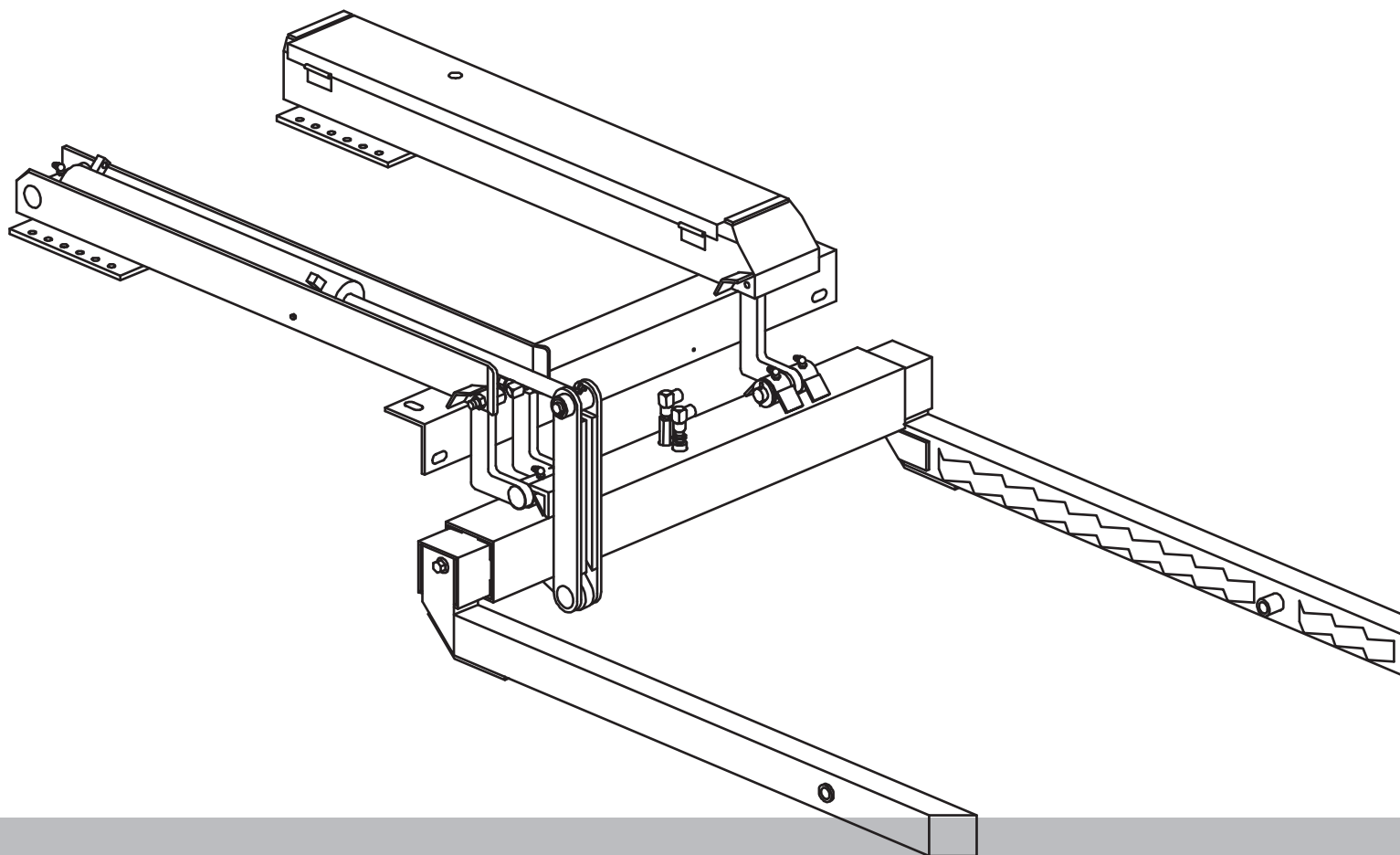


660 BALE LOADER

S/N 21A12 & Above



DewEze®

Thank you for purchasing a DewEze 660 Bale Loader.

TO THE OWNER OR OPERATOR:

Thank you for purchasing a DewEze 660 Bale Loader. We hope it provides you with many years of service. The 660 will convert any flat bed to a bale loader. This manual is written as an aid to operating and maintaining your 660.

Following publication of this manual, certain changes in standard or optional equipment may have occurred which would not be included in these pages. Your DewEze dealer is the best source for up to date information

Harper Industries, Inc. reserves the right to change product specifications at any time without incurring obligation to provide such updates to previously manufactured units.

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Statement of Warranty

Harper Industries, Inc. (HII) warrants to each purchaser of a new DewEze Bale Loader from an authorized dealer or representative, that such equipment is free of manufacturer's defects in workmanship and materials which appear while in normal service for a period of ONE YEAR commencing with delivery to the original user.

The obligation of HII under this warranty is expressly limited, at our option, to replacement or repair at a service facility designated by Harper Industries or at the manufacturing plant in Harper, KS. A part will be replaced after inspection discloses it to have been defective. This warranty does not apply to defects caused by damage or unreasonable use (including failure to provide reasonable and necessary maintenance, or by performing functions without genuine DewEze Bale Loader accessories) while in the possession of the consumer.

Warranty is limited to parts, labor and ground freight delivery of replacement parts. HII shall not be liable for the consequential damages of any kind, including but not limited to consequential labor costs or transportation charges in connection with replacement or repair of defective parts.

This warranty does not apply to parts subjected to misuse, abuse, alteration, improper or inadequate maintenance, or normal wear.

Harper Industries makes no warranty with respect to trade accessories. They are subject to the warranties of their respective manufacturers.

ANY IMPLIED OR STATUTORY WARRANTIES, INCLUDING ANY WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. HII makes no other express warranty, nor is anyone authorized to make any on behalf of HII.

For further information please contact your nearest DewEze Bale Loader dealer.

RECORDS

Date of Purchase _____ / _____ / _____

Dealer's Name _____

Dealer's Phone _____

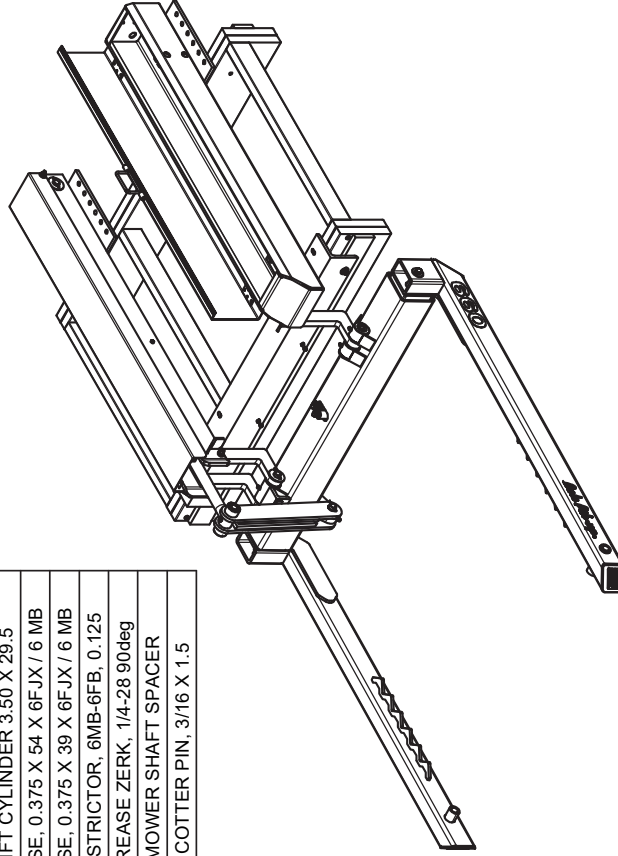
Serial Number _____

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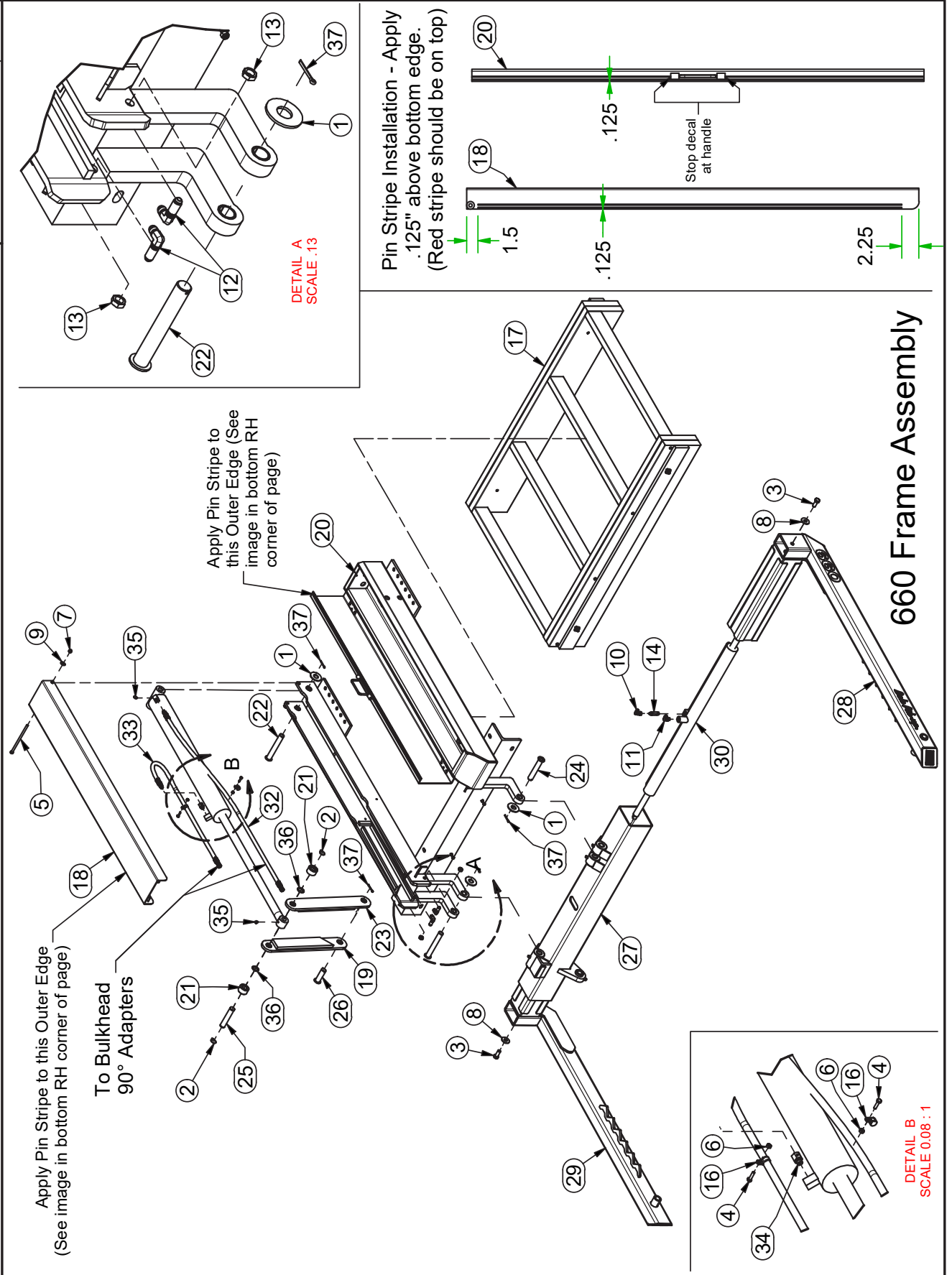
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Parts List				Parts List			
ITEM	QTY	PART #	DESCRIPTION	ITEM	QTY	PART #	DESCRIPTION
1	3	110038	WASHER, 1" FLAT STANDARD	20	1	210526	Weld Assy, 660
2	2	110127	RING, RETAINING 1"	21	2	210531	ROLLER BUSHING ASSEMBLY
3	2	110365	BOLT, 5/8-18 X 1.5 GR 5	22	2	210532	PIN, CROSSARM, 660
4	2	110464	BOLT, 1/4-20 X 1.0	23	1	210534	LINKAGE ARM ASSY, RIGHT
5	1	110532	BOLT, 3/8-16 X 8.0	24	1	210538	PIN ASM, CROSSARM, 660
6	2	110609	NUT, 1/4-20	25	1	210539	PIN, ROLLER, 660
7	1	110618	NUT, 3/8-16 LOCK NYLON INSERT	26	1	210540	PIN, CROSSARM, 660
8	2	110650	WASHER, 5/8" FLAT STANDARD	27	1	215423	Assy, Crossarm, 660, ASM
9	2	110676	WASHER, 3/8" FLAT STANDARD	28	1	215432	Arm, Right, 660, Assy.
10	1	120218	ADAPTER, 6MJ-6FJX90	29	1	215433	Arm, Left, 660, Assy.
11	1	120222	ADAPTER, 6MJ-6MB90	30	1	220002	CYLINDER, 2X34 CENTER PORT
12	2	120274	Adapter, 6mj-6mj90 Bulkhead	31	1	220349	LIFT CYLINDER 3.50 X 29.5
13	2	120292	NUT, BULKHEAD LOCKNUT, -6	32	1	220351	HOSE, 0.375 X 54 X 6FJX / 6 MB
14	1	120484	ADAPTER, 6MJ-6MB-LONG	33	1	220352	HOSE, 0.375 X 39 X 6FJX / 6 MB
15	2	200012	DECAL, RED/SILVER STRIPE	34	1	220509	RESTRICTOR, 6MB-6FB, 0.125
16	2	200019	CLAMP, ADEL AC10 .265 HOLE	35	2	500230	GREASE ZERK, 1/4-28 90deg
17	1	202151	Frame, Shipping, 660	36	2	510055	MOWER SHAFT SPACER
18	1	210505	COVER ASSY, CYLINDER	37	4	510462	COTTER PIN, 3/16 X 1.5
19	1	210510	LINKAGE ARM ASSY, LEFT				

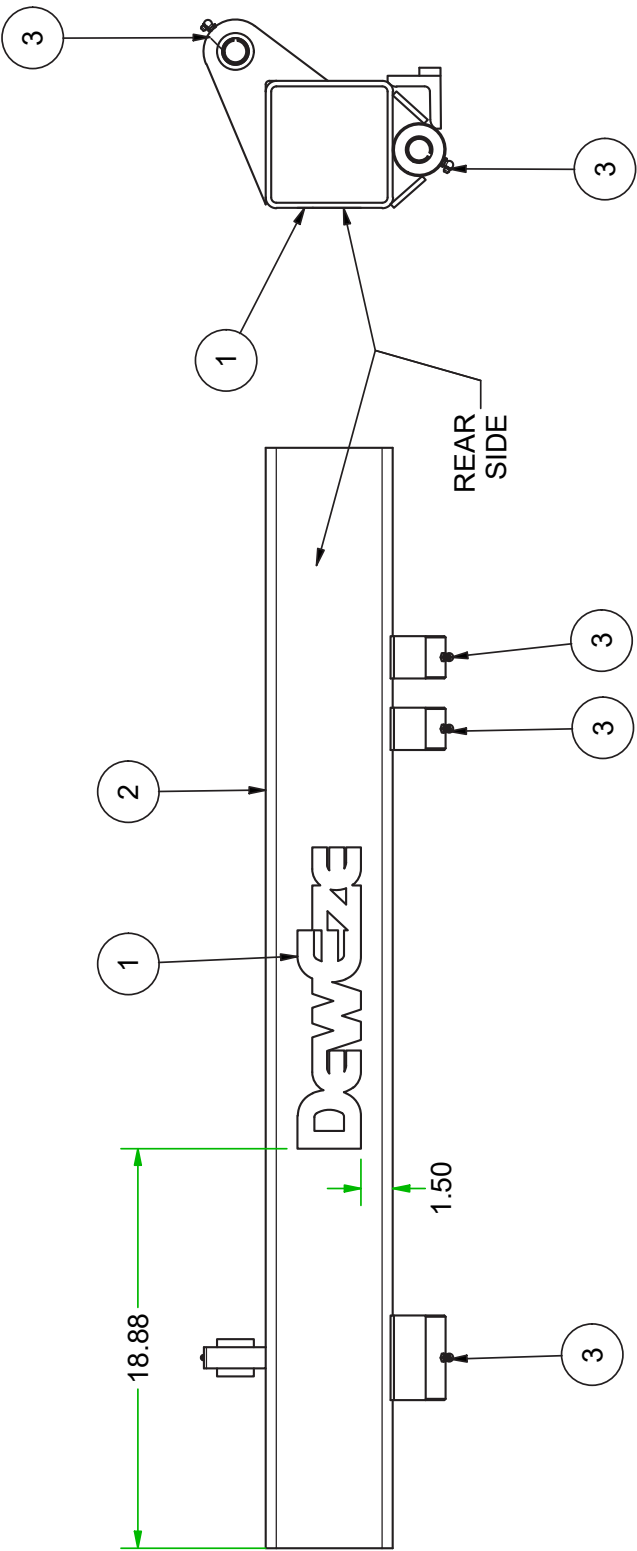


660 Frame Assembly

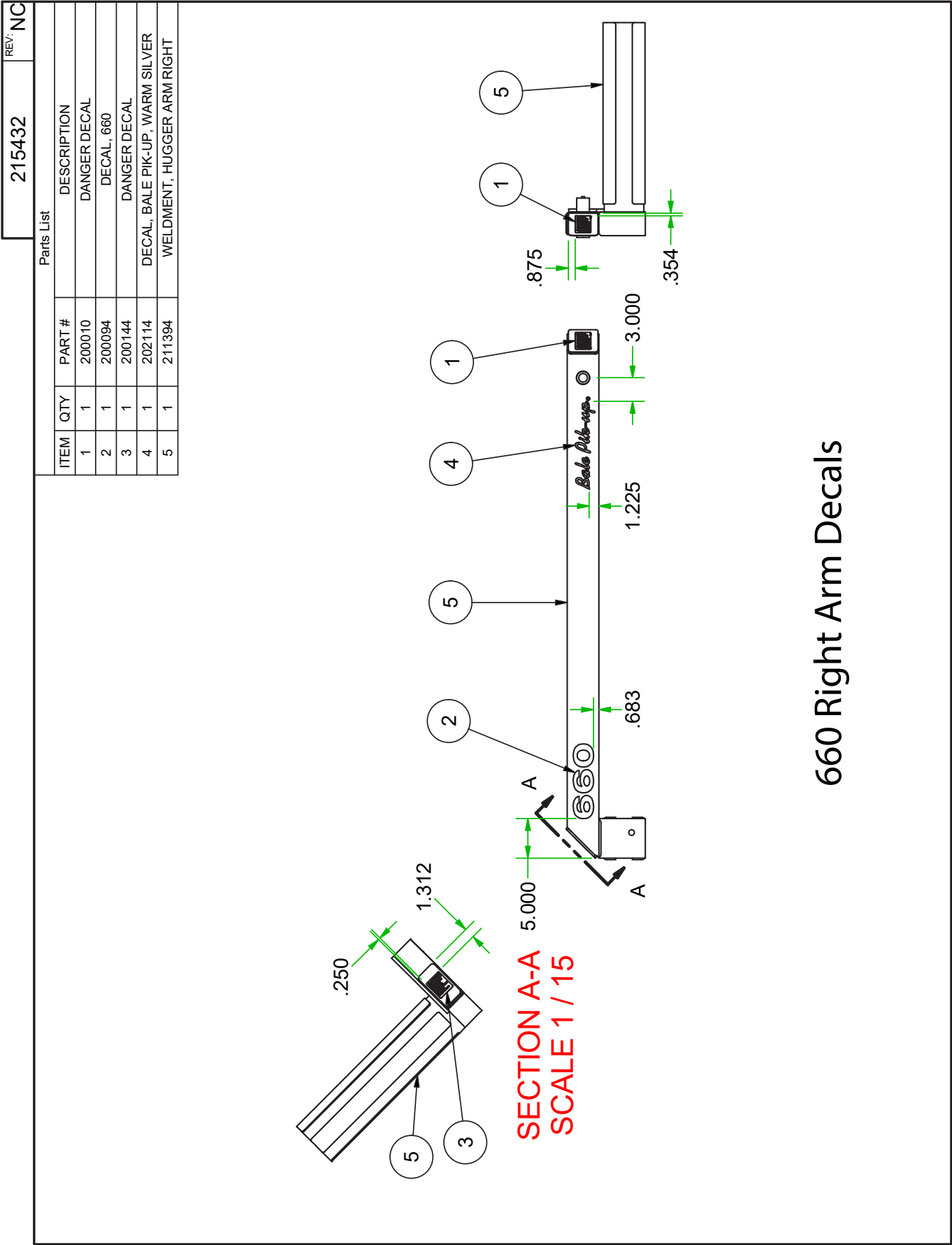


NOTE: Install Grease Zerk pointed to the rear.

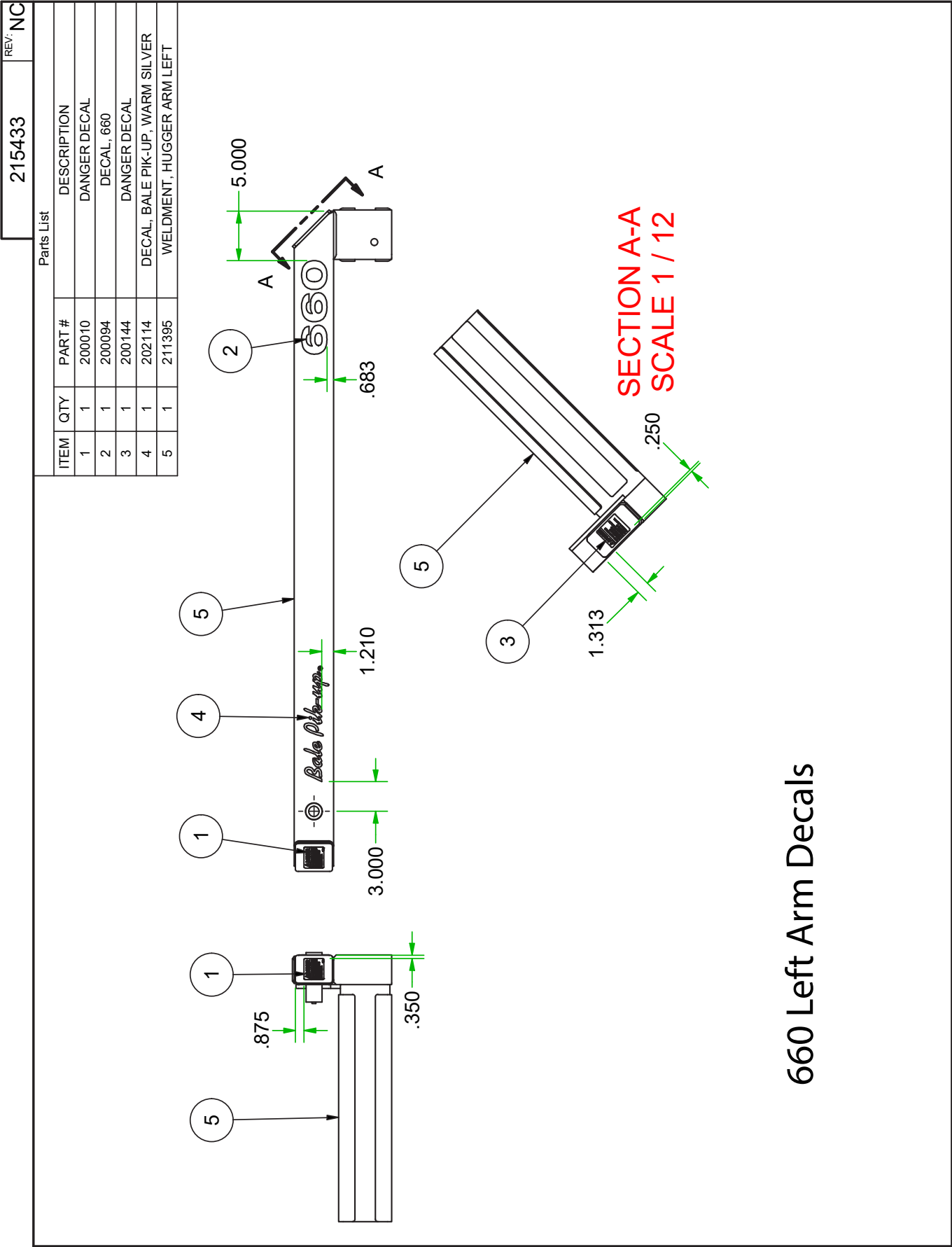
Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	1	200105	DECAL, DEWEZE SILVER
2	1	210492	CROSSARM ASM
3	4	500230	GREASE ZERK, 1/4-28 90deg



660 Crossarm Assembly



660 Right Arm Decals



660 Left Arm Decals

210708

ITEM

QTY

PART #

DESCRIPTION

ITEM

QTY

PART #

DESCRIPTION

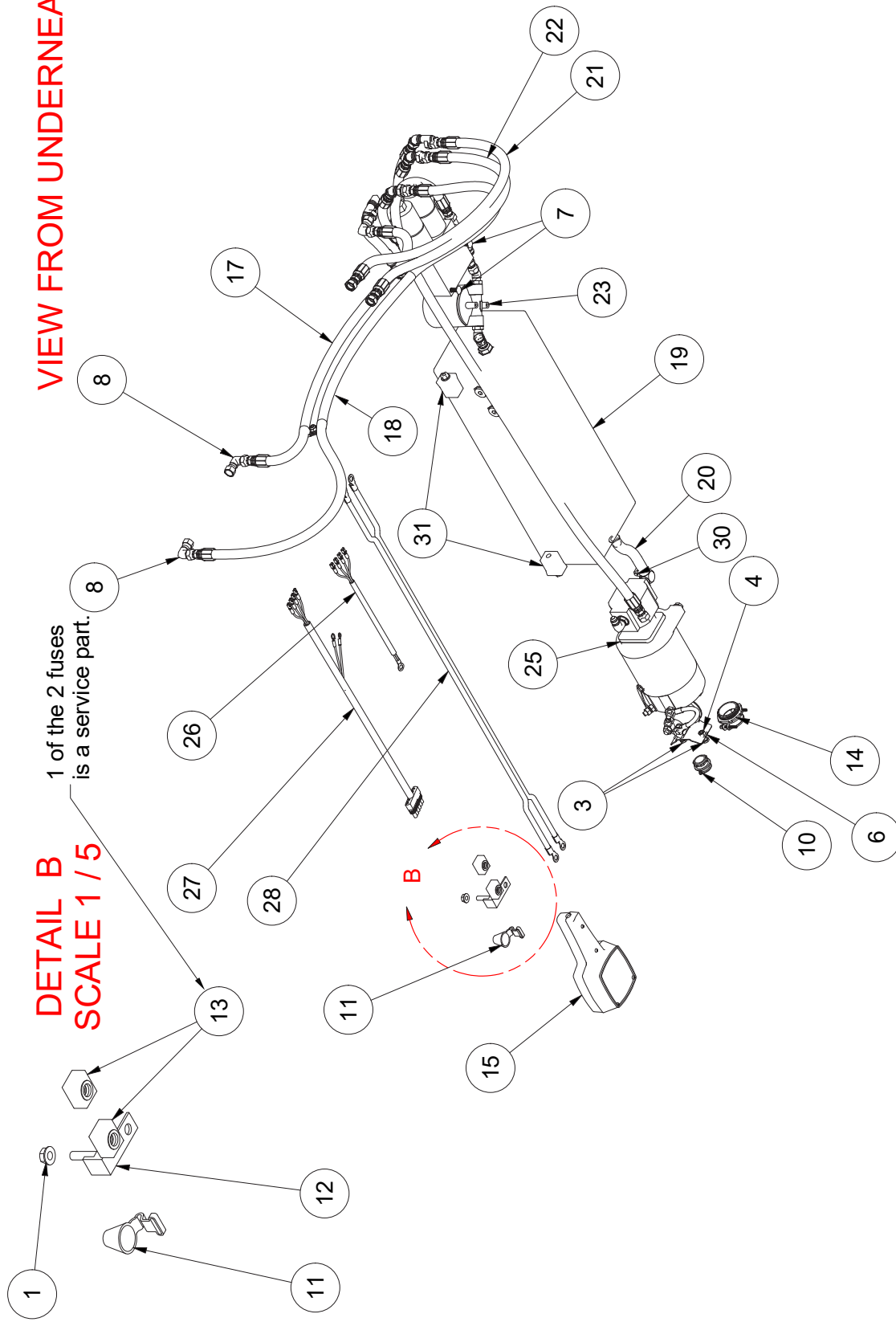
1	1	110141	NUT, M8 X 1.25 WIZFLANGE	17	1	220354	HOSE ASSY, LIFT CYLINDER
2	2	110437	BOLT, 3/8-16 X 0.75, WIZ FLANGE	18	1	220355	HOSE ASSY, LIFT CYLINDER
3	2	110561	BOLT, 1/4-20 X .75	19	1	220549	RESERVOIR ASSEMBLY
4	2	110609	NUT, 1/4-20	20	1	220586	SUCTION HOSE
5	4	110630	NUT, 1/4-20 LOCK (NYLON INSERT)	21	1	220815	Hose .37 X 30 6FJX/6FJX
6	4	110673	WASHER, 1/4" FLAT STANDARD	22	1	220816	Hose, 0.37 X 28 6FJX/6FJX
7	2	111193	Bolt, 1/4-20 x 3, Carriage, Gr 5	23	1	225043	Assy, Filter, Return, 660
8	3	120218	ADAPTER, 6MJ-6FJX90	24	1	225044	Assy, Valve, Hoses, 660
9	4	120292	NUT, BULKHEAD LOCKNUT, -6	25	1	220563	660 E/H Power Unit
10	1	130026	CONNECTOR, ROMEX	26	1	230119	CABLE, SOLENOID GROUND
11	1	132092	FUSE COVER, BUSS CFCOVER-1R	27	1	230120	CABLE, E/H END, 660
12	1	132093	FUSE HOLDER, BUSS CFBAR1-M8XSP	28	1	230156	BATTERY CABLE, 2GA TWIN LEAD, 224"
13	2	132094	FUSE 200 AMP, BUSS MRBF-200	29	1	232089	Solenoid, 3 Post
14	1	132181	Connector, Romex, 1.25	30	2	520098	CLAMP, HOSE #10 .50"
15	1	150025	HAND CONTROL & CABLE ASSY 365/660	31	1	820025	MOUNT, OIL COOLER KIT
16	4	200019	CLAMP, ADEL AC10 .265 HOLE				

Parts List

[A] Position & location of bulkhead adapters is determined by holes in frame Assy. 210526.

660 E/H Assembly

210708



660 E/H Assembly

225043

REV: NC

Parts List

ITEM	QTY	PART #	DESCRIPTION
1	2	120219	ADAPTER, 6MJ-6MB 45
2	1	122035	Adapter, 6F-JX 6F-JX
3	1	220559	FILTER ELEMENT
4	1	822020	FILTER HEAD, SPIN ON, 6 FB PORTS

Install fittings on filter head or manifold.
Do not torque the jam nuts for swivel nuts until the assembly is installed between the valve and the reservoir.

Connect to control valve

Connect to reservoir

Direction of Flow

(135°)

(135°)

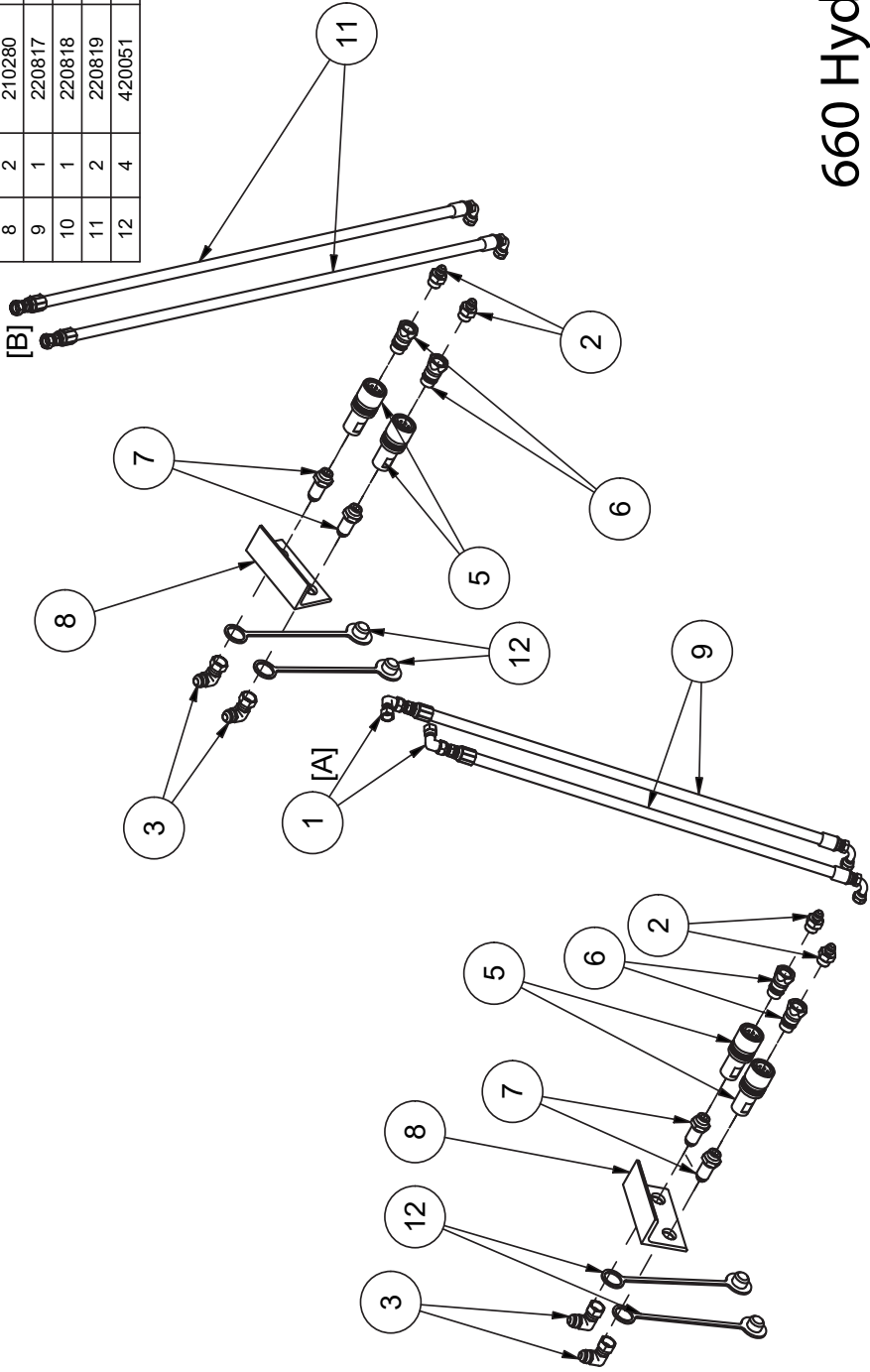
Filter Assembly

220378

[A] Connects to the lift cylinder lines.
[B] Connects to the squeeze cylinder adapters.

Parts List

ITEM	QTY	PART #	DESCRIPTION
1	2	120218	ADAPTER, 6MJ-6F-JX90
2	4	120239	ADAPTER, 6MJ-8MB
3	4	120368	ADAPTER, 8MJ-8F-JX90
4	4	120577	NUT, BULKHEAD LOCKNUT, -8
5	4	120581	Coupler, Pioneer Female, ORB
6	4	120582	Coupler, Pioneer Male, ORB
7	4	120750	Adapter, 8MB-8MJ, Bulkhead
8	2	210280	BRACKET, COUPLER
9	1	220817	Hose .37 X 30 6FJX/6F-JX90
10	1	220818	Hose .37 X 28 6FJX/6F-JX90
11	2	220819	Hose, 0.37 X 39 6mj/6fjx90
12	4	420051	DUST PLUG, PIONEER COUPLER



660 Hydraulic Kit

225044

REV: NC

Parts List

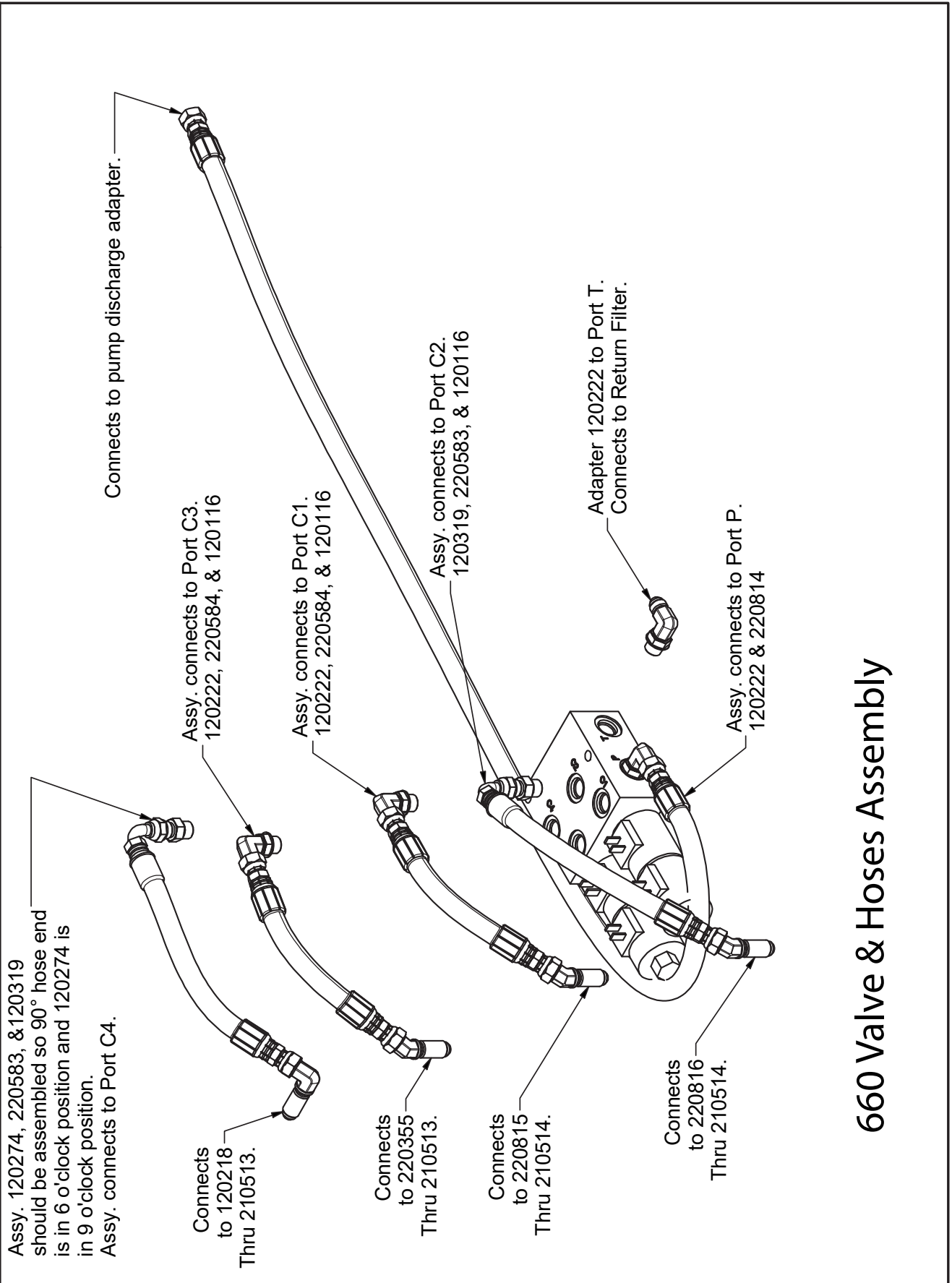
ITEM	QTY	PART #	DESCRIPTION
1	3	120116	Adapter, 6mj-6m45 Bulkhead
2	4	120222	ADAPTER, 6MJ-6MB90
3	1	120274	Adapter, 6mj-6mj90 Bulkhead
4	2	120319	ADAPTER, 6MJ-6MB
5	1	220492	VALVE, E/H FLATBED
6	2	220583	HOSE ASSY, VALVE
7	2	220584	HOSE ASSY, VALVE
8	1	220814	Hose .37 X 52.25 6F JX/6FJX

660 Valve & Hoses Assembly

E/H VALVE ASSEMBLY

200223

ITEM	PART NO.	DESCRIPTION
1	210871	Solenoid Valve Cartridge
2	820229	Solenoid Coil 12VDC Dual Spade



660 Valve & Hoses Assembly

210708

REV: P

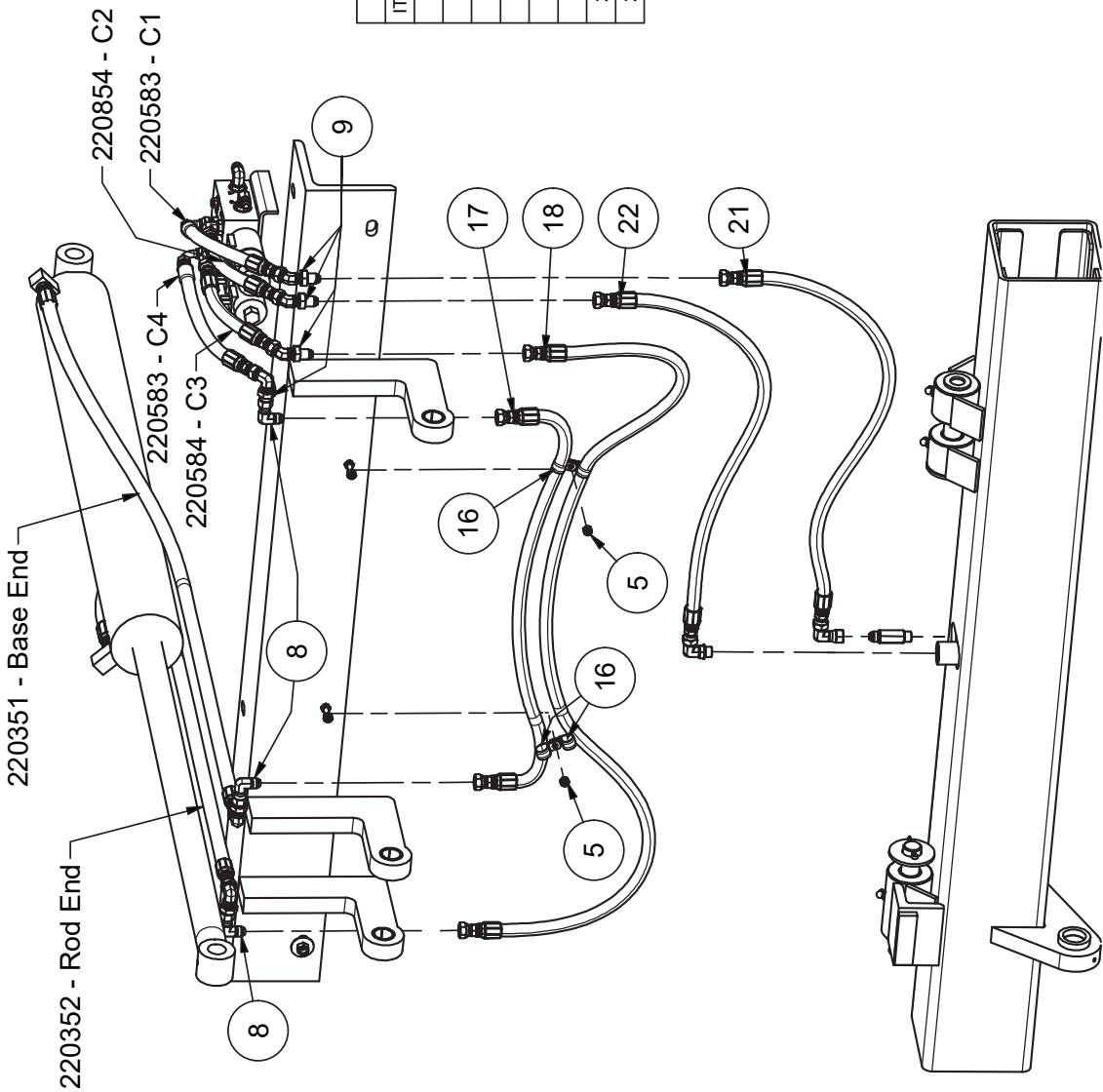
Parts List

ITEM	QTY	PART #	DESCRIPTION
1	1	110141	NUT, M8 X 1.25 W/FLANGE
2	2	110437	BOLT, 3/8-16 X 0.75, W/IZ FLANGE
3	2	110561	BOLT, 1/4-20 X .75
4	2	110609	NUT, 1/4-20
5	4	110630	NUT, 1/4-20 LOCK (NYLON INSERT)
6	4	110673	WASHER, 1/4" FLAT STANDARD
7	2	111193	Bolt, 1/4-20 x 3, Carriage, Gr 5
8	3	120218	ADAPTER, 6MJ-6FJX90
9	4	120292	NUT, BULKHEAD LOCKNUT, -6
10	1	130026	CONNECTOR, ROMEX
11	1	132092	FUSE COVER, BUSS CFCOVER-1R
12	1	132093	FUSE HOLDER, BUSS CFBAR1-M8XSP
13	2	132094	FUSE 200 AMP, BUSS MRBF-200
14	1	132181	Connector, Romex, 1.25
15	1	150025	HAND CONTROL & CABLE ASSY 365/660
16	4	200019	CLAMP, ADEL AC10 .265 HOLE
17	1	220354	HOSE ASSY, LIFT CYLINDER
18	1	220355	HOSE ASSY, LIFT CYLINDER
19	1	220549	RESERVOIR ASSEMBLY
20	1	220586	SUCTION HOSE
21	1	220815	Hose .37 X 30 6FJX/6F-JX
22	1	220816	Hose, 0.37 X 28 6FJX/6FJX
23	1	225043	Assy, Filter, Return, 660
24	1	225044	Assy, Valve, Hoses, 660
25	1	225045	Assy, Motor, Pump, Adapters
26	1	230119	CABLE, SOLENOID GROUND
27	1	230120	CABLE, E/H END, 660
28	1	230156	BATTERY CABLE, 2GA TWIN LEAD, 224"
29	2	520098	CLAMP, HOSE #10 .50"
30	1	820025	MOUNT, OIL COOLER KIT

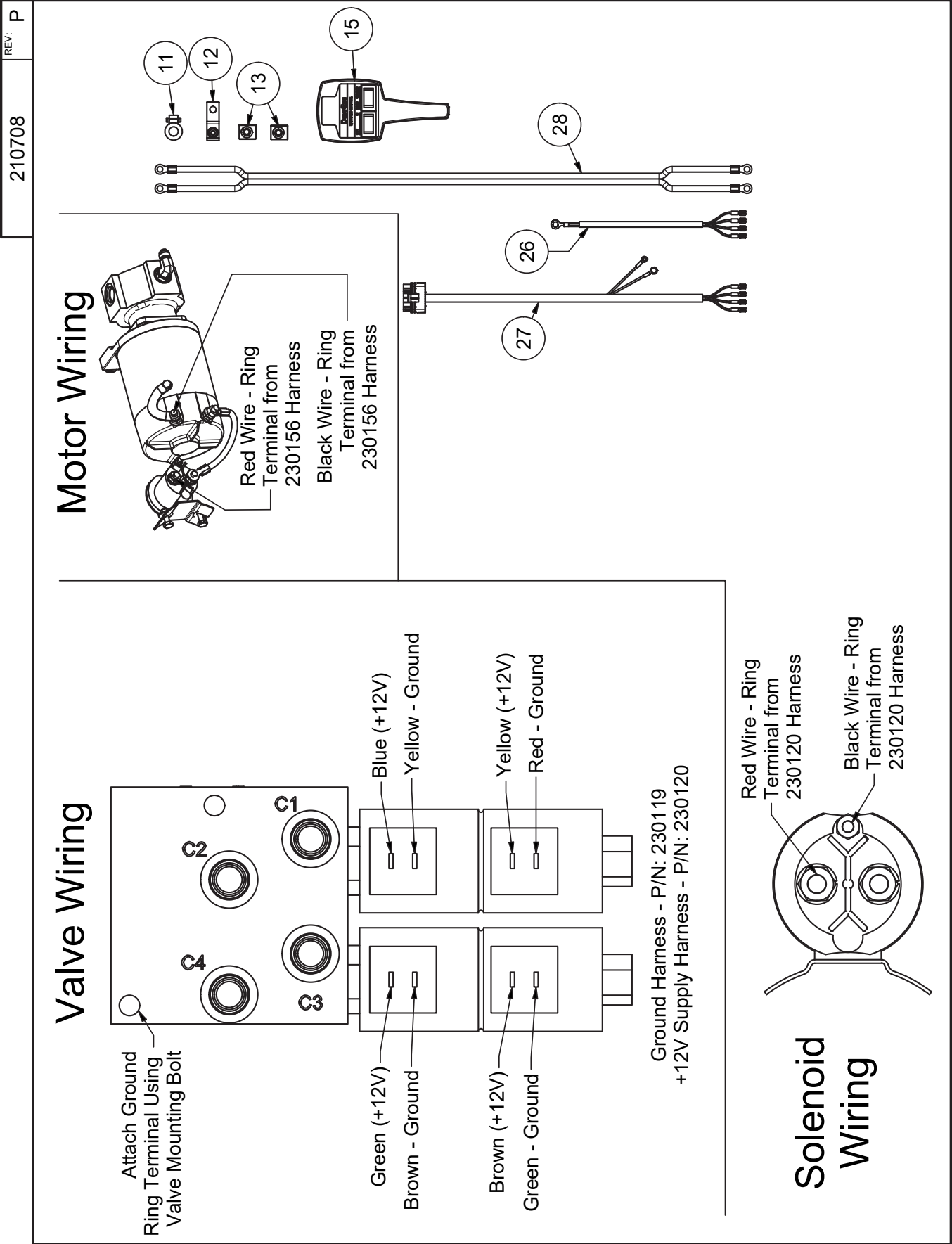
Install plug & ship
vent plug loose

Hydraulic Assembly

Rear Hose Installation



Parts List			DESCRIPTION
ITEM	QTY	PART #	
5	4	110630	NUT, 1/4-20 LOCK (NYLON INSERT)
8	3	120218	ADAPTER, 6MJ-6FJX90
9	4	120292	NUT, BULKHEAD LOCKNUT, -6
16	4	200019	CLAMP, ADEL AC10 .265 HOLE
17	1	220354	HOSE ASSY, LIFT CYLINDER
18	1	220355	HOSE ASSY, LIFT CYLINDER
21	1	220815	Hose .37 X 30 6FJX/6FJX
22	1	220816	Hose, 0.37 X 28 6FJX/6FJX



Exploded view diagram of the 660 unit. Components are numbered 1 through 12. 1: Top housing, 2: Bottom housing, 3: Switch plate, 4: Decal hand control, 5: Screw #6-32 x 1/4 type F, 6: Screw #6-32 x 1.50" SHT MTL, 7: Control cable, 8: Switch DPDT, 9: Wire 16GA, 10: Screw, 11: Wire end spade 16-14, 12: Hole plug (vhp).

ITEM	QTY	PART #	DESCRIPTION
1	1	150001	TOP HOUSING
2	1	150003	BOTTOM HOUSING
3	1	150002	SWITCH PLATE
4	1	150023	DECAL HAND CONTROL
5	4	150013	SCREW #6-32 X 1/4 TYPE F
6	2	150015	SCREW #6-32 X 1.50" SHT MTL
7	1	230121	CONTROL CABLE
8	2	130029	SWITCH DPDT
9	3.0FT	130032	WIRE 16GA
10	2	150014	SCREW
11	8	730009	WIRE END SPADE 16-14
12	1	832033	Hole Plug (vhp)

WIRING DIAGRAM
SWITCHES SHOWN FROM BOTTOM

UNLOAD JUMPER IN OUT

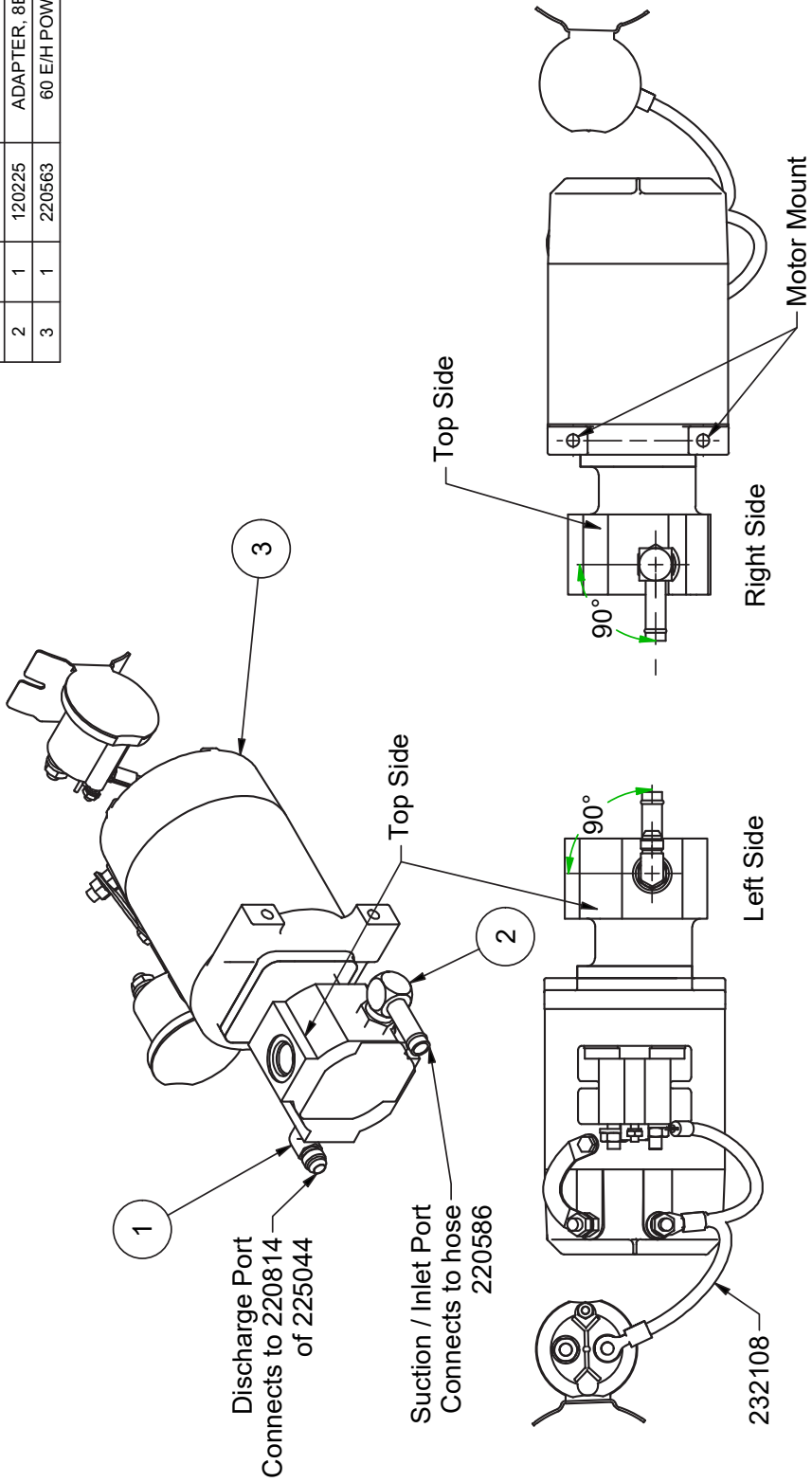
SWITCH SWITCH

JUMPER

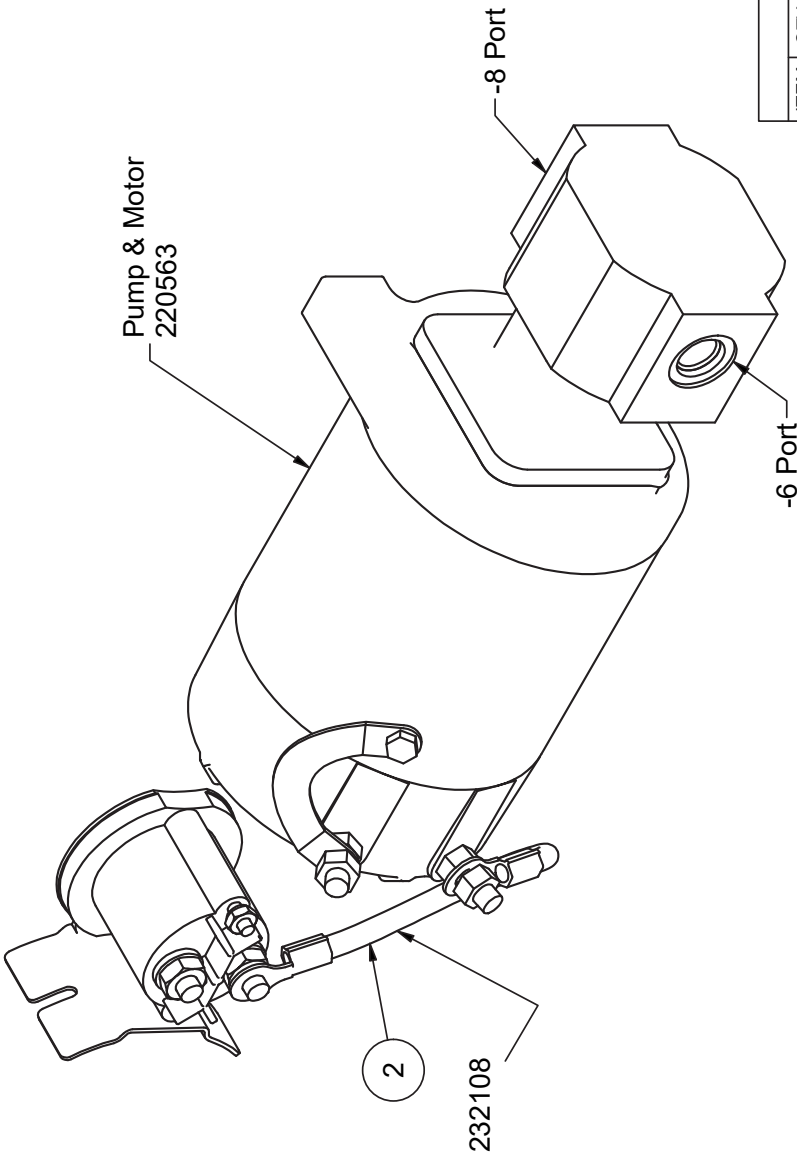
PLUG

GREEN
BROWN
BLUE
YELLOW
RED
BLACK

Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	1	120222	ADAPTER, 6MJ-6MB90
2	1	120225	ADAPTER, 8BH-8MB90
3	1	220563	60 E/H POWER UNIT



660 Pump, Motor, & Adapters Assembly



Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	1	220563	660 E/H POWER UNIT
2	1	232108	Cable, 4 Ga, 6", Red

220549

REV: D

Parts List

ITEM	QTY	PART #	DESCRIPTION
1	1	120494	ADAPTER, 8BH-8MB
2	2	120526	Plug, 8mb, Internal Hex Head
3	1	122036	Adapter, 6FJX 8MB
4	1	200441	DECAL, REMOVE VENT PLUG
5	1	220433	BREATHER PLUG, 3/8 NPT
6	1	220531	365-660 RESERVOIR
7	1	720108	FITTING, PLUG 3/8" PIPE

Diagram illustrating the Hydraulic Reservoir Assembly. The assembly consists of a reservoir (6) with various fittings and plugs. Key components labeled include:

- 1: Breather Plug, 3/8 NPT
- 2: Plug, 8mb, Internal Hex Head
- 3: Plug 6FJPLUG installed in 122036 for storage.
- 4: CAUTION label: REMOVE VENT PLUG BEFORE OIL FILLING. DO NOT REMOVE VENT PLUG BEFORE OIL FILLING.
- 5: Breather Plug, 3/8 NPT
- 6: 365-660 RESERVOIR
- 7: Fitting, Plug 3/8" Pipe

Hydraulic Reservoir Assembly

NOTES

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