

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

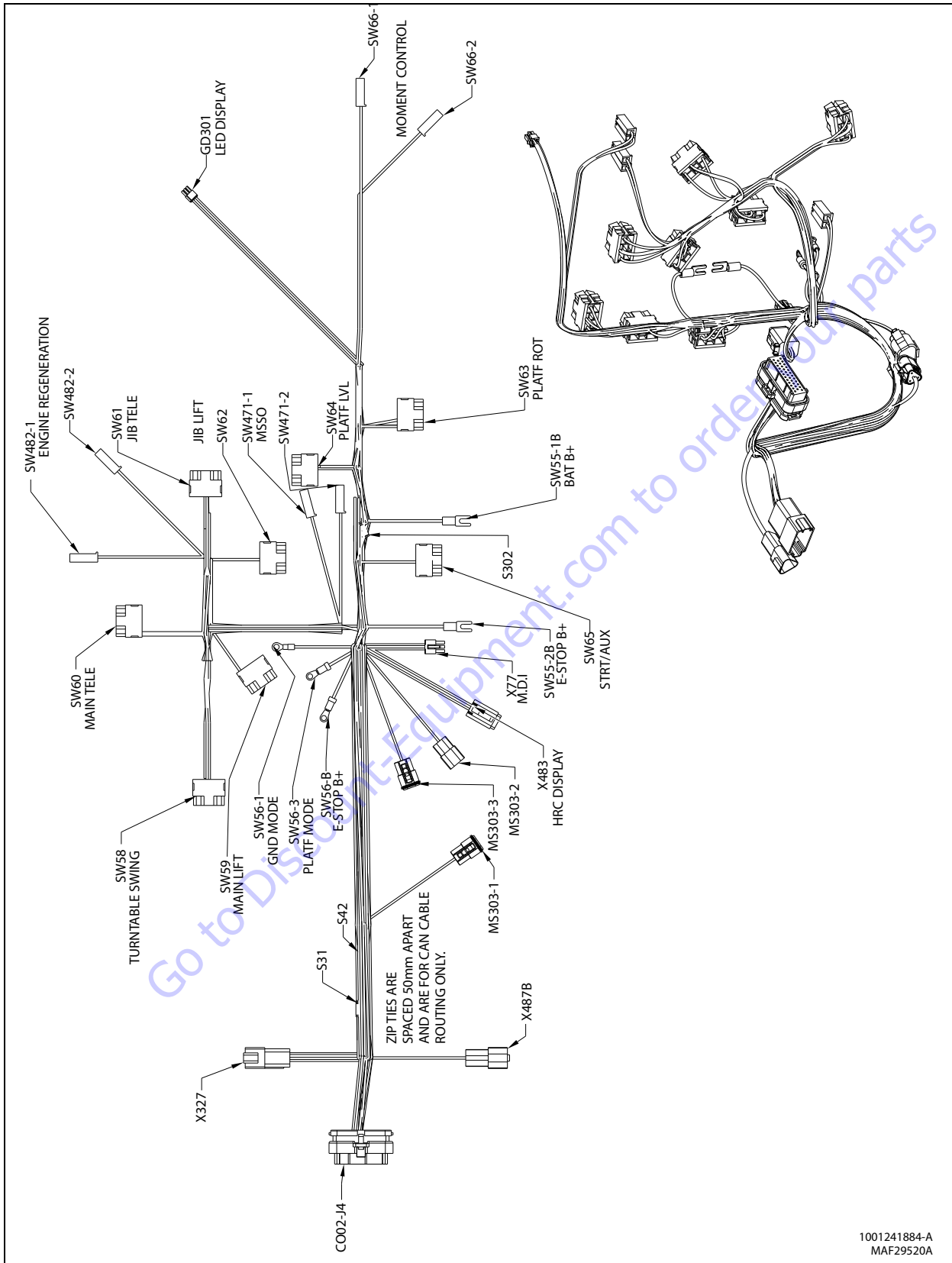


Figure 7-41. Ground Console Wiring Harness - Sheet 1 of 3

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SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

CO02-J4					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2					
3					
4	WHT	48-4 STRT	18 AWG	GXL	SW65 (1)
5	WHT	25-8 P-LVL DN	18 AWG	GXL	SW64 (3)
6	WHT	23-6 P-ROT LFT	18 AWG	GXL	SW63 (3)
7	WHT	13-5 TELE IN	18 AWG	GXL	SW60 (1)
8	WHT	27-4 JIB DN	18 AWG	GXL	SW62 (1)
9	WHT	148-5 REGEN	18 AWG	GXL	SW482-1 (1)
10					
11	WHT	29-3 JIB IN	18 AWG	GXL	SW61 (1)
12					
13					
14					
15					
16	WHT	53-2 AUX	18 AWG	GXL	SW65 (3)
17	WHT	25-7 P-LVL UP	18 AWG	GXL	SW64 (1)
18	WHT	23-5 P-ROT RHT	18 AWG	GXL	SW63 (1)
19	WHT	27-5 JIB UP	18 AWG	GXL	SW62 (3)
20					
21					
22	WHT	29-4 JIB OUT	18 AWG	GXL	SW61 (3)
23	WHT	3-3 LIFT UP	18 AWG	GXL	SW59 (1)
24	YEL	2-16 DISPLAY PWR	18 AWG	GXL	S302 (1)
25	YEL	2-9	18 AWG	GXL	SW58 (2)
26					
27					
28					
29					
30	WHT	13-6 TELE OUT	18 AWG	GXL	SW60 (3)
31	BLK	0-12	20 AWG	TXL	GD301 (6)
32					
33	WHT	3-4 LIFT DN	18 AWG	GXL	SW59 (3)
34	WHT	21-3 SWG LFT	18 AWG	GXL	SW58 (1)
35	WHT	21-4 SWG RHT	18 AWG	GXL	SW58 (3)

X327					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-5-1-1	16 AWG	GXL	SW55-1B (1B)
2	RED	1-4-1	18 AWG	GXL	SW56-3 (1)
3	RED	1-4-3	18 AWG	GXL	SW56-1 (1)
4	RED	1-4-2	16 AWG	GXL	SW56-3 (1)
5	YEL	2-12	18 AWG	GXL	S31 (1)
6	BLK	0-19-1	18 AWG	GXL	S42 (1)
7	GRN	CAN LO	20 AWG	J1939 CABLE	MS303-1 (B)
8	YEL	CAN HI	20 AWG	J1939 CABLE	MS303-1 (A)
9	WHT	49-46 MCNTRL	18 AWG	GXL	SW66-2 (1)
10					
11	WHT	44-1 MSSO	18 AWG	GXL	SW471-1 (1)
12	BLK	0-44	18 AWG	GXL	SW471-2 (1)

X77					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-12-1	18 AWG	GXL	S31 (2)
2	BLK	0-19-3	18 AWG	GXL	S42 (2)
3	GRN	CAN (20)	20 AWG	J1939 CABLE	MS303-2 (B)
4	YEL	CAN (20)	20 AWG	J1939 CABLE	MS303-2 (A)
5					
6					

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

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

SW63					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	23-5 P-ROT RHT	18 AWG	GXL	CO02-J4 (18)
2	YEL	2-9-6	18 AWG	GXL	SW62 (2)
2	YEL	2-9-8	18 AWG	GXL	SW64 (2)
3	WHT	23-6 P-ROT LFT	18 AWG	GXL	CO02-J4 (6)

MS303-1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CAN HI	20 AWG	J1939 CABLE	X327 (8)
B	GRN	CAN LO	20 AWG	J1939 CABLE	X327 (7)
C					

MS303-2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CAN (20)	20 AWG	J1939 CABLE	X77 (4)
B	GRN	CAN (20)	20 AWG	J1939 CABLE	X77 (3)
C					

MS303-3					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A	YEL	CAN HI	20 AWG	TXL	GD301 (1)
B	GRN	CAN LOW	20 AWG	TXL	GD301 (4)
C					

GD301					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	CAN HI	20 AWG	TXL	MS303-3 (A)
2	YEL	2-16-2 DISPLAY PWR	20 AWG	TXL	S302 (2)
3	YEL	2-16-1 DISPLAY PWR	20 AWG	TXL	S302 (2)
4	GRN	CAN LOW	20 AWG	TXL	MS303-3 (B)
5					
6	BLK	0-12	20 AWG	TXL	CO02-J4 (31)

S302					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-16 DISPLAY PWR	18 AWG	GXL	CO02-J4 (24)
2	YEL	2-16-1 DISPLAY PWR	20 AWG	TXL	GD301 (3)
2	YEL	2-16-2 DISPLAY PWR	20 AWG	TXL	GD301 (2)

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

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

SW64					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	25-7 P-LVL UP	18 AWG	GXL	CO02-J4 (17)
2	YEL	2-9-8	18 AWG	GXL	SW63 (2)
2	YEL	2-9-9	18 AWG	GXL	SW65 (2)
3	WHT	25-8 P-LVL DN	18 AWG	GXL	CO02-J4 (5)

S42					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	BLK	0-19-1	18 AWG	GXL	X327 (6)
2	BLK	0-19-2	18 AWG	GXL	X483 (1)
2	BLK	0-19-3	18 AWG	GXL	X77 (2)

SW65					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	48-4 STRT	18 AWG	GXL	CO02-J4 (4)
2	YEL	2-9-10	18 AWG	GXL	SW482-2 (1)
2	YEL	2-9-9	18 AWG	GXL	SW64 (2)
3	WHT	53-2 AUX	18 AWG	GXL	CO02-J4 (16)

SW59					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	3-3 LIFT UP	18 AWG	GXL	CO02-J4 (23)
2	YEL	2-9-1	18 AWG	GXL	SW58 (2)
2	YEL	2-9-2	18 AWG	GXL	SW60 (2)
3	WHT	3-4 LIFT DN	18 AWG	GXL	CO02-J4 (33)

Figure 7-42. Ground Console Wiring Harness - Sheet 2 of 3

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

SW62					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	27-4 JIB DN	18 AWG	GXL	CO02-J4 (8)
2	YEL	2-9-5	18 AWG	GXL	SW61 (2)
2	YEL	2-9-6	18 AWG	GXL	SW63 (2)
3	WHT	27-5 JIB UP	18 AWG	GXL	CO02-J4 (19)

SW61					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	29-3 JIB IN	18 AWG	GXL	CO02-J4 (11)
2	YEL	2-9-4	18 AWG	GXL	SW66-1 (1)
2	YEL	2-9-5	18 AWG	GXL	SW62 (2)
3	WHT	29-4 JIB OUT	18 AWG	GXL	CO02-J4 (22)

SW60					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	13-5 TELE IN	18 AWG	GXL	CO02-J4 (7)
2	YEL	2-9-2	18 AWG	GXL	SW59 (2)
2	YEL	2-9-3	18 AWG	GXL	SW66-1 (1)
3	WHT	13-6 TELE OUT	18 AWG	GXL	CO02-J4 (30)

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

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

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

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

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

SW58					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	21-3 SWG LFT	18 AWG	GXL	CO02-J4 (34)
2	YEL	2-9	18 AWG	GXL	CO02-J4 (25)
2	YEL	2-9-1	18 AWG	GXL	SW59 (2)
3	WHT	21-4 SWG RHT	18 AWG	GXL	CO02-J4 (35)

SW482-1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	148-5 REGEN	18 AWG	GXL	CO02-J4 (9)

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

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

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

S31					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-12	18 AWG	GXL	X327 (5)
2	YEL	2-12-1	18 AWG	GXL	X77 (1)
2	YEL	2-12-2	18 AWG	GXL	X483 (2)

Figure 7-43. Ground Console Wiring Harness - Sheet 3 of 3

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

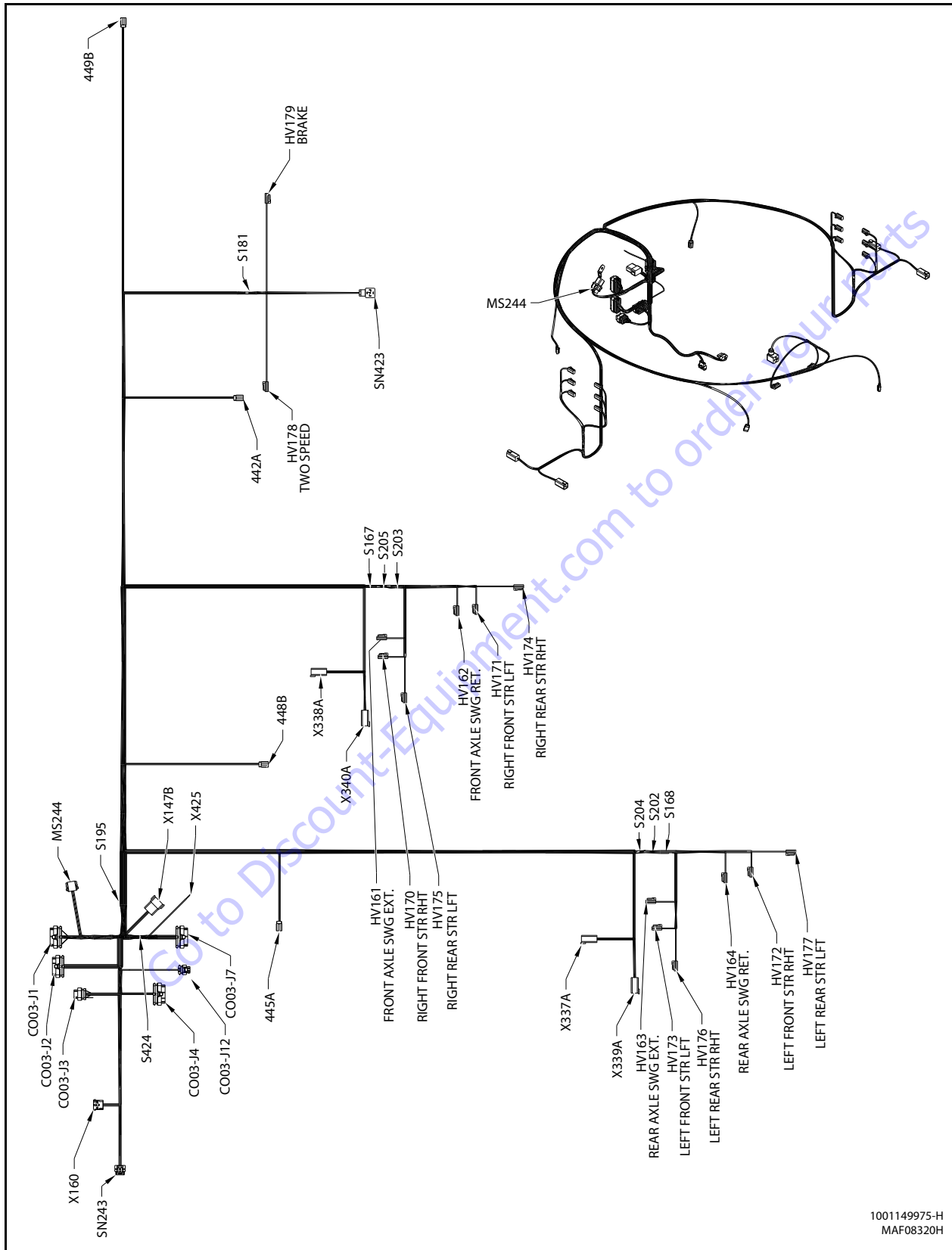


Figure 7-44. Chassis Harness

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

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

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

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

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SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

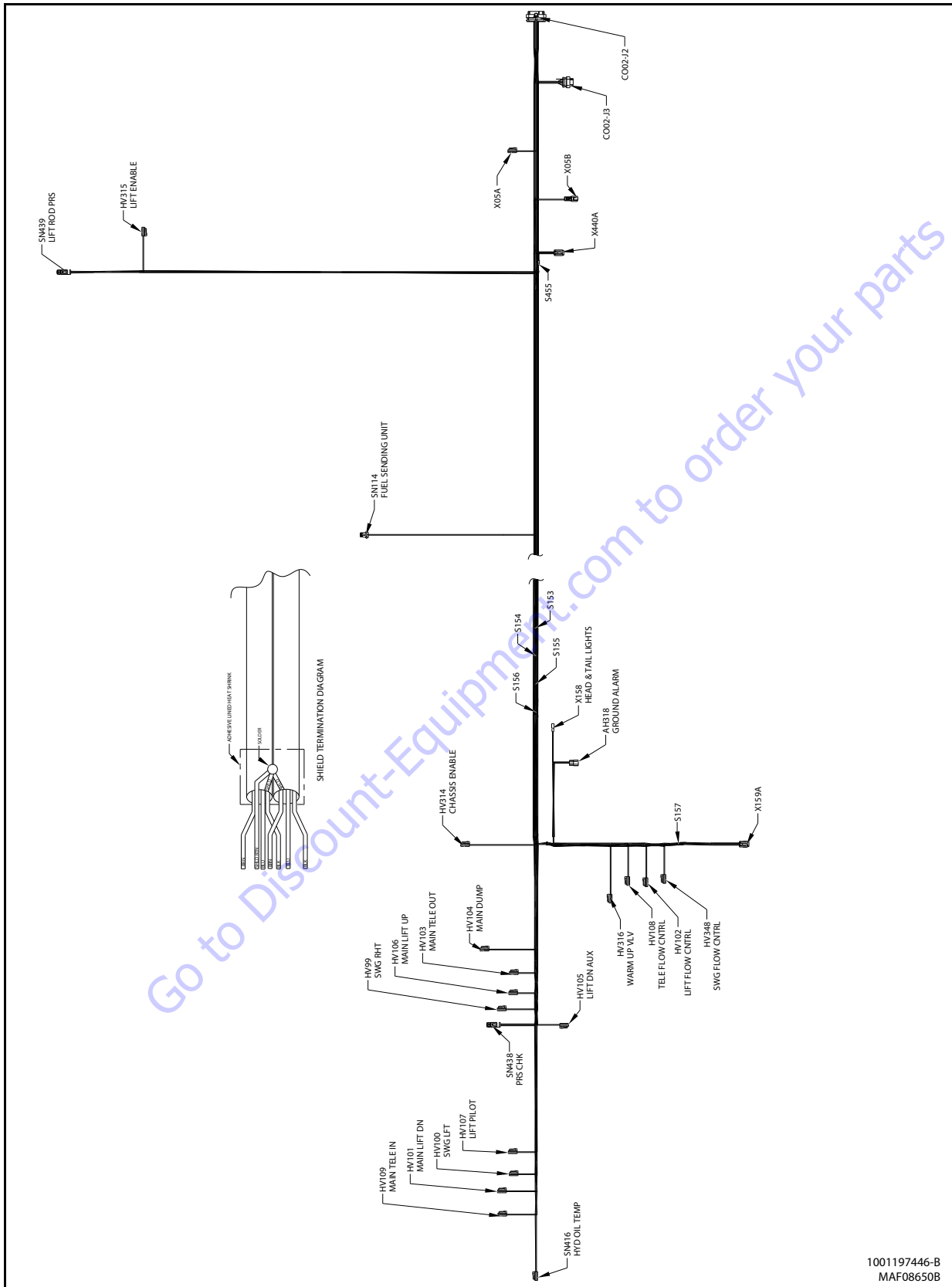


Figure 7-45. Hydraulic Valve Bank Harness

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MAF08650B

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

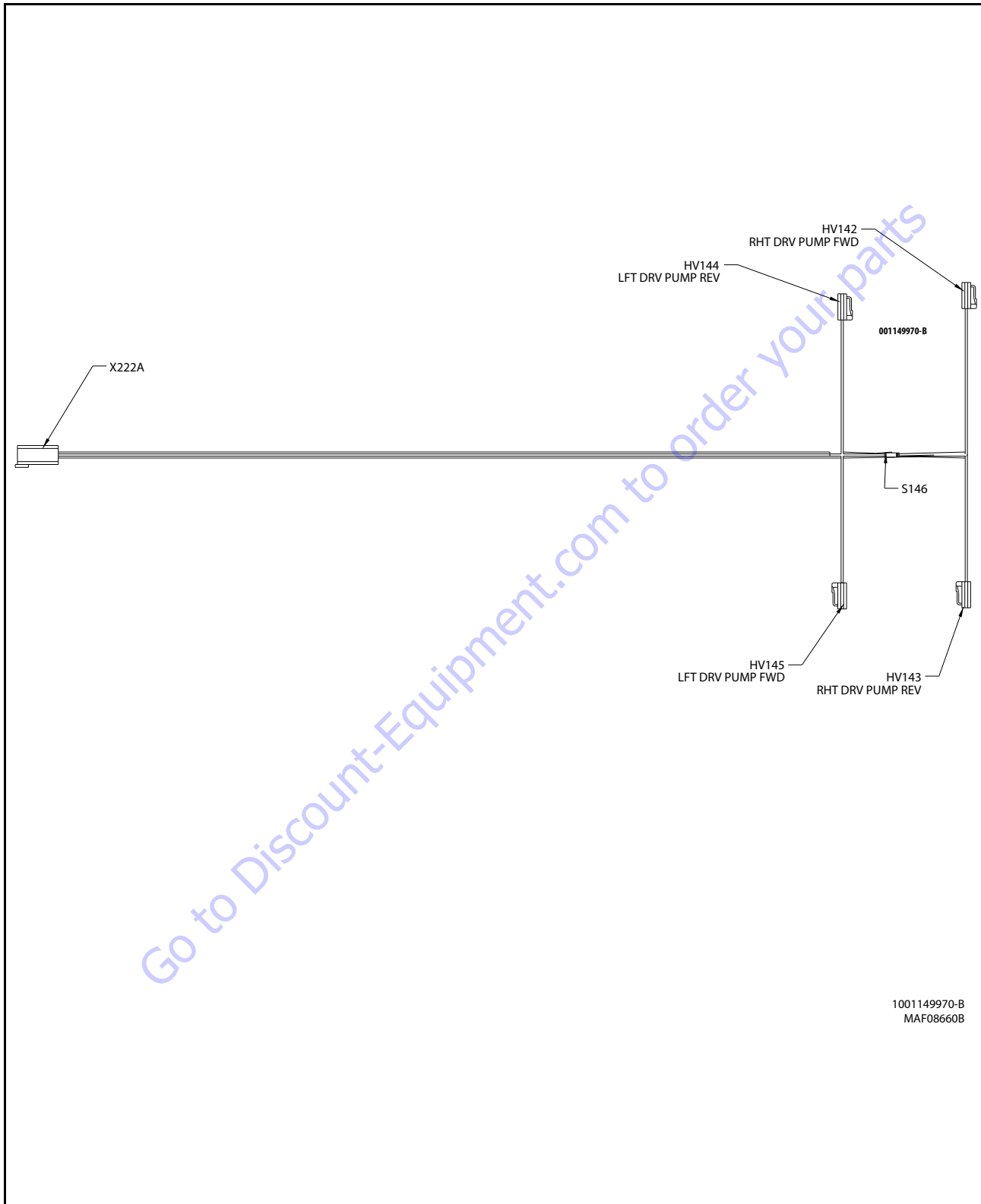


Figure 7-46. Drive Pump Harness

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

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

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

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

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

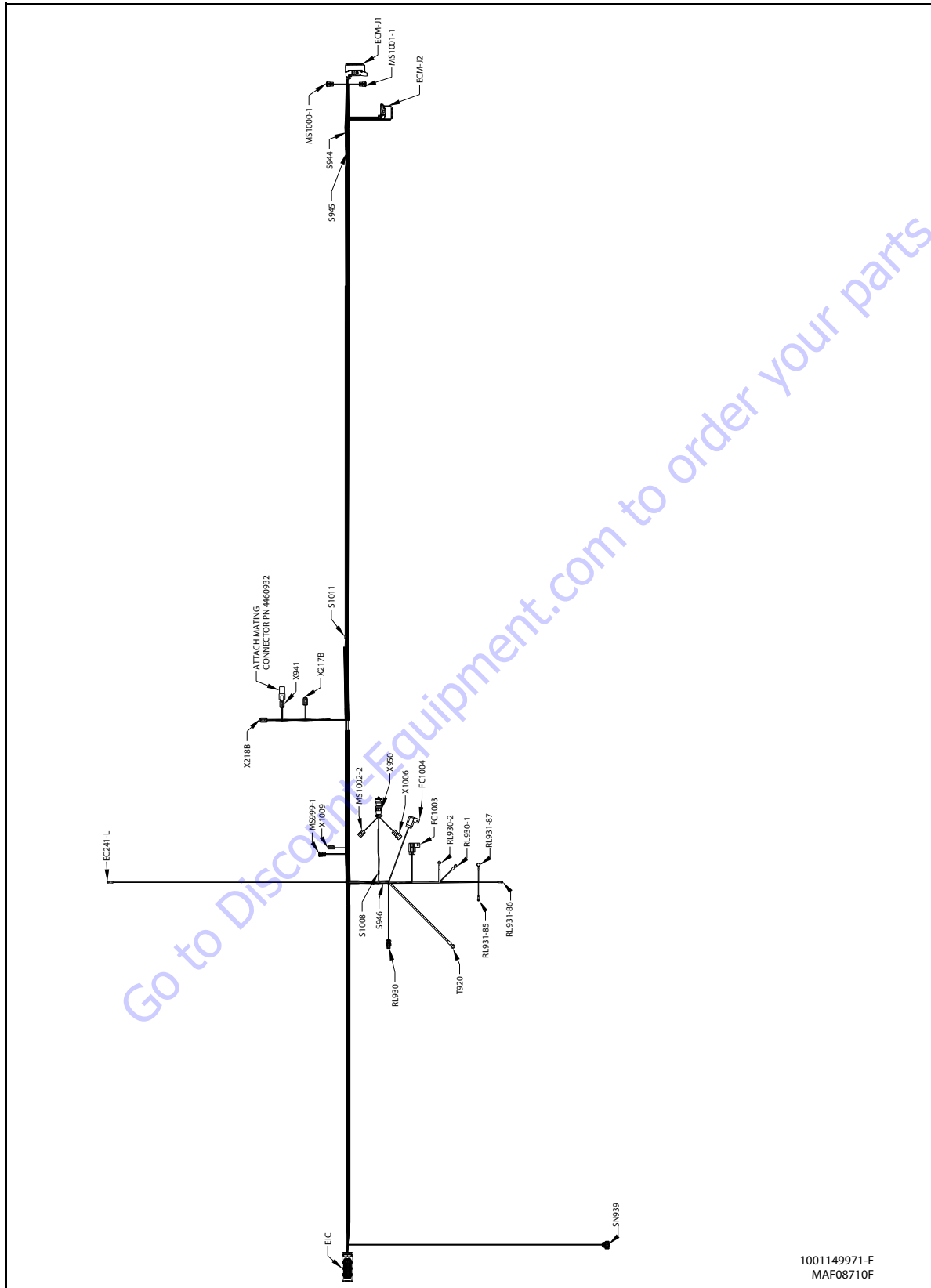


Figure 7-47. T4i Engine Harness

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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38	BLK	148-38 THROTTLE FLAP 4	0.75 mm ²	FLRYW	EIC (52)
39					
40					
41					
42					
43					
44	BLK	148-44 E HXAUST GAS RECIRCULATION	0.75 mm ²	FLRYW	EIC (50)
45					
46					
47					
48					
49					
50					
51					
52					
53	GRN	CAN LOW	0.75 mm ²	FLRYW	MS1000-1 (B)
54	YEL	CAN HIGH	0.75 mm ²	FLRYW	MS1001-1 (A)
55					
56	BLK	148-56 AIR INLET TEMP	0.75 mm ²	FLRYW	EIC (34)
57	BLK	148-57 WATER IN FUEL SW RTN	0.75 mm ²	FLRYW	X941 (2)
58					
59					
60					
61	BLK	148-61 F UEL LOW PRESSURE	0.75 mm ²	FLRYW	EIC (17)
62					
63					
64	BLK	148-64 WATER IN FUEL SW	0.75 mm ²	FLRYW	X941 (1)
65					
66					
67					
68	BLK	148-15-68 CLUTCH SWITCH	0.75 mm ²	FLRYW	ECM-J1 (15)
69					
70					
71					
72	BLK	148-72 THROTTLE FLAP 3	0.75 mm ²	FLRYW	EIC (49)
73	BLK	148-71 STRT SIG	0.75 mm ²	FLRYW	EIC (3)

74					
75	YEL	CAN HIGH	0.75 mm ²	FLRYW	MS1000-1 (A)
76	GRN	CAN LOW	0.75 mm ²	FLRYW	MS1001-1 (B)
77					
78					
79					
80					
81					
82	BLK	148-82 E HXAUST GAS RECIRCULATION	0.75 mm ²	FLRYW	EIC (51)
83					
84					
85	BLK	148-85 E HXAUST GAS RECIRCULATION	0.75 mm ²	FLRYW	EIC (46)
86					
87	BLK	148-87 COOLANT LEVEL GND	0.75 mm ²	FLRYW	SN939 (2)
88	BLK	148-88 IGNITION	0.75 mm ²	FLRYW	S946 (2)
89					
90					
91					
92					
93					
94					

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

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

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

48	BLK	248-20 E HXAUST GAS RECIRCULATION	1.5 mm ²	FLRYW	ECM-J2 (20) 49 BLK
49	BLK	148-72 THROTTLE FLAP 3	0.75 mm ²	FLRYW	ECM-J1 (72)
50	BLK	148-44 E HXAUST GAS RECIRCULATION	0.75 mm ²	FLRYW	ECM-J1 (44)
51	BLK	148-82 E HXAUST GAS RECIRCULATION	0.75 mm ²	FLRYW	ECM-J1 (82)
52	BLK	148-38 THROTTLE FLAP 4	0.75 mm ²	FLRYW	ECM-J1 (38)
53					
54					
55					
56					
57					
58					
59					
60					
61	BLK	248-2 INJECTOR 3	1.5 mm ²	FLRYW	ECM-J2 (2)
62	BLK	248-33 INJECTOR 1	1.5 mm ²	FLRYW	ECM-J2 (33)

ECM-J2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2	BLK	248-2 INJECTOR 3	1.5 mm ²	FLRYW	EIC (61)
3	BLK	248-3 INJECTOR 2	1.5 mm ²	FLRYW	EIC (41)
4	BLK	248-4M PROP ACTUATOR	1.5 mm ²	FLRYW	EIC (19)
5	BLK	248-5M PROP ACTUATOR	1.5 mm ²	FLRYW	EIC (20)
6					
7	BLK	248-7 RAIL PRESSURE FUEL	0.75 mm ²	FLRYW	EIC (32)
8					
9					
10					
11					
12					
13					
14					
15					
16	BLK	248-16 INJECTOR 1	1.5 mm ²	FLRYW	EIC (35)
17					
18	BLK	248-18 INJECTOR 4	1.5 mm ²	FLRYW	EIC (37)

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

19	BLK	248-19 E HXAUST GAS RECIRCULATION	1.5 mm ²	FLRYW	EIC (47)
20	BLK	248-20 E HXAUST GAS RECIRCULATION	1.5 mm ²	FLRYW	EIC (48)
21					
22					
23	BLK	248-23 GLOW SENSE	0.75 mm ²	FLRYW	FC1003 (1)
24	BLK	248-24 BOOST PRESSURE / TEMP	0.75 mm ²	FLRYW	EIC (22)
25	BLK	248-25 RAIL PRESSURE FUEL	0.75 mm ²	FLRYW	EIC (31)
26	BLK	248-26 RAIL PRESSURE FUEL	0.75 mm ²	FLRYW	EIC (25)
27	BLK	248-27 BOOST PRESSURE / TEMP	0.75 mm ²	FLRYW	EIC (29)
28	BLK	248-28C OOLING TEMPERATURE	0.75 mm ²	FLRYW	EIC (24)
29	BLK	248-29 OIL PRESSURE	0.75 mm ²	FLRYW	EIC (27)
30					
31					
32	BLK	248-32 INJECTOR 3	1.5 mm ²	FLRYW	EIC (38)
33	BLK	248-33 INJECTOR 1	1.5 mm ²	FLRYW	EIC (62)
34					
35	BLK	248-35G LOW RELAY CONTROL GND	0.75 mm ²	FLRYW	RL931-85 (1)
36					
37	BLK	248-37E NGINE SPEED CAMSHAFT	0.75 mm ²	FLRYW	EIC (14)
38	SHLD	248-38E NGINE SPEED CRANKSHAFT	0.75 mm ²	FLRYW	EIC (1)
39	BLK	248-39E NGINE SPEED CRANKSHAFT	0.75 mm ²	FLRYW	EIC (15)
40	BLK	248-40 AIR INLET TEMP	0.75 mm ²	FLRYW	EIC (28)
41					
42					
43	BLK	248-43 OIL PRESSURE	0.75 mm ²	FLRYW	EIC (23)
44	BLK	248-44 OIL PRESSURE	0.75 mm ²	FLRYW	EIC (26)
45					
46	BLK	248-46 INJECTOR 2	1.5 mm ²	FLRYW	EIC (40)
47					
48	BLK	248-48 INJECTOR 4	1.5 mm ²	FLRYW	EIC (42)
49					
50					
51					

52	BLK	248-52E NGINE SPEED CAMSHAFT	0.75 mm ²	FLRYW	EIC (13)
53	SHLD	248-53E NGINE SPEED CAMSHAFT	0.75 mm ²	SHLD	EIC (9)
54	BLK	248-54E NGINE SPEED CRANKSHAFT	0.75 mm ²	FLRYW	EIC (21)
55					
56					
57					
58					
59					
60					

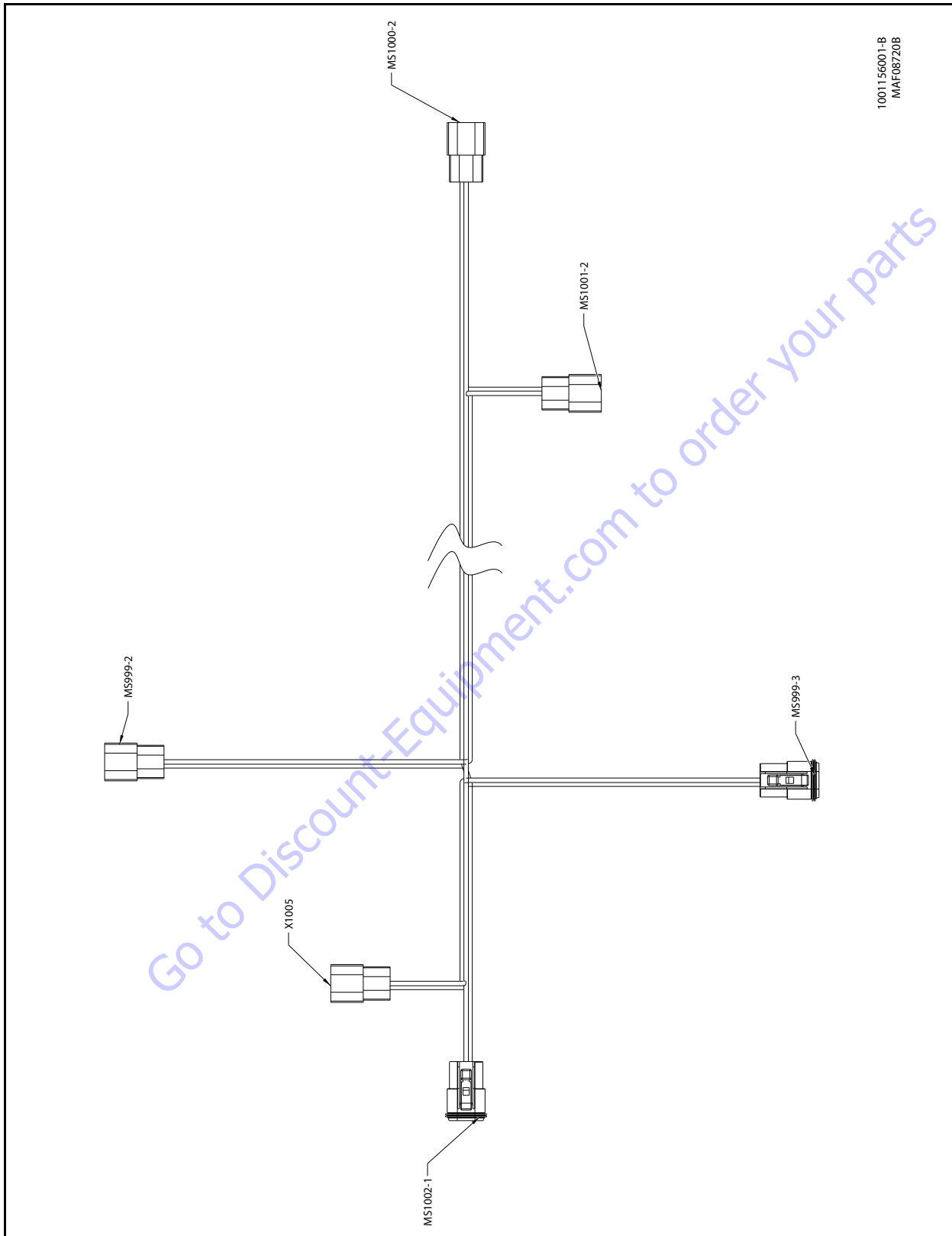


Figure 7-48. CAN Engine Harness - Sheet 1 of 2

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

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

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

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

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

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

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

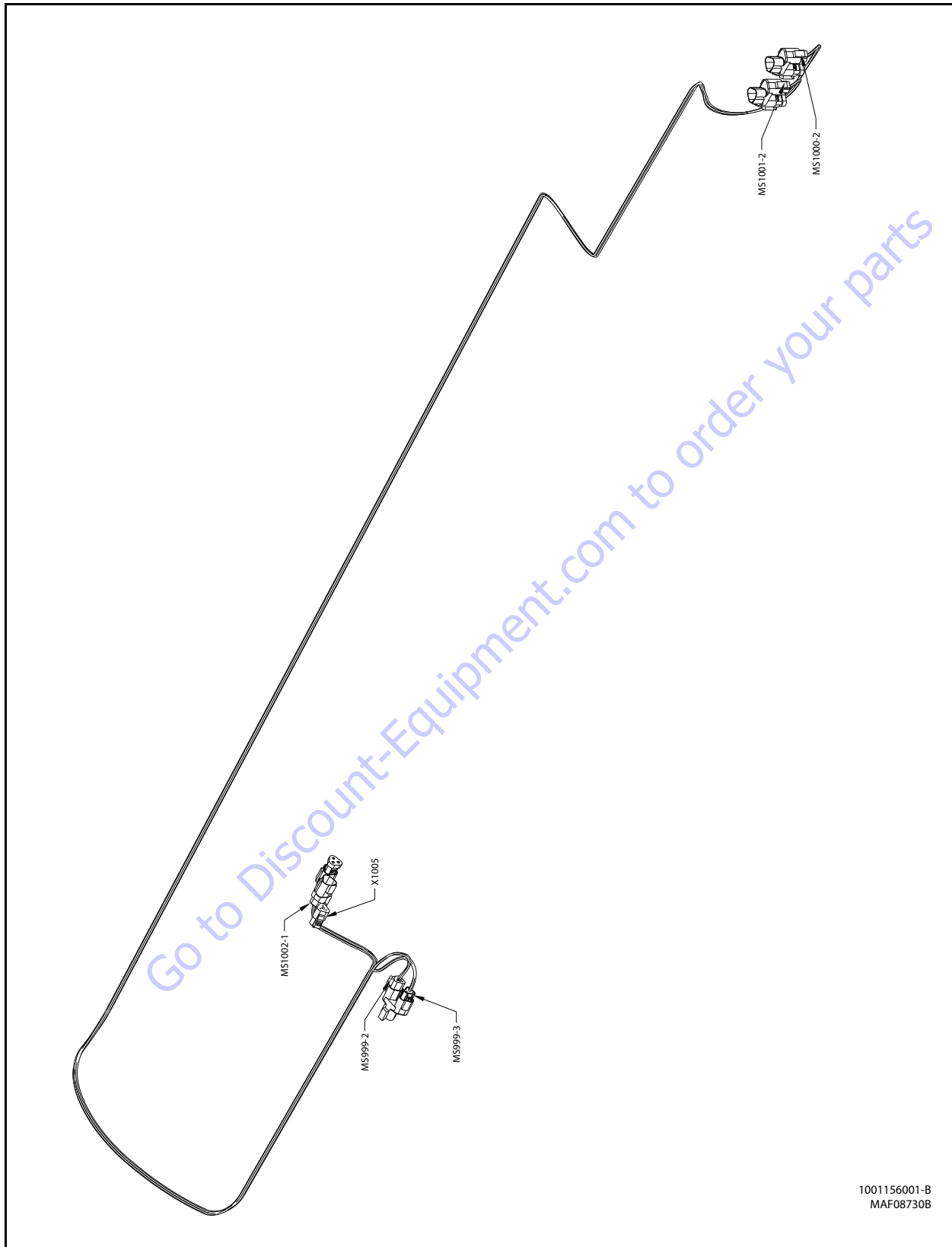


Figure 7-49. CAN Engine Harness - Sheet 2 of 2

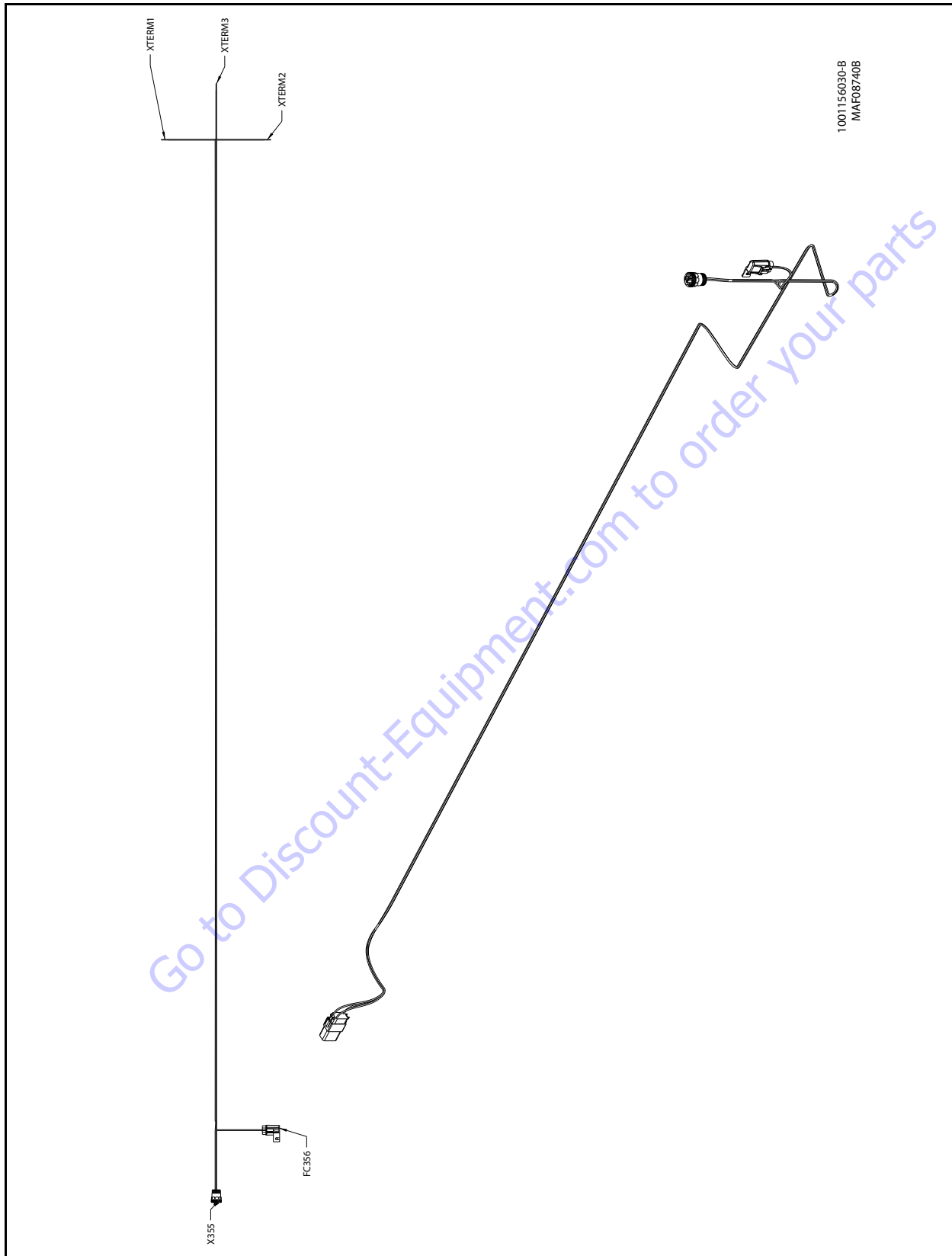


Figure 7-50. Generator Enable Harness

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

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

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

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

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

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

Go to Discount-Equipment.com to order your parts

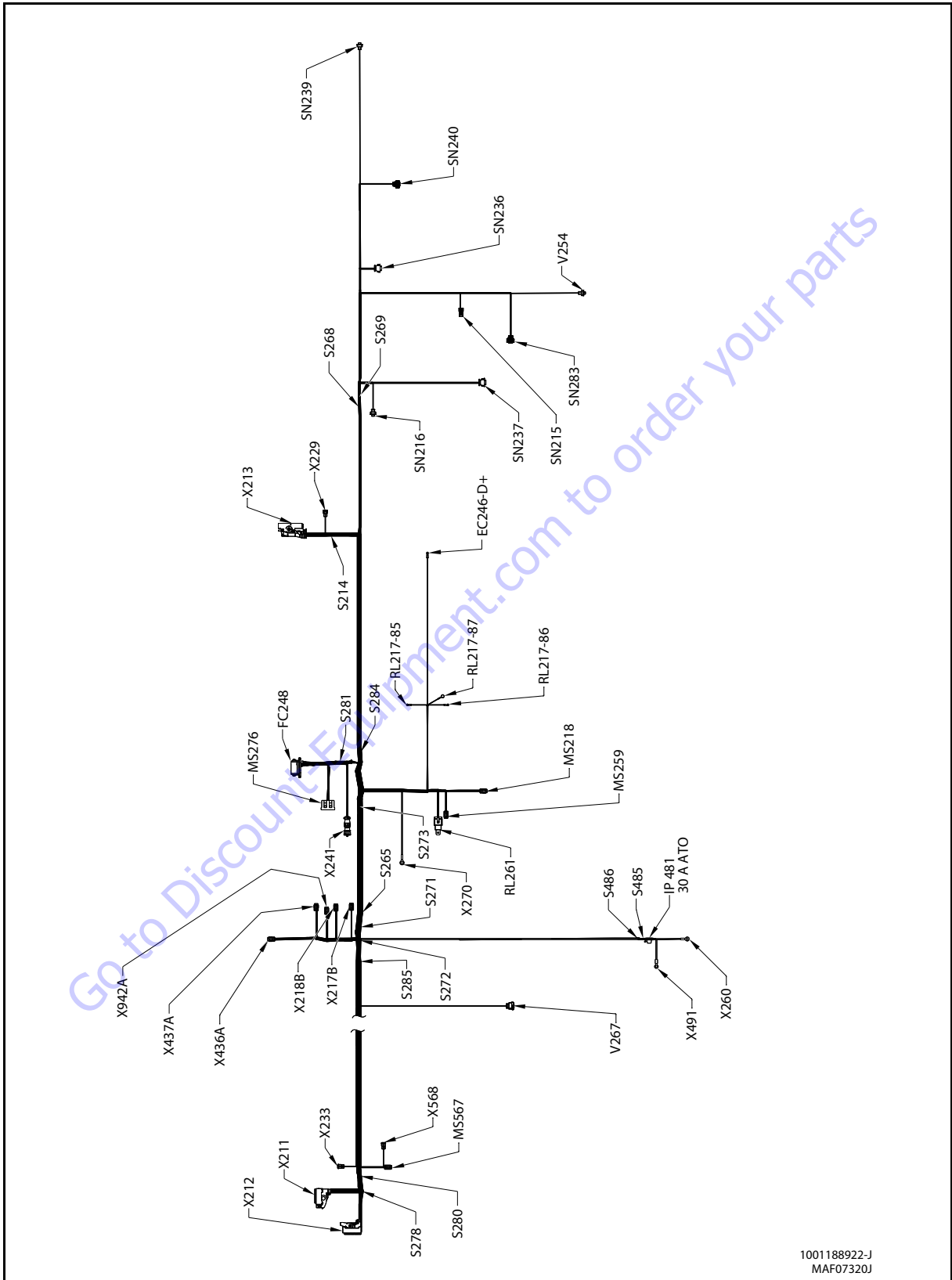
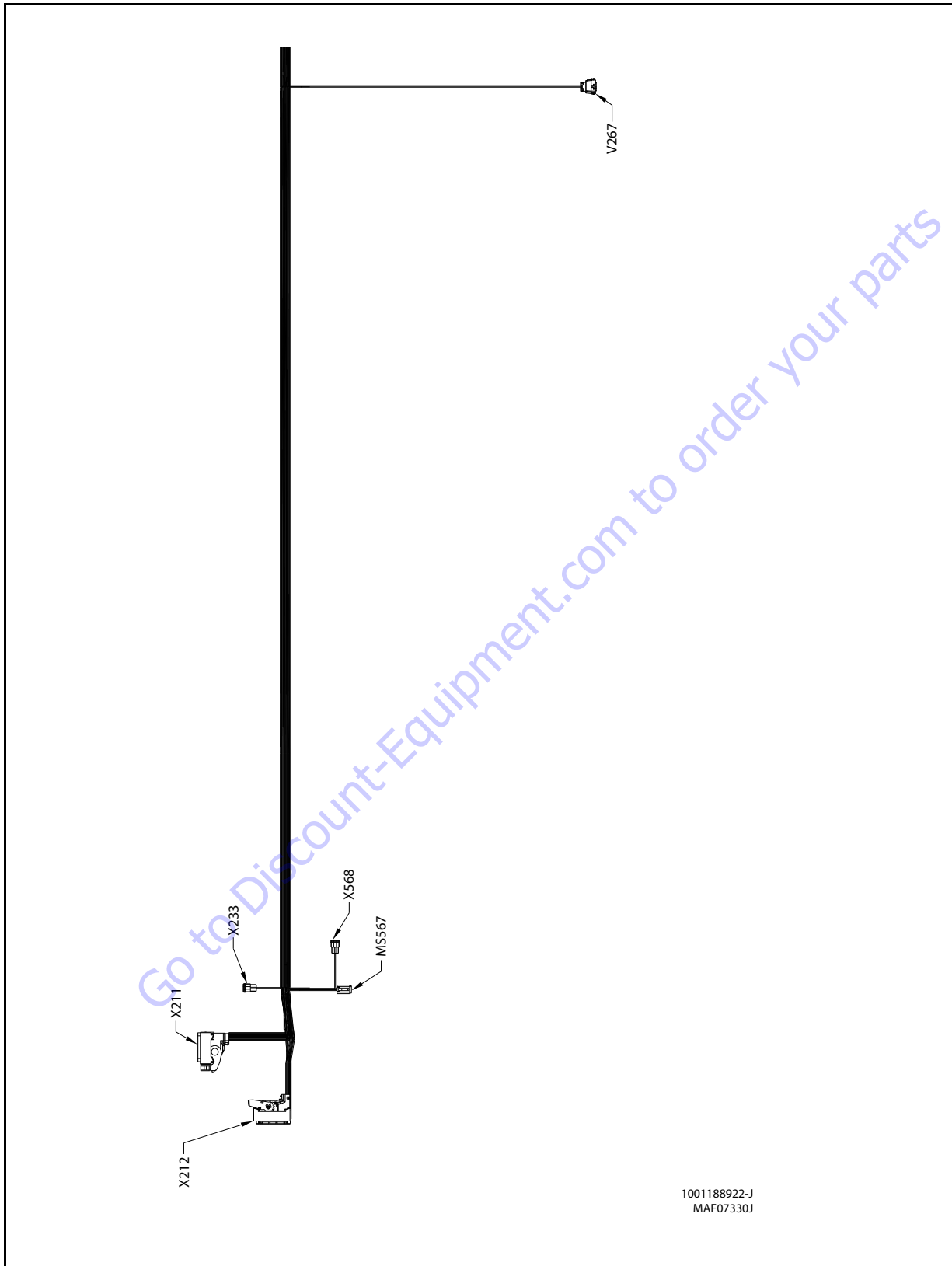


Figure 7-51. T4F Engine Harness - Sheet 1 of 14



1001188922-J
MAF07330J

Figure 7-52. T4F Engine Harness - Sheet 2 of 14

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	2.5 mm ²	FLRYW	S280 (2)
2	BLK	0-60-10-1	2.5 mm ²	FLRYW	S278 (2)
3	RED	1-20-2	2.5 mm ²	FLRYW	S280 (2)
4	BLK	0-60-10-2	2.5 mm ²	FLRYW	S278 (2)
5	RED	1-20-3	2.5 mm ²	FLRYW	S280 (2)
6	BLK	0-60-10-3	2.5 mm ²	FLRYW	S278 (2)
7					
8					
9					
10	WHT	73-2 A TEMP SNSR	0.75 mm ²	FLRYW	SN239 (1)
11					
12					
13	WHT	77-3 DPF PRS SIG	0.75 mm ²	FLRYW	SN283 (3)
14					
15					
16					
17					
18	WHT	77-1 DPF PRS PWR	0.75 mm ²	FLRYW	SN283 (1)
19					
20					
21					
22					
23	WHT	48-95 FUL RLY 86	0.75 mm ²	FLRYW	RL261 (5)
24					
25					
26	WHT	148-57 WTR/FUL RTN	0.75 mm ²	FLRYW	X942A (2)
27					
28					
29					
30					
31	WHT	77-2 DPF PRS RTN	0.75 mm ²	FLRYW	SN283 (2)
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43	WHT	148-15 CLUTCH SW	0.75 mm ²	FLRYW	X212 (91)
44					
45					
46					
47					
48					
49					
50	WHT	73-1 A TEMP SNSR	0.75 mm ²	FLRYW	SN239 (2)
51					
52					
53					
54					
55					
56					
57	WHT	72-1 COOL LVL PWR	0.75 mm ²	FLRYW	SN240 (1)
58					
59					
60					
61					
62	WHT	72-2 COOL LVL SIG	0.75 mm ²	FLRYW	SN240 (3)
63					
64	WHT	148-35-3 STRT REQ	0.75 mm ²	FLRYW	S285 (1)
65					
66					
67	YEL	2-99-2	1 mm ²	FLRYW	S272 (1)
68					
69					
70	WHT	148-64 WTR/FUL SW	0.75 mm ²	FLRYW	X942A (1)
71					
72					
73					
74	WHT	48-94 FUL RLY 85	0.75 mm ²	FLRYW	RL261 (2)
75					
76					
77					
78					
79					
80					

81	WHT	72-3 COOL LVL GND	0.75 mm ²	FLRYW	SN240 (2)
82	GRN	CN LCH 2	0.75 mm ²	FLRYW	X241 (H)
83	YEL	CN H CH 2	0.75 mm ²	FLRYW	X241 (G)
84					
85	YEL	CN H CH 2	0.75 mm ²	FLRYW	M5567 (1)
86	GRN	CN L CH 2	0.75 mm ²	FLRYW	M5567 (3)
87					
88					
89					
90					
91					

X211 - DEUTZ D2.1					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1					
2	WHT	2-47 EXH GAS REC	1.5 mm ²	FLRYW	X213 (47)
3	WHT	3-5265 CNTRL PWR	1.5 mm ²	FLRYW	S265 (1)
4	WHT	259 RLY PWR	0.75 mm ²	FLRYW	MS259 (5)
5	WHT	5-X253 PURG VLV	0.75 mm ²	FLRYW	X437A (11)
6					
7	WHT	7-52 INTAKE THR L	0.75 mm ²	FLRYW	X213 (52)
8	WHT	8-7 EGR TEMP	0.75 mm ²	FLRYW	X213 (7)
9	WHT	9-SN216 EXH GAS TEMP	0.75 mm ²	FLRYW	SN216 (2)
10					
11	WHT	11-29 BST PRS TEMP	0.75 mm ²	FLRYW	X213 (29)
12					
13	WHT	13-24 COOL TEMP	0.75 mm ²	FLRYW	X213 (24)
14					
15	WHT	15-SN215 EXH TEMP	0.75 mm ²	FLRYW	SN215 (2)
16					
17	WHT	17-32 RAIL PRS FUL	0.75 mm ²	FLRYW	X213 (32)
18	WHT	18-50 5V	0.75 mm ²	FLRYW	X213 (50)
19	WHT	19-X253 UREA PRS	0.75 mm ²	FLRYW	X437A (5)
20					
21	WHT	21-22 PRS RTN	0.75 mm ²	FLRYW	X213 (22)
22					
23	WHT	23-61 INUCTR RTN	1.5 mm ²	FLRYW	X213 (61)
24	WHT	24-41 INUCTR RTN	1.5 mm ²	FLRYW	X213 (41)
25	WHT	25-20 MPROP	1.5 mm ²	FLRYW	X213 (20)
26	WHT	26-X254 DOSE VLV	0.75 mm ²	FLRYW	V254 (1)
27	WHT	27-SN216 EXH GAS TEMP	0.75 mm ²	FLRYW	SN216 (1)
28					
29					
30					
31					
32					
33					
34					
35	WHT	35-27 TEMP/PRS RTN	0.75 mm ²	FLRYW	X213 (27)
36	WHT	36-31 RAIL PRS FUL	0.75 mm ²	FLRYW	X213 (31)
37	WHT	103-2 THRLE HTR	0.75 mm ²	FLRYW	FC248 (B6)
38	WHT	38-49 INTAKE THR L	0.75 mm ²	FLRYW	X213 (49)
39					
40					
41	WHT	41-FC248 RLY GND	0.75 mm ²	FLRYW	FC248 (D9)
42					
43					
44	WHT	44-38 INUCTR	1.5 mm ²	FLRYW	X213 (38)
45	WHT	45-40 INUCTR	1.5 mm ²	FLRYW	X213 (40)
46	WHT	46-19 MPROP RTN	1.5 mm ²	FLRYW	X213 (19)
47	WHT	47-X254 DOSE VLV	0.75 mm ²	FLRYW	V254 (2)
48	WHT	48-SN215 EXH TEMP	0.75 mm ²	FLRYW	SN215 (1)
49					
50					
51	WHT	51-6 DELTA VNTRI	0.75 mm ²	FLRYW	X213 (6)
52					
53					
54	WHT	54-17 FUL LOW PRS	0.75 mm ²	FLRYW	X213 (17)
55	WHT	55-46 E GAS REC SIG	0.75 mm ²	FLRYW	X213 (46)
56					
57	WHT	57-X253 UREA PRS	0.75 mm ²	FLRYW	X437A (6)
58	WHT	58-RL217 GLOW RLY SIG	0.75 mm ²	FLRYW	RL217-87 (1)
59	WHT	59-X253 UREA PUMP	0.75 mm ²	FLRYW	X437A (10)
60					
61	WHT	104-1 PRS HTR	0.75 mm ²	FLRYW	FC248 (B8)
62	WHT	101-2 SUP MOD	0.75 mm ²	FLRYW	FC248 (B2)
63	WHT	63-RL217 GLOW RLY	0.75 mm ²	FLRYW	RL217-85 (1)
64	WHT	64-35 INUCTR RTN	1.5 mm ²	FLRYW	X213 (35)
65					
66	WHT	66-37 INUCTR RTN	1.5 mm ²	FLRYW	X213 (37)
67	WHT	67-48 EXH GAS REC	1.5 mm ²	FLRYW	X213 (48)
68					

Figure 7-53. T4F Engine Harness - Sheet 3 of 14

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

69					
70	WHT	70-X253 UREA PRS	0.75 mm ²	FLRYW	X437A (7)
71					
72	WHT	72-26 OIL PRS	0.75 mm ²	FLRYW	X213 (26)
73	WHT	73-23 BST PRS TEMP	0.75 mm ²	FLRYW	X213 (23)
74	WHT	74-28 BST PRS TEMP	0.75 mm ²	FLRYW	X213 (28)
75	WHT	75-S214 SHLD RTN	0.75 mm ²	FLRYW	S214 (1)
76	WHT	76-51 GND RTN	0.75 mm ²	FLRYW	X213 (51)
77	YEL	CNH (DEUTZ)	0.75 mm ²	FLRYW	MS218 (6)
78	WHT	78-25 RAIL PRS FUL	0.75 mm ²	FLRYW	X213 (25)
79					
80	WHT	102-1 STION HTR	0.75 mm ²	FLRYW	FC248 (B4)
81					
82	WHT	82-X253 PURG VLV	0.75 mm ²	FLRYW	X437A (12)
83					
84					
85	WHT	85-62 INJCTR	1.5 mm ²	FLRYW	X213 (62)
86					
87	WHT	87-42 INJCTR	1.5 mm ²	FLRYW	X213 (42)
88	WHT	88-RL217 GLOW RLY RTN	0.75 mm ²	FLRYW	RL217-86 (1)
89	WHT	89-X253 UREA PUMP	0.75 mm ²	FLRYW	X437A (9)
90					
91					
92	WHT	92-X267 UREA HEAT VLV	0.75 mm ²	FLRYW	V267 (1)
93					
94	WHT	94-3 STRT RTN	0.75 mm ²	FLRYW	X213 (3)
95	WHT	95-2 STRT SIG	0.75 mm ²	FLRYW	X213 (2)
96					
97					
98	GRN	CN L (DEUTZ)	0.75 mm ²	FLRYW	MS218 (10)
99	BLK	99-13 CAM ENG SPD	0.75 mm ²	FLRYW	X213 (13)
100	WHT	100-14 CAM ENG SPD	0.75 mm ²	FLRYW	X213 (14)
101	BLK	101-21 CRK ENG SPD	0.75 mm ²	FLRYW	X213 (21)
102	WHT	102-15 CRK ENG SPD	0.75 mm ²	FLRYW	X213 (15)
103					
104					
105					

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

V267 - UREA TANK HTR VLV					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	92-X267 UREA HEAT VLV	0.75 mm ²	FLRYW	X211 (92)
2					
3					
4	YEL	2-60-2	0.75 mm ²	FLRYW	S271 (1)

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

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

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

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

Figure 7-54. T4F Engine Harness - Sheet 4 of 14

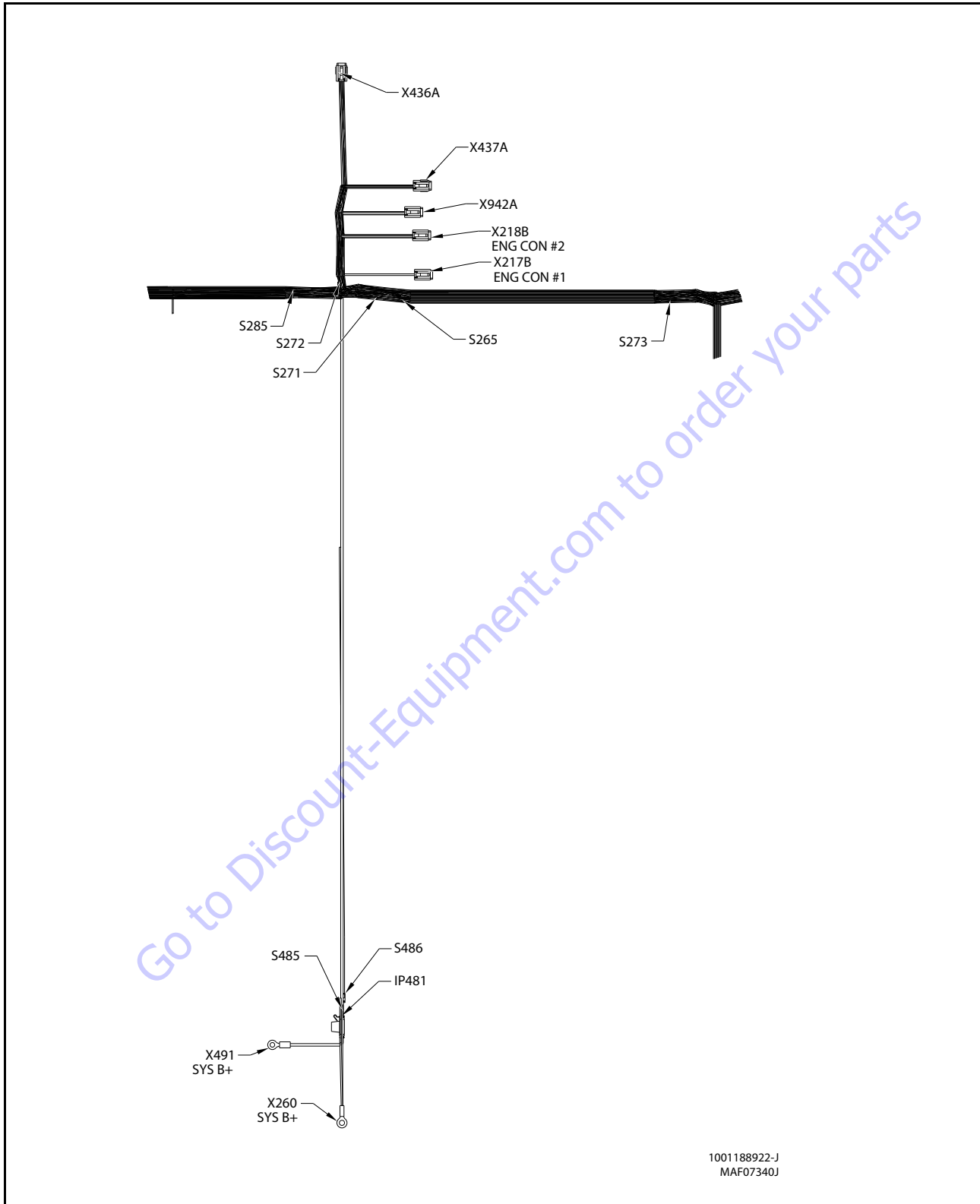


Figure 7-55. T4F Engine Harness - Sheet 5 of 14

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

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)

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

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

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

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

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

X218B ENG CON #2					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	YEL	2-100	2 mm ²	FLRYW	S273 (2)
2	WHT	148-35-2 STRT REQ	0.75 mm ²	FLRYW	S285 (2)
3	YEL	CN H CH 2	0.75 mm ²	FLRYW	MSS67 (8)
4	GRN	CN L CH 2	0.75 mm ²	FLRYW	MSS67 (6)
5	WHT	47-6-1 ALT EXC	1 mm ²	FLRYW	EC246-D+ (1)
6					

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

X437A TO UREA TANK HARNESS					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	WHT	105-1 CNTRL PWR	1.5 mm ²	FLRYW	S265 (1)
2					
3	WHT	101-1 HTR1	0.75 mm ²	FLRYW	FC248 (D2)
4					
5	WHT	19-X253 UREA PRS	0.75 mm ²	FLRYW	X211 (19)
6	WHT	57-X253 UREA PRS	0.75 mm ²	FLRYW	X211 (57)
7	WHT	70-X253 UREA PRS	0.75 mm ²	FLRYW	X211 (70)
8	YEL	2-60-1	1.5 mm ²	FLRYW	S271 (1)
9	WHT	89-X253 UREA PUMP	0.75 mm ²	FLRYW	X211 (89)
10	WHT	59-X253 UREA PUMP	0.75 mm ²	FLRYW	X211 (59)
11	WHT	5-X253 PURG VLV	0.75 mm ²	FLRYW	X211 (5)
12	WHT	82-X253 PURG VLV	0.75 mm ²	FLRYW	X211 (82)

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

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

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

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

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

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

Figure 7-56. T4F Engine Harness - Sheet 6 of 14

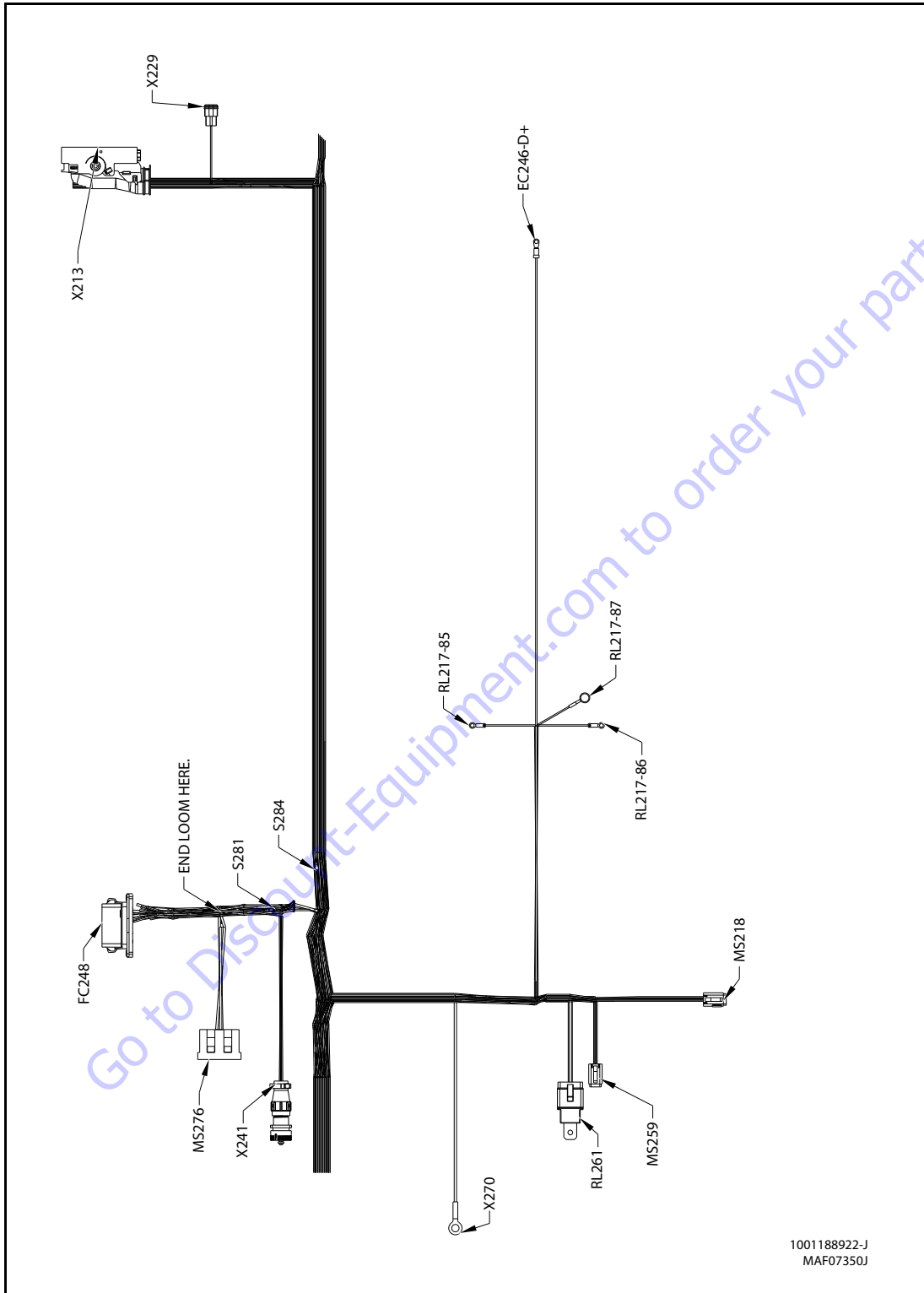


Figure 7-57. T4F Engine Harness - Sheet 7 of 14

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

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

RL261 FUL PUMP RLY					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	RED	1-31	3 mm ²	FLRYW	FC248 (AA2)
2	WHT	48-94 FUL RLY 85	0.75 mm ²	FLRYW	X212 (74)
3					
4	WHT	48-96 FUEL PUMP	3 mm ²	FLRYW	X942A (3)
5	WHT	48-95 FUL RLY 86	0.75 mm ²	FLRYW	X212 (23)

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

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

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

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

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

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

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

X213 ENGINE CONNECTION					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
1	SHLD	S214-1	0.75 mm ²	SHLD	S214 (2)
2	WHT	95-2 STRT SIG	0.75 mm ²	FLRYW	X211 (95)
3	WHT	94-3 STRT RTN	0.75 mm ²	FLRYW	X211 (94)
4					
5					
6	WHT	51-6 DELTA VNTRI	0.75 mm ²	FLRYW	X211 (51)
7	WHT	8-7 EGR TEMP	0.75 mm ²	FLRYW	X211 (8)
8					
9	SHLD	S214-9	0.75 mm ²	SHLD	S214 (2)
10					
11					
12					
13	BLK	99-13 CAM ENG SPD	0.75 mm ²	FLRYW	X211 (99)
14	WHT	100-14 CAM ENG SPD	0.75 mm ²	FLRYW	X211 (100)
15	WHT	102-15 CRK ENG SPD	0.75 mm ²	FLRYW	X211 (102)
16					
17	WHT	54-17 FUL LOW PRS	0.75 mm ²	FLRYW	X211 (54)
18					
19	WHT	46-19 MPROP RTN	1.5 mm ²	FLRYW	X211 (46)
20	WHT	25-20 MPROP	1.5 mm ²	FLRYW	X211 (25)
21	BLK	101-21 CRK ENG SPD	0.75 mm ²	FLRYW	X211 (101)
22	WHT	21-22 PRS RTN	0.75 mm ²	FLRYW	X211 (21)
23	WHT	73-23 BST PRS TEMP	0.75 mm ²	FLRYW	X211 (73)
24	WHT	13-24 COOL TEMP	0.75 mm ²	FLRYW	X211 (13)
25	WHT	78-25 RAIL PRS FUL	0.75 mm ²	FLRYW	X211 (78)
26	WHT	72-26 OIL PRS	0.75 mm ²	FLRYW	X211 (72)
27	WHT	35-27 TEMP/PRS RTN	0.75 mm ²	FLRYW	X211 (35)
28	WHT	74-28 BST PRS TEMP	0.75 mm ²	FLRYW	X211 (74)
29	WHT	11-29 BST PRS TEMP	0.75 mm ²	FLRYW	X211 (11)
30					
31	WHT	36-31 RAIL PRS FUL	0.75 mm ²	FLRYW	X211 (36)
32	WHT	17-32 RAIL PRS FUL	0.75 mm ²	FLRYW	X211 (17)
33					
34					
35	WHT	64-35 INJCTR RTN	1.5 mm ²	FLRYW	X211 (64)
36					
37	WHT	66-37 INJCTR RTN	1.5 mm ²	FLRYW	X211 (66)
38	WHT	44-38 INJCTR	1.5 mm ²	FLRYW	X211 (44)
39					
40	WHT	45-40 INJCTR	1.5 mm ²	FLRYW	X211 (45)
41	WHT	24-41 INJCTR RTN	1.5 mm ²	FLRYW	X211 (24)
42	WHT	87-42 INJCTR	1.5 mm ²	FLRYW	X211 (87)
43					
44					
45					
46	WHT	55-46 E GAS REC SIG	0.75 mm ²	FLRYW	X211 (55)
47	WHT	2-47 EXH GAS REC	1.5 mm ²	FLRYW	X211 (2)
48	WHT	67-48 EXH GAS REC	1.5 mm ²	FLRYW	X211 (67)
49	WHT	38-49 INTAKE THRITLE	0.75 mm ²	FLRYW	X211 (38)
50	WHT	18-50 SV	0.75 mm ²	FLRYW	X211 (18)
51	WHT	76-51 GND RTN	0.75 mm ²	FLRYW	X211 (76)
52	WHT	7-52 INTAKE THRITLE	0.75 mm ²	FLRYW	X211 (7)
53					
54					
55					
56					
57					
58					
59	YEL	2-100-3	1 mm ²	FLRYW	FC248 (A5)
60	BLK	0-60-9-2	1 mm ²	FLRYW	S284 (2)
61	WHT	23-61 INJCTR RTN	1.5 mm ²	FLRYW	X211 (23)
62	WHT	85-62 INJCTR	1.5 mm ²	FLRYW	X211 (85)

Figure 7-58. T4F Engine Harness - Sheet 8 of 14

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

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

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

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Figure 7-59. T4F Engine Harness - Sheet 9 of 14

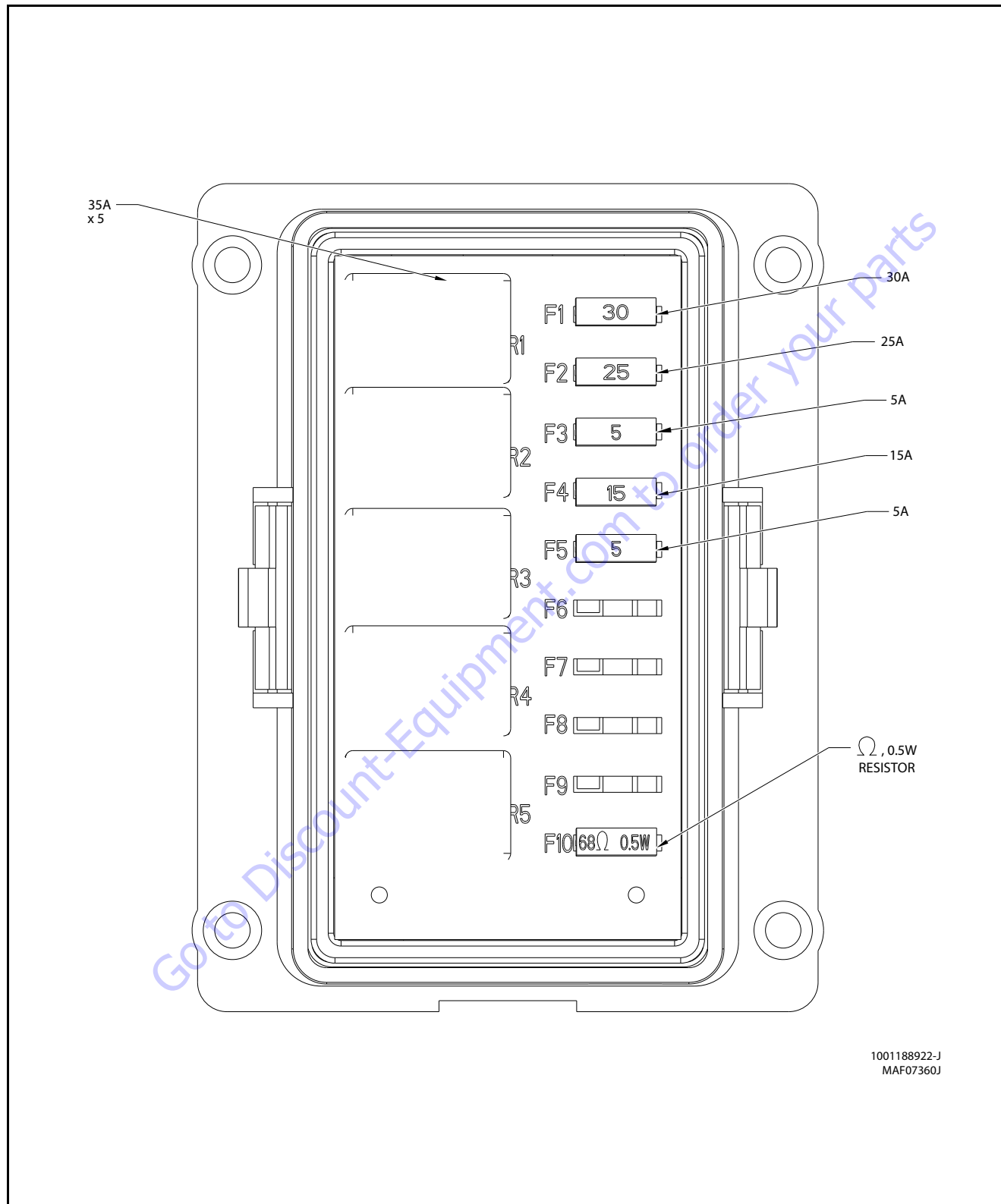


Figure 7-60. T4F Engine Harness - Sheet 10 of 14

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

FC248 RLY/FUSE PANEL					
CONN POS	WIRE COLOR	WIRE LABEL	GAUGE	JACKET	TO
A1	RED	1-30	3 mm ²	FLRYW	FC248 (B9)
A10	BLK	0-60-7-1	0.75 mm ²	FLRYW	S281 (1)
A2	RED	1-31-1	3 mm ²	FLRYW	S486 (1)
A3	YEL	2-100-1	1 mm ²	FLRYW	X436A (9)
A4	YEL	2-100-2	1 mm ²	FLRYW	S268 (2)
A5	YEL	2-100-3	1 mm ²	FLRYW	X213 (59)
A6					
A7					
A8					
A9					
AA1	RED	1-30-1	3 mm ²	FLRYW	S485 (1)
AA10	WHT	148-35-4 STRT REQ	0.75 mm ²	FLRYW	S285 (2)
AA2	RED	1-31	3 mm ²	FLRYW	RL261 (1)
AA3	YEL	2-100-1	1 mm ²	FLRYW	S273 (1)
AA4	YEL	2-100-2	1 mm ²	FLRYW	S273 (1)
AA5	YEL	2-100-3	1 mm ²	FLRYW	S273 (1)
AA6					
AA7					
AA8					
AA9					
B1	BLK	0-60-6	2.5 mm ²	FLRYW	MS276 (6)
B10	WHT	105-2 CNTRL PWR	1.5 mm ²	FLRYW	S265 (2)
B2	WHT	101-2 SUP MOD	0.75 mm ²	FLRYW	X211 (62)
B3	BLK	0-60-5	2.5 mm ²	FLRYW	MS276 (5)
B4	WHT	102-1 STION HTR	0.75 mm ²	FLRYW	X211 (80)
B5	BLK	0-60-4	2.5 mm ²	FLRYW	MS276 (4)
B6	WHT	103-2 THRLE HTR	0.75 mm ²	FLRYW	X211 (37)
B7	BLK	0-60-3	2.5 mm ²	FLRYW	MS276 (3)
B8	WHT	104-1 PRS HTR	0.75 mm ²	FLRYW	X211 (61)
B9	RED	1-30	3 mm ²	FLRYW	FC248 (A1)
C10					
C2					
C4					
C6					
C8					
D1	WHT	259-1 RLY PWR	0.75 mm ²	FLRYW	MS259 (4)
D10	YEL	2-60	3 mm ²	FLRYW	S271 (2)
D2	WHT	101-1 HTR1	0.75 mm ²	FLRYW	X437A (3)
D3	WHT	259-2 RLY PWR	0.75 mm ²	FLRYW	MS259 (3)
D4	WHT	102-2 STION HTR	2.5 mm ²	FLRYW	X436A (7)
D5	WHT	259-3 RLY PWR	0.75 mm ²	FLRYW	MS259 (2)
D6	WHT	103-1 THRLE HTR	2.5 mm ²	FLRYW	X436A (5)
D7	WHT	259-4 RLY PWR	0.75 mm ²	FLRYW	MS259 (1)
D8	WHT	104-2 PRS HTR	2.5 mm ²	FLRYW	X436A (3)
D9	WHT	41-FC248 RLY GND	0.75 mm ²	FLRYW	X211 (41)

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

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

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

Figure 7-61. T4F Engine Harness - Sheet 11 of 14

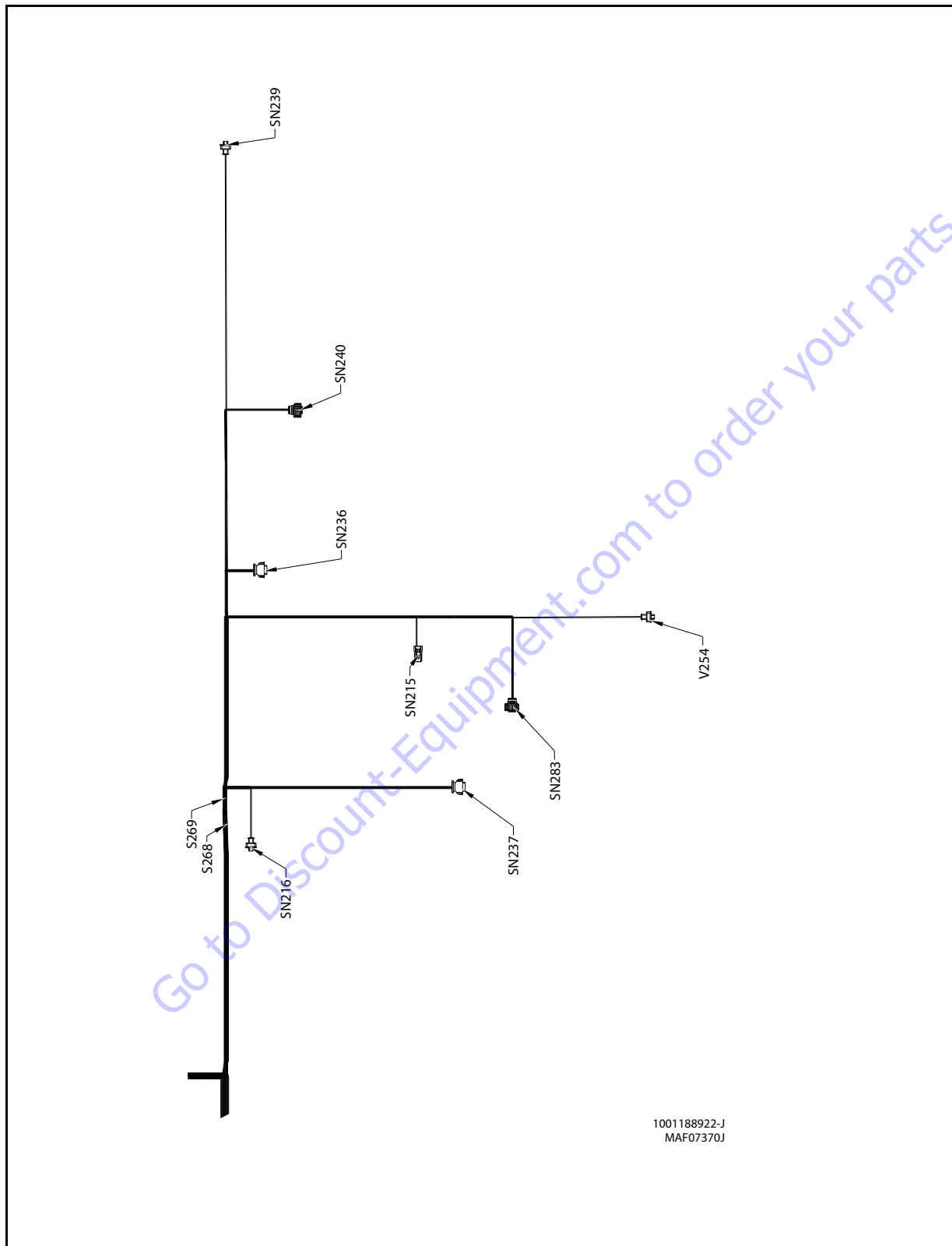


Figure 7-62. T4F Engine Harness - Sheet 12 of 14

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	0.75 mm ²	FLRYW	X211 (27)
2	WHT	9-SN216 EXH GAS TEMP	0.75 mm ²	FLRYW	X211 (9)

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

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

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

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

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

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

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

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

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

Figure 7-63. T4F Engine Harness - Sheet 13 of 14

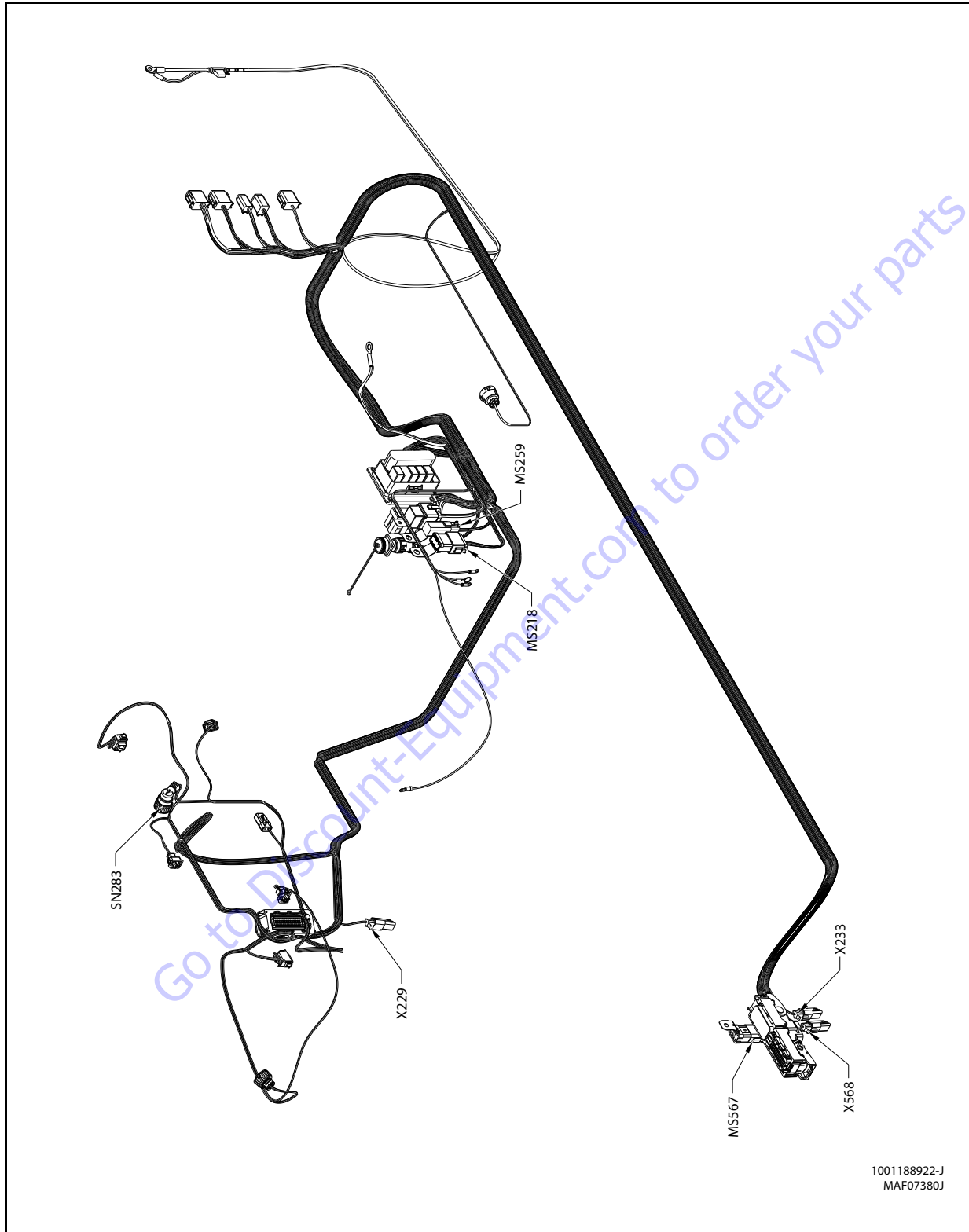


Figure 7-64. T4F Engine Harness - Sheet 14 of 14

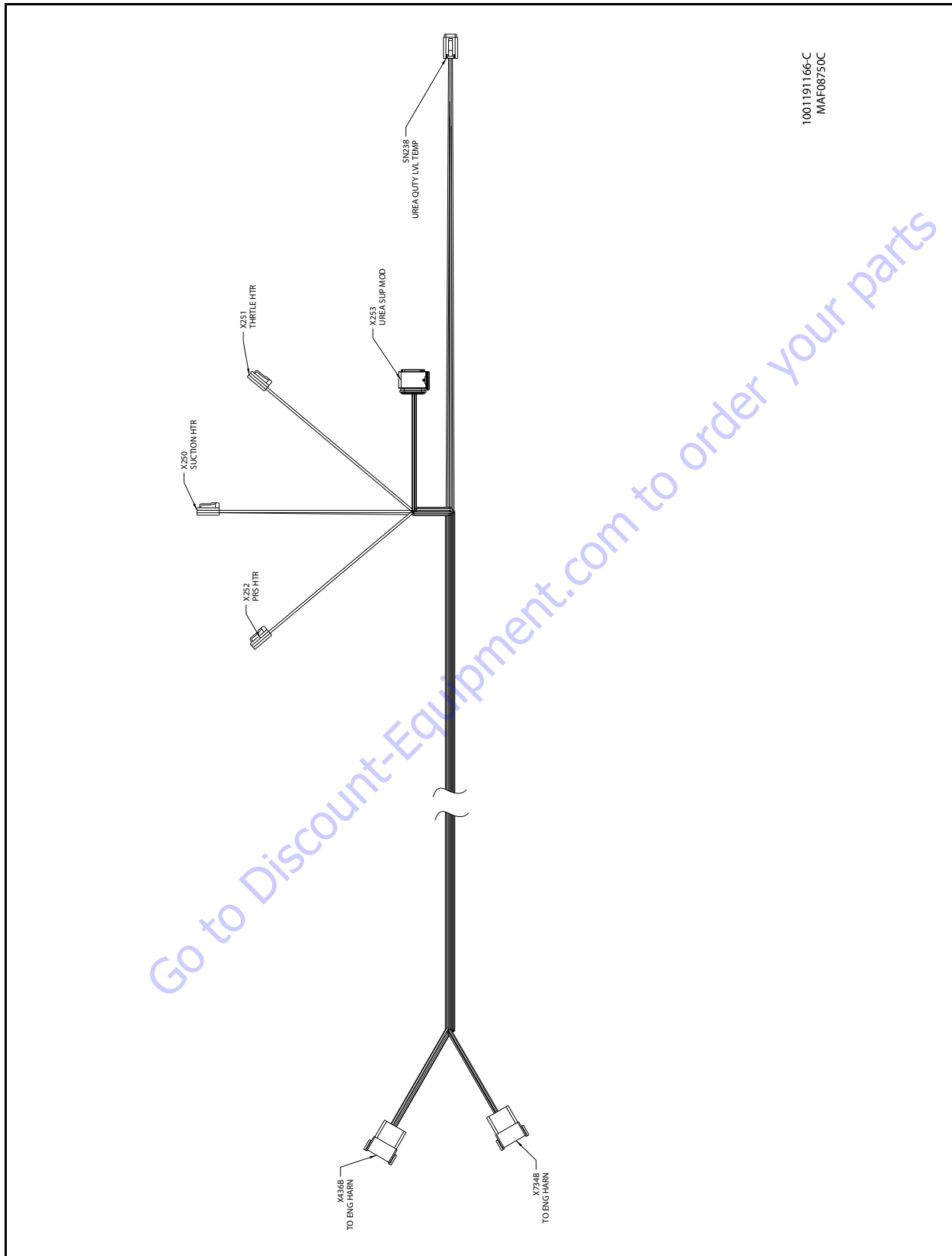


Figure 7-65. Urea Tank/Supply Module Harness

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

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

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

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

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

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

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

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

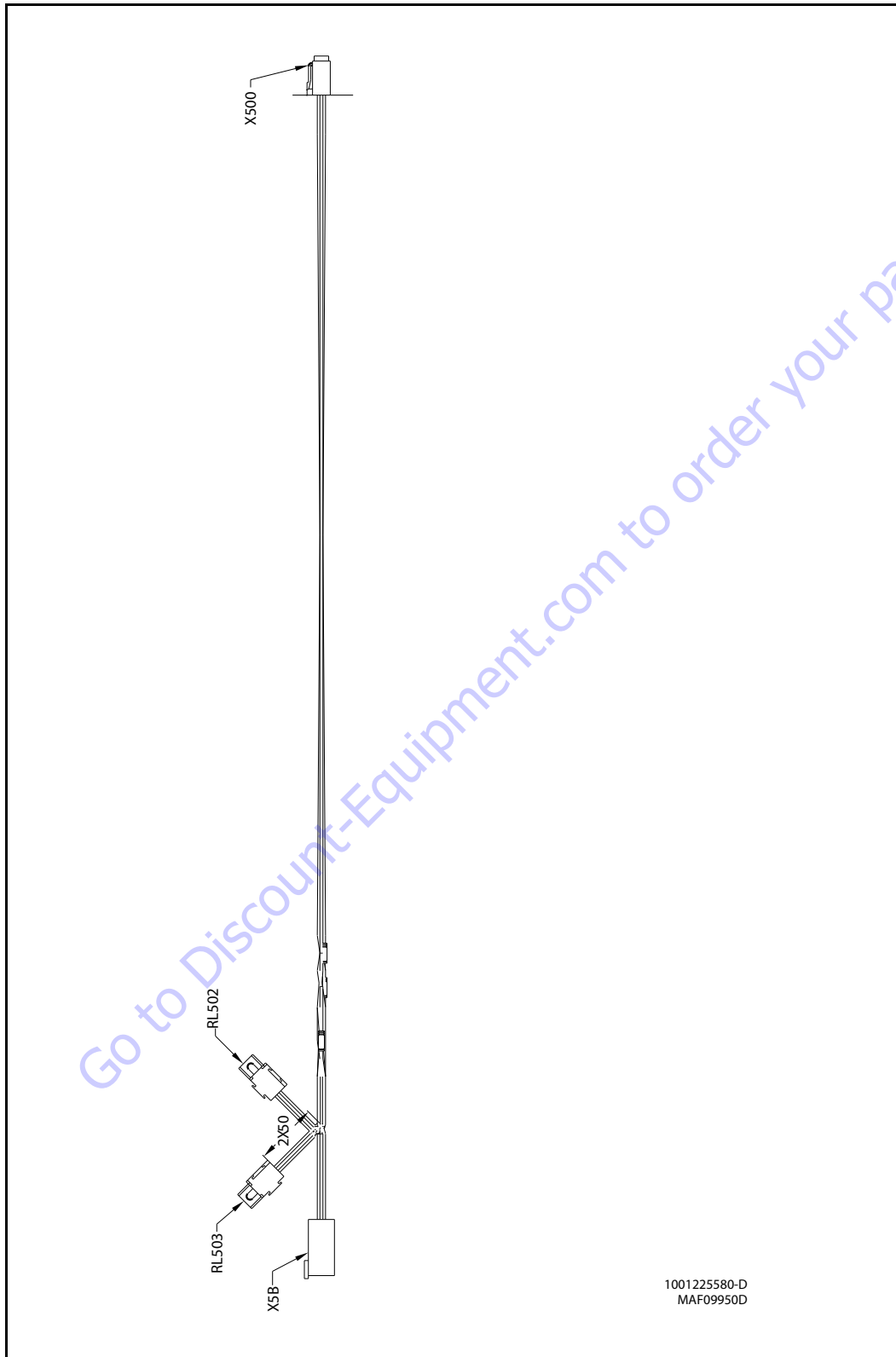


Figure 7-66. Platform Interface Harness

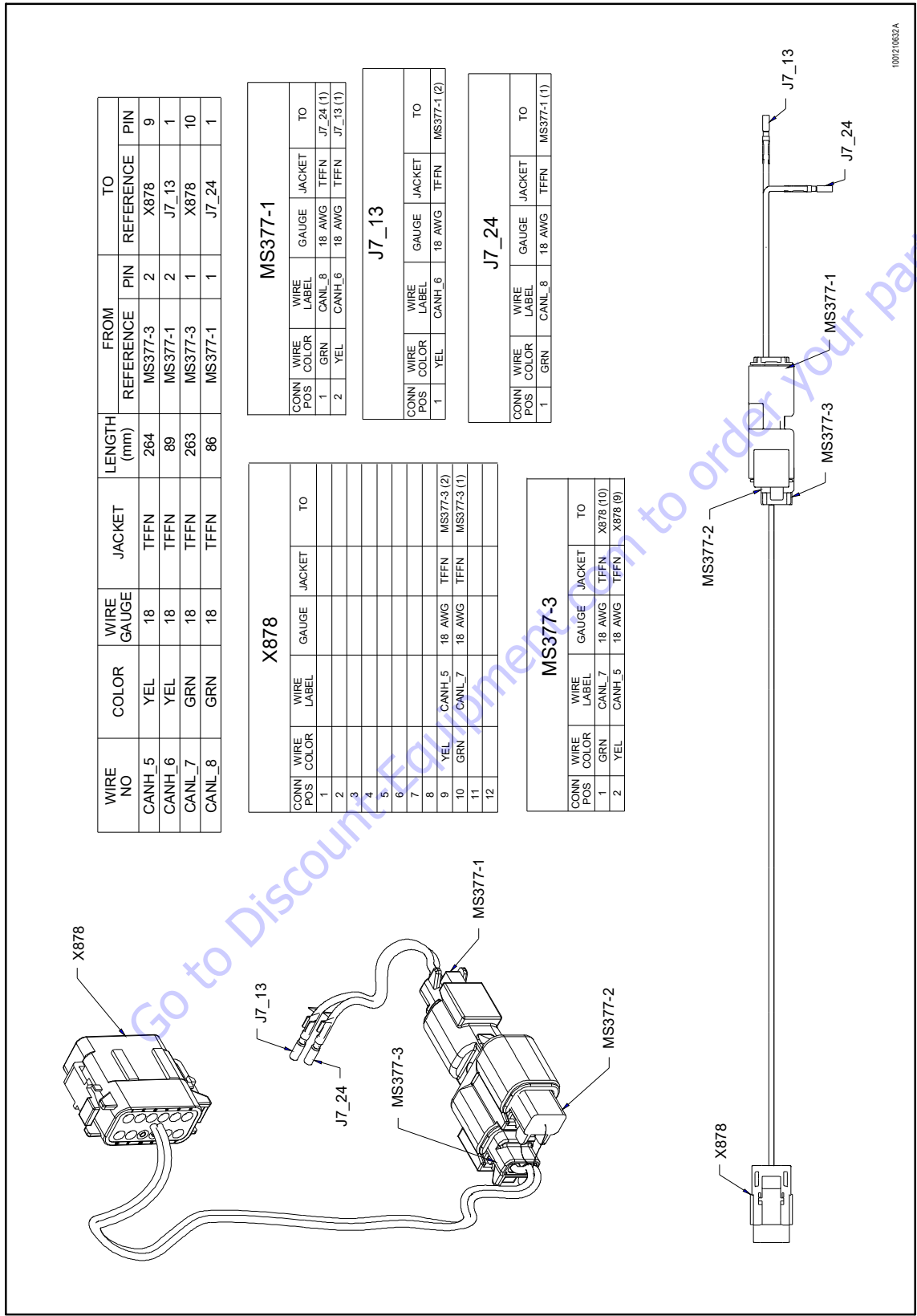
SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

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

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

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

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



10070632A

Figure 7-67. Cribbing Module Harness - Sheet 1 of 2

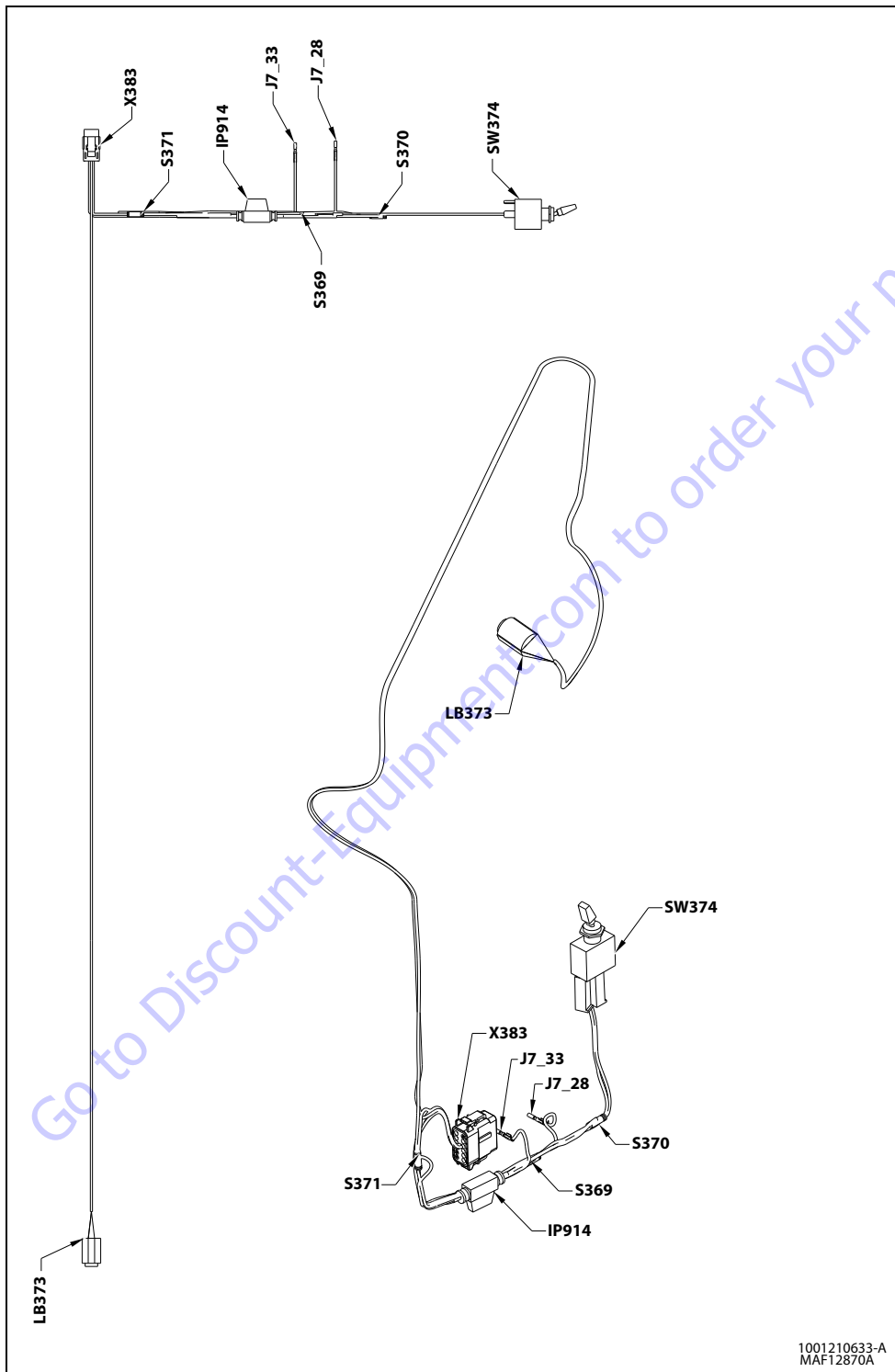


Figure 7-68. Cribbing Module Harness - Sheet 2 of 2

1001210633-A
MAF12870A

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

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

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

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

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

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

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

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

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

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

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

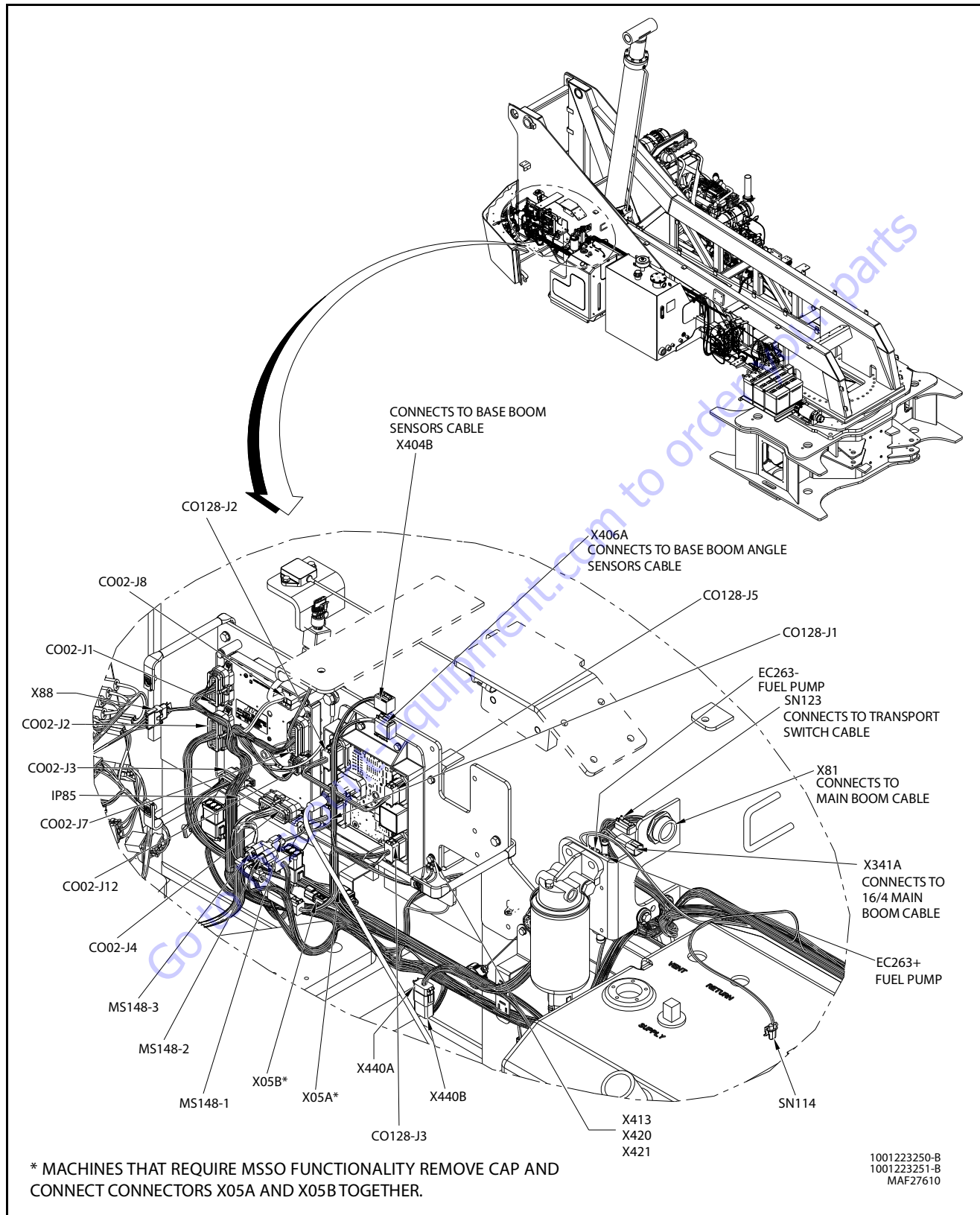


Figure 7-69. Electrical Installation - Sheet 1 of 12

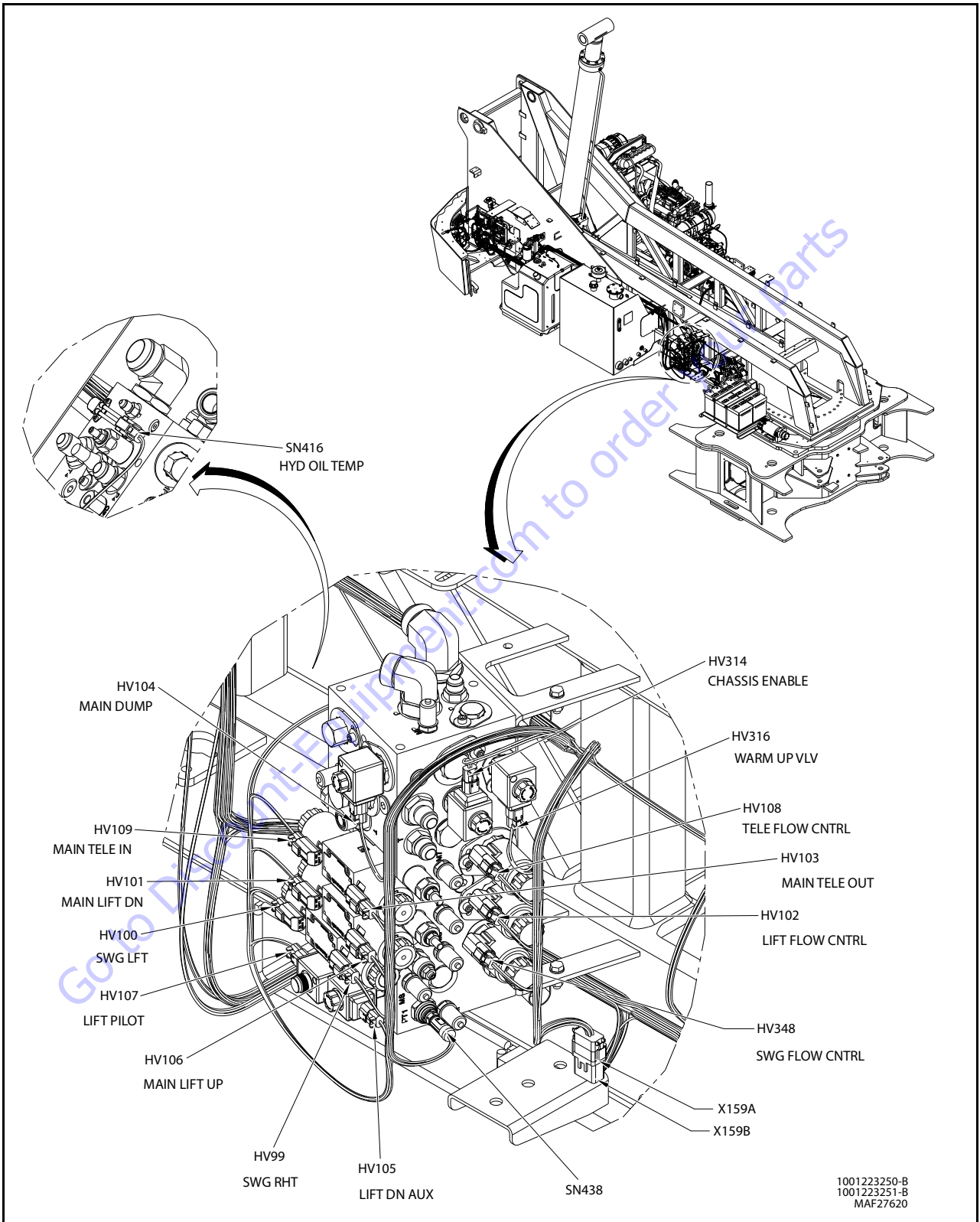


Figure 7-70. Electrical Installation - Sheet 2 of 12

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

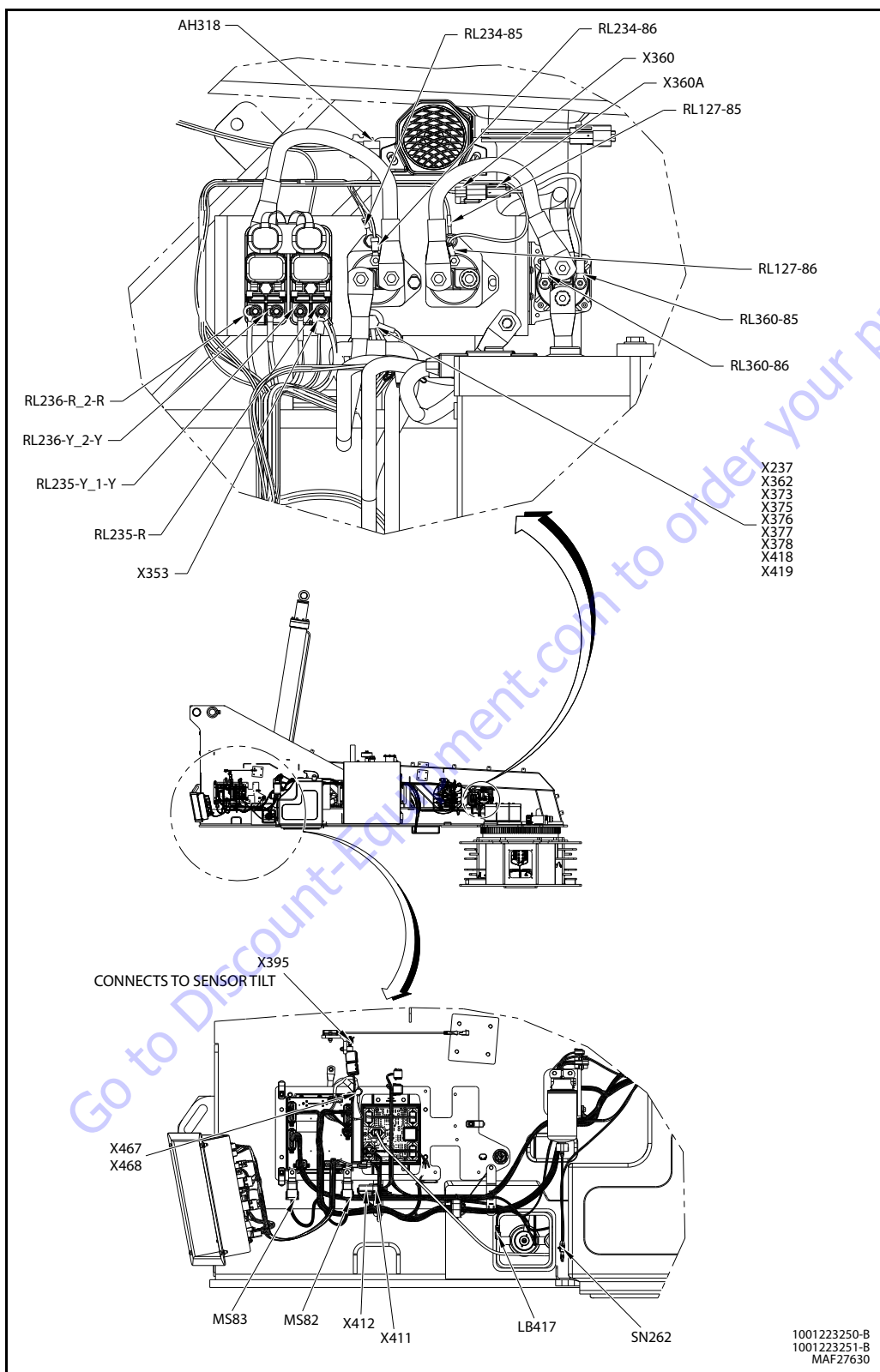


Figure 7-71. Electrical Installation - Sheet 3 of 12

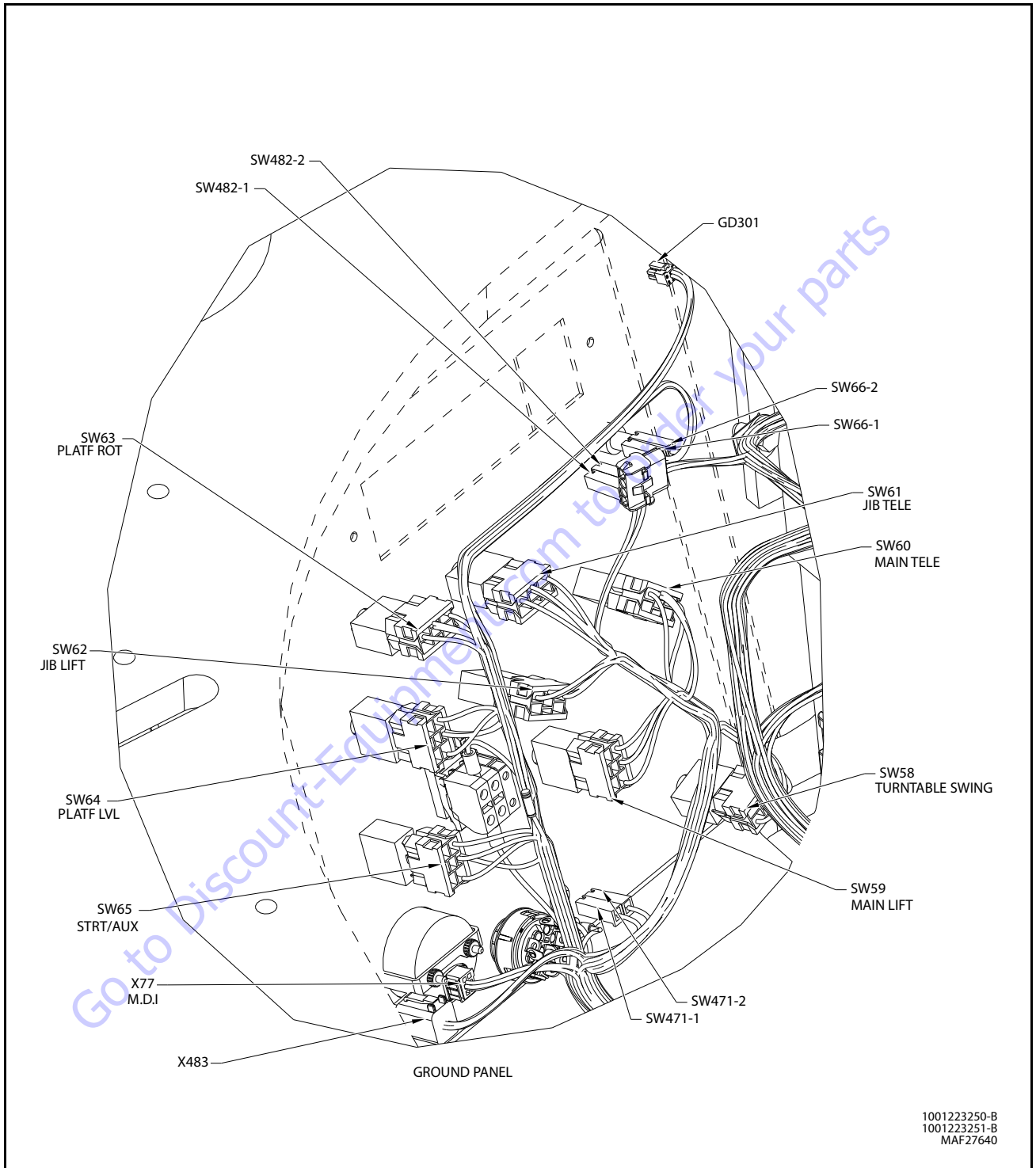


Figure 7-72. Electrical Installation - Sheet 4 of 12

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

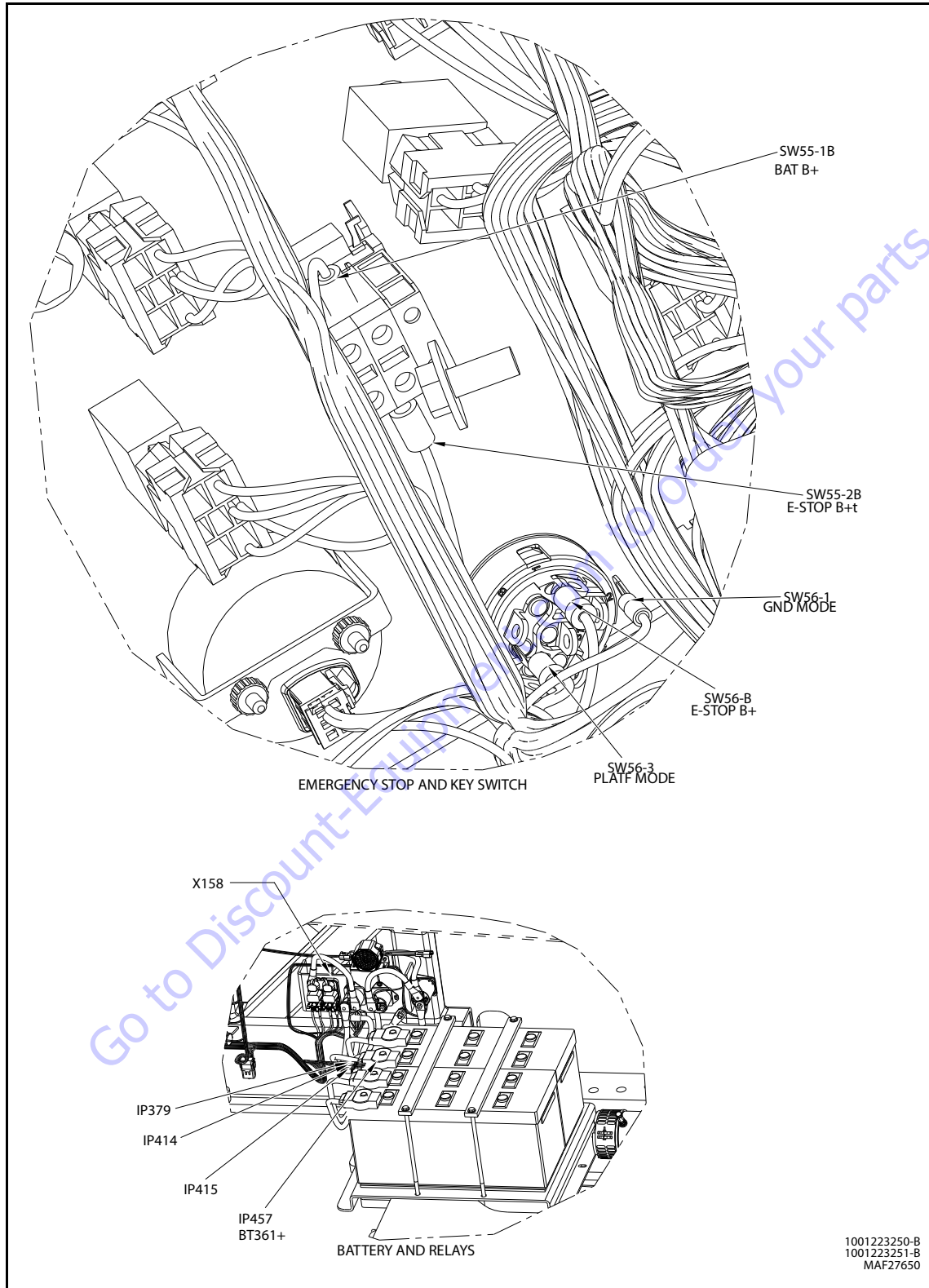


Figure 7-73. Electrical Installation - Sheet 5 of 12

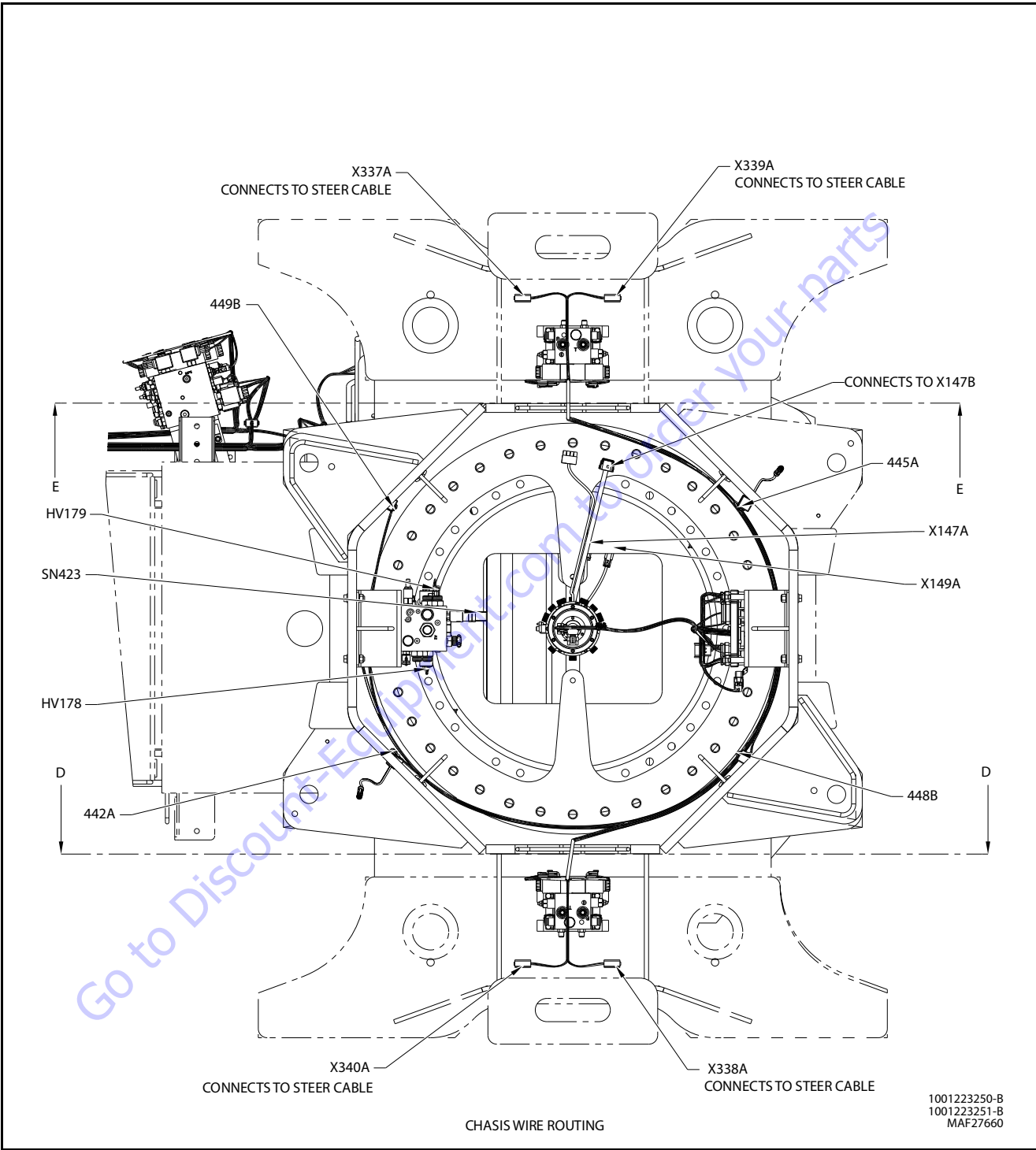


Figure 7-74. Electrical Installation - Sheet 6 of 12

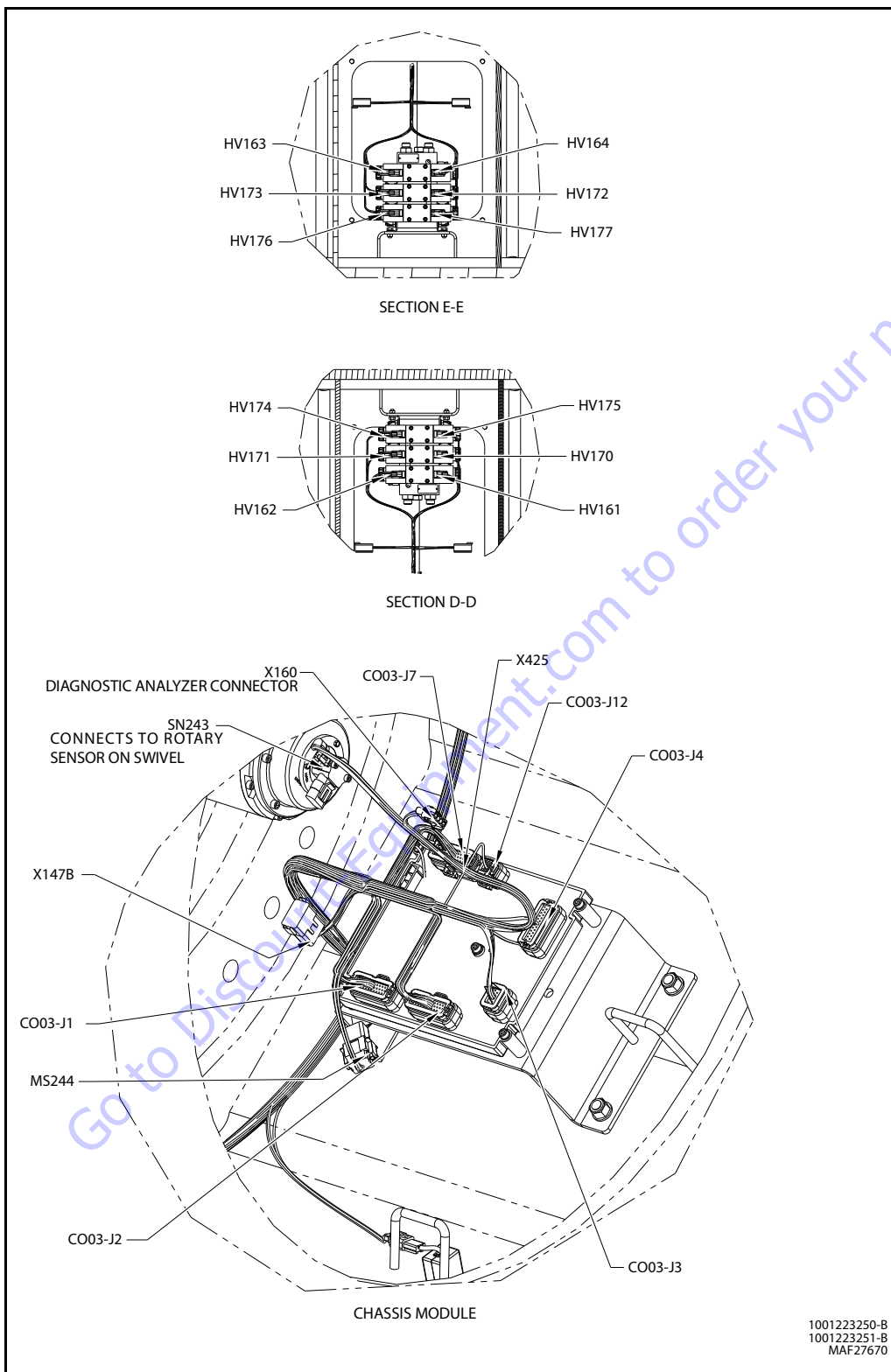


Figure 7-75. Electrical Installation - Sheet 7 of 12

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

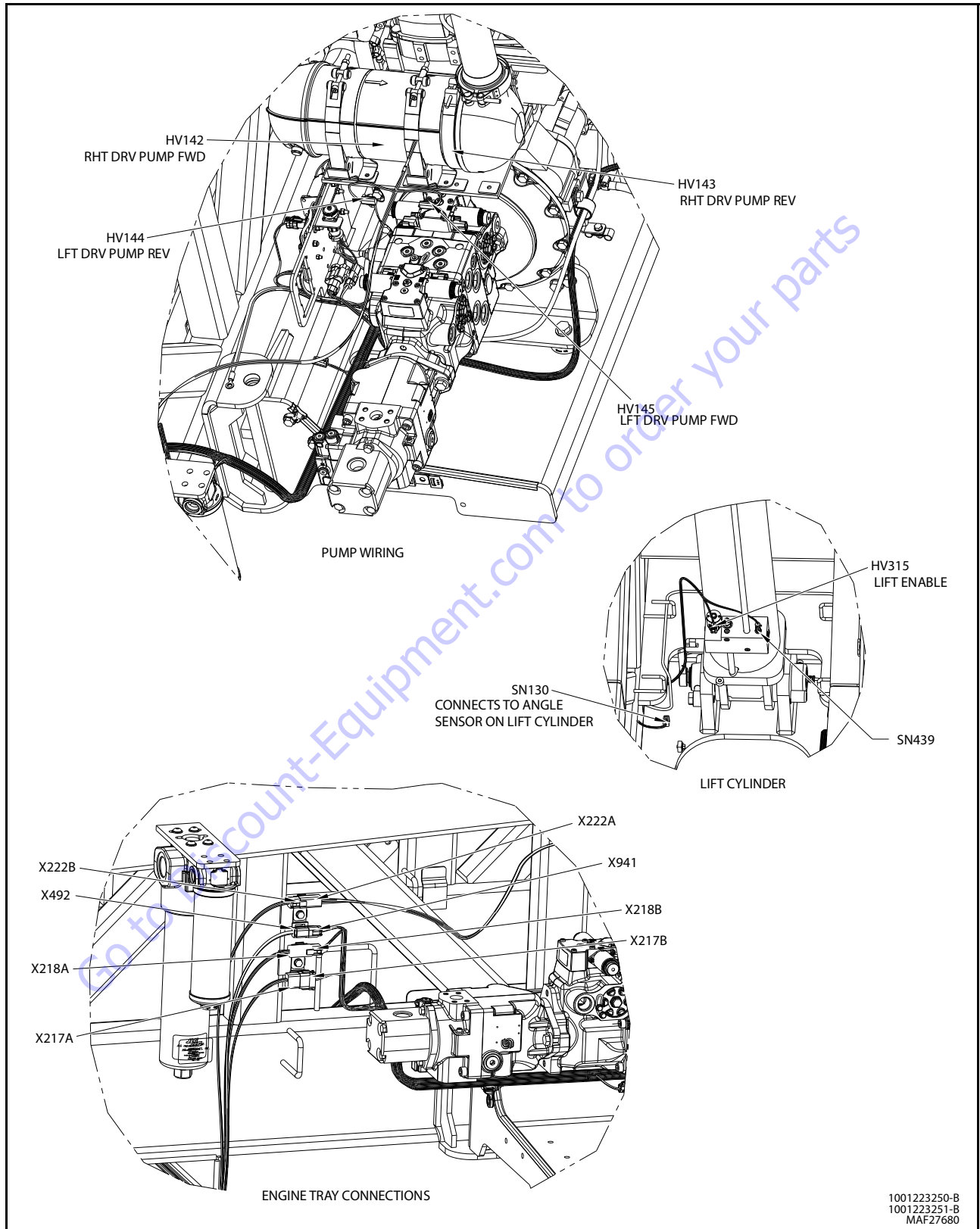


Figure 7-76. Electrical Installation - Sheet 8 of 12

1001223250-B
1001223251-B
MAF27680

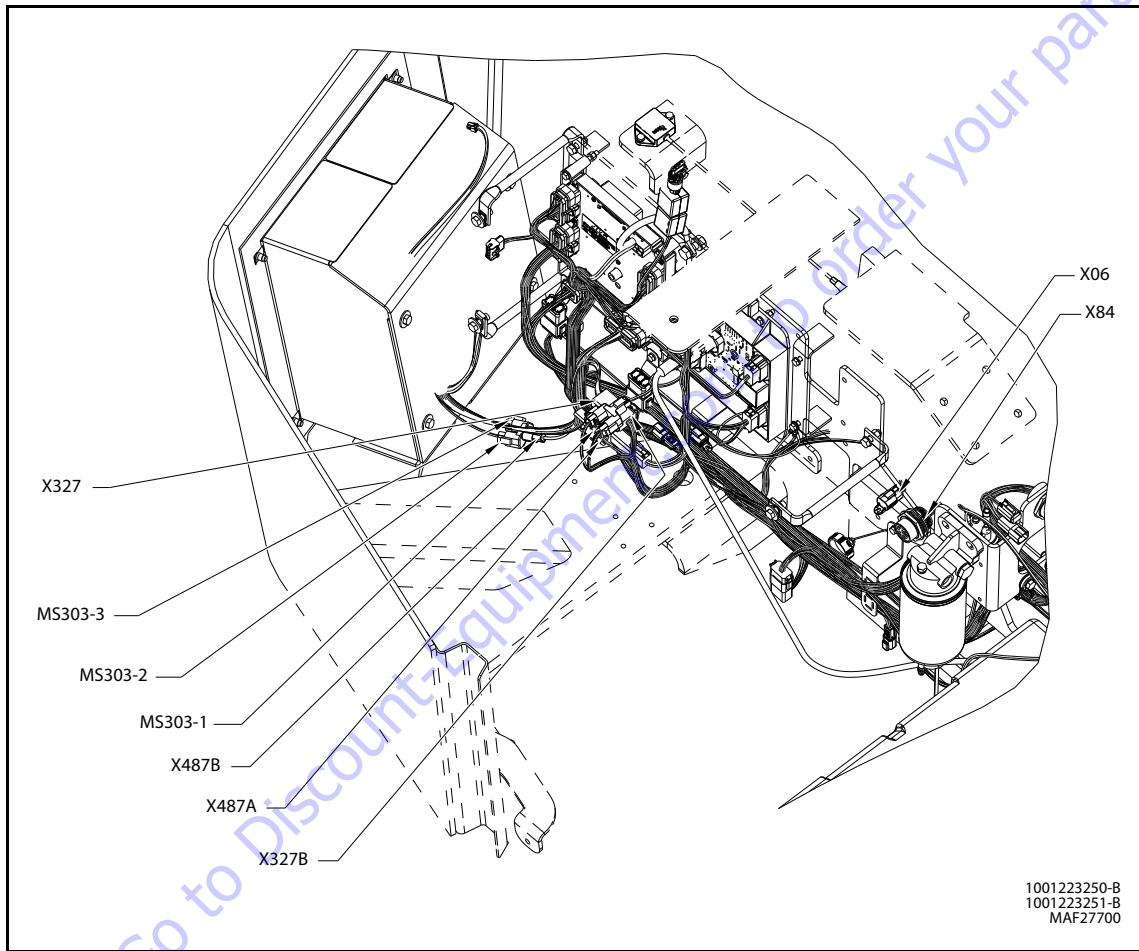


Figure 7-77. Electrical Installation - Sheet 9 of 12

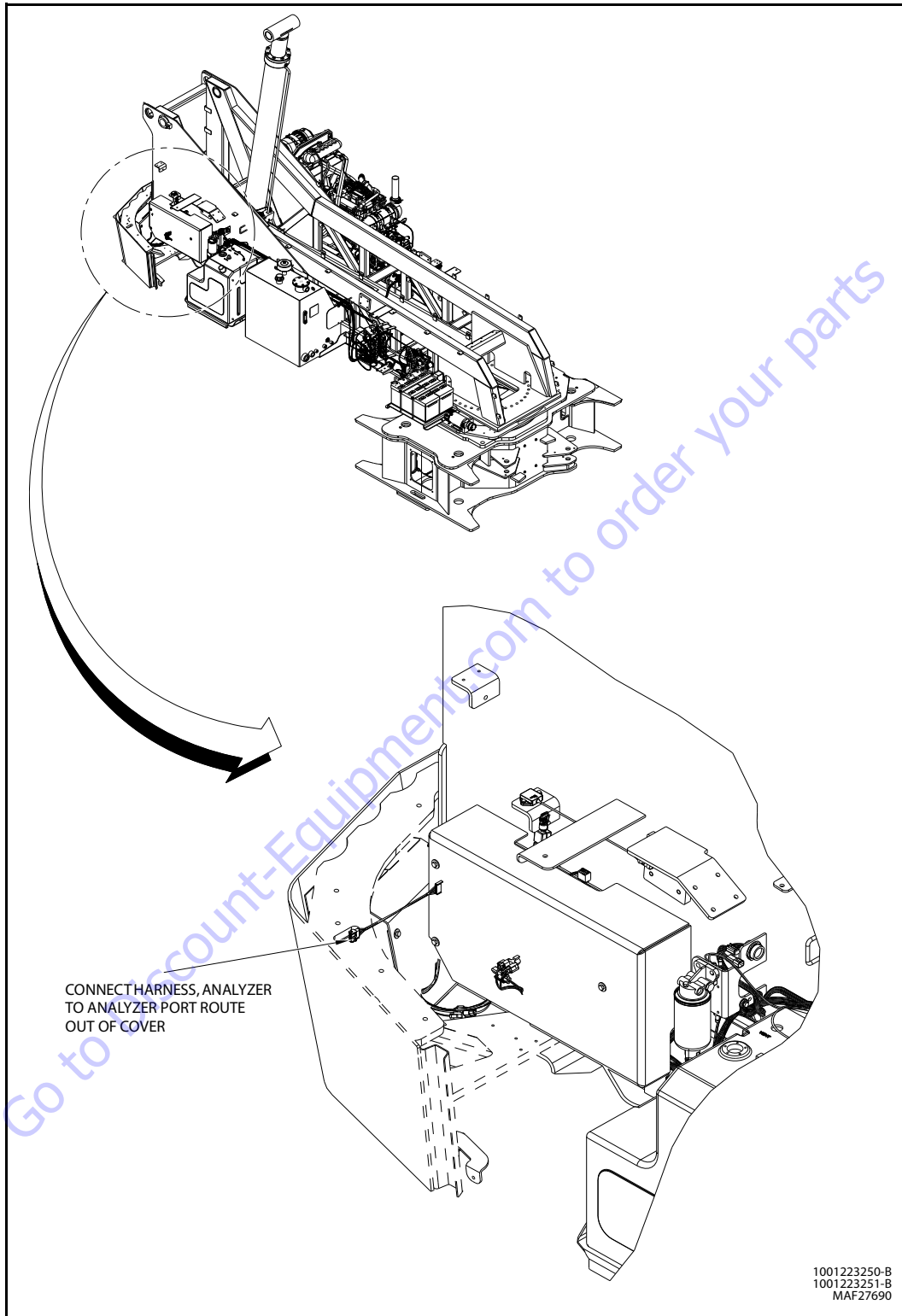


Figure 7-78. Electrical Installation - Sheet 10 of 12

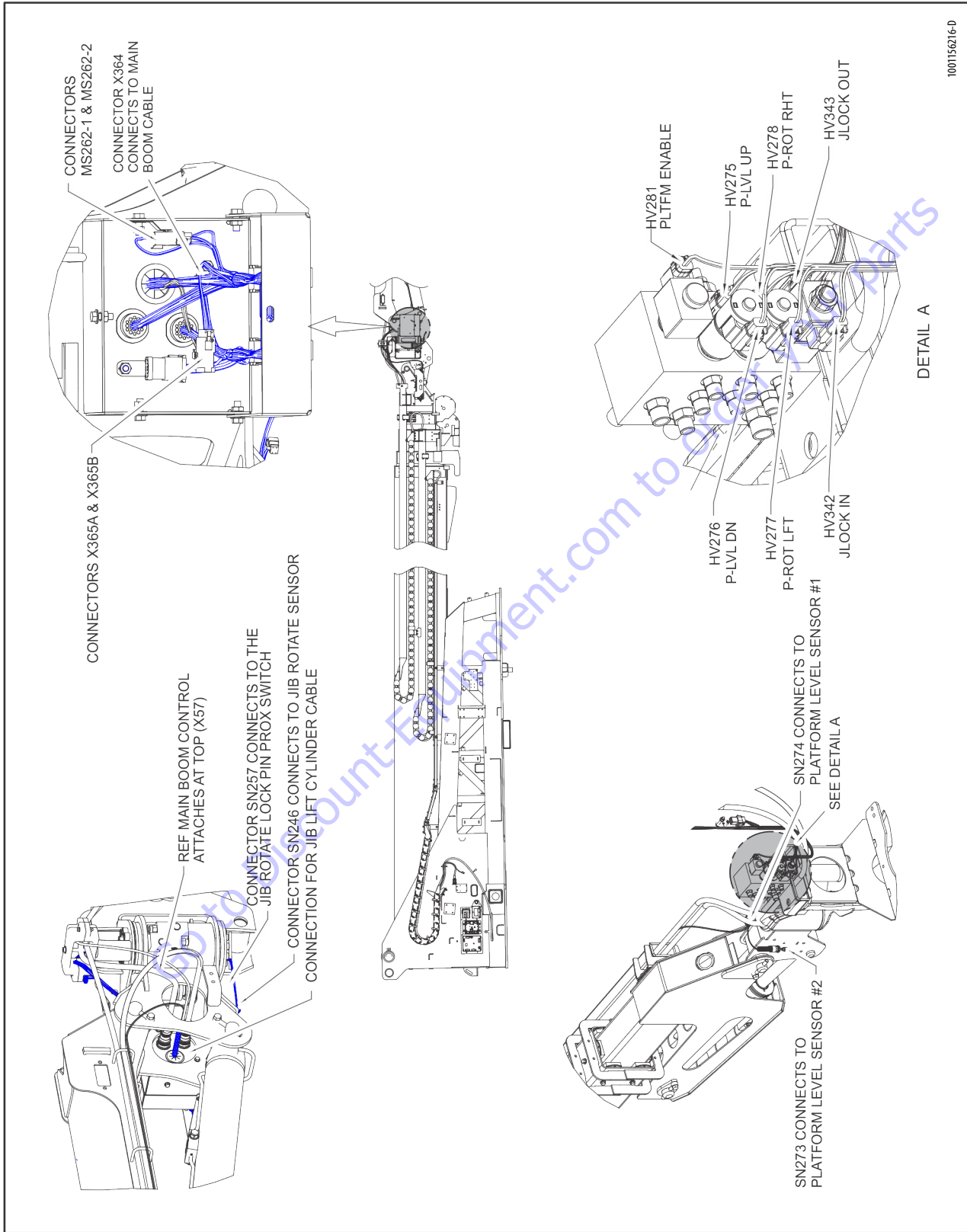


Figure 7-79. Electrical Installation - Sheet 11 of 12

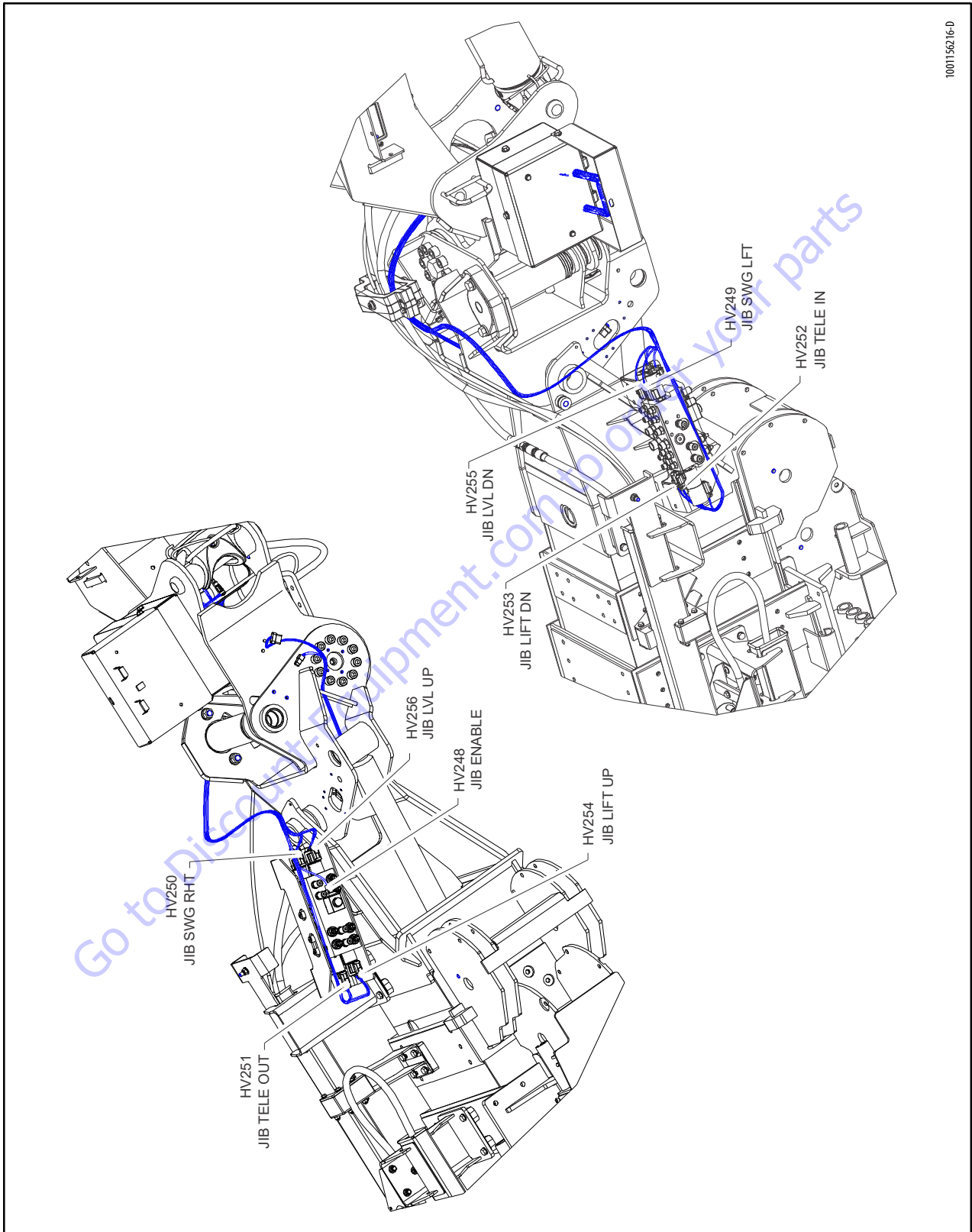


Figure 7-80. Electrical Installation - Sheet 12 of 12

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

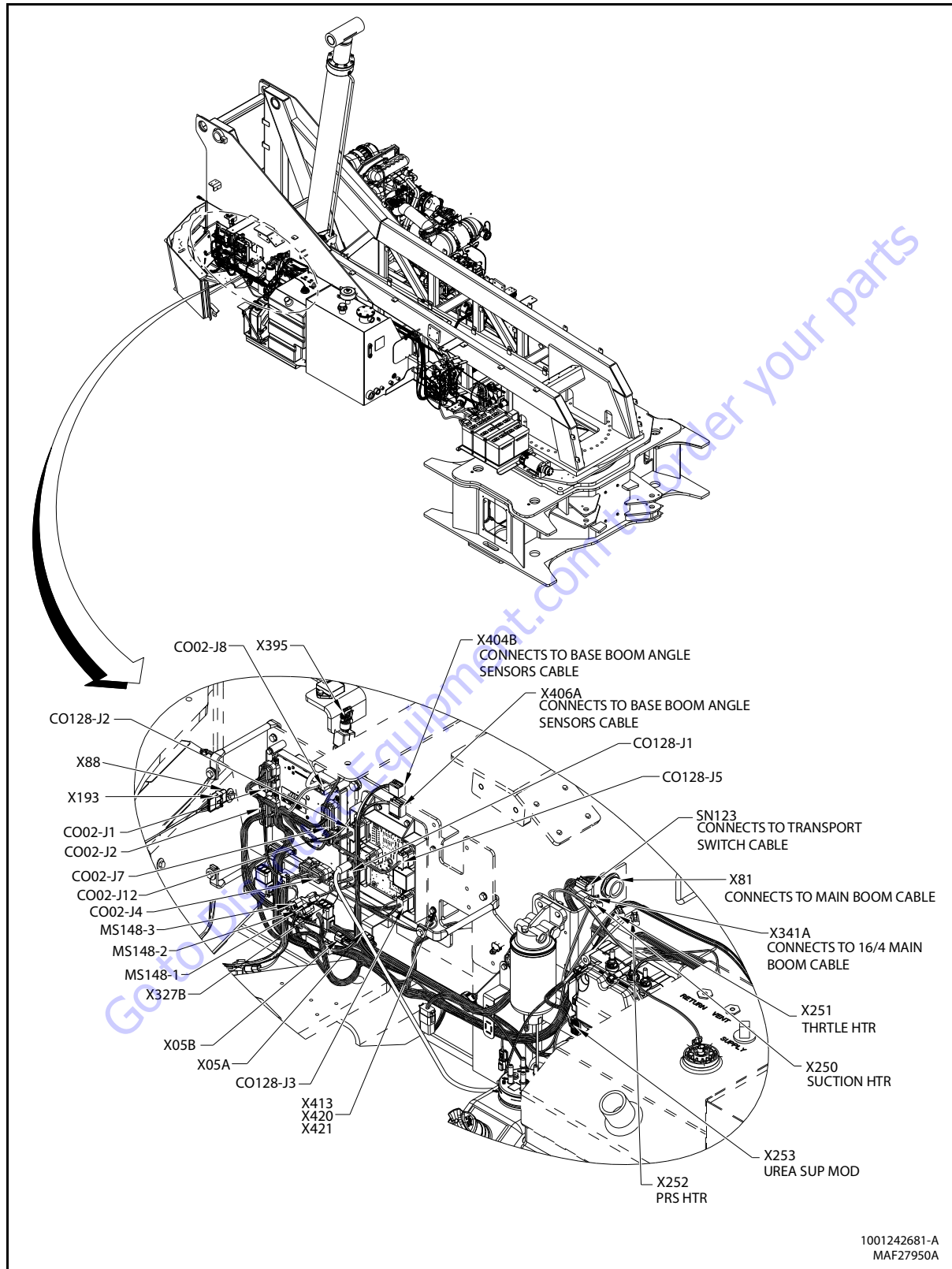


Figure 7-81. Electrical Installation (T4F) - Sheet 1 of 11

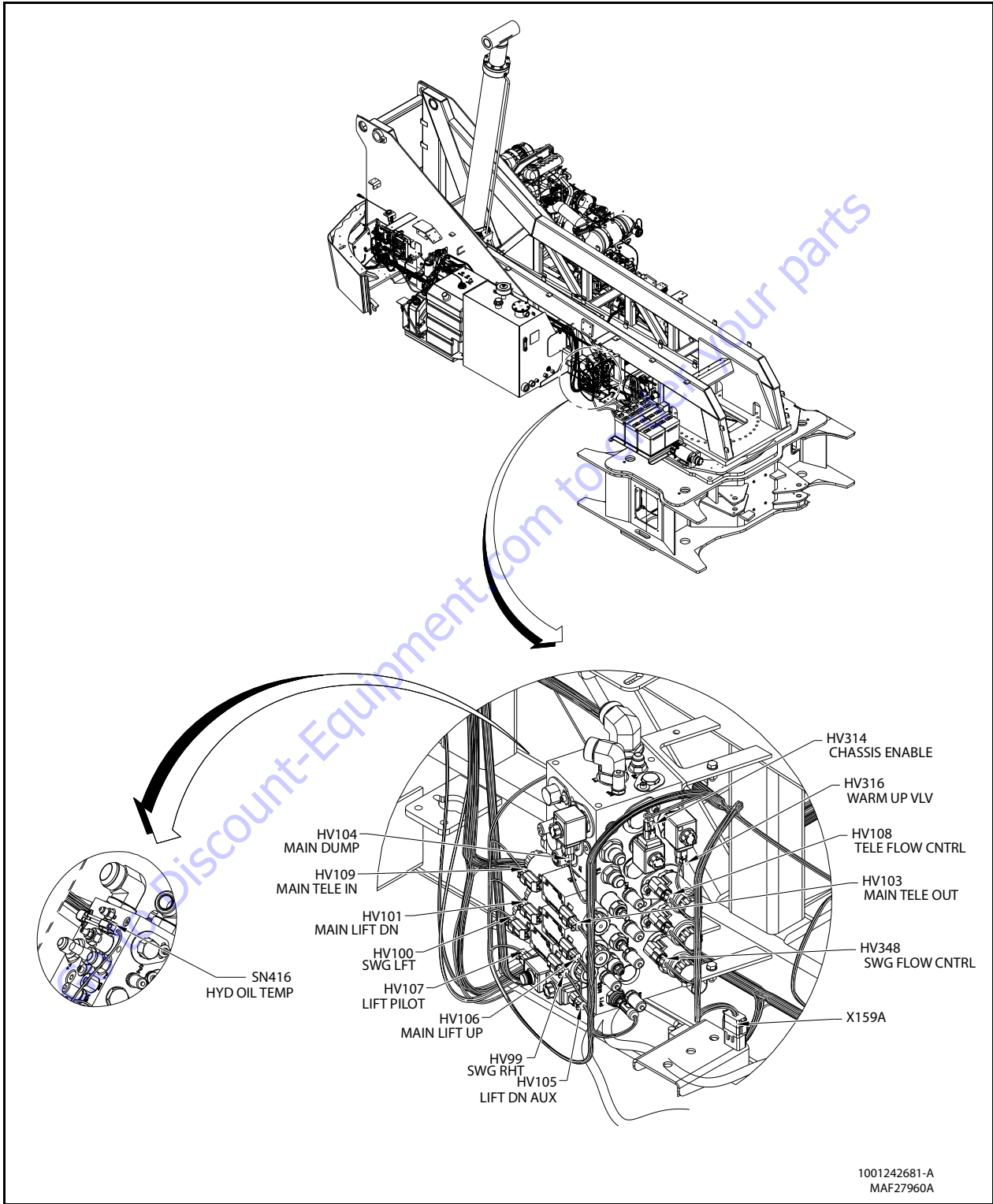


Figure 7-82. Electrical Installation (T4F) - Sheet 2 of 11

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

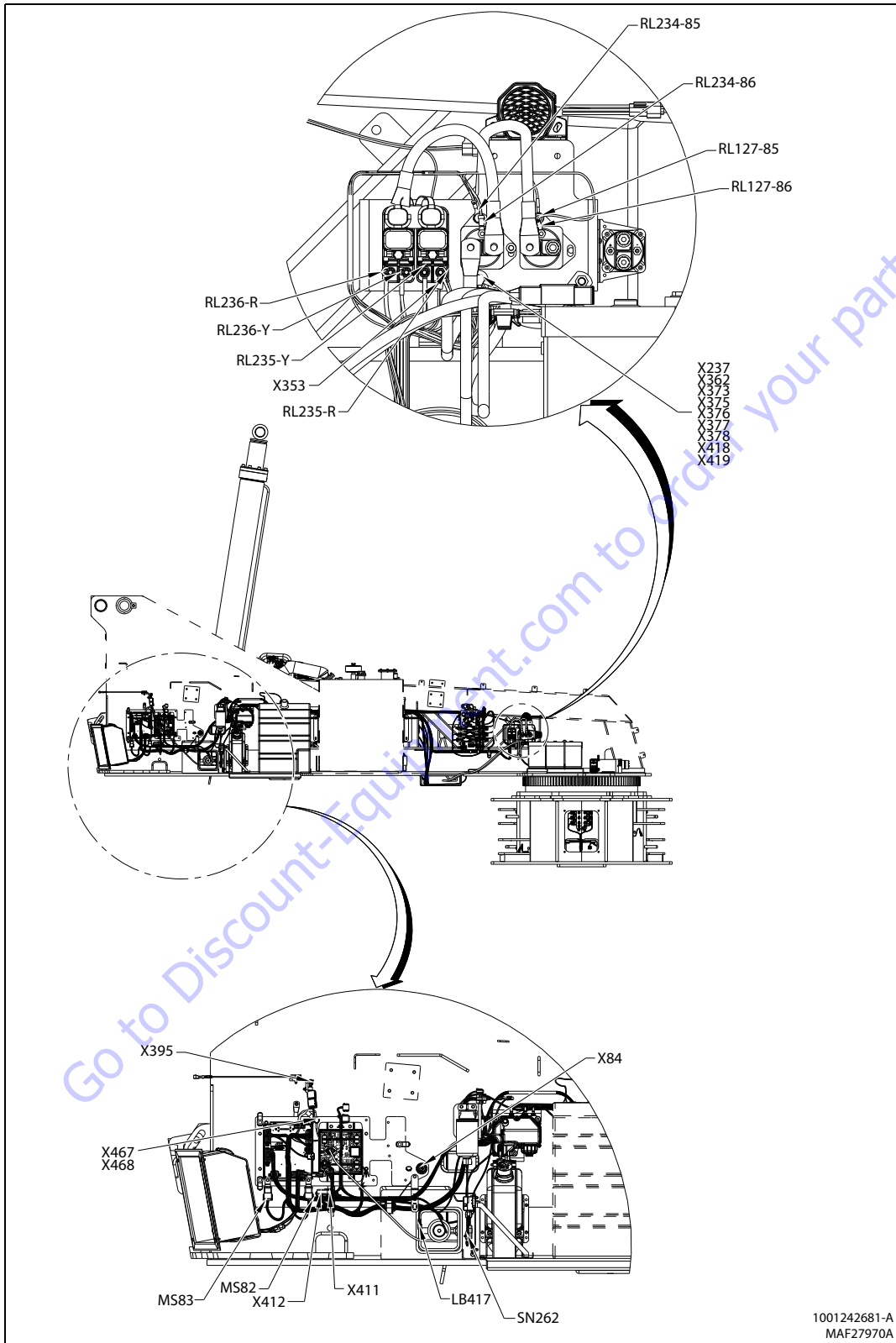


Figure 7-83. Electrical Installation (T4F) - Sheet 3 of 11

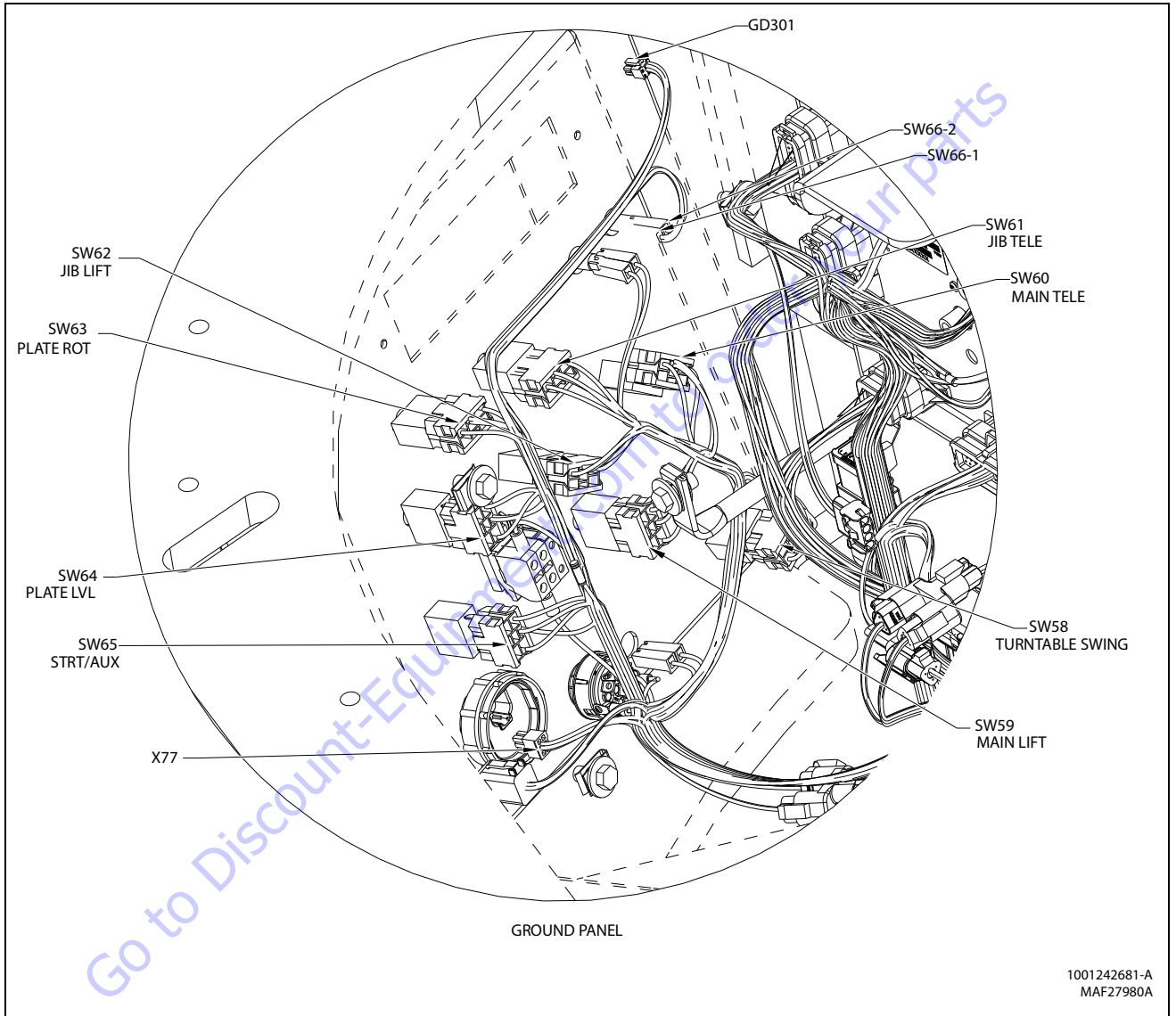


Figure 7-84. Electrical Installation (T4F) - Sheet 4 of 11

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

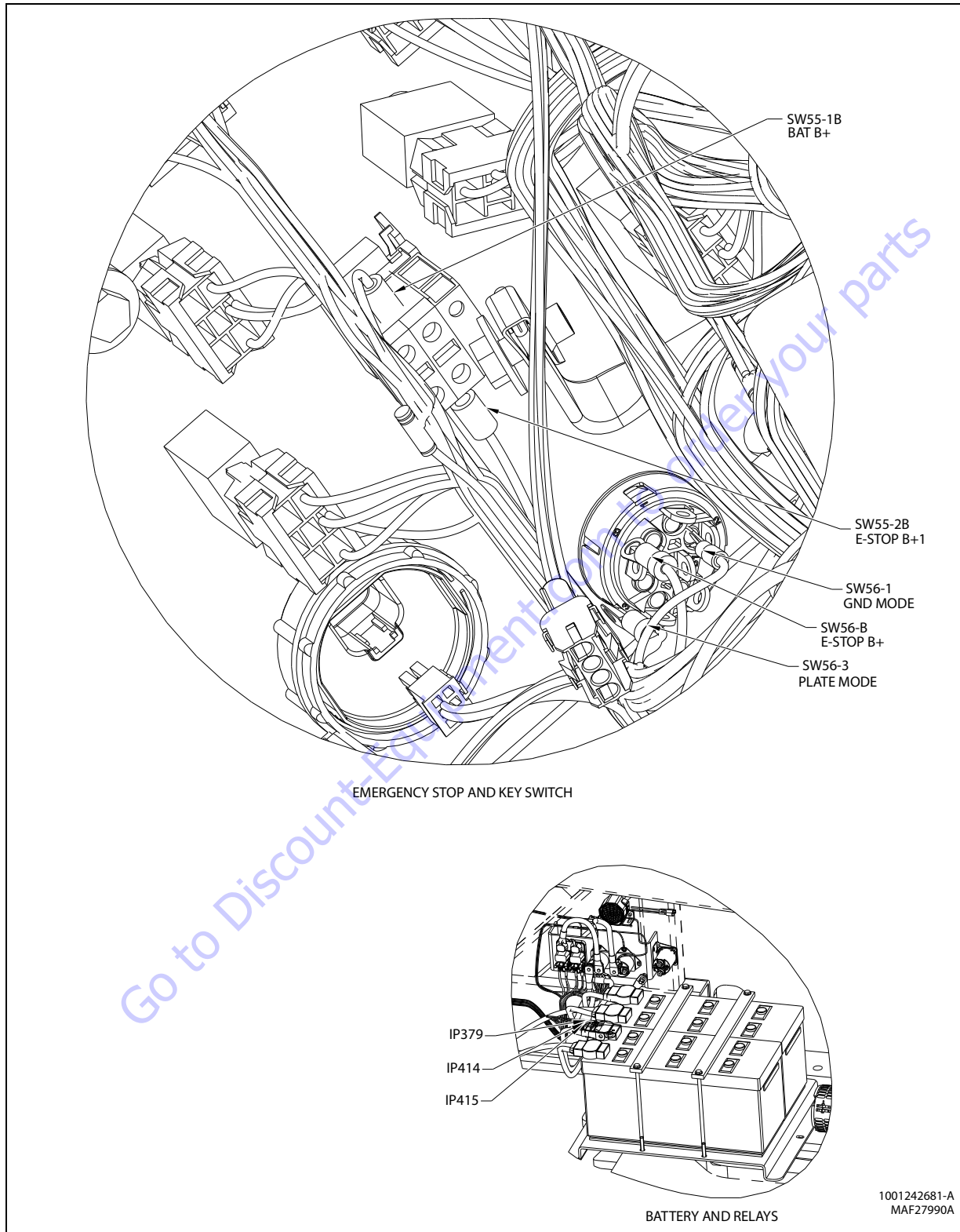


Figure 7-85. Electrical Installation (T4F) - Sheet 5 of 11

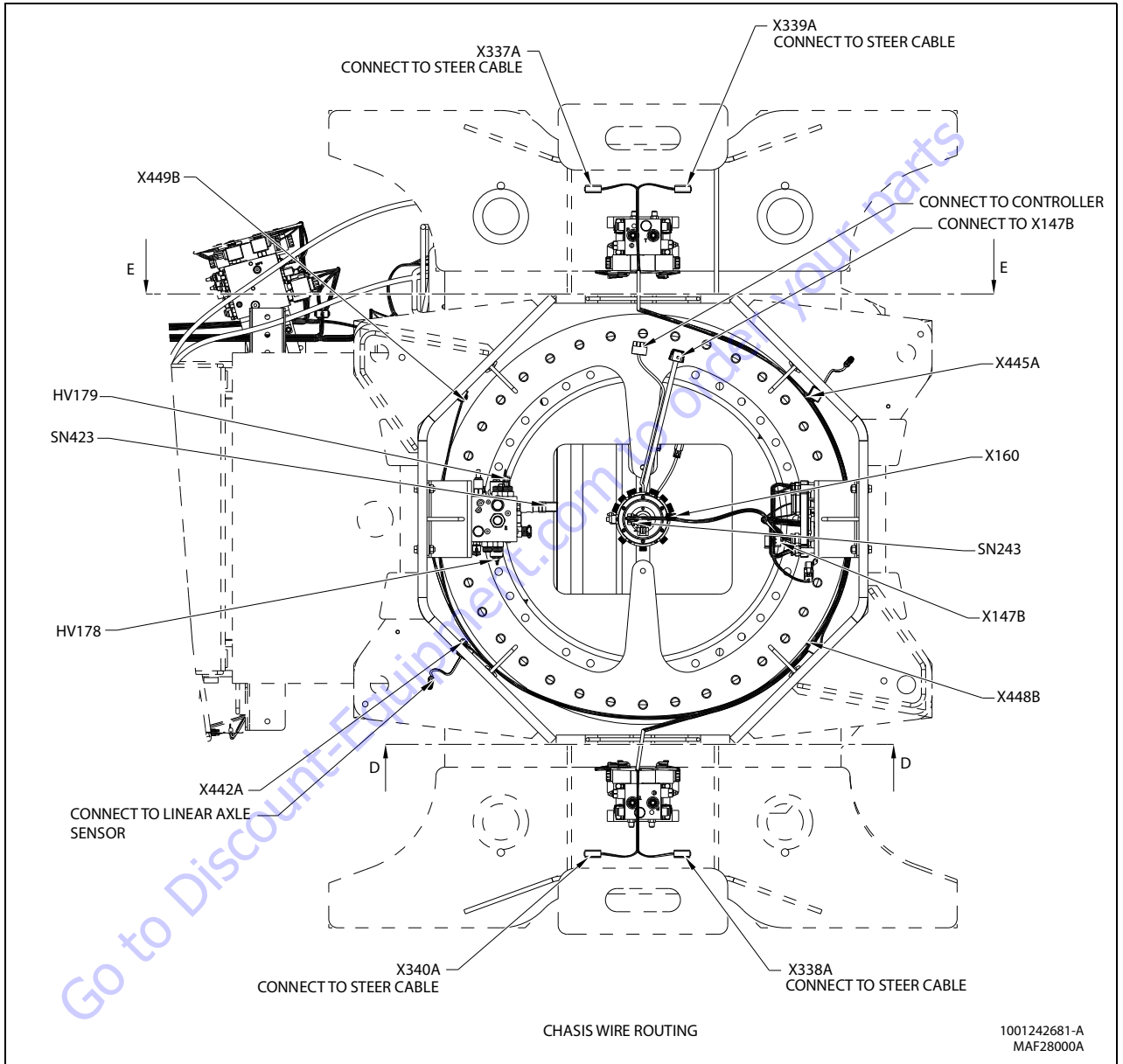


Figure 7-86. Electrical Installation (T4F) - Sheet 6 of 11

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

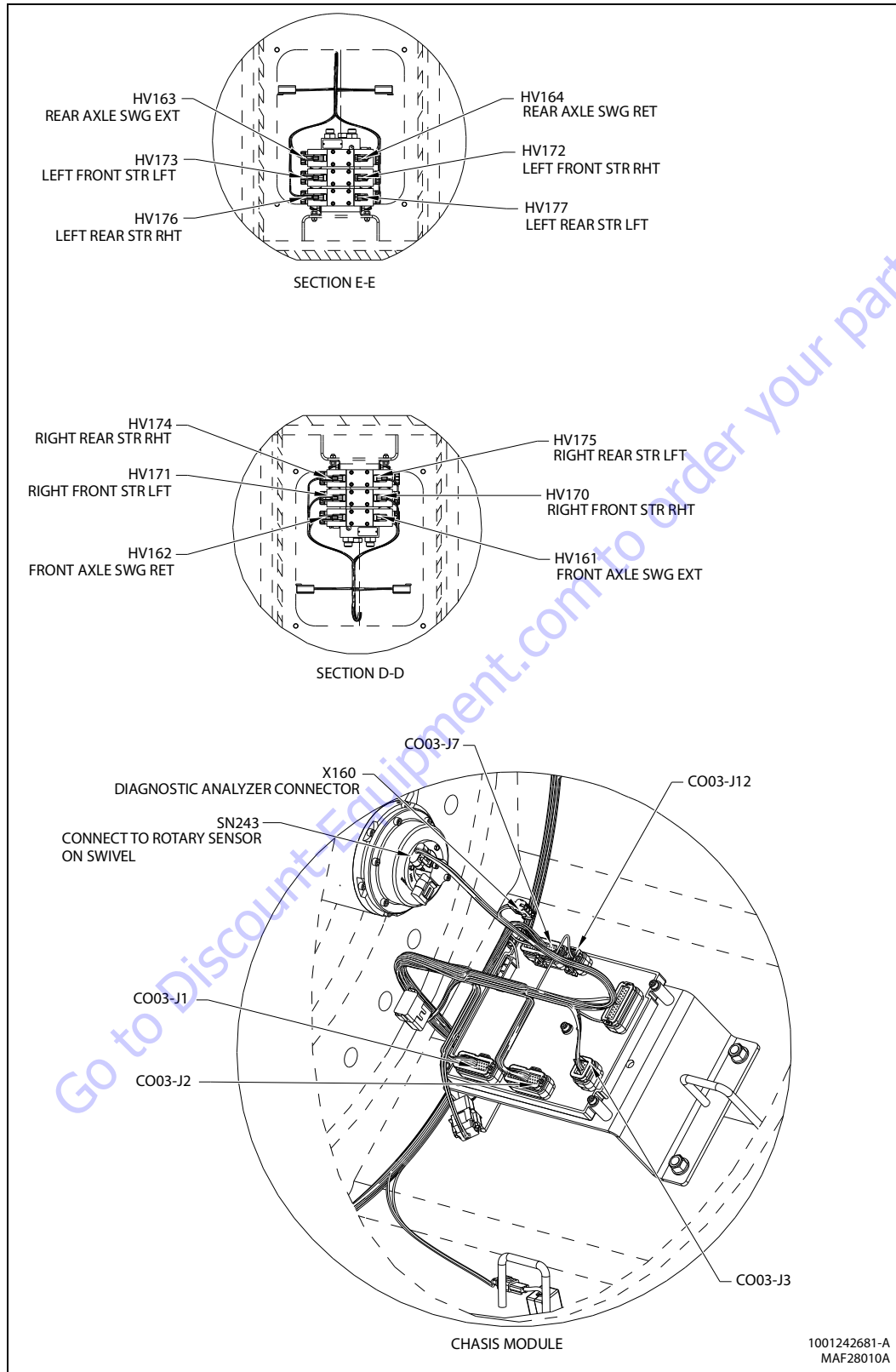


Figure 7-87. Electrical Installation (T4F) - Sheet 7 of 11

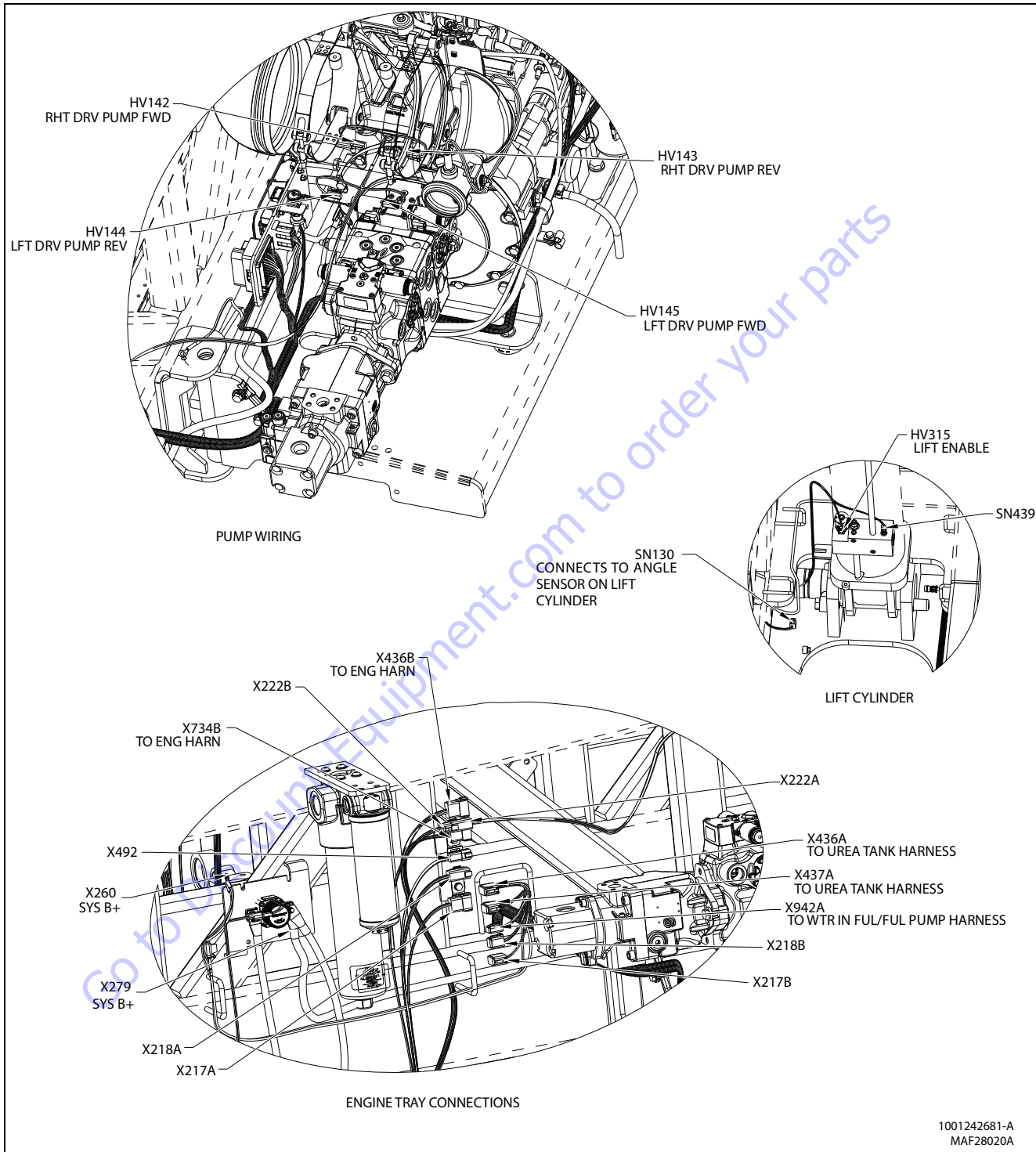


Figure 7-88. Electrical Installation (T4F) - Sheet 8 of 11

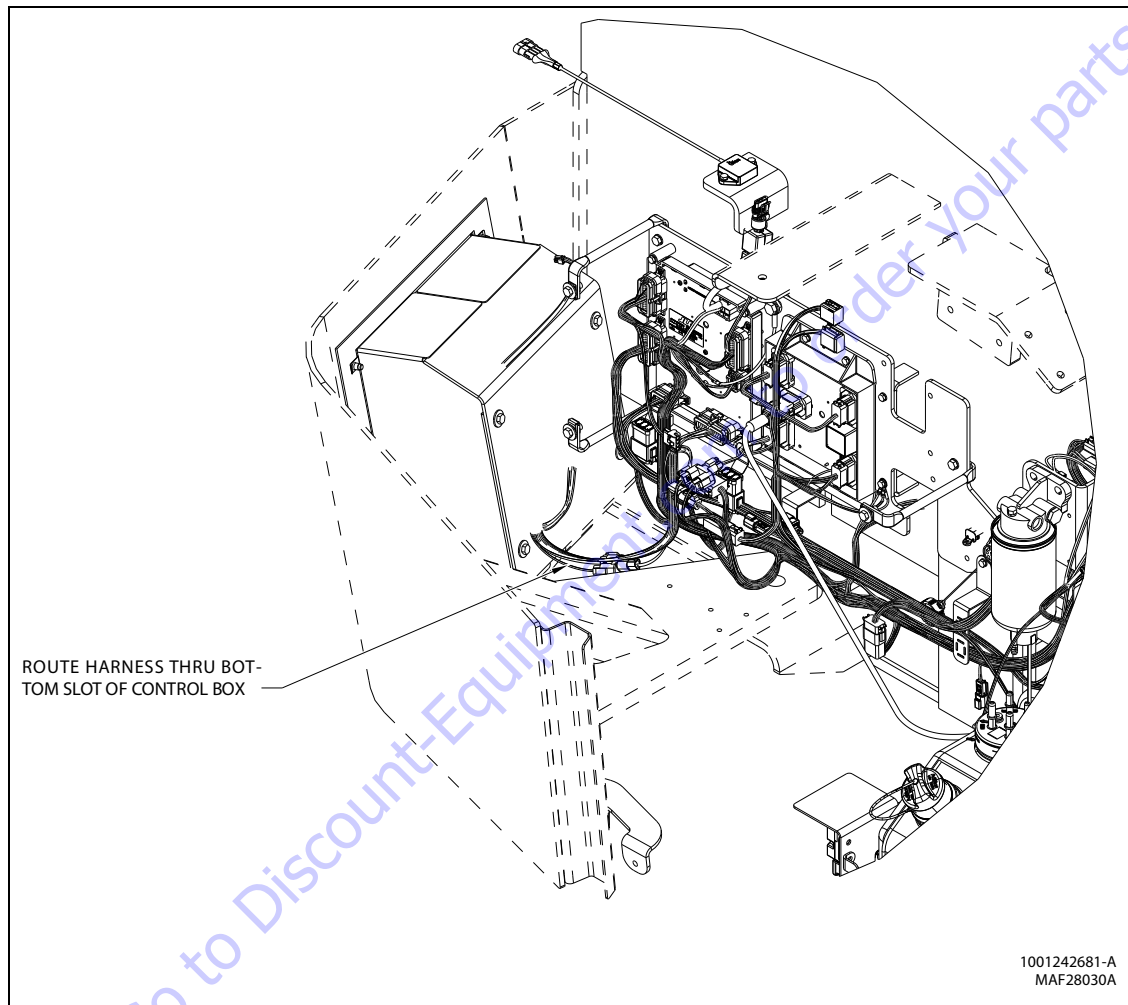


Figure 7-89. Electrical Installation (T4F) - Sheet 9 of 11

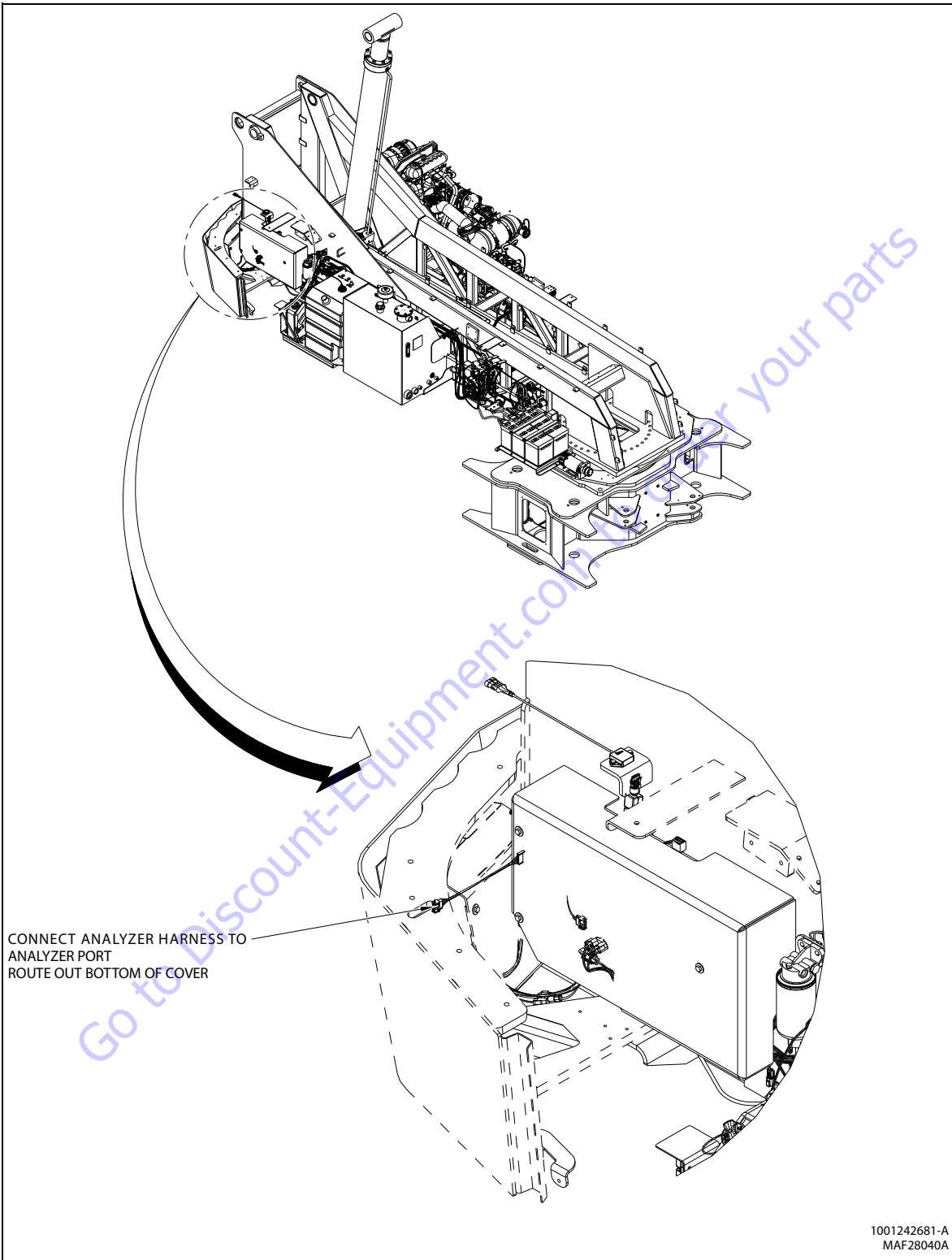


Figure 7-90. Electrical Installation (T4F) - Sheet 10 of 11

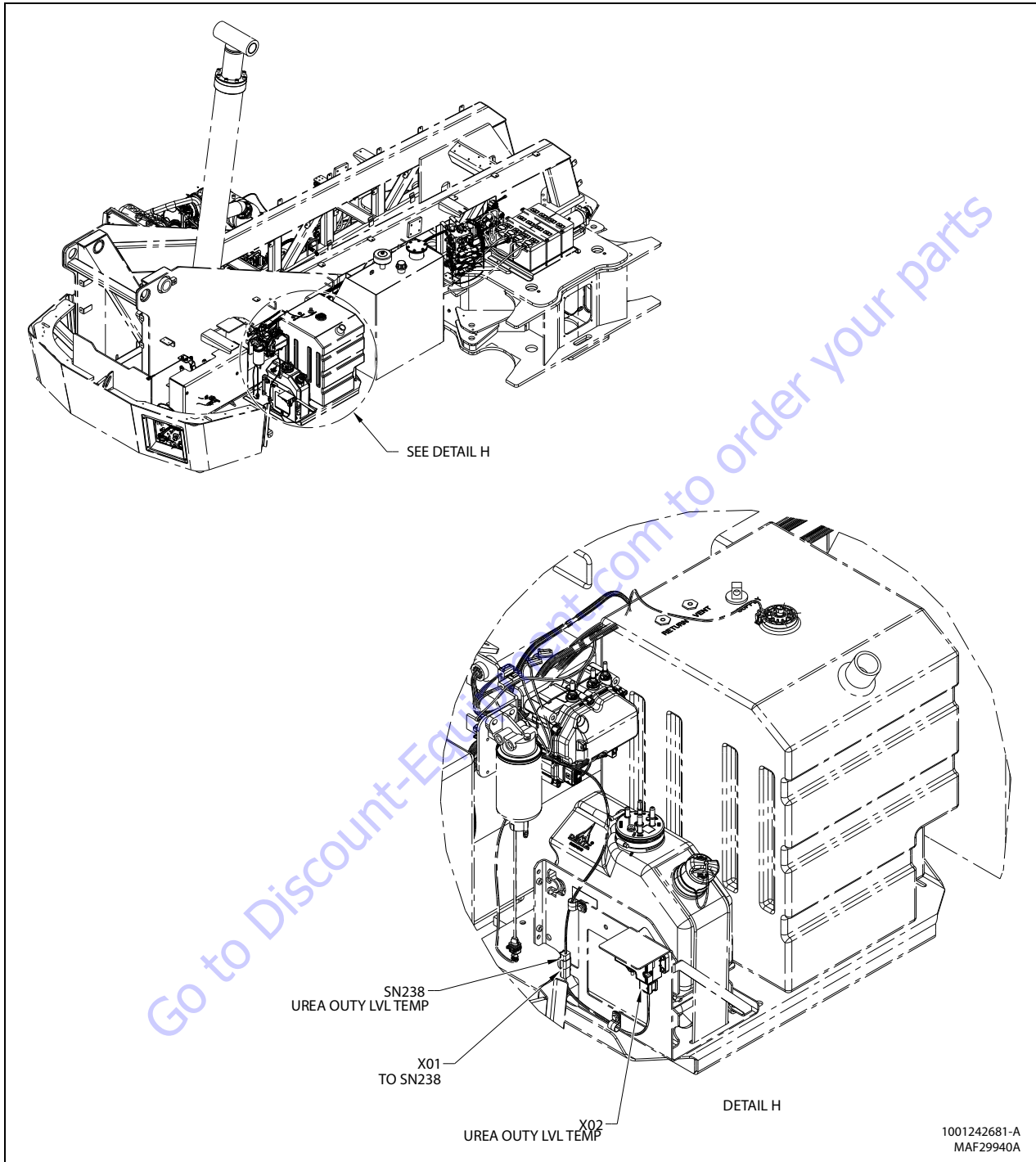
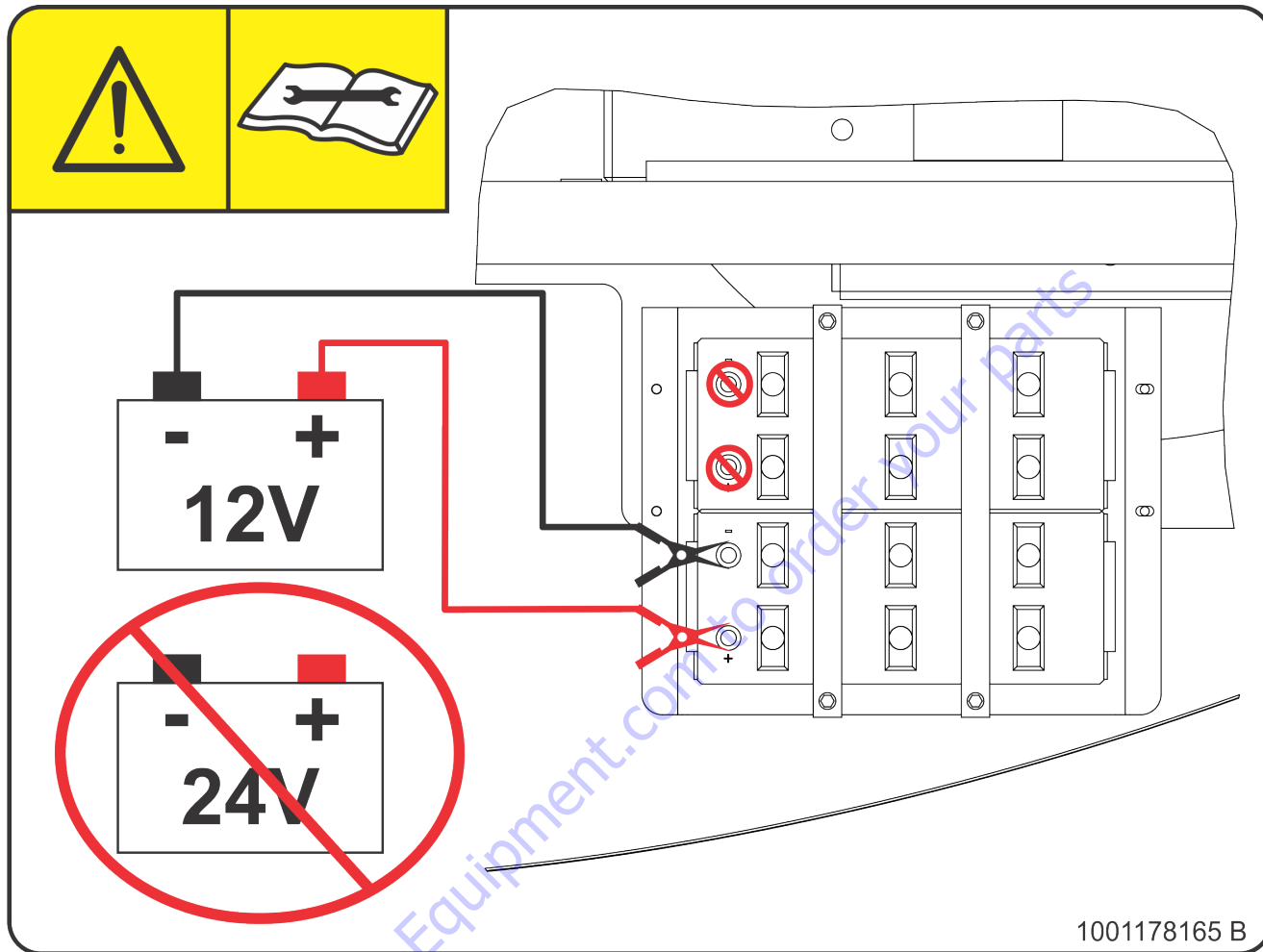


Figure 7-91. Electrical Installation (T4F) - Sheet 11 of 11



1001178165 B

⚠ CAUTION

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

Figure 7-92. Battery Jump-Start Hookup

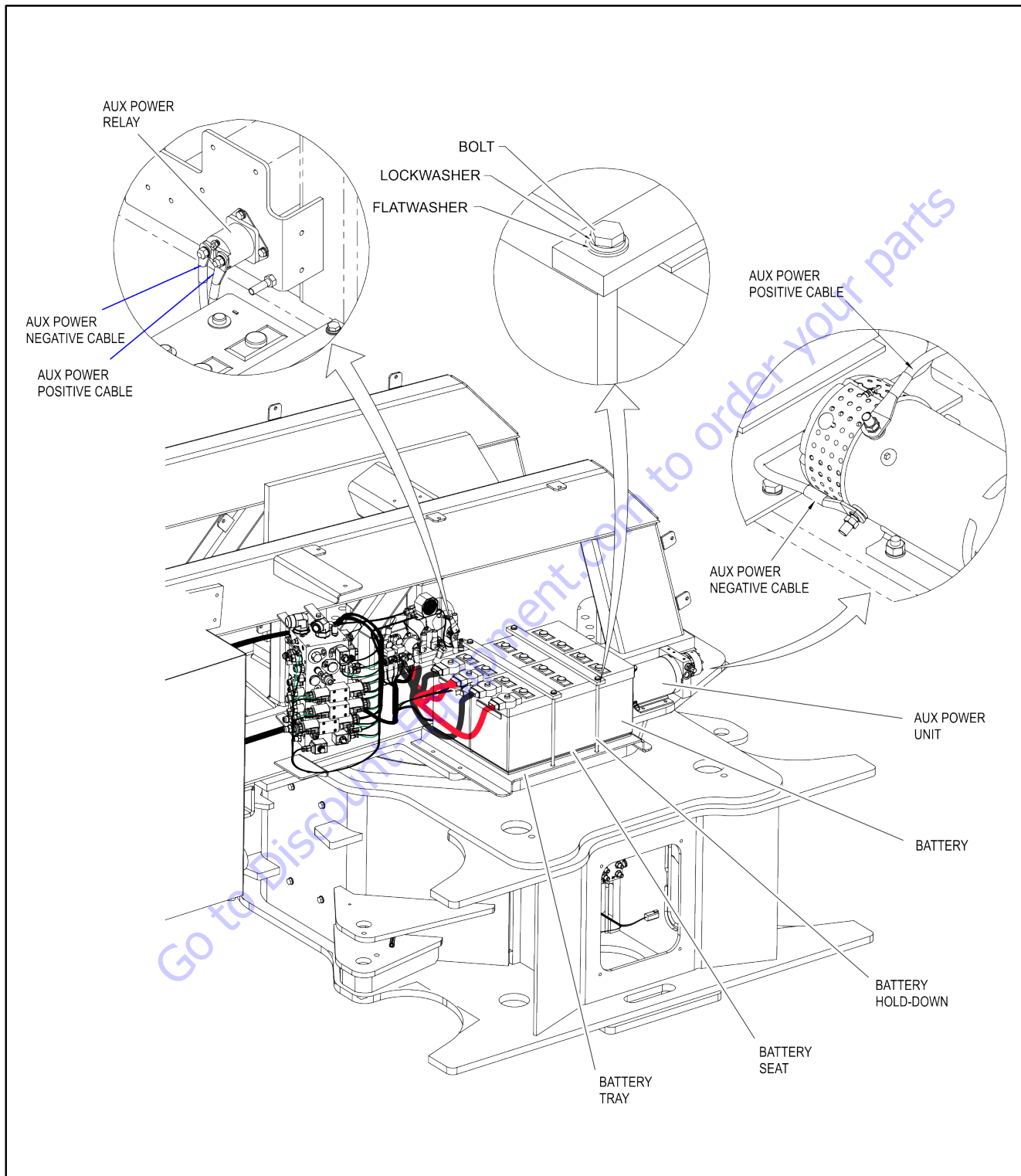
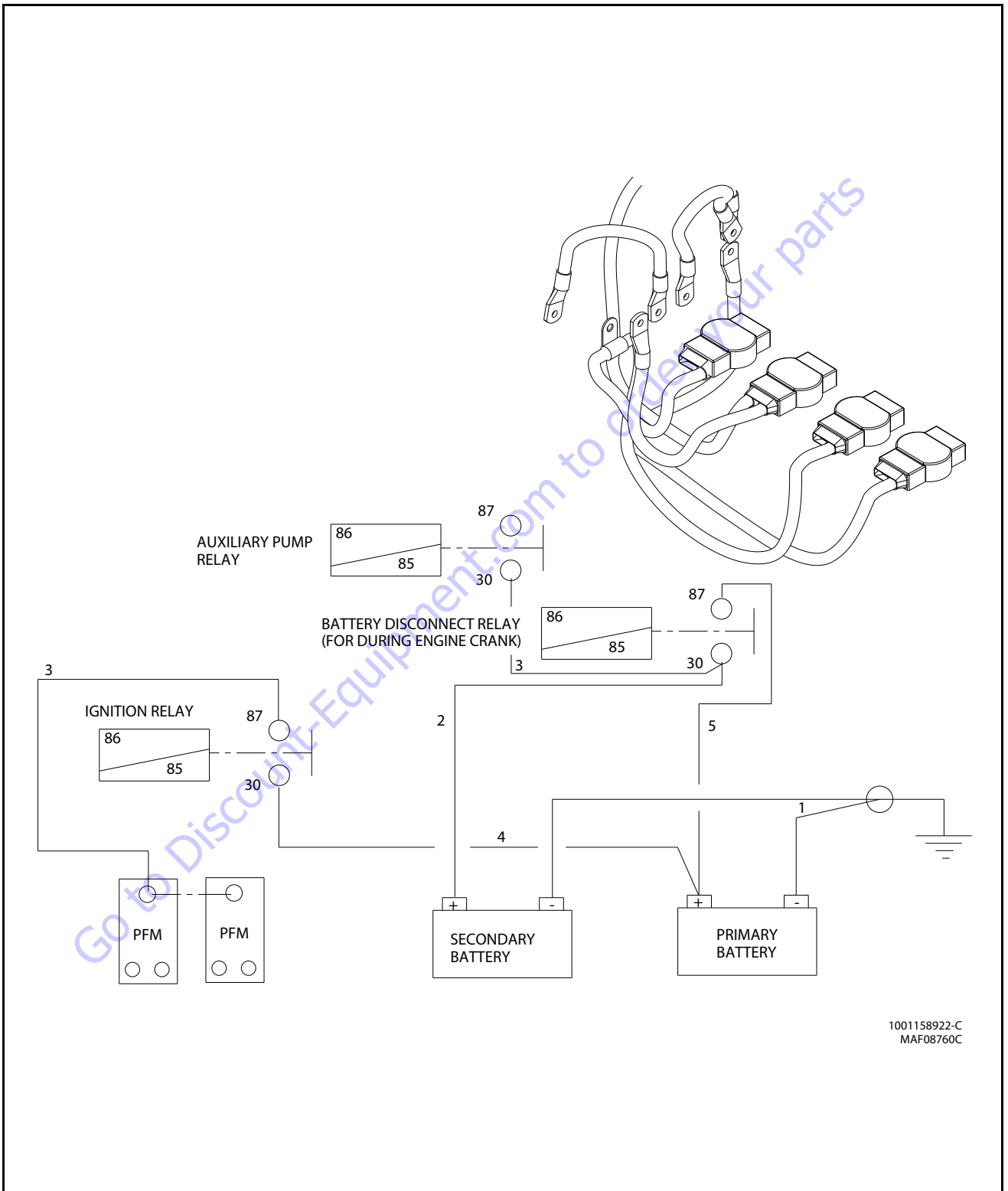


Figure 7-93. Battery Installation - Sheet 1 of 2



1001158922-C
MAF08760C

Figure 7-94. Battery Installation - Sheet 2 of 2

7.8 ELECTRICAL SCHEMATIC

SHEET 2: PLATFORM BOX

Control Box Harness
Electrical Assembly, Console Box

SHEET 3: PLATFORM AND JIB COMPONENTS

Platform Valve Harness
Jib Valve Harness

SHEET 4: TURNTABLE AND BOOM

BLAM Harness
Load Sensing Pin Cable
Base Boom Sensor Cable
Base Boom Harness
Beacon/Strobe Harness
Fuel Pump and WIF Harness
Turntable Battery Kit Cable
Aux Power Positive Cable
Aux Power Negative Cable
Electrical Install

SHEET 5: GROUND CONTROLS

Turntable Harness
Ground Control Panel Harness

SHEET 6: CHASSIS

Chassis Harness
Steer Cable
M12 MTS Connection Cable

SHEET 7: HYDRAULIC VALVES

Hydraulic Valve Bank Harness
Drive Pump Harness

SHEET 8: ENGINE

Engine T4i Harness
Can Engine Harness
Alternator Power Cable
Positive Battery Cable
Negative Battery Cable
Glow Fuse Plug Wire
Glow Plug Cable

SHEET 9: OPTIONS

Generator Enable Harness
Head and Tail Lights Harness

SHEET 10: ENGINE TIER 4 FINAL

Engine T4F Boom Harness
Turntable Battery Kit Cable
Positive Bat to Engine Cable
Glow Plug (100A Fused) Cable
Alternator 150 Amp Cable

SHEET 11: UREA TANK/ SUPPLY MODULE CRIBBING OPTION ALERT BEACON OPTION GEN 2 PLAT INTERFACE

Urea Tank Harness
Cribbing Harness
Gen 2 Plat Interface Harness

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

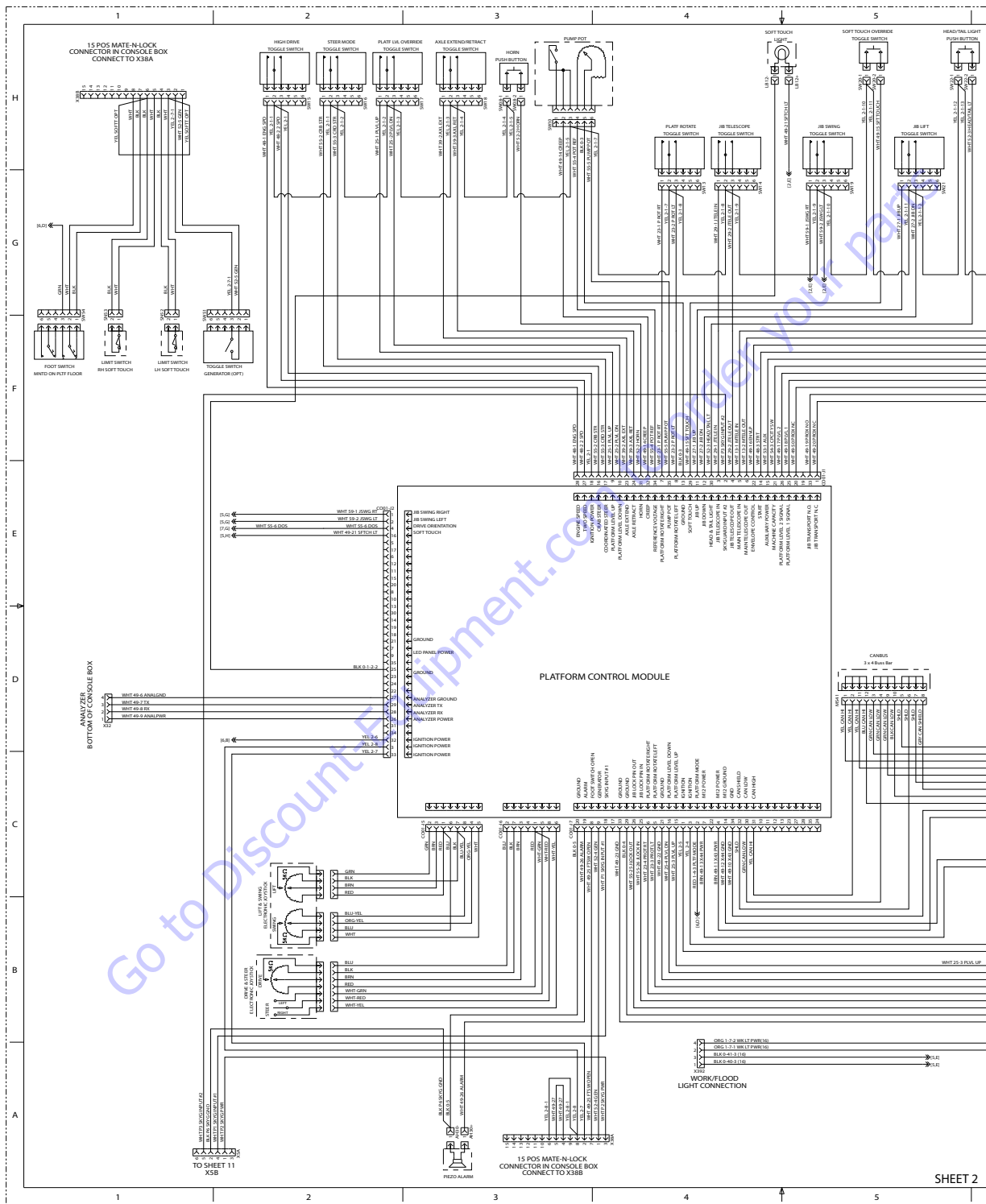


Figure 7-95. Electrical Schematic - Sheet 2 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

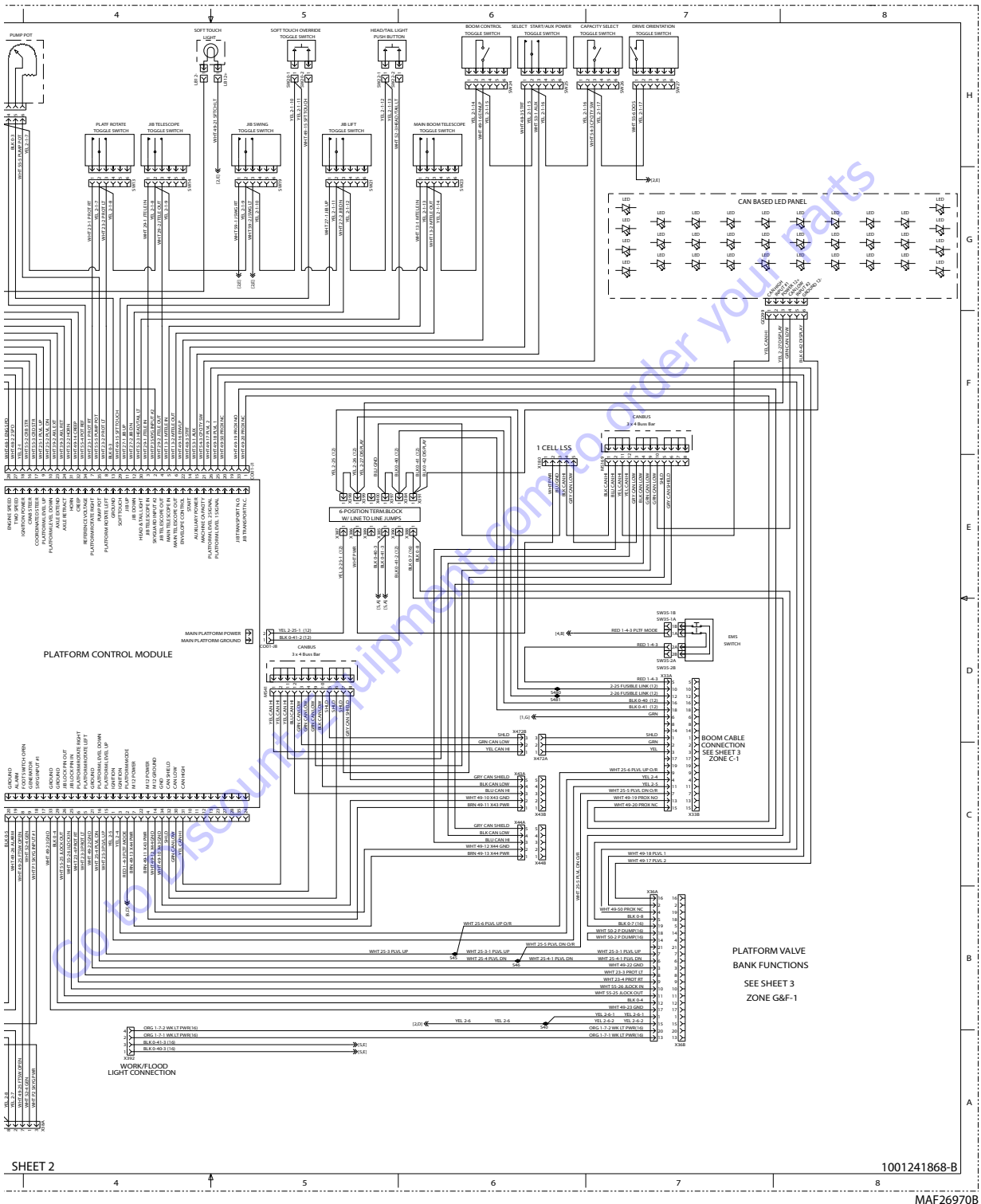


Figure 7-96. Electrical Schematic - Sheet 3 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

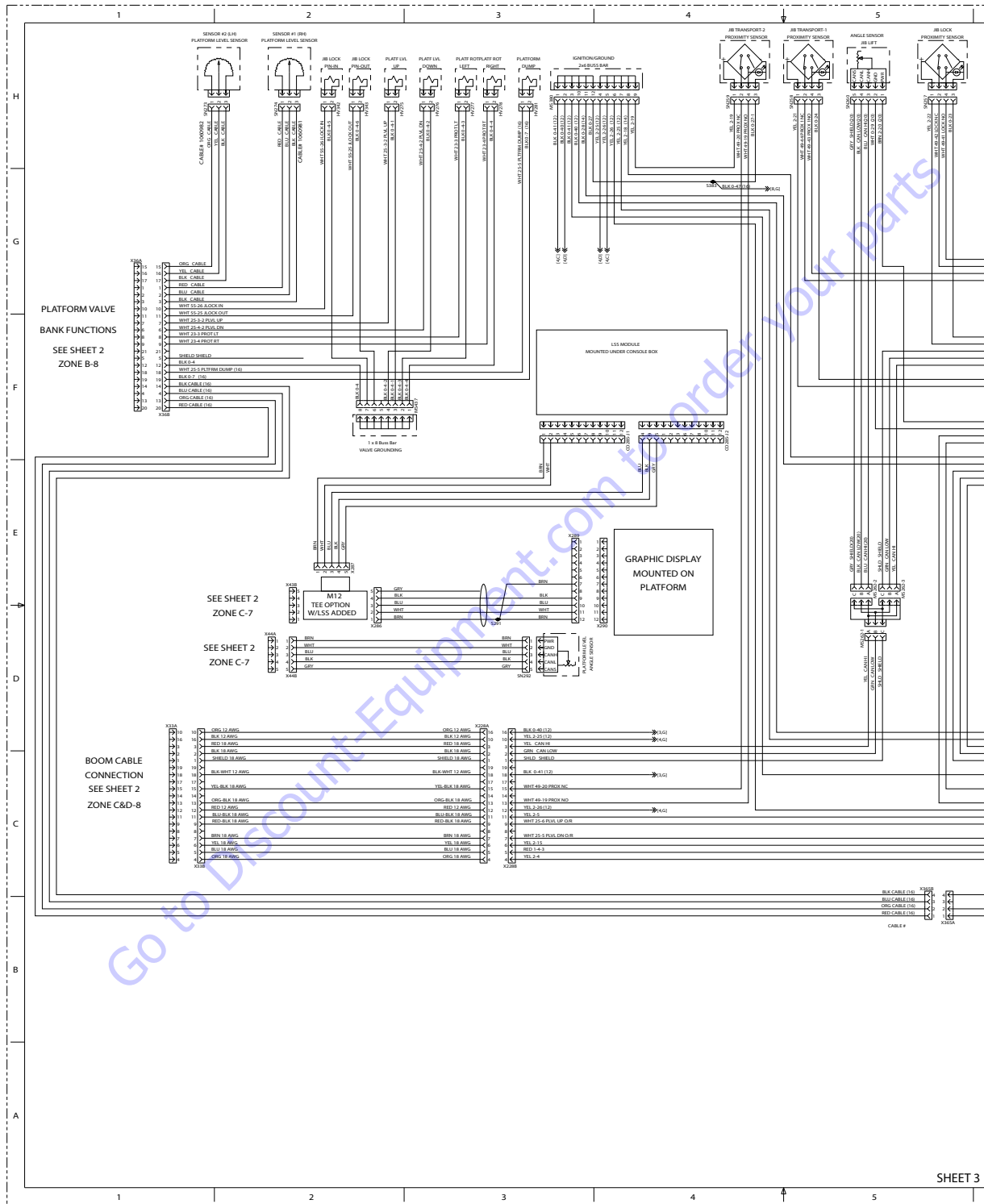


Figure 7-97. Electrical Schematic - Sheet 4 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

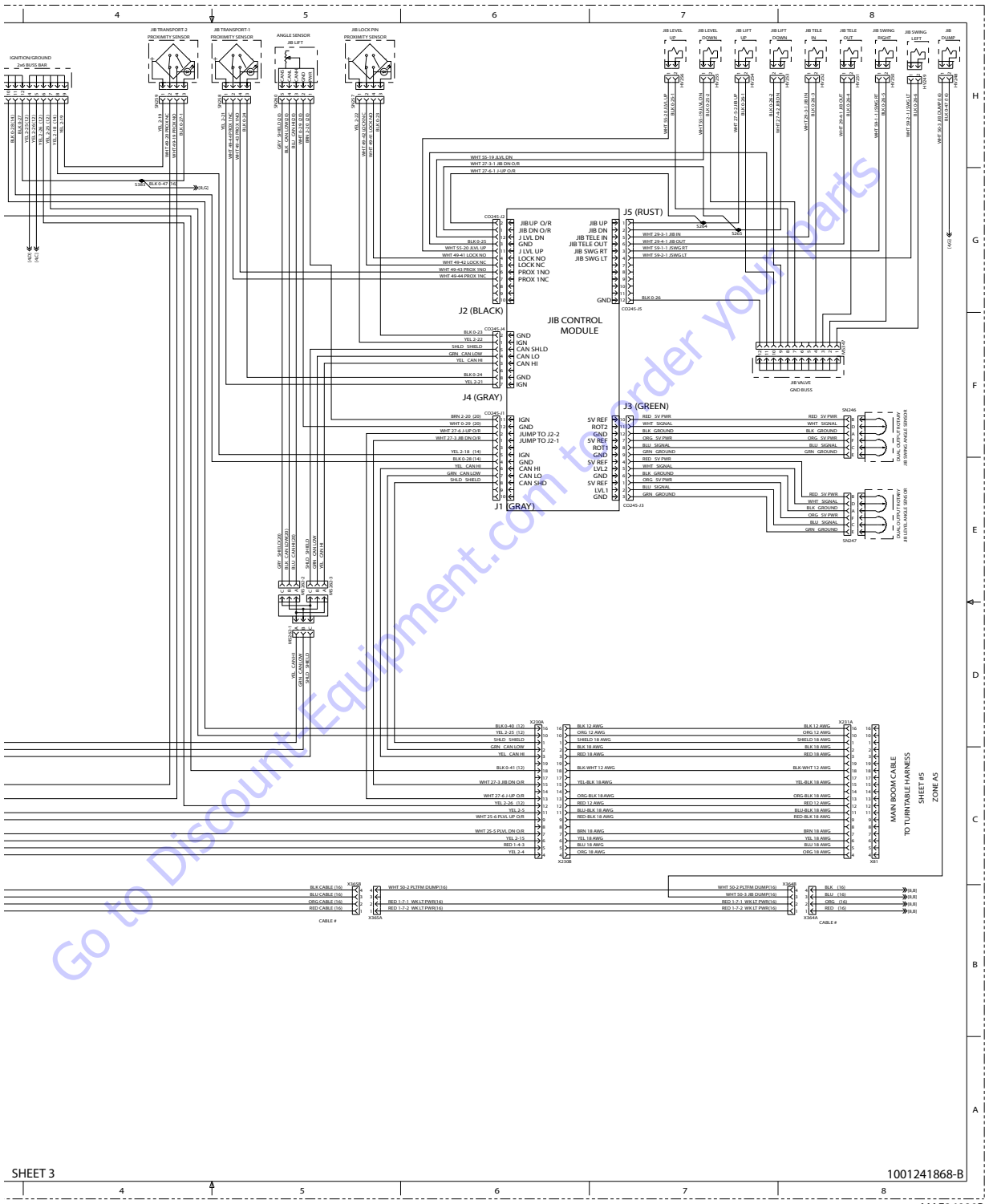


Figure 7-98. Electrical Schematic - Sheet 5 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

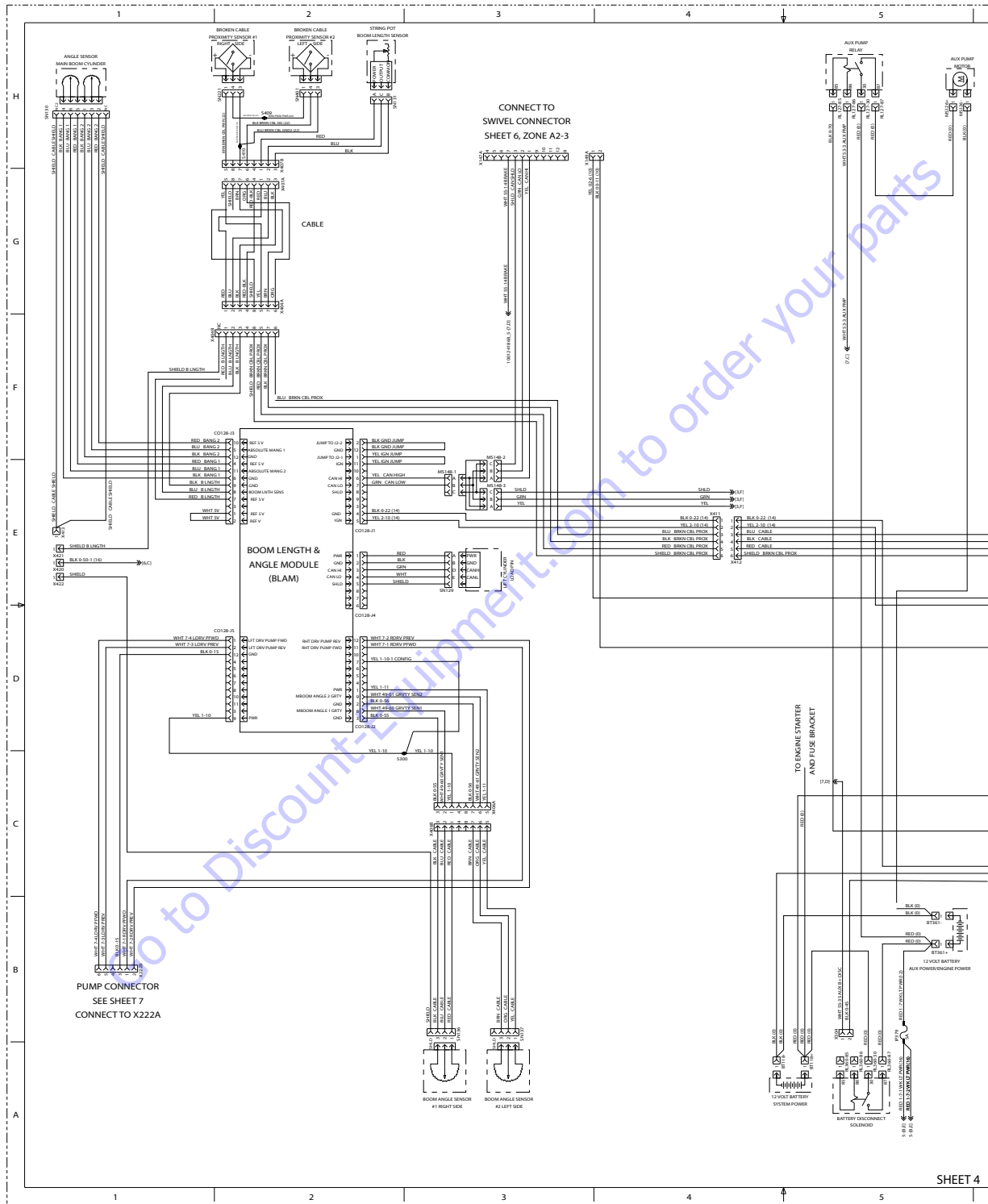


Figure 7-99. Electrical Schematic - Sheet 6 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

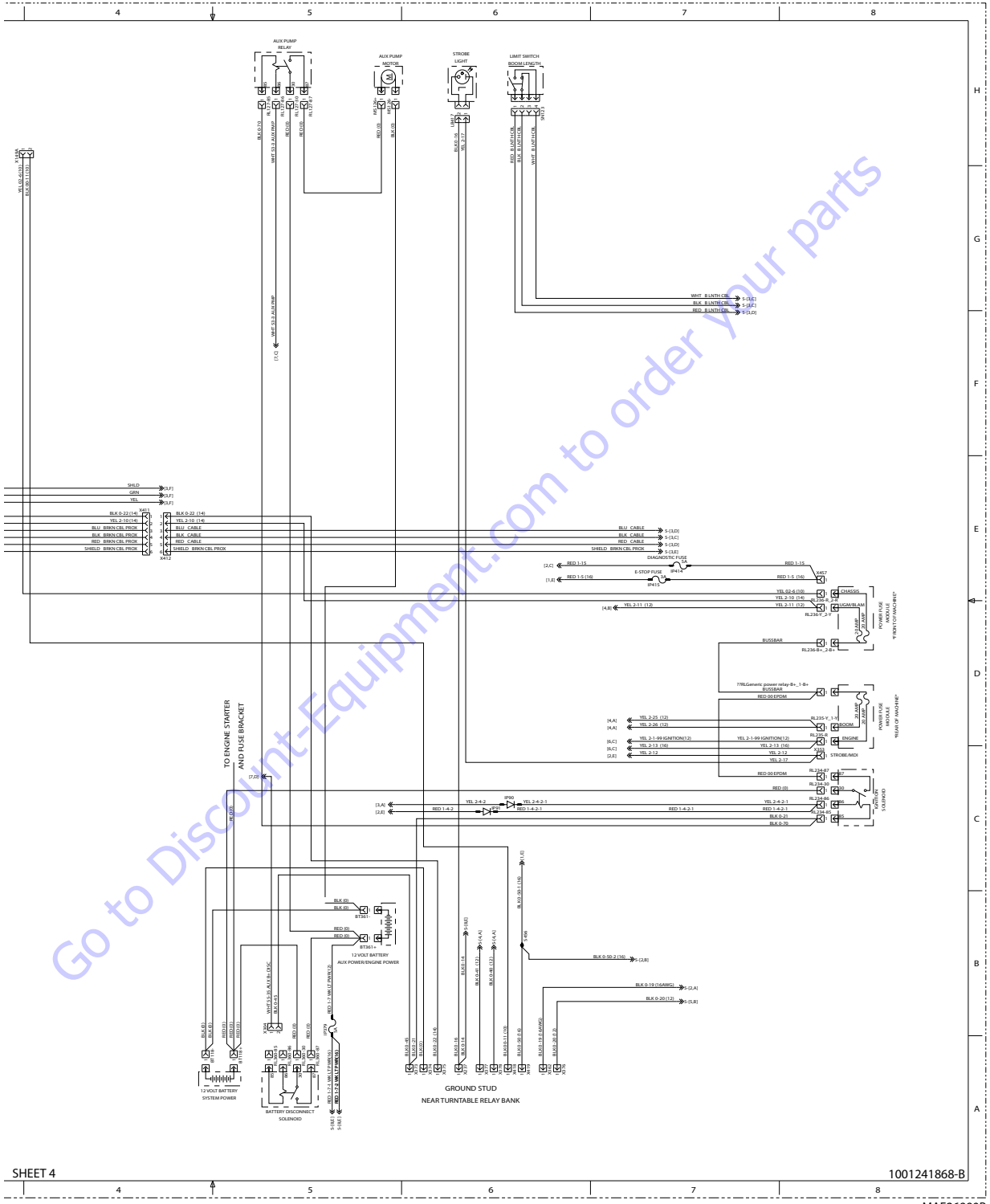


Figure 7-100. Electrical Schematic - Sheet 7 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

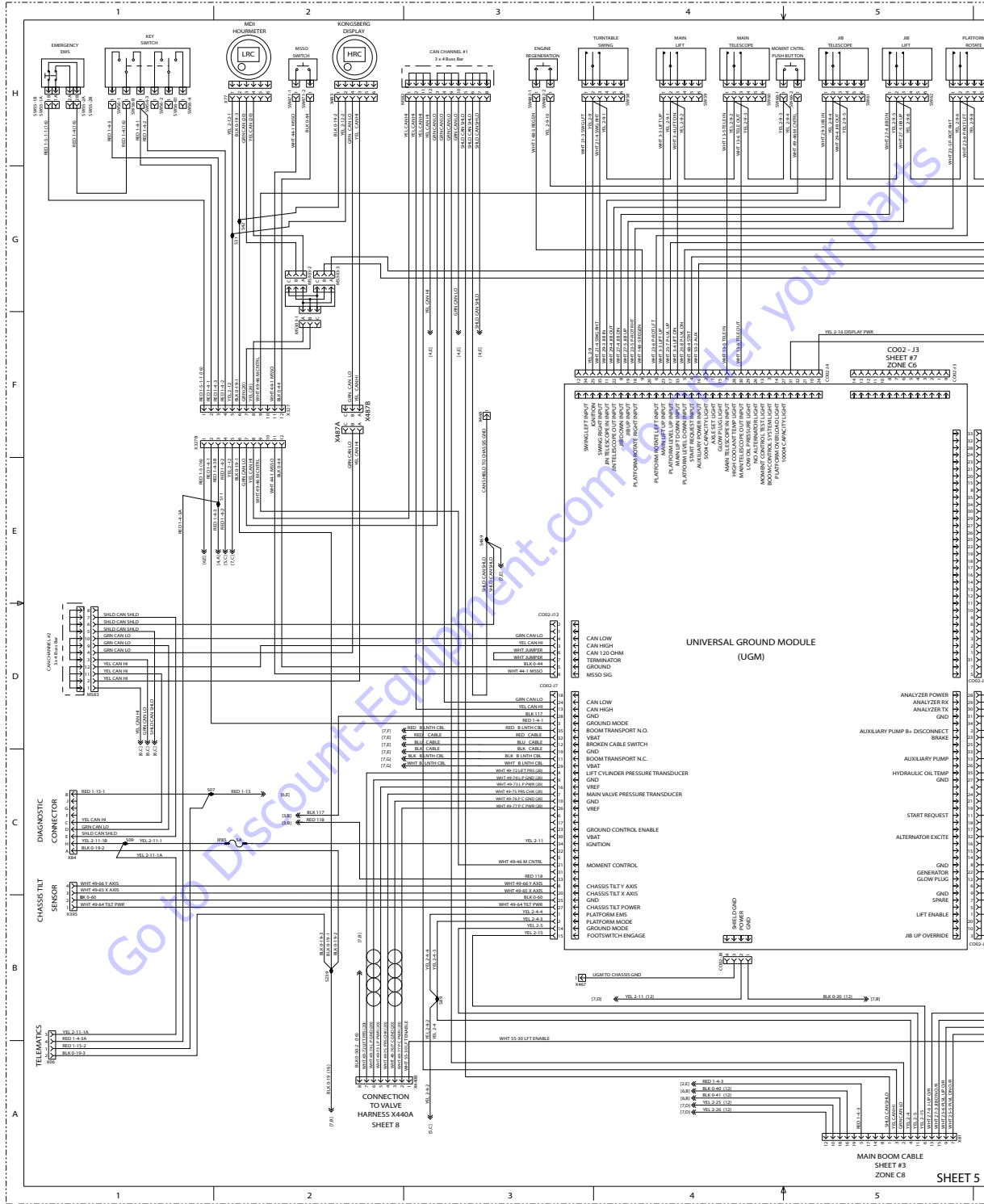


Figure 7-101. Electrical Schematic - Sheet 8 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

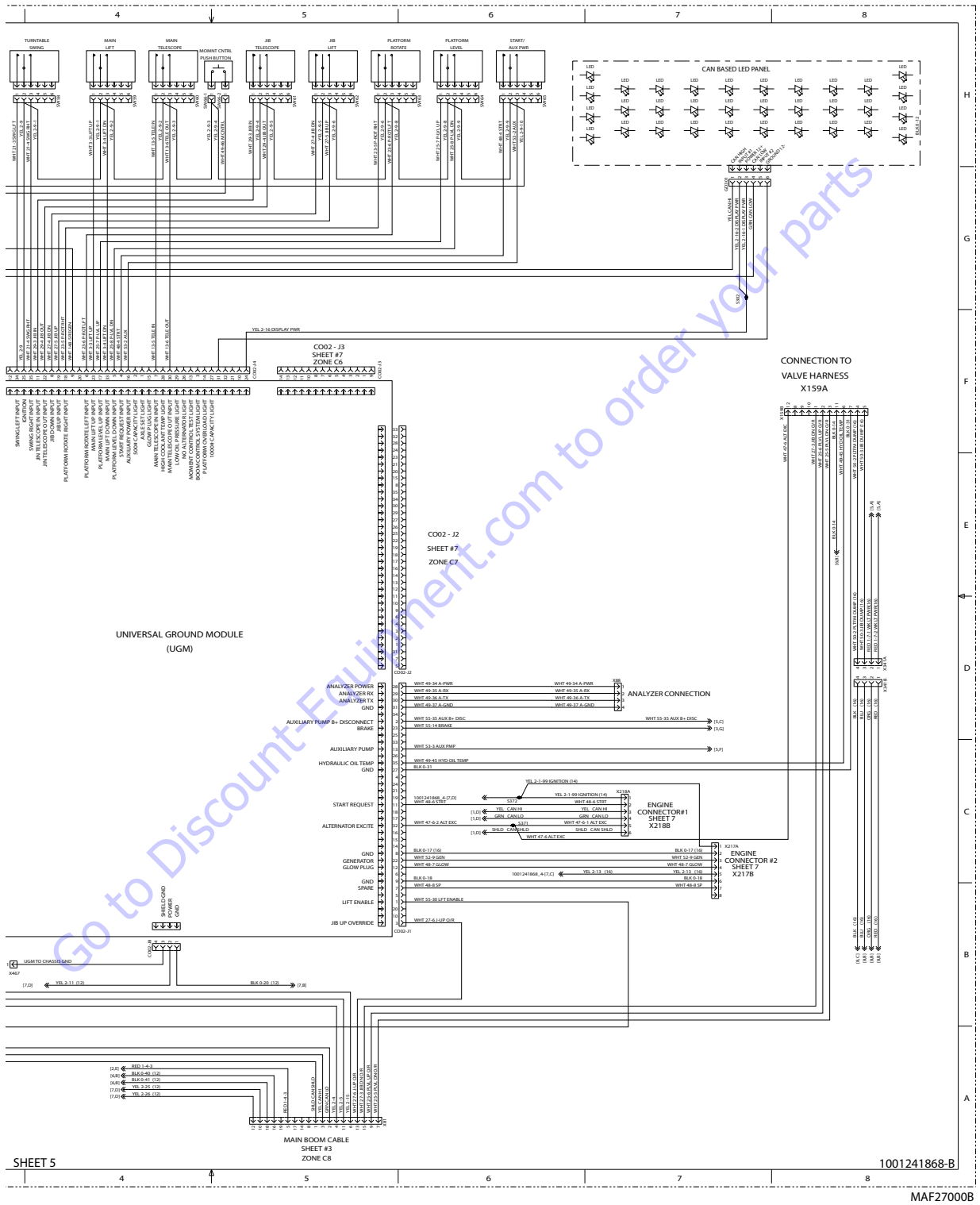


Figure 7-102. Electrical Schematic - Sheet 9 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

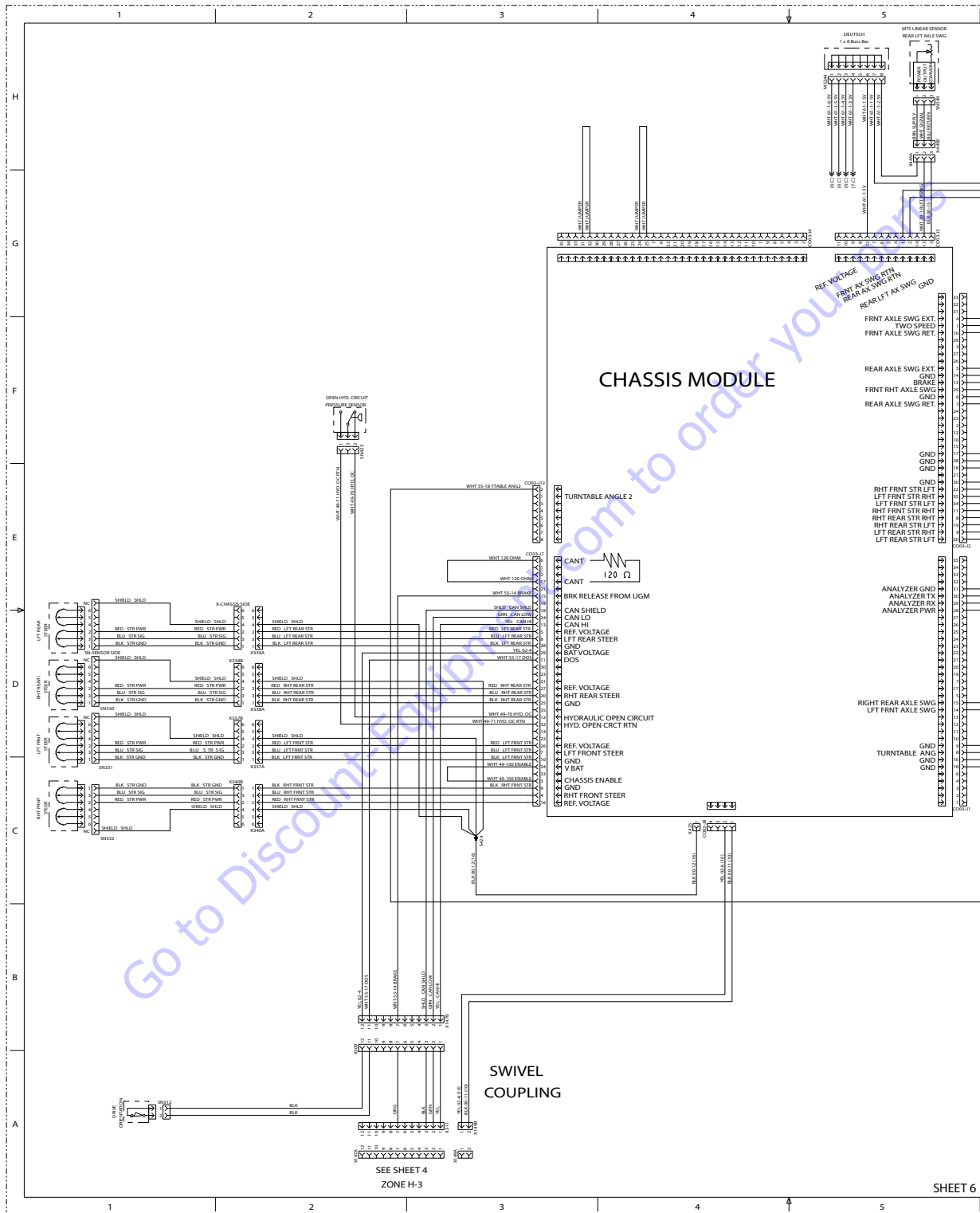


Figure 7-103. Electrical Schematic - Sheet 10 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

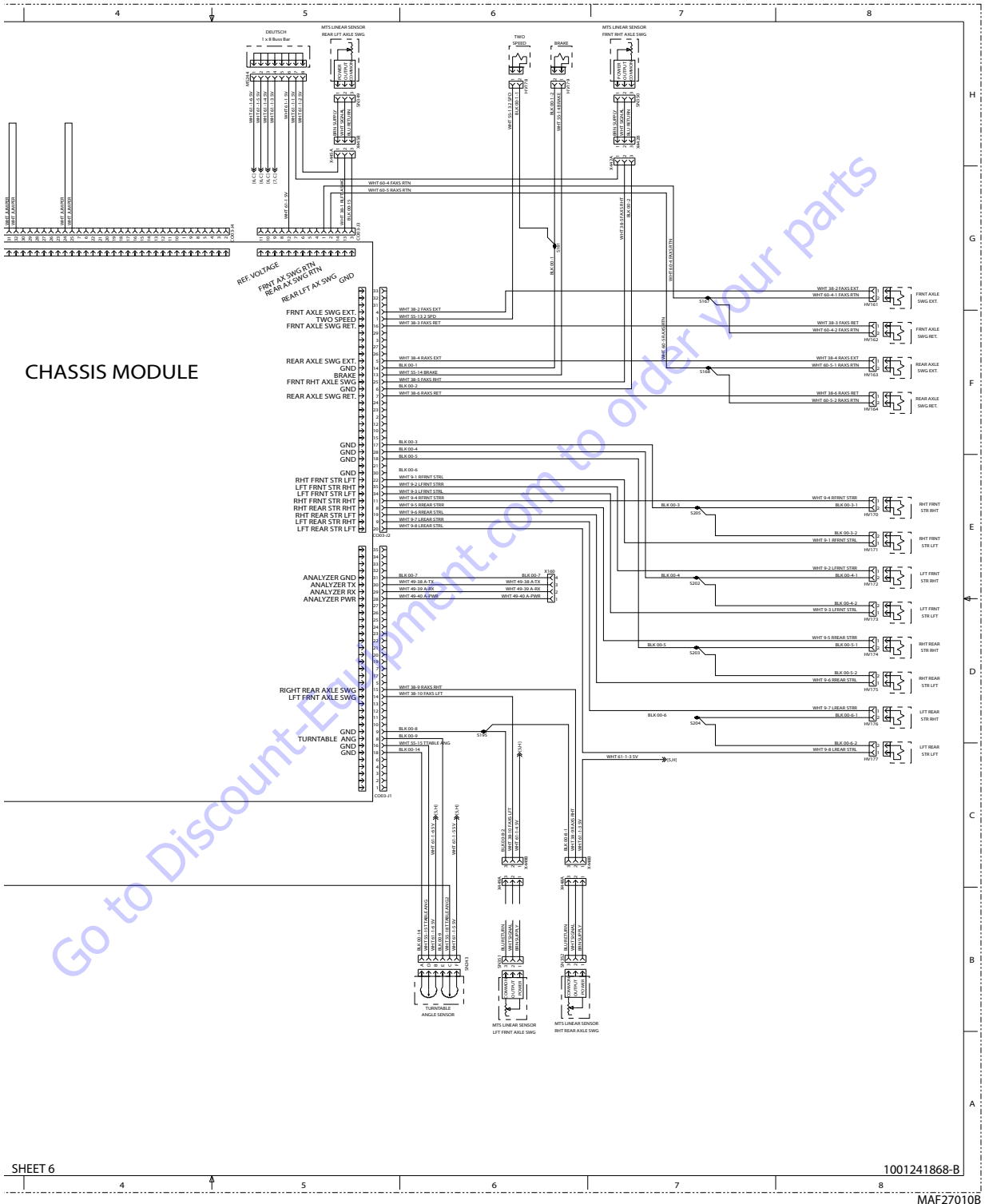


Figure 7-104. Electrical Schematic - Sheet 11 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

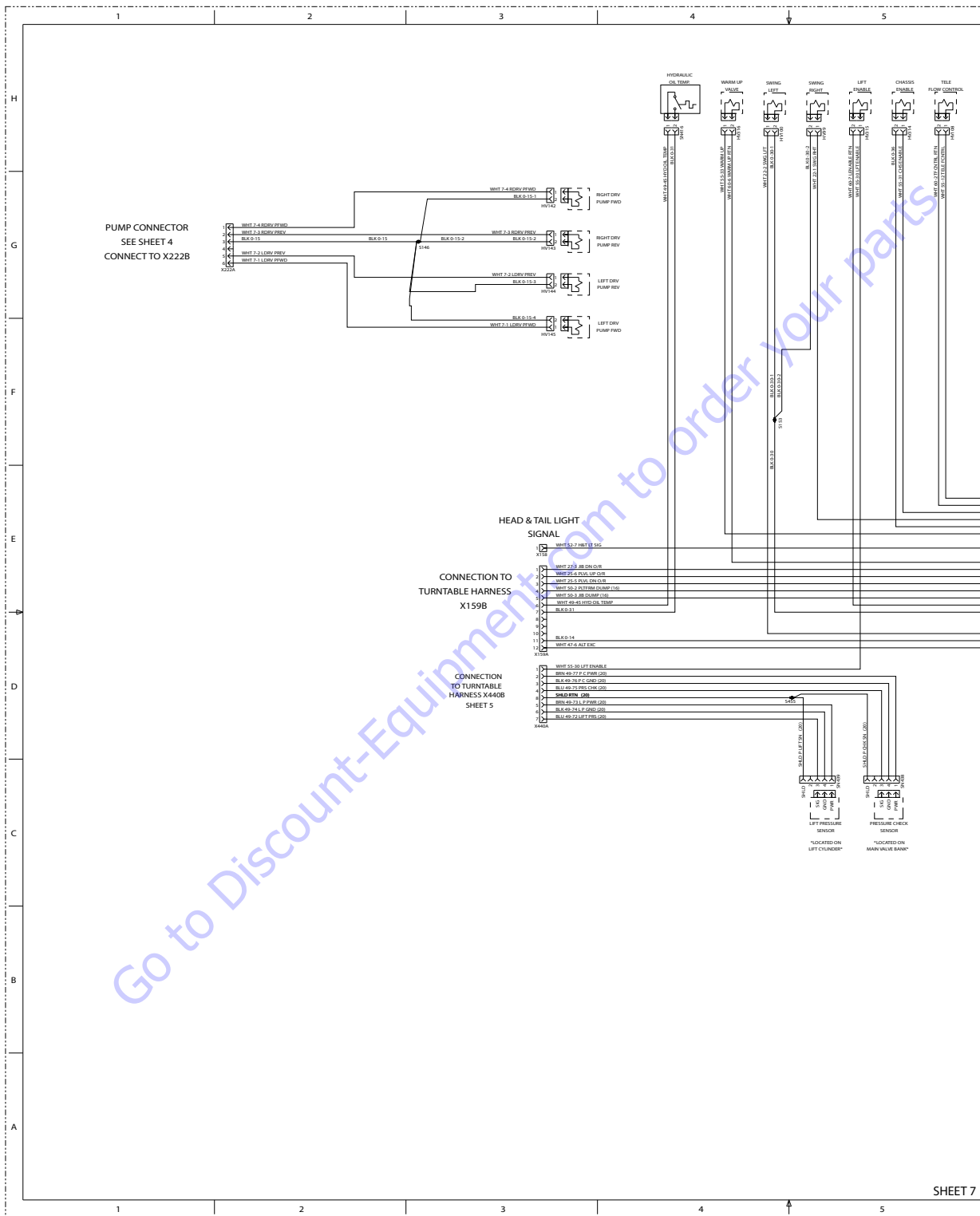


Figure 7-105. Electrical Schematic - Sheet 12 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

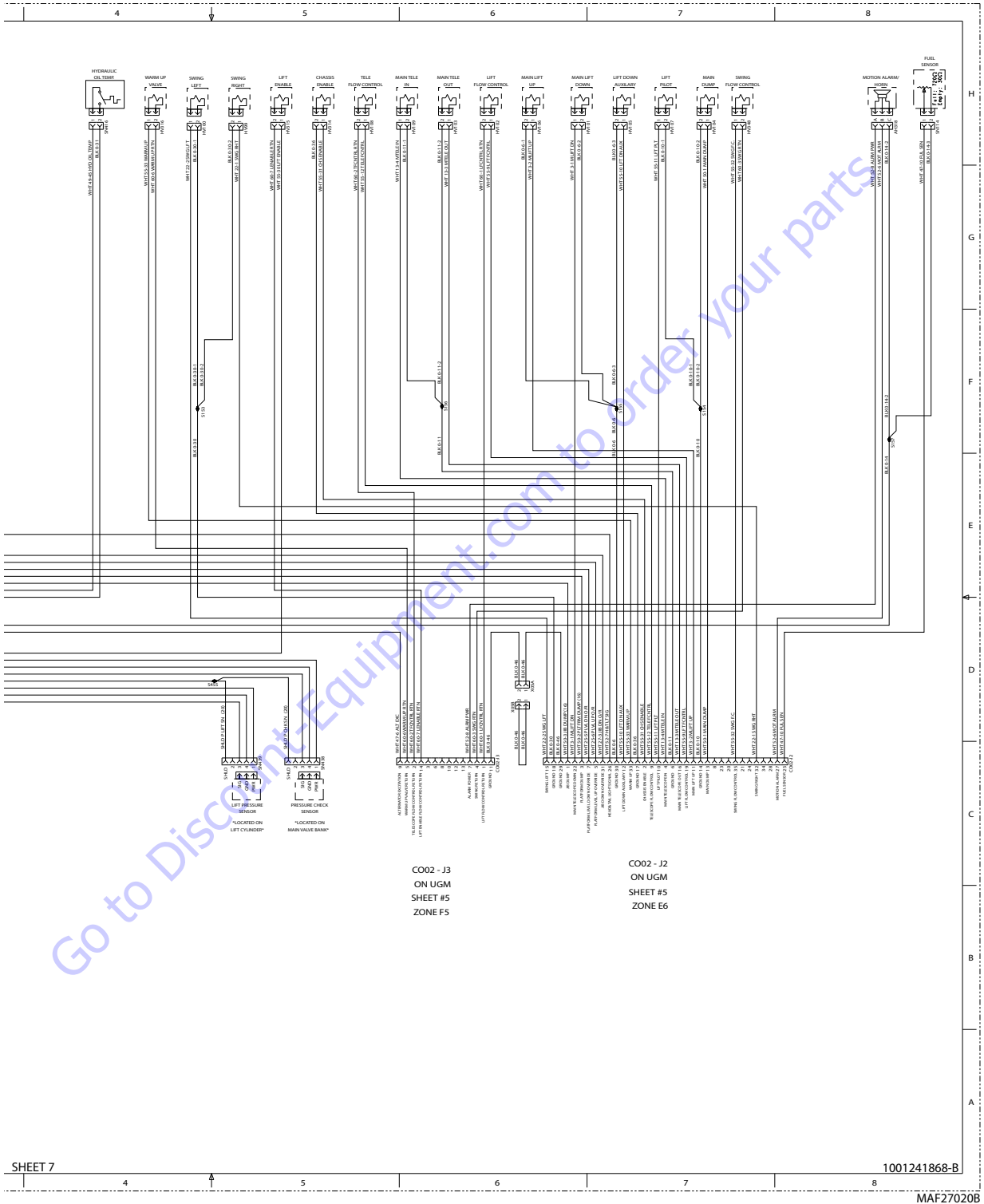


Figure 7-106. Electrical Schematic - Sheet 13 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

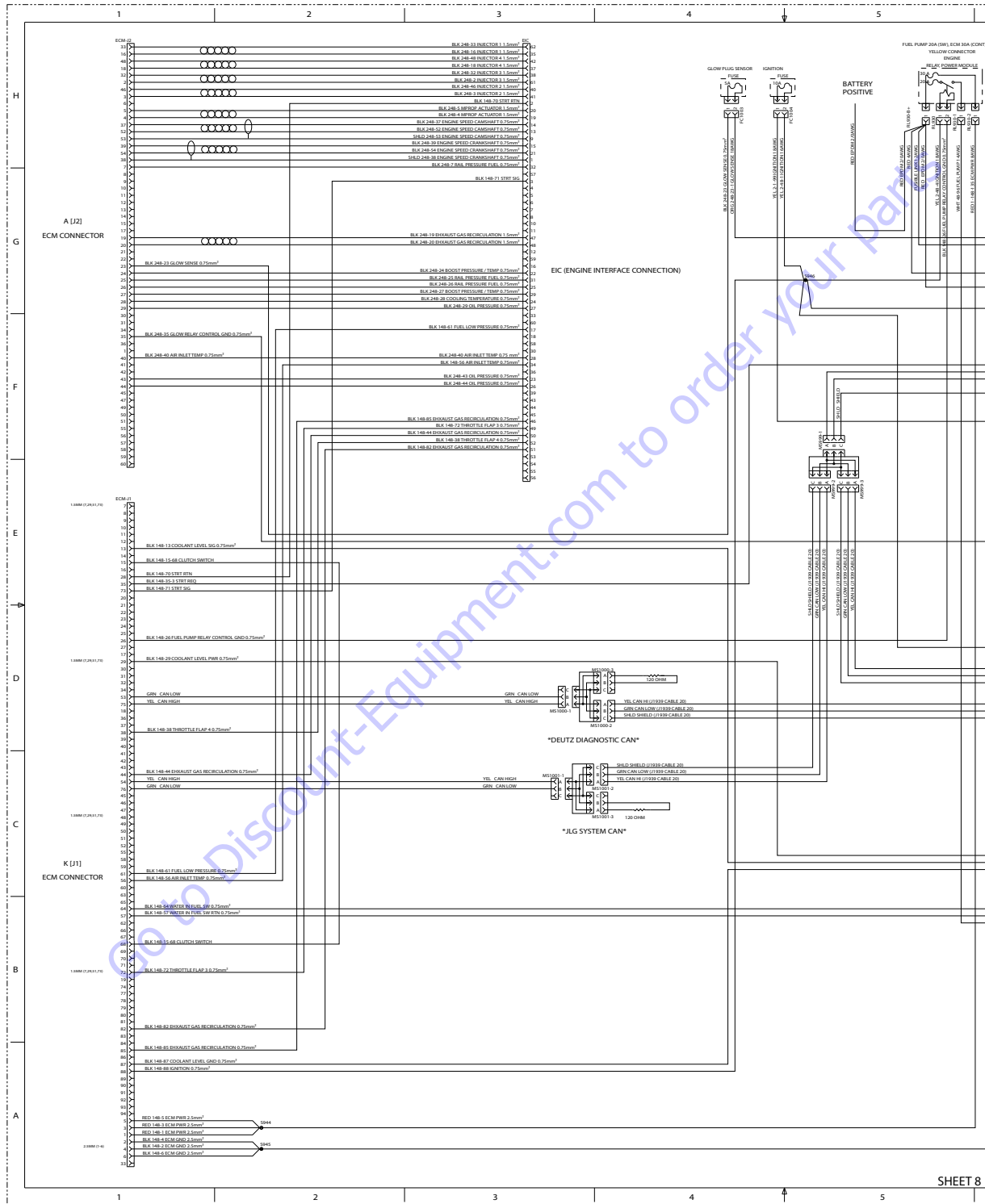


Figure 7-107. Electrical Schematic - Sheet 14 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

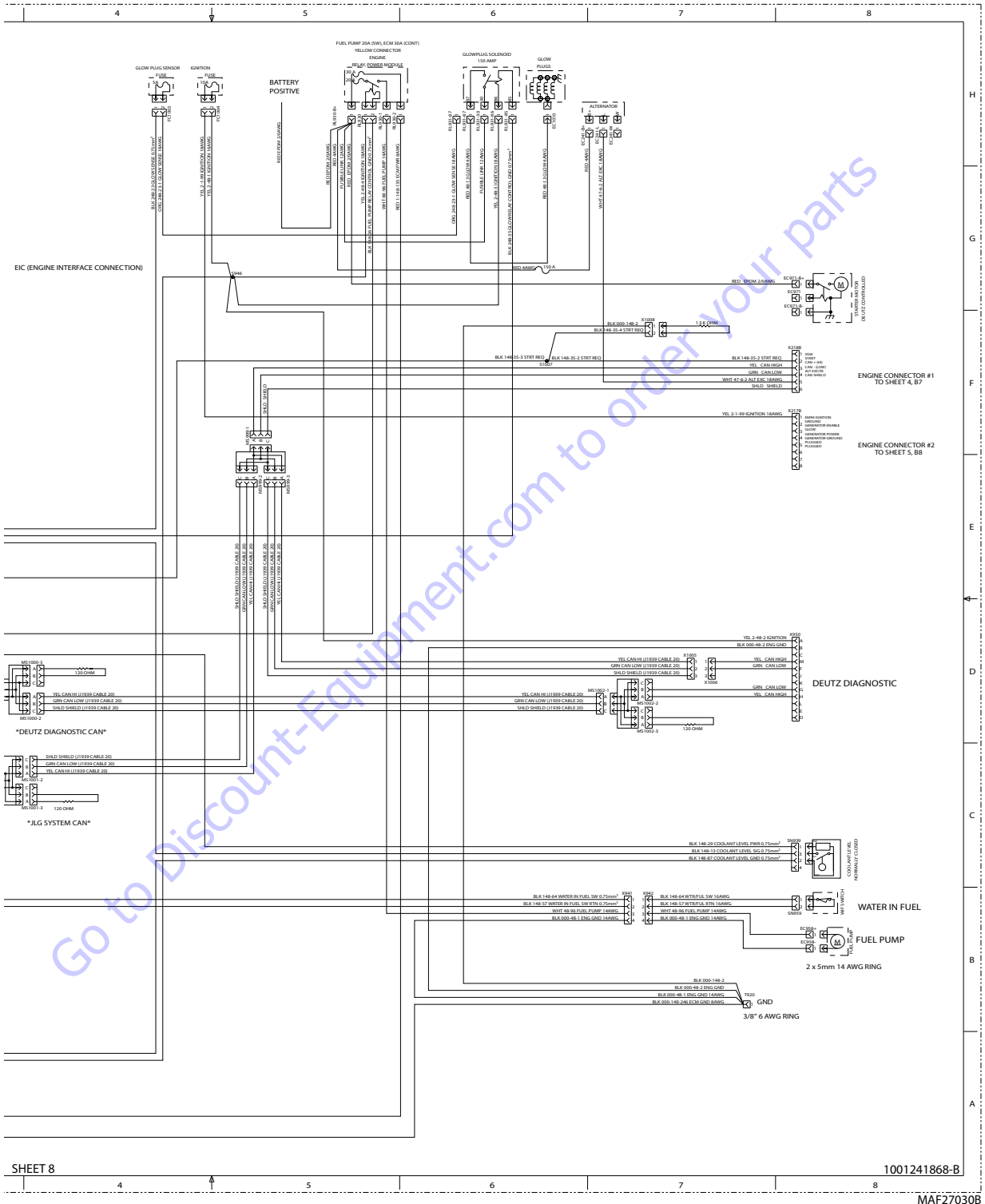


Figure 7-108. Electrical Schematic - Sheet 15 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS

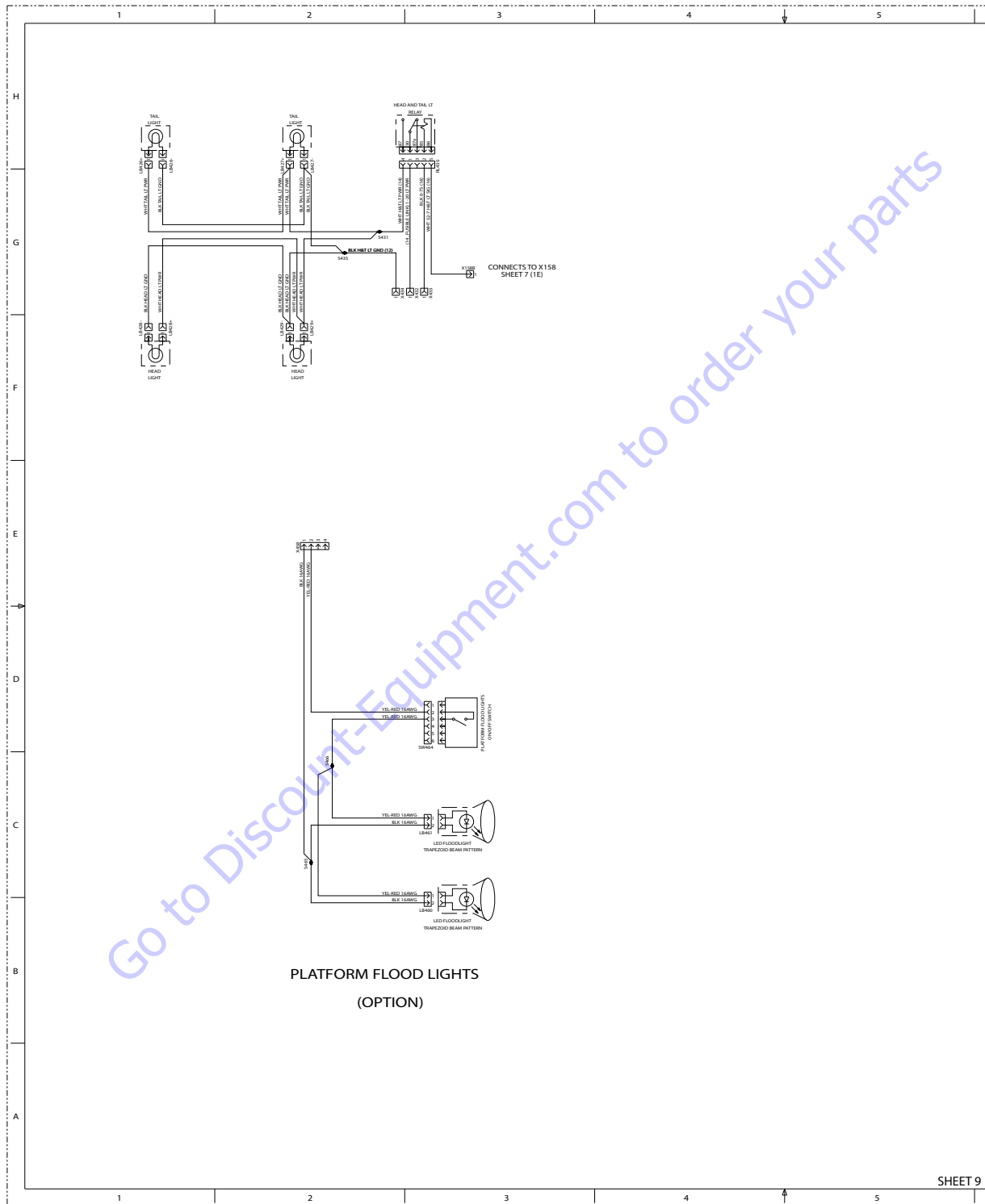


Figure 7-109. Electrical Schematic - Sheet 16 of 21

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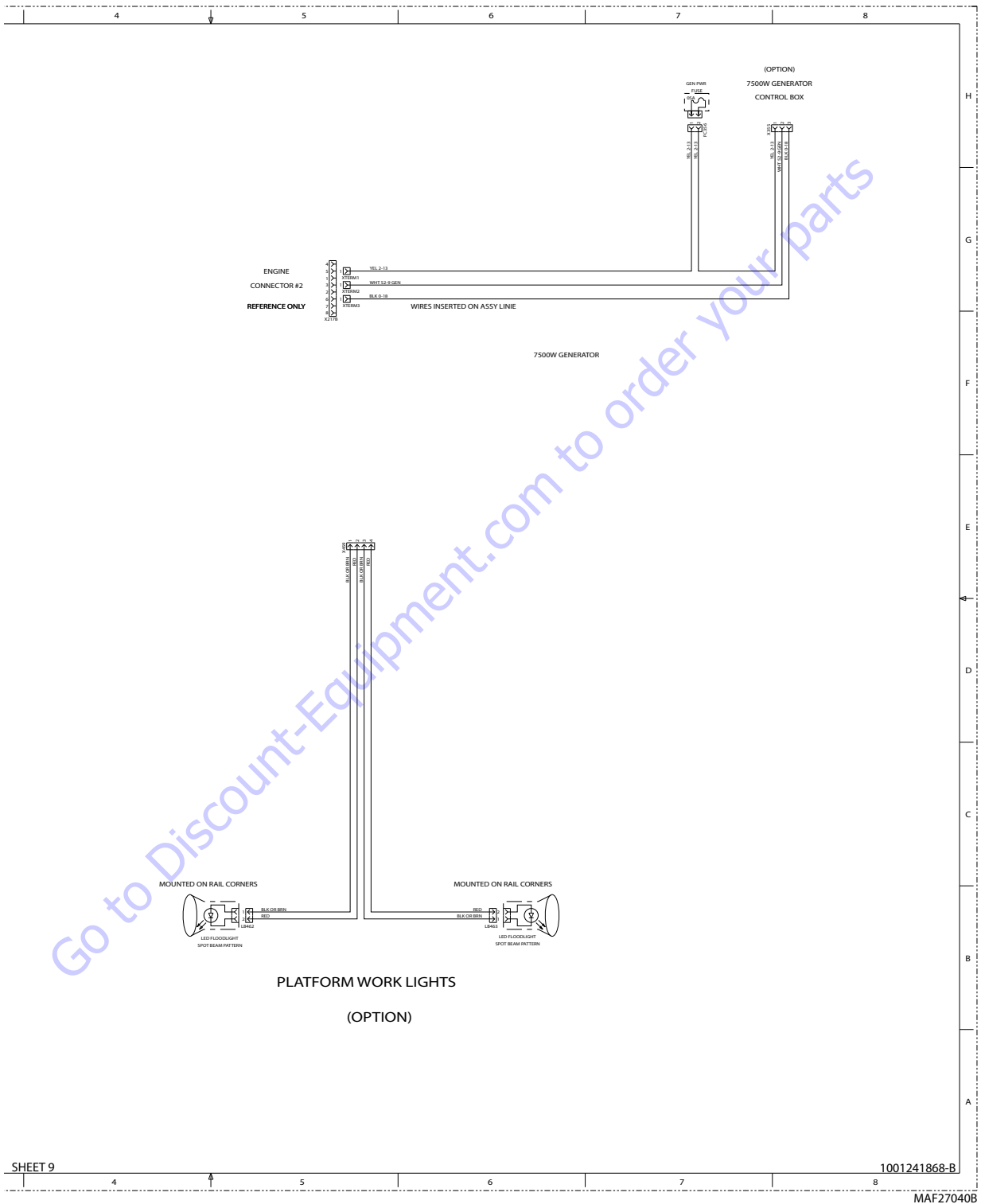


Figure 7-110. Electrical Schematic - Sheet 17 of 21

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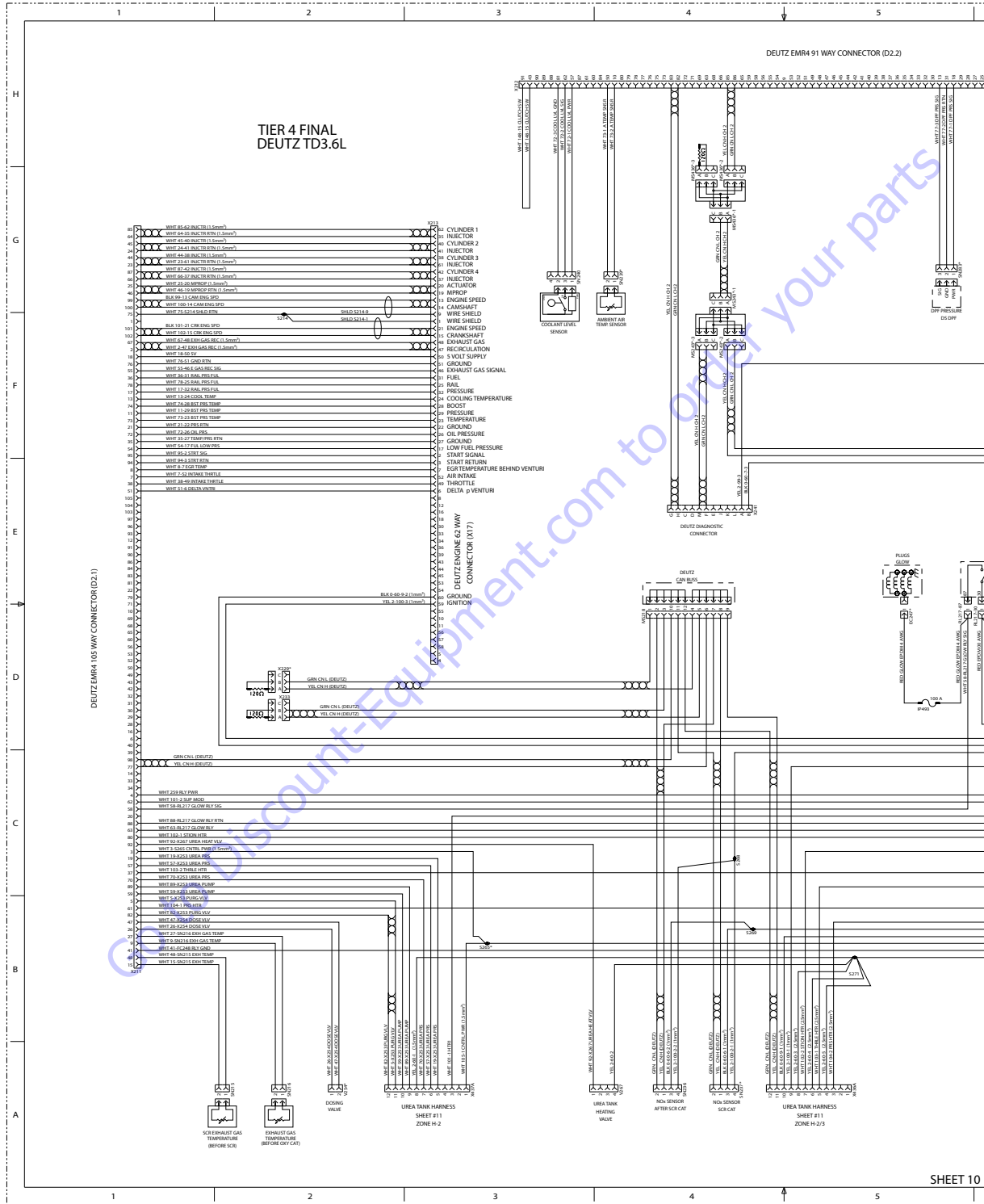
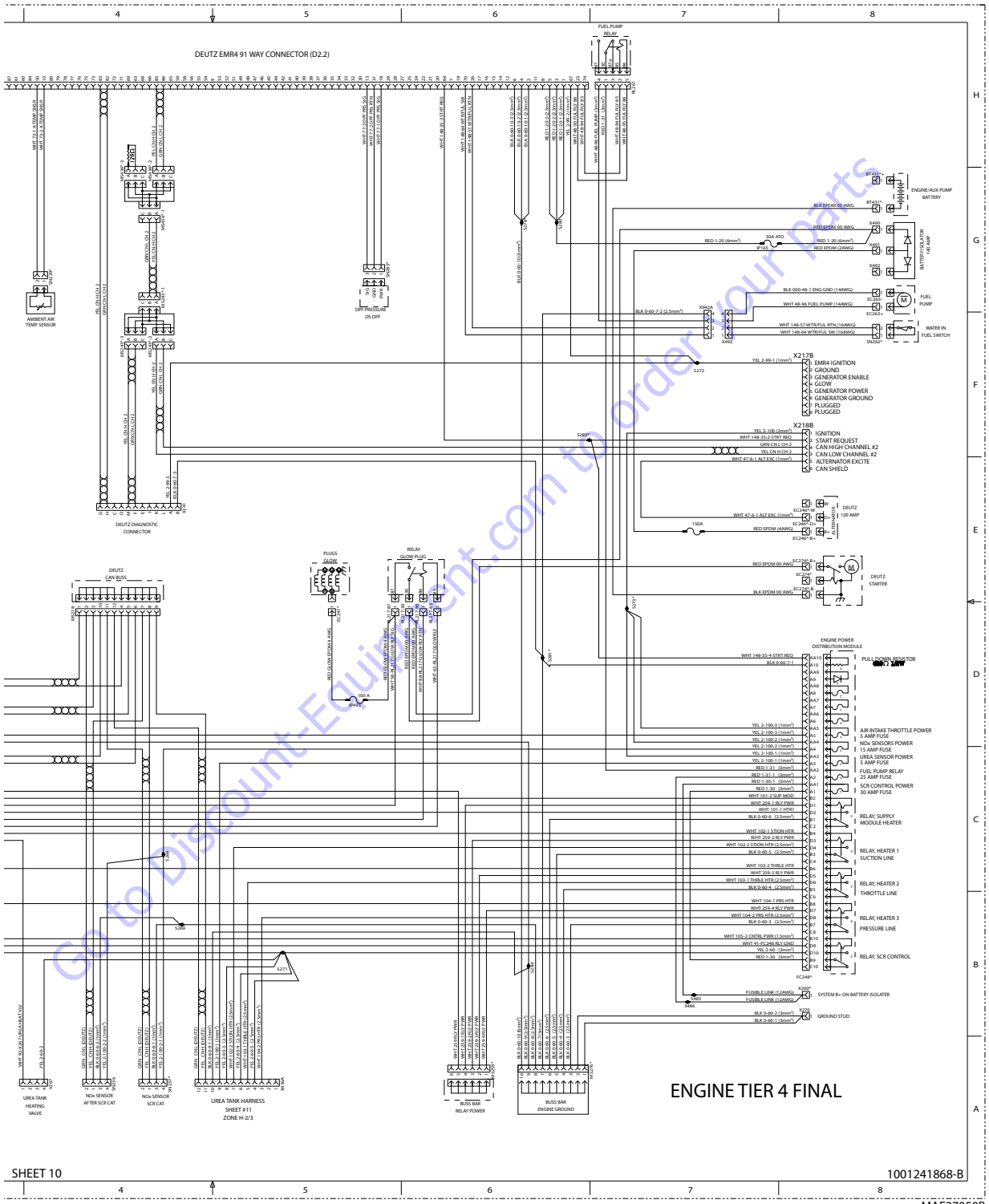


Figure 7-111. Electrical Schematic - Sheet 18 of 21

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SHEET 10 1001241868-B
 MAF27050B

Figure 7-112. Electrical Schematic - Sheet 19 of 21

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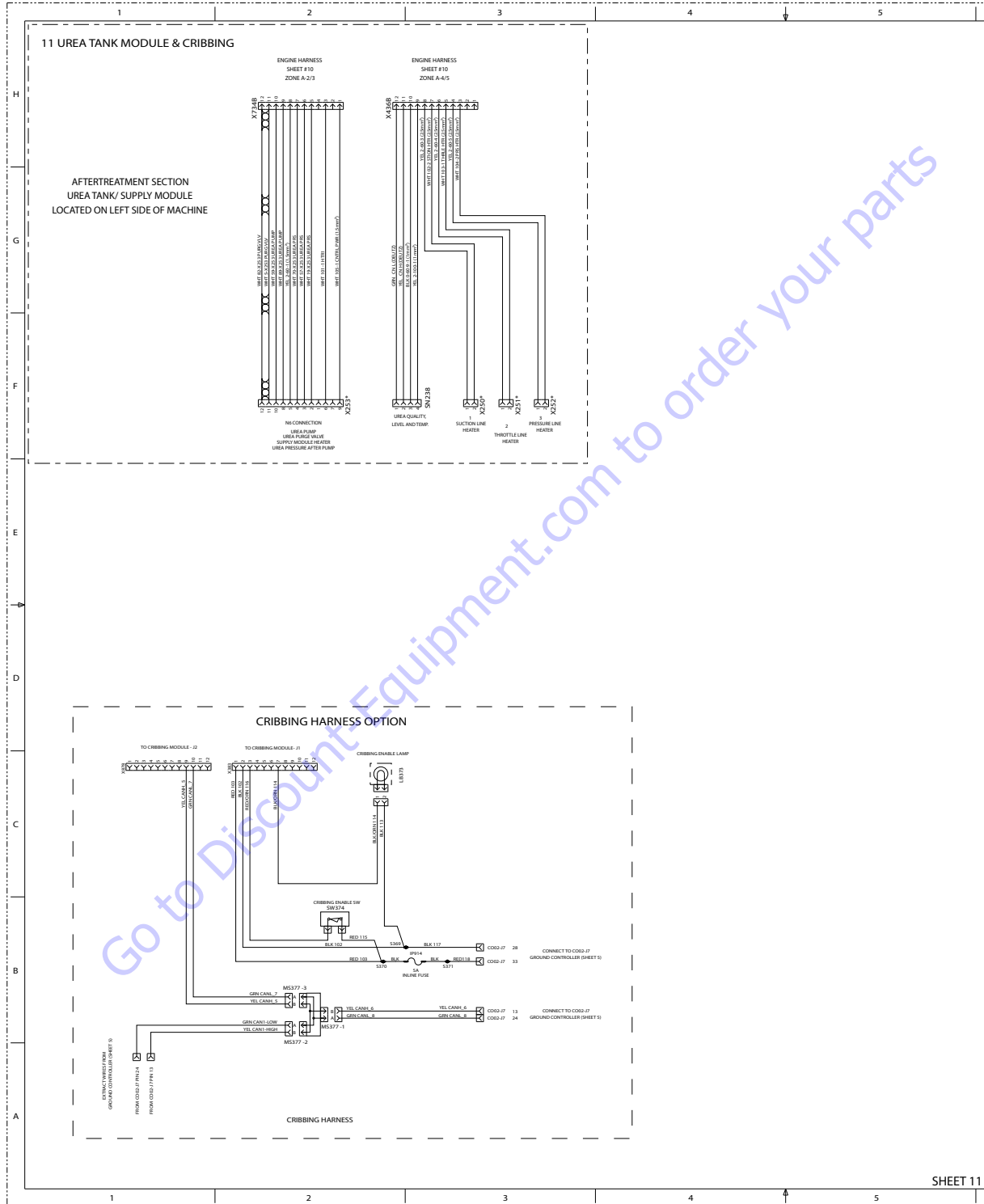
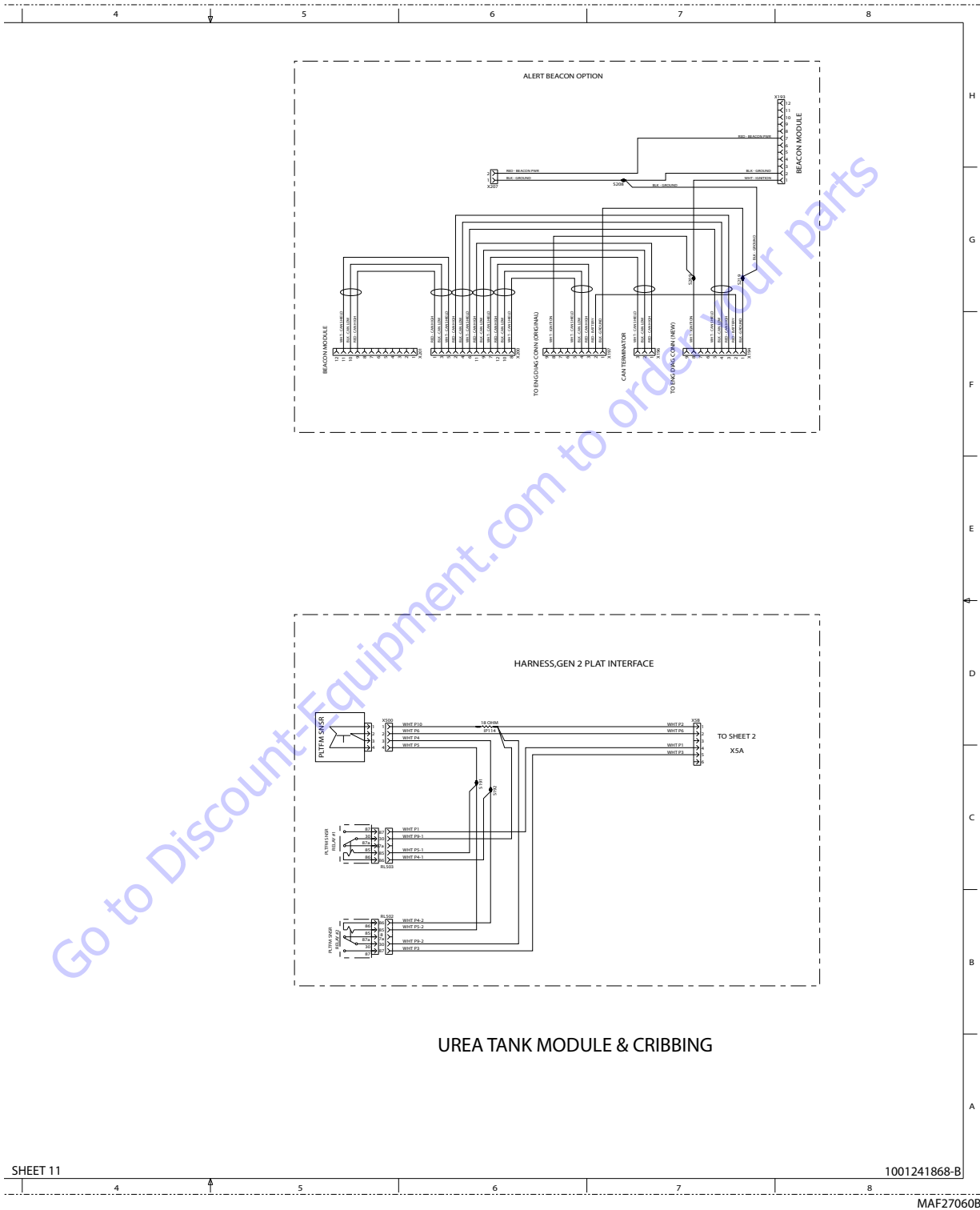


Figure 7-113. Electrical Schematic - Sheet 20 of 21

SECTION 7 - BASIC ELECTRICAL INFORMATION & ELECTRICAL SCHEMATICS



SHEET 11

1001241868-B

MAF27060B

Figure 7-114. Electrical Schematic - Sheet 21 of 21