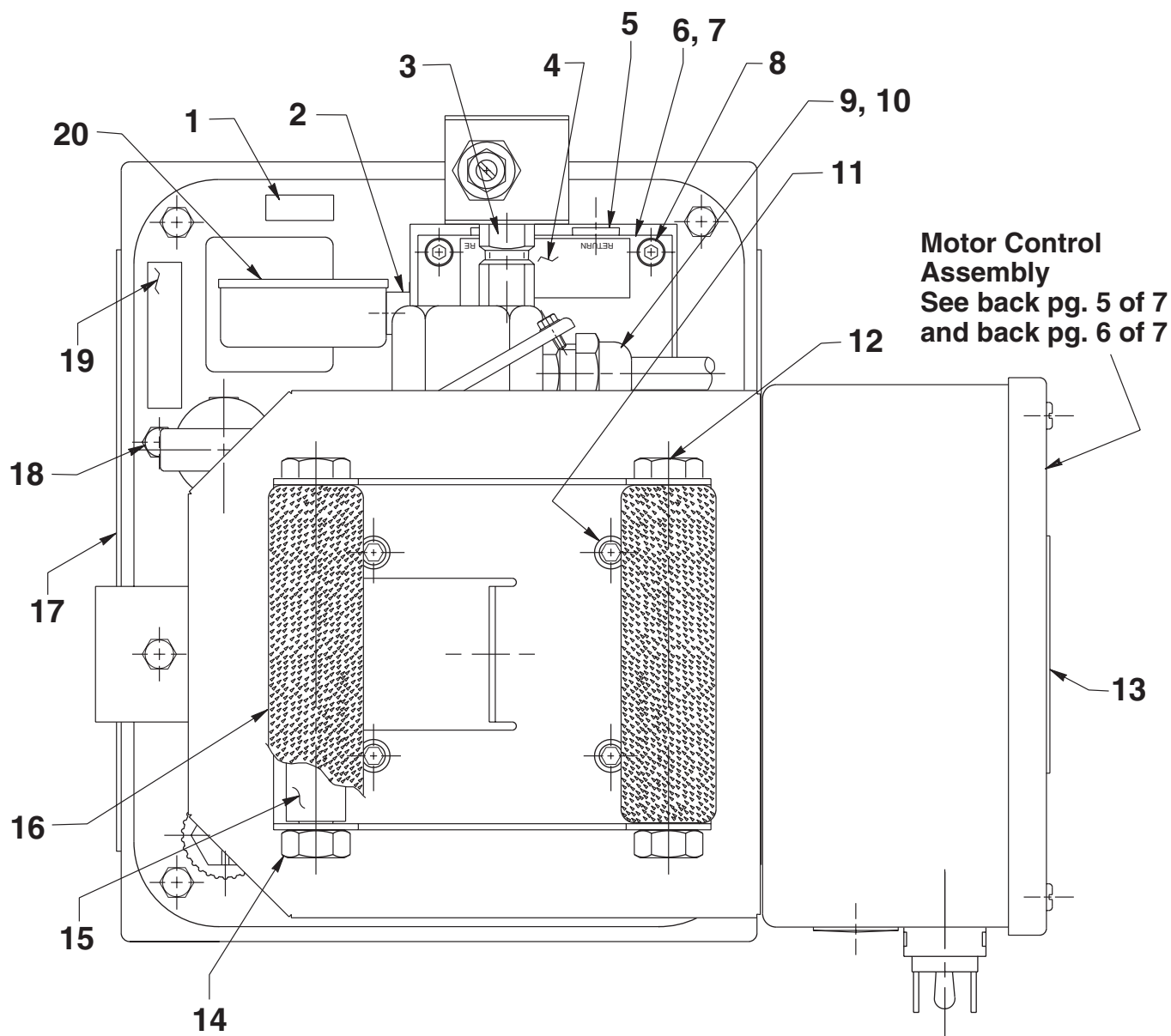


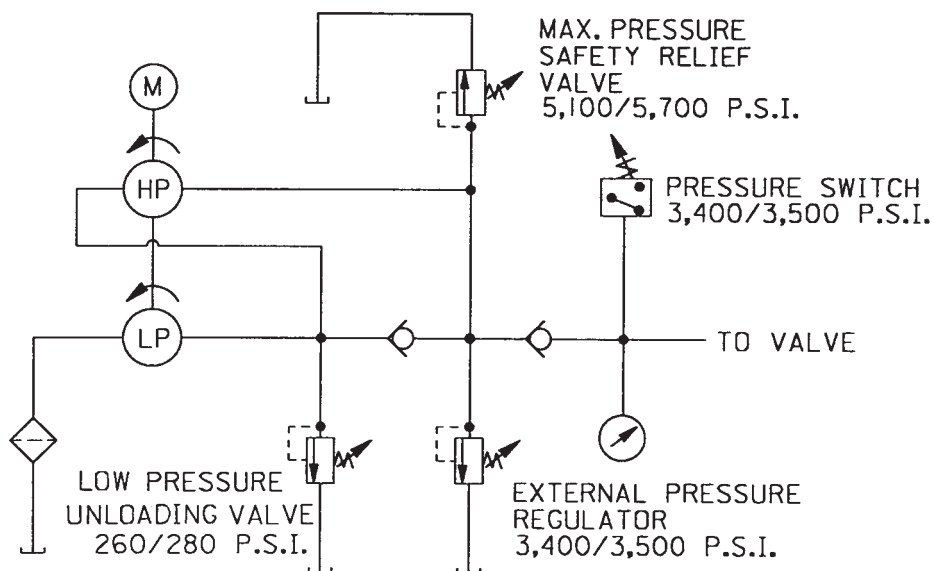
MODEL A
ELECTRIC TWO-STAGE HYDRAULIC PUMP
Max. Capacity: 5,000 PSI

TOP VIEW

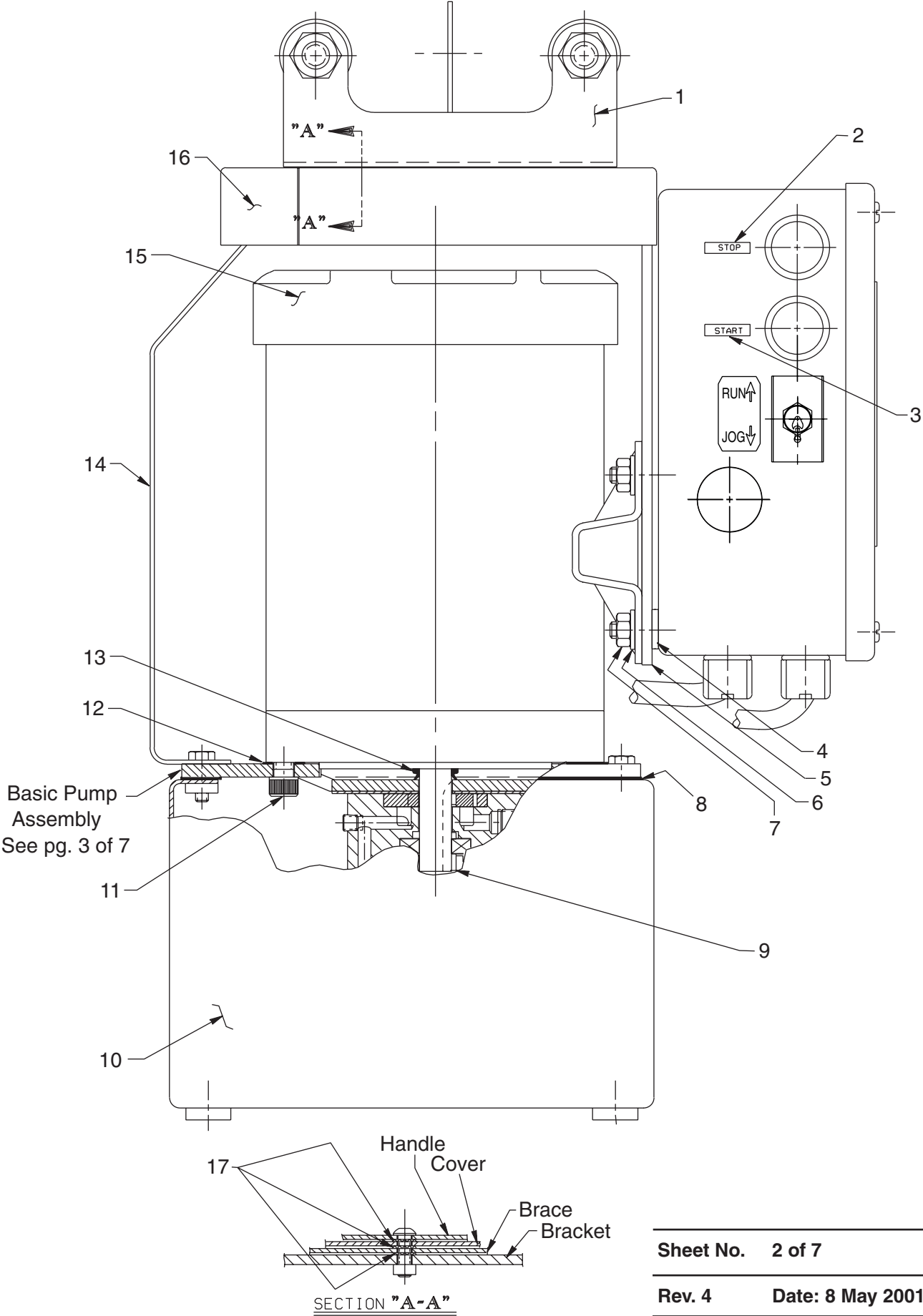
Item No.	Part No.	Qty. Req'd	Description
1	203972	1	Decal (CSA approval; Not part of 100155-KD)
2	10645	1	45° Elbow Fitting
3	10617	2	Elbow Fitting (For 100155 & 100155-230)
	10617	1	Elbow Fitting (For 100155-KD)
4	210995	1	Decal (Manifold)
5	13270	2	Plastic Cap
6	45837	1	Manifold
7	200609	1	Drain Tube
8	10020	4	Soc. Hd. Cap Screw (1/4-20 UNC x 1-1/2 Lg.)
9	216666	1	Strain Relief Bushing
10	216680	1	Locknut
11	250383	4	Button Hd. Cap Screw (1/4-20 UNC x 3/4 Lg.)
12	216681	2	Hex. Hd. Bolt (1/2-13 UNC x 5-1/2 Lg.)
13	309114	1	Warning Decal
14	10208	2	Hex. Nut (1/2-13 UNC)
15	216658	2	Handle Tube
16	216668	2	Handle Grip
17	309233	2	Trade Name Decal
18	10009	10	Hex. Hd. Cap Screw (1/4-20 UNC x 3/4 Lg.)
19	213695	1	Decal
20	17946	1	Pressure Gauge

Not part of
100155-KD

HYDRAULIC SCHEMATIC



SIDE VIEW



Item No.	Part No.	Qty. Req'd	Description
1	53513BK2	1	Handle Bracket
2	203769	1	Decal (Stop)
3	203808	1	Decal (Start)
4	16450	4	Washer (1" x .260 x .120)
5	53514BK2	1	Mounting Bracket
6	12719	4	Washer (.630 x .256 x .065)
7	10199	4	Hex. Nut (1/4-20 UNC)
8	40164	1	Reservoir Gasket
9	214097	1	Key
10	40063PU2	1	Reservior
11	10050	4	Soc. Hd. Cap Screw (3/8-16 UNC x 1" Lg.; Torque to 90/100 in. lbs.)
12	307425	1	Motor Gasket
13	213674	1	Shaft Seal
14	53515BK2	1	Brace (Not part of 100155-KD)
15	58061BK2	1	Electric Motor
16	53516BK2	1	Cover (Not part of 100155-KD)
17	11351	12	Washer (External Tooth - NOTE: Place lockwasher between each layer of sheet metal at each screw location.) (Not part of 100155-KD.)

Not part of
100155-KD

PARTS INCLUDED BUT NOT SHOWN

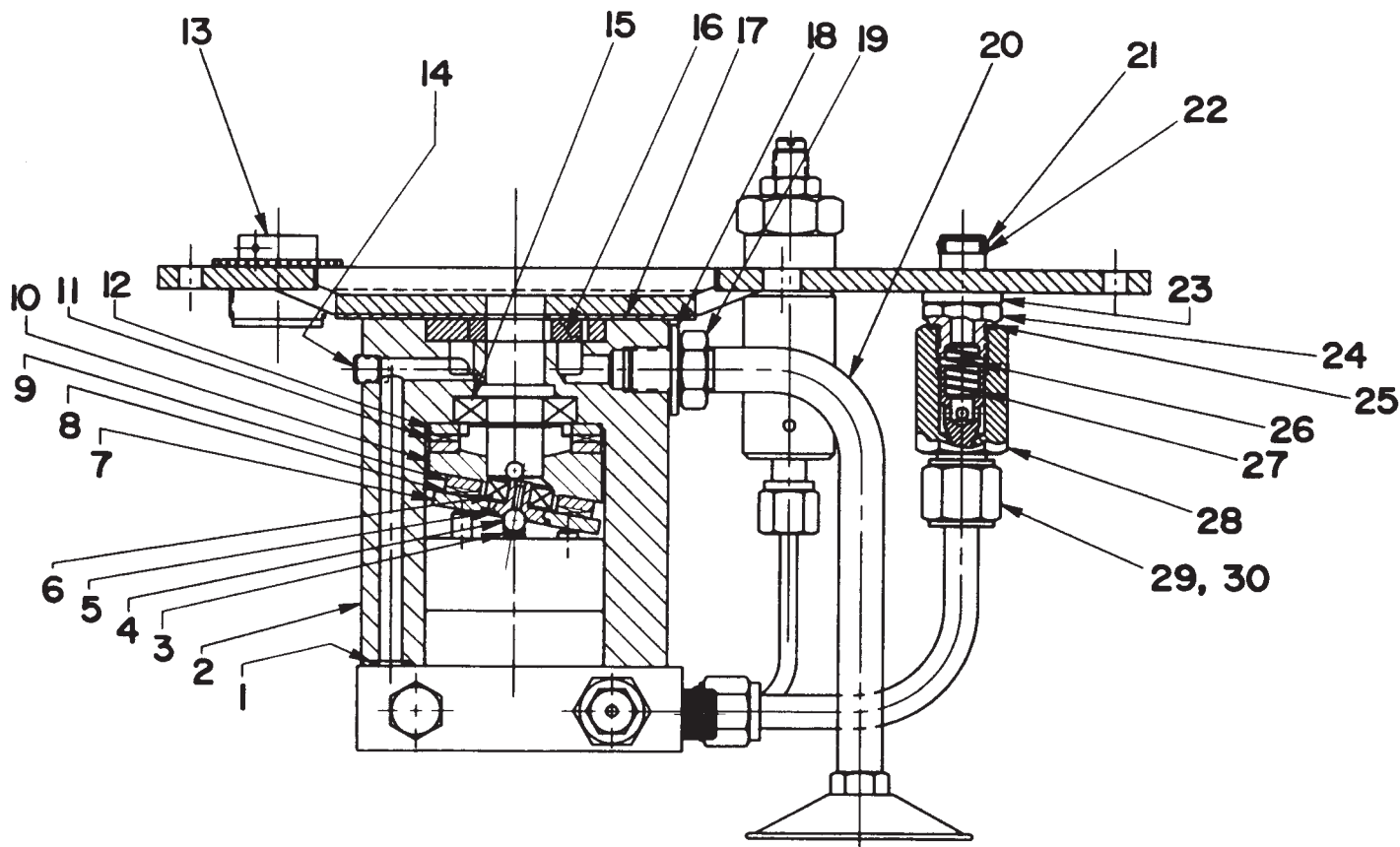
309114	1	Decal (One half a WARNING and one half an IMPORTANT.) (Not part of 100155-KD.)
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Refer to any operating instructions included with this product for detailed information about operation, testing, disassembly, reassembly, and preventive maintenance.

Items found in this parts list have been carefully tested and selected. **Therefore: Use only genuine Hytec replacement parts!**

Additional questions can be directed to our Technical Services Department.

BASIC PUMP ASSEMBLY-SIDE VIEW



Item No.	Part No.	No. Req'd	Description
1	10267	1	O-ring (7/16 x 5/16 x 1/16; Nitrile)
	18974	1	O-ring (7/16 x 5/16 x 1/161; Viton)
	13472	1	O-ring (7/16 x 5/16 x 1/16; EPR)
2	52883	1	Pump Body
3	16320	1	Compression Spring (1/4 O.D. x 3/4 Lg.)
4	10375	1	Steel Ball (1/4 dia.)
5	23547	1	Top Plate Bearing
6	11814	1	Ball Bearing
7	23548	1	Top Plate
8	15431	1	Needle Thrust Bearing
9	15432	1	Needle Thrust Race Bearing
10	35271	1	Angle Plate
11	11228	1	Needle Thrust Bearing
12	11227	2	Needle Thrust Race Bearing
13	213706	1	Filler Cap
14	11084	1	Pipe Plug (1/16 NPTF)
15	15695	1	Ball Bearing
16	15693	1	Gerotor Set
17	307296	1	Wear Plate
18	213709	1	Seal Washer (Nitrile)
	215633	1	Seal Washer (Viton)
	215634	1	Seal Washer (EPR)

Turn on –
Do not
push on

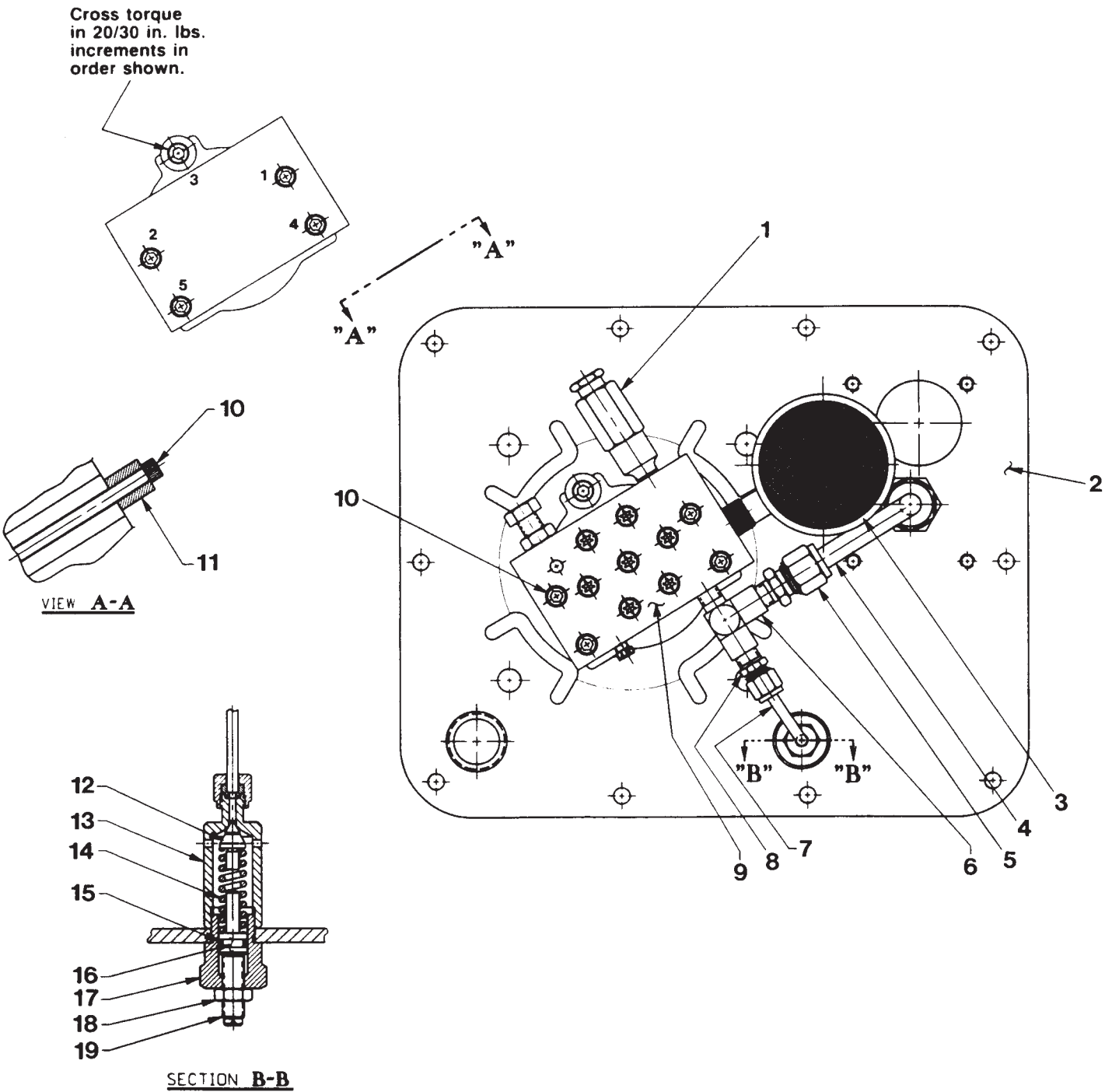
Item No.	Part No.	No. Req'd	Description
19	10390	1	Hex. Jam Nut (1/2-20 UNF)
20	213686	1	Intake Tube
21	10268	1	O-ring (1/2 x 3/8 x 1/16; Nitrile)
	11439	1	O-ring (1/2 x 3/8 x 1/16; Viton)
	17716	1	O-ring (1/2 x 3/8 x 1/16; EPR)
22	11863	1	Teflon Backup Washer
23	21484	1	Washer
24	214762	1	Valve Connector (Note: The torque between the valve connector and the cover plate shall be 30 ft. lbs. max. The torque between the valve connector and the check valve body shall be 40-50 ft. lbs.)
25	10261	1	Copper Washer (3/4 x 19/32 x 1/32)
26	10425	1	Compression Spring (3/8 O.D. x 3/4 Lg.)
27	20771	1	Poppet
28	201879	1	Check Valve Body
29	10430	1	Tube Sleeve (For 3/8 tube)
30	10431	1	Tube Nut (5/8-18 UNF; Torque to 40/50 ft. lbs. while holding Valve Connector item #24.)

Sheet No. 3 of 7

Rev. 4

Date: 8 May 2001

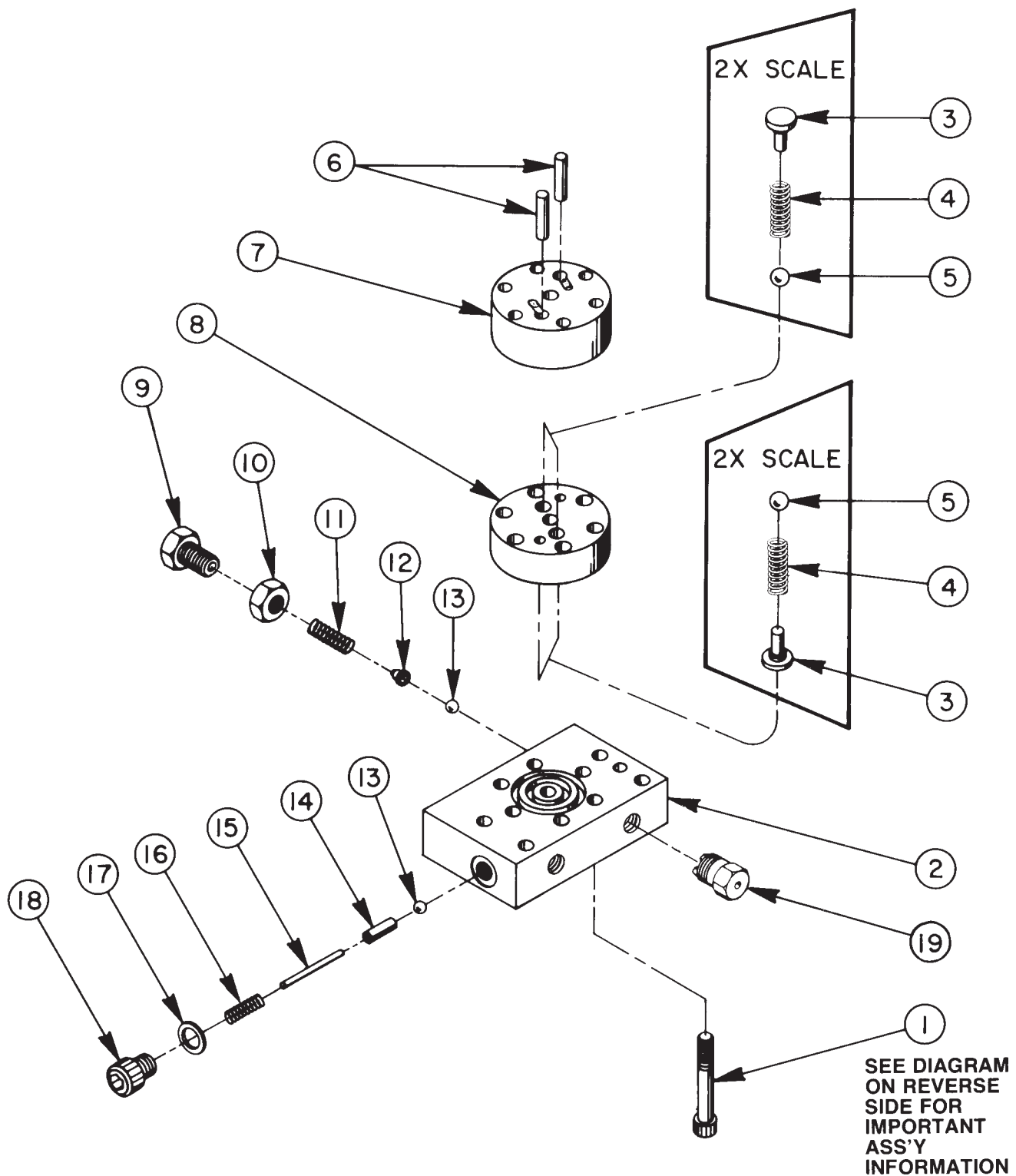
BASIC PUMP ASSEMBLY-BOTTOM VIEW



External Relief Valve

Item No.	Part No.	Qty. Req'd	Description
1	21278-50	1	Relief Valve (Set at 5,100/5,700 PSI)
2	47404BK2	1	Reservoir Cover
3	29682	1	Filter Strainer
4	214866	1	Tube (Oil Line)
5	12696	1	Straight Fitting (1/8 NPTF to 3/8 tube)
6	18969	1	Tee Fitting (1/8 x 1/8 x 1/8 NPTF)
7	214868	1	Regulator Oil Line Assembly
8	14844	1	Straight Fitting (1/8 NPTF to 7/16-20 UNF)
9	309912	1	High Pressure Pump Assembly (See page 4 of 5)
10	15642	5	Soc. Hd. Cap Screw (1/4-20 UNC x 5" Lg.; Torque to 55/65 in. lbs.)
11	214720	1	Spacer
12	21046	1	Valve Stem
13	22361	1	Valve Body
14	10495	1	Compression Spring (1/2 O.D. x 1-5/8 Lg.)
15	10268	1	O-ring (1/2 x 3/8 x 1/16; Nitrile)
	11439	1	O-ring (1/2 x 3/8 x 1/16; Viton)
	17716	1	O-ring (1/2 x 3/8 x 1/16; EPR)
16	21306	1	Spring Guide
17	21305	1	Valve Cap
18	10386	1	Hex. Jam Nut (3/8-24 UNF)
19	22362	1	Valve Adjusting Screw

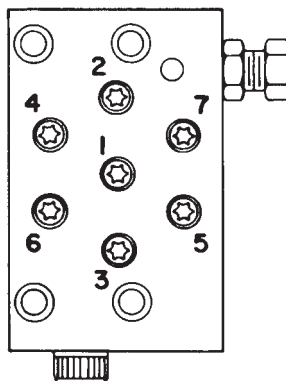
HIGH PRESSURE PUMP ASSEMBLY



	Part No.	No. Req'd	Description
1	*16747	7	Torx Drive Cap Screw (1/4-28 x 1-3/4 Lg.; See diagram below)
2	*36912	1	Pump End Plate
3	*24549	4	Valve Guide
4	*10445	4	Compression Spring (.161 O.D. x 23/32 Lg.)
5	*12223	4	Steel Ball (3/16 dia.)
6	*21628	2	Piston (9/32 dia.)
7	*48020	1	Pump Barrel
8	*41007	1	Valve Head
9	200797	1	Adjusting Screw
10	10386	1	Jam Nut (3/8-24 UNF)
11	15691	1	Compression Spring (.24 OD x .63 x .04 WS)
12	200796	1	Spring & Ball Adapter
13	10375	2	Steel Ball (1/4 dia.)
14	201998	1	Sleeve
15	12571	1	Roll Pin (1/8 dia. x 1-3/8 Lg.)
16	14431	1	Compression Spring (3/16 O.D. x 3/4 Lg.)
17	12042	1	Copper Washer (9/16 x 3/8 x 1/32)
18	29690	1	Cap Screw (Torque to 180 in. lbs.)
19	306957	1	Air Bleed Valve

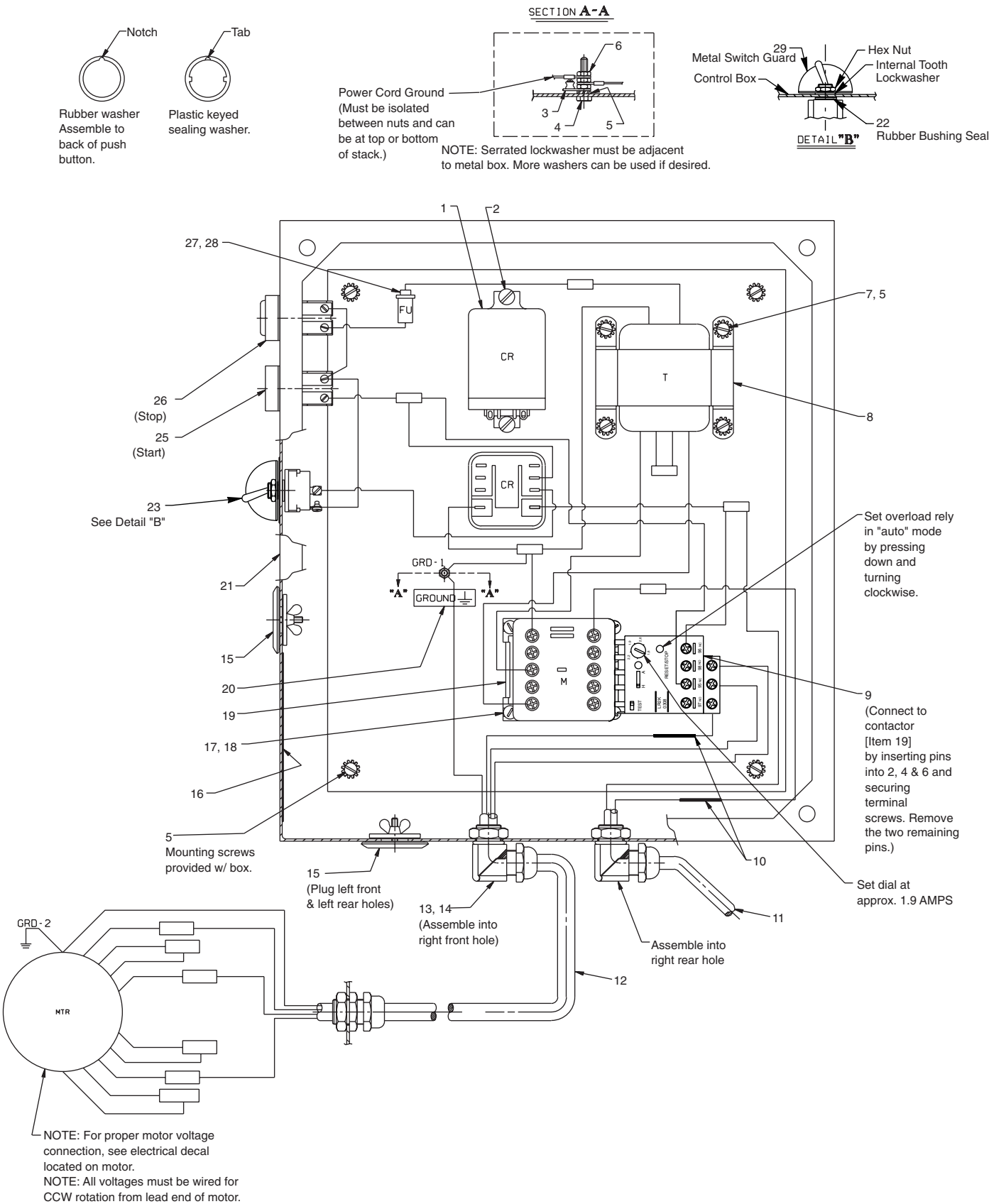
When replacing items marked with an asterisk (*), consult the Hytec Technical Services Department.

BOLT TIGHTENING SEQUENCE



NOTE: Assemble in sequence shown. Lubricate under head and on threads. Torque to 170 in. lbs.

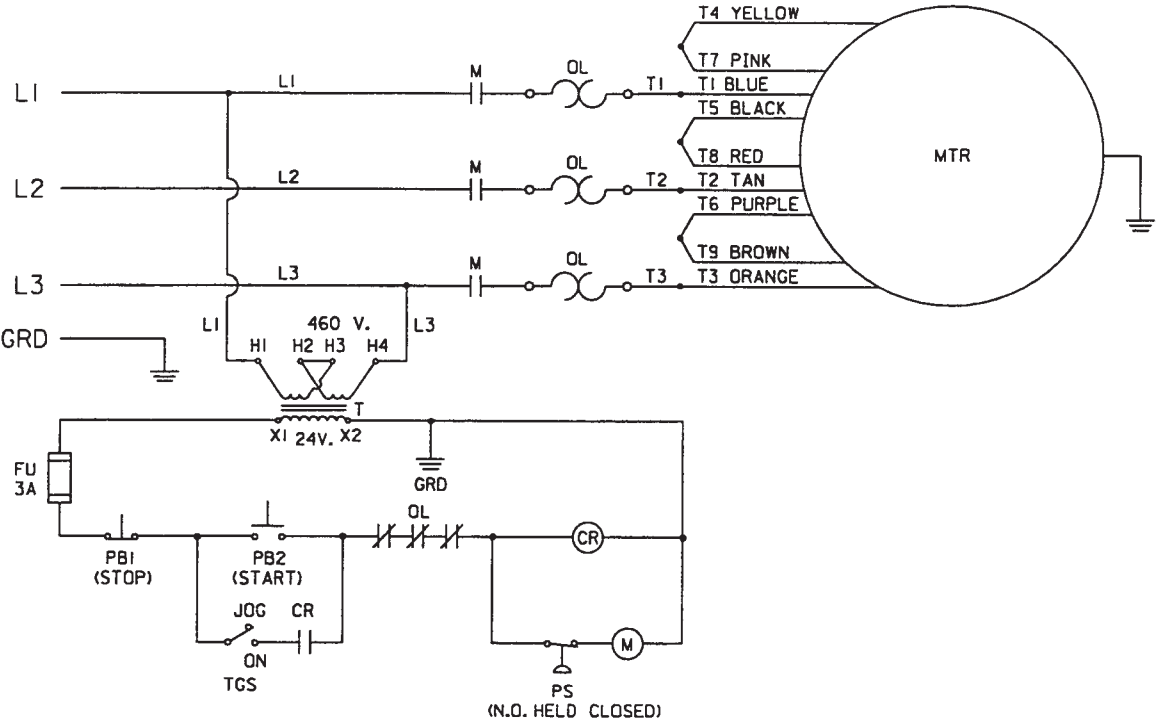
MOTOR CONTROL ASSEMBLY FOR 100155
460 Volt, 60 HZ., Three Phase



Item No.	Part No.	Qty. Req'd	Description	Item No.	Part No.	No. Req'd	Description
1	39092	1	Relay	15	216669	3	Hole Plug
2	10159	2	Rd. Hd. Machine Screw (#6-32 UNC x 5/16 Lg.)	16	250150	1	Fuse Decal
3	205420	1	Screw Connector	17	11426	4	Rd. Hd. Machine Screw (#6 x 1/2 Lg.)
4	104484	1	Hex. Hd. Machine Screw - Slotted (10-24 x 3/4 Lg.)	18	10195	4	Hex. Nut (#6-32)
5	11108	11	Washer (#10 External Tooth)	19	420073	1	Contactora
6	10197	3	Hex. Nut (10-24)	20	205189	1	Decal (Ground)
7	10164	4	Rd. Hd. Machine Screw (10-24 x 3/8 Lg.)	21	250001	1	Motor Control Box
8	11410	1	Transformer	22	216670	1	Washer (Toggle Switch)
9	350161	1	Overload Relay (1.6 - 2.5 AMPS)	23	12301	1	Toggle Switch
10	17113	.1 ft.	Heat Shrink Tubing (Black)	24	352081	1	Decal (Run-Jog)
11	52203	1	Pressure Switch	25	39282	1	Pushbutton Switch (Green)
12	15565	2 ft.	Cable (16/4 SO)	26	39283	1	Pushbutton Switch (Red)
13	216667	2	90° Strain Relief	27	16887	1	Fuse Holder
14	216680	2	Conduit Locknut	28	206962	1	Fuse (3 AMP)
				29	352061	1	Switch Guard

ELECTRICAL SCHEMATIC FOR 100155

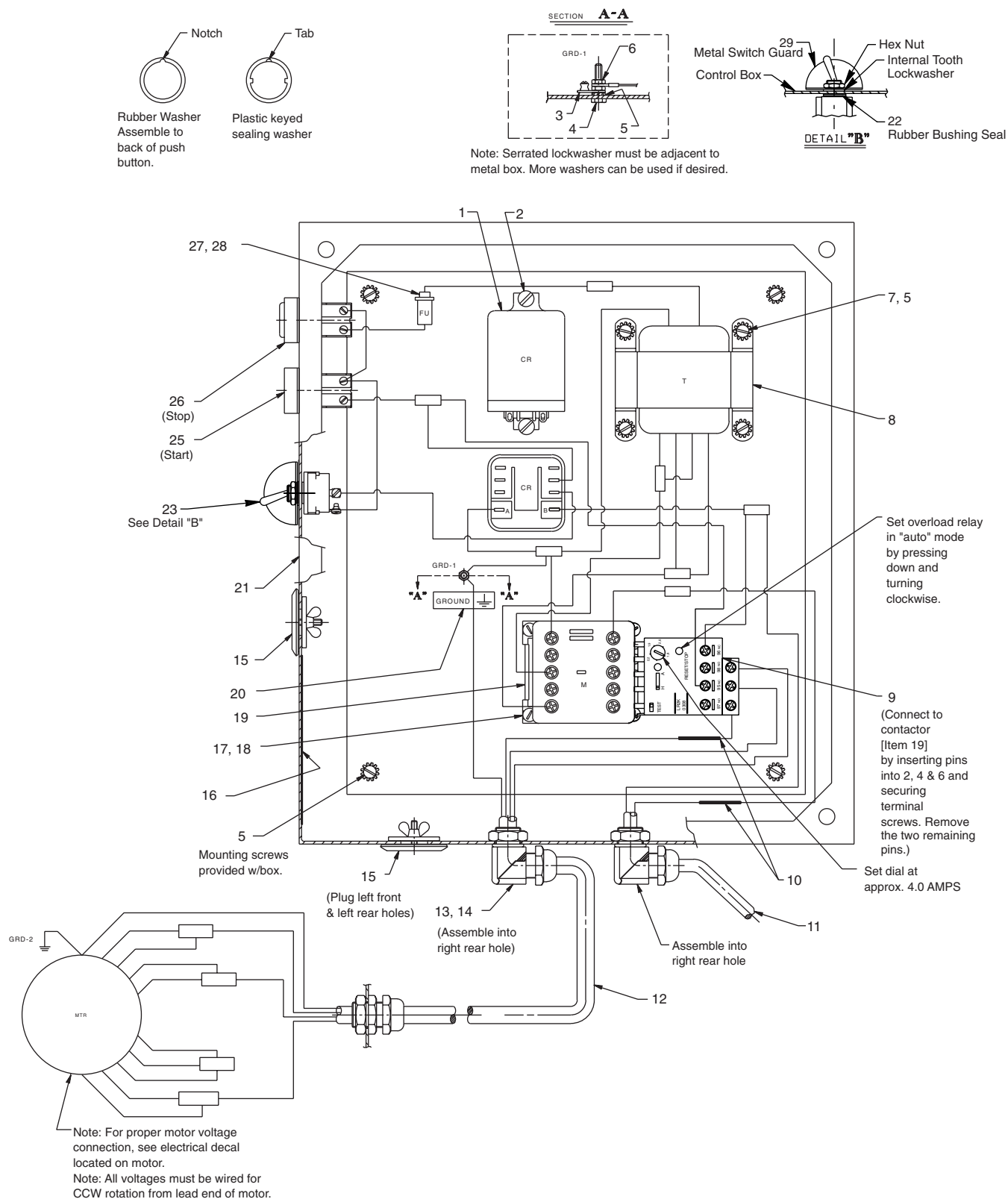
 **WARNING:** To help avoid personal injury, all electrical work must be done by a qualified electrician.



North American & International Color Codes

Conductors	North American	International
Line	Black	Brown
Neutral	White	Blue
Ground	Green	Green/Yellow

MOTOR CONTROL ASSEMBLY FOR 100155-230
230 Volt, 60 HZ., Three Phase

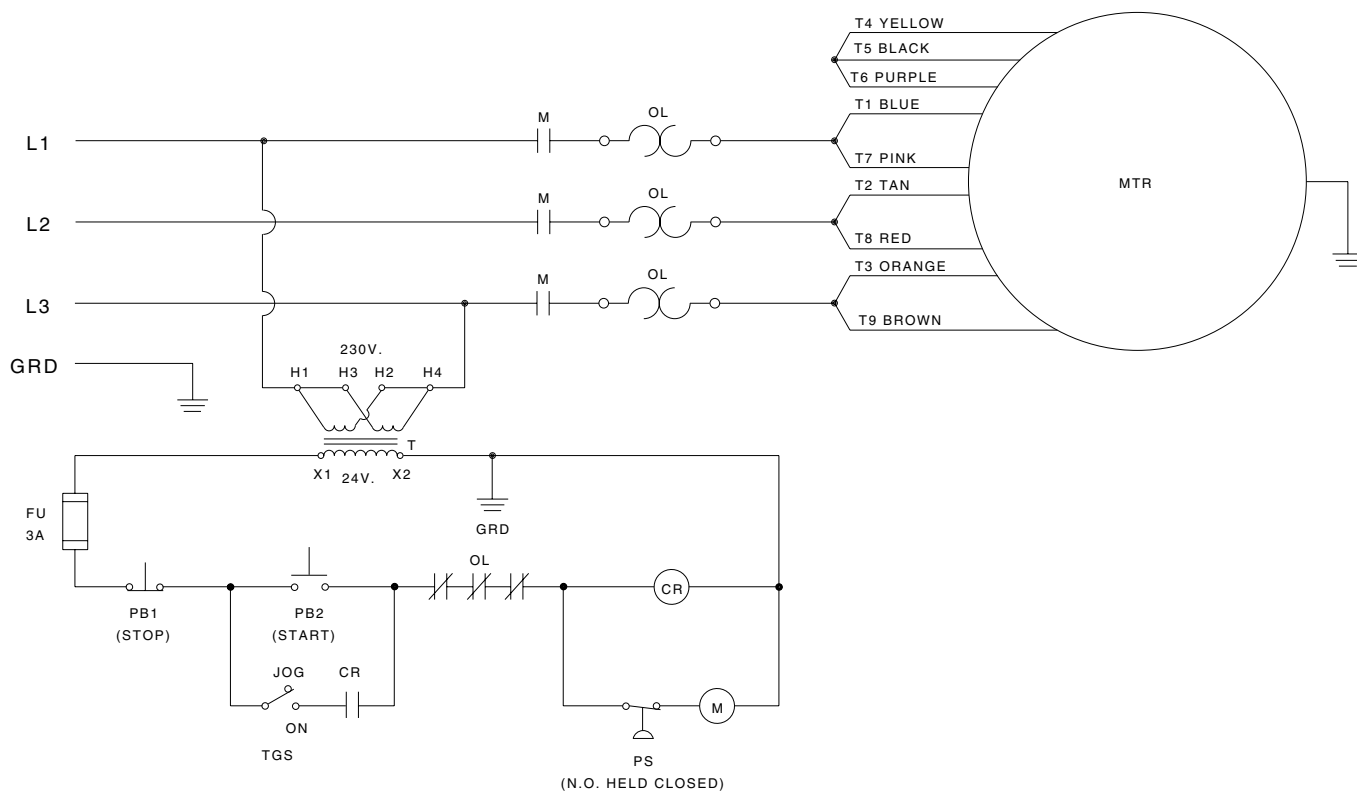


Item No.	Part No.	Qty. Req'd	Description	Item No.	Part No.	No. Req'd	Description
1	39092	1	Relay	15	216669	3	Hole Plug
2	10159	2	Rd. Hd. Machine Screw (#6-32 UNC x 5/16 Lg.)	16	250150	1	Fuse Decal
3	205420	1	Screw Connector	17	11426	4	Rd. Hd. Machine Screw (#6 x 1/2 Lg.)
4	104484	1	Hex. Hd. Machine Screw - Slotted (10-24 x 3/4 Lg.)	18	10195	4	Hex. Nut (#6-32)
5	11108	11	Washer (#10 External Tooth)	19	420073	1	Contactor
6	10197	3	Hex. Nut (10-24)	20	205189	1	Decal (Ground)
7	10164	4	Rd. Hd. Machine Screw (10-24 x 3/8 Lg.)	21	250001	1	Motor Control Box
8	11410	1	Transformer	22	216670	1	Washer (Toggle Switch)
9	350419	1	Overload Relay	23	12301	1	Toggle Switch
10	17113	.24 ft.	Heat Shrink Tubing (Black)	24	352081	1	Decal (Run-Jog)
11	52203	1	Pressure Switch	25	39282	1	Pushbutton Switch (Green)
12	15565	2 ft.	Cable (16/4 SO)	26	39283	1	Pushbutton Switch (Red)
13	216667	2	90° Strain Relief	27	16887	1	Fuse Holder
14	216680	2	Conduit Locknut	28	206962	1	Fuse (3 AMP)
				29	352061	1	Switch Guard

ELECTRICAL SCHEMATIC FOR 100155-230



WARNING: To help avoid personal injury, all electrical work must be done by a qualified electrician.



North American & International Color Codes

Conductors	North American	International
Line	Black	Brown
Neutral	White	Blue
Ground	Green	Green/Yellow

Sheet No. 7 of 7

Rev. 4

Date: 8 May 2001