

1	2	3	4	5	6	7	8	9	10	11	12					
PAGE #	CONTENT		COMPONENT	DESCRIPTION		SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION					
1	KEY		D	DIODE			SOCKET		BEACON		FUSED DIN RAIL TERMINAL BLOCK					
2	FUSE AND RELAY LIST		F	FUSE			PIN		WORK LIGHT		DIN RAIL TERMINAL BLOCK					
3	MAIN FUSE PANEL SCHEMATIC		FH	FUSE HOLDER			SIGNAL SOURCE		HORN BACKUP ALARM							
4	MACHINE CONTROLLER SCHEMATIC		HP	HEAT PLUG			SIGNAL DESTINATION		DC MOTOR							
5	OPERATOR STATION SCHEMATIC		HUB	CAN HUB			BUSBAR		HYDROSTATIC DRIVE PUMP							
6	TELEMATICS SCHEMATIC		IC	INSTALLATION CONTACTOR					PERMANENT MAGNET AC GENERATOR							
7	ENGINE SCHEMATIC		J	RTD CONNECTOR			GENERATOR DISCONNECT SWITCH		PE DISTRIBUTION BLOCK		DIN RAIL PLUGGABLE CABLE DISTRIBUTION BLOCK					
8	TRACTOR WIRING SCHEMATIC		K	RELAY			MIDGET CC FUSE HOLDER		INSTALLATION CONTACTOR							
9	VALVE STACK SCHEMATIC		NS	NEUTRAL SAFETY SWITCH			3-WAY CAN SPLITTER		6-WAY CAN/POWER SPLITTER		6-WAY CAN SPLITTER					
10	GENERATOR CONTROL BOX SCHEMATIC		P	SOCKET CONNECTOR												
11	SCREED MAIN SCHEMATIC		PJ	FUSE PANEL POWER DISTRIBUTION												
12	SCREED EXTENTION SCHEMATIC		QD	QUICK DISCONNECT			⚠ DANGER ELECTROCUTION HAZARD THIS UNIT REQUIRES VERY HIGH VOLTAGE WHEN OPERATING. DO NOT OPEN THE BOX WHEN THE ENGINE IS RUNNING. HIGH VOLTAGE WARNING, USED ON PAGES WHERE VOLTAGE EXCEEDS 30 VOLTS		/MCS.B11, MACHINE CONTROLLER SCHEMATIC, ROW B, COLUMN 11	Terminal	Wire Number	Signal Direction	Destination Sheet	Destination Grid	Cross Reference	Destination Connector and Terminal Number
13	FUSE CENTER		R	TERMINATING RESISTOR												
14	MACHINE CONTROLLER HARNESS		RD	ROTARY DISCONNECT SWITCH												
15	DASH CONTROL HARNESS		RS	TELEMATICS INTERFACE												
16	HMI AND TELEMATICS HARNESS		RT	RING TERMINAL												
17	ENGINE CONTROL HARNESS		RTD	RESISTANCE TEMPERATURE DETECTOR												
18	ENGINE DIRECT HARNESS		STOP	STOP SWITCH												
19	FUEL AND WASHDOWN HARNESS		SW	SWITCH												
20	LIGHTING AND SIGNALING HARNESS		FS	FUEL SENDER												
21	DRIVETRAIN HARNESS		TB	TERMINAL BLOCK												
22	VALVE STACK HARNESS		WG	WAGO SPLICE												
23	HEATER CONTROL HARNESS		X	PIN CONNECTOR												
24	GENERATOR CONTROL BOX		Y	SPLICE												
25	MAIN SCREED HIGH VOLTAGE HARNESS		XJ	BUSBAR												
26	EXTENTION HIGH VOLTAGE HARNESS		PE	PROTECTIVE EARTH												
			N/C	NO CONNECTION												

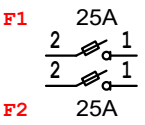
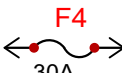
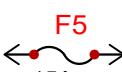
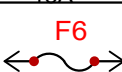
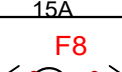
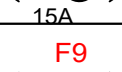
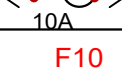
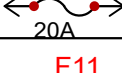
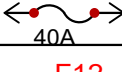
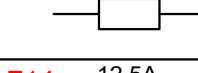
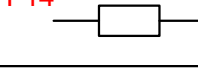
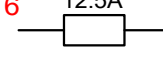
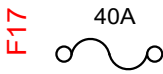
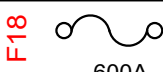


Calder Brothers Corporation
450 E Warehouse Ct
Taylors, SC 29687

Package Key

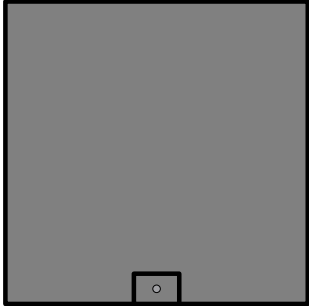
0	1/07/2025	EOM	
REV.	DATE	NAME	CHANGES
User Data 1:			User Data 2:

Sheet Name:
KEY
Sheet #:
1

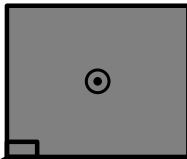
FUSE	CBC P/N	TYPE	CURRENT	CURVE TIME	FUSE SYMBOL	SHEET #	GRID
F1	020-1301	KLK	25A	FAST		10	GCBS.D9
F2	020-1301	KLK	25A	FAST		10	GCBS.E9
F3	020-1302	MIDI	70A	SLOW		7	ES.F5
F4	E0047	ATO	30A	FAST		3	MFPS.D6
F5	020-0422	ATO	15A	FAST		3	MFPS.D6
F6	E0047	ATO	30A	FAST		3	MFPS.E6
F7	020-0915	MICRO	15A	FAST		3	MFPS.G6
F8	020-0915	MICRO	15A	FAST		3	MFPS.E6
F9	020-0914	MICRO	10A	FAST		3	MFPS.F6
F10	020-0446	ATO	20A	FAST		3	MFPS.F6
F11	020-0513	ATO	40A	FAST		3	MFPS.C7
F12	020-0422	ATO	15A	FAST		3	MFPS.C6
F13	020-1258	5x20mm	12.5A	FAST		10	GCBS.E9
F14	020-1258	5x20mm	12.5A	FAST		10	GCBS.E9
F15	020-1258	5x20mm	12.5A	FAST		10	GCBS.F9
F16	020-1258	5x20mm	12.5A	FAST		10	GCBS.F9
F17	020-1419	ZCASE	40A	TIME-DELAYED		3	MFPS.E1
F18	020-1450	ZCASE	600A	TIME-DELAYED		3	MFPS.E2
F19	020-1420	ZCASE	100A	TIME-DELAYED		3	MFPS.E2

RELAY	CBC P/N	TYPE	CURRENT	FORM	NOTES	SHEET #	GRID
K1	020-1323	ISO MINI	50A	SPDT	DIODE	3	MFPS.D7
K2	020-1324	ISO ULTRA MICRO	30A	SPST N.O.	DIODE	3	MFPS.D7
K3	020-1324	ISO ULTRA MICRO	30A	SPST N.O.	DIODE	3	MFPS.E7
K4	020-1324	ISO ULTRA MICRO	30A	SPST N.O.	DIODE	3	MFPS.E7
K5	020-1324	ISO ULTRA MICRO	30A	SPST N.O.	DIODE	3	MFPS.C7
K6	020-1323	ISO MINI	50A	SPDT	DIODE	3	MFPS.F7

020-1323

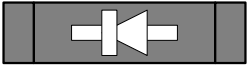


020-1324

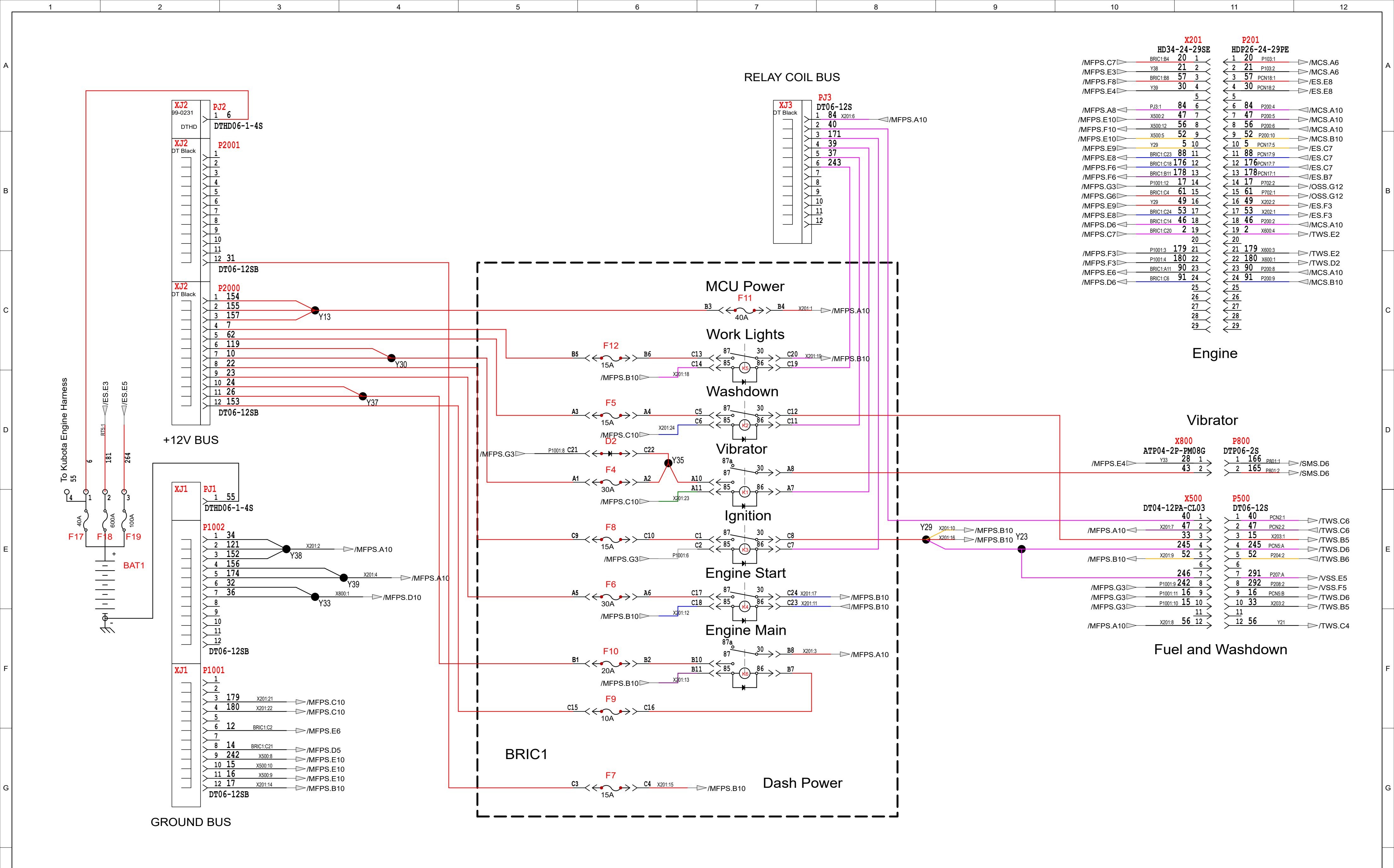


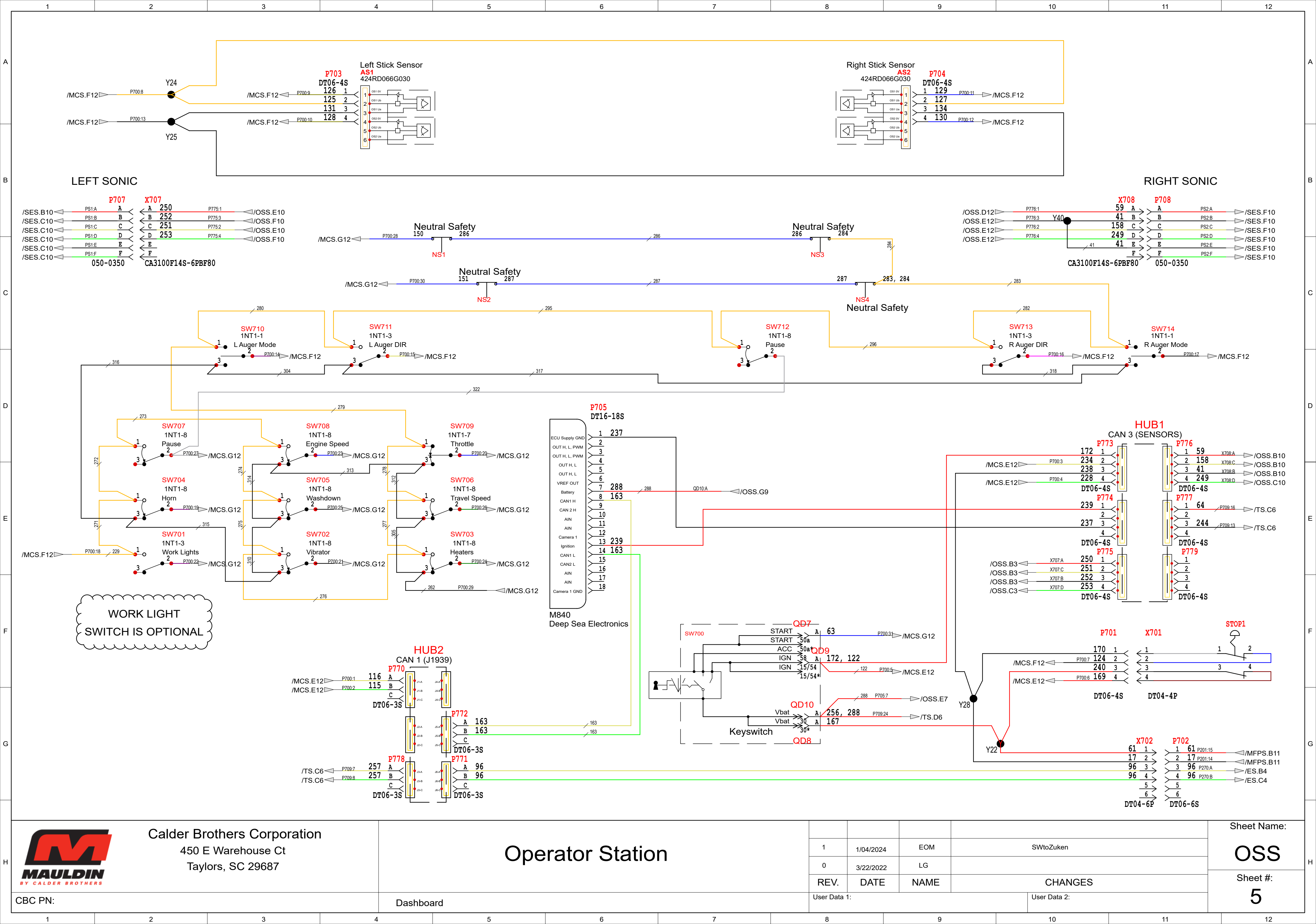
Note Keying on Bottom Side of Each Relay
Keying Will Face Down on All Relays in the Fuse Center

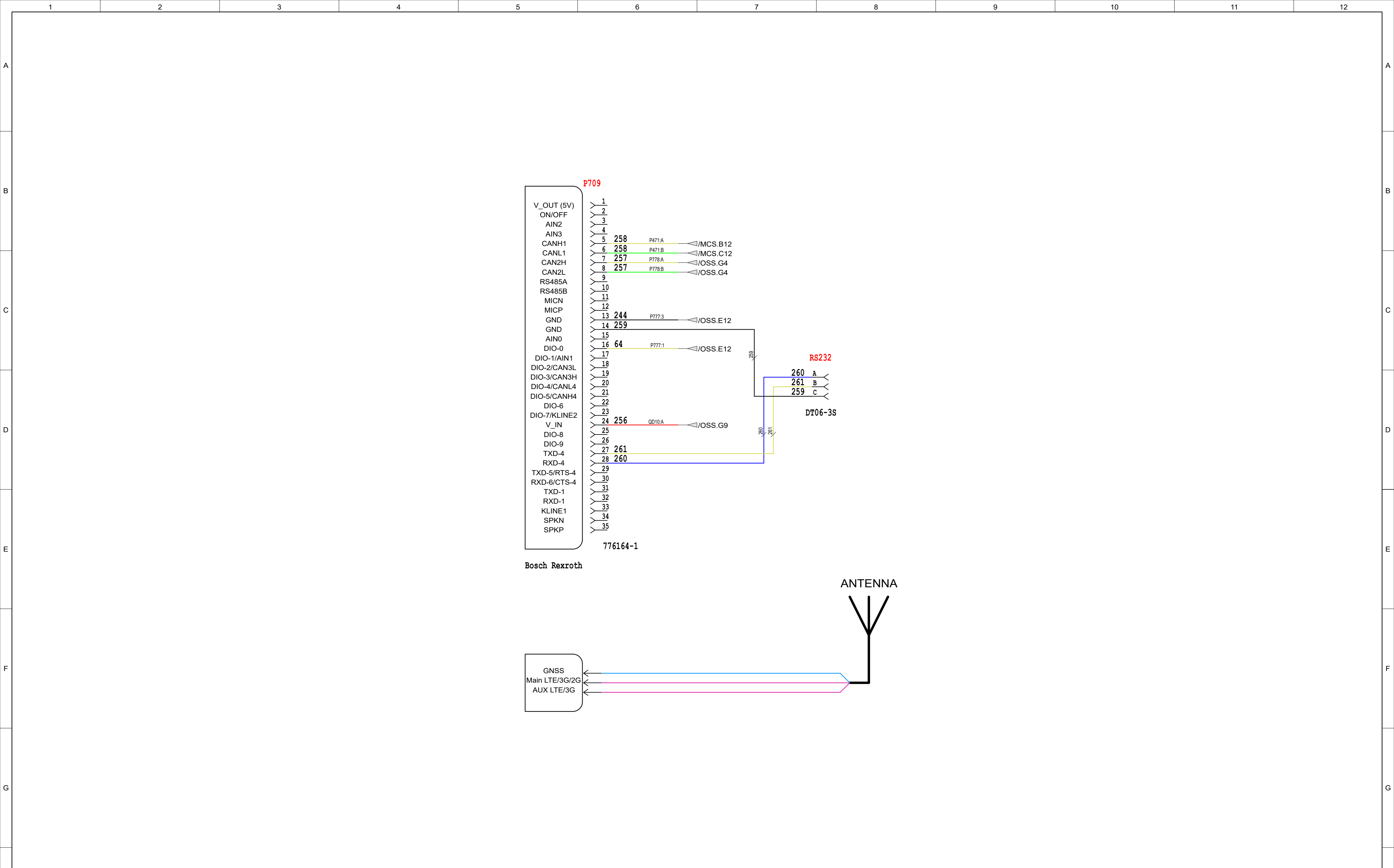
DIODE	CBC P/N	TYPE	CURRENT	SHEET #	GRID
D2	020-1287	MINI ATO	1A	3	MFPS.D6

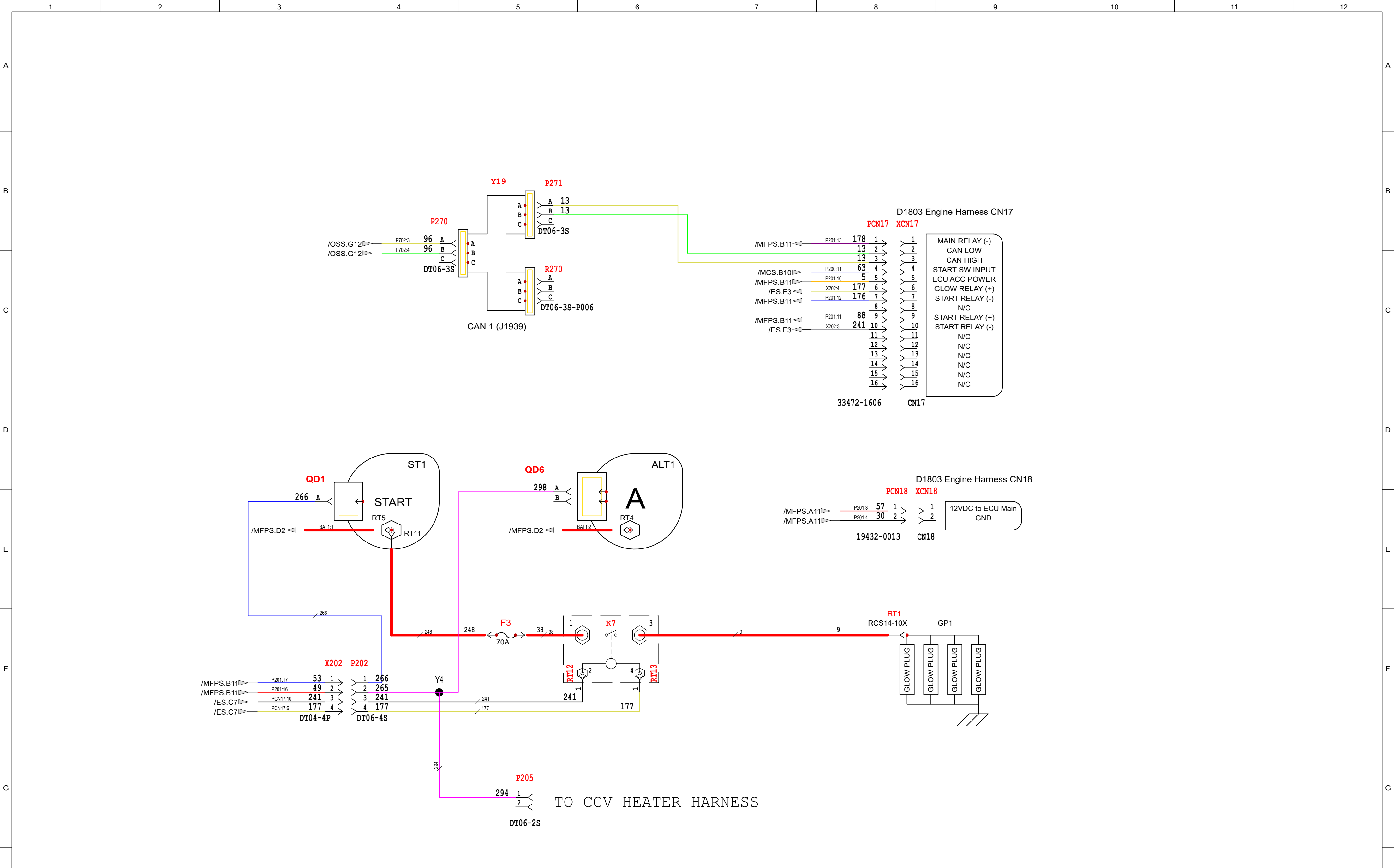


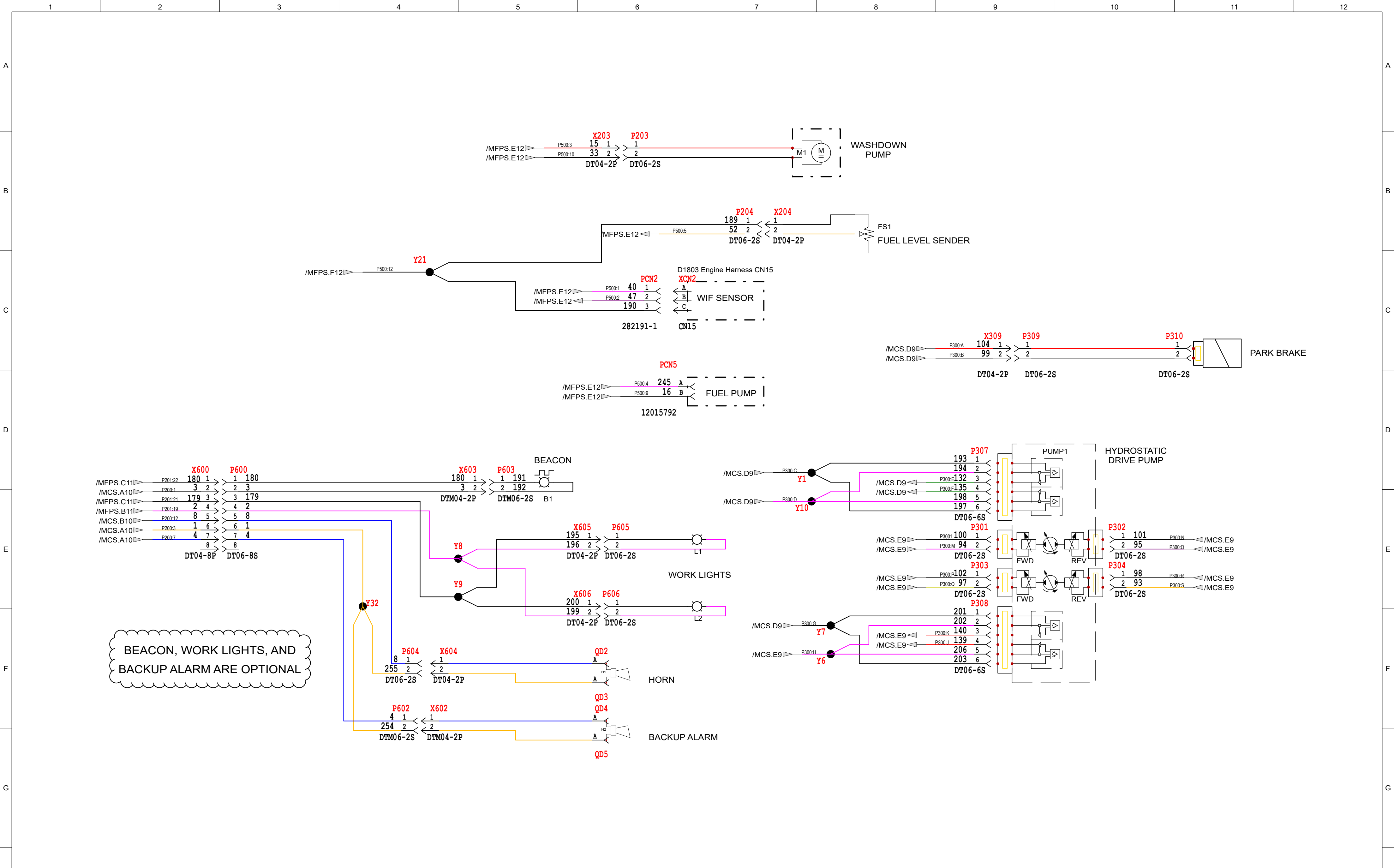
Diode Orientation Has Arrow Pointing to the Left
This is the Direction of Forward Current Flow

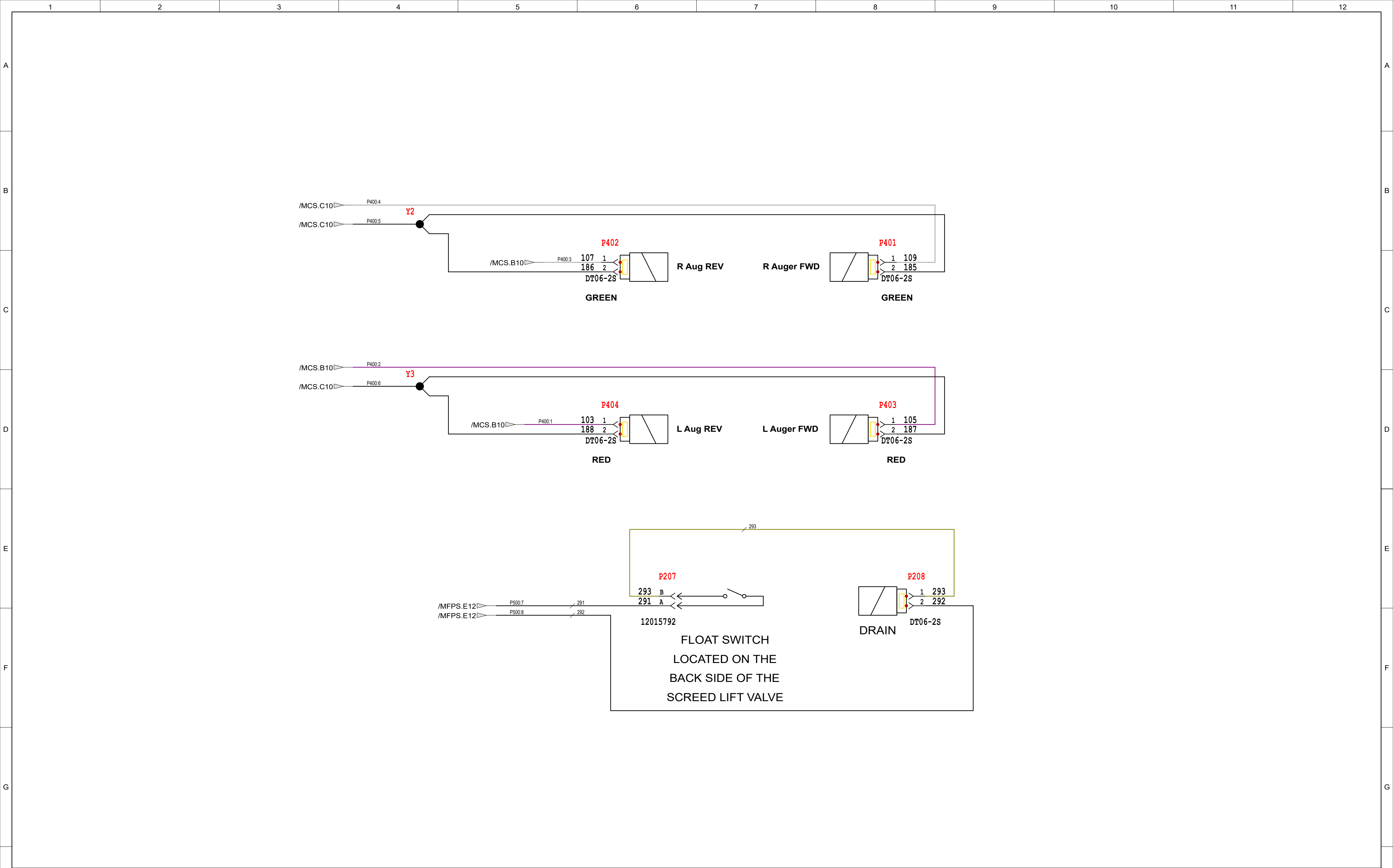












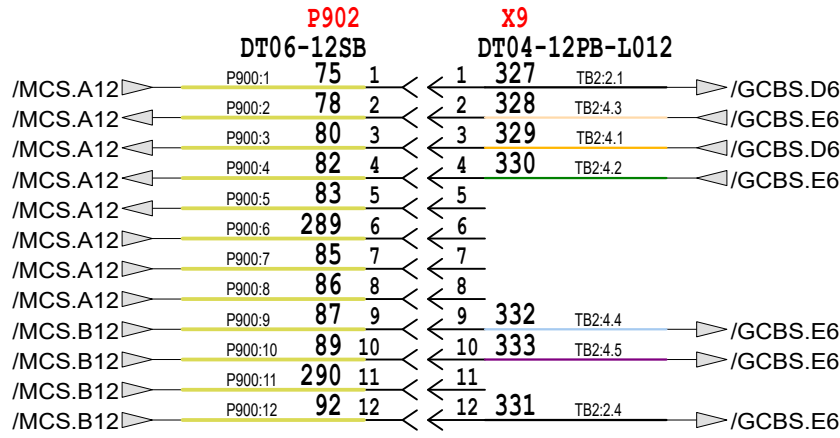
 Calder Brothers Corporation 450 E Warehouse Ct Taylors, SC 29687	Valve Stack					Sheet Name: VSS	
		1	1/04/2024	EOM	SWtoZuken		Sheet #: 9
		0	3/22/2022	LG			
		REV.	DATE	NAME	CHANGES		
CBC PN:	Hydraulic Valve Stack	User Data 1:			User Data 2:		



DANGER

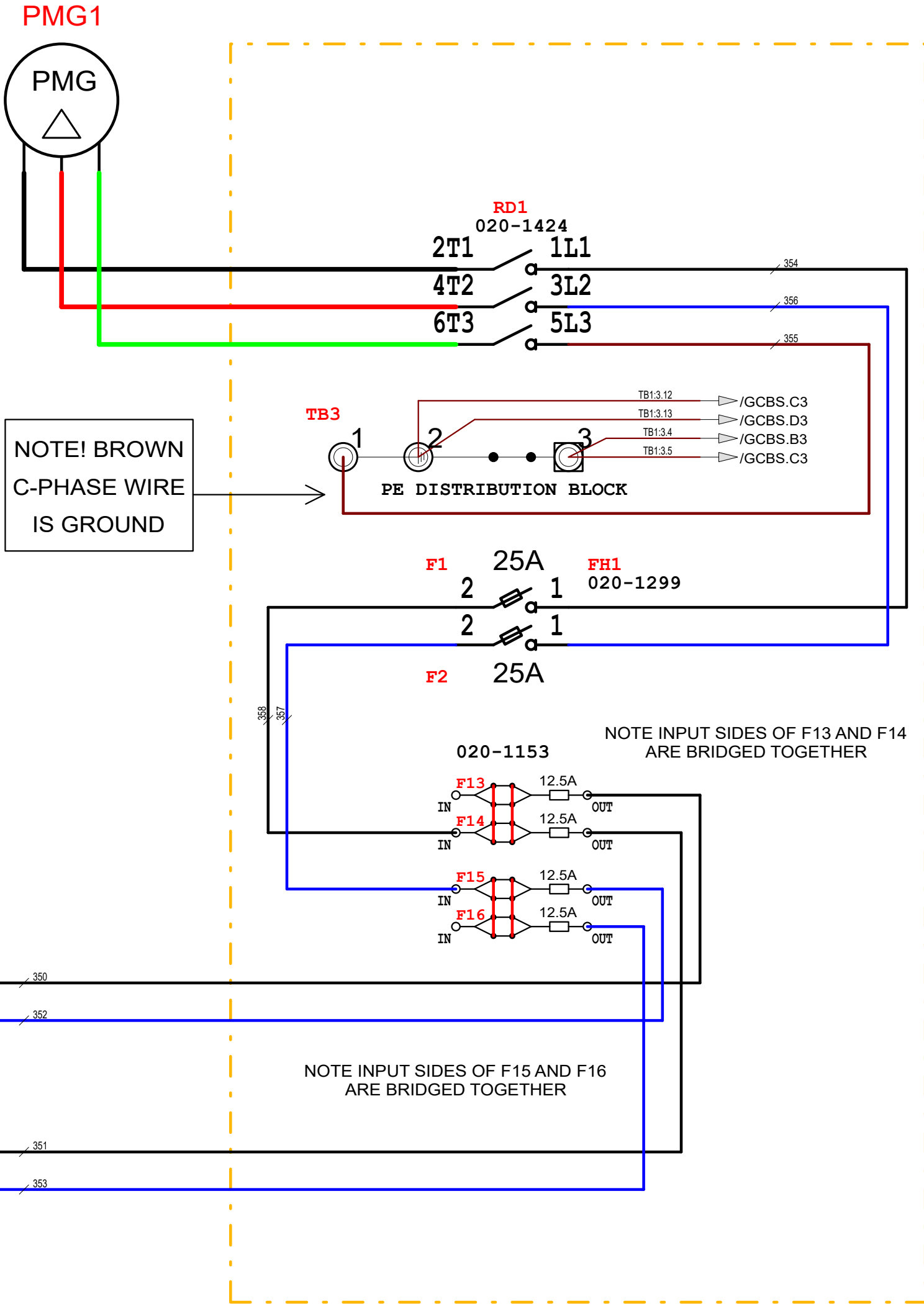
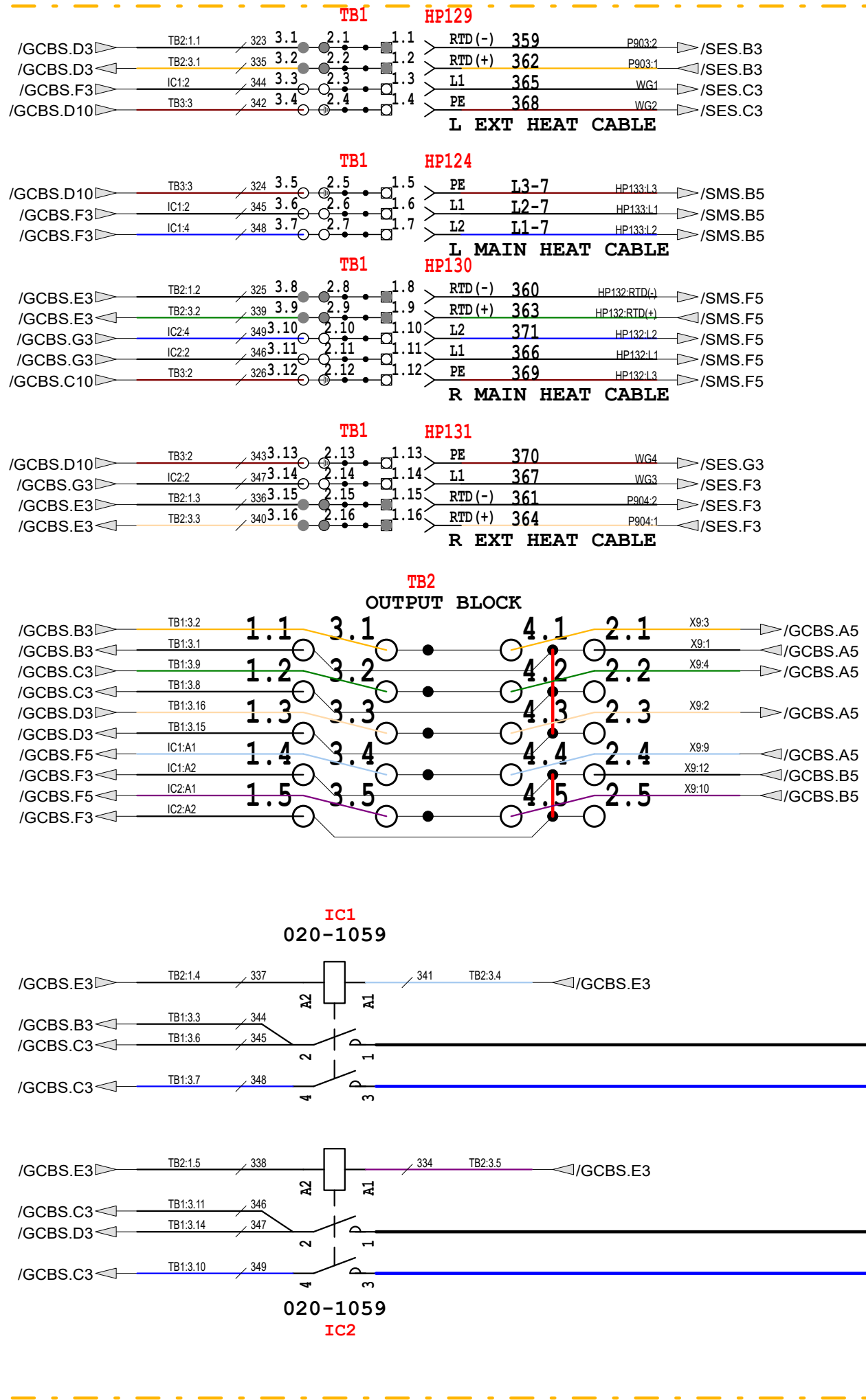
ELECTROCUTION HAZARD

THIS UNIT REQUIRES VERY HIGH VOLTAGE WHEN OPERATING. DO NOT OPEN THE BOX WHEN THE ENGINE IS RUNNING.



NOTE! CORNER GROUNDED
DELTA ARRANGEMENT

NOTE! ALL HV
WIRES SHALL
BE FERRULE
TERMINATED



Heater Enclosure Output Rail

Heater Enclosure Fuse and Contactor Rail



Calder Brothers Corporation
450 E Warehouse Ct
Taylors, SC 29687

Generator Control Box

CBC PN:

Generator Control Box

				Sheet Name:
1	1/04/2024	EOM	SWtoZuken	GCBS
0	3/22/2022	LG		
REV.	DATE	NAME	CHANGES	Sheet #:
User Data 1:			User Data 2:	10



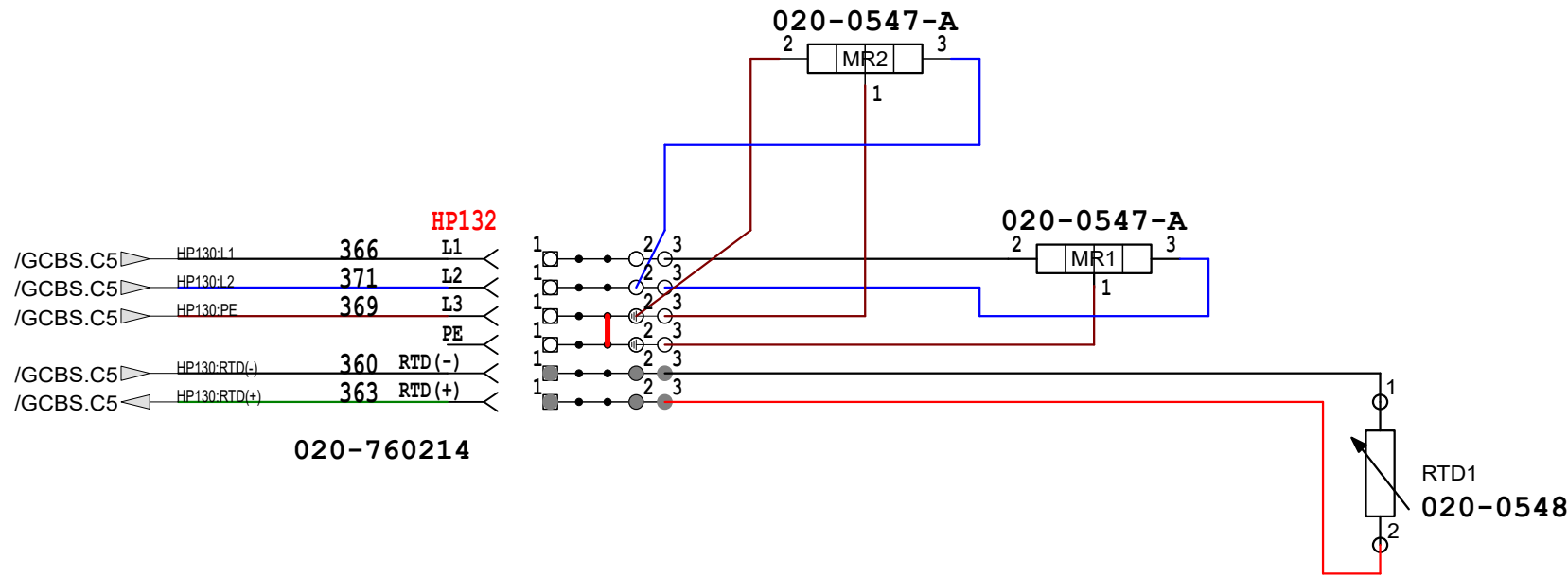
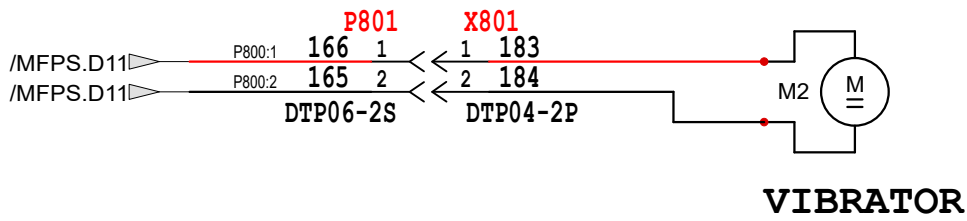
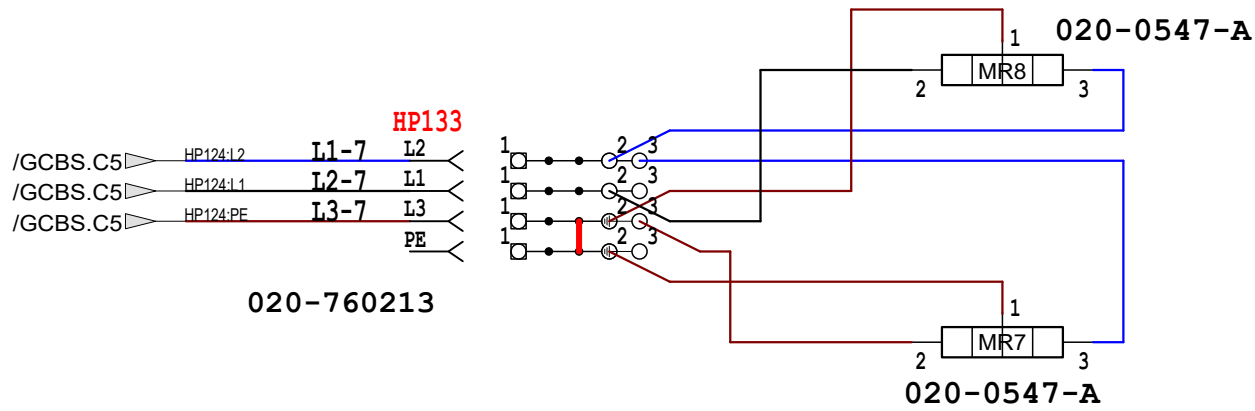
⚠ DANGER

ELECTROCUTION HAZARD

THIS UNIT REQUIRES VERY HIGH VOLTAGE WHEN OPERATING. DO NOT OPEN THE BOX WHEN THE ENGINE IS RUNNING.

0242180

NOTE! ALL HV WIRES SHALL BE FERRULE TERMINATED



Calder Brothers Corporation
450 E Warehouse Ct
Taylors, SC 29687

Screed Main

CBC PN:

Screed Main

User Data 1:

User Data 2:

Sheet Name:

SMS

Sheet #:

11

1

1/04/2024

EOM

SWtoZuken

0

3/22/2024

LG

REV.

DATE

NAME

CHANGES



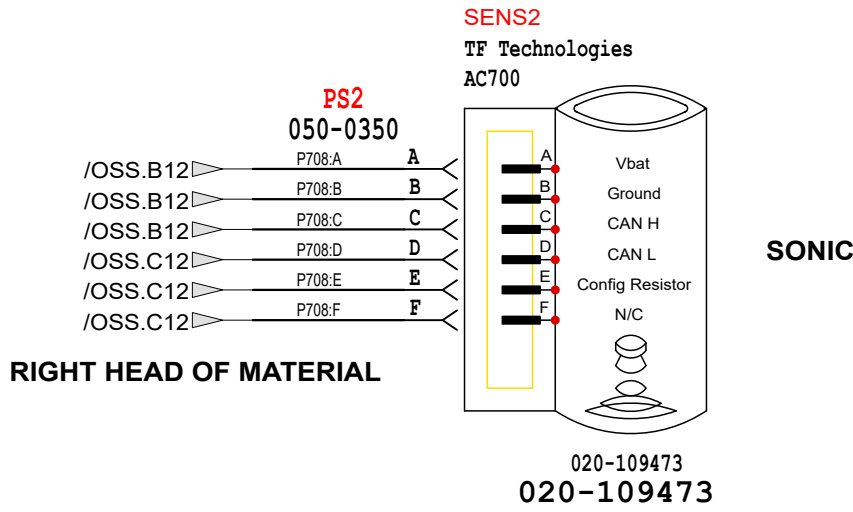
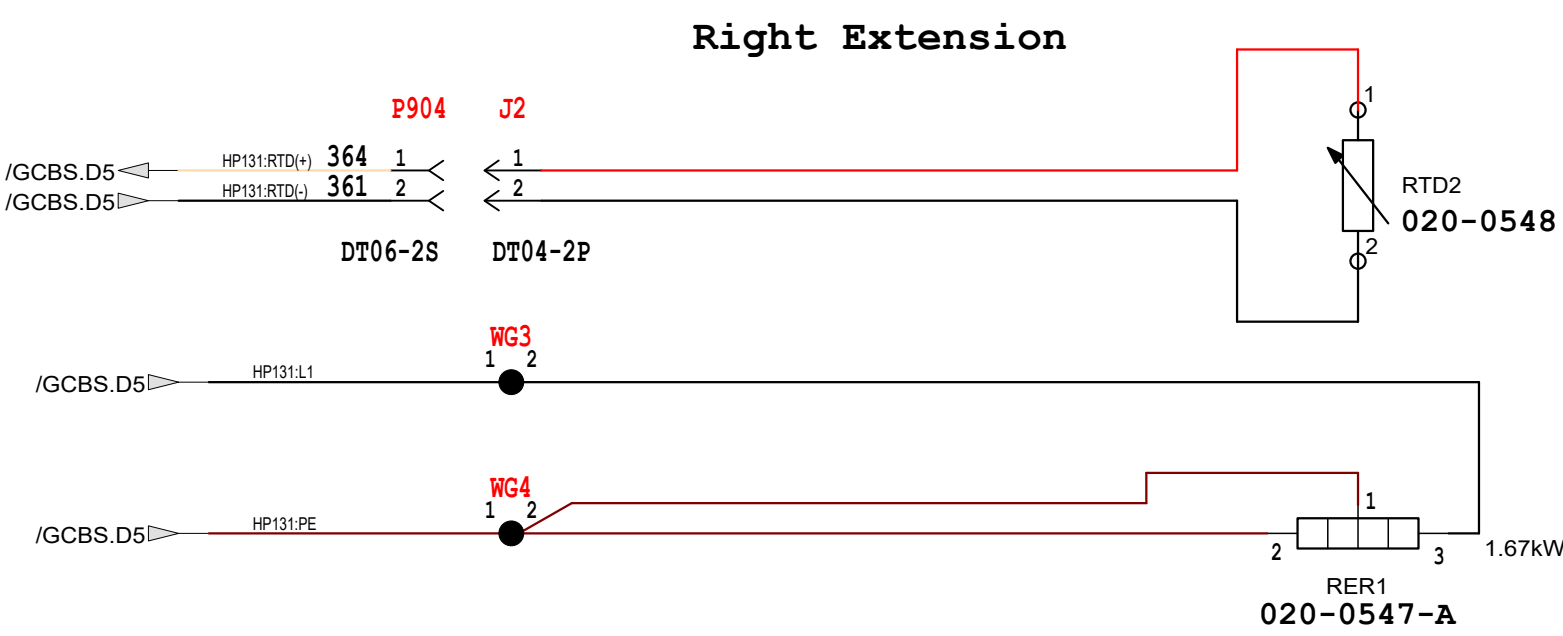
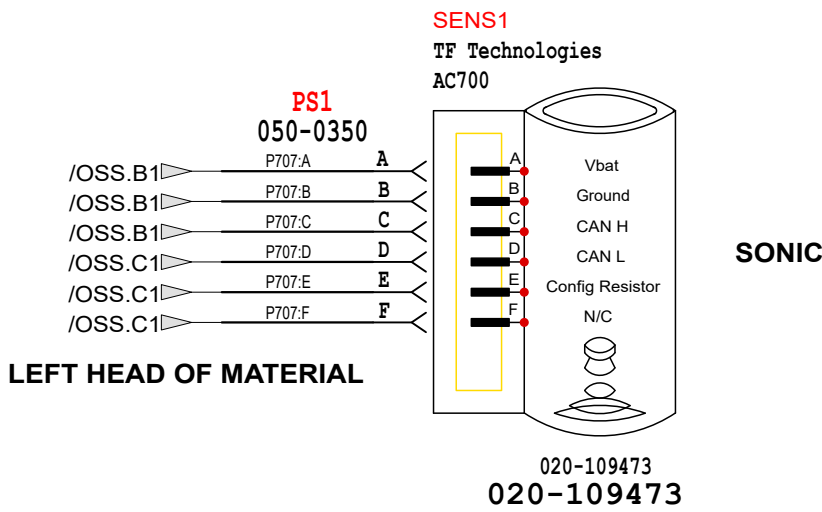
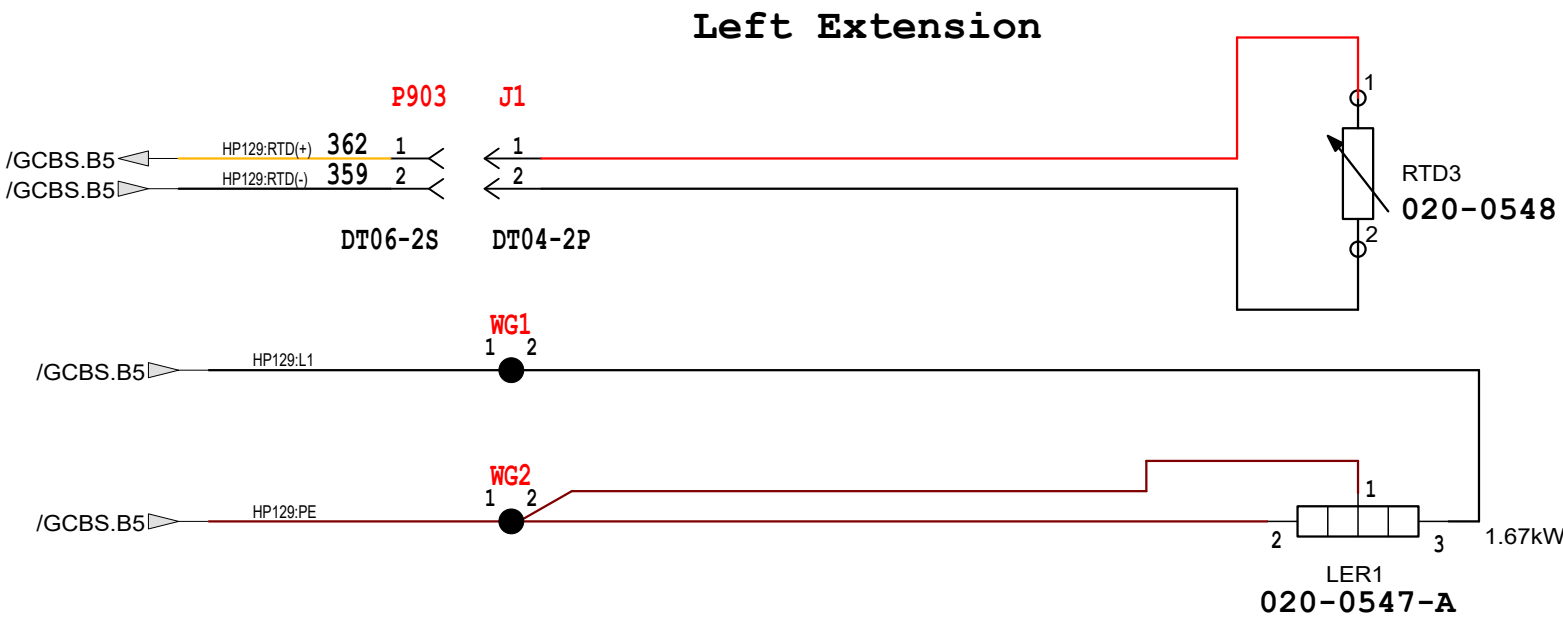
**DANGER**

ELECTROCUTION HAZARD

THIS UNIT REQUIRES VERY HIGH VOLTAGE WHEN OPERATING. DO NOT OPEN THE BOX WHEN THE ENGINE IS RUNNING.

0242190

NOTE! ALL HV WIRES SHALL BE FERRULE TERMINATED



Calder Brothers Corporation
450 E Warehouse Ct
Taylors, SC 29687

Screed Extensions

CBC PN:

Screed

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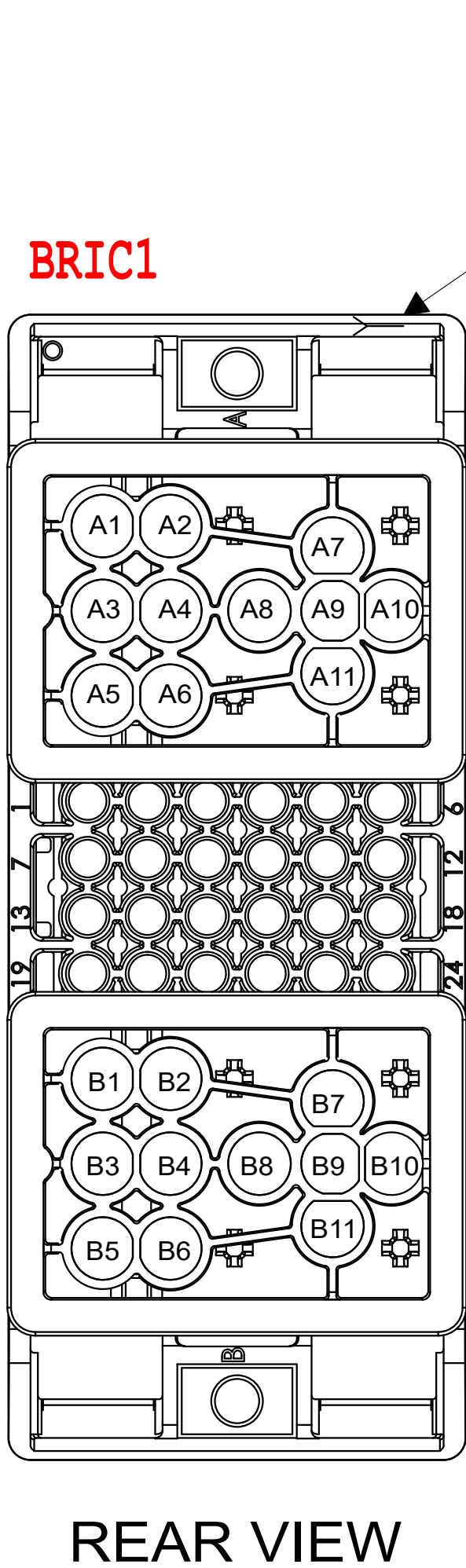
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Sheet Name:

SES

Sheet #:

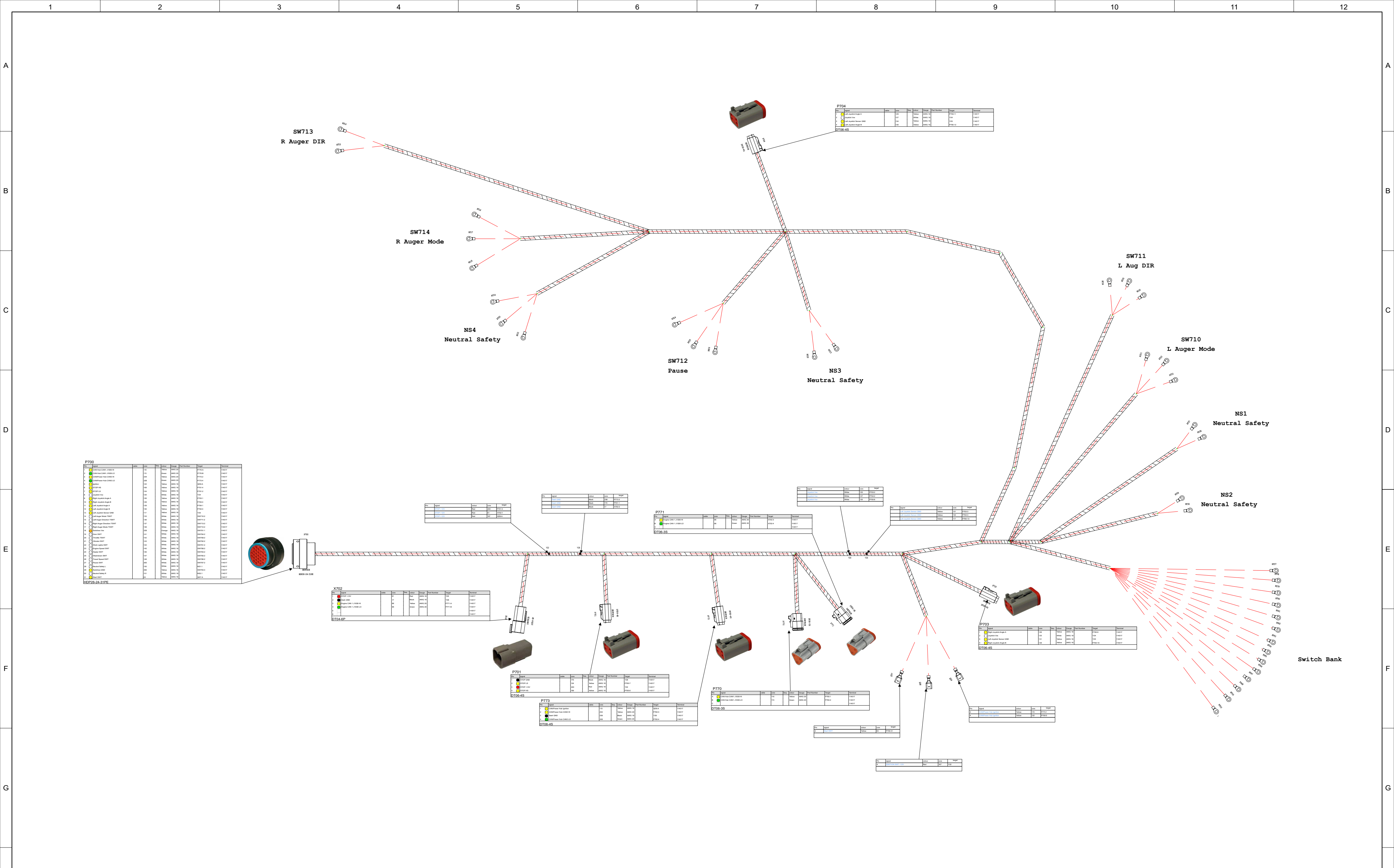
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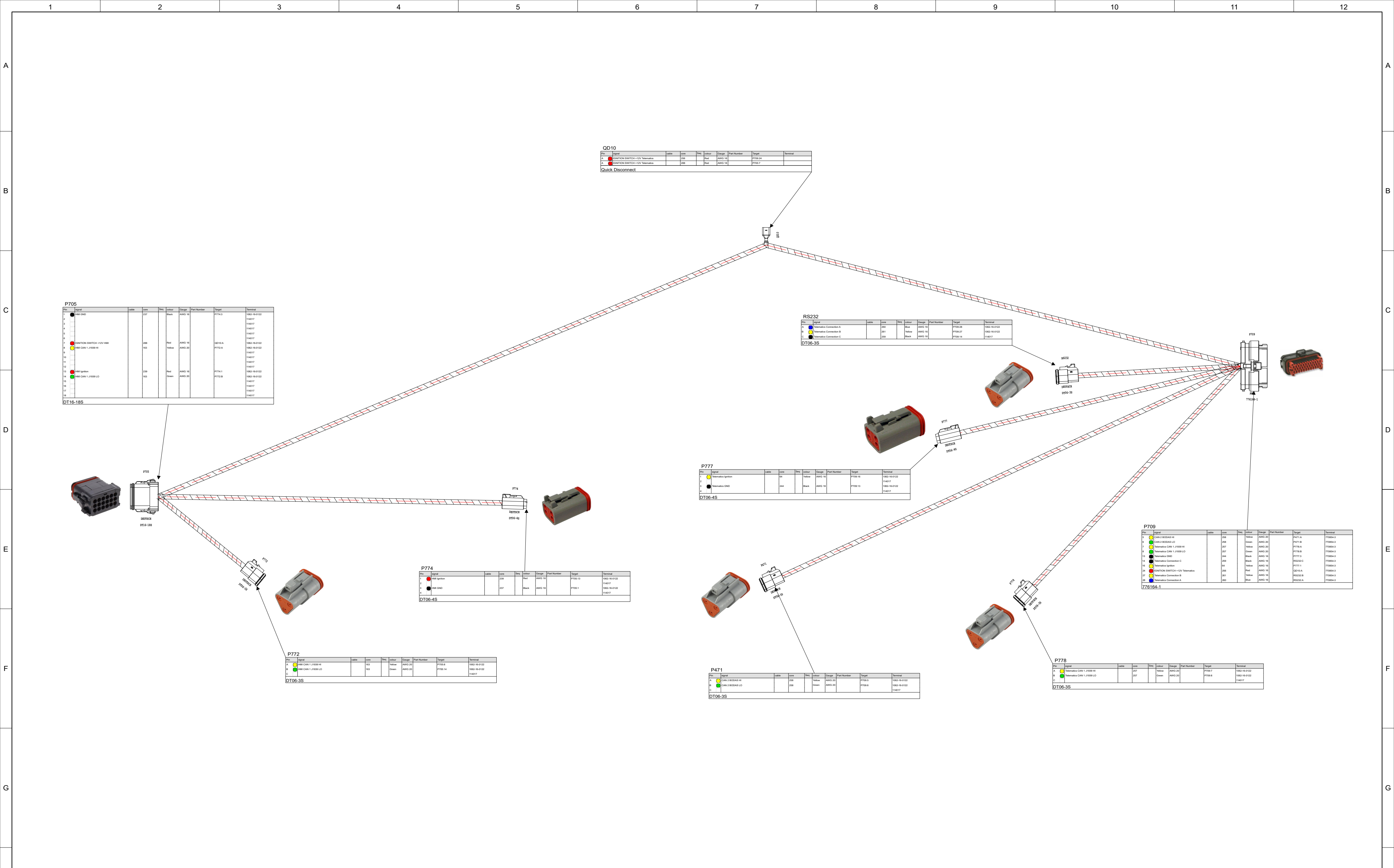


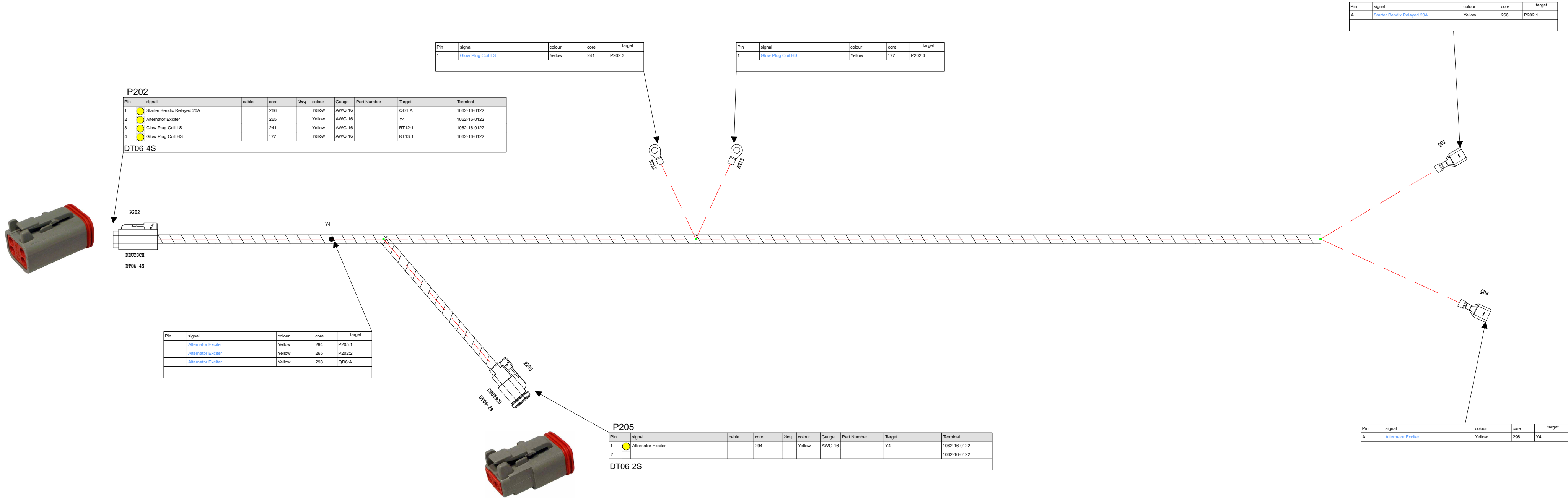
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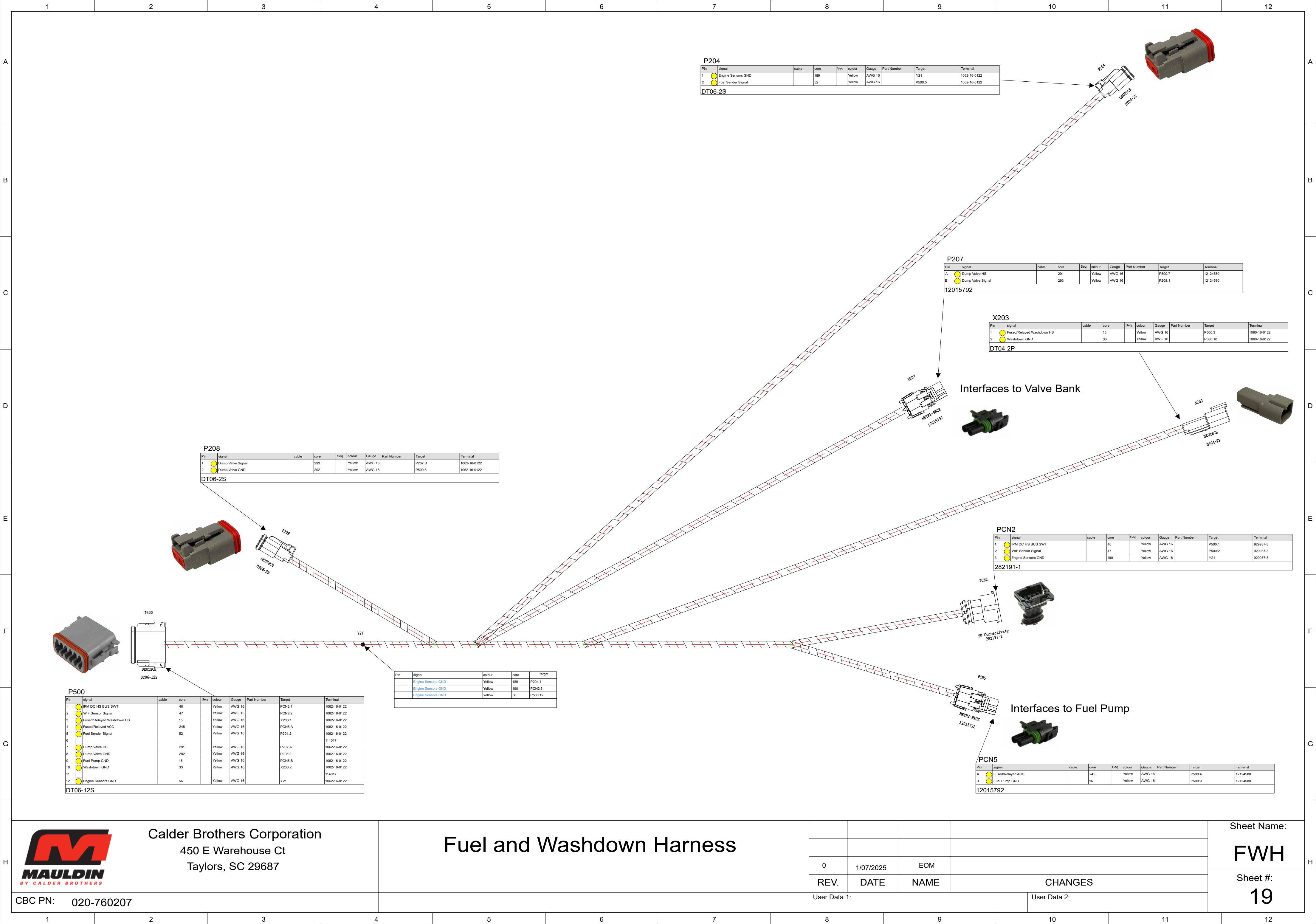
Pin	signal	core	colour	Gauge	Target	Terminal CBC #	Wire Seal CBC #
A1	 Vibrator Fuse +12V Splice 2x	11	Red	AWG 12	Y30	020-1288	020-1291
A2	 Vibrator Fuse	44	Red	AWG 12	Y35	020-1288	020-1291
A3	 Washdown Fuse +12V	62	Red	AWG 12	P2000:5	020-1288	020-1291
A4	 Washdown Fuse	35	Red	AWG 12	BRIC1:C5	020-1288	020-1291
A5	 Starter Bendix Fuse +12V	23	Red	AWG 12	P2000:9	020-1288	020-1291
A6	 Enigne Start Relay Power Fuse	54	Red	AWG 16	BRIC1:C17	020-1288	020-1291
A7	 Vibrator Coil HS	39	Yellow	AWG 16	PJ3:4	020-1306	020-1289
A8	 Vibrator Power	43	Red	AWG 12	X800:2	020-1288	020-1291
A10	 Vibrator Relay Power Splice	45	Red	AWG 12	Y35	020-1288	020-1291
A11	 Vibrator Coil LS	90	White	AWG 18	X201:23	020-1306	020-1289
B1	 ECM Main Fuse +12V x2	27	Red	AWG 12	Y37	020-1288	020-1291
B2	 Enigne Main Relay Power Fuse	58	Red	AWG 12	BRIC1:B10	020-1288	020-1291
B3	 MCU Fuse +12V x3	19	Red	AWG 10	Y13	020-1288	020-1291
B4	 MCU Fused +12V Bus	20	Red	AWG 12	X201:1	020-1288	020-1291
B5	 Work Lights Fuse +12V	7	Red	AWG 12	P2000:4	020-1288	020-1291
B6	 Work Lights Fuse	29	Red	AWG 12	BRIC1:C13	020-1288	020-1291
B7	 ECM Main Relay Coil Fuse	60	Red	AWG 12	BRIC1:C16	020-1306	020-1289
B8	 Fused ECM Battery (+)	57	Red	AWG 12	X201:3	020-1288	020-1291
B10	 Enigne Main Relay Power Fuse	58	Red	AWG 12	BRIC1:B2	020-1288	020-1291
B11	 Engine Main Relay Coil LS	178	White	AWG 18	X201:13	020-1306	020-1289
C1	 Ignition Relay Power Fuse	50	Red	AWG 12	BRIC1:C10	020-1296	020-1283
C2	 Ignition Relay Coil GND	12	Yellow	AWG 16	P1001:6	020-1292	020-1293
C3	 Dash Fuse +12V	31	Red	AWG 12	P2001:12	020-1296	020-1283
C4	 Key Switch Fused +12V	61	Red	AWG 16	X201:15	020-1292	020-1293
C5	 Washdown Fuse	35	Red	AWG 12	BRIC1:A4	020-1296	020-1283
C6	 Washdown Coil LS	91	White	AWG 18	X201:24	020-1292	020-1293
C7	 Ignition Coil HS	171	Yellow	AWG 16	PJ3:3	020-1292	020-1293
C8	 Accessory Power Bus	48	White	AWG 18	Y29	020-1296	020-1283
C9	 Ignition Fuse +12V	22	Red	AWG 12	P2000:8	020-1296	020-1283
C10	 Ignition Relay Power Fuse	50	Red	AWG 12	BRIC1:C1	020-1296	020-1283
C11	 Washdown Coil HS	37	Yellow	AWG 16	PJ3:5	020-1292	020-1293
C12	 Fused/Relayed Washdown HS	33	Yellow	AWG 16	X500:3	020-1292	020-1293
C13	 Work Lights Fuse	29	Red	AWG 12	BRIC1:B6	020-1296	020-1283
C14	 Work Lights Coil LS	46	White	AWG 18	X201:18	020-1292	020-1293
C15	 ECM Main Coil HS Fuse +12V	153	Red	AWG 12	P2000:12	020-1296	020-1283
C16	 ECM Main Relay Coil Fuse	60	Red	AWG 12	BRIC1:B7	020-1296	020-1283
C17	 Enigne Start Relay Power Fuse	54	Red	AWG 16	BRIC1:A6	020-1296	020-1283
C18	 Start Relay Coil LS	176	White	AWG 18	X201:12	020-1292	020-1293
C19	 Worklight Coil HS	243	Yellow	AWG 16	PJ3:6	020-1292	020-1293
C20	 Work Lights HS SWT	2	Yellow	AWG 16	X201:19	020-1292	020-1293
C21	 Suppressor Anode	14	Black	AWG 16	P1001:8	020-1296	020-1283
C22	 Vibrator Suppressor Cathode	42	Red	AWG 12	Y35	020-1296	020-1283
C23	 Start Relay Coil (+)	88	White	AWG 18	X201:11	020-1292	020-1293
C24	 Starter Bendix HS	53	Yellow	AWG 16	X201:17	020-1292	020-1293

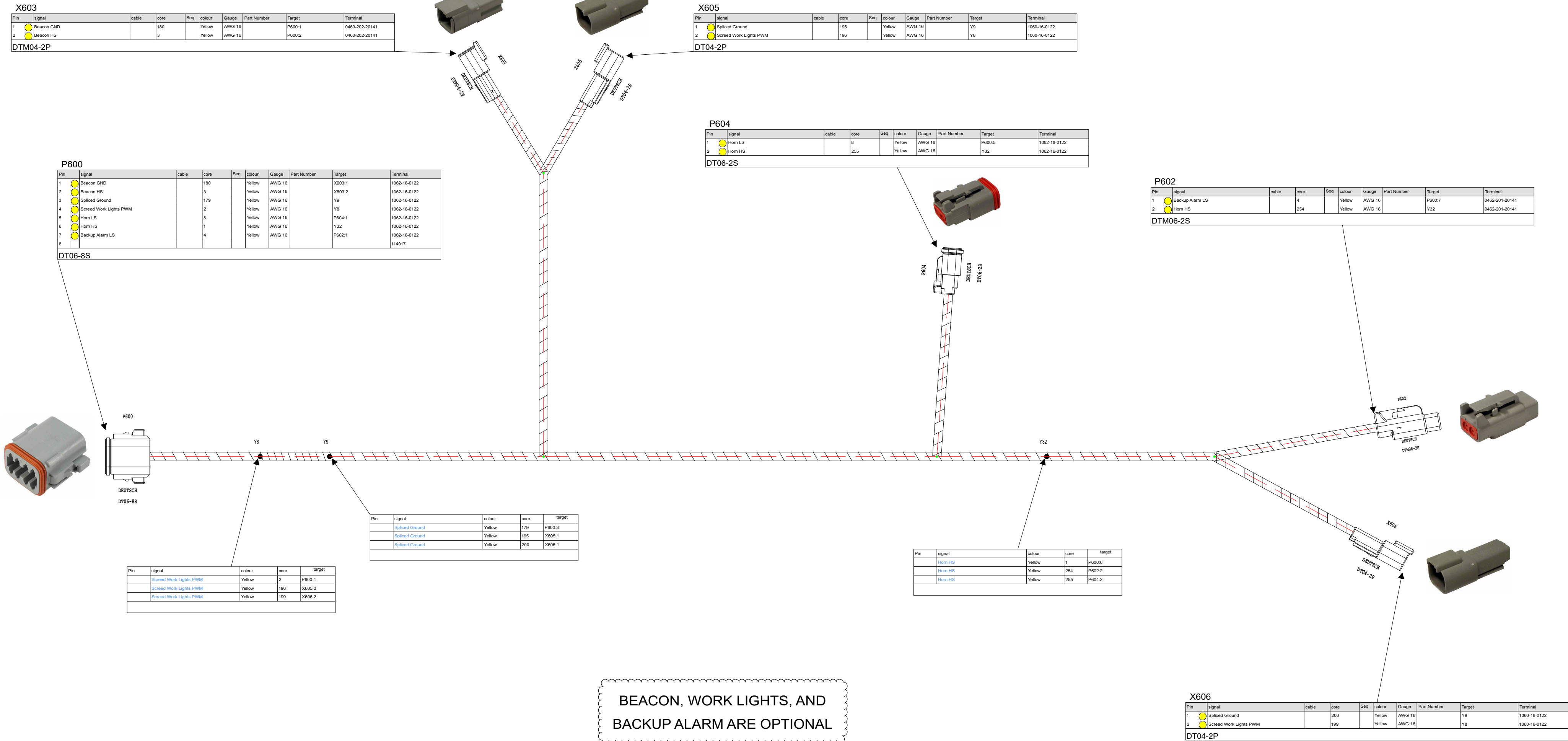
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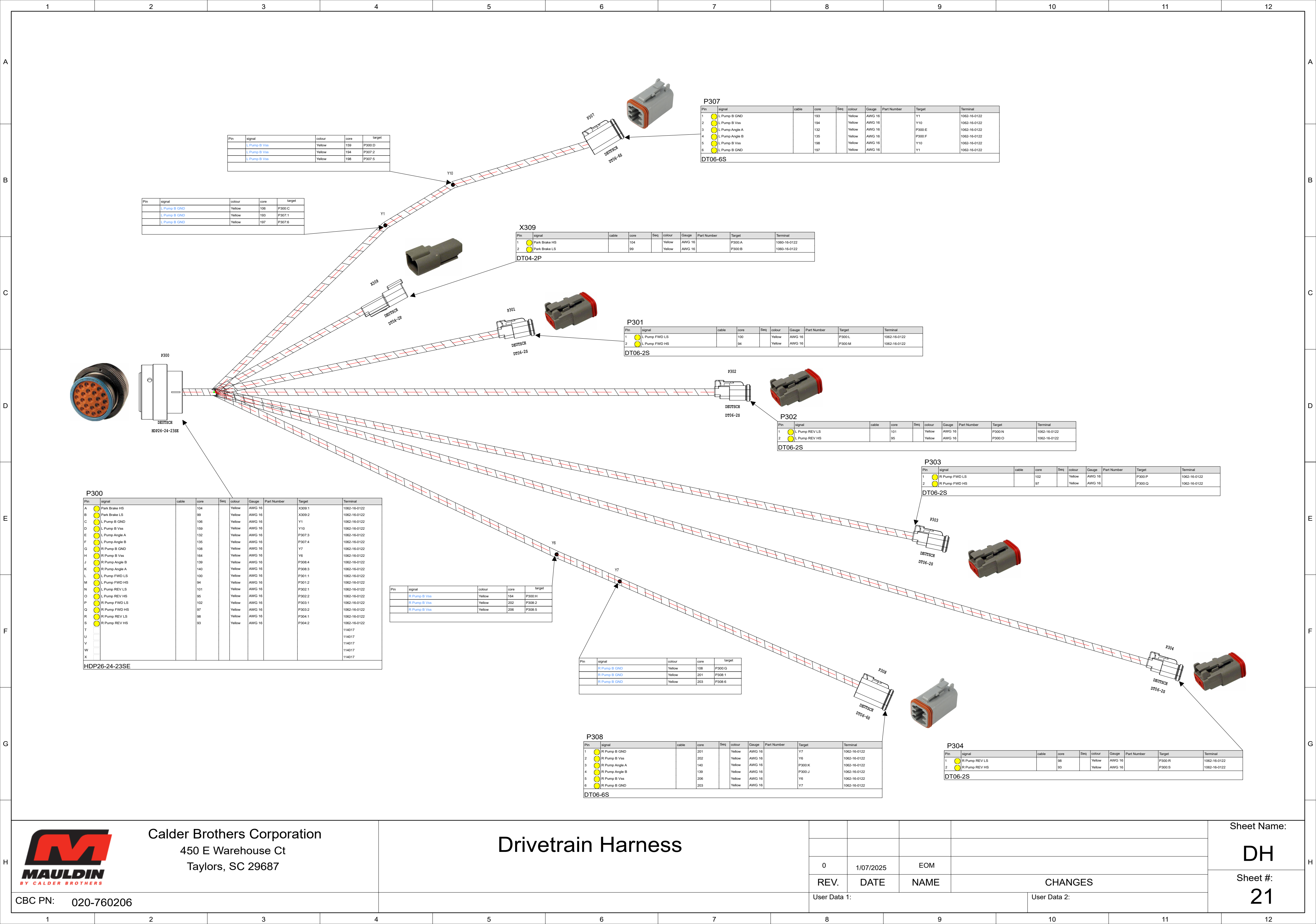












Pin	signal	cable	core	Seq	colour	Gauge	Part Number	Target	Terminal
1	L Auger REV HS		103		Yellow	AWG 16		P404:1	1062-16-0122
2	L Auger FWD HS		105		Yellow	AWG 16		P403:1	1062-16-0122
3	R Auger REV HS		107		Yellow	AWG 16		P402:1	1062-16-0122
4	R Auger FWD HS		109		Yellow	AWG 16		P401:1	1062-16-0122
5	L Auger LS		111		Yellow	AWG 16		Y2	1062-16-0122
6	L Auger LS		112		Yellow	AWG 16		Y3	1062-16-0122
7	CAN 2 BODAS HI		123		Yellow	AWG 20		P470:A	1062-16-0122
8	CAN 2 BODAS LO		123		Green	AWG 20		P470:B	1062-16-0122

DT06-8S

Pin	signal	colour	core	target
	R Auger LS	Yellow	185	P401:2
	R Auger LS	Yellow	111	P400:5
	R Auger LS	Yellow	186	P402:2

Pin	signal	colour	core	target
	L Auger LS	Yellow	187	P403:2
	L Auger LS	Yellow	112	P400:6
	L Auger LS	Yellow	188	P404:2

Pin	signal	cable	core	Seq	colour	Gauge	Part Number	Target	Terminal
A	CAN 2 BODAS HI		123		Yellow	AWG 20		P400:7	1062-16-0122
B	CAN 2 BODAS LO		123		Green	AWG 20		P400:8	1062-16-0122
C									114017

DT06-3S

Pin	signal	cable	core	Seq	colour	Gauge	Part Number	Target	Terminal
1	R Auger FWD HS		109		Yellow	AWG 16		P400:4	1062-16-0122
2	R Auger LS		185		Yellow	AWG 16		Y2	1062-16-0122

DT06-2S

Pin	signal	cable	core	Seq	colour	Gauge	Part Number	Target	Terminal
1	R Auger REV HS		107		Yellow	AWG 16		P400:3	1062-16-0122
2	R Auger LS		186		Yellow	AWG 16		Y2	1062-16-0122

DT06-2S

Pin	signal	cable	core	Seq	colour	Gauge	Part Number	Target	Terminal
1	L Auger FWD HS		105		Yellow	AWG 16		P400:2	1062-16-0122
2	L Auger LS		187		Yellow	AWG 16		Y3	1062-16-0122

DT06-2S

Pin	signal	cable	core	Seq	colour	Gauge	Part Number	Target	Terminal
1	L Auger REV HS		103		Yellow	AWG 16		P400:1	1062-16-0122
2	L Auger LS		188		Yellow	AWG 16		Y3	1062-16-0122

DT06-2S

P471 ON THE TELEMATICS HARNESS



Calder Brothers Corporation
450 E Warehouse Ct
Taylors, SC 29687

Valve Stack Harness

Sheet Name:

VSH

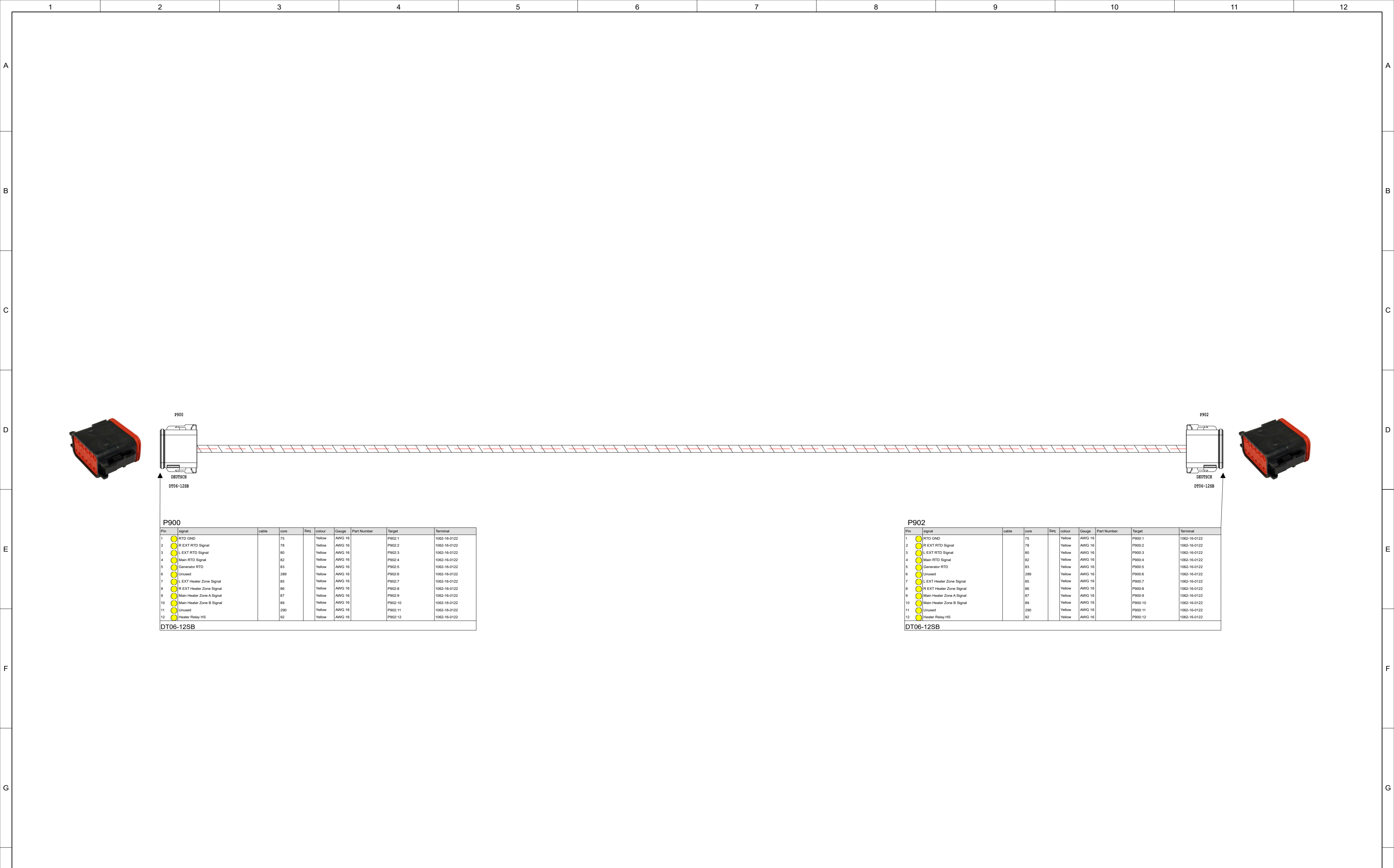
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22

CBC PN: 020-760204

User Data 1:

User Data 2:



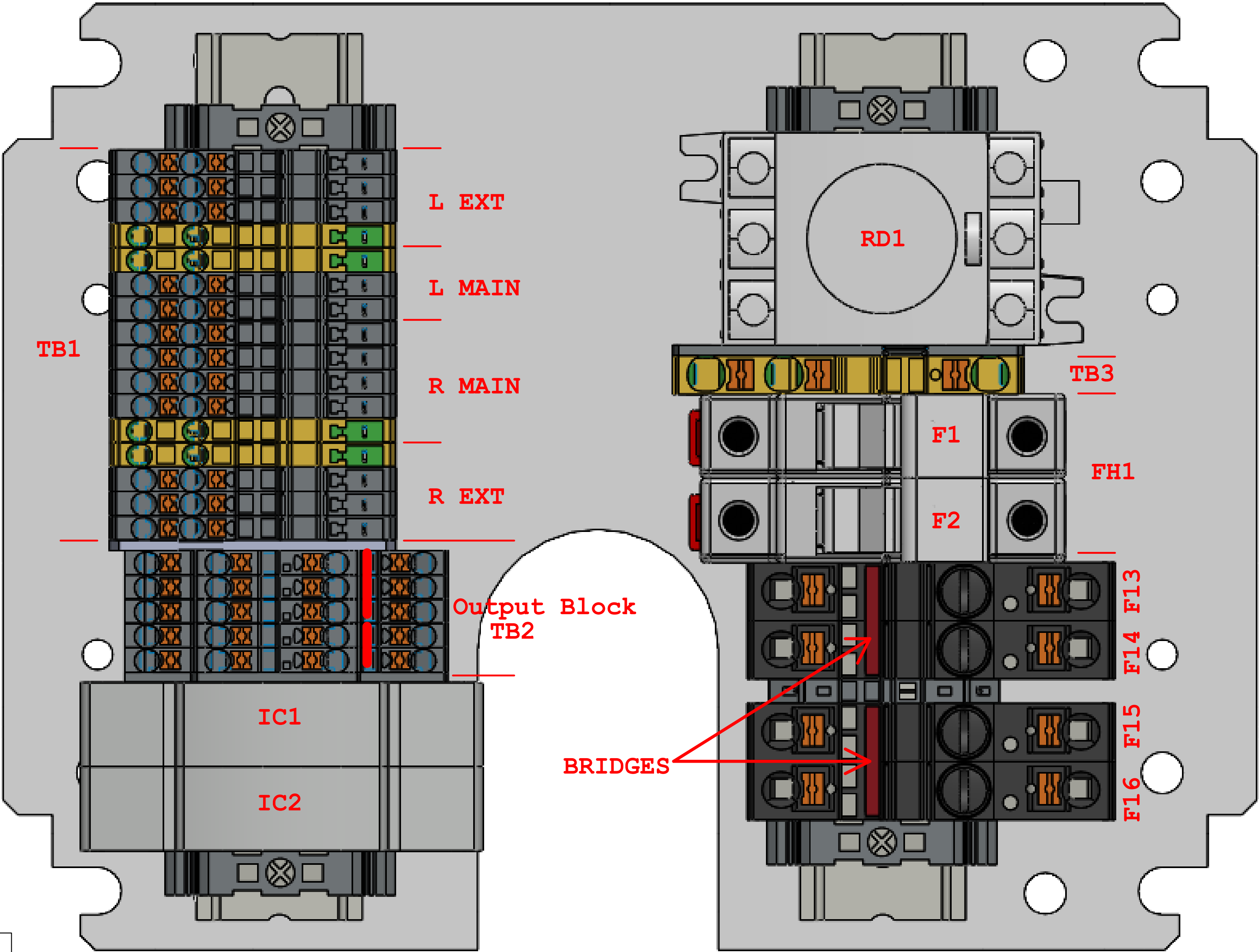


⚠ DANGER

ELECTROCUTION HAZARD

THIS UNIT REQUIRES VERY HIGH VOLTAGE WHEN OPERATING. DO NOT OPEN THE BOX WHEN THE ENGINE IS RUNNING.

0242190



NOTE! BROWN
C-PHASE WIRE
IS GROUND

NOTE! CORNER GROUNDED
DELTA ARRANGEMENT



Calder Brothers Corporation
450 E Warehouse Ct
Taylors, SC 29687

Generator Control Box

0	1/07/2025	EOM	
REV.	DATE	NAME	CHANGES
User Data 1:			User Data 2:

Sheet Name:

GCB

Sheet #:

24

CBC PN:

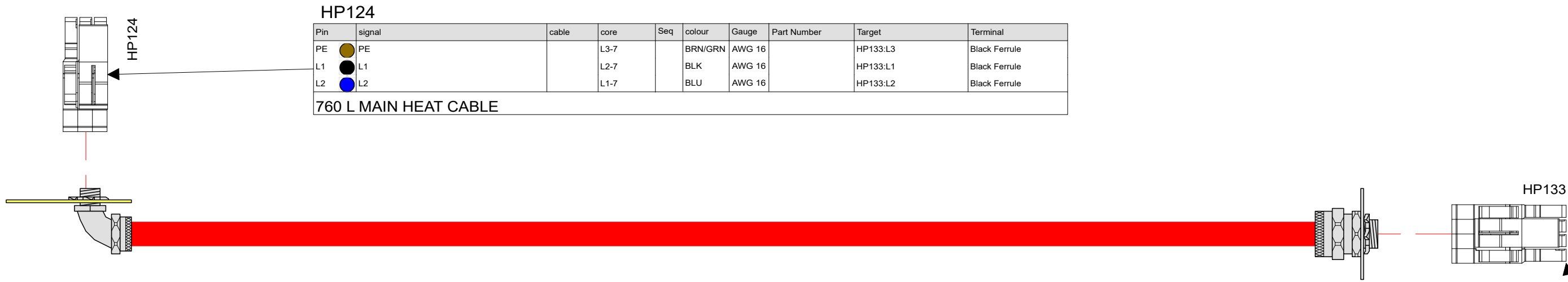


⚠ DANGER

ELECTROCUTION HAZARD

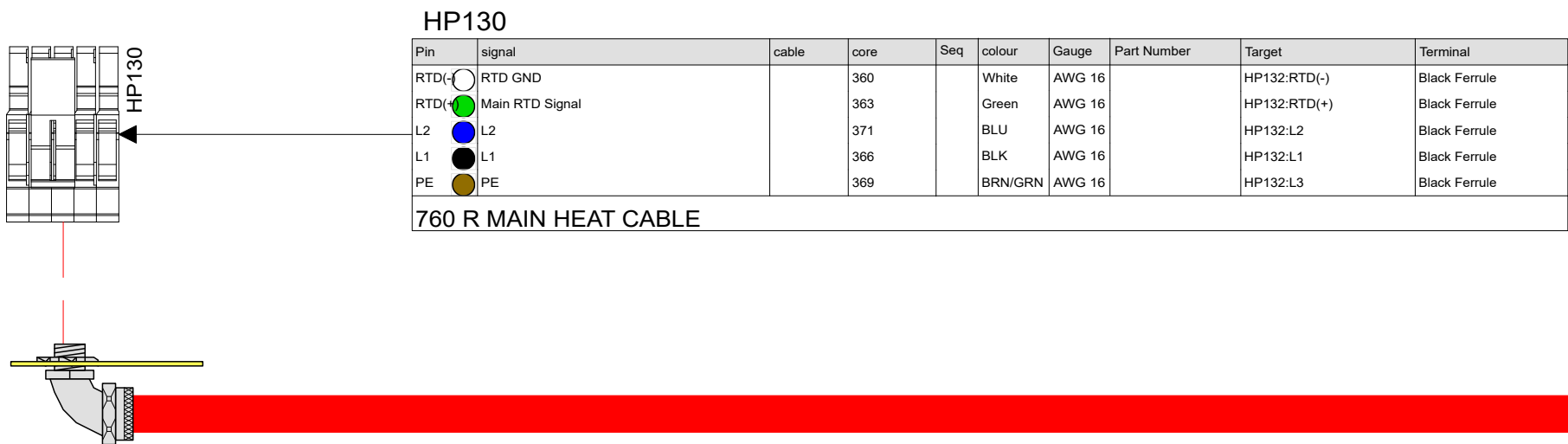
THIS UNIT REQUIRES VERY HIGH VOLTAGE WHEN OPERATING. DO NOT OPEN THE BOX WHEN THE ENGINE IS RUNNING.

024-0160



Pin	signal	cable	core	Seq	colour	Gauge	Part Number	Target	Terminal
PE	PE		L3-7		BRN/GRN	AWG 16		HP133:L3	Black Ferrule
L1	L1		L2-7		BLK	AWG 16		HP133:L1	Black Ferrule
L2	L2		L1-7		BLU	AWG 16		HP133:L2	Black Ferrule
760 L MAIN HEAT CABLE									

Pin	signal	cable	core	Seq	colour	Gauge	Part Number	Target	Terminal
L2	L2		L1-7		BLU	AWG 16		HP124:L2	Black Ferrule
L1	L1		L2-7		BLK	AWG 16		HP124:L1	Black Ferrule
L3	PE		L3-7		BRN/GRN	AWG 16		HP124:PE	Black Ferrule
PE									
760 L MAIN SCREED HEAT CABLE									



Pin	signal	cable	core	Seq	colour	Gauge	Part Number	Target	Terminal
RTD(-)	RTD GND		360		White	AWG 16		HP132:RTD(-)	Black Ferrule
RTD(+)	Main RTD Signal		363		Green	AWG 16		HP132:RTD(+)	Black Ferrule
L2	L2		371		BLU	AWG 16		HP132:L2	Black Ferrule
L1	L1		366		BLK	AWG 16		HP132:L1	Black Ferrule
PE	PE		369		BRN/GRN	AWG 16		HP132:L3	Black Ferrule
760 R MAIN HEAT CABLE									

Pin	signal	cable	core	Seq	colour	Gauge	Part Number	Target	Terminal
L1	L1		366		BLK	AWG 16		HP130:L1	Black Ferrule
L2	L2		371		BLU	AWG 16		HP130:L2	Black Ferrule
L3	PE		369		BRN/GRN	AWG 16		HP130:PE	Black Ferrule
PE									
RTD(-)	RTD GND		360		White	AWG 16		HP130:RTD(-)	Black Ferrule
RTD(+)	Main RTD Signal		363		Green	AWG 16		HP130:RTD(+)	Black Ferrule
760 R MAIN SCREED HEAT CABLE									



Calder Brothers Corporation
450 E Warehouse Ct
Taylors, SC 29687

Main Screed High Voltage Harness

CBC PN: LEFT: 020-760213 RIGHT: 020-760214

0	1/07/2025	EOM	
REV.	DATE	NAME	CHANGES
User Data 1:			User Data 2:

Sheet Name:
MSHVH
Sheet #:
25



⚠ DANGER

ELECTROCUTION HAZARD

THIS UNIT REQUIRES VERY HIGH VOLTAGE WHEN OPERATING. DO NOT OPEN THE BOX WHEN THE ENGINE IS RUNNING.

0240160

