



ADVANTAGE

LIFT SYSTEMS

ATTENTION!!!
READ ALL MANUALS THOROUGHLY
BEFORE
INSTALLING,
OPERATING,
OR MAINTAINING THE LIFT

MODEL 36/28-F Generation 3 Flush Mount

SPARE PARTS MANUAL

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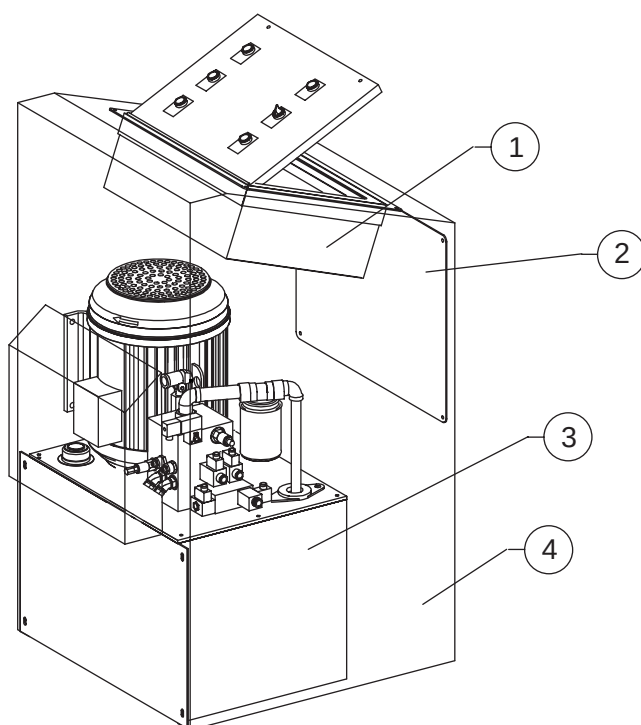
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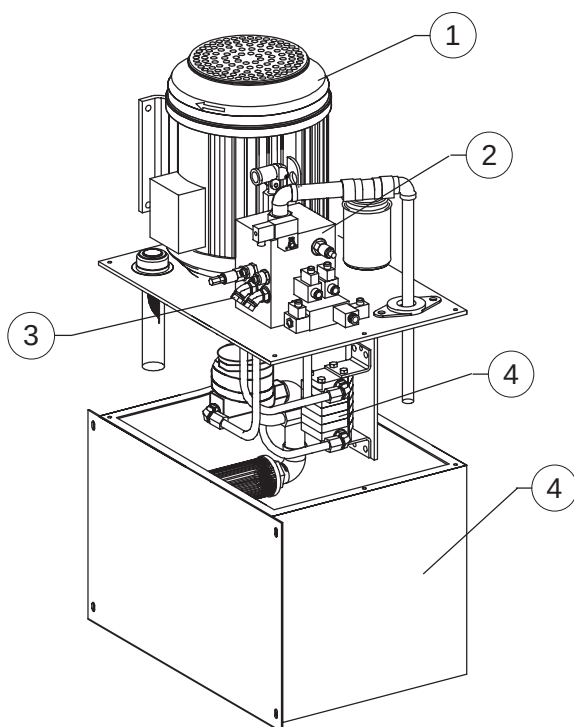
PB29-4-1

CONTROL PANEL GENERAL ASSEMBLY



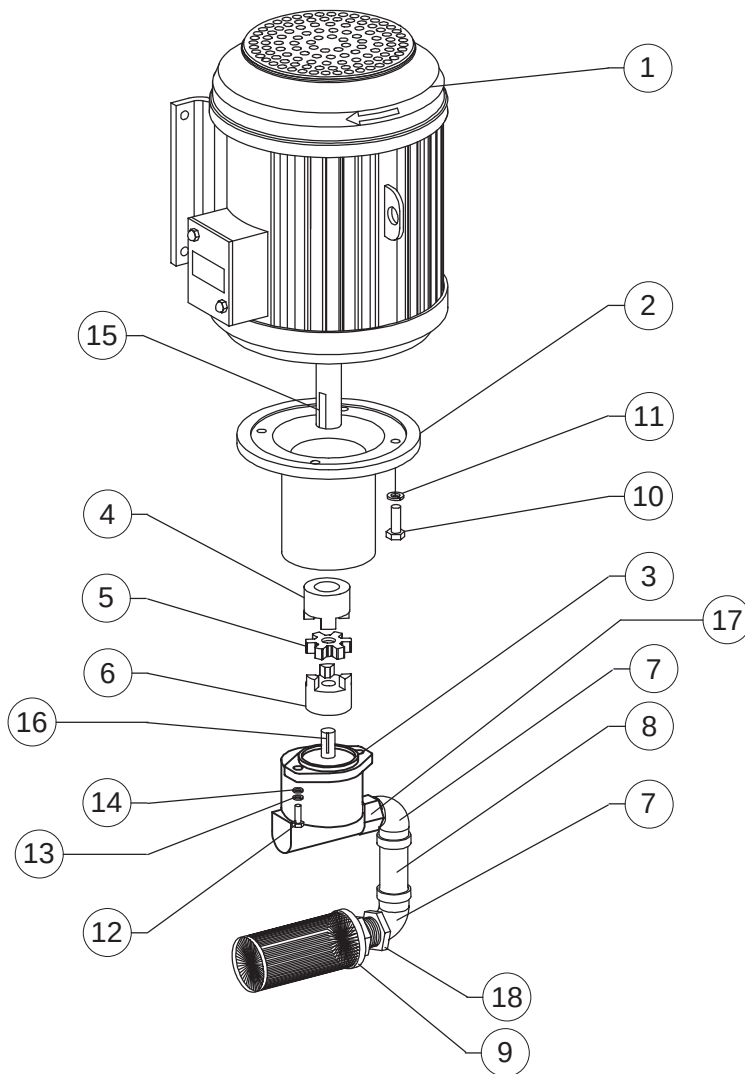
1. UPPER ELECTRICAL ASSEMBLY
2. LOWER CONTROL PANEL COVER
3. POWER UNIT
4. CONTROL PANEL SHELL

POWER UNIT GENERAL ASSEMBLY



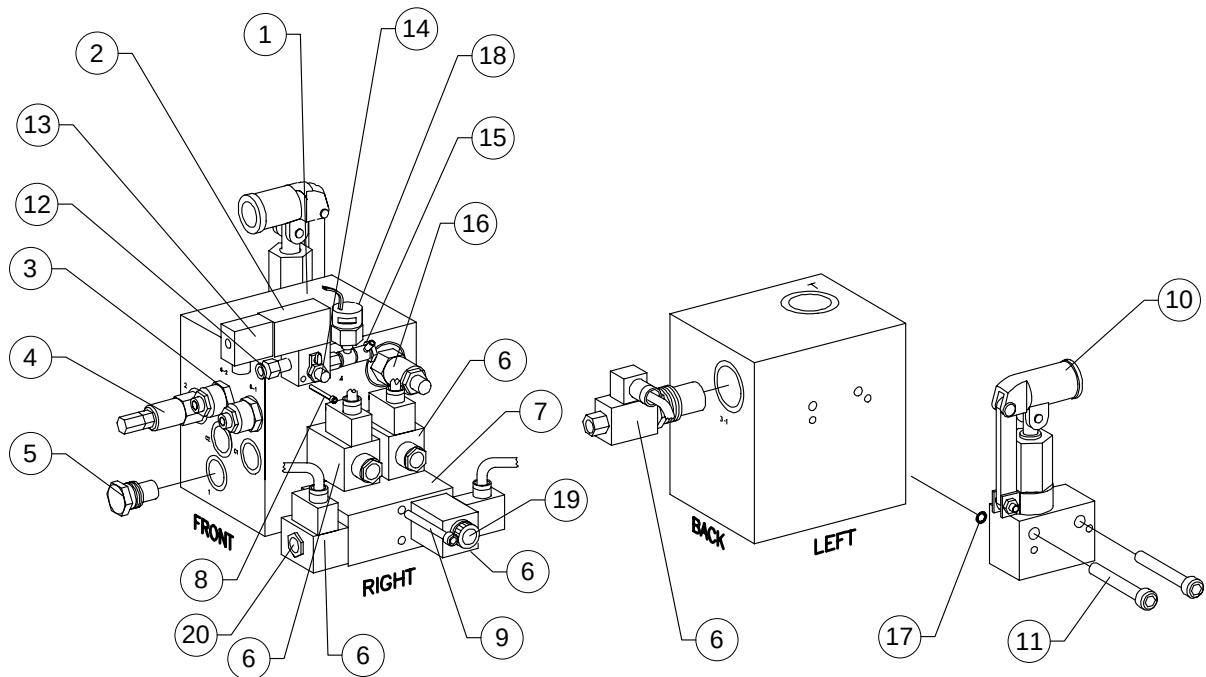
1. MOTOR/PUMP ASSEMBLY
2. MANIFOLD ASSEMBLY
3. HYDRAULIC TUBING AND HOSE ASSEMBLY
4. TANK AND FLOW DIVIDER ASSEMBLY

MOTOR/PUMP ASSEMBLY



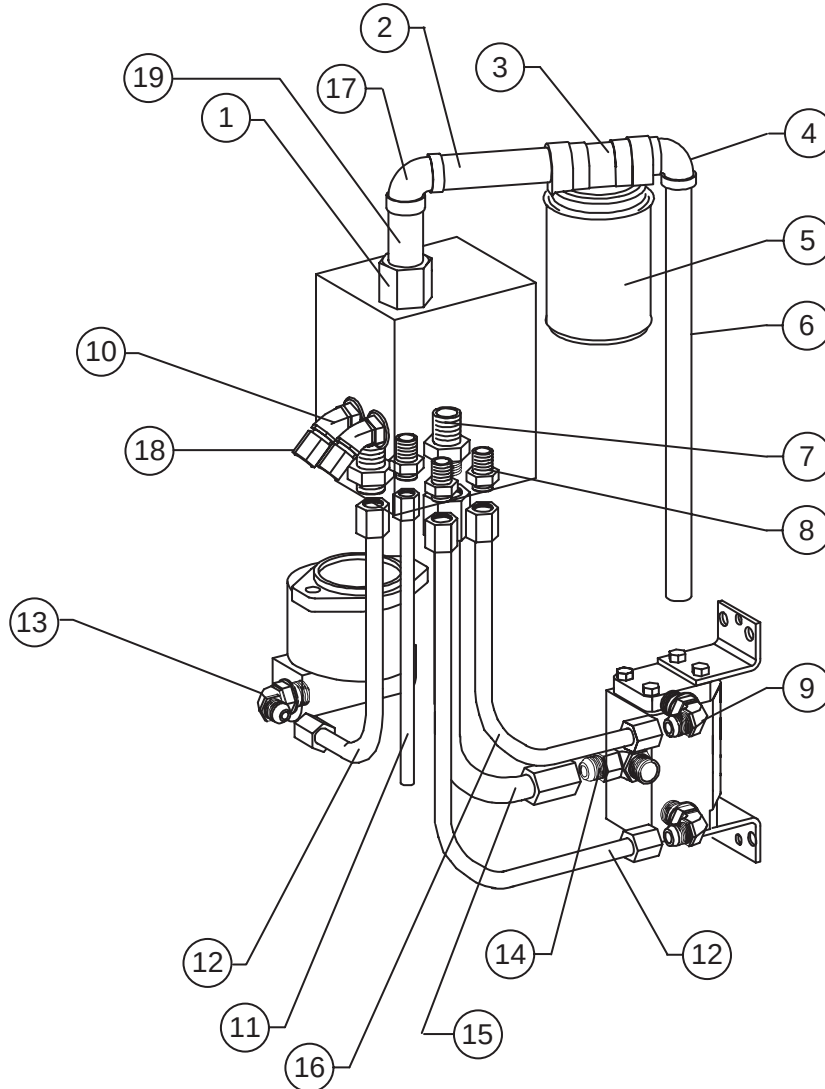
ITEM NO.	QTY	UM	P/N	DESCRIPTION
1	1	ea	AP00332	15HP 3PH-60Hz-208V 1800 RPM MOTOR
1	1	ea	AP00203	15HP 3PH-60Hz-230V 1800 RPM MOTOR
1	1	ea	AP00203	15HP 3PH-60Hz-460V 1800 RPM MOTOR
2	1	ea	AP00220	BELL HOUSING
3	1	ea	AP00986	GEAR PUMP 8.28 GPM
4	1	ea	AP00228	MOTOR COUPLING
5	1	ea	AP00067	COUPLING SOX
6	1	ea	AP00227	PUMP COUPLING
7	2	ea	AP00301	3/4" BLACK STREET 90
8	1	ea	AP00050	BLACK NIPPLE 3/4" x 3"
9	1	ea	AP00698	SUCTION STRAINER
10	4	ea	AP00020	SCREW SHCS, 1/2"-13x1-1/2" GR.5
11	4	ea	AP00018	LOCKWASHER 1/2"
12	2	ea	AP00032	BOLT HHCS GR.5, 3/8"-16x1"
13	2	ea	AP00030	LOCKWASHER 3/8"
14	2	ea	AP00029	FLATWASHER 3/8"
15	1	ea	AP00353	MOTOR DRIVE KEY
16	1	ea	AP00354	PUMP DRIVE KEY
17	4	ea	AP00151	STRAIGHT THREAD ADAPTOR 12-3/4-F50G-S
18	1	ea	AP00819	BUSHING- 1"-3/4" BLACK NPT

MANIFOLD ASSEMBLY



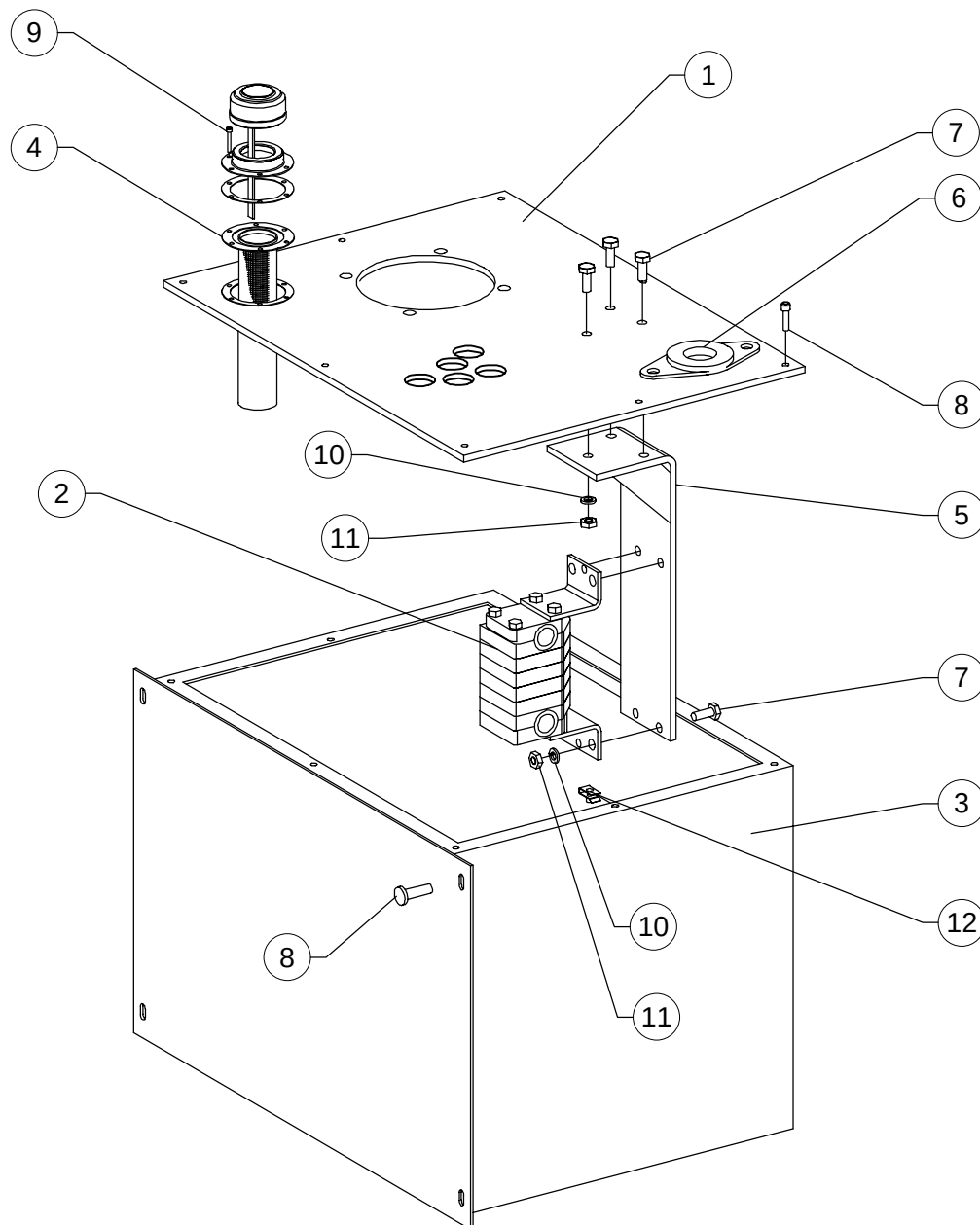
ITEM NO.	QTY	UM	P/N	DESCRIPTION
1	1	ea	AP00798	MANIFOLD REVISION 1
2	1	ea	AP00122	AIR VALVE
3	2	ea	AP00129	NEEDLE VALVE
4	1	ea	AP00803	RELIEF VALVE
5	1	ea	AP00654	CHECK VALVE
6	5	ea	AP01293	SOLENOID VALVE
7	1	ea	AP01236	MANIFOLD - PROPORTIONAL VALVE
8	2	ea	AP01224	SCREW SHCS GR.8 10-24 x 1-1/2"
9	4	ea	AP01312	SCREW SHCS GR.8 10-24 x 2-1/2"
10	1	ea	AP00172	HAND PUMP
11	2	ea	AP00042	SCREW SHCS 5/16"-18 x 2"
12	1	ea	AP00433	MALE AIR CONNECTOR
13	1	ea	AP01302	CONNECTOR - AIR VALVE ELECTRICAL
14	1	ea	AP00167	MUFFLER
15	1	ea	AP01311	AIR MANIFOLD ASSEMBLY
16	1	ea	AP00355	PRESSURE COMPENSATED FLOW CONTROL
17	1	ea	AP00615	O-RING 1/4" I.D. x 7/16" O.D. x 0.10 SECTION
18	1	ea	AP01239	SWITCH - AIR VALVE
19	1	ea	AP01233	CARTRIDGE - PROPORTIONAL VALVE
20	1	ea	AP01235	VALVE - 3-WAY

HYDRAULIC TUBING ASSEMBLIES



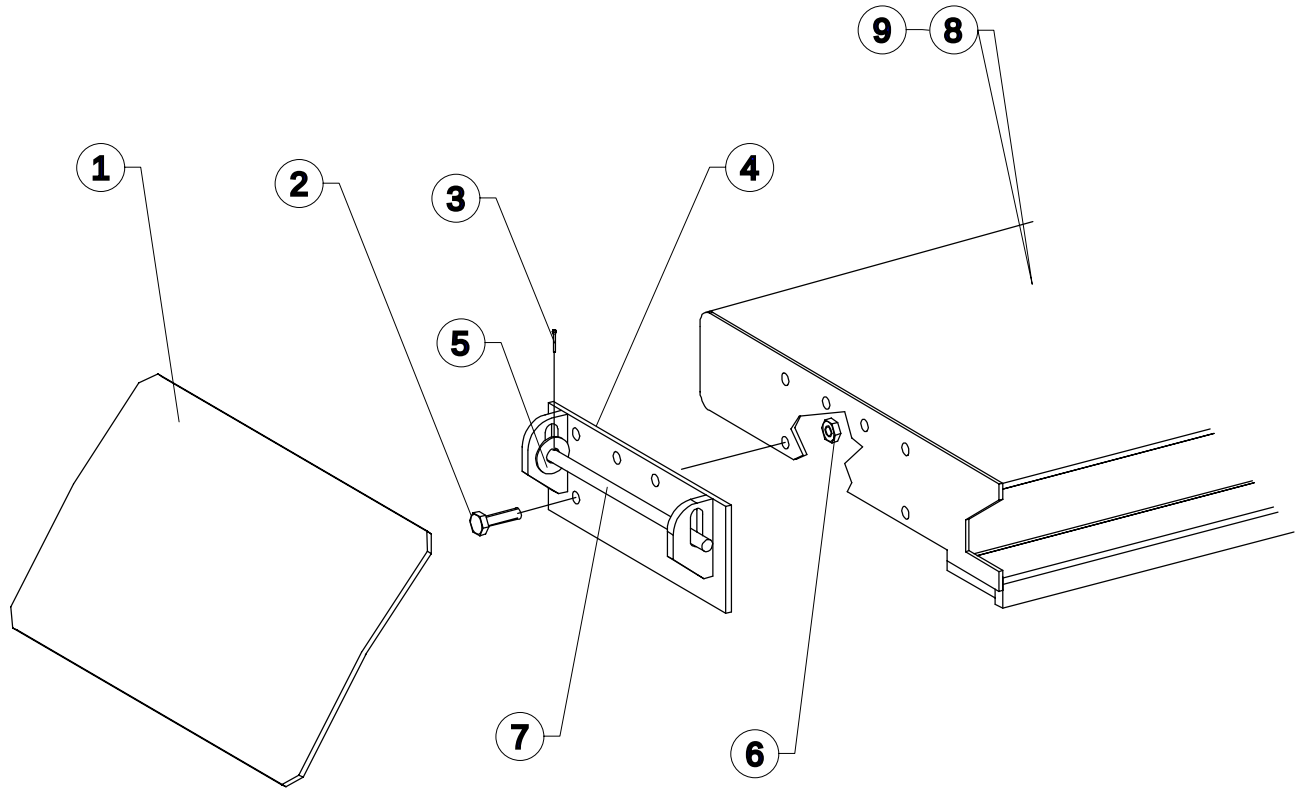
ITEM NO.	QTY	UM	P/N	DESCRIPTION
1	1	ea	AP00151	STRAIGHT THREAD ADAPTOR, 12-3/4 F50G-S
2	1	ea	AP00713	BLACK NIPPLE 3/4" x 7"
3	1	ea	AP00152	RETURN FILTER INLET W/ FILTER ELEMENT
4	1	ea	AP00301	BLACK STREET 90 3/4"
5	1	ea	AP00341	FILTER REPLACEMENT ELEMENT
6	1	ea	AP00710	BLACK NIPPLE 3/4"X25"
7	2	ea	AP00113	STRAIGHT THREAD CONNECTOR, 10F50X-S
8	3	ea	AP00155	STRAIGHT THREAD CONNECTOR, 8F50X-S
9	2	ea	AP00154	STRAIGHT THREAD ELBOW 90°, 8C50X-S
10	2	ea	AP00676	STRAIGHT THREAD ELBOW 45°, 8V50X-S
11	1	ea	AP00839	STAINLESS STEEL TUBE ASSEMBLY , T1 TO TANK
12	2	ea	AP00840	HOSE ASSEMBLY, P1 TO PUMP
13	1	ea	AP00115	STRAIGHT THREAD ELBOW 90°, 10-12C50X-S
14	1	ea	AP00688	STRAIGHT THREAD ELBOW 90°, 10C50X-S
15	1	ea	AP00837	HOSE ASSEMBLY SST23, FD TO FD1
16	1	ea	AP00835	HOSE ASSEMBLY SST24, FD TO FD3
17	1	ea	AP00717	BLACK ELBOW 90° x 3/4"
18	2	ea	AP00158	PLUG, 8-PNTX-S
19	1	ea	AP00050	NIPPLE - BLACK 3/4" x 3"

TANK/FLOW DIVIDER ASSEMBLY



ITEM NO.	QTY	UM	P/N	DESCRIPTION
1	1	ea	AP00964	MOTOR MOUNTING PLATE, REV. 1 MANIFOLD
2	1	ea	AP00219	FLOW DIVIDER
3	1	ea	AP00344	HYDRAULIC RESERVOIR
4	1	ea	AP00162	FILLER BREATHER ASSEMBLY
5	1	ea	AP00989	FLOW DIVIDER MOUNTING BRACKET, REV. 1 MANIFOLD
6	1	ea	AP00804	RETURN LINE FLANGE
7	7	ea	AP00032	BOLT, HHCS, 3/8"-16 x 1", GRADE 5, PLATED
8	12	ea	AP00234	SCREW, BHCS, BLACK, 1/4"-20X3/4"
9	6	ea	AP00027	SCREW SHCS 10-24X3/4"
10	7	ea	AP00030	LOCKWASHER, SPLIT, 3/8"
11	7	ea	AP00031	NUT, 3/8"-16, GRADE 5, PLATED
12	8	ea	AP00345	J" NUT 1/4x20

TRANSITION PLATE ASSEMBLY

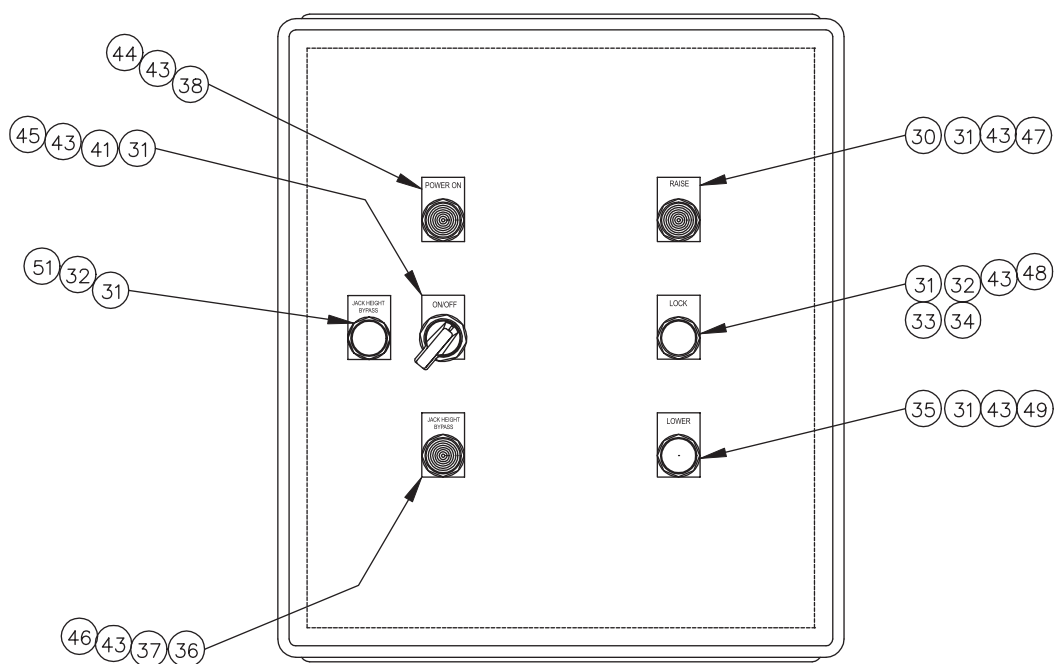
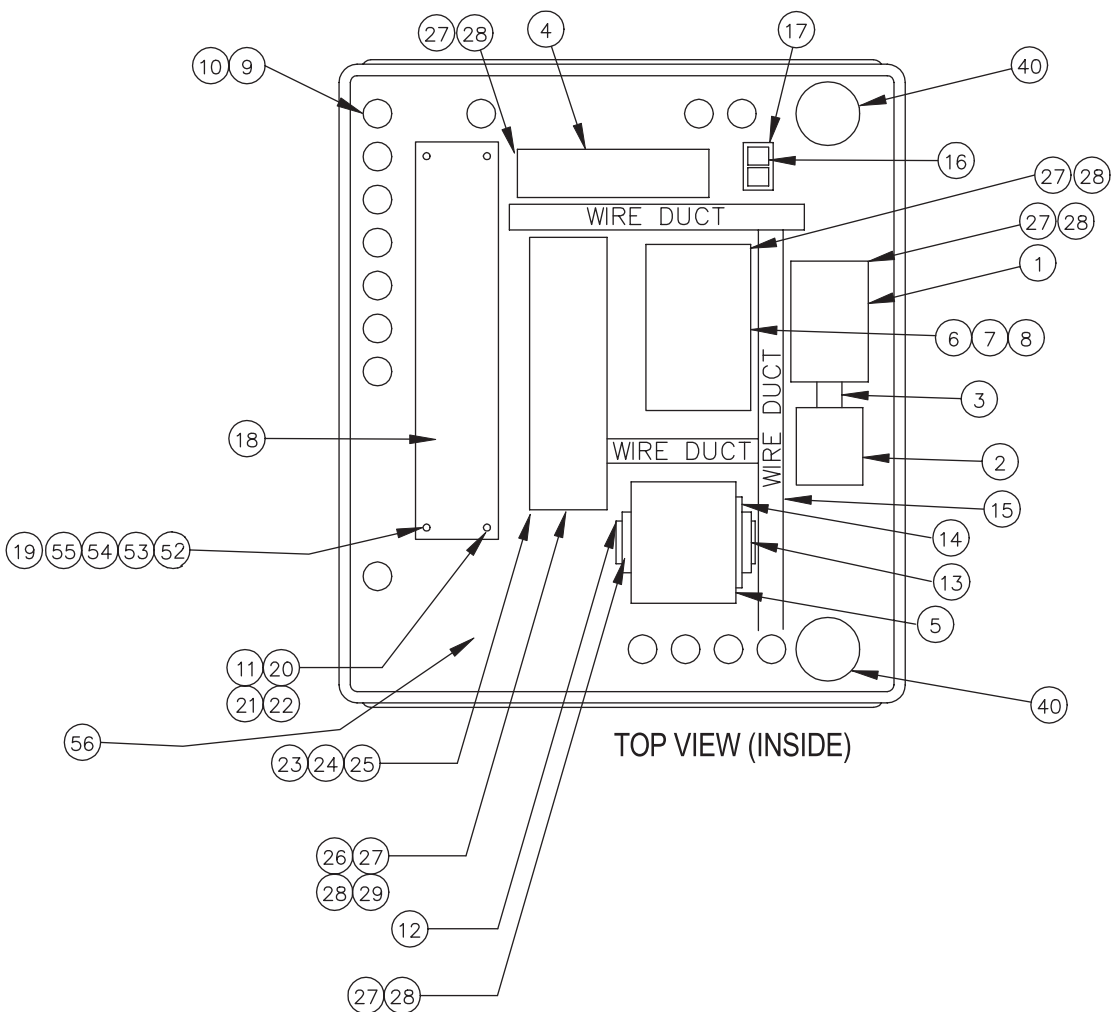


ITEM NO.	QTY	UM	P/N	DESCRIPTION
1	1	ea	AP02644	TRANSITION PLATE - FLUSH
2	6	ea	AP00020	1/2" -13 X 1 1/2 HHCS BOLT
3	2	ea	AP00744	COTTER PIN 1/8 X 1 1/4"
4	1	ea	AP01318	TRANSITION PLATE MOUNTING BRACKET
5	2	ea	AP00777	FLAT WASHER 3/4"
6	6	ea	AP00019	1/2" - 13 NUT
7	1	ea	AP01319	TRANSITION PLATE MOUNTING BRACKET SHAFT
8	1	ea	AP02651	RIGHT PLATFORM MEMBER
9	1	ea	AP02652	LEFT PLATFORM MEMBER

MASTER PANEL TABLE

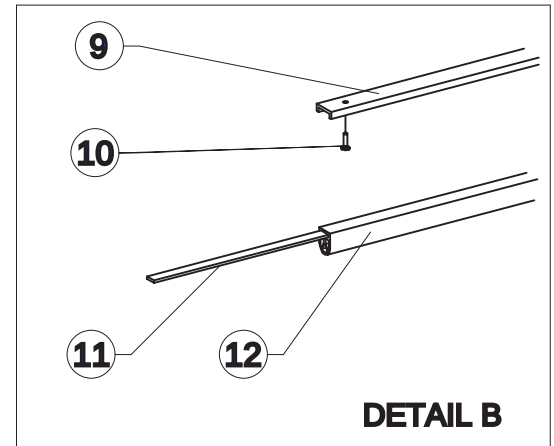
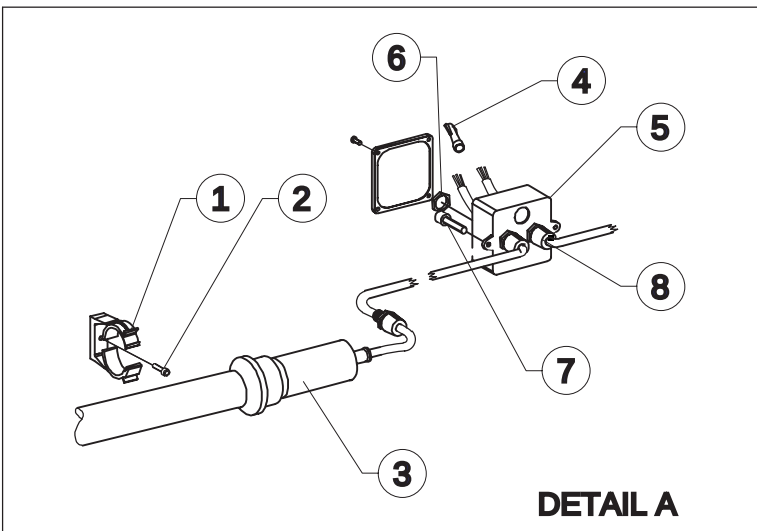
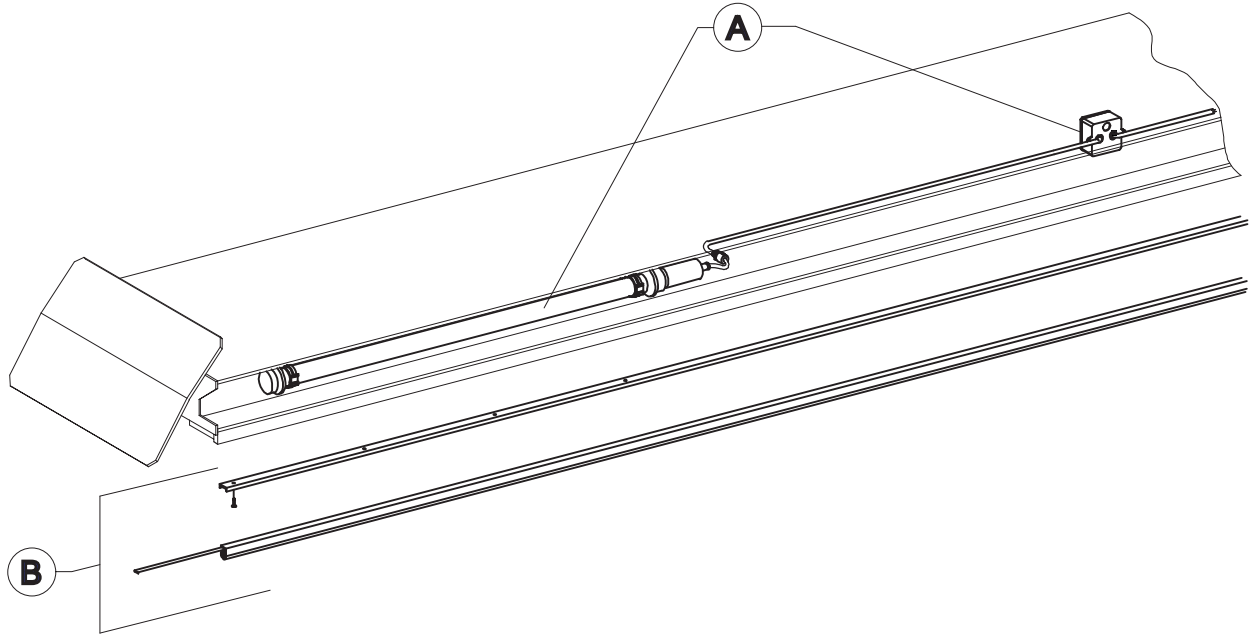
ITEM #	QTY.	DESCRIPTION	ROTARY #
1	1	THREE PHASE MOTOR CONTACTOR AC3 65 AMPS.	AC700005
2	1	THERMAL OVERLOAD RELAY ADJUSTMENT RANGE 14-23 AMPS.	AC700006
	1	THERMAL OVERLOAD RELAY ADJUSTMENT RANGE 20-33 AMPS.	AC700007
	1	THERMAL OVERLOAD RELAY ADJUSTMENT RANGE 35-50 AMPS.	AC700008
	1	THERMAL OVERLOAD RELAY ADJUSTMENT RANGE 45-65 AMPS.	AC700009
	1	THERMAL OVERLOAD RELAY ADJUSTMENT RANGE 9-15 AMPS.	AC700039
3	1	MOUNTING BRACKET, THERMAL OVERLOAD TO CONTACTOR	AC700010
	1	MOUNTING BRACKET, THERMAL OVERLOAD TO CONTACTOR	AC700040
4	1	POWER SUPPLY, MEAN WELL, SINGLE OUTPUT, SWITCHING, 24V, 6.5 AMP, 150 WATT	AC700011
5	3	INTRINSICALLY SAFE ISOLATOR, 2-CHANNEL FOR SWITCHES & PROXIMITY DETECTORS, 24V POWER	AC700012
6	2	ZENER DI ODE BARRIERS FOR ENCODER INPUTS	AC700013
7	2	ZENER DI ODE BARRIERS FOR ENCODER OUTPUTS	AC700014
8	1	MOUNTING KIT FOR ENCODER BARRIERS	AC700015
9	15	CORD GRIP NUT, KLEINHUIS IPON, NPT 1/2"	AC700016
10	15	CORD GRIP NUT, KLEINHUIS IPON, NPT 1/2"	AC700017
11	4	STAND-OFF, HEX ALUINUM MALE-FEMALE, 1-1/2" Lg. #4-40 SCREW SIZE	AC700018
12	1	DIN RAIL, DIN 3, RINC COATED STEEL, EN50022 x 6 1/2" Lg.	AC700019
13	2	GROUND BLOCK, SCREW CLAMP, 6mm WIDTH, 22-12AWG WIRE, GREEN/YELLOW COLOR	AC700020
14	1	TERMINAL BLOCK, SCREW CLAMP, 6mmWIDTH, 22-12 AWG WIRE, BLUE COLOR	AC700021
15	1	WIRE DUCT., 1" x 1 1/2", GRAY PVC, STANDARD SLOTTED, ADHESIVE BACK x 41" Lg.	AC700022
16	2	RELAY, 250 VAC, 10 AMP, COIL VOLTAGE 24VDC	AC700023
17	2	RELAY BASE	AC700024
18	1	PRINTED CIRCUIT BOARD	AP01225
19	4	STANDOFF 3/8" FEMALE TO 5/16" FEMALE	AP01284
20	4	WASHER, INTERNAL TOOTH #4	AP00016
21	4	SCREW, SHCS 4-40NC 3/8"	AP00037
22	4	NUT, NYLON INSERT 4-40NC	AP00364
23	1	PLC MOUNTING PLATE	AP01228
24	1	PLC	AP01226
25	1	PLC COVER	AP01227
26	2	STANDOFF, 8-32 x 1 1/2" MALE/FEMALE	AP01307
27	17	WASHER, INTERNAL TOOTH #8	AP00017
28	11	SCREW, SHCS 8-32 x 1/2"	AP00297
29	4	NUT, 8-32	AP01308
30	1	PUSHBUTTON, GREEN	AC700031
31	5	CONTACT BLOCK, NO	AC700032
32	1	PUSHBUTTON, ILLUMINATED, YELLOW	AC700033
33	1	LAMP HOLDER	AC700034
34	1	LED LIGHT, 24VDC, YELLOW	AC700035
35	1	PUSHBUTTON, RED	AC700038
36	1	COMPLETE LIGHT, RED	AC700036
37	1	LED LIGHT, 24VDC, RED	AC700037
38	1	COMPLETE LIGHT, GREEN	AC700029
39	1	LED LIGHT, 24VDC, GREEN	AC700030
40	2	CABLE GRIP	AP00183
41	1	SELECTOR	AC700041
42	1	NAMEPLATE, IS	NP622
43	6	LEGEND HOLDER	AC700042
44	1	LEGEND PLATE "POWER ON"	AC700043
45	1	LEGEND PLATE "OFF-ON"	AC700044
46	1	LEGEND PLATE "OPERATOR LOCKOUT"	AC700045
47	1	LEGEND PLATE "RAISE"	AC700046
48	1	LEGEND PLATE "LOCK"	AC700047
49	1	LEGEND PLATE "LOWER"	AC700048
50	1	8-32 x 3/4" SHCS	AP00045
51	1	LEGEND PLATE "JACK HEIGHT BYPASS"	AC700049
52	1	3/8" HHCS x 1" Lg. PLATED	40138
53	2	3/8" HEX NUT	AP00031
54	2	3/8" LOCKWASHER	AP00030
55	2	5/16"-18 HHCS x 1" GR5 PLATED	AP00041
56	2	NAMEPLATE, INTRINSICLY SAFE	NP624

MASTER PANEL (SEE TABLE)



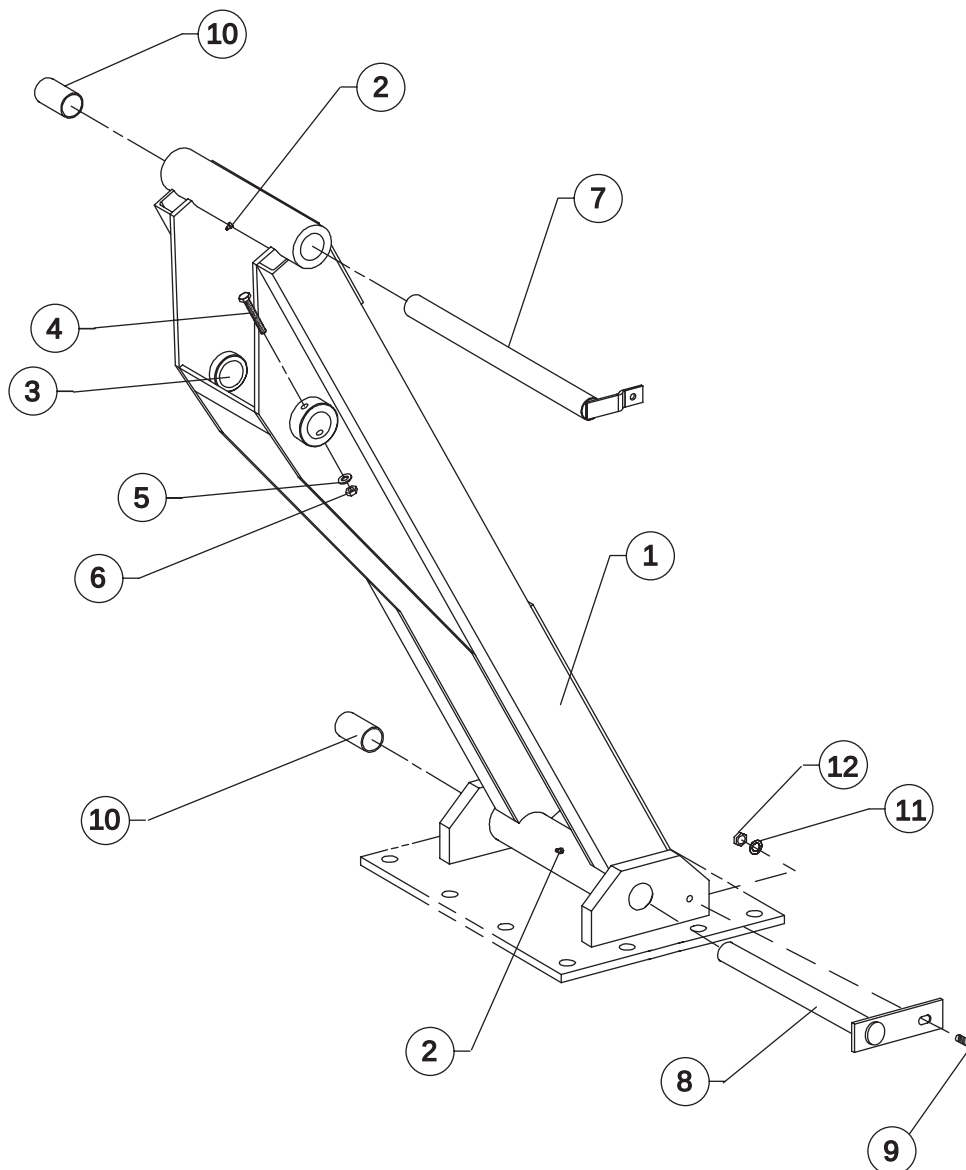
TOP VIEW

FLUORESCENT LIGHTING & SAFETY SWITCH ASSEMBLIES



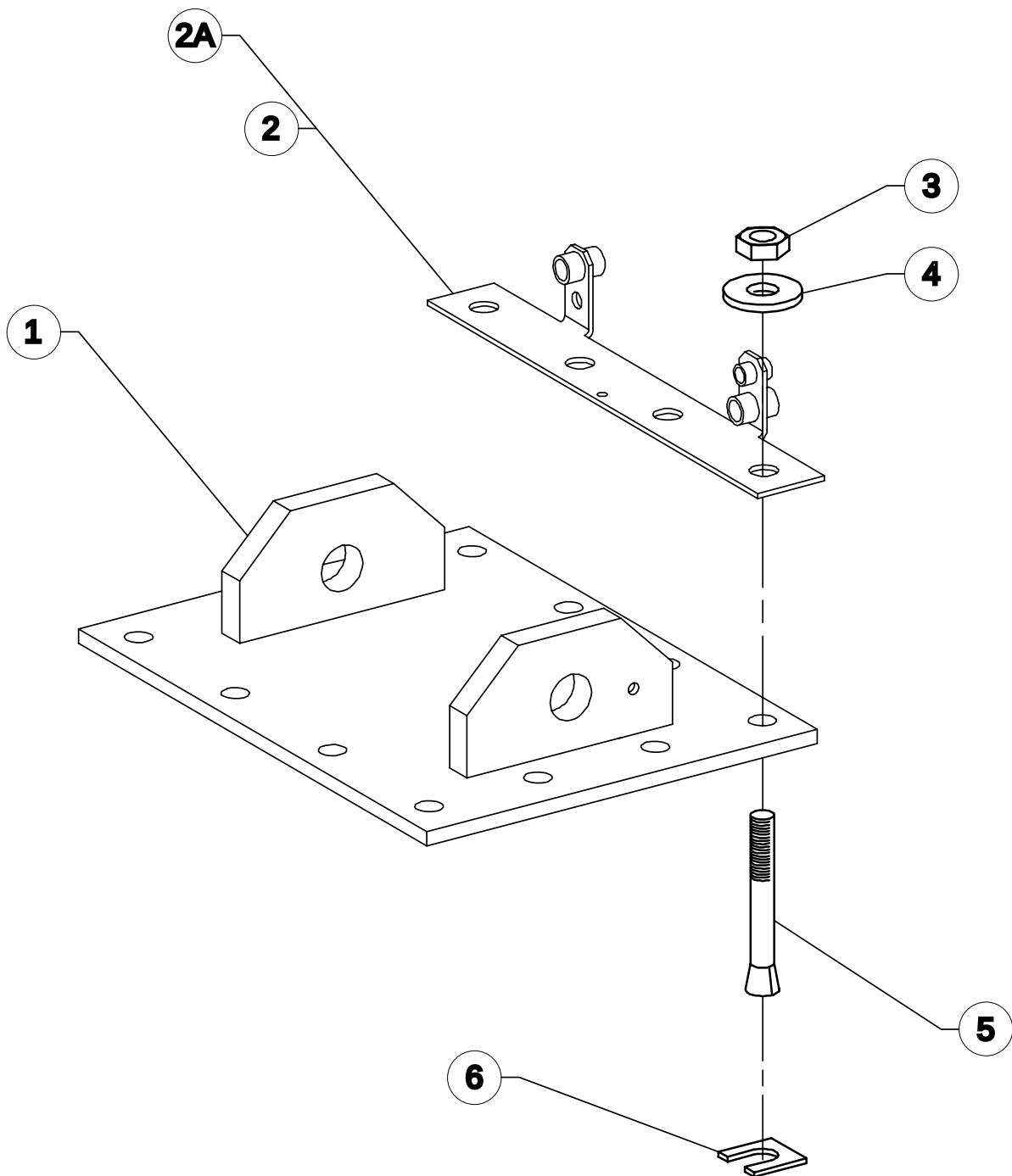
ITEM NO.	QTY	UM	P/N	DESCRIPTION
1	2	ea	AP00022	POLY NUT 1/4 - 20
2	2	ea	AP00302	MOUNTING CLAMP
3	2	ea	40147	1/4 - 20 X 3/4 SHCS
4	1	ea	AP00294	WORKLIGHT
5	3	ea	AP00457	WIRENUT - RED
6	1	ea	AP00754	JUNCTION BOX 4X4X2
7	4	ea	40657	3/8" LOCKNUT
8	2	ea	AP00234	1/4 - 20 X 3/4 BHCS
9	2	ea	AP00182	CABLE GRIP 3/8"
10	1	ea	AP00293	MOUNTING CHANNEL
11	24	ea	AP00793	1/8" POP RIVET, STAINLESS
12	1	ea	AP01387	SAFETY SWITCH 28'
13	1	ea	AP00292	SAFETY SWITCH HOUSING

LIFTING LEG ASSEMBLY



ITEM NO.	QTY	UM	P/N	DESCRIPTION
1	1	ea	AP02620	LIFTING LEG, 6" FLUSH MACHINE
2	2	ea	AP00701	GREASE FITTING
3	2	ea	AP00816	LOAD BUSHING
4	2	ea	AP01329	BOLT, 1/2 -13 x 3 1/4" FHSCS
5	2	ea	40915	WASHER, SPLIT LOCK 1/2"
6	2	ea	40702	NUT, HEX 1/2"
7	1	ea	AP02635	PIVOT PIN, LEG TO PLATFORM CONNECTION, 6" MACHINE
8	1	ea	AP02636	PIVOT PIN, LEG TO LOWER LEG BRACKET, 6" MACHINE
9	4	ea	40314	BOLT 1/2" x 2" HHCS GRD 5
10	2	ea	AP02637	PIVOT PIN BUSHING, 6" MACHINE
11	2	ea	40920	WASHER, FLAT 1/2"
12	1	ea	40702	NUT, HEX 1/2"

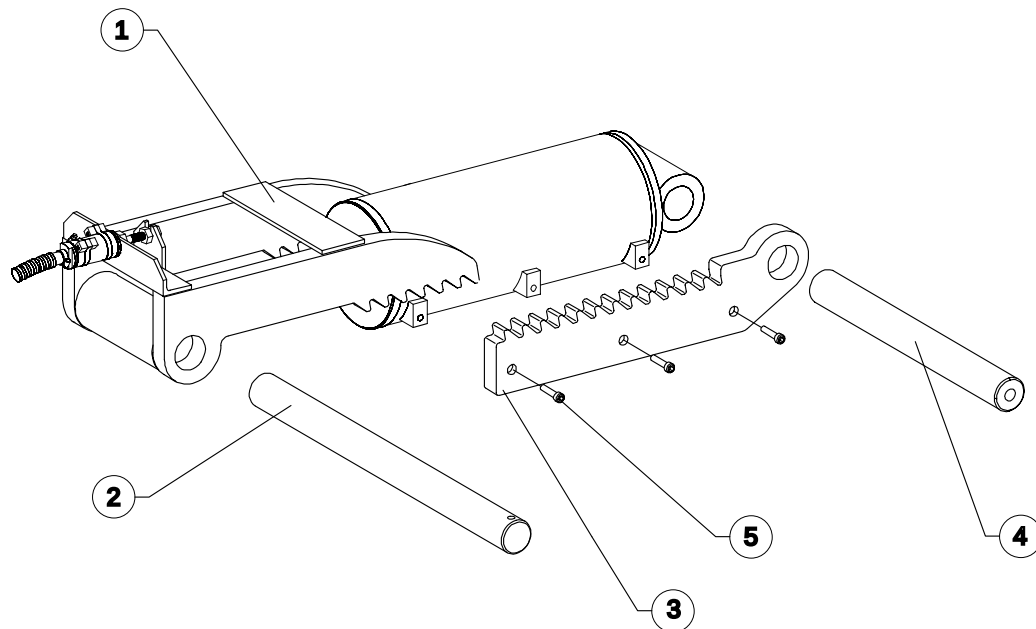
LOWER LEG BRACKET ASSEMBLY



ITEM NO.	QTY	UM	P/N	DESCRIPTION
1	1	ea	AP02594	LOWER LEG BRACKET
2	1	ea	AP01486	SERVICE BRACKET, RIGHT HAND (SERVICE LEG ONLY)
2A	1	ea	AP01485	SERVICE BRACKET, LEFT HAND (SERVICE LEG ONLY)
3	12	ea	**	HEX NUT
4	12	ea	**	FLAT WASHER
5	12	ea	**	ANCHOR BOLT
6	*	ea	AP00400	3 X 3 FINGER SHIM .030
6	*	ea	AP00401	3X 3 FINGER SHIM 1/16
6	*	ea	AP00402	3 X 3 FINGER SHIM 1/8
6	*	ea	AP00403	3 X 3 FINGER SHIM 1/4

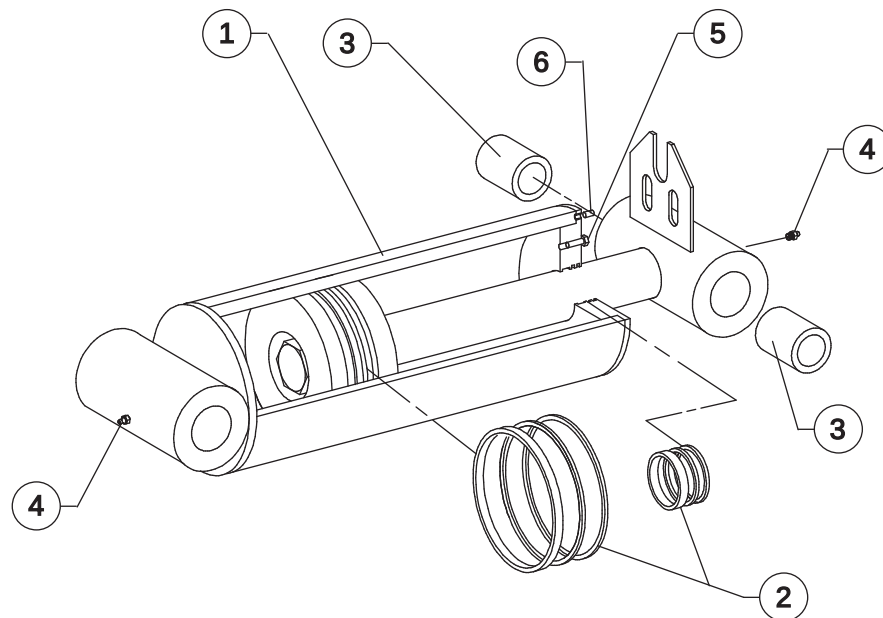
* Various Quantities

** USE ONLY ANCHORS LISTED ON EFR



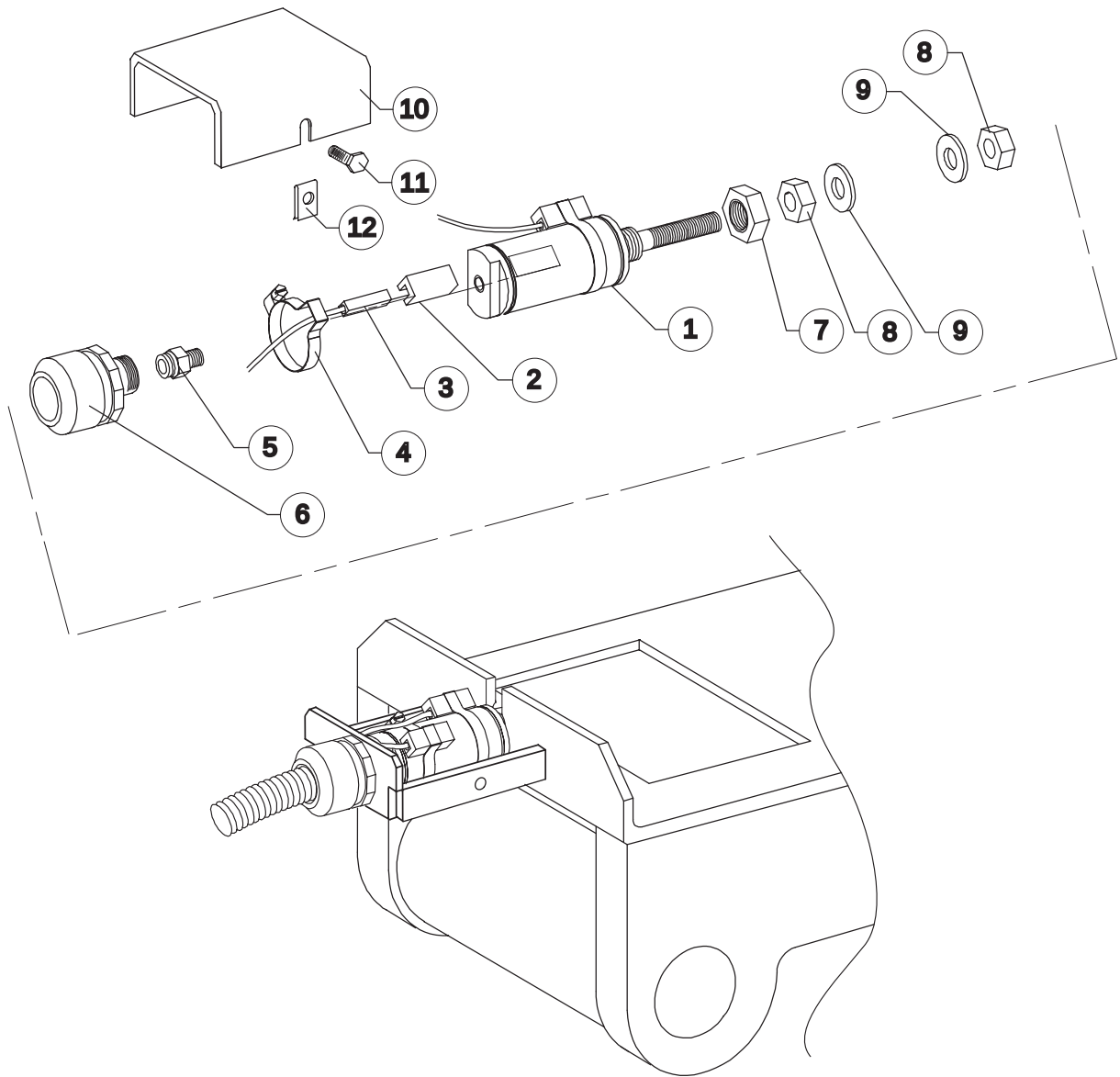
ITEM NO.	QTY	UM	P/N	DESCRIPTION
1	1	ea	AP02680	UPPER LOCK ASSEMBLY, 12 POSITION
2	1	ea	AP01339	PIVOT PIN, LEG TO CYLINDER CONNECTION
3	1	ea	AP02681	LOWER LOCK, RIGHT HAND, 12 POSITION
4	1	ea	AP01342	PIVOT PIN, CYLINDER TO PLATFORM CONNECTION
5	6	ea	AP00752	SCREW, SOCKET HEAD CAP, BLK, 3/8-16 X 1

HYDRAULIC CYLINDER ASSEMBLY



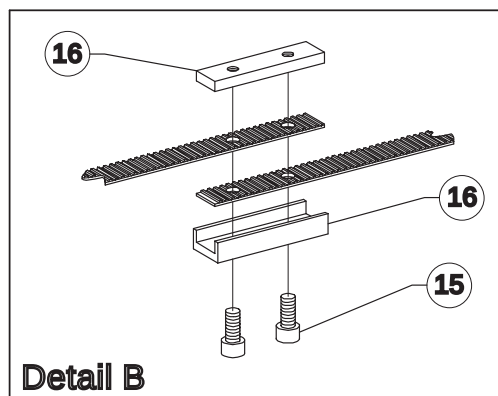
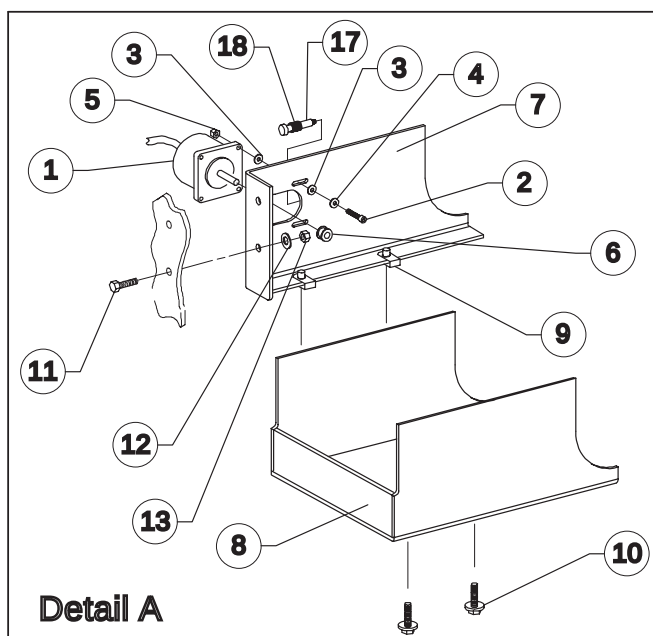
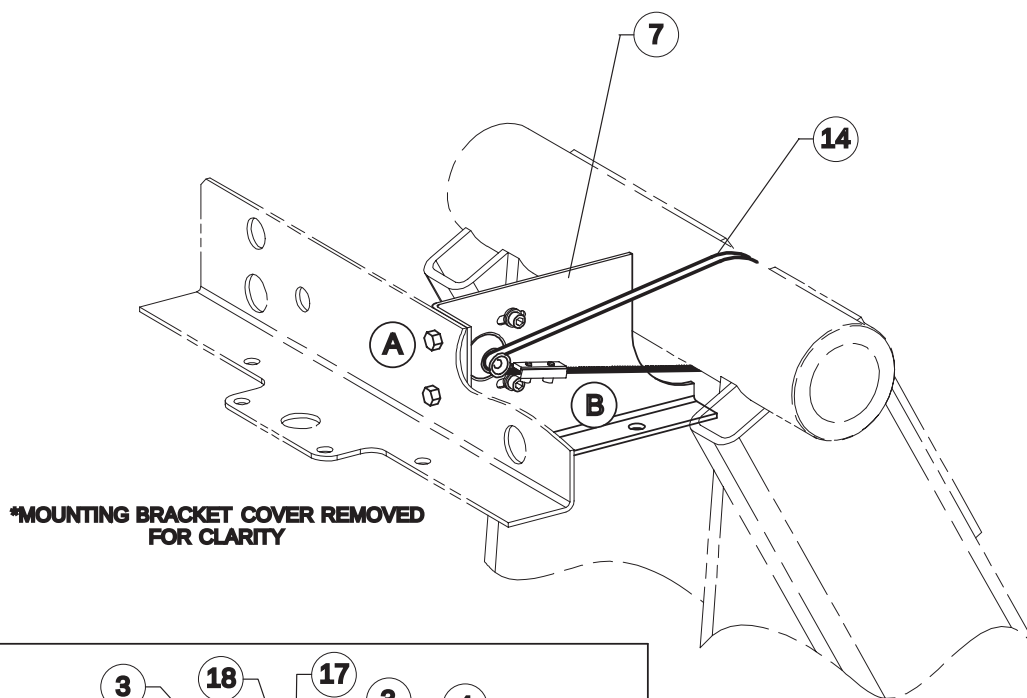
ITEM NO.	QTY	UM	P/N	DESCRIPTION
1	1	ea	AP02650	HYDRAULIC CYLINDER
2	1	ea	AP00704	SEAL KIT 6"
3	2	ea	AP00816	BUSHING, PIVOT PIN
4	2	ea	AP00701	GREASE NIPPLE, 1/8" NPT
5	1	ea	AP00811	BREATHER, BRONZE
6	1	ea	AP00856	SET SCREW, ROD END CAP

PNEUMATIC CYLINDER ASSEMBLY



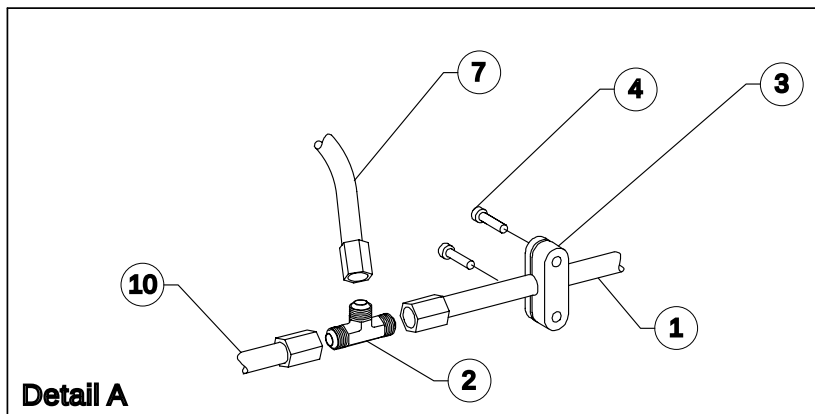
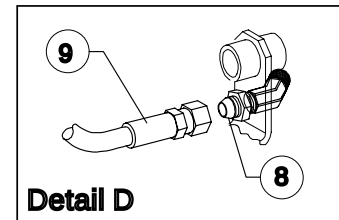
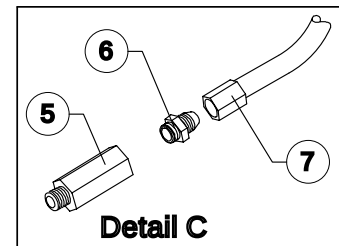
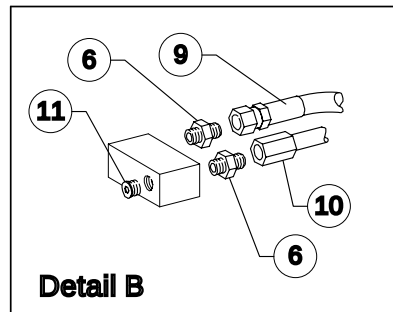
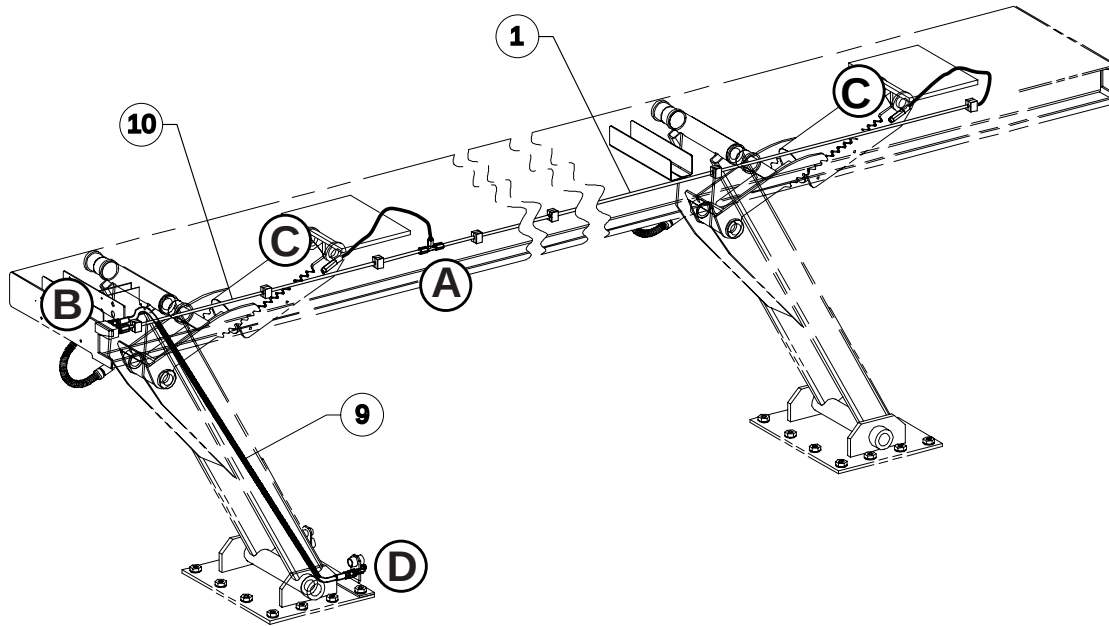
ITEM NO.	QTY	UM	P/N	DESCRIPTION
1	1	ea	AP00221	PNEUMATIC CYLINDER, STAINLESS STEEL
2	2	ea	AP00746	REED SWITCH HOUSING
3	2	ea	AP00223	REED SWITCH
4	2	ea	AP00222	REED SWITCH CLAMP
5	1	ea.	FC5225-47	CONNECTOR, MALE 1/4" AIR TUBE
6	1	ea	AP00277	CONDUIT FITTING, STRAIGHT, 3/4"
7	1	ea	AP00773	MOUNTING NUT
8	2	ea	AP00237	LOCKNUT, 7/16-20 NYLON INSERT
9	2	ea	40940	FLATWASHER 1/2" U.S.S.
10	6	ea.	AP02599	COVER, ENCLOSURE, AIR CYLINDER
11	12	ea.	41544	BOLT, HHCS, CAPTIVE WASHER, PLATED, 1/4"-20-3/4"
12	12	ea.	40654	J-NUT, 1/4"-20

POSITION SENSOR ASSEMBLY



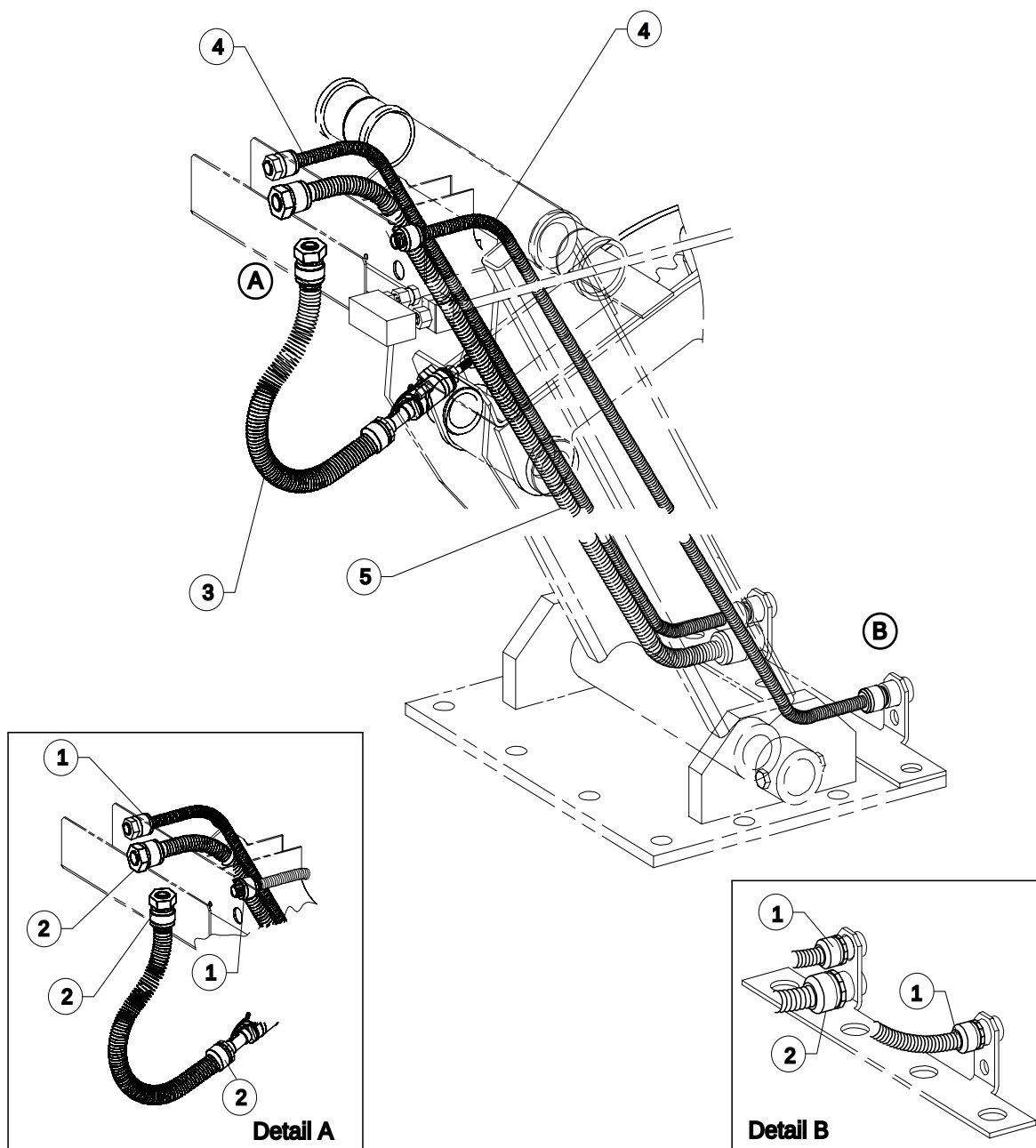
ITEM NO.	QTY	UM	P/N	DESCRIPTION
1	1	ea	AP02540	ENCODER, ROTARY
2	4	ea	AP01519	SCREW, 8-32 x 1" SHCS, SS
3	8	ea	AP01521	WASHER, #8 NYLON RETAINING
4	4	ea	AP00795	WASHER, FLAT #8, SS
5	4	ea	AP01520	NUT, HEX 8-32, SS
6	1	ea	AP01345	PULLEY, TIMING BELT - .509 DIA. x .080 PITCH
7	1	ea	AP02607	BRACKET, ENCODER MOUNTING
8	1	ea	AP02608	COVER, ENCODER MOUNTING BRACKET
9	2	ea	41544	J-NUT CLIP, 1/4-20
10	2	ea	AP01348	BOLT WITH CAPTIVE WASHER, 1/4-20 x 3/4"
11	2	ea	40138	BOLT, 3/8-16 x 1"
12	2	ea	40800	WASHER, SPLIT LOCK 3/8"
13	2	ea	40659	NUT, HEX - 3/8"-16, PLATED
14	1	ea	AP01349	BELT, TIMING - .080 PITCH
15	2	ea	AP01531	SCREW, 8-32 x .375, SS
16	1	ea	AP01532	CLAMP, ENCODER BELT, SS
17	1	ea	AP01517	PLUNGER, BELT TENSIONING
18	1	ea	AP01518	SPRING, BELT TENSIONING

PLATFORM/LIFTING LEG; HYDRAULIC HOSE, TUBING & FITTING DETAIL



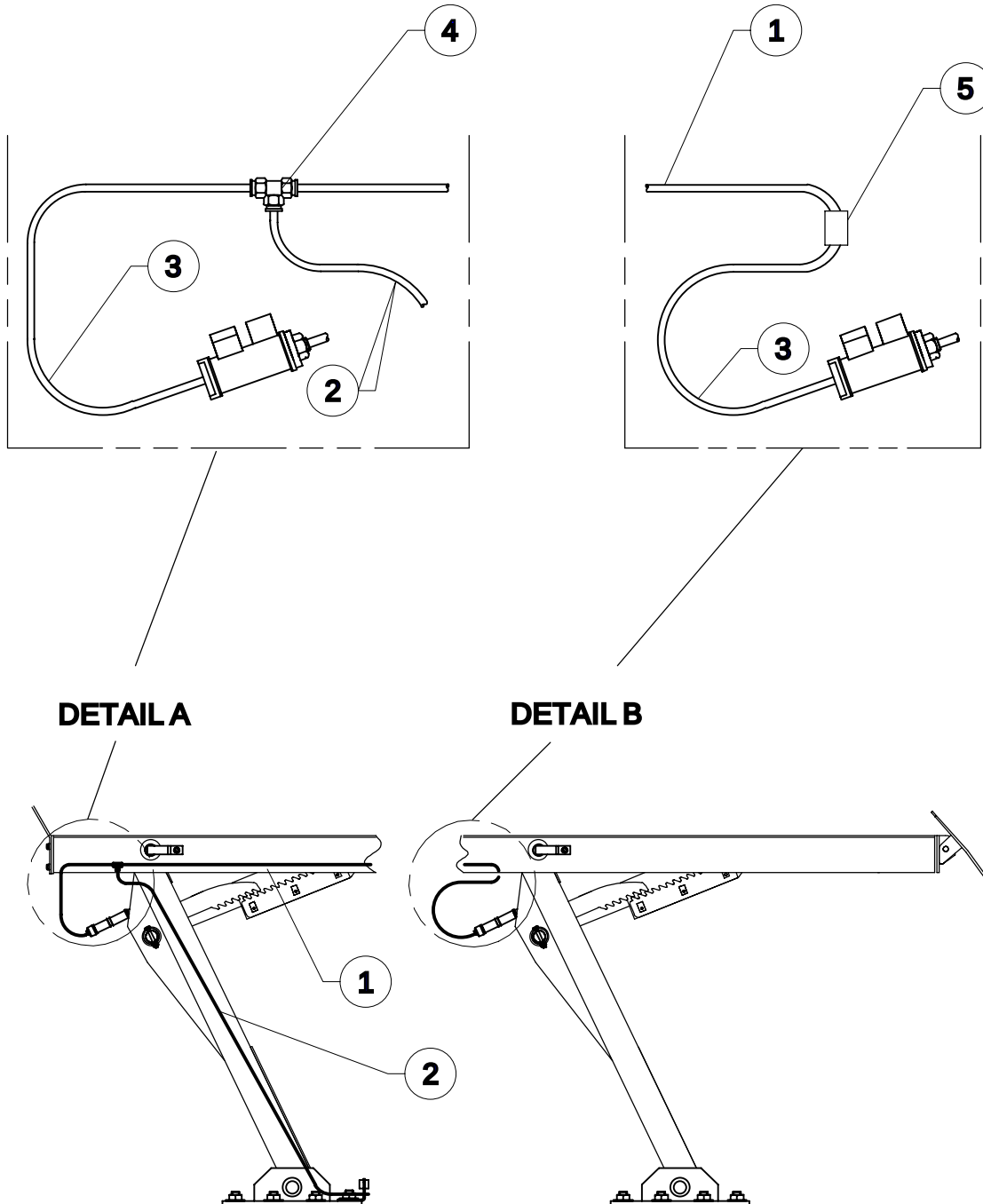
ITEM NO.	QTY	UM	P/N	DESCRIPTION
1	1	ea	AP01399	S.S. TUBE ASSEMBLY - REAR
2	1	ea	AP00756	UNION TEE, #8
3	6	ea	AP00699	TUBE CLAMP ASSEMBLY
4	12	ea	40102	SCREW, 1/4"-20 X 1" SHCS
5	2	ea	AP00700	VELOCITY FUSE
6	4	ea	AP00155	MALE ADAPTER
7	2	ea	AP02634	HOSE ASSEMBLY, PLATFORM TO CYLINDER CONNECTION
8	1	ea	AP01260	BULKHEAD FITTING, #8, 45°
9	1	ea	AP01356	HOSE ASSEMBLY, SERVICE LEG
10	1	ea	AP01376	S.S. TUBE ASSEMBLY, INTERMEDIATE
11	1	ea	AP00336	O-RING PLUG, 3/4"-16

SERVICE LEG CONDUIT DETAIL

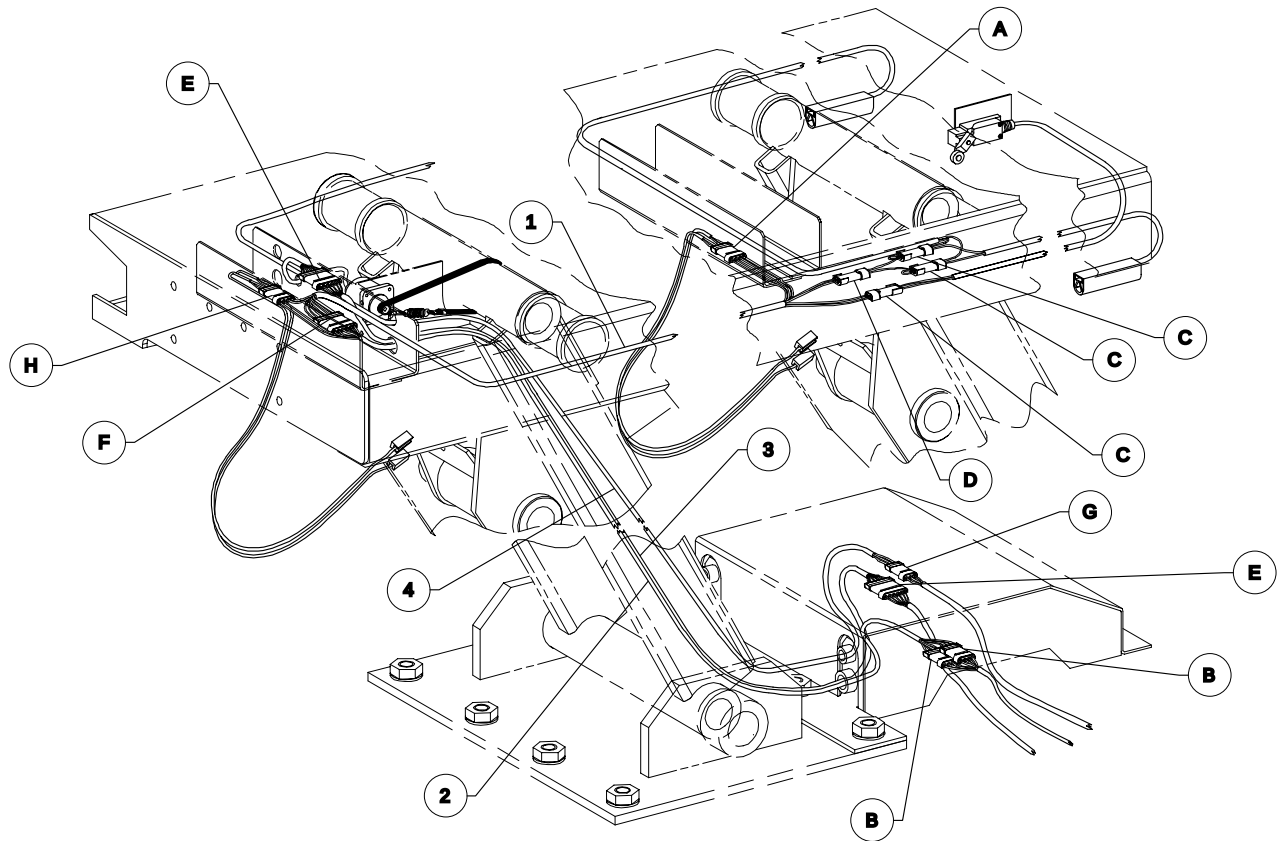


ITEM NO.	QTY	UM	P/N	DESCRIPTION
1	4	ea	AP01213	CONDUIT FITTING, STRAIGHT, 1/2"
2	4	ea	AP00277	CONDUIT FITTING, STRAIGHT, 3/4"
3	1	in	AP00276	FLEXIBLE CONDUIT, 3/4" X 18"
4	2	in	AP01212	FLEXIBLE CONDUIT, 1/2" X 85"
5	1	in	AP00276	FLEXIBLE CONDUIT, 3/4" X 85"

PNEUMATIC TUBING/FITTING DETAIL



ITEM NO.	QTY	UM	P/N	DESCRIPTION
1	1	ea	AP01010	AIR LINE/TUBING, 1/4", P-3-240"
2	1	ea	AP00937	AIR LINE/TUBING, 1/4", P-1-100"
3	2	ea	AP00936	AIR LINE/TUBING, 1.4", P-2-25"
4	1	ea	AP00224	AIR FITTING, TEE UNION
5	1	ea	AP01360	AIR FITTING, UNION 1/4"



WIRING HARNESS DETAIL TABLE

ITEM NO.	QTY	UM	P/N	DESCRIPTION
1	1	ea	AP01403	LIFT RACEWAY HARNESS, 8/C 16 AWG
2	1	ea	AP00998	LIFTING LEG HARNESS, 8/C 16 AWG
3	1	ea	AP01241	ENCODER HARNESS, 6/C 20 AWG
4	1	ea	AP00010	LIGHT HARNESS, 3/C 16 AWG
5	4	ea	AP00967	CONNECTOR, MALE 4 CONTACT
6	4	ea	AP00968	CONNECTOR, FEMALE 4 CONTACT
7	3	ea	AP00306	CONNECTOR, MALE 6 CONTACT
8	3	ea	AP00310	CONNECTOR, FEMALE 6 CONTACT
9	4	ea	AP00305	CONNECTOR, MALE 2 CONTACT
10	4	ea	AP00308	CONNECTOR, FEMALE 2 CONTACT
11	1	ea	AP00304	CONNECTOR, MALE 3 CONTACT
12	1	ea	AP00309	CONNECTOR, FEMALE 3 CONTACT
13	28	ea	AP00311	RED CABLE SEAL - 20 AWG
14	54	ea	AP00307	GREEN CABLE SEAL - 16 AWG
15	8	ea	AP00303	GREY CABLE SEAL - 16 AWG
16	18	ea	AP00313	TERMINAL, MALE - 20 AWG
17	18	ea	AP00314	TERMINAL, FEMALE - 20 AWG
18	25	ea	AP00315	TERMINAL, MALE - 16 AWG
19	29	ea	AP00312	TERMINAL, FEMALE - 16 AWG

WIRING HARNESS DETAIL (SEE TABLE)

