Mi-T-M® CORPORATION

8650 Enterprise Drive, Peosta IA 52068

TECHNICAL PARTS LIST FOR

GH-2004-1230 and GH-3004-1230

(Grainger Item # 1TDJ7 and Grainger Item # 1TDJ8)

HOT WATER PRESSURE WASHERS

MANUFACTURED FOR W.W. GRAINGER INC.
FOR REPLACEMENT PARTS CALL ***888-279-9274***

PUMP OIL GRADE:	**SAE20 or 30 Non-Detergent**
PUMP OIL CAPACITY:	**41oz.**
BTU INPUT:	
NATURAL GAS:	**338,000**
L.P.-GAS:	**326,000 (Vapor Only)**
PRESSURE NOZZLE:	
GH-2004:	**6.0**
GH-3004:	**4.5**

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This Parts Listing has been compiled for your benefit. You can be assured your hot water pressure washer was constructed and designed with quality and performance in mind. Each component has been rigorously tested to insure the highest level of acceptance.

The contents of this Parts Listing are based on the latest product information available at the time of publication. The manufacturer reserves the right to make changes in price, color, materials, equipment, specifications or models at any time without notice.

WARNING

THIS IS A PROFESSIONAL HIGH PRESSURE, HOT WATER PRESSURE WASHER. CAUTION SHOULD BE OBSERVED WHEN INSTALLING, USING OR REPAIRING THIS UNIT! READ AND FOLLOW THE SAFETY WARNINGS BEFORE ATTEMPTING ANY REPAIRS ON THIS PRESSURE WASHER!

SAFETY WARNINGS

1. NEVER alter or modify the equipment. Use only genuine manufacturer parts for repair of your pressure washer. Failure to do so can cause hazardous operating conditions and will VOID warranty. Repairs performed on this pressure washer should be done by a qualified serviceman in accordance with local, state and national regulations.

2. This unit has multiple safety devices which should never be altered, modified, removed or made inoperable. If a device fails, replace immediately with only genuine manufacturer replacement parts.

3. Gas System:
   Do not operate unit if gas smell exists. If you smell gas at any time, immediately shut off the gas supply to the unit and extinquish any open flame. L.P. gas is heavier than air and will gravitate to the floor. Do not resume operation until unit has been repaired and inspected by a qualified serviceperson.

4. Electrical System:
   The unit must be connected to a properly grounded electrical source which provides the correct voltage and adequate fuse protection. Disconnect from power source when making repairs. Never assume the pressure washer is safe to work on just because it is not operating. It could restart at any time. Never operate pressure washer with electrical enclosures open, removed or damaged. Do not allow metal components of the pressure washer to come in contact with live electrical components.

5. Do not operate the unit without all protective covers in place. Before servicing the unit, always shut off the unit and trigger the gun to release trapped pressure. Know how to stop the pressure washer and bleed pressures quickly. Be thoroughly familiar with controls. Be sure any accessory items and system components being used will withstand the pressure developed.

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NOTES

SERIAL BREAK NUMBER	SERIAL BREAK DESCRIPTION
#15045000	CHANGED PRESSURE SEAL ON PUMP 3-0202

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SPECIFICATIONS

GH-2004_3004-1230

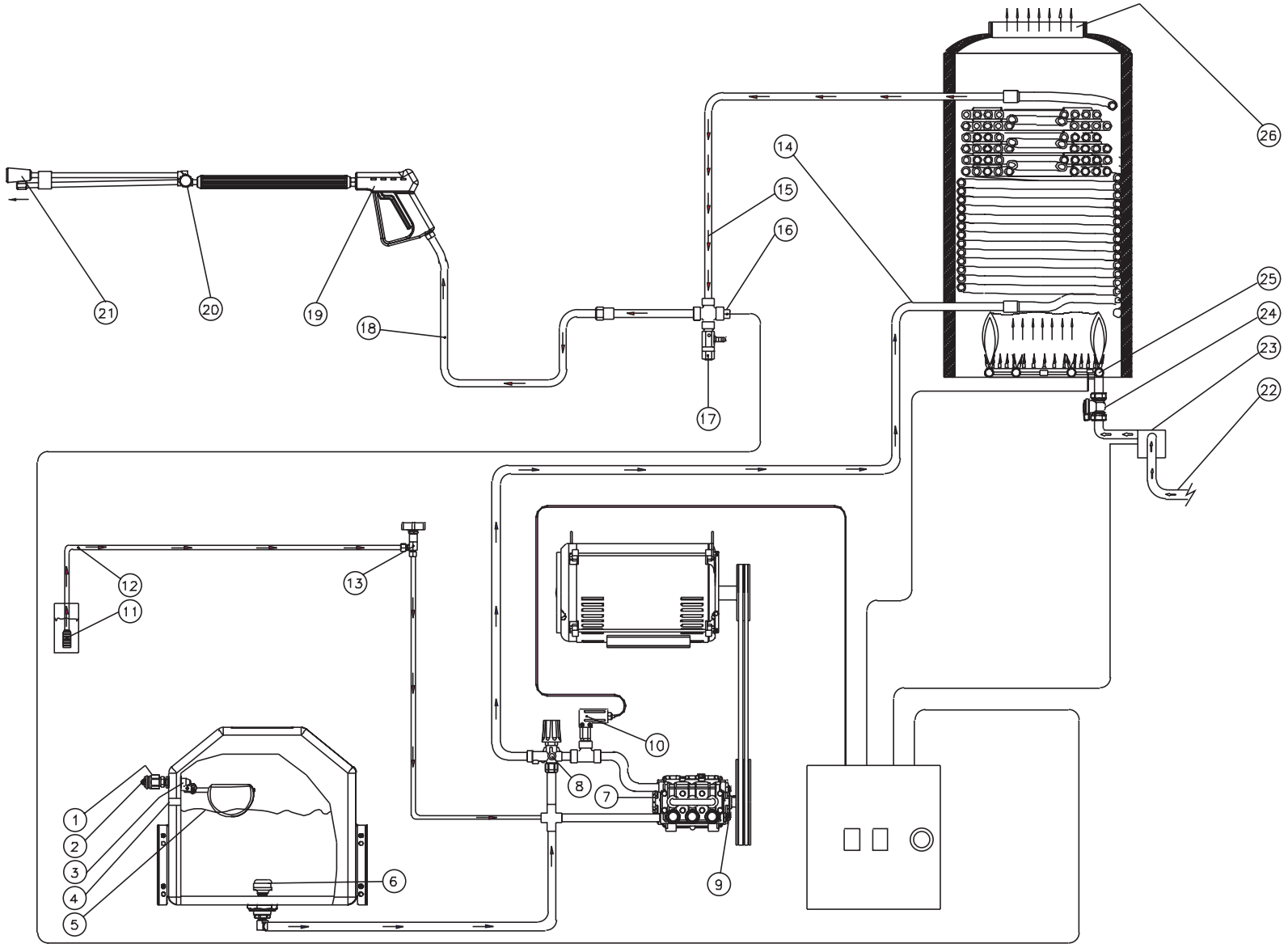
MODEL NUMBER	GH-2004-1230	GH-3004-1230
Operating Pressure (PSI/Bar):	2000/137.9	3000/206.8
Water Volume (GPM/lpm):	4.2/15.9	3.5/13.2
Motor:	ODP	ODP
Horsepower	6.0	8.0
Phase	1	1
Voltage	230	230
Amperage	25.5	37.0
Service Factor	1.15	1.15
Pump:	Belt Driven, Oil Bath, Triplex Piston	Belt Driven, Oil Bath, Triplex Piston
Oil Type	SAE20 or 30 Non-Detergent	SAE20 or 30 Non-Detergent
Oil Capacity (oz./liters)	41/1.2	41/1.2
Plungers	Ceramic	Ceramic
Manifold	Forged Brass	Forged Brass
Valves	Stainless Steel	Stainless Steel
Unloader:	Pre-set at the factory	Pre-set at the factory
Heat Dump Valve:	Relieves heated water during unloader bypass stage	Relieves heated water during unloader bypass stage
Burner	Natural Draft-Aspirating	Natural Draft-Aspirating
Fuel Type	Natural Gas	Natural Gas
Maximum Supply Pressure (W.C.)	13.0	13.0
Manifold Pressure (W.C.)	4.0	4.0
Fuel Orifice Size	#53	#53
Fuel Type	L.P.-Gas (Vapor Only)	L.P.-Gas (Vapor Only)
Maximum Supply Pressure (W.C.)	13.0	13.0
Manifold Pressure (W.C.)	9.5	9.5
Fuel Orifice Size	#64	#64
Heat Exchanger:		
Natural Gas BTU Input	338,000	338,000
L.P. BTU Input	326,000	326,000
Electric Controls:		
Motor Controls	Magnetic Starter With Bi-Metal Overload	Magnetic Starter With Bi-Metal Overload
Burner Controls	Rocker Switch	Rocker Switch
Control Voltage	24 Volt AC	24 Volt AC
Safety Devices:		
Pressure Switch	Shuts Off Burner Fuel Supply Upon Trigger Release	Shuts Off Burner Fuel Supply Upon Trigger Release
Thermostat	Adjustable	Adjustable
Relief Valve	Relieves Excessive System Pressure	Relieves Excessive System Pressure
High Pressure Nozzle Size:	6.0	4.5
Unit Net Weight (Lbs/kg):	665/302	693/314
Unit Shipping Weight (Lbs/kg):	785/356	813/369
Unit Net Dimension (In/cm):	56.5L x 29W x 49.75H/143.5L x 73.5W x 126.5H	56.5L x 29W x 49.75H/143.5L x 73.5W x 126.5H
Unit Shipping Dimension (In/cm):	57.5L x 35.5W x 59.5H/146L x 90W x 151H	57.5L x 35.5W x 59.5H/146L x 90W x 151H

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NOTES

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FLOW CHART



HEG FLOW DIAGRAM-021802-KZ

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GENERAL THEORY OF OPERATION

WATER FLOW: Connect a pressurized water source to the INLET GARDEN HOSE CONNECTION (1) and turn on the water supply. The water will flow through a WATER STRAINER (2) and then through a FLOAT VALVE (3) into a WATER FLOAT TANK (5). If the water rises above the OVERFLOW HOLES (4), the excess water will drain out of the float tank.

The water is then drawn through the WATER STRAINER (6) and into the TRIPLEX HIGH PRESSURE PUMP (7) which has an UNLOADER (8) that bypasses the water when the trigger gun is closed. To protect the pump from heated water during this bypass stage, a HEAT DUMP VALVE (9) will open at 125°F/52°C allowing the heated water to escape. The Heat Dump Valve automatically resets when the water cools. Attached to the pump is a PRESSURE SWITCH (10) that controls the fuel supply to the burner.

When using detergents, the solution passes through the DETERGENT STRAINER (11) located on the DETERGENT HOSE (12). The detergent solution then travels through the DETERGENT METERING VALVE (13).

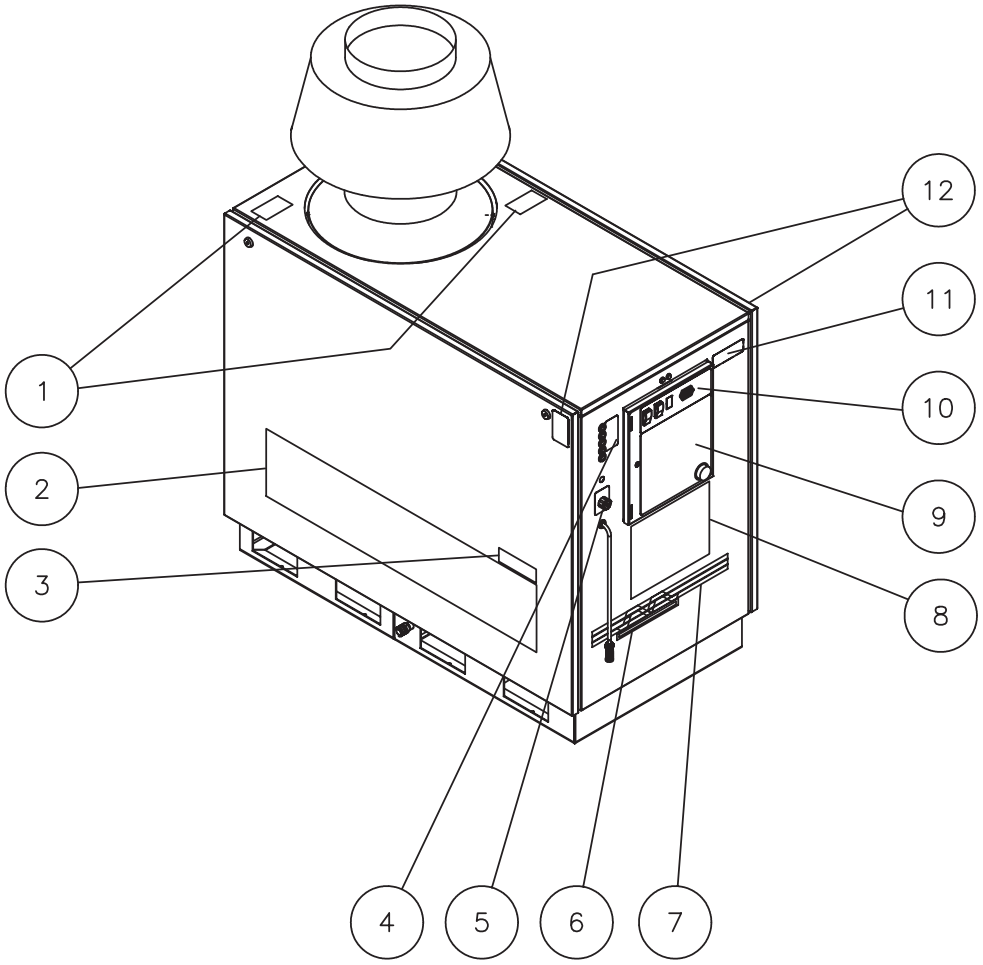
From there, the water flows through the HEAT EXCHANGER INLET (14) where it is heated when the burner is on. As the water exits the HEAT EXCHANGER OUTLET (15), it enters a safety system which protects the operator from danger. The safety system contains a HIGH PRESSURE LIMIT SWITCH (16) which senses the water temperature and shuts off the fuel supply to the burner if the water gets too hot. If the unloader fails to bypass water or the burner remains on when the trigger gun is closed, the SAFETY RELIEF VALVE (17) will relieve and allow water to exit safely.

The heated water then flows through the HIGH PRESSURE HOSE (18) and to the TRIGGER GUN ASSEMBLY (19) which allows the operator to control the water supply. When the trigger gun is open, the water flows through the ADJUSTABLE PRESSURE DUAL LANCE (20) and exits the NOZZLES (21).

GAS FLOW: The gas passes through the GAS INPUT (22) to the MAIN GAS VALVE (23) which regulates the gas to the appropriate pressure. The gas then flows through the GAS SHUT-OFF VALVE (24) and to the BURNER RING (25). Heat and fumes exit the coil through the EXHAUST STACK (26).

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DECAL PLACEMENT

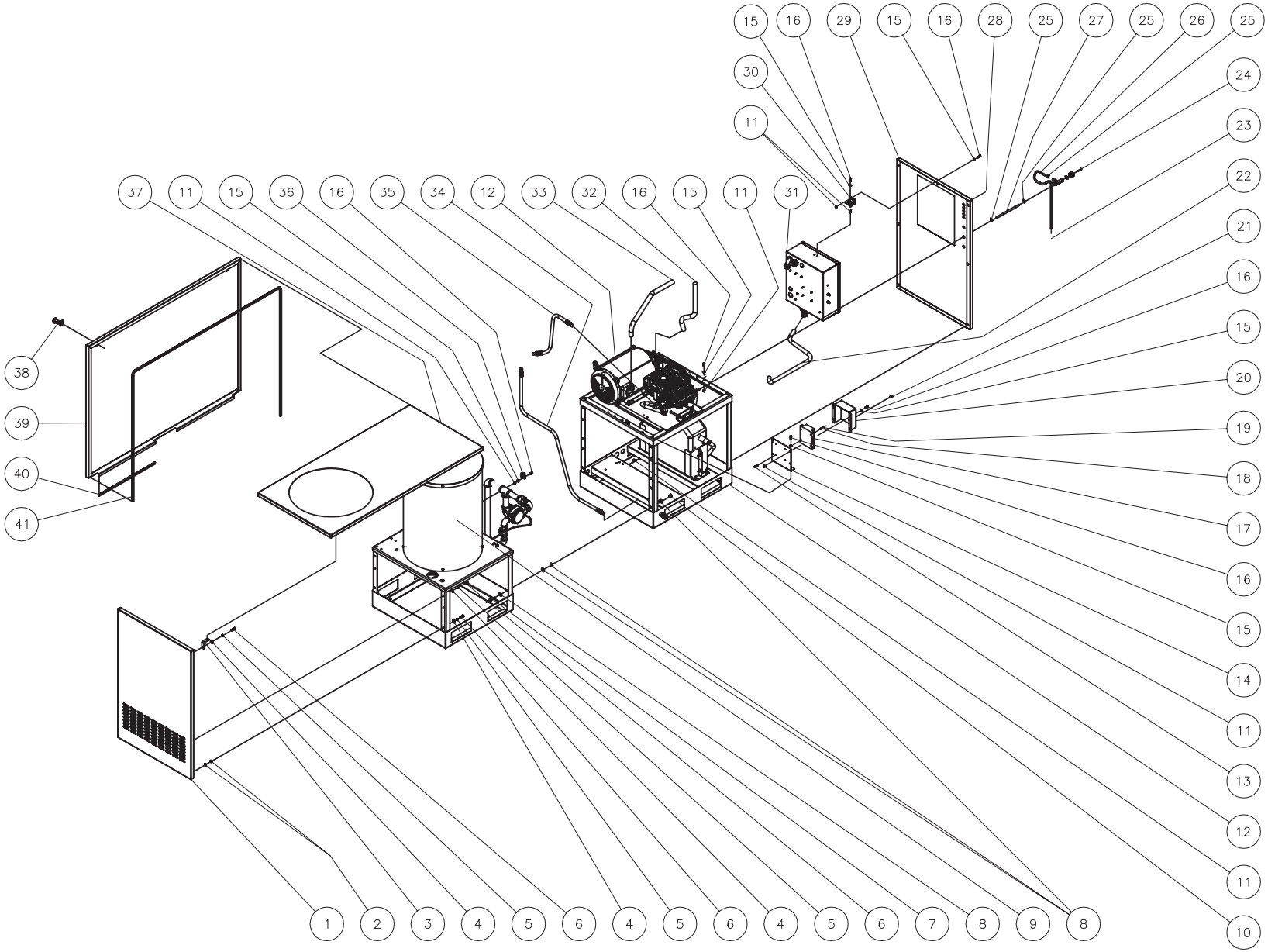


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DECAL PLACEMENT			
REF. #	**DESCRIPTION**	**PART #**	**QTY.**
1	Decal- Warning: Hot Surface (E/F/S) (See 34-9021)	N/A Sep.	2
2	Decal- Mi-T-M Logo Large	34-0350	1
3	Decal- White Die Cut 2004 (GH-2004)	34-0036	1
-	Decal- White Die Cut 3004 (GH-3004)	34-0105	1
4	Decal- Nozzles	34-1298	1
5	Decal- Detergent Valve (E/F/S) (See 34-9021)	N/A Sep.	1
6	Decal- Mi-T-M Gold Logo	62-0087	1
7	Decal- Stripe	34-0501	1
8	Decal- Warning/Caution (E/F/S) (See 34-9021)	N/A Sep.	1
9	Decal- Operation (E/F/S) (See 34-9021)	N/A Sep.	1
10	Decal- E-Box Switches Pump/Burner (E/F/S) (See 34-9021)	N/A Sep.	1
11	Decal- Grainger 800-648-8478	34-1444	1
12	Decal- Warning: Risk of Injury/Exposed Pulleys (E/F/S) (See 34-9021)	N/A Sep.	2
	Safety Decal Kit (Includes 1, 5, 8, 9, 10, 12)	34-9021	

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FRAME ASSEMBLY



HEG BOX PANEL OPTION-071002-KZ

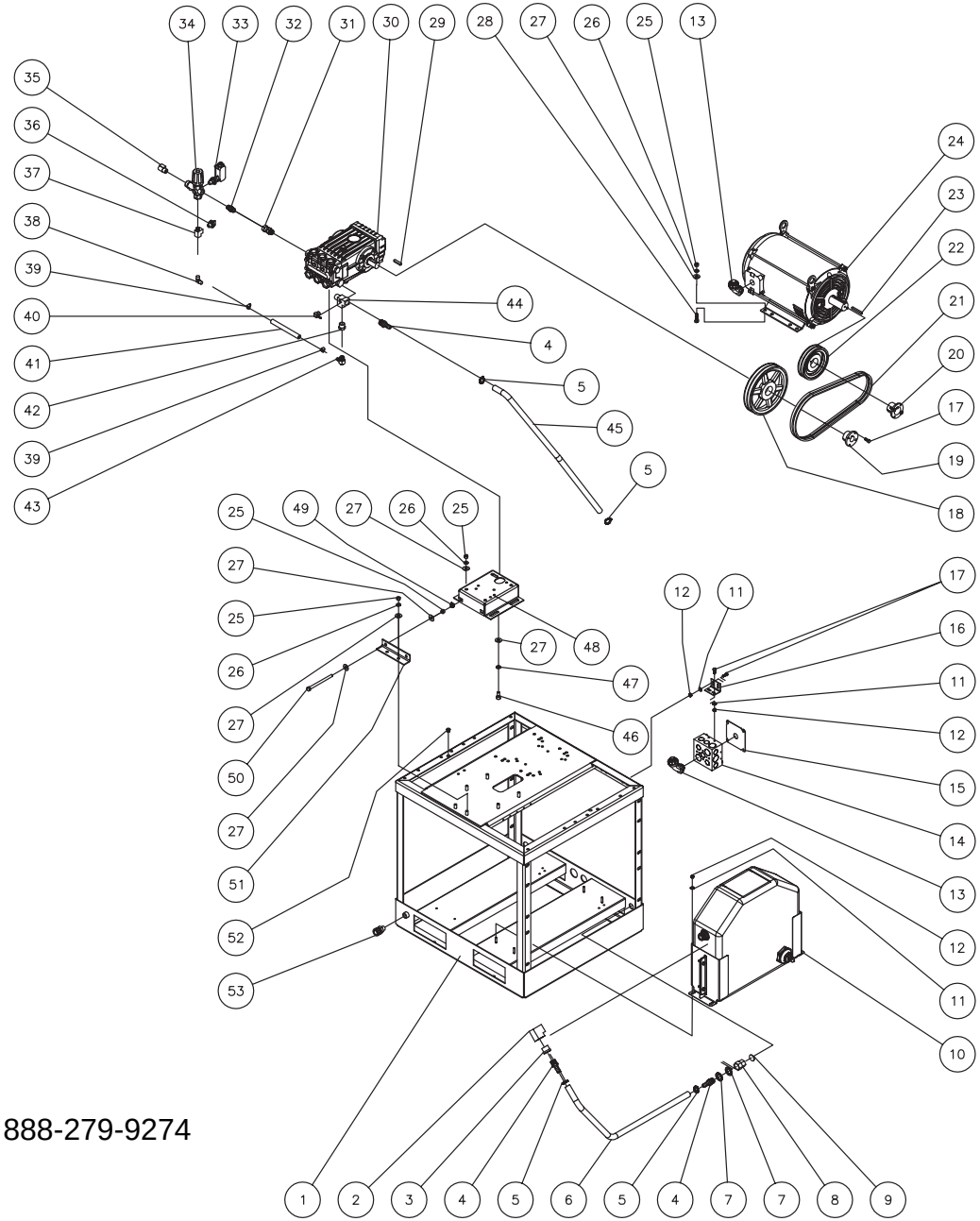
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For parts Call 888-279-9274

FRAME ASSEMBLY							
REF. #	**DESCRIPTION**	**PART #**	**QTY.**	**REF. #**	**DESCRIPTION**	**PART #**	**QTY.**
1	Natural Gas Side End Panel	20-0640A18	1	22	Conduit *(Four Feet Required)	32-0253	1
2	Washer	28-0003	8	23	Detergent Strainer w/Check	19-0056	1
3	Angle Support	13-0102A01	4	24	Detergent Valve	22-0226	1
4	Washer	28-0022	16	25	Clamp Worm	42-0004	3
5	Lockwasher	29-0007	16	26	Detergent Hose *(Six Feet Required)	15-0021	1
6	Bolt	27-0067	16	27	Detergent Hose *(One Foot Required)	15-0079	1
7	Bolt	27-0119	4	28	Grommet	33-0001	6
8	Flatwasher	28-0023	16	29	Natural Gas E-Box End Panel	20-0637A18	1
9	Burner Assembly (See Exploded Drawing)	N/A Sep.	1	30	E-Box Bracket	20-0626A18	1
10	Locknut	30-0159	4	31	Three Phase Electric Box Assembly (See Exploded Drawing)	N/A Sep.	1
11	Locknut	30-0155	13	-	Single Phase Electric Box Assembly (See Exploded Drawing)	N/A Sep.	1
12	Motor Base Assembly (See Exploded Drawing)	N/A Sep.	1	32	Conduit *(Two Feet Required)	32-0486	1
13	Bolt	27-8807	2	33	Conduit *(Two Feet Required)	32-0486	1
14	Bracket	20-0657A18	1	34	High Pressure Hose Assembly - Coil Outlet to Outlet Q.C.	15-0186	1
15	Washer	28-0002	13	35	High Pressure Hose Assembly- Pump Outlet to Coil Inlet	15-0194	1
16	Bolt	27-0015	13	36	Hose Clamp	33-0291	1
17	Ignition Modular	32-0319	1	37	Top Panel	20-0638A18	1
18	Lockwasher	28-1009	2	38	Latch	33-0128	4
19	Nut	30-6001	2	39	Natural Gas Side Panel	20-0639A18	2
20	Ignitor Cover	20-0656A18	1	40	Trimlock	33-0020	4
21	Bushing	9-0028	1	41	Trimlock w/Seal	33-0129	2
*Must Order in One Foot Lengths							

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MOTOR BASE ASSEMBLY



For parts Call 888-279-9274

HEG MOTOR BASE ASSY-102805-KZ

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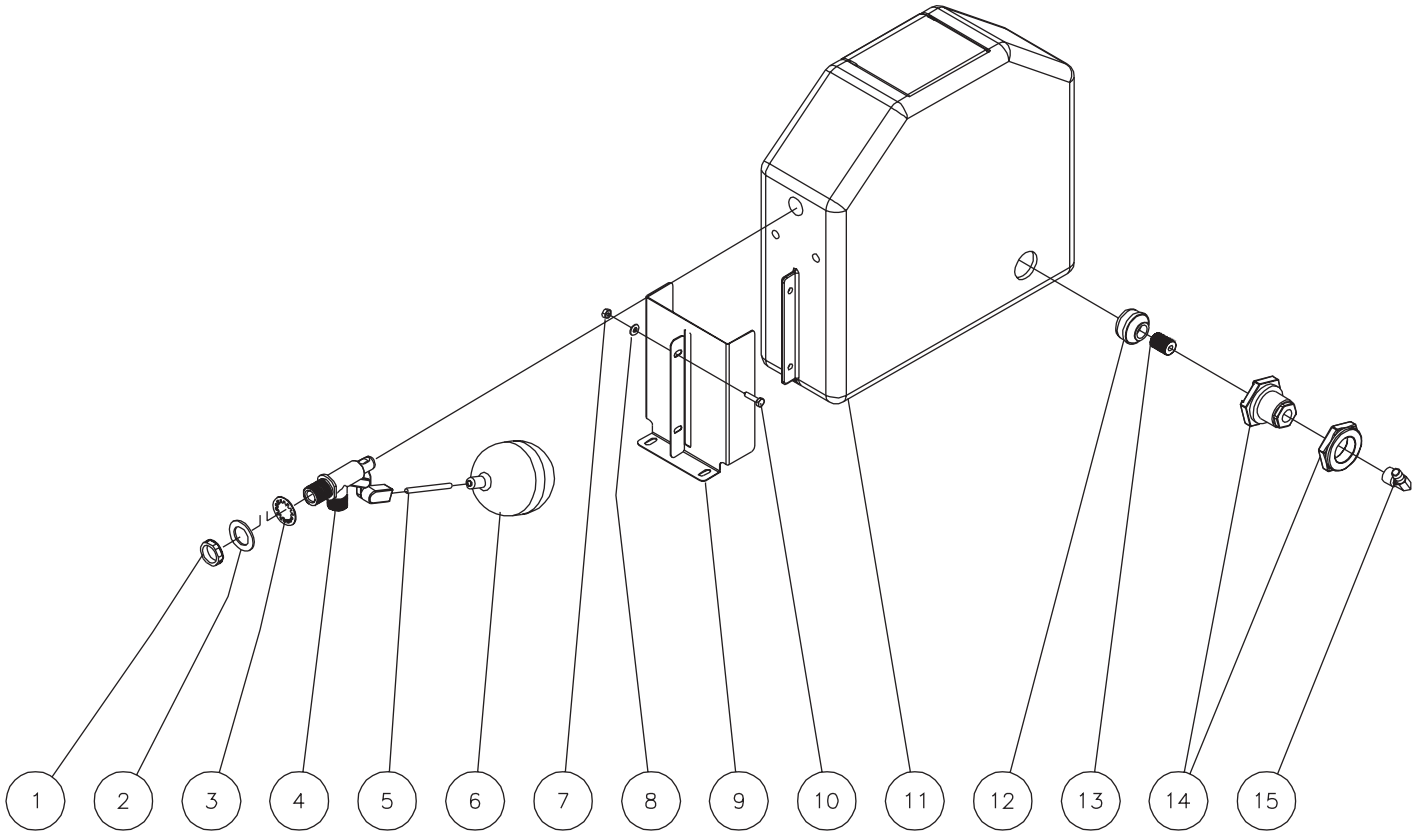
MOTOR BASE ASSEMBLY (AFTER SERIAL #15024154)

REF. #	DESCRIPTION	PART #	QTY.	REF. #	DESCRIPTION	PART #	QTY.	REF. #	DESCRIPTION	PART #	QTY.
1	Motor Pump Base Assembly	5-0173A18	1	20	Bushing (GH-2004)	9-0010	1	35	Elbow	23-0034	1
2	Elbow	23-0391	1	-	Bushing (GH-3004)	9-0008	1	36	Thermo Valve	22-0208	1
3	Reducer	23-0023	1	21	Belt (GH-2004)	11-0008	2	37	Street Tee	23-0127	1
4	Hose Barb	23-0045	3	-	Belt (GH-3004)	11-0057	2	38	Elbow	23-0123	1
5	Worm Clamp	42-0011	4	22	Motor Sheave (GH-2004)	10-0036	1	39	Clamp Worm	42-0004	2
6	Bypass Hose *(Three Feet Required)	15-0007	1	-	Motor Sheave (GH-3004)	10-0041	1	40	Elbow	23-0054	1
7	Washer	28-0051	2	23	Keystock w/Motor	43-0078	1	41	Hose *(One Foot Required)	15-0020	1
8	Garden Hose Swivel	23-0001	1	24	Motor (GH-2004-1230)	2-0107	1	42	Bushing	23-0016	1
9	Inlet Washer Filter w/Screen	19-0001	1	-	Motor (GH-3004-1230)	2-0109	1	43	Elbow	23-0074	1
10	Float Tank Assemlby (See Exploded Drawing)	N/A Sep.	1	25	Hex Nut	30-0006	12	44	Street Tee	23-0388	1
11	Washer	28-0002	8	26	Lockwasher	29-0008	10	45	By-pass Hose *(Three Feet Required) (GH-2004/3004)	15-0007	1
12	Locknut	30-0155	8	27	Flatwasher	28-0023	15	46	Bolt	27-8471	4
13	Conduit Elbow	32-0487	2	28	Bolt	27-0118	4	47	Lockwasher	29-0055	4
14	Electrical Junction Box	32-0310	1	29	Pump Key	43-0048	1	48	Pump Hat	5-0153A18	1
15	Cover	33-0017	1	30	Pump	3-0202	1	49	Clip Nut	30-6025	2
16	E-Box Bracket	20-0626A18	1	31	Swivel	24-0037	1	50	Bolt	27-0133	2
17	Bolt	27-0015	6	32	Nipple	24-0002	1	51	Tension Bracket	20-0584A18	1
18	Sheave	10-0007	1	33	Pressure Switch	22-0171	1	52	Snap Bushing	9-0028	1
19	Bushing	9-0017	1	34	Unloader Assembly	850-0252	1	53	Quick Connect Socket	17-0007	1

*Must Order in One Foot Lengths

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FLOAT TANK ASSEMBLY



HEG FLOAT TANK ASSY-033004-KZ

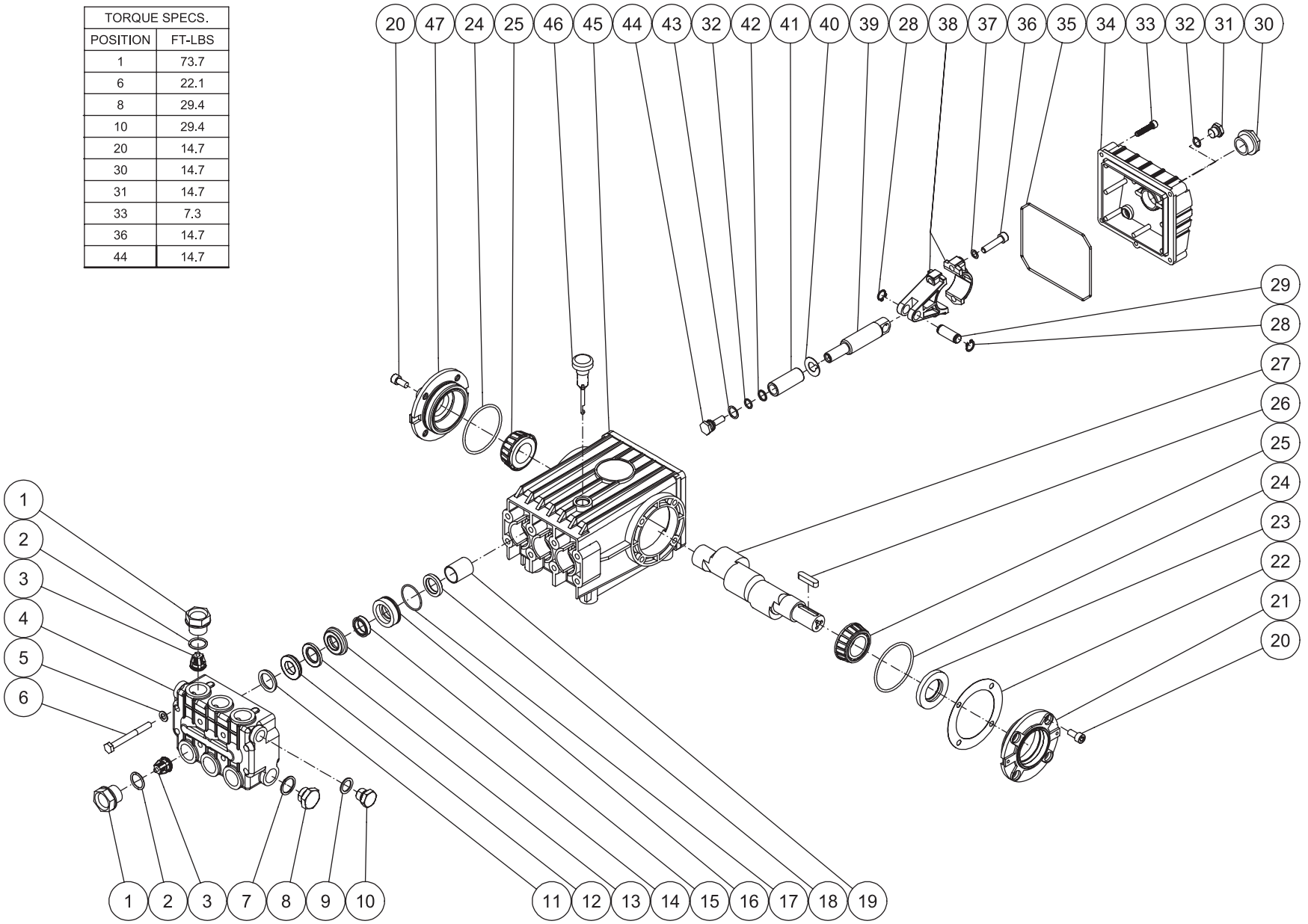
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FLOAT TANK ASSEMBLY			
REF. #	**DESCRIPTION**	**PART #**	**QTY.**
1	Locknut	23-0428	1
2	Washer	28-0009	1
3	Lockwasher	29-0074	1
4	Float Valve	22-0317	1
5	Rod	31-3320	1
6	Float Ball	22-0059	1
7	Hex Nut	30-0155	4
8	Flatwasher	28-0002	4
9	Float Tank Mounting Bracket	20-0586A18	2
10	Bolt	27-0016	4
11	Float Tank Assembly (Inc. 11, 14)	850-0350	1
12	Filter	19-0203	1
13	Close Nipple	23-0019	1
14	Bulkhead	55-0886	1
15	Elbow (HG-2004/3004)	23-0418	1

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PUMP ASSEMBLY (3-0202) (BEFORE SERIAL #15045000)

TORQUE SPECS.	
POSITION	FT-LBS
1	73.7
6	22.1
8	29.4
10	29.4
20	14.7
30	14.7
31	14.7
33	7.3
36	14.7
44	14.7



3-0202_3-0203 082306-RSW

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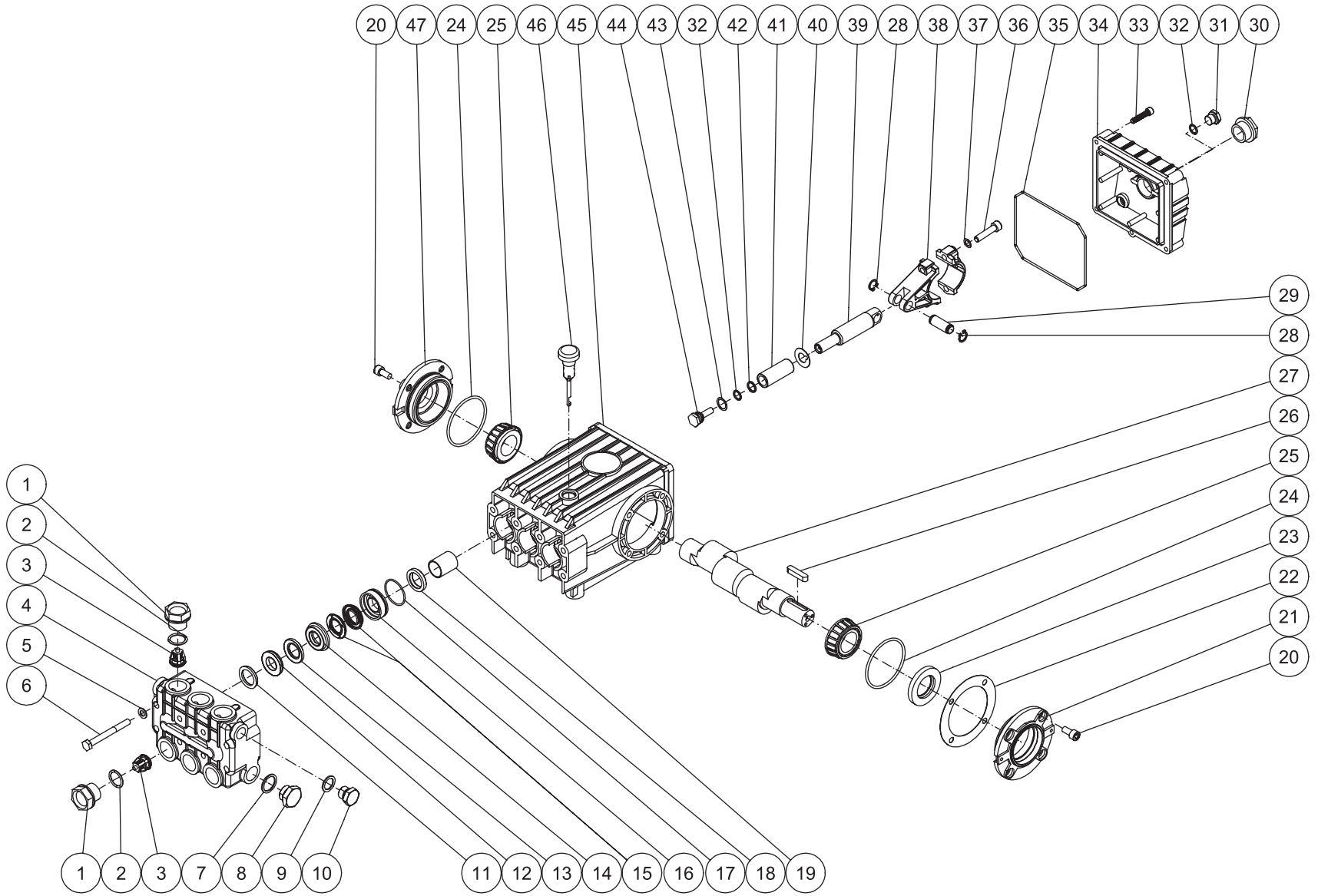
3-0202/3-0203-082306-RSW

PUMP ASSEMBLY (3-0202 AND 3-0203)

REF. #	DESCRIPTION	PART #	QTY.	REF. #	DESCRIPTION	PART #	QTY.	REF. #	DESCRIPTION	PART #	QTY.
1	Valve Plug	46-0889	6	19	Bushing	9-0029	3	36	Bolt	27-8435	6
2	O-ring	25-0012	6	20	Bolt	27-8431	8	37	Lockwasher	29-0154	6
3	Valve Assembly (Inc. 11-15) (See 70-0009)	N/A Sep.	6	21	Crankcase Cover	46-0296	1	38	Connecting Rod	46-0051	3
4	Manifold	46-0890	1	22	Shim	46-0113	1	39	Piston Rod	46-0056	3
5	Flatwasher	28-1039	8	23	Oil Seal	26-0049	1	40	Washer	46-0146	3
6	Bolt	27-8185	8	24	O-ring	25-0013	2	41	Plunger	46-0052	3
7	Washer	28-1038	1	25	Bearing	48-0012	2	42	Back-up Ring	46-0109	3
8	Plug	39-0019	1	26	Key	43-0048	1	43	Gasket	28-0400	3
9	Washer	28-1002	1	27	Crankshaft (Pump 3-0203)	46-0050	1	44	Bolt	46-0069	3
10	Plug	39-0018	1	-	Crankshaft (Pump 3-0203)	46-0888	1	45	Crankcase	46-0047	1
11	High Pressure Head Ring (See 70-0030)	N/A Sep.	3	28	Retaining Ring	46-0103	6	46	Oil Dip Stick	46-0144	1
12	V-Packing Support (See 70-0299)	N/A Sep.	3	29	Connecting Rod Pin	43-0032	3	47	Crankcase Cover	46-0336	1
13	O-ring (See 70-148, 70-0299, 70-0300)	N/A Sep.	6	30	Oil Level Indicator	46-0114	1		Valve Assembly (6 each 3)	70-0009	
14	High Pressure Intermediate Seal Retainer	46-0659	3	31	Plug	39-0017	1		Head Ring Kit (3 each 11)	70-0030	
15	Low Pressure Seal	46-0886	3	32	O-ring	25-0014	4		V-Packing Kit (3 each 12, 13, 15)	70-0299	
16	Low Pressure Seal Retainer	46-0887	3	33	Bolt	27-8404	5		Intermediate Retainer Kit (3 each 13, 14)	70-0148	
17	O-ring	25-0015	3	34	Crankcase Open Cover	46-0295	1		Low Pressure Seal Kit (3 each 15, 16, 17)	70-0298	
18	Oil Seal	26-0047	3	35	O-ring Cover	25-0339	1		V-Packing Assembly (1 each Inc. 11-17)	70-0300	

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PUMP ASSEMBLY (3-0202) (AFTER SERIAL #15045000)



3-0202_3-0203 010408-JJT

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3-0202_3-0203-010408-JJT

PUMP ASSEMBLY

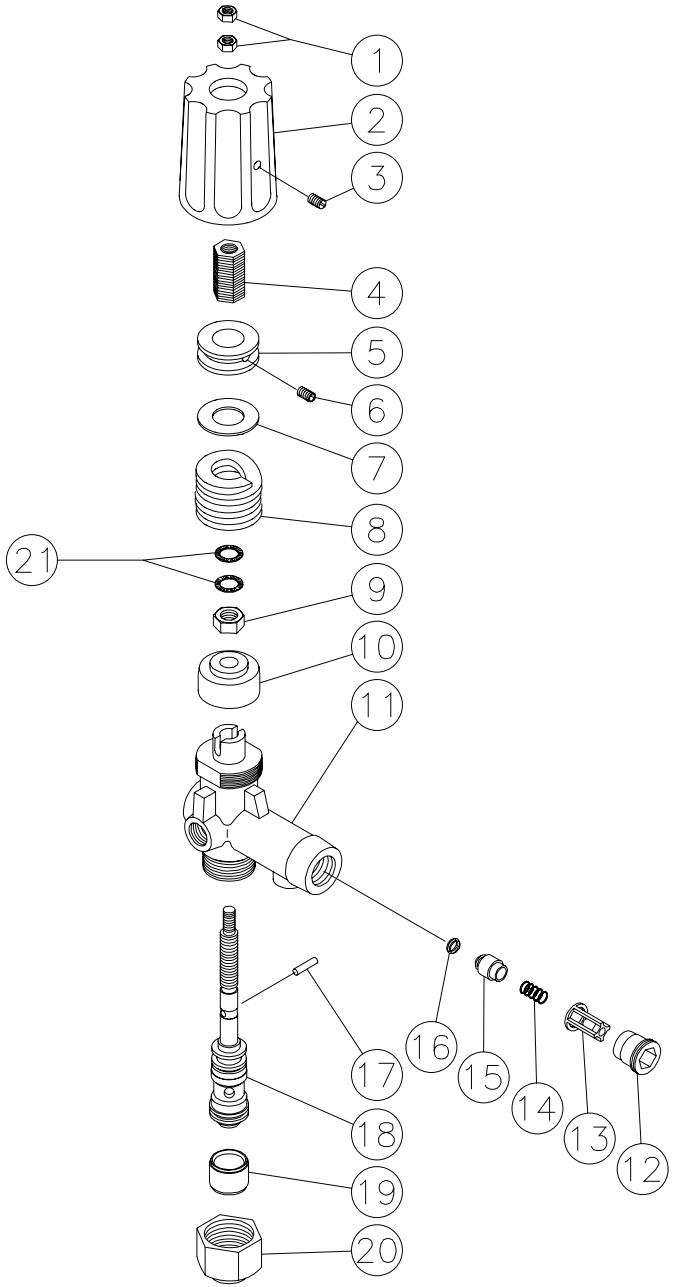
REF. #	DESCRIPTION	PART #	QTY.
1	Valve Plug	46-0889	6
2	O-ring	25-0012	6
3	Valve Assembly (See 70-0009)	N/A Sep.	6
4	Manifold	46-0890	1
5	Flatwasher	28-1039	8
6	Bolt	27-8185	8
7	Washer	28-1038	2
8	Plug	39-0019	2
9	Washer	28-1002	2
10	Plug	39-0018	2
11	O-ring (See 70-0030)	N/A Sep.	3
12	V-Packing	26-0098	3
13	Ring	25-0207	3
14	High Pressure Intermediate Seal Retainer	46-0659	3
15	Low Pressure Seal	N/A Sep.	3
16	Low Pressure Seal Retainer	46-0057	3
17	O-ring	25-0015	3

REF. #	DESCRIPTION	PART #	QTY.
18	Oil Seal	26-0047	3
19	Bushing	9-0029	3
20	Bolt	27-8431	8
21	Crankcase Open Cover	46-0296	1
22	Shim	46-0113	1
23	Oil Seal	26-0049	1
24	O-ring	25-0013	2
25	Bearing	48-0012	2
26	Key	43-0048	1
27	Crankshaft	N/A	1
28	Retaining Ring	46-0103	6
29	Connecting Rod Pin	43-0032	3
30	Oil Level Indicator	46-0114	1
31	Plug	39-0017	1
32	O-ring	25-0014	4
33	Bolt	27-8404	5
34	Crankcase Cover	46-0295	1

REF. #	DESCRIPTION	PART #	QTY.
35	O-ring Cover	25-0339	1
36	Bolt	27-8435	6
37	Lockwasher	29-0154	6
38	Connecting Rod	46-0051	3
39	Piston Rod	46-0056	3
40	Washer	46-0146	3
41	Plunger	46-0052	3
42	Back-up Ring	46-0109	3
43	Washer	28-0400	3
44	Bolt	46-0069	3
45	Crankcase	46-0047	1
46	Oil Dip Stick	46-0144	1
47	Crankcase Cover	46-0336	1
	Valve Kit (6 each 3)	70-0009	
	Head Ring Kit (3 each 11)	70-0030	
	V-Packing Kit (3 each 12, 13, 15)	70-0147	
	Intermediate Retainer Kit (3 each 13, 14)	70-0148	
	V-Packing Assembly (3 each 11-17)	852-0122	

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UNLOADER (850-0252)



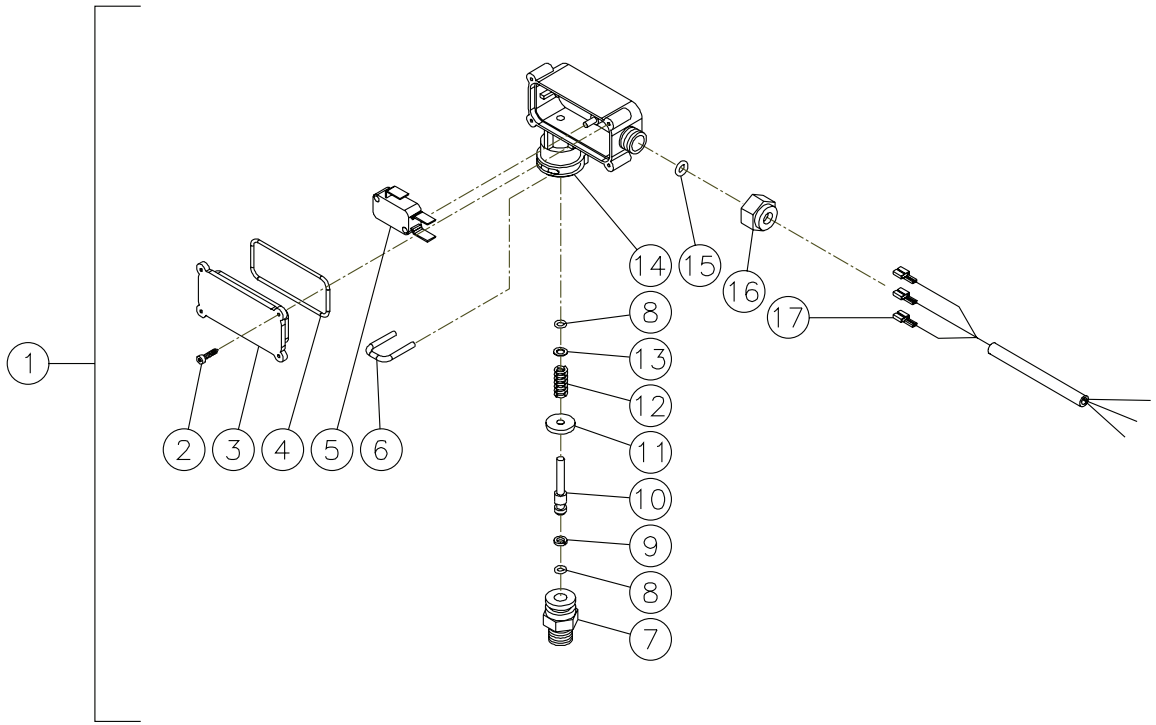
OMGEN163-101298-BAR

UNLOADER (850-0252)			
REF. #	**DESCRIPTION**	**PART #**	**QTY.**
1	Hex Nut	8-0362	2
2	Cover	7-0098	1
3	Set Screw	27-4280	1
4	Adjusting Insert- Brass	8-0363	1
5	Adjustment Nut	8-0364	1
6	Set Screw	8-0365	1
7	Glide Ring	8-0366	1
8	Spring	49-0104	1
9	Hex Nut	8-0367	1
10	Bushing	8-0368	1
11	Unloader Body	8-0369	1
12	Retainer	8-0269	1
13	Valve Housing	8-0104	1
14	Spring	49-0023	1
15	Valve	8-0105	1
16	O-ring	25-0036	1
17	Cylinder Pin	8-0372	1
18	Piston Repair Kit	70-0243	1
19	Spacer	8-0371	1
20	Stop Nut	8-0157	1
21	Washer	29-0154	2
	Check Valve Repair Kit (Includes 13-16)	70-0244	
	Unloader Complete	850-0252	

OMGEN163-101298-BAR

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PRESSURE SWITCH (22-0171)



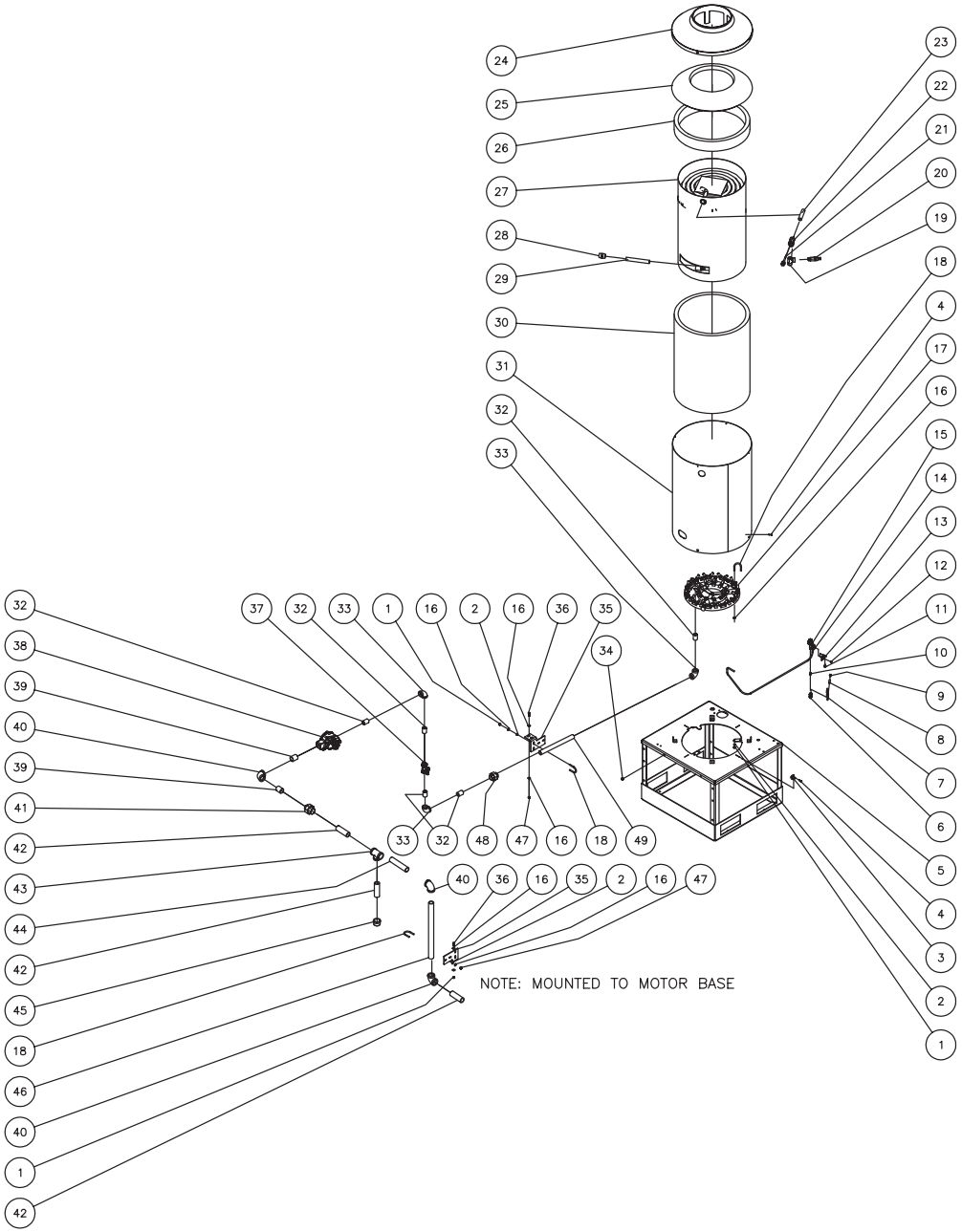
22-0171-120799-BAR

PRESSURE SWITCH (22-0171)			
REF. #	**DESCRIPTION**	**PART #**	**QTY.**
1	Pressure Switch	22-0171	1
2	Screw	N/A	4
3	Cover	N/A	1
4	O-ring (See 70-0306)	N/A Sep.	1
5	Micro Switch	N/A	1
6	Retainer Clip	N/A	1
7	Body	N/A	1
8	O-ring (See 70-0306)	N/A Sep.	2
9	Back-up Ring (See 70-0306)	N/A Sep.	1
10	Piston	N/A	1
11	Washer	N/A	1
12	Spring	49-0144	1
13	Washer	N/A	1
14	Plastic Housing	N/A	1
15	O-ring (See 70-0306)	N/A Sep.	1
16	Nut	N/A	1
17	Wire Assembly	N/A	1
	O-ring Repair Kit (Inc. 4, 8-9, 15)	70-0306	

22-0171 & 22-0243-120799-BAR

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BURNER ASSEMBLY (AFTER SERIAL #15015061)



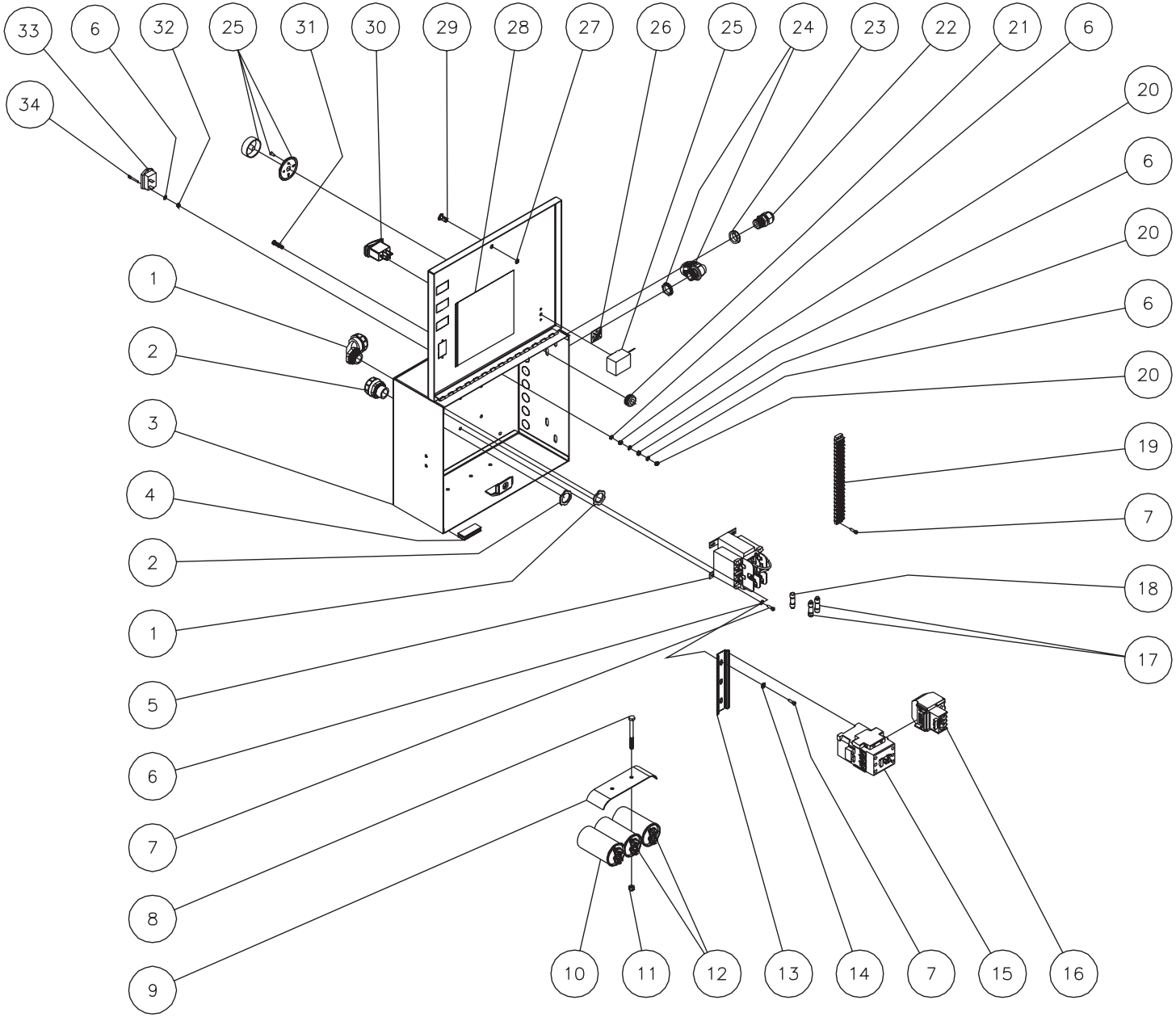
HEG BURNER ASSY-063004-AJG

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BURNER ASSEMBLY (AFTER SERIAL #15015061)							
REF. #	**DESCRIPTION**	**PART #**	**QTY.**	**REF. #**	**DESCRIPTION**	**PART #**	**QTY.**
1	Hex Nut	30-0002	8	26	Insulation Strip	850-0314	1
2	Lockwasher	29-0006	8	27	Heat Exchanger Coil Assembly	66-0016	1
3	Coil Retainer Clip	20-0651	4	28	Adapter	24-0243	1
4	Screw	27-3064	16	29	Pipe Nipple	24-0254	1
5	Coil Base Assembly	5-0174A18	1	30	Insulation Blanket	850-0313	1
6	Boot	44-0118	1	31	Outerwrap Assembly	20-0634A18	1
7	Igniter Wire	44-0117	1	32	Close Nipple	24-0095	5
8	Heat Shrink *(One Foot Required)	33-0219	1	33	Elbow	24-0102	3
9	Terminal	32-0221	1	34	Snap Bushing	9-0028	1
10	Spark Plug Terminal	44-0119	1	35	Plumbing Bracket	20-0667A18	2
11	Bolt	27-0014	2	36	Bolt	27-0015	4
12	Slot Pan	27-2096	2	37	Ball Valve	22-0336	1
13	Ignitor Bracket	13-0107A01	1	38	Natural Gas Regulating Valve	22-0144	1
14	Tubing *(Three Feet Required)	54-0027	1	39	Close Nipple	24-0012	2
15	Pilot Burner Ignitor	44-0115	1	40	Elbow	24-0096	3
16	Washer	28-0002	16	41	Union	24-0259	1
17	Natural Gas Asperating Ring Burner	4-0011	1	42	Pipe Nipple	24-0260	3
18	U-Bolt	31-2008	4	43	Tee	24-0261	1
19	Street Tee	24-0242	1	44	Pipe	24-0097	1
20	Safety Relief Valve	22-0309	1	45	Cap	24-0262	1
21	Adjustable Thermostat	32-0734	1	46	Pipe Nipple	24-0263	1
22	Tee	24-0055	1	47	Locknut	30-0155	4
23	Pipe Nipple	24-0244	1	48	Union	24-0101	1
24	Dome Assembly	20-0621A18	1	49	Pipe Nipple	24-0258	1
25	Insulation Donut	850-0315	1	*Must Order in One Foot Lengths			

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SINGLE PHASE ELECTRIC BOX ASSEMBLY



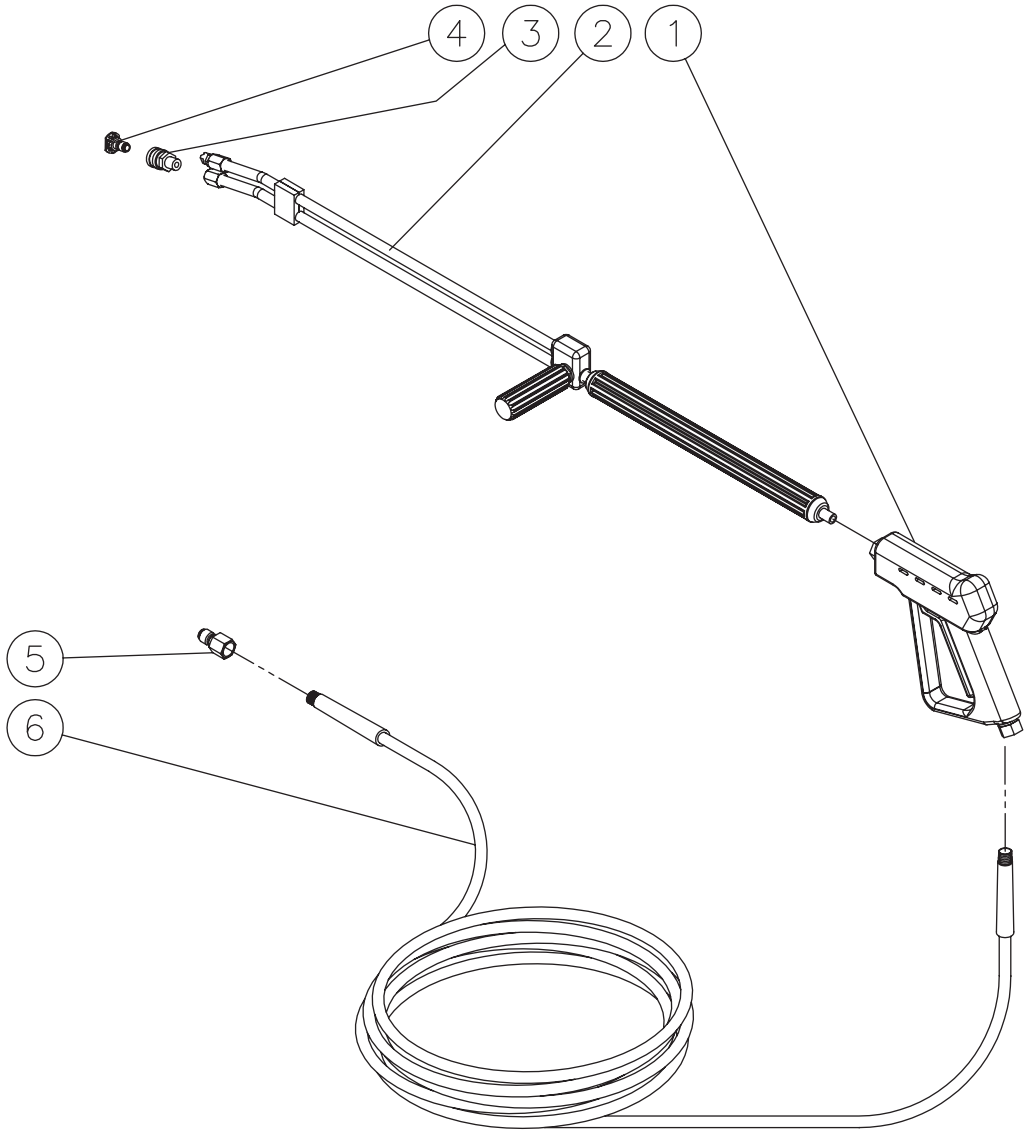
HEG STANDARD UNIT SINGLE PHASE
ELECTRIC BOX ASSY-071002-BAR

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SINGLE PHASE ELECTRIC BOX ASSEMBLY							
REF. #	**DESCRIPTION**	**PART #**	**QTY.**	**REF. #**	**DESCRIPTION**	**PART #**	**QTY.**
1	Conduit Elbow	32-0487	1	16	Overload (GH-2004-1230)	32-0484	1
2	Conduit Connector	32-0488	1	-	Overload (GH-3004-1230)	32-0485	1
3	Electric Box Assembly	32-0739A18	1	17	Primary Fuse	32-0741	2
4	Magnetic Catch w/Adhesive	33-0390	2	18	Primary Fuse	32-0743	1
5	Transformer	32-0735	1	19	Terminal Strip	32-0463	1
6	Lockwasher	28-1009	7	20	Hex Nut	30-6001	3
7	Screw	27-8835	9	21	Grommet	33-0001	1
8	Bolt (GH-2004-1230)	27-0024	1	22	Strain Relief	32-0437	1
-	Bolt (GH-3004-1230)	27-0024	2	23	Electrical Nut	32-0108	1
9	Capacitor Clamp (GH-2004-01230)	20-0467	1	24	Conduit Elbow	32-0254	1
-	Capacitor Clamp (GH-3004-1230)	20-0538A01	1	25	Adjustable Thermostat	32-0734	1
10	Start Capacitor w/Motor (GH-2004-1230)	32-0686	1	26	Ty-Rap Mounting Base w/Adhesive	32-0621	6
-	Start Capacitor w/Motor (GH-3004-1230)	32-0747	2	27	O-ring	25-0209	1
11	Locknut (GH-2004-1230)	30-0155	1	28	Envelope	41-0184	1
-	Locknut (GH-3004-1230)	30-0155	2	29	Fastener	33-0197	1
12	Run Capacitor w/Motor	32-0519	1	30	Rocker Switch	32-0731	2
13	Din Rail	32-0316	1	31	Bolt	27-8807	1
14	Washer	28-0001	3	32	Hex Nut (HX-0106 Option)	30-0052	2
15	Contactor (GH-2004-1230)	32-0597	1	33	Digital Hourmeter (HX-0106 Option)	32-0668	1
-	Contactor (GH-3004-1230)	32-0328	1	34	Screw (HX-0106 Option)	27-8881	2
*Must Order in One Foot Lengths							

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GUN/WAND/HOSE ASSEMBLY (AFTER SERIAL #15024154)



HEG GUN WAND HOSE ASSY-102605-KZ

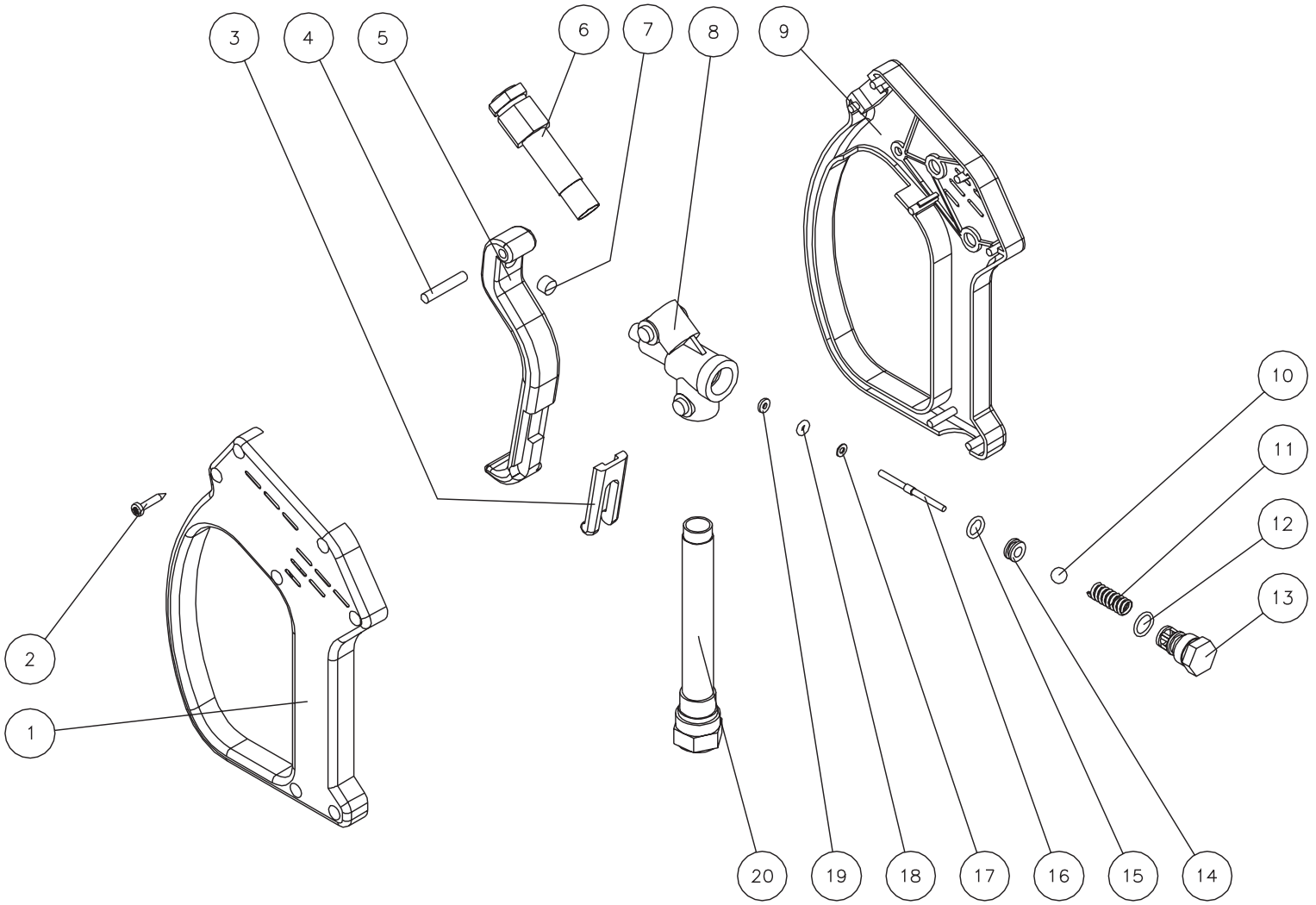
For parts Call 888-279-9274

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GUN/WAND/HOSE ASSEMBLY (AFTER SERIAL #15024154)			
REF. #	**DESCRIPTION**	**PART #**	**QTY.**
1	Gun Assembly	16-0392	1
2	Dual Lance	16-0417	1
3	Quick Connect Socket	17-0028	1
4	Nozzle- 0004.5 (HG-3004)	18-0033	1
-	Nozzle- 1504.5 (HG-3004)	18-0039	1
-	Nozzle- 2504.5 (HG-3004)	18-0060	1
-	Nozzle- 4004.5 (HG-3004)	18-0065	1
-	Nozzle- 0006 (HG-2004)	18-0013	1
-	Nozzle- 1506 (HG-2004)	18-0014	1
-	Nozzle- 2506 (HG-2004)	18-0043	1
-	Nozzle- 4006 (HG-2004)	18-0044	1
5	Quick Connect Plug	17-0006	1
6	High Pressure Hose Assembly	15-0166	1

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GUN ASSEMBLY (16-0392)



16-0392-030601-EDW

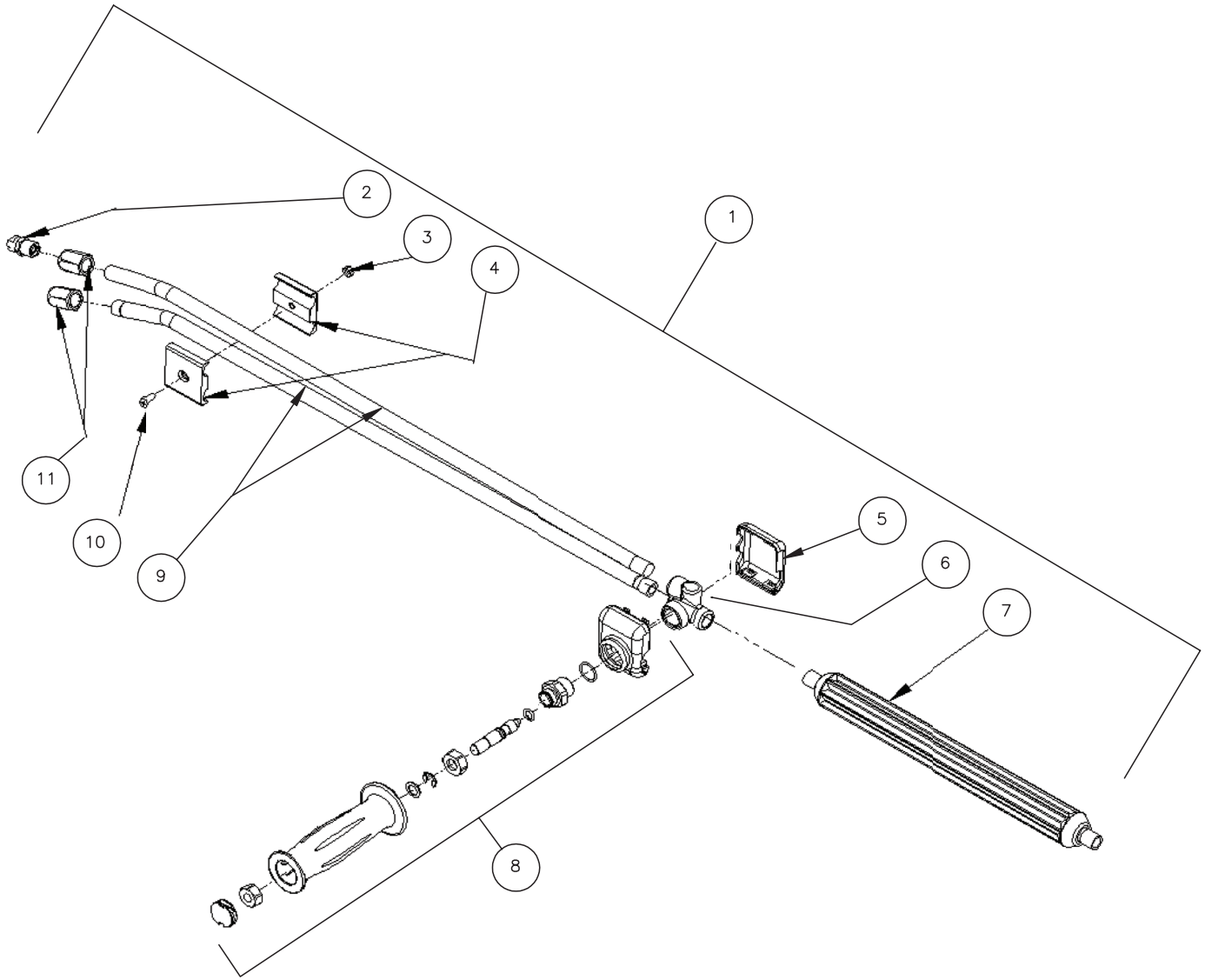
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16-0392-030601-EDW

GUN ASSEMBLY (16-0392)							
REF. #	**DESCRIPTION**	**PART #**	**QTY.**	**REF. #**	**DESCRIPTION**	**PART #**	**QTY.**
1	Plastic Housing (Left)	N/A	1	12	O-ring (See 70-0332)	N/A Sep.	1
2	Screw	N/A	7	13	Spring Housing Plug	N/A	1
3	Safety Latch	N/A	1	14	Seat (See 70-0332)	N/A Sep.	1
4	Pin	N/A	1	15	O-ring (See 70-0332)	N/A Sep.	1
5	Trigger	16-0393	1	16	Piston (See 70-0332)	N/A Sep.	1
6	Tube	16-0395	1	17	Washer	N/A	1
7	Striker	16-0394	1	18	O-ring (See 70-0332)	N/A Sep.	1
8	Body	N/A	1	19	Back-up Ring (See 70-0332)	N/A Sep.	1
9	Plastic Housing (Right)	N/A	1	20	Tube	16-0396	1
10	Ball (See 70-0332)	N/A Sep.	1		Repair Kit (Inc. 10, 12, 14-16, 18, 19)	70-0332	1
11	Spring	N/A	1				

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DUAL LANCE ASSEMBLY (16-0417)



16-0416_16-0417-102405-RZ

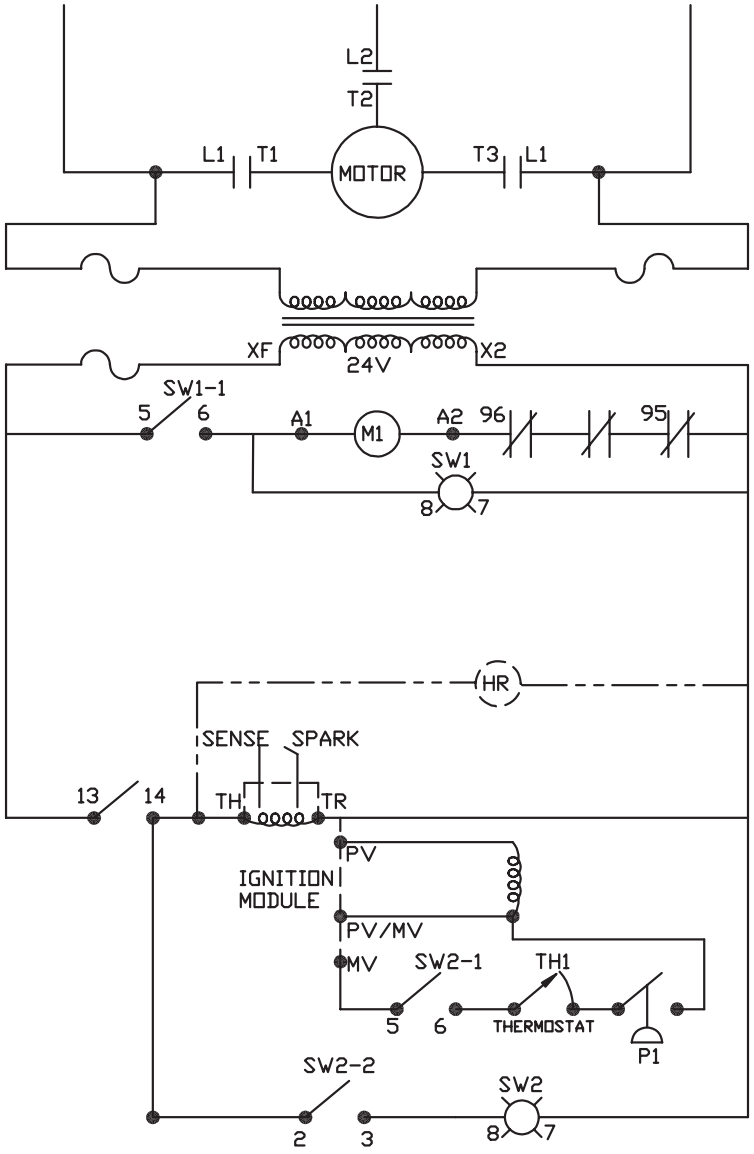
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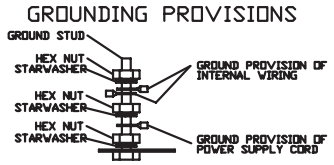
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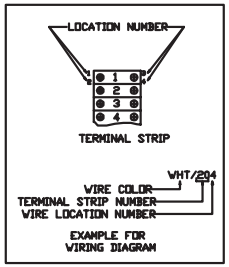
DUAL LANCE ASSEMBLY (16-0417)			
REF. #	**DESCRIPTION**	**PART #**	**QTY.**
1	Dual Lance Assembly - 48" (Inc. 2-11)	16-0417	1
2	Detergent Nozzle	18-0110	1
3	Nut	30-6001	1
4	Clamp	16-0420	2
5	Lower Valve Cover (See 16-0417)	N/A Sep.	1
6	Housing (See 16-0417)	N/A Sep.	1
7	Lance	16-0419	1
8	Handle Repair Kit	70-0419	1
9	Lance (See 16-0417)	N/A Sep.	2
10	Screw	27-8196	1
11	Nozzle Adapter	24-0280	2

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WIRE SCHEMATIC GH-2004_3004-1230



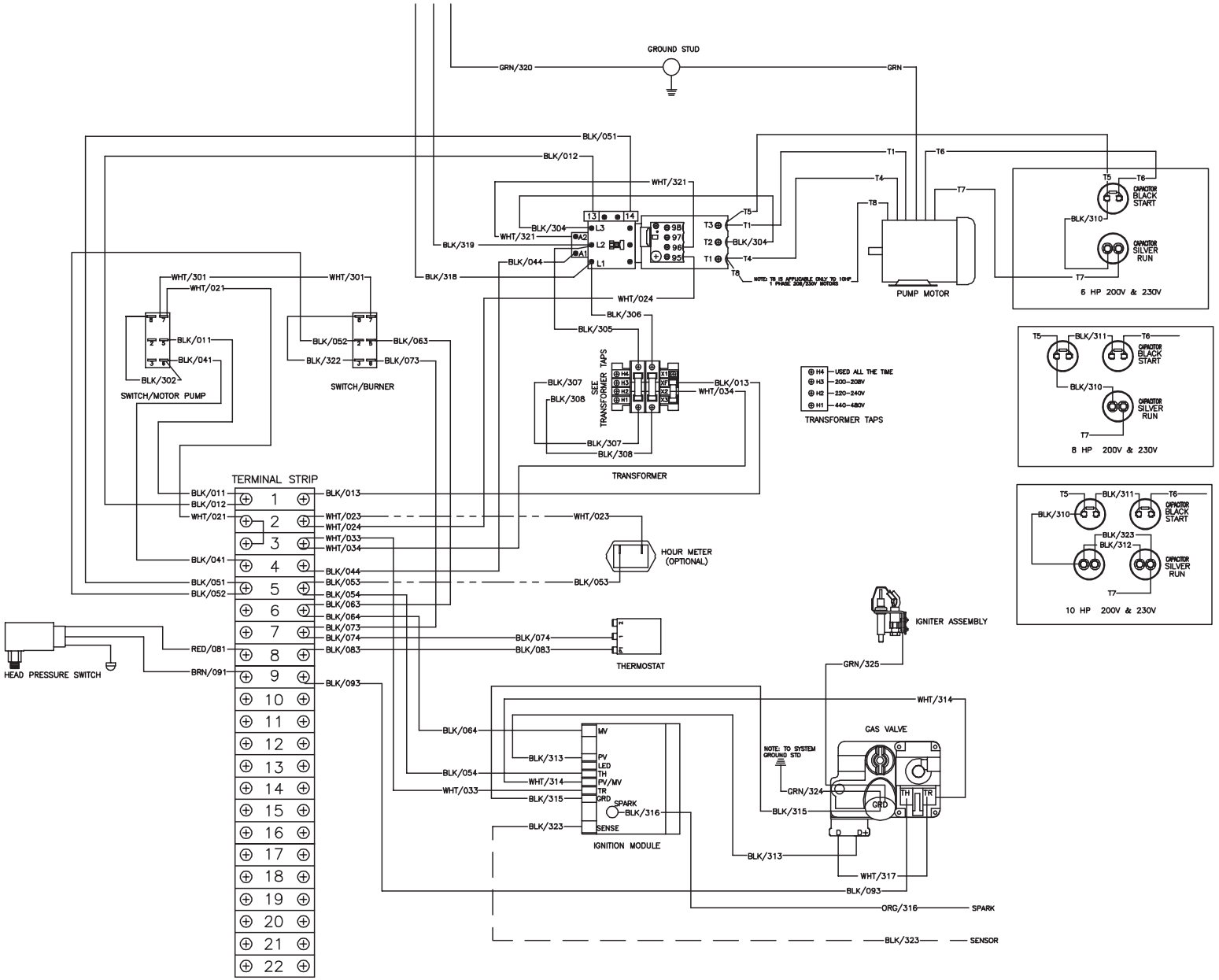




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WIRE SCHEMATIC-060106-BVO

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WIRE DIAGRAM GH-2004_3004-1230



HEG-1805/2004/3004/3005-0E2G
WIRE DIAGRAM-060106-BVO

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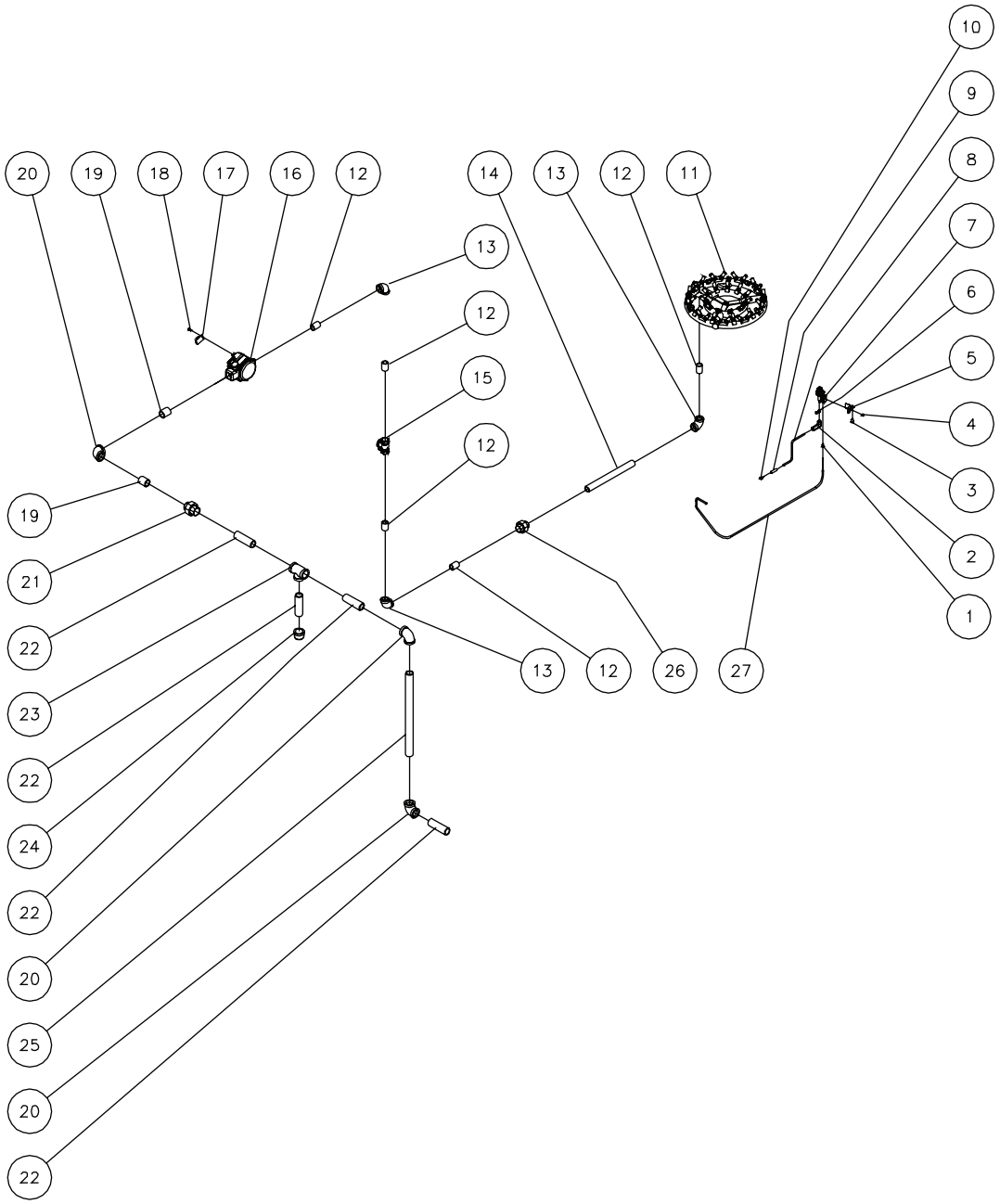
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L.P. BURNER ASSEMBLY (HX-0105)



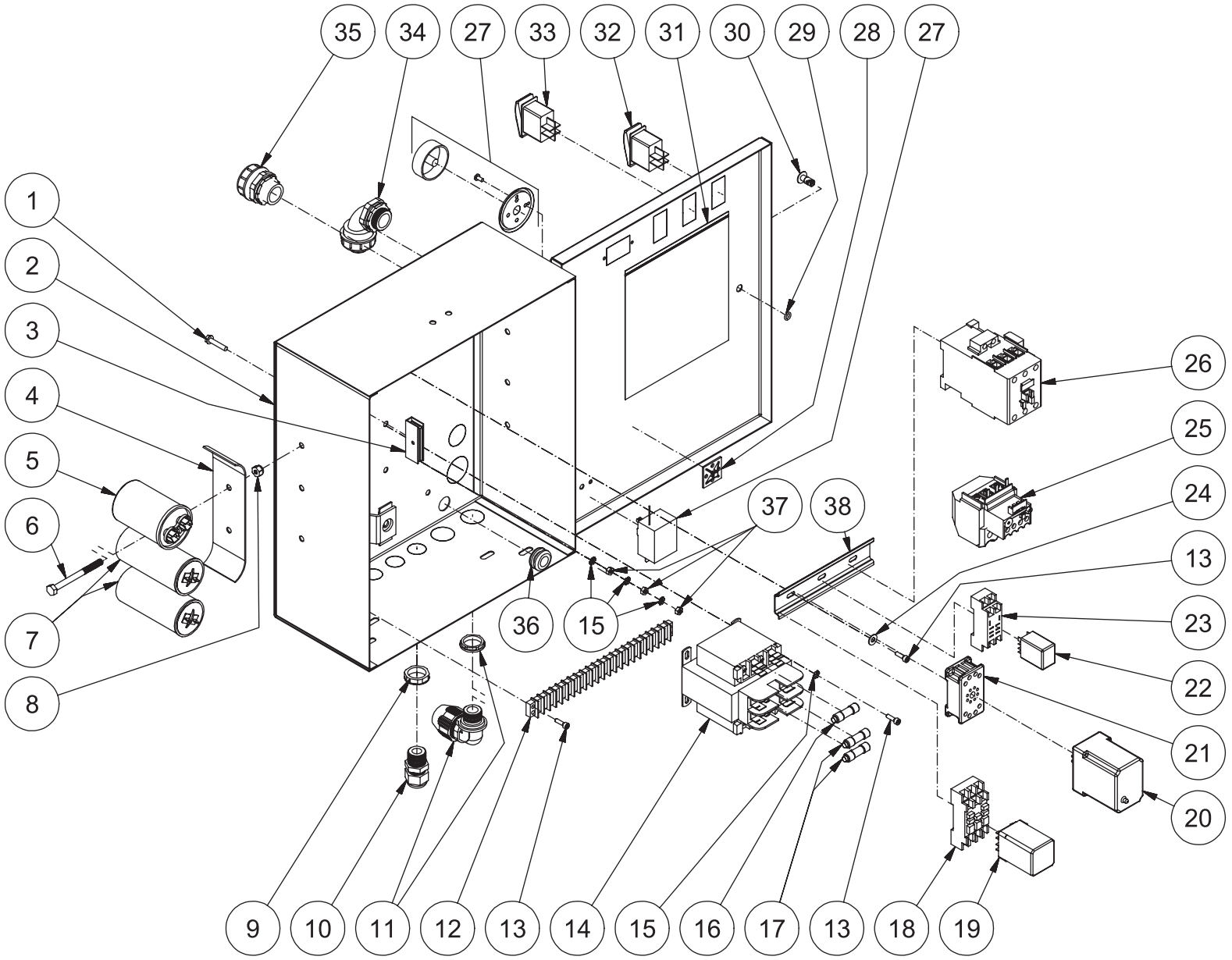
HEG LP BURNER ASSY-012803-KZ

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L.P. BURNER ASSEMBLY (HX-0105)							
REF. #	**DESCRIPTION**	**PART #**	**QTY.**	**REF. #**	**DESCRIPTION**	**PART #**	**QTY.**
1	L.P. Pilot Orfice	44-0116	1	15	Ball Valve	22-0336	1
2	Boot	44-0118	1	16	Natural Gas Regulating Valve	850-0150	1
3	Bolt	27-0014	2	17	Regulator Kit	70-0077	1
4	Screw	27-2096	2	18	Screw (See 70-0077)	N/A Sep.	2
5	Ignitor Bracket	13-0107A01	1	19	Close Nipple	24-0012	2
6	Spark Plug Terminal	44-0119	1	20	Elbow	24-0096	3
7	Pilot Burner Ignitor	44-0115	1	21	Union	24-0259	1
8	Ignitor Wire *(Four Feet Required)	44-0117	1	22	Pipe Nipple	24-0260	4
9	Heat Shrink *(One Foot Required)	33-0219	1	23	Tee	24-0261	1
10	Terminal	32-0221	1	24	Cap	24-0262	1
11	Natural Gas Asperating Ring Burner	4-0012	1	25	Pipe Nipple	24-0263	1
12	Close Nipple	24-0095	5	26	Union	24-0101	1
13	Elbow	24-0102	3	27	Tubing *(Three Feet Required)	54-0027	1
14	Pipe Nipple	24-0258	1	*Must Order in One Foot Lengths			

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SINGLE PHASE ELECTRIC BOX ASSEMBLY W/AUTO START OR TIME DELAY (HX-0107 AND HX-0111)



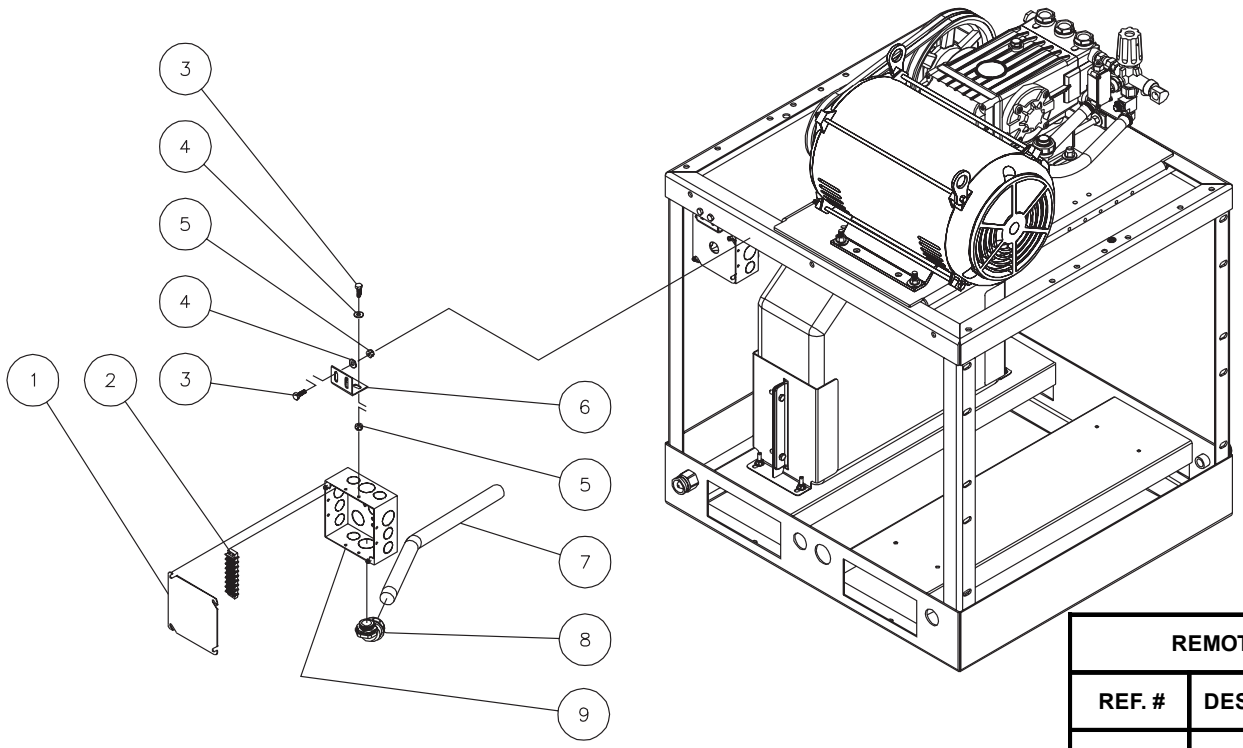
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AUTO START OR TIME DELAY-100307-CH

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SINGLE PHASE ELECTRIC BOX ASSEMBLY W/ AUTO START OR TIME DELAY (HX-0107 AND HX-0111)							
REF. #	**DESCRIPTION**	**PART #**	**QTY.**	**REF. #**	**DESCRIPTION**	**PART #**	**QTY.**
1	Bolt	27-8807	1	19	Latching Relay (HX-0107)	32-0736	3
2	Electric Box Assembly	32-0739A18	1	20	Off Delay Timer	32-0314	1
3	Magnetic Catch w/Adhesive	33-0390	2	21	Timer Base Socket	32-0315	1
4	Capacitor Clamp (GH-2004)	20-0467	1	22	Relay	32-0320	1
-	Capacitor Clamp (GH-3004)	20-0538A01	1	23	Relay Socket	32-0321	1
5	Start Capacitor w/Motor (GH-2004)	32-0686	1	24	Washer	28-0001	3
-	Start Capacitor w/Motor (GH-3004)	32-0747	2	25	Overload (GH-3004)	32-0485	1
6	Bolt (GH-2004)	27-0024	2	-	Overload (GH-2004)	32-0484	1
-	Bolt (GH-3004)	27-0024	1	26	Contactor (GH-2004)	32-0597	1
7	Run Capacitor w/Motor	32-0519	1	-	Contactor (GH-3004)	32-0328	1
8	Locknut (GH-2004)	30-0155	1	27	Adjustable Thermostat	32-0734	1
-	Locknut (GH-3004)	30-0155	2	28	Ty-rap Mounting Base w/Adhesive	32-0621	6
9	Locknut	32-0108	2	29	O-ring	25-0209	1
10	Strain Relief	32-0437	2	30	Fastener	33-0197	1
11	Conduit Elbow	32-0254	1	31	Envelope	41-0184	1
12	Terminal Strip	32-0463	1	32	Rocker Switch (HX-0107)	32-0732	1
13	Screw	27-8835	7	-	Rocker Switch (HX-0111)	32-0731	2
14	Transformer	32-0735	1	-	Rocker Switch (HX-0107)	32-0731	1
15	Lockwasher	28-1009	7	34	Conduit Elbow	32-0487	1
16	Primary Fuse	32-0743	1	35	Conduit Connector	32-0488	1
17	Primary Fuse	32-0742	2	36	Grommet	33-0001	1
-	Primary Fuse	32-0741	2	37	Hex Nut	30-6001	3
18	Relay Base (HX-0107)	32-0737	1	38	Din Rail *(Ten Feet Required)	32-0316	1
*Must Order in One Foot Lengths							

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REMOTE JUNCTION BOX (HX-0108, HX-0109 AND HX-0124)



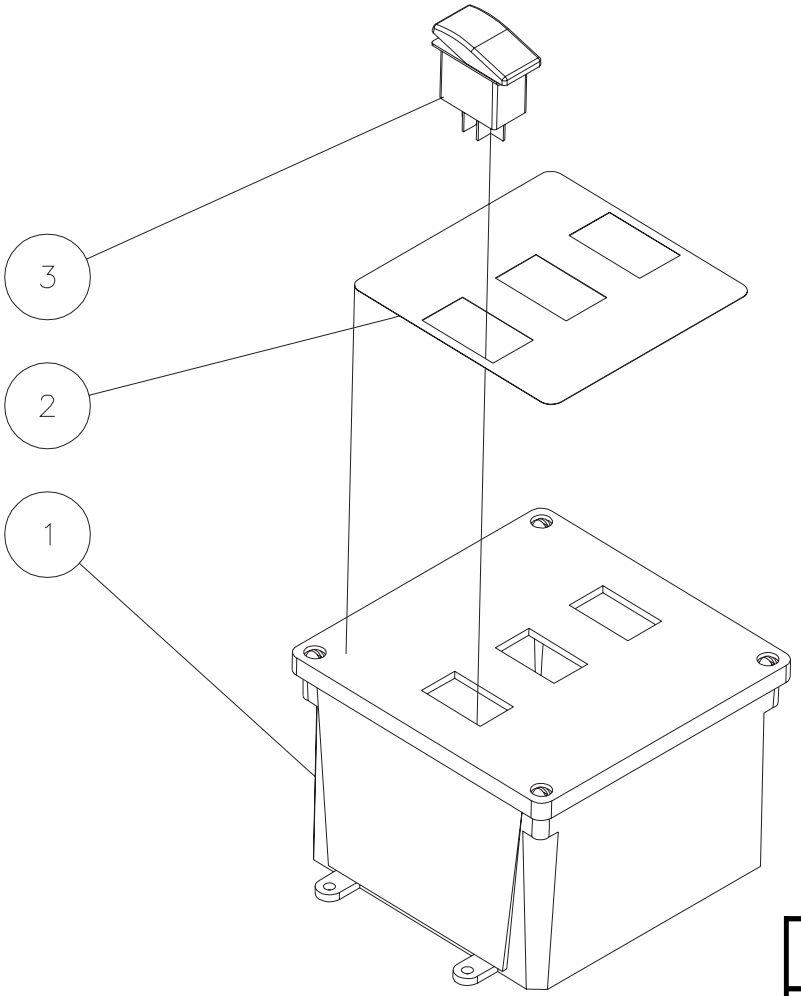
HEG REMOTE JUNCTION BOX-032202-BAR

REMOTE JUNCTION BOX (HX-0108, HX-0109 AND HX-0124)			
REF. #	**DESCRIPTION**	**PART #**	**QTY.**
1	Cover	32-0750	1
2	Terminal Strip	32-0436	2
3	Bolt	27-0015	4
4	Washer	28-0002	4
5	Locknut	30-0155	4
6	Electric Box Bracket	20-0526A18	1
7	Conduit *(One Foot Required)	32-0486	1
8	Conduit Elbow	32-0487	1
9	Electric Junction Box	32-0749	1
*Must Order in One Foot Lengths			

HEG REMOTE JUNCTION BOX-032202-BAR

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REMOTE BOX ASSEMBLY (HX-0108, HX-0109, HX-0110 AND HX-0124)



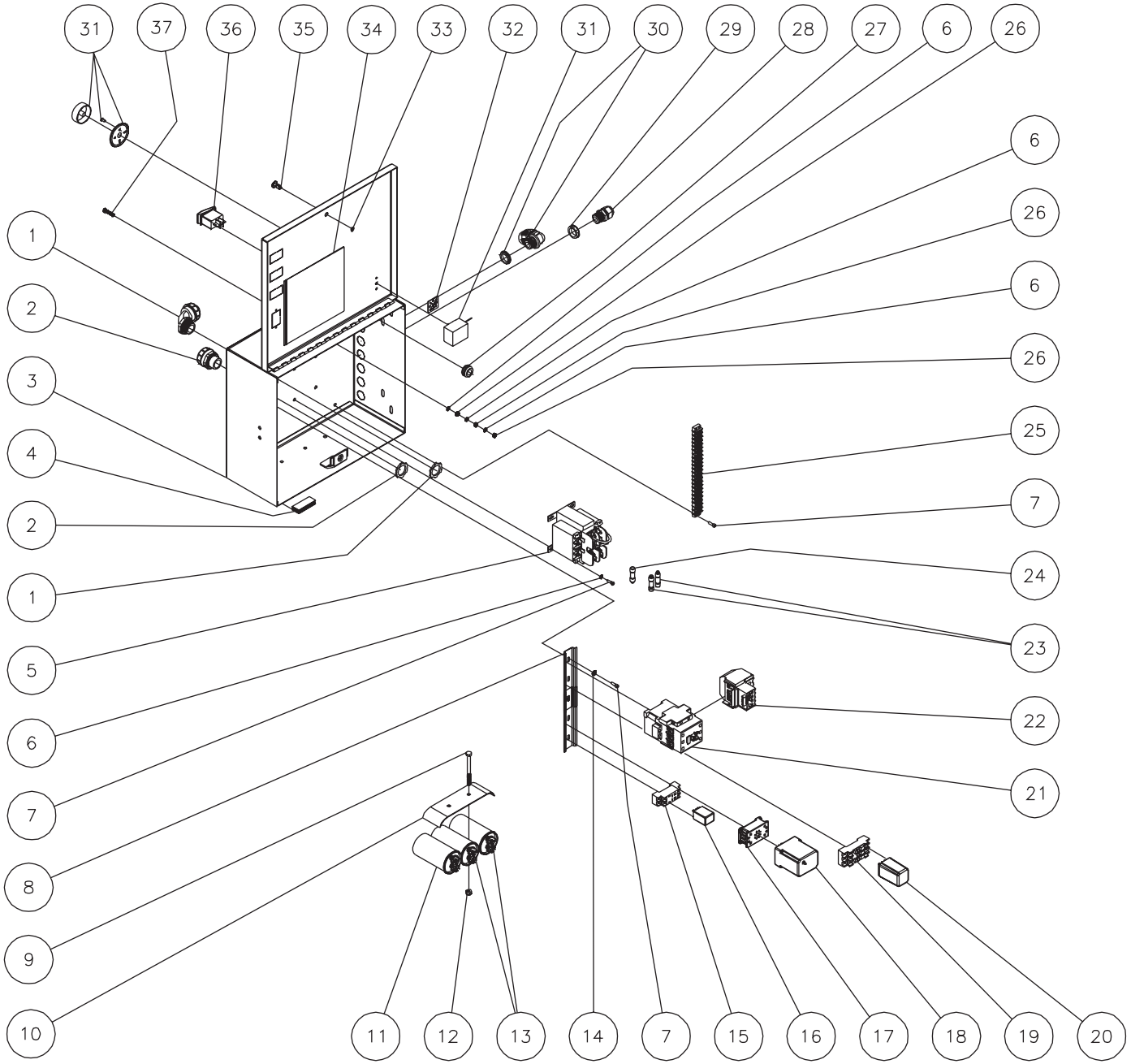
HEG REMOTE BOX ASSY-032202-BAR

REMOTE BOX ASSEMBLY (HX-0108, HX-0109, HX-0110 AND HX-0124)			
REF. #	**DESCRIPTION**	**PART #**	**QTY.**
1	Remote Box	32-0702	1
2	Decal- Remote Box	34-1296	1
3	Rocker Switch	32-0732	3

HEG REMOTE BOX ASSY-032202-BAR

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SINGLE PHASE ELECTRIC BOX ASSEMBLY W/ TIME DELAY OR AUTO START/STOP AND REMOTES (HX-0108, HX-0109 AND HX-0124)



HEG SINGLE PHSE ELE. BOX ASSY W/
TIME DELAY OR AUTO START STOP
AND REMOTES-071002-BAR

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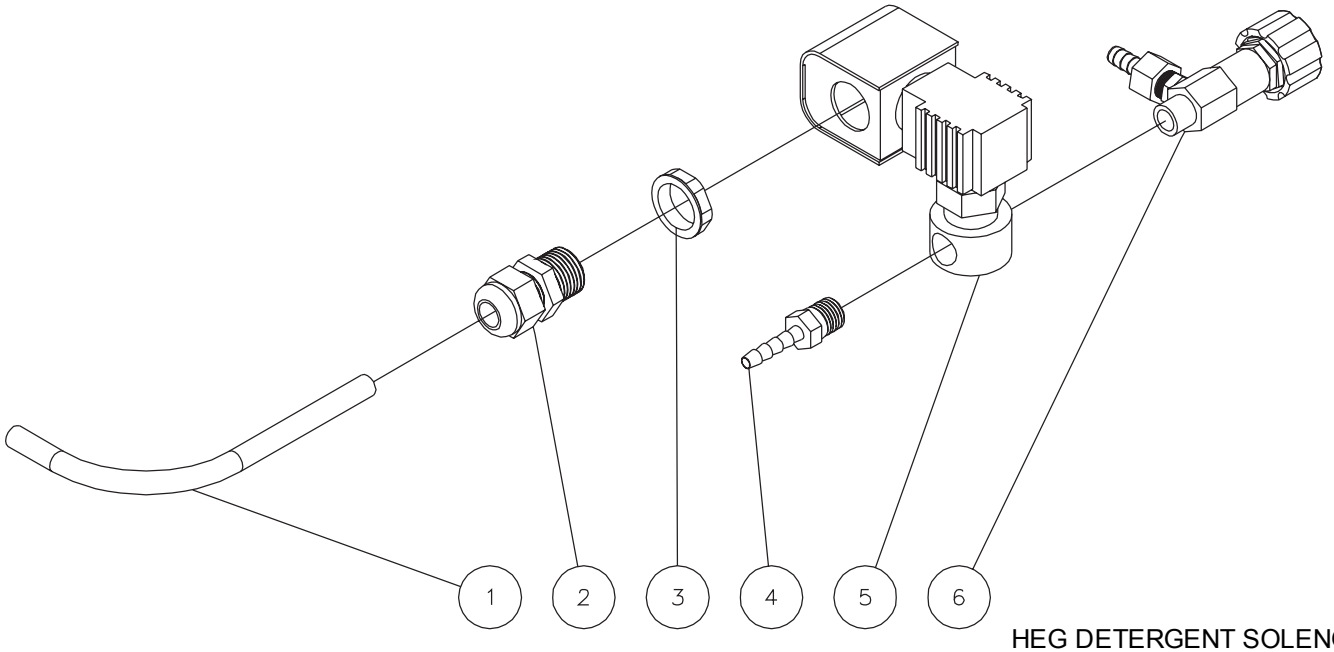
SINGLE PHASE ELECTRIC BOX ASSEMBLY W/ TIME DELAY OR AUTO START/STOP AND REMOTES (HX-0108, HX-0109 AND HX-0124)

REF. #	DESCRIPTION	PART #	QTY.	REF. #	DESCRIPTION	PART #	QTY.
1	Conduit Elbow	32-0487	1	19	Relay Base	32-0737	3
2	Conduit Connector	32-0488	2	20	Latching Relay	32-0736	3
3	Electric Box Assembly	32-0739A18	1	21	Contactor (GH-2004-1230)	32-0597	1
4	Magnetic Catch w/Adhesive	33-0390	2	-	Contactor (GH-3004-1230)	32-0328	1
5	Transformer	32-0735	1	22	Overload (GH-2004-1230)	32-0484	1
6	Lockwasher	28-1009	7	-	Overload (GH-3004-1230)	32-0485	1
7	Screw	27-8835	9	23	Primary Fuse	32-0741	2
8	Din Rail *(Ten Feet Required)	32-0316	1	24	Primary Fuse	32-0743	1
9	Bolt (GH-2004-1230)	27-0024	1	25	Terminal Strip	32-0463	1
-	Bolt (GH-3004-1230)	27-0024	2	26	Hex Nut	30-6001	3
10	Capacitor Clamp (GH-2004-1230)	20-0467	1	27	Grommet	33-0001	1
-	Capacitor Clamp (GH-3004-1230)	20-0538A01	1	28	Strain Relief	32-0437	2
11	Start Capacitor w/Motor (GH-2004-1230)	32-0686	1	29	Locknut	32-0108	2
-	Start Capacitor w/Motor (GH-3004-1230)	32-0747	2	30	Conduit Elbow	32-0254	1
12	Locknut (GH-2004-1230)	30-0155	1	31	Adjustable Thermostat	32-0734	1
-	Locknut (GH-3004-1230)	30-0155	2	32	Ty-rap Mounting Base w/Adhesive	32-0621	6
13	Run Capacitor w/Motor	32-0519	1	33	O-ring	25-0209	1
14	Washer	28-0001	3	34	Envelope	41-0184	1
15	Relay Socket (HX-0109, HX-0124)	32-0321	1	35	Fastener	33-0197	1
16	Relay (HX-0109, HX-0124)	32-0320	1	36	Rocker Switch	32-0732	3
17	Timer Base Socket (HX-0109, HX-0124)	32-0315	1	37	Bolt	27-8807	1
18	Oil Delay Timer (HX-0109, HX-0124)	32-0314	1				

*Must Order in One Foot Lengths

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DETERGENT SOLENOID FOR TIME DELAY AND REMOTES (HX-0108, HX-0109 AND HX-0124)



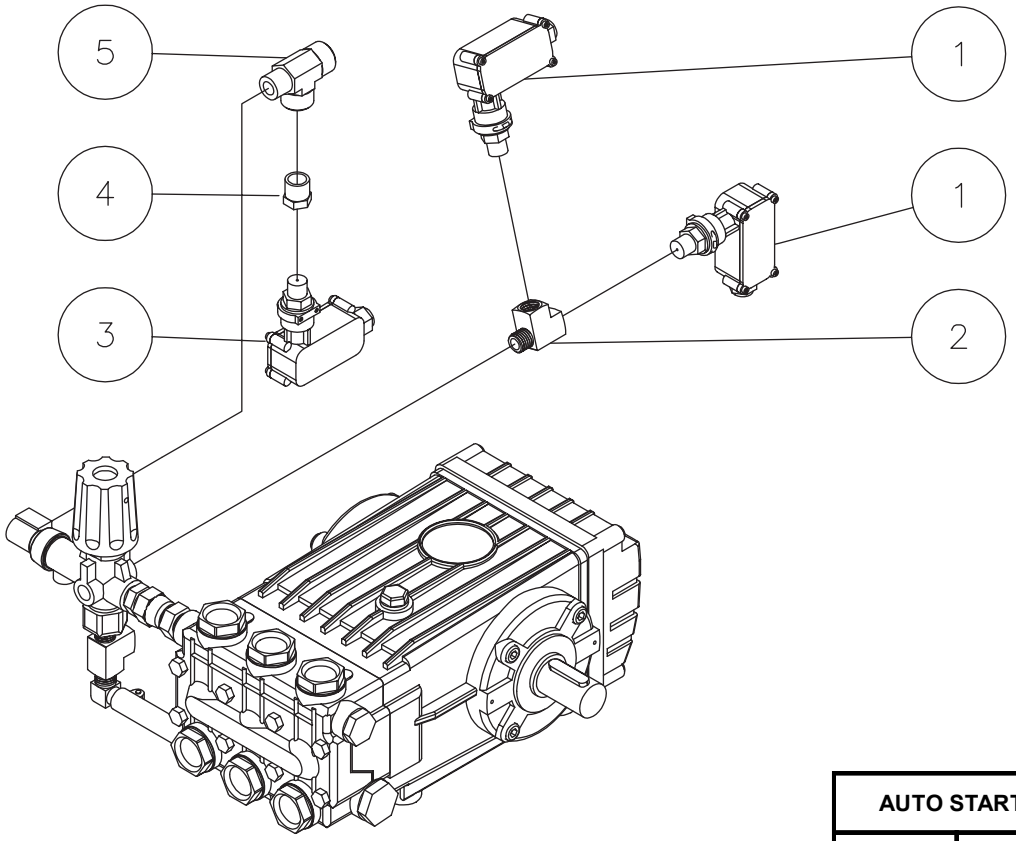
HEG DETERGENT SOLENOID FOR TIME DELAY/REMOTES-032202-BAR

DETERGENT SOLENOID FOR TIME DELAY AND REMOTES			
REF. #	**DESCRIPTION**	**PART #**	**QTY.**
1	Cord *(Two Feet Required)	32-0075	1
2	Strain Relief	32-0437	1
3	Locknut	32-0108	1
4	Hose Barb	23-0051	1
5	Detergent Solenoid	32-0733	1
6	Detergent Valve	22-0226	1
*Must Order in One Foot Lengths			

HEG DETERGENT SOLENOID FOR TIME DELAY AND REMOTES-032202-BAR

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AUTO START/STOP PLUMBING (HX-0111 AND HX-0124) (AFTER SERIAL #15021777)



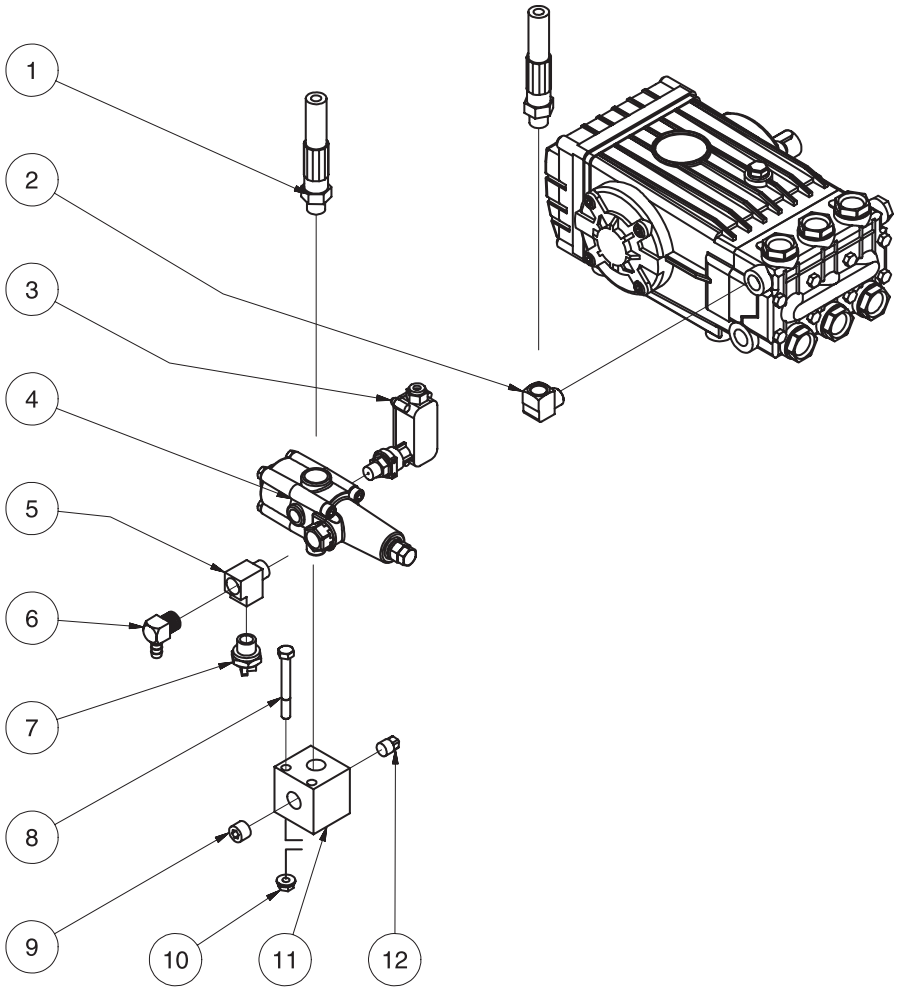
HEG AUTO START STOP PLUMBING-061005-RZ

AUTO START/STOP PLUMBING (HX-0111 AND HX-0124) (AFTER SERIAL #15021777)			
REF. #	**DESCRIPTION**	**PART #**	**QTY.**
1	Pressure Switch	22-0171	2
2	Tee	23-0127	2
3	Pressure Switch	22-0243	1
4	Reducer	23-0017	1
5	Street Tee	23-0058	1

HEG AUTO START/STOP PLUMBING-061005-RZ

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K7 OPTION (HX-0104 AND HX-0112) (AFTER SERIAL #15021777)



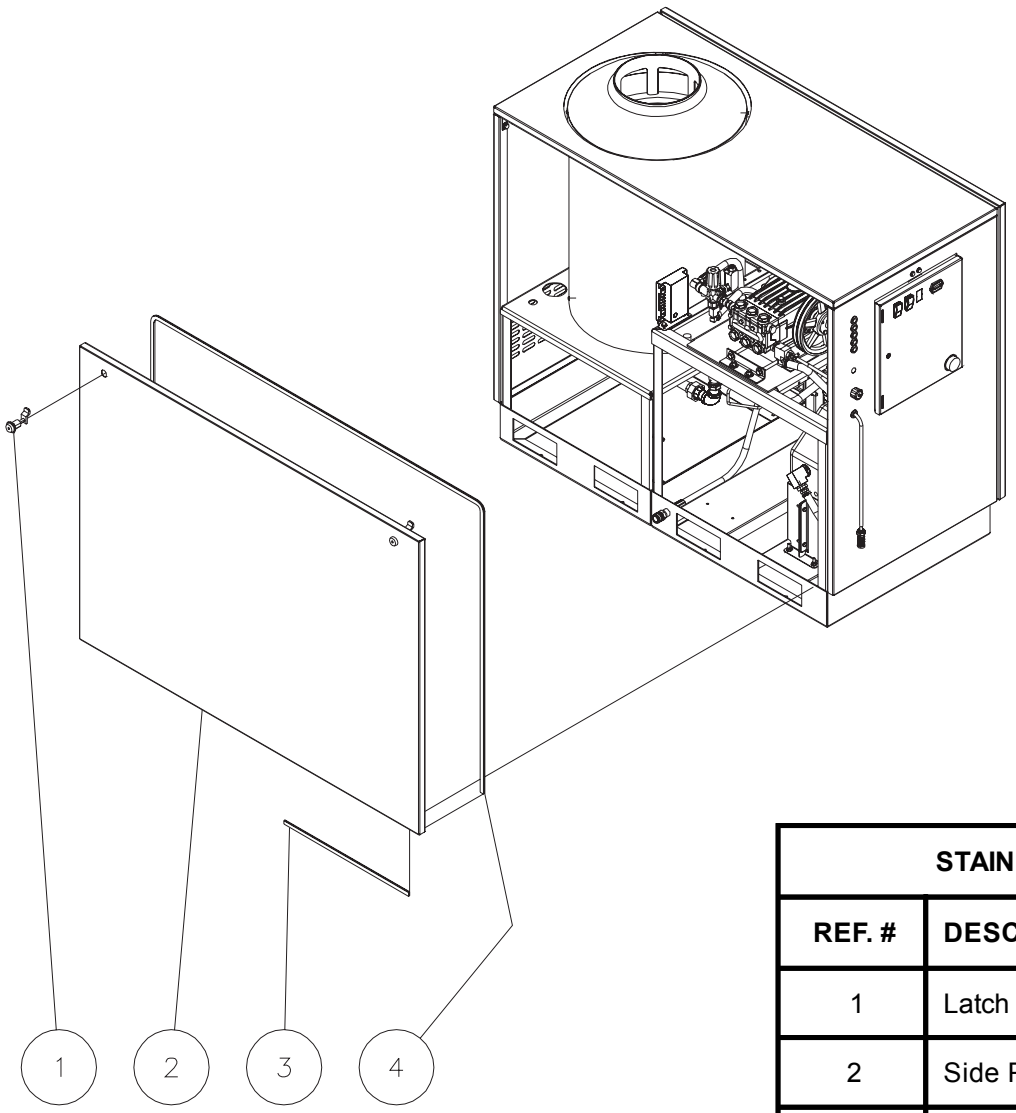
HG K7 OPTION-053106-RZ

K7 OPTION (HX-0104 AND HX-0112) (AFTER SERIAL #15021777)			
REF. #	**DESCRIPTION**	**PART #**	**QTY.**
1	High Pressure Hose *(One Foot Required)	15-0194	1
2	Elbow	23-0034	1
3	Pressure Switch	22-0119	1
4	Unloader (GH-2004)	8-0013	1
-	Unloader (GH-3004)	8-0012	1
5	Tee	23-0382	1
6	Elbow	23-0074	1
7	Heat Dump Valve	22-0114	1
8	Bolt	27-8040	2
9	Plug	23-0244	1
10	Hex Nut	30-3023	2
11	Manifold Block	51-0024	1
12	Plug	23-0244	1
*Must Order in One Foot Lengths			

HEG K7 OPTION-053106-RZ

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STAINLESS STEEL BOX PANEL OPTION (HX-0118)



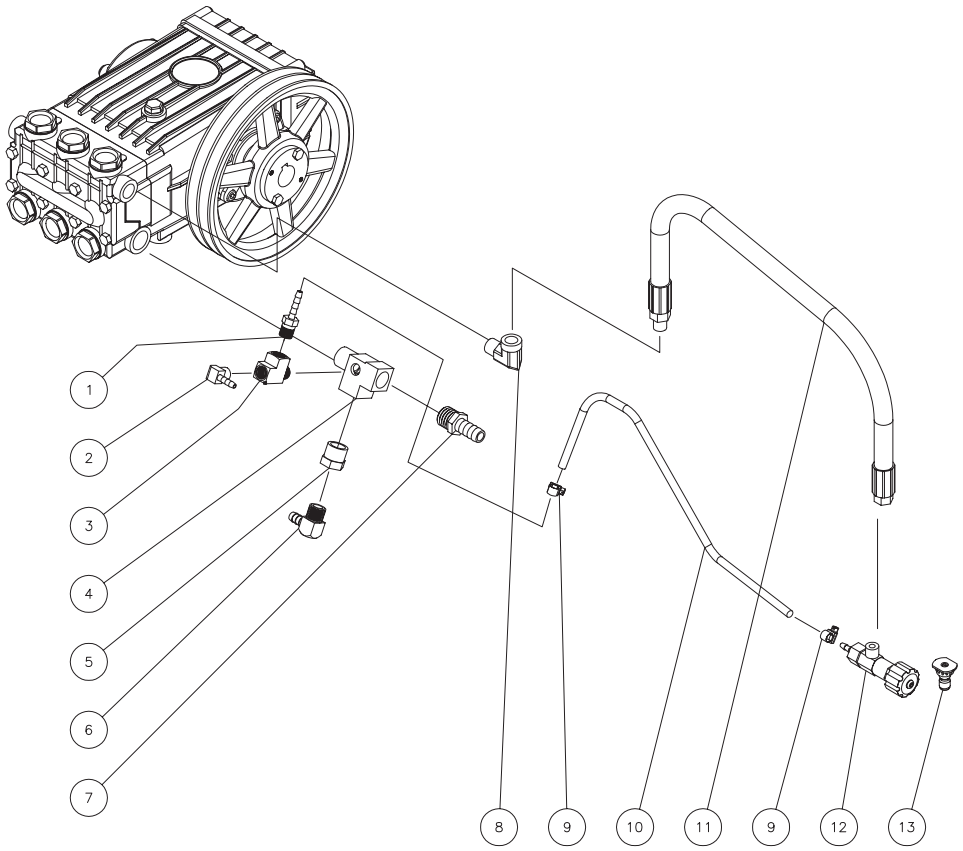
HEG SS BOX PANEL OPTION-031102-BAR

HEG SS BOX PANEL OPTION-031102-BAR

STAINLESS STEEL BOX PANEL OPTION (HX-0118)			
REF. #	**DESCRIPTION**	**PART #**	**QTY.**
1	Latch	33-0128	4
2	Side Panel	21-0165	2
3	Trimlock	33-0020	4
4	Trimlock w/Seal	33-0129	2

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STEAM OPTION (HX-0119, HX-0120 AND HX-0121) (AFTER SERIAL #15021777)



HG STEAM OPTION-061305-RZ

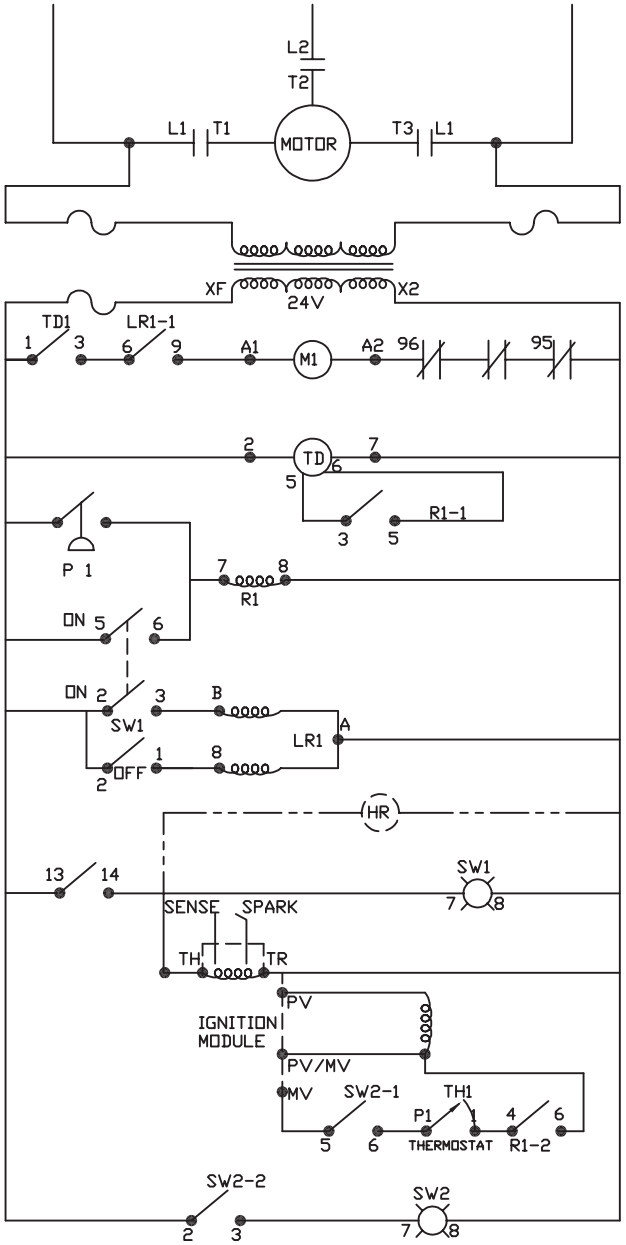
STEAM OPTION (HX-0119, HX-0120 AND HX-0121) (AFTER SERIAL #15021777)			
REF. #	**DESCRIPTION**	**PART #**	**QTY.**
1	Hose Barb	23-0051	1
2	Elbow	23-0054	1
3	Tee	23-0127	1
4	Street Tee	23-0388	1
5	Bushing	23-0016	1
6	Elbow	23-0074	1
7	Hose Barb	23-0045	1
8	Elbow	24-0004	1
9	Clamp Worm	42-0004	2
10	Hose *(Nine Feet Required)	15-0008	1
11	High Pressure Hose Assembly	15-0072	1
12	Steam Valve (GH-2004)	22-0329	1
-	Steam Valve (GH-3004)	22-0349	1
13	Steam Nozzle (HX-0120) (GH-2004)	18-0009	1
	Steam Nozzle (HX-0121) (GH-3004)	18-0303	1
*Must Order in One Foot Lengths			

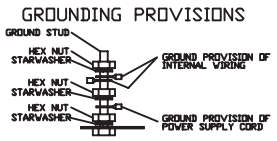
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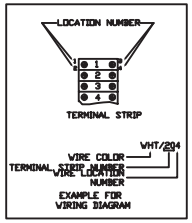
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WIRE SCHEMATIC GH-2004_3004-1230 WITH TIME DELAY (HX-0107)



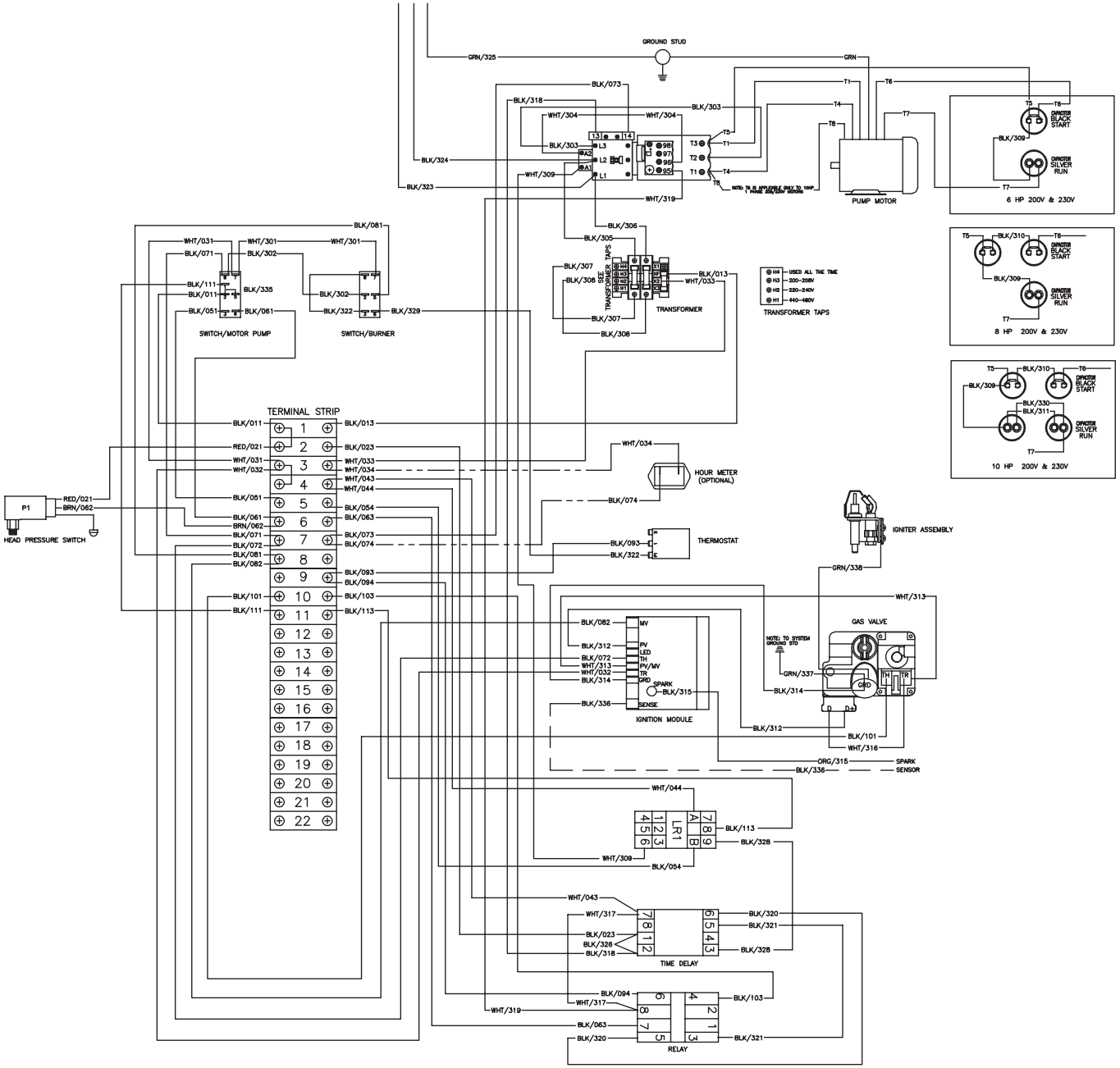




HEG-1805/2004/3004/3005-0E2G/8G W/ TIME
DELAY WIRE SCHEMATIC-060106-BVO

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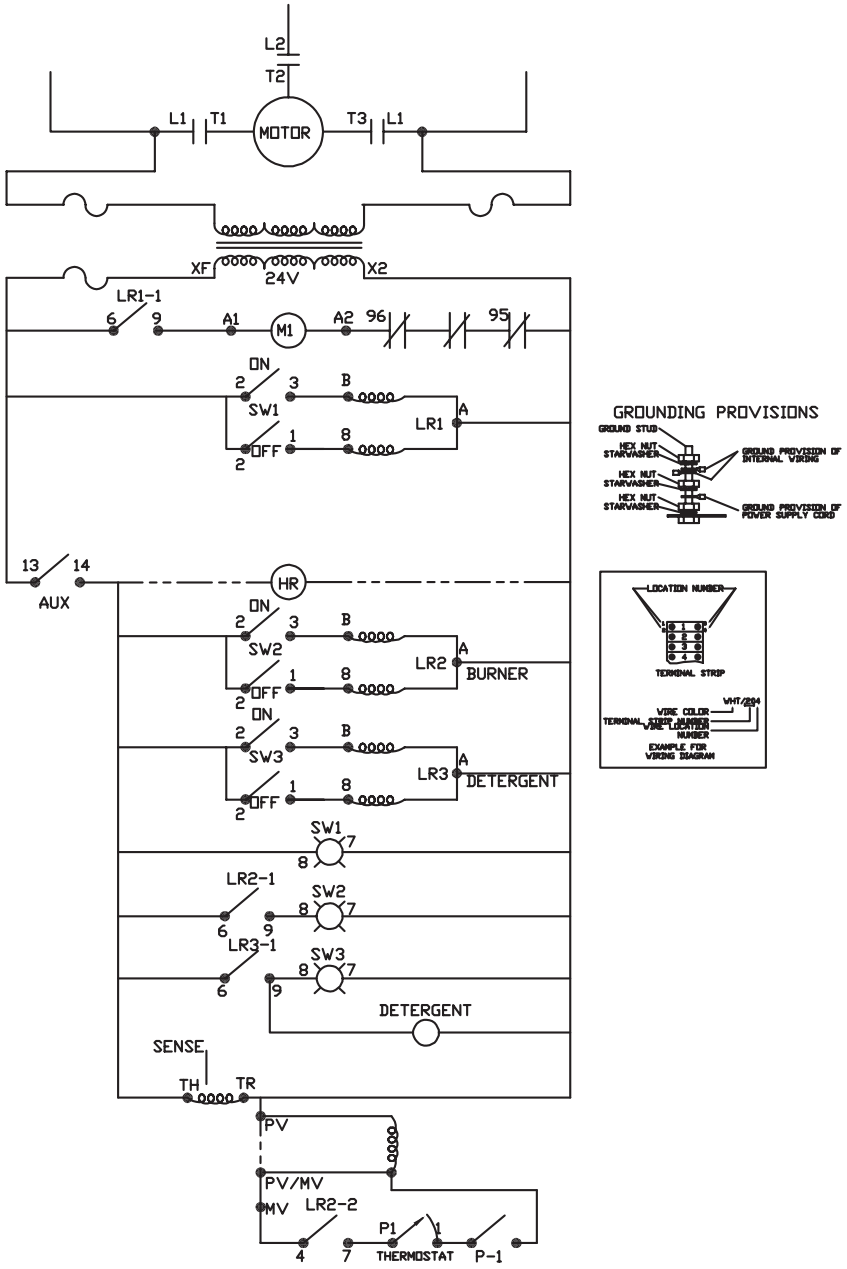
WIRE DIAGRAM GH-2004_3004-1230 WITH TIME DELAY (HX-0107)



HEG-1805/2004/3004/3005-0E2G/8G W/
TIME DELAY WIRE DIAGRAM-060106-BVO

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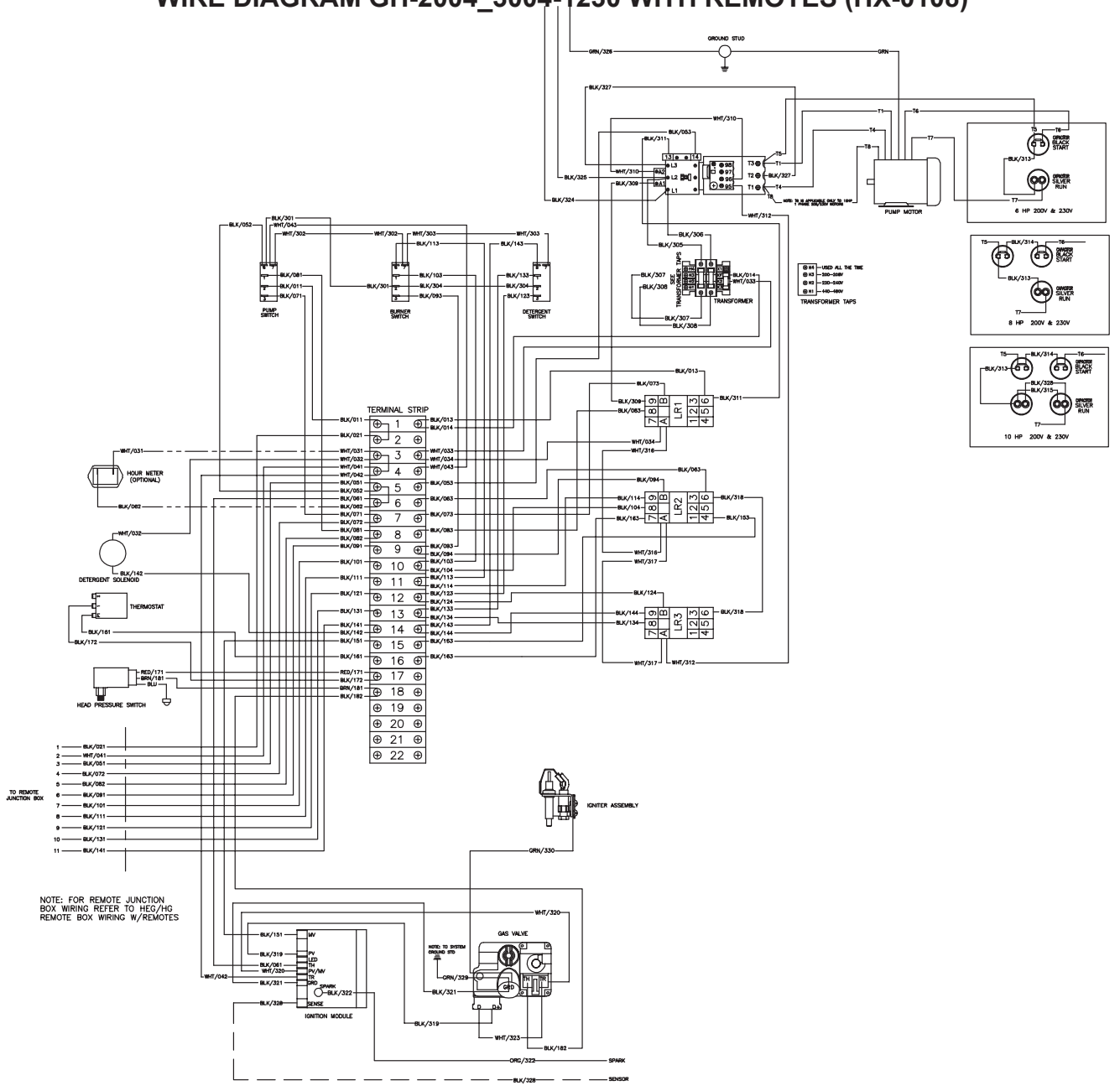
WIRE SCHEMATIC GH-2004_3004-1230 WITH REMOTES (HX-0108)



HEG-1805/2004/3004/3005-0E2G/8G W/
REMOTES WIRE SCHEMATIC-060106-BVO

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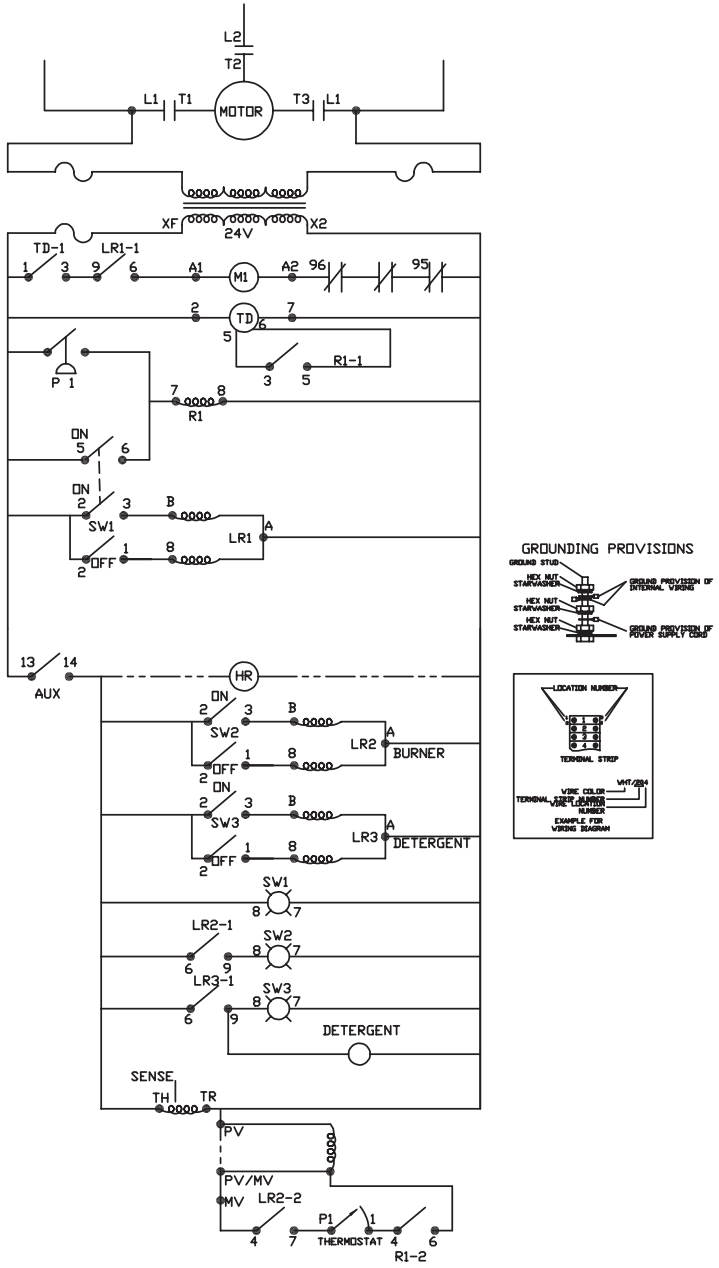
WIRE DIAGRAM GH-2004_3004-1230 WITH REMOTES (HX-0108)



HEG-1805/2004/3004/3005-0E2G/8G W/ RE-MOTES WIRE DIAGRAM-060106-BVO

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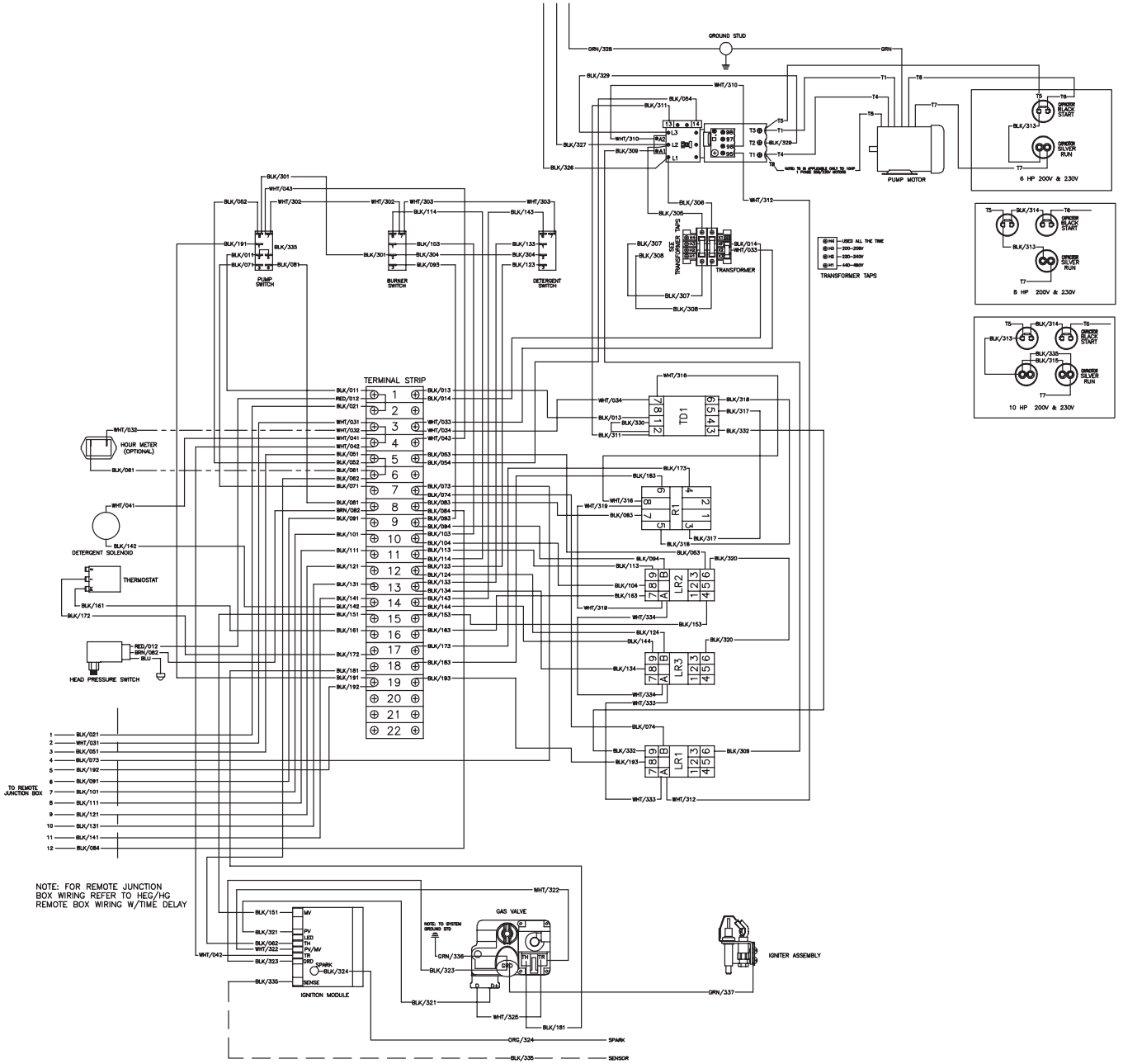
WIRE SCHEMATIC GH-2004_3004-1230 WITH TIME DELAY AND REMOTES (HX-0109)



HEG-1805/2004/3004/3005-0E2G/8G W/
TIME DELAY AND REMOTES WIRE
SCHEMATIC-060106-BVO

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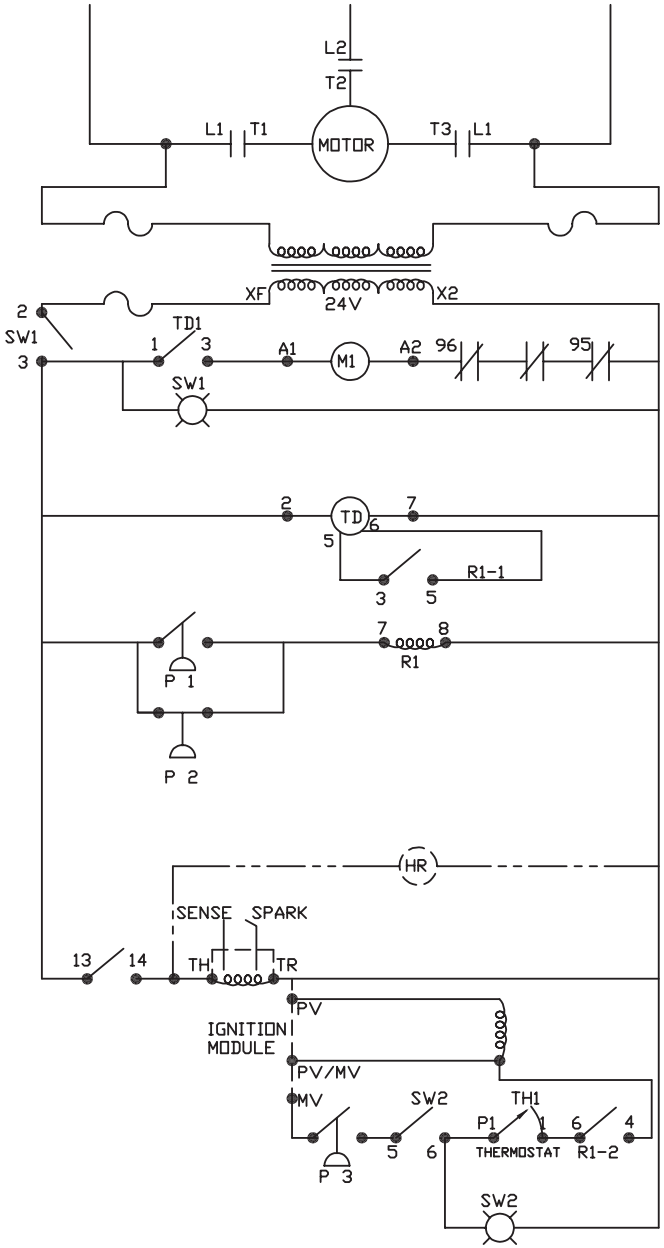
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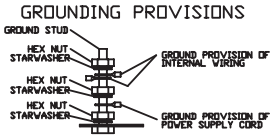


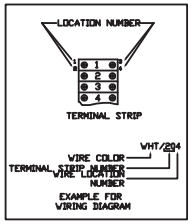
HEG-1805/2004/3004/3005-0E2G/8G W/
TIME DELAY AND REMOTES
WIRE DIAGRAM-060106-BVO

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WIRE SCHEMATIC GH-2004_3004-1230 WITH AUTO START/STOP (HX-0111)



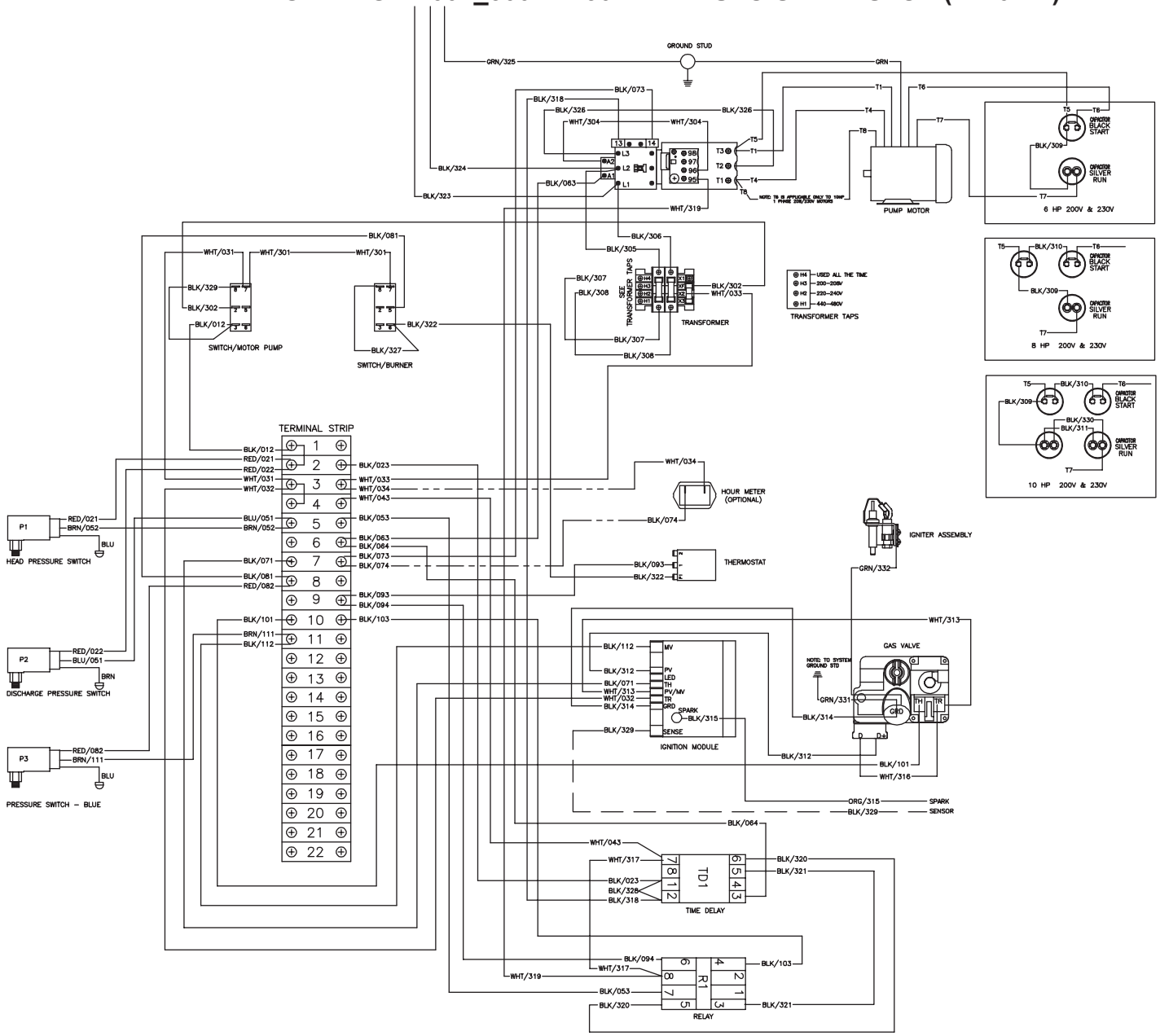




HEG-1805/2004/3004/3005-0E2G/8G W/ AUTO
START STOP WIRE SCHEMATIC-060106-BVO

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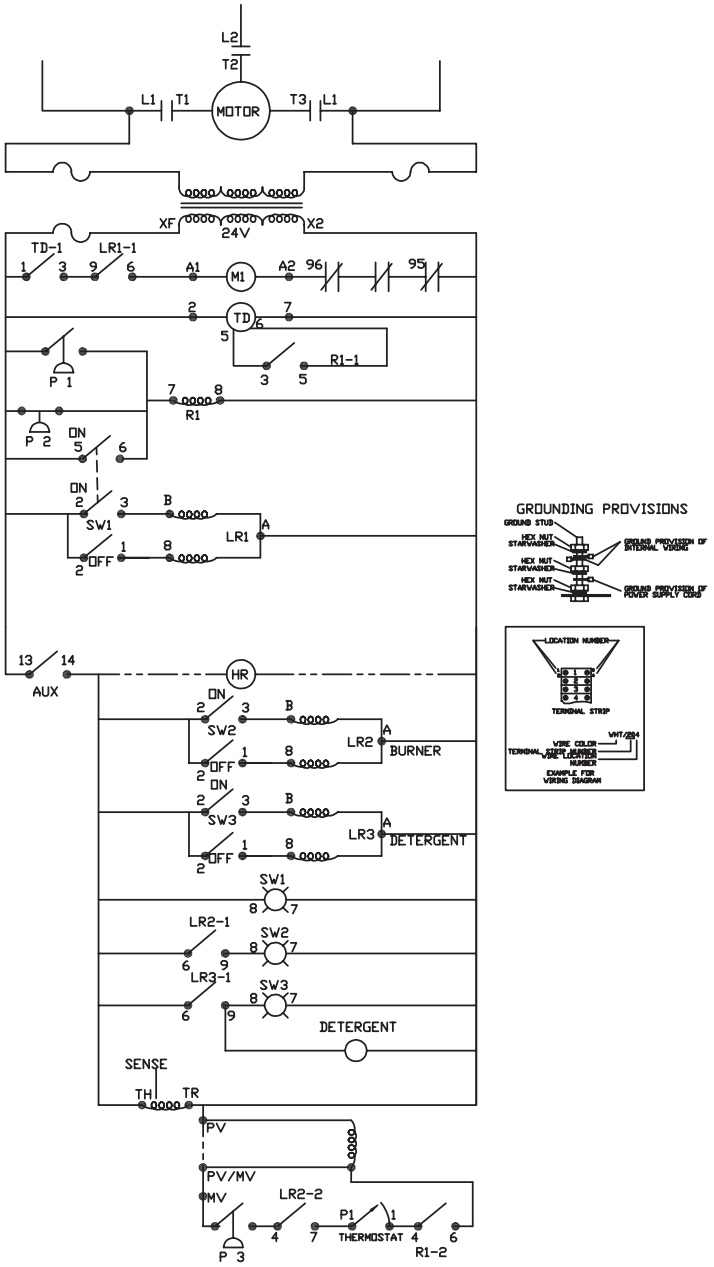
WIRE DIAGRAM GH-2004_3004-1230 WITH AUTO START/STOP (HX-0111)



HEG-1805/2004/3004/3005-0E2G/8G W/ AUTO START STOP WIRE DIAGRAM-060106-BVO

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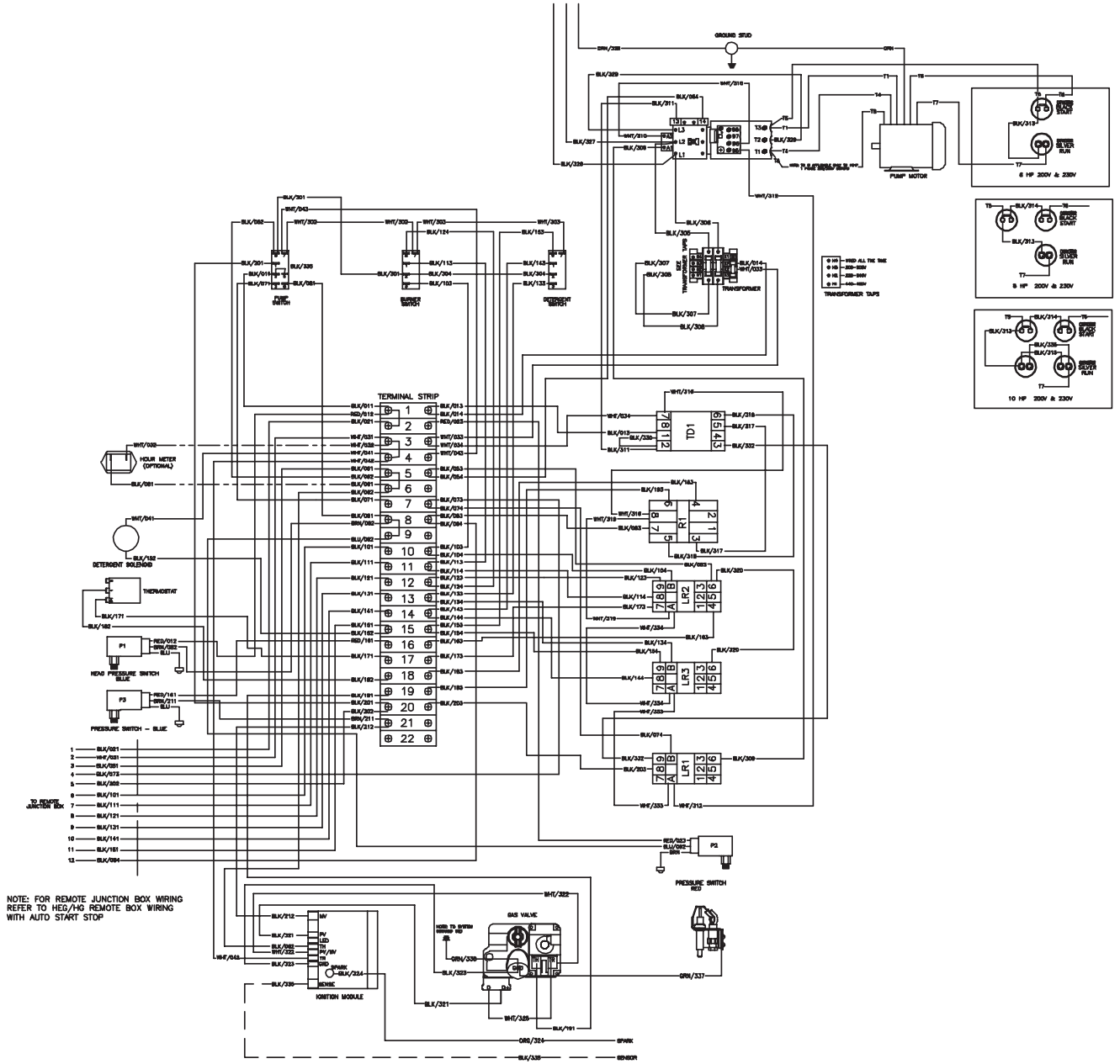
WIRE SCHEMATIC GH-2004_3004-1230 WITH AUTO START/STOP AND REMOTES (HX-0124)



HEG-1805/2004/3004/3005-0E2G/8G W/
AUTO START STOP AND REMOTES WIRE
SCHEMATIC-060106-BVO

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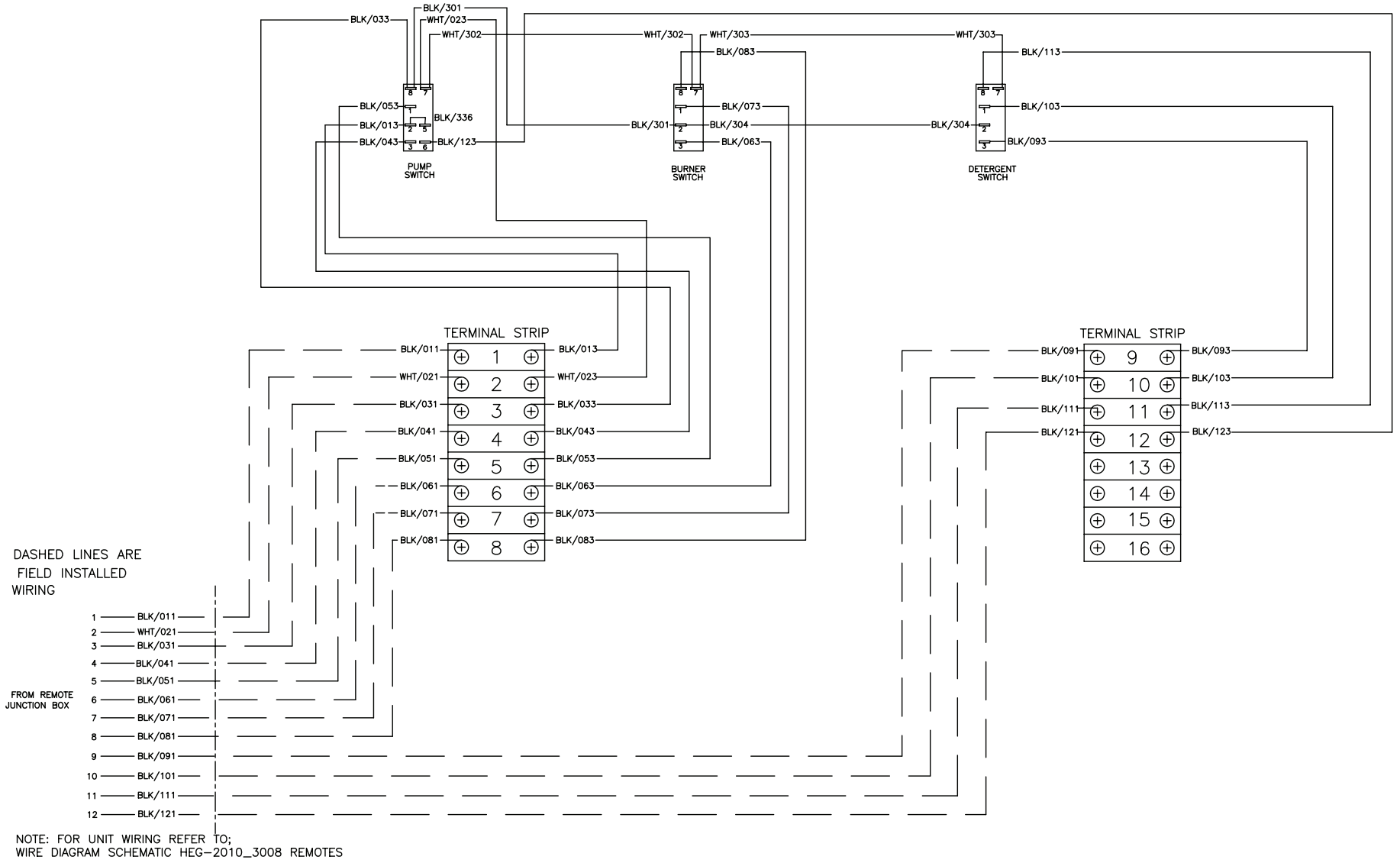
WIRE DIAGRAM GH-2004_3004-1230 WITH AUTO START/STOP AND REMOTES (HX-0124)



HEG-1805/2004/3004/3005-0E2G/8G W/
AUTO START STOP AND REMOTES
WIRE DIAGRAM-060106-BVO

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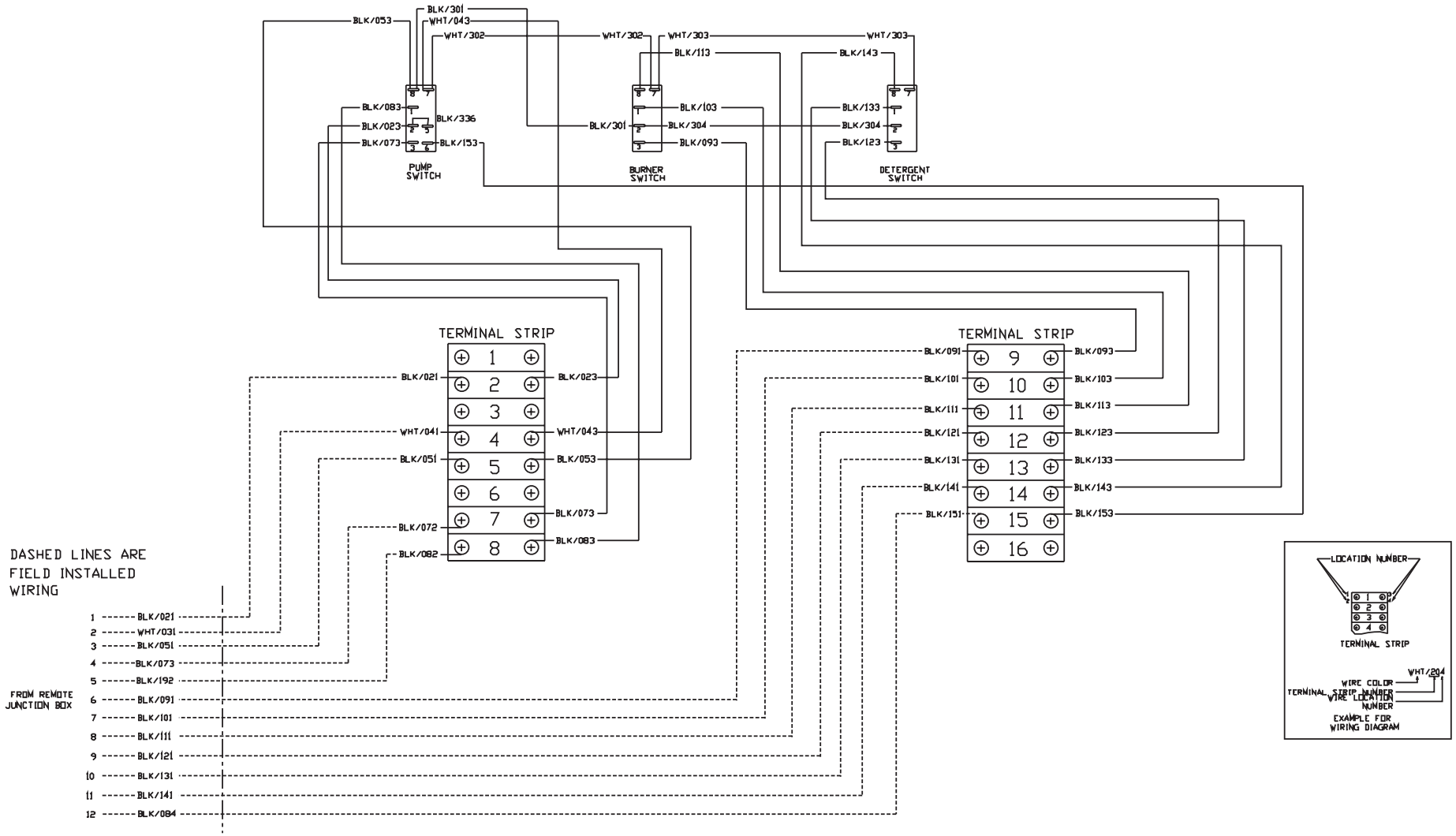
WIRE DIAGRAM FOR REMOTE BOX (HX-0108 AND HX-0110)



HEG REMOTE BOX WIRING-032203-KZ

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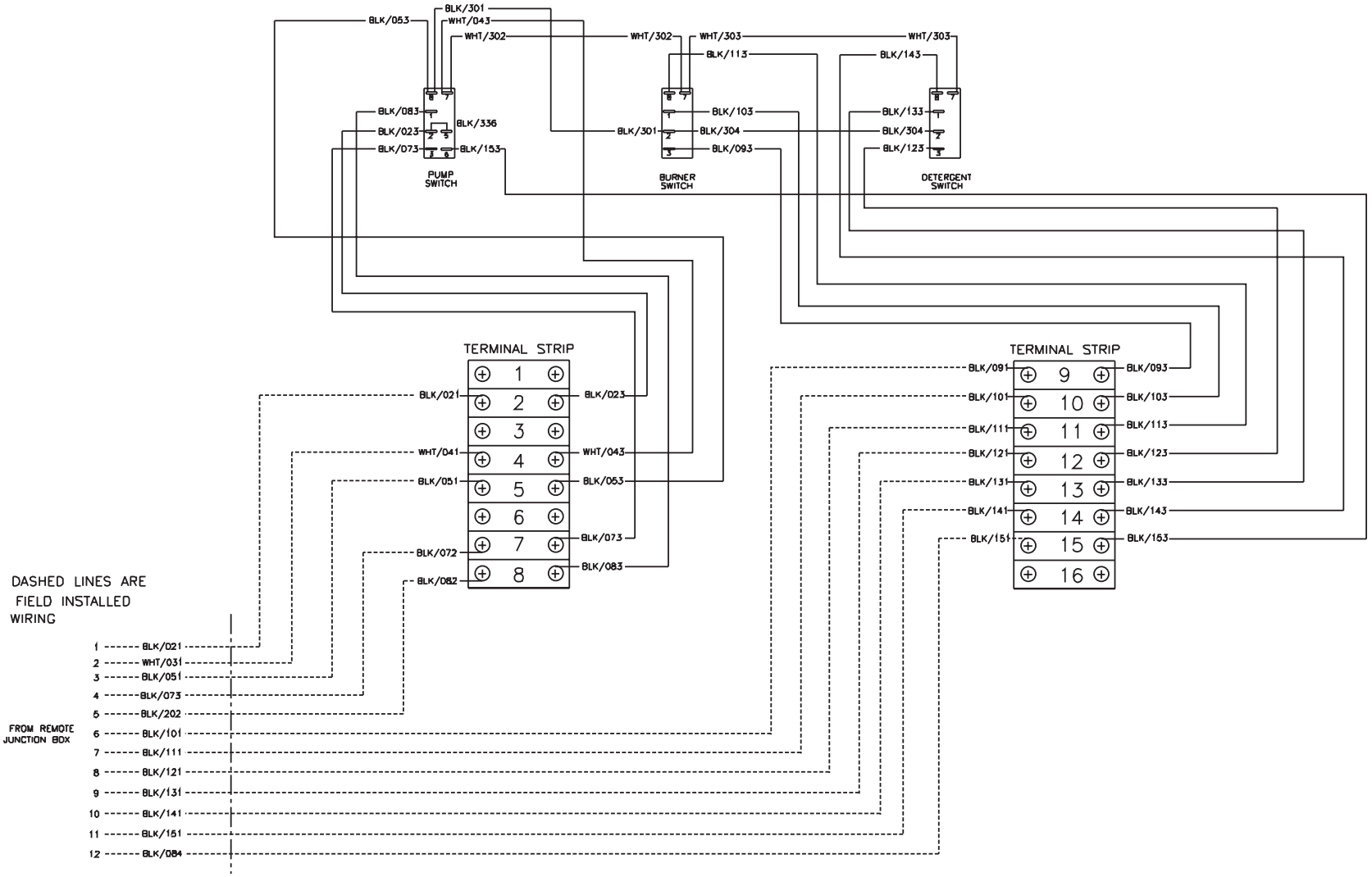
WIRE DIAGRAM FOR REMOTE BOX WITH TIME DELAY (HX-0109 AND HX-0110)



HEG REMOTE BOX WIRING WITH TIME DELAY-032203-KZ

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WIRE DIAGRAM FOR REMOTE BOX WITH AUTO START/STOP (HX-0110 AND HX-0124)



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