snorkel

TB86J



CE

REPAIR PARTS MANUAL

Part Number 0113772
August 2016

Serial number 000200 and after

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Item	Part No.	Name	Qty	Uom
-	6047152	CYLINDER MASTER LEVEL		EA
5	6047161	GARMAX JOURNAL BEARING RMT	4	EA
7	KIT ITEM	O-RING	1	EA
8	KIT ITEM	O-RING	1	EA
9	KIT ITEM	O-RING	1	EA
10	KIT ITEM	BACKUP RING	1	EA
11	KIT ITEM	DISO-PAC	1	EA
12	KIT ITEM	DEEP Z-SEAL	1	EA
13	KIT ITEM	HD ROD WIPER, SEALED OD	1	EA
14	KIT ITEM	WEARBAND	1	EA
15	KIT ITEM	PRECISION WEARBAND	1	EA
16	KIT ITEM	LOCKING INSERT	2	EA
	6047156	SEAL KIT	1	E/A

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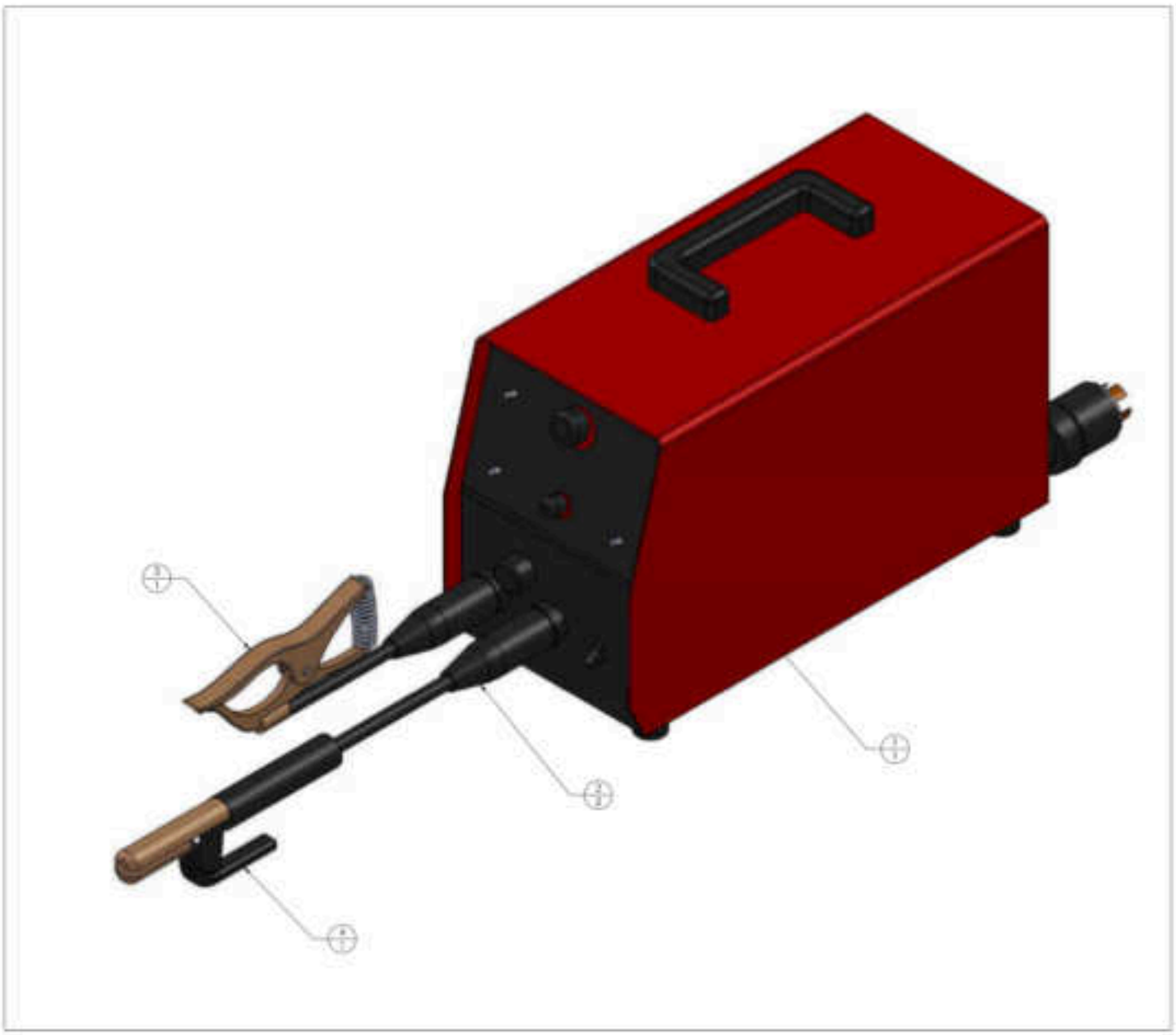
Item	Part No.	Name	Qty	Uom
-	1430385	PLATFORM BUMP GUARD W/PAD ASSEMBLY		EA
1	1430378	PLATF BUMP FRAME	1	EA
2	1430099	WLDMT, GATE SWING SIDE	1	EA
3	2572007	BRG .500ID .625OD .625	4	EA
4	0071837	TORSION - SPRING	1	EA
5	5010007	HOSE VACUUM .156 ID 4.0MM	2	EA
6	0420632	PIN, GATE HINGE PLATFORM	1	EA
7	2667500	95 BALL KNOB-1-3/8 X 1/2-13	1	EA
8	986359	WASHER, 1/2 FLAT	2	EA
9	988179	PIN COT .125DIA 1.00-1/8 X 1	2	EA
10	0421529-5	WLDMT STRIKER SWING GATE	1	EA
11	NL051808CZ	NUT HEX NL .313-18 GR8 C	4	EA
12	0421519-5	PLT LATCH MNT SWING GATE	1	EA
13	300492	LATCH LH TRAY ROTARY LOCK	1	EA
14	986269	WSHR FLAT .313	4	EA
15	987109	WASHER, 5/16 MEDIUM LOCK	2	EA
16	970279	BLT HEXHD .313-18 1.50 GR5	2	EA
17	970239	BLT HEXHD .313-18 .750 GR5	2	EA
18	970009	Capscrew 1/4-20 x 1/2 inch long hex head grade 5	1	EA
19	302555	KNOB ROUND .25-20NC FEMALE-DIM	1	EA
20	0420199	WLDMT, GATE GRAVITY SIDE	1	EA
21	0421321	WLDMT, GG FRONT 36x96 STL PLAT	1	EA
22	0150509	ROLLER	4	EA
23	0070953	HOSE-6-6S-8S 60 100R2	4	EA
24	5569865	BLT HEXHD .375-16 X 2.75 GR5	4	EA
25	056067-010	Nut, HexNut DIN934 M10 8.0 Zin	4	EA

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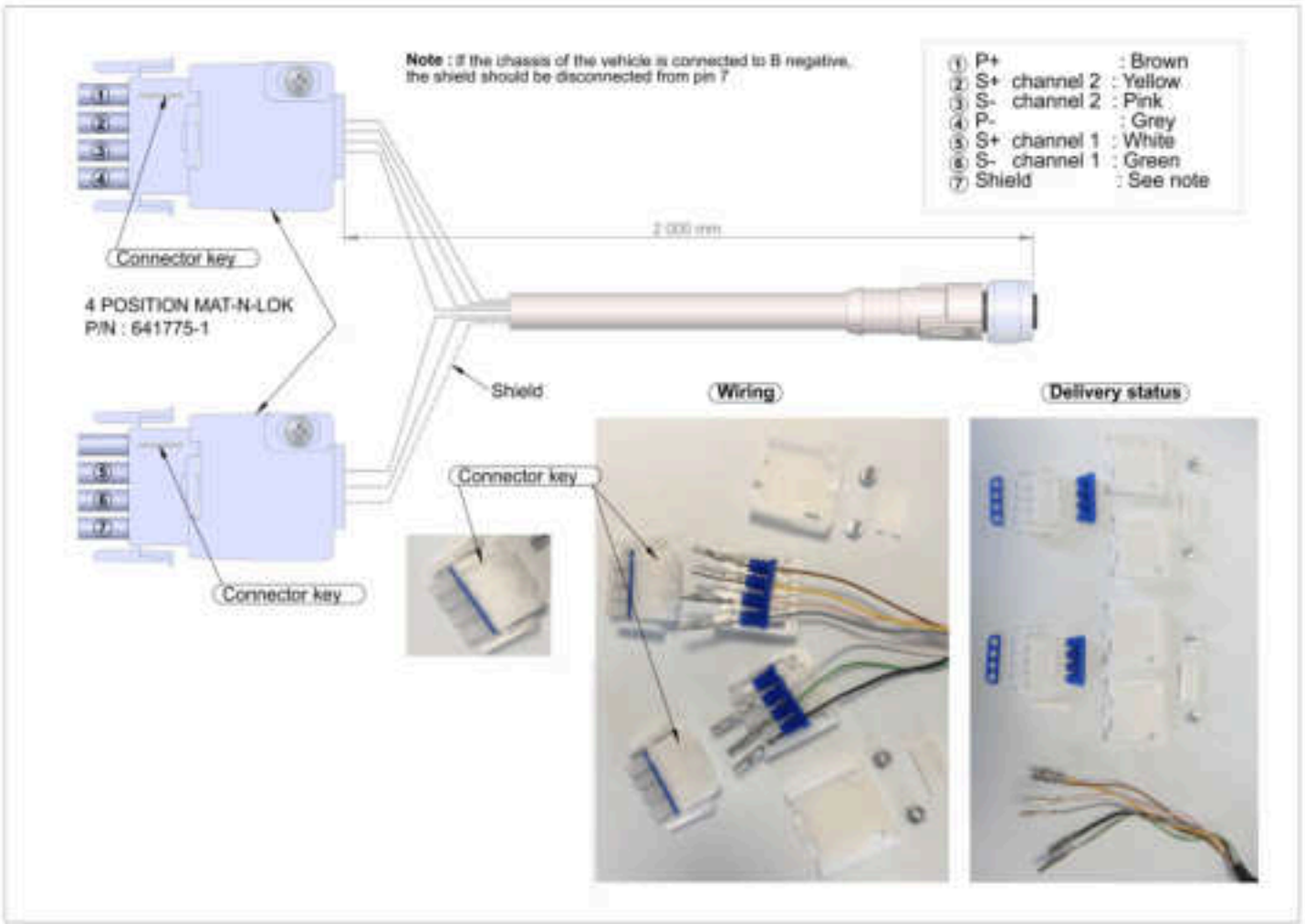
Item	Part No.	Name	Qty	Uom
-	1431573	GLOBAL STANDARD PLATFORM ASSEMBLY WITH SNORKEL GUARD		EA
*	1431573-0	GLOBAL STANDARD PLATFORM ASSEMBLY WITH SNORKEL GUARD		EA
1	1430080	GLOBAL STD PLATFORM WELDMENT	1	EA
2	1430099	WLDMT, GATE SWING SIDE	1	EA
3	0421321	WLDMT, GG FRONT 36x96 STL PLAT	1	EA
4	0420199	WLDMT, GATE GRAVITY SIDE	1	EA
5	8060311	PLT, GRIPSTRUT 8FT	3	EA
6	0150509	ROLLER	4	EA
7	0071953	SPCR .451ID .500OD 1.88 STL	4	EA
8	0421519	PLT, LATCH MNT SWING GATE	1	EA
9	0421529	WLDMT, STRIKER, SWING GATE	1	EA
10	300492	LATCH LH TRAY ROTARY LOCK	1	EA
11	0113531	SNORKEL GUARD ASSEMBLY	1	EA
12	0420632	PIN, GATE HINGE PLATFORM	1	EA
13	2667500	95 BALL KNOB-1-3/8 X 1/2-13	1	EA
14	0071837	TORSION - SPRING	1	EA
15	5010007	HOSE VACUUM .156 ID 4.0MM	.33 FT	EA
16	302555	KNOB ROUND .25-20NC FEMALE-DIM	1	EA
17	0072531	DECAL, ELECTROCUTION HAZ	1	EA
18	0076049-000	DECAL, WIND AND FORCE LIMITS	1	EA
19	0172451	DECAL, ATTACH FALL RESTRAINT	1	EA
20	512224-000	DECAL, SNORKEL	2	EA
21	2572007	BRG .500ID .625OD .625	4	EA

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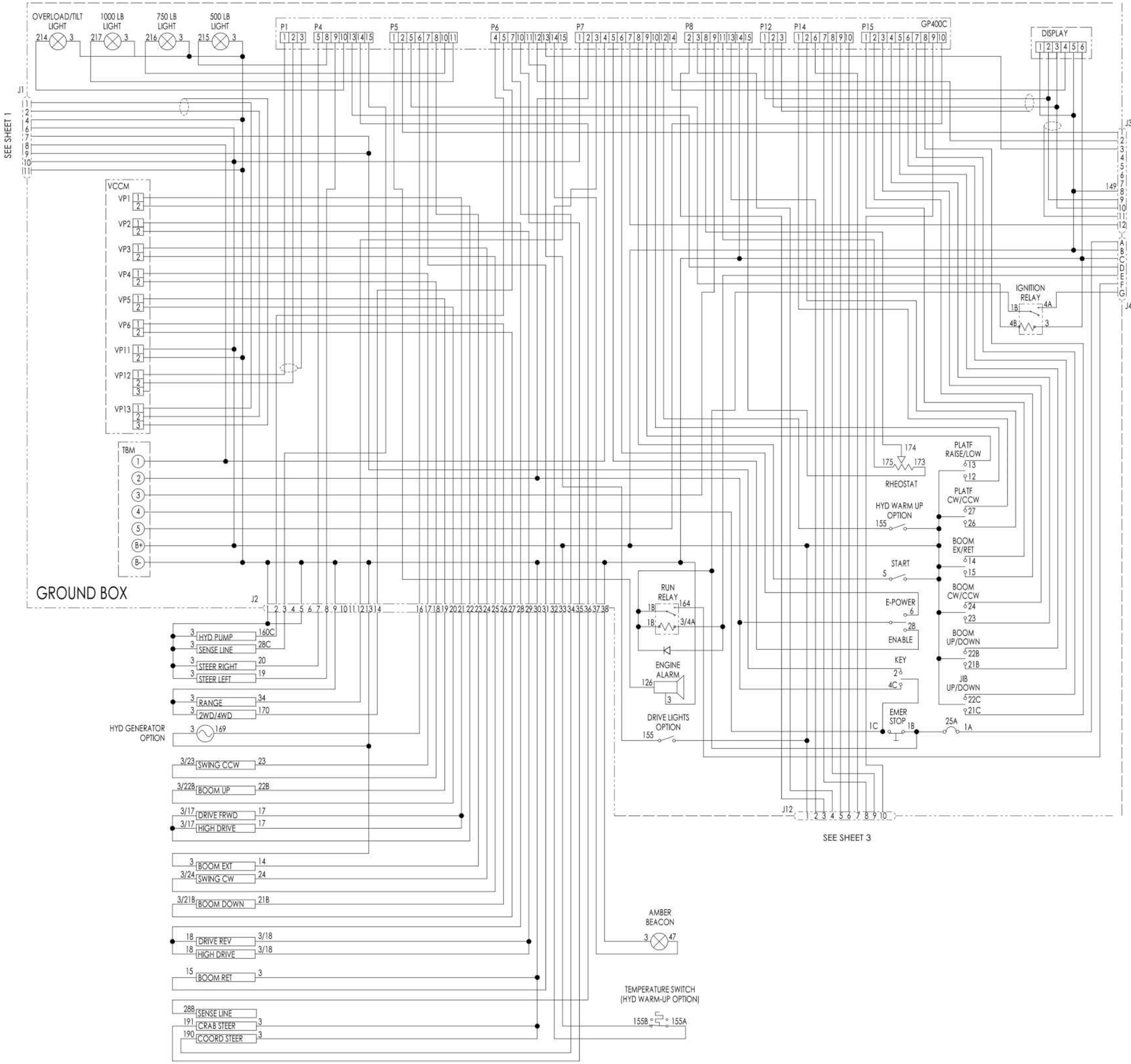
OPTIONS



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GP400 I/O LIST

TERM	I/O TYPE	DESTINATION
P1-1	CAN1H	CANBUS TO VCCM
P1-2	CAN1L	
P1-3	GND	
P4-5	High side PWM output	Steer right
P4-8	High side PWM output	500lb region light
P4-9	High side PWM output	Steer left
P4-10	High side PWM output	Overload (on) / Tilt (flashing) lamp
P4-13	Safe High side output	Starter relay
P4-14	Safe High side output	Load sense dump valve
P4-15	Safe High side output	Dump valve
P5-1	High side PWM output	Engine alarm
P5-2	High side 2A output	Emergency power relay
P5-5	High side 2A output	Ignition power for engine
P5-6	High side 2A output	Generator valve
P5-7	High side PWM output	Boom retract
P5-8	High side PWM output	Boom extend
P5-10	High side PWM output	750lb region light
P5-11	High side PWM output	1000lb region light
P6-4	High side 2A output	jib/basket/steer enable valve
P6-5	High side 2A output	2 wheel drive enable valve
P6-7	High side 2A output	Coordinated Steer valve
P6-10	High side 2A output	Crab Steer valve
P6-11	High side 2A output	Drive Lights
P6-12	High side 2A output	Horn
P6-13	High side 2A output	Motion Alarm
P6-14	High side 2A output	Beacon
P6-15	High side 2A output	Low range drive valve
P7-1	B+ Digital Input	TBM B+ (also used for sw. common)
P7-2	B+ Digital Input	ground select & TBM # 2
P7-3	B+ Digital Input	Hydraulic thermal sw (normal closed (not hot))
P7-4	B+ Digital Input	platform select & TBM #1
P7-5	B+ Digital Input	Enable
P7-6	B+ Digital Input	Emergency power
P7-7	B+ Digital Input	Crankcase pressure switch
P7-8	B+ Digital Input	Engine start
P7-9	B+ Digital Input	platform level up
P7-10	B+ Digital Input	platform level down
P7-12	B+ Digital Input	Hydrolic warm up sw
P7-14	Negative (B-) Digital Input	Engine alarm signal (from Murphy Display)
P8-2	Safe Analog Input	Boom angle sensor #1
P8-3	Analog Input	Boom angle sensor #2
P8-8	Analog Input	Speed adjustment rheostat
P8-9	Analog Input	TBM #3
P8-11	+5V via 1K	supply for speed adjustment pot
P8-13	GND	Angle Transducer Ground
P8-14	GND	TBM B-
P8-15	GND	supply for speed adjustment pot
P12-1	CAN2 H	Murphy Display >> Engine ECU
P12-2	CAN2 L	Murphy Display >> Engine ECU
P12-3	CAN2 gnd	Ground
P14-1	B+ Digital Input	platform rotate CCW
P14-2	B+ Digital Input	platform rotate CW
P14-6	B+ Digital Input	750lb DUAL CAP LIMIT SW (NO)
P14-7	B+ Digital Input	750lb DUAL CAP LIMIT SW (NC)
P14-8	B+ Digital Input	Elevation switch (NO)
P14-9	B+ Digital Input	1000lb DUAL CAP LIMIT SW (NO)
P14-10	B+ Digital Input	1000lb DUAL CAP LIMIT SW (NC)
P15-1	B+ Digital Input	boom extend
P15-2	B+ Digital Input	boom retract
P15-3	B+ Digital Input	swing CW
P15-4	B+ Digital Input	swing CCW
P15-5	B+ Digital Input	boom up
P15-6	B+ Digital Input	boom down
P15-7	B+ Digital Input	jib up
P15-8	B+ Digital Input	jib down
P15-9	B+ Digital Input	Elevation switch (NC)
P15-10	B+ protected Supply	TBM #5 (boost supply)

VCCM I/O LIST

TERM	I/O TYPE	DESTINATION
VP1-1	Valve 1 positive supply	Drive fwd prop. valve
VP1-2	Current control PWM output	
VP2-1	Valve 2 positive supply	Drive reverse prop. Valve
VP2-2	Current control PWM output	
VP3-1	Valve 3 positive supply	Swing CW prop. Valve
VP3-2	Current control PWM output	
VP4-1	Valve 4 positive supply	Swing CCW prop. Valve
VP4-2	Current control PWM output	
VP5-1	Valve 5 positive supply	Boom Lift
VP5-2	Current control PWM output	
VP6-1	Valve 6 positive supply	Boom Lower
VP6-2	Current control PWM output	
VP11-1	12/24V module supply	from TBM B+
VP11-2	GND module supply	from TBM B-
VP12-1	CANH	P1-1 GP400
VP12-2	CANL	P1-2 GP400
VP12-3	GND	Ground
VP13-1	CANH	PP11-1 GP440
VP13-2	CANL	PP11-2 GP440
VP13-3	GND	PP11-3 GP440

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