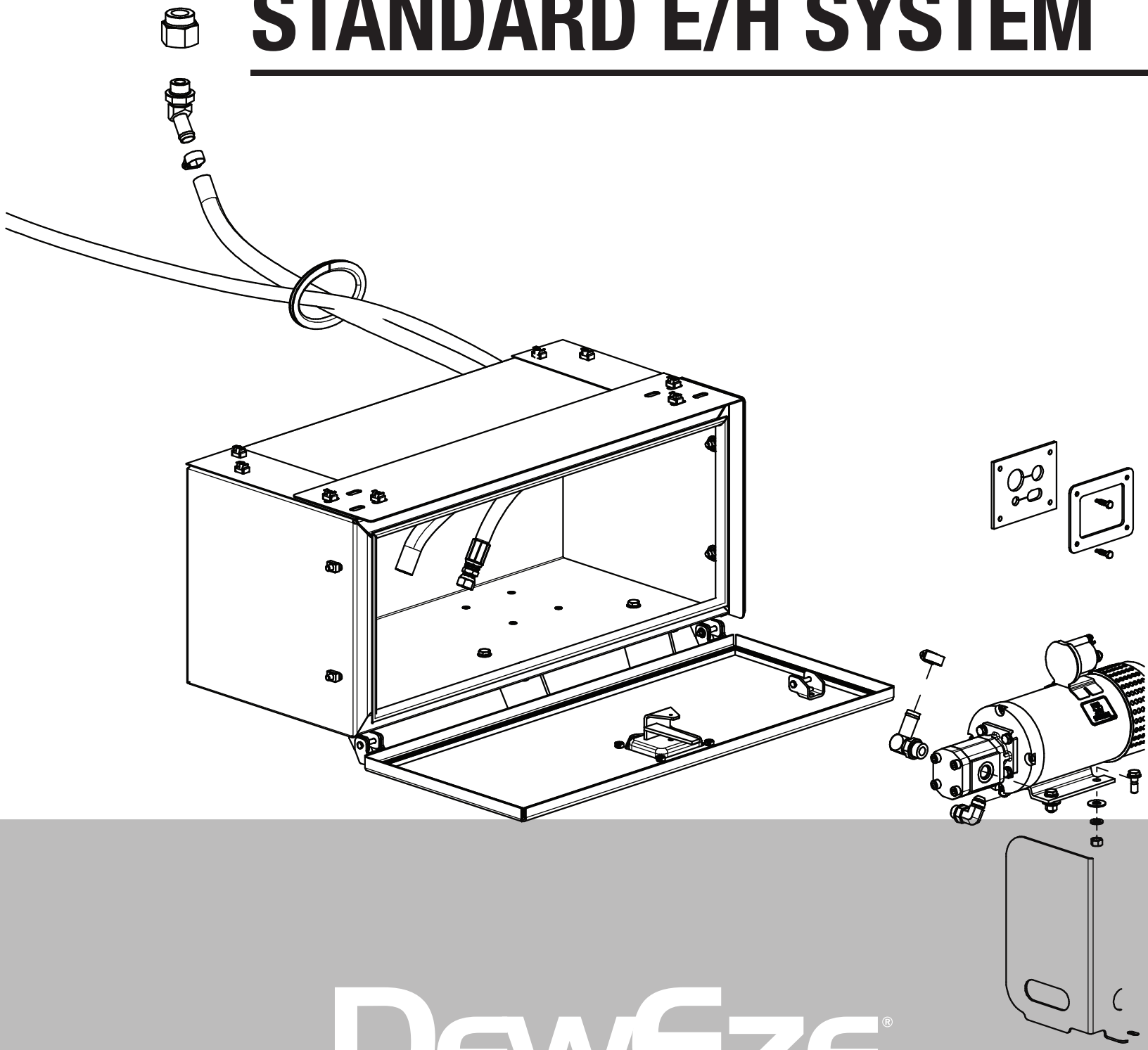
STANDARD E/H SYSTEM



DewEze®

HYDRAULICS

4-2020

HARPER INDUSTRIES INC

WARRANTY

Harper Industries, Inc. (HII) warrants to each purchaser of a new DewEze hydraulic power system from an authorized dealer or representative, that such system is free from manufacturing defects which appear while in normal service for a period of ONE YEAR, unless otherwise specified, commencing with the delivery to the original user.

The warranty policy on DewEze hydraulic power systems covers the replacement of defective parts and outbound freight (UPS Ground). LABOR REQUIRED TO REPLACE DEFECTIVE PARTS AND TOW BILLS ARE NOT COVERED UNDER WARRANTY. Wear parts, such as belts and hoses, are not covered under warranty. The end user is responsible for returning parts for evaluation, if requested by HII.

HII limits all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, to repair or replacement. The decision to repair or replace shall be at HII's option. HII does not warrant, and is not responsible for, any damage to the engine or any component thereof, on which the hydraulic power system is mounted. HII makes no other express warranty, nor is anyone authorized to make any on its behalf.

If this system is not being used to power a DewEze product the installer, through its own analysis and testing, is solely responsible for making the final selection of the system and assuring its compatibility with other components of the vehicle's hydraulic system. This is due to the wide variety of operating conditions and applications where hydraulic power systems are used. The installer must also make sure that all engine load, performance, safety and warning requirements of the application are met.

Expedite any potential warranty claim by providing the following information.

In the event of a product failure, the end user should contact the entity where the hydraulic power system was originally installed. Provide a copy of the original sales ticket and the following information:

FOR YOUR INFORMATION

Date of Purchase_____

Dealer's Name_____

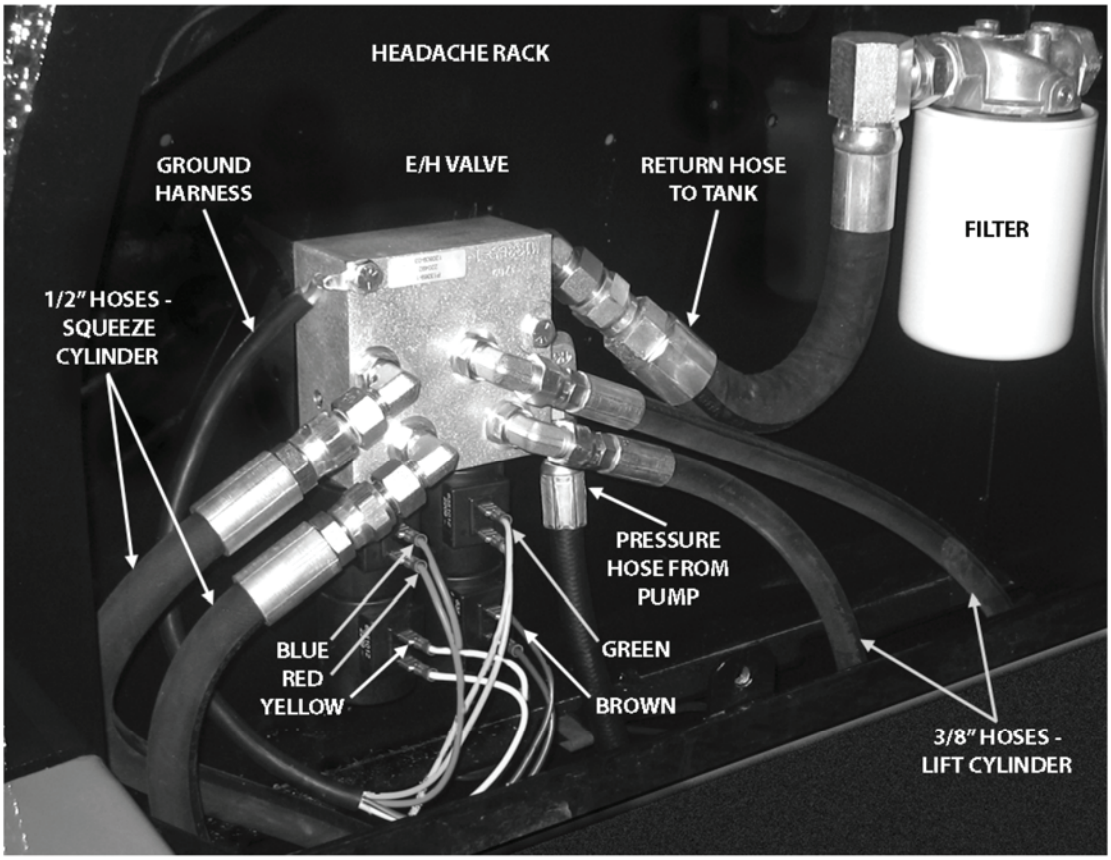
Dealer's Phone_____

Pump Serial Number_____

Kit Serial Number_____

Standard E/H Power Kit

E / H KIT INSTALLATION INSTRUCTIONS



1) Attach adapters to E/H valve and install inside cavity on headache rack.

2) Attach return hose to valve and filter housing. Attach pressure hose from pump.

3) Attach blue and yellow wires from hand control to valve cartridge that controls squeeze cylinder as indicated.

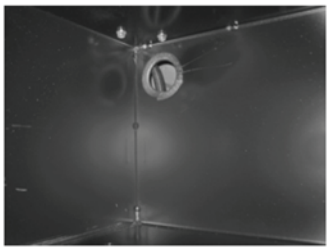
4) Attach green and brown wires from hand control to valve cartridge that controls lift cylinder as indicated.

5) Attach ground harness to valve coils with similar color wires (yellow, brown and green). Blue and red wires are on same coil.

6) Attach 1/2" hoses from squeeze cylinder to side of valve controlled by blue and yellow wires. If hand control does not respond as desired, pioneer couples on rear of bed may be reversed or blue and yellow wires may be reversed.

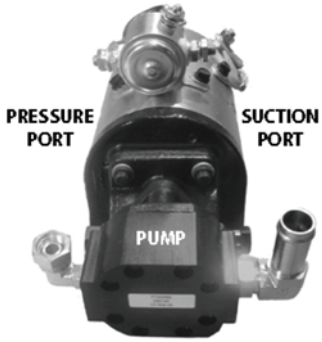
7) Attach 3/8" hoses from lift cylinder side of valve controlled by green and brown wires. If hand control does not respond as desired, green and brown wires may be reversed.

8) Use diagram to locate holes in driver's side toolbox.



9) Drill 2.5" hole with hole saw and use molding to protect hoses from rough edges.

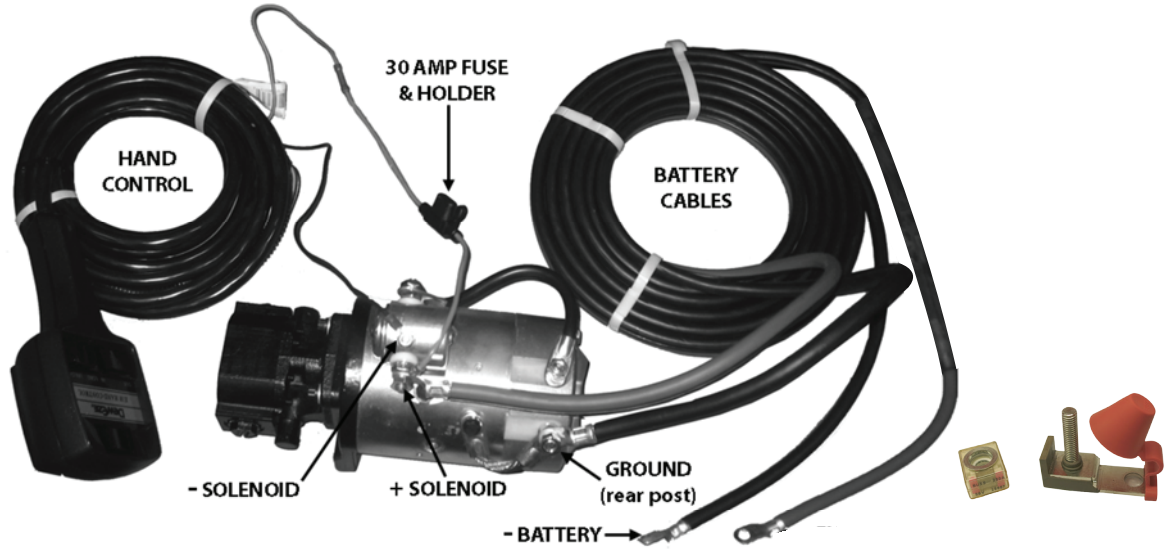
10) Drill 3/8" holes for pump as indicated and bolt pump to inside of toolbox.



11) Attach suction hose and pressure hose to pump with adapters provided.

12) Attach suction hose to bottom of reservoir as indicated in diagram.

13) Attach black wire from hand control to negative terminal on solenoid.



14a) Attach 30-amp fuse holder to positive terminal on solenoid and then to red wire from hand control.

14b) Attach 30-amp fuse holder to positive terminal on battery, run wire thru switch on dash. Then to red wire on valve harness for wireless remote.

15) Run battery cables through hold in toolbox and attach to E/H motor as indicated (black cable to rear post).

16) Run battery cables along frame rail and attach black cable to negative terminal on battery.

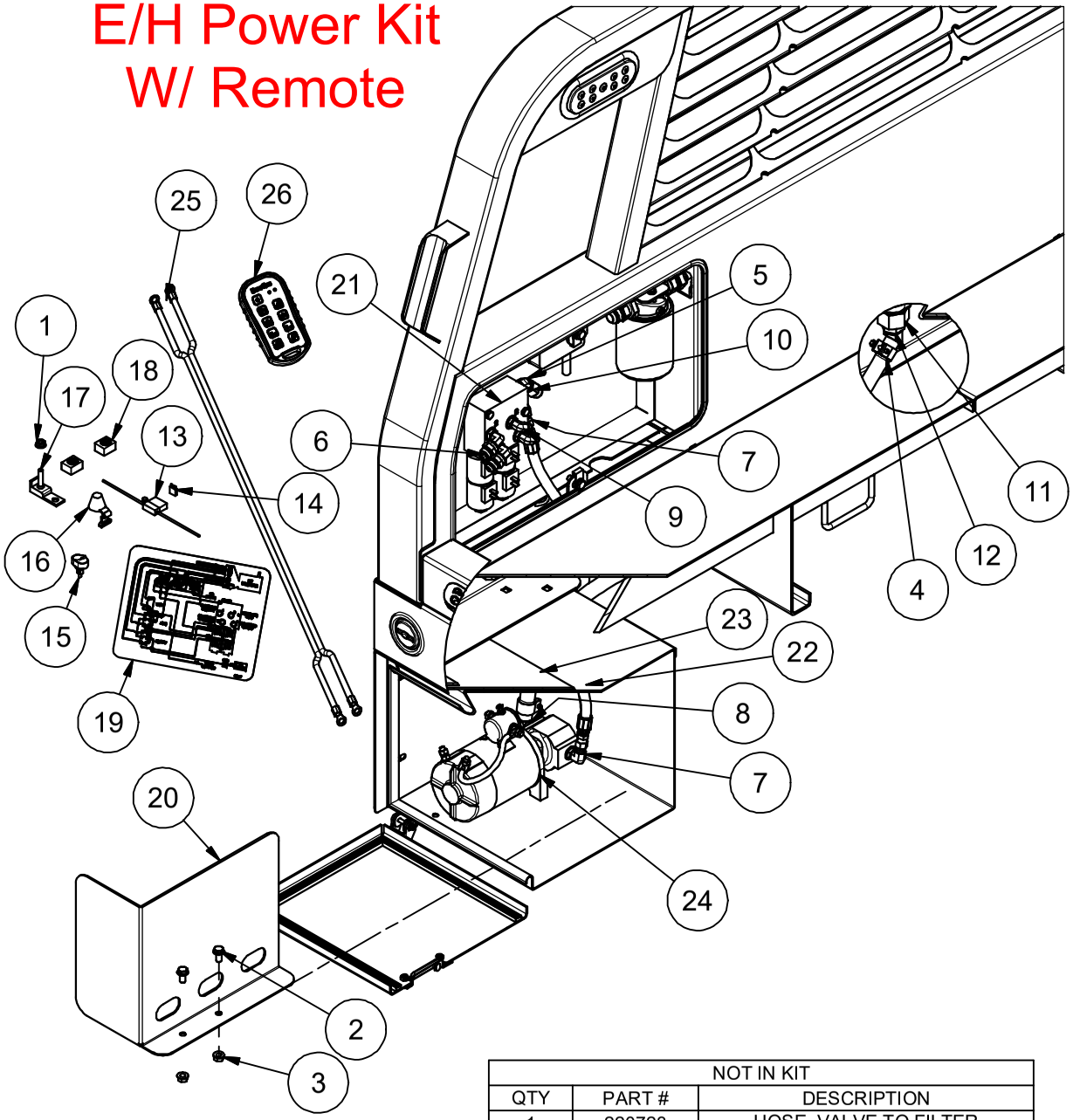
17) Attach 200-amp fuse holder to positive battery terminal.

18) Insert 200-amp fuse.

19) Attach red cable from E/H ontop of "ice cube" fuse. Install rubber cap.

Standard E/H Power Kit W/ Remote

Kit E/H Power, W/Remote Part# 205053			
ITEM	QTY	PART #	DESCRIPTION
1	1	110141	NUT, M8 X 1.25 WIZFLANGE
2	4	110437	BOLT, 3/8-16 X 0.75, WIZ FLANGE
3	2	110645	NUT, 3/8-16 WIZ FLANGE
4	2	112136	Clamp, 3/4" T-Bolt, Supra W2-120
5	1	120087	ADAPTER, 6MB-8MJ45
6	2	120142	ADAPTER, 8MJ-6FJ
7	2	120149	ADAPTER, 6MB-6FPX90
8	1	120187	ADAPTER, 12BH-8MB90
9	4	120222	ADAPTER, 6MJ-6MB90
10	1	120457	ADAPTER, 8FJ-10MJ
11	1	120544	ADAPTER, 20MB-12FOR
12	1	120545	ADAPTER, 12BH-12MB 45°
13	1	132001	FUSE HOLDER, ATC, 14 GA., MINI
14	1	132002	FUSE, MINI 30 AMP
15	1	132044	Switch, Spst, Rocker Led
16	1	132092	FUSE COVER, BUSS CFCOVER-1R
17	1	132093	FUSE HOLDER, BUSS CFBAR1-M8XSP
18	2	132094	FUSE 200 AMP, BUSS MRBF-200
19	1	202047	DECAL, E/H WIRING DIAGRAM, KAR-TECH
20	1	211353	E/H SHIELD
21	1	220492	VALVE, E/H FLATBED
22	1	220508	HOSE, .375 X 50.44, 6MP - 6MP
23	1	220603	HOSE, SUCTION, .75 X 54
24	1	230140	E/H MOTOR PUMP/UNIT
	1	210884	MOTOR
	1	220651	PUMP
	1	222006	SEAL KIT, PUMP
	1	232089	SOLENOID, 3 POLE, HEAVY DUTY
25	1	230155	BATTERY CABLE, 2GA TWIN LEAD, 186"
26	1	233003	Transmitter & Receiver, Kar-Tech
			NOT SHOWN
	3	110119	NUT, 10-24 LOCK
	3	110264	BOLT, 10-24 X .5 STAINLESS, PHILLIPS
	2	110396	BOLT, 5/16-18 X 2.5
	2	110608	NUT, 5/16-18
	2	110674	WASHER, 5/16" LOCK
	2	110753	PLUG, 1/2" BUTTON PLASTIC
	2	132035	SWITCH BOOT
	2	132127	Switch, Toggle, DPDT, (On)-OFF-(ON)
	1	202003	DECAL, SWITCH IDENTIFICATION
	1	211387	EDGE MOLDING, REAR PLATE
	1	232090	HARNESS, E/H WIRELESS, KAR-TECH



NOT IN KIT		
QTY	PART #	DESCRIPTION
1	220723	HOSE, VALVE TO FILTER
1	720041	FILTER HEAD
1	720043	FILTER (WIX 51551)

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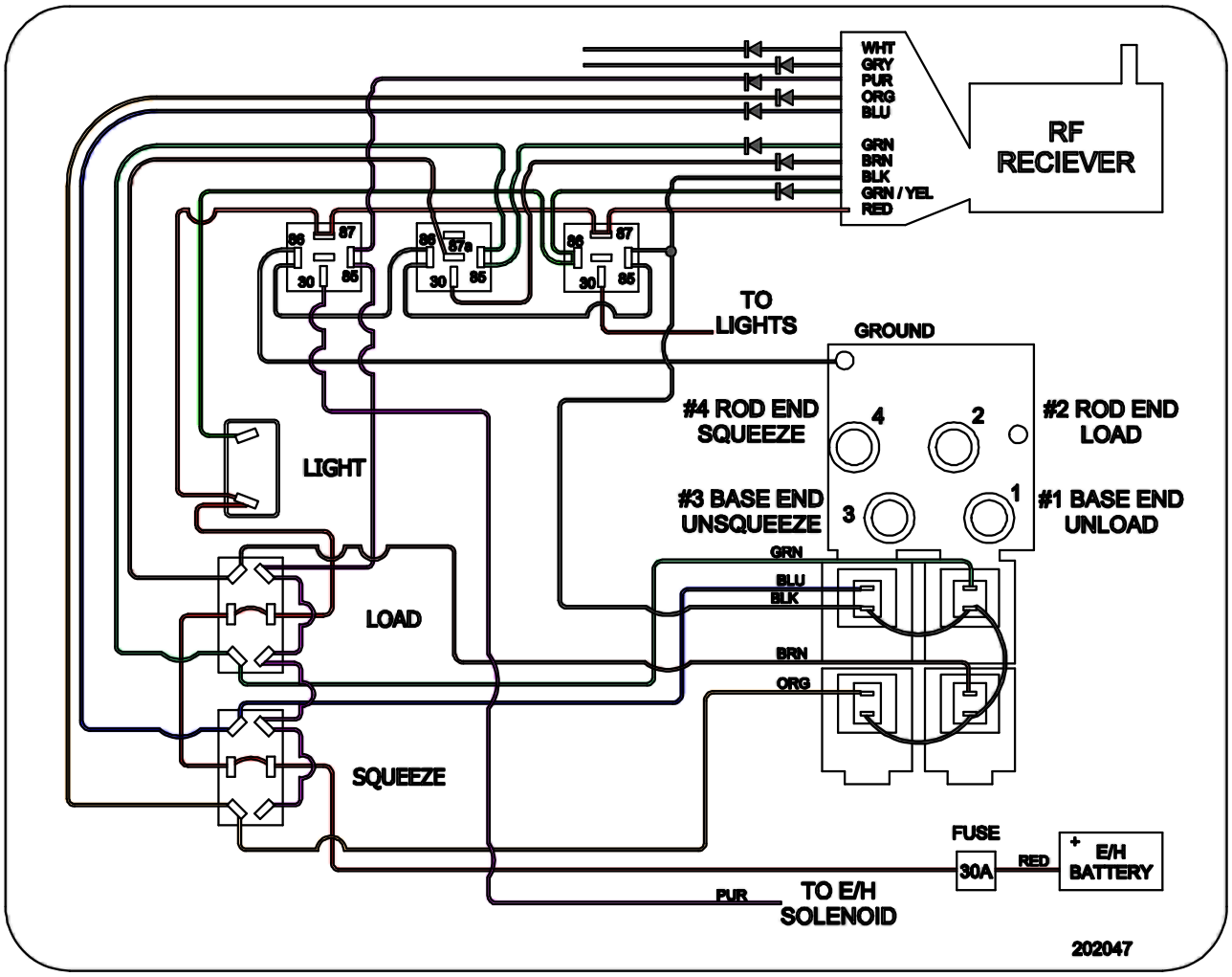
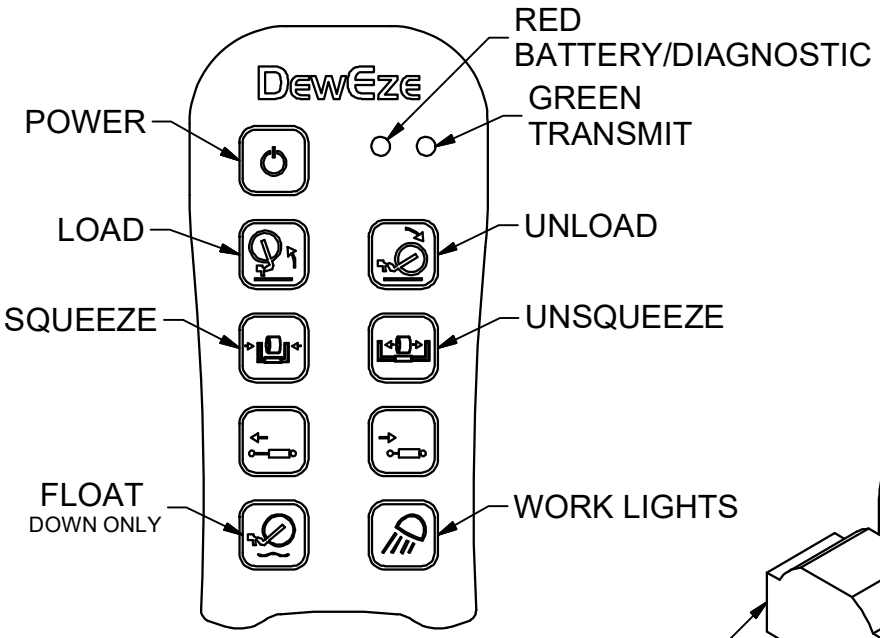
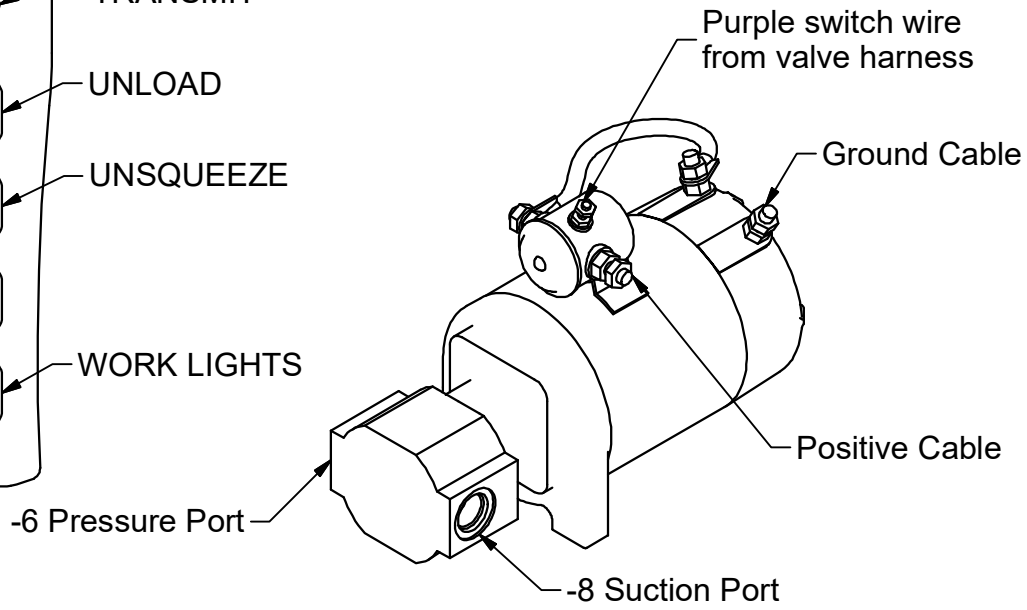
E/H Wiring, Kar-Tech Remote



Decal Part# 202047 Harness Part# 232090





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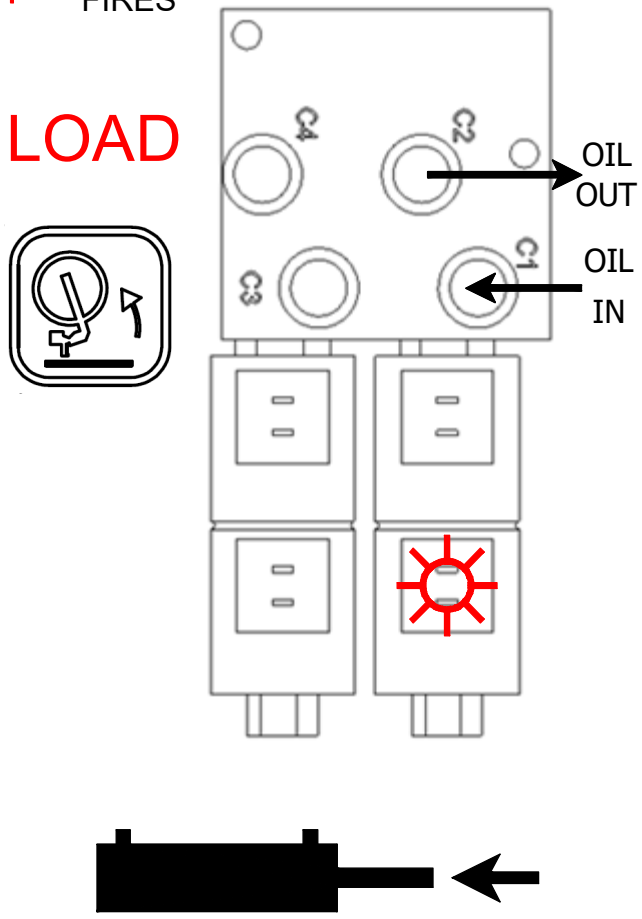
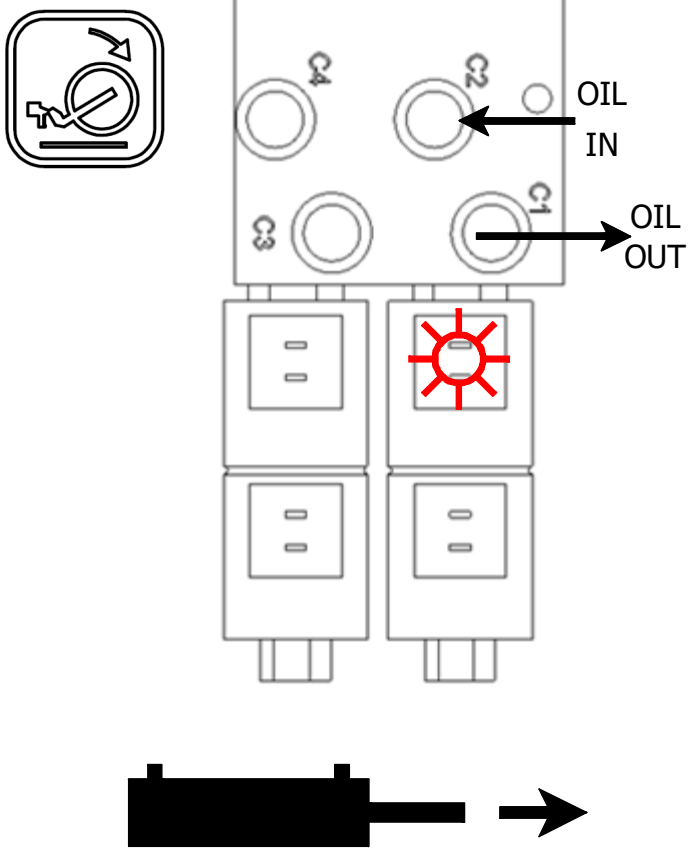
SOLENOID FIRES

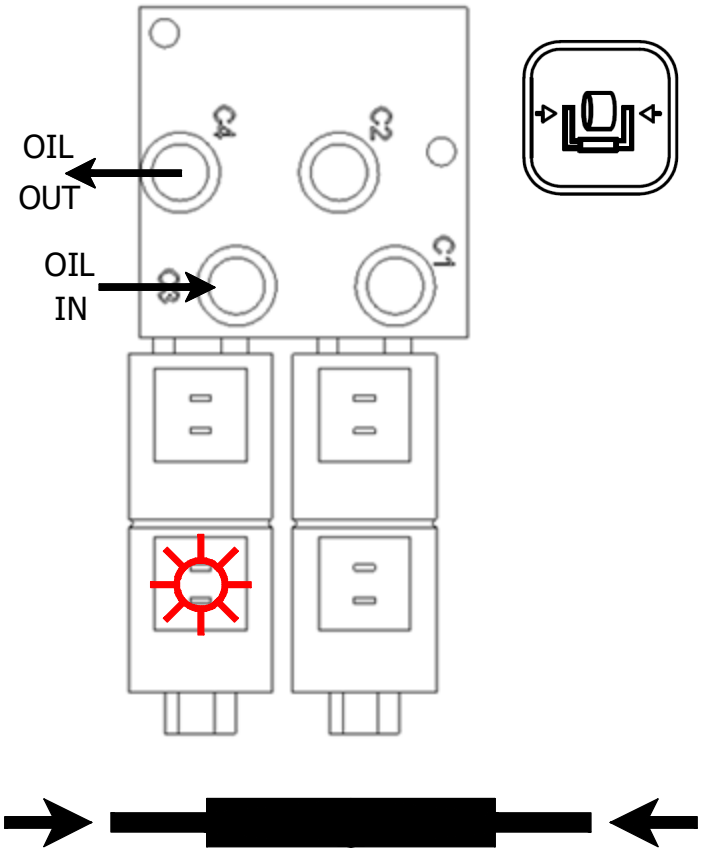
LOAD



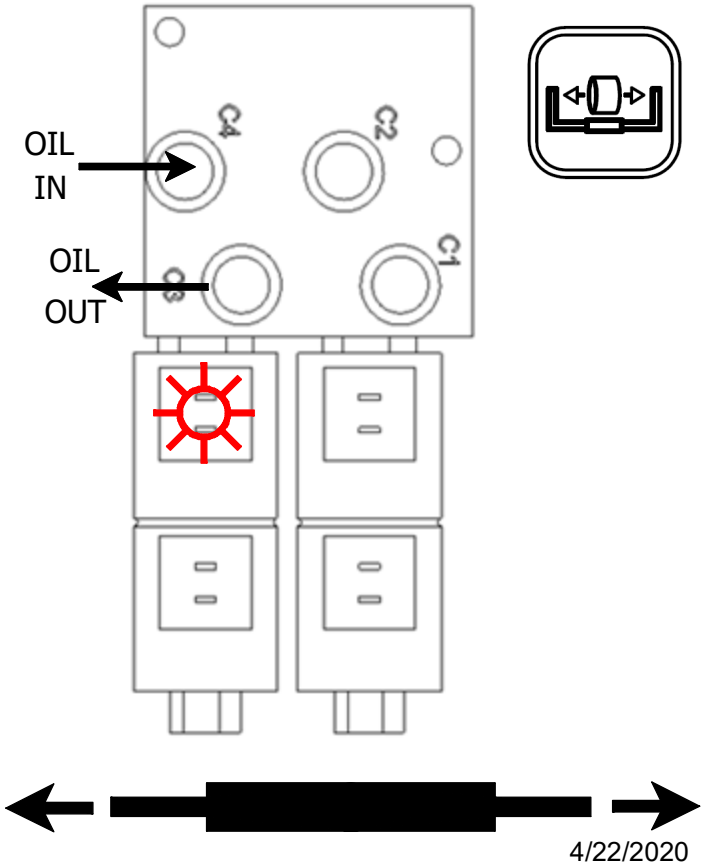
UNLOAD



SQUEEZE



UNSQUEEZE



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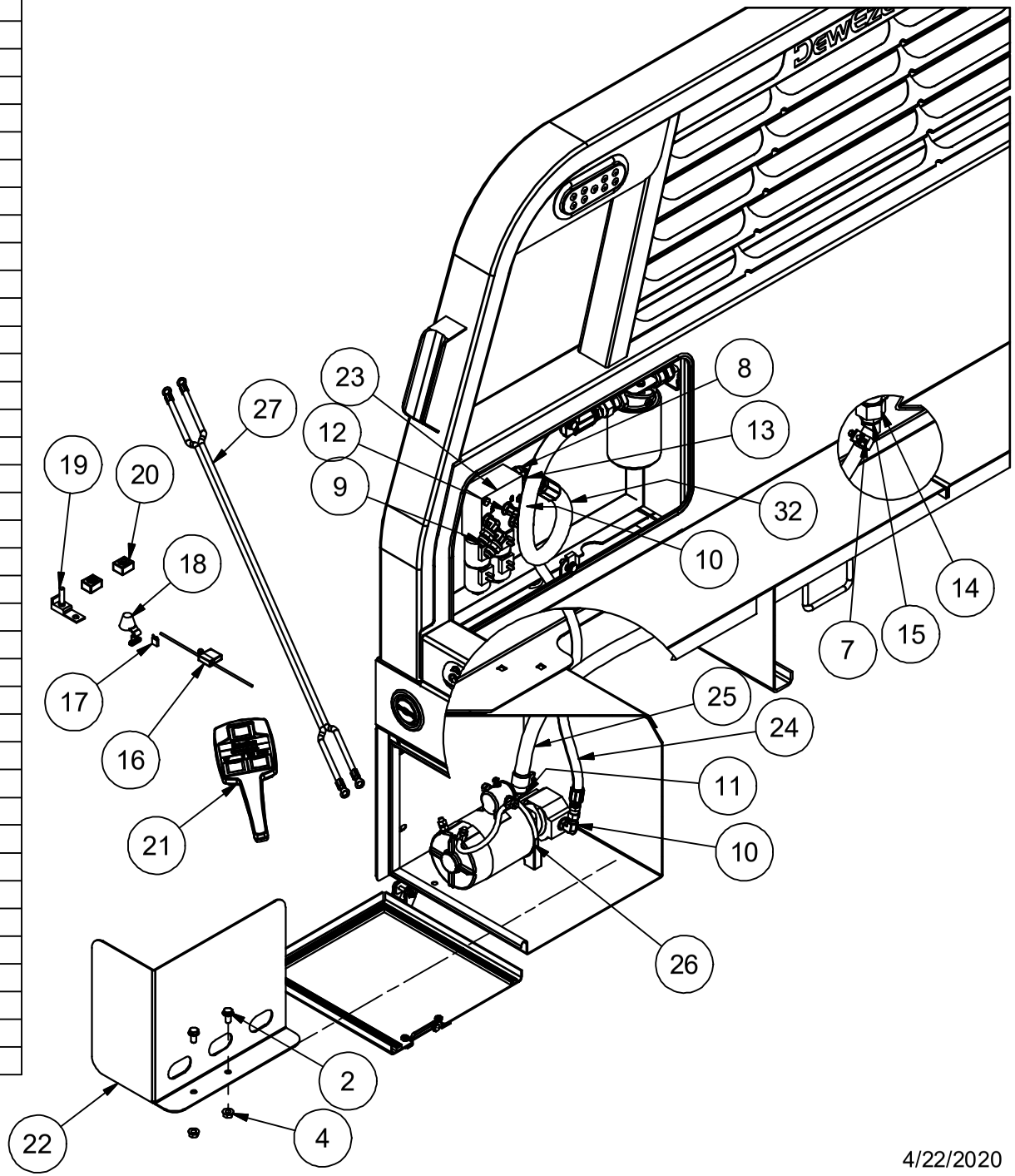
E/H Power Kit

Kit E/H Power, Part# 215005			
ITEM	QTY	PART #	DESCRIPTION
1	2	110396	BOLT, 5/16-18 X 2.5
2	4	110437	BOLT, 3/8-16 X 0.75, WIZ FLANGE
3	2	110608	NUT, 5/16-18
4	2	110645	NUT, 3/8-16 WIZ FLANGE
5	2	110674	WASHER, 5/16" LOCK
6	4	110753	PLUG, 1/2" BUTTON PLASTIC
7	2	112136	Clamp, 3/4" T-Bolt, Supra W2-120
8	1	120087	ADAPTER, 6MB-8MJ45
9	2	120142	ADAPTER, 8MJ-6FJ
10	2	120149	ADAPTER, 6MB-6FPX90
11	1	120187	ADAPTER, 12BH-8MB90
12	4	120222	ADAPTER, 6MJ-6MB90
13	1	120457	ADAPTER, 8FJ-10MJ
14	1	120544	ADAPTER, 20MB-12FOR
15	1	120545	ADAPTER, 12BH-12MB 45°
16	1	132001	FUSE HOLDER, ATC, 14 GA., MINI
17	1	132002	FUSE, MINI 30 AMP
18	1	132092	FUSE COVER, BUSS CFCOVER-1R
19	1	132093	FUSE HOLDER, BUSS CFBAR1-M8XSP
20	2	132094	FUSE 200 AMP, BUSS MRBF-200
21	1	150027	HAND CONTROL & CABLE ASSY E/H FLATBED
22	1	211353	E/H SHIELD
23	1	220492	VALVE, E/H FLATBED
24	1	220508	HOSE, .375 X 50.44, 6MP - 6MP
25	1	220603	HOSE, SUCTION, .75 X 54
26	1	230140	E/H MOTOR PUMP/UNIT
	1	210884	MOTOR
	1	220651	PUMP
	1	222006	SEAL KIT, PUMP
	1	232089	SOLENOID, 3 POLE, HEAVY DUTY
27	1	230155	BATTERY CABLE, 2GA TWIN LEAD, 186"
			NOT SHOWN
28	1	211387	EDGE MOLDING, REAR PLATE
29	1	230119	CABLE, SOLENOID GROUND
30	1	730008	TERMINAL, BUTT CONNECTOR, 14-16
31	1	730013	TERMINAL, RING, 5/16", 14-16
			NOT IN KIT
32	1	220723	HOSE, VALVE TO FILTER
	1	720041	FILTER HEAD
	1	720043	FILTER (WIX 51551)



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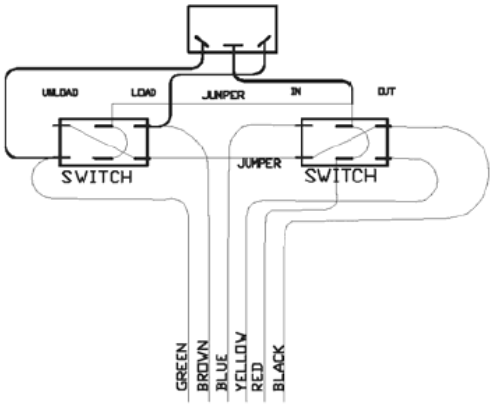
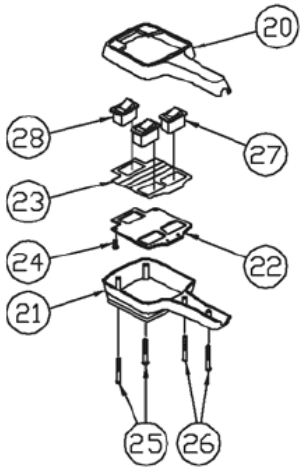
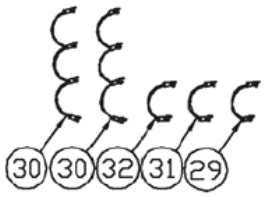
E/H Power Kit

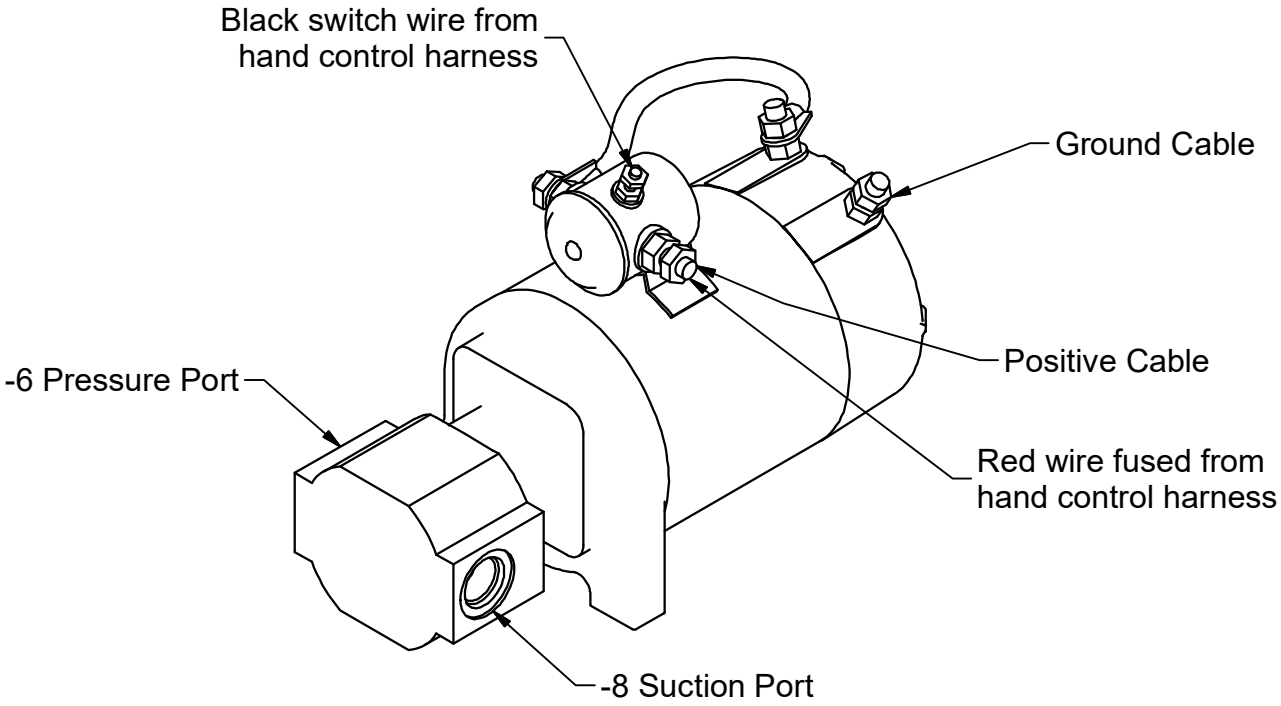


WIRING DIAGRAM
SWITCHES SHOWN FROM BOTTOM





20	150001	TOP HOUSING (1)
21	150003	BOTTOM HOUSING (1)
22	150002	SWITCH PLATE (1)
23	150004	DECAL (1)
24	150013	SCREW (4)
25	150015	SCREW (2)
26	150014	SCREW (2)
27	130029	SWITCH DPDT (2)
28	130002	MOMENTARY SWITCH (1)
29	150029	JUMPER WIRE/HOT (1)
30	150030	JUMPER WIRE/HOT (2)
31	150031	JUMPER WIRE/GRN. (1)
32	150032	JUMPER WIRE/BRN. (1)



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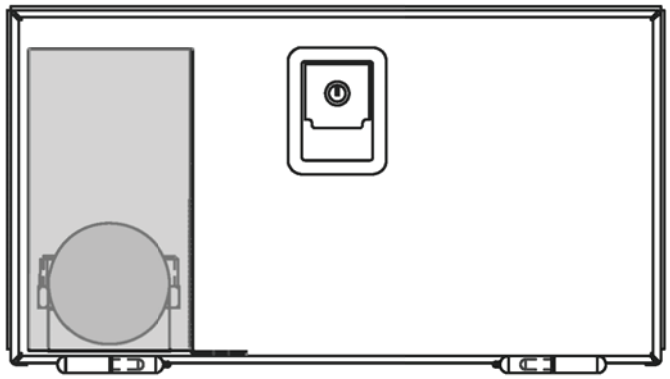
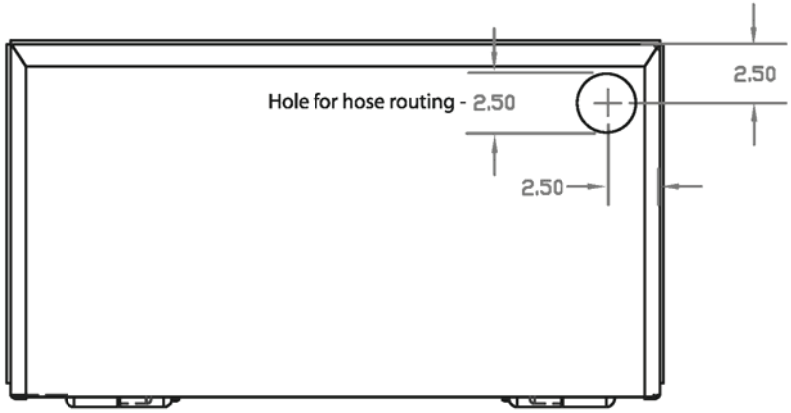
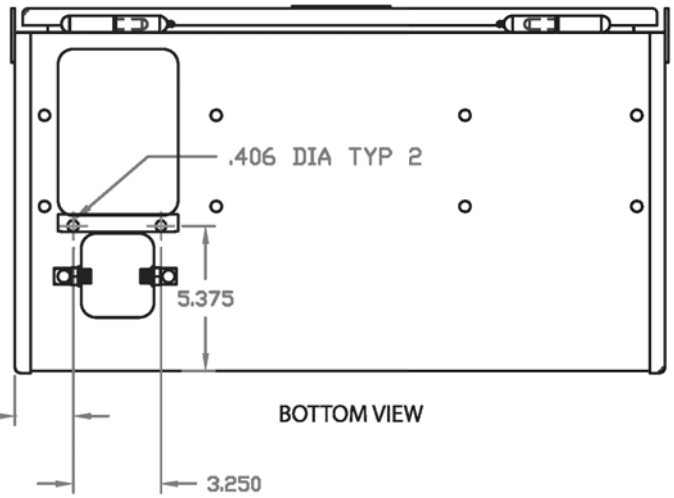
DEWEZE E/H KIT - 30" TOOLBOX MODIFICATION



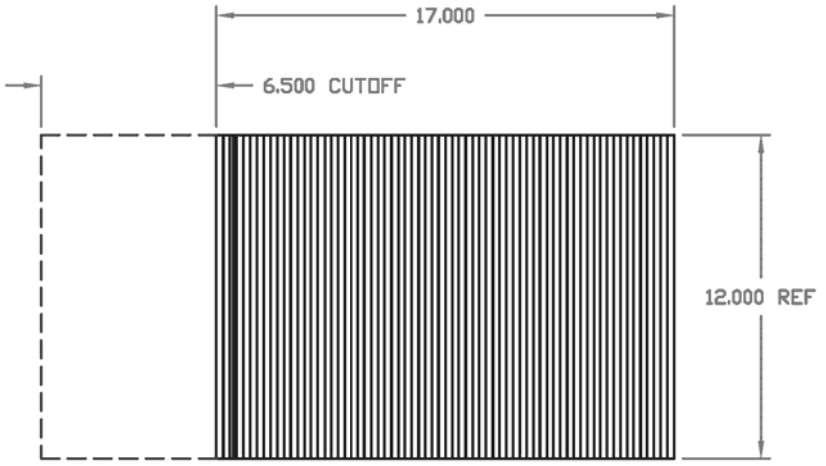
FRONT VIEW



REAR VIEW



BOTTOM VIEW



TOOL BOX MAT MODIFICATION