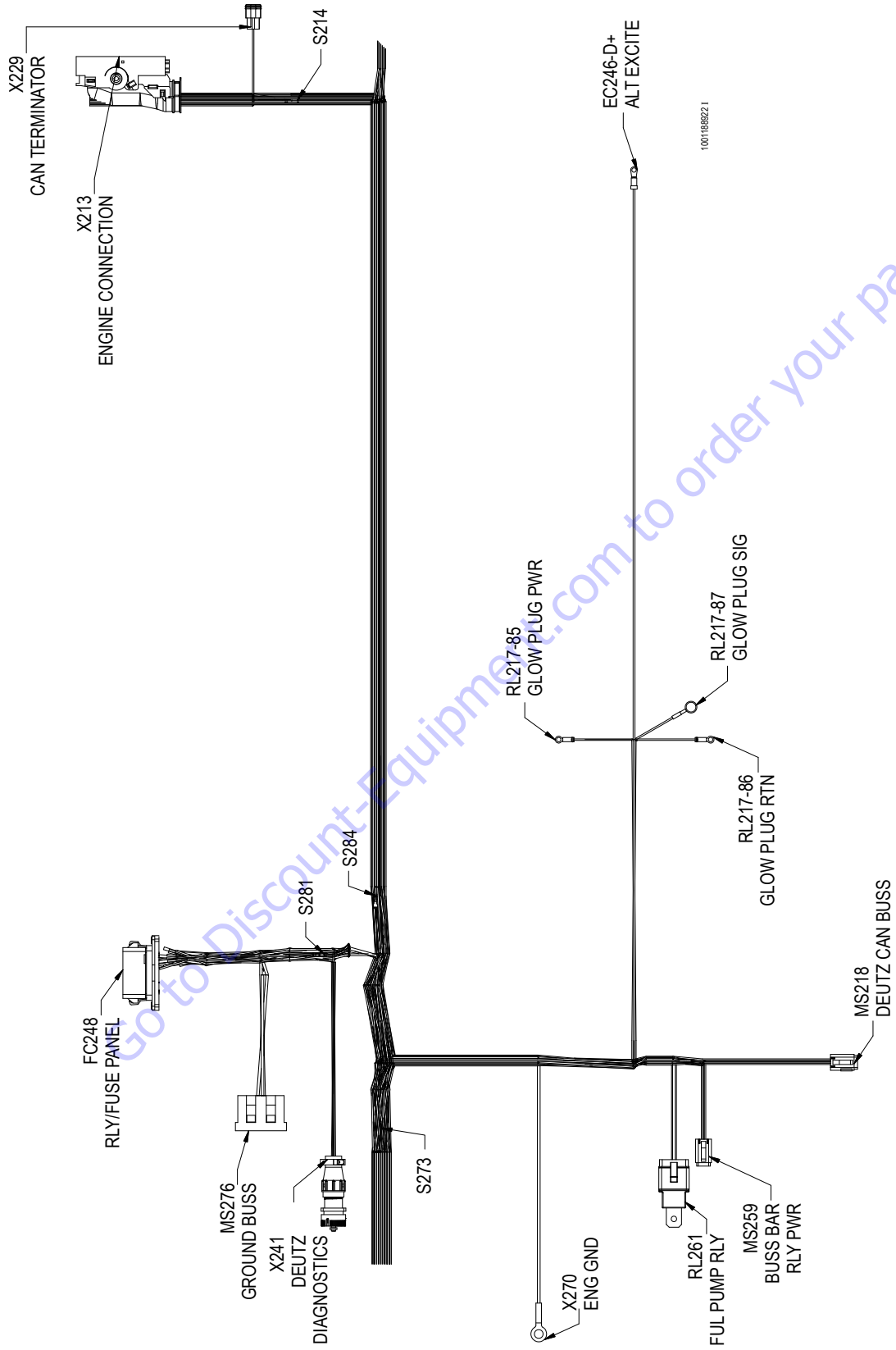


Figure 7-190. Engine T4F Harness - Sheet 9 of 15

**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 <sup>2</sup>	FLRYW	S272 (1)
B	BLK	0-60-7-3	0.75mm <sup>2</sup>	FLRYW	S281 (2)
F	GRN	CN L CH 2	0.75mm <sup>2</sup>	FLRYW	MS567 (5)
G	YEL	CN H CH 2	0.75mm <sup>2</sup>	FLRYW	X212 (83)
H	GRN	CN L CH 2	0.75mm <sup>2</sup>	FLRYW	X212 (82)
M	YEL	CN H CH 2	0.75mm <sup>2</sup>	FLRYW	MS567 (7)

MS276 (GROUND BUSS)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-60-1	3.0mm <sup>2</sup>	FLRYW	X270 (1)
2	BLK	0-60-2	3.0mm <sup>2</sup>	FLRYW	X270 (1)
3	BLK	0-60-3	2.5mm <sup>2</sup>	FLRYW	FC248 (B7)
4	BLK	0-60-4	2.5mm <sup>2</sup>	FLRYW	FC248 (B5)
5	BLK	0-60-5	2.5mm <sup>2</sup>	FLRYW	FC248 (B3)
6	BLK	0-60-6	2.5mm <sup>2</sup>	FLRYW	FC248 (B1)
7	BLK	0-60-7	3.0mm <sup>2</sup>	FLRYW	S281 (1)
8	BLK	0-60-8	2.5mm <sup>2</sup>	FLRYW	S269 (2)
9	BLK	0-60-9	2.5mm <sup>2</sup>	FLRYW	S284 (1)
10	BLK	0-60-10	6mm <sup>2</sup>	FLRYW	S278 (1)

S281					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-60-7	3.0mm <sup>2</sup>	FLRYW	MS276 (7)
1	BLK	0-60-7-1	0.75mm <sup>2</sup>	FLRYW	FC248 (A10)
2	BLK	0-60-7-2	2.5mm <sup>2</sup>	FLRYW	X942A (4)
2	BLK	0-60-7-3	0.75mm <sup>2</sup>	FLRYW	X241 (B)

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

FC248 (RLY/FUSE PANEL)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A1	RED	1-30	3.0mm <sup>2</sup>	FLRYW	FC248 (B)
A10	BLK	0-60-7-1	0.75mm <sup>2</sup>	FLRYW	S281 (1)
A2	RED	1-31-1	3.0mm <sup>2</sup>	FLRYW	S486 (1)
A3	YEL	2-100-1	1mm <sup>2</sup>	FLRYW	X436A (9)
A4	YEL	2-100-2	1mm <sup>2</sup>	FLRYW	S268 (2)
A5	YEL	2-100-3	1mm <sup>2</sup>	FLRYW	X213 (59)
AA1	RED	1-30-1	3.0mm <sup>2</sup>	FLRYW	S485 (1)
AA10	WHT	148-35-4 STRT REQ	0.75mm <sup>2</sup>	FLRYW	S285 (2)
AA2	RED	1-31	3.0mm <sup>2</sup>	FLRYW	RL261 (1)
AA3	YEL	2-100-1	1mm <sup>2</sup>	FLRYW	S273 (1)
AA4	YEL	2-100-2	1mm <sup>2</sup>	FLRYW	S273 (1)
AA5	YEL	2-100-3	1mm <sup>2</sup>	FLRYW	S273 (1)
B1	BLK	0-60-6	2.5mm <sup>2</sup>	FLRYW	MS276 (6)
B10	WHT	105-2 CNTRL PWR	1.5mm <sup>2</sup>	FLRYW	S265 (2)
B2	WHT	101-2 SUP MOD	0.75mm <sup>2</sup>	FLRYW	X211 (62)
B3	BLK	0-60-5	2.5mm <sup>2</sup>	FLRYW	MS276 (5)
B4	WHT	102-1 STION HTR	0.75mm <sup>2</sup>	FLRYW	X211 (80)
B5	BLK	0-60-4	2.5mm <sup>2</sup>	FLRYW	MS276 (4)
B6	WHT	103-2 THRLE HTR	0.75mm <sup>2</sup>	FLRYW	X211 (37)
B7	BLK	0-60-3	2.5mm <sup>2</sup>	FLRYW	MS276 (3)
B8	WHT	104-1 PRS HTR	0.75mm <sup>2</sup>	FLRYW	X211 (61)
B9	RED	1-30	3.0mm <sup>2</sup>	FLRYW	FC248 (A1)
D1	WHT	259-1 RLY PWR	0.75mm <sup>2</sup>	FLRYW	MS259 (4)
D10	YEL	2-60	3.0mm <sup>2</sup>	FLRYW	S271 (2)
D2	WHT	101-1 HTR1	0.75mm <sup>2</sup>	FLRYW	X437A (3)
D3	WHT	259-2 RLY PWR	0.75mm <sup>2</sup>	FLRYW	MS259 (3)
D4	WHT	102-2 STION HTR	2.5mm <sup>2</sup>	FLRYW	X436A (7)
D5	WHT	259-3 RLY PWR	0.75mm <sup>2</sup>	FLRYW	MS259 (2)
D6	WHT	103-1 THRLE HTR	2.5mm <sup>2</sup>	FLRYW	X436A (5)
D7	WHT	259-4 RLY PWR	0.75mm <sup>2</sup>	FLRYW	MS259 (1)
D8	WHT	104-2 PRS HTR	2.5mm <sup>2</sup>	FLRYW	X436A (3)
D9	WHT	41-FC248 RLY GND	0.75mm <sup>2</sup>	FLRYW	X211 (41)

**Figure 7-191. Engine T4F Harness - Sheet 10 of 15**



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

X213 (ENGINE CONNECTION)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	SHLD	S214-1	0.75mm <sup>2</sup>	SHLD	S214 (2)
2	WHT	95-2 STRT SIG	0.75mm <sup>2</sup>	FLRYW	X211 (95)
3	WHT	94-3 STRT RTN	0.75mm <sup>2</sup>	FLRYW	X211 (94)
4	GRN	CN L (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	MS218 (1)
5	YEL	CN H (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	MS218 (4)
6	WHT	51-6 DELTA VNTRI	0.75mm <sup>2</sup>	FLRYW	X211 (51)
7	WHT	8-7 EGR TEMP	0.75mm <sup>2</sup>	FLRYW	X211 (8)
9	SHLD	S214-9	0.75mm <sup>2</sup>	SHLD	S214 (2)
10	YEL	CN H (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	X229 (A)
11	GRN	CN L (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	X229 (B)
13	BLK	99-13 CAM ENG SPD	0.75mm <sup>2</sup>	FLRYW	X211 (99)
14	WHT	100-14 CAM ENG SPD	0.75mm <sup>2</sup>	FLRYW	X211 (100)
15	WHT	102-15 CRK ENG SPD	0.75mm <sup>2</sup>	FLRYW	X211 (102)
17	WHT	54-17 FUL LOW PRS	0.75mm <sup>2</sup>	FLRYW	X211 (54)
19	WHT	46-19 MPROP RTN	1.5mm <sup>2</sup>	FLRYW	X211 (46)
20	WHT	25-20 MPROP	1.5mm <sup>2</sup>	FLRYW	X211 (25)
21	BLK	101-21 CRK ENG SPD	0.75mm <sup>2</sup>	FLRYW	X211 (101)
22	WHT	21-22 PRS RTN	0.75mm <sup>2</sup>	FLRYW	X211 (21)
23	WHT	73-23 BST PRS TEMP	0.75mm <sup>2</sup>	FLRYW	X211 (73)
24	WHT	13-24 COOL TEMP	0.75mm <sup>2</sup>	FLRYW	X211 (13)
25	WHT	78-25 RAIL PRS FUL	0.75mm <sup>2</sup>	FLRYW	X211 (78)
26	WHT	72-26 OIL PRS	0.75mm <sup>2</sup>	FLRYW	X211 (72)

X213 (ENGINE CONNECTION) CONT'D.					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
27	WHT	35-27 TEMP/PRS RTN	0.75mm <sup>2</sup>	FLRYW	X211 (35)
28	WHT	74-28 BST PRS TEMP	0.75mm <sup>2</sup>	FLRYW	X211 (74)
29	WHT	11-29 BST PRS TEMP	0.75mm <sup>2</sup>	FLRYW	X211 (11)
31	WHT	36-31 RAIL PRS FUL	0.75mm <sup>2</sup>	FLRYW	X211 (36)
32	WHT	17-32 RAIL PRS FUL	0.75mm <sup>2</sup>	FLRYW	X211 (17)
35	WHT	34-35 INJCTR RTN	1.5mm <sup>2</sup>	FLRYW	X211 (64)
37	WHT	66-37 INJCTR RTN	1.5mm <sup>2</sup>	FLRYW	X211 (66)
38	WHT	44-38 INJCTR	1.5mm <sup>2</sup>	FLRYW	X211 (44)
40	WHT	45-40 INJCTR	1.5mm <sup>2</sup>	FLRYW	X211 (45)
41	WHT	24-41 INJCTR RTN	1.5mm <sup>2</sup>	FLRYW	X211 (24)
42	WHT	87-42 INJCTR	1.5mm <sup>2</sup>	FLRYW	X211 (87)
46	WHT	55-46 E GAS REC SIG	0.75mm <sup>2</sup>	FLRYW	X211 (55)
47	WHT	2-47 EXH GAS REC	1.5mm <sup>2</sup>	FLRYW	X211 (2)
48	WHT	67-48 EXH GAS REC	1.5mm <sup>2</sup>	FLRYW	X211 (67)
49	WHT	38-49 INTAKE THRITLE	0.75mm <sup>2</sup>	FLRYW	X211 (38)
50	WHT	18-50 5V	0.75mm <sup>2</sup>	FLRYW	X211 (18)
51	WHT	76-51 GND RTN	0.75mm <sup>2</sup>	FLRYW	X211 (76)
52	WHT	7-52 INTAKE THRITLE	0.75mm <sup>2</sup>	FLRYW	X211 (7)
59	YEL	2-100-3	1mm <sup>2</sup>	FLRYW	FC248 (A5)
60	BLK	0-60-2-2	1mm <sup>2</sup>	FLRYW	S284 (2)
61	WHT	23-61 INJCTR RTN	1.5mm <sup>2</sup>	FLRYW	X211 (23)
62	WHT	85-62 INJCTR	1.5mm <sup>2</sup>	FLRYW	X211 (85)

**Figure 7-192. Engine T4F Harness - Sheet 11 of 15**

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

X229 (CAN TERMINATOR)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CN H (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	X213 (10)
B	GRN	CN L (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	X213 (11)

S214					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	75-S214 SHLD RTN	0.75mm <sup>2</sup>	FLRYW	X211 (75)
2	SHLD	S214-1	0.75mm <sup>2</sup>	SHLD	X213 (1)
2	SHLD	S214-9	0.75mm <sup>2</sup>	SHLD	X213 (9)

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

X270 (ENG GND)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-60-1	3.0mm <sup>2</sup>	FLRYW	MS276 (1)
1	BLK	0-60-2	3.0mm <sup>2</sup>	FLRYW	MS276 (2)

RL261 (FUL PUMP RLY)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-31	3.0mm <sup>2</sup>	FLRYW	FC248 (AA2)
2	WHT	48-94 FUL RLY85	0.75mm <sup>2</sup>	FLRYW	X212 (74)
4	WHT	48-96 FUEL PUMP	3mm <sup>2</sup>	FLRYW	X942A (3)
5	WHT	48-95 FUL RLY 86	0.75mm <sup>2</sup>	FLRYW	X212 (23)

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

MS218 (DEUTZ CAN BUSS)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	GRN	CN L (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	X213 (4)
2	GRN	CN L (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	SN236 (2)
3	GRN	CN L (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	X233 (B)
4	YEL	CN H (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	X213 (5)
5	YEL	CN H (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	X233 (A)
6	YEL	CN H (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	X211 (77)
7	YEL	CN H (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	SN236 (1)
8	YEL	CN H (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	SN237 (1)
9	YEL	CN H (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	X436A (11)
10	GRN	CN L (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	X211 (98)
11	GRN	CN L (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	SN237 (2)
12	GRN	CN L (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	X436 (12)

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

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

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

EC246-D+ (ALT EXCITE)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	47-6-1 ALT EXC	1mm <sup>2</sup>	FLRYW	X218B (5)

**Figure 7-193. Engine T4F Harness - Sheet 12 of 15**

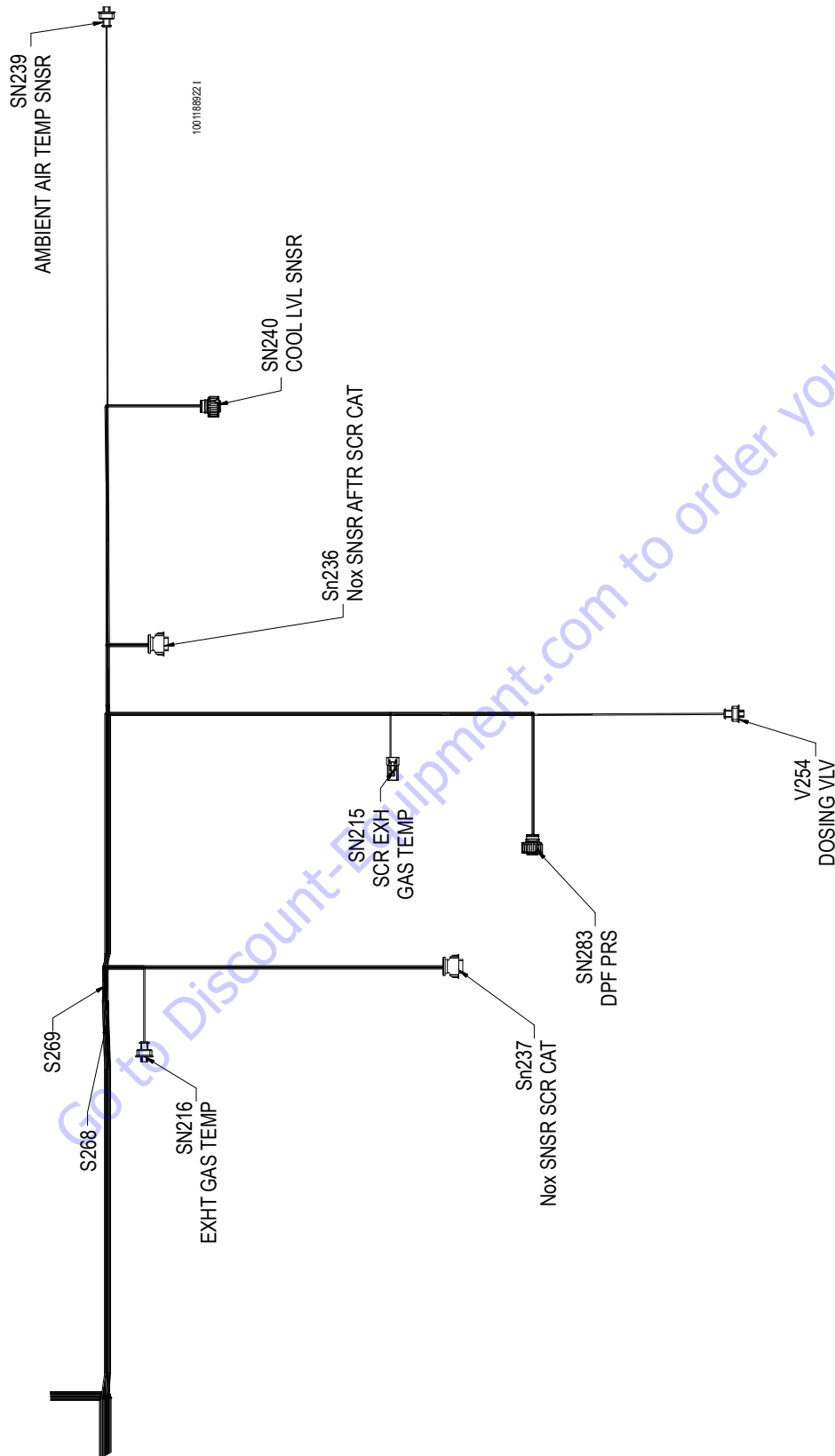


Figure 7-194. Engine T4F Harness - Sheet 13 of 15

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

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

SN237 (NOX SNSR SCR CAT)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CN H (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	MS218 (8)
2	GRN	CN L (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	MS218 (11)
3	BLK	0-60-6-1	1mm <sup>2</sup>	FLRYW	S269 (1)
4	YEL	2-100-2-1	1mm <sup>2</sup>	FLRYW	S268 (1)

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

SN283 (DPF PRS)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	77-1 DPF PRS SIG	0.75mm <sup>2</sup>	FLRYW	X212 (18)
2	WHT	77-2 DPF PRS RTN	0.75mm <sup>2</sup>	FLRYW	X212 (31)
3	WHT	77-3 DPF PRS RTN	0.75mm <sup>2</sup>	FLRYW	X212 (13)

V254 (DOSING VLV)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	26-X254 DOSE VLV	0.75mm <sup>2</sup>	FLRYW	X211 (26)
2	WHT	47-X254 DOSE VLV	0.75mm <sup>2</sup>	FLRYW	X211 (47)

SN236 (NOX SNSR AFTR SCR CAT)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CN H (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	MS218 (7)
2	GRN	CN L (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	MS218 (2)
3	BLK	0-60-6-2	1mm <sup>2</sup>	FLRYW	S269 (1)
4	YEL	2-100-2-2	1mm <sup>2</sup>	FLRYW	S268 (1)

SN240 (COOL LVL SNSR)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	72-1 COOL LVL PWR	0.75mm <sup>2</sup>	FLRYW	X212 (57)
2	WHT	72-3 COOL LVL GND	0.75mm <sup>2</sup>	FLRYW	X212 (81)
3	WHT	72-2 COOL LVL SIG	0.75mm <sup>2</sup>	FLRYW	X212 (62)

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

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

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

**Figure 7-195. Engine T4F Harness - Sheet 14 of 15**

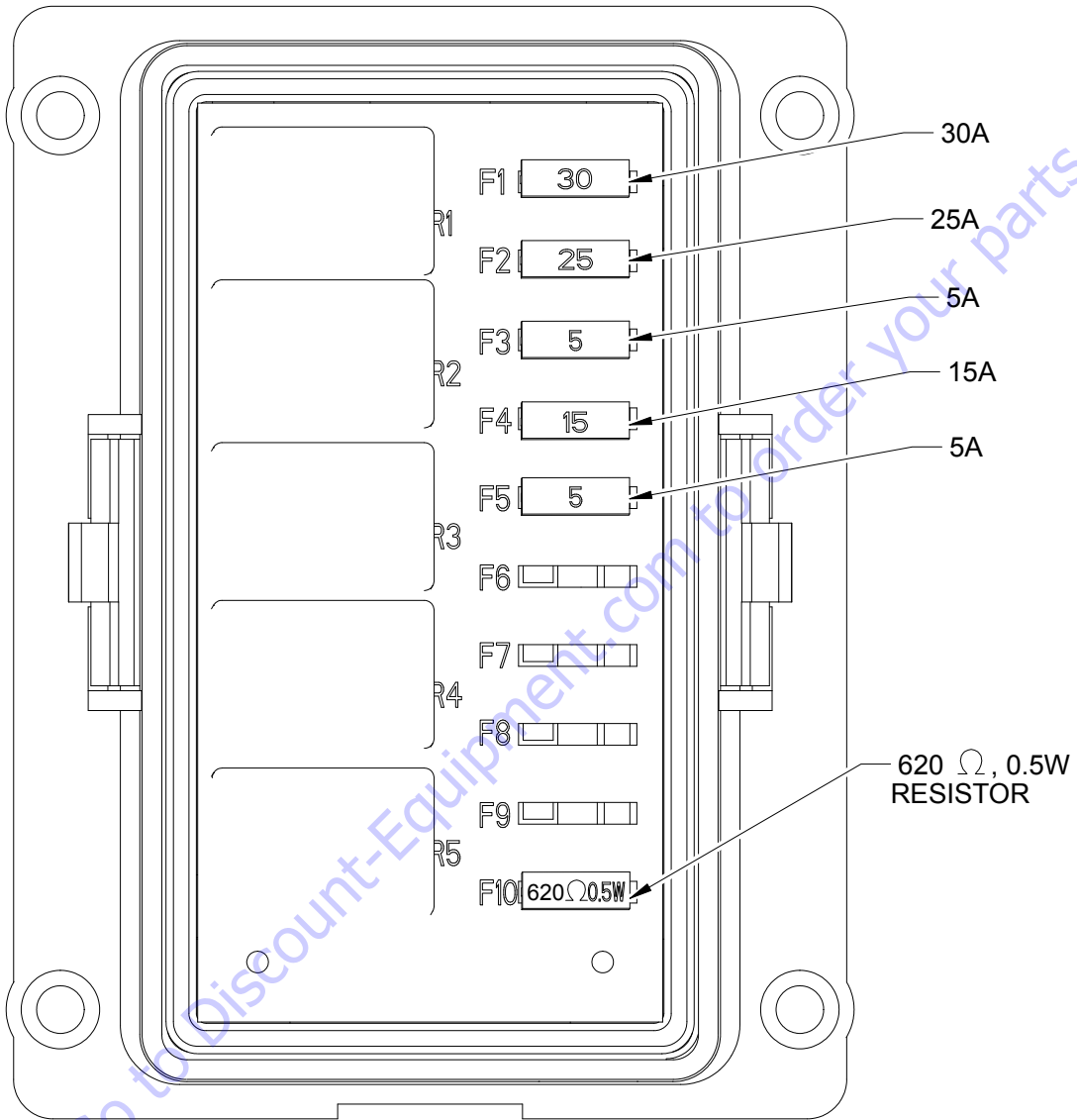


Figure 7-196. Engine T4F Harness - Sheet 15 of 15

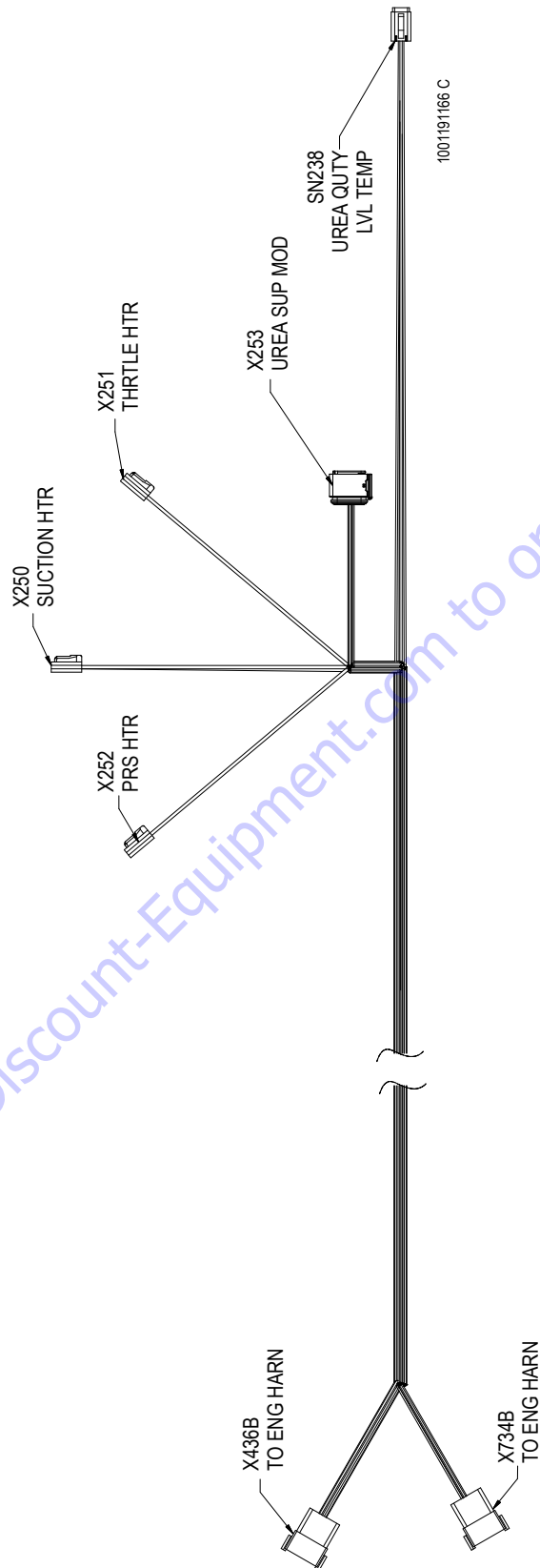


Figure 7-197. Urea Tank Harness - Sheet 1 of 2

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

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

X250 (SUCTION HTR)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-60-3	2.5mm <sup>2</sup>	FLRYW	X436B (8)
2	WHT	102-2 STION HTR	2.5mm <sup>2</sup>	FLRYW	X436B (7)

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

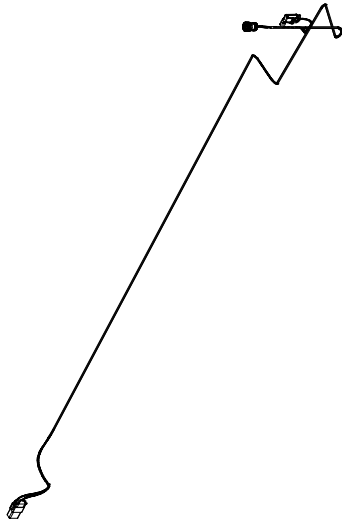
X253 (UREA SUP MOD)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
2	WHT	19-X253 UREA PRS	0.75mm <sup>2</sup>	FLRYW	X734B (5)
3	WHT	57-X253 UREA PRS	0.75mm <sup>2</sup>	FLRYW	X734B (6)
4	WHT	70-X253 UREA PRS	0.75mm <sup>2</sup>	FLRYW	X734B (7)
5	YEL	2-60-1	1.5mm <sup>2</sup>	FLRYW	X734B (8)
6	WHT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

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

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

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

**Figure 7-198. Urea Tank Harness - Sheet 2 of 2**



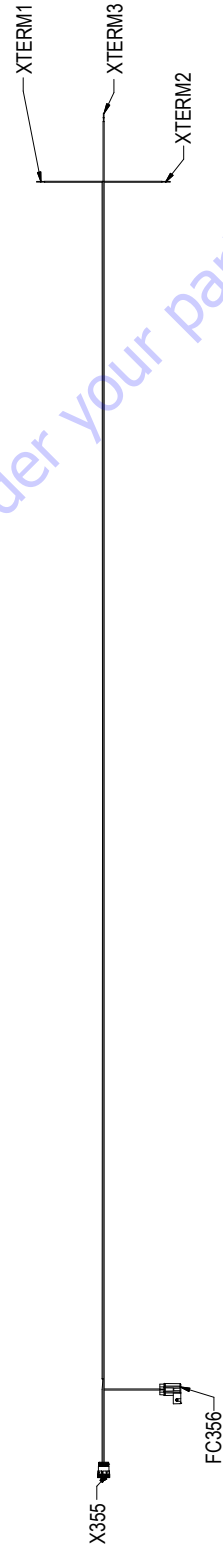
XTERM2				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	TO
1	WHT	52-9 GEN	18 AWG	GXL

XTERM3				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	TO
1	BLK	0-18	18 AWG	X355 (3)

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

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)



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Figure 7-199. Generator Enable Harness

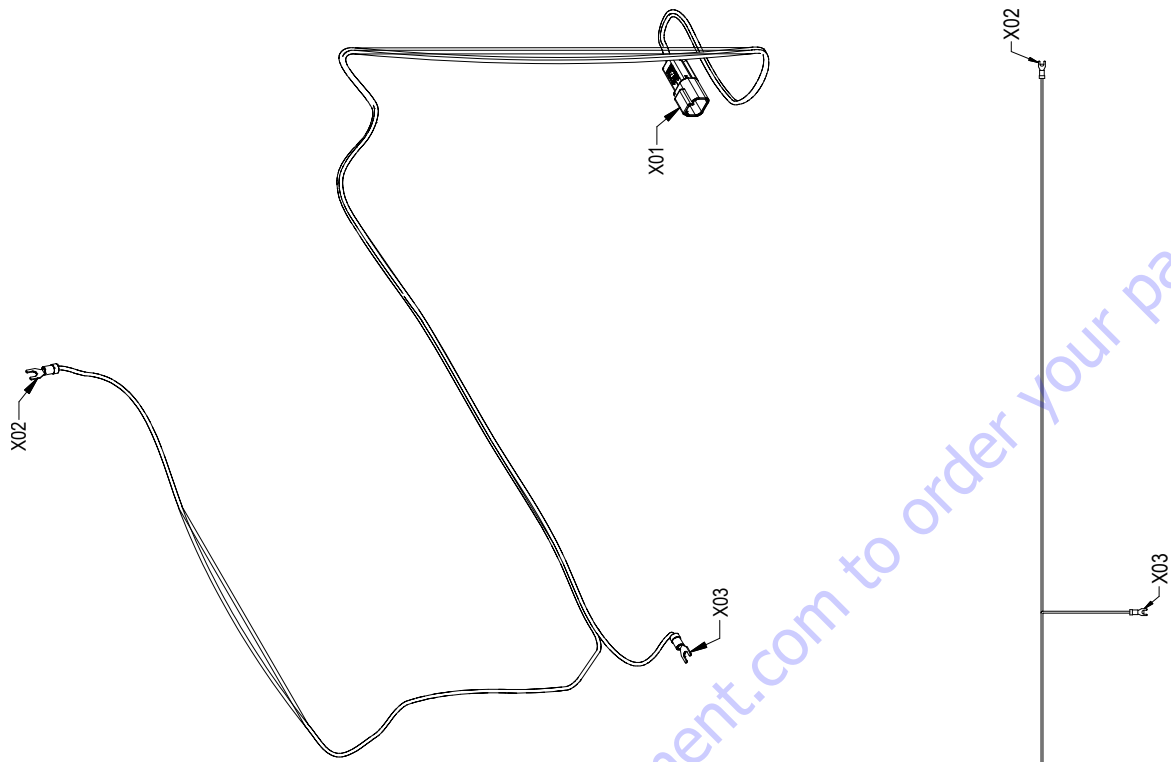


SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS



Figure 7-200. Platform Floodlights Harness

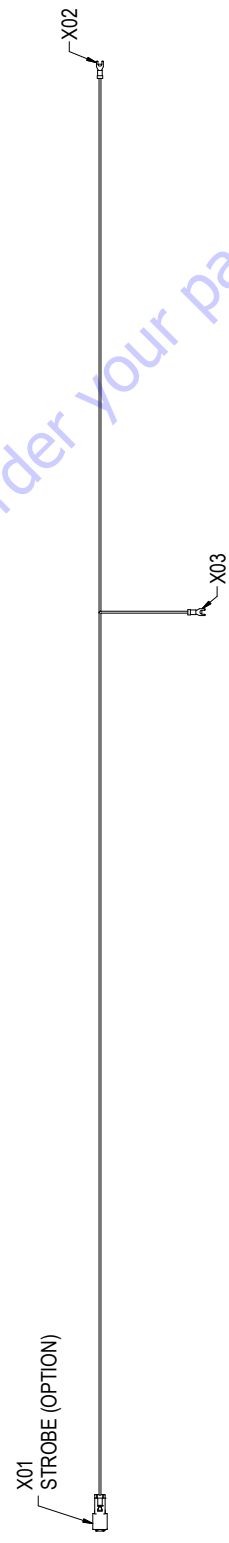
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X01 STROBE (OPTION)				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET TO
1	BLU/ORN	P1 PWR	18 AWG	TFFN X02 (1)
2	BLK	P2 GND	18 AWG	TFFN X03 (1)

X02				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET TO
1	BLU/ORN	P1 PWR	18 AWG	TFFN X01 (1)

X03				
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET TO
1	BLK	P2 GND	18 AWG	TFFN X01 (2)



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Figure 7-201. Platform Beacon Harness

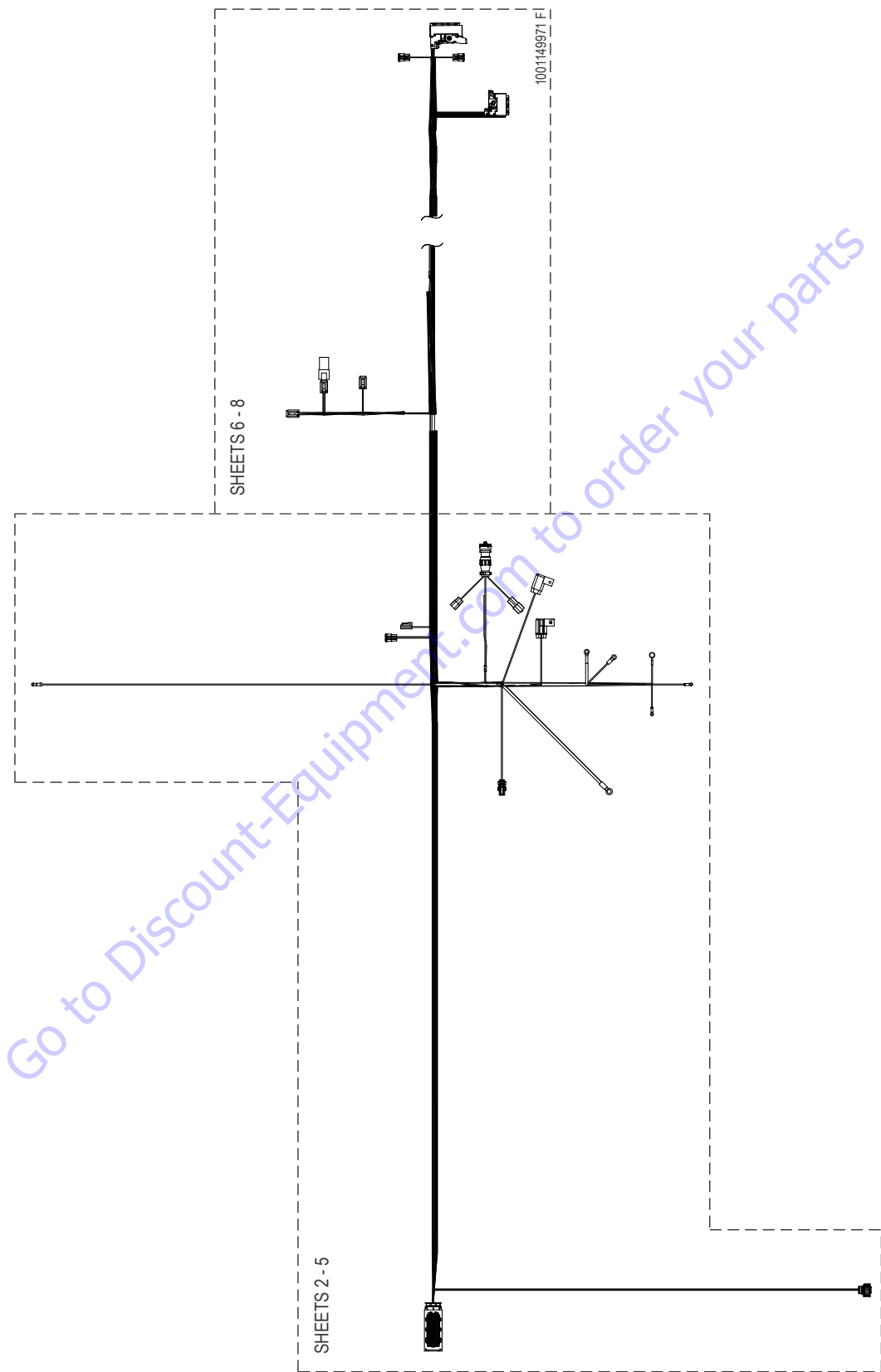


Figure 7-202. Engine T4I Harness - Sheet 1 of 9

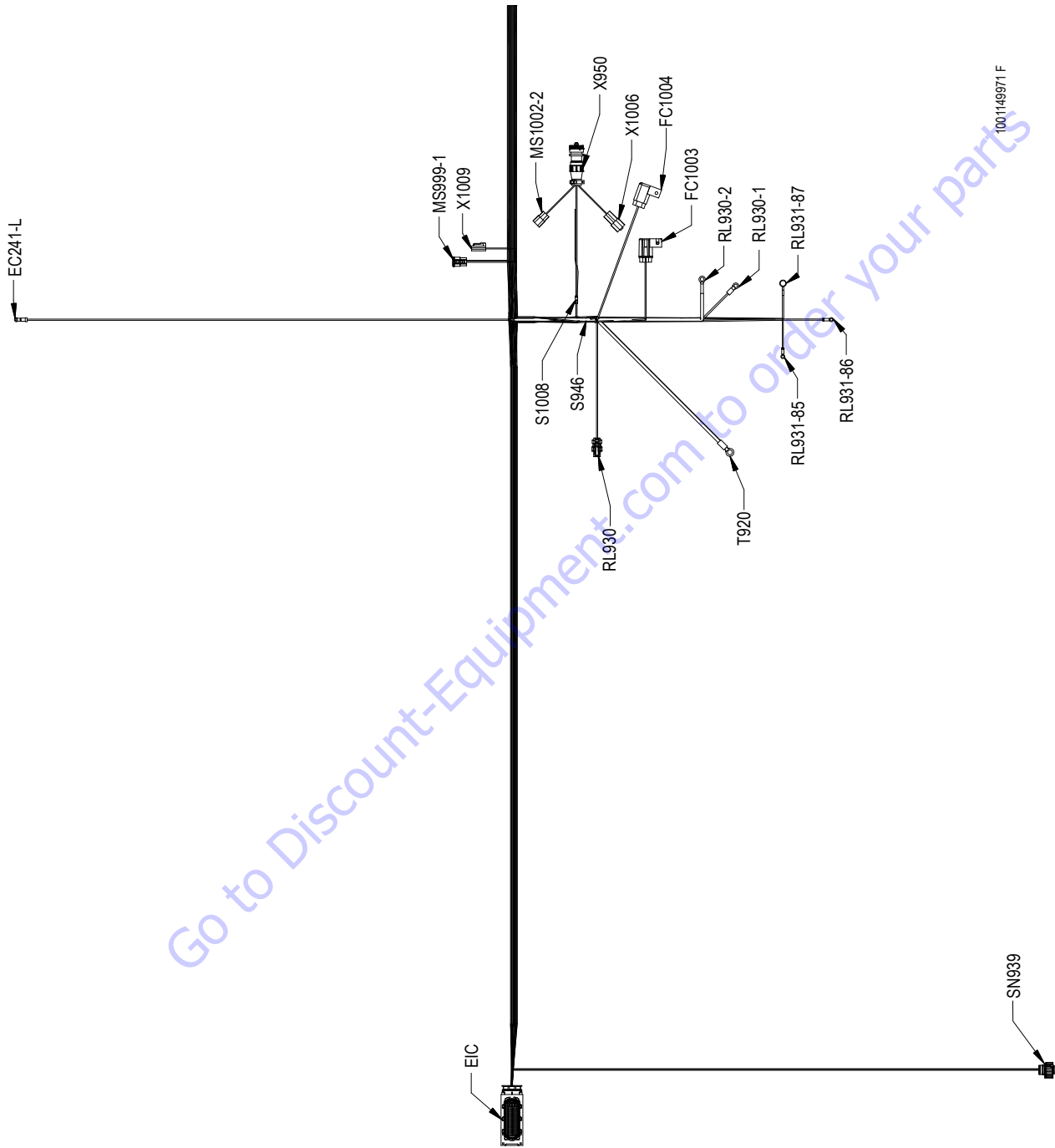


Figure 7-203. Engine T4I Harness - Sheet 2 of 9

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

X212 (DEUTZ D2.2)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-20-1	2.5mm <sup>2</sup>	FLRYW	S280 (2)
2	BLK	0-60-10-1	2.5mm <sup>2</sup>	FLRYW	S278 (2)
3	RED	1-20-2	2.5mm <sup>2</sup>	FLRYW	S280 (2)
4	BLK	0-60-10-2	2.5mm <sup>2</sup>	FLRYW	S278 (2)
5	RED	1-20-3	2.5mm <sup>2</sup>	FLRYW	S280 (2)
6	BLK	0-60-10-3	2.5mm <sup>2</sup>	FLRYW	S278 (2)
10	WHT	73-2 A TEMP SNSR	0.75mm <sup>2</sup>	FLRYW	SN239 (1)
13	WHT	77-3 DPF PRS SIG	0.75mm <sup>2</sup>	FLRYW	SN283 (3)
18	WHT	77-1 DPF PRS SIG	0.75mm <sup>2</sup>	FLRYW	SN283 (1)
23	WHT	48-95 FUL RLY 86	0.75mm <sup>2</sup>	FLRYW	RL261 (5)
26	WHT	148-57 WTR/FUL RTN	0.75mm <sup>2</sup>	FLRYW	X942A (2)
31	WHT	77-2 DPF PRS RTN	0.75mm <sup>2</sup>	FLRYW	SN283 (2)
43	WHT	148-15 CLUTCH SW	0.75mm <sup>2</sup>	FLRYW	X212 (91)
50	WHT	73-1 A TEMP SNSR	0.75mm <sup>2</sup>	FLRYW	SN239 (2)
57	WHT	72-1 COOL LVL PWR	0.75mm <sup>2</sup>	FLRYW	SN240 (1)
62	WHT	72-2 COOL LVL SIG	0.75mm <sup>2</sup>	FLRYW	SN240 (3)
64	WHT	148-35-3 STRT REQ	0.75mm <sup>2</sup>	FLRYW	S285 (1)
67	YEL	2-99-2	1mm <sup>2</sup>	FLRYW	S272 (1)
70	WHT	148-64 WTR/FUL SW	0.75mm <sup>2</sup>	FLRYW	X942A (1)
74	WHT	48-94 FUL RLY 85	0.75mm <sup>2</sup>	FLRYW	RL261 (2)
81	WHT	72-3 COOL LVL GND	0.75mm <sup>2</sup>	FLRYW	SN240 (2)
82	GRN	CN L CH 2	0.75mm <sup>2</sup>	FLRYW	X241 (H)
83	YEL	CN H CH 2	0.75mm <sup>2</sup>	FLRYW	X241 (G)
85	YEL	CN H CH 2	0.75mm <sup>2</sup>	FLRYW	MS567 (1)
86	GRN	CN L CH 2	0.75mm <sup>2</sup>	FLRYW	MS567 (3)
91	WHT	148-15 CLUTCH SW	0.75mm <sup>2</sup>	FLRYW	X212 (43)

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

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

MS567					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CN H CH 2	0.75mm <sup>2</sup>	FLRYW	X212 (85)
2	YEL	CN H CH 2	0.75mm <sup>2</sup>	FLRYW	X568 (A)
3	GRN	CN L CH 2	0.75mm <sup>2</sup>	FLRYW	X212 (86)
4	GRN	CN L CH 2	0.75mm <sup>2</sup>	FLRYW	X568 (B)
5	GRN	CN L CH 2	0.75mm <sup>2</sup>	FLRYW	X241 (F)
6	GRN	CN L CH 2	0.75mm <sup>2</sup>	FLRYW	X218B (4)
7	YEL	CN H CH 2	0.75mm <sup>2</sup>	FLRYW	X241 (M)
8	YEL	CN H CH 2	0.75mm <sup>2</sup>	FLRYW	X218B (3)

X568					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CN H CH 2	0.75mm <sup>2</sup>	FLRYW	MS567 (2)
B	GRN	CN L CH 2	0.75mm <sup>2</sup>	FLRYW	MS567 (4)

V267 (UREA TANK HTR VLV)					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	92-X267 UREA HEAT VLV	0.75mm <sup>2</sup>	FLRYW	X211 (92)
4	YEL	2-60-2	0.75mm <sup>2</sup>	FLRYW	S271 (1)

X233					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CN H (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	MS218 (5)
B	GRN	CN L (DEUTZ)	0.75mm <sup>2</sup>	FLRYW	MS218 (3)

**Figure 7-204. Engine T4I Harness - Sheet 3 of 9**

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

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

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

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)

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

S1008					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	000-48-3 ENG GND	18 AWG	GXL	T920 (1)
2	BLK	000-48-3 ENG GND	18 AWG	GXL	X950 (B)
2	BLK	000-48-4 SHLD	18 AWG	GXL	X1006 (3)

S946					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-48-3 IGNITION	18 AWG	GXL	RL931-86 (1)
1	YEL	2-48-4 IGNITION	18 AWG	GXL	RL930 (1)
2	YEL	2-48-1 IGNITION	16 AWG	GXL	FC1004 (2)
2	YEL	2-48-2 IGNITION	18 AWG	GXL	X950 (A)
2	BLK	148-88 IGNITION	0.75mm <sup>2</sup>	FLRYW	ECM-J1 (88)

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

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

X950					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	2-48-2 IGNITION	18 AWG	GXL	S946 (2)
B	BLK	000-48-2 ENG GND	18 AWG	GXL	S1008 (2)
F	GRN	CAN LOW	0.75mm <sup>2</sup>	FLRYW	X1006 (2)
G	GRN	CAN LOW	0.75mm <sup>2</sup>	FLRYW	MS1002-2 (B)
H	YEL	CAN HIGH	0.75mm <sup>2</sup>	FLRYW	MS1002-2 (A)
M	YEL	CAN HIGH	0.75mm <sup>2</sup>	FLRYW	X1006 (1)

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

FC1004					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-1-99 IGNITION	18 AWG	GXL	X217B (1)
2	YEL	2-48-1 IGNITION	16 AWG	GXL	S946 (2)

**Figure 7-205. Engine T4I Harness - Sheet 4 of 9**

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

FC1003					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	248-23 GLOW SENSE	0.75mm <sup>2</sup>	FLRYW	ECM-J2 (23)
2	ORG	248-23-1 GLOW SENSE	18 AWG	GXL	RL931-87 (1)

T920					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	000-148-2	0.75mm <sup>2</sup>	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)

RL930-2					
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 RLY CNTRL GND	0.75mm <sup>2</sup>	FLRYW	ECM-J2 (35)

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)

**Figure 7-206. Engine T4I Harness - Sheet 5 of 9**

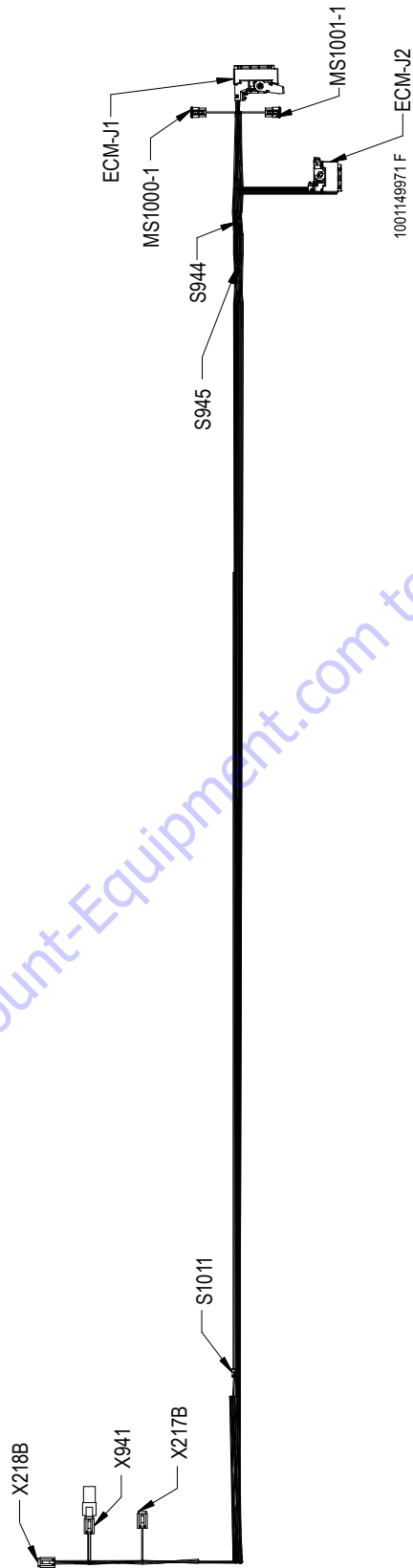


Figure 7-207. Engine T4I Harness - Sheet 6 of 9

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

X218B					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
2	BLK	148-35-2 STRT REQ	0.75mm <sup>2</sup>	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	0.75mm <sup>2</sup>	FLRYW	ECM-J1 (64)
2	BLK	148-57 WATER IN FUEL SW RTN	0.75mm <sup>2</sup>	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)

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

S1011					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	148-35-3 STRT REQ	0.75mm <sup>2</sup>	FLRYW	ECM-J1 (35)
2	BLK	148-35-2 STRT REQ	0.75mm <sup>2</sup>	FLRYW	X218B (2)
2	BLK	148-35-4 STRT REQ	0.75mm <sup>2</sup>	FLRYW	X1009 (2)

S945					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	00-148-246 ECM GND	8 AWG	GXL	T920 (1)
2	BLK	148-2 ECM GND	2.5mm <sup>2</sup>	FLRYW	ECM-J1 (2)
2	BLK	148-4 ECM GND	2.5mm <sup>2</sup>	FLRYW	ECM-J1 (4)
2	BLK	148-6 ECM GND	2.5mm <sup>2</sup>	FLRYW	ECM-J1 (6)

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	2.5mm <sup>2</sup>	FLRYW	ECM-J1 (1)
2	RED	148-3 ECM PWR	2.5mm <sup>2</sup>	FLRYW	ECM-J1 (3)
2	RED	148-5 ECM PWR	2.5mm <sup>2</sup>	FLRYW	ECM-J1 (5)

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

MS1001-1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CAN HIGH	0.75mm <sup>2</sup>	FLRYW	ECM-J1 (75)
B	GRN	CAN LOW	0.75mm <sup>2</sup>	FLRYW	ECM-J1 (53)

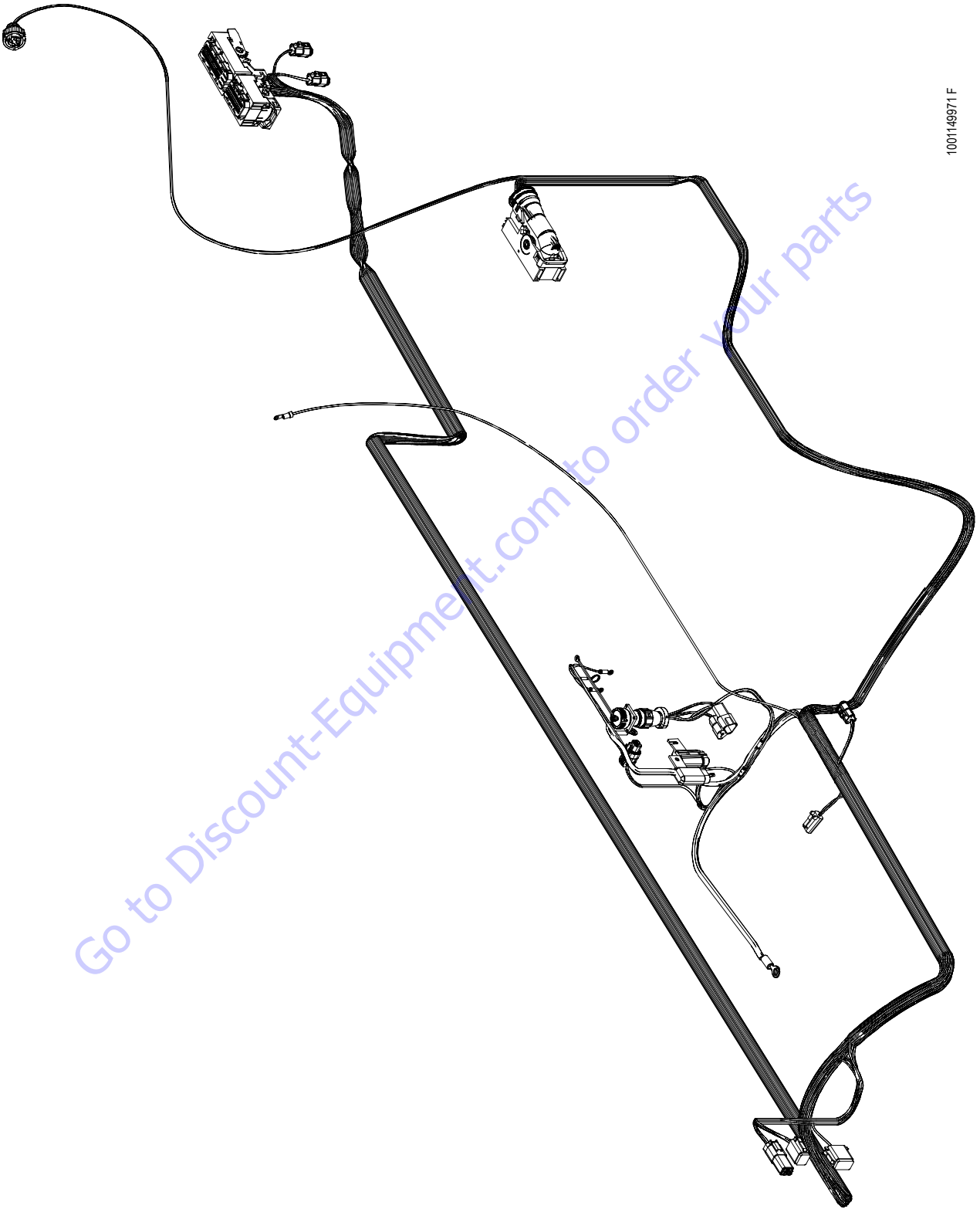
**Figure 7-208. Engine T4I Harness - Sheet 7 of 9**

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

ECM-J2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
2	BLK	248-2 INJECTOR 3	1.5mm <sup>2</sup>	FLRYW	EIC (61)
3	BLK	248-3 INJECTOR 2	1.5mm <sup>2</sup>	FLRYW	EIC (41)
4	BLK	248-4 MPROP ACTUATOR	1.5mm <sup>2</sup>	FLRYW	EIC (19)
5	BLK	248-5 MPROP ACTUATOR	1.5mm <sup>2</sup>	FLRYW	EIC (20)
7	BLK	248-7 RAIL PRESSURE FUEL	0.75mm <sup>2</sup>	FLRYW	EIC (32)
16	BLK	248-16 INJECTOR 1	1.5mm <sup>2</sup>	FLRYW	EIC (35)
18	BLK	248-18 INJECTOR 4	1.5mm <sup>2</sup>	FLRYW	EIC (37)
19	BLK	248-19 EXH GAS RECIRCULATION	1.5mm <sup>2</sup>	FLRYW	EIC (47)
20	BLK	248-20 EXH GAS RECIRCULATION	1.5mm <sup>2</sup>	FLRYW	EIC (48)
23	BLK	248-23 GLOW SENSE	0.75mm <sup>2</sup>	FLRYW	FC1003 (1)
24	BLK	248-24 BOOST PRS/TEMP	0.75mm <sup>2</sup>	FLRYW	EIC (22)
25	BLK	248-25 RAIL PRS FUEL	0.75mm <sup>2</sup>	FLRYW	EIC (31)
26	BLK	248-26 RAIL PRS FUEL	0.75mm <sup>2</sup>	FLRYW	EIC (25)
27	BLK	248-27 BOOST PRS/TEMP	0.75mm <sup>2</sup>	FLRYW	EIC (29)
28	BLK	248-28 COOLING TEMP	0.75mm <sup>2</sup>	FLRYW	EIC (24)
29	BLK	248-29 OIL PRESSURE	0.75mm <sup>2</sup>	FLRYW	EIC (27)
32	BLK	248-32 INJECTOR 3	1.5mm <sup>2</sup>	FLRYW	EIC (38)
33	BLK	248-33 INJECTOR 1	1.5mm <sup>2</sup>	FLRYW	EIC (62)
35	BLK	248-35 GLOW RLY CNTRL GND	0.75mm <sup>2</sup>	FLRYW	RL931-85 (1)
37	BLK	248-37 ENG SPD CAMSHAFT	0.75mm <sup>2</sup>	FLRYW	EIC (14)
38	SHLD	248-38 ENG SPD CRANKSHAFT	0.75mm <sup>2</sup>	SHLD	EIC (1)
39	BLK	248-39 ENG SPD CRANKSHAFT	0.75mm <sup>2</sup>	FLRYW	EIC (15)
40	BLK	248-40 AIR INLET TEMP	0.75mm <sup>2</sup>	FLRYW	EIC (28)
43	BLK	248-43 OIL PRESSURE	0.75mm <sup>2</sup>	FLRYW	EIC (23)
44	BLK	248-46 INJECTOR 2	0.75mm <sup>2</sup>	FLRYW	EIC (26)
46	BLK	248-46 INJECTOR 2	1.5mm <sup>2</sup>	FLRYW	EIC (40)
48	BLK	248-48 INJECTOR 4	1.5mm <sup>2</sup>	FLRYW	EIC (42)
52	BLK	248-52 ENG SPD CAMSHAFT	0.75mm <sup>2</sup>	FLRYW	EIC (13)
53	SHLD	248-53 ENG SPD CAMSHAFT	0.75mm <sup>2</sup>	SHLD	EIC (9)
54	BLK	248-54 ENG SPD CRANKSHAFT	0.75mm <sup>2</sup>	FLRYW	EIC (21)

ECM-J1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	148-1 ECM PWR	2.5mm <sup>2</sup>	FLRYW	S944 (2)
2	BLK	148-2 ECM GND	2.5mm <sup>2</sup>	FLRYW	S945 (2)
3	RED	148-3 ECM PWR	2.5mm <sup>2</sup>	FLRYW	S944 (2)
4	BLK	148-4 ECM GND	2.5mm <sup>2</sup>	FLRYW	S945 (2)
5	RED	148-5 ECM PWR	2.5mm <sup>2</sup>	FLRYW	S944 (2)
6	BLK	148-6 ECM GND	2.5mm <sup>2</sup>	FLRYW	S945 (2)
13	BLK	148-13 COOLANT LVL SIG	0.75mm <sup>2</sup>	FLRYW	SN939 (3)
15	BLK	148-15-68 CLUTCH SWITCH	0.75mm <sup>2</sup>	FLRYW	ECM-J1 (68)
26	BLK	148-26 FUL PMP RLY CNTRL GND	0.75mm <sup>2</sup>	FLRYW	RL930 (2)
28	BLK	148-70 STRT GND	0.75mm <sup>2</sup>	FLRYW	EIC (2)
29	BLK	148-29 COOLANT LVL PWR	0.75mm <sup>2</sup>	FLRYW	SN929 (1)
35	BLK	148-35-3 STRT REQ	0.75mm <sup>2</sup>	FLRYW	S1011 (1)
38	BLK	148-38 THROTTLE FLAP 4	0.75mm <sup>2</sup>	FLRYW	EIC (52)
44	BLK	148-44 EXH GAS RECIRCULATION	0.75mm <sup>2</sup>	FLRYW	EIC (50)
53	GRN	CAN LOW	0.75mm <sup>2</sup>	FLRYW	MS1001-1 (B)
54	YEL	CAN HIGH	0.75mm <sup>2</sup>	FLRYW	MS1001-1 (A)
56	BLK	148-56 AIR INLET TEMP	0.75mm <sup>2</sup>	FLRYW	EIC (34)
57	BLK	148-57 WTR IN FUL SW RTN	0.75mm <sup>2</sup>	FLRYW	X941 (2)
61	BLK	148-61 FUL LOW PRESSURE	0.75mm <sup>2</sup>	FLRYW	EIC (17)
64	BLK	148-64 WATER IN FUEL SW	0.75mm <sup>2</sup>	FLRYW	X941 (1)
68	BLK	148-15-68 CLUTCH SWITCH	0.75mm <sup>2</sup>	FLRYW	ECM-J1 (15)
72	BLK	148-72 THROTTLE FLAP 3	0.75mm <sup>2</sup>	FLRYW	EIC (49)
73	BLK	148-71 STRT SIG	0.75mm <sup>2</sup>	FLRYW	EIC (3)
75	YEL	CAN HIGH	0.75mm <sup>2</sup>	FLRYW	MS1001-1 (A)
76	GRN	CAN LOW	0.75mm <sup>2</sup>	FLRYW	MS1001-1 (B)
82	BLK	148-82 EXH GAS RECIRCULATION	0.75mm <sup>2</sup>	FLRYW	EIC (51)
85	BLK	148-82 EXH GAS RECIRCULATION	0.75mm <sup>2</sup>	FLRYW	EIC (46)
87	BLK	148-87 COOLANT LVL GND	0.75mm <sup>2</sup>	FLRYW	SN939 (2)
88	BLK	148-88 IGNITION	0.75mm <sup>2</sup>	FLRYW	S946 (2)

**Figure 7-209. Engine T4I Harness - Sheet 8 of 9**



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Figure 7-210. Engine T4I Harness - Sheet 9 of 9

## 7.8 ELECTRICAL SCHEMATICS

SHEET 2 : PLATFORM BOX  
ELEC ASSY, PLATFORM CONSOLE (SKYGUARD)  
HARNESS, PLATFORM (SKYGUARD)

SHEET 3 : MAIN BOOM TO PLATFORM COMPONENTS  
HARNESS, PLATFORM VLV/SNSR  
HARNESS, AJP BOOM LIFT VLV/SNSR  
HARNESS, ULTRA BOOM CONTROL BOX  
CABLE, MAIN BOOM SNSR  
CABLE, SECONDARY MAIN CONTROL  
HARNESS, JIB LIMIT SWITCHES  
HARNESS, PLATFORM LEVEL SENSORS

SHEET 4 : BLAM  
HARNESS, BLAM

SHEET 5 : UGM - TURNTABLE  
HARNESS, TURNTABLE  
HARNESS, GROUND CONTROL  
CABLE, BATTERY NEGATIVE  
CABLE, BATTERY POSTIVE  
WIRE, RELAY GROUNDING

SHEET 6 : TURNTABLE HYDRAULICS  
HARNESS, TURNTABLE VALVE 1500AJP  
HARNESS, DRV PUMP

SHEET 7 : CHASSIS  
HARNESS, CHASSIS  
CABLE, STEER  
CABLE, M12 MTS CONNECTION

SHEET 8 : ENGINE  
HARNESS, ENGINE T4F BOOM  
CABLE, ENGINE NEGATIVE  
CABLE, ENGINE POSITIVE  
CABLE, ALTERNATOR  
CABLE, AUXILIARY POWER  
CABLE, AUXILIARY NEGATIVE  
CABLE, BAT TO AUX RLY  
HARNESS, FUEL PUMP & WIF

SHEET 9 : UREA TANK/ SUPPLY MODULE/ OPTIONS  
HARNESS, UREA TANK  
HARNESS, GENERATOR ENABLE  
HARNESS, HEAD & TAIL LT  
HARNESS, PLATFORM FLOOD LIGHTS  
INSTALL, PLATF WORK LIGHTS  
HARNESS, STROBE  
INSTALL, PLATFORM BEACON  
HARNESS, PLATFORM BEACON

SHEET 10 : TIER 4I ENGINE  
HARNESS, ENGINE T4I

SHEET-1

1001194252-F  
MAE35230F

Figure 7-211. Electrical Schematics - Sheet 1 of 19

# SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

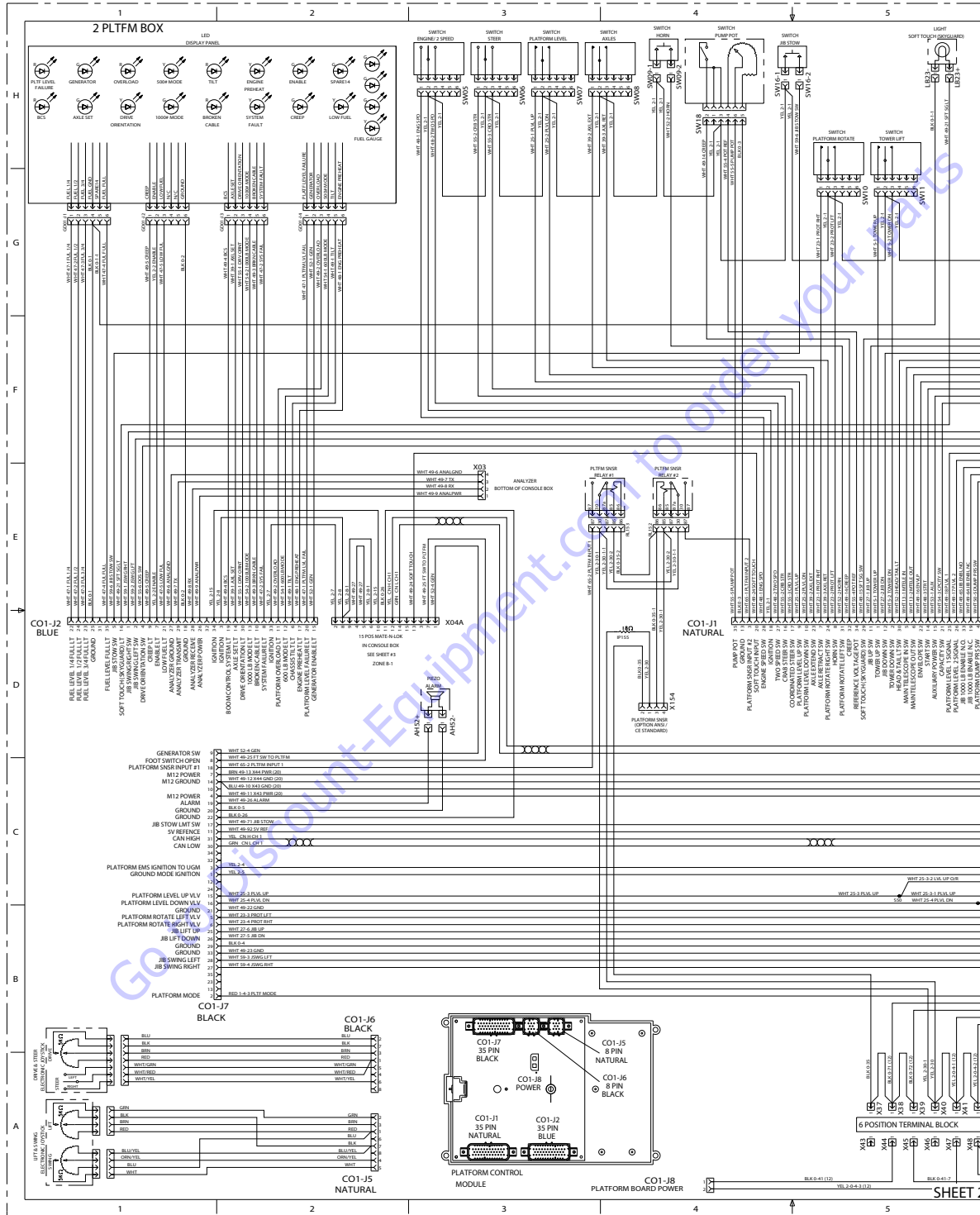


Figure 7-212. Electrical Schematics - Sheet 2 of 19

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

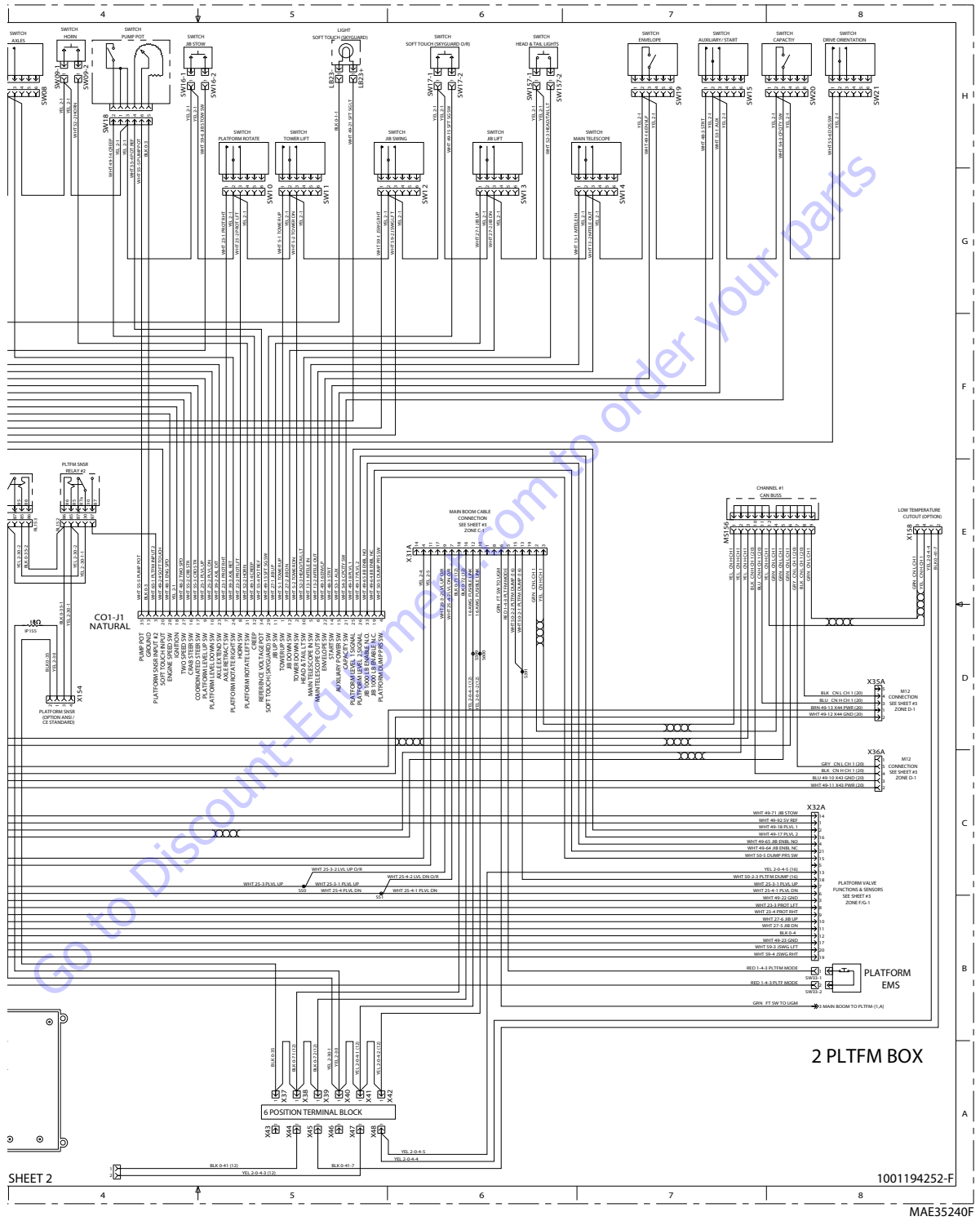


Figure 7-213. Electrical Schematics - Sheet 3 of 19

# SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

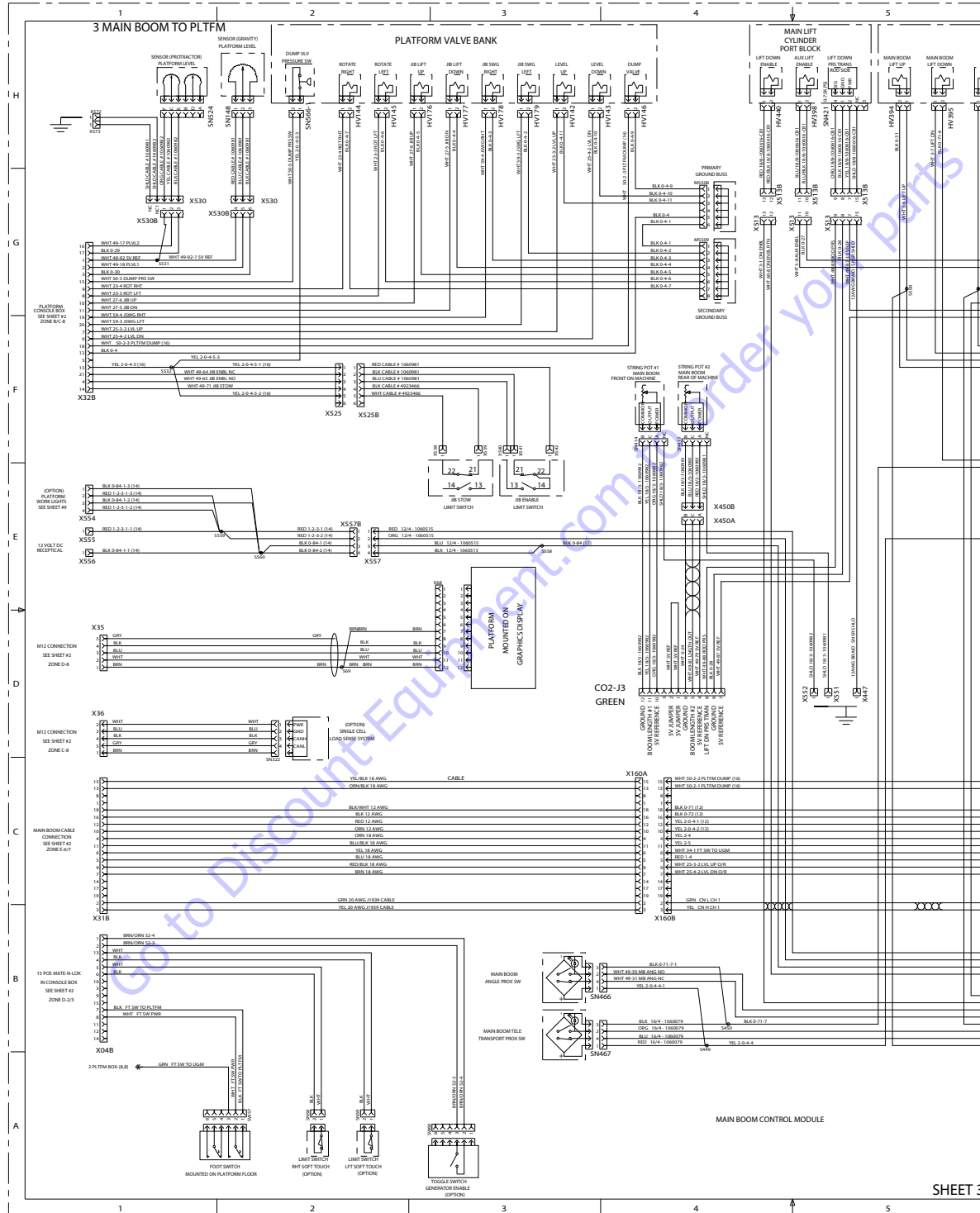


Figure 7-214. Electrical Schematics - Sheet 4 of 19

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

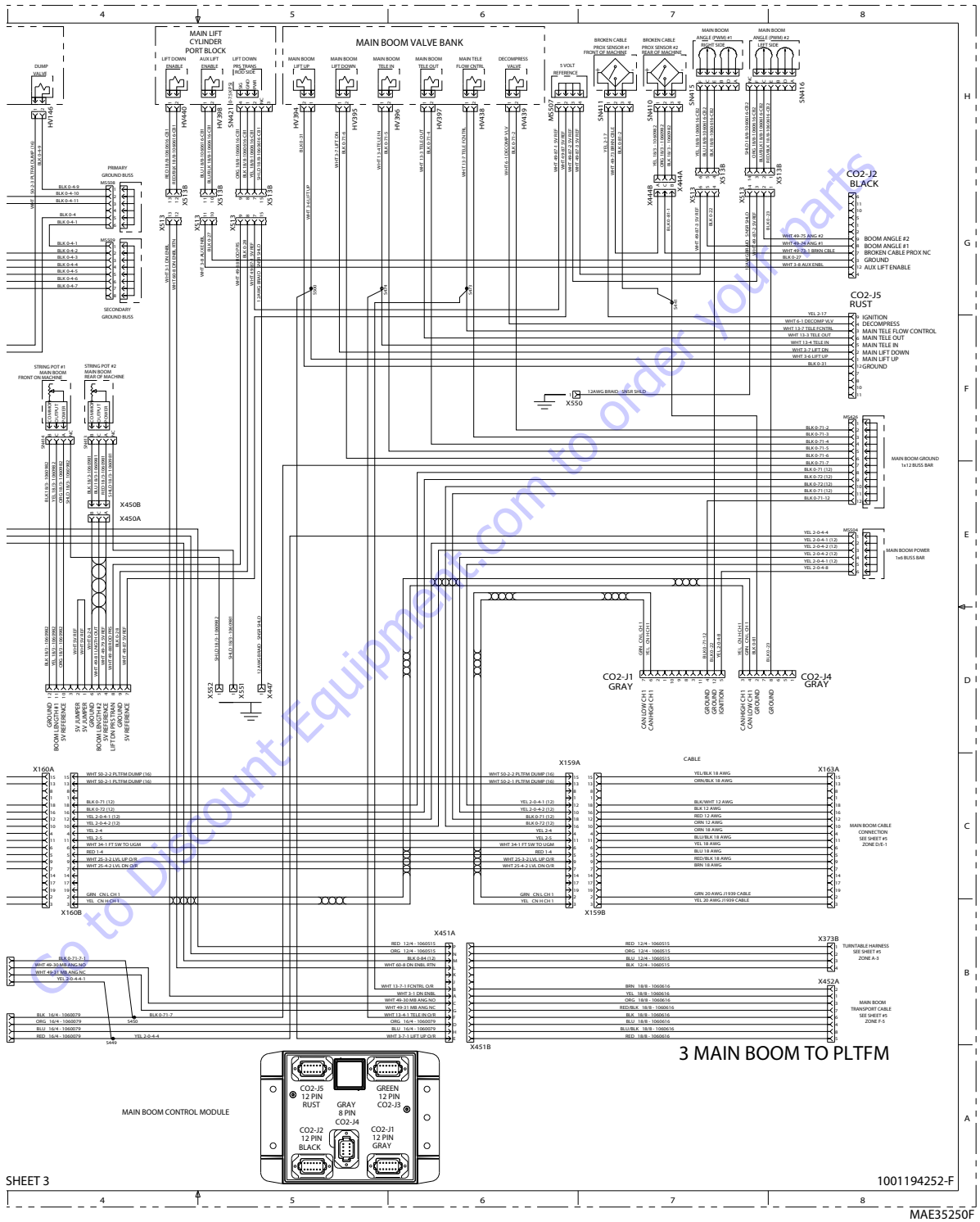
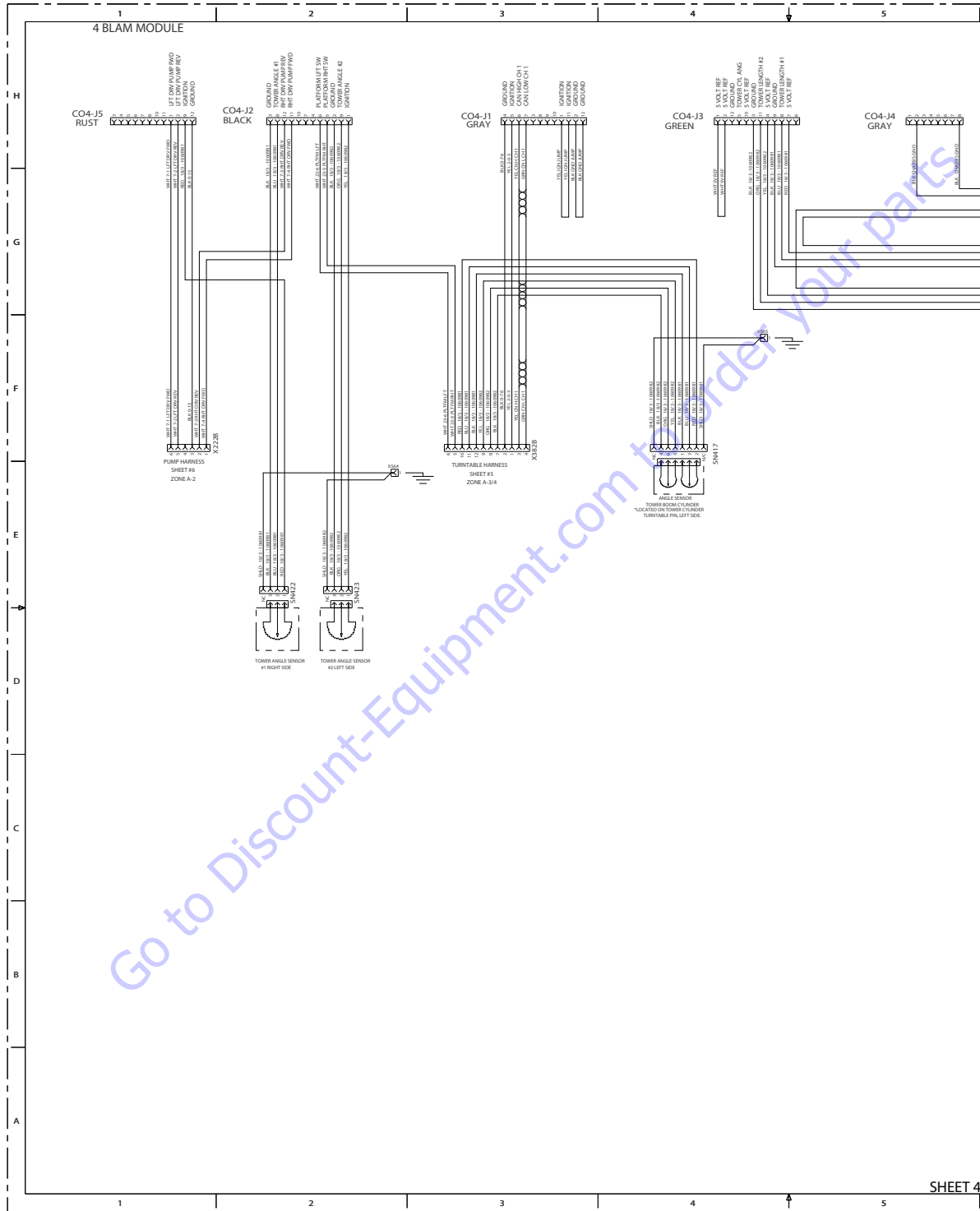


Figure 7-215. Electrical Schematics - Sheet 5 of 19



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



**Figure 7-216. Electrical Schematics - Sheet 6 of 19**

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

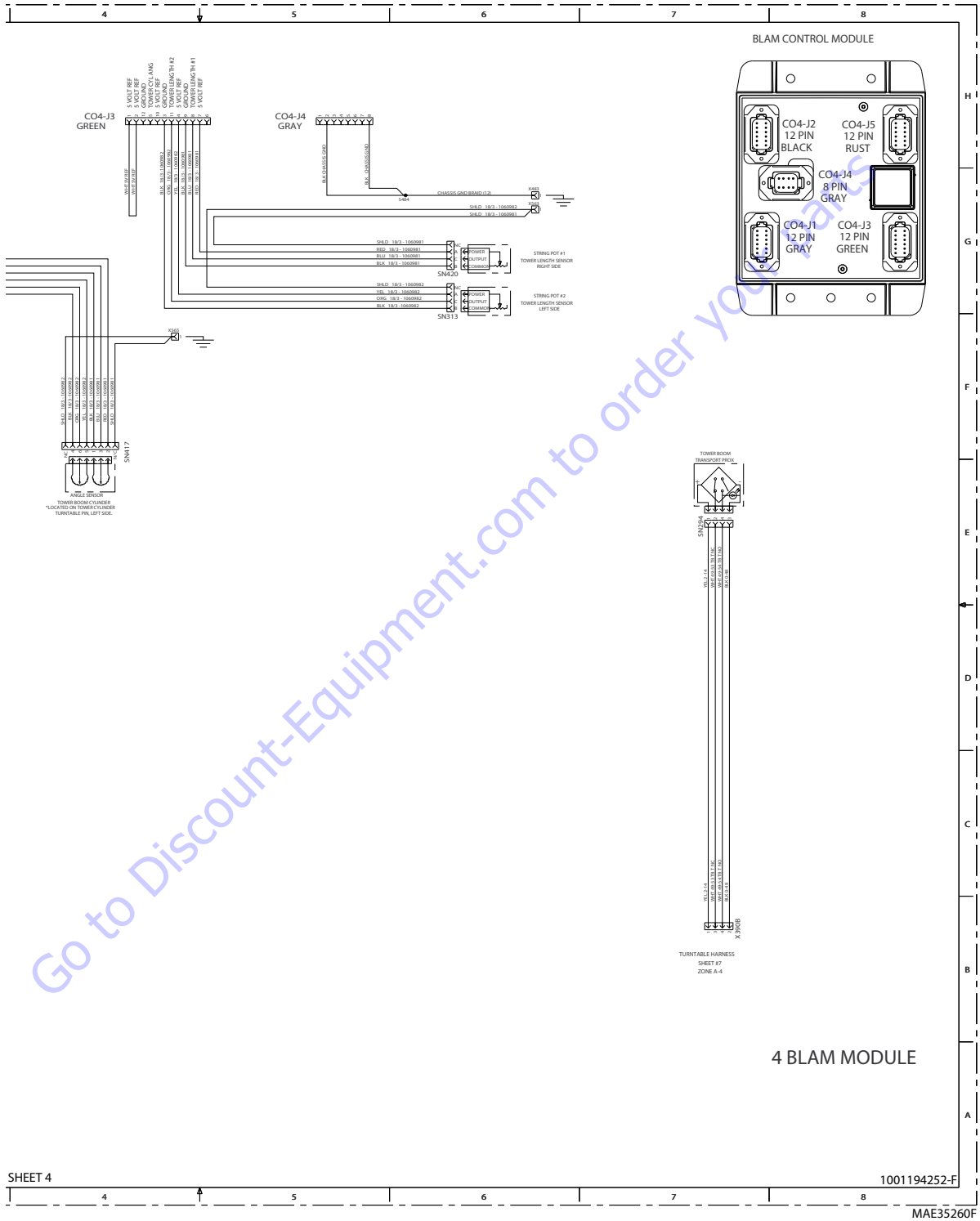
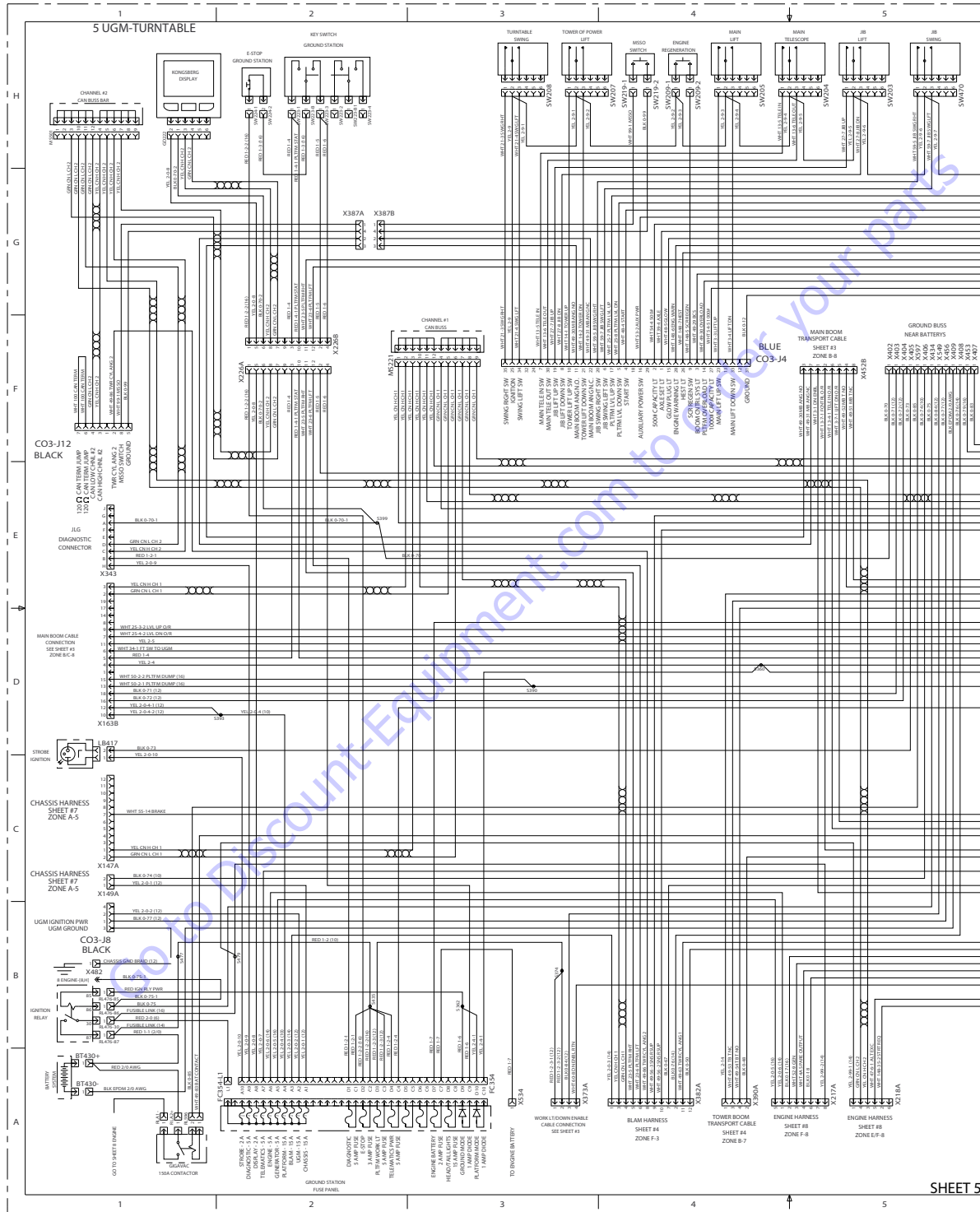


Figure 7-217. Electrical Schematics - Sheet 7 of 19

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



**Figure 7-218. Electrical Schematics - Sheet 8 of 19**

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

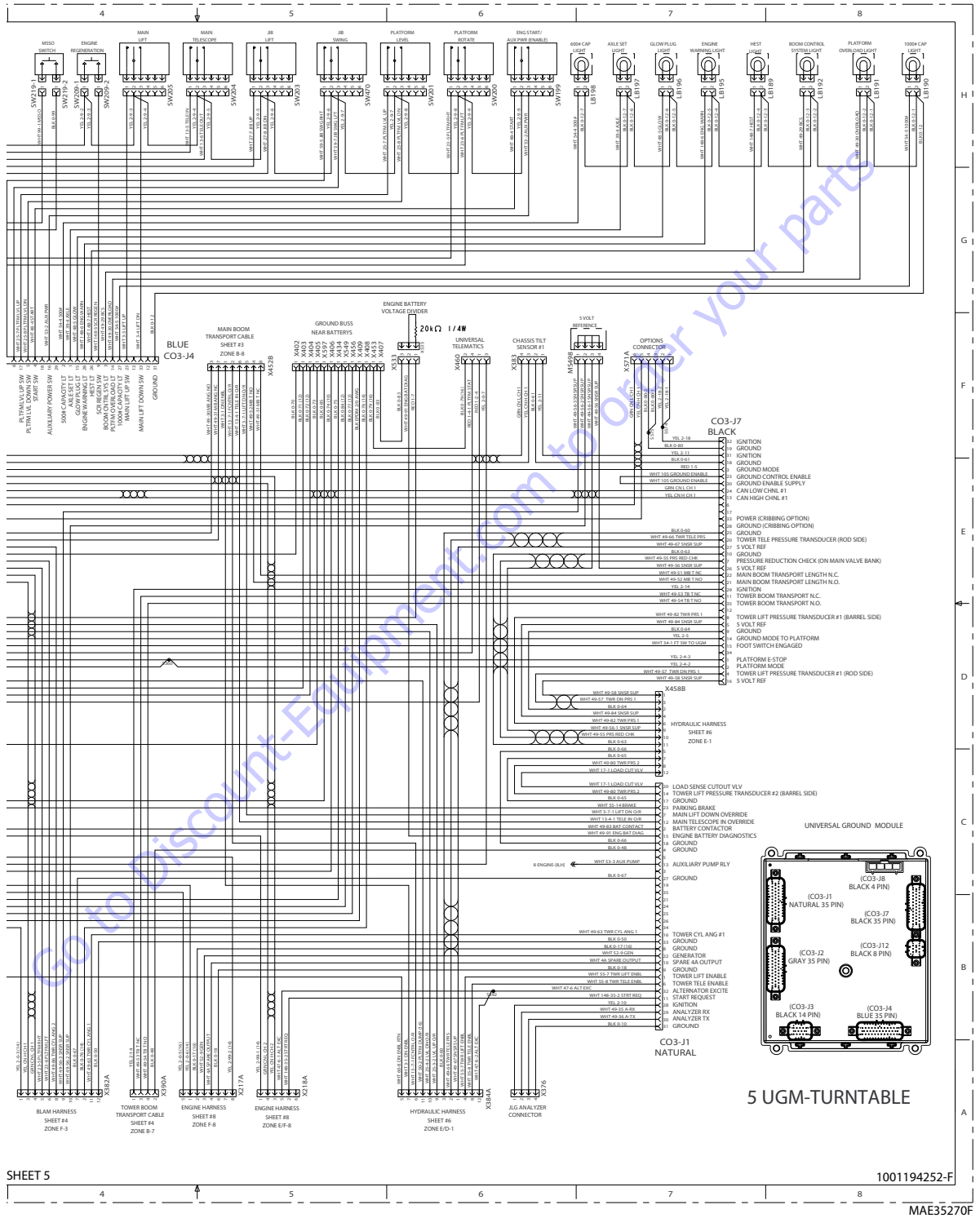


Figure 7-219. Electrical Schematics - Sheet 9 of 19

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

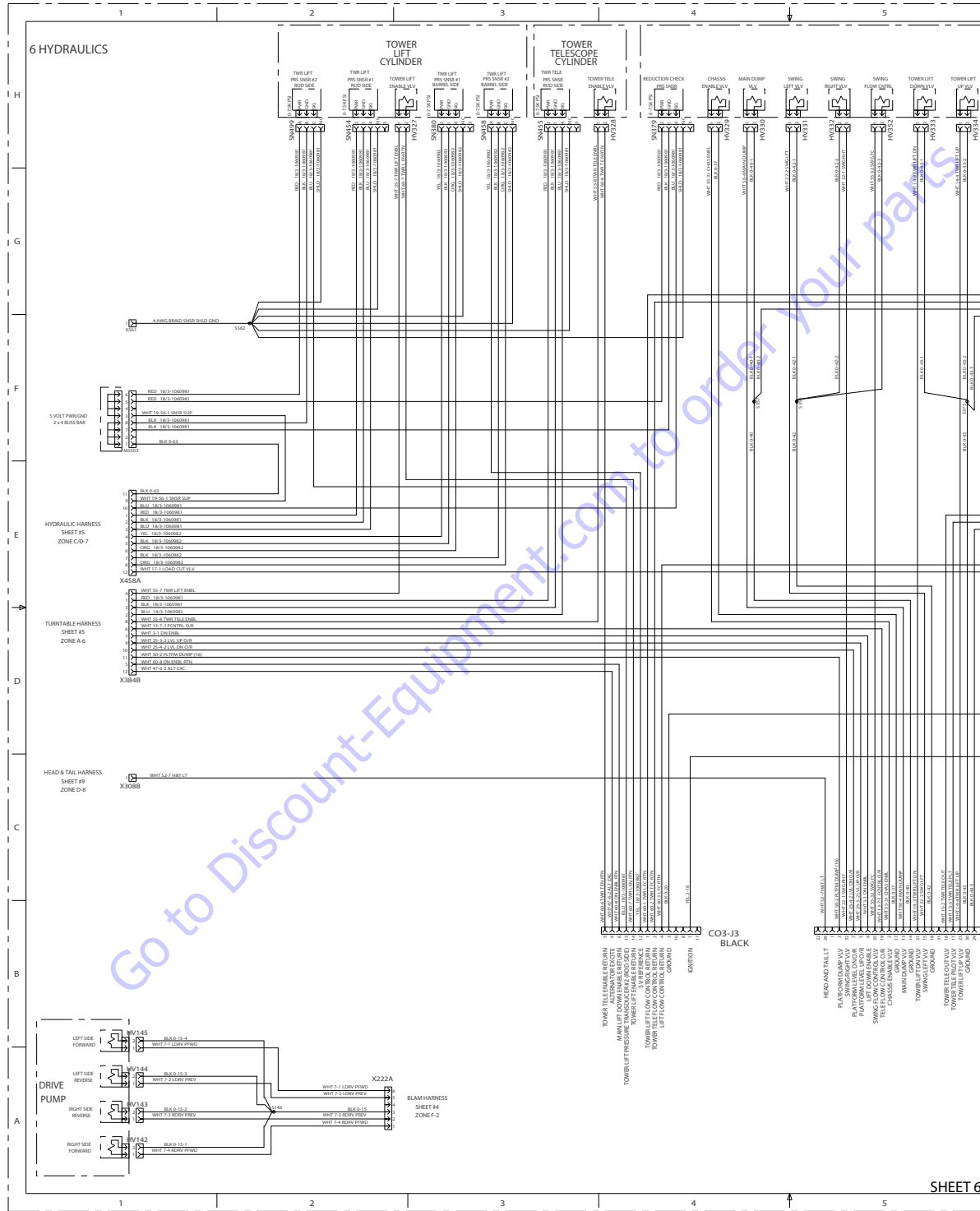


Figure 7-220. Electrical Schematics - Sheet 10 of 19

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

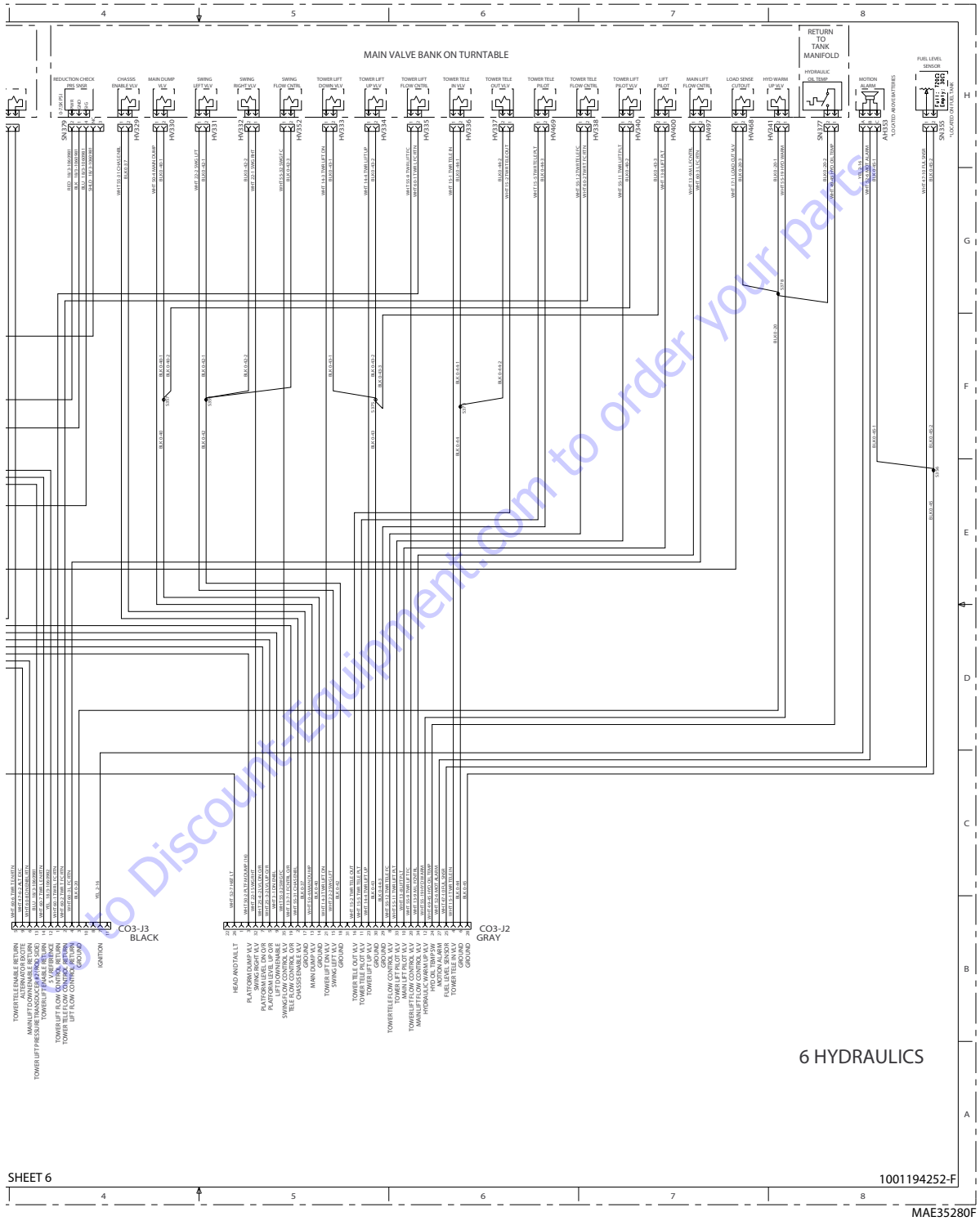
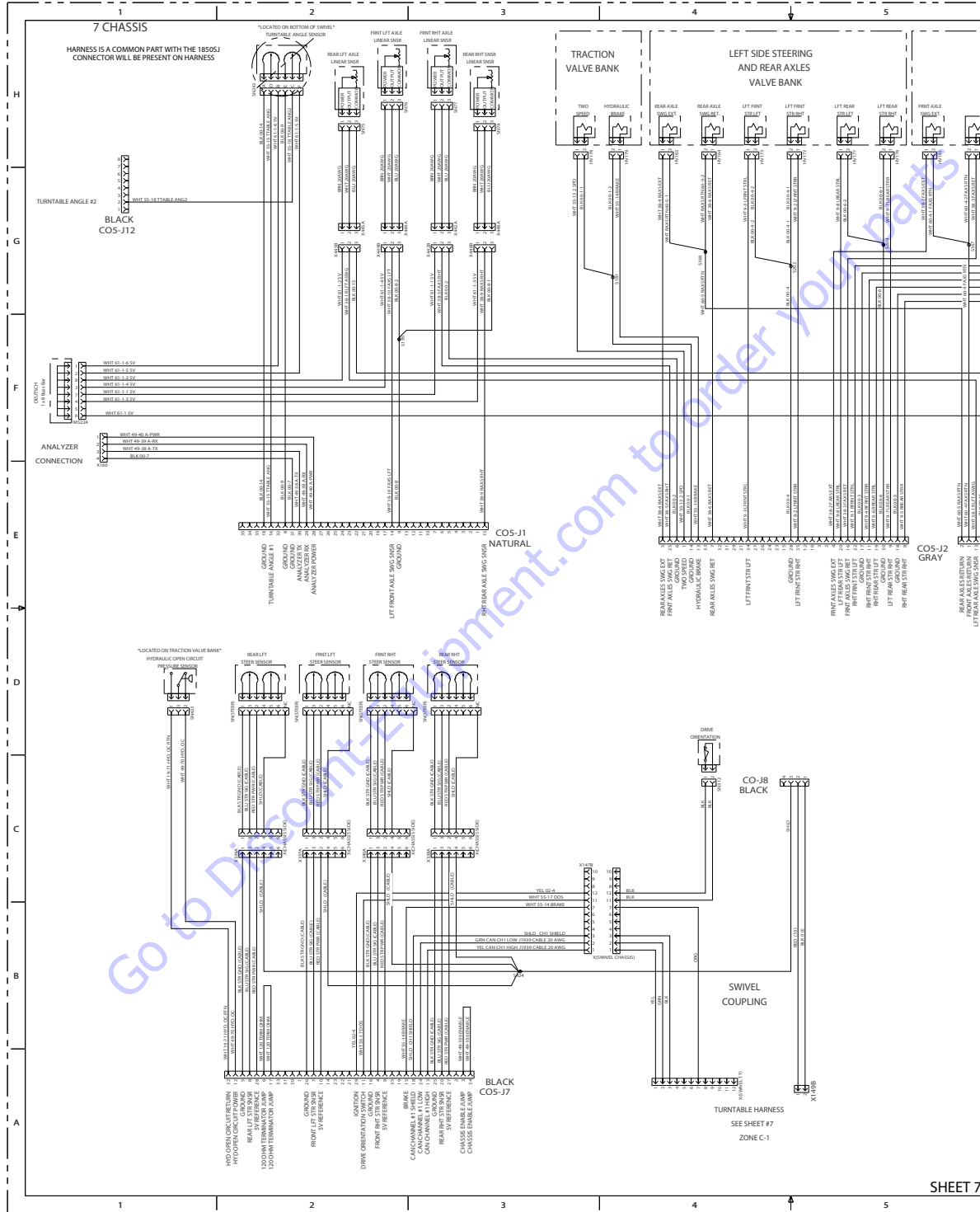


Figure 7-21. Electrical Schematics - Sheet 11 of 19

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



**Figure 7-222. Electrical Schematics - Sheet 12 of 19**

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

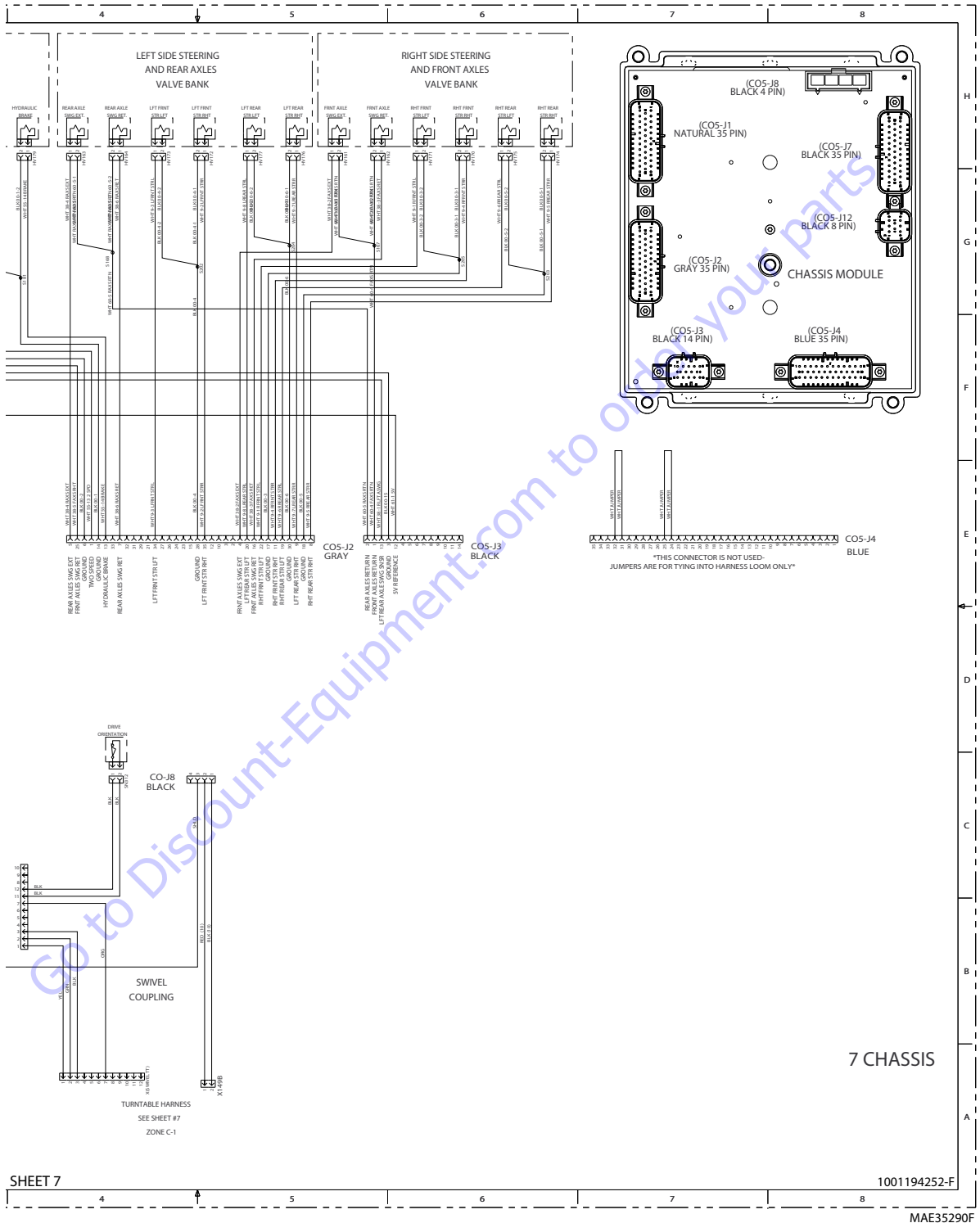


Figure 7-223. Electrical Schematics - Sheet 13 of 19



# SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

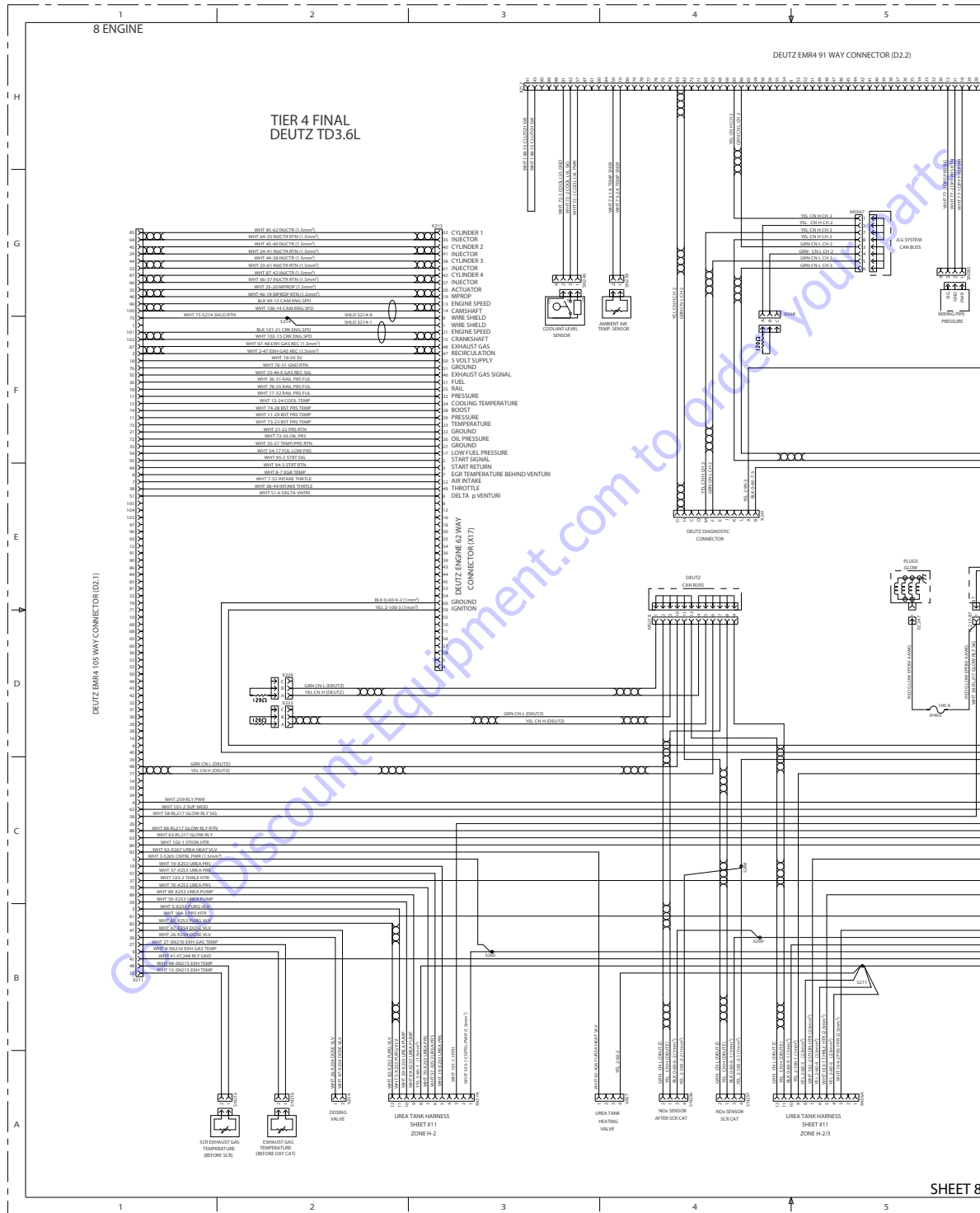
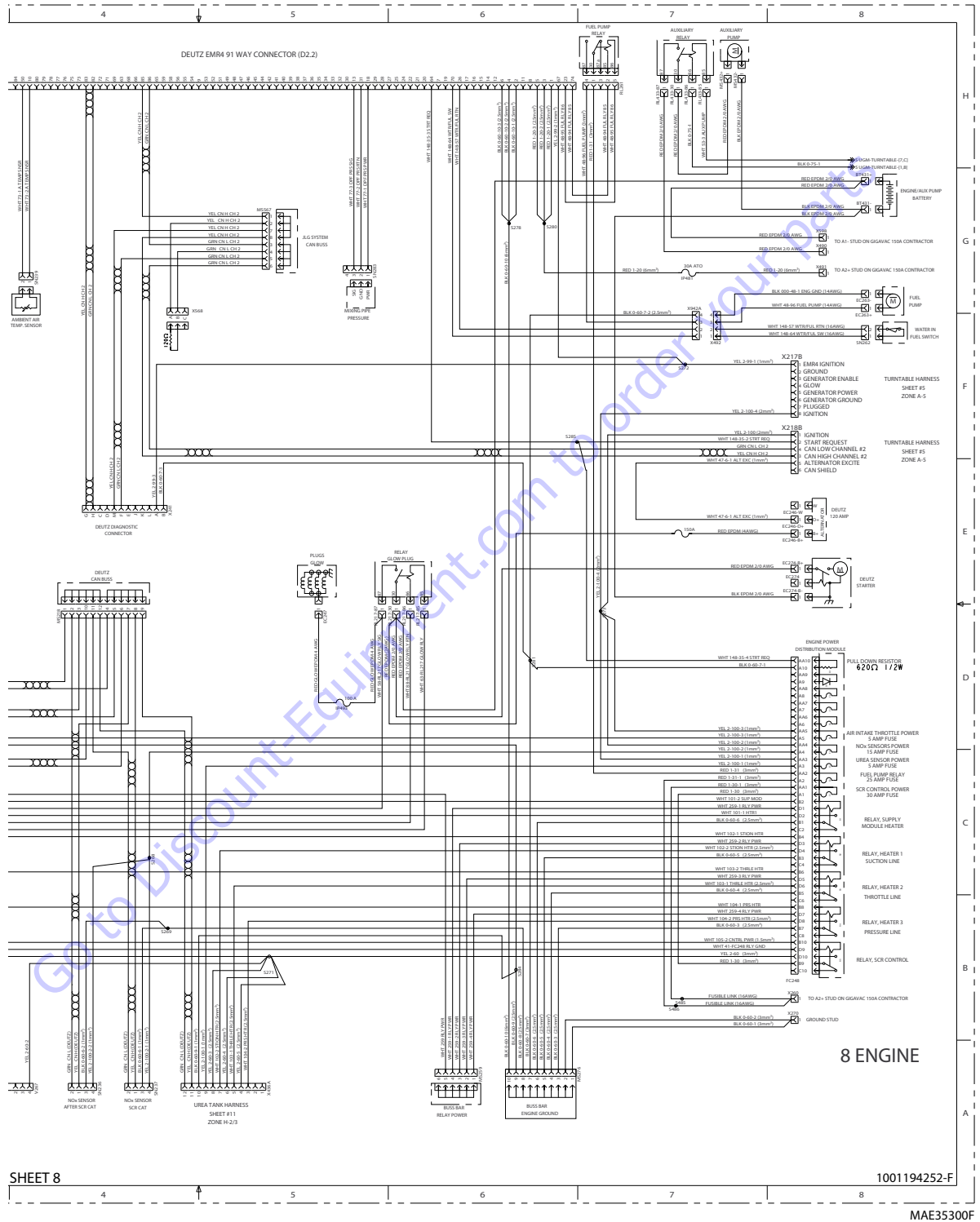


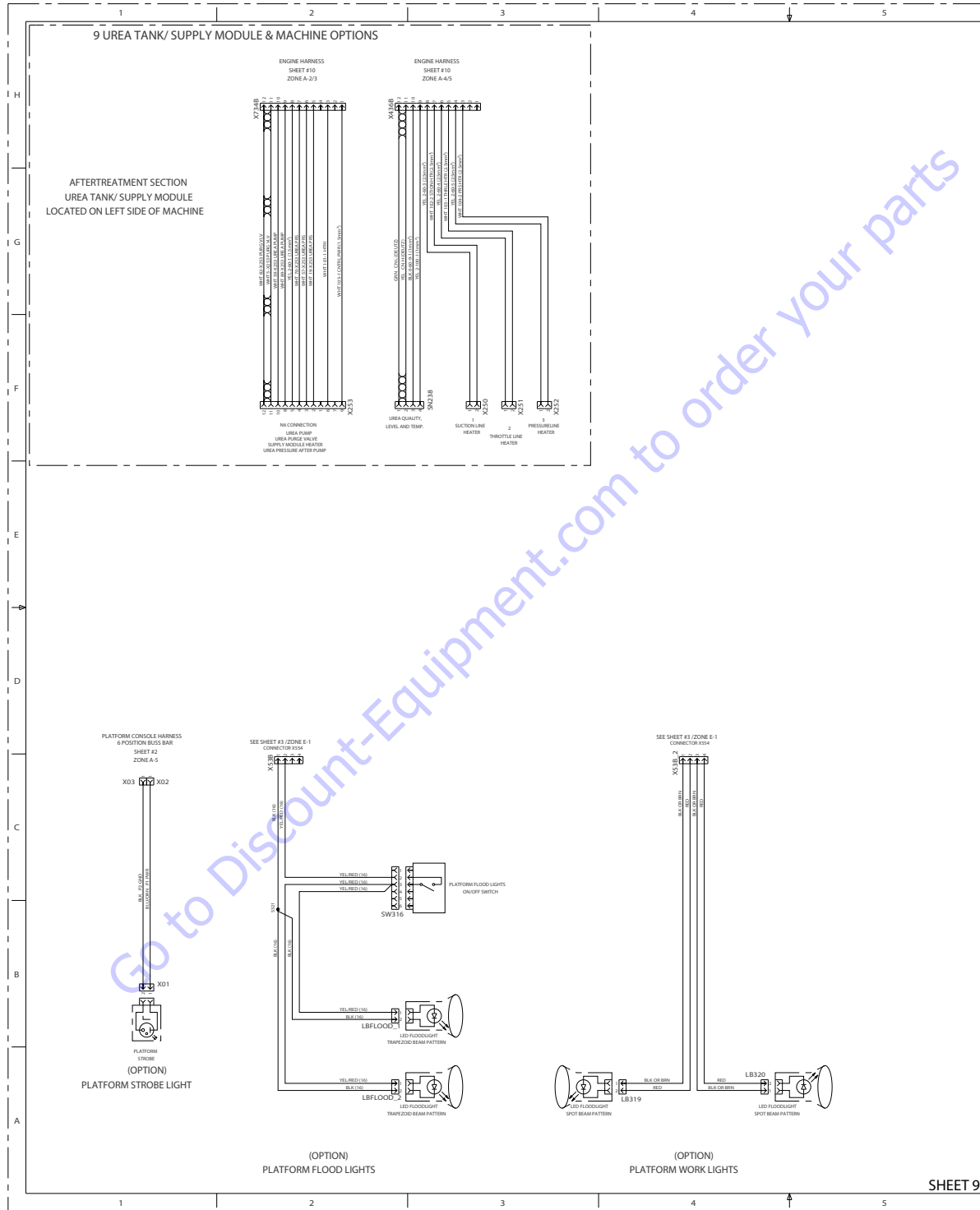
Figure 7-224. Electrical Schematics - Sheet 14 of 19

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



**Figure 7-225. Electrical Schematics - Sheet 15 of 19**

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



**Figure 7-226. Electrical Schematics - Sheet 16 of 19**

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

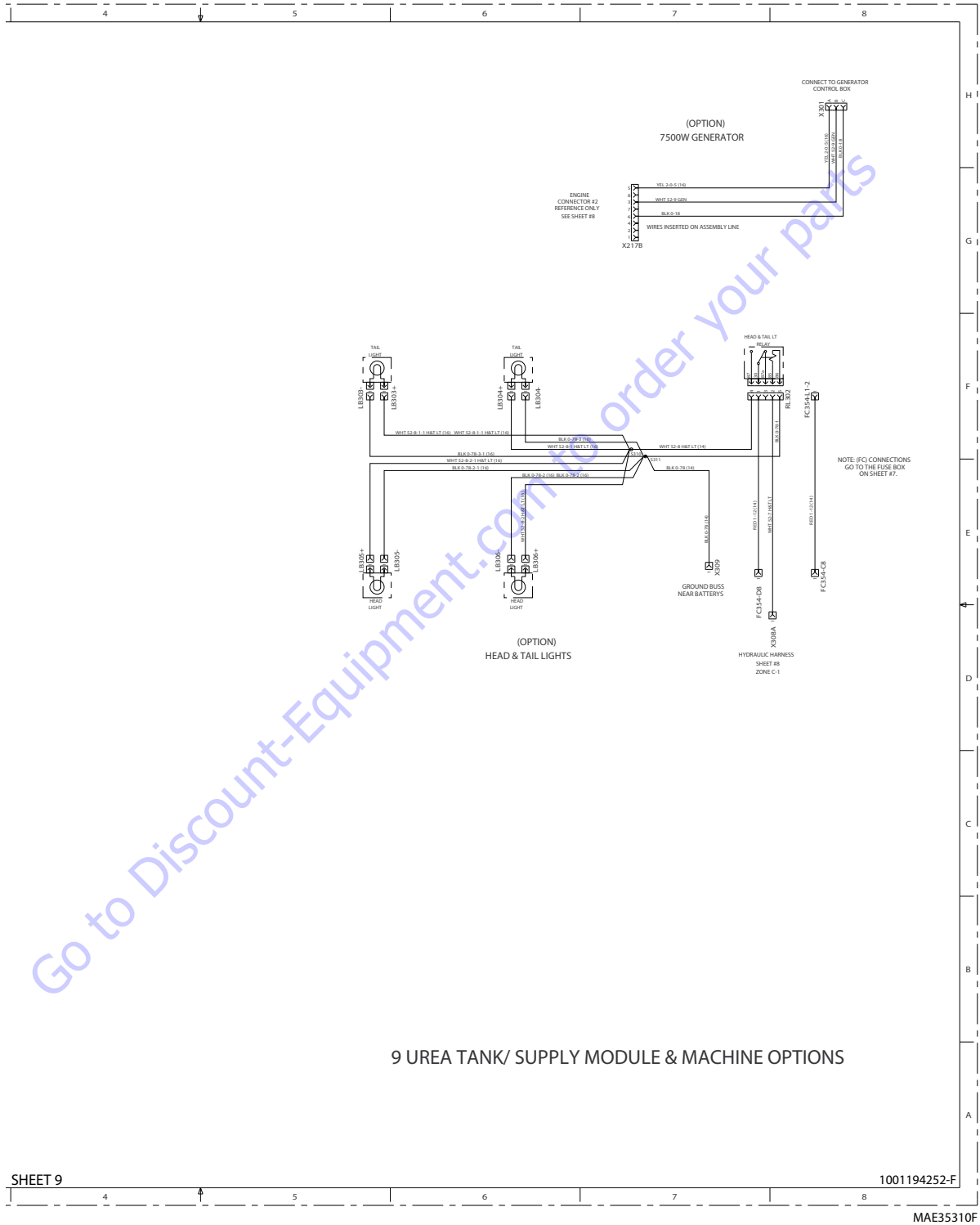


Figure 7-227. Electrical Schematics - Sheet 17 of 19

# SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

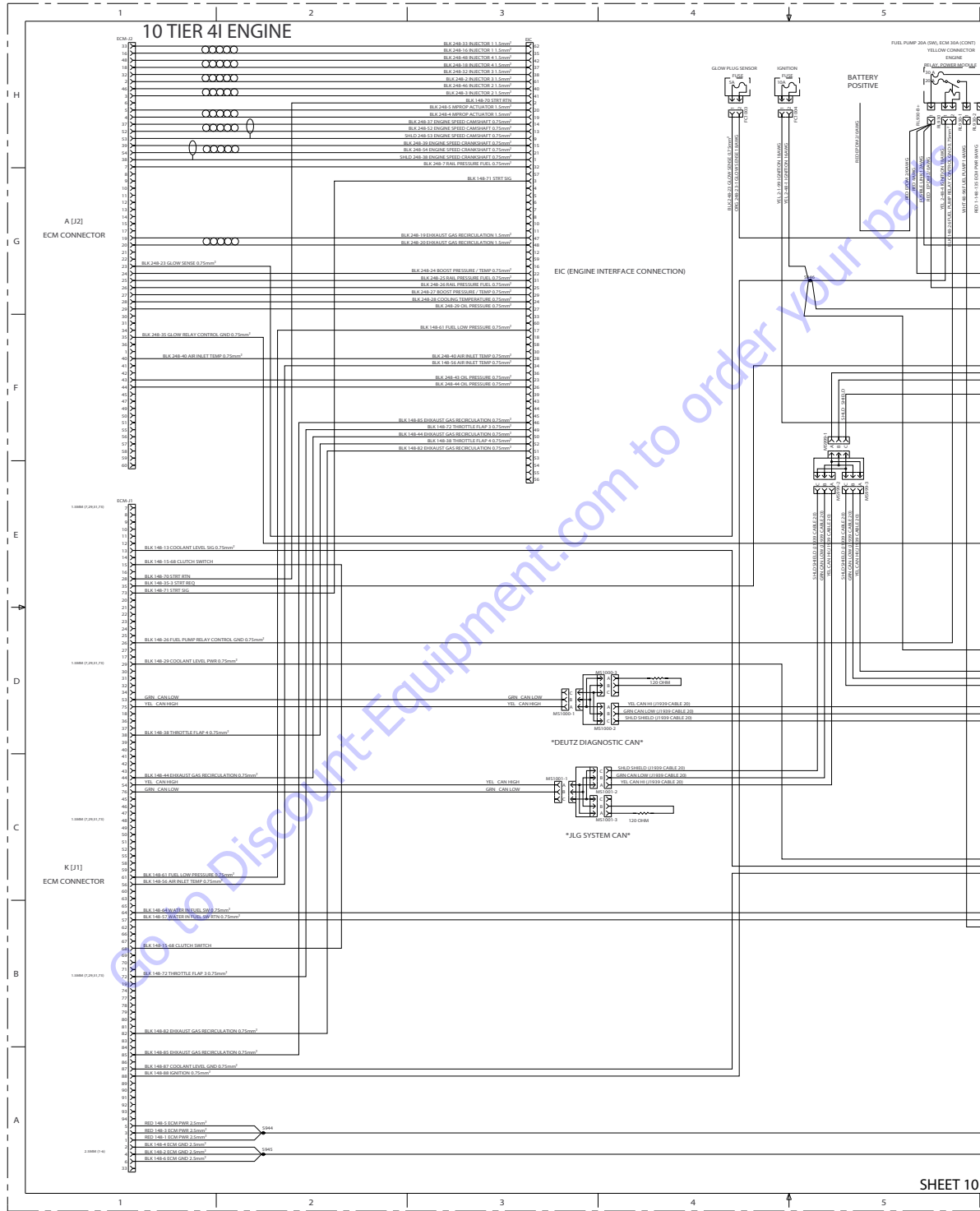


Figure 7-228. Electrical Schematics - Sheet 18 of 19

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

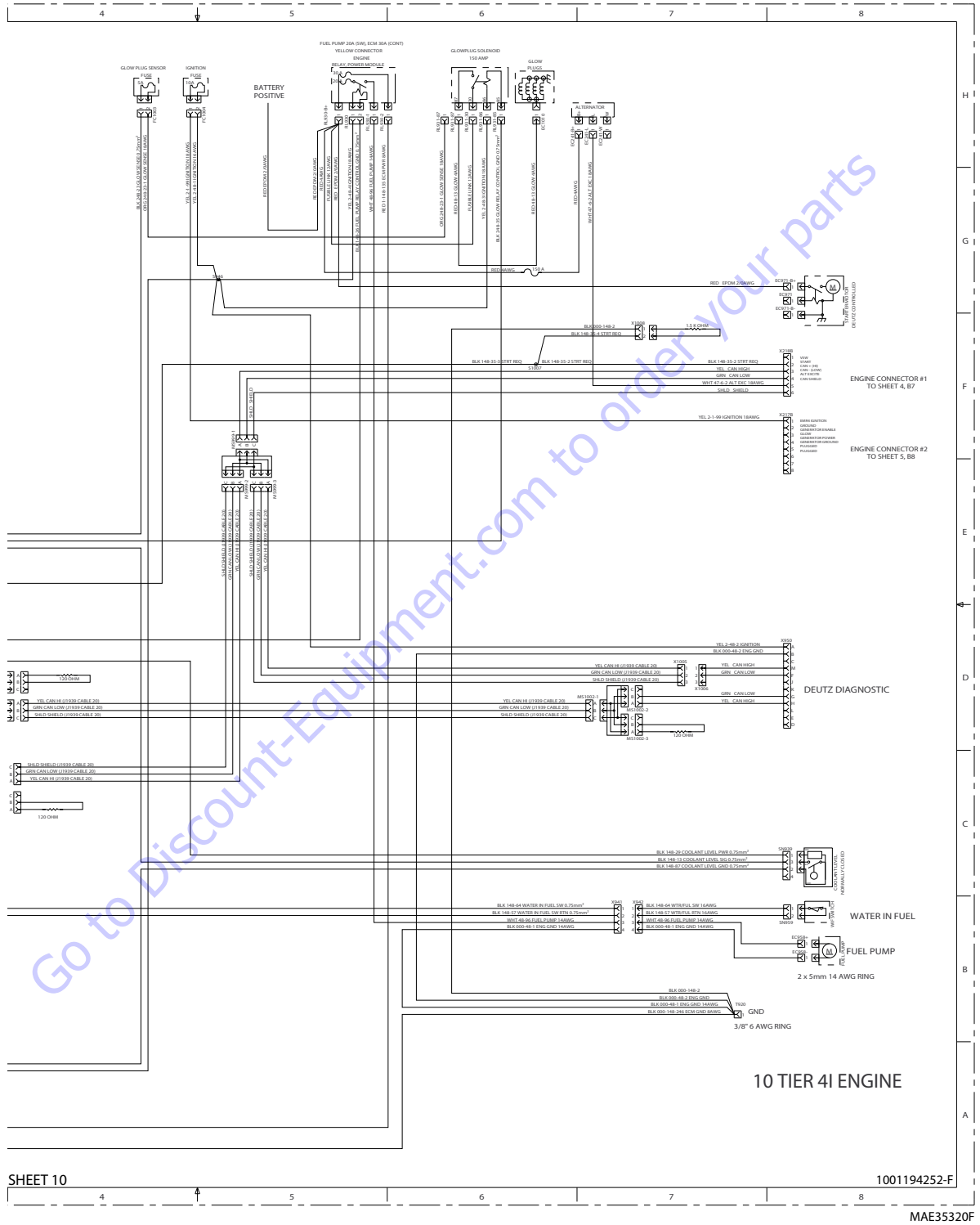
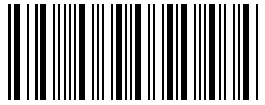


Figure 7-229. Electrical Schematics - Sheet 19 of 19



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