

Mixing Kettles - Gas, Horizontal Agitator HMI & Potentiometer Control

Parts Manual

This manual is updated as new information and models are released. Visit our website for the latest manual

MODELS:

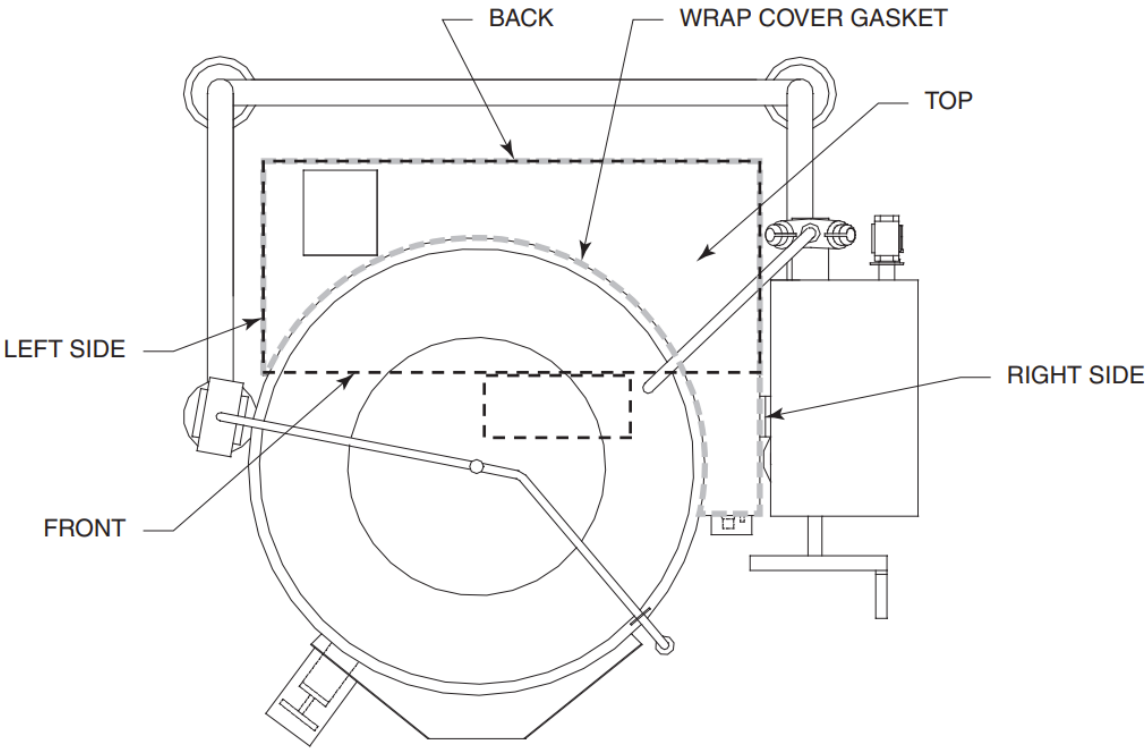
HA-MKGL-60	HA-MKGL-60-T
HA-MKGL-80	HA-MKGL-80-T
HA-MKGL-100	HA-MKGL-100-T



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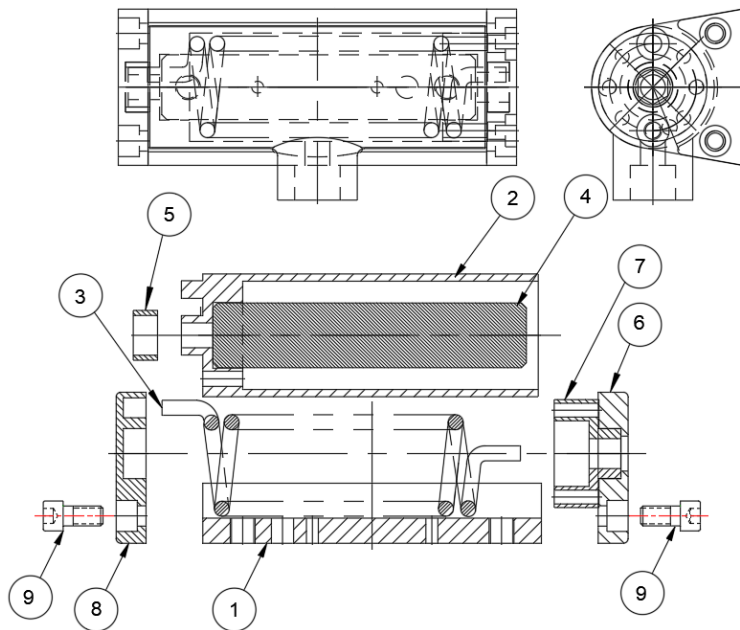
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WRAP COVERS



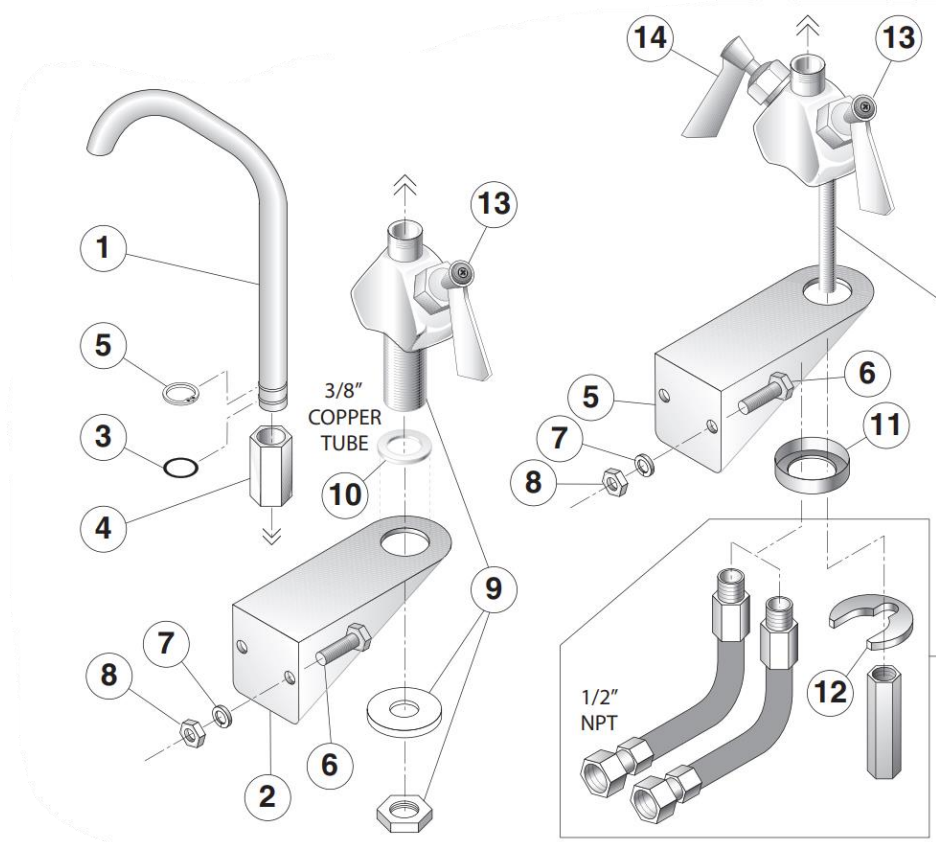
KETTLE	TOP (c/w gasket)	FRONT	LEFT SIDE	RIGHT SIDE	BACK	SERVICE WRAP COVER GASKET
HA-MKGL-60	KE01479-1	KE53483-5	KE54253-1	KE01432-1	KE02186-2	SKE54419-2
HA-MKGL-80	KE01479-2	KE53483-6	KE54253-2	KE01432-2	KE02186-2	SKE54419-3
HA-MKGL-100	KE01479-3	KE53483-7	KE54253-3	KE01432-3	KE02186-2	SKE54419-4
HA-MKGL-60-T	KE01479-1	KE53483-1	KE54253-1	KE01432-1	KE02186-2	SKE54419-2
HA-MKGL-80-T	KE01479-2	KE53483-2	KE54253-2	KE01432-2	KE02186-2	SKE54419-3
HA-MKGL-100-T	KE01479-3	KE53483-7	KE54253-3	KE01432-3	KE02186-2	SKE54419-4

HINGE ASSEMBLY (KE00597-2)



ITEM	PART#	DESCRIPTION	QTY.
1	KE50822	HINGE BASE; CHS	1
2	KE51217	HINGE CYLINDER	1
3	KE50121-1	HINGE SPRING; HEAVY (0.187/12 COILS)	1
	KE50121-2	HINGE SPRING; LIGHT (0.162/16 COILS)	-
	KE50121-3	HINGE SPRING; HEAVY (0.187/12 COILS) LH	-
4	KE50823-1	HINGE PIN; LIGHT SPRING	-
	KE50823-2	HINGE PIN MODIFIED; HEAVY SPRING	1
5	KE50824	HINGE BEARING; MODIFIED	1
6	KE50819	HINGE END PIECE; RHS	1
7	KE50820	HINGE END PIECE; CHS	1
8	KE50819-1	HINGE END PIECE; LHS	1
	KE50819-2	HINGE END PIECE; LHS MODIFIED (TO 100 DEGREE)	-
9	FA11284	SCREW; 1/4-20 X 1/2" HEX SOCKET	4
10	KE50819-3	HINGE END PIECE; LHS	-

FAUCETS

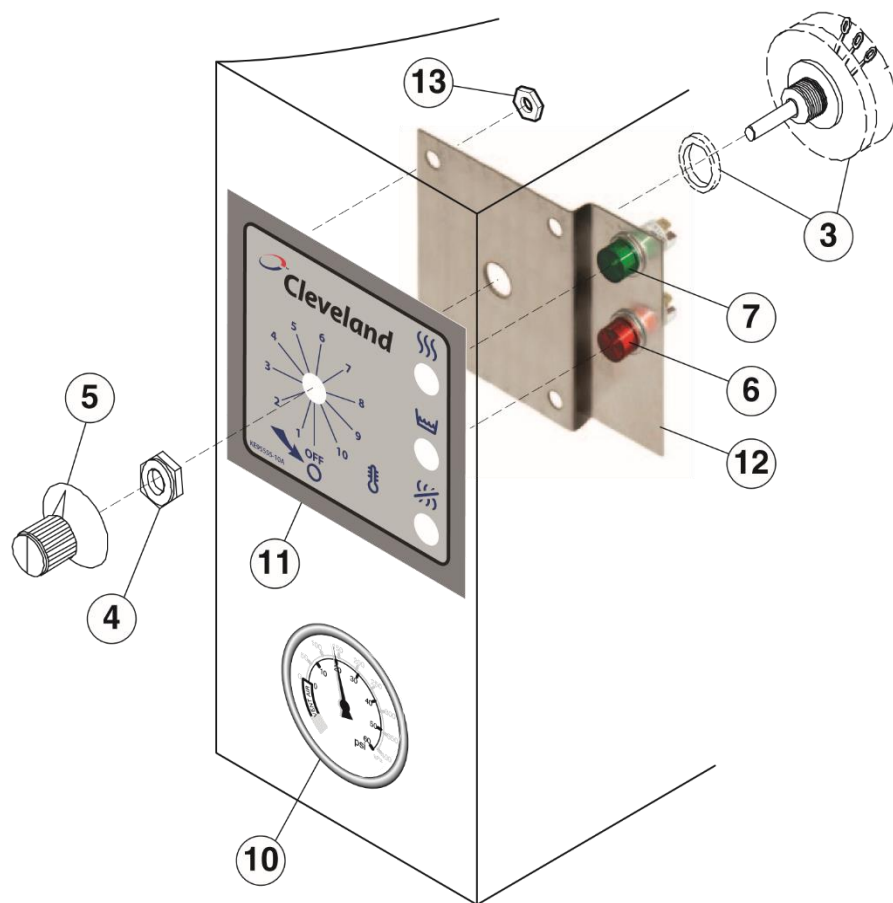


ITEM	PART #	DESCRIPTION	QTY
	SPK	SINGLE PANTRY FAUCET KIT , (includes items 1-10) see next page for ordering information	
	DPK	DOUBLE PANTRY FAUCET KIT , (includes items 1-8 & 11) see next page for ordering information	
1	KE50825	SPOUT , see next page for ordering information	
2	-	FAUCET MOUNTING BRACKET , see next page for ordering information	1
3	FA05002-19	"O" RING	1
4	KE51736	LONG FAUCET RING	1
5	FA95007-10	RETAINING RING	2
6	FA11258	HEX CAP SCREW	2
7	FA31029	LOCK WASHER	2
8	FA21008	HEX NUT	1
9	KE51401	SINGLE PANTRY BODY (c/w item 13)	1
10	KE50335	ADAPTOR WASHER	1
11	KE51403	DOUBLE PANTRY BODY (c/w item 13 & 14)	1
12	KE50447	REPLACEMENT HORSESHOE WASHER	1

FAUCETS

MODELS			
	FAUCET KIT	BRACKET	SPOUT
HAMKGL60/80/100T	SPK11 DPK11	KE54159	KE50825-11
HAMKGL60/80/100	DPK17 SKP17	N/A	KE50825-12

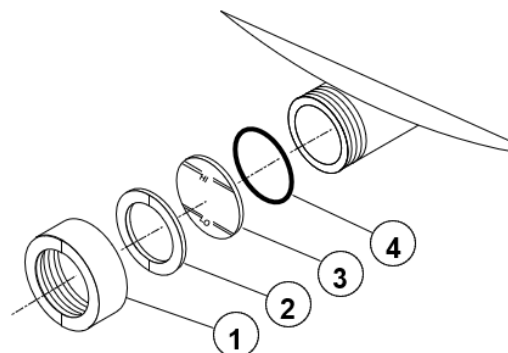
KETTLE CONTROLS - POTENTIOMETER



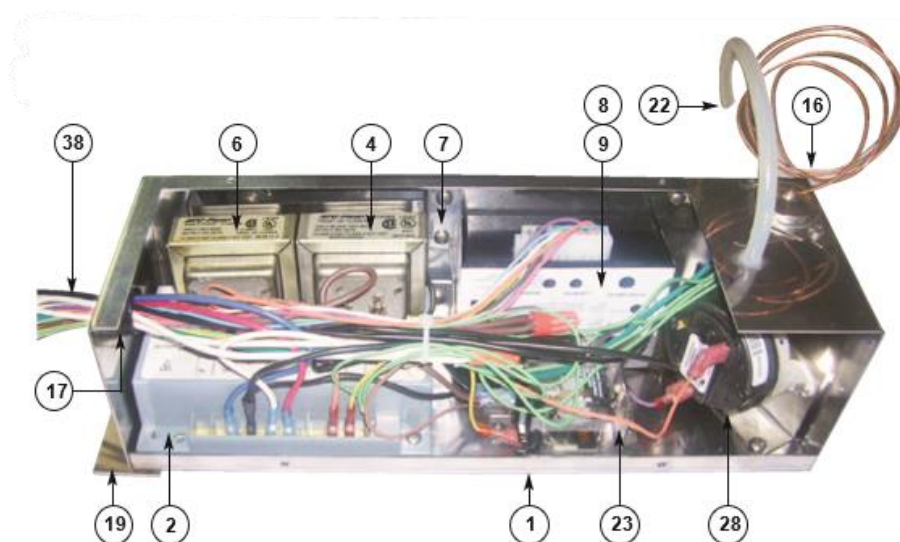
ITEM	PART #	DESCRIPTION	QTY.
3	SE00114	POTENTIOMETER WITH ON/OFF SWITCH, C/W ITEM #4	1
4	KE51005	RUBBER BOOT	1
5	KE50569-1	KNOB, POTENTIOMETER	1
6	KE55486-2	INDICATOR LIGHT, RED	1
7	KE55486-3	INDICATOR LIGHT, GREEN	1
10	KE50429-6	PRESSURE GAUGE	1
11	KE95555-10	LABEL	1
12	KE603836	BRACKET, LIGHT	1
13	FA21006	#10-24, HEX NUT, S.S.	4

SIGHT GLASS

ITEM	PART #	DESCRIPTION	QTY.
1	KE50955	RETAINING COVER	1
2	KE52871	GASKET	1
3	KE51053	SIGHT GLASS	1
4	FA05002-30	"O" RING	1



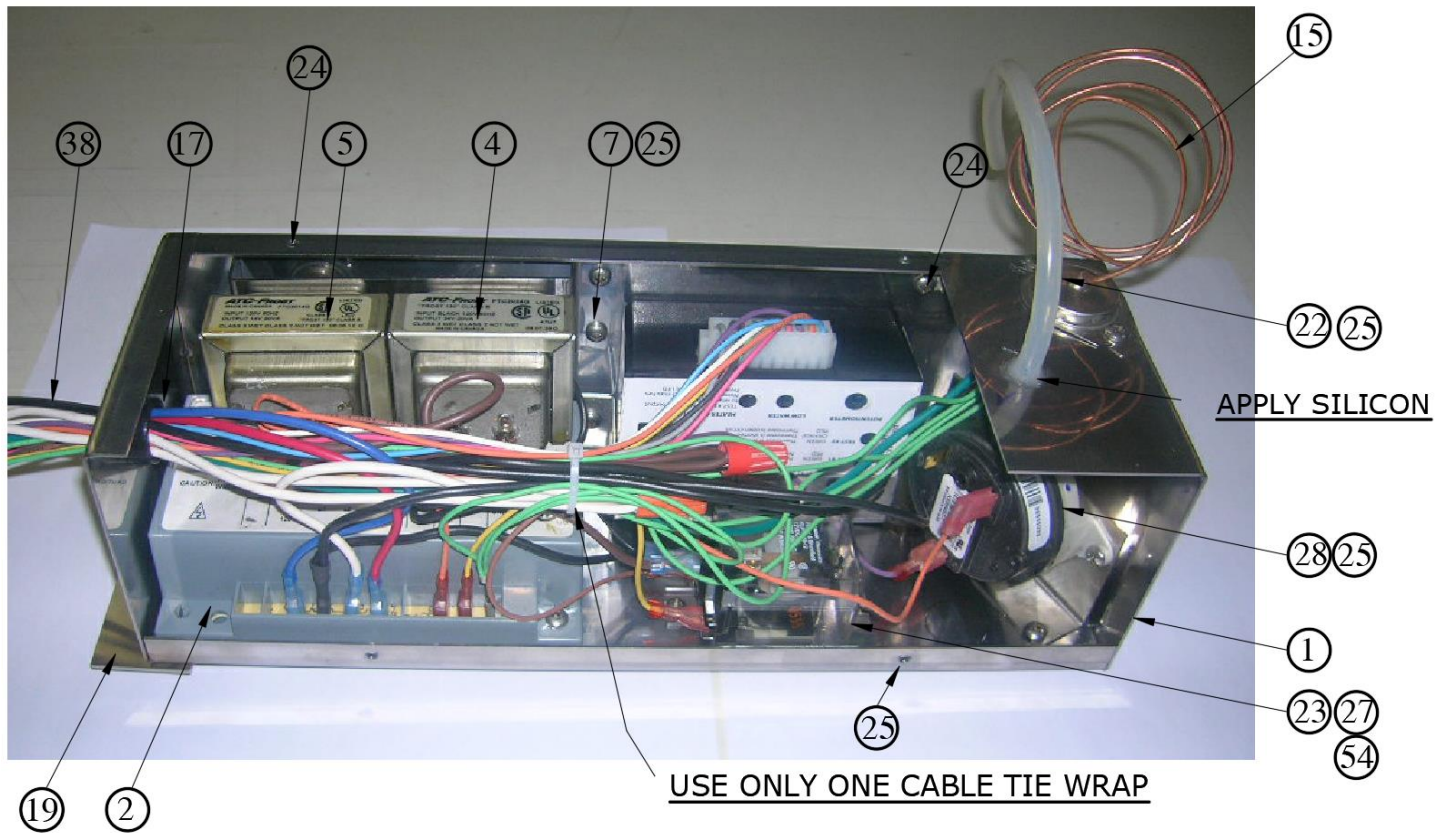
ELECTRICAL COMPONENT BOX - 120 VOLT UNITS - POTENTIOMETER (KE01422)



ITEM	PART#	DESCRIPTION	QTY.
1	KE003654	COMPONENT BOX WELDMENT; KGL/-T	1
2	KE53469-5	IGNITION CONTROL; KGL/T (CSA/CE/AGA APPROVED)	1
4	KE53838-20	TRANSFORMER;120 V PRIMARY/24 V SECONDARY,60HZ, 20 VA	1
6	KE53838-27	TRANSFORMER;120 V PRIMARY/14 V SECONDARY,60HZ, 20 VA	1
7	KE603765	TRANSFORMER BRACKET	1
8	KE00458-1	KETTLE CONTROL BOX	1
9	KE50303-1	ELECTRONIC BOX HOLDER	1
*10	KE53599-1	GASKET; KGL/KGL-T	1
16	KE55069-6	THERMOSTAT;SAFETY(KGT/KGL)	1
	KE55069-9	SAFETY THERMOSTAT; (KGT/KGL-4000 & UP, KEL-3000 & UP)	1
17	KE54833-3	SNAP-IN BUSHING; 0.875 DIA.	1
*18	KE53440	COVER; COMPONENT BOX (KGL/-T)	1
19	KE53620	BRACKET FOR COMPONENT BOX	1
22	KE55501-1	TUBE; AIR SWITCH	1
23	KE50753-7	RELAY; SPDT/10A/12VDC #MJN1CF-DC12	1
*24	FA15018-4	SCREW; PHILIPS 8-32X3/8"L	4
*25	FA15018-3	SCREW; PHILIPS 8-32X1/4"L	6
*26	FA10243	SCREW; SLOT 8-32X3/4"L	2
*27	FA15018-7	SCREW; PHILIPS 6-32X1/4"L	2
28	KE02400-1	AIR PRESSURE SWITCH ASSEMBLY; DOMESTIC AND CE	1
*29	KE54662-1	HEAT SHRINKABLE TUBING; 3/126 ID 12" LONG	1
*30	KE54661-2	VARFLO SLEEVING 12" LONG	1
*31	NPN00163	CONNECTOR; MARR NO. 2	1
*32	KE54668-1	TERMINAL; FULLY INSULATED AMP#2-520181-2 OR 182-2	2
*33	KE50988-1	POTENTIOMETER; C/W ON/OFF SW REV LOG TAPER	1
*34	KE50567-1	LIGHT; RED-WATER INDICATOR #249-7867-3331-504	1
*35	KE50567-3	LIGHT; GREEN-HEAT INDICATOR #249-7967-3332-504	1
*36	KE51005	ROTARY SEAL; #N9030 X ¼ (AMP-HEXSEAL)	1
*37	KE52412	CONNECTOR; MARR NO. 1	2
38	WHKGLT	WIRING HARNESS; KGL40-100	1

*Items no shown for clarity

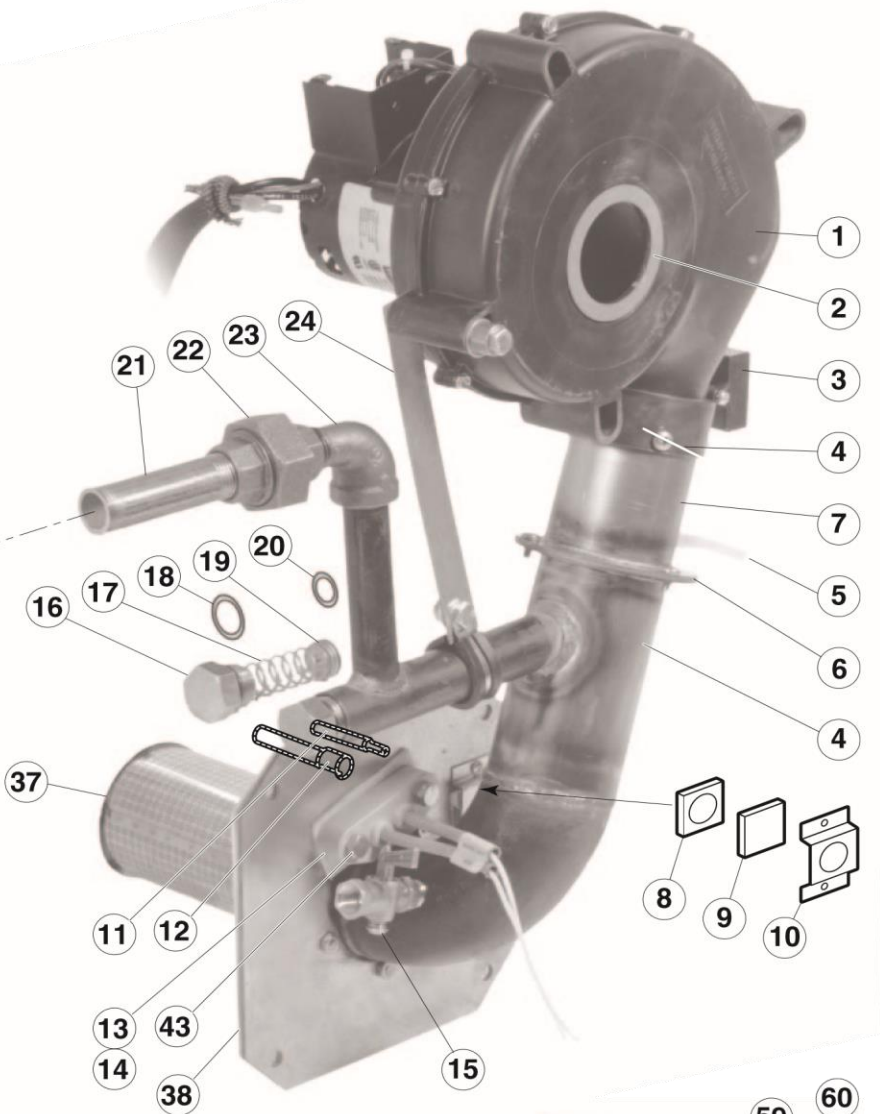
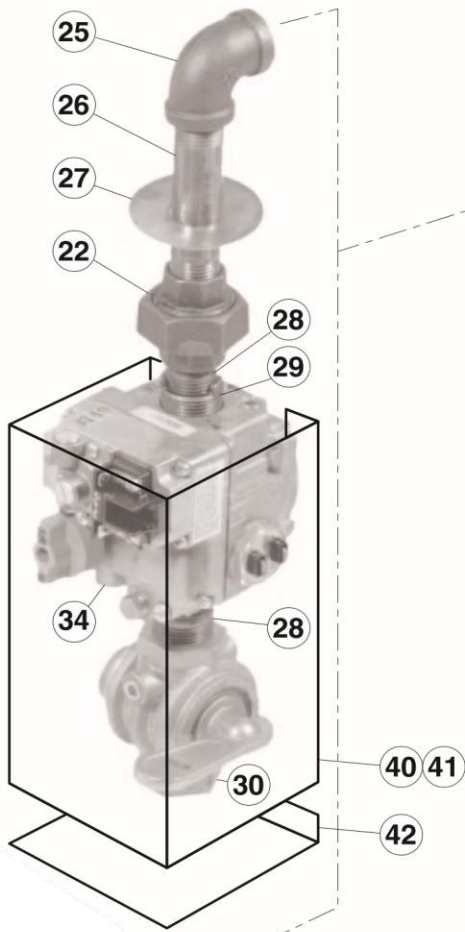
ELECTRICAL COMPONENT BOX - 120 VOLT UNITS – HMI



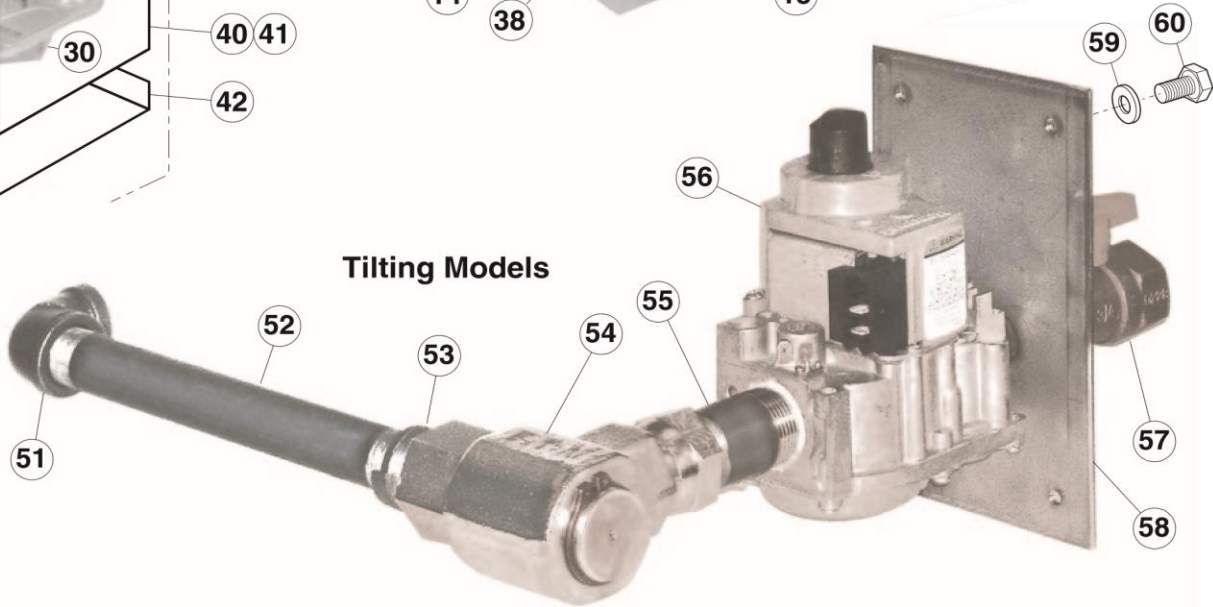
ITEM	PART #	DESCRIPTION	QTY.
1	KE003654	COMPONENT BOX WELDMENT; KGL/T	1
2	KE53469-5	IGNITION CONTROL; KGL/T (CSA/CE/AGA APPROVED)	1
4	KE53838-20	TRANSFORMER; 120 V PRIMARY/24 V SECONDARY, 60HZ, 20 VA	1
5	KE53838-25	TRANSFORMER; 120 V PRIMARY/24 V SECONDARY, 60HZ, 40 VA	1
7	KE603765	TRANSFORMER BRACKET	1
15	KE55008-9	SAFETY THERMOSTAT; (KGT/KGL-4000 & UP, KEL-3000 & UP)	1
17	KE54833-3	SNAP-IN BUSHING; 0.875 DIA.	1
19	KE53620	BRACKET FOR COMPONENT BOX	1
22	KE55501-1	TUBE; AIR SWITCH	1
23	SK2475500	RELAY; DPDT/24V/240AC IDEC#RH2B-U-AC24V	1
24	FA51008-4	SCREW; PHILIPS 8-32X3/8"L	1
25	FA51018-3	SCREW; PHILIPS 8-32X1/4"L	1
27	FA51018-7	SCREW; PHILIPS 6-32X1/4"L	1
28	KE02400-1	AIR PRESSURE SWITCH ASSEMBLY; DOMESTIC AND CE	1
38	WHKGLT	WIRING HARNESS; KGL40-100	1
54	SK2475700	CLIP; RELAY, P&B #20C297	1

GAS CONTROL ASSEMBLY

Stationary Models



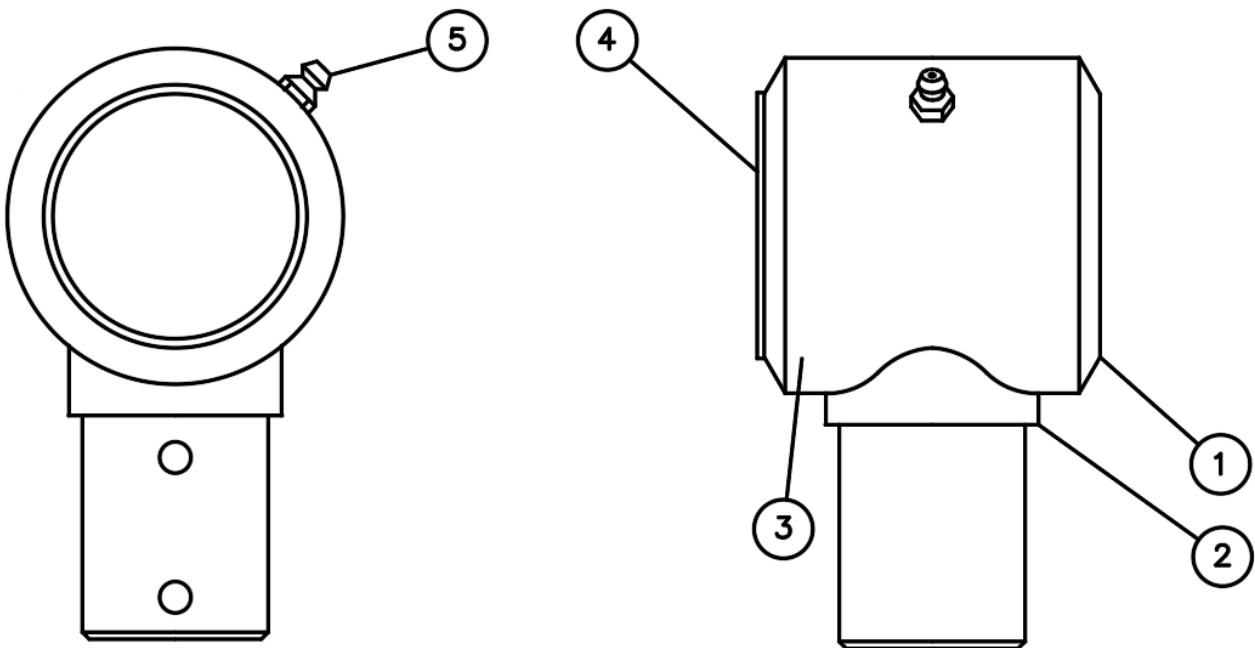
Tilting Models



GAS CONTROL ASSEMBLY

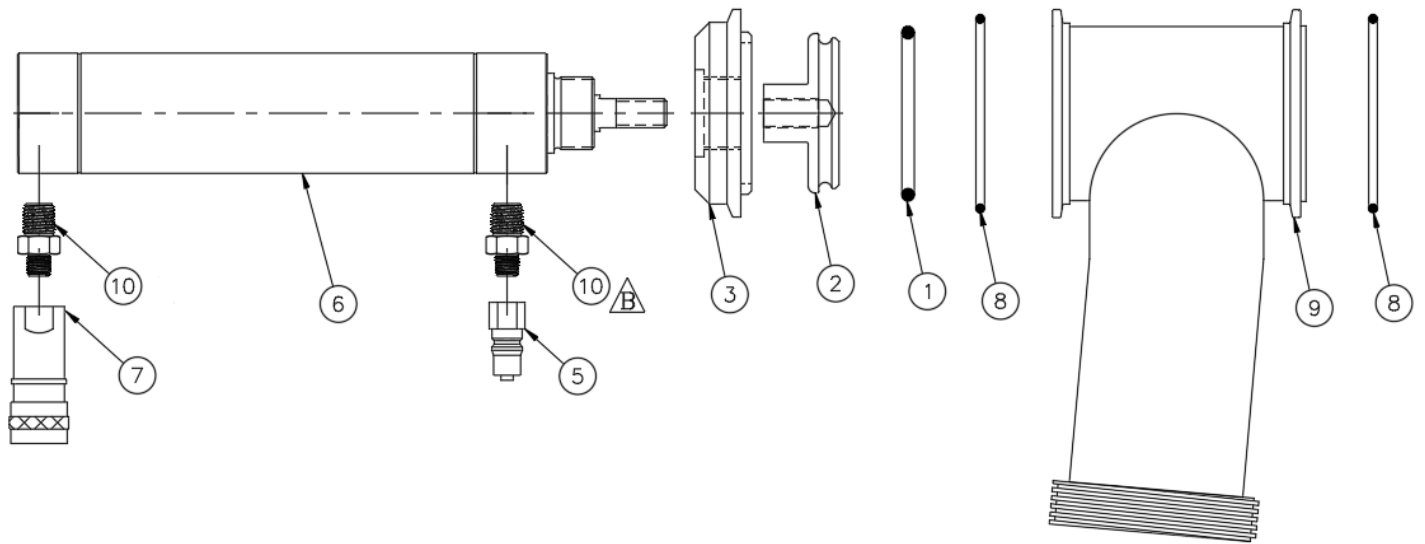
ITEM	PART #	DESCRIPTION	QTY.
1	KE53441	BLOWER, 115V, 60 HZ	1
	KE53441-1	BLOWER, 220V, 50 HZ	1
2	KE54420	AIR INTAKE WASHER (NATURAL GAS, 50hz)	1
	KE54420-1	AIR INTAKE WASHER (PROPANE, 50hz)	1
3	KE54239	CAPACITOR	1
4	KE01426-4	MIXING CHAMBER, 40 GALLON KETTLES	1
	KE01426-1	MIXING CHAMBER, 60 GALLON KETTLES	1
	KE01426-2	MIXING CHAMBER, 80 GALLON KETTLES	1
	KE01426-3	MIXING CHAMBER, 100 GALLON KETTLES	1
5	KE53582	TUBING 1/4 INCH SILICONE	1
	FI05156	HOSE FITTING	1
6	KE53402-4	AIR ORIFICE, 40 GALLON KETTLES (60hz)	1
	KE53402-1	AIR ORIFICE, 60 - 100 GALLON KETTLES (60hz)	1
	KE53402-2	AIR ORIFICE, 40 GALLON KETTLES (50 HZ BLOWER)	1
	KE53402-3	AIR ORIFICE, 60 - 100 GALLON KETTLES (50 HZ BLOWER)	1
7	KE01449	BLOWER MOUNTING PIPE ASSEMBLY	1
8	KE53618	SIGHT GLASS GASKET	1
9	KE53617	SIGHT GLASS	1
10	KE53619	SIGHT GLASS RETAINER	1
11	KE00515	THERMISTOR	1
12	KE50556-2	WATER LEVEL PROBE	1
13	KE53437-3	IGNITOR	1
14	KE53570	GASKET FOR IGNITOR	1
15	FI05257	SHUT-OFF COCK	1
16	FI05213	PLUG, C/W O-RING	1
17	KE53422	SPRING	1
19		CONSULT FACTORY FOR PROPER ORIFICE	1
18	FA05002-4	"O" RING	1
20	FA05002-29	"O" RING	1
21	N0440C5	NIPPLE, 1/2" NPT, 5 5/16" LONG	1
22	FI00073	UNION, 1/2"	1
23	FI00133	ELBOW, 1/2", STREET	1
24	KE53909	STRIP, TO HOLD BLOWER DOWN	1
25	FI00040-1	ELBOW, 1/2"	1
26	N0440C4	NIPPLE, 1/2" NPT, 4" LONG, KGL-60-T	1
	N0440C3-875	NIPPLE, 1/2" NPT, 4" LONG, KGL-80-T	1
27	KE55004-3	RETAINING PLATE	1
28	N0640C2	NIPPLE, 1/2" NPT, 2" LONG	1
29	FI05231	BUSHING, 3/4" - 1/2" NPT	1
30	F01518-1	GAS SHUT-OFF VALVE, 3/4" (NOT FOR FRENCH CE KETTLES)	1
34	KE55240R	GAS VALVE ASSEMBLY	1
37	KE01500-5	BURNER, 40 GALLON KETTLES, 140,000 BTU	1
	KE01500-1	BURNER, 60-100 GALLON KETTLES, 190,000 BTU	1
38	KE53397	GASKET, BURNER	1
40	KE601085	COVER FOR GAS VALVE	1
41	RB018151	GASKET FOR COVER	1
42	KE601081	BRACKET	1
43	FA15005	BOLT	1
51	FI00040-1	ELBOW, 1/2"	2
52	N0440C8	NIPPLE, 1/2" NPT, 8" LONG	1
53	FI05231	ADAPTOR	1
54	FI05222	SWIVEL ELBOW	1
55	FI05223-6	SPECIAL NIPPLE	1
56	KE55240R	GAS VALVE ASSEMBLY	1
57	F01518-1	GAS SHUT-OFF VALVE, 3/4"	1
58	KE000960	NIPPLE PLATE WELDMENT	1
59	FA30505-1	WASHER, 1/4"	4
60	FA11256	HEX BOLT, 1/4-20 X 1/2, 18-8 SS	4

TRUNNION HOUSING – TILTING KETTLES (KE02112)



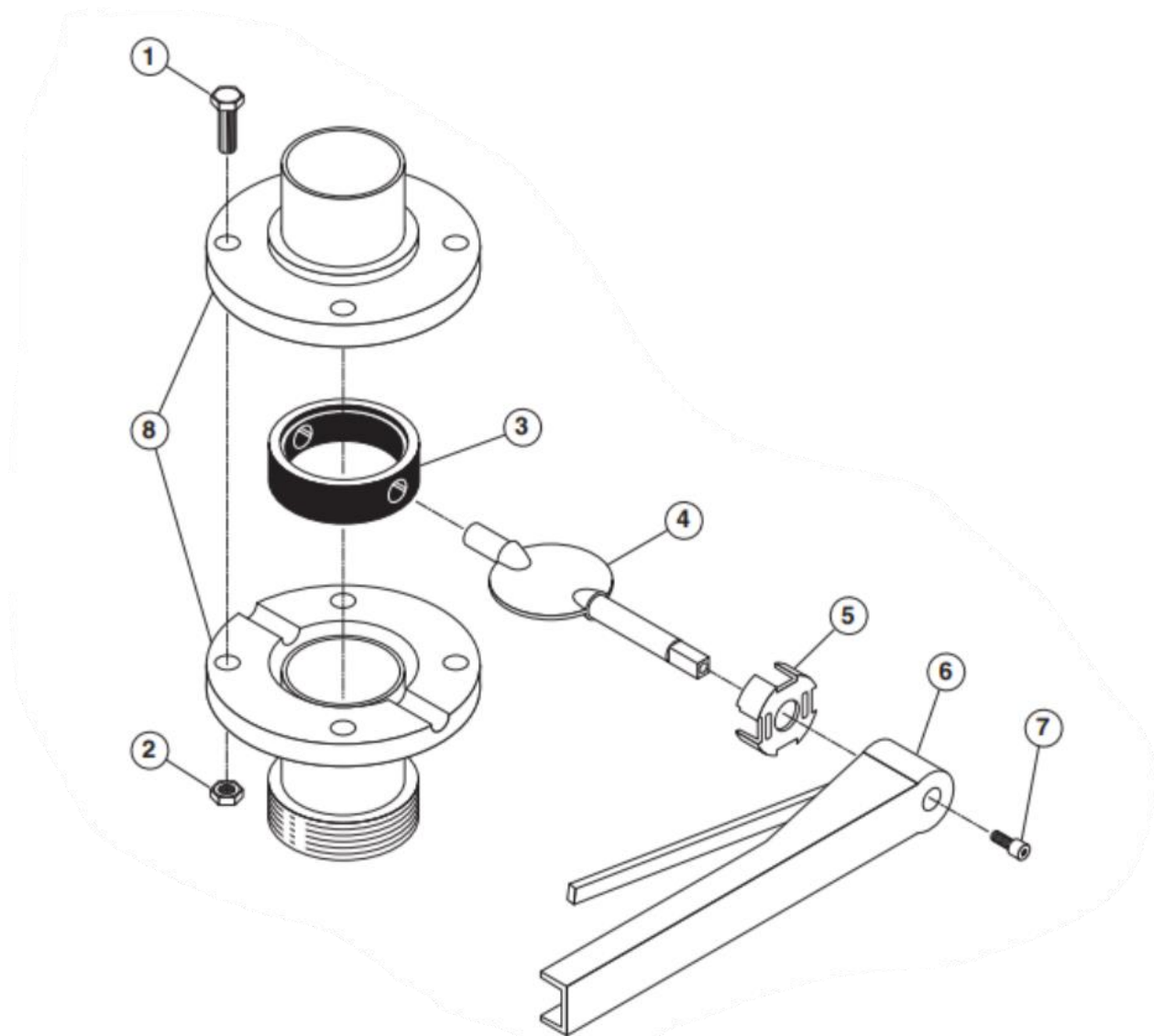
ITEM	PART #	DESCRIPTION	QTY.
TRUNNION BEARING ASSEMBLIES (INCLUDES PART # 3, 4 & 6)			
1	KE54823-1	TRUNNION HOUSING	1
2	KE54824-1	TRUNNION HOUSING SUPPORT	1
3	KE517111	NEEDLE ROLLER BEARING	2
4	KE51571-2	BEARING HOUSING WASHER	1
5	KE51886	GREASE FITTING	1

FLUSH PISTON VALVE – FPVA - 3 (KE02291-1)



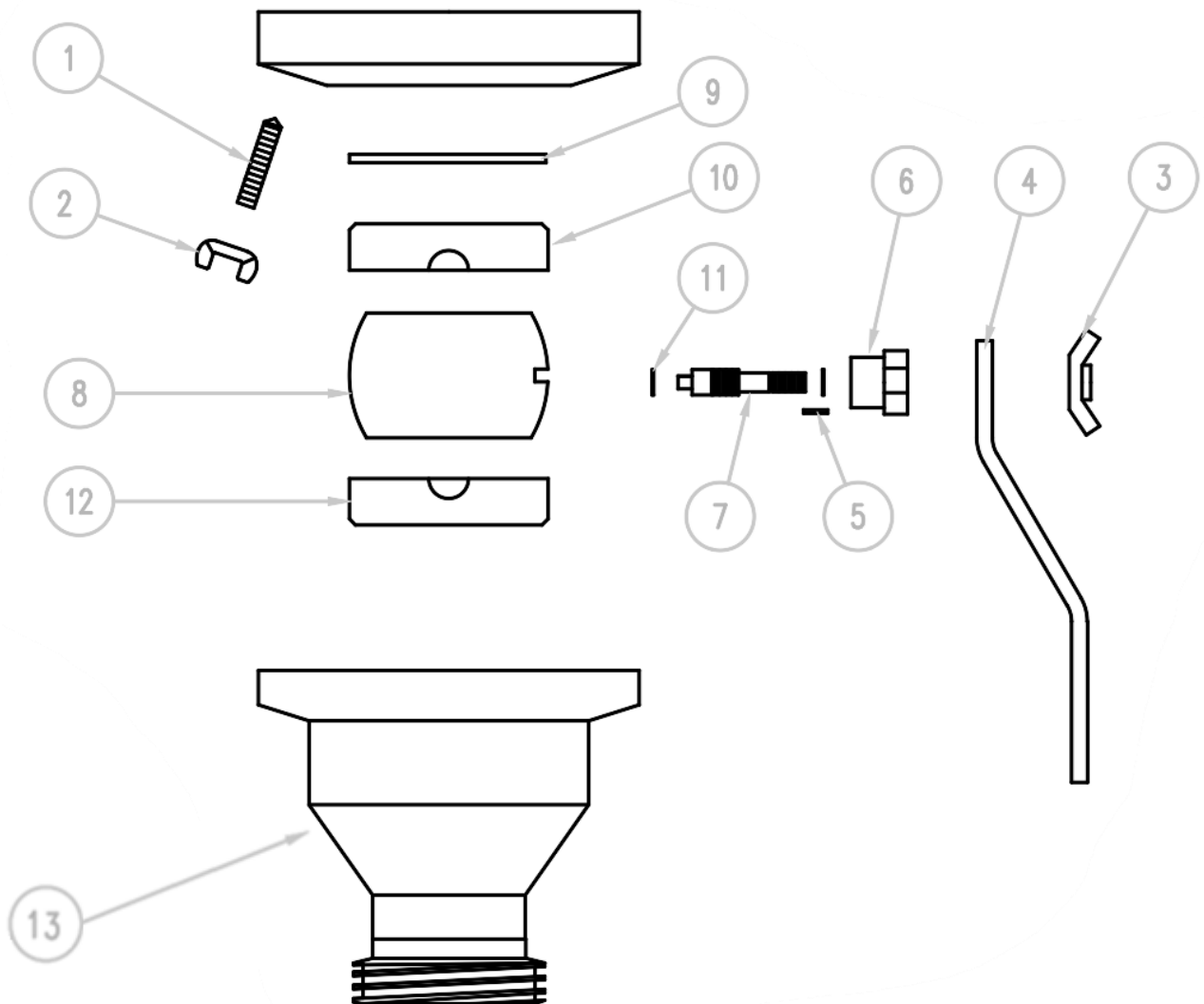
ITEM	PART #	DESCRIPTION	QTY.
1	FA05002-51	FDA BUNA N O-RING	1
2	KE55249-1	PLUNGER HEAD	1
3	KE603962	AIR CYLINDER MOUNT	1
5	KE55257	1/8 NPT BRASS QUICK DISCONNECT COUPLING (MALE HALF)	1
6	KE55253-1	AIR OPERATED CYLINDER	1
7	KE55262	1/8 NPT BRASS QUICK DISCONNECT COUPLING (FEMALE HALF)	1
8	FA05002-53	FDA BUNA N O-RING	2
9	KE003700	DISCHARGE TEE ASSEMBLY	1
10	KE55251-1	HEX NIPPLE (1/4 NPT TO 1/8 NPT)	2

BUTTERFLY VALVE (BV-3)



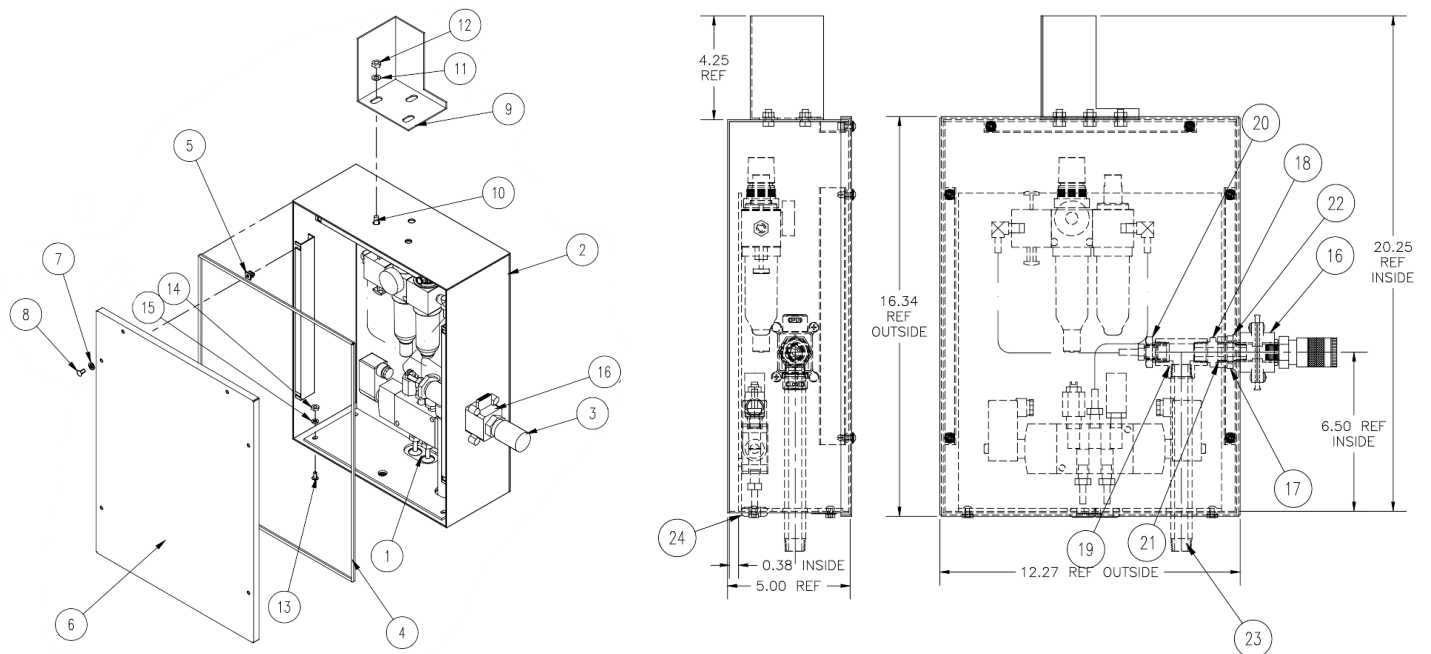
ITEM	PART #	DESCRIPTION	QTY.
1	FA11224	BOLT 5/16-18 X 1" SS	4
2	FA21024	NUT, 5/16-18	4
3	SE50433-1	SEAT 3", SILICONE	1
4	SE50434-1	STEM, 3"	1
5	SE50435-1	LOCKING SPIDER, 3"	1
6	SE50436	HANDLE ASSEMBLY	1
7	SE50437	ALLEN BOLT	1

FLUSH BALL VALVE (FBV-2)



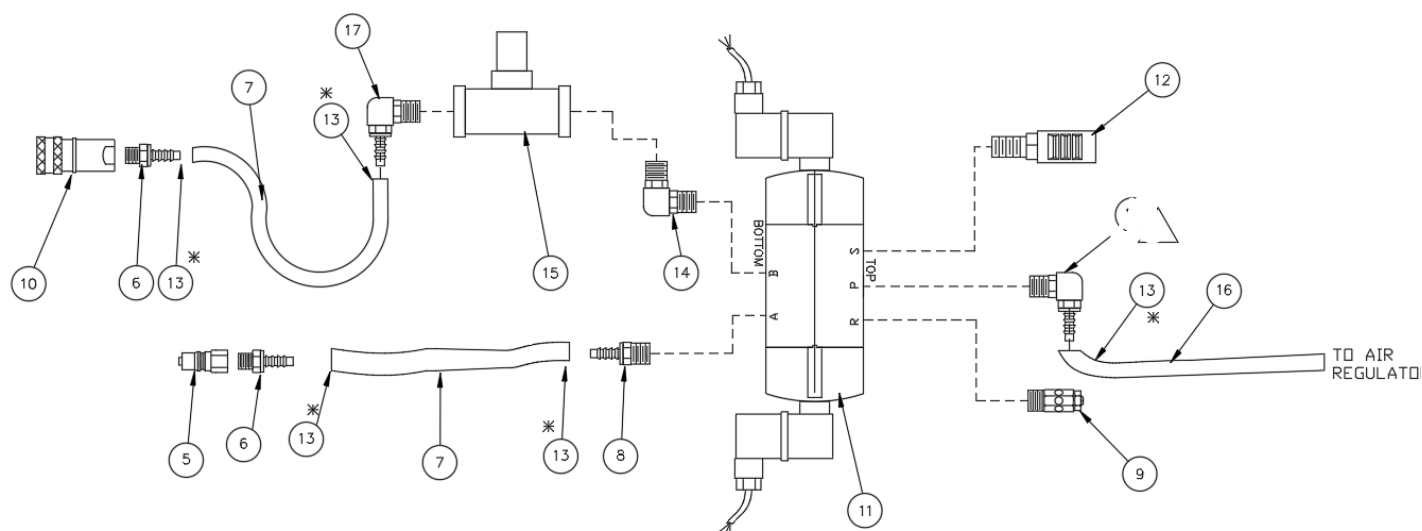
ITEM	PART #	DESCRIPTION	QTY.
1	SE50457-1	STUD	3
2	SE50457-2	WING NUT	3
3	SE50457-3	WING NUT	1
4	SE50457-4	HANDLE	1
5	SE50457-5	PIN	1
6	SE50457-6	PACKING NUT	1
7	SE50457-7	STEM	1
8	SE50457-8	BALL	1
9	SE50457-9	"O" RING	1
10	SE50457-10	SEAL, INTAKE	1
11	SE50457-11	SEAL, STEM	2
12	SE50457-12	SEAL, DISCHARGE	1
13	KE54847-1	FLUSH BALL VALVE MAIN COMPONENT	1

PNEUMATICS – STATIONARY (KE02298)



ITEM	PART #	DESCRIPTION	QTY
1	KE02296	PNEUMATIC ASSEMBLY	1
2	KE02299	PNEUMATIC BOX WELDMENT	1
3	KE601603	QUICK CONNECTOR, 3/8	1
4	KE54846-8	GASKET, U-CHANNEL	1
5	FA95074	NYLON ANCHOR NUT, #8 THREADED HOLE	6
6	KE55241	COVER, PNEUMATIC BOX	1
7	KE55242-1	SEALING WASHER, #8	6
8	FA11091	S.S. SCREW, #8-32 X 3/8, BINDING HD	6
9	KE55243	MOUNTING BRACKET, PNEUMATIC BOX	1
10	FA11255	S.S. HEX HEAD SCREW, 1/4-20 X 3/8	3
11	FA30505-9	Ø1/4 FLATWASHER S.S.	3
12	FA21008	S.S. NUT, 1/4-20	3
13	FA11134	S.S. SCREW #10-24 X 3/8, PAN HEAD	4
14	FA21006	S.S. NUT, #10-24	4
15	FA30076	FLATWASHER, #10	4
16	KE601601	SLIDE VALVE	1
17	FA30512	SPACER WASHER	1
18	KE601602	AIR FITTING	1
19	KE600814-1	TEE 1/2 NPT, BRASS, FIP X FIP X FIP	1
20	FI00351	BUSHING, REDUCER; 1/2 NPT X 1/4 NPT	1
21	KE52697	NUT, 1/2 NPS BRASS	1
22	FA32500	LOCKWASHER, INTERNAL TOOTH, Ø7/8	1
23	N0440B7-625	NIPPLE, 1/2 NPT BRASS	1
24	KE50555-3	GROMMET	2

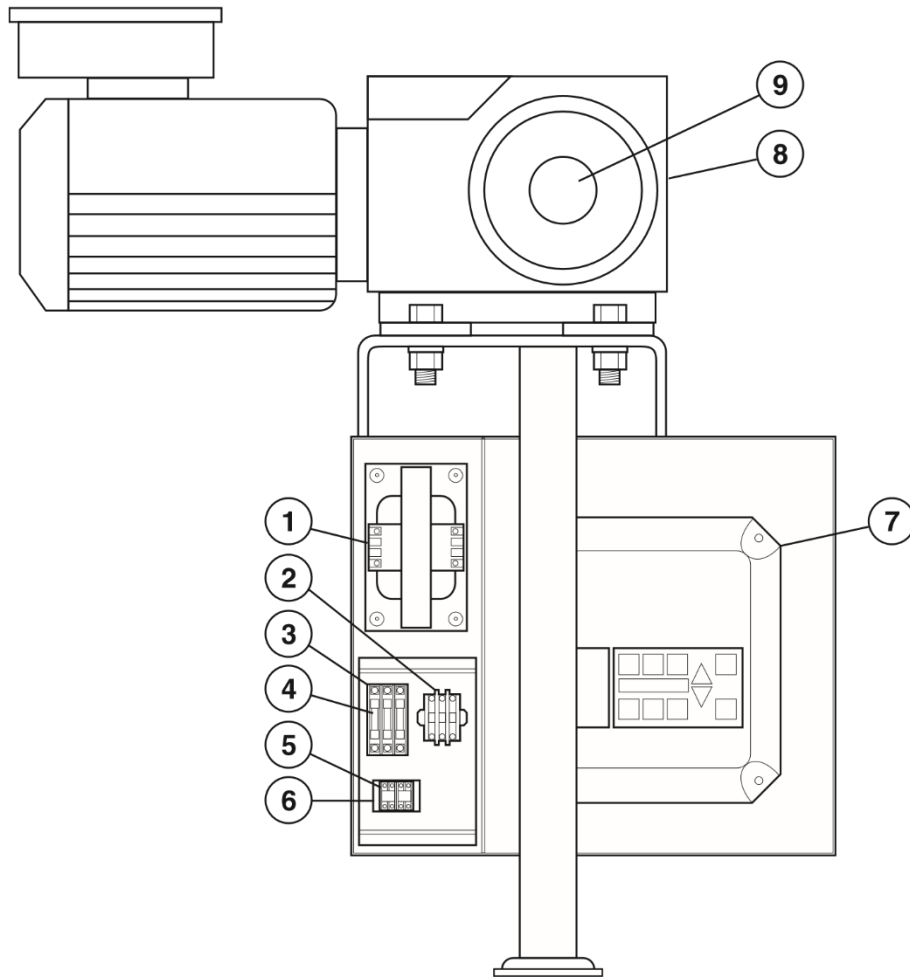
AIR SOLENOID ASSEMBLY (KE02292)



ITEM	PART #	DESCRIPTION	QTY.
5	KE55257	MALE QUICK PLUG	1
6	FI05317-1	HOSE BARB 1/8" NPT MALE TO 1/4" HOSE	2
7	KE55259-1	1/4" ID X 6 FT. LONG HOSE 250 #W.P.	2
8	FI05317-2	HOSE BARB 1/4" NPT MALE TO 1/4" HOSE	1
9	KE55261-1	SPEED EXHAUST MUFFLER 1/8"	1
10	KE55262	FEMALE QUICK PLUG	1
11	KE55263-1	5 WAY AIR SOLENOID VALVE	1
12	KE55264-1	STANDARD 1/8" MUFFLER	1
13*	FI05220-1	GEAR CLAMP FOR 1/4 I.D. HOSE (NOT SHOWN)	5
14	FI05030-2	90° 1/4 ELBOW, MALE PIPE THREAD	1
15	KE55305	1/4" FLOW CONTROL	1
16	KE55259-2	1/4" ID X 3 FT. LONG HOSE 250 #W.P.	1
17	FI05318	90° ELBOW HOSE BARB, 1/4 HOSE I.D. X 1/4 PIPE, BRASS	2

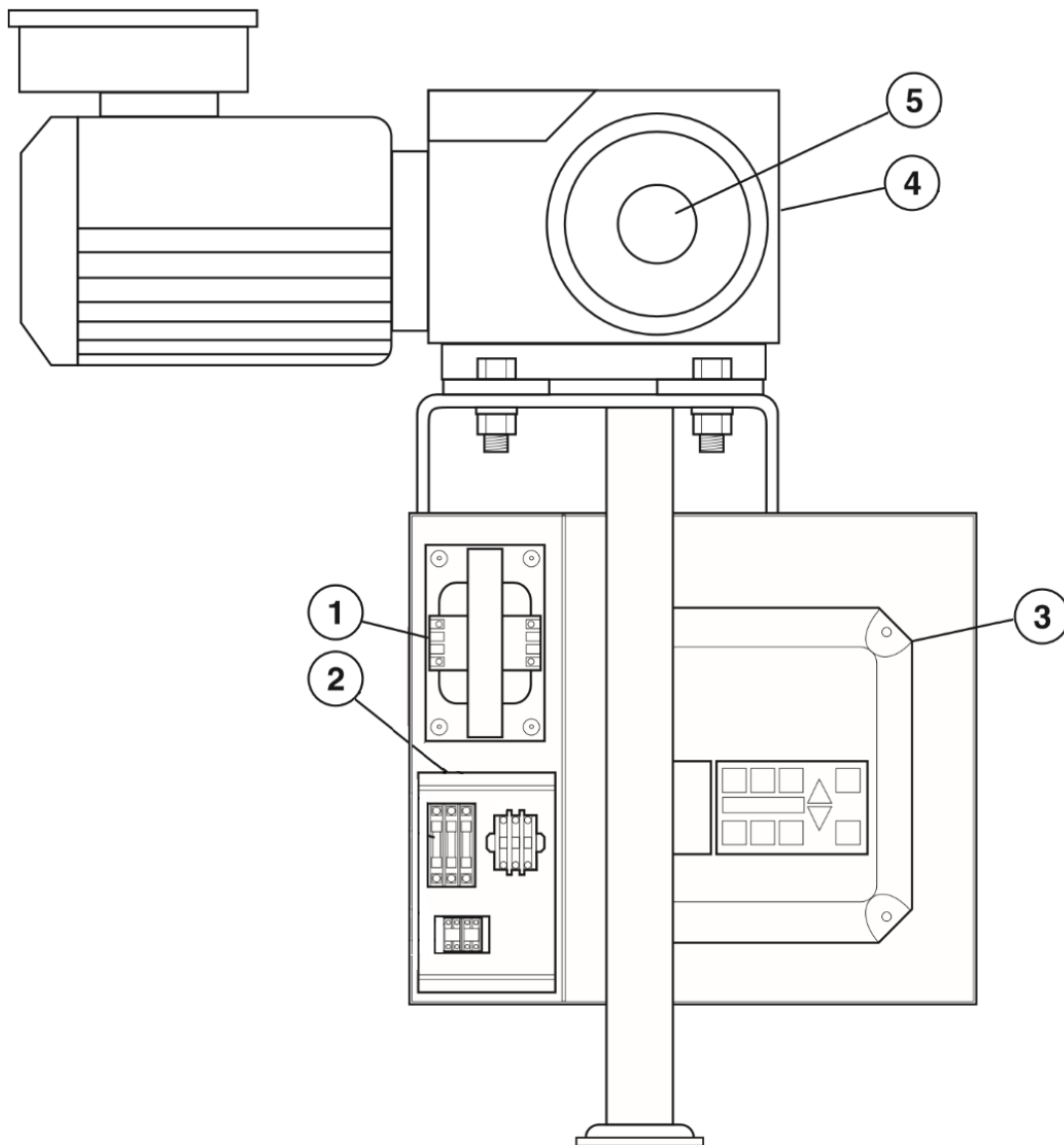
*Not Shown

GEARMOTOR – ELECTRICAL ASSEMBLY - POTENTIOMETER



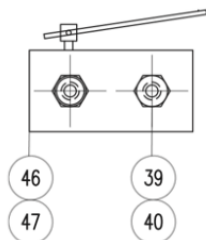
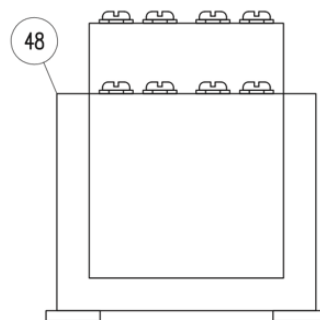
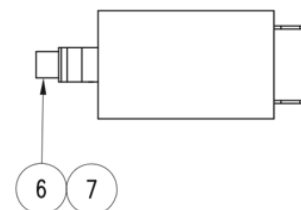
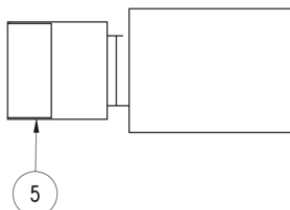
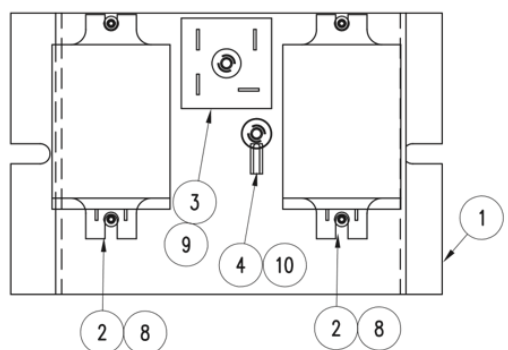
ITEM	PART #	DESCRIPTION	QTY.
1	KE53838-2	TRANSFORMER, 200-240V/440-480V	1
2	KE603902-2	CONTACTOR	1
3	KE51139-1	FUSE HOLDER	3
4	KE52936-18	15A FUSE, KLKR	3
5	PR50003	TERMINAL BLOCK	1
6	PR50005	TERMINAL BLOCK	1
7	KE54528-6	A.C. INVERTER, 230V	1
	KE54528-7	A.C. INVERTER, 460V	1
8	KE54527-1	GEAR MOTOR, 208V/60HZ	1
	KE54527-4	GEAR MOTOR, 480V/60HZ	1
9	KE54594	DRIVE SHAFT	1

GEARMOTOR – ELECTRICAL ASSEMBLY - HMI



ITEM	PART #	DESCRIPTION	QTY.
1	KE53838-2	TRANSFORMER, 200-240V/440-480V	1
2	KE01966-1 REF.pg 18	COMPONENT PLATE ASS'Y.; AGITATOR CONTROL	1
3	KE54528-1	A.C. INVERTER, 230V	1
	KE54528-2	A.C. INVERTER, 460V	1
4	KE54527-1	GEAR MOTOR, 208V/60HZ	1
	KE54527-4	GEAR MOTOR, 480V/60HZ	1
5	KE54594	DRIVE SHAFT	1

COMPONENT PLATE ASSEMBLY – POWER TILT (KE02185)

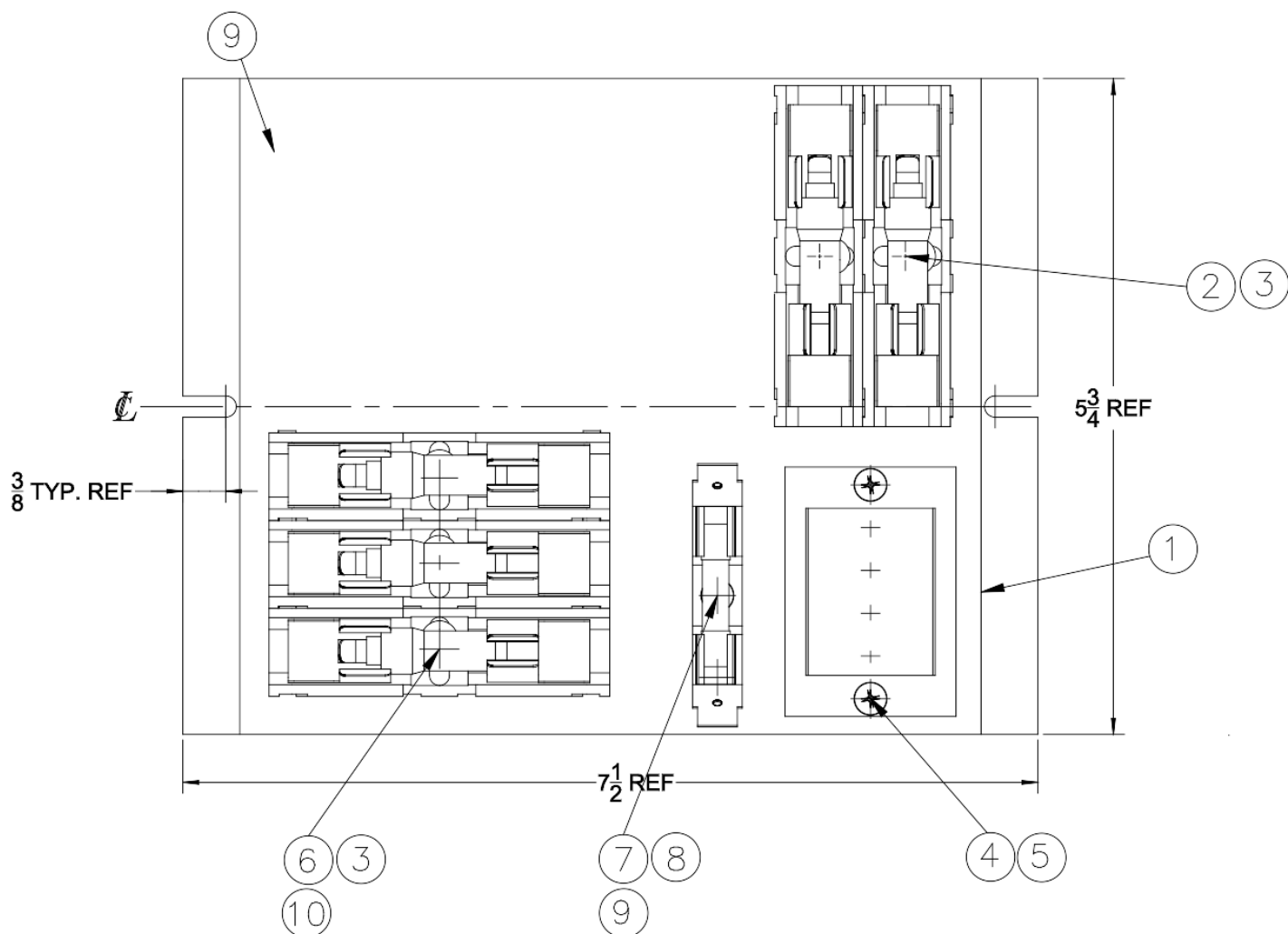


VOLTS OPTION	PART NUMBER	COMMON PARTS COMPONENT PLATE ASSY		TRANSFORMER ITEM # 48	
		PART #	QTY.	PART #	QTY.
208V	KE02185-11	KE02185-5	1	KE53838-10	1
220V- 480V	KE02185-12	KE02185-5	1	KE53838-12	1
380V	KE02185-13	KE02185-5	1	KE53838-11	1
575V	KE02185-14	KE02185-5	1	KE53838-13	1

ITEM	PART #	DESCRIPTION	QTY.
1	KE50343-16	COMPONENT PLATE	1
2	KE50753-10	RELAY, 10A/120V	2
3	KE50581	BRIDGE RECTIFIER	1
4	KE50473	GROUND LUG	1
5	KE003209-11	SWITCH, POWER TILT	1
6	KE50579-1	CIRCUIT BREAKER, 1.5A	1
7	KE50580	WATER RESISTANT BOOT	1
8	FA11051	6-32 X 3/16 PAN PHIL S.S.	4
9	FA11091	8-32 X 3/8 PAN PHIL S.S.	1
10	FA11089	8-32 X 3/8 PAN PHIL S.S.	1
*11	NPN00158	FULLY INSULATED NYLON MALPLER	3
*12	KE52289-3	#8 SPADE	4
*13	NPN00143	TERMINAL, FLAG SLIP-ON	12
*14	NPN00158-1	WIRE COUPLER	2
*15	KE52295	TERMINAL, FLAG SLIP-ON	4
*16	NPN00009	WIRE JOINT PIGTAIL	1
*17	NPN00103	FULL INSULATED PUSH ON TERMINAL	3
*18	NPN00020	CABLE TIE HOLDER	5
*19	KE51627	CABLE TIE 5 1/2"	7
*20	RB01551	BLACK SLEEVING, SIZE 2, HO, L 136"	1
39	FA20002	HEX NUT 6-32	2
40	FA11060	SCREW 6-32 X 1	2
46	KE51007	MICRO SWITCH, HONEYWELL	2
47	KE50498	MICRO SWITCH INSULATION	2
48	REF.KE53838	TRANSFORMER	1

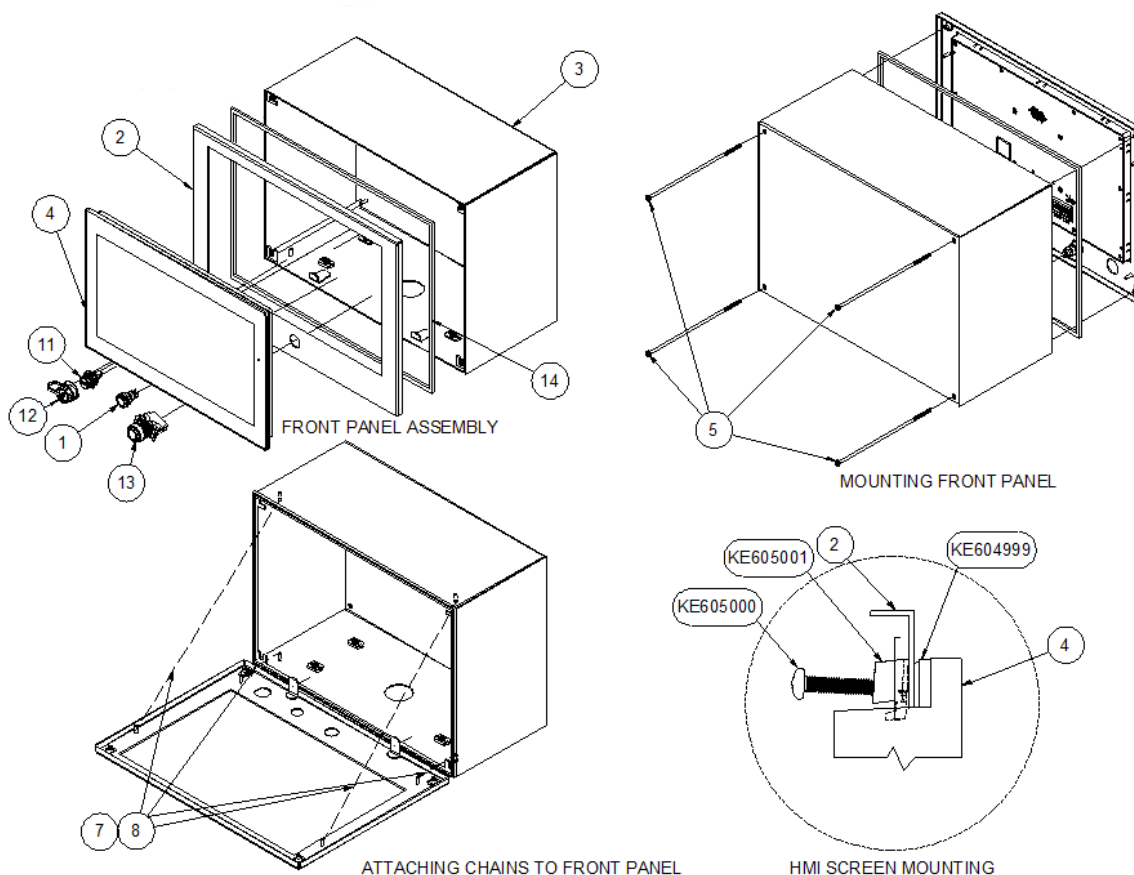
*Items not shown

COMPONENT PLATE ASSEMBLY – HMI (KE01966-1)



ITEM	PART #	DESCRIPTION	QTY.
1	KE50343-5	COMPONENT MOUNTING PLATE	1
2	KE52936-23	FUSE 5A/600V/KLDR 5	2
3	KE51139-1	FUSE HOLDER	5
4	PR50003	TERMINAL BLOCK	2
5	PR50005	TERMINAL BLOCK BRACKET	1
6	KE52936-18	FUSE 15 AMP	3
7	KE52936-5	FUSE 5A/250V/MDA-5	1
8	KE51139	FUSE HOLDER	1
9	FA10133	SCREW (6-32 X 3/8 LONG)	1
10	FA10237	SCREW (8-32 X 1/4 LONG)	11

BIRDHOUSE ASSEMBLY DRAWING (KE004288)

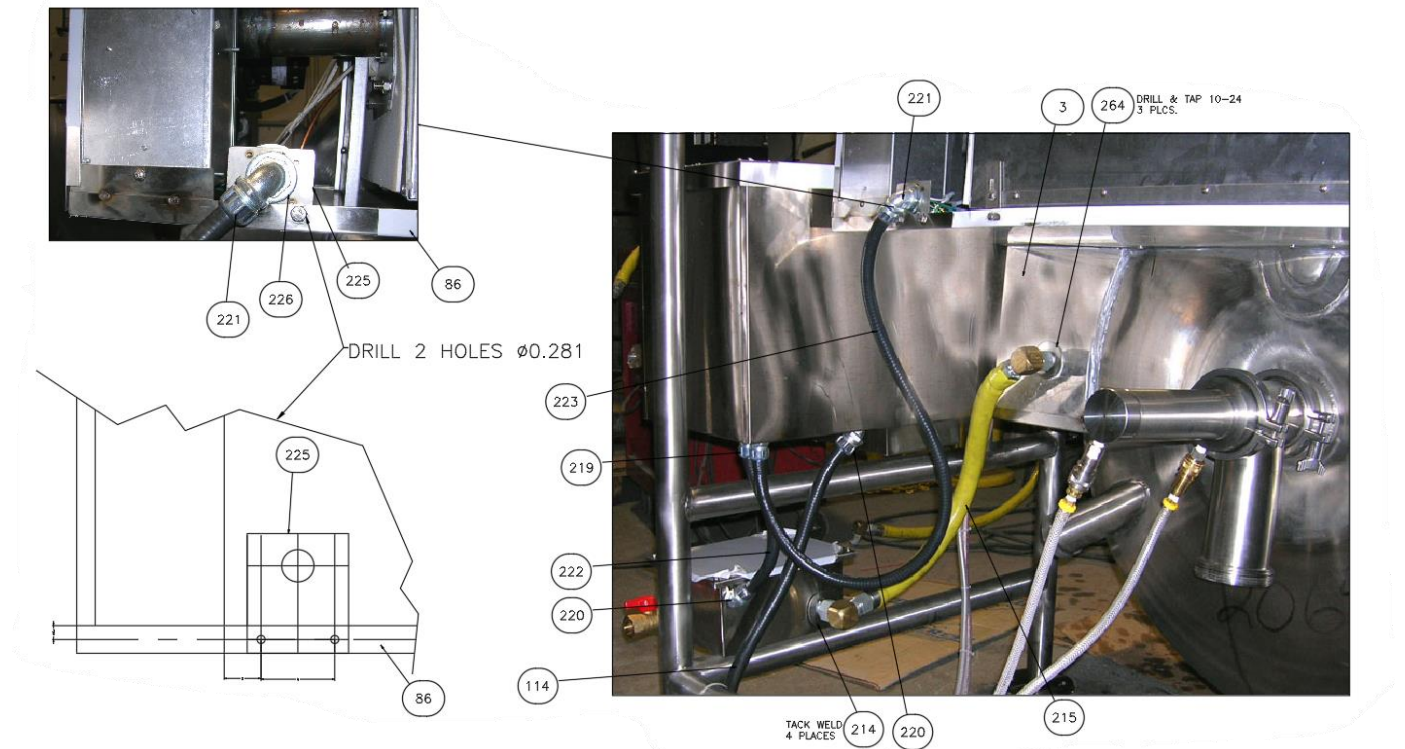
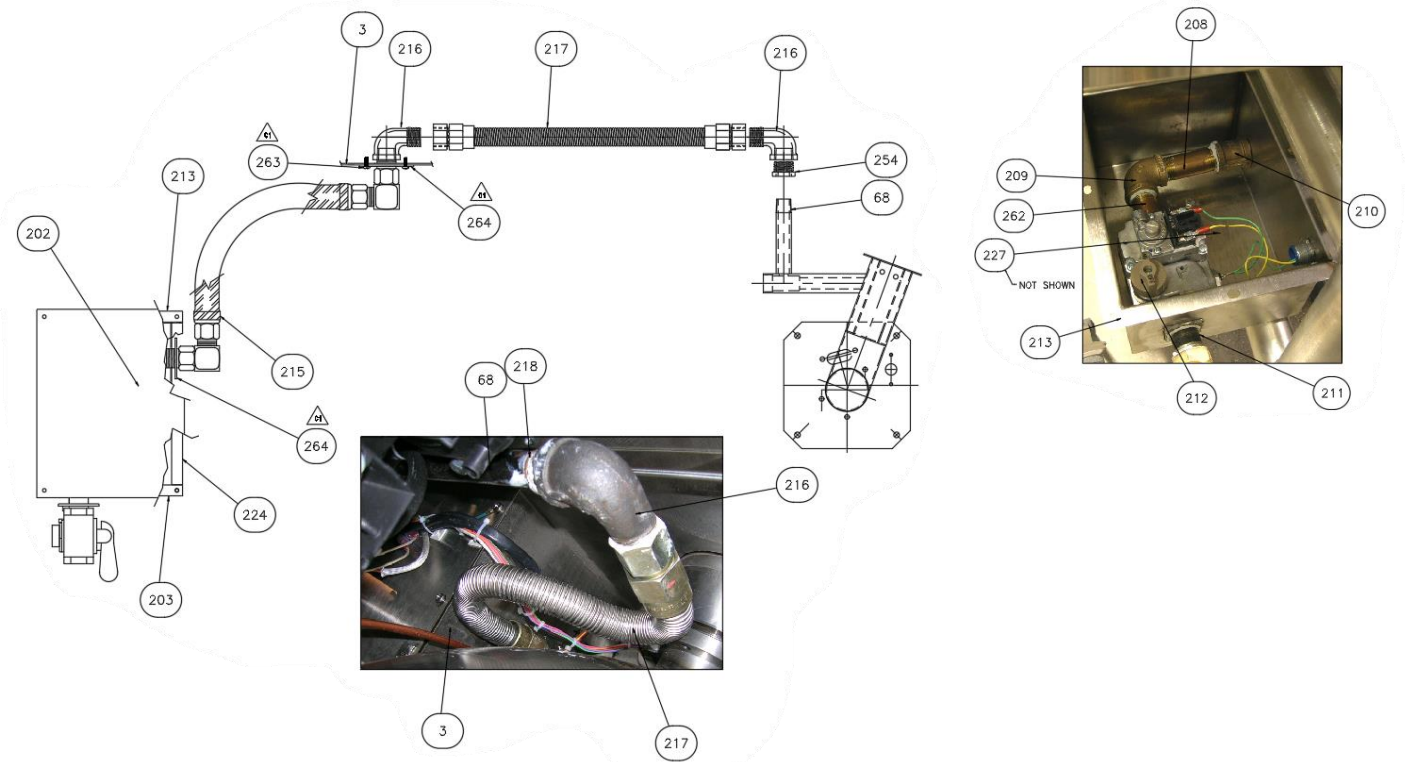


HMI MOUNTING ACCESSORIES	
PART #	DESCRIPTION
*KE604999	GASKET, HMI MOUNTING; HMI MIXER
*KE605000	SCREW, HMI MOUNTING; HMI MIXER
*KE605001	BRACKET, HMI MOUNTING; HMI MIXER

ITEM	PART #	DESCRIPTION	QTY
1	KE604116	PUSH BUTTON	1
2	KE004299	FRONT WELDMENT, BIRD HOUSE	1
3	KE004298	BACK WELDMENT, BIRD HOUSE	1
4	KE604972	HMI SCREEN	1
5	KE604995	SCREW, 10-24 X 8, STEEL PAN HEAD	4
*7	KE604996	SASH CHAIN; SS, 17.5" LONG	2
*8	KE604997	VARFLO SLEEVING 5/8 X 16.5" LONG	2
9	14659	NUT; HEX; #10-24; SST	8
11	KE605015	USB 3.0 FEMALE LOCK	1
12	KE605016	WATERPROOF CAP; FOR MALE CONN.	1
13	KE605135	PUSH BUTTON	1
14	KE604583-10	GASKET HMI	1

*Item not shown

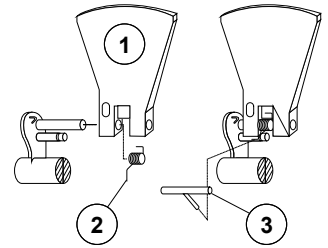
ASSEMBLY DRAWING, TILTING UNITS



TEM	PART #	DESCRIPTION	QTY.
202	KE602791	COVER, GAS VALVE BOX	1
203	KE53599-18	GASKET	2
205	KE55515	GASKET	1
207	KE53515	GAS VALVE	1
208	N06408A3	SPECIAL NIPPLE	1
209	FI00267	ELBOW 90 DEG. BRASS	1
210	FI00267	3/4" COUPLING, BRASS	1
211	N0640C1-5	3/4" x 1 1/2 NIPPLE, BLK. IRON	1
212	KE602053	GAS VALVE: KGL/T,MKGLT	1
213	KE602790	GAS VALVE BOX	1
214	KE54606	GAS VALVE LOCK WASHER	2
215	SK427703	GAS CONNECTOR HOSE (60/80/100 GAL)	1
216	FI00134	3/4" ELBOW, 90 "STREET"	2
217	KE602899	GAS CONNECTOR HOSE	1
219	KE519547	3/8 LIQUID TITE CONNECTOR, STRAIGHT	2
220	KE54617	3/8 LIQUID TITE CONNECTOR, 45°	1
221	KE51960	3/8 LIQUID TITE CONNECTOR, 90°	1
222	KE1916-7	3/8 LIQUID TITE CONDUIT	1
223	KE51916-8	3/8 LIQUID TITE CONDUIT	1
224	KE53599-19	GASKET	2
225	KE602992	BRACKET CONDUIT CONNECTOR	1
226	FA300802	WASHER	1
227	KE550001-1	MESH	1
228	KE602987-1	WASHER GEAR SIDE	2
230	SK427702	3/4" SWIVEL GAS FITTING	2
254	FI00336	BUSHING, HEX. REDUCER, 3/4"-1/2" NPT	1
262	N06408A5	3/4" x 3 1/2 BRASS NIPPLE	1
263	FA11135	10-24 x 1/2 SCREW	3
264	KE54606-1	GAS VALVE LOCK WASHER	1

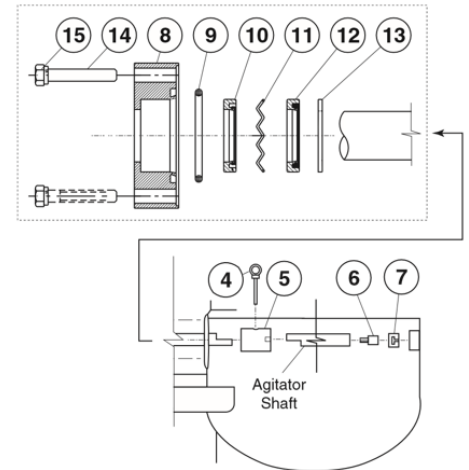
SCRAPER BLADES

ITEM	PART #	DESCRIPTION	QTY.
1	KE54602-1	SCRAPER BLADE	as required
2	KE54608	SPRING	as required
3	KE01976	SPRING REMOVAL TOOL	1
COMPLETE AGITATOR ASSEMBLY			
(NOT SHOWN)	KE02286-1	60 GALLON	1
	KE02286-2	80 GALLON	1
	KE02286-3	100 GALLON	1



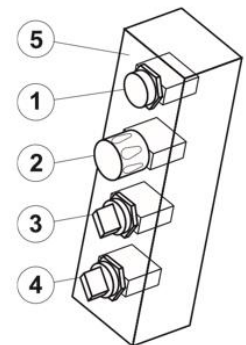
AGITATOR SEAL ASSEMBLY

ITEM	PART #	DESCRIPTION	QTY.
4	KE54594	PIN; QUICK RELEASE	1
5	KE54583	COUPLING FOR AGITATOR & DRIVE SHAFT	1
6	KE54593	LEFT HAND IDLER PIN	1
7	KE54590	IDLER BUSHING FOR AGITATOR	1
8	KE54592	SEAL RETAINER PLATE	1
9	FA05002-48	"O" RING	1
10	KE55458	SEAL	1
11	KE55457	SST WAVE WASHER	1
12	KE55456	SILICONE FILLED SEAL	1
13	KE55455	RETAINER FOR LIP SEALS	1
14	FA11509-5	BOLT, HEX HEAD, 3/8 16 x 2 1/2	2
15	FA31031	WASHER, 3/8 18-8	2
16	KE600583	GREASE NIPPLE, 1/8 NPT	2



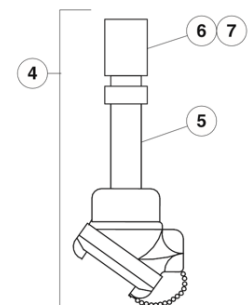
AGITATOR CONTROLS - STATIONARY

ITEM	PART #	DESCRIPTION	QTY.
1	KE53193	BUTTON, EMERGENCY STOP	1
2	KE54530-1	HEAD CAP, GREEN	1
3	KE54529	LED LAMP	1
4	KE54532	SWITCH, SPEED CONTROL	1
5	KE95483-1	LABEL	1



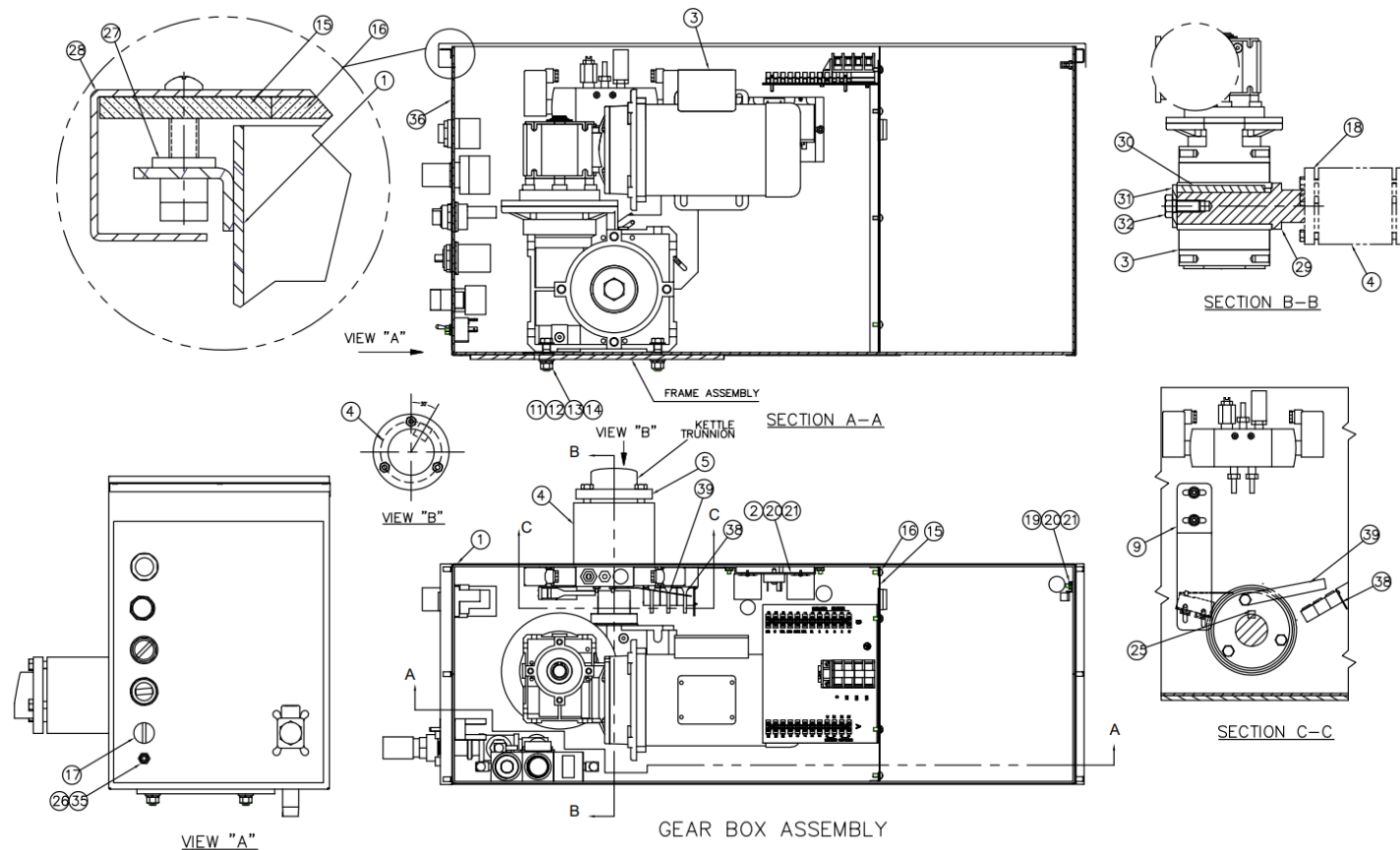
TEMPERATURE SENSOR

ITEM	PART #	DESCRIPTION	QTY.
4	KE54924-1	TEMPERATURE SENSOR ASSEMBLY	1
5	KE54924-2	SENSOR MAIN BODY	1
6	KE54924-3	TANK MOUNTING ADAPTOR	1
7	FA05002-23	SENSOR O-RING	1



GEAR BOX ASSEMBLY - POTENTIOMETER

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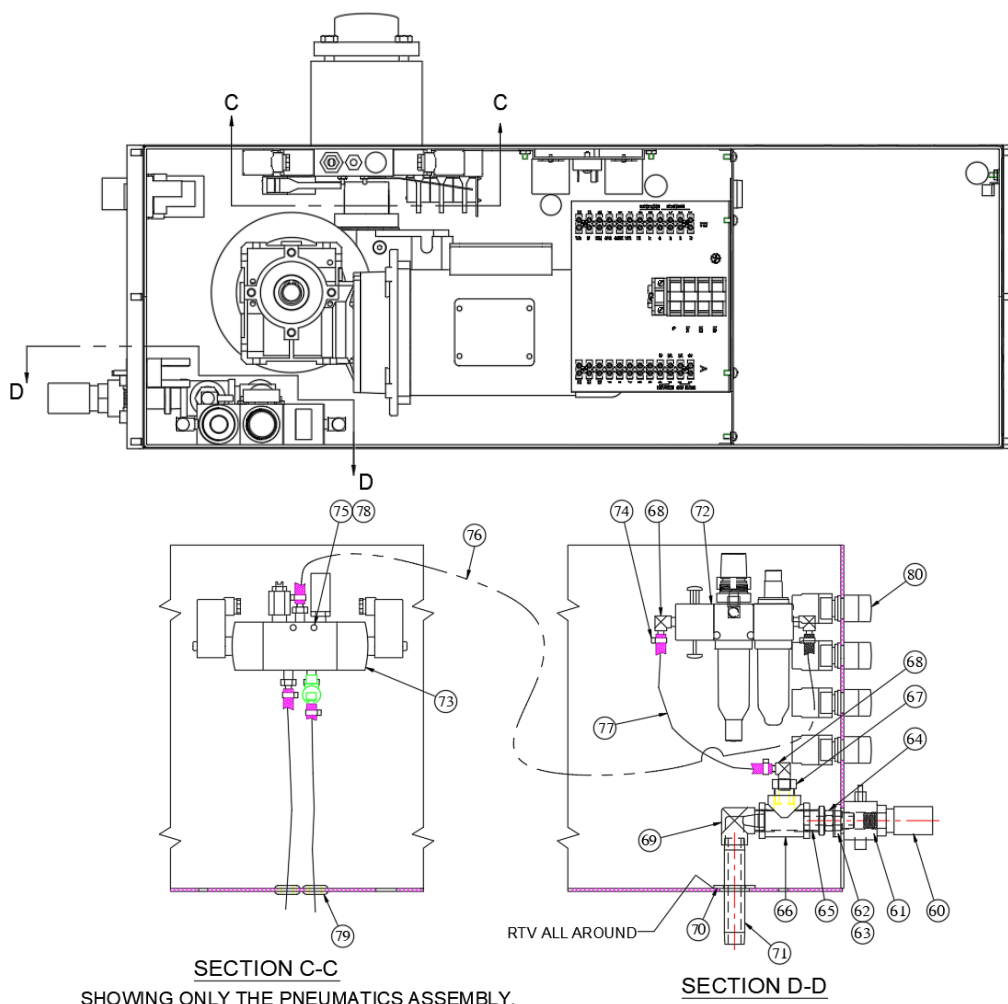
OPTIONS BUILT		
PART #	REV.	DESCRIPTION
KE003775-1	C	BASIC GEARBOX
KE003775-3	B	PARTS FOR WATER METER OPTION
KE003775-4 A	A	AGITATOR SWITCHES

KE003775-1 BASIC GEARBOX			
ITEM	PART #	DESCRIPTION	QTY.
1	KE000852-1	GEARBOX CONSOLE WELDMENT	1
2	REF. KE02185	COMPONENT PLATE, POWER TILT, KETTLE	1
3	KE601342-1	GEAR-MOTOR	1
4	KE602802-1	RIGID COUPLING	1
5	KE602802-2	SPLIT TAPER BUSHING, 1 3/4 BORE	2
7	SK2474501	LIMIT SWITCH	1
8	FA10140	SCREW #6-32UNC X 1 1/4" LG.	1
9	KE602798-1	LIMIT SWITCH BRACKET	1
10	KE602797-1	LIMIT SWITCH BRACKET	1
11	FA11386	HEX BOLT S.S. 3/8-16UNC x 1 1/2 LG.	4
12	FA21026	HEX NUT S.S. 3/8-16UNC	4
13	FA13013	SPLIT LOCK WASHER S.S. 3/8	4
14	KE53599-12	GASKET	2
15	KE53599-20	GASKET	2
16	FA35055-41	MACHINE SCREW 10-32 x 3/8, S.S.	6
17	KE003209-11	SWITCH, ON/OFF/ON (MOM/MAINT/MOM)	1
18	KE602802-3	SPLIT TAPER BUSHING, 2 1/2 BORE	1

19	KE50473	GROUND LUG	1
20	FA32022	EXTERNAL TOOTH LOCK WASHER #10	3
21	FA21006	HEX MACHINE SCREW NUT, UNC, 10-24, S.S.	4
22	FA21008	HEX NUT SCREW NUT 1/4-20UNC, S.S.	4
23	FA31029	LOCK WASHER 1/4, S.S.	4
24	FA35055-1	FLAT WASHER; 1/4, S.S.	4
25	KE55395	SQUARE KEY 3/8	1
26	KE50579-4	CIRCUIT BREAKER (2.5 Amp.)	1
27	FA95074	NYLON ANCHOR	2
28	KE601135	COVER, GEARBOX	1
29	KE600931-1	SHAFT, GEAR REDUCER	1
30	KE603884-2	SPECIAL KEY	2
31	FA35050-5	WASHER, S.S.	4
32	FA95101	HEX CAP SCREW, 5/8-11 X	2
33	FA15060	#10 SAE FLAT WASHER	4
34	FA20504-1	#6-32 "K" LOCKNUT ZINC	4
35	KE50580	WATER RESISTANT BOOT	1
36	KE601384	LABEL; GEARBOX	1
37	FA11145	MACHINE SCREW 10-32 x 3/8, S.S.	2

GEAR BOX ASSEMBLY - POTENTIOMETER → CONTINUED

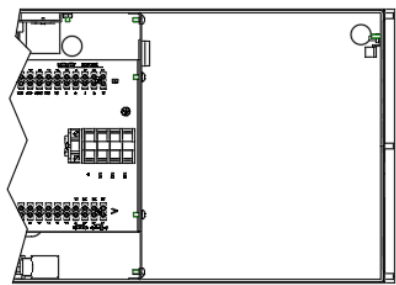
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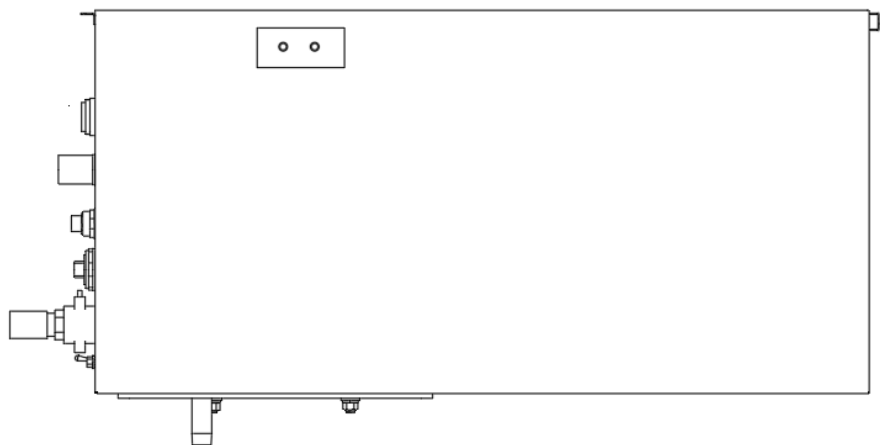
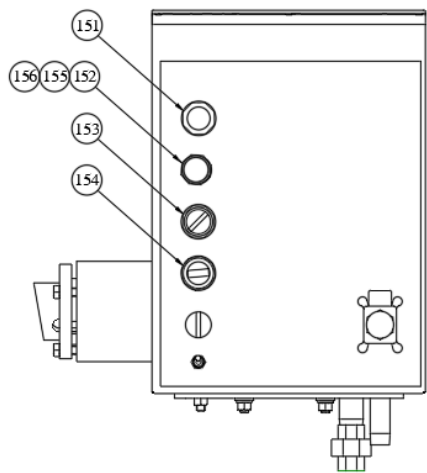
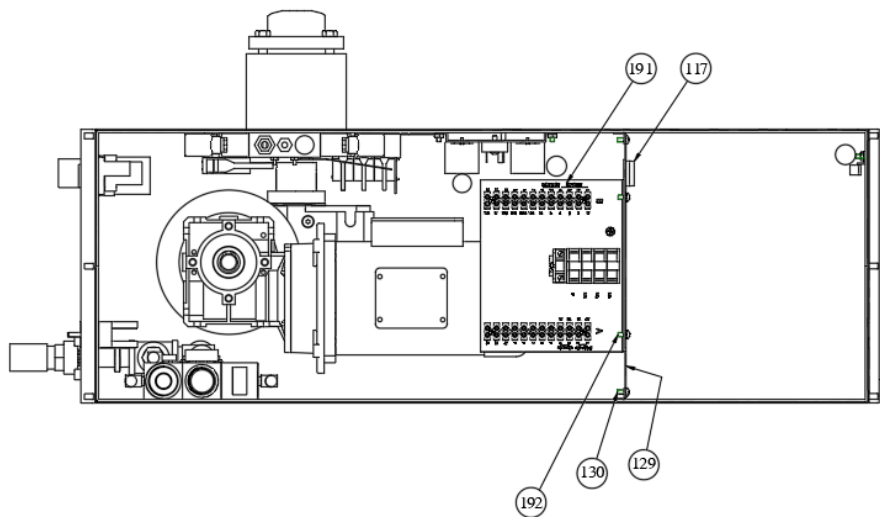
KE003775-2 PNEUMATICS FOR FPVA3			
ITEM	PART #	DESCRIPTION	QTY.
60	KE601603	QUICK CONNECT	1
61	KE601601	SLIDE VALVE	1
62	FA30512	SPACER WASHER	1
63	FA32500	TOOTH LOCK WASHER 7/8 DIAL	1
64	KE52697	NUT 1/2 NPS BRASS	1
65	KE601602	AIR FITTING	1
66	KE600814-1	TEE 1/2 NPT	1
67	FI00351	BUSHING 1/2 MIP x 1/4 FIP	1
68	FI05318	HOSE BARB 90 DEGREE ELBOW	3
69	KE600812-1	90 DEGREE STREET ELBOW 1/2 NPT	1
70	KE54353	WASHER 7/8 ID x 2 OD	1
71	N0440B4-5	NIPPLE 1/2 NPT x 4 1/2 LONG	1
72	KE02369	FILTER-REGULATOR-LUBRICATOR ASSY	1
73	KE02292	AIR SOLENOID ASSEMBLY	1
74	FI05220-1	GEAR CLAMP	4
75	FA21002	HEX NUT, 6-32, S.S.	4
76	KE532177	PNEUMATIC HOSE, 1/4 ID x 31 L	1
77	KE532176	PNEUMATIC HOSE, 1/4 ID x 12 1/2	1
78	FA32004	TOOTH LOCK WASHER, #6, ZINC PLATED	4
79	KE50555-3	GROMMET	2
80	KE003209-9	SWITCH;ON/OFF/ON(MAINT/MAINT/MOM)	1

GEAR BOX ASSEMBLY - POTENTIOMETER → CONTINUED

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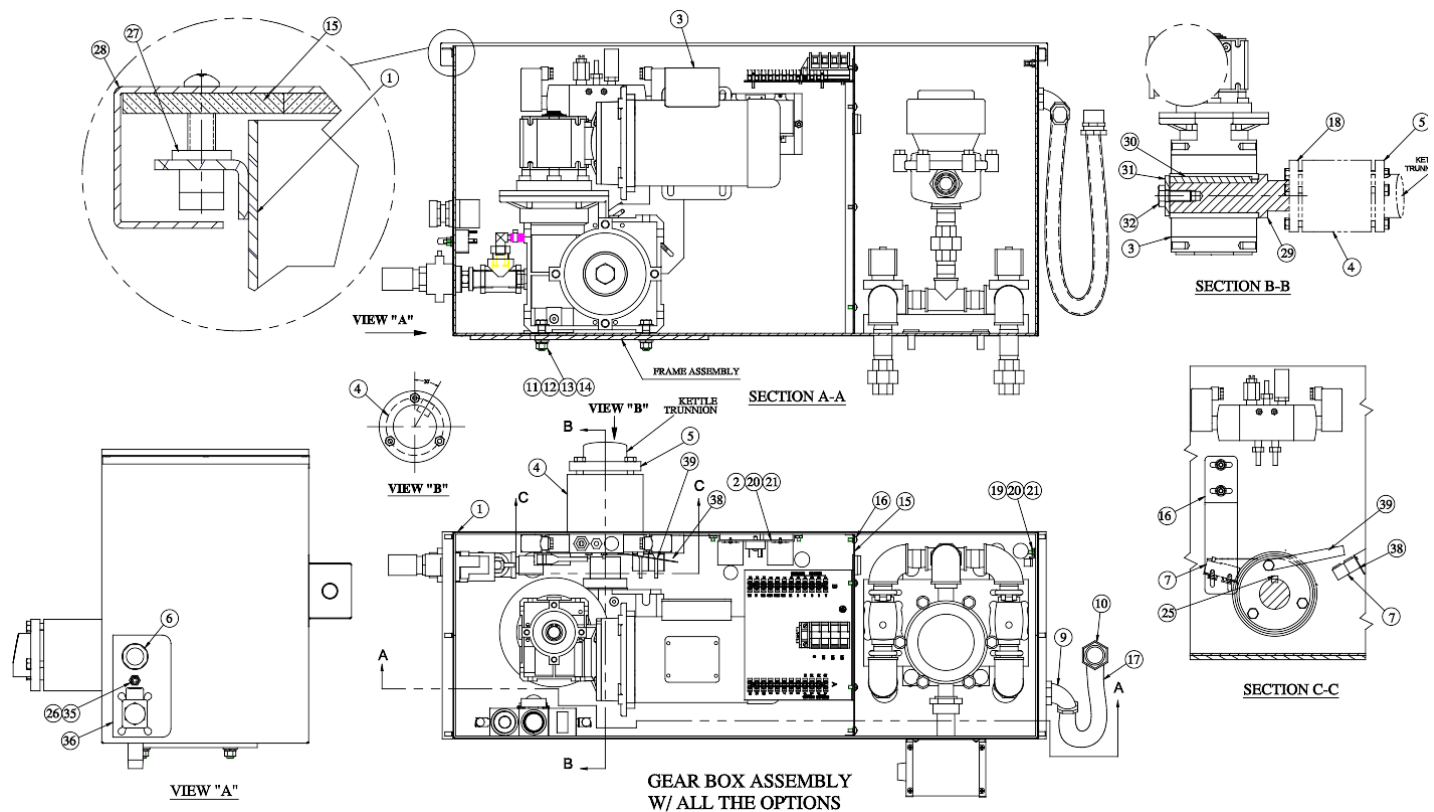
GEAR BOX ASSEMBLY
W/NO WATER METER OPTION



KE003775-4 AGITATOR SWITCHES			
151	KE53193	EMERGENCY STOP	1
152	KE54530*	AGITATOR START BUTTON	1
153	KE54529*	AGITATOR POWER SWITCH	1
154	KE54532*	SPEED CONTROL SWITCH	1
155	KE603106*	L.E.D. LAMP	1
156	KE54530-1	GREEN PUSH HEAD CAP	1

GEARBOX ASSEMBLY – HMI (KE004306)

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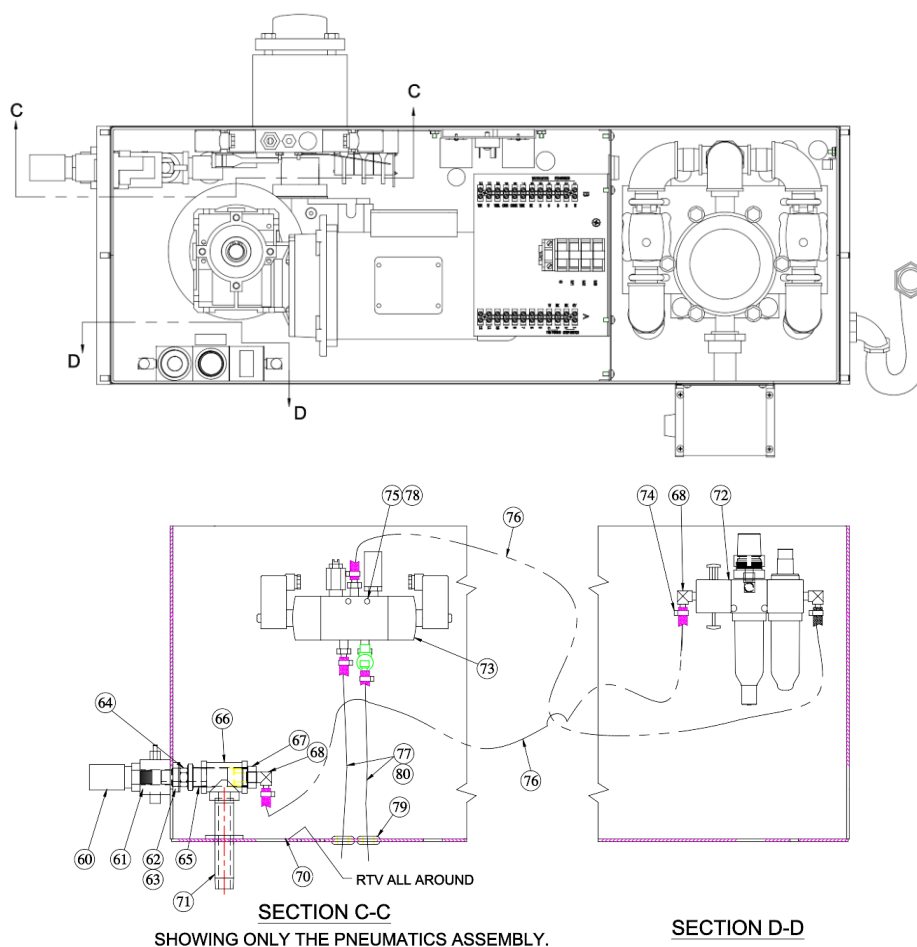
OPTIONS BUILT		
PART #	REV.	DESCRIPTION
KE004306-1	A	BASIC GEAR BOX
KE004306-2	A	PARTS PNEUMATICS FOR FPVA3 OPTION
KE004306-3	A	PARTS FOR WATER METER OPTION
KE004306-4	A	PARTS FOR WITHOUT WATER METER OPTION
KE004306-5	A	COMPONENTS FOR HA-SG/DG REMOTE PANEL OPTION

KE004306-1 HMI GEARBOX			
ITEM	PART #	DESCRIPTION	QTY.
1	KE000852-2	GEARBOX CONSOLE WELDMENT	1
2	REF. KE02185	COMPONENT PLATE, POWER TILT, KETTLE	1
3	KE601342-1	GEAR-MOTOR	1
4	KE602802-1	RIGID COUPLING	1
5	KE602802-2	SPLIT TAPER BUSHING, 1 3/4 BORE	2
6	KE53193	EMERGENCY STOP	1
7	SK2474501	LIMIT SWITCH	1
8	FA10140	SCREW #6-32UNC X 1 1/4" LG.	1
9	KE605178-1	FITTING; LIQ. TITE, 1 1/4", 90D	1
10	KE605178-2	FITTING; 1 1/4" LIQUID TITE STRAIGHT	1
11	FA11386	HEX BOLT S.S. 3/8-16UNC x 1 1/2 LG.	4
12	FA21026	HEX NUT S.S. 3/8-16UNC	4
13	FA31031	SPLIT LOCK WASHER S.S. 3/8	4
14	KE53599-12	GASKET	2
15	KE53599-20	GASKET	2
16	KE602798-1	LIMIT SWITCH BRACKET, HA MIXERS	1
17	KE604989	CONDUIT LIQUID TIGHT 1-1/4 X 21 LONG	1
18	KE602802-3	SPLIT TAPER BUSHING, 2 1/2 BORE	1

19	KE50473	GROUND LUG	1
20	FA32022	EXTERNAL TOOTH LOCK WASHER #10	3
21	FA21006	HEX MACHINE SCREW NUT UNC, 10–24, S.S.	4
22	FA21008	HEX NUT SCREW NUT 1/4–20UNC, S.S.	4
23	FA31029	LOCK WASHER 1/4, S.S.	4
24	FA35055-1	FLAT WASHER;1/4, S.S.	4
25	KE55395	SQUARE KEY 3/8	1
26	KE50579-4	CIRCUIT BREAKER (2.5 Amp.)	1
27	FA95074	NYLON ANCHOR	6
28	KE601135	COVER, GEARBOX	1
29	KE600931-1	SHAFT, GEAR REDUCER	1
30	KE603884-2	SPECIAL KEY	2
31	FA35050-10	WASHER, S.S.	5
32	FA95101	HEX CAP SCREW, 5/8–11 X	2
33	FA30076	#10 SAE FLAT WASHER	6
34	FA20504-1	#6–32 “k” LOCKNUT ZINC	6
35	KE50580	WATER RESISTANT BOOT	1
36	KE602469	LABEL; GEARBOX	1
37	FA11145	MACHINE SCREW 10–32 X 3/8, S.S.	2
38	KE604620	LIMIT SWITCH BRACKET, HA MIXERS	3
39	KE604621	LIMIT SWITCH PLATE, HA MIXERS	1

GEARBOX ASSEMBLY-HMI (KE004306) → CONTINUED

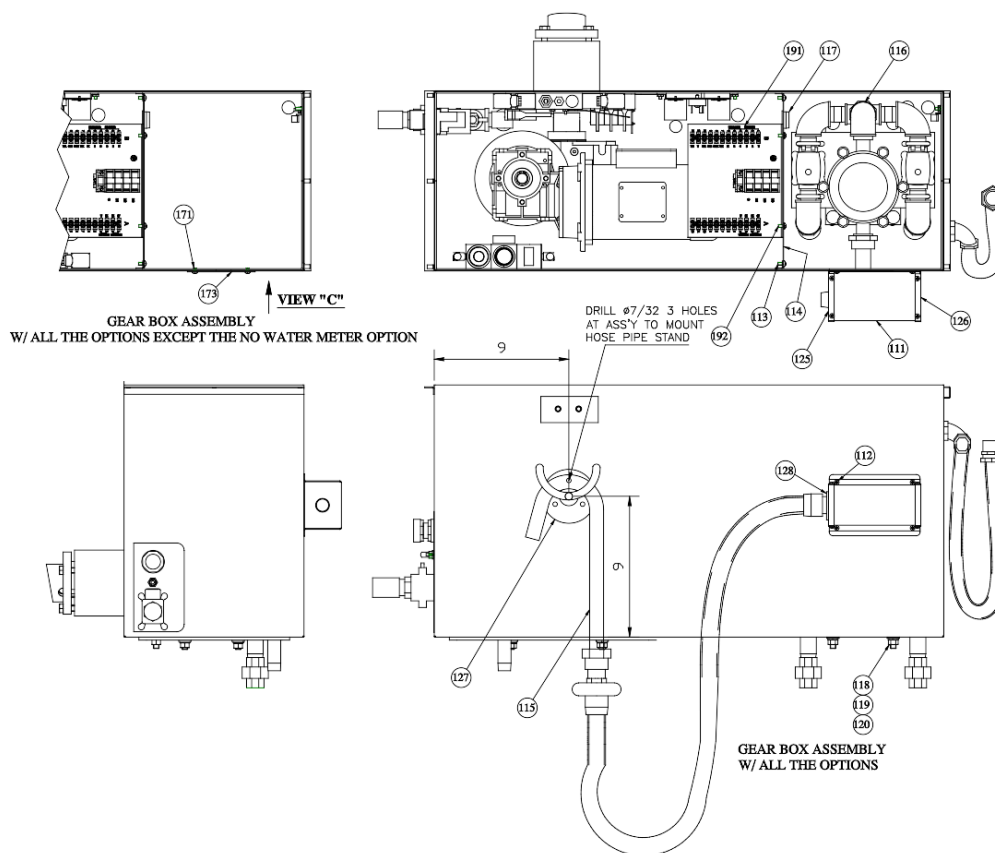
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KE004306-2 PNEUMATICS FOR FPVA3			
ITEM	PART #	DESCRIPTION	QTY.
60	KE601603	QUICK CONNECT	1
61	KE601601	SLIDE VALVE	1
62	FA30512	SPACER WASHER	1
63	FA32500	TOOTH LOCK WASHER 7/8 DIA.	1
64	KE52697	NUT 1/2 NPS BRASS	1
65	KE601602	AIR FITTING	1
66	KE600814-1	TEE 1/2 NPT	1
67	FI00351	BUSHING 1/2 MIP X 1/4 FIP	1
68	FI005318	HOSE BARB 90 DEGREE ELBOW	3
69	KE600812-1	90 DEGREE STREET ELBOW 1/2 NPT	1
70	KE54535	WASHER 7/8 ID X 2 OD	1
71	N0440B4-5	NIPPLE 1/2 NPT X 4 1/2 LONG	1
72	KE02369	FILTER-REGULATOR-LUBRICATOR ASSY	1
73	KE02292	AIR SOLENOID ASSEMBLY	1
74	FI05220-1	GEAR CLAMP	4
75	FA21002	HEX NUT, 6-32, S.S.	4
76	KE523177	PNEUMATIC HOSE, 1/4 ID X 31 L	1
77	KE604998	PNEUMATIC HOSE, 1/4 ID X 48 L	1
78	FA32004	TOOTH LOCK WASHER, #6, ZINC PLATED	4
79	KE50555-3	GROMMET	1
80	KE605202	SPIRAL SLEEVING; 1/2 ID X 48 L	1

GEARBOX ASSEMBLY-HMI (KE004306) → CONTINUED

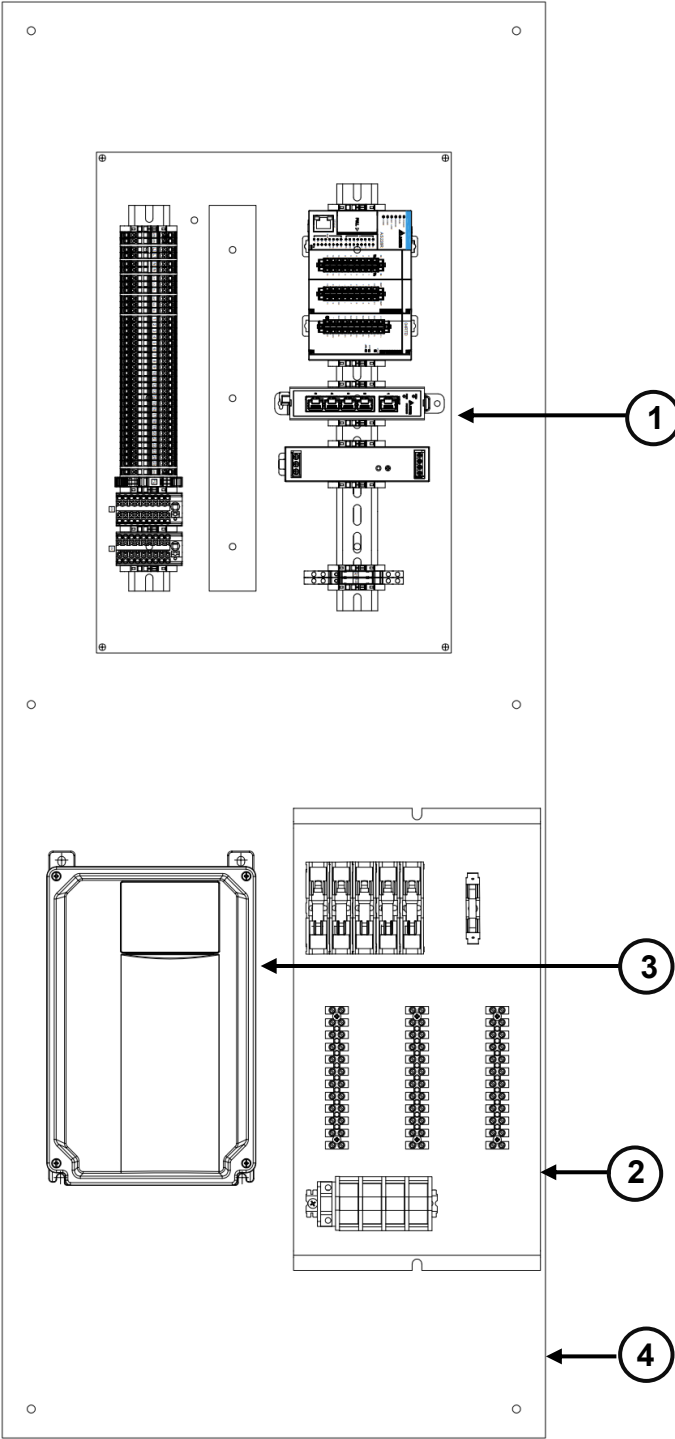
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KE004306-3 DIGITAL WATER METER			
ITEM	PART#	DESCRIPTION	QTY
111	KE05005-1	COVER, FILLER BOX	1
112	FA11091	MACHINE SCREW, 8-32 X 3/8" LG S.S.	6
113	FA11145	MACHINE SCREW 10-32 X 3/8, S.S.	8
114	KE000964-1	PARTITION PLATE	1
115	KE55221-2	¾ SINGLE WALL POT FILLER	1
116	KE004356	PLUMBING ASSEMBLY, WATER METER	1
117	KE54833-4	SNAP-IN BUSHING; 1.093 DIA	4
118	FA21062	HEX NUT S.S. 3/8-16UNC	4
119	FA31015	SPLIT LOCK WASHER S.S. 3/8	4
120	FA30505-11	FLAT WASHER S.S. 3/8	4
121	KE52936-3	FUSE, 1 AMP	1
122	KE51319-*	FUSE HOLDER	1
123	KE50435-*	COMPONENT PLATE	1
124	KE50753-16	RELAY	1
125	KE05005-2	SIDE COVER, FILLER BOX	1
126	KE05005-3	SIDE COVER, FILLER BOX	1
127	KE55221-4	FAUCET HOOK	1
128	KE46060-2	WASHER; WATER METER	1
KE004306-4 HA-SG REMOTE PANEL			
191	KE030608-1	COMPONENT ASSEMBLY	1
192	FA11525-1	SEMS HEAD SCREW #10-32 X 3/8	2

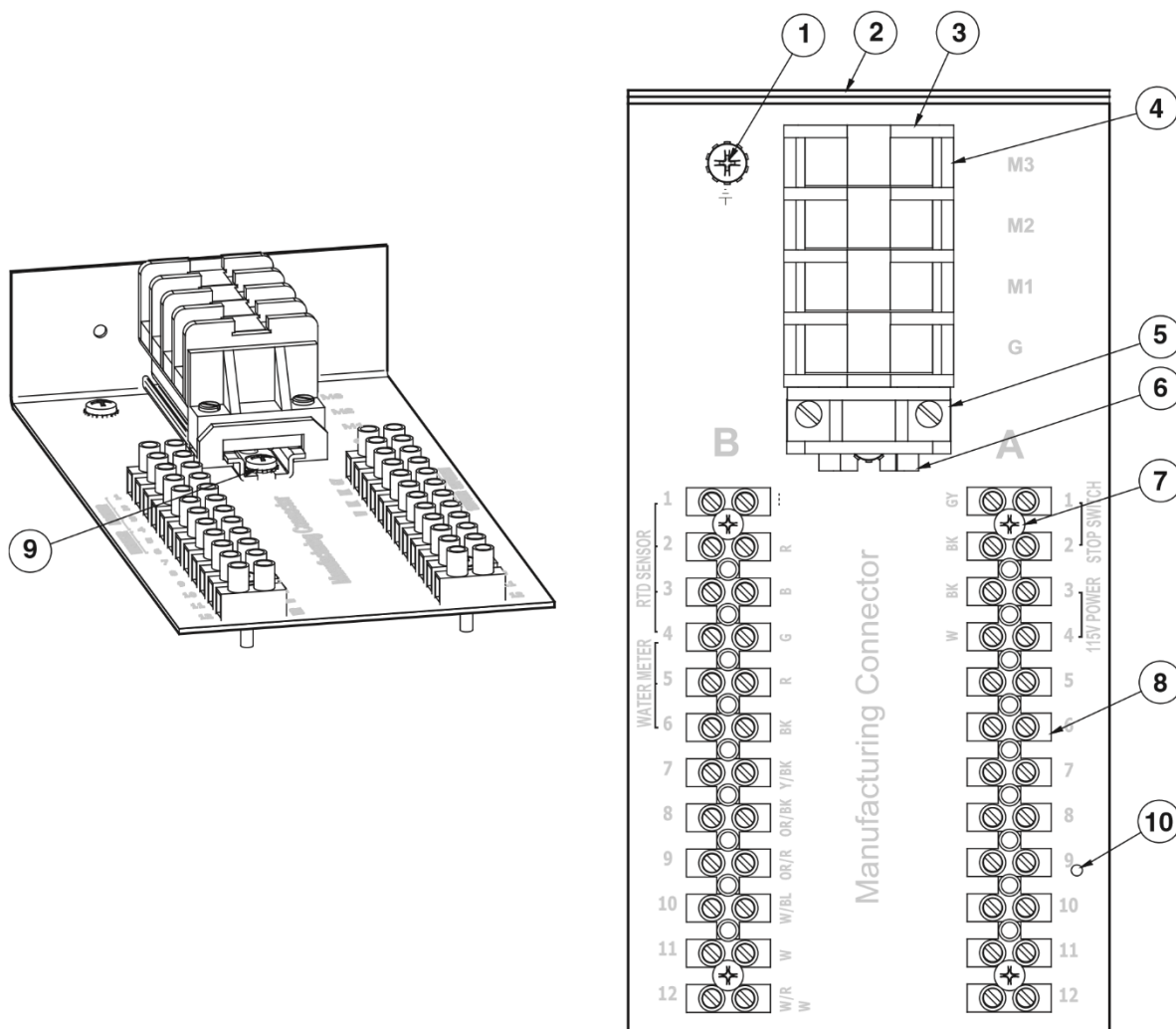
*Parts not shown

**REMOTE CONSOLE COMPONENT PLATE ASSEMBLY -
OPTIONAL**



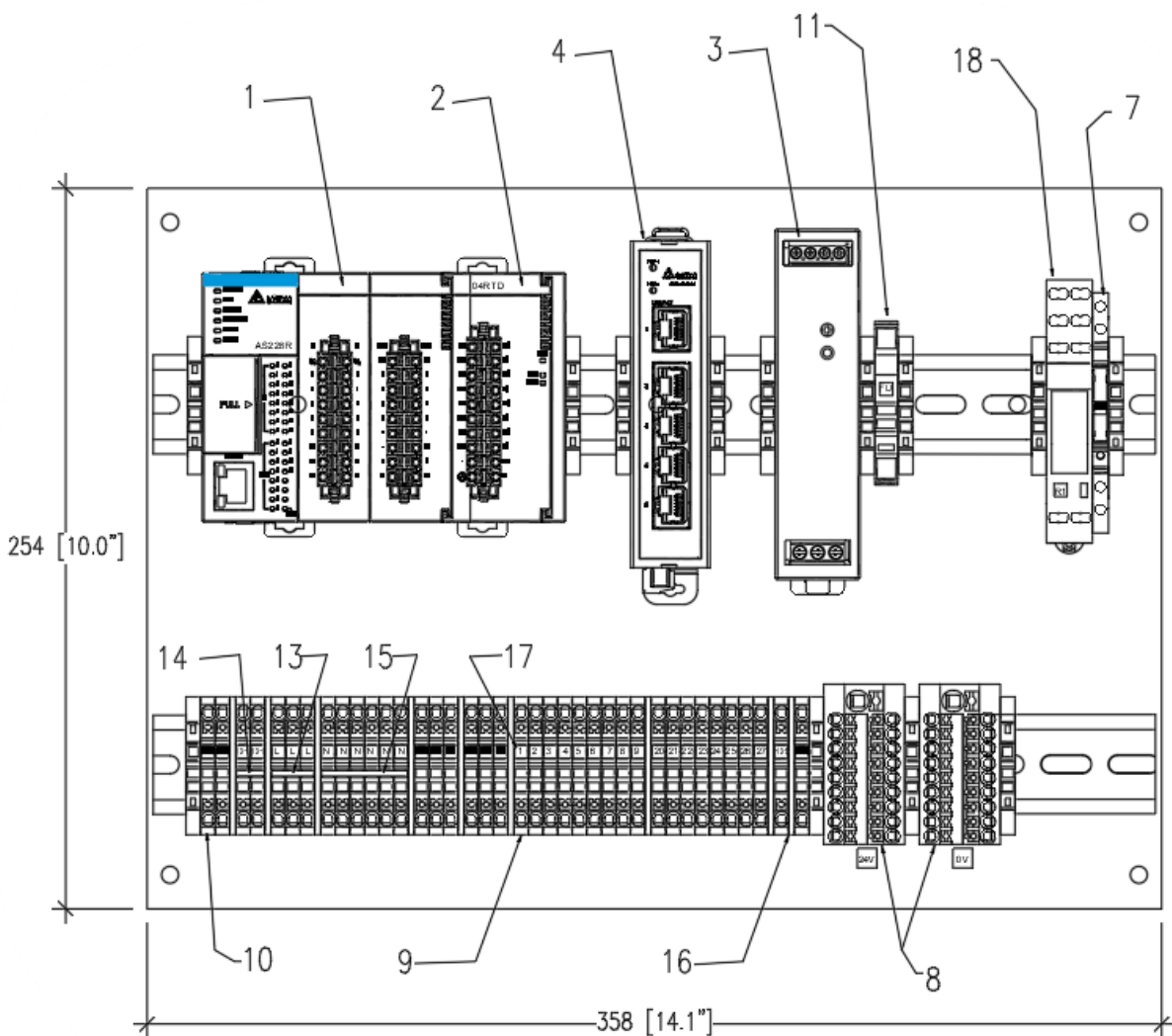
ITEM	PART #	DESCRIPTION	QTY
1	KE004309	PLC COMPONENT PLATE ASSY	1
2	KE004326	COMPONENT PLATE ASSY	1
3(230V)	KE54528-6	NEMA 4X 3HP VFD	1
3(460V)	KE54528-7	NEMA 4X 3HP VFD	1
4	KE604405-1	BACK PANEL	1

KETTLE WIRE TERMINATION ASSEMBLY REMOTE CONSOLE OPTION



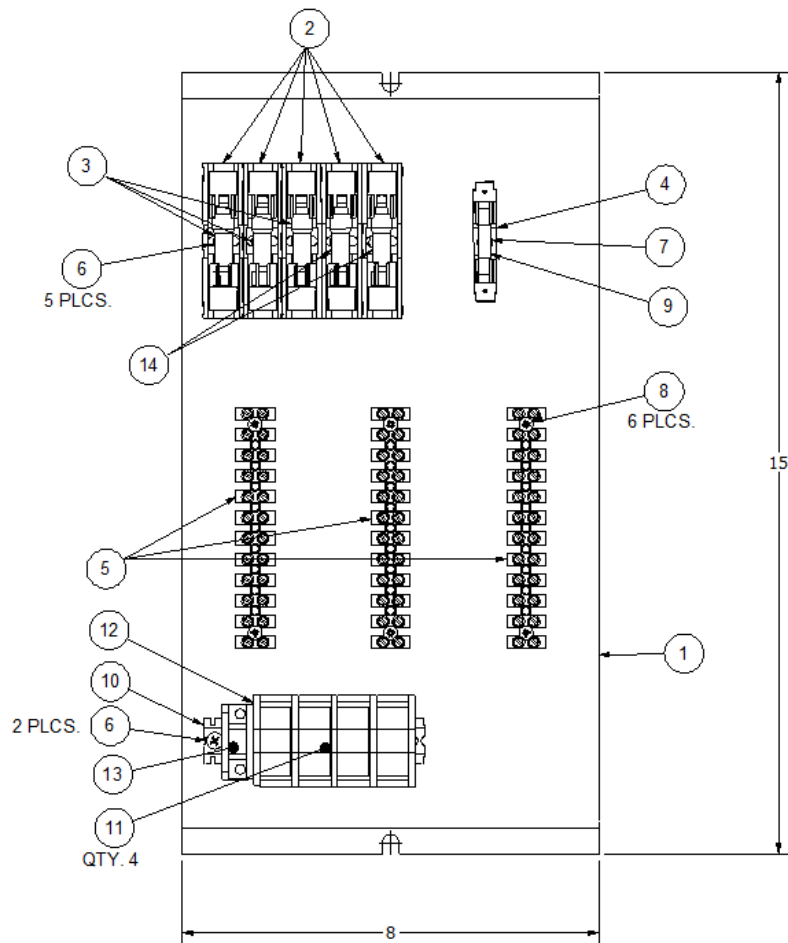
ITEM	PART #	DESCRIPTION	QTY.
1	FA11525-1	PHIL SCREW #10-32X3/8	1
2	KE603401-1	COMPONANT BRACKET	1
3	SK50054-1	TERMINAL BLOCK END BARRIER	1
4	SK50055-1	TERMINAL BLOCK	4
5	SK50054-2	TERMINAL BLOCK END BARRIER	1
6	KE54761-2	TERMINAL BLOCK MOUNTING RAIL X 3 1/4	1
7	FA15018-6	PHIL SCREW #6-32X3/4	4
8	KE603615	TERMINAL BLOCK	2
9	FA15018-3	PHIL SCREW #8-32X1/4	2
10	KE603616-1	LABEL	1

PLC COMPONENT PLATE ASSEMBLY (KE004309)



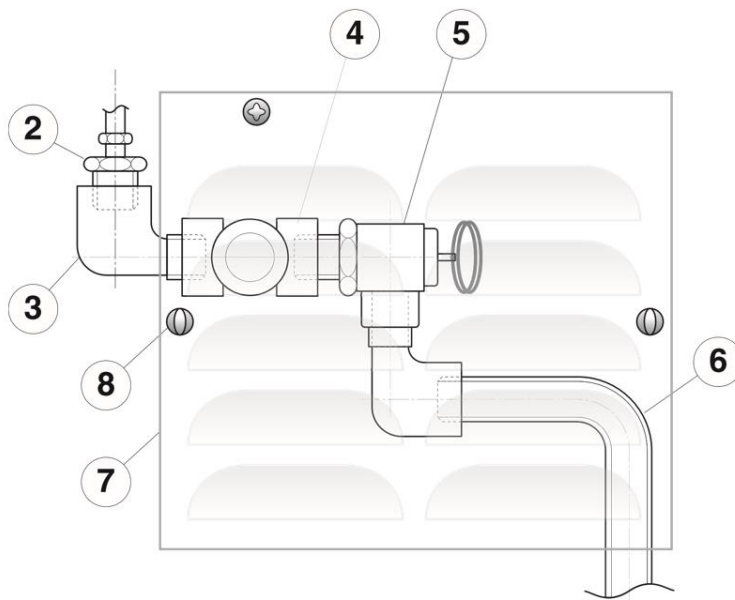
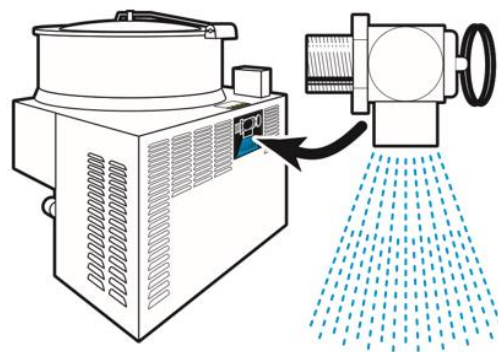
ITEM	PART #	DESCRIPTION	QTY.
1	KE605059	PLC CPU UNIT	1
2	KE605060	TEMP INPUT MODULE	1
3	KE605061	24V POWER SUPPLY	1
4	KE605062	5 PORT ETHERNET SWITCH	1
5	KE54528-6	NEMA 4X 3HP VFD	1
5 (alt)	VFD11AMS23MNSAA	NEMA 4X 3HP VFD	1
6	KE605063	MS300 ETHERNET CARD	1
7	KE605064	SPST-NO 24V RELAY	1
8	KE605065	DISTRIBUTION BLOCK	2
9	KE605066	2.5UK FEED-THRU TERM BLK	35
10	KE605067	2.5UK GROUND TERM BLK	3
11	KE605068	1/4" X 1 1/4" FUSE BLOCK	12
12	KE605069	END STOP	3
13	KE605142	3-POS BRIDGE JUMPER	13
14	KE605070	2-POS BRIDGE JUMPER	10
15	KE605195	10-POS BRIDGE JUMPER	3
16	KE605071	PARTITION PLATE	1
17	KE605072	BLANK MARKER TAG SHEET	1
18	KE605143	SPDT 120VAC RELAY	1
19	KE604936	COMPONENT PLATE, S.S.	1

COMPONENT PLATE ASSEMBLY (KE004326)



ITEM	PART #	DESCRIPTION	QTY.
1	KE55284-3	COMPONENT PLATE	1
2	KE51139-1	FUSE HOLDER	5
3	KE52936-18	FUSE 15A/600V/KILDR15	3
4	KE51139	FUSE HOLDER	3
5	KE603615	TERMINAL BLOCK	3
6	FA10239	BINDING HEAD SCREW (PLATED) 8-32 X 3/8"L.G	7
7	FA10131	BINDING HEAD SCREW (PLATED) 6-32 X 1/4"L.G	1
8	FA10135	BINDING HEAD SCREW (PLATED) 6-32 X 1/2"L.G	1
9	KE52936-3	FUSE 1A/250V/MDL-1	1
10	KE54761-3	TERMINAL BLOCK MOUNTING RAIL	1
11	KE603617	TERMINAL BLOCK	4
12	KE50772-2	TERMINAL BLOCK END BARRIER	1
13	SK50054-2	TERMINAL BLOCK END ANCHOR	2
14	KE52936-23	FUSE	2
15*	KE603617-1	LABEL	1

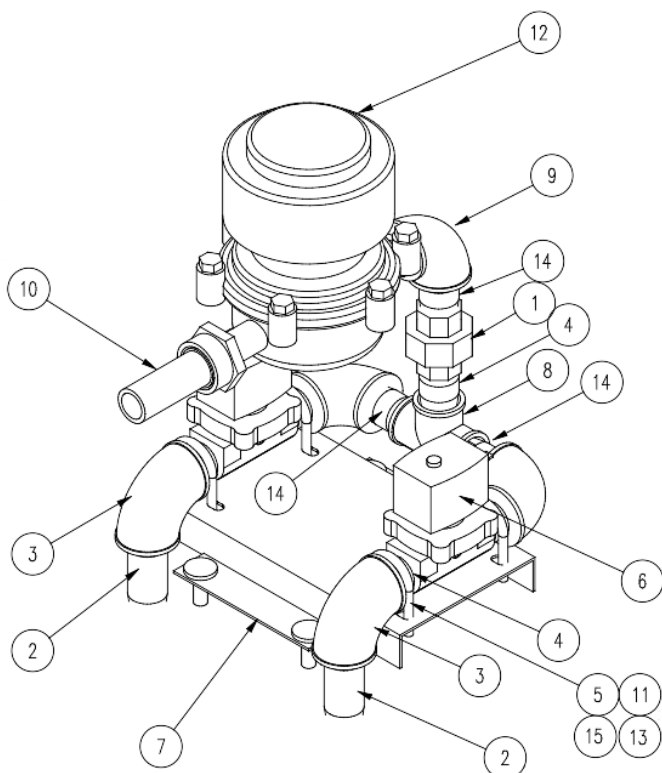
PRESSURE RELIEF ASSEMBLY



ITEM	PART #	DESCRIPTION	QTY.
<u>PRESSURE RELIEF VALVE ASSEMBLIES</u>			
1	KE01450	FOR ASME KETTLES (INCLUDES #2-6)	1
	KE01450-1	FOR CE KETTLES (INCLUDES #2-6)	1
2	FI05049	MALE CONNECTOR, 1/2" PIPE - 1/4" TUBE	1
3	KE600812-1	STREET ELBOW, 90°, 1/2", BRASS	2
4	KE600814-1	TEE, 1/2" FPT, BRASS	1
<u>SAFETY VALVES</u>			
5	KE54941-5	SAFETY VALVE, 50 PSI, 1/2" (NORTH AMERICA)	1
	KE54941-31	SAFETY VALVE, 50 PSI, 1/2", (EUROPE)	1
6	KE54223	BLOW DOWN TUBE	1
7	KE54864	ACCESS PANEL	1
8	FA11518-4	THUMB SCREW, 10-32 X 1/2" L	2

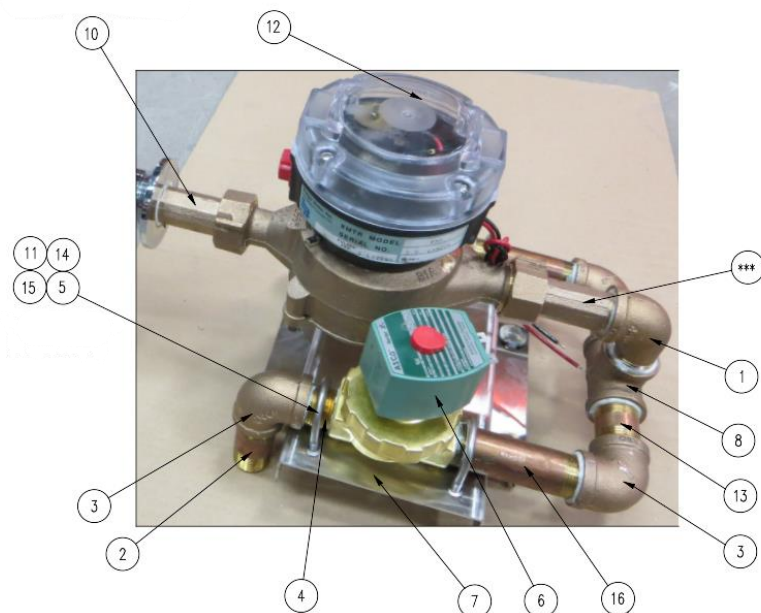
PLUMBING ASSEMBLY, WATER METER

TILTING MODELS



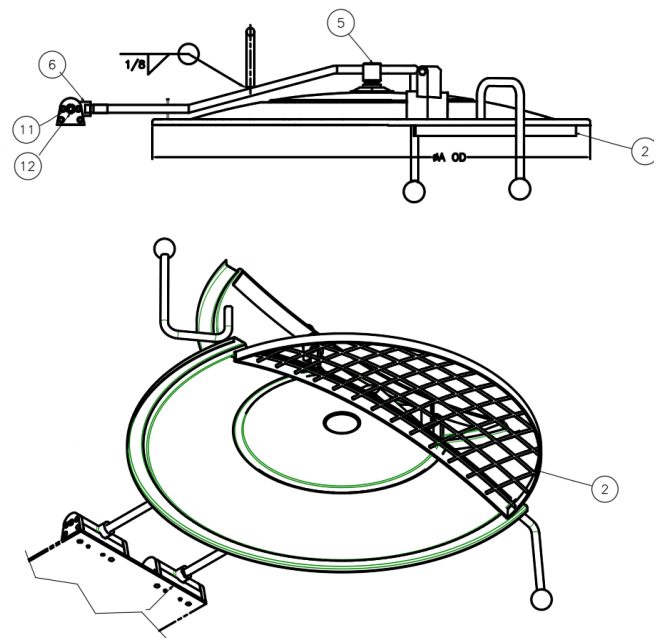
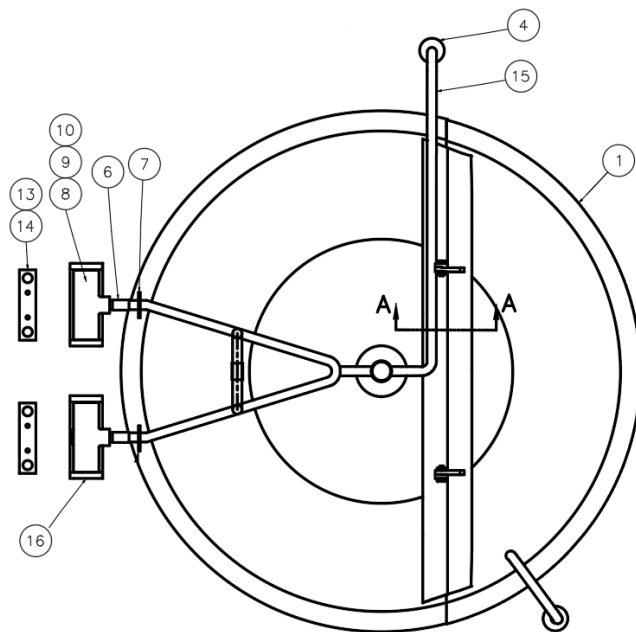
-	KE004356-1	PLUMBING; LITRE METER (HAMKGL-T)	▼
ITEM	PART #	DESCRIPTION	QTY.
1	FI00096	3/4 BRASS UNION	1
2	N0640B2-5	3/4 NPT X 2 1/2 BRASS NIPPLE	2
3	FI00125	3/4 NPT BRASS STREET ELBOW	4
4	N0640B1-5	3/4 NPT CLOSE BRASS NIPPLE	5
5	FA5092-2	U-BOLT, 1/4-20	4
6	KE54834-4	SOLENOID VALVE MOUNTING PLATE	2
7	KE02920	ASSY, HOT/COLD WM	1
8	FI00179	3/4 NPT BRASS FEMALE TEE	1
9	FI00365	3/4 X 1 REDUCING BRASS ELBOW	1
10	FI05135	ADAPTOR NIPPLE & GASKET	1
*11	FA2108	S.S. NUT 1/4-20	8
12	KE51858	LITRE METER, HOT WATER	1
13	FA31029	LOCKWASHER 1/4 S.S	8
14	N0640B2	3/4 NPT X 2 BRASS NIPPLE	3
*15	FA3050-9	FLAT WASHER 1/4 S.S.	8
*16	FI00152	ELBOW; STREET 3/4-90D	1
*17	KE605115	DOUBLE CHECK VALVE 3/4"	1

STATIONARY MODELS



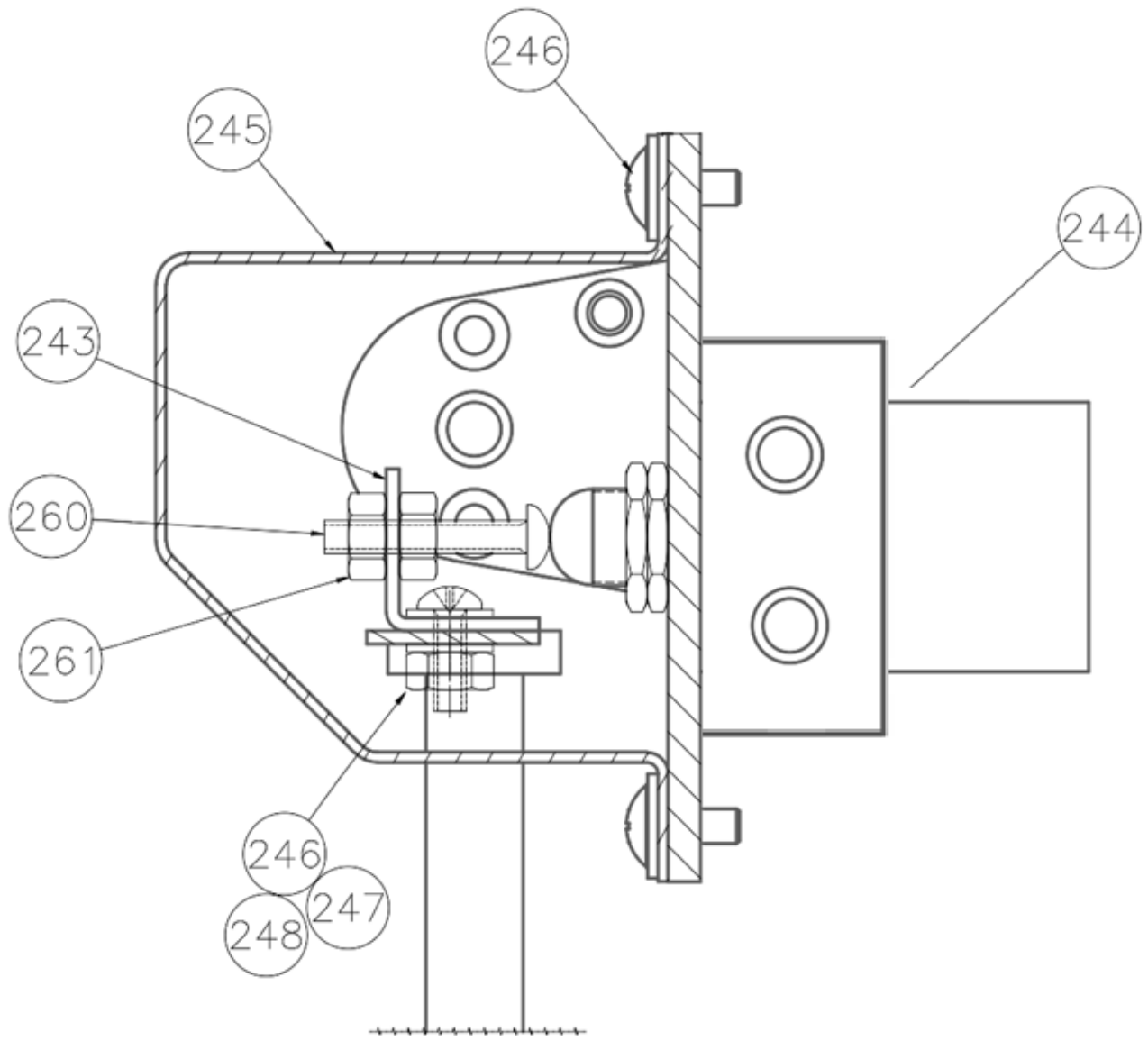
-	KE004356-2	PLUMBING; LITRE METER (HAMKGL)	▼
ITEM	PART #	DESCRIPTION	QTY.
1	FI00152	STREET ELBOW 3/4 90D	1
2	N0640B2-5	3/4 NPT X 2 1/2 BRASS NIPPLE	2
3	FI00063	3/4 NPT BRASS ELBOW	7
4	N0640B1-5	3/4 NPT CLOSE BRASS NIPPLE	8
5	FA95092-2	U-BOLT, 1/4-20	4
6	KE54834-4	SOLENOID VALVE	2
7	KE02290	MOUNTING PLATE ASSY, HOT/COLD WM	1
8	FI00179	3/4 NPT BRASS FEMALE TEE	1
9	FI00365	3/4 X REDUCING BRASS ELBOW	1
10	F105135	ADAPTOR NIPPLE & GASKET	1
11	FA21008	S.S. NUT 1/4-20	8
12	KE51588	LITRE METER, HOT WATER	1
13	NO640B2	3/4 NPT X 2 BRASS NIPPLE	2
14	FA3505-9	FLAT WASHER 1/4 S.S.	8
15	FA31029	LOCKWASHER 1/4 S.S.	8
16	NO640B375	NIPPLE 3/4 X 3 3/4 BRASS	2
17	F100152	STREET ELBOW 3/4 90D	1
18	F100152	ELBOW; STREET 3/4-90D	1
19	KE605115	DOUBLE CHECK VALVE 3/4"	1

SPRING ASSISTED 2 PIECE COVER WITH SCREEN **(KE003831)**



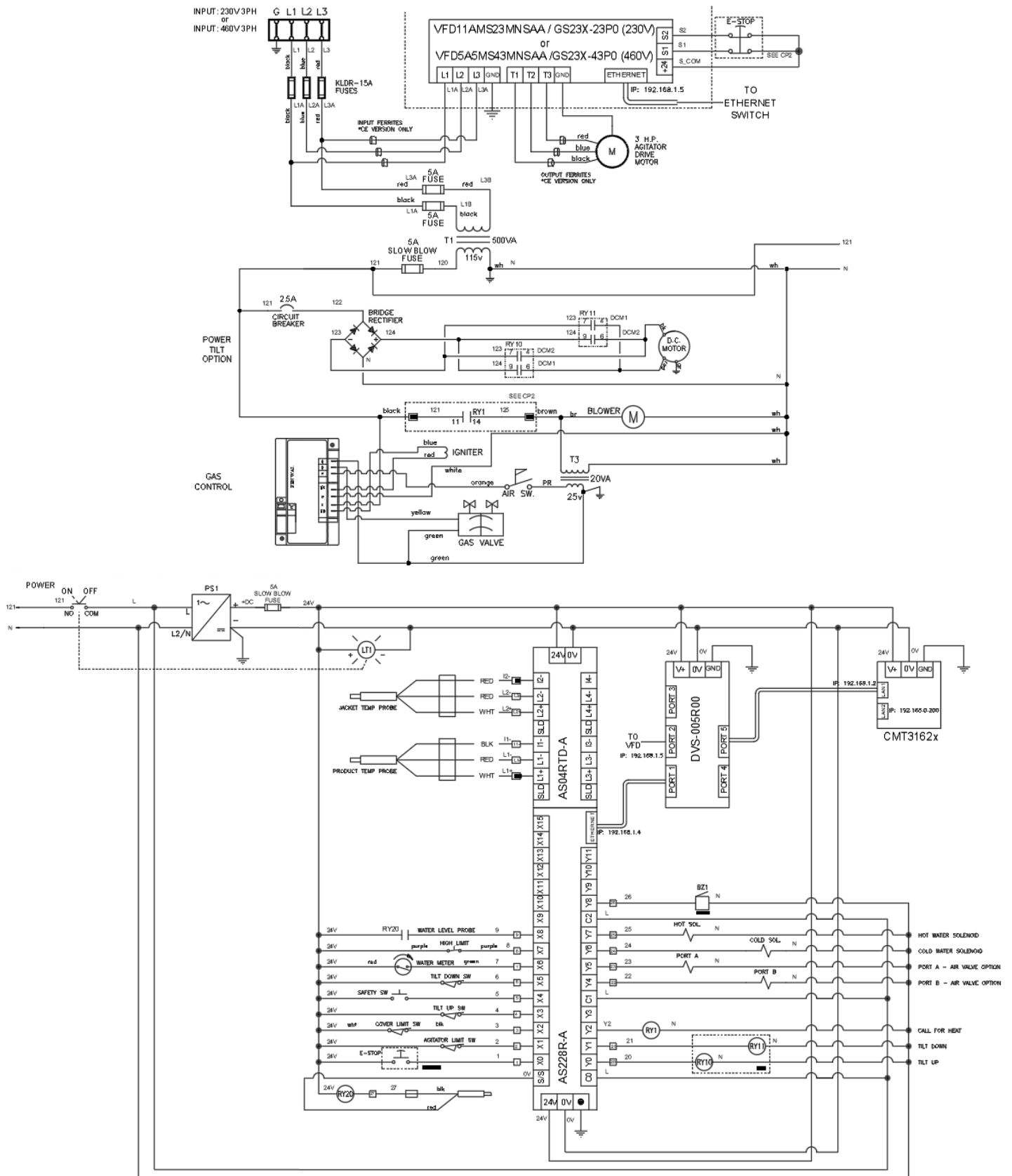
-	KE003831-1	SPRING ASSISTED 2-PIECE COVER WITH SCREEN: MTPS-60 HA, NO CP OPTION	▼					
-	KE003831-2	SPRING ASSISTED 2-PIECE COVER WITH SCREEN: MTPS-80 HA, NO CP OPTION		▼				
-	KE003831-3	SPRING ASSISTED 2-PIECE COVER WITH SCREEN: MTPS-100 HA, NO CP OPTION			▼			
-	KE003831-4	SPRING ASSISTED 2-PIECE COVER WITH SCREEN: MTPS-60 HA, CP OPTION				▼		
-	KE003831-5	SPRING ASSISTED 2-PIECE COVER WITH SCREEN: MTPS-80 HA, CP OPTION					▼	
-	KE003831-6	SPRING ASSISTED 2-PIECE COVER WITH SCREEN: MTPS-100 HA, CP OPTION						▼
ITEM	PART NUMBER	DESCRIPTION	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.
1	KE02320-1	2-PIECE COVER ASSEMBLY	1	-	-	1	-	-
	KE02320-2	2-PIECE COVER ASSEMBLY	-	1	-	-	1	-
	KE02320-3	2-PIECE COVER ASSEMBLY	-	-	1	-	-	1
2	KE003832-1	SCREEN WELDMENT	1	-	-	1	-	-
	KE003832-2	SCREEN WELDMENT	-	1	-	-	1	-
	KE003832-3	SCREEN WELDMENT	-	-	1	-	-	1
4	KE50151-2	KNOB HANDLE	1	1	1	1	1	1
5	KE00095	HANDLE HOLDER ASS'Y	1	1	1	1	1	1
6	KE51495	COVER HANDLE TUBING	2	2	2	2	2	2
7	KE53918	ANTI-ROTATION BRACKET	3	3	3	3	3	3
8	KE00597-4	HINGE ASSEMBLY	1	1	1	1	1	1
9	FA11322	HEX BOLT 5/16-18 X 1/2 LG, SS	4	4	4	4	4	4
10	FA31030	SPLIT LOCKWASHER 5/16	4	4	4	4	4	4
11	FA11507	SCREW, 10-24 THR'D CUT SS PAN	4	4	4	-	-	-
12	KE54907-10	PLUG BUTTON	2	2	2	2	2	2
13	FA11511-17	SCREW, TORX 10-24X 3/4	-	-	-	4	4	4
14	KE53398	LOCK PLATE	-	-	-	2	2	2
15	KE02130-13	COVER HANDLE WLDT	1	-	-	1	-	-
	KE02130-14	COVER HANDLE WLDT	-	1	-	-	1	-
	KE02130-15	COVER HANDLE WLDT	-	-	1	-	-	1
16	KE00597-7	HINGE ASSEMBLY	1	1	1	1	1	1

POWER CUT-OFF SWITCH



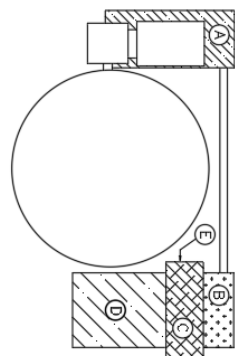
ITEM	PART #	DESCRIPTION	QTY.
243	KE604002	ACTUATOR BRACKET	1
244	KE603998	LIMIT SWITCH	1
245	KE604000	FIXED COVER	1
246	FA11146	10-32 X 1/2 SS SCREW	2
247	FA21007	10-32 HEX NUT 18.8 SS	1
248	FA30076	#10 FLAT WASHER	1
260	FA11609-4	1/4-20 HEX BOLT 18.8 SS	1
261	FA21008	1/4-20 HEX NUT 18.8 SS	2

WIRING DIAGRAM – HMI (208V - 480V)

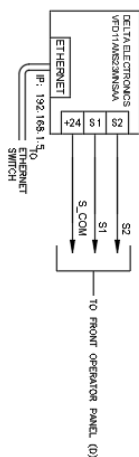


WIRING DIAGRAM - HMI POINT-TO-POINT (208V - 480V)

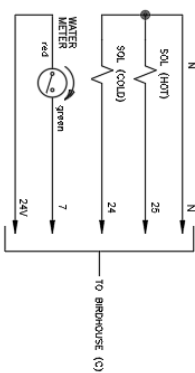
MIXER TOP VIEW - ELECTRICAL LOCATIONS



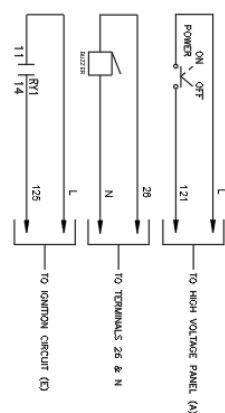
COMPONENTS IN ENCLOSURE A
HIGH VOLTAGE PANEL / VFD



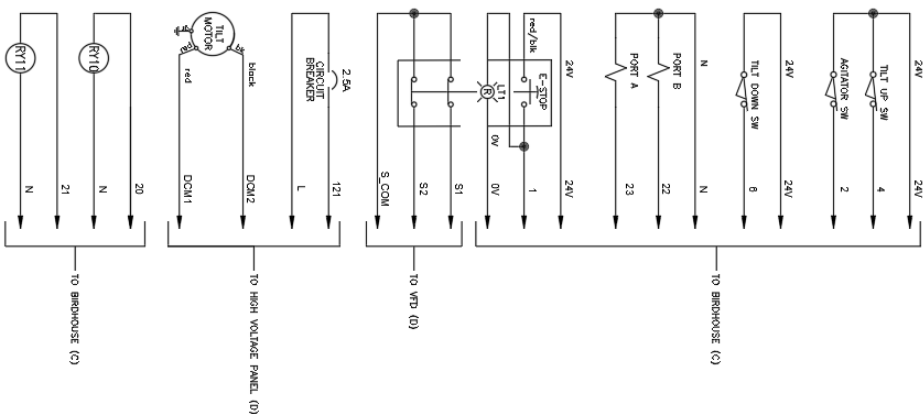
COMPONENTS IN ENCLOSURE B REAR OPERATOR PANEL



COMPONENTS IN ENCLOSURE C BIRDHOUSE

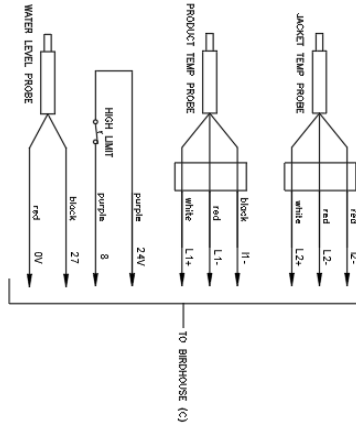


COMPONENTS IN ENCLOSURE 'D' FRONT OPERATOR PANEL / TILT MOTOR ENCLOSURE

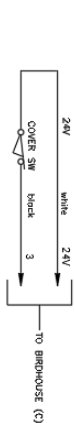


COMPONENTS IN ENCLOSURE 'E'
IGNITION / KETTLE

** CUSTOMER SUPPLIED COMPONENTS/CABLES

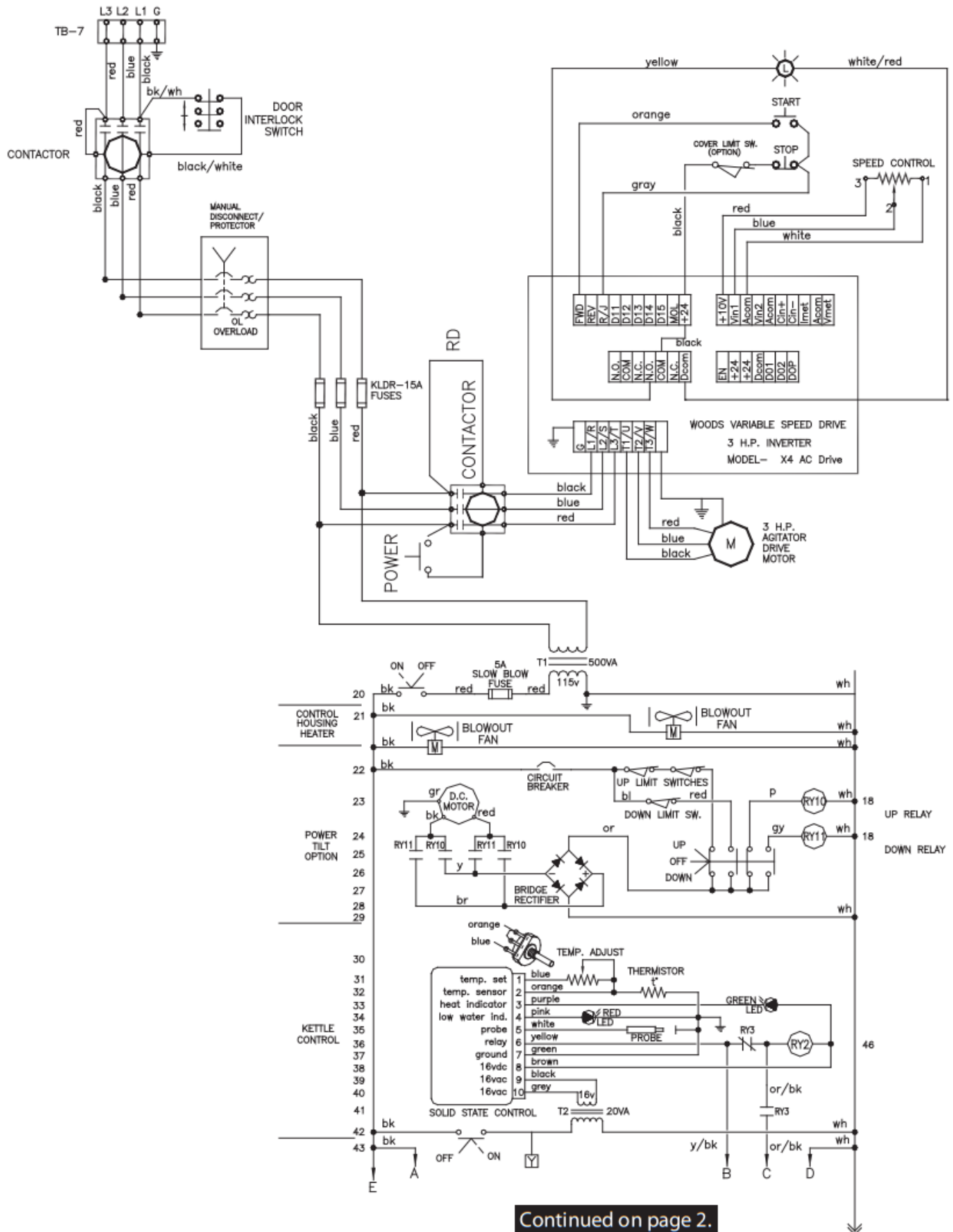


COVER LIMIT SWITCH



WIRING DIAGRAM (208-240V)

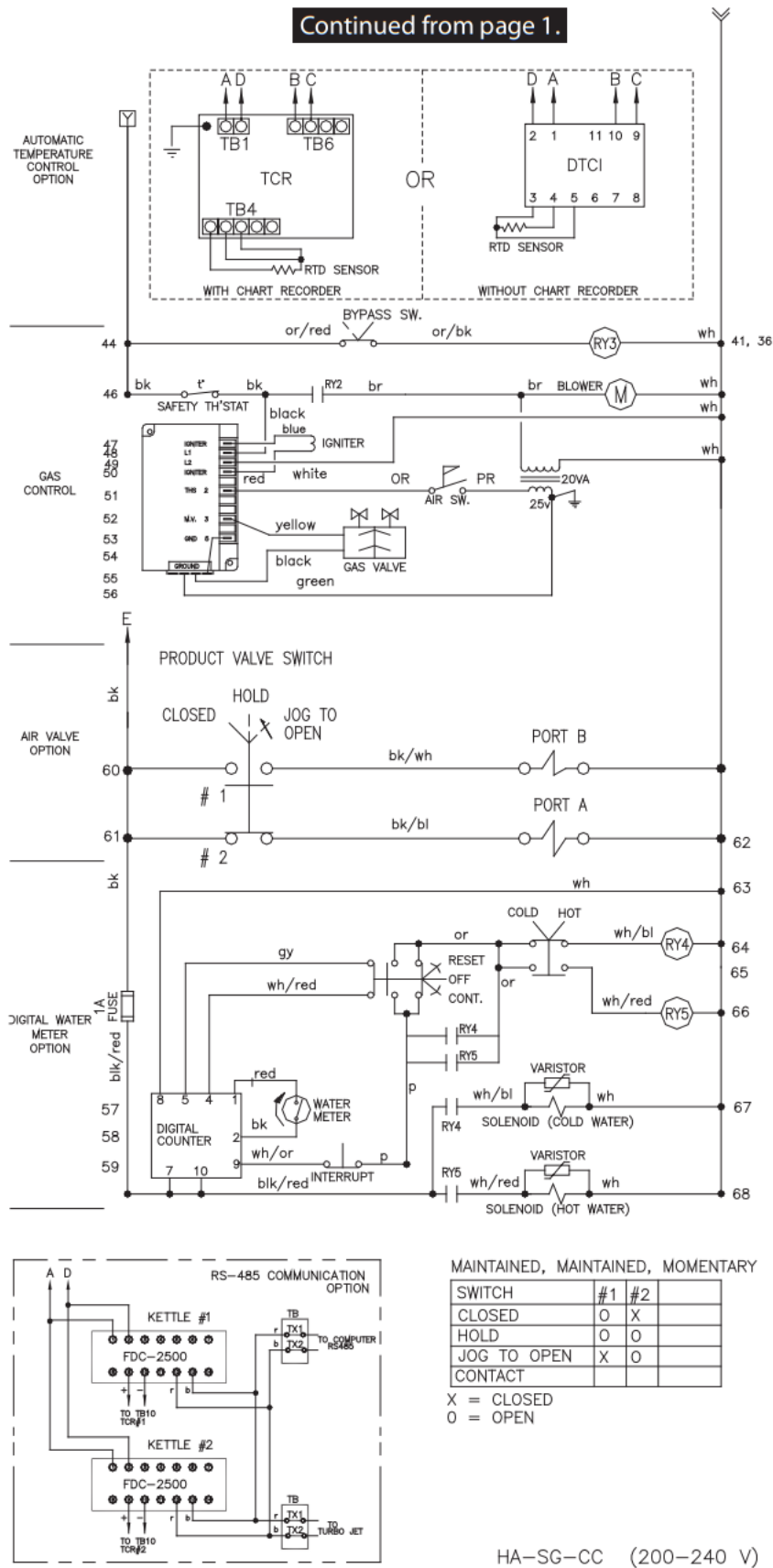
(Page 1 of 2)



Continued on page 2.

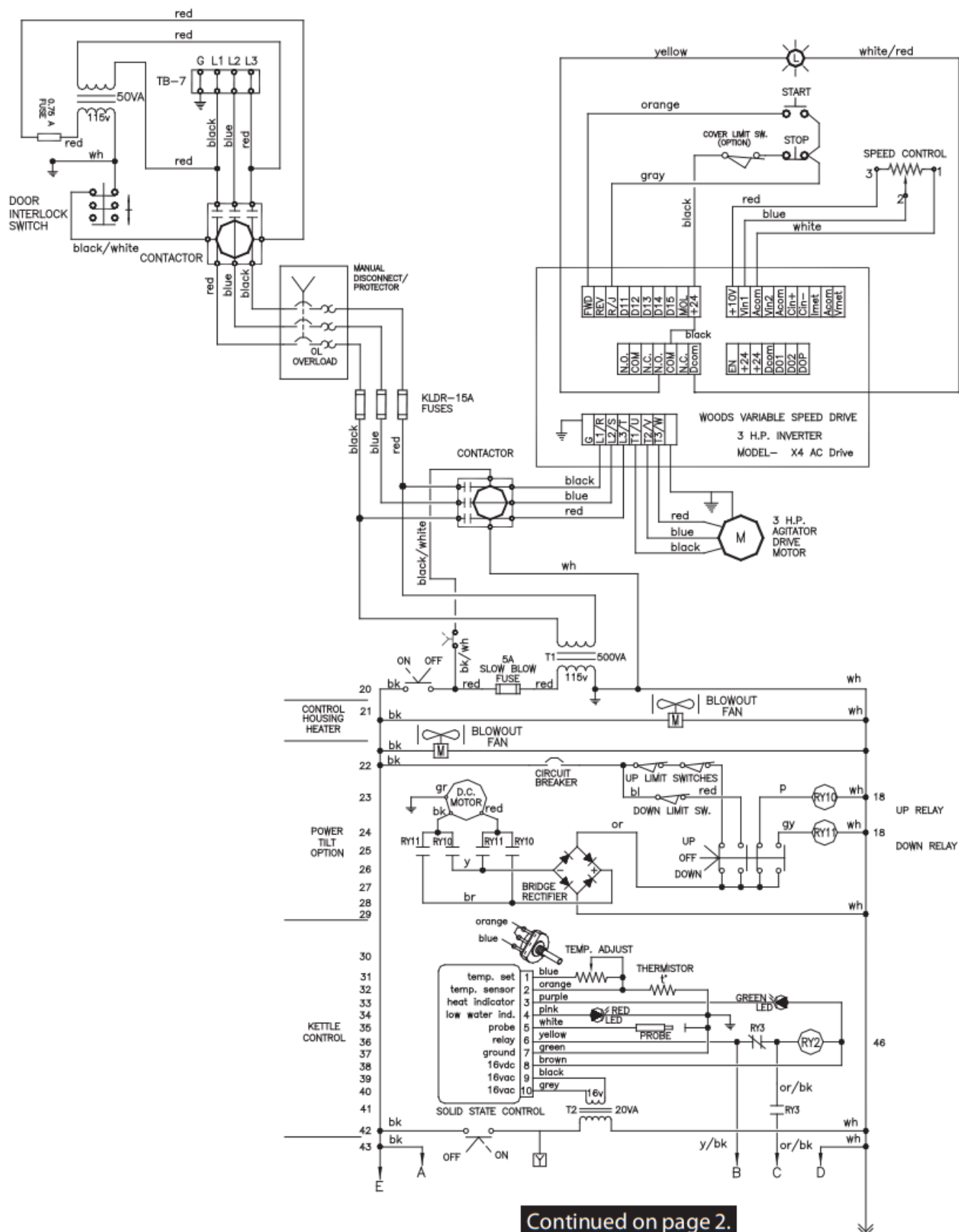
WIRING DIAGRAM (208-240V)

(Page 2 of 2)



WIRING DIAGRAM (460-480V)

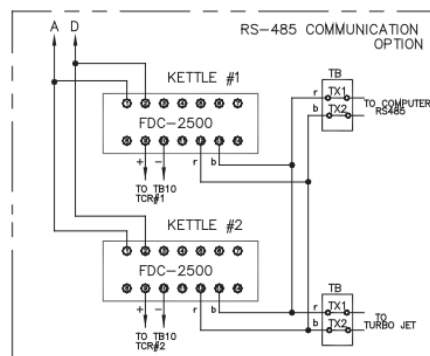
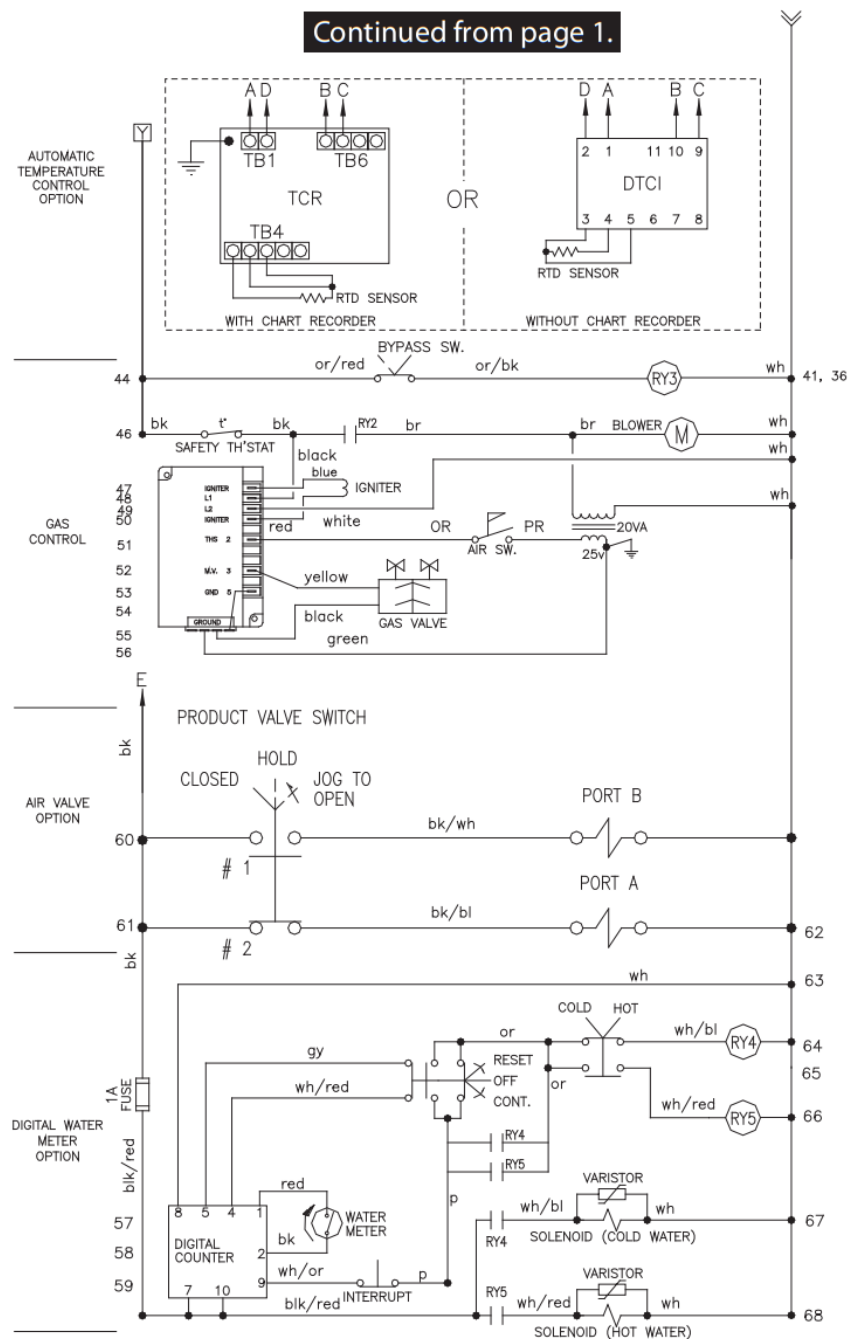
(Page 1 of 2)



Continued on page 2.

WIRING DIAGRAM (460-480V)

(Page 2 of 2)



MAINTAINED, MAINTAINED, MOMENTARY

SWITCH	#1	#2
CLOSED	O	X
HOLD	O	O
JOG TO OPEN	X	O
CONTACT		

X = CLOSED
O = OPEN

HA-MKGL/-T WITH
ALL OPTIONS (460-480 V)

SPARE PARTS LIST

The following is a spare parts listing of parts that wear during normal use or are apt to be misplaced during normal operation. These parts should be kept on hand to prevent loss time due to a minor problem.

PART #	DESCRIPTION	QUANTITY
KE54602-1	SCRAPER BLADE	1
KE54608	SPRING	3
FA05002-8	"O" RING	3
KE54594	PIN	1
KE54834-4	SOLENOID VALVE	1
FA05002-51	BUNA-N O-RING	5
FA05002-53	BUNA-N O-RING	5
FA05002-46	O-RING, FOOD GRADE, SIZE A0123, EPDM E 692-75	5
KE55297-3	GD2 STANDARD ACTUATOR	1
KE52936-18	FUSE, 15 AMP/600	6

The following is a recommended list of spare parts that may be required if the service agency is of some distance away or if down time must be kept to a minimum and spare parts are required for the service agent on site

PART #	DESCRIPTION	QUANTITY
KE54834-4	SOLENOID VALVE	1
KE02291-2	AIR OPERATED CYLINDER	1
KE53469-5	IGNITION MODULE	1
KE00458-1	SOLID STATE CONTROL	1
KE50753-7	RELAY, 12VDC	1
KE00515	THERMISTOR	1
KE603208-9	CONTACTOR CARTRIDGE, NORMALLY OPEN	2
KE603208-8	CONTACTOR CARTRIDGE, NORMALLY CLOSED	2
KE50753-10	RELAY, 120V	2

Cleveland

Cleveland Range, LLC
760 Beta Drive, Unit D
Mayfield Village, Ohio 44143
216.481.4900
800.338.2204

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