

## This document covers non-standard parts for Domino's RA45 Use ONLY as a Reference Guide!

MAXON PM procedures and safety precautions in maintenance manual must be followed at all times!  
Maintenance items not shown in this document can be found at the [Maxonlift.com - RA Product Information](#).

MAXON® Maintenance Manuals are found at [www.maxonlift.com](http://www.maxonlift.com). Click link above and use the "PRODUCT DOCUMENTATION" pull down menu in the lower right-hand corner to select "Maintenance Manual".

### Key Features unique to the Domino's RA45, Serial Number: **2003546974 and higher**, covered in this document:

- Power Down & Gravity Down
- Dual Pump/Motor
- Flashing Lights on Lift Arm / Work Lights in Platform
- V-Check Battery Gauge
- Cable/harness routing inside sliding frame



**New Multi-Function Control Switch**



**New Pump w/ Plastic Cover**

Standard parts not shown in this document can be found at the [Maxon Parts Portal.RA Parts List](#).

M-Sheets can be found at [Maxonlift.com - Support - Technical Publications](#). (Select RA liftgate model)

Liftgate charging system owner's manual – [Maxonlift.com – Products - Charging Solutions](#)

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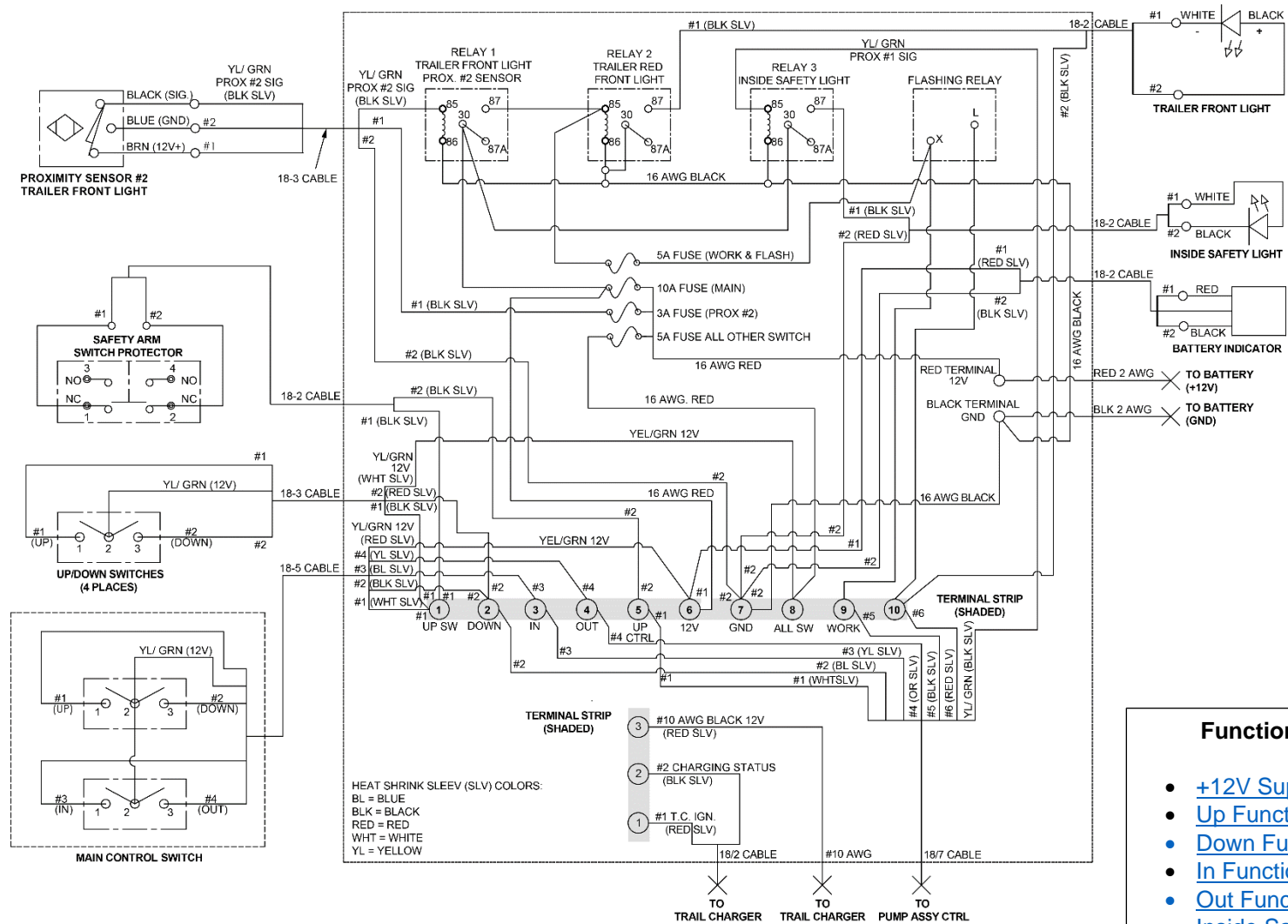
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## System Wiring Schematic – J-Box, Control, Indicators & Lights



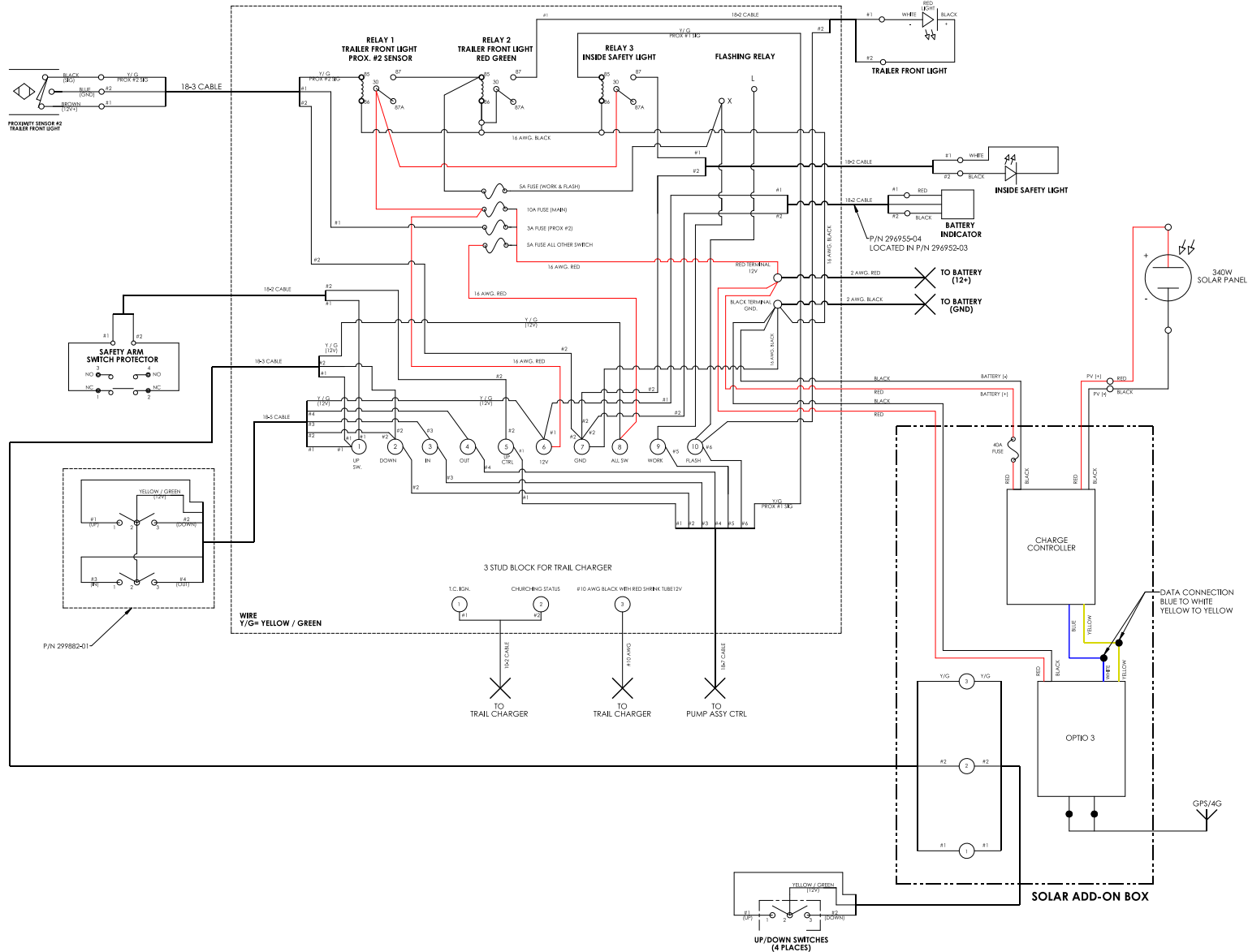
**Function Schematics**

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- [Up Function](#)
- [Down Function](#)
- [In Function](#)
- [Out Function](#)
- [Inside Safety Light](#)
- [Red \(Stowed\) Light](#)
- [Flashing Arm & Work Lights](#)

[Hydraulic Schematic](#)

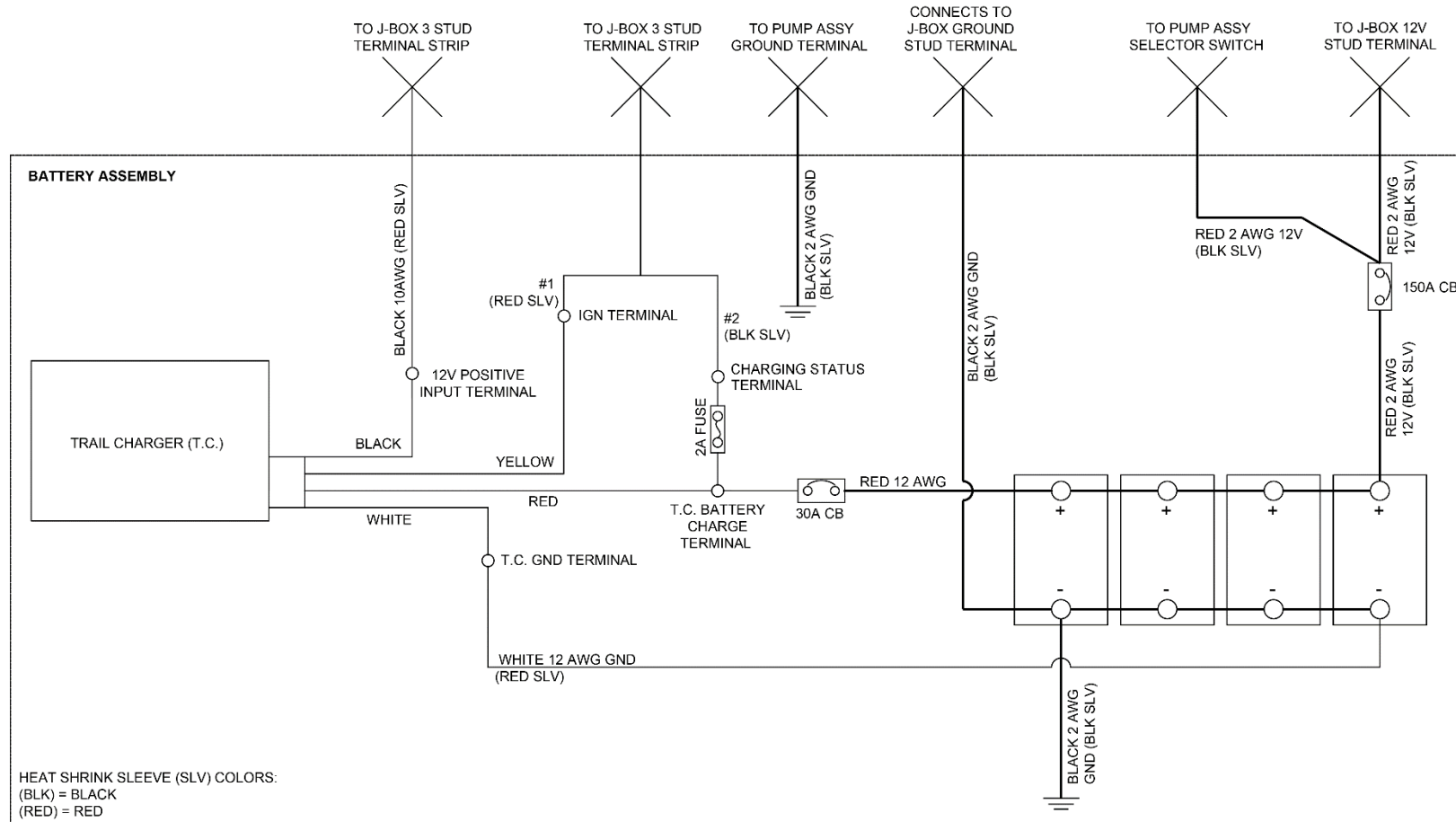
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## System Wiring Schematic – J-Box, Control, Indicators & Lights – with Solar Panel

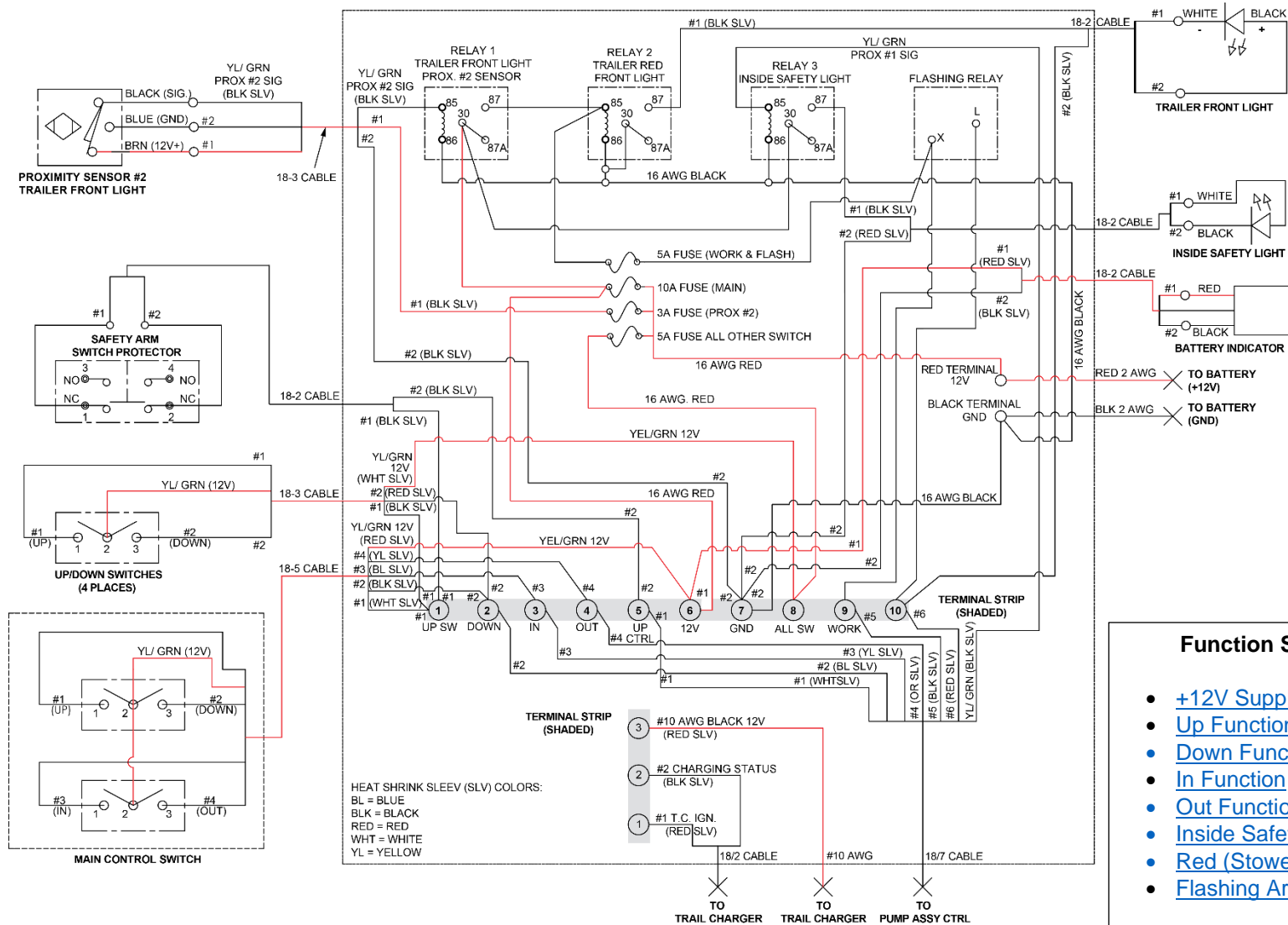




## System Wiring Schematic – Battery Assembly



## Electrical Schematic, +12 VDC Supply Circuit, J-Box



**Function Schematics**

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- [Up Function](#)
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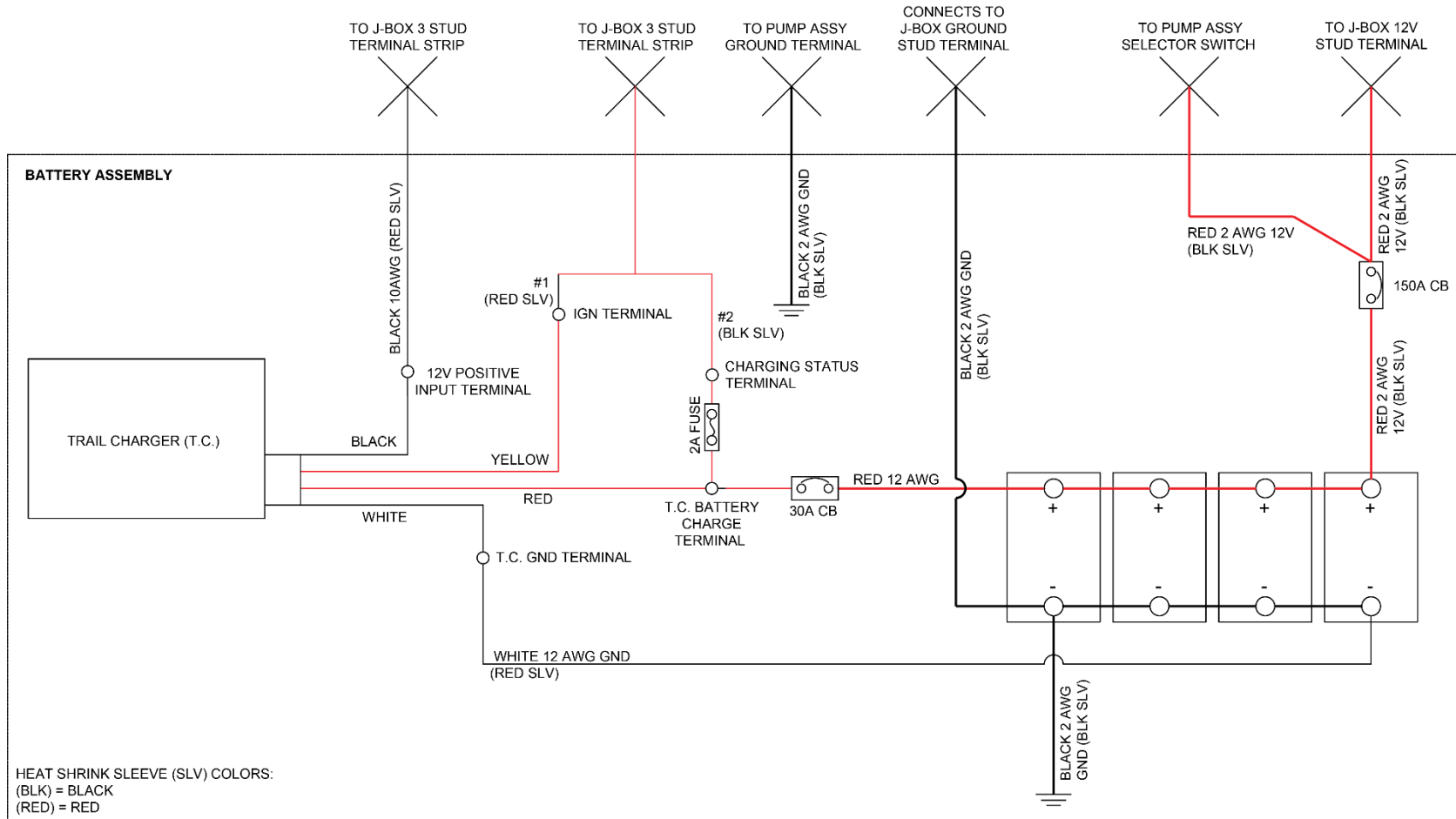
[Hydraulic Schematic](#)



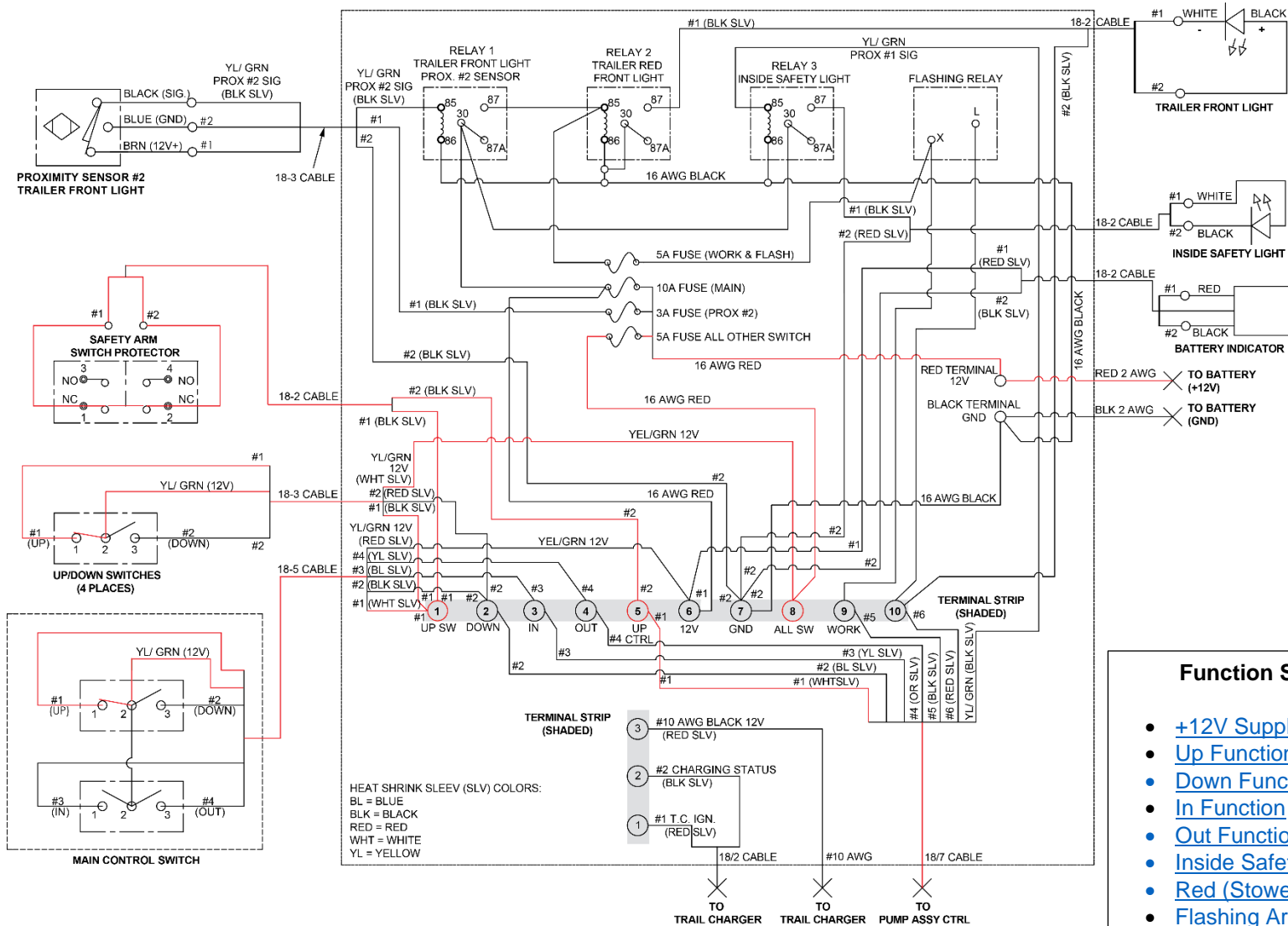


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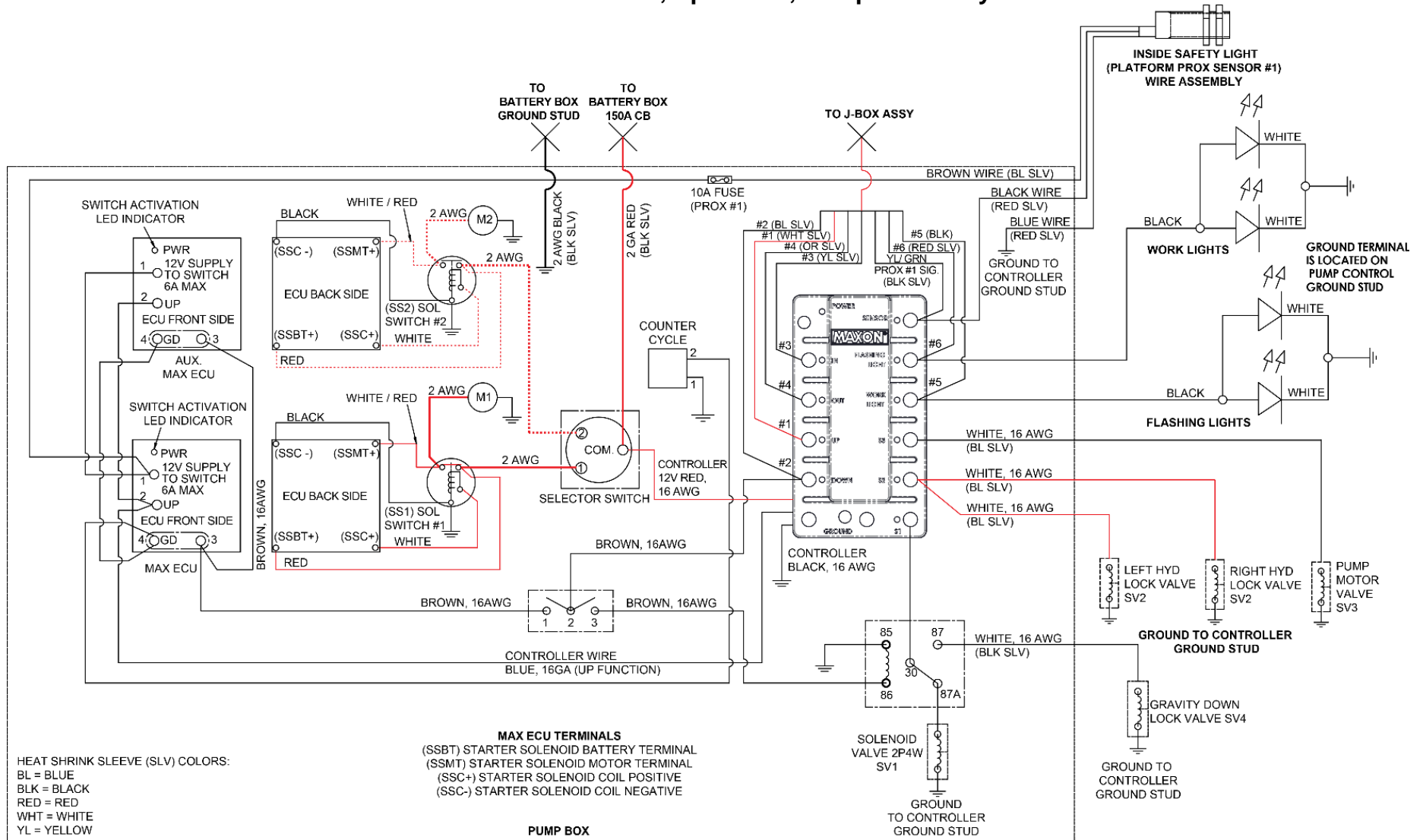
## Electrical Schematic, +12 VDC Supply Circuit, Battery Assembly



## Electrical Schematic, Up Circuit, J-Box

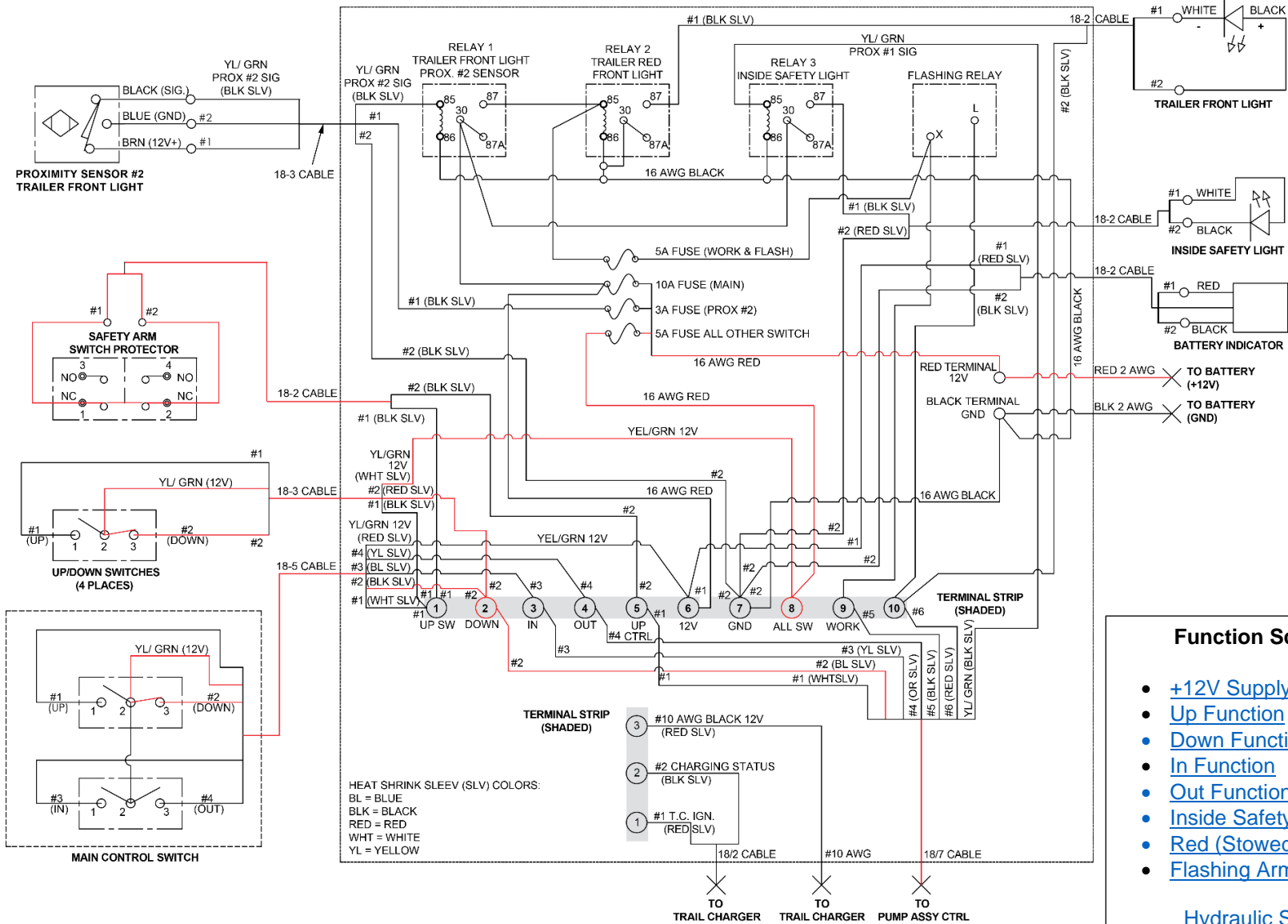


### Electrical Schematic, Up Circuit, Pump Assembly



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### Electrical Schematic, Power Down Circuit, J-Box



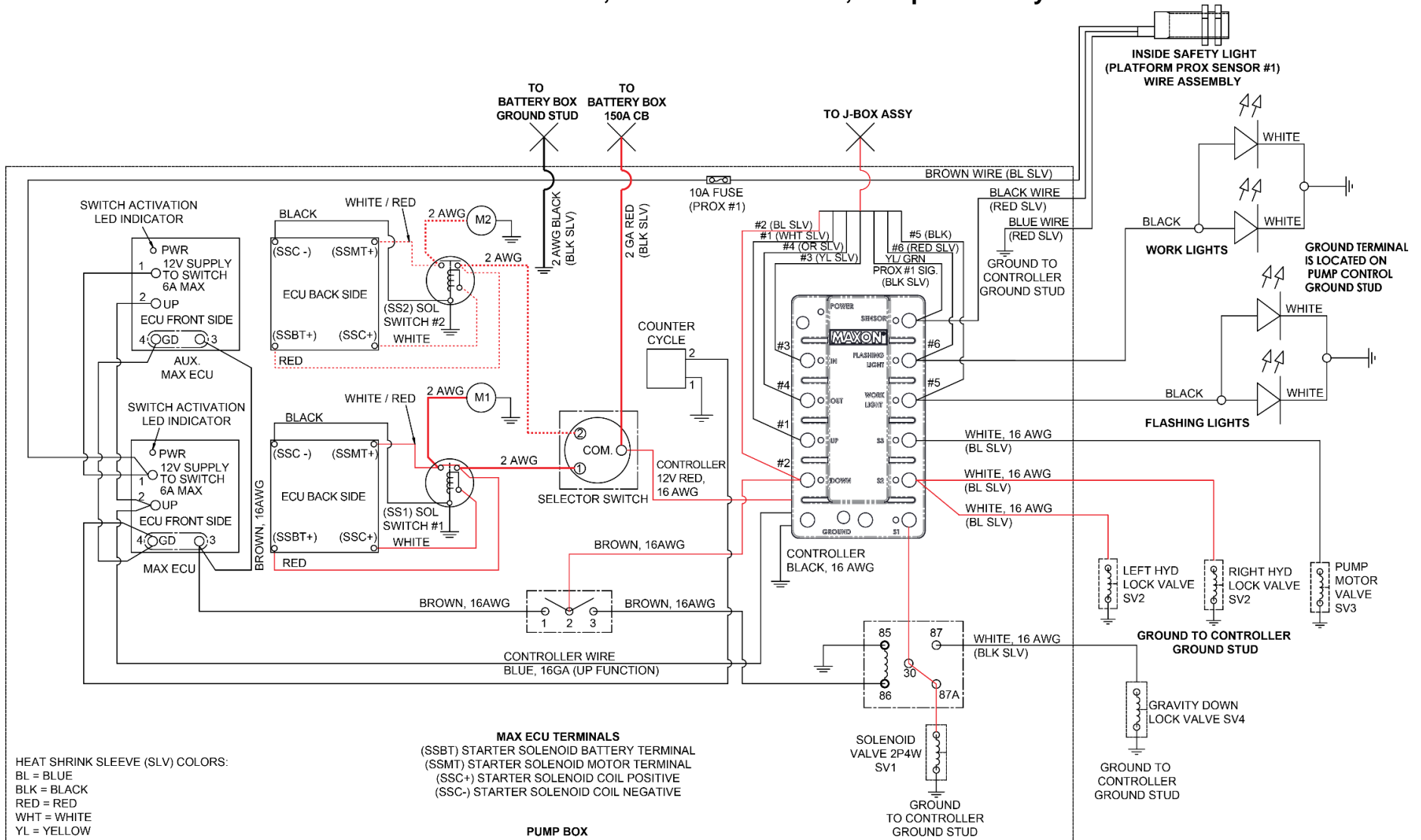
#### Function Schematics

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[Hydraulic Schematic](#)

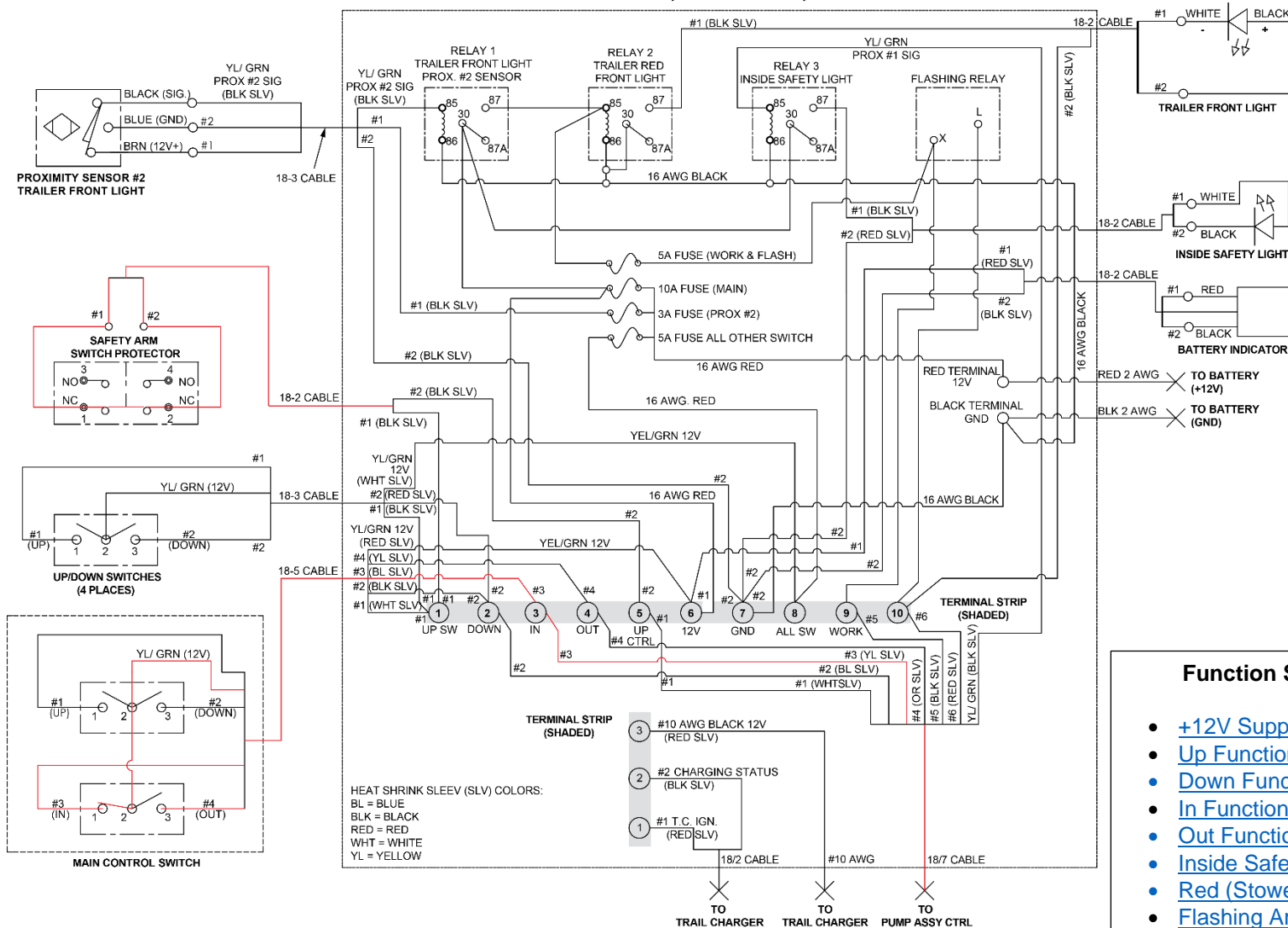
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## Electrical Schematic, Power Down Circuit, Pump Assembly

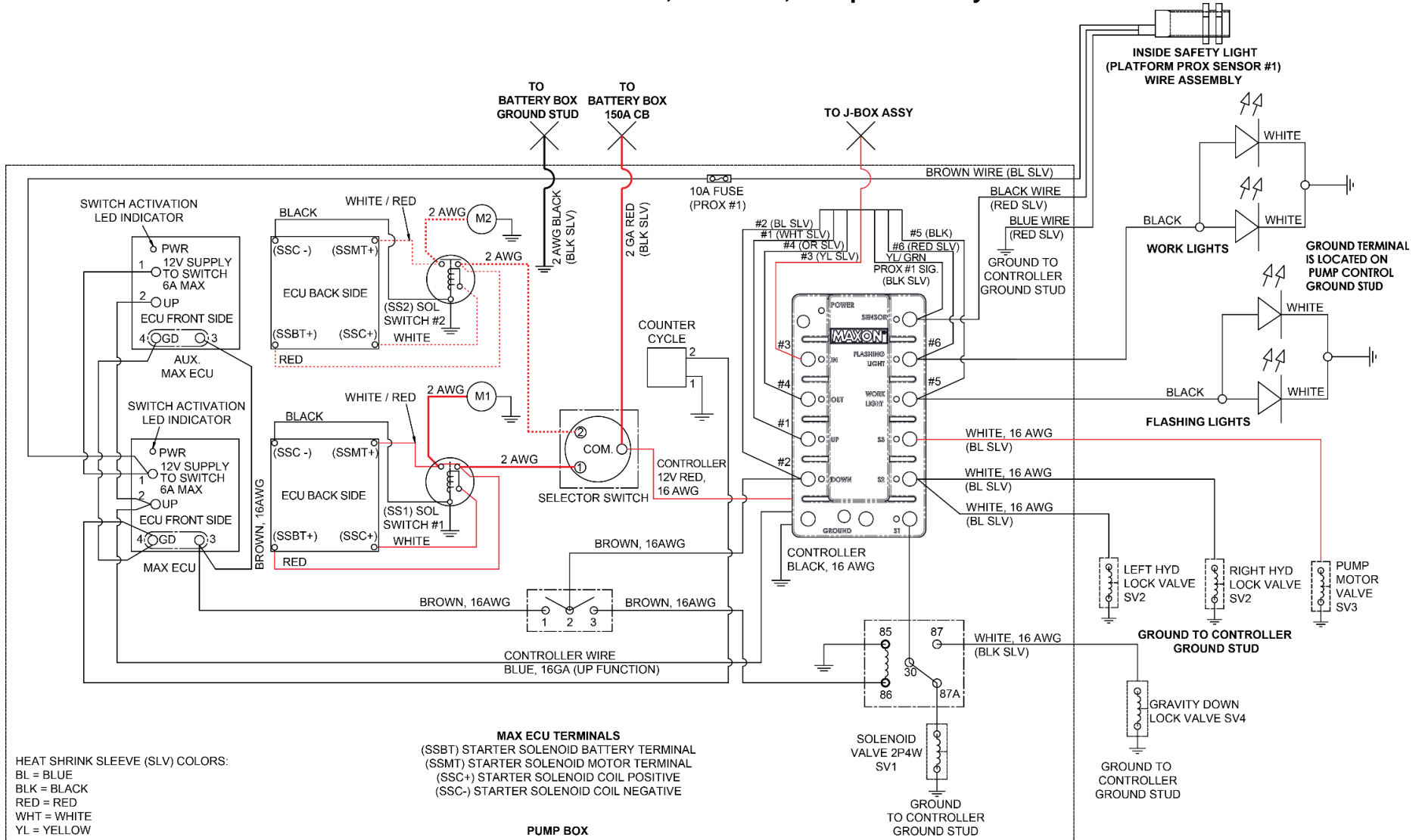


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## Electrical Schematic, In Circuit, J-Box



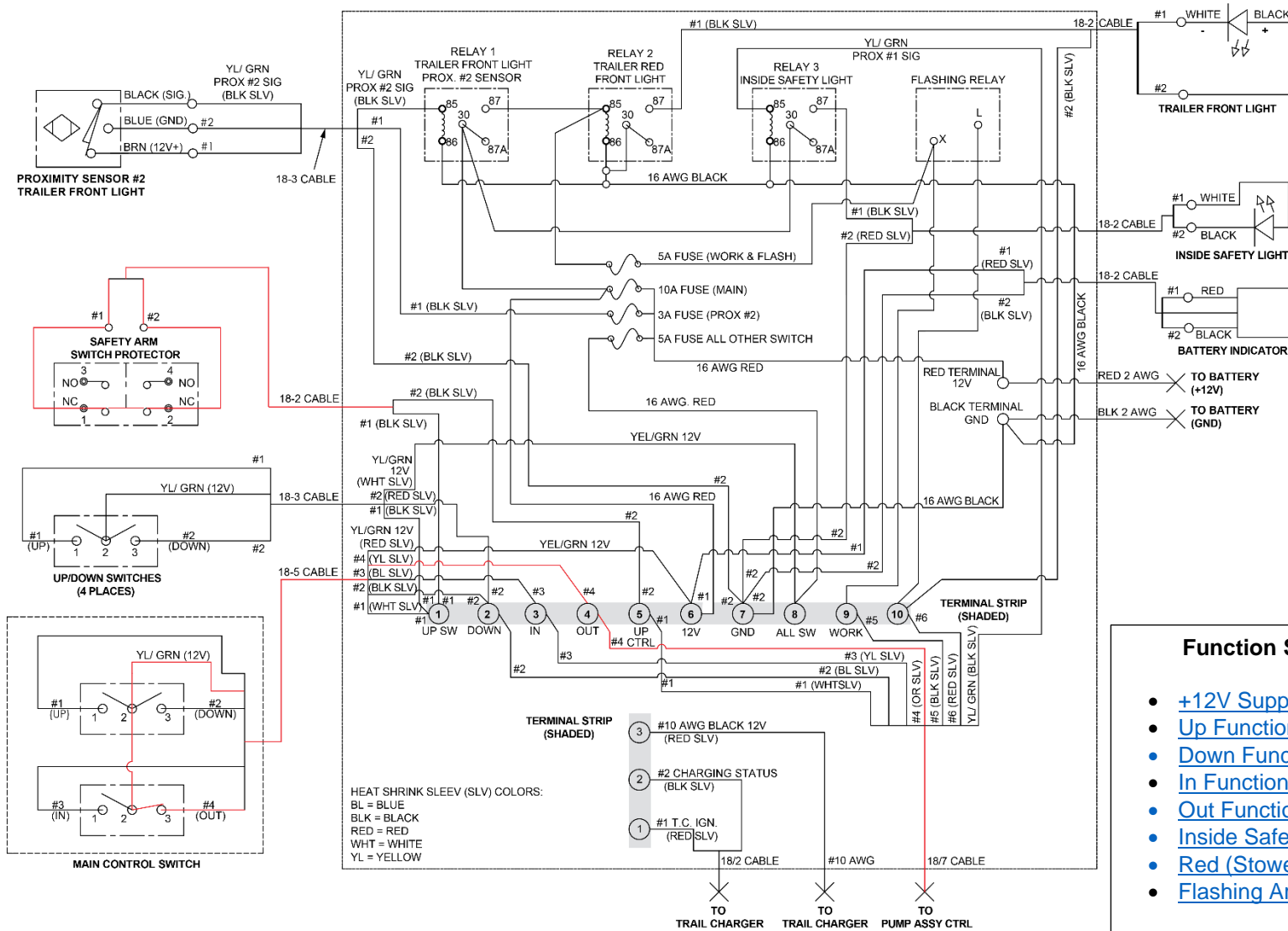
## Electrical Schematic, In Circuit, Pump Assembly





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## Electrical Schematic, Out Circuit, J-Box





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## Electrical Schematic, Red Trailer Front (Stowed) Light & Inside Safety Light, J-Box

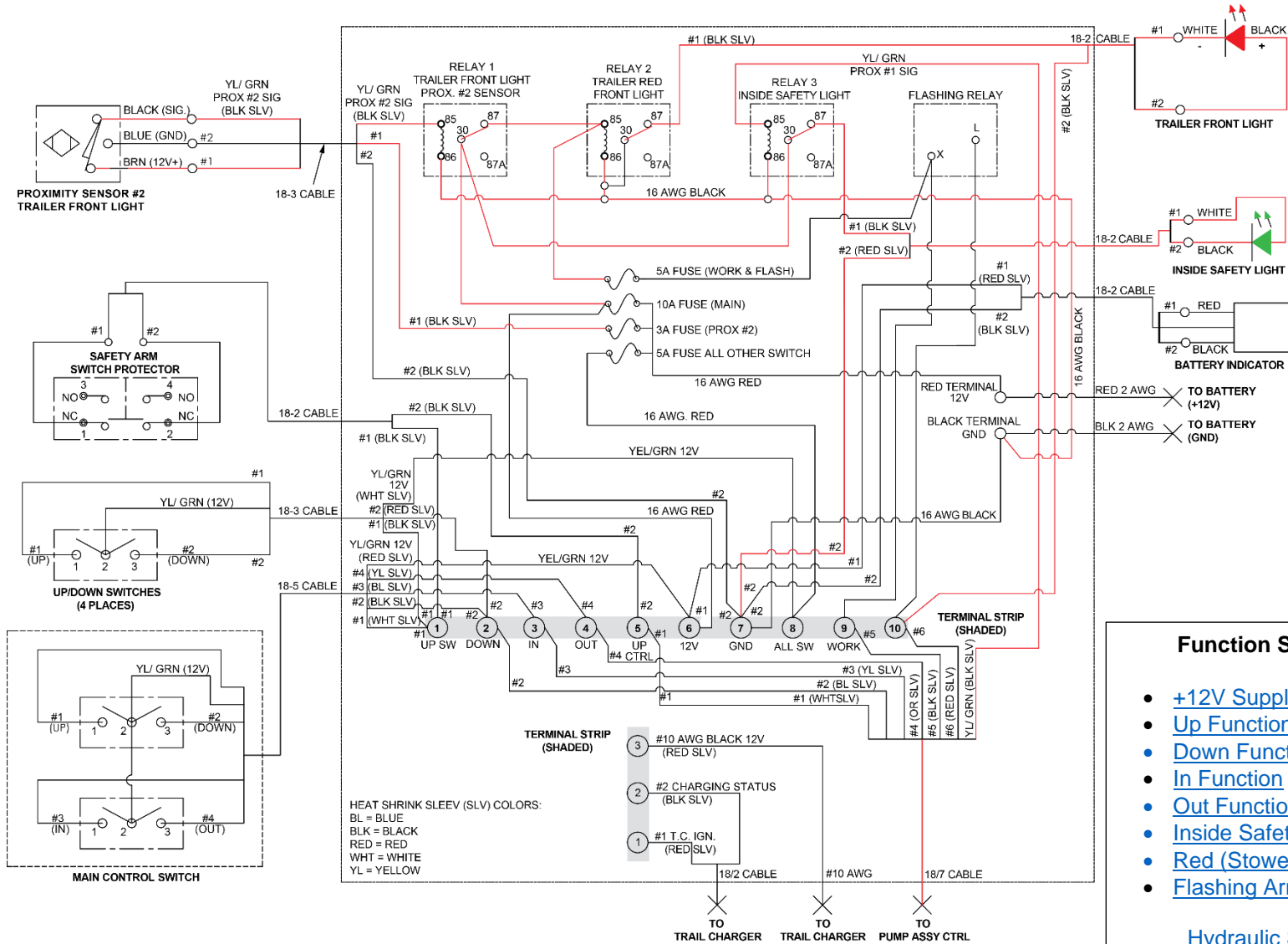
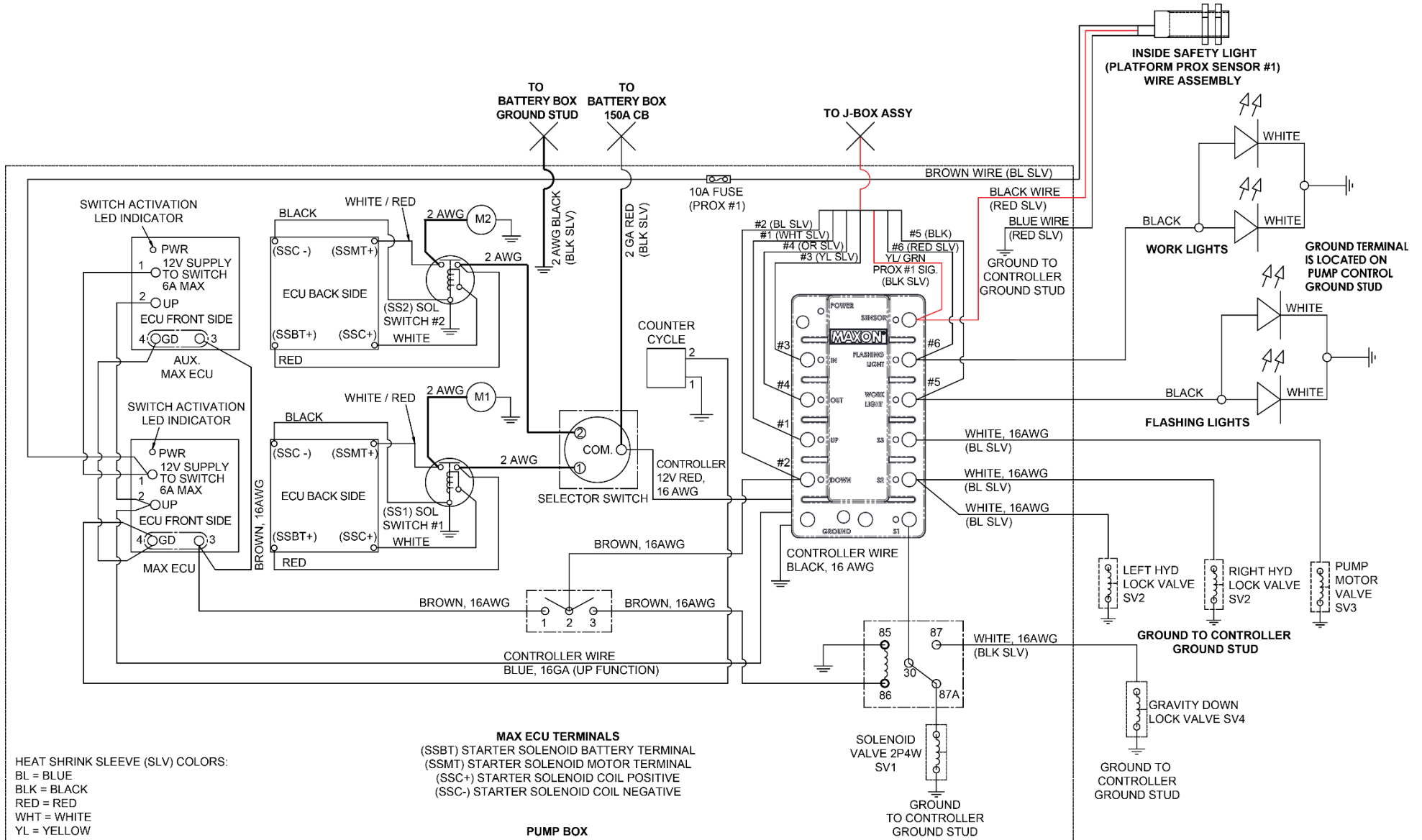


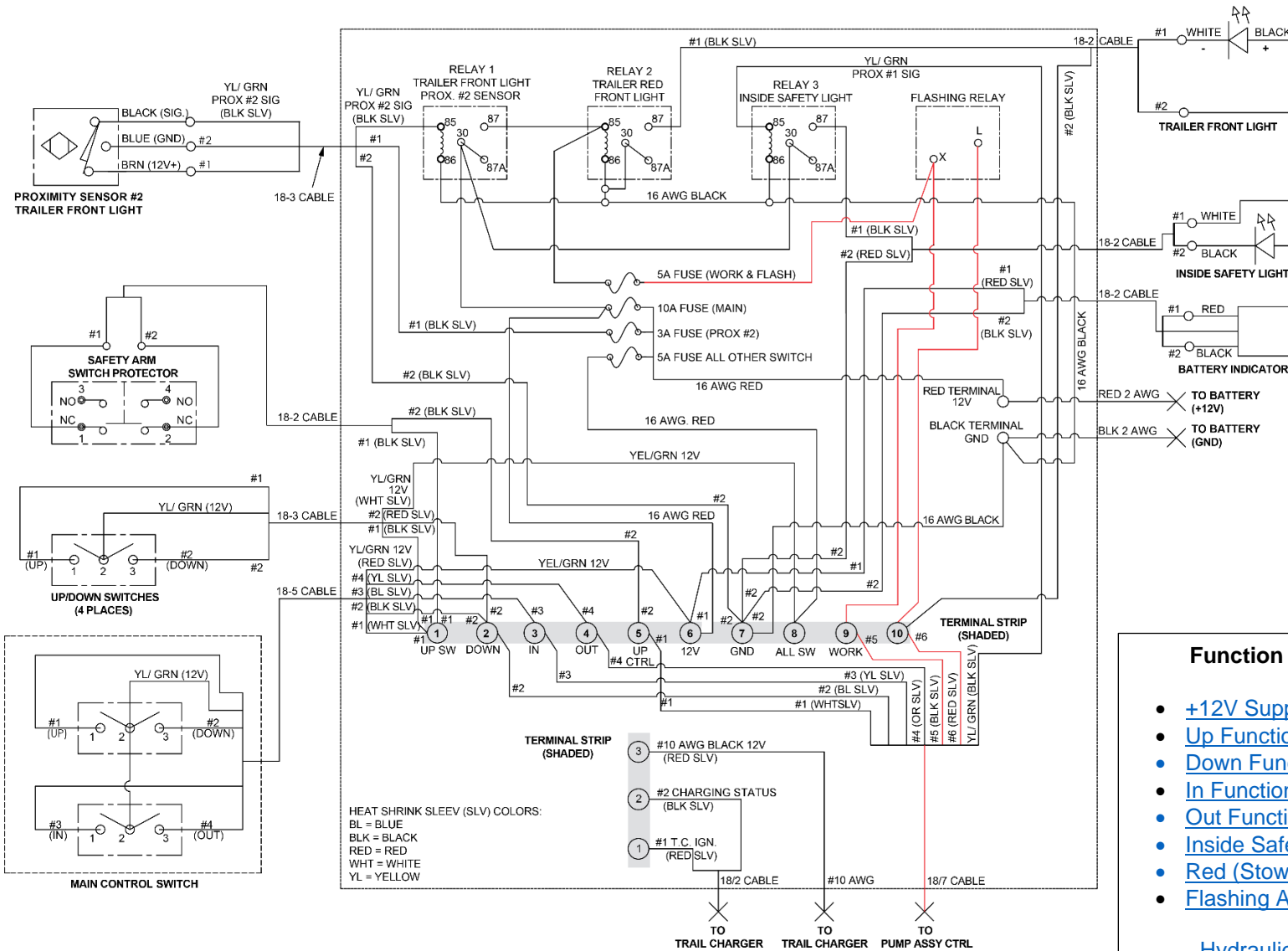
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### Electrical Schematic, Red Trailer Front (Stowed) Light & Inside Safety Light, Pump Assembly



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## Electrical Schematic, Flashing Lights & Working Lights, J-Box



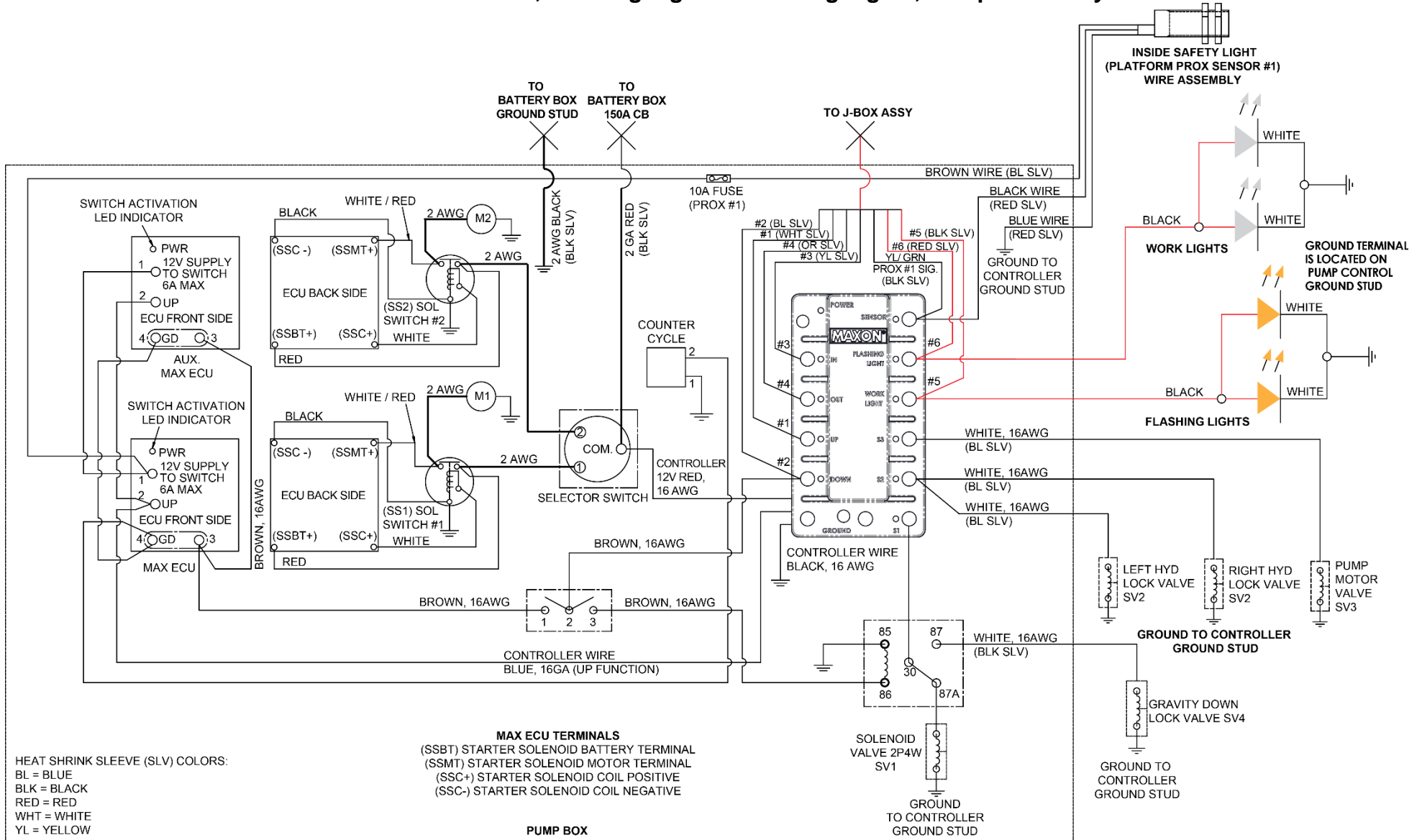
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[Hydraulic Schematic](#)

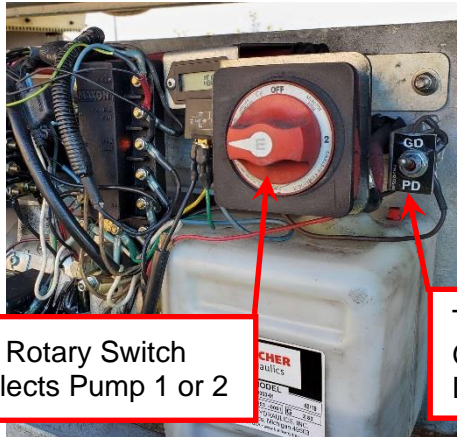
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### Electrical Schematic, Flashing Lights & Working Lights, Pump Assembly



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### Hydraulics: Schematic



Rotary Switch  
Selects Pump 1 or 2

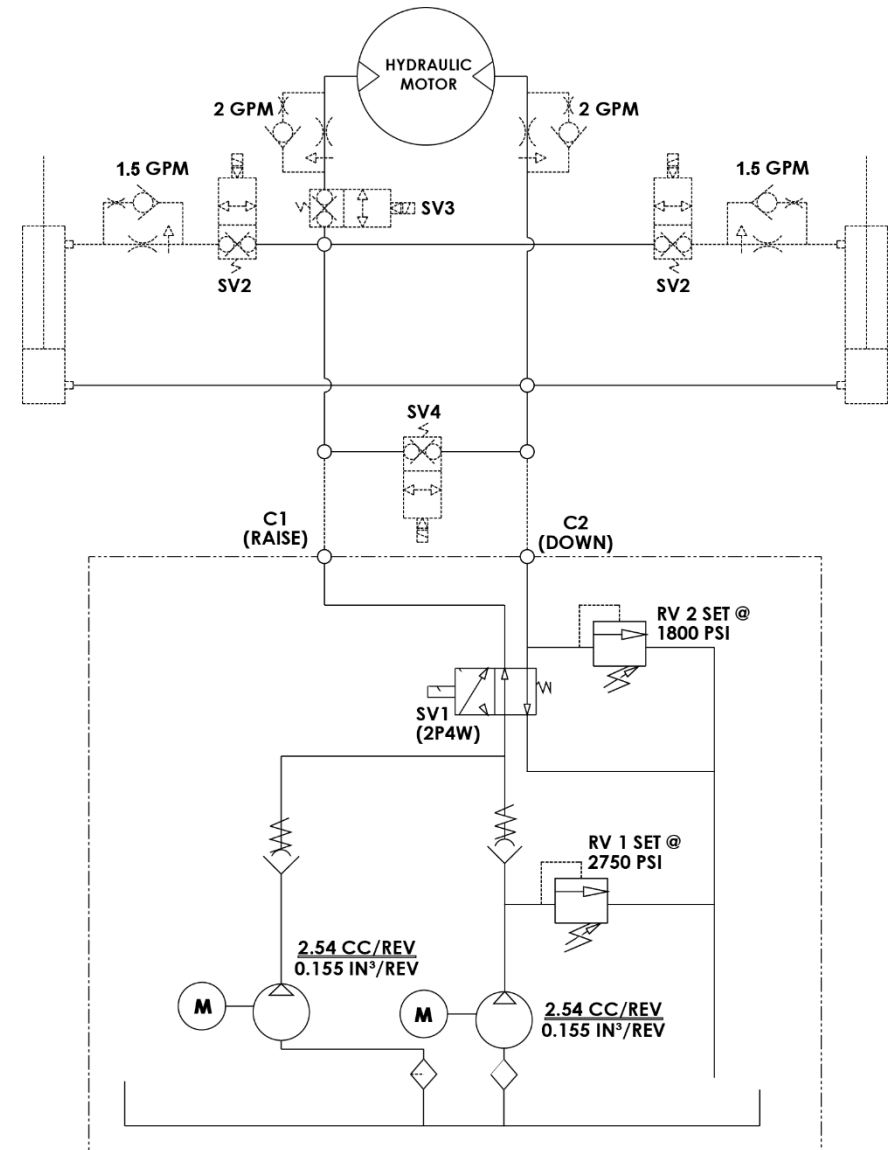
Toggle Switch Selects  
Gravity Down or Power  
Down Operation

Power Unit and Valves Working Diagram					
FUNCTION	SS1/SS2 SOLENOID DRIVER	SV1 4-WAY VALVE	SV2 LOCK VALVE	SV3 HYDRAULIC MOTOR VALVE	SV4 G/D LOCK VALVE
UP	Energized	-	Energized	-	-
GD	-	-	Energized	-	Energized
PD	Energized	Energized	Energized	-	-
IN	Energized	-	-	Energized	-
OUT	Energized	Energized	-	Energized	-

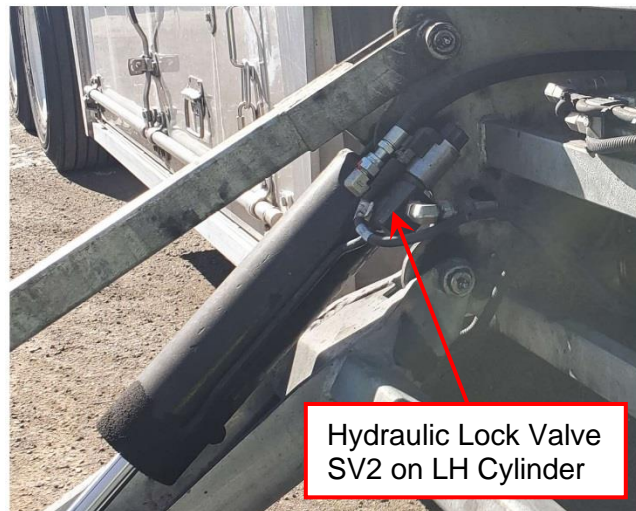
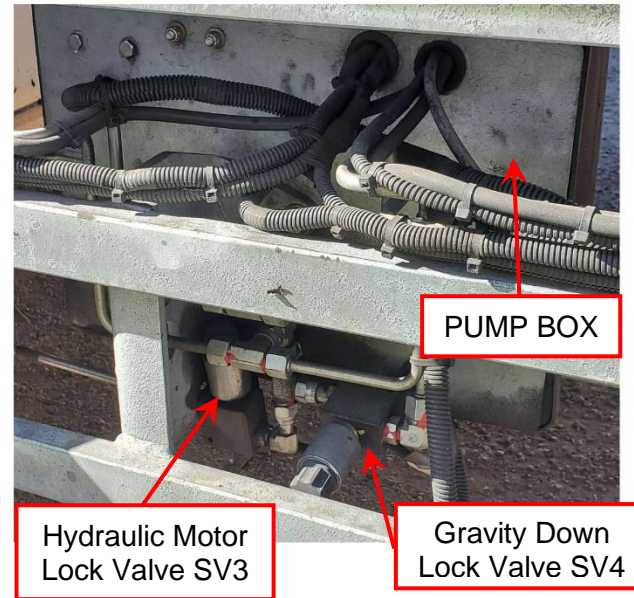
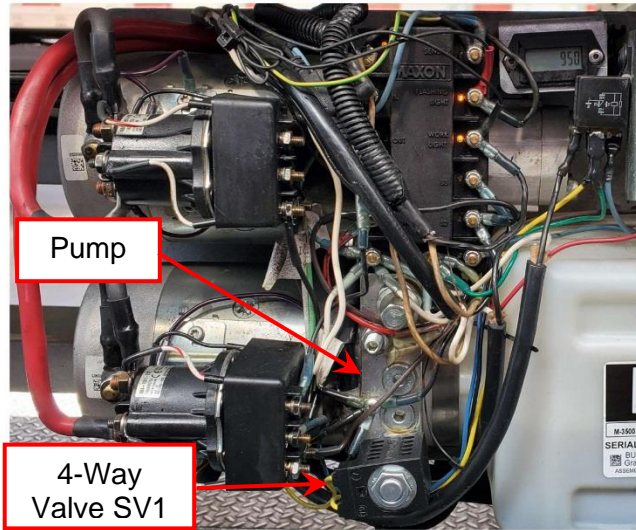
Refer to Valves on Power Unit Hydraulic Schematic

#### Function Schematics

- [+12V Supply](#)
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### Hydraulics: Valve Locations





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## Hydraulic Hose Fitting Torque & Electrical Values, Power Unit

### JIC 37°

Size	Thread	FFWR Method	ft-lb	Nm
-4	1/4"	7/16-20	2	13
-6	3/8"	9/16-18	1-1/2	30
-8	1/2"	3/4-16	1-1/2	57

### ORFS (O-ring face seal)

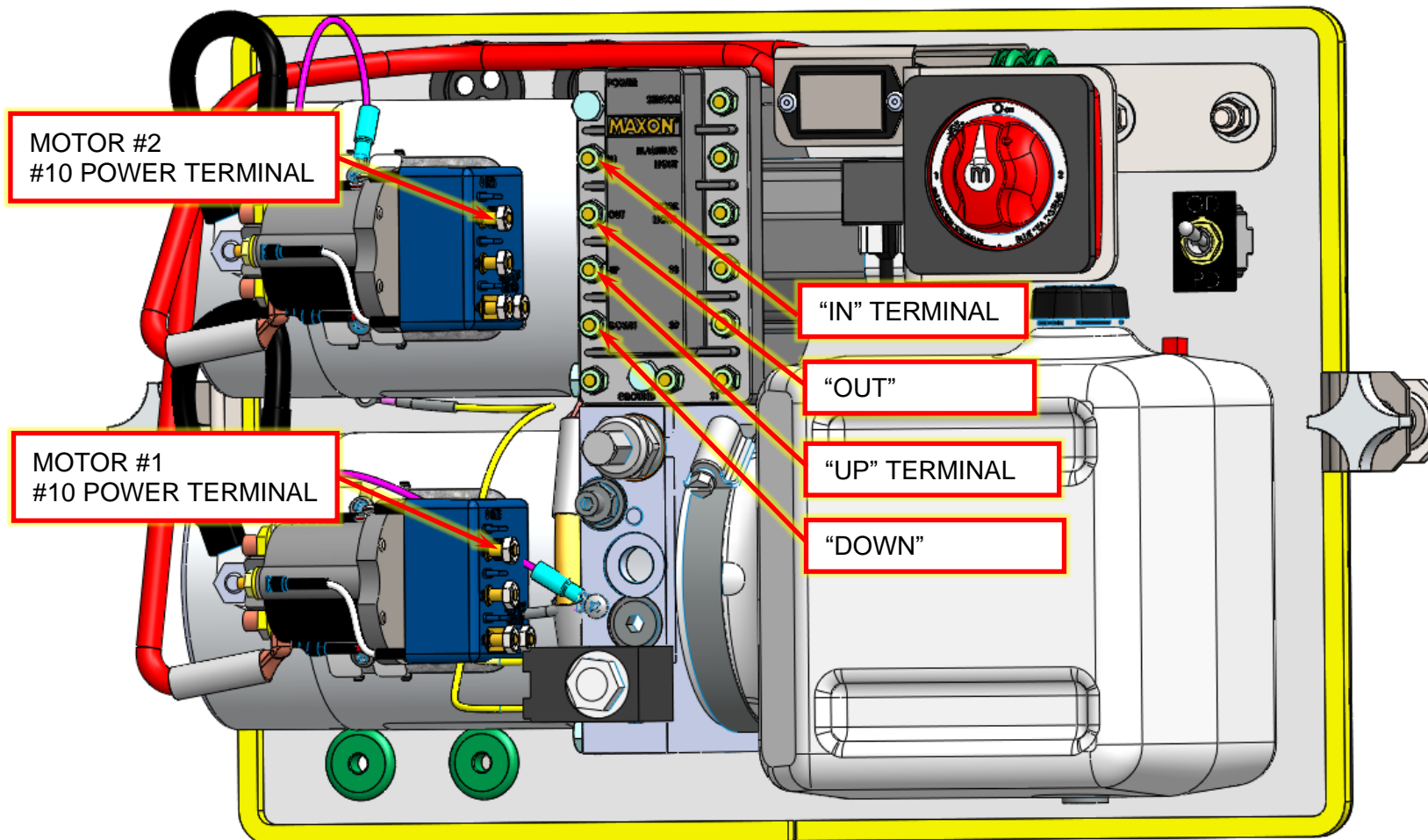
Size	Thread	FFWR Method	ft-lb	Nm
-4	1/4"	9/16-18	1/2 to 3/4	26
-6	3/8"	11/16-16	1/2 to 3/4	42
-8	1/2"	13/16-16	1/2 to 3/4	57

FFWR = Flats From Wrench Resistance

Flats Method Tighten the nut lightly with a wrench (approximately 30 in.lb.), clamping the tube flare between the fitting nose and the sleeve. This is considered the Wrench Resistance (WR) position. Starting from this position, tighten the nut further by the number of flats from Tables above. A flat is referred to as one side of the hexagonal tube nut and equates to 1/6 of a turn.

Motor Solenoid Switch	
Coil Resistance:	5.4Ω @ 70°F. ±15%
Ampere: (Across #10 coil terminal studs)	2.2A @ 12.5V
#10 Coil terminal torque: 10-15 lb.-in max. 5/16" Contact terminal torque: 30-35 lb.-in max.	
Hyd. Solenoid Valves (SV1)	
Coil Resistance: (Across male quick connects)	4.0Ω @ 70°F. ±15%
Ampere:	3.1A @ 12.5V / 2.5A @ 10V
Coil nut torque: 15-45 lb-in Valve cartridge torque: 25-30 lb.-ft max.	
Hyd. Sol. Lock Valves (SV2, SV3, SV4)	
Coil Resistance:	8.0Ω @ 70°F. ±15%
Ampere:	1.5A @ 12.5V
Coil nut torque: 3-4.5 lb-ft Valve cartridge torque: 18.5-22 lb-ft max.	
Relays (5 pin)	
Coil Resistance: (Across terminals 85 & 86)	90Ω @ 70°F. ±10%
Ampere:	133mA @ 12V

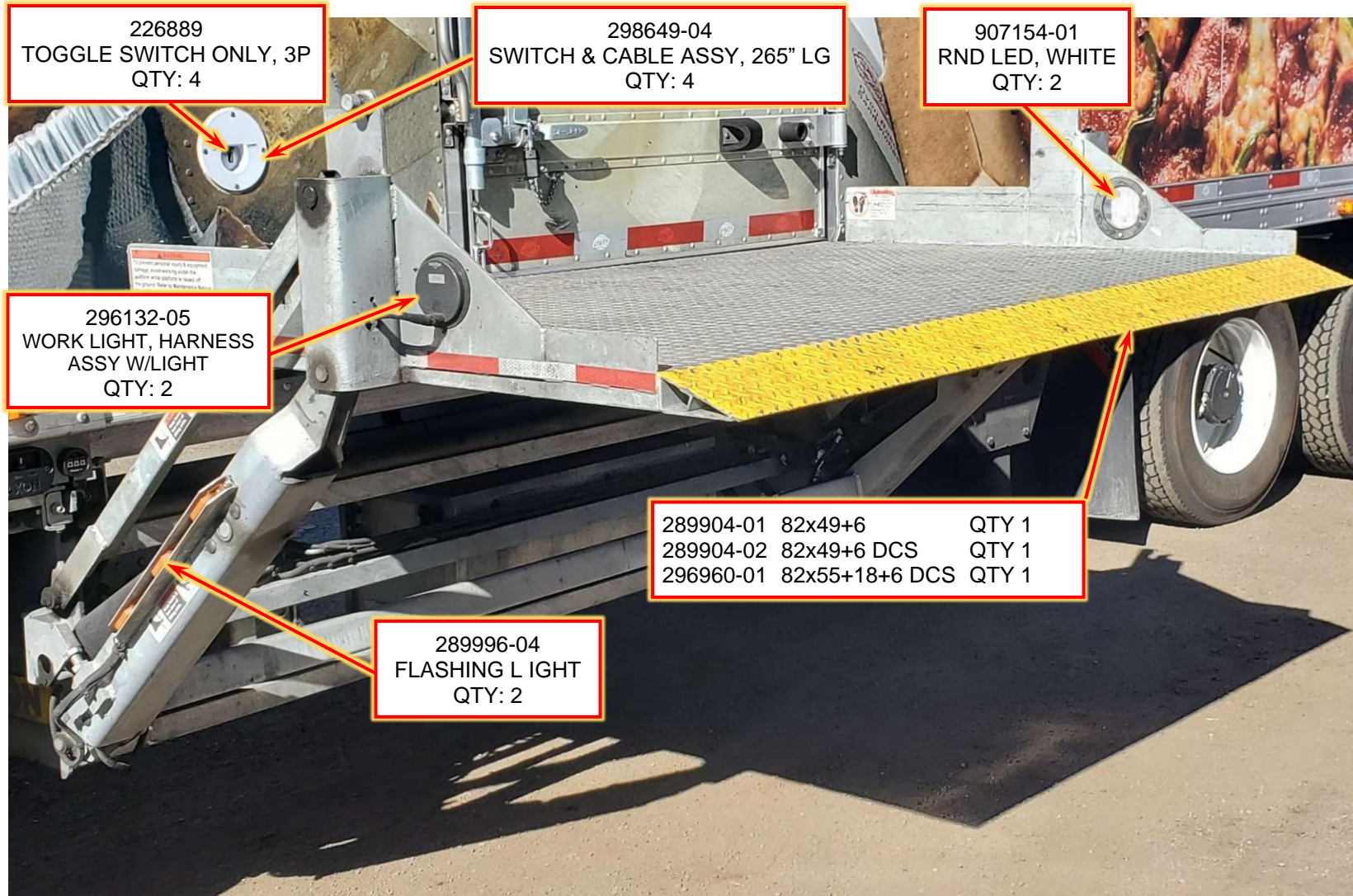
## Emergency Bypass for Harness and Switches Failures



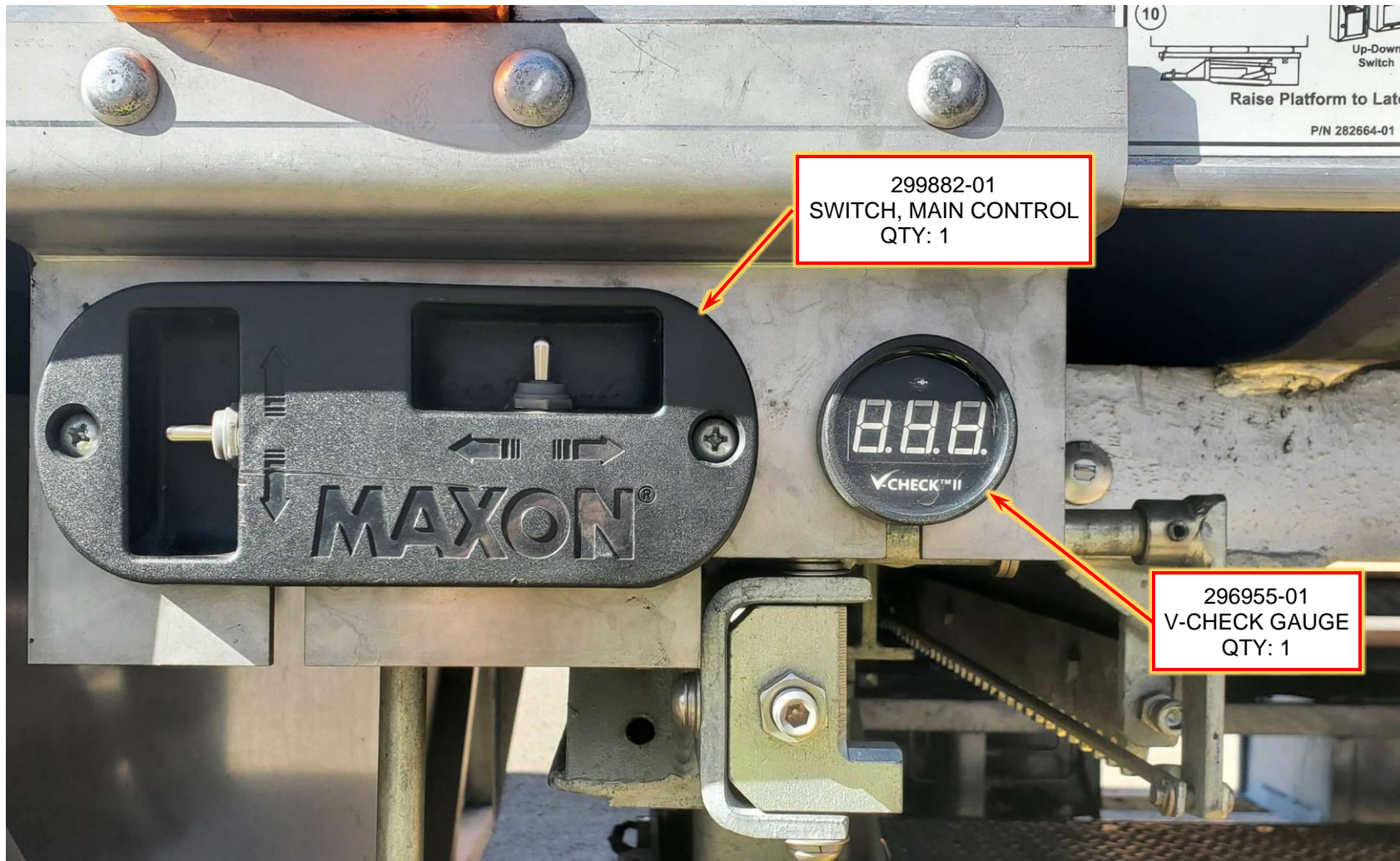
Remove plastic pump box cover and jump 12-volt power from the #10 power terminal of the selected motor to the terminal of desired function on the left hand side of the controller.

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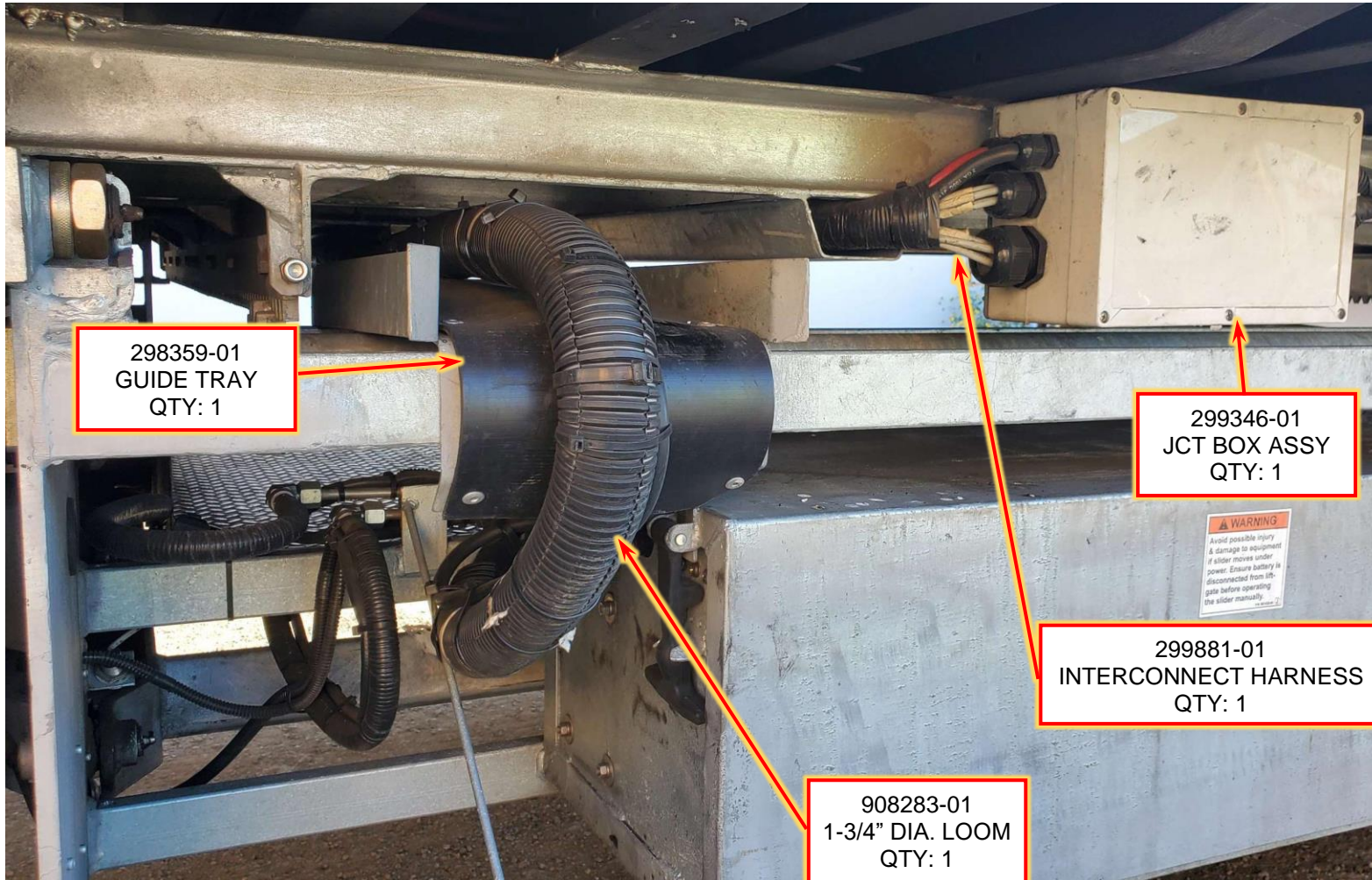
### Parts: Platform Lights and Wall Switch



### Parts: Main Switch and V-Check

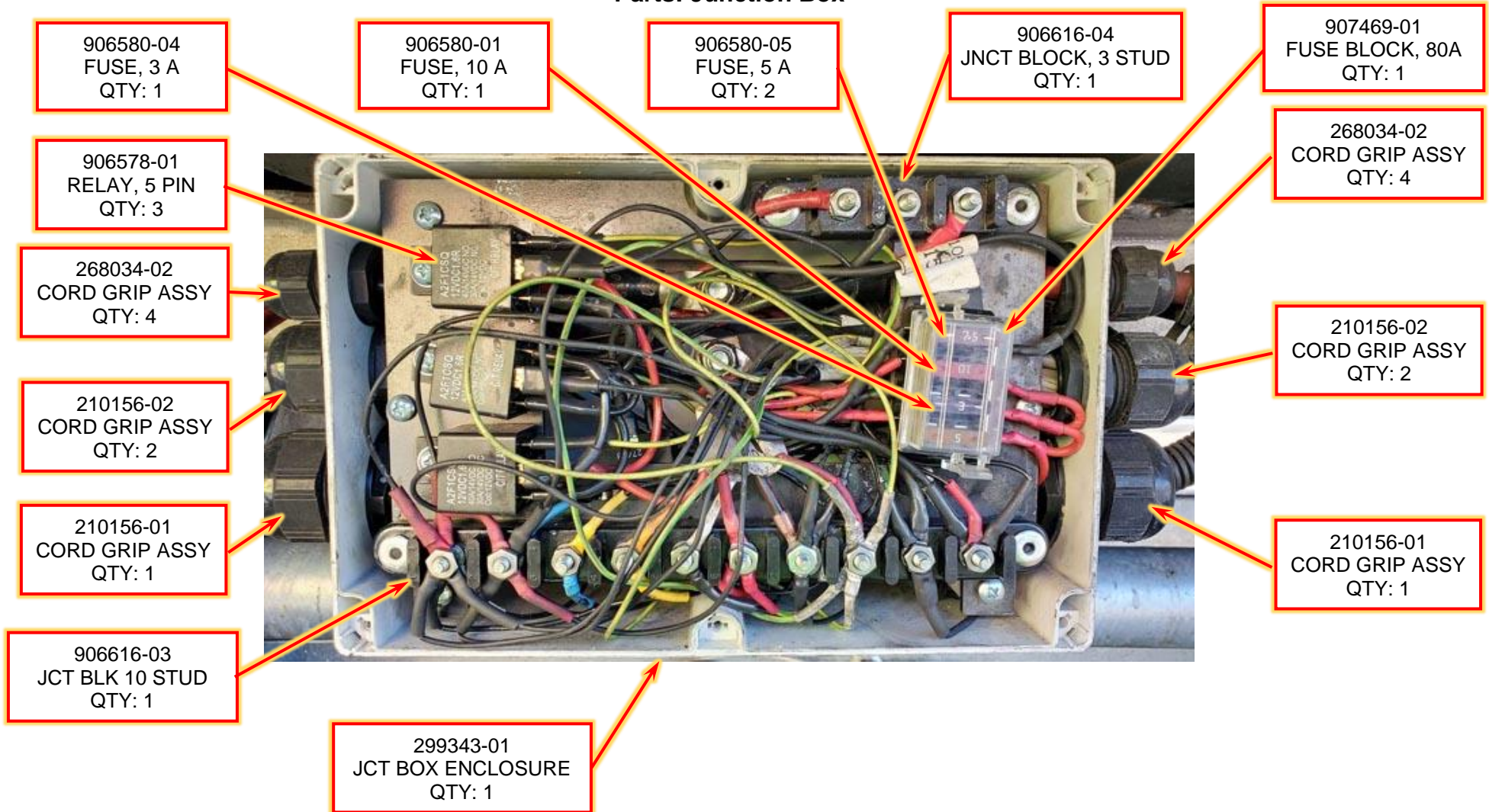


### Parts: Harness Loom & Junction Box Assembly

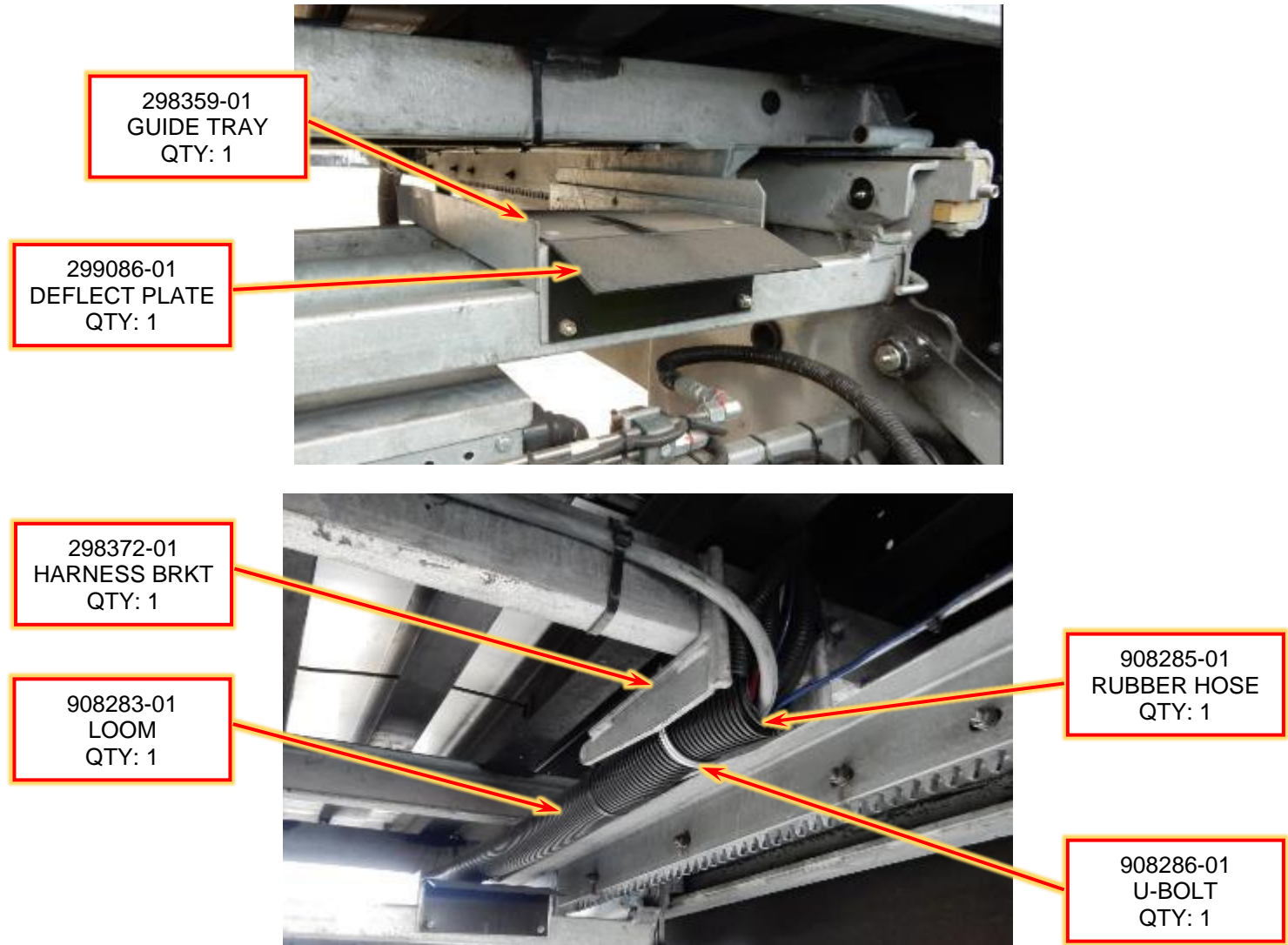


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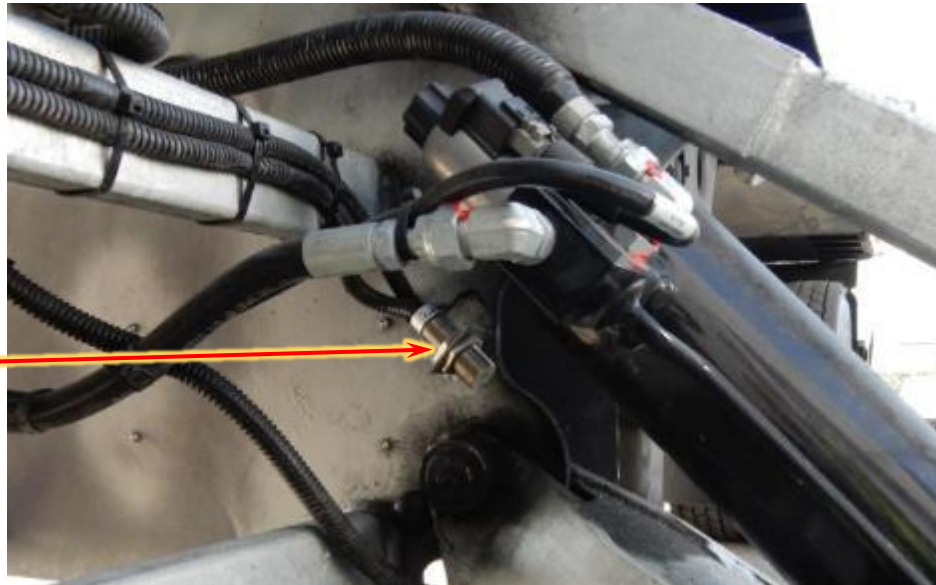
### Parts: Junction Box



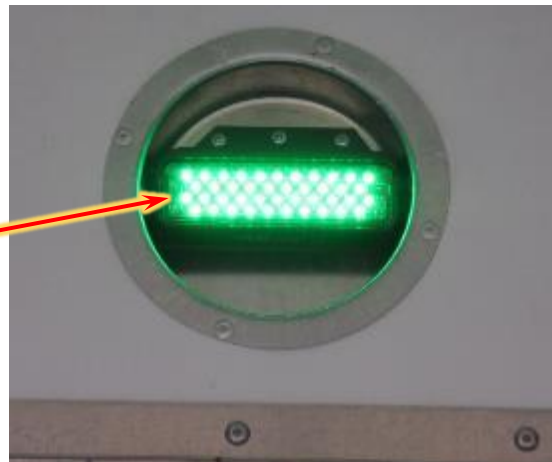
## Parts: Harness Guide & Holder



## Parts: Inside Safety Light & Proximity Switch



906556-01  
PROX SENSOR  
QTY: 1

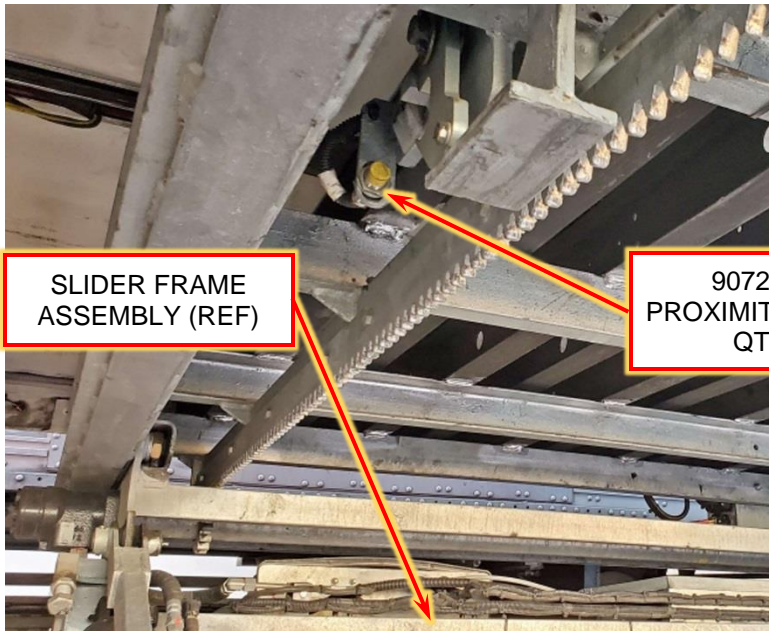


297053-01  
GRN LED LIGHT  
QTY: 1

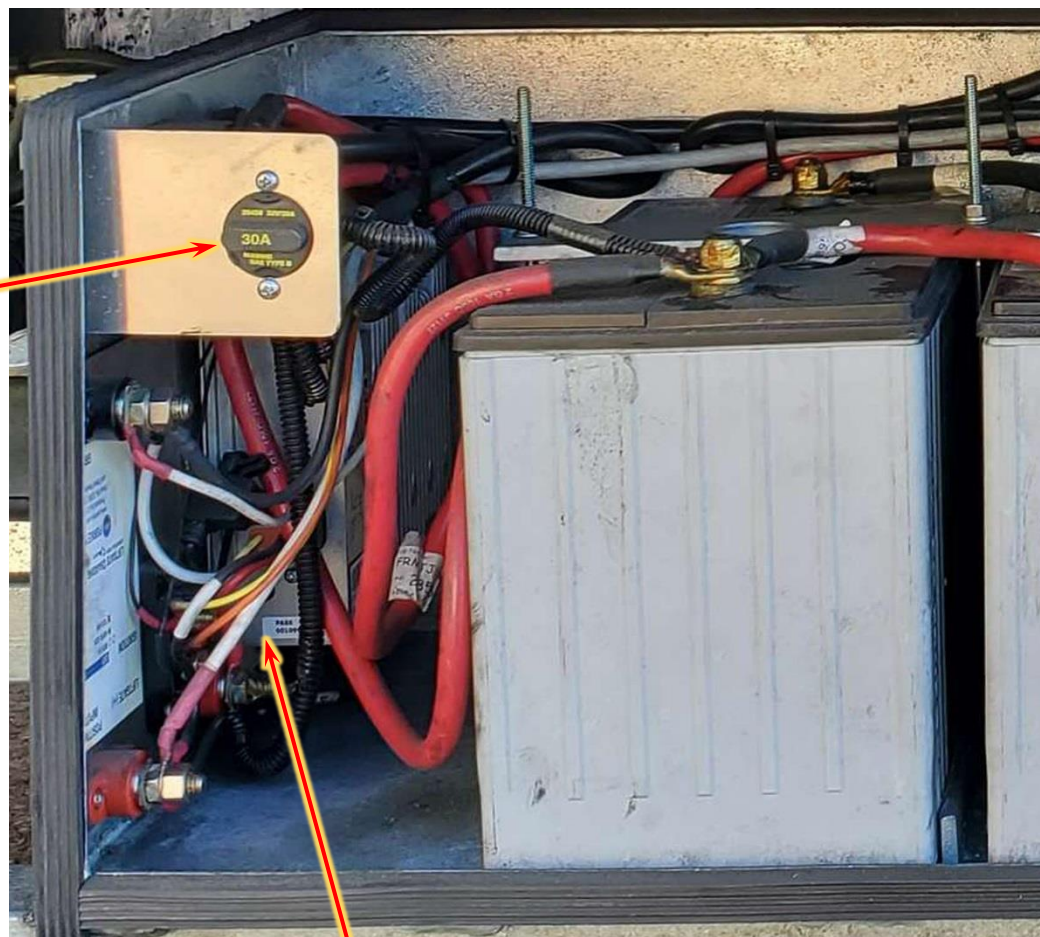


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### Parts: Stored Warning Light at Trailer Front



### Parts: Battery Box and Charging



286198-01  
CKT BKR 30A & BRKT  
QTY: 1

906484-01  
DC/DC CONVERTER  
QTY: 1

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### Parts: Pump Box, Cycle Counter & Selector Switches

210019-01  
CONTROLLER, DUAL PUMP  
QTY: 1

297269-01  
DIGITAL CYCLE COUNTER  
QTY: 1

906578-01  
RELAY, 12VDC, 5 PIN  
QTY: 1

288102-01  
PUMP SELECTOR SWITCH  
QTY: 1

288004-01  
PWR UNIT, DUAL PUMP  
QTY: 1

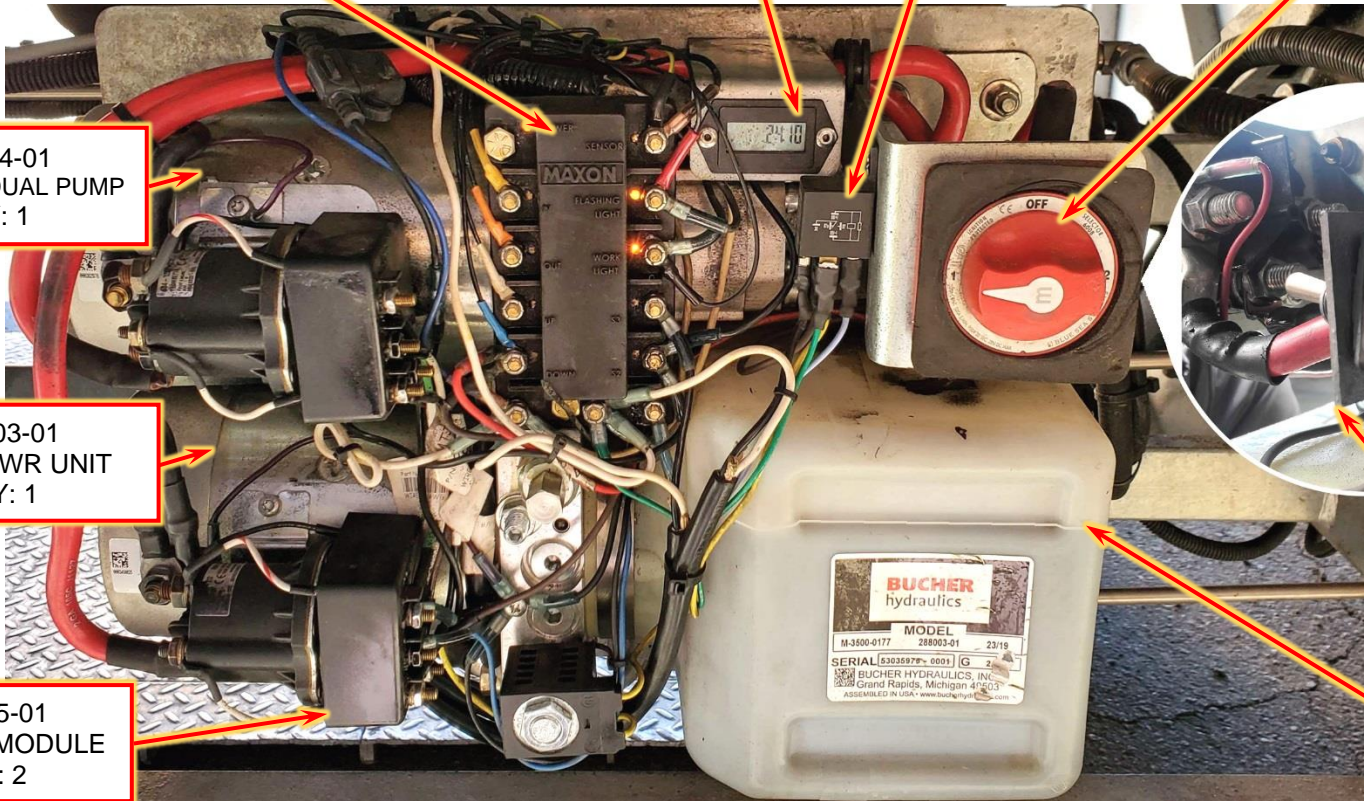
9072907-01  
SWITCH 2 POS  
(GD/ PD)  
QTY: 1

288003-01  
12 VDC PWR UNIT  
QTY: 1

282775-01  
DECAL, GD/PD  
QTY: 1

297135-01  
MAX ECU MODULE  
QTY: 2

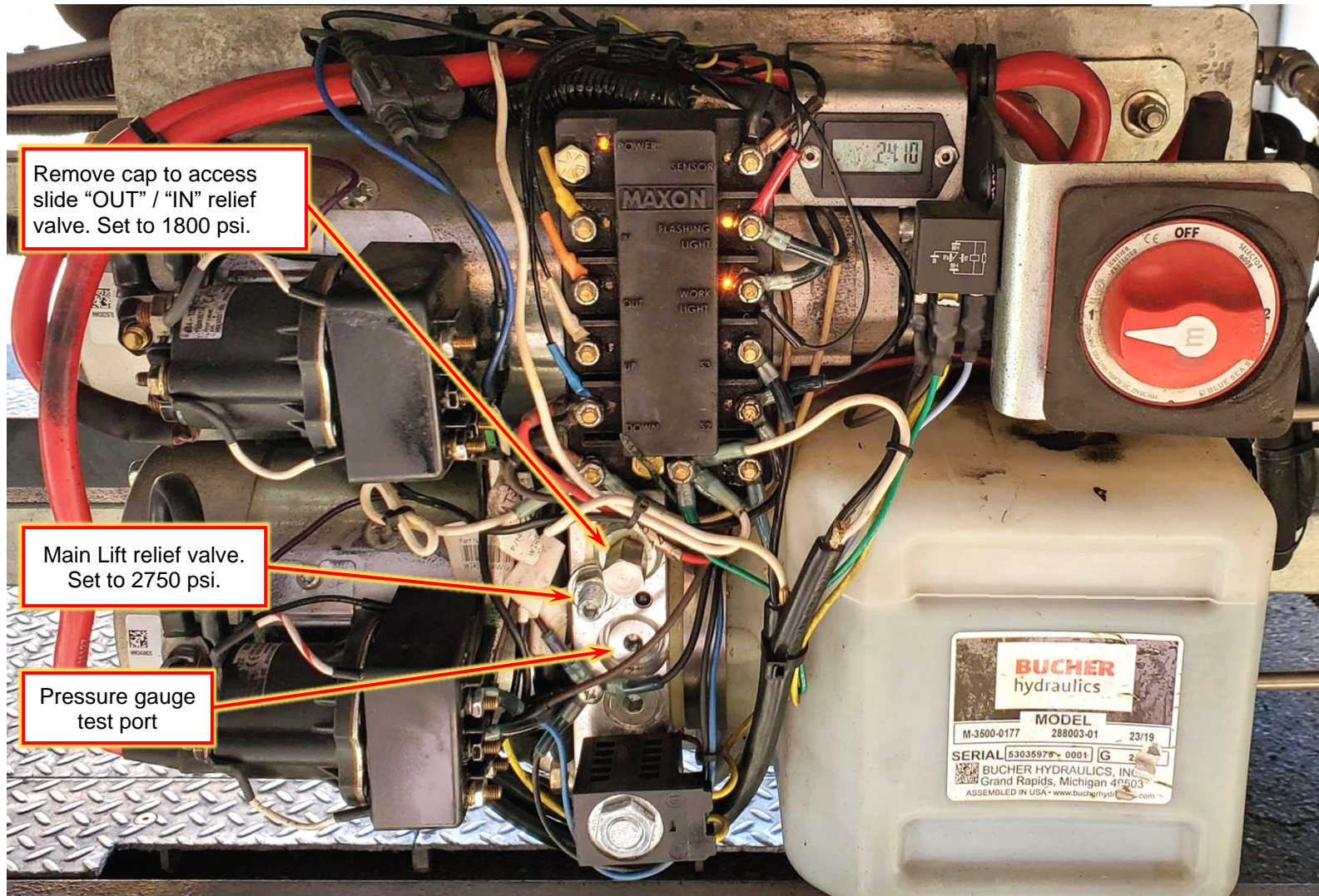
FLUID LEVEL IN  
RESERVOIR



**Hydraulic Fluid Level:**  
Check hydraulic fluid level in reservoir with Liftgate platform stowed. Top level of fluid should be visible at 3-3/4" above bottom of the reservoir.

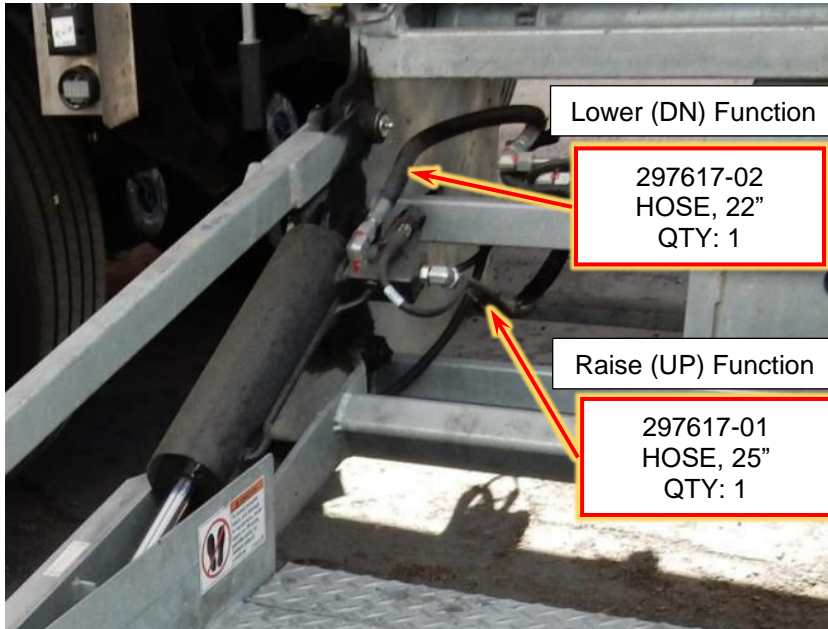
**Note:** Liftgate is supplied with Exxon Univis HVI 13 from the factory. See oil table in Maintenance manual for compatible ISO 15 hydraulic oils.

### Hydraulics: Pressure Relief Valve Location and Setting



## Parts: Hydraulic Hoses

Left Hand side (Rear of trailer)



Right Hand side (Front of trailer)

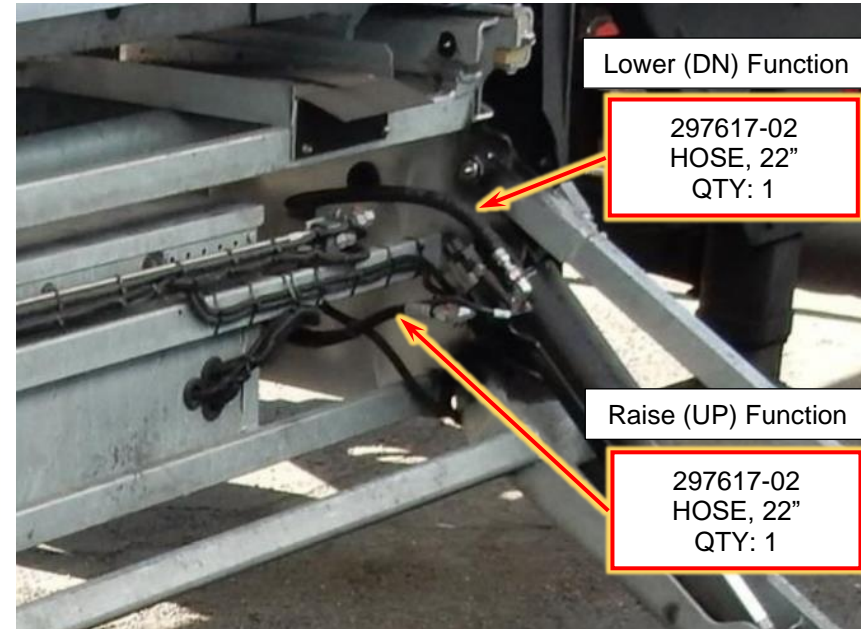
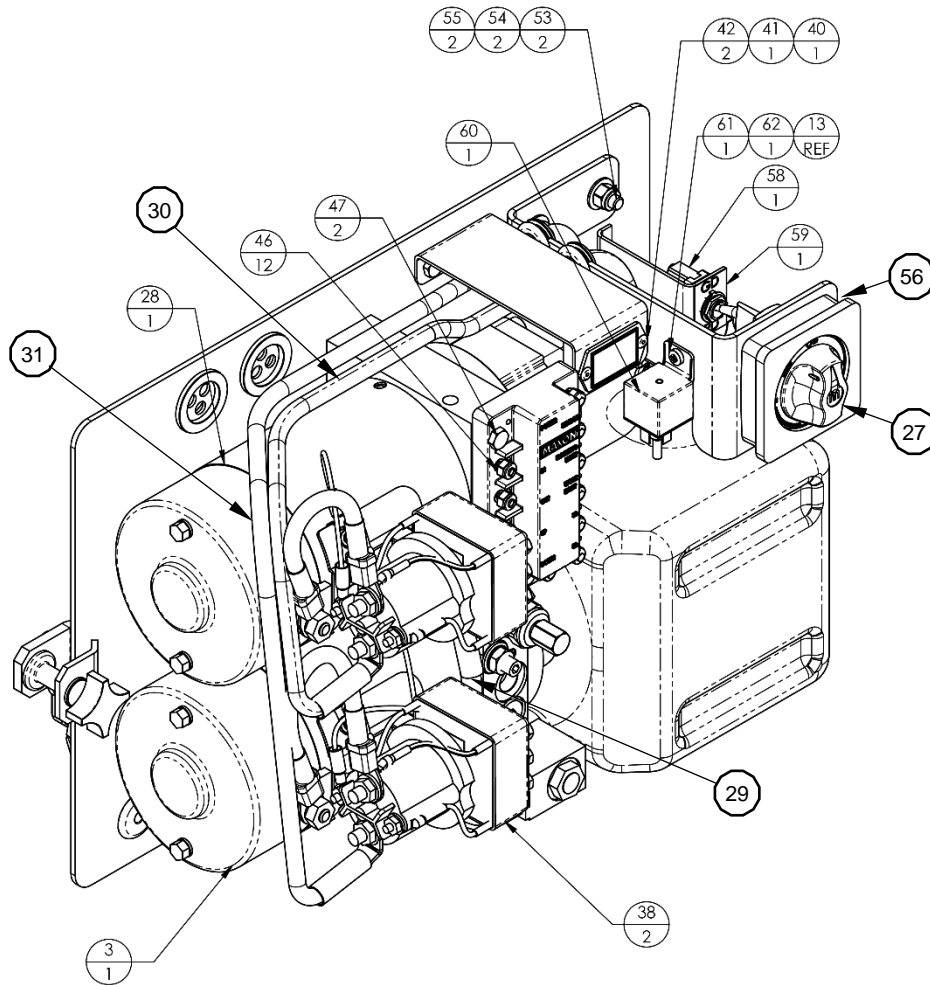


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### Parts Diagram: Dual Pump & Selector Switch Wiring

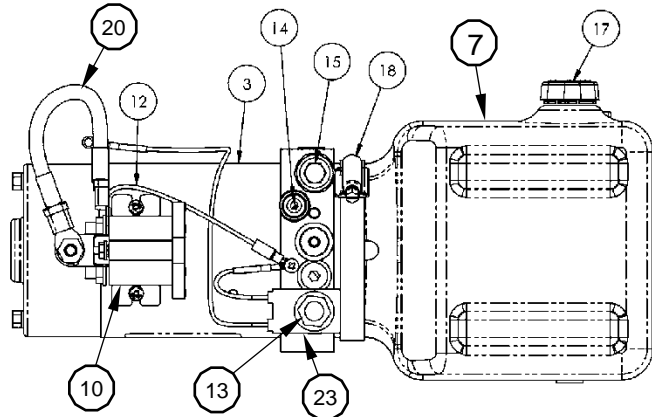


3	205780	TIE, PLASTIC 7" (50 LB)	65
1	907309	POS LOCK RECEPTACLE 20-15AWG	64
1	901003	NUT, NYLON 10-24 2B ZC	62
1 FT	093234-001	BLK HEAT SHRINK TUBE 9/3, 3:1	63
1	900007-6	SCREW, PH PAN HD, ZC 10-24X.75	61
1	906578-01	RELAY, 12VDC, 5 PIN	60
1	282775-01	DECAL GD-PD	59
1	907290-01	TOGGLE SWITCH, SNGL POLE, 2 POS	58
2	281068-03	GROMMET, MODIFIED, 4 HOLE	57
1	289096-01	GASKET, RUBBER, SELECTOR SWITCH	56
2	903106-10	NUT, NYL INSRTP, 313-18 SS	55
2	903409-02	WASHER, FEND, Ø.344 X .750D, SS	54
2	901602-05	BOLT, HEX, .313-18X.88, 18-8 SS	53
1	289095-02	BRACKET, SWITCH/RELAY MOUNT	52
1	299908-02	WIRE ASSY, 16 GA, PUMP CTRL, BN, 6" LG	51
2	299908-01	WIRE ASSY, 16 GA, PUMP CTRL, BN, 15" LG	50
1	210019-01	CONTROLLER ASSY, DUAL PUMP, RA	49
1	298052-01	WIRE ASSY, 16 AWG, RING TERMINALS #10, WHITE	48
2	900004-3	SCREW, CAP, .25-20X1 GR8 ZC	47
12	903172-01	NUT, NYL INSRTP STOP 10-32 SS	46
2	901000	NUT, NYLON 1/4-20 ZINC	45
2	902013-09	WASHER, FLAT 1/4" ZC	44
2	900004-2	SCREW, CAP, .25-20X.75 GR8 ZC	43
2	903721-01	RIVET, BLDDM, SS Ø.16X.02-.13	42
1	297289-01	DIGITAL CYCLE COUNTER	41
1	297358-02	BRACKET, DIGITAL C/COUNT, 5.0 LG	40
8	030344	NUT, HEX HD #10-32, 6/8 NYLON	39
2	297135-01	SOLENOID GUARDIAN MODULE	38
2	297272-01	JUMPER, 260 BRASS .015"	37
1	298052-02	WIRE ASSY, 16 AWG, RING TERMINALS #10, GREEN	36
1	298052-03	WIRE ASSY, 16 AWG, RING TERMINALS #10, BLACK	35
1	297274-03	WIRE ASSY, POS LOCK, RING TERM, BN	34
2	297274-01	WIRE ASSY, POS LOCK, RING TERM, BLK	33
2	297274-02	WIRE ASSY, POS LOCK, RING TERM, RED	32
1	289329-02	CABLE ASSY, 2GA, .31/.38RING, 90 DEG, 31" LG	31
1	289329-01	CABLE ASSY, 2GA, .31/.38RING, 90 DEG, 27" LG	30
1	269191-07	CABLE ASSY, GROUND, 2 GA X 6 -1/8 LG	29
1	288004-01	12 VDC POWER UNIT, DUAL PUMP	28
1	288102-01	MINI SELECTOR SWITCH, 1-OFF-2	27
2	900009-3	SCREW, CAP, .31-18X.75 GR8 ZC	26
2	902011-3	WASHER, LOCK #10	25
1	210871-01	F/S TUBE ASSY, RA-45, PDP	24
2	289099-01	LOCK VALVE ASSY, 12V, BI-DIRECTIONAL	23
1	906708-01	ELBOW, NPSC, SAE #6 O-R M-F SW	22
1	906707-01	ELBOW, NPSC, SAE #6 F/S O-R M-M	21
2	906765-01	TEE, SAE#6 M-M/F SW F/S 6R6LO	20
2	905173	CONNECTOR F/S#6&O-RING#6, M-M	19
2	906802-01	TEE, SW NUT BRANCH, ORFS #6	18
1	906971-01	CROSS, UNION, ORFS #6	17
2	906751-01	FITTING SAE#6M/SW F STR O-RING	16
4	903129-01	NUT, NYL INSRTP, THIN 10-24 SS	15
4	900722-06	SCREW, BTN 10-24 X .88, SS	14
5	903444-01	WASHER, FLAT #10, SS	13
2	288228-01	GROMMET 9/32 X 7/8	12
2	266428-13	GROM. Ø1 DIAPH, 3 HOLES	11
2	902011-6	WASHER, LOCK 1/2X1/8 ZC	10
2	902013-13	WASHER, FLAT 1/2" SAE ZC	9
2	900035-2	SCREW, CAP HXHD 5-13UNC-2A 1.25	8
2	900021-1	SCREW, SOC 5/16-18X3/4 FL	7
2	902013-10	WASHER, FLAT 5/16" SAE, ZC	6
2	286729-01	KNOB/STUD ASSY	5
2	289143-02	BRACKET, PUMP COVER, RA	4
1	288003-01	12 VDC POWER UNIT	3
1	266419-04	COVER ASSY, DUAL PUMP, HORIZONTAL MOUNT	2
1	298049-02G	PLATE W/DMT, PUMP MOUNT, CTRL, G	1
QTY	PART NUMBER	NOMENCLATURE OR DESCRIPTION	ITEM

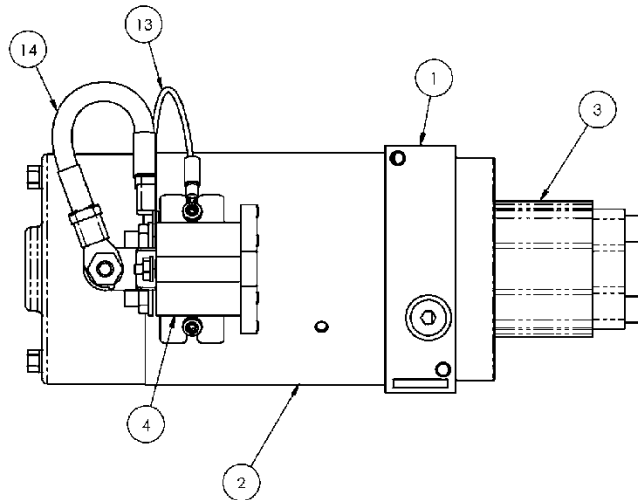
**BOM FOR P/N 299455-01G**

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### Parts Diagram: Power Unit Components & Wiring



**12 VDC Power Unit P/N 288003-01**



**12 VDC Aux Power Unit P/N 288004-01**

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	1	290196	BASE ASSY,M3541,AP100,9/16 SAE
2	1	297578	PUMP,AP100/2.5,EXT TANG,NOCVRS
3	1	290198	MOTOR,DC,12V,4.5IN,1 TERM, LONG
4	1	269324	O-RING,SHAPED,BASE TO PUMP FRONT END,AP1
5	1	269326	O-RING,SHAPED,REAR COVERD,AP100
6	4	297582	SCREW,SOCKET HEAD CAP,M8 X 75,GRADE 12.9
7	1	290199	RESV,PLASTIC,6.76X6.7X8.25,H/MT
8	4	297564	PIN,DOWEL,5MM X 7MM,AP100
9	2	269331	FILTER,SCREEN M-SERIES SUCT.
10	1	269339	SWITCH,SOL ACT MTR ST,12 VDC
11	3	269340	SCREW,PAN HD,TORX,10-32 X 5/16
12	1	297547	WIRE ASSY,CNTRL,16AWG,HS,RING
13	1	290153	CARTRIDGE,4-W/2-P,#8,1/2IN STEM
14	1	290158	VALVE ASSY,R/V,1001 PSI AND UP
15	1	269338	VALV MAX VM01 HDM10 T.95-210
16	1	287282	PLUG,SAE O-RING,9/16-18,HEX,SO
17	1	287281	PLUG,RESEV,BREATHER-FILLER
18	1	287277	CLAMP,HOSE,WORK GEAR,RSV,M-SER
19	2	297585	PLUG,SAE O-RING,7/16-20,HEX,SO
20	1	287274	CABLE,INSULATED W/LUGS #4G 6L
21	1	290205	SCREW,SELF TAPPING,10-24 3/8
22	1	269328	COVER,REAR,AP100 309,.375 NPT
23	1	290169	COIL,10 VDC #8, DUAL LEAD,#10RING
24	1	295577	TUBE,SUCTION,90 DGR,3/8NPT
25	1	297576	TUBE,90 DEG,3/8 NPTF,EXPD END
26	1	908301-02	FITTING,PLUG,1/4BSPP,HOLLOW HEX

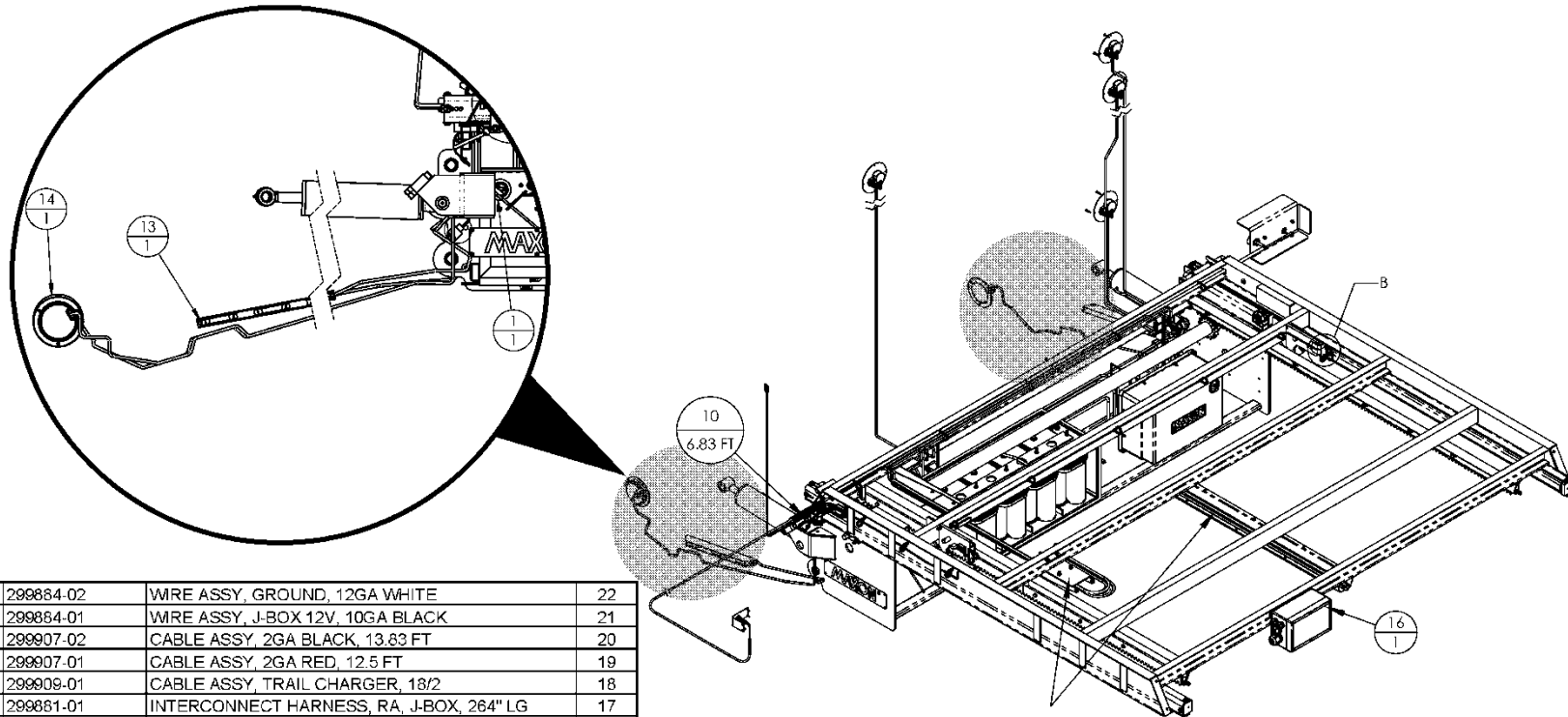
**BOM FOR POWER UNIT P/N 288003-01**

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	1	290206	BASE ASSY,M3400,AP100,STD MTR
2	1	290198	MOTOR,DC,12V,4.5IN,1 TERM, LONG
3	1	297578	PUMP,AP100/2.5,EXT TANG,NOCVRS
4	1	269339	SWITCH,SOL ACT MTR ST,12 VDC
5	1	297562	COVER,REAR,AP100,MACHINED,EXTR
6	4	297561	SCREW,SOCKET HEAD CAP,M8 X 80,GRADE 12.9
7	4	297564	PIN,DOWEL,5MM X 7MM,AP100
8	1	269324	O-RING,SHAPED,BASE TO PUMP FRONT END,AP1
9	1	269326	O-RING,SHAPED,REAR COVER,AP100
10	2	297553	O-RING,0.63 X 0.75 X 0.06 -016
11	2	269340	SCREW,PAN HD,TORX,10-32 X 5/16
12	2	297554	SCREW,5/16-18X5 1/2,H.HD,CAP,GR.8
13	1	297833	WIRE ASSY,CNTRL,16AWG,HS,RING
14	1	287274	CABLE,INSULATED W/LUGS #4G 6L

**BOM FOR AUX POWER UNIT P/N 288004-01**

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### Parts Diagram: Platform Work Lights & Lift Arm Flashing Lights



1	299884-02	WIRE ASSY, GROUND, 12GA WHITE	22
1	299884-01	WIRE ASSY, J-BOX 12V, 10GA BLACK	21
1	299907-02	CABLE ASSY, 2GA BLACK, 13.83 FT	20
1	299907-01	CABLE ASSY, 2GA RED, 12.5 FT	19
1	299909-01	CABLE ASSY, TRAIL CHARGER, 18/2	18
1	299881-01	INTERCONNECT HARNESS, RA, J-BOX, 264" LG	17
1	299327-02	KIT, J-BOX ASSY, P/D W/CTRL, RA-45	16
1	289966-03	RA, INSIDE SAFETY LIGHT KIT, CTRL, J-BOX	15
1	296132-05	RA, P/F WORKING LIGHT, CTRL	14
1	289996-04	RA, FLASHING LIGHT, CTRL, J-BOX	13
8.5 FT	040103	SPLIT LOOM, .50"	12
22.5 FT	907011	LOOM, SPLIT-NYLON, .25I.D.	11
6.83 FT	207642	SPLIT LOOM 1" BLACK	10
1	289967-03	RA, TRAILER FRONT LIGHT, SINGLE	9
31	EH13176	CABLE TIE MOUNTING BASE	8
1	286133-04	LIMIT SWITCH ASSY, J-BOX W/CTRL, NC	7
15	205780	TIE, PLASTIC 7" (50 LB)	6
1	285506-13	CABLE ASSY, 2GA RED, .31/.38RING, 88"	5
1	285506-06	CABLE ASSY, 2GA R, .31/.38RING, 37"	4
1	268226-13	CABLE ASSY, 2GA, .31/.38RING, 57.75"	3
1	268226-07	CABLE ASSY, 2GA, .31/.38RING, 18"	2
1	906559-01	FITTING, STRAIGHT CONNECTOR	1
QTY	PART NUMBER	NOMENCLATURE OR DESCRIPTION	ITEM

**BOM FOR P/N 289385-11-200**

ALL CABLE AND WIRE HARNESSSES SHOULD BE ROUTED THRU CHANNELS AND WELDMENTS AS SHOWN. WRAP WITH P/N 908283-01 & 908285-01(NOT SHOWN) AND USE PLASTIC TIES TO SECURE WRAP, ALL PROVIDED IN P/N 299327-02.

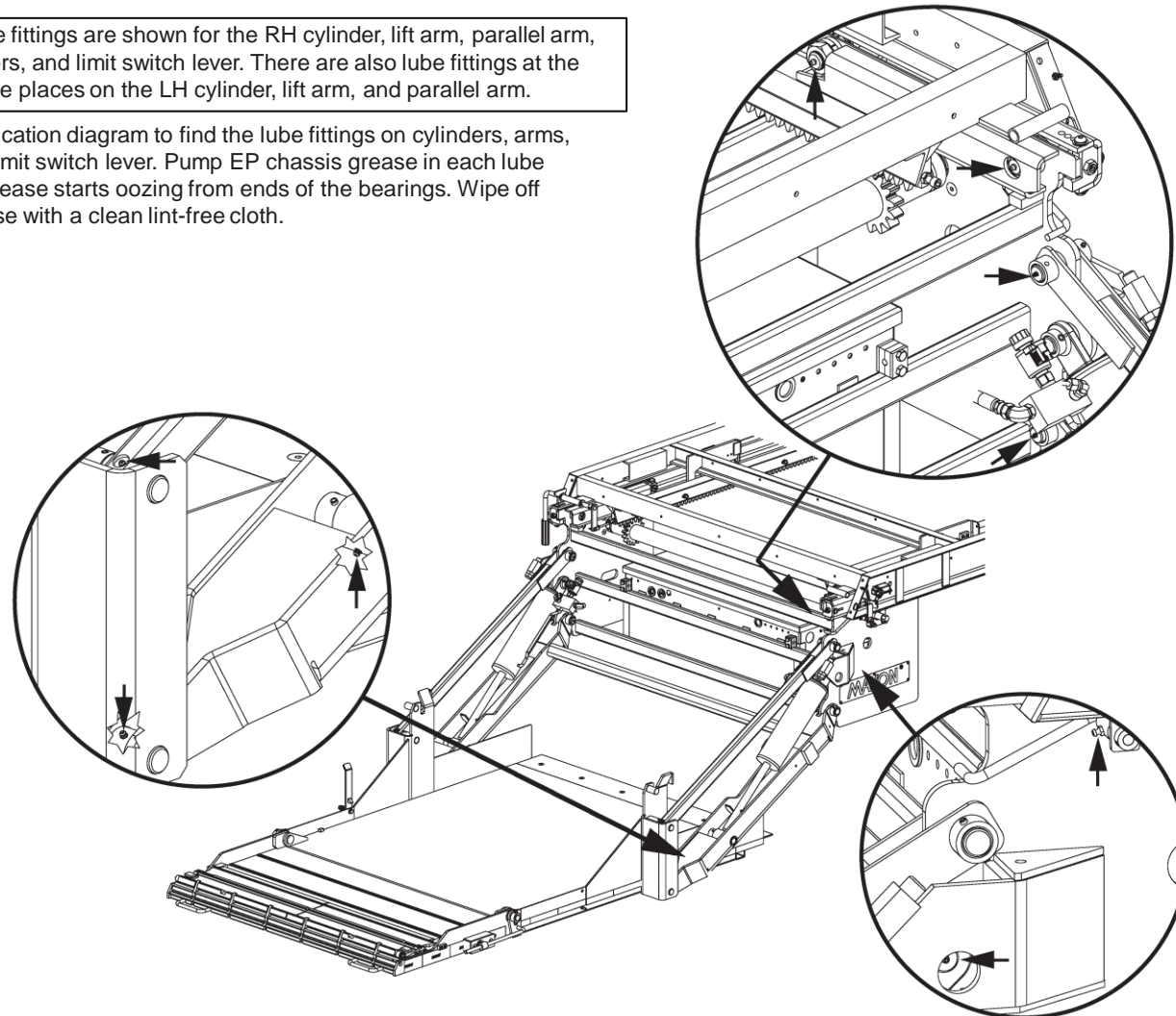


**Lubrication Diagram**

**Grease the points shown below Quarterly or every 1250 cycles (whichever occurs first).**





**NOTE:** Lube fittings are shown for the RH cylinder, lift arm, parallel arm, rollers, and limit switch lever. There are also lube fittings at the same places on the LH cylinder, lift arm, and parallel arm.

Refer to lubrication diagram to find the lube fittings on cylinders, arms, rollers, and limit switch lever. Pump EP chassis grease in each lube fitting until grease starts oozing from ends of the bearings. Wipe off excess grease with a clean lint-free cloth.



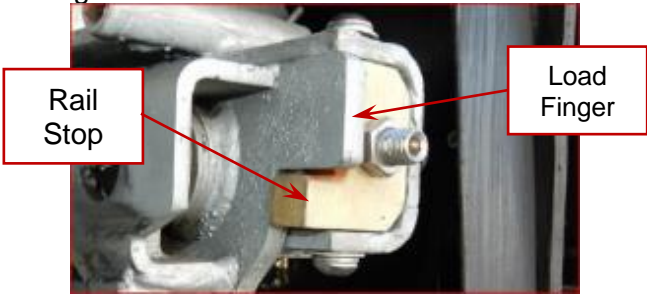
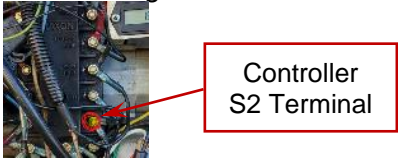
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## Troubleshooting Chart

Problem	Possible Cause	Correction
Platform will not raise, lower or move in & out and motor will not run.	1. Power shut off switch in "OFF" position.	Set power shut off switch to "1+2" position. 
	2. 150 A Circuit Breaker tripped.	Push Battery Box 150 A circuit breaker button to reset. 
	3. Battery voltage low.	Tighten power and ground connections. Charge batteries and check charging system.
	4. Motor solenoid not working.	Set pump selector switch to other pump. 
	5. Blown fuse on control circuit.	Check wall switches for short circuit. Tighten connections at switch and protect switch terminals. Wall switches can be spaced out with 1/4" spacer if needed. Replace 15A ATC fuse in battery box, #1 position on terminal block.
Platform will only lower, motor runs.	Limit switch lever / limit switch stuck.	Clear obstruction blocking lever/limit switch movement. Grease lever hinge point. 

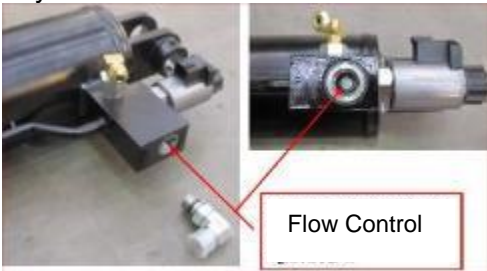
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## Troubleshooting Chart

Problem	Possible Cause	Correction
Platform not going in or out, motor runs.	1. Battery voltage low. Solenoids not activating.	Tighten power and ground connections. Charge batteries and check charging system. Battery voltage should be > 12.2 V.
	2. SV3 (in) valve not shifting. SV1 & SV3 (out) valves not shifting.	Check electrical connections at valve. Remove and clean valve if needed.
	3. Low pump pressure.	Adjust in/out pressure relief valves. 1800 psi for out, 2400 psi for in.
	4. Damaged/worn roller bearing.	With platform at the "out" position check if Load Finger is not resting Rail Stop. This is sign roller bearing wear.  Replace rollers.
Platform not going up or down, motor runs.	1. Battery voltage low. Solenoids not activating.	Tighten power and ground connections. Charge batteries and check charging system. Battery voltage should be > 12.2 V.
	2. SV2 valve not shifting.	Check controller S2 term. voltage. Should be >10v.  Check electrical connections at valve. Remove and clean valves if needed.

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## Troubleshooting Chart

Problem	Possible Cause	Correction
Platform not going up or down, motor runs. - Continued	3. Cylinder flow control valves blocking port.	Tighten cylinder flow control valve to 5 ft-lb. 
Red/Green stow lights at from of trailer not working.	1. Tractor 7-way plug not connected to trailer.	Connect 7-way plug.
	2. No power to 7-way aux pin	Check tractor 7-way fuse. Replace if needed.
	3. Proximity sensor out of adjustment.	Check metal target on platform is within 3/8" of sensor with platform stored.
	4. Proximity sensor not working.	Check that proximity sensor is getting >11.5V. Proximity sensor has a LED lit when it is active. Place metal within 3/8" sensor. If LED goes out sensor is working. Replace sensor if needed.
Flashing lights and work lights on platform not working.	1. Wiring short circuit. Possible damage to light wiring.	Repair damaged wiring and replace 5 A fuse in junction box.
	2. Proximity sensor near storage latch not working.	Check that proximity sensor is getting >11.5V. Proximity sensor has a LED lit when it is active. Place metal within 3/8" sensor. If LED goes out sensor is working. Replace sensor if needed.

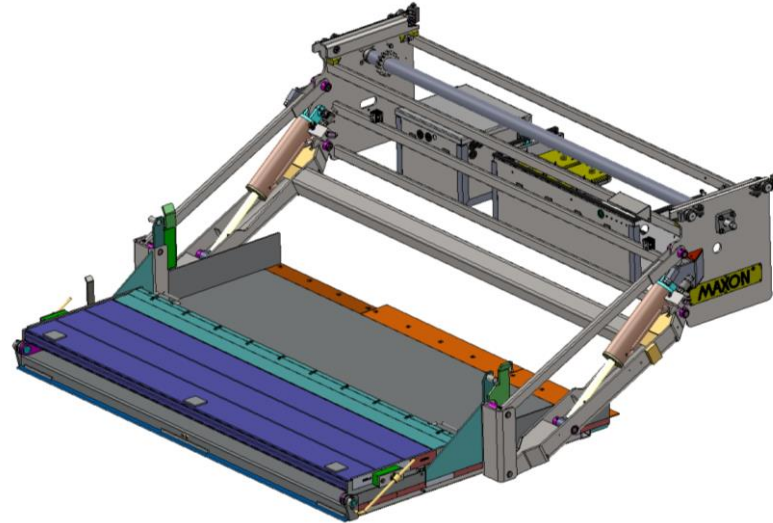
[Table of Contents](#)**Service Parts Kit**

On Lift	Part #	Desc	Qty
*	269339	SWITCH, SOL ACT MTR ST, 12 VDC	1
*	299882-01	SWITCH MAIN CONTROL, RA	1
*	906831-01	LOGIC VALVE, 12V	1
*	282999-01	HYD LOCK VALVE ASSY	1
	906580-01	FUSE, STD, 10A ATC	1
	906580-05	FUSE, STD, 5A ATC	1
	906580-02	FUSE, STD, 15A ATC	1
*	297617-02	HOSE ASSY, .38, SAE#6, 22" LG	1
*	297617-01	HOSE ASSY, .38, SAE#6, 25" LG	1
	906578-01	RELAY 12VDC 5 PIN	1
	289968-01	FLASHING LED RELAY	1
	286133-01	LIMIT SWITCH ASSY, NORMALLY CLOSED	1
	906556-01	SENSOR PROX 18M, NO PNP	1
*	290153	CARTRIDGE ONLY, 4W/2P, #10	1
*	290169	COIL, 10VDC, #8, DUAL LEAD	1
*	226889	TOGGLE SWITCH, SP, 3 POSN	1

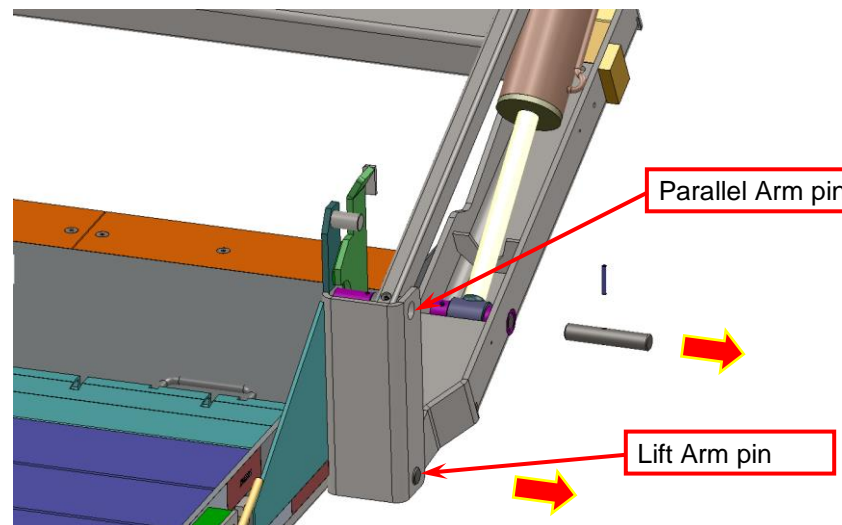
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## RA Parallel Arm and Lift Arm Pin & Bearing Inspection

1. Slide out platform and lower platform onto forklift fork approximately 24" from the ground.



2. Remove Parallel Arm pin and Lift Arm pin from platform on left hand and righthand side of platform. Remove roll pin.



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3. Slide platform away from Main Frame.

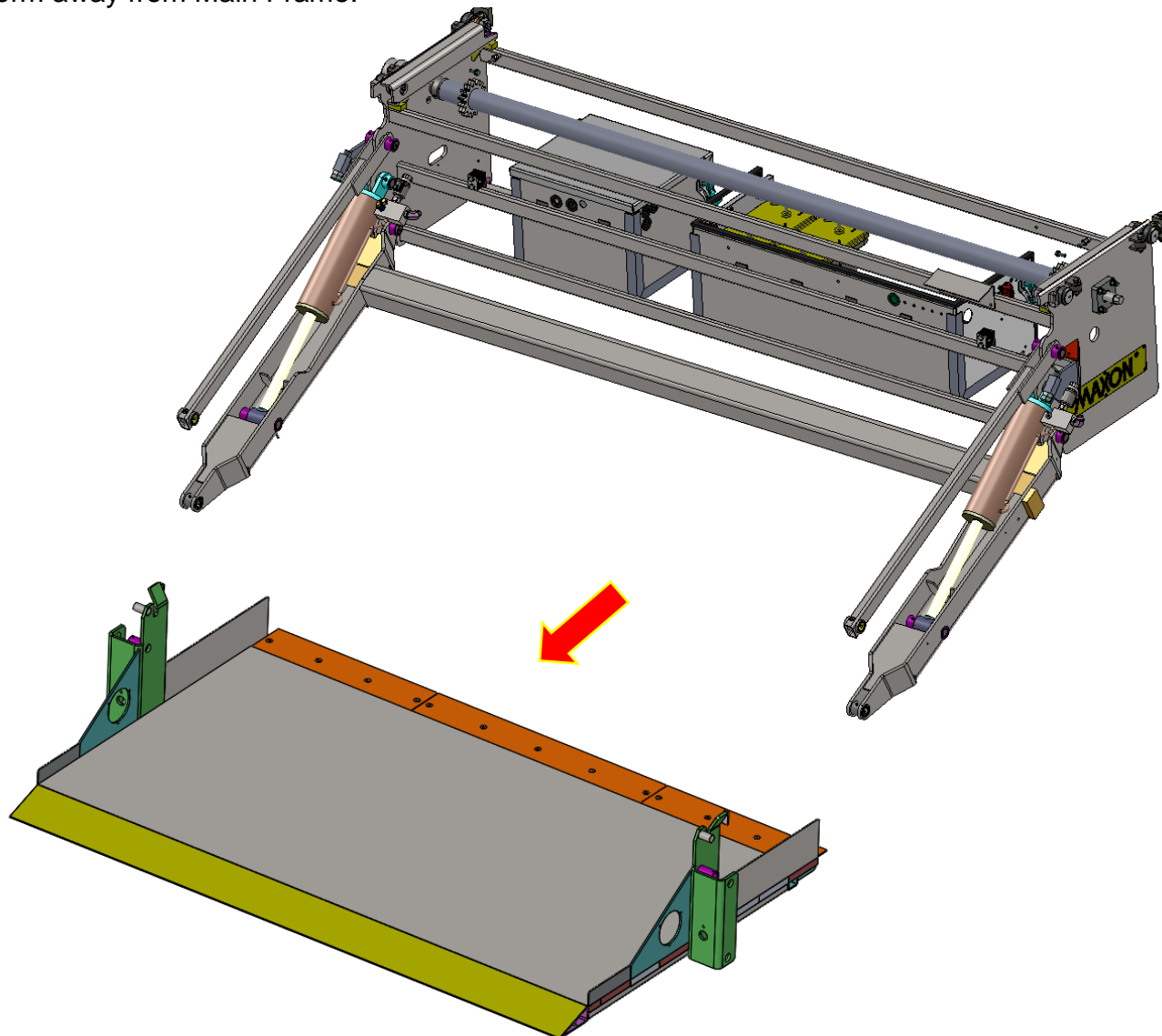
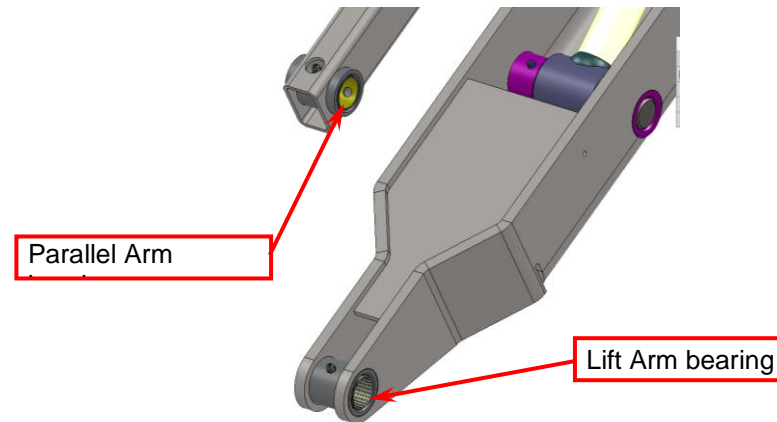


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4. Clean inside of bearings on Lift Arm and Parallel Arm.



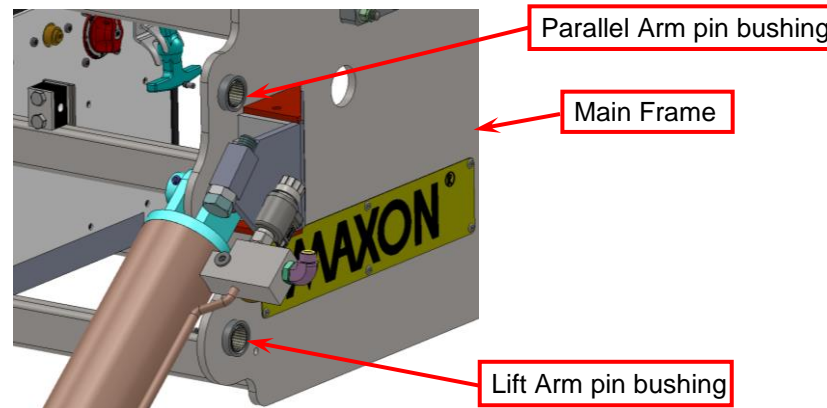
5. Inspect all bearing ID's for damage to the yellow liner. If bearing liner is damaged replace bearing. If bearing liner is in good condition use calipers to check that bearing ID is less than 1.014". Replace bearings with ID greater than 1.014". When a damaged or oversize bearing is found replace all bearings in that component. See bearing installation procedure on pages 49 and 50.



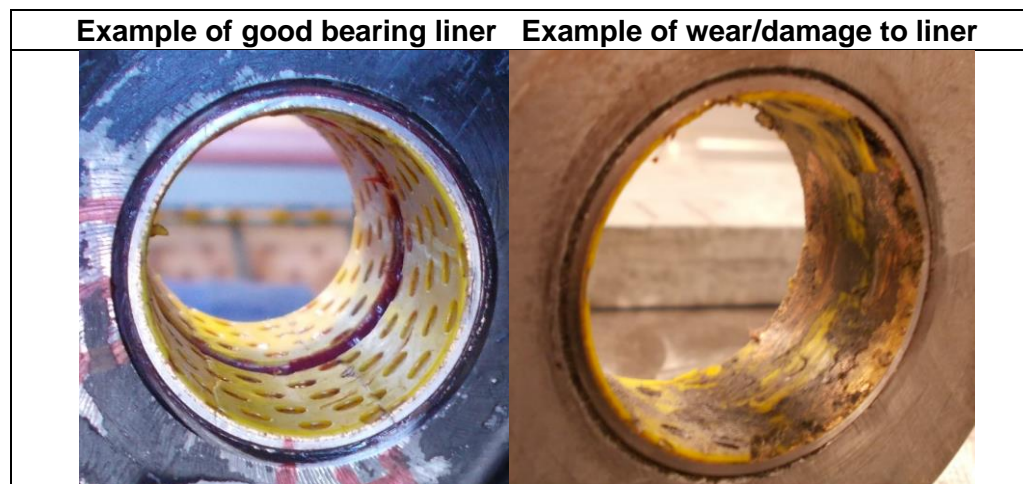


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6. Remove Parallel Arm and Lift Arm from Main Frame and clean inside of bearings in Main Frame.



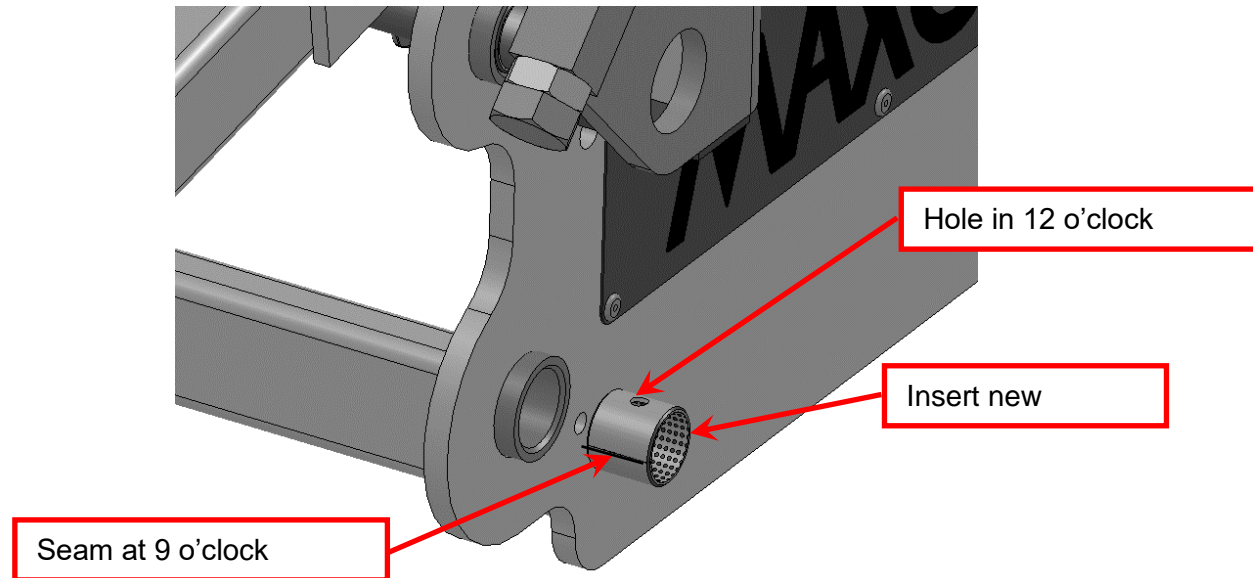
7. Inspect all bearing ID's for damage to the yellow liner. If bearing liner is damaged replace bearing. If bearing liner is in good condition use calipers to check that bearing ID is less than 1.014". Replace bearings with ID greater than 1.014". When a damaged or oversize bearing is found replace all bearings in that component. See bearing installation procedure on pages 49 and 50



[Table of Contents](#)**Mainframe Bearing Replacement:**

Bearing part # 908178-02

Remove damaged bearing. Position new bearing so the hole in the bearing is pointing upward, 12 o'clock position, and seam in bearing is at 9 o'clock as shown below. Insert bearing into flanged bushing until it is centered in the bushing.



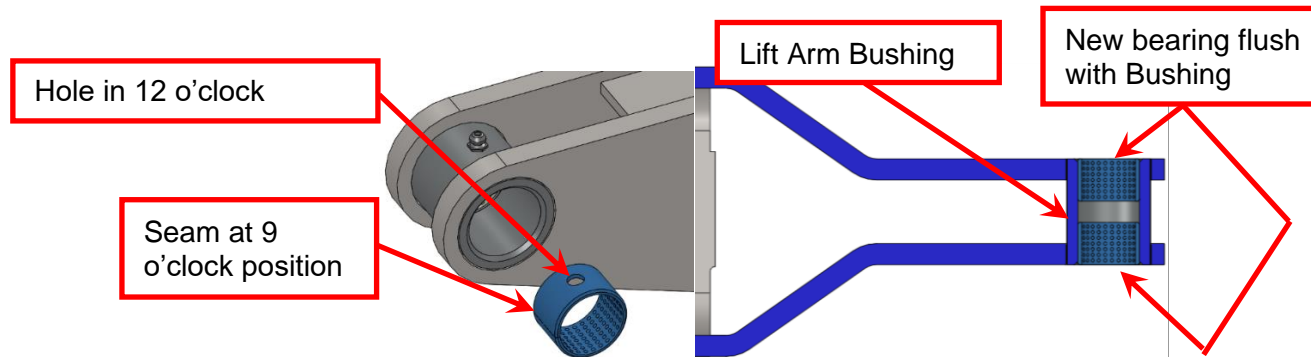
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## Lift Arm Bearing Replacement:

Bearing part # 908178-01

The Lift Arm uses two bearings, each pressed in to be flush with the outside of the bushing.

Remove damaged bearings. Position Bearing so the hole in the Bearing is pointing upward, 12 o'clock position, and seam in Bearing is at 9 o'clock as shown below. Insert Bearing into Flanged Bushing until it is centered in the bushing.



## Parallel Arm Bearing Replacement:

Bearing part # 908178-01

The parallel arm uses two bearings, part # 908178-01, each pressed in to be flush with the outside of the bushing.

Remove damaged bearings. Position bearing so the hole in the bearing is pointing upward, 12 o'clock position, and seam in bearing is at 3 o'clock as shown below. Insert bearing into flanged bushing until it is centered in the bushing.

