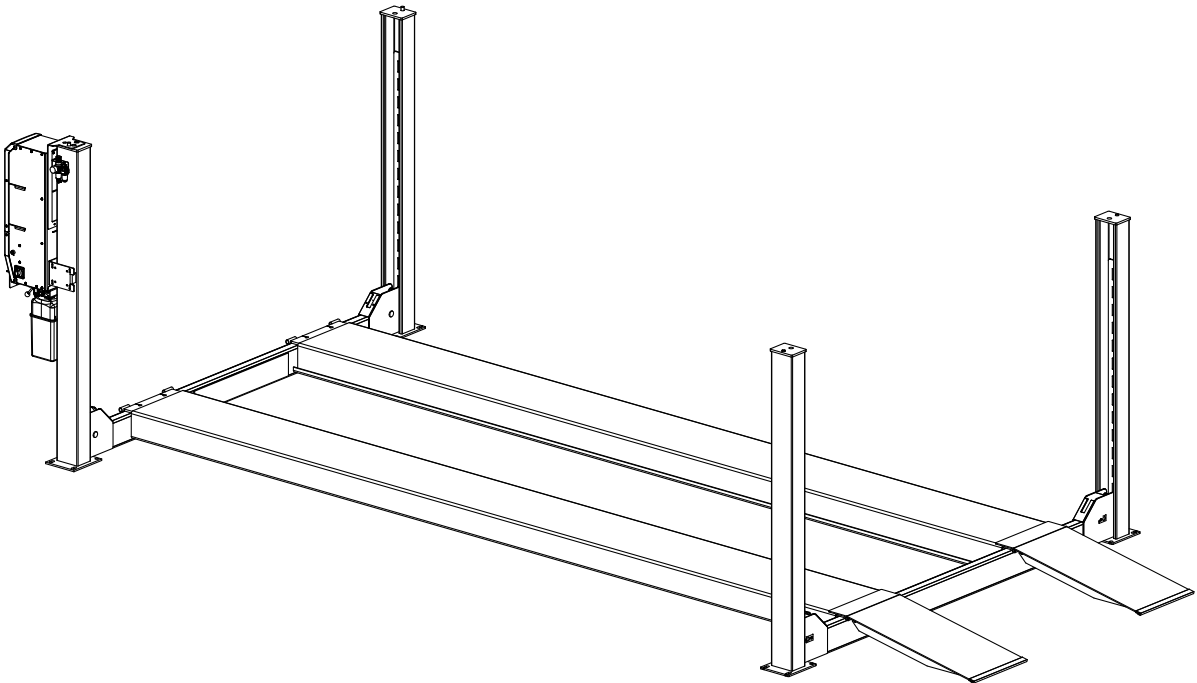




SHOCKWAVE EQUIPPED AR14/SM14

Four Post Surface Mounted Lift
Capacity 14,000 lbs. (7,000 lbs. per axle)



P
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N

IMPORTANT: When ordering parts or requesting service always give exact model and power unit serial number. Model number is shown on nameplate attached to air lock release valve. Power unit serial number is located on side of power unit.

OWNERS RECORD
Complete information
at right and keep in
a safe place.

Date Installed _____

Installed in Bay # _____

Power Unit Serial # _____

Power Unit Model # _____

Lift Serial # _____

Lift Model # _____

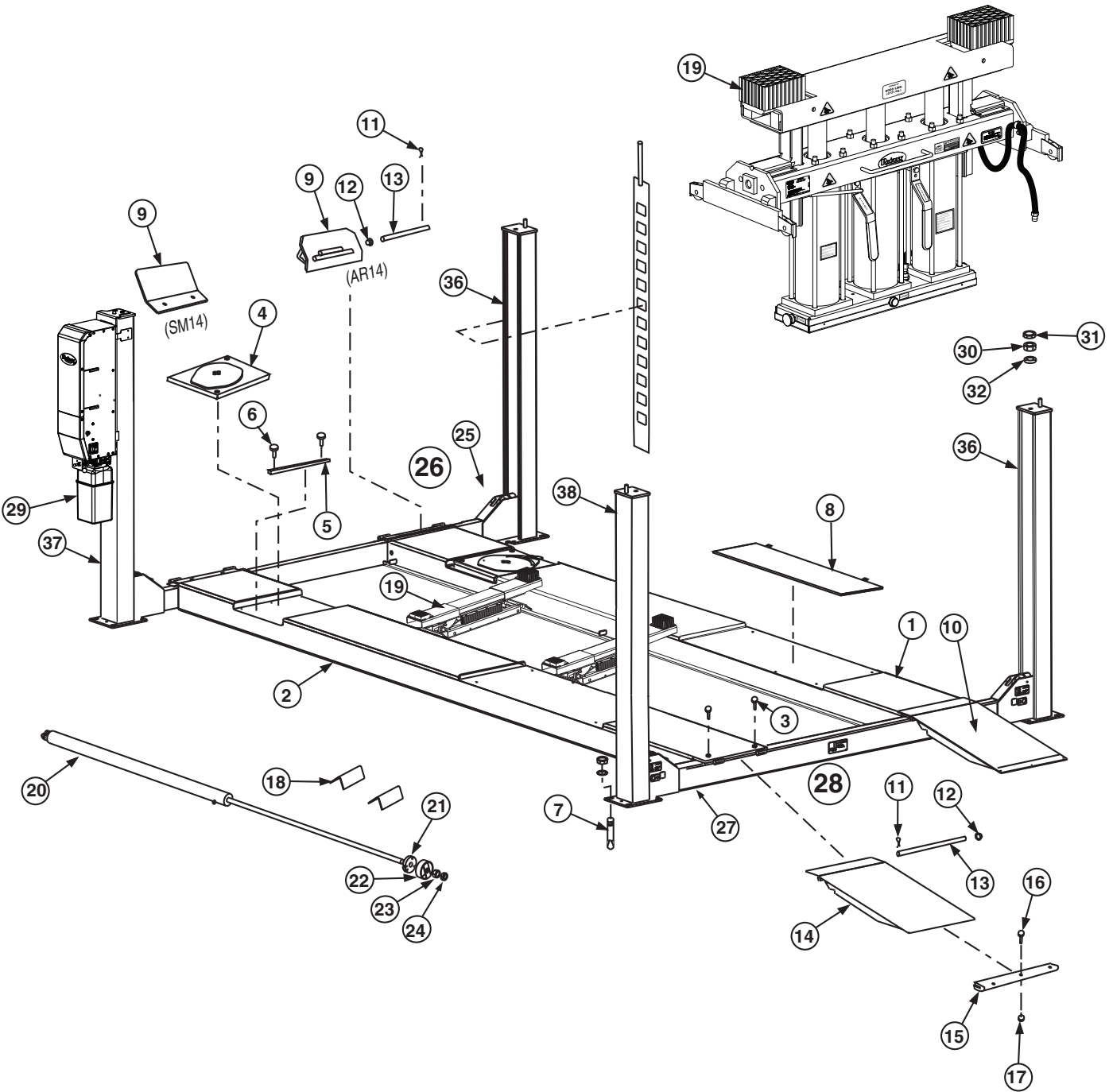
NOTE: For replacement parts -See your nearest Rotary Parts Distributor.

PB 2-3-3-15

Rev. B 12/13/2022

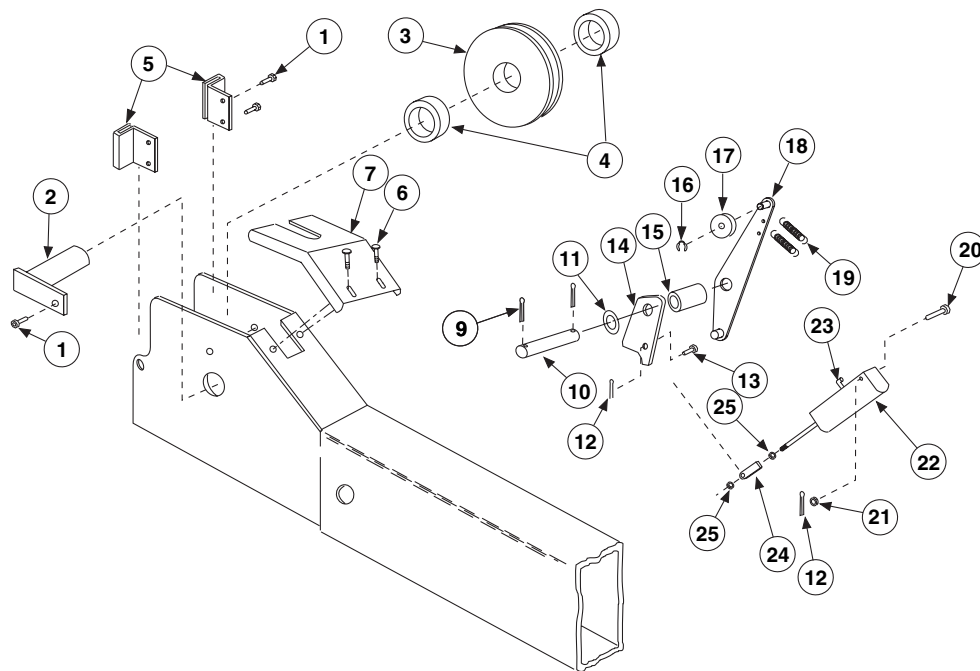


RUNWAY TABLE		
LIFT MODEL	Left Hand Runway Assembly <i>(Includes cylinder, cables and sheaves)</i>	Right Hand Runway Assembly/ Weldment
SM14S / 158 1/2" WB	S110304	S120698
SM14L / 182 1/2" WB	S110305	S120700
SM14EL / 206 1/2" WB	S110306	S120702
SM14S NB / 158 1/2" WB	S110307	S120698
SM14L NB / 182 1/2" WB	S110308	S120700
SM14EL NB / 206 1/2" WB	S110309	S120702
AR14S / 158 1/2" WB	S110336	S110337
AR14L / 192 1/2" WB	S110338	S110339
AR14EL / 212 1/2" WB	S110340	S110341
AR14L NB / 192 1/2" WB	S110342	S110339

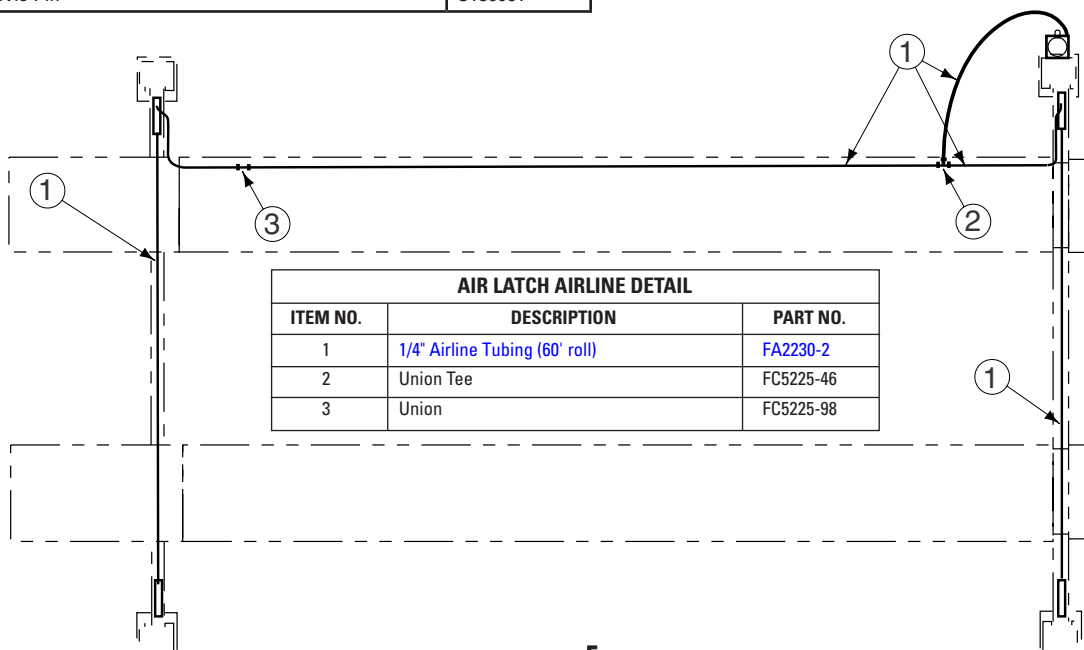


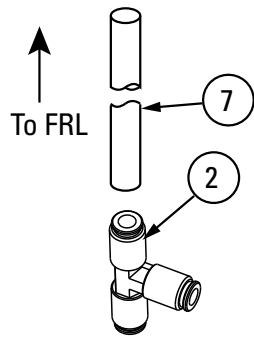
ITEM	DESCRIPTION	PART NO.	
1	R.H. Runway Assembly	Refer to table on opposite page	
2	L.H. Runway Assembly (Includes cylinder, cables and sheaves)	Refer to table on opposite page.	
		SM14	AR14
3	1/2" — 13NC x 1 1/4" Flg. Whiz-Lock HHCS (High Strength)	40279	40279
4	Radius Gauge	NA	FA5153
5	Turntable Guide Arm	NA	FA5153-1
6	5/16"-18NC x 5/8" Whiz-Lock	NA	42073
7	5/8" Anchor Bolt	FJ7386	FJ7386
8	Rear Slip Plate Kit	NA	S11033
9	Wheel Stop (SM)	FC342	FC134-13
*10	Ramp Chock Assembly (Standard)	S110302	S110302
	Ramp Chock Assembly (Extended)	S110303	S110303
11	5/32" x 1" Lg. Cotter Pin	41202	41202
12	5/8" Push Nut Fastener — TRW #PW625019 Or Equal	FC5179-4	FC5179-4
13	Hinge Pin	FC134-99	FC134-99
14	Ramp Chock Weld (Standard)	S120689	S120689
	Ramp Chock Weld (Extended)	S120691	S120691
15	Ramp Chock Slide	FC134-33	FC134-33
16	#10-24NC x 3/4" SLTRUSSHMS	40050	40050
17	#10-24NC Flg. Whiz-Lock Nut	40633	40633
18	Triangular Wheel Chock	FC320	FC320
19	Rolling Jack	RJ7000/RJ7000Z	RJ7000/RJ7000Z/SJ8000
	Swing Air Jack - Optional	SJ8000	SJ8000
20	Hydraulic Cylinder	S130329	S130330
21	Cable Pull Bar	S120706	S120706
22	Cable Retainer	S120068	S120068
23	1 3/8"-6NC Hex Nut	40771	40771
24	1 3/8"-6NC Hex Jam Nut	40773	40773

25	Front Yoke Weldment	S120678	S120678
26	Front Yoke Ass'y (Including Latches)	S110298	S110298
27	Rear Yoke Weldment	S120684	S120684
28	Rear Yoke Ass'y (Including Latches)	S110299	S110299
29	Power Unit	P3592	P3592
30	1"-8NC Hex Nut	40768	40768
31	1"-8NC Hex Jam Nut	40767	40767
32	1"-8NC Flat Washer	41113	41113
33	Latch Bar	S120028	S120028
34	3/4"-10NC Hex Jam Nut	40759	40759
35	3/4"-10NC Hex Nut	40760	40760
36	Column	S110300	S110300
37	Power Unit Column	S110301	S110301
38	Column	S120687	S120687

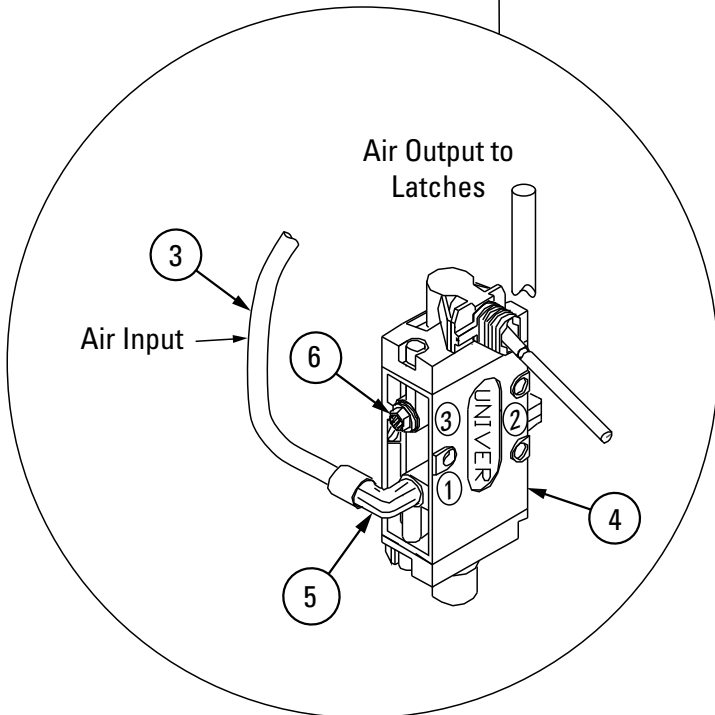
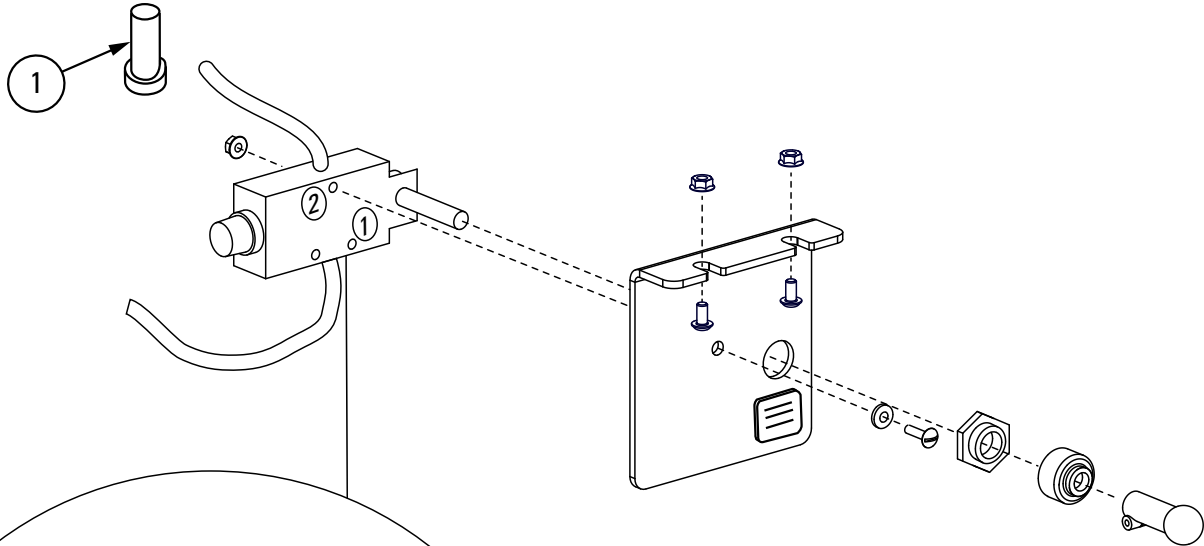


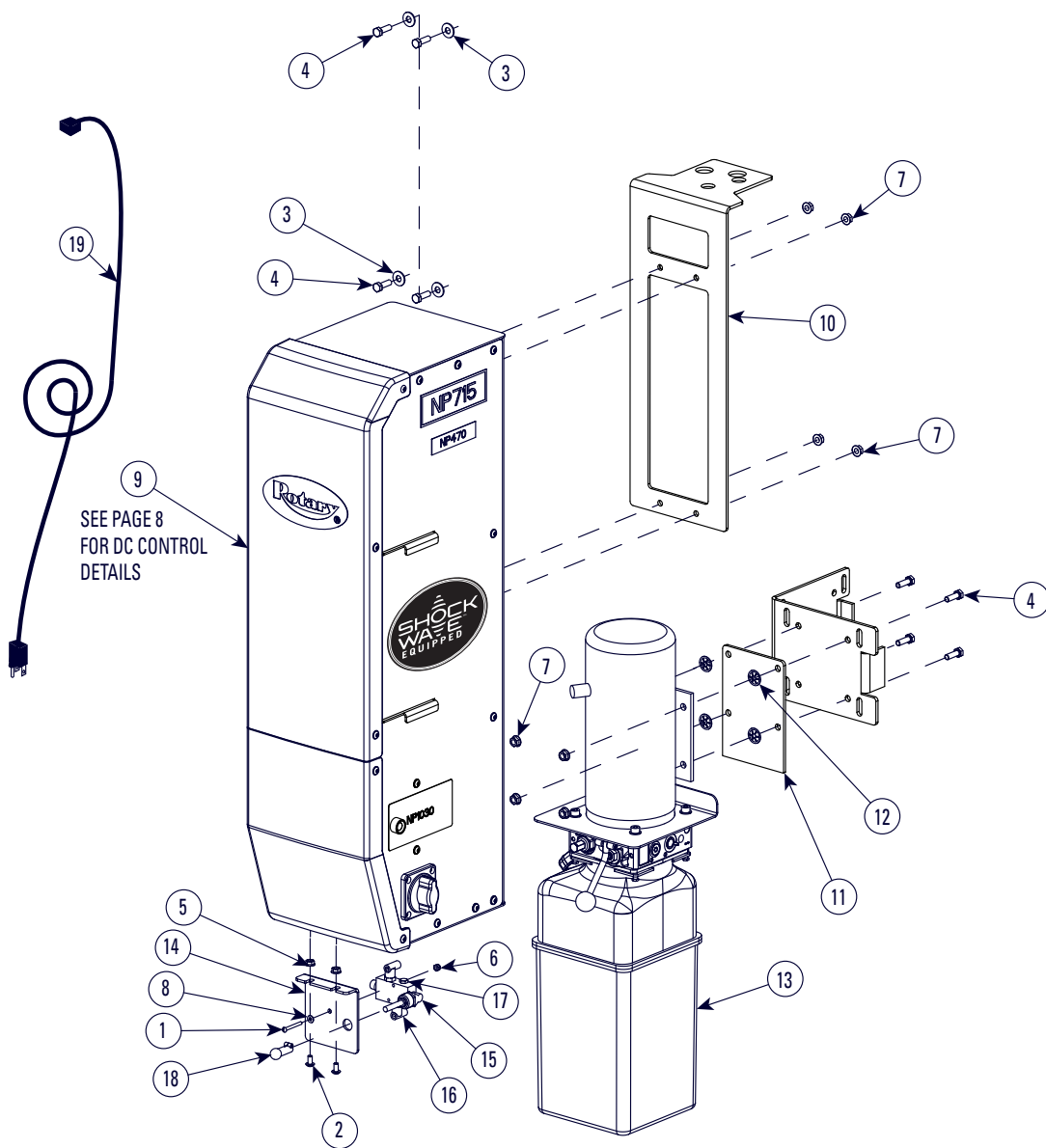
YOKE END DETAIL			YOKE END DETAIL		
ITEM	DESCRIPTION	PART NO.	ITEM	DESCRIPTION	PART NO.
1	5/16"-18NC x 3/4" Lg. Hex Head Cap Screw	40252	14	Latch	FC5706-10
2	Sheave Pin		15	Spacer	FC5706-09
	Standard	FC5224-21	16	3/8" Snap Ring TRUARC #5304-37	41410
	Chrome Plated	FC5728-7	17	Slack Cable Roller	FC553-21
3	Sheave	FC5810-10	18	Kicker	S120103
4	Yoke Sheave Spacer	S130203	19	Extension Spring	FC522-25
5	Slider	FC5706-16	20	Clevis Pin	S130051
6	Nylon Tree Rivet	S130120	21	1/4" Flat Washer	40782
7	Guard	FC5802-18	22	Air Cylinder	
8	Number Not Used	N/A		1-Port	S130061
9	Cotter Pin, 1/8" X 1 1/4"	41201		2-Port	S130017
10	Latch Shaft	FC5901-7	23	Elbow	FC5224-39
11	Washer	FC5301-98	24	Clevis	FC5706-7
12	1/4" Hairpin Cotter Pin (.05" dia. wire)	41901	25	1/4" -28NF Hex Nut	40622
13	Clevis Pin	S130051			





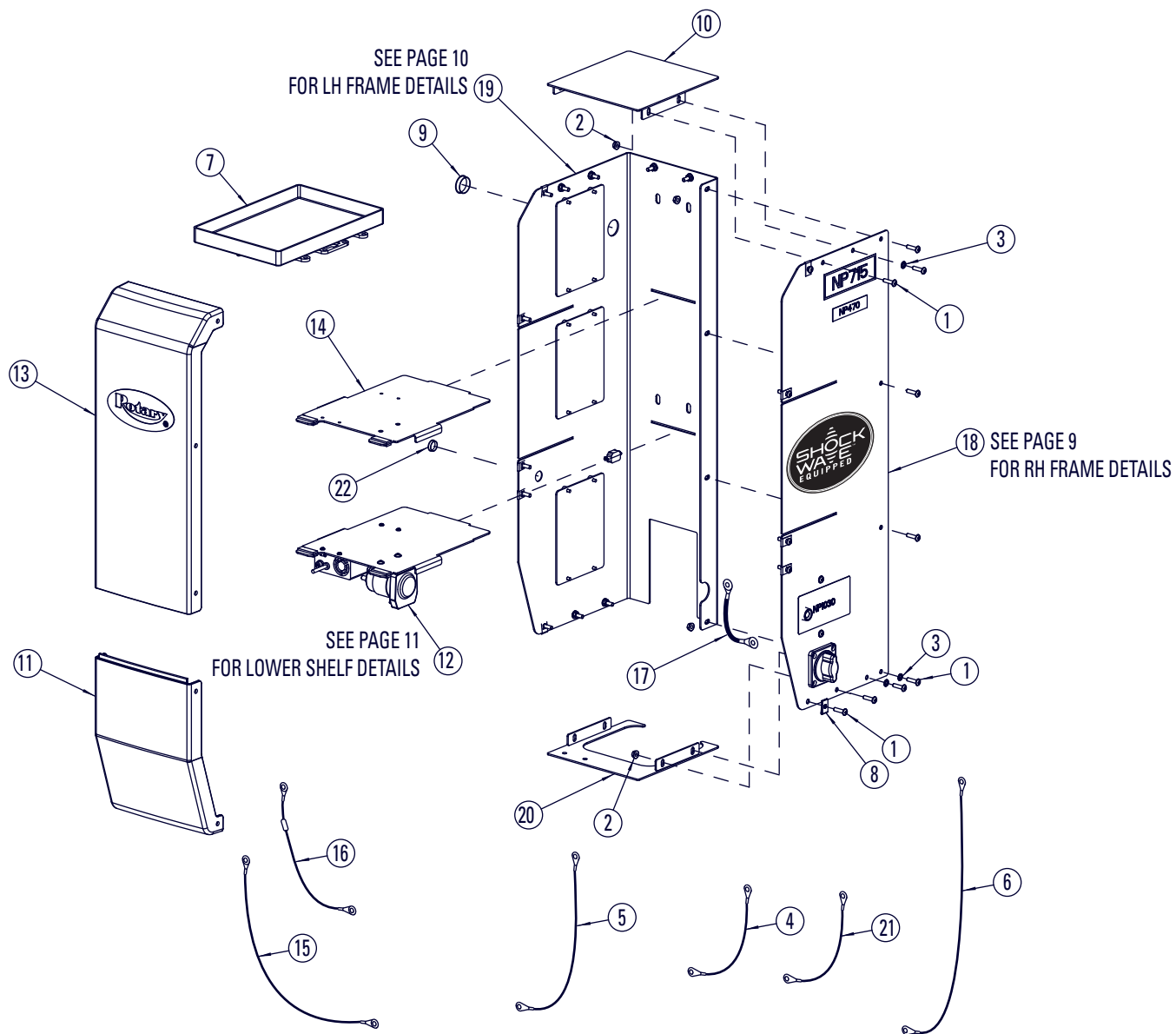
AIR LOCK RELEASE VALVE DETAIL		
ITEM NO.	DESCRIPTION	PART NO.
1	3/8" Plug	FA2230-16
2	Union Tee	FA2242-1
3	1/4" Tubing	FC2230-2
4	Control Ass'y.	T140073
5	Swivel Elbow	T140074
6	Filter / Muffler	T140075
7	3/8" tubing (40ft roll)	FA2230-15



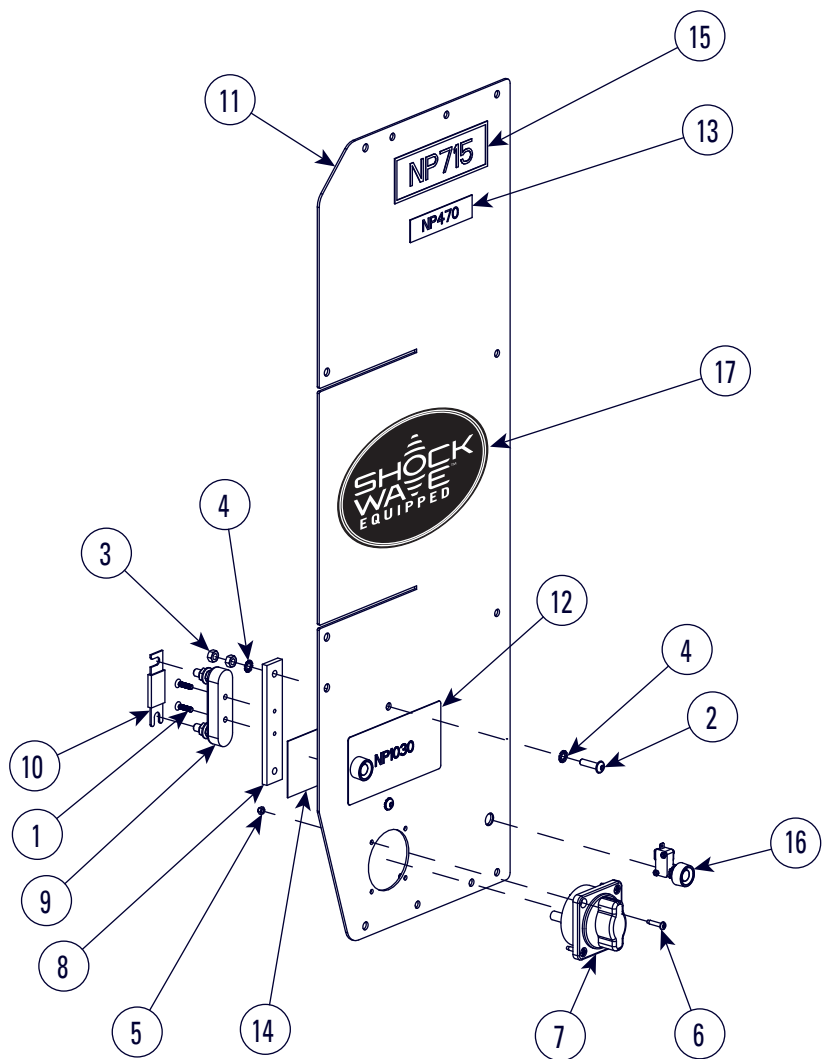


SMART LIFT DC CONTROL MOUNTING		
ITEM	PART NO.	DESCRIPTION
1	40007	#8-32NC x 1-1/2" SLOTTED RHMS
2	40094	1/4"-20NC x 1/2" Lg FLGD HEX SOC BHCS
3	40217	5/16" USS FLAT WASHER, PLTD
4	40221	5/16"-18NC x 1" Lg HHCS, GRD5 PLTD
5	40641	1/4"-20NC HEX FLGD WZLOCK NUT, PLTD
6	40649	#8-32NC HEX NYLON INSERT LOCKNUT
7	40678	5/16"-18NC HEX FLGD WZLOCK NUT, PLTD
8	40788	#8 SAE FLAT WASHER
9	FA9133	4-POST CONTROL ASSEMBLY
10	S121294	SL BATTERY CABINET MOUNTING BRACKET

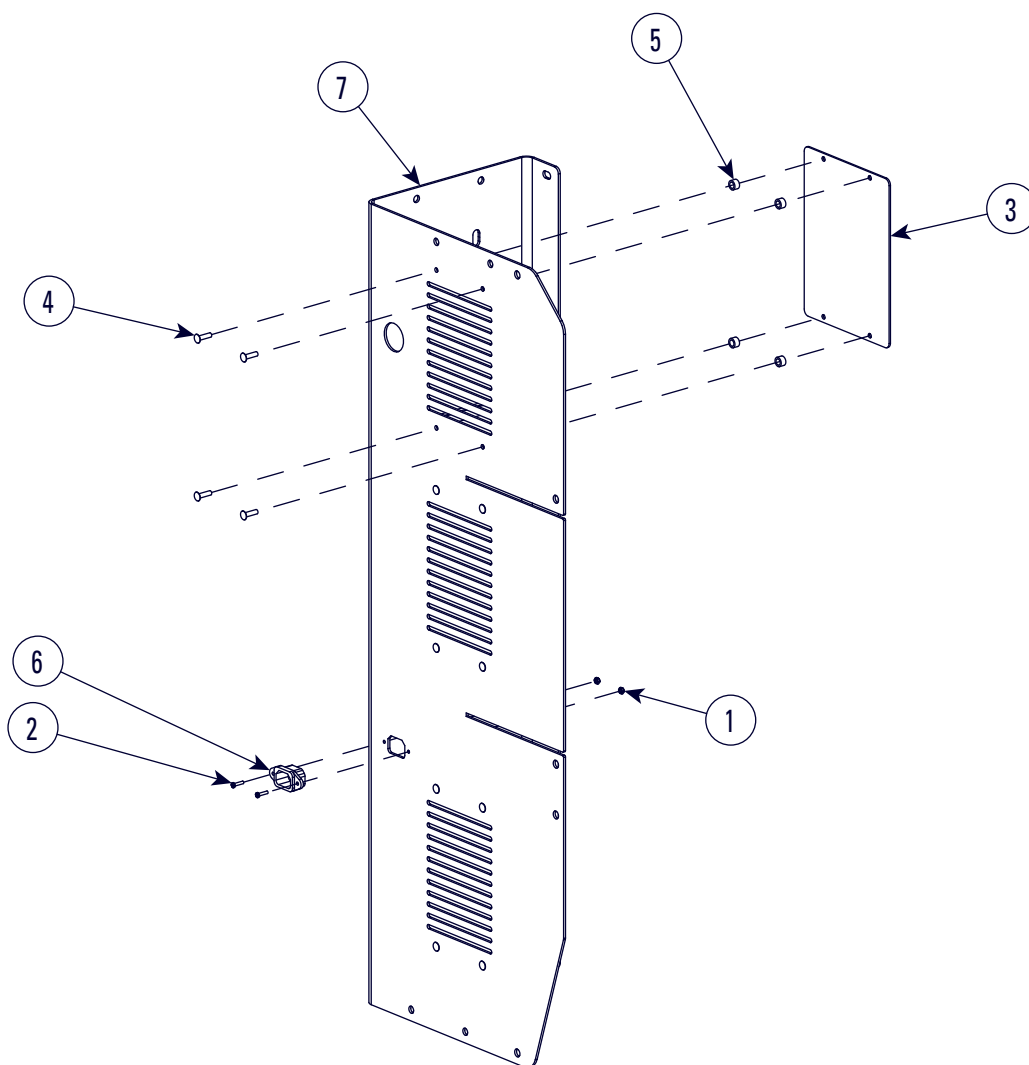
11	FA986-8	BATTERY CABINET BOTTOM COVER
12	FC5209	5/16 PUSHNUT PALNUT #PV312015
13a	P3578	DC POWER UNIT - ARM LIFT
13b	P3581	DC POWER UNIT - PAD LIFT
13c	P3579	DC POWER UNIT - SL212
14	T130635	AIR VALVE BRACKET (DC)
15	T140073	AIR LOCK VALVE
16	T140074	ELBOW
17	T140075	BRASS FILTER
18	T140119	AIR LOCK VALVE HANDLE
19	FA966-51	10FT UNIVERSAL POWER CORD (NEMA 5-15P TO IEC320C13)



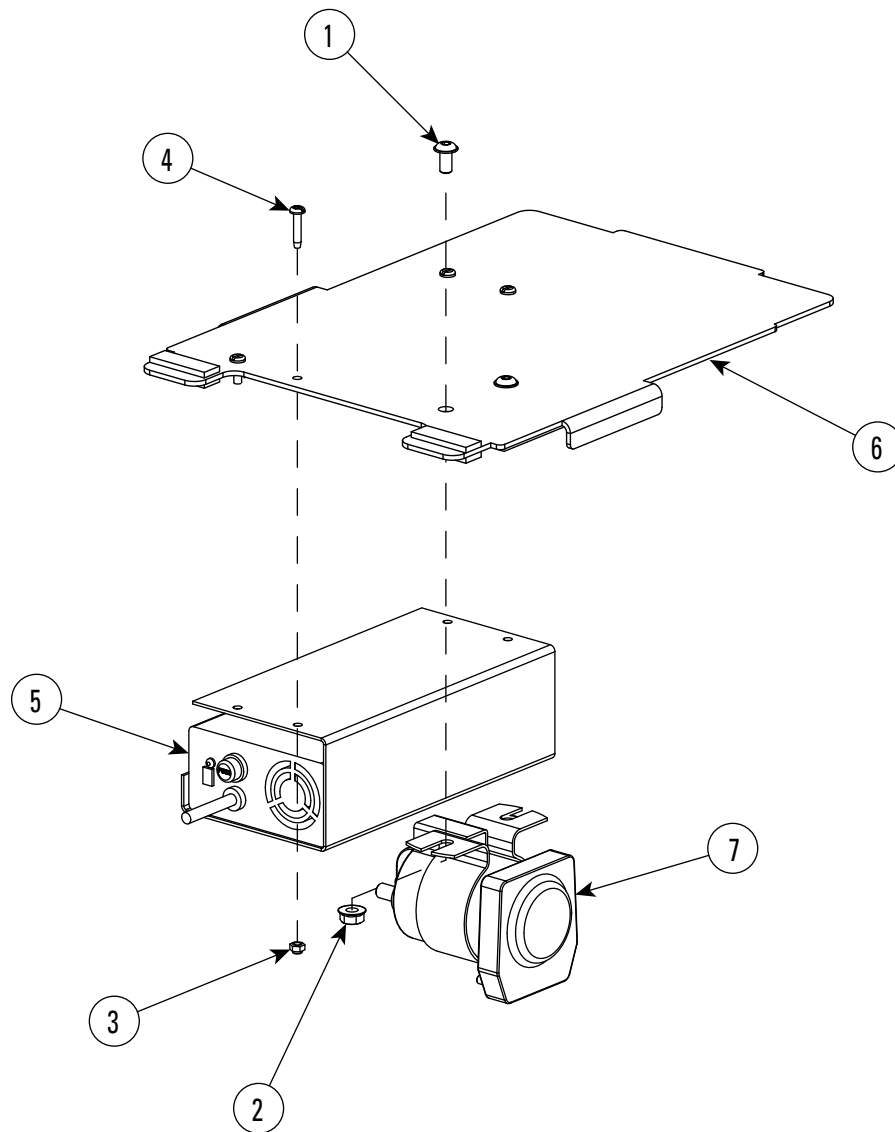
ITEM	PART NO.	DESCRIPTION	ITEM	PART NO.	DESCRIPTION
1	40077	1/4"-20NC x 1" Lg FLGD HEX SOC BHCS, GRD2	12	FA966-48	BATTERY CABINET LOWER SHELF ASSEMBLY
2	40641	1/4"-20NC HEX FLGD WZLOCK NUT, PLTD	13	FA966-50	BATTERY CABINET FRONT TOP COVER ASSY
3	40779	1/4" EXT TOOTH LW	14	FA966-58	BATTERY CABINET SHELF WELD
4	FA7618	DISCONNECT-FUSE CABLE	15	FA970	CONTACTOR HARNESS
5	FA7619	FUSE-CONTACTOR CABLE	16	FA978	DISCONNECT HARNESS
6	FA7667	BATTERY-DISCONNECT CABLE	17	FA982	GROUND WIRE
7	FA966-16	BATTERY TRAY	18	FA986-1	BATTERY CABINET RH FRAME ASSEMBLY
8	FA966-22	CLIP-ON NUT	19	FA986-2	SL BATTERY CABINET LH FRAME SUB-ASSY
9	FA966-34	1-1/4" HOLE PLUG	20	FA986-4	SL BATTERY CABINET BOTTOM COVER WELDMENT
10	FA966-39	BATTERY CABINET TOP COVER WELDMENT	21	FA986-11	SMART LIFT DISCONNECT HARNESS
11	FA966-45	BATTERY CABINET FRONT BOTTOM COVER	22	FA966-60	TRANSPARENT HOLE PLUG



SMART LIFT RIGHT HAND FRAME ASSEMBLY		
ITEM	PART NO.	DESCRIPTION
1	40004	#10-24 x 5/8 PFHMS, McMASTWR-CARR # 90471A315 or EQUAL
2	40077	1/4"-20NC x 1" Lg FLGD HEX SOC BHCS, GRD2
3	40627	1/4"-20NC HEX NUT, PLTD
4	40779	1/4" EXT TOOTH LW
5	450957	#8-32NC NYLON LOCKNUT
6	40022	#8-32NC x 1/2" Lg PHMS
7	FA7958-4	DC DISCONNECT SWITCH
8	FA966-8	FUSE HOLDER MOUNTING BRACKET
9	FA975	FUSE HOLDER
10	FA975-1	350 AMP FUSE
11	FA986-10	BATTERY CABINET RH FRAME
12	NP1030	PUSHBUTTON NAMEPLATE
13	NP470	MOTOR LOCATION WARNING LABEL
14	NP692	NAMEPLATE
	NP1066	NAMEPLATE
15	NP715	NAMEPLATE
16	P1483	LIMIT SWITCH ASSEMBLY
17	NP1067	SHOCKWAVE DECAL



SMART LIFT LEFT HAND FRAME ASSEMBLY		
ITEM	PART NO.	DESCRIPTION
1	41628	#4-40 NYLON INSERT LOCKNUT MMC #90633A005
2	796443	#4-40 x 1/2 Lg. PHMS, PLTD
3	FA966-17	SPLASH SHIELD
4	FA966-18	DOMED HEAD RIVET
5	FA966-21	SPACER
6	FA983	CHARGER INTERNAL POWER CORD
7	FA986-9	SL BATTERY CABINET LH FRAME

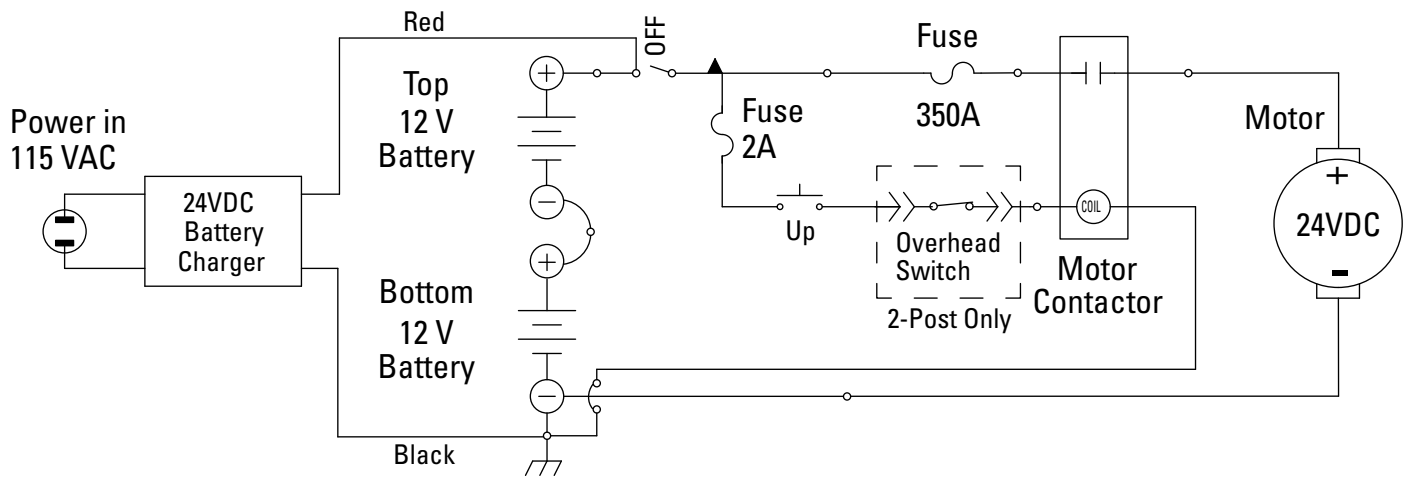


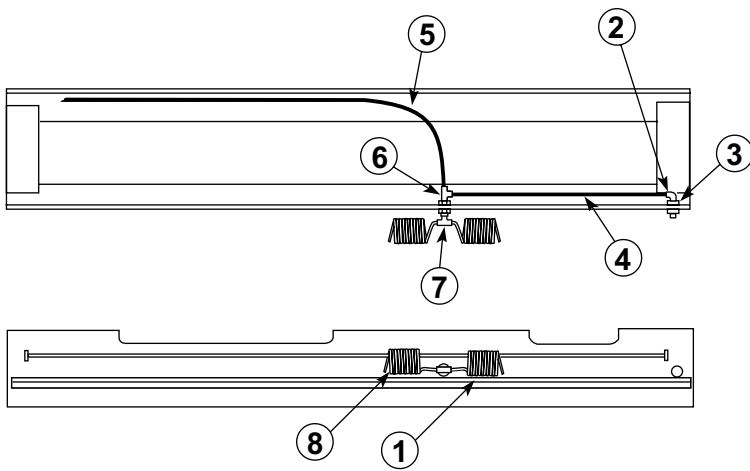
LOWER SHELF ASSEMBLY		
ITEM	PART NO.	DESCRIPTION
1	40094	1/4"-20NC x 1/2" Lg FLGD HEX SOC BHCS
2	40641	1/4"-20NC HEX FLGD WZLOCK NUT, PLTD
3	450957	#8-32NC NYLON LOCK NUT
4	40022	#8-32NC x 1/2" LG. PHMS
5	FA966-62	24V 5A CHARGER ASSEMBLY
6	FA966-58	BATTERY CABINET SHELF WELD
7	FA976	DC CONTACTOR

DC Trouble Shooting

Trouble	Cause	Remedy
Lift stops short of full rise or slow raise speed.	1. Low oil level. 2. Air in hydraulic lines/cylinders 3. Batteries not being charged 4. Batteries worn out 5. Charger failure	1. Fill tank to MIN_mark with ISO AW 32 hydraulic oil or Dextron III ATF 2. 2-Post: Start unit, raise lift about 2ft. Open cylinder bleeders 2 turns. Close bleeders when fluid streams. Lower lift and fill tank. 3. Ensure that 110 volt power source is reaching control. 4. Replace batteries 5. Replace fuse / Replace charger
Motor doesn't run.	1. Disconnect switched "OFF" 2. Check overhead switch burned out 3. 350 Amp fuse blown 4. 2 Amp fuse blown 5. Loose wire 6. Batteries not being charged 7. Batteries worn out 8. Charger failure	1. Turn disconnect to "ON" position 2. Replace switch 3. Replace fuse 4. Replace fuse 5. Make sure wired properly 6. Ensure 110 Volt power source is reaching control (all plugs attached) 7. Replace batteries 8. Replace fuse / Replace charger

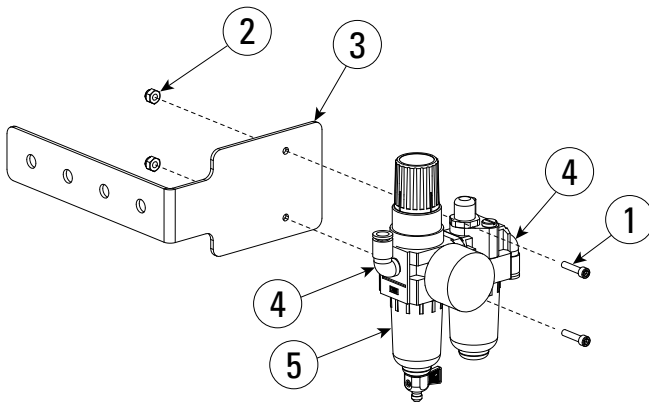
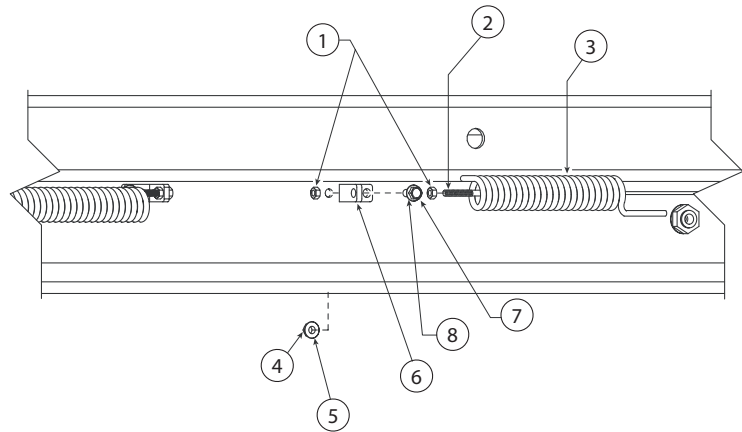
WIRING DIAGRAM



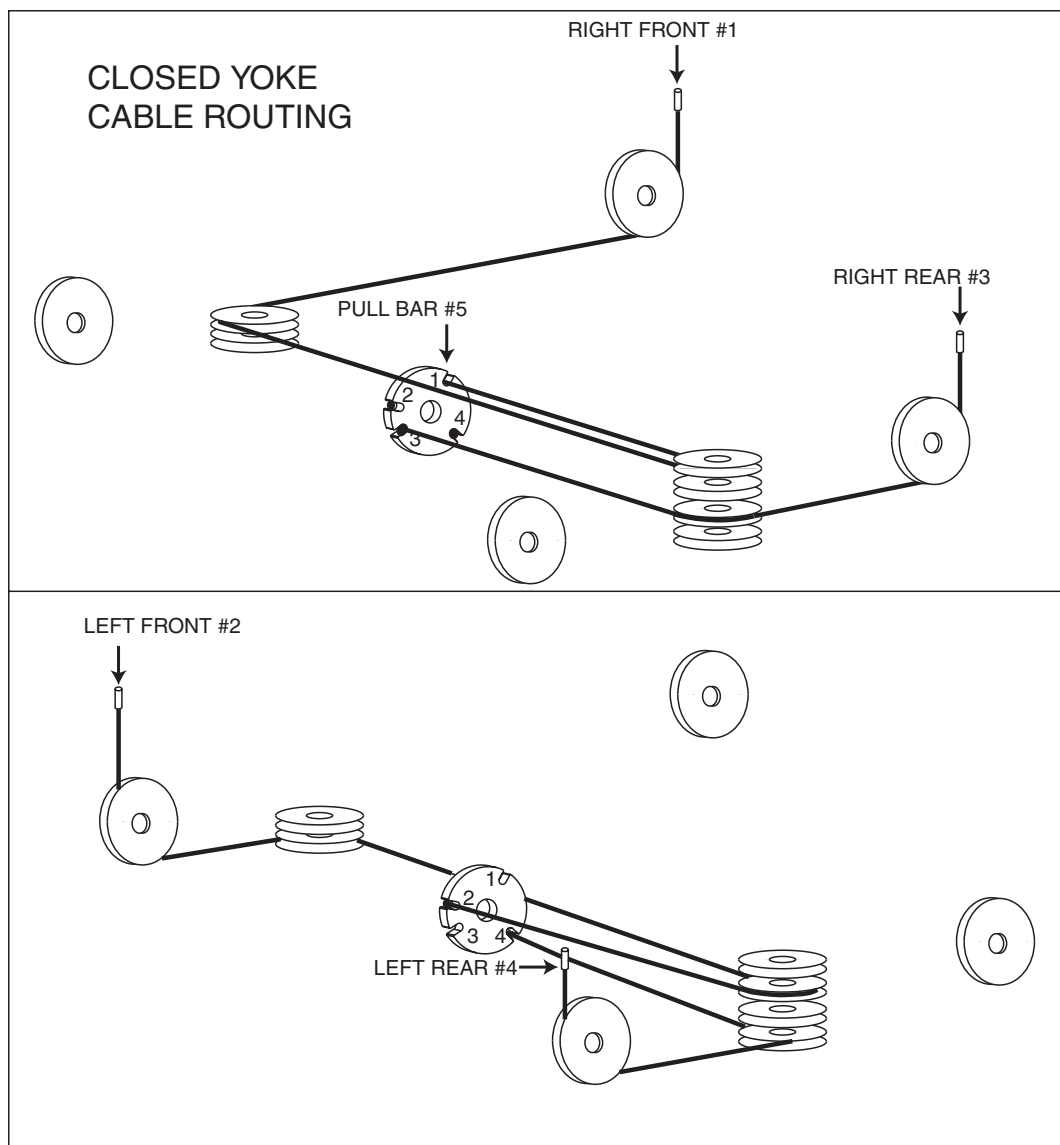


INTERNAL AIRLINE PARTS			
ITEM NO.	DESCRIPTION	PART NO.	PART NO.
		SHORT	L, EL MODEL
1	Front Recoil Hose	FC147-14	FC147-14
2	Male Elbow	FC147-7	FC147-7
3	Female Bulkhead	FC147-1	FC147-1
4	Runway Tubing	FC147-6	FC147-6
5	Tubing	FC5313-2	FC5313-2
6	Male Run Tee	FC147-3	FC147-3
7	Male Branch Tee	FC147-5	FC147-5
8	Rear Recoil Hose	FC147-14	S130160

Retainer Cable Detail			
ITEM NO.	DESCRIPTION	PART NO.	PART NO.
		SHORT	L, EL MODELS
1	1/4" x 20NC Hex Nut	40625	40625
2	Rear Airline Retainer Cable	XS130063	S130159
	Front Airline Retainer Cable	XS130063	XS130063
3	Recoil Hose	-	-
4	3/8" Nut	40660	40660
5	3/8" Lockwasher	40845	40845
6	Retainer Bracket	FC147-9	FC147-9
7	3/8"-16NC x 3/4" Lg. HHCS	40130	40130
8	3/8" Flat Washer	40820	40820

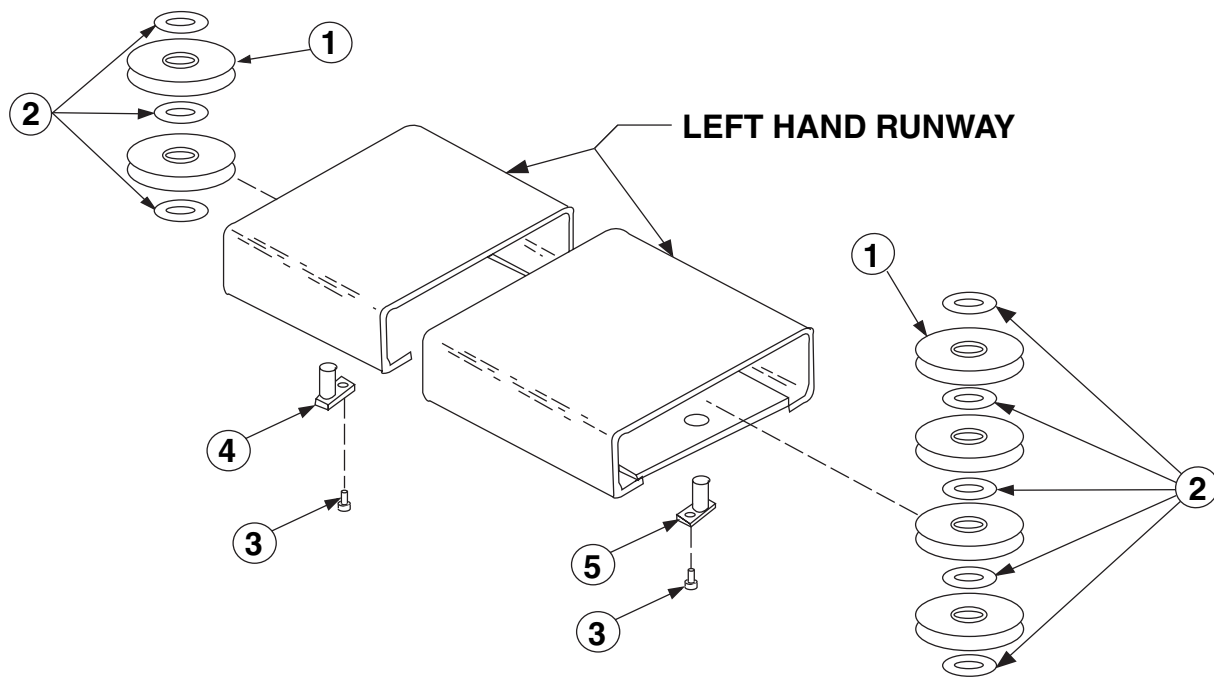


FRL DETAIL		
ITEM NO.	DESCRIPTION	PART NO.
1	#10-24 x 3/4" Hex SHCS	AP00027
2	#10-24 Nylon Lock Nut	40811
3	Adapter Bracket	S121338
4	Elbow	FC147-7
5	Filter/Regulator/Lubricator	S130080



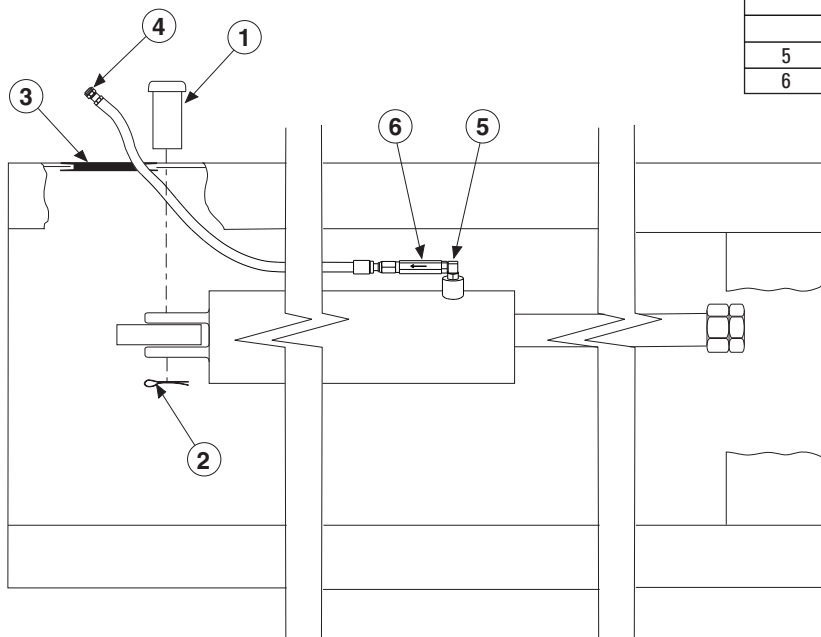
CABLES		PART NO.					
ITEM NO.	DESCRIPTION	SM/AR14			SM/AR14NB		
		158 1/2"	182"/192"	212"	158 1/2"	182"/192"	212"
1	Right Front Cable AR Series	S130174	S130170	S130166	S130188	S130184	S130180
	Right Front Cable SM Series	S130174	S130197	S130195	S130188	S130201	S130199
2	Left Front Cable AR Series	S130173	S130169	S130165	S130187	S130183	S130179
	Left Front Cable SM Series	S130173	S130196	S130194	S130187	S130200	S130198
3	Right Rear Cable	S130164	S130164	S130164	S130178	S130178	S130178
4	Left Rear Cable	S130163	S130163	S130163	S130177	S130177	S130177
5	Pull Bar	S120706	S120706	S120706	S120706	S120706	S120706

* CABLE RETAINER NOT SHOWN TO CLAIRIFY ILLUSTRATION OF CABLE ROUTING



SHEAVE DETAIL		
ITEM NO.	DESCRIPTION	PART NO.
1	Sheave	FC5810-10
2	Plastic Bearing	FC5225-17
3	5/16"-18NC HHCS x 3/4" Lg.	40401
4	Front Sheave Pin (Standard)	FC555-1
	Front Sheave Pin (Chrome)	FC5728-7
5	Rear Sheave Pin (Standard)	S120675
	Rear Sheave Pin (Chrome)	S120676

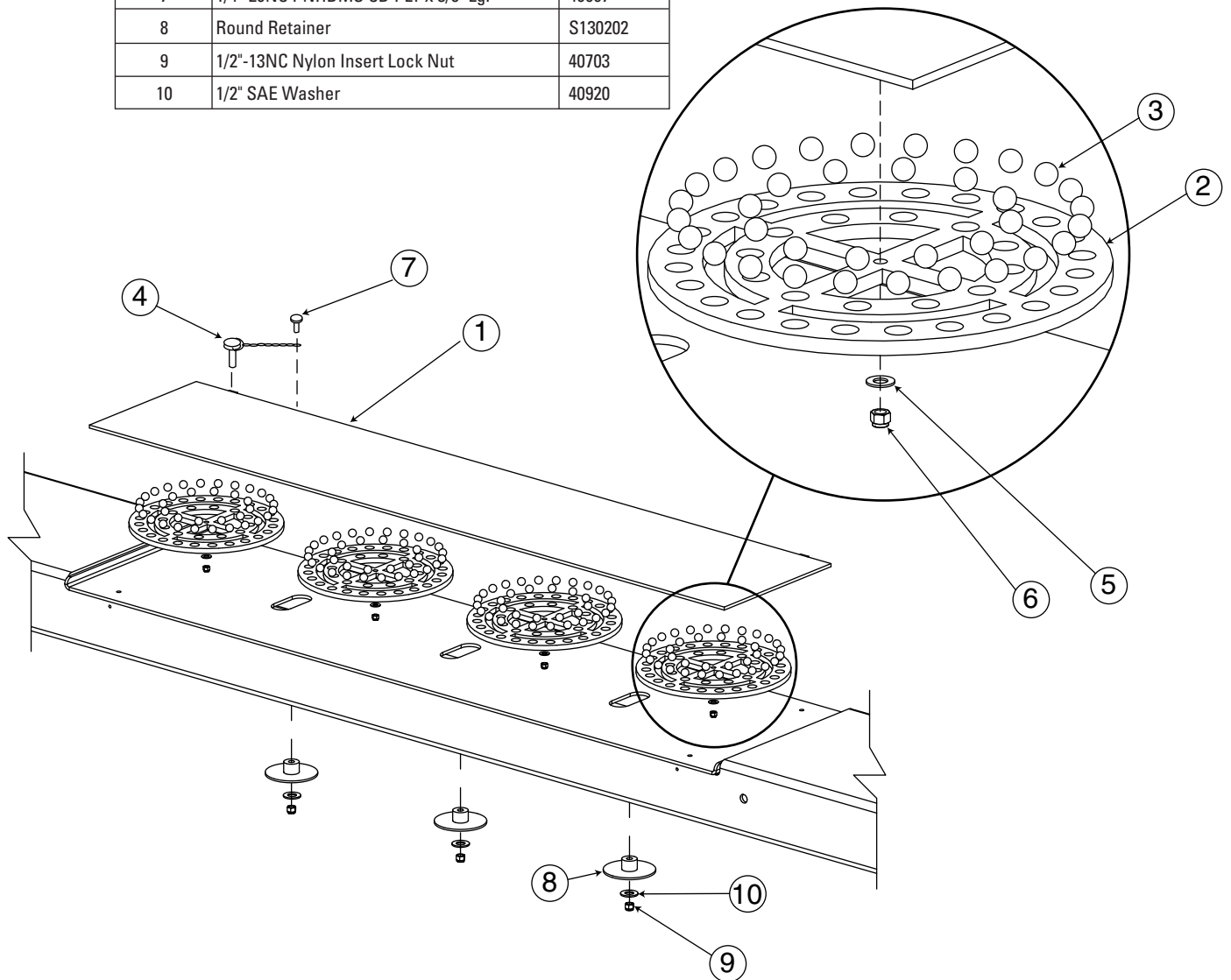
HYDRAULIC HOSE DETAIL			
ITEM NO.	DESCRIPTION	SM14	AR14
1	Clevis Pin	FC5346-1	S130158
2	3/16" x 1-1/4" Lg. Cotter Pin	41247	41247
3	Grommet	2 1/2" Hole	S130015
		1 1/2" Hole	S130063
4	Hose		
	"S" Model	S130331	S130331
	"L" Model	S130335	S130332
	"EL2" Model	S130336	S130333
5	Elbow	Z140035	Z140035
6	Flow Control	S130334	S130334



4 WS SLIP PLATE PARTS		
ITEM NO.	DESCRIPTION	PART NO.
1	Slip Plate Weldment	S120775
2	Ball Retainer Assembly	FC5190-31
3	Ball	FC5190-7
4	Lock Pin Assembly	FC5283
5	3/8" SAE Washer	40805
6	3/8"-16NC Nylon Insert Jam Nut	40657
7	1/4"-20NC PNHDMs CD PLT x 3/8" Lg.	40067
8	Round Retainer	S130202
9	1/2"-13NC Nylon Insert Lock Nut	40703
10	1/2" SAE Washer	40920

Slip Plate Rebuild Kit S100084

Includes: (4) Ball Retainer Assembly FC5190-31
 (144) Balls, FC5190-7
 (4) 3/8" SAE Washer
 (4) 3/8"-16 Nylon Insert Jam Nut
 (3) Round Retainer
 (3) 1/2"-13 Nylon Insert Lock Nut
 (3) 1/2" SAE Washer



NOTES

NOTES

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