

PARTS LIST FOR ***HHS SERIES***

PUMP OIL GRADE:
PUMP OIL CAPACITY:
FUEL NOZZLE:

HHS-1002:
HHS-1003:
HHS-2004:
HHS-3004:
HHS-3005:

SAE20 or 30 Non-Detergent
41 oz.

1.00 90°A Delavan
1.50 90°A Delavan
2.25 80°B Delavan
2.00 80°B Delavan
2.50 80°B Delavan

BTU INPUT:

HHS-1002: 172,200
HHS-1003: 257,600
HHS-2004: 386,400
HHS-3004: 341,800
HHS-3005: 428, 400

PRESSURE NOZZLE SIZE:

HHS-1002: 4.0
HHS-3004: 4.5
HHS-1003/3005: 5.5
HHS-2004: 6.0

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 USING OR REPAIRING THIS UNIT! READ AND FOLLOW THE SAFETY WARNINGS LISTED BELOW BEFORE ATTEMPTING ANY REPAIRS ON THIS PRESSURE WASHER!

SAFETY WARNINGS

1. NEVER alter or modify the equipment. Be sure any accessory items and system components being used will withstand the pressure developed. Use only genuine manufacturer parts for repair of your pressure washer. Failure to do so can cause hazardous operating conditions and will VOID warranty.
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. 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 the 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.
4. Do not operate the unit without all protective covers in place. Know how to stop and bleed pressures quickly. Be thoroughly familiar with controls.
5. Before servicing the unit, turn unit off, and trigger the gun to release trapped pressure. Do not make repairs while the unit is running. Service in a clean, dry, flat area.
6. After testing the machine, DO NOT leave the pressurized unit unattended. Shut off the unit and release trapped pressure before leaving.

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SPECIFICATIONS FOR HHS-1002

MODEL NUMBER	HHS-1002-1E1G	HHS-1002-1E1A
Operating Pressure (PSI/Bar):	1000/69	
Water Volume (GPM/lpm):	2.0/7.6	
Outlet Water Temperature (F/C):	140°F/ 78°C (+/- 10°F) rise above inlet ambient (210°F/ 99°C maximum)	
Electrical System:		
Phase	Single	
Hz	60	
Voltage	115	
Total System Amperage	18.2	16.2
On/ Off Switch	Industrial Cam Switch	
Motor (Pump):	ODP	
Horsepower	1.5	
RPM	1750	
Amperage	13.2	
Service Factor	1.15	
High Pressure Pump:	Belt Driven, Oil Bath, Triplex Piston	
Oil Type	SAE20 or 30 Non-Detergent	
Oil Capacity (oz. / liters)	41/1.2	15/45
Plungers	Ceramic	
Manifold	Forged Brass	
Valves	Stainless Steel	
Water System:		
Inlet Water Strainer	Removable Thimble for inspection and cleaning of Stainless Steel Screen	
Float Tank Strainer	Removable Strainer for inspection and cleaning of Stainless Steel Screen	
Float Tank Capacity (Gal. / Liters)	4.75/18.0	
Unloader	Pressure Trapping, Preset	
Thermal Relief Valve	Protects pump against damaging heat in recirculated and inlet water.	
Detergent System	Adjustable Metering Valve	
Burner Fuel System:		
Fuel Type	No.1 or No.2 Fuel Oil, Diesel or Kerosene	
Fuel Capacity (Gal. / liters)	10/37.8	
Fuel Filter/ Water Separator	Spin on (10 micron) filter/ E-Z water drain	
Fuel Pump	Two Line, Single Stage	
Fuel Pressure (PSI / BAR)	150/10.4	
Fuel Nozzle	1.00 90° A Delavan	
Fuel Consumption (GPH / LPH)	1.23/4.65 Cont. Burning	
Burner Electrical System:		
Voltage	115	
Amps	3.0	
Heat Exchanger:	Horizontal, Side Fired, Pancake Coil	
BTU Input	172,200	
Efficiency	75% with #2 Fuel Oil/ Diesel	
Smoke Density	0-3 per ASTM D2156	
Safety Relief:		
Pressure Switch	Shuts off burner fuel supply upon trigger release	
Fuel Solenoid Valve	115 Volt. controls fuel supply to burner	
Safety Relief	Relieves excess system pressure	
High Pressure Nozzle:	4.0	
Unit Net Weight (lbs/kg)	486/220.5	481/218.6
Unit Shipping Weight (lbs/kg)	606/275	601/273.2
Unit Net Dimension (in/cm)	56.5Lx30Wx41.5H/143.5Lx76Wx105.5H	
Unit Shipping Dimension (in/cm)	57.5Lx35.5Wx59.5H/146Lx90Wx151H	
Warranty:		
Unit	(2) Two Year Limited Warranty	
Coil	(5) Five Year Limited Warranty	
AR Pump Crankcase	(5) Five Year Limited Warranty	
General Pump Crankcase	(10) Ten Year Limited Warranty	
Pump Manifold	Lifetime Limited Warranty	

SPECIFICATIONS FOR HHS-1003

MODEL NUMBER	HHS-1003-1E1G	HHS-1003-1E1A
Operating Pressure (PSI/Bar):	1000/69	
Water Volume (GPM/lpm):	2.8/10.6	
Outlet Water Temperature (F/C):	140°F/ 78°C (+/- 10°F) rise above inlet ambient (210°F/ 99°C maximum)	
Electrical System:		
Phase	Single	
Hz	60	
Voltage	115	
Total System Amperage	20.0	19.8
On/ Off Switch	Industrial Cam Switch	
Motor (Pump):	ODP	
Horsepower	2.0	
RPM	3450	
Amperage	16.8	
Service Factor	1.15	
High Pressure Pump:	Belt Driven, Oil Bath, Triplex Piston	
Oil Type	SAE20 or 30 Non-Detergent	
Oil Capacity (oz. / liters)	41/1.2	15/.45
Plungers	Ceramic	
Manifold	Forged Brass	
Valves	Stainless Steel	
Water System:		
Inlet Water Strainer	Removable Thimble for inspection and cleaning of Stainless Steel Screen	
Float Tank Strainer	Removable Strainer for inspection and cleaning of Stainless Steel Screen	
Float Tank Capacity (Gal. / Liters)	4.75/18.0	
Unloader	Pressure Trapping, Preset	
Thermal Relief Valve	Protects pump against damaging heat in recirculated and inlet water.	
Detergent System	Adjustable Metering Valve	
Burner Fuel System:		
Fuel Type	No.1 or No.2 Fuel Oil, Diesel or Kerosene	
Fuel Capacity (Gal. / liters)	10/37.8	
Fuel Filter/ Water Separator	Spin on (10 micron) filter/ E-Z water drain	
Fuel Pump	Two Line, Single Stage	
Fuel Pressure (PSI / BAR)	150/10.4	
Fuel Nozzle	1.50 90° A Delavan	
Fuel Consumption (GPH / LPH)	1.84/6.96 Cont. Burning	
Burner Electrical System:		
Voltage	115	
Amps	3.0	
Heat Exchanger:	Horizontal, Side Fired, Pancake Coil	
BTU Input	257,600	
Efficiency	75% with #2 Fuel Oil/ Diesel	
Smoke Density	0-3 per ASTM D2156	
Safety System:		
Pressure Switch	Shuts off burner fuel supply upon trigger release	
Fuel Solenoid Valve	115 Volt, controls fuel supply to burner	
Safety Relief	Relieves excess system pressure	
High Pressure Nozzle:	5.5	
Unit Net Weight (Lbs/Kg)	490/222.5	485/220.5
Unit Shipping Weight (Lbs/Kg)	610/277	605/275
Unit Net Dimension (In/Cm)	56.5Lx30Wx41.5H/143.5Lx76Wx105.5H	
Unit Shipping Dimension (In/Cm)	57.5Lx35.5Wx59.5H/146Lx90Wx151H	
Warranty:		
Unit	(2) Two Year Limited Warranty	
Coil	(5) Five Year Limited Warranty	
AR Pump Crankcase	(5) Five Year Limited Warranty	
General Pump Crankcase	(10) Ten Year Limited Warranty	
Pump Manifold	Lifetime Limited Warranty	

SPECIFICATIONS FOR HHS-2004

MODEL NUMBER	HHS-2004-1E2G	HHS-2004-1E2A	HHS-2004-1E3G	HHS-2004-1E3A	HHS-2004-1E4G	HHS-2004-1E4A	HHS-2004-1E8G	HHS-2004-1E8A	HHS-2004-1E9G	HHS-2004-1E9A
Operating Pressure (PSI/Bar):	2000/138									
Water Volume (GPM/lpm):	4.2/15.9									
Outlet Water Temperature (F/C):	140°F/ 78°C (+/- 10°F) rise above inlet ambient (210°F/ 99°C maximum)									
Electrical System:										
Phase	Single		Three				Single		Three	
Hz	60									
Voltage	230				460		208			
Total System Amperage	28.0		18.5		12.0		30.7		21.0	
On/ Off Switch	Industrial Rocker Switch									
Motor (Pump):	ODP									
Horsepower	6.0									
RPM	1750									
Amperage	25.5		16.0		8.0		28.2		18.5	
Service Factor	1.15									
High Pressure Pump:	Belt Driven, Oil Bath, Triplex Piston									
Oil Type	SAE20 or 30 Non-Detergent									
Oil Capacity (oz. / liters)	41/1.2	15/45	41/1.2	15/45	41/1.2	15/45	41/1.2	15/45	41/1.2	15/45
Plungers	Ceramic									
Manifold	Forged Brass									
Valves	Stainless Steel									
Water System:										
Inlet Water Strainer	Removable Thimble for inspection and cleaning of Stainless Steel Screen									
Float Tank Strainer	Removable Strainer for inspection and cleaning of Stainless Steel Screen									
Float Tank Capacity (Gal. / Liters)	4.75/18.0									
Unloader	Pressure Trapping, Preset									
Thermal Relief Valve	Protects pump against damaging heat in recirculated and inlet water.									
Detergent System	Adjustable Metering Valve									
Burner Fuel System:										
Fuel Type	No.1 or No.2 Fuel Oil, Diesel or Kerosene									
Fuel Capacity (Gal. / liters)	10/37.8									
Fuel Filter/ Water Separator	In-Line Filter/ E-Z water drain									
Fuel Pump	Two Line, Single Stage									
Fuel Pressure (PSI / BAR)	150/10.4									
Fuel Nozzle	2.25 80° B Delavan									
Fuel Consumption (GPH / LPH)	2.76/10.4 Cont. Burning									
Burner Electrical System:										
Voltage	230				115		230			
Amps	2.5				4.0		2.5			
Heat Exchanger:	Horizontal, Top Fired, Dual Spiral Coil									
BTU Input	386,400									
Efficiency	75% with #2 Fuel Oil/ Diesel									
Smoke Density	0-3 per ASTM D2156									
Safety Relief:										
Pressure Switch	Shuts off burner fuel supply upon trigger release									
Fuel Solenoid Valve	115 Volt, controls fuel supply to burner									
Safety Relief	Relieves excess system pressure									
High Pressure Nozzle:	6.0									
Unit Net Weight (Lbs/Kg)	550/249									
Unit Shipping Weight (Lbs/Kg)	670/304.1									
Unit Net Dimension (In/Cm)	56.5Lx30Wx41.5H/143.5Lx76Wx105.5H									
Unit Shipping Dimension (In/Cm)	57.5Lx35.5Wx59.5H/146Lx90Wx151H									
Warranty:										
Unit	(2) Two Year Limited Warranty									
Coil	(5) Five Year Limited Warranty									
AR Pump Crankcase	(5) Five Year Limited Warranty									
General Pump Crankcase	(10) Ten Year Limited Warranty									
Pump Manifold	Lifetime Limited Warranty									

SPECIFICATIONS FOR HHS-3004

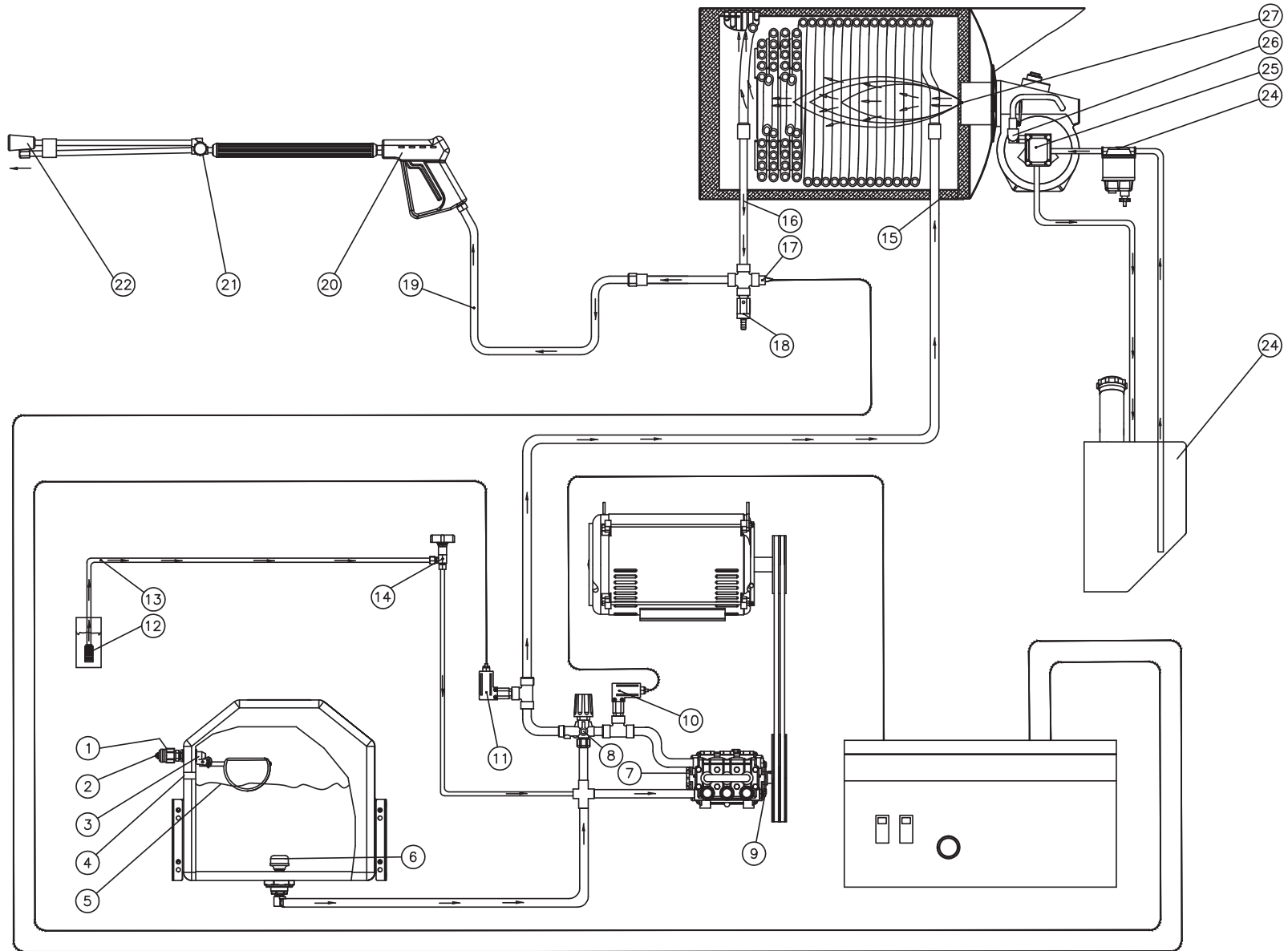
MODEL NUMBER	HHS-3004-1E2G	HHS-3004-1E2A	HHS-3004-1E3G	HHS-3004-1E3A	HHS-3004-1E4G	HHS-3004-1E4A	HHS-3004-1E5G	HHS-3004-1E5A	HHS-3004-1E8G	HHS-3004-1E8A	HHS-3004-1E9G	HHS-3004-1E9A
Operating Pressure (PSI/Bar):	3000/207											
Water Volume (GPM/lpm):	3.9/14.7											
Outlet Water Temperature (F/C):	140°F/ 78°C (+/- 10°F) rise above inlet ambient (210°F/ 99°C maximum)											
Electrical System:												
Phase	Single		Three						Single		Three	
Hz	60											
Voltage	230				460		575		208			
Total System Amperage	39.5		22.5		14.0		12.0		43.0		25.5	
On/ Off Switch	Industrial Rocker Switch											
Motor (Pump):	ODP											
Horsepower	8.0											
RPM	1750											
Amperage	37.0		20.0		10.0		8.0		40.5		23.0	
Service Factor	1.15											
High Pressure Pump:	Belt Driven, Oil Bath, Triplex Piston											
Oil Type	SAE20 or 30 Non-Detergent											
Oil Capacity (oz. / liters)	41/1.2	15/45	41/1.2	15/45	41/1.2	15/45	41/1.2	15/45	41/1.2	15/45	41/1.2	15/45
Plungers	Ceramic											
Manifold	Forged Brass											
Valves	Stainless Steel											
Water System:												
Inlet Water Strainer	Removable Thimble for inspection and cleaning of Stainless Steel Screen											
Float Tank Strainer	Removable Strainer for inspection and cleaning of Stainless Steel Screen											
Float Tank Capacity (Gal. / Liters)	4.75/18.0											
Unloader	Pressure Trapping, Preset											
Thermal Relief Valve	Protects pump against damaging heat in recirculated and inlet water.											
Detergent System	Adjustable Metering Valve											
Burner Fuel System:												
Fuel Type	No.1 or No.2 Fuel Oil, Diesel or Kerosene											
Fuel Capacity (Gal. / liters)	10/37.8											
Fuel Filter/ Water Seperator	In-Line Filter/ E-Z water drain											
Fuel Pump	Two Line, Single Stage											
Fuel Pressure (PSI / BAR)	150/10.4											
Fuel Nozzle	2.00 80° B Delavan											
Fuel Consumption (GPH / LPH)	2.14/ 8.1 Cont. Burning											
Burner Electrical System:												
Voltage	230				115				230			
Amps	2.5				4.0				2.5			
Heat Exchanger:	Horizontal, Side Fired, Pancake Coil											
BTU Input	341,800											
Efficiency	75% with #2 Fuel Oil/ Diesel											
Smoke Density	0-3 per ASTM D2156											
Safety System:												
Pressure Switch	Shuts off burner fuel supply upon trigger release											
Fuel Solenoid Valve	115 Volt, controls fuel supply to burner											
Safety Relief	Relieves excess system pressure											
High Pressure Nozzle:	4.5											
Unit Net Weight (Lbs/Kg)	580/263.2											
Unit Shipping Weight (Lbs/Kg)	700/317.6											
Unit Net Dimension (In/Cm)	56.5Lx30Wx38.5H/143.5Lx76Wx98H											
Unit Shipping Dimension (In/Cm)	57.5Lx35.5Wx59.5H/146Lx90Wx151H											
Warranty:												
Unit	(2) Two Year Limited Warranty											
Coil	(5) Five Year Limited Warranty											
AR Pump Crankcase	(5) Five Year Limited Warranty											
General Pump Crankcase	(10) Ten Year Limited Warranty											
Pump Manifold	Lifetime Limited Warranty											

SPECIFICATIONS FOR HHS-3005

MODEL NUMBER	HHS-3005-1E2G	HHS-3005-1E2A	HHS-3005-1E3G	HHS-3005-1E3A	HHS-3005-1E4G	HHS-3005-1E4A	HHS-3005-1E5G	HHS-3005-1E5A	HHS-3005-1E8G	HHS-3005-1E8A	HHS-3005-1E9G	HHS-3005-1E9A
Operating Pressure (PSI/Bar):	3000/207											
Water Volume (GPM/lpm):	4.8/18.1											
Outlet Water Temperature (F/C):	140°F/ 78°C (+/- 10°F) rise above inlet ambient (210°F/ 99°C maximum)											
Electrical System:												
Phase	Single		Three						Single		Three	
Hz	60											
Voltage	230				460		575		208			
Total System Amperage	46.5		27.5		16.5		14.0		50.7		31.5	
On/ Off Switch	Industrial Rocker Switch											
Motor (Pump):	ODP											
Horsepower	10.0											
RPM	1750											
Amperage	44.0		25.0		12.5		10.0		48.2		27.6	
Service Factor	1.15											
High Pressure Pump:	Belt Driven, Oil Bath, Triplex Piston											
Oil Type	SAE20 or 30 Non-Detergent											
Oil Capacity (oz. / liters)	41/1.2											
Plungers	Ceramic											
Manifold	Forged Brass											
Valves	Stainless Steel											
Water System:												
Inlet Water Strainer	Removable Thimble for inspection and cleaning of Stainless Steel Screen											
Float Tank Strainer	Removable Strainer for inspection and cleaning of Stainless Steel Screen											
Float Tank Capacity (Gal. / Liters)	4.75/18.0											
Unloader	Pressure Trapping, Adjustable											
Thermal Relief Valve	Protects pump against damaging heat in recirculated and inlet water.											
Detergent System	Adjustable Metering Valve											
Burner Fuel System:												
Fuel Type	No.1 or No.2 Fuel Oil, Diesel or Kerosene											
Fuel Capacity (Gal. / liters)	10/37.8											
Fuel Filter/ Water Separator	In-Line Filter/ E-Z water drain											
Fuel Pump	Two Line, Single Stage											
Fuel Pressure (PSI/ BAR)	150/10.4											
Fuel Nozzle	2.50 80° B Delavan											
Fuel Consumption (GPH / LPH)	3.06/11.58 Cont. Burning											
Burner Electrical System:												
Voltage	208				115				230			
Amps	2.5				4.0				2.5			
Heat Exchanger:	Horizontal, Side Fired, Pancake Coil											
BTU Input	428,400											
Efficiency	75% with #2 Fuel Oil/ Diesel											
Smoke Density	0-3 per ASTM D2156											
Safety System:												
Pressure Switch	Activates Auto Start/Stop feature											
Fuel Solenoid Valve	115 Volt, controls fuel supply to burner											
Safety Relief	Relieves excess system pressure											
High Pressure Nozzle:	5.5											
Unit Net Weight (Lbs/Kg)	584/265											
Unit Shipping Weight (Lbs/Kg)	704/319.5											
Unit Net Dimension (In/Cm)	56.5Lx30Wx41.5H/143.5Lx76Wx105.5H											
Unit Shipping Dimension (In/Cm)	57.5Lx35.5Wx59.5H/146Lx90Wx151H											
Warranty:												
Unit	(2) Two Year Limited Warranty											
Coil	(5) Five Year Limited Warranty											
AR Pump Crankcase	(5) Five Year Limited Warranty											
Pump Crankcase	(10) Ten Year Limited Warranty											
Pump Manifold	Lifetime Limited Warranty											

NOTES

FLOW CHART



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 the unit through the overflow tube.

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 THERMAL RELIEF VALVE (9) will open at 140°F/60°C allowing the heated water to escape. The Thermal Relief Valve automatically resets when the water cools. The BURNER CONTROL PRESSURE SWITCH (10) controls the fuel supply to the burner and may activate the timer when the unit is equipped with a Auto Start/Stop Option and/or Time Delay Option. Following is the AUTO START/STOP PRESSURE SWITCH* (11) which controls the fuel supply in the steam mode and activates the shut-off of the Auto Start/Stop feature.

When using detergents, the solution passes through the DETERGENT STRAINER (12) located on the DETERGENT HOSE (13). The detergent solution then travels through the DETERGENT METERING VALVE (14).

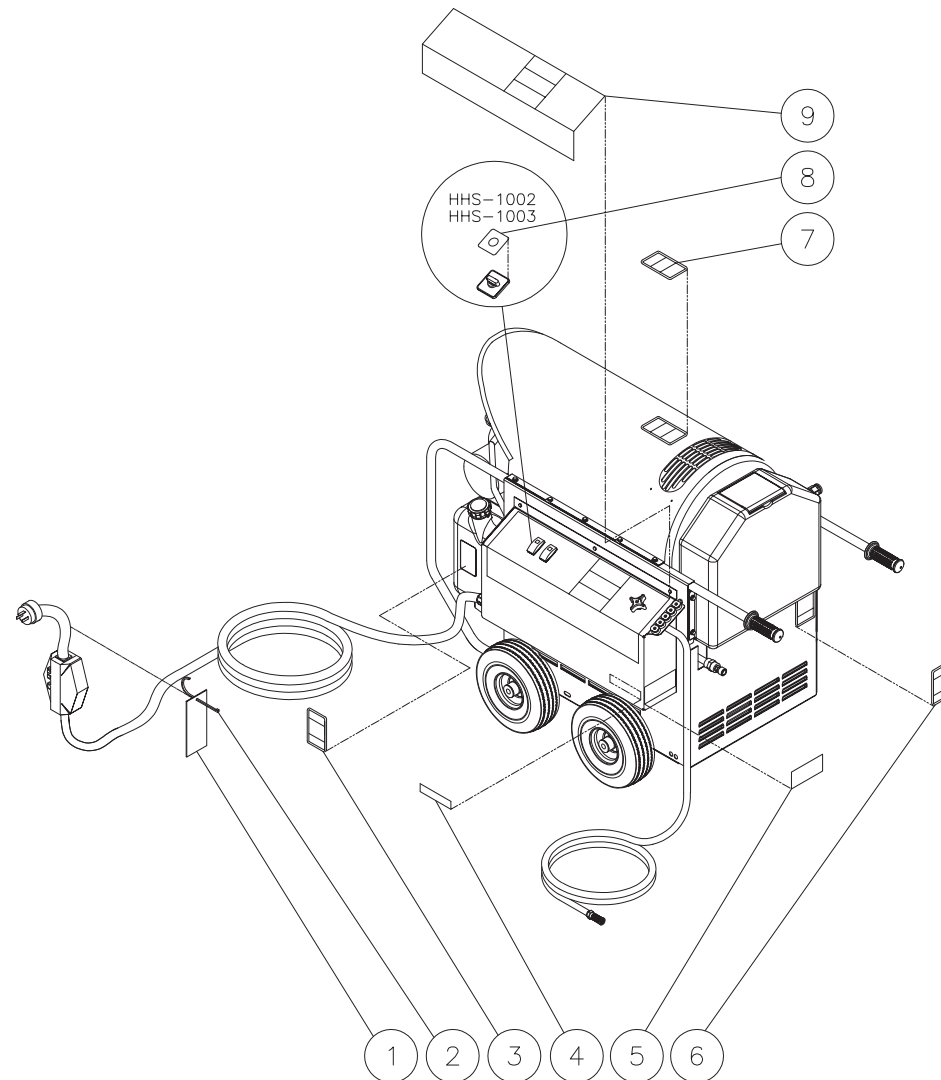
From there, the water flows through HEAT EXCHANGER INLET (15) where it is heated when the burner is on. As the water exits the HEAT EXCHANGER OUTLET (16), it enters a safety system which protects the operator from danger. The safety system contains an ADJUSTABLE THERMOSTAT (17) which controls the working temperature of the unit, allowing the operator to set the unit to the desired water temperature setting. If the unloader fails to bypass water or the burner remains on when the trigger gun is closed, the SAFETY RELIEF VALVE (18) will relieve and allow water to exit safely.

The heated water then flows through the HIGH PRESSURE HOSE (19) and to the TRIGGER GUN ASSEMBLY (20) which allows the operator to control the water spray. When the trigger gun is open, the water flows through the ADJUSTABLE PRESSURE DUAL LANCE (21) and exits the NOZZLE (22).

FUEL FLOW: The Fuel Pump draws fuel from the FUEL TANK (23) through a replaceable FUEL FILTER/WATER SEPARATOR (24) and into the FUEL PUMP (25). Fuel exits the fuel pump, into a FUEL SOLENOID VALVE (26) which controls fuel flow to the FUEL NOZZLE (27) where it ignites and burns in the heat exchanger.

** Included with HX-0166 - Auto Start/Stop Option*

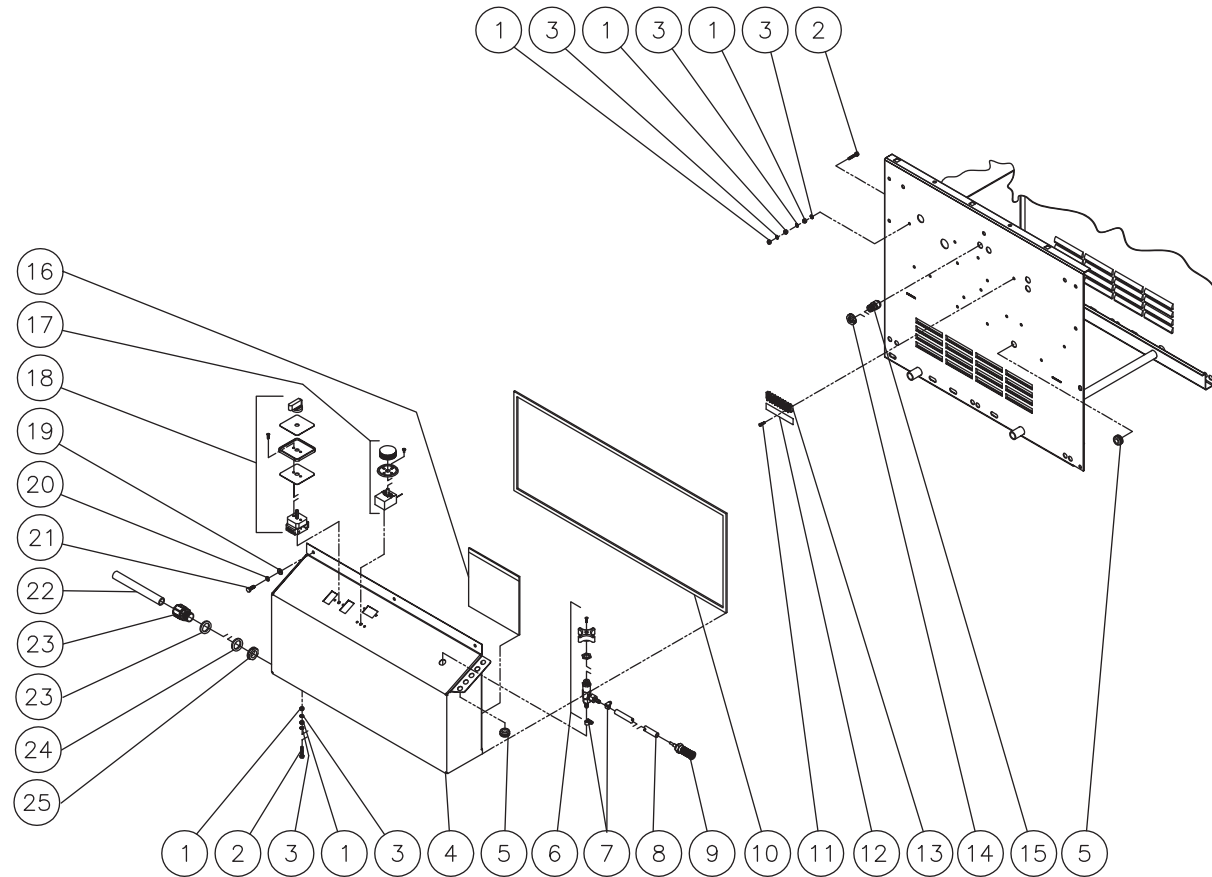
SAFETY DECAL PLACEMENT



HHS-SERIES SAFETY DECAL PLACEMENT-100405-RZ

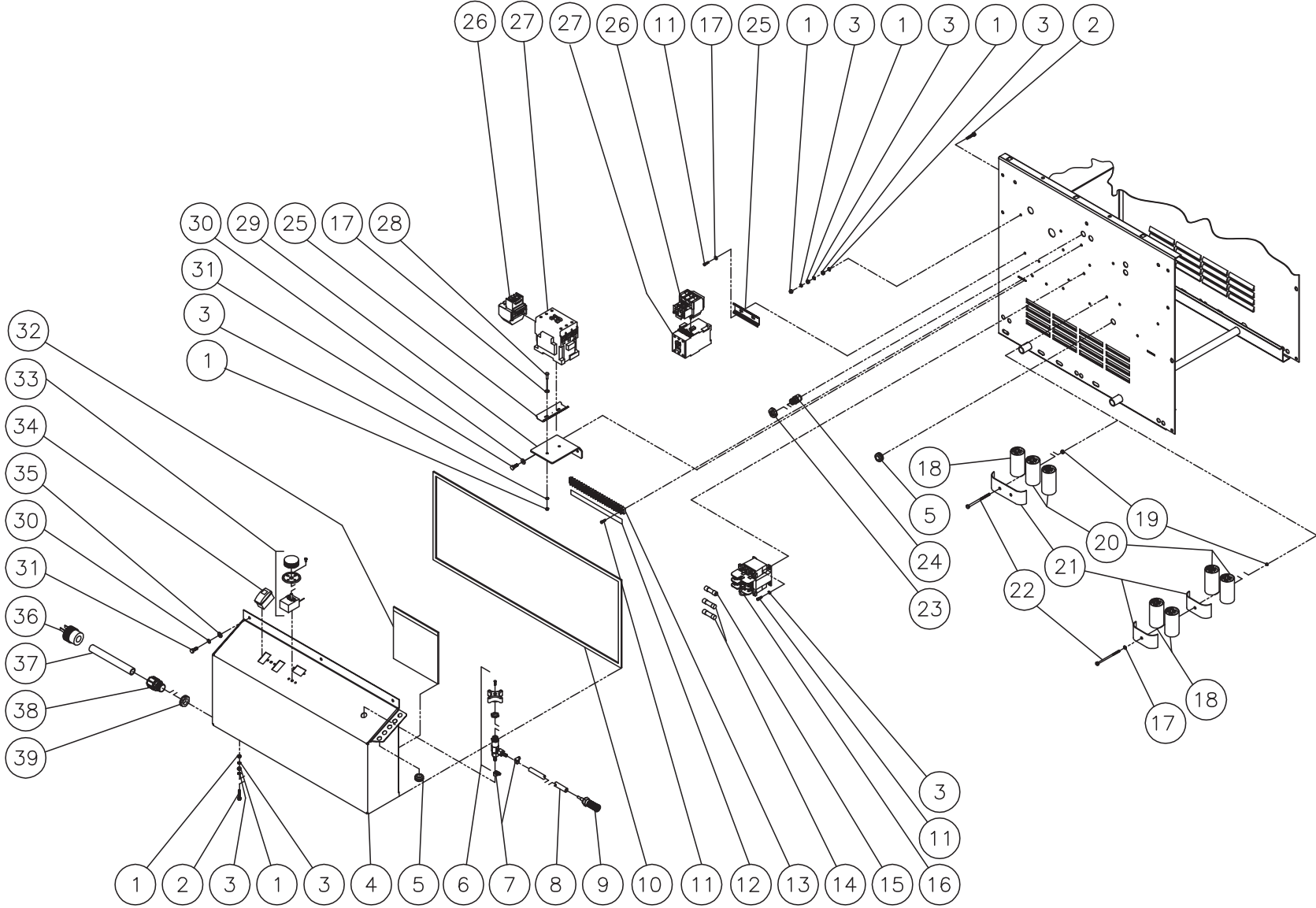
SAFETY DECAL PLACEMENT			
REF. #	DESCRIPTION	PART #	QTY.
1	Hang Tag: Warning: Risk of Electrocution (E/F/S)	34-1035	1
2	Cable Tie	33-0022	1
3	Decal- Caution: Risk of Fire (E/F/S) (See 34-9037)	N/A Sep.	1
4	Decal- Die Cut 1002 (HHS-1002)	34-0302	1
-	Decal- Die Cut 1003 (HHS-1003)	34-0325	1
-	Decal- Die Cut 2004 (HHS-2004)	34-0036	1
-	Decal- Die Cut 3004 (HHS-3004)	34-0105	1
-	Decal- Die Cut 3004 (HHS-3005)	34-0039	1
5	Decal- Data Plate	N/A	1
6	Decal- Warning: Risk of Injury (E/F/S) (See 34-9037)	N/A Sep.	1
7	Decal- Warning: Hot Surface (E/F/S) (See 34-9037)	N/A Sep.	1
8	Decal- Off/Pump/Burner (E/F/S) (HHS-1002/1003) (See 34-9037)	N/A Sep.	1
9	Decal- Warning/Caution/Operation (E/F/S) (HHS-2004/3004/3005) (See 34-9037)	N/A Sep.	1
-	Decal- Warning/Caution/Operation (E/F/S) (HHS-1002/1003) (See 34-9037)	N/A Sep.	1
	Safety Decal Kit (Inc. 3, 6-9)	34-9037	

ELECTRICAL BOX FOR HHS-1002/1003-1E1G/A



ELECTRIC BOX FOR HHS-1002/1003-1E1G/A								
REF. #	DESCRIPTION	PART #	QTY.		REF. #	DESCRIPTION	PART #	QTY.
1	Nut	30-6001	5		15	Strain Relief	32-0586	2
2	Bolt	27-8807	2		16	Envelope	41-0184	1
3	Washer	28-1009	5		17	Adjustable Thermostat	32-0734	1
4	Electric Box	20-0824A18	1		18	Cam Switch (HHS-1002)	32-0434	1
5	Grommet	33-0001	9		-	Cam Switch (HHS-1003)	32-0679	1
6	Detergent Valve	22-0226	1		19	Washer	28-0002	3
7	Hose Clamp	42-0004	2		20	Lockwasher	29-0006	3
8	Hose *(Six Feet Required)	15-0021	1		21	Bolt	27-0015	3
9	Detergent Strainer w/Check	19-0056	1		22	Cord	32-0215	1
10	Gasket	26-0240	1		23	Strain Relief	9-0046	1
11	Screw	27-8835	2		24	Washer	N/A	-
12	Decal- Terminal Strip (See 34-9037)	N/A Sep.	1		25	Locknut	32-0292	1
13	Terminal Strip	32-0436	1			Decal Kit (Inc. 12)	34-9037	
14	Locknut	32-0587	2	*Must Order in One Foot Lengths				

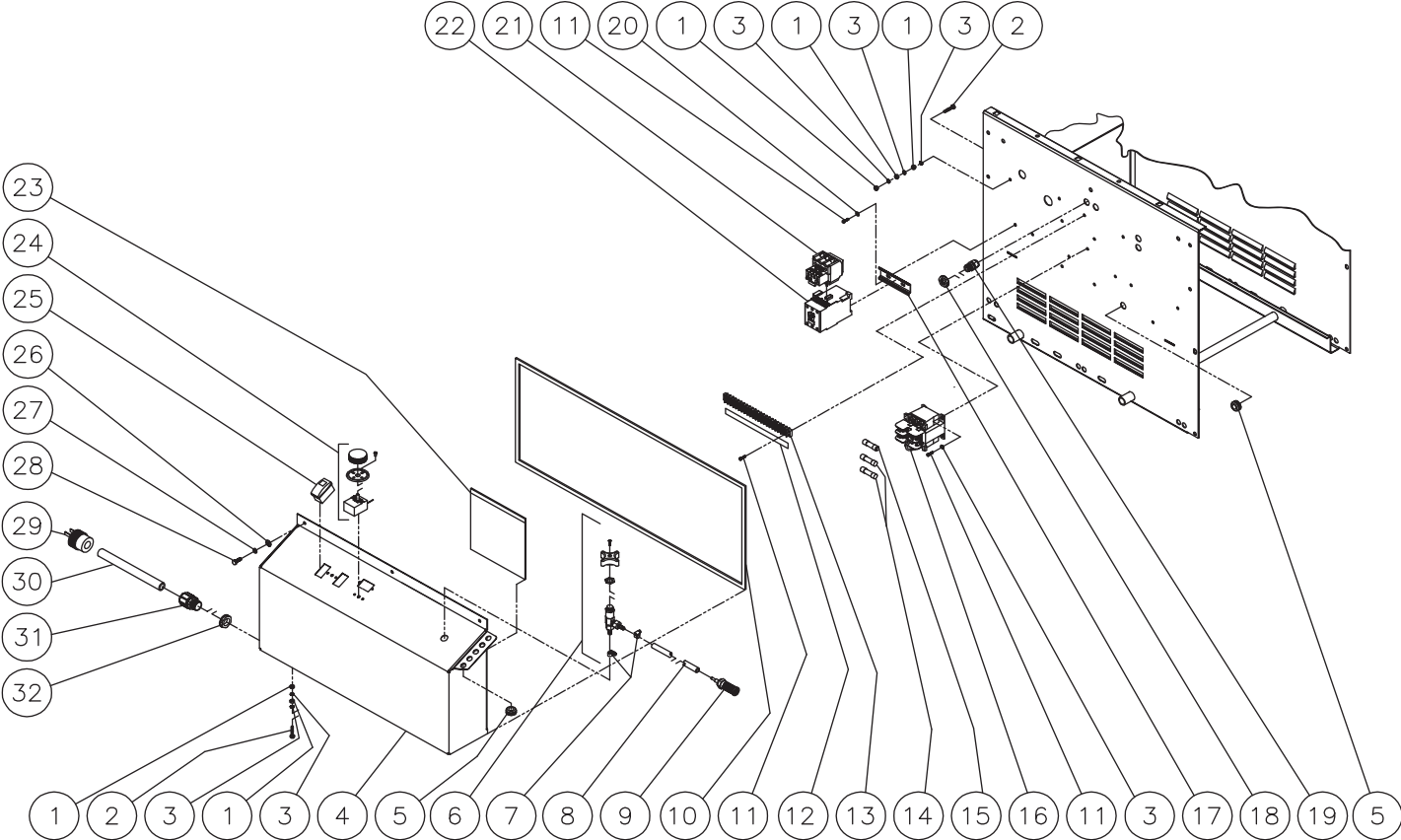
ELECTRICAL BOX FOR HHS-2004/3004/3005-1E2G/A & 1E8G/A



HHS-2004/3004/3005-1E2G/1E8G
ELECTRIC BOX-100405-RZ

ELECTRIC BOX FOR HHS-2004/3004/3005-1E2G/A & 1E8G/A							
REF. #	DESCRIPTION	PART #	QTY.	REF. #	DESCRIPTION	PART #	QTY.
1	Nut (HHS-2004/3004-1E2G/8G & HHS-3005-1E2G)	30-6001	5	22	Bolt (HHS-2004)	27-0024	1
-	Nut (HHS-3005-1E8G)	30-6001	7	-	Bolt (HHS-3004 & HHS-3005-1E2G/A)	27-0024	2
2	Bolt	27-8807	2	-	Bolt (HHS-3005-1E8G/A)	27-0759	1
3	Washer (HHS-2004/3004-1E2G/8G & HHS-3005-1E2G)	28-1009	7	23	Locknut	32-0587	1
-	Washer (HHS-3005-1E8G)	28-1009	9	24	Strain Relief	32-0586	1
4	Electric Box	20-0824A18	1	25	Din Rail *(One Foot Required)	32-0316	1
5	Grommet	33-0001	9	26	Overload Relay (HHS-2004-1E2G)	32-0484	1
6	Detergent Valve	22-0226	1	-	Overload Relay (HHS-2004-1E8G/A & HHS-3004)	32-0485	1
7	Hose Clamp	42-0004	2	-	Overload Relay (HHS-3005-1E8G/A)	32-0490	1
8	Hose *(Six Feet Required)	15-0021	1	27	Contactor (HHS-2004/3004)	32-0479	1
9	Detergent Strainer w/Check	19-0056	1	-	Contactor (HHS-3005)	32-0480	1
10	Gasket	26-0240	1	28	Bolt (HHS-3005-1E8G/A)	27-8878	2
11	Screw	27-8835	6	29	Contactor Bracket (HHS-3005)	20-0826A01	1
12	Decal- Terminal Strip (See 34-9037)	N/A Sep.	1	30	Washer (HHS-2004/3004)	28-0002	3
13	Terminal Strip	32-0463	1	-	Washer (HHS-3005)	28-0002	5
14	Fuse- 0.5 AMP	32-0467	2	31	Bolt (HHS-2004/3004)	27-0015	3
15	Fuse- 0.6 AMP	32-0471	1	-	Bolt (HHS-3005)	27-0015	5
16	Transformer	32-0313	1	32	Envelope	41-0184	1
17	Washer (HHS-2004/3004)	28-0001	2	33	Adjustable Thermostat	32-0734	1
-	Washer (HHS-3005)	28-0001	3	34	Rocker Switch	32-0669	2
18	Capacitor Run w/Motor (HHS-2004/3004)	32-0686	1	35	Lockwasher	29-0006	3
-	Capacitor Run w/Motor (HHS-3005)	32-0686	2	36	Plug (HHS-3004/3005 & HHS-2004-1E8G/A)	32-0012	1
19	Nut (HHS-2004)	30-0155	1	37	Cord (HHS-2004-1E2G/A)	32-0334	1
-	Nut (HHS-3004-3005)	30-0155	2	-	Cord *(Thirty-seven Feet Required) (HHS-2004-1E8G/A & HHS-3004-1E2G/A)	32-0021	1
-	Nut (HHS-3005-1E8G)	30-0154	1	-	Cord *(Thirty-seven Feet Required) (HHS-3004-1E8G/A & HHS-3005)	32-0504	1
20	Capacitor Start w/Motor (HHS-2004-1E2G)	32-0519	1	38	Strain Relief (HHS-3004-1E2G/A & HHS-2004)	9-0046	1
-	Capacitor Start w/Motor (HHS-2004-1E8G & HHS-3004/3005)	32-0519	2	-	Bushing Cord Strain Relief (HHS-3004-1E8G/A & HHS-3005)	9-0048	1
21	Capacitor Clamp w/Motor (HHS-2004)	20-0467	1	39	Locknut (HHS-3004-1E2G/A & HHS-2004)	32-0292	1
-	Capacitor Clamp w/Motor (HHS-3005-1E8G)	20-0467	3	-	Nut (HHS-3004-1E8G/A & HHS-3005)	32-0515	1
-	Capacitor Clamp (HHS-3004 & HHS-3005-1E2G)	20-0538A01	1		Decal Kit (Inc. 12)	34-9037	
*Must Order in One Foot Lengths							

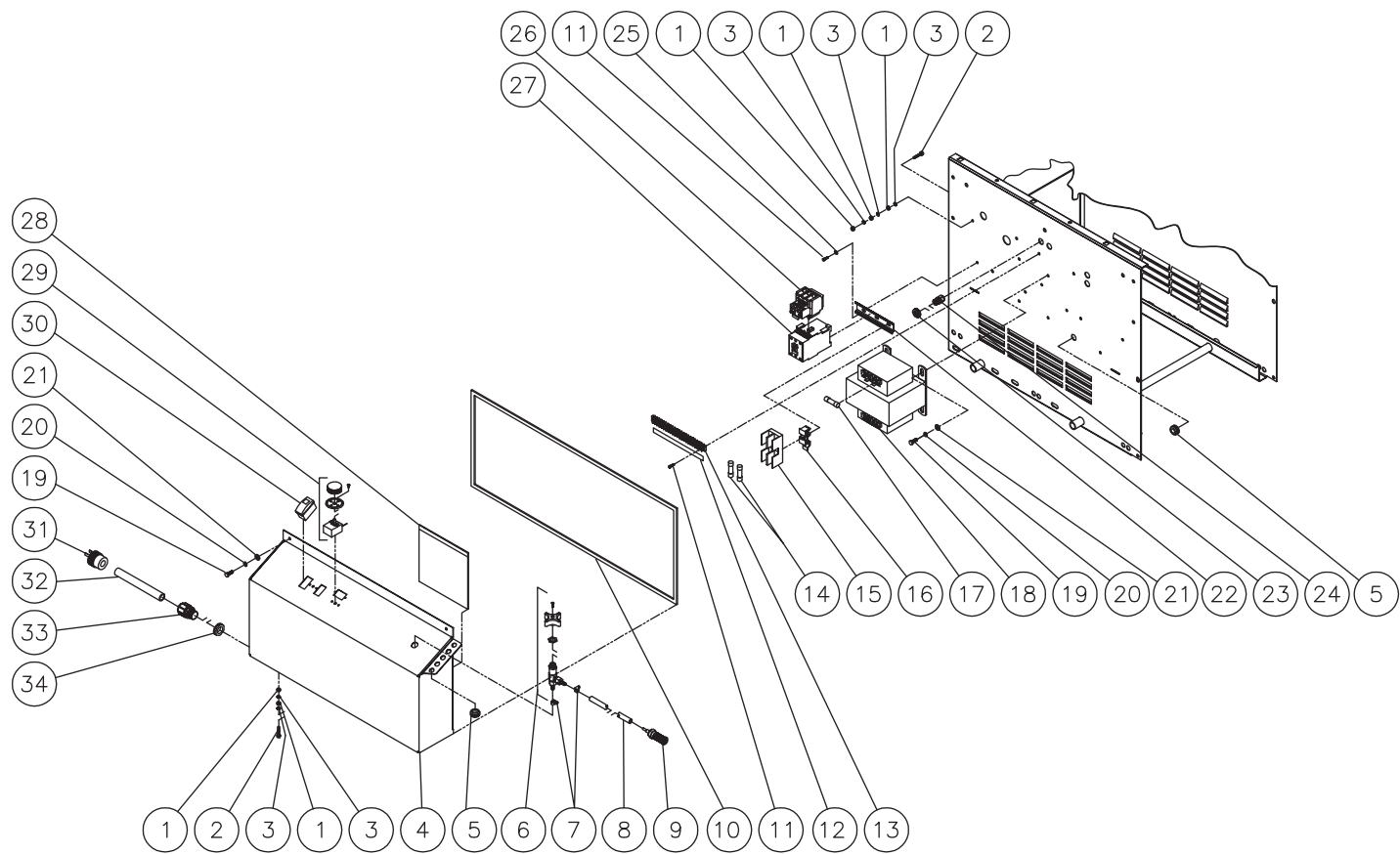
ELECTRICAL BOX FOR HHS-2004/3004/3005-1E3G/A & 1E9G/A



HHS-2004/3004/3005-1E3G/1E9G
ELECTRIC BOX-100405-RZ

ELECTRIC BOX FOR HHS-2004/3004/3005-1E3G/A & 1E9G/A							
REF. #	DESCRIPTION	PART #	QTY.	REF. #	DESCRIPTION	PART #	QTY.
1	Nut	30-6001	5	22	Contactora (HHS-2004)	32-0477	1
2	Bolt	27-8807	2	-	Contactora (HHS-3004 & HHS-3005-1E3G/A)	32-0478	1
3	Washer	28-1009	7	-	Contactora (HHS-3005-1E9G/A)	32-0479	1
4	Electric Box	20-0834A18	1	23	Envelope	41-0184	1
5	Grommet	33-0001	9	24	Adjustable Thermostat	32-0734	1
6	Detergent Valve	22-0226	1	25	Rocker Switch	32-0669	2
7	Hose Clamp	42-0004	2	26	Washer	28-0002	3
8	Hose *(Six Feet Required)	15-0021	1	27	Lockwasher	29-0006	3
9	Detergent Strainer w/Check	19-0056	1	28	Bolt	27-0015	3
10	Gasket	26-0240	1	29	Plug (HHS-2004-1E3G/A)	32-0118	1
11	Screw	27-8835	6	-	Plug (HHS-2004-1E9G/A & HHS-3004 & HHS-3005-1E3G/A)	32-0037	1
12	Decal- Terminal Strip (See 34-9037)	N/A Sep.	1	-	Plug (HHS-3005-1E9G/A)	32-0175	1
13	Terminal Strip	32-0463	1	30	Cord *(Thirty-seven Feet Required) (HHS-2004 & HHS-3004-1E3G/A)	32-0023	1
14	Fuse- 0.5 AMP	32-0467	2	-	Cord *(Thirty-seven Feet Required) (HHS-3004-1E9G/A & HHS-3005)	32-0123	1
15	Fuse- 0.6 AMP	32-0471	1	31	Strain Relief (HHS-2004 & HHS-3004-1E3G/A)	9-0046	1
16	Transformer	32-0313	1	-	Bushing (HHS-3005 & HHS-3004-1E9G/A)	9-0048	1
17	Din Rail *(One Foot Required)	32-0316	1	32	Locknut (HHS-2004 & HHS-3004-1E3G/A)	32-0292	1
18	Locknut	32-0587	2	-	Locknut (HHS-3005 & HHS-3004-1E9G/A)	32-0515	1
19	Strain Relief	32-0586	1		Decal Kit (Inc. 12)	34-9037	
20	Washer	28-0001	2	*Must Order in One Foot Lengths			
21	Overload Relay (HHS-2004)	32-0483	1				
-	Overload Relay (HHS-3004 & HHS-3005-1E3G/A)	32-0484	1				
-	Overload Relay (HHS-3005-1E9G/A)	32-0485	1				

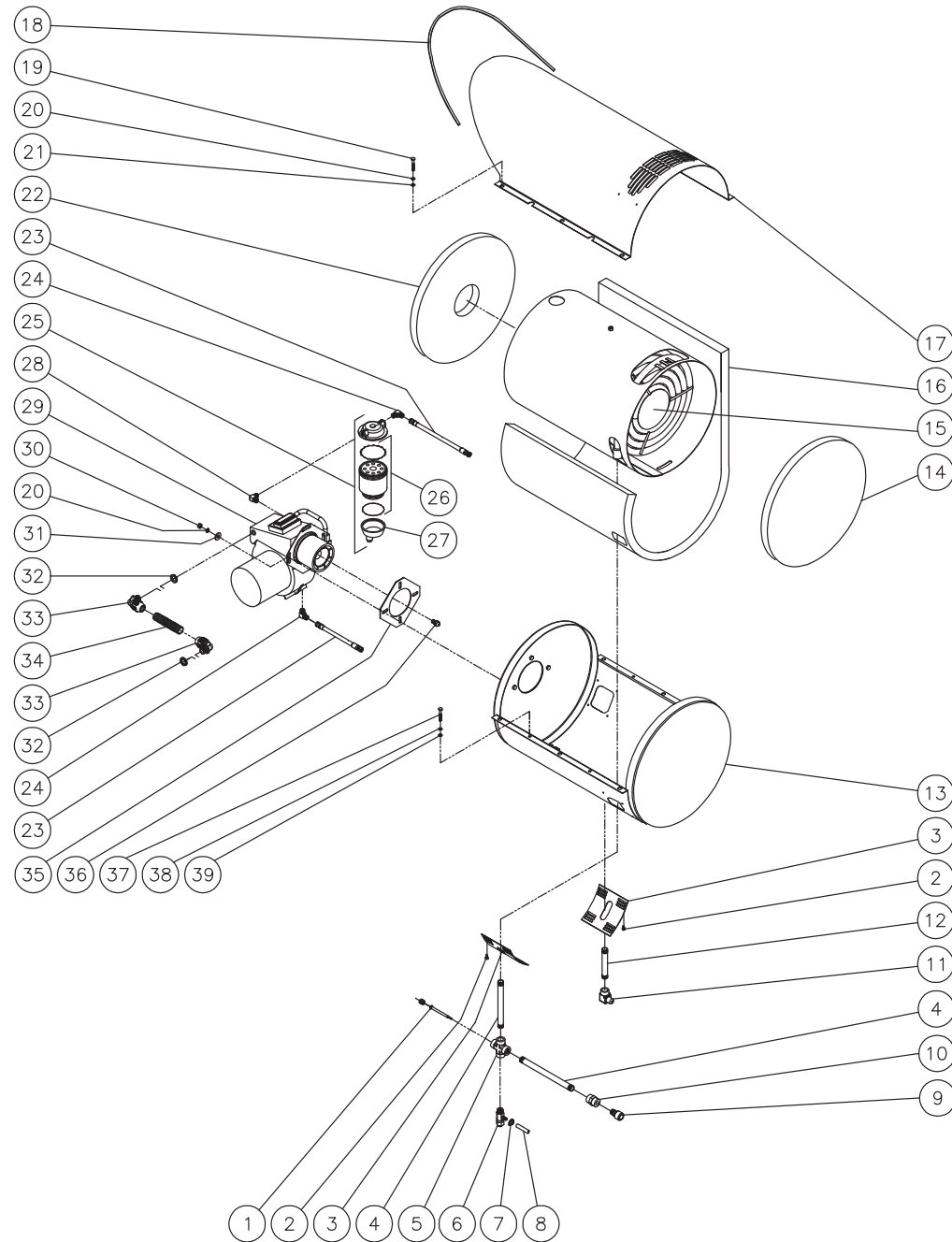
ELECTRICAL BOX FOR HHS-2004/3004/3005-1E4G/A & 1E5G/A



HHS-2004/3004/3005-1E4G/1E5G
ELECTRIC BOX-100405-RZ

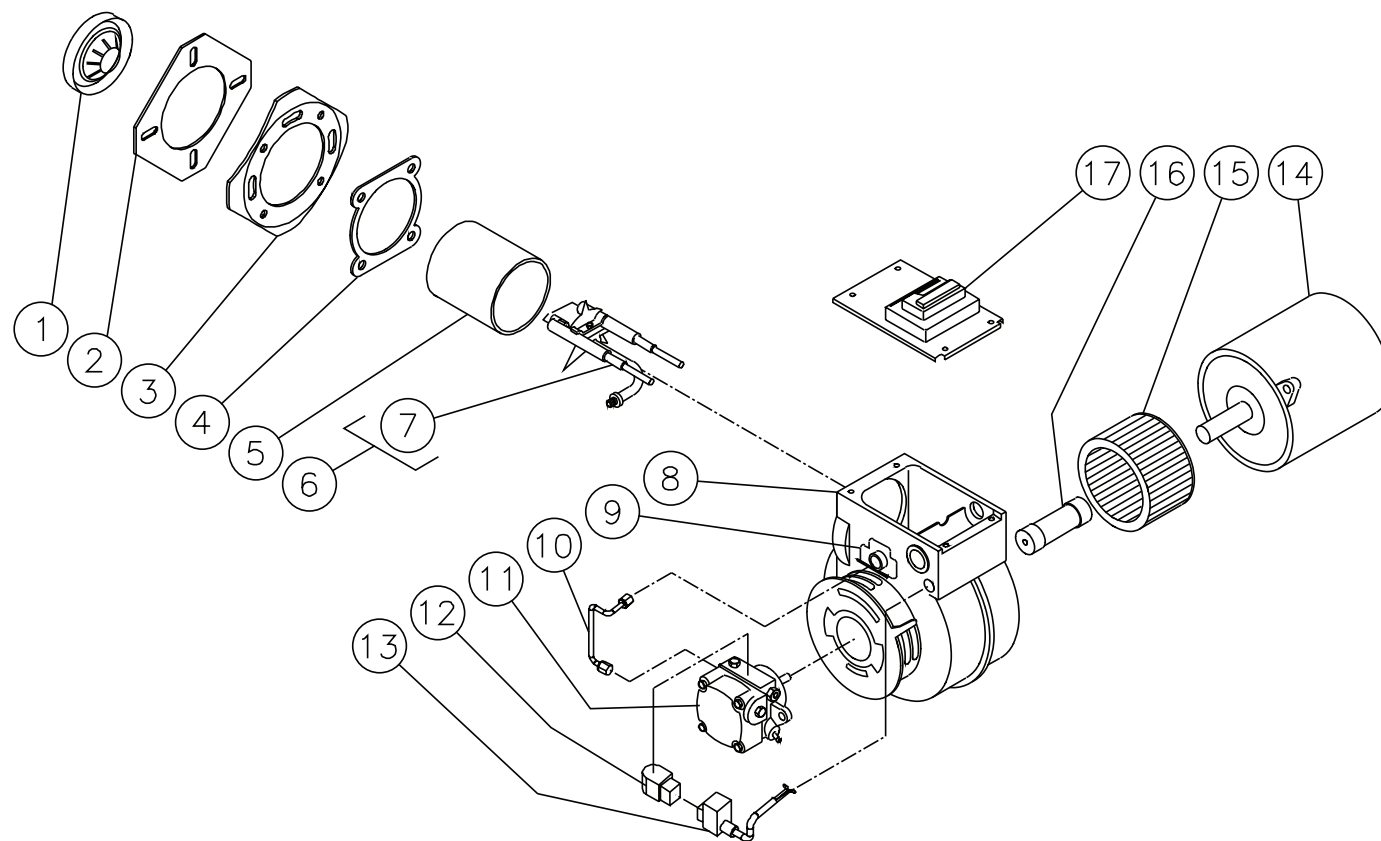
ELECTRIC BOX FOR HHS-2004/3004/3005-1E4G/A & 1E5G/A							
REF. #	DESCRIPTION	PART #	QTY.	REF. #	DESCRIPTION	PART #	QTY.
1	Nut	30-6001	5	19	Bolt	27-0015	7
2	Bolt	27-8807	2	20	Lockwasher	29-0006	7
3	Washer	28-1009	5	21	Washer	28-0002	7
4	Electric Box	20-0824A18	1	22	Din Rail *(One Foot Required)	32-0316	1
5	Grommet	33-0001	9	23	Locknut	32-0587	1
6	Detergent Valve	22-0226	1	24	Strain Relief	32-0586	1
7	Hose Clamp	42-0004	2	25	Washer	28-0001	2
8	Hose *(Six Feet Required)	15-0021	1	26	Overload Relay (HHS-2004-1E4G/A & HHS-3004-1E5G/A)	32-0481	1
9	Detergent Strainer w/Check	19-0056	1	-	Overload Relay (HHS-3004/3005-1E4G/A & HHS-3005-1E5G/A)	32-0482	1
10	Gasket	26-0240	1	27	Contactor	32-0477	1
11	Screw	27-8835	4	28	Envelope	41-0184	1
12	Decal- Terminal Strip (See 34-9037)	N/A Sep.	1	29	Adjustable Thermostat	32-0734	1
13	Terminal Strip	32-0463	1	30	Rocker Switch	32-0669	2
14	Fuse- 4AMP (HHS-2004/3004/3005-1E4G/A)	32-0676	2	31	Plug (HHS-2004/3004/3005-1E4G/A)	32-0117	1
-	Fuse- 2AMP (HHS-3004/3005-1E5G/A)	32-0688	2	-	Plug (HHS-3004/3005-1E5G/A)	32-0695	1
15	Fuse Holder	32-0681	1	32	Cord *(Thirty-seven Feet Required)	32-0023	1
16	Din Rail Mount Adapter	32-0682	2	33	Strain Relief	9-0046	1
17	Fuse- 10AMP	32-0675	1	34	Locknut	32-0292	1
18	Transformer- 460V (HHS-2004/3004/3005-1E4G/A)	32-0678	1		Decal Kit (Inc. 12)	34-9037	
-	Transformer- 575V (HHS-3004/3005-1E5G/A)	32-0677	1	*Must Order in One Foot Lengths			

HEAT EXCHANGER ASSEMBLY



HEAT EXCHANGER ASSEMBLY							
REF. #	DESCRIPTION	PART #	QTY.	REF. #	DESCRIPTION	PART #	QTY.
1	Adjustable Thermostat	32-0734	1	24	Elbow	23-0237	2
2	Screw	27-3062	8	25	Fuel/Water Seperator	19-0070	1
3	Patch Plate	20-0537A18	2	26	Fuel/Water Seperator Strainer	19-0053	1
4	Pipe Nipple	24-0255	1	27	Fuel/Water Seperator Bowl	19-0071	1
5	Cross	24-0241	1	28	Elbow	23-0130	1
6	Pressure Relief Valve (HHS-1002/1003/2004)	22-0308	1	29	Burner (HHS-1002-1E1G/A)	4-0020	1
-	Pressure Relief Valve (HHS-3004/3005)	22-0309	1	-	Burner (HHS-1003-1E1G/A)	4-0019	1
7	Clamp	42-0004	1	-	Burner (HHS-2004/3004/3005-1E2/8/3/9G/A)	4-0018	1
8	Hose Fuel *(Two Feet Required)	15-0008	1	-	Burner (HHS-2004-1E4G/A & HHS-3004/3005-1E4/5G/A)	4-0017	1
9	Quick Connect Plug	17-0007	1	30	Nut	30-0006	3
10	Adapter	24-0243	1	31	Washer	28-0023	3
11	Elbow	24-0240	1	32	Nut	32-0108	2
12	Pipe Nipple	24-0245	1	33	Conduit Elbow	32-0254	2
13	Bottom Wrap Assembly	20-0527A18	1	34	Conduit *(Two Feet Required)	32-0253	1
14	Insulation Dome	33-0346	1	35	Gasket	44-0108	1
15	Coil Assembly	66-0014	1	36	Fuel Nozzle- 1.00 (HHS-1002-1E1G/A)	18-0357	1
16	Insulation Blanket (Replacement Only)	850-0279	1	-	Fuel Nozzle- 1.50 (HHS-1003-1E1G/A)	18-0356	1
17	Top Wrap	21-0129	1	-	Fuel Nozzle- 2.00 (HHS-3004)	18-0091	1
18	Trim Lock *(Three Feet Required)	33-0423	1	-	Fuel Nozzle- 2.25 (HHS-2004)	18-0090	1
19	Bolt	27-0121	6	-	Fuel Nozzle- 2.50 (HHS-3005)	18-0093	1
20	Lockwasher	29-0008	9	37	Bolt	27-0019	4
21	Washer	28-0030	6	38	Lockwasher	29-0006	4
22	Insulation Dome	33-0345	1	39	Washer	28-0002	4
23	Fuel Hose	15-0147	2	*Must Order in One Foot Lengths			

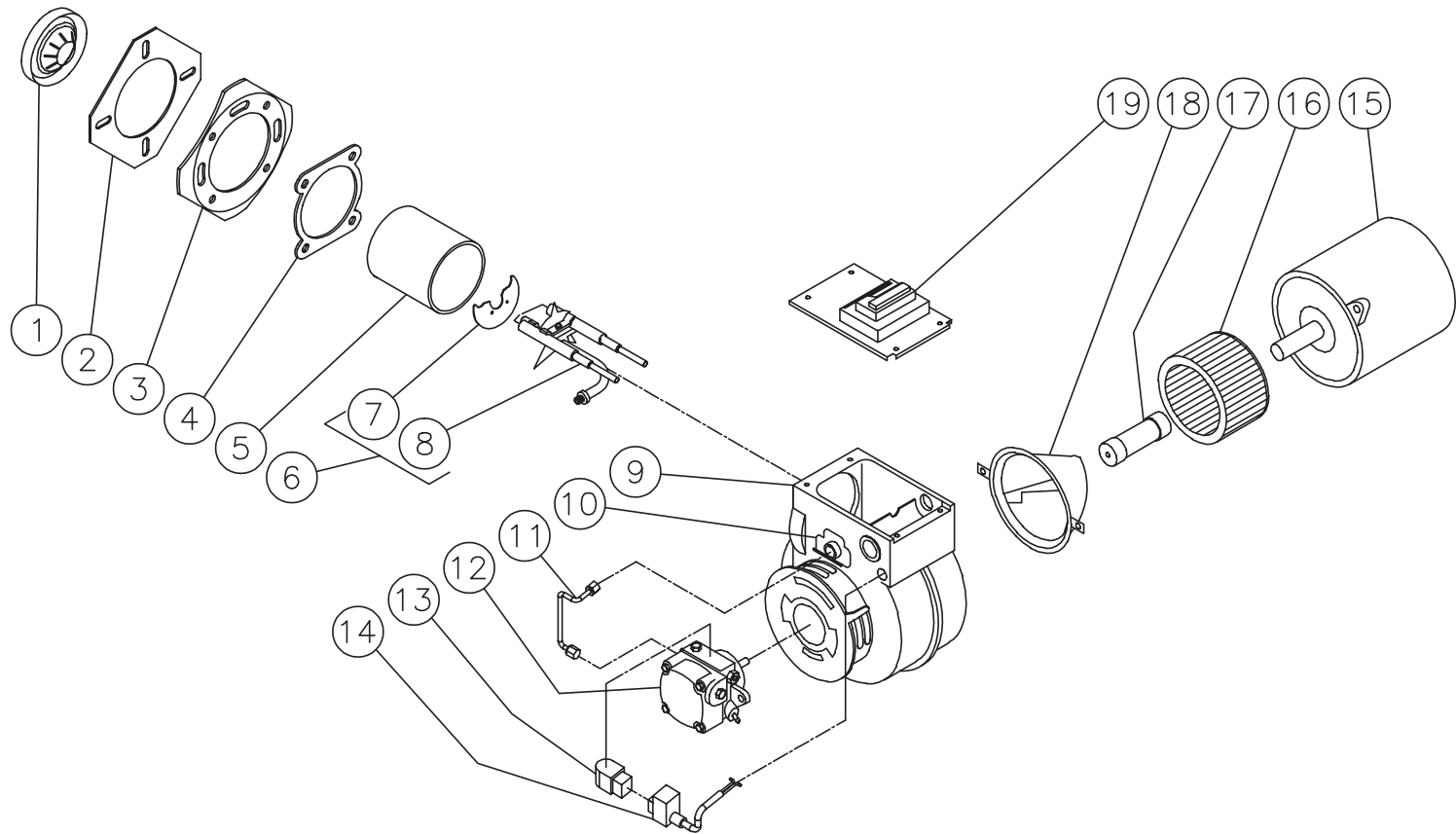
BURNER ASSEMBLY (4-0017 AFTER SERIAL #15008085 & 4-0018 AFTER SERIAL #15008463)



4-0017 & 4-0018-021903-KZ

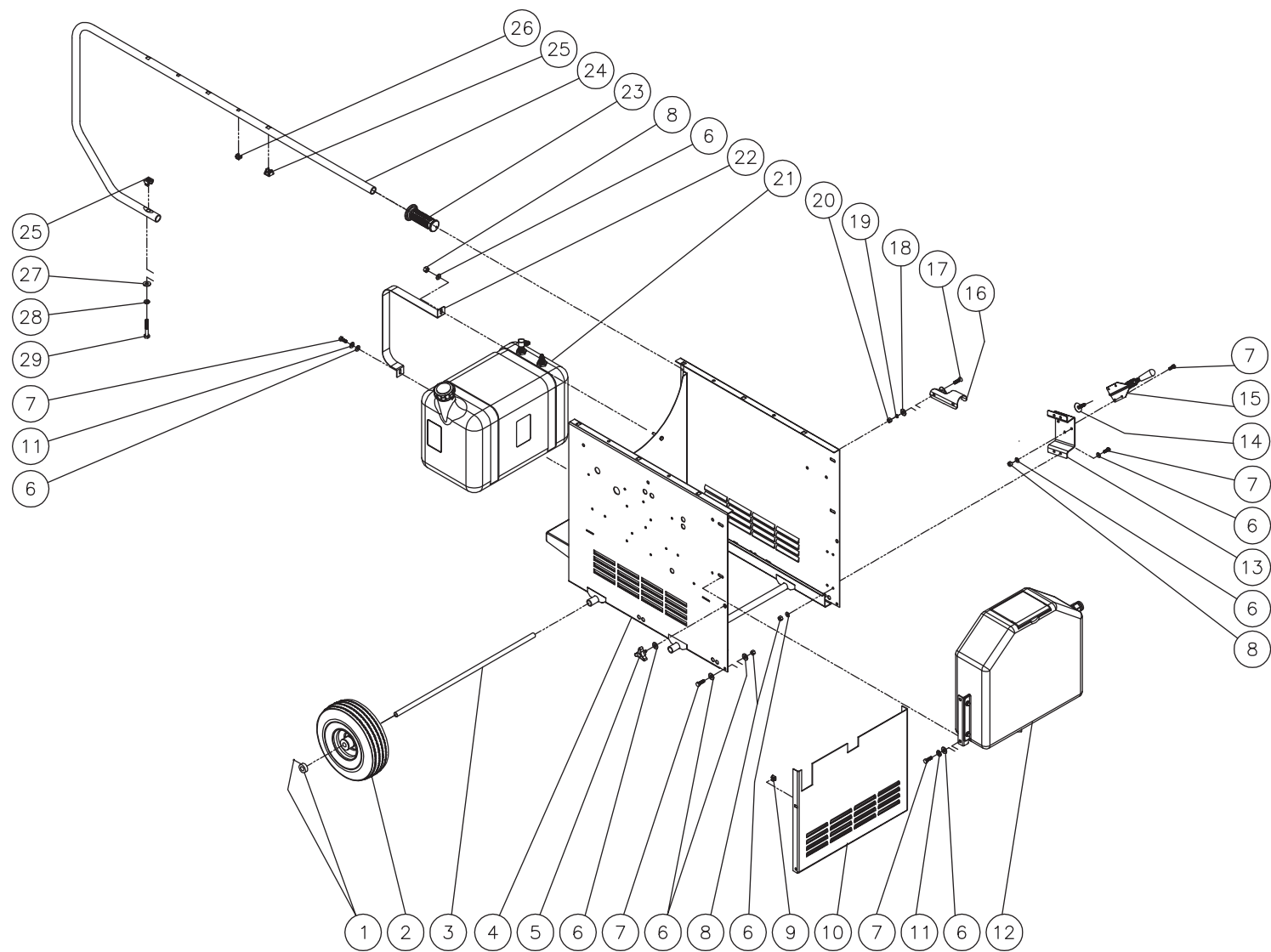
BURNER ASSEMBLY (4-0017 AFTER SERIAL #15008085 & 4-0018 AFTER SERIAL #15008463)								
REF.	DESCRIPTION	PART #	QTY.		REF.	DESCRIPTION	PART #	QTY.
1	Burner Head	44-0011	1		12	Fuel Solenoid	46-1020	1
2	Mounting Gasket	44-0108	1		13	Cord Set	44-0122	1
3	Flange	44-0109	1		14	Motor (4-0017)	2-0068	1
4	Gasket	26-0138	1		-	Motor (4-0018)	2-0067	1
5	Air Tube	44-0110	1		15	Blower Wheel	44-0071	1
6	Nozzle Line Assembly (Inc. 7)	44-0113	1		16	Coupler	44-0014	1
7	Electrode Kit	44-0114	1		17	Ignition Transformer (4-0017)	44-0017	1
8	Burner Housing	44-0033	1		-	Ignition Transformer (4-0018)	44-0015	1
9	Escutcheon Plate	44-0031	1			Complete Burner (Includes 1-17)	4-0017	
10	Fuel Line	44-0026	1			Complete Burner (Includes 1-17)	4-0018	
11	Fuel Pump	3-0236	1					

BURNER ASSEMBLY (4-0019 AFTER SERIAL #15009303 & 4-0020)



BURNER ASSEMBLY (4-0019 AFTER SERIAL #15009303 & 4-0020)									
REF.	DESCRIPTION	PART #	QTY.		REF.	DESCRIPTION	PART #	QTY.	
1	Burner Head (4-0019)	44-0009	1		11	Fuel Line	44-0025	1	
-	Burner Head (4-0020)	44-0107	1		12	Fuel Pump	3-0236	1	
2	Mounting Gasket	44-0108	1		13	Fuel Solenoid	46-1020	1	
3	Flange	44-0109	1		14	Cord Set	44-0122	1	
4	Gasket	26-0138	1		15	Motor	2-0033	1	
5	Air Tube	44-0110	1		16	Blower Wheel	44-0006	1	
6	Nozzle Line Assembly (Inc. 7-8)	44-0111	1		17	Coupler	44-0013	1	
7	Static Plate	44-0027	1		18	Air Guide	44-0051	1	
8	Electrode Kit	44-0112	1		19	Ignition Transformer	44-0016	1	
9	Burner Housing	44-0034	1			Complete Burner (Includes 1-19)	4-0019		
10	Escutcheon Plate	44-0031	1			Complete Burner (Includes 1-19)	4-0020		

CHASSIS ASSEMBLY

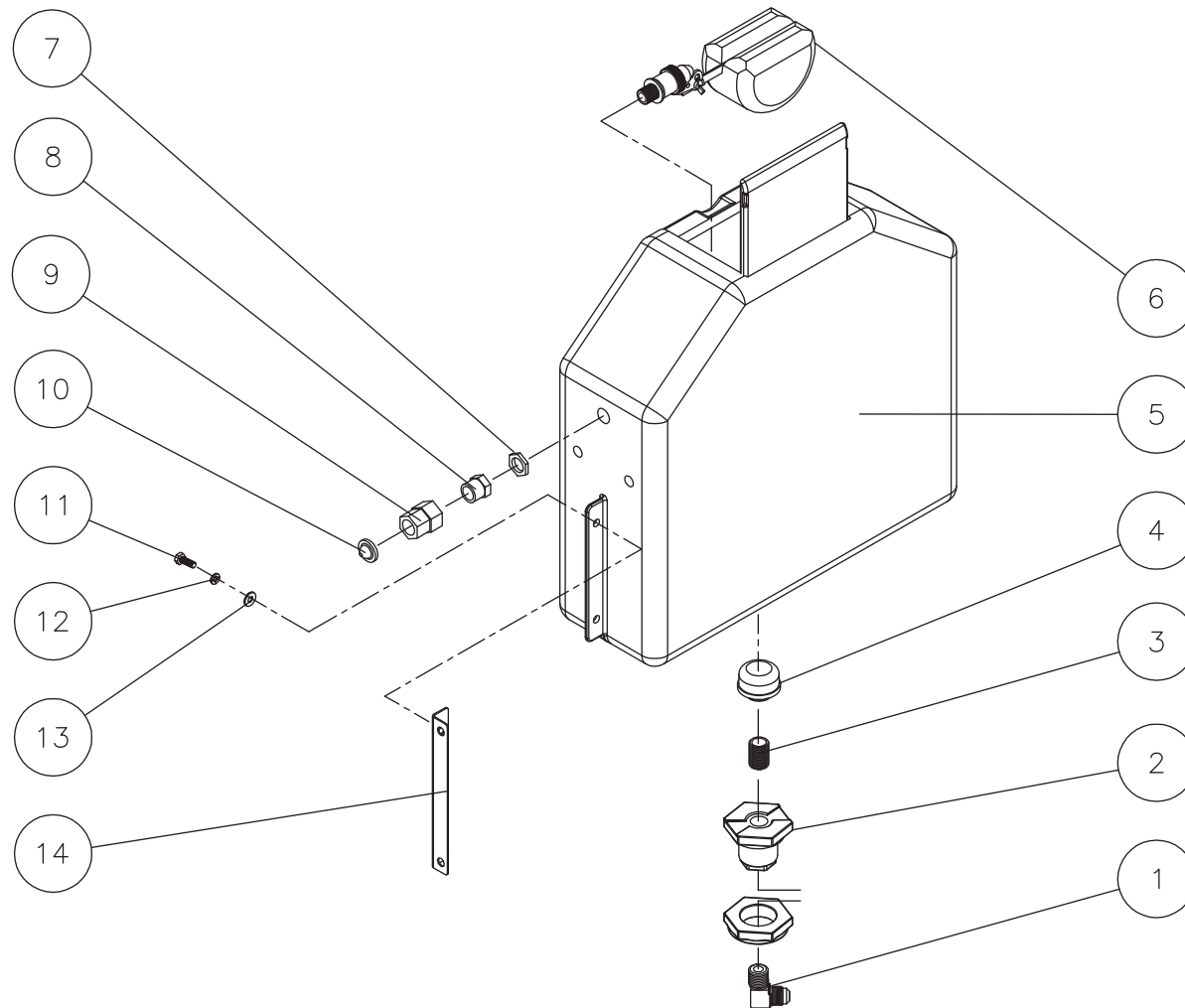


HHS-SERIES-100405-RZ

CHASSIS ASSEMBLY

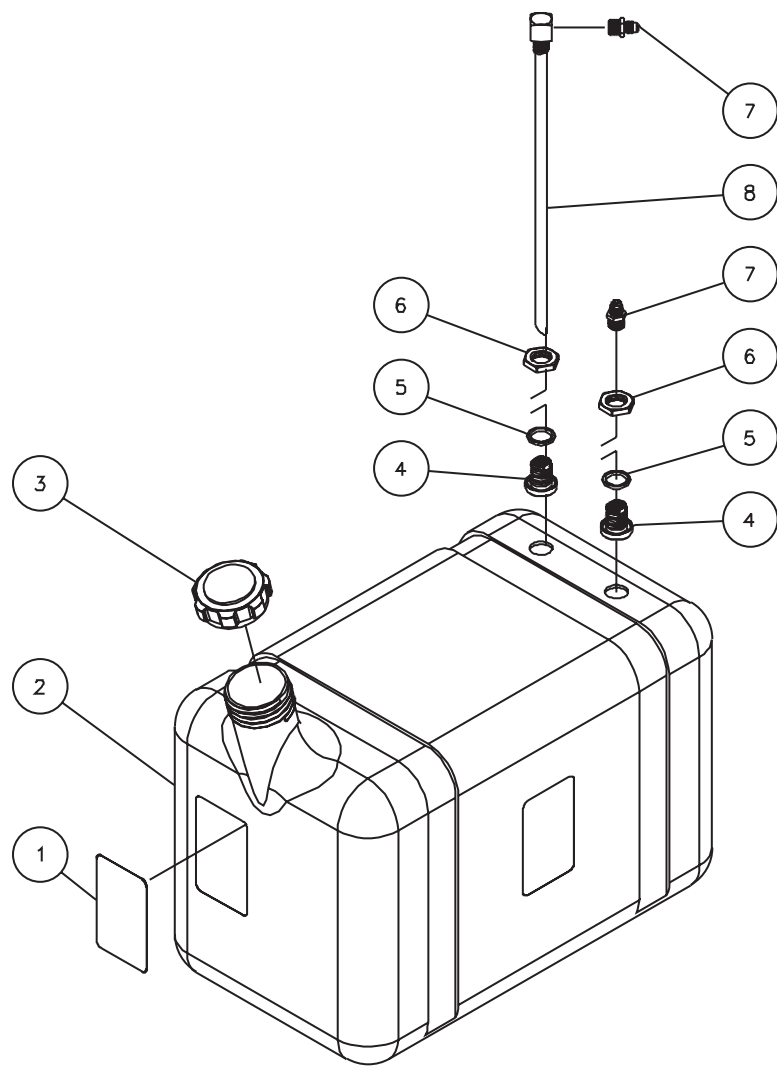
REF. #	DESCRIPTION	PART #	QTY.		REF. #	DESCRIPTION	PART #	QTY.
1	Collar w/ Set Screw	33-0351	4		16	Wand Holder	20-0545A18	1
2	Wheel	14-0006	4		17	Bolt	27-0418	2
3	Axle	20-0524	2		18	Flatwasher	28-0003	2
4	Chassis Assembly	5-0230A18	1		19	Lockwasher	29-0007	2
5	3-Prong Knob	7-0168	2		20	Nut	30-0005	2
6	Flatwasher	28-0002	26		21	Fuel Tank Assembly	850-0303	1
7	Bolt	27-0015	16		22	Fuel Tank Strap	20-0598A18	2
8	Hex Nut	30-0155	12		23	Handle Grip	7-0167	2
9	Clip Nut	30-6026	2		24	Handle	7-0166A18	2
10	Access Door	20-0525A18	1		25	Clip Nut	30-6025	8
11	Lockwasher	29-0006	6		26	Clip Nut	30-6027	4
12	Fuel Tank Assembly (See Exploded Drawing)	N/A Sep.	1		27	Washer	28-0023	2
13	Brake Bracket	20-0825A18	1		28	Lockwasher	29-0008	2
14	Elevator Bolt	27-9550	1		29	Bolt	27-0121	2
15	Push/Pull Brake	33-0400	1					

FLOAT TANK ASSEMBLY



FLOAT TANK ASSEMBLY			
REF. #	DESCRIPTION	PART #	QTY.
1	Elbow	23-0389	1
2	Bulkhead	55-0886	1
3	Close Nipple (HHS-2004/3005)	23-0019	1
-	Close Nipple (HHS-1003)	23-0403	1
-	Close Nipple (HHS-1002)	23-0402	1
-	Close Nipple (HHS-3004)	23-0392	1
4	Water Tank Strainer	19-0203	1
5	Float Tank	12-0124	1
6	Float Valve Assembly	850-0238	1
7	Locknut w/ Float Valve	23-0138	1
8	Bushing	23-0016	1
9	Garden Hose Adapter	23-0001	1
10	Inlet Strainer Gasket	19-0001	1
11	Bolt	27-0015	4
12	Lockwasher	29-0006	4
13	Flatwasher	28-0002	4
14	Float Tank Bracket	20-0599	2

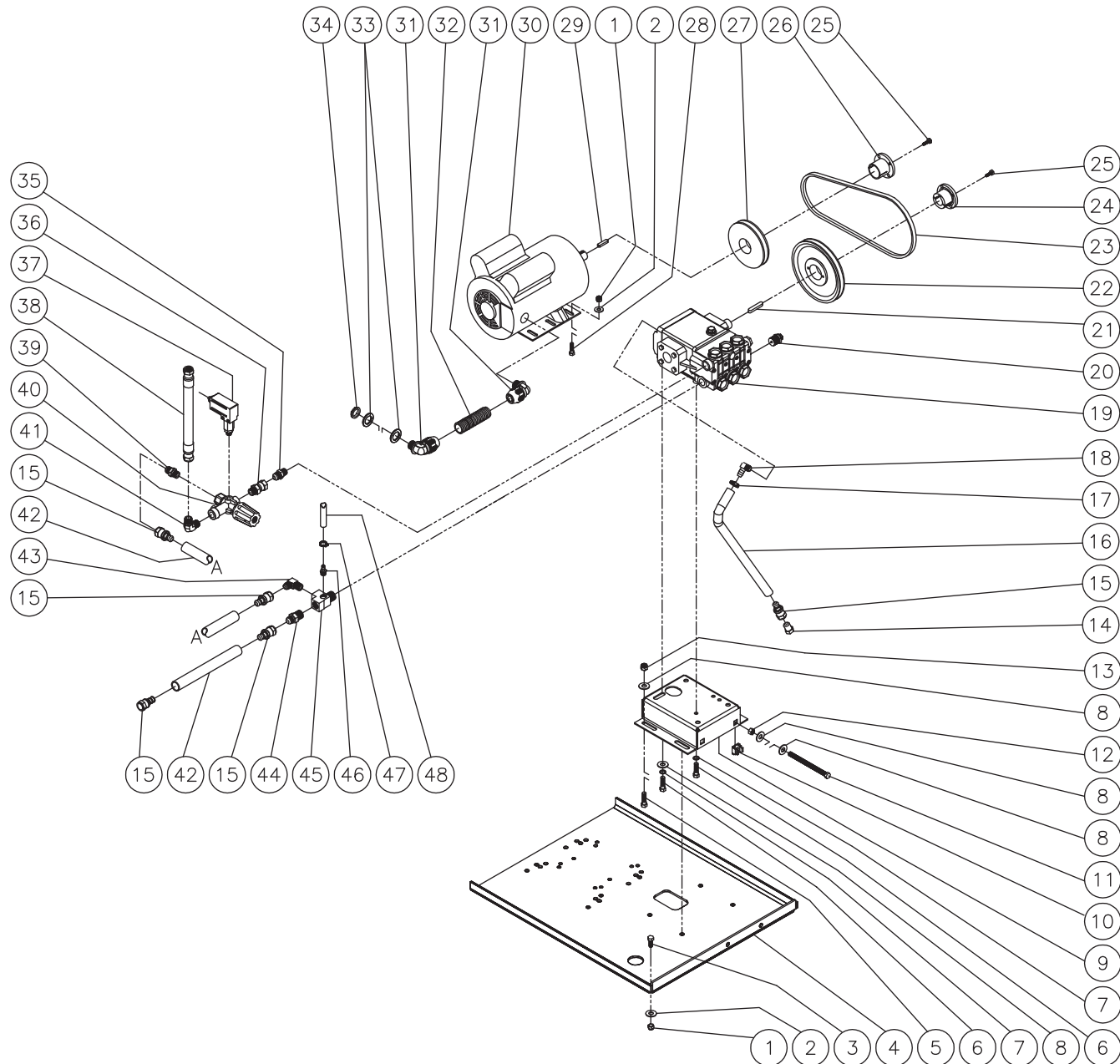
FUEL TANK ASSEMBLY (850-0303)



850-0303-34-9037-032101-BAR

FUEL TANK ASSEMBLY (850-0303)			
REF. #	DESCRIPTION	PART #	QTY.
1	Decal- Caution: Risk of Fire (E/S) (See 34-9008)	N/A Sep.	1
2	Fuel Tank	12-0126	1
3	Vented Fuel Cap	12-0033	1
4	Bulkhead Fitting	23-0408	2
5	O-ring	25-0427	2
6	Nut	23-0409	2
7	Flare Fitting	23-0247	2
8	Fuel Pick-up	33-0352	1
	Safety Decal Kit (Inc. 1)	34-9037	

MOTOR/PUMP ASSEMBLY FOR HHS-1002-1E1G



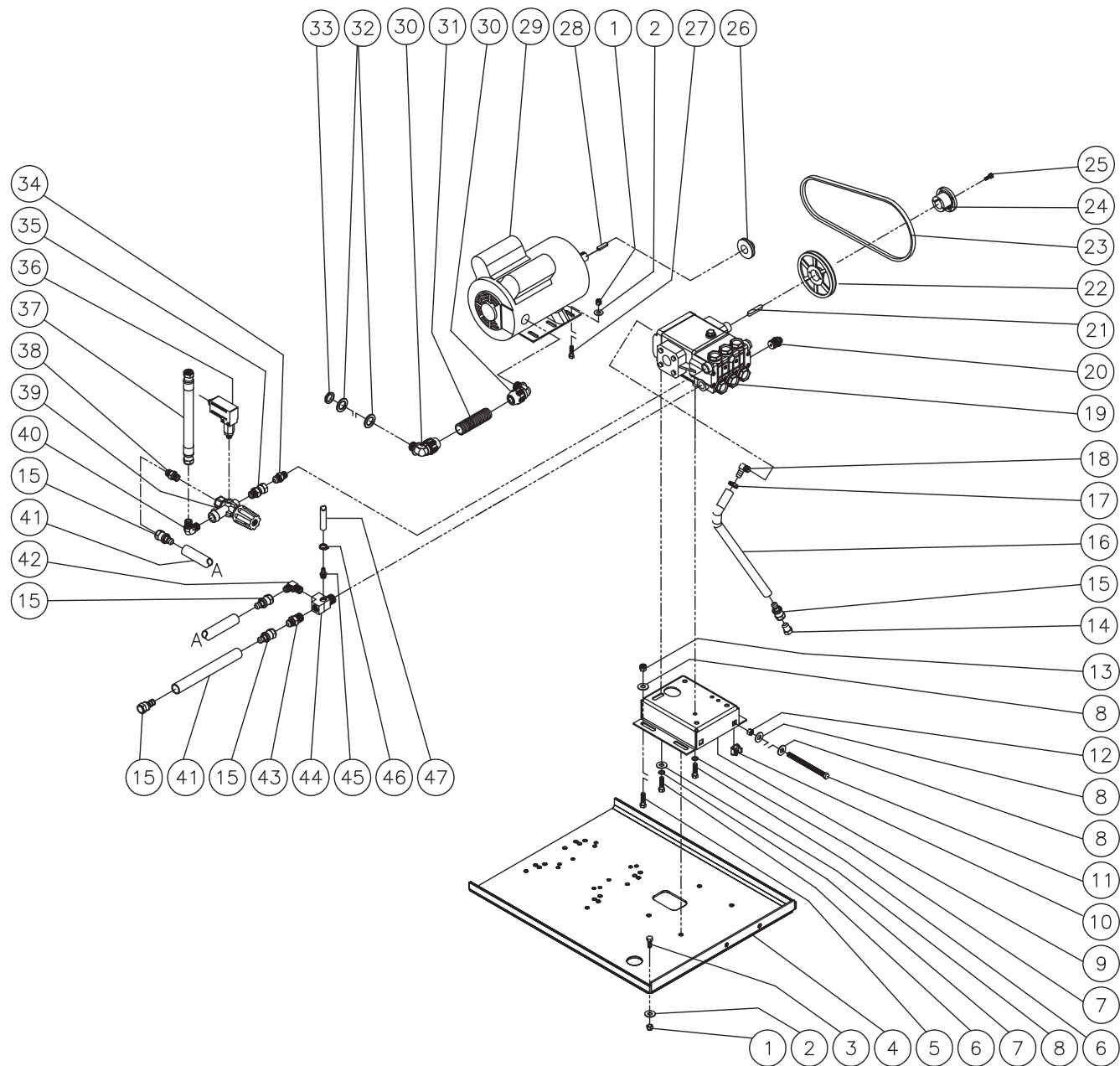
MOTOR/PUMP ASSEMBLY FOR HHS-1002-1E1G								
REF. #	DESCRIPTION	PART #	QTY.		REF. #	DESCRIPTION	PART #	QTY.
1	Locknut	30-0157	5		25	Bolt w/Bushing	27-0015	4
2	Washer	28-0003	5		26	Bushing	9-0037	1
3	Bolt	27-0066	1		27	Sheave	10-0080	1
4	Motor/Pump Baseplate	5-0152A18	1		28	Bolt	27-0067	4
5	Bolt	27-0118	4		29	Motor Key	43-0078	1
6	Bolt w/Pump	27-8471	4		30	Motor Assembly	2-0118	1
7	Lockwasher w/Pump	29-0055	4		31	Conduit Elbow	32-0254	2
8	Flatwasher	28-0023	9		32	Conduit Flex *(Three Feet Required)	32-0253	1
9	Pump Hat	5-0153A18	1		33	Flatwasher	28-0051	2
10	Clip Nut	30-6025	2		34	Locknut w/Conduit Elbow	32-0108	1
11	Bolt	27-0133	2		35	Nipple	24-0002	1
12	Hex Nut	30-0006	2		36	Swivel	24-0037	1
13	Hex Nut	30-0159	4		37	Pressure Switch	22-0171	1
14	Plug	23-0411	1		38	High Pressure Hose Assembly	15-0221	1
15	Hose Barb	23-0360	5		39	Nipple	23-0370	1
16	Hose *(Two Feet Required)	15-0007	1		40	Unloader Assembly	850-0252	1
17	Clamp Worm	42-0011	1		41	Elbow	24-0092	1
18	Elbow	23-0119	1		42	Hose *(Three Feet Required)	15-0200	1
19	Pump	3-0005	1		43	Elbow	23-0389	1
20	Thermal Relief Valve	22-0005	1		44	Nipple	23-0361	1
21	Pump Key	43-0048	1		45	Street Tee	23-0388	1
22	Sheave	10-0103	1		46	Hose Barb	23-0051	1
23	Belt	11-0023	1		47	Clamp Worm	42-0004	1
24	Bushing	9-0017	1		48	Hose *(Three Feet Required)	15-0021	1
*Must Order in One Foot Lengths.								

HHS-1002A MOTOR PUMP ASSY-100405-RZ



MOTOR/PUMP ASSEMBLY FOR HHS-1002-1E1A								
REF. #	DESCRIPTION	PART #	QTY.		REF. #	DESCRIPTION	PART #	QTY.
1	Locknut	30-0157	5		25	Bolt w/Bushing	27-0015	4
2	Washer	28-0003	5		26	Bushing	9-0037	1
3	Bolt	27-0066	1		27	Sheave	10-0049	1
4	Motor/Pump Baseplate	5-0152A18	1		28	Bolt	27-0067	4
5	Bolt	27-0118	4		29	Motor Key	43-0078	1
6	Bolt w/Pump	27-8884	4		30	Motor Assembly	2-0118	1
7	Lockwasher w/Pump	29-0054	4		31	Conduit Elbow	32-0254	2
8	Flatwasher	28-0023	9		32	Conduit Flex *(Three Feet Required)	32-0253	1
9	Pump Hat	5-0153A18	1		33	Flatwasher	28-0051	2
10	Clip Nut	30-6025	2		34	Locknut w/Conduit Elbow	32-0108	1
11	Bolt	27-0133	2		35	Nipple	24-0002	1
12	Hex Nut	30-0006	2		36	Swivel	24-0037	1
13	Hex Nut	30-0159	4		37	Pressure Switch	22-0171	1
14	Plug	23-0411	1		38	High Pressure Hose Assembly	15-0221	1
15	Hose Barb	23-0360	5		39	Nipple	23-0370	1
16	Hose *(Two Feet Required)	15-0007	1		40	Unloader Assembly	850-0252	1
17	Clamp Worm	42-0011	1		41	Elbow	24-0092	1
18	Elbow	23-0119	1		42	Hose *(Three Feet Required)	15-0200	1
19	Pump	3-0210	1		43	Elbow	23-0389	1
20	Thermal Relief Valve	22-0005	1		44	Nipple	23-0361	1
21	Pump Key	43-0091	1		45	Street Tee	23-0388	1
22	Sheave	10-0103	1		46	Hose Barb	23-0051	1
23	Belt	11-0023	1		47	Clamp Worm	42-0004	1
24	Bushing	9-0017	1		48	Hose *(Three Feet Required)	15-0021	1
*Must Order in One Foot Lengths.								

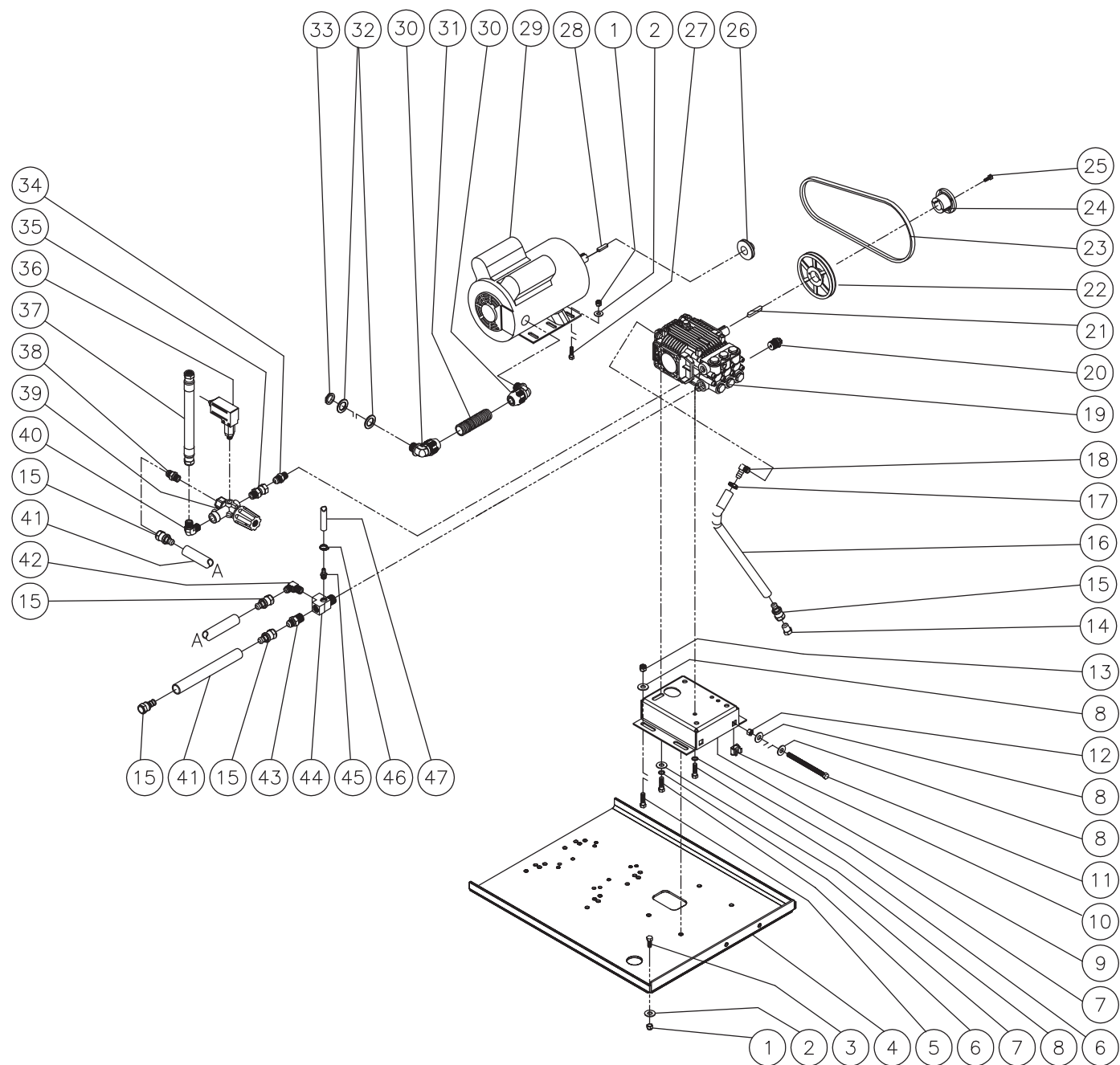
MOTOR/PUMP ASSEMBLY FOR HHS-1003-1E1G



HHS-1003-1E1G MOTOR PUMP ASSY-100405-RZ

MOTOR/PUMP ASSEMBLY FOR HHS-1003-1E1G							
REF. #	DESCRIPTION	PART #	QTY.	REF. #	DESCRIPTION	PART #	QTY.
1	Locknut	30-0157	5	25	Bolt w/Bushing	27-0015	4
2	Washer	28-0003	5	26	Sheave	10-0111	1
3	Bolt	27-0066	1	27	Bolt	27-0067	4
4	Motor/Pump Baseplate	5-0152A18	1	28	Motor Key	43-0078	1
5	Bolt	27-0118	4	29	Motor Assembly	2-0120	1
6	Bolt w/Pump	27-8471	4	30	Conduit Elbow	32-0254	2
7	Lockwasher w/Pump	29-0055	4	31	Conduit Flex *(Three Feet Required)	32-0253	1
8	Flatwasher	28-0023	9	32	Flatwasher	28-0051	2
9	Pump Hat	5-0153A18	1	33	Locknut w/Conduit Elbow	32-0108	1
10	Clip Nut	30-6025	2	34	Nipple	24-0002	1
11	Bolt	27-0133	2	35	Swivel	24-0037	1
12	Hex Nut	30-0006	2	36	Pressure Switch	22-0171	1
13	Hex Nut	30-0159	4	37	High Pressure Hose Assembly	15-0221	1
14	Plug	23-0411	1	38	Nipple	23-0370	1
15	Hose Barb	23-0360	5	39	Unloader Assembly	850-0252	1
16	Hose *(Two Feet Required)	15-0007	1	40	Elbow	24-0092	1
17	Clamp Worm	42-0011	1	41	Hose *(Three Feet Required)	15-0200	1
18	Elbow	23-0119	1	42	Elbow	23-0389	1
19	Pump	3-0005	1	43	Nipple	23-0361	1
20	Thermal Relief Valve	22-0005	1	44	Street Tee	23-0388	1
21	Pump Key	43-0048	1	45	Hose Barb	23-0051	1
22	Sheave	10-0066	1	46	Clamp Worm	42-0004	1
23	Belt	11-0023	1	47	Hose *(Three Feet Required)	15-0021	1
24	Bushing	9-0017	1	*Must Order in One Foot Lengths.			

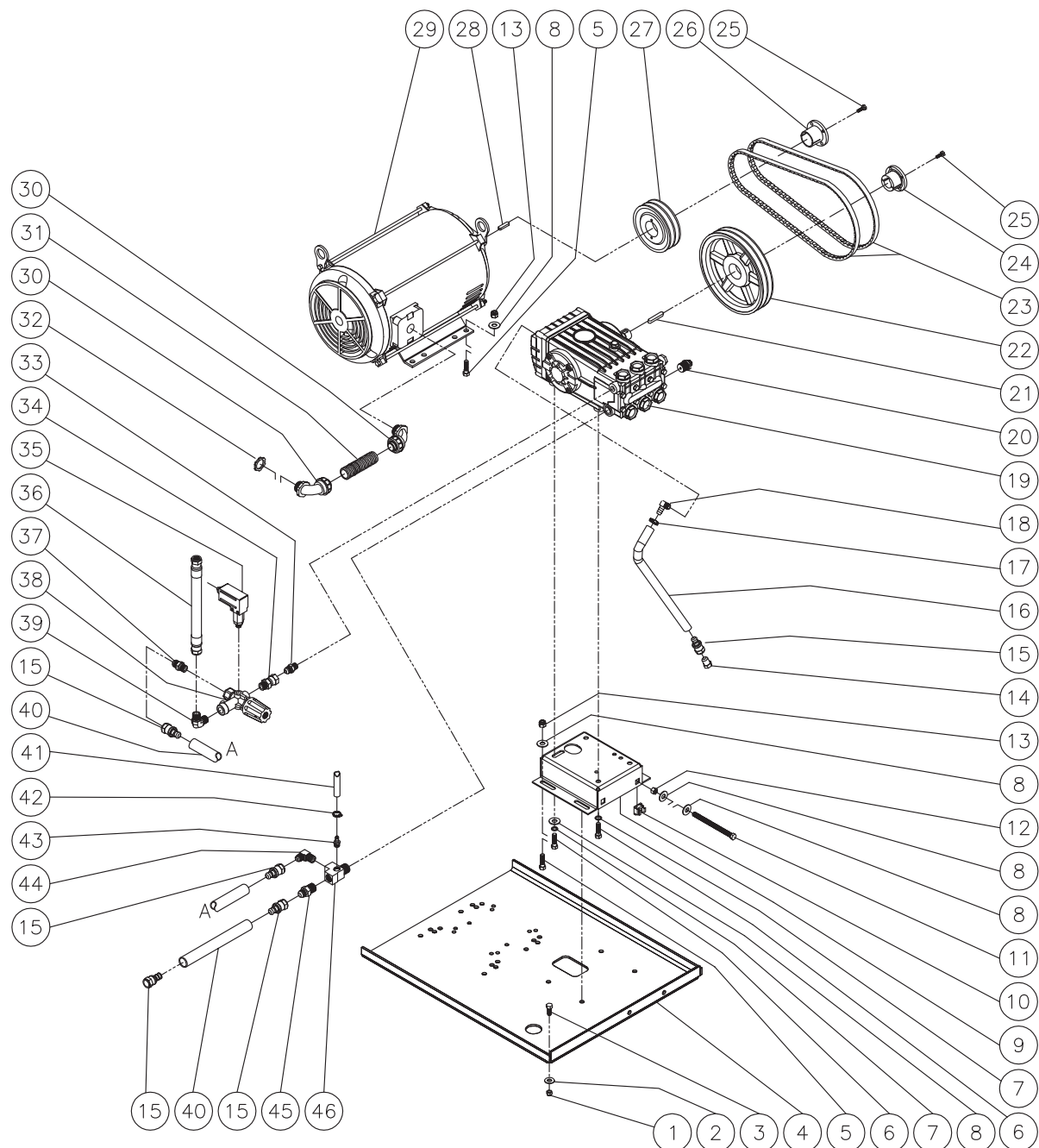
MOTOR/PUMP ASSEMBLY FOR HHS-1003-1E1A



HHS-1003-1E1A MOTOR PUMP ASSY-100405-RZ

MOTOR/PUMP ASSEMBLY FOR HHS-1003-1E1A							
REF. #	DESCRIPTION	PART #	QTY.	REF. #	DESCRIPTION	PART #	QTY.
1	Locknut	30-0157	5	25	Bolt w/Bushing	27-0015	4
2	Washer	28-0003	5	26	Sheave	10-0110	1
3	Bolt	27-0066	1	27	Bolt	27-0067	4
4	Motor/Pump Baseplate	5-0152A18	1	28	Motor Key	43-0078	1
5	Bolt	27-0118	4	29	Motor Assembly	2-0120	1
6	Bolt w/Pump	27-8884	4	30	Conduit Elbow	32-0254	2
7	Lockwasher w/Pump	29-0054	4	31	Conduit Flex *(Three Feet Required)	32-0253	1
8	Flatwasher	28-0023	9	32	Flatwasher	28-0051	2
9	Pump Hat	5-0153A18	1	33	Locknut w/Conduit Elbow	32-0108	1
10	Clip Nut	30-6025	2	34	Nipple	24-0002	1
11	Bolt	27-0133	2	35	Swivel	24-0037	1
12	Hex Nut	30-0006	2	36	Pressure Switch	22-0171	1
13	Hex Nut	30-0159	4	37	High Pressure Hose Assembly	15-0221	1
14	Plug	23-0411	1	38	Nipple	23-0370	1
15	Hose Barb	23-0360	5	39	Unloader Assembly	850-0252	1
16	Hose *(Two Feet Required)	15-0007	1	40	Elbow	24-0092	1
17	Clamp Worm	42-0011	1	41	Hose *(Three Feet Required)	15-0200	1
18	Elbow	23-0119	1	42	Elbow	23-0389	1
19	Pump	3-0210	1	43	Nipple	23-0361	1
20	Thermal Relief Valve	22-0005	1	44	Street Tee	23-0388	1
21	Pump Key	43-0048	1	45	Hose Barb	23-0051	1
22	Sheave	10-0066	1	46	Clamp Worm	42-0004	1
23	Belt	11-0023	1	47	Hose *(Three Feet Required)	15-0021	1
24	Bushing	9-0017	1	*Must Order in One Foot Lengths.			

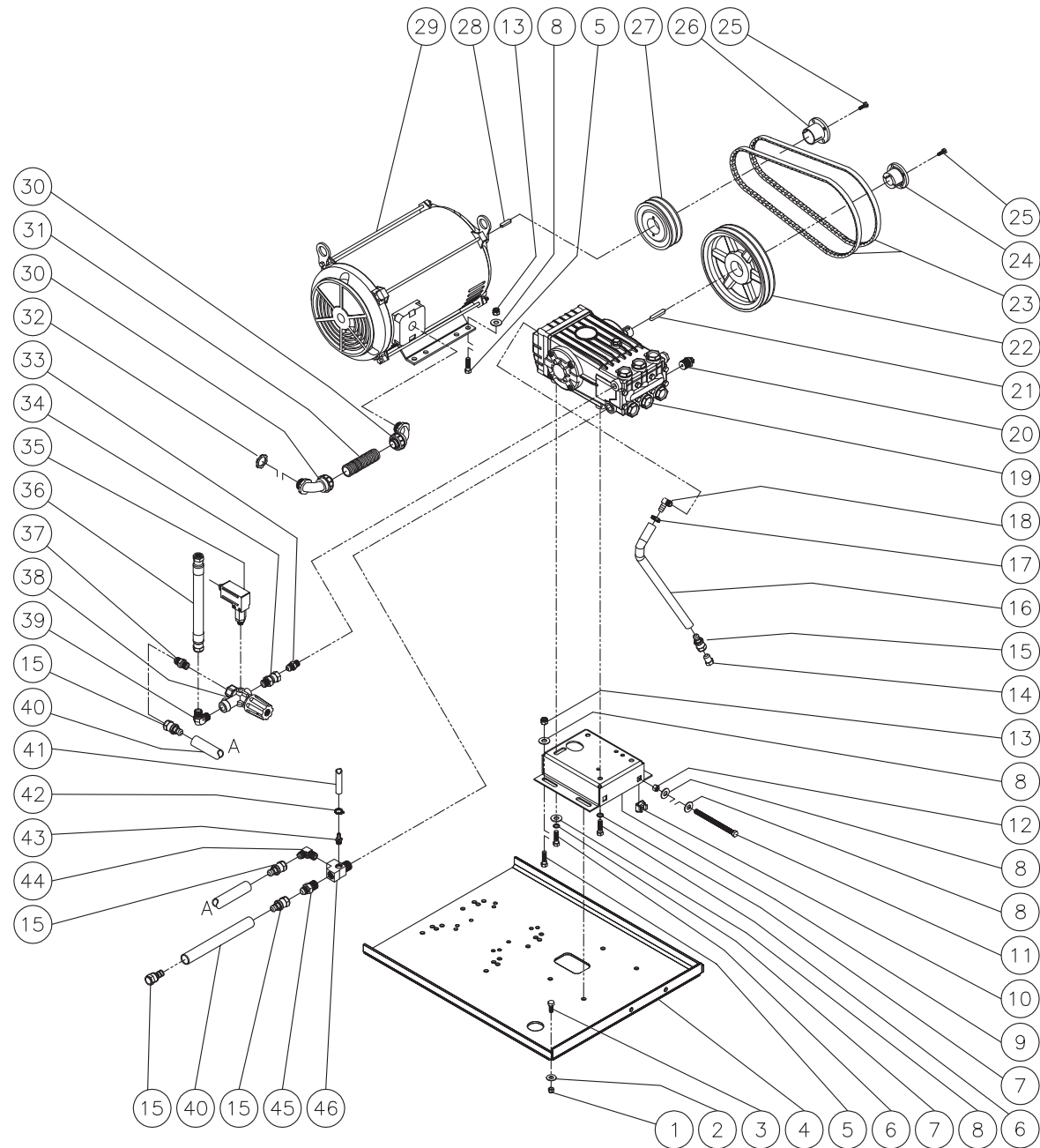
MOTOR/PUMP ASSEMBLY FOR HHS-2004/3004/3005G



HHS-2004/3004/3005G MOTOR PUMP ASSY-031005-RZ

MOTOR/PUMP ASSEMBLY FOR HHS-2004/3004/3005G											
REF. #	DESCRIPTION	PART #	QTY.	REF. #	DESCRIPTION	PART #	QTY.	REF. #	DESCRIPTION	PART #	QTY.
1	Nylock	30-0157	1	23	Belt (HHS-2004)	11-0008	2	29	Motor- 10HP (HHS-3005-1E8G)	2-0130	1
2	Flatwasher	28-0003	1	-	Belt (HHS-3004)	11-0057	2	-	Motor- 10HP (HHS-3005-1E9G)	2-0131	1
3	Bolt	27-0066	1	-	Belt (HHS-3005)	11-0005	2	-	Motor- 10HP (HHS-3005-1E2G)	2-0132	1
4	Baseplate	5-0152A18	1	24	Bushing	9-0017	1	30	Conduit Elbow	32-0487	2
5	Bolt	27-0118	8	25	Bolt w/ Bushing	27-0015	4	31	Conduit Flex *(Three Feet Required)	32-0486	1
6	Bolt w/ Pump	27-8471	4	26	Bushing (HHS-2004)	9-0010	1	32	Locknut	32-0292	1
7	Lockwasher w/ Pump	29-0055	4	-	Bushing (HHS-3004/3005)	9-0008	1	33	Nipple	24-0002	1
8	Flatwasher	28-0023	13	27	Sheave (HHS-2004)	10-0036	1	34	Swivel	24-0037	1
9	Pump Hat	5-0153A18	1	-	Sheave (HHS-3004)	10-0041	1	35	Pressure Switch	22-0171	1
10	Clip Nut	30-6025	2	-	Sheave (HHS-3005)	10-0104	1	36	High Pressure Hose Assembly	15-0221	1
11	Bolt	27-0133	2	28	Motor Key	43-0078	1	37	Nipple	23-0370	1
12	Hex Nut	30-0006	2	29	Motor- 6HP (HHS-2004-1E2G)	2-0107	1	38	Unloader Assembly	850-0252	1
13	Nylock Hex Nut	30-0159	8	-	Motor- 6HP (HHS-2004-1E3G/4G)	2-0108	1	39	Elbow	24-0092	1
14	Plug	23-0411	1	-	Motor- 8HP (HHS-3004-1E2G)	2-0109	1	40	Hose *(Three Feet Required)	15-0200	1
15	Hose Barb	23-0360	5	-	Motor- 8HP (HHS-3004-1E3G/4G)	2-0110	1	41	Hose *(Three Feet Required)	15-0021	1
16	Hose	15-0007	1	-	Motor- 8HP (HHS-3004-1E5G)	2-0111	1	42	Clamp Worm	42-0004	1
17	Clamp Worm	42-0011	1	-	Motor- 10HP (HHS-3005-1E3G/4G)	2-0112	1	43	Hose Barb	23-0051	1
18	Elbow	23-0119	1	-	Motor- 10HP (HHS-3005-1E5G)	2-0113	1	44	Elbow	23-0389	1
19	Pump	3-0202	1	-	Motor- 6HP (HHS-2004-1E8G)	2-0124	1	45	Nipple	23-0361	1
20	Thermal Relief Valve	22-0005	1	-	Motor- 8HP (HHS-3004-1E8G)	2-0125	1	46	Street Tee	23-0388	1
21	Pump Key	43-0048	1	-	Motor- 6HP (HHS-2004-1E9G)	2-0127	1	*Must Order in One Foot Lengths.			
22	Sheave	10-0007	1	-	Motor- 8HP (HHS-3004-1E9G)	2-0129	1				

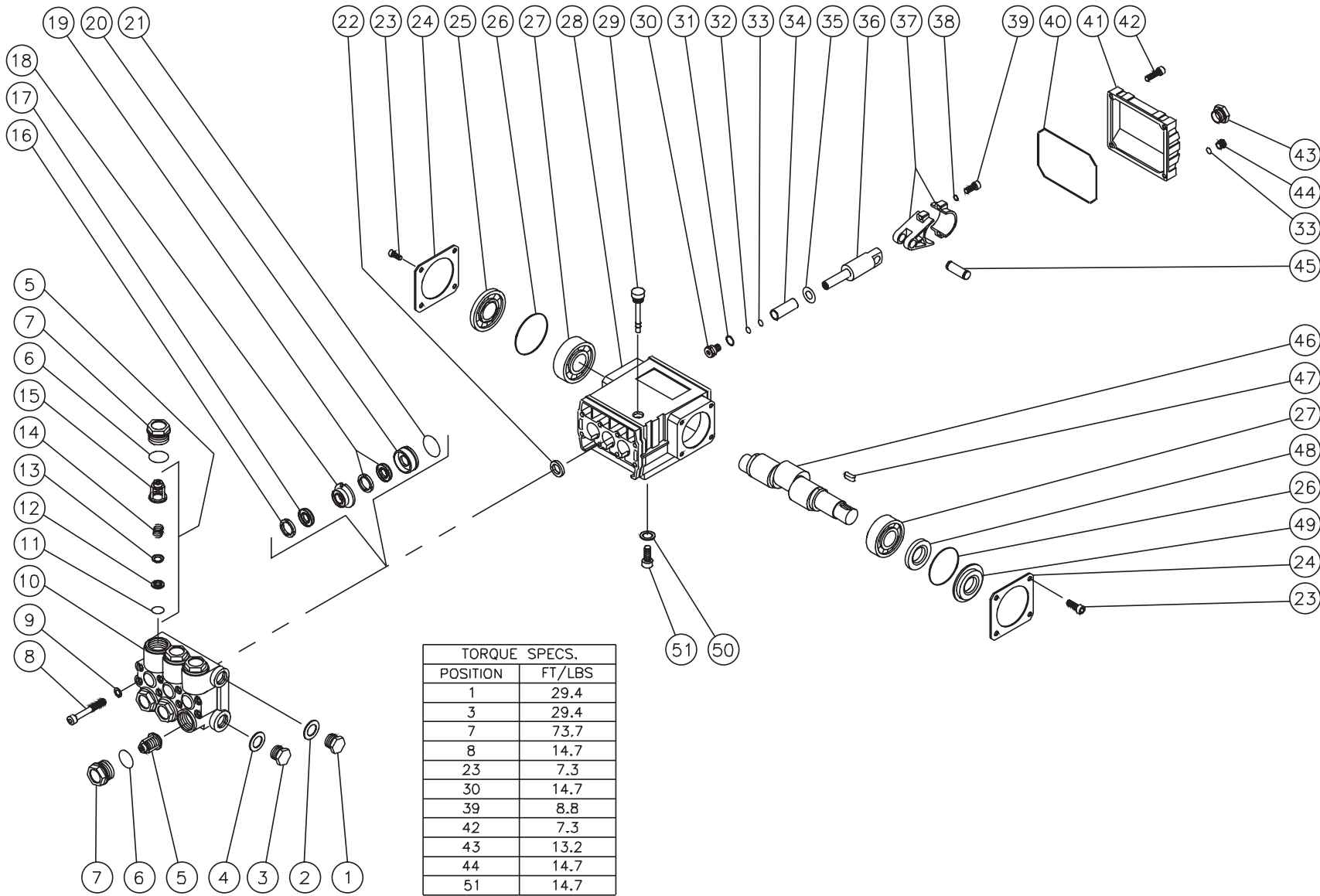
MOTOR/PUMP ASSEMBLY FOR HHS-2004/3004/3005A



HHS-2004/3004/3005A MOTOR PUMP ASSY-100405-RZ

MOTOR/PUMP ASSEMBLY FOR HHS-2004/3004/3005A											
REF. #	DESCRIPTION	PART #	QTY.	REF. #	DESCRIPTION	PART #	QTY.	REF. #	DESCRIPTION	PART #	QTY.
1	Nylock	30-0157	1	23	Belt (HHS-2004)	11-0008	2	29	Motor- 10HP (HHS-3005-1E8A)	2-0130	1
2	Flatwasher	28-0003	1	-	Belt (HHS-3004)	11-0057	2	-	Motor- 10HP (HHS-3005-1E9A)	2-0131	1
3	Bolt	27-0066	1	-	Belt (HHS-3005)	11-0005	2	-	Motor- 10HP (HHS-3005-1E2A)	2-0132	1
4	Baseplate	5-0152A18	1	24	Bushing	9-0017	1	30	Conduit Elbow	32-0487	2
5	Bolt	27-0118	8	25	Bolt w/ Bushing	27-0015	4	31	Conduit Flex *(Three Feet Required)	32-0486	1
6	Bolt w/ Pump	27-8884	4	26	Bushing (HHS-2004)	9-0010	1	32	Locknut	32-0292	1
7	Lockwasher w/ Pump	29-0054	4	-	Bushing (HHS-3004/3005)	9-0008	1	33	Nipple	24-0002	1
8	Flatwasher	28-0023	13	27	Sheave (HHS-2004)	10-0036	1	34	Swivel	24-0037	1
9	Pump Hat	5-0154A18	1	-	Sheave (HHS-3004)	10-0041	1	35	Pressure Switch	22-0171	1
10	Clip Nut	30-6025	2	-	Sheave (HHS-3005)	10-0104	1	36	High Pressure Hose Assembly	15-0221	1
11	Bolt	27-0133	2	28	Motor Key	43-0078	1	37	Nipple	23-0370	1
12	Hex Nut	30-0006	2	29	Motor- 6HP (HHS-2004-1E2A)	2-0107	1	38	Unloader Assembly	850-0252	1
13	Nylock Hex Nut	30-0159	8	-	Motor- 6HP (HHS-2004-1E3A/4A)	2-0108	1	39	Elbow	24-0092	1
14	Plug	23-0411	1	-	Motor- 8HP (HHS-3004-1E2A)	2-0109	1	40	Hose *(Three Feet Required)	15-0200	1
15	Hose Barb	23-0360	5	-	Motor- 8HP (HHS-3004-1E3A/4A)	2-0110	1	41	Hose *(Three Feet Required)	15-0021	1
16	Hose	15-0007	1	-	Motor- 8HP (HHS-3004-1E5A)	2-0111	1	42	Clamp Worm	42-0004	1
17	Clamp Worm	42-0011	1	-	Motor- 10HP (HHS-3005-1E3A/4A)	2-0112	1	43	Hose Barb	23-0051	1
18	Elbow	23-0119	1	-	Motor- 10HP (HHS-3005-1E5A)	2-0113	1	44	Elbow	23-0389	1
19	Pump	3-0211	1	-	Motor- 6HP (HHS-2004-1E8A)	2-0124	1	45	Nipple	23-0361	1
20	Thermal Relief Valve	22-0005	1	-	Motor- 8HP (HHS-3004-1E8A)	2-0125	1	46	Street Tee	23-0388	1
21	Pump Key	43-0048	1	-	Motor- 6HP (HHS-2004-1E9A)	2-0127	1	*Must Order in One Foot Lengths.			
22	Sheave	10-0007	1	-	Motor- 8HP (HHS-3004-1E9A)	2-0129	1				

PUMP ASSEMBLY (3-0005)

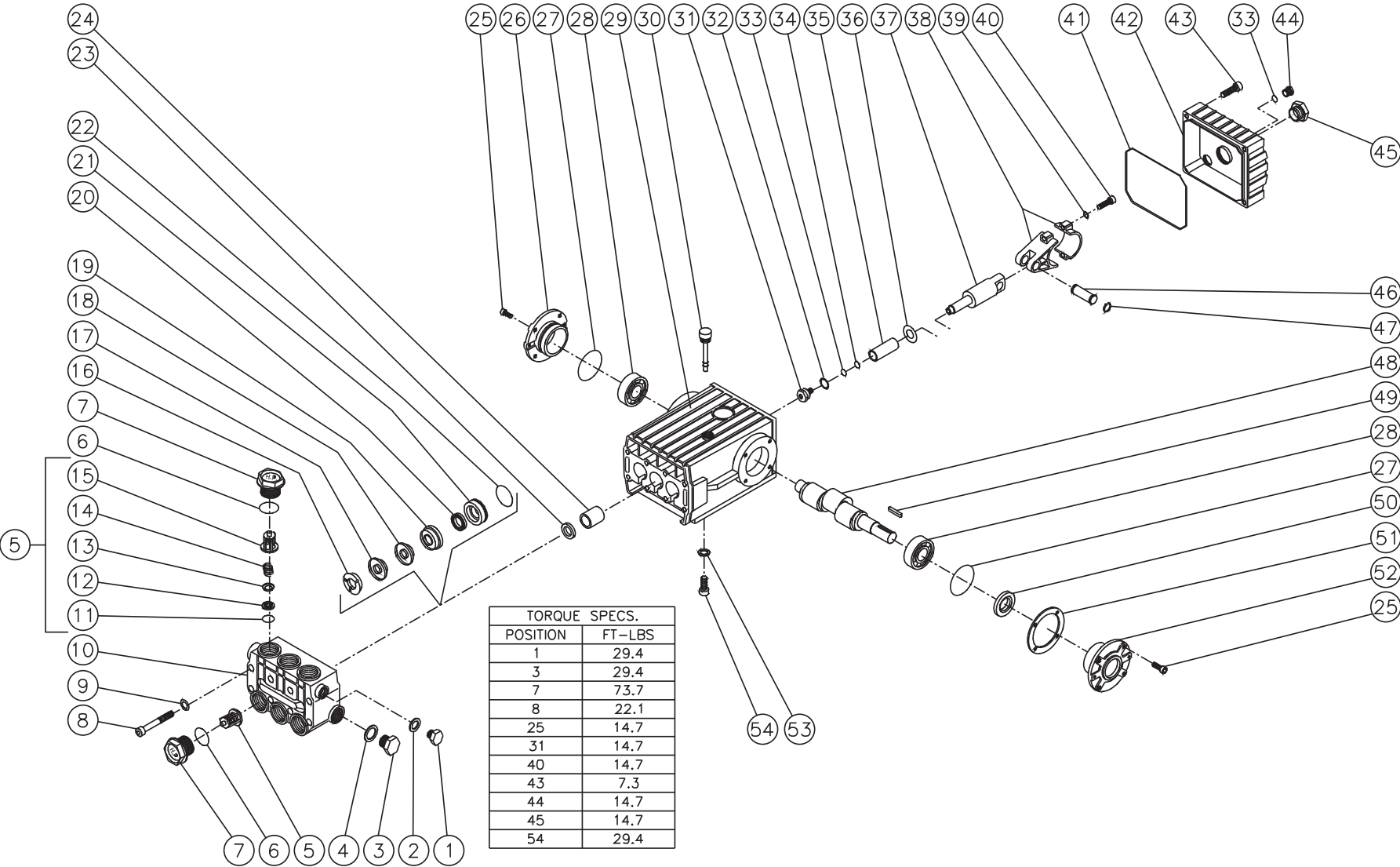


3-0005-062800-RD

PUMP ASSEMBLY (3-0005)

REF #	DESCRIPTION	PART #	QTY	REF #	DESCRIPTION	PART #	QTY	REF #	DESCRIPTION	PART #	QTY
1	Hex Plug	39-0018	1	20	Low Pressure Seal Retainer	46-0081	3	39	Bolt	27-8405	6
2	Washer	28-0600	1	21	O-ring	25-0048	3	40	Gasket Cover - Old Style	26-0081	1
3	Hex Plug	39-0019	1	22	Oil Seal	26-0046	3	-	O-ring Cover- New Style	25-0317	1
4	Washer	28-0601	1	23	Bolt	27-8000	8	41	Crankcase Cover - Old Style	46-0085	1
5	Valve Assembly (Inc. 11-15) (See 70-0009)	N/A Sep.	6	24	Retainer/Oil Level/Spacer	46-0084	2	-	Crankcase Cover - New Style	46-0226	1
6	O-ring	25-0012	6	25	Spacer	46-0088	1	42	Bolt	27-8401	5
7	Valve Plug	39-0020	6	26	O-ring	25-0060	2	43	Oil Level Indicator	46-0114	1
8	Bolt	27-8439	8	27	Ball Bearing	48-0011	2	44	Hex Plug	39-0017	1
9	Lockwasher	29-0154	8	28	Crankcase	46-0225	1	45	Connecting Rod Pin	43-0031	3
10	Pump Manifold	46-0083	1	29	Oil Dipstick	46-0143	1	46	Crankshaft	46-0230	1
11	O-ring (See 70-0009)	N/A Sep.	6	30	Piston Screw	46-0069	3	47	Key	43-0028	1
12	Valve Seat (See 70-0009)	N/A Sep.	6	31	Washer	28-0400	3	48	Oil Seal	26-0048	1
13	Valve Plate (See 70-0009)	N/A Sep.	6	32	O-ring	25-0014	4	49	Spacer-Bearing	46-0087	1
14	Valve Spring (See 70-0009)	N/A Sep.	6	33	Back-up Ring	46-0109	3	50	Lockwasher	46-0605	4
15	Valve Cage (See 70-0009)	N/A Sep.	6	34	Plunger-Ceramic	46-0078	3	51	Bolt	46-0606	4
16	Head Ring (See 852-0012)	N/A Sep.	3	35	Flinger Washer	46-0146	3		Valve Kit (Inc. 6 each of 5, 11-15)	70-0009	
17	V-Packing (See 852-0012)	N/A Sep.	3	36	Piston Rod	46-0080	3		Packing Kit (Inc. 3 each of 17, 19)	70-0040	
18	Intermediate Ring	46-0089	3	37	Connecting Rod	46-0077	3		Packing Kit (Inc. 3 each of 16, 17, 19, 21)	852-0012	
19	Low Pressure Seal (See 852-0012)	N/A Sep.	3	38	Washer	28-0201	6		Head Ring Kit (Inc. 3 each of 16)	70-0032	

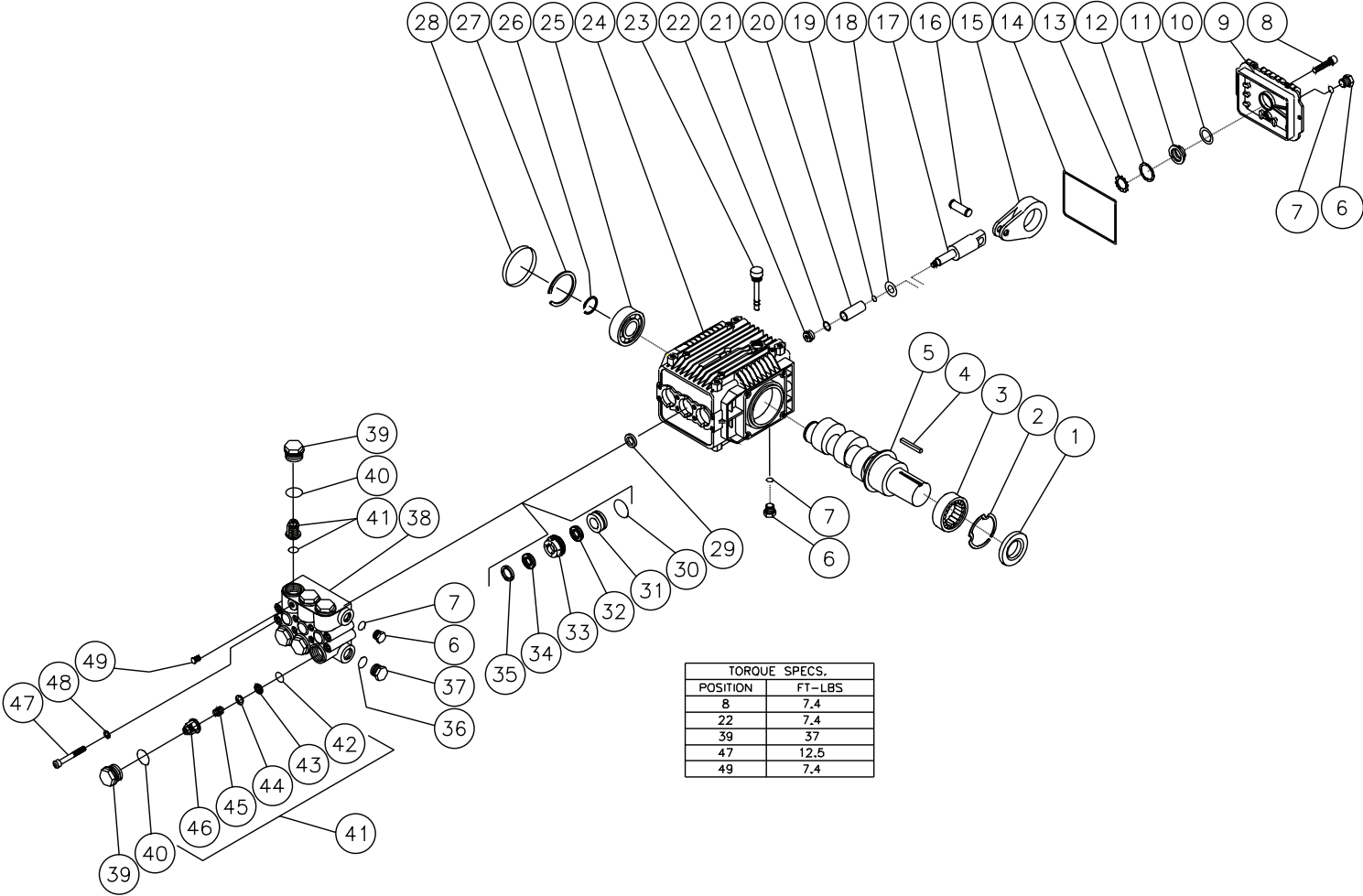
PUMP ASSEMBLY (3-0202)



3-0202-092001-EDW

PUMP ASSEMBLY (3-0202)											
REF. #	DESCRIPTION	PART #	QTY.	REF. #	DESCRIPTION	PART #	QTY.	REF. #	DESCRIPTION	PART #	QTY.
1	Plug	39-0018	1	21	Low Pressure Seal Retainer	46-0887	3	41	O-ring Cover	25-0339	1
2	Washer	28-1002	1	22	O-ring	25-0015	3	42	Crankcase Cover	46-0295	1
3	Plug	39-0019	1	23	Oil Seal	26-0047	3	43	Bolt	27-8404	5
4	Washer	28-1038	1	24	Bushing	9-0029	3	44	Plug	39-0017	1
5	Valve Assembly (Inc. 11-15) (See 70-0009)	N/A Sep.	6	25	Bolt	27-8431	8	45	Oil Level Indicator	46-0114	1
6	O-ring	25-0012	6	26	Crankcase Cover	46-0336	1	46	Connecting Rod Pin	43-0032	3
7	Valve Plug	46-0889	6	27	O-ring	25-0013	2	47	Retaining Ring	46-0103	6
8	Bolt	27-8185	8	28	Bearing	48-0012	2	48	Crankshaft	46-0050	1
9	Flatwasher	28-1039	8	29	Crankcase	46-0292	1	49	Key	43-0048	1
10	Manifold	46-0890	1	30	Oil Dip Stick	46-0144	1	50	Oil Seal	26-0049	1
11	O-ring (See 70-0009)	N/A Sep.	6	31	Bolt	46-0069	3	51	Shim	46-0113	1
12	Valve Seat (See 70-0009)	N/A Sep.	6	32	Gasket	28-0400	3	52	Crankcase Open Cover	46-0296	1
13	Valve Plate (See 70-0009)	N/A Sep.	6	33	O-ring	25-0014	4	53	Lockwasher	29-0055	4
14	Valve Spring (See 70-0009)	N/A Sep.	6	34	Back-up Ring	46-0109	3	54	Bolt	27-8471	4
15	Valve Cage (See 70-0009)	N/A Sep.	6	35	Plunger	46-0052	3		Valve Assembly (6 each 5, 11-15)	70-0009	
16	High Pressure Head Ring (See 70-0030)	N/A Sep.	3	36	Washer	46-0146	3		Head Ring Kit (3 each 16)	70-0030	
17	High Pressure V-Packing (See 70-0299)	N/A Sep.	3	37	Piston Rod	46-0056	3		V-Packing Kit (3 each 17, 18, 20)	70-0299	
18	V-Packing Support (See 70-0299)	N/A Sep.	3	38	Connecting Rod	46-0051	3		Intermediate Retainer Kit (3 each 18, 19)	70-0148	
19	High Pressure Intermediate Seal Retainer	46-0659	3	39	Lockwasher	29-0154	6		Low Pressure Seal Kit (3 each 20-22)	70-0298	
20	Low Pressure Seal	46-0886	3	40	Bolt	27-8435	6		V-Packing Assembly (Inc. 16-22)	70-0300	

PUMP ASSEMBLY (3-0210)

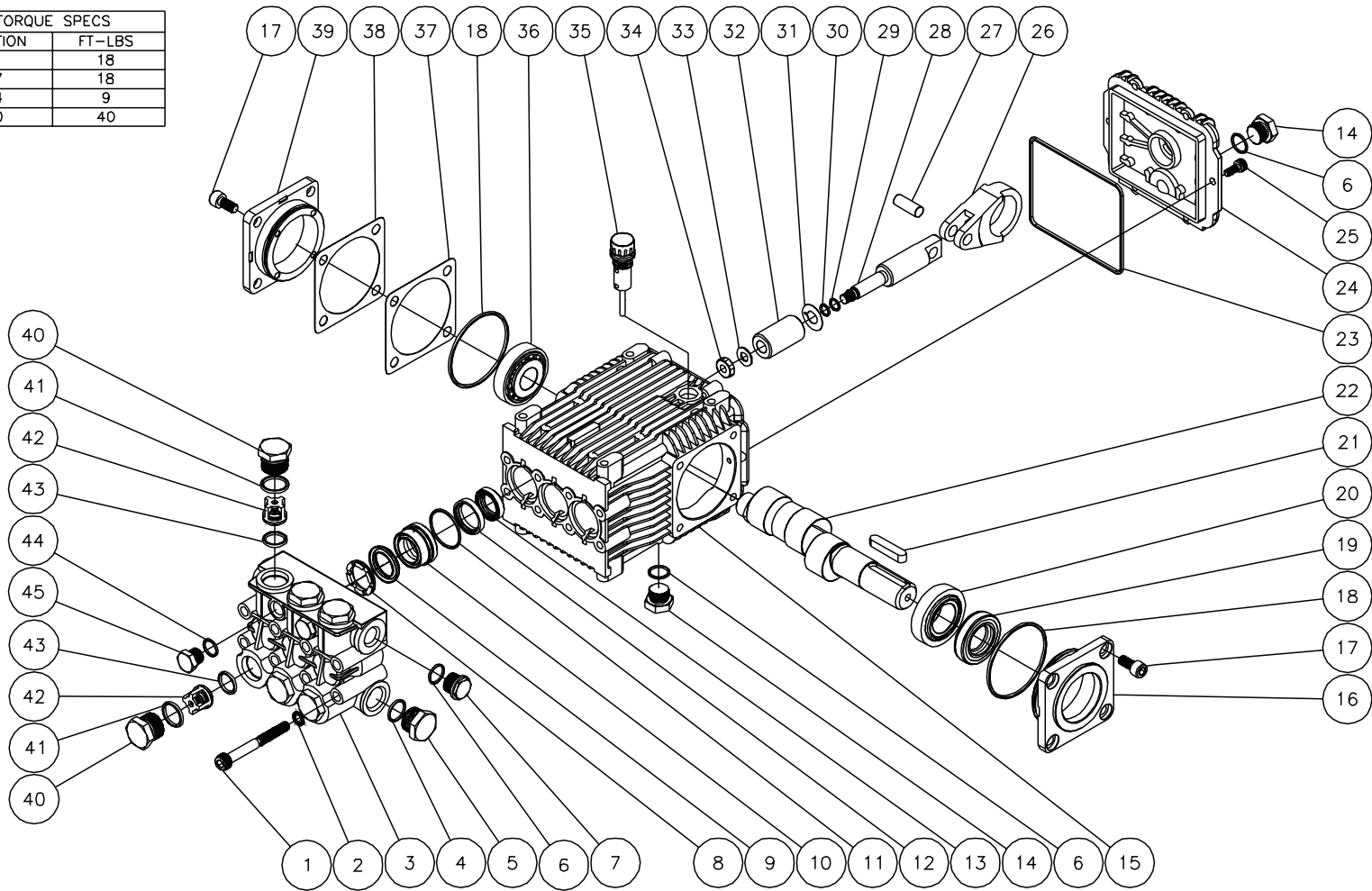


3-0210-030703-RD

PUMP ASSEMBLY (3-0210)											
REF. #	DESCRIPTION	PART #	QTY.	REF. #	DESCRIPTION	PART #	QTY.	REF. #	DESCRIPTION	PART #	QTY.
1	Oil Seal	26-0250	1	19	O-ring	25-0371	3	37	Plug	39-0088	1
2	Retaining Ring	46-0667	1	20	Piston	46-0723	3	38	Manifold	46-0730	1
3	Bearing	48-0059	1	21	Washer	26-0187	3	39	Valve Cap	39-0087	6
4	Key	43-0091	1	22	Nut	30-6016	3	40	O-ring	25-0160	6
5	Crankshaft	46-0754	1	23	Oil Dipstick	39-0090	1	41	Single Valve Assembly (Inc. 42-46) (See 70-0161)	N/A Sep.	6
6	Plug	39-0086	3	24	Crankcase	46-0724	1	42	O-ring	25-0386	6
7	O-ring	25-0325	3	25	Bearing	48-0063	1	43	Valve Seat (See 70-0161)	N/A Sep.	6
8	Bolt	27-8888	6	26	Retaining Ring	46-0732	1	44	Valve Plate (See 70-0161)	N/A Sep.	6
9	Crankcase Cover	46-0719	1	27	Retaining Ring	46-0676	1	45	Valve Spring (See 70-0161)	N/A Sep.	6
10	O-ring	25-0370	1	28	Bearing Cap	46-0725	1	46	Valve Cage (See 70-0161)	N/A Sep.	6
11	Oil Sight Glass	46-0670	1	29	Oil Seal	26-0193	3	47	Head Bolt	27-8875	8
12	Reflector	46-0824	1	30	O-ring	25-0399	3	48	Lockwasher	29-0153	8
13	Retainer	46-0671	1	31	Retainer	46-0726	3	49	Plug	39-0097	1
14	O-ring	25-0398	1	32	Low Pressure Seal (See 70-0181)	N/A Sep.	3		High Pressure Seals (Inc. 3 each 30, 32, 34)	70-0181	
15	Connecting Rod	46-0720	3	33	Packing Retainer	46-0728	3		Support Rings (Inc. 3 each 35)	70-0182	
16	Piston Pin	46-0721	3	34	V-packing (See 70-0181)	N/A Sep.	3		Valves (Inc. 6 each 42-46)	70-0161	
17	Plunger Rod	46-0722	3	35	Support Ring (See 70-0182)	N/A Sep.	3				
18	Washer	28-1022	3	36	O-ring	25-0372	1				

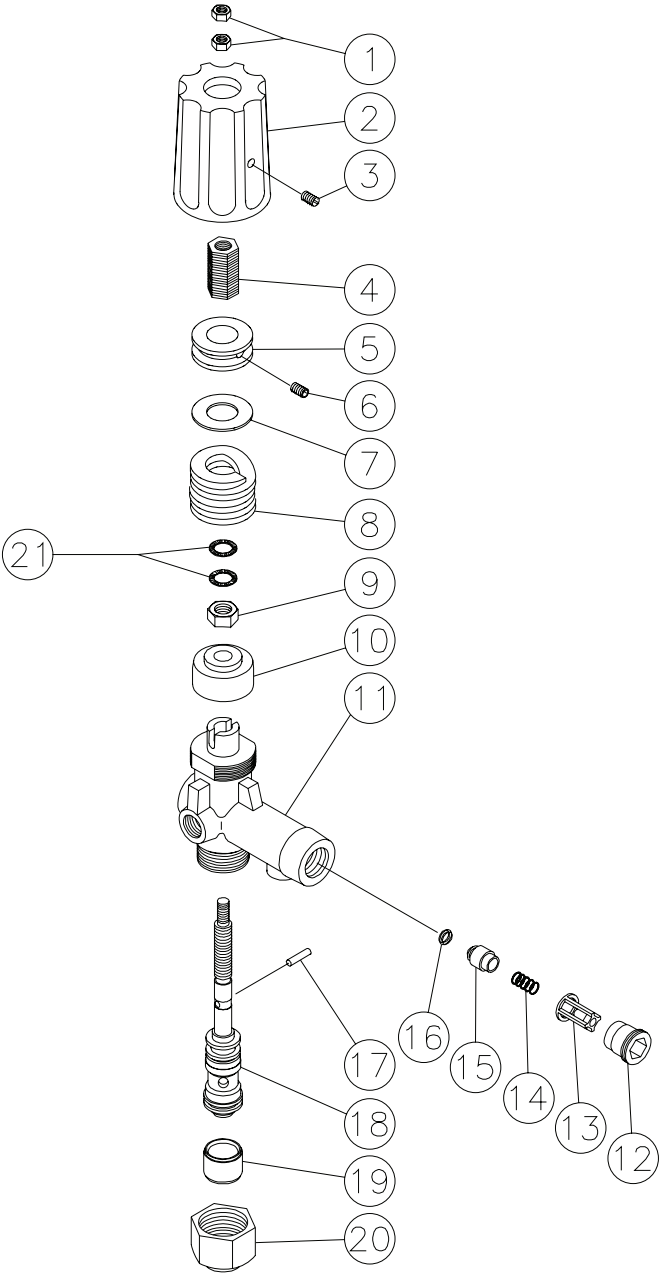
PUMP ASSEMBLY (3-0211)

TORQUE SPECS	
POSITION	FT-LBS
1	18
17	18
34	9
40	40



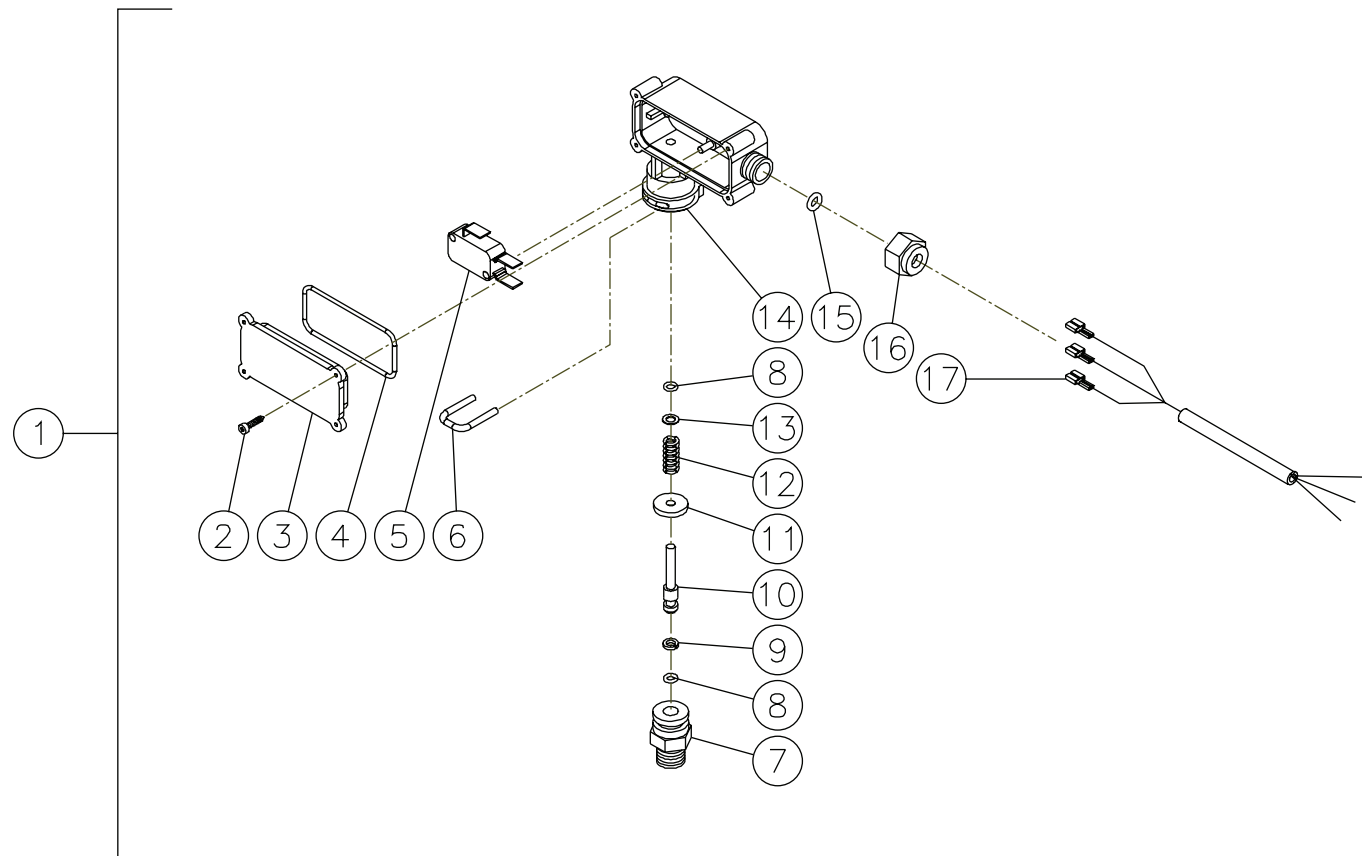
PUMP ASSEMBLY (3-0211)											
REF. #	DESCRIPTION	PART #	QTY.	REF. #	DESCRIPTION	PART #	QTY.	REF. #	DESCRIPTION	PART #	QTY.
1	Screw	27-8440	8	18	O-ring	25-0380	2	35	Oil Dipstick	39-0090	1
2	Lockwasher	29-0154	8	19	Oil Seal	26-0188	1	36	Bearing	48-0072	1
3	Pump Head	46-0927	1	20	Bearing	48-0061	1	37	Pump Shim (0.25mm)	46-0936	1
4	O-ring	25-0372	1	21	Key	43-0091	1	38	Pump Shim (0.2mm)	46-0705	1
5	Plug	39-0103	1	22	Crankshaft	46-0933	1	39	Bearing Cap/ Support	46-0703	1
6	O-ring	25-0510	3	23	O-ring	25-0398	1	40	Valve Cap	39-0105	6
7	Plug	39-0205	1	24	Crankcase Cover	46-0719	1	41	O-ring	25-0160	6
8	Support Ring (See 70-0323)	N/A Sep.	3	25	Screw	27-8401	6	42	Complete Valve (See 70-0319)	N/A Sep.	6
9	Gasket (See 70-0322)	N/A Sep.	3	26	Connecting Rod	46-0922	3	43	O-ring	25-0386	6
10	Piston Guide	46-0929	3	27	Piston Pin	46-0698	3	44	O-ring	25-0387	2
11	O-ring	25-0384	3	28	Plunger Rod	46-0699	3	45	Plug	39-0207	2
12	Gasket (See 70-0322)	N/A Sep.	3	29	Back-up Ring	25-0404	3		Valve Kit (Inc. 6 each 42)	70-0319	
13	Seal	46-0931	3	30	O-ring	25-0382	1		Piston Kit (Inc. 3 each 32)	70-0320	
14	Plug-Oil Drain	39-0206	2	31	Washer	46-0700	3		Oil Seal Kit (Inc. 4 each 13, 18-19, 23)	70-0321	
15	Crankcase	46-0811	1	32	Piston	46-0935	3		Water Seals Kit (Inc. 3 each 9, 11, 12)	70-0322	
16	Pump Shaft Cover	46-0691	1	33	Seal	26-0191	3		Support Ring Kit (Inc. 3 each 8)	70-0323	
17	Screw	27-8884	8	34	Nut	30-6020	3				

UNLOADER (850-0252)



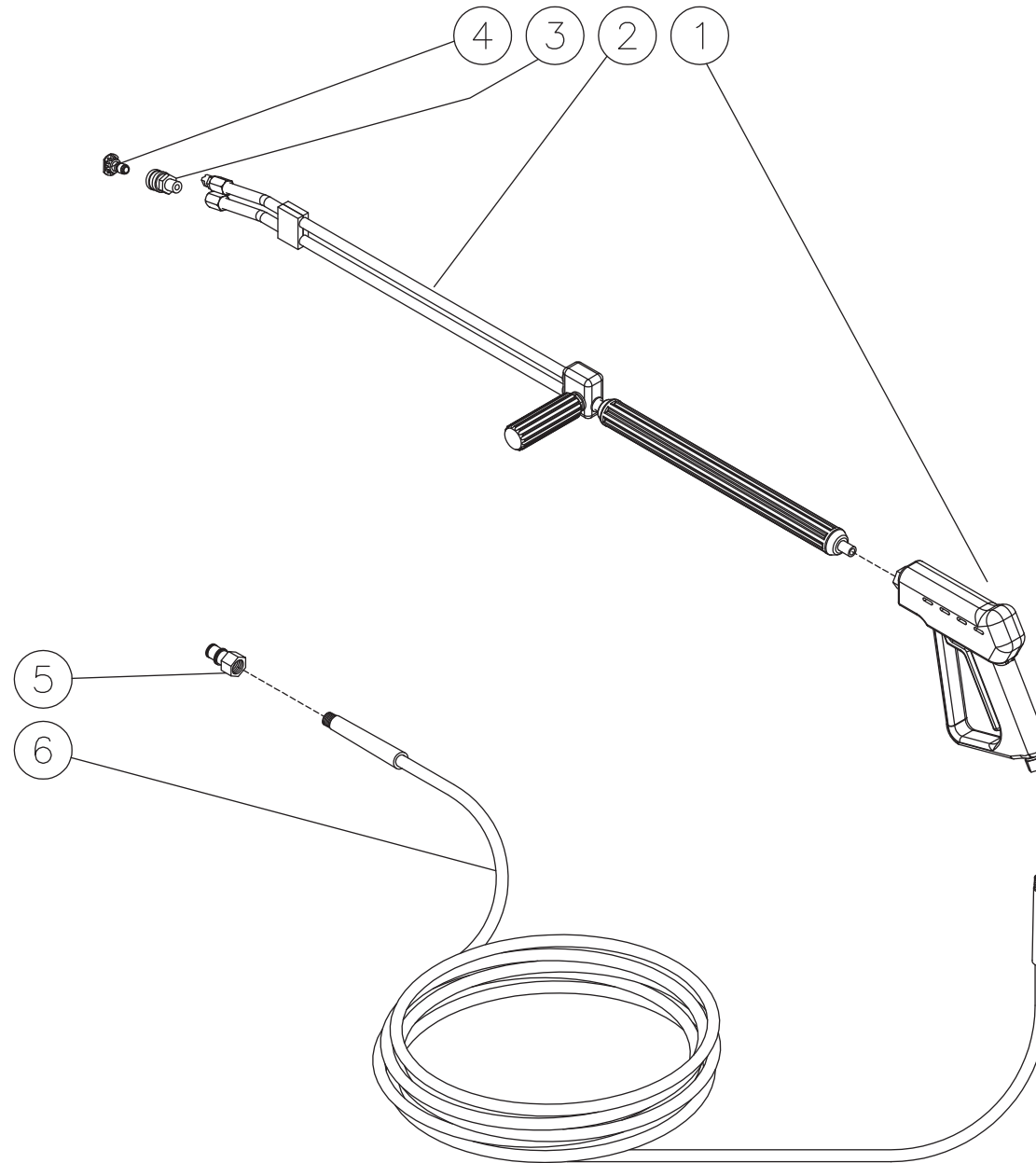
UNLOADER (850-0252)			
REF. #	DESCRIPTION	PART #	QTY.
1	Hex Nut	8-0362	2
2	Cover	7-0098	1
3	Set Screw	27-4280	1
4	Adjusting Insert- Brass	8-0363	1
5	Adjustment Nut	8-0364	1
6	Set Screw	8-0365	1
7	Glide Ring	8-0366	1
8	Spring	49-0104	1
9	Hex Nut	8-0367	1
10	Bushing	8-0368	1
11	Unloader Body	8-0369	1
12	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	

PRESSURE SWITCH (22-0171)



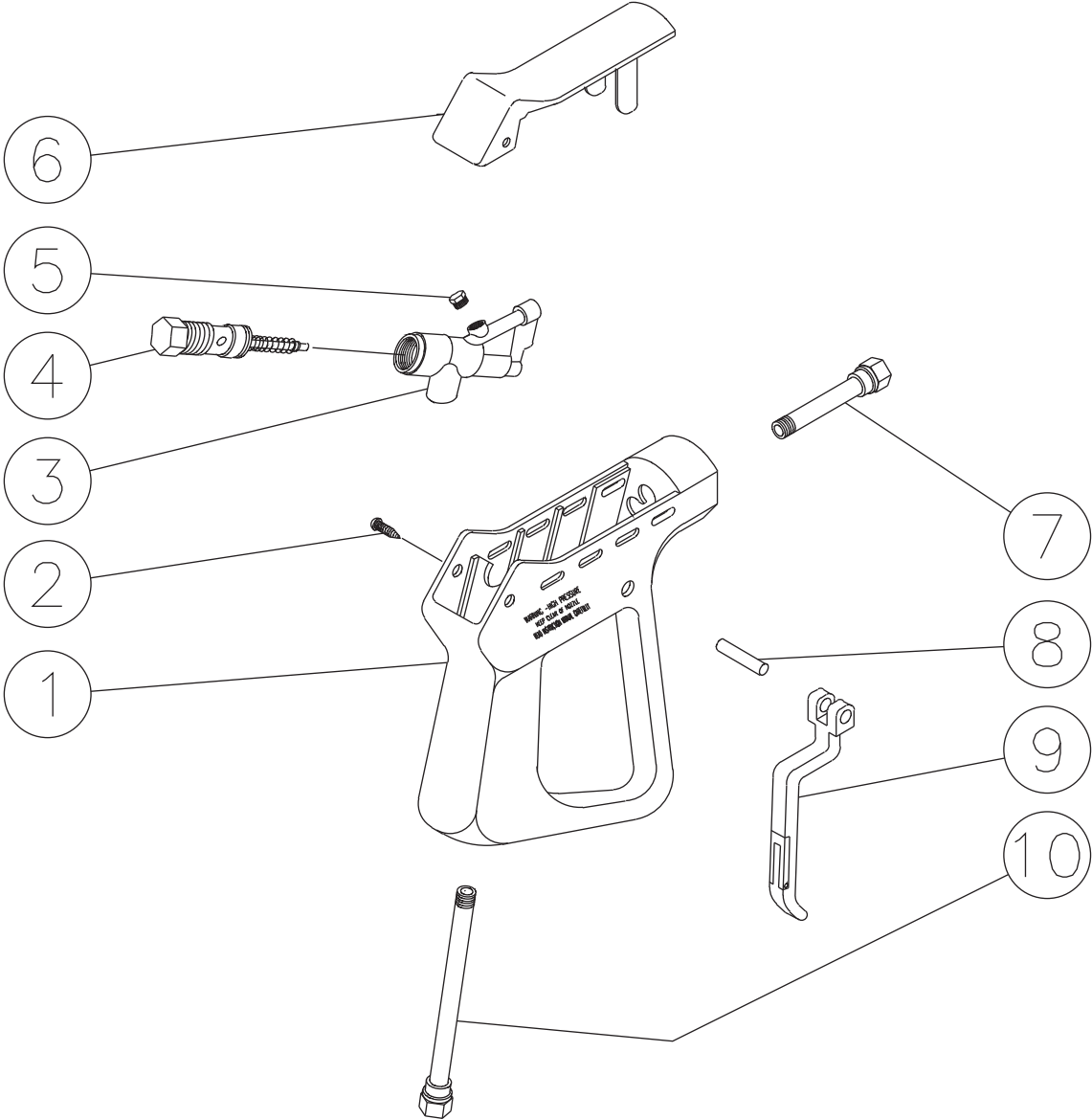
PRESSURE SWITCH (22-0171)			
REF. #	DESCRIPTION	PART #	QTY.
1	Pressure Switch	22-0171	1
2	Screw	N/A	4
3	Cover	N/A	1
4	O-ring (See 70-0306)	N/A Sep.	1
5	Micro Switch	N/A	1
6	Retainer Clip	N/A	1
7	Body	N/A	1
8	O-ring (See 70-0306)	N/A Sep.	2
9	Back-up Ring (See 70-0306)	N/A Sep.	1
10	Piston	N/A	1
11	Washer	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	

GUN/WAND/HOSE ASSEMBLY



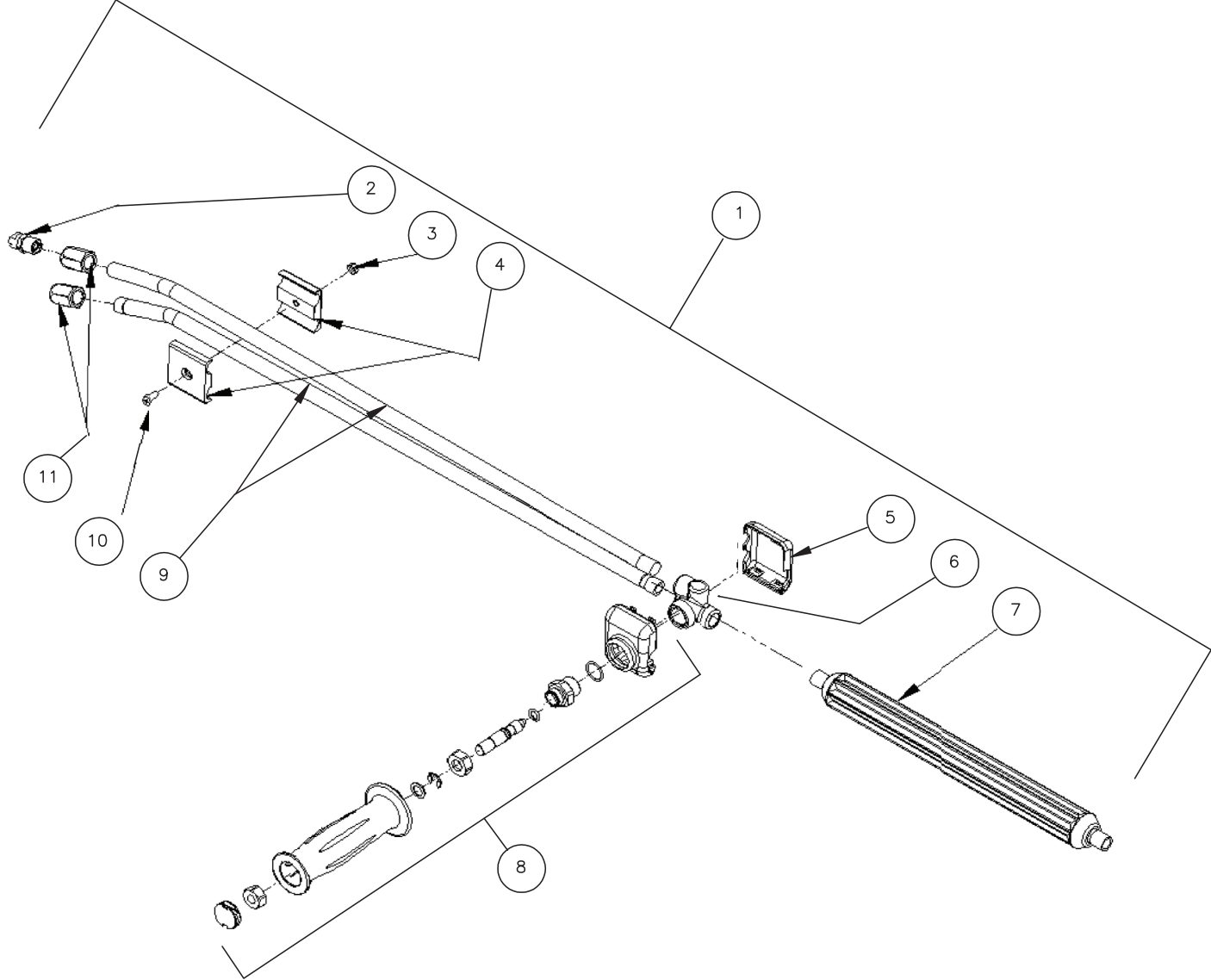
GUN/WAND/HOSE ASSEMBLY			
REF. #	DESCRIPTION	PART #	QTY.
1	Gun	16-0001	1
2	Dual Lance Assembly (HHS-1002/1003/2004/3004)	14-0416	1
-	Dual Lance Assembly (HHS-3005)	14-0417	1
3	Quick Connect Socket	17-0028	1
4	Nozzle- 0004 (HHS-1002)	18-0028	1
-	Nozzle- 1504 (HHS-1002)	18-0029	1
-	Nozzle- 2504 (HHS-1002)	18-0030	1
-	Nozzle- 4004 (HHS-1002)	18-0031	1
-	Nozzle- 0006 (HHS-2004)	18-0013	1
-	Nozzle- 1506 (HHS-2004)	18-0014	1
-	Nozzle- 2506 (HHS-2004)	18-0043	1
-	Nozzle- 4006 (HHS-2004)	18-0044	1
-	Nozzle- 0004.5 (HHS-3004)	18-0033	1
-	Nozzle- 1504.5 (HHS-3004)	18-0039	1
-	Nozzle- 25045 (HHS-3004)	18-0060	1
-	Nozzle- 4004.5 (HHS-3004)	18-0065	1
-	Nozzle- 0005.5 (HHS-1003/3005)	18-0035	1
-	Nozzle- 1505.5 (HHS-1003/3005)	18-0041	1
-	Nozzle- 2505.5 (HHS-1003/3005)	18-0062	1
-	Nozzle- 4005.5 (HHS-1003/3005)	18-0132	1
5	Socket	17-0006	1
6	High Pressure Hose Assembly (HHS-1002/1003/2004)	15-0146	1
-	High Pressure Hose Assembly (HHS-3004/3005)	15-0166	1

GUN ASSEMBLY (16-0001)



GUN ASSEMBLY (16-0001)			
REF. #	DESCRIPTION	PART #	QTY.
1	Plastic Housing	16-0008	1
2	Screw	27-3230	2
3	Brass Housing	16-0012	1
4	Gun Repair Kit	70-0055	1
5	Brass Plug	39-0024	1
6	Plastic Cover	16-0009	1
7	Pipe Assembly	16-0013	1
8	Trigger Pin	16-0063	1
9	Trigger/Safety Lock-off	16-0010	1
10	Pipe Assembly- Inlet	16-0016	1
	Complete Gun Assembly	16-0001	1

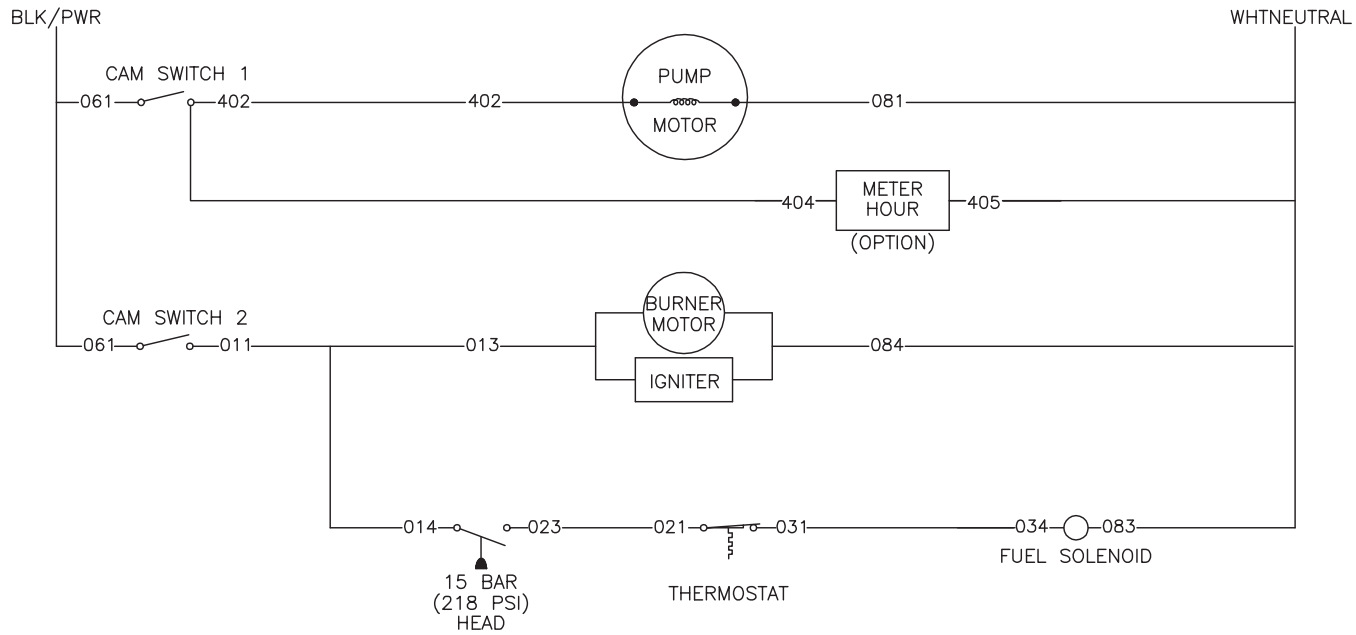
DUAL LANCE ASSEMBLY (16-0416 & 16-0417)



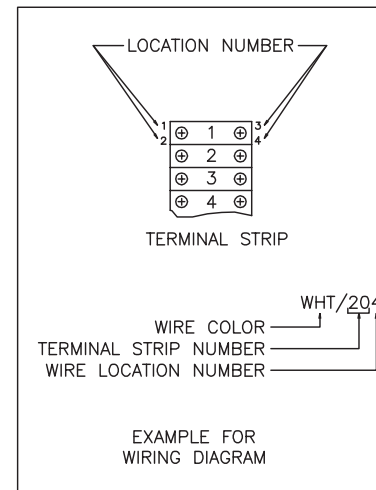
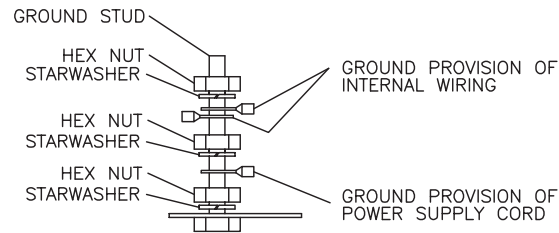
16-0416_16-0417-102405-RZ

DUAL LANCE ASSEMBLY (16-0416 & 16-0417)			
REF. #	DESCRIPTION	PART #	QTY.
1	Dual Lance Assembly - 36" (Inc. 2-11)	16-0416	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 16-0416 or 16-0417)	N/A Sep.	1
6	Housing (See 16-0416 or 16-0417)	N/A Sep.	1
7	Lance	16-0419	1
8	Handle Repair Kit	70-0419	1
9	Lance (See 16-0416)	N/A Sep.	2
-	Lance (See 16-0417)	N/A Sep.	2
10	Screw	27-8196	1
11	Nozzle Adapter	24-0280	2

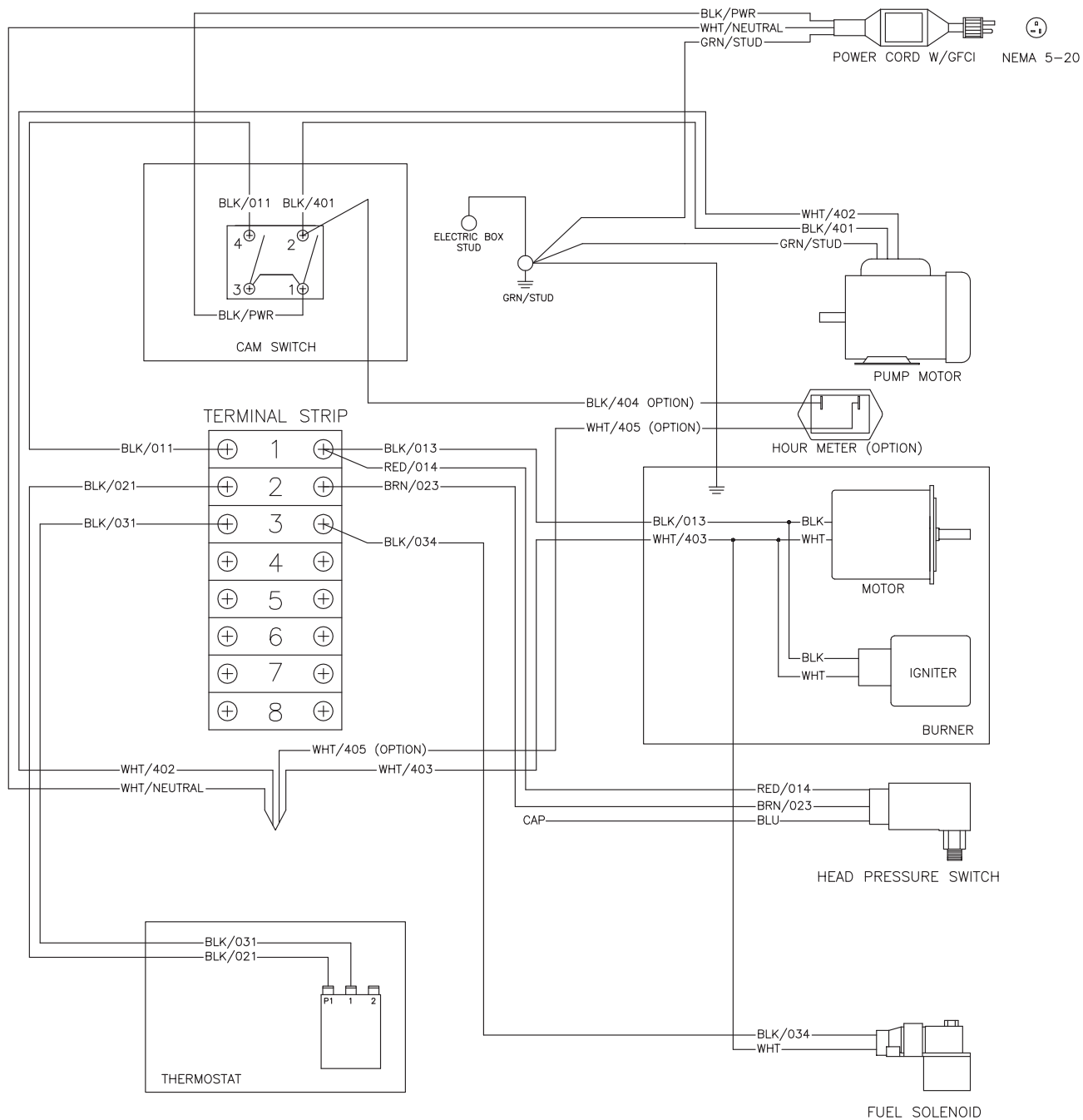
WIRE SCHEMATIC FOR HHS-1002/1003



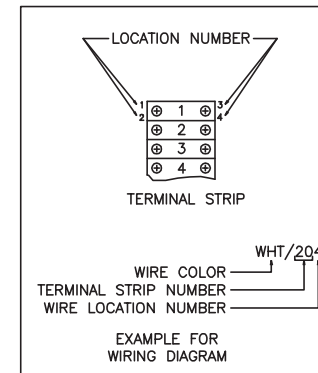
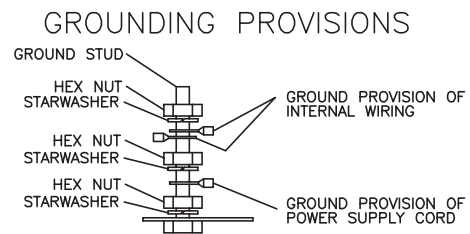
GROUNDING PROVISIONS



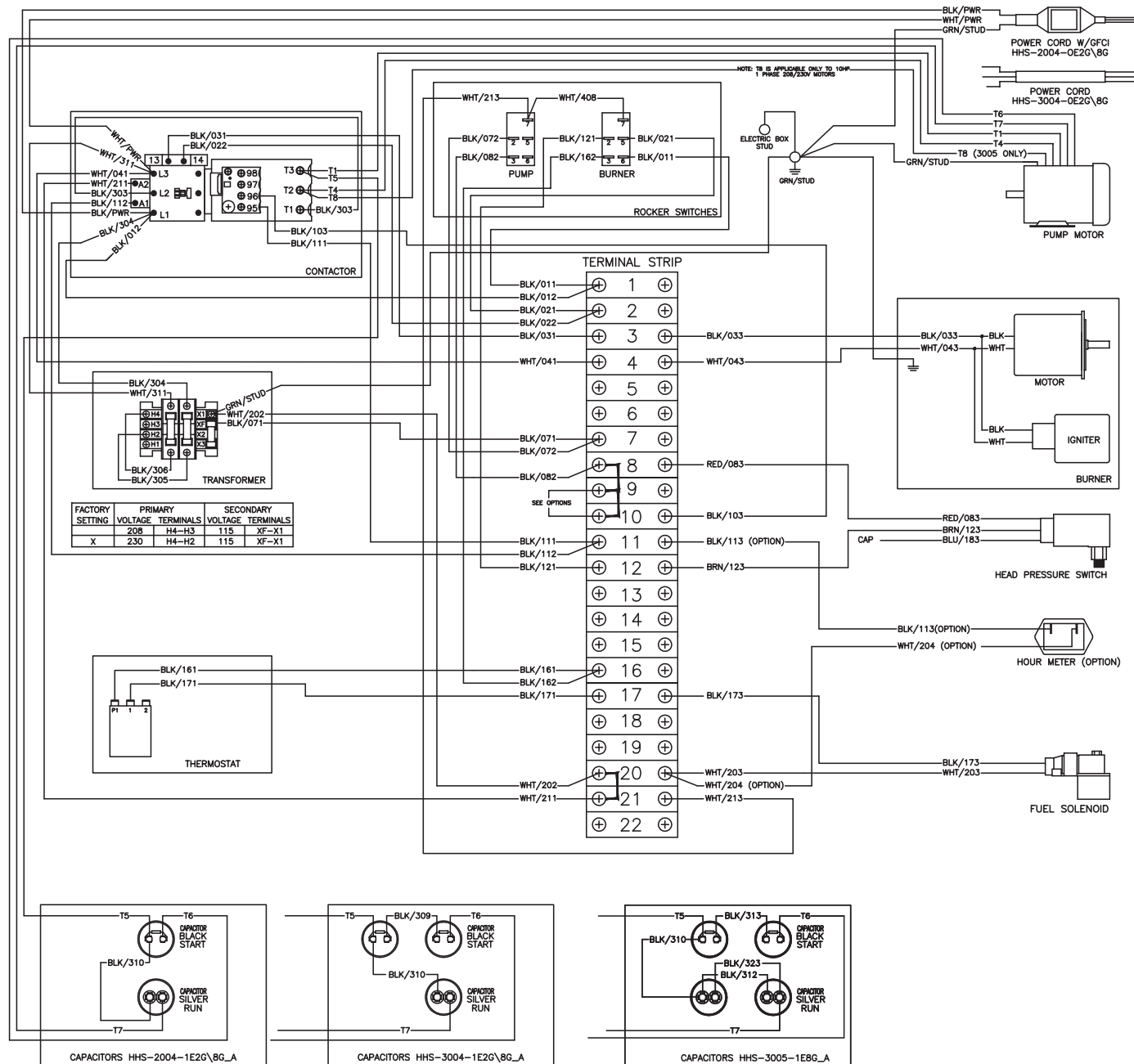
WIRE DIAGRAM FOR HHS-1002/1003



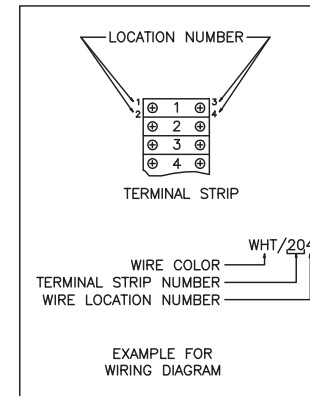
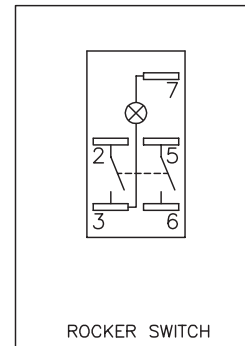
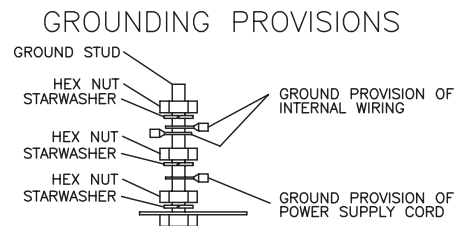
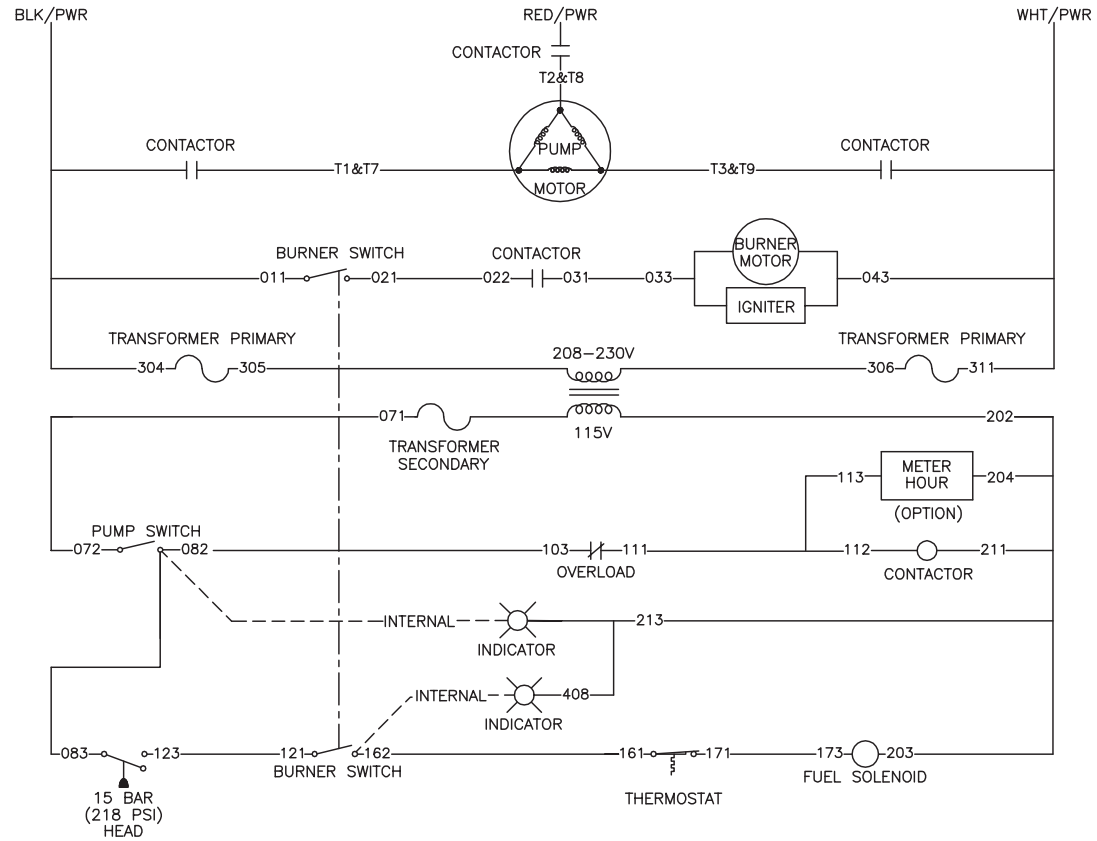
WIRE SCHEMATIC HHS-2004/3004/3005-1E2GA/8GA-101205-RZ



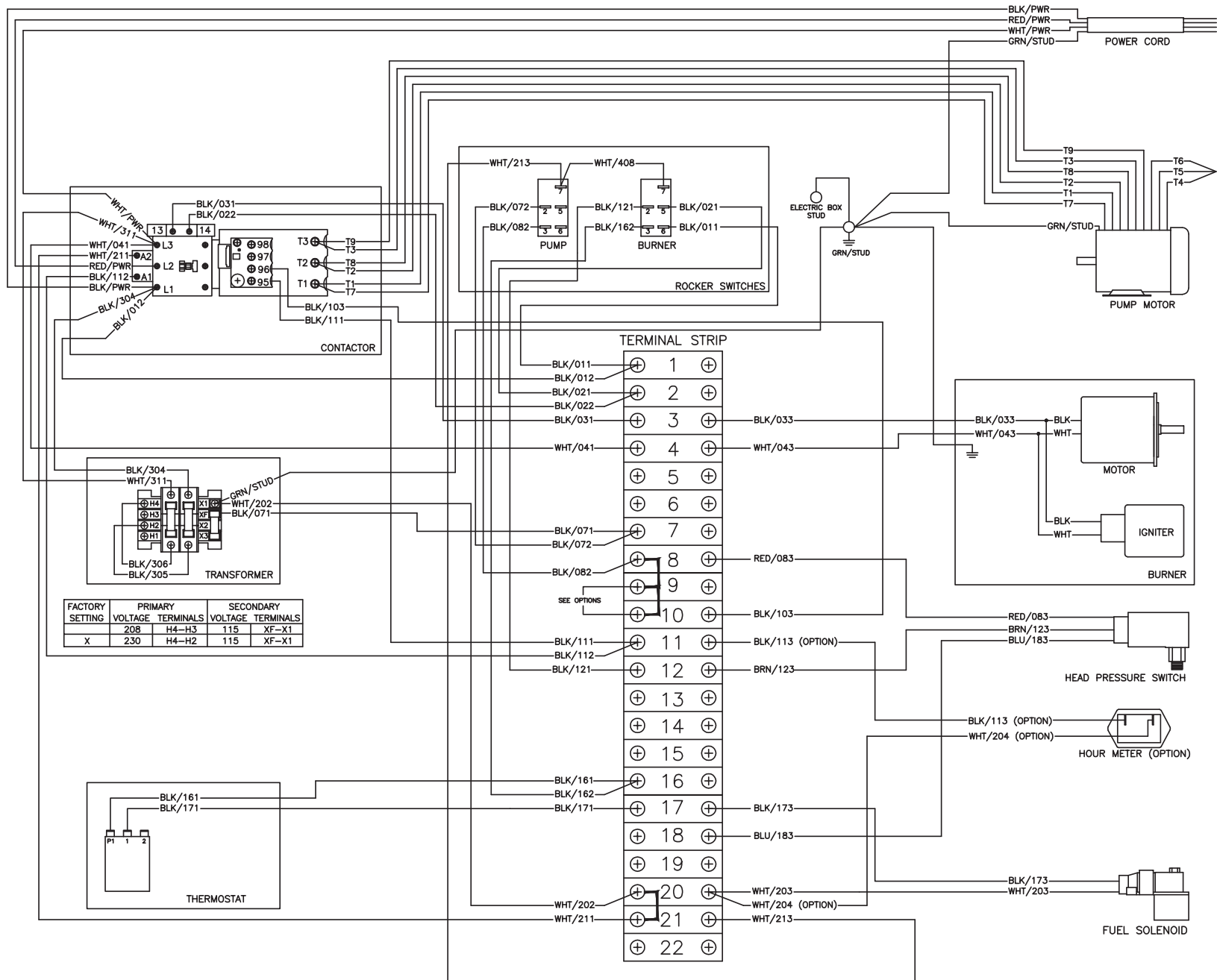
WIRE DIAGRAM FOR HHS-2004/3004/3005-1E2G/A & 1E8G/A



WIRE SCHEMATIC FOR HHS-2004/3004/3005-1E3GA & 1E9GA

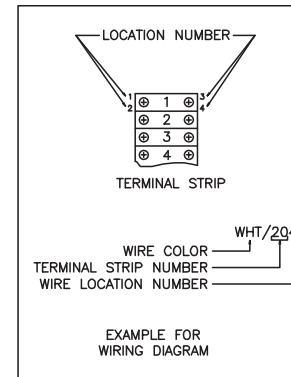
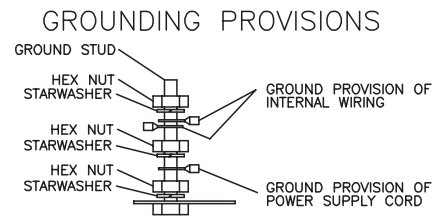


WIRE DIAGRAM FOR HHS-2004/3004/3005-1E3GA & 1E9GA

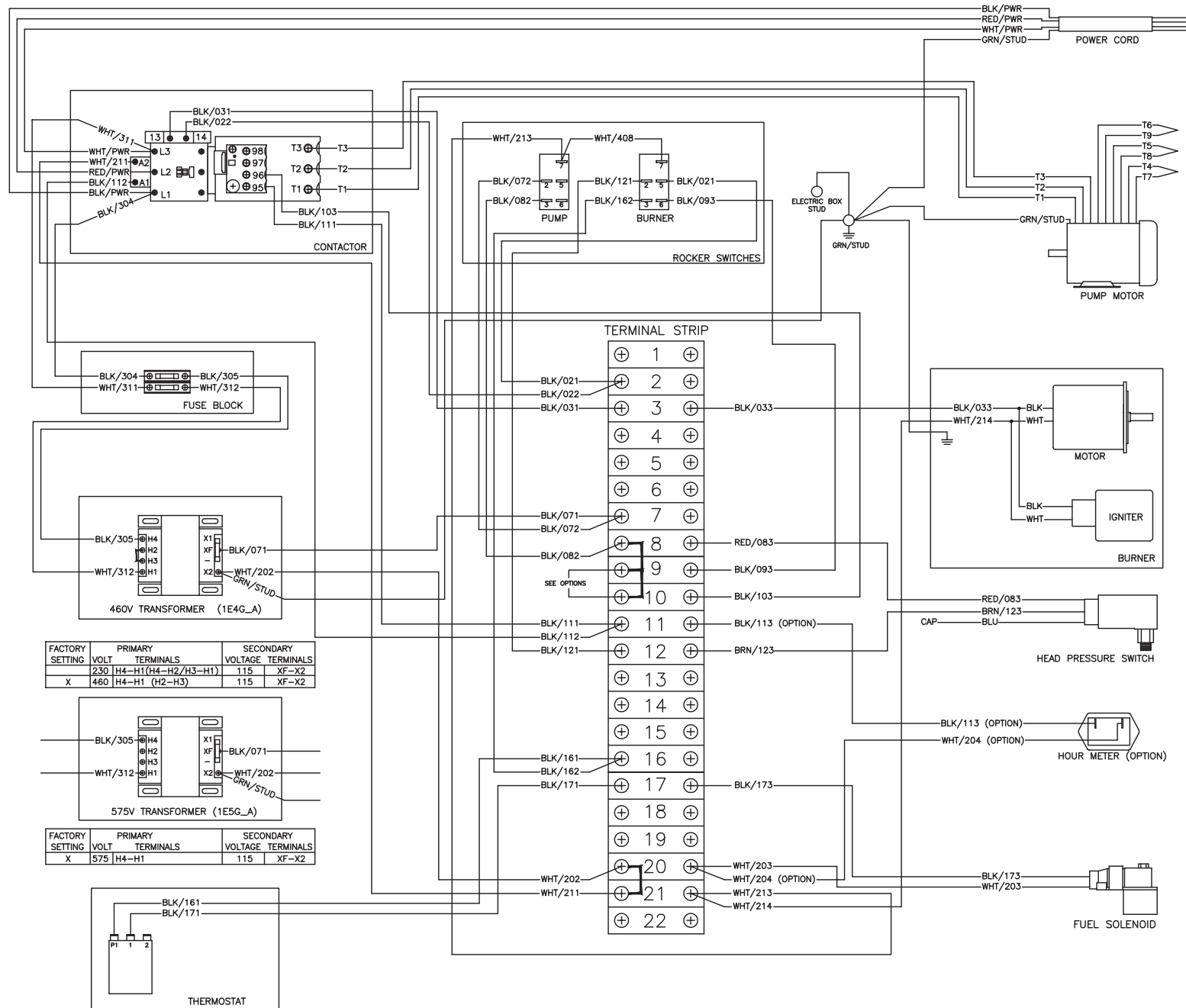


WIRE DIAGRAM HHS-2004/3004/3005-1E3GA/9GA-101205-RZ

WIRE SCHEMATIC HHS-2004/3004/3005-1E4GA/5GA-101205-RZ



WIRE DIAGRAM FOR HHS-2004/3004/3005-1E4G/A & 1E5G/A



WIRE DIAGRAM HHS-2004/3004/3005-1E4G/A/5GA-101205-RZ

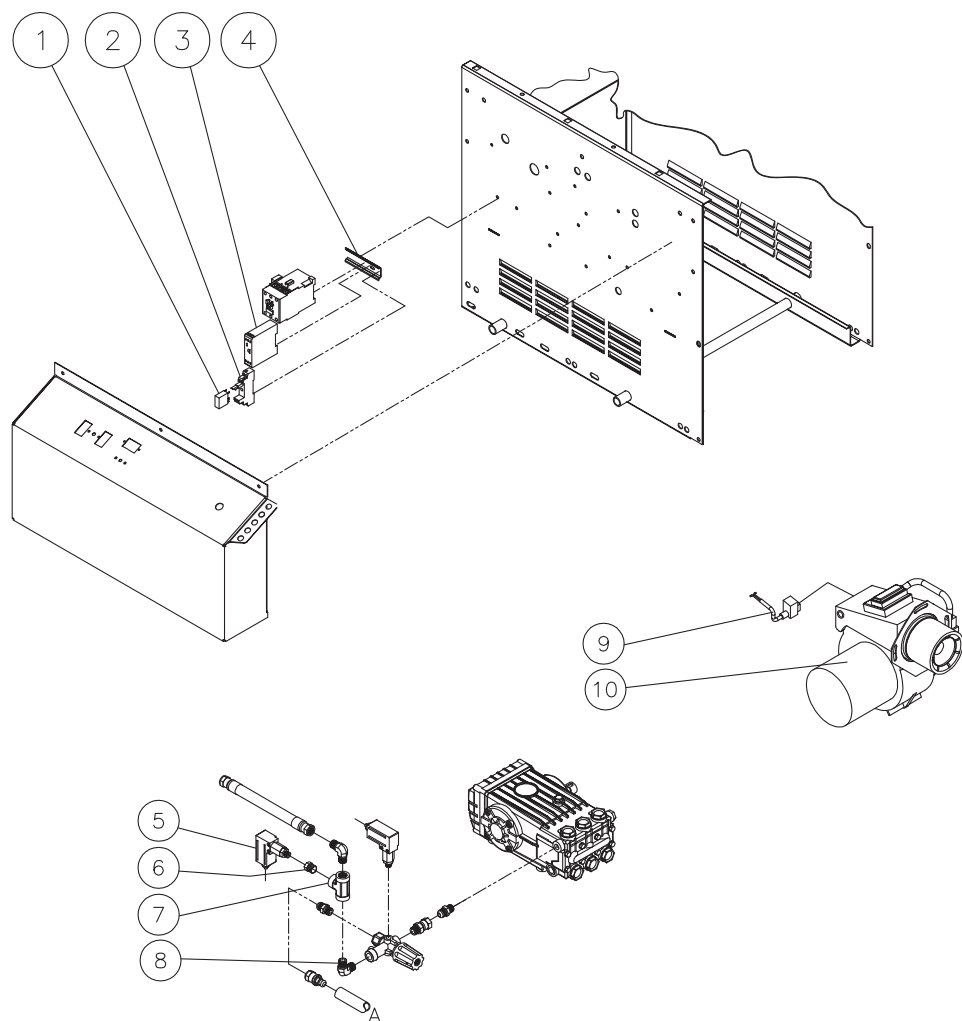
OPTION AVAILABILITY LISTING

	HX-0161	HX-0162	HX-0163	HX-0164	HX-0165	HX-0166	HX-0167	HX-0171	HX-0172	HX-0173	HX-0174	HX-0175	HX-0176
HHS-1002	X	X	X	X	X	X		X	X				
HHS-1003	X	X	X	X		X	X	X			X		
HHS-2004	X	X	X	X		X		X		X			
HHS-3004	X	X	X	X		X		X				X	
HHS-3005	X	X	X	X		X		X					X

NOTE: HHS-1002 & HHS-1003 models must have HX-0165 or HX-0167 respectively to have HX-0164 or HX-0166 option.

<u>OPTION</u>	<u>DESCRIPTION</u>
HX-0161	HOUR METER OPTION
HX-0162	STAINLESS STEEL BOTTOM COIL WRAP OPTION
HX-0163	13" MAG WHEEL OPTION
HX-0164	TIME DELAY OPTION
HX-0165	READY KIT OPTION
HX-0166	AUTO START/STOP OPTION
HX-0167	READY KIT OPTION
HX-0171	SKID FEET OPTION
HX-0172	250° STEAM OPTION
HX-0173	250° STEAM OPTION
HX-0174	250° STEAM OPTION
HX-0175	250° STEAM OPTION
HX-0176	250° STEAM OPTION

TIME DELAY SHUTDOWN (HX-0164) & AUTO START/STOP (HX-0166) OPTIONS



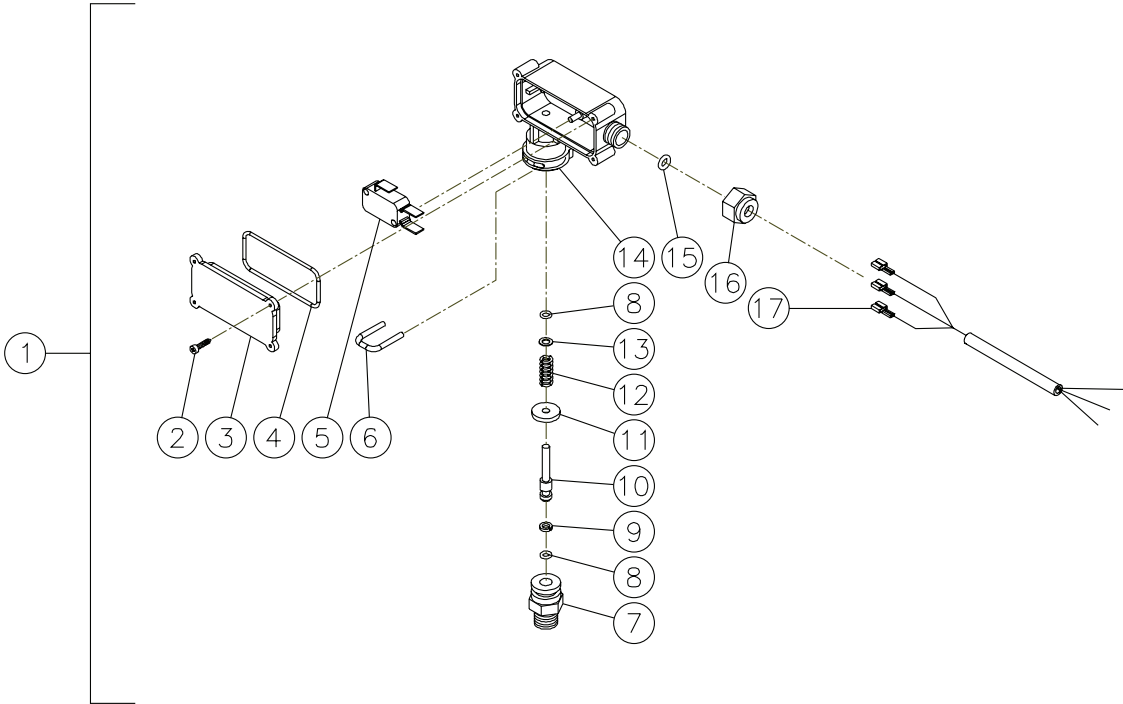
HX-0164_0166-101205-RZ

TIME DELAY SHUTDOWN (HX-0164) & AUTO START/STOP (HX-0166) OPTIONS			
REF. #	DESCRIPTION	PART #	QTY.
1	Relay (HX-0166)	32-0475	1
2	Socket (HX-0166)	32-0476	1
3	Timer (HX-0164 & HX-0166)	32-0509	1
4	Din Rail *(One Foot Required) (HX-0164 & HX-0166)	32-0316	1
5	Pressure Switch (HX-0166)	22-0243	1
6	Reducer (HX-0166)	24-0181	1
7	Tee (HX-0166)	24-0026	1
8	Elbow (HX-0166)	24-0131	1
9	Precision Delay Timer (HX-0166)	44-0121	1
10	Burner Motor	N/A	1
*Must Order in One Foot Lengths			

HX-0164_0166-101205-RZ

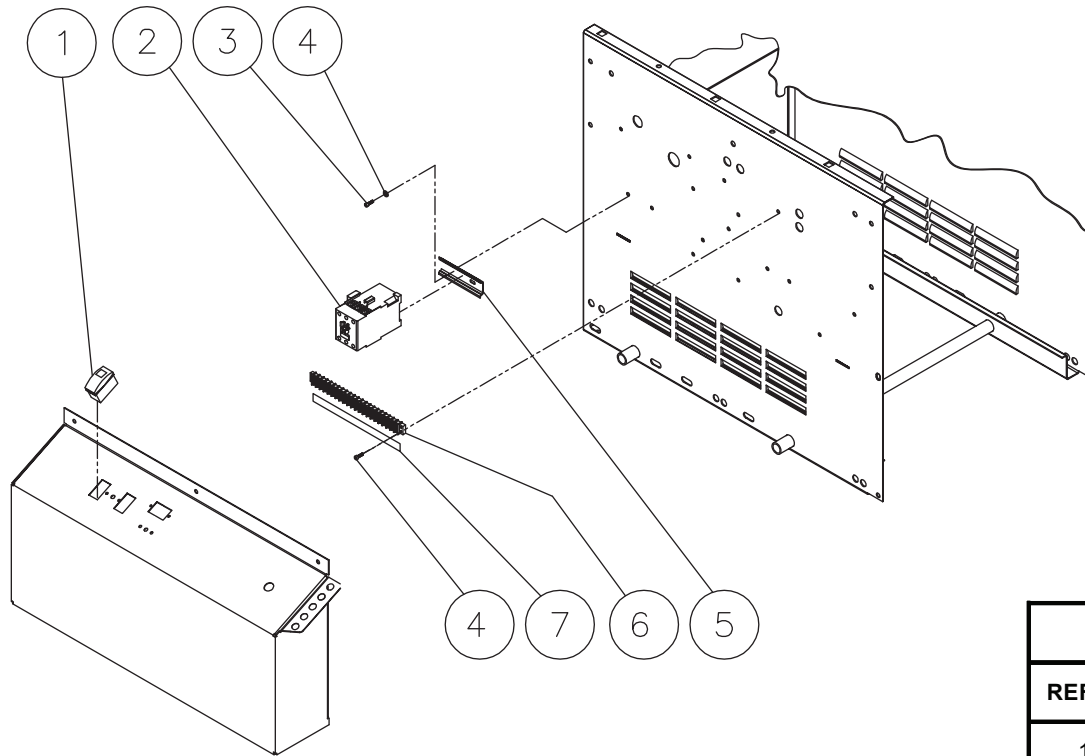
PRESSURE SWITCH (22-0243)

22-0243-120799-BAR



PRESSURE SWITCH (22-0243)			
REF. #	DESCRIPTION	PART #	QTY.
1	Pressure Switch	22-0243	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	49-0145	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	

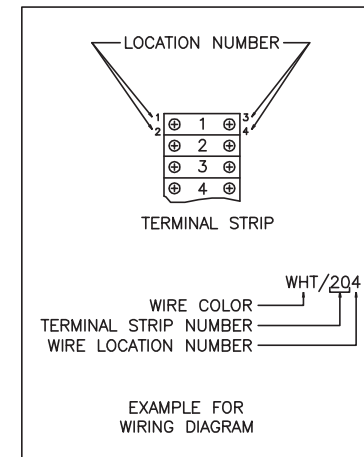
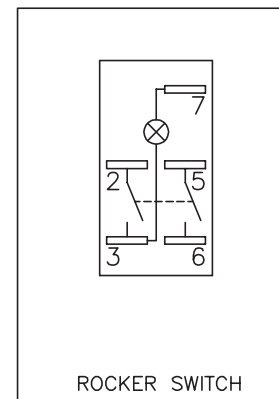
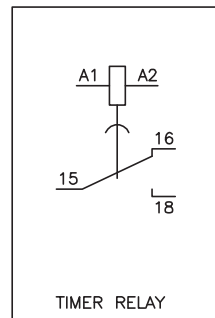
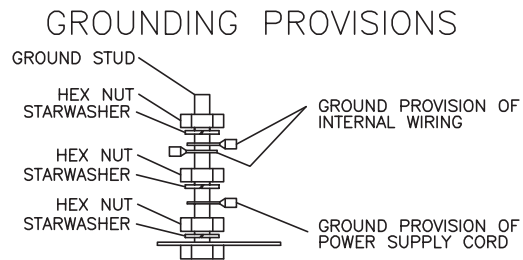
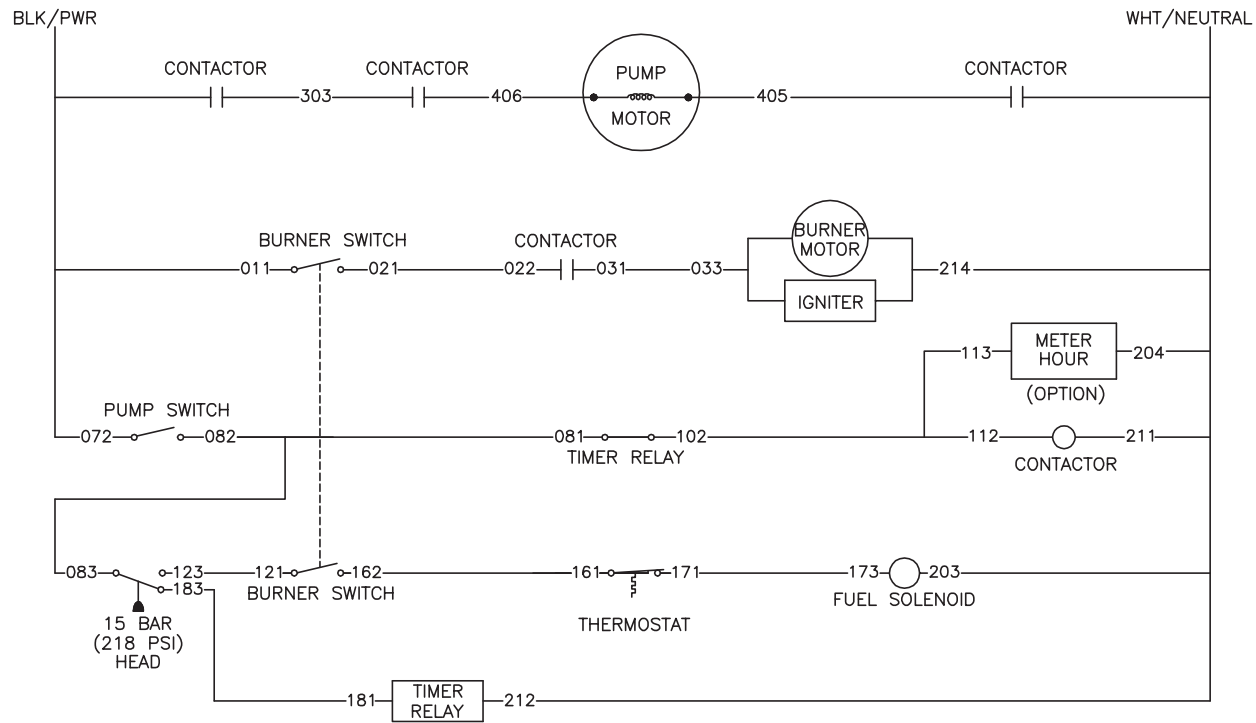
READY KIT OPTION (HX-0165 & HX-0167) (HHS-1002/1003)



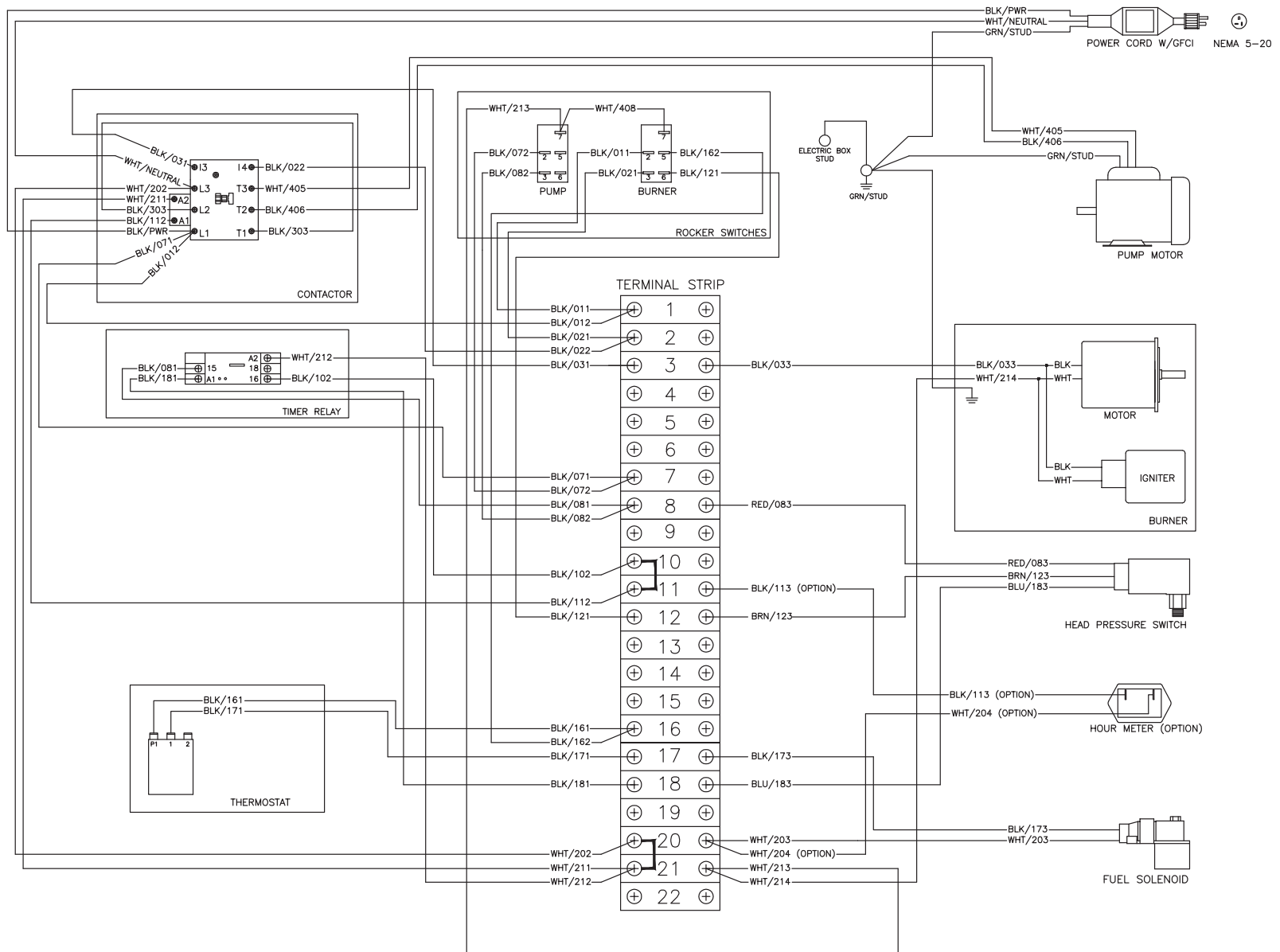
HX-0165_0167-091305-RZ

READY KIT OPTION (HX-0165 & HX-0167) (HHS-1002/1003)			
REF. #	DESCRIPTION	PART #	QTY.
1	Rocker Switch	32-0669	1
2	Contactor	32-0477	1
3	Screw	27-8835	1
4	Washer	28-0001	1
5	Din Rail *(One Foot Required)	32-0316	1
6	Terminal Strip	32-0463	1
7	Decal- Terminal Strip (See 34-9037)	N/A Sep.	1
	Decal Kit (Inc. 7)	34-9037	
*(Must Order in One Foot Lengths)			

WIRE SCHEMATIC FOR HHS-1002/1003-1E1G_A TIME DELAY OPTION (HX-0164/HX-0165/HX-0167)



WIRE DIAGRAM FOR HHS-1002/1003-1E1G_A TIME DELAY OPTION (HX-0164/HX-0165/HX-0167)

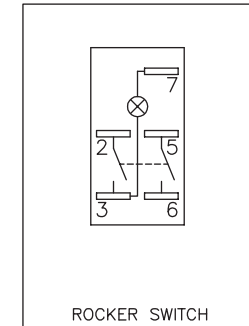
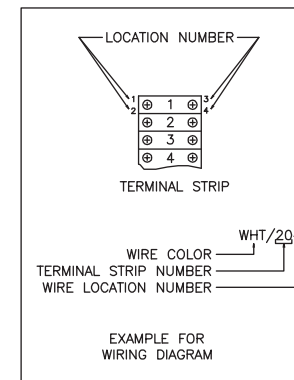
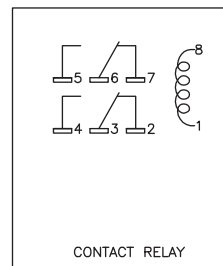
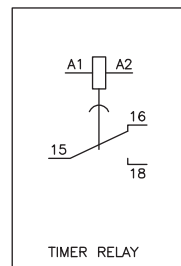
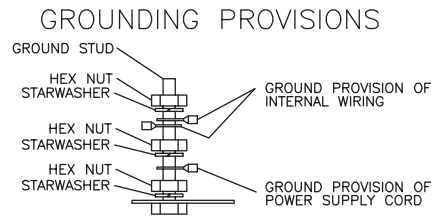
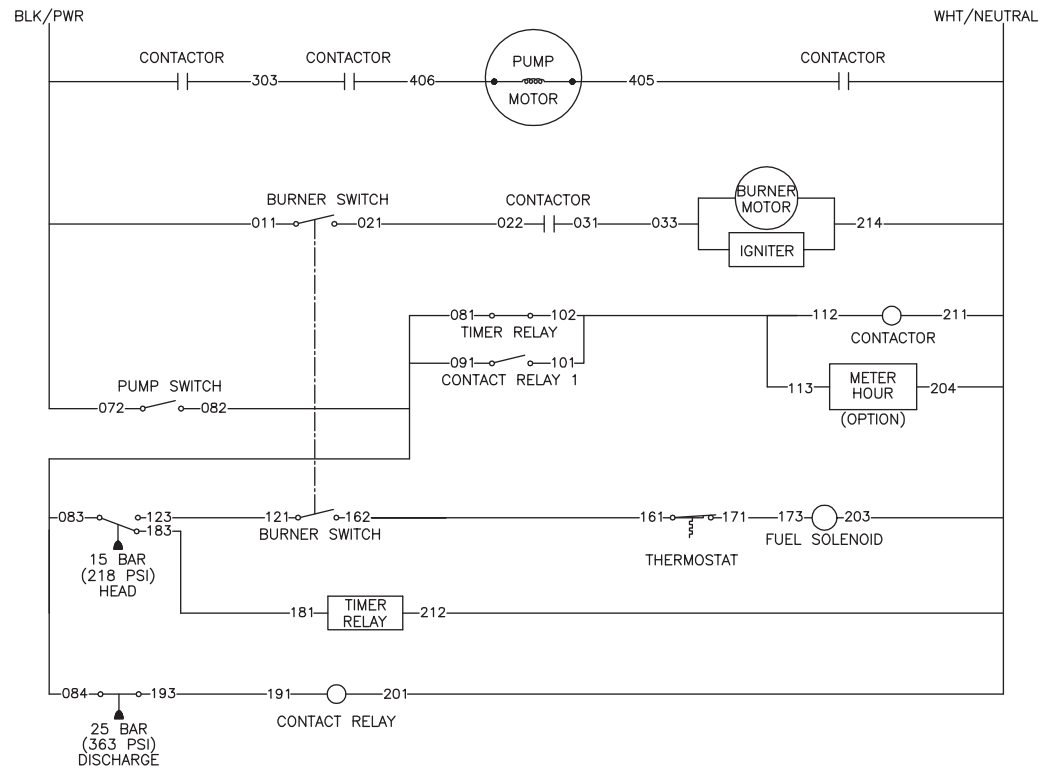


HHS-1002-1E1G_A + HX-0165 + HX-0164
HHS-1003-1E1G_A + HX-0167 + HX-0164

TIME DELAY SHUT-DOWN OPTION

OPTIONS:
HX-0161 - NO CHANGES REQUIRED
HX-0164 - WIRE AS SHOWN
HX-0166 - INSTALL JUMPER ON TERMINALS 8/9

WIRE SCHEMATIC FOR HHS-1002/1003-1E1G_A AUTO START/STOP OPTION (HX-0165/HX-0166/HX-0167)

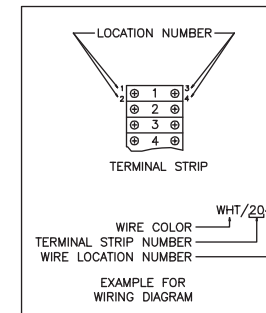
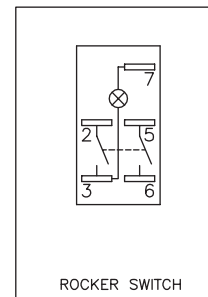
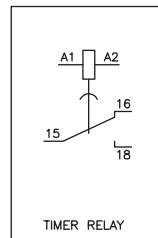
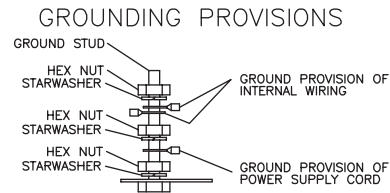
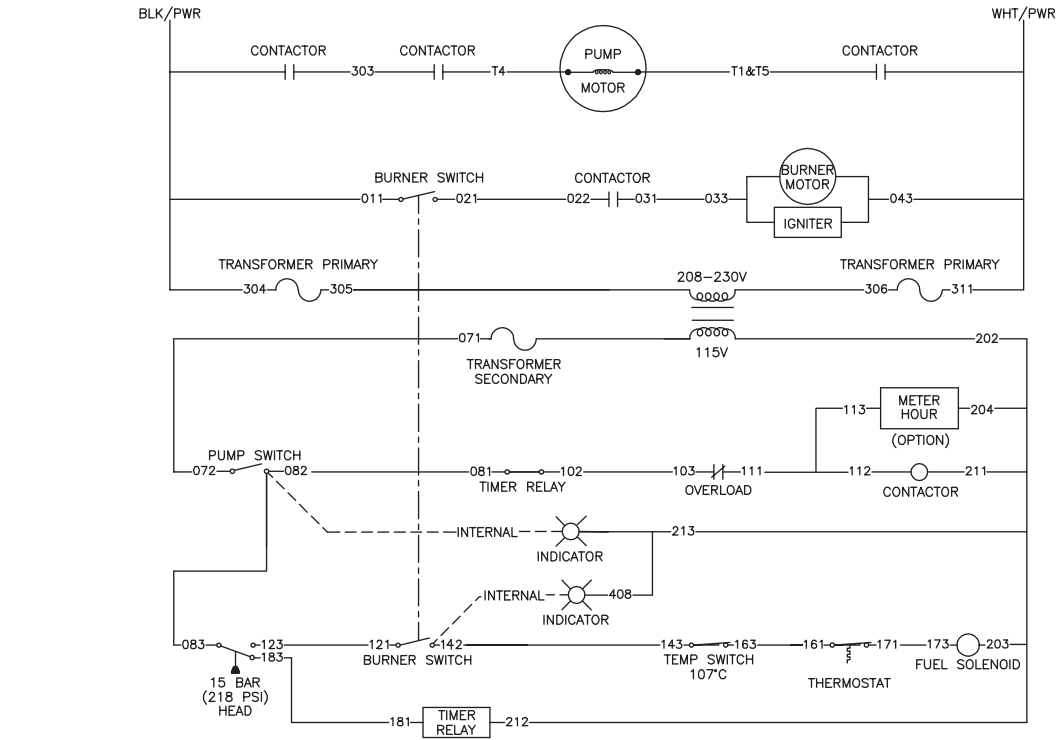


WIRE DIAGRAM HHS-1002/1003-1E1G A AUTO START/STOP OPTION-101205-RZ

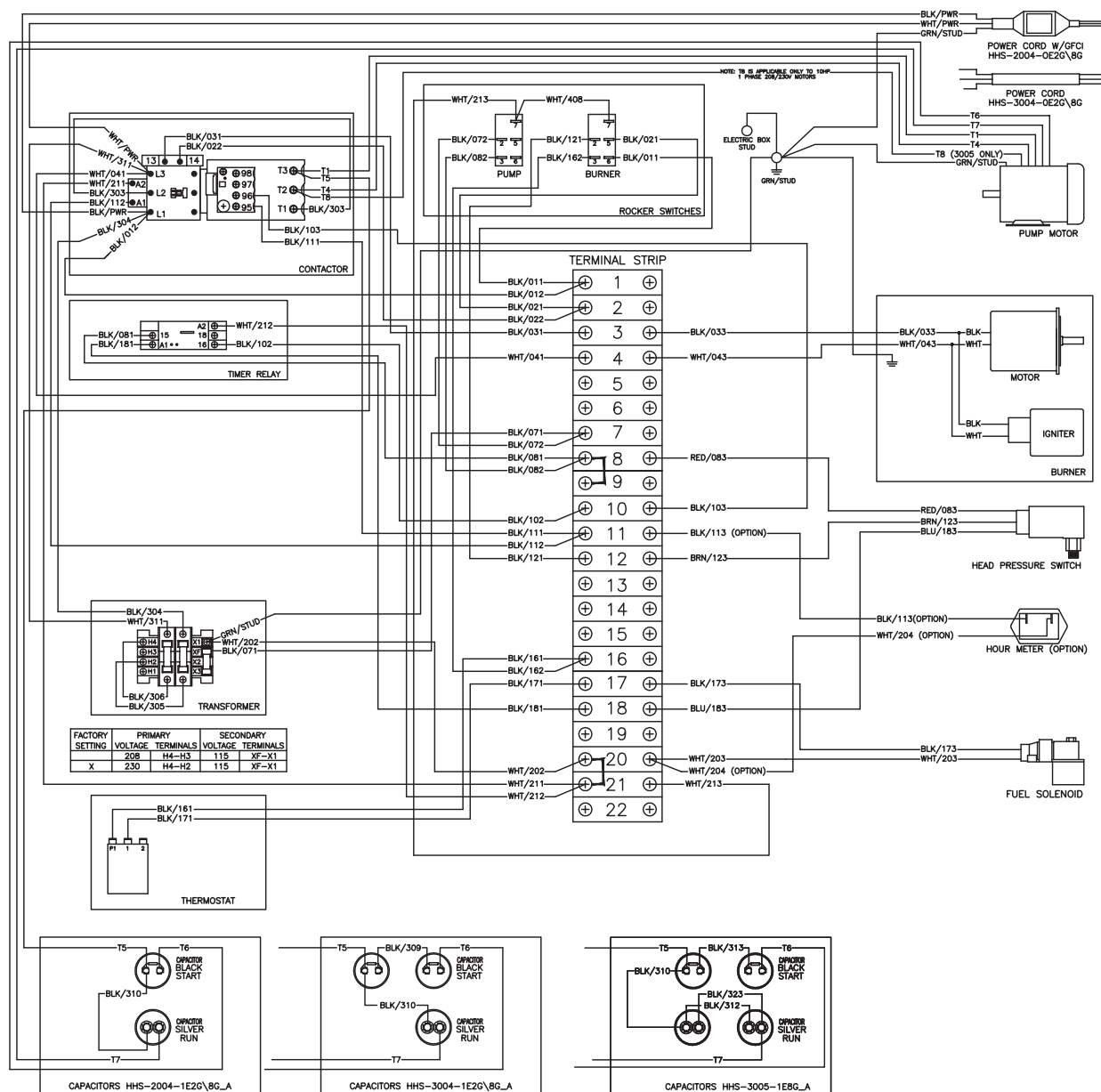


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WIRE SCHEMATIC FOR HHS-2004/3004/3005-1E2G/A & 1E8G/A TIME DELAY OPTION (HX-0164)



WIRE DIAGRAM FOR HHS-2004/3004/3005-1E2G/A & 1E8G/A TIME DELAY OPTION (HX-0164)

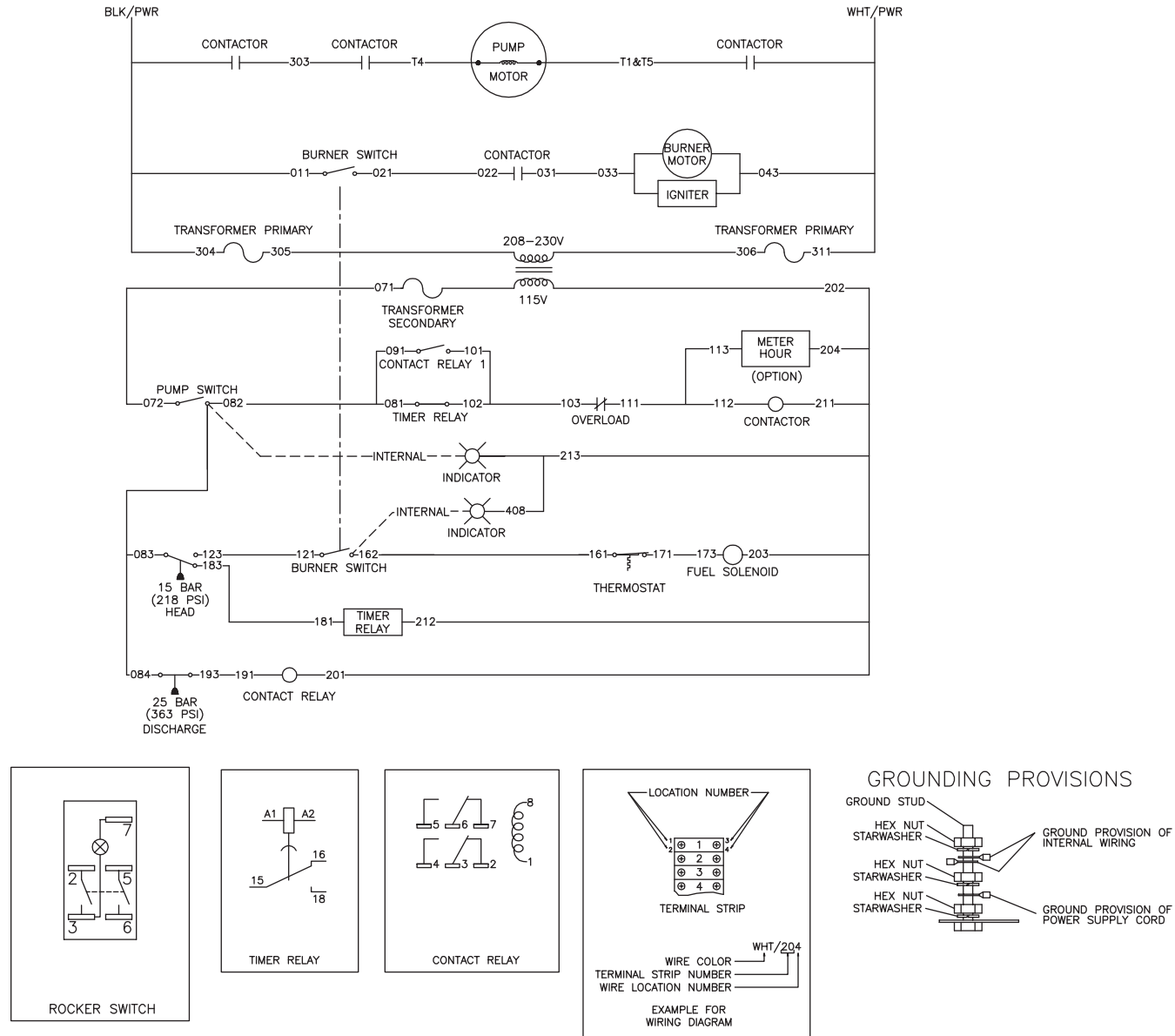


HHS-2004-1E2G_8G_A + HX-0164
 HHS-3004-1E2G_8G_A + HX-0164
 HHS-3005-1E2G_8G_A + HX-0164

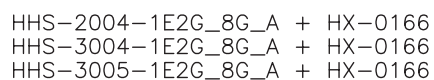
TIME DELAY SHUT-DOWN OPTION

OPTIONS:
 HX-0161 - NO CHANGES REQUIRED
 HX-0164 - DISCARD JUMPER ON TERMINALS 9/10
 HX-0166 - DISCARD JUMPER ON TERMINALS 9/10

WIRE SCHEMATIC FOR HHS-2004/3004/3005-1E2GA & 1E8G/A AUTO START/STOP OPTION (HX-0166)

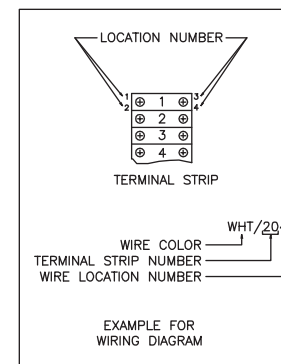
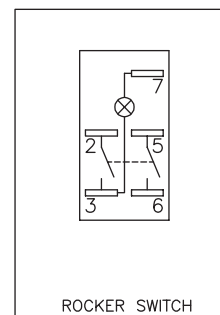
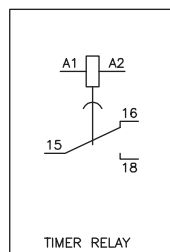
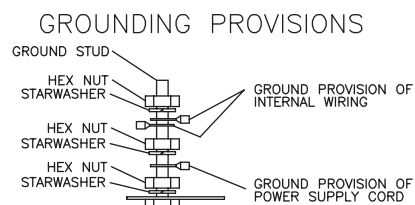
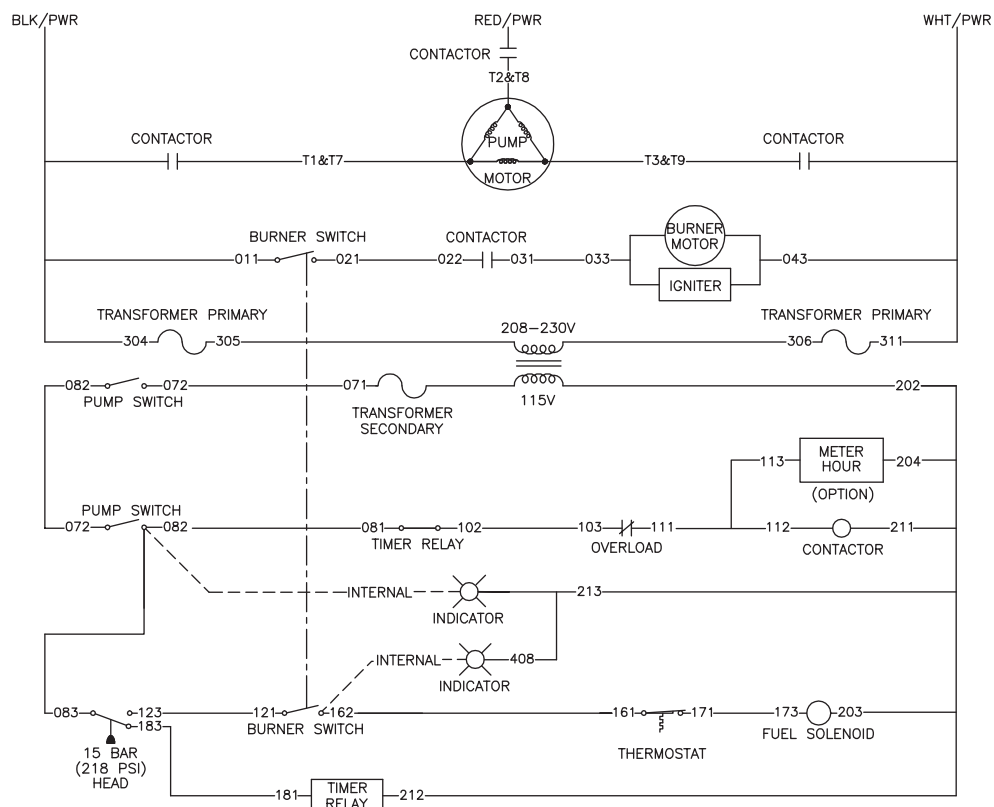


WIRE DIAGRAM HHS-2004/3004/3005-1E2GA/8GA AUTO START/STOP OPTION-101205-RZ

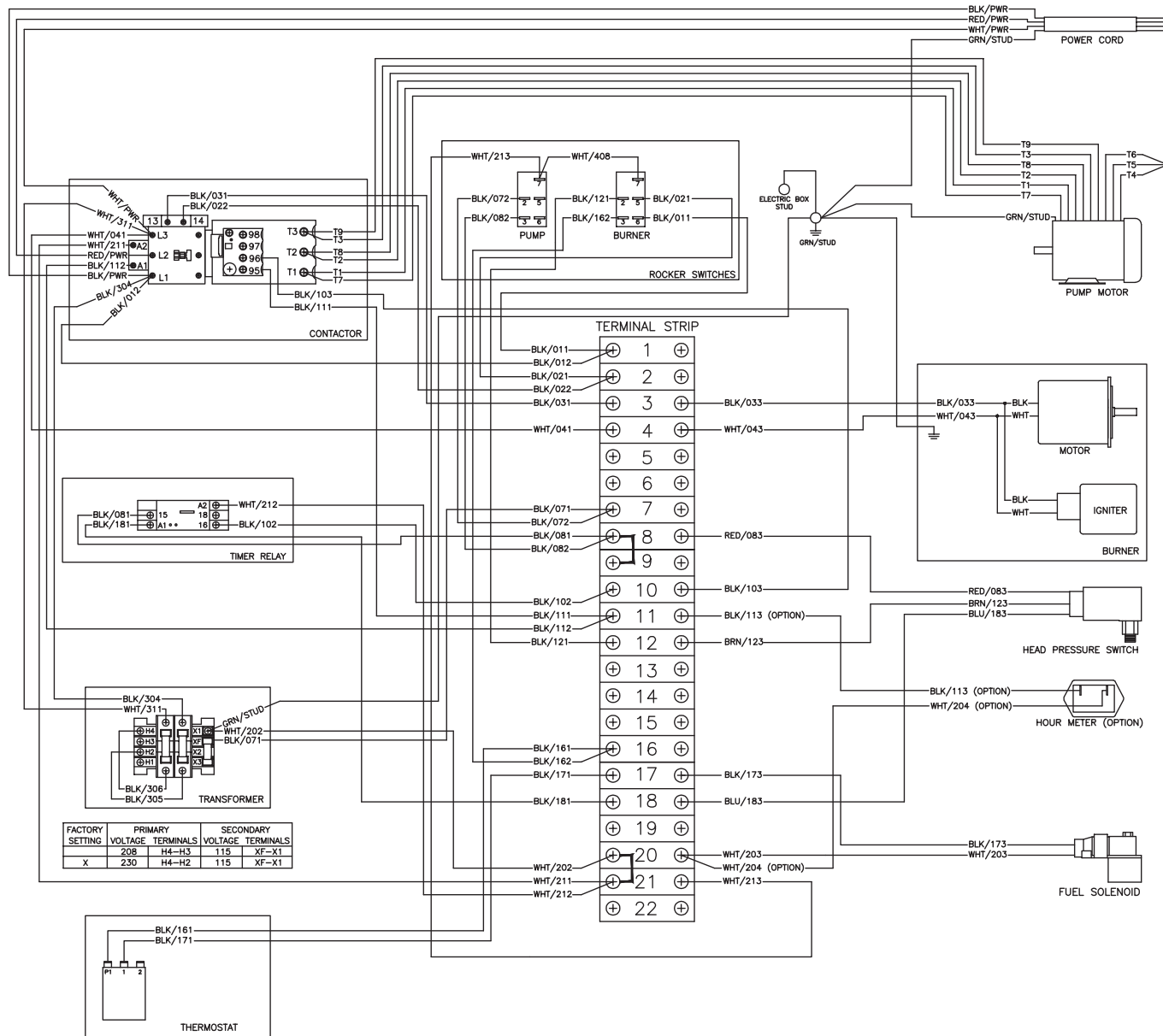


OPTIONS:
HX-0161 - NO CHANGES REQUIRED
HX-0166 - DISCARD JUMPER ON TERMINALS 9/10

WIRE SCHEMATIC FOR HHS-2004/3004/3005-1E3G/A & 1E9G/A TIME DELAY OPTION (HX-0164)



WIRE DIAGRAM FOR HHS-2004/3004/3005-1E3G/A & 1E9G/A TIME DELAY OPTION (HX-0164)

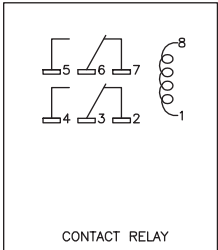
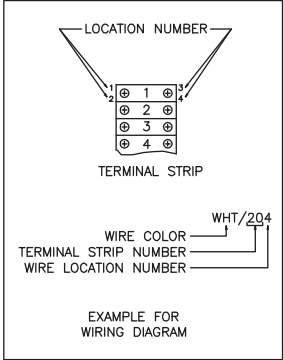
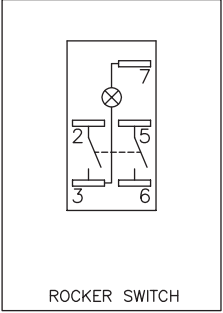
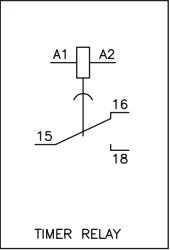
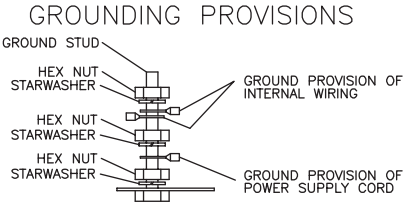
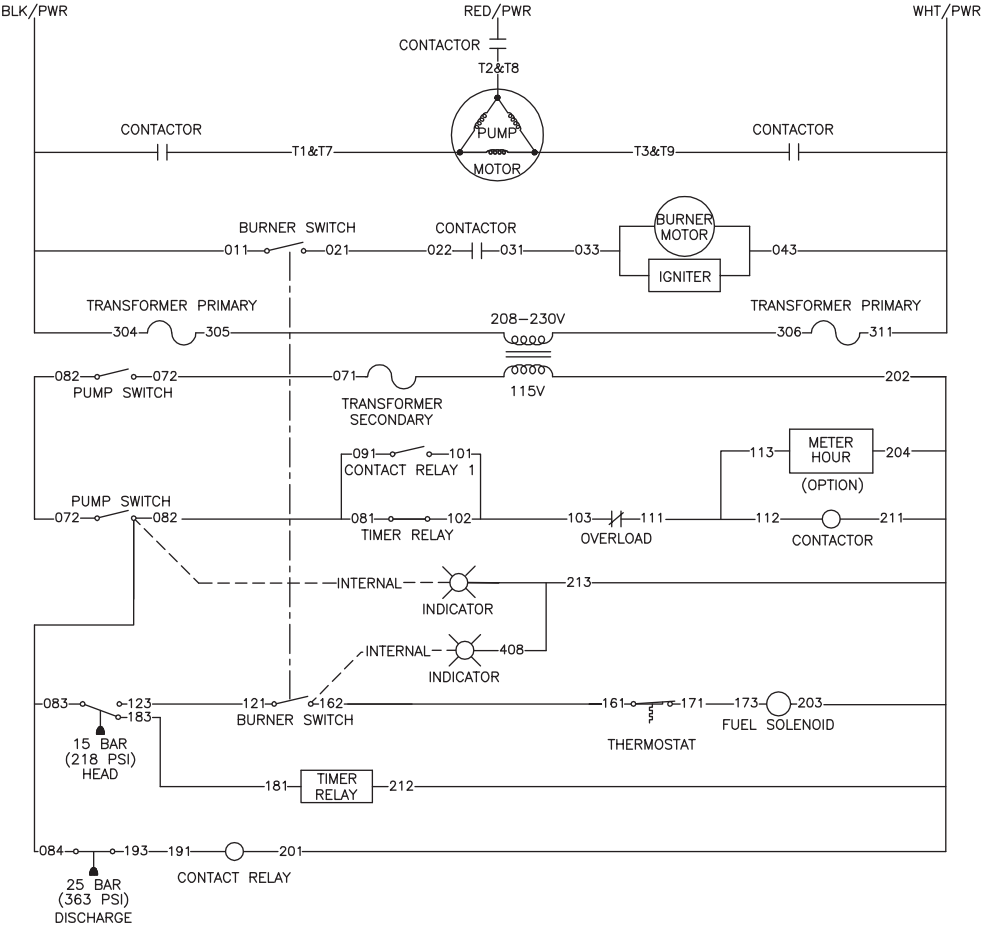


HHS-2004-1E3G_9G_A + HX-0164 TIME DELAY SHUT-DOWN OPTION
HHS-3004-1E3G_9G_A + HX-0164
HHS-3005-1E3G_9G_A + HX-0164

OPTIONS:
HX-0161 - NO CHANGES REQUIRED
HX-0164 - DISCARD JUMPER ON TERMINALS 9/10
HX-0166 - DISCARD JUMPER ON TERMINALS 9/10

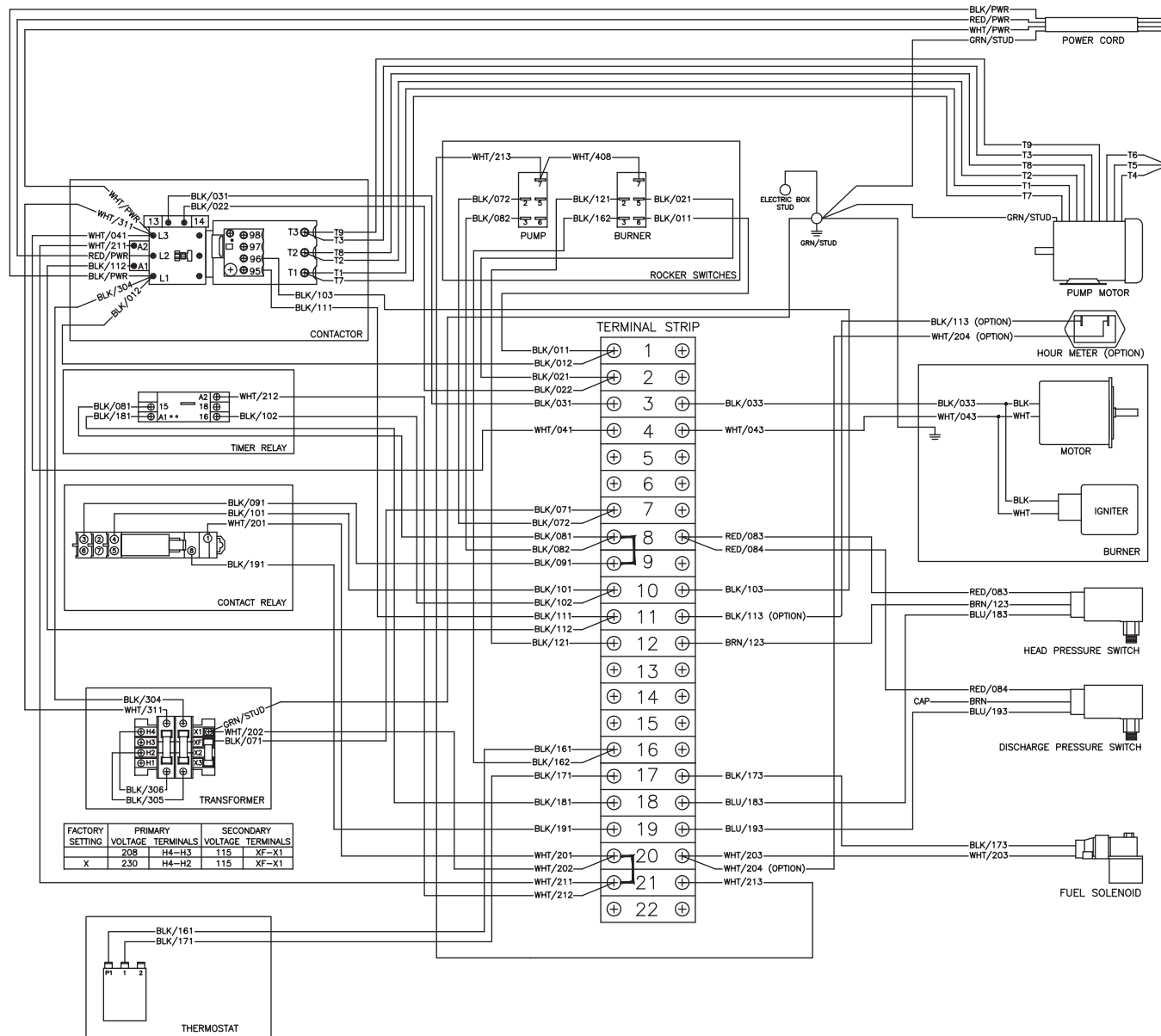
WIRE DIAGRAM HHS-2004/3004/3005-1E3G/9G_A TIME DELAY OPTION-101205-RZ

WIRE SCHEMATIC FOR HHS-2004/3004/3005-1E3G/A & 1E9G/A AUTO START/STOP OPTION (HX-0166)



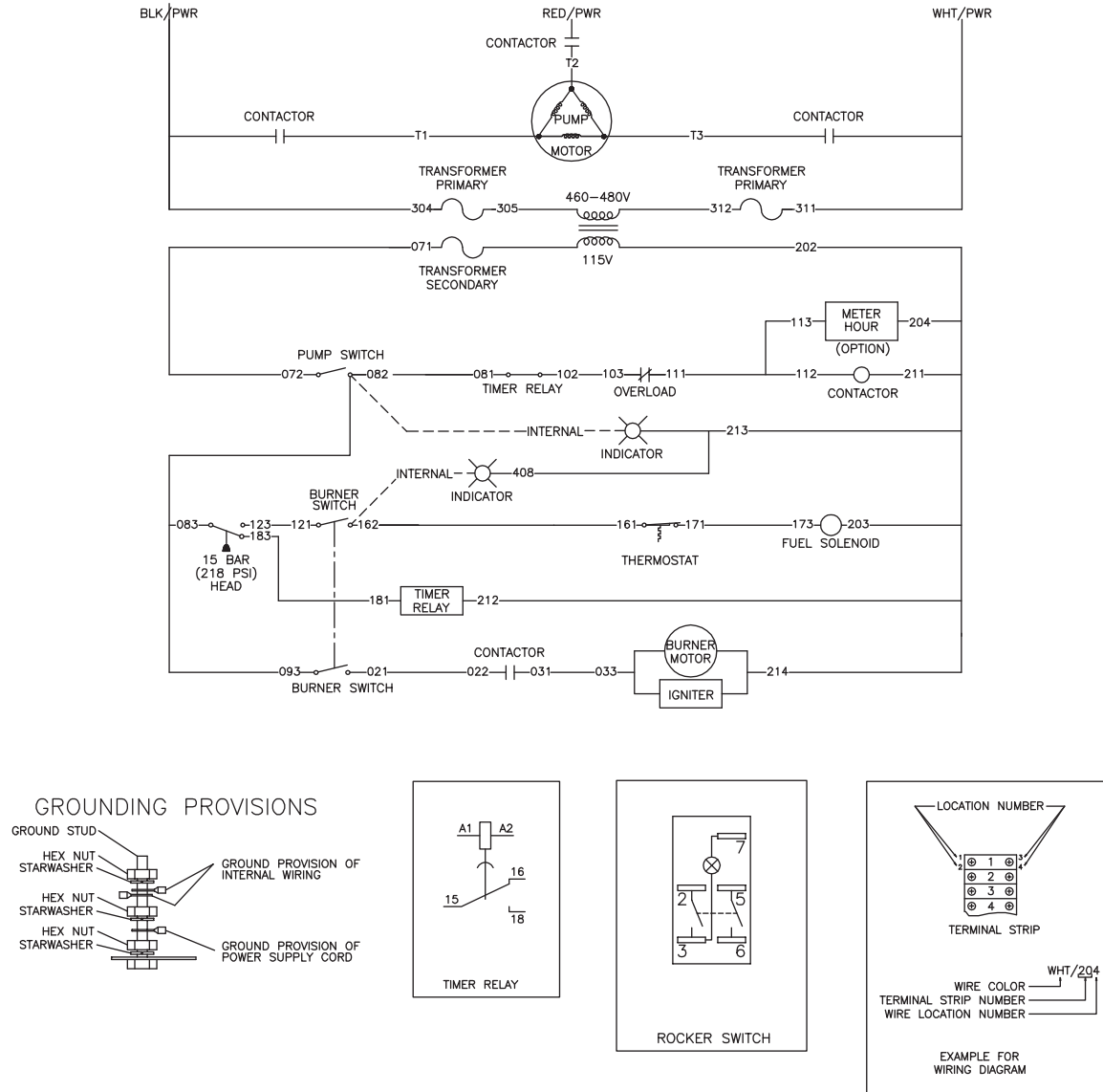
WIRE SCHEMATIC HHS-2004/3004/3005-1E3G/9G_A AUTO START/STOP OPTION-101205-RZ

WIRE DIAGRAM FOR HHS-2004/3004/3005-1E3G/A & 1E9G/A AUTO START/STOP OPTION (HX-0166)

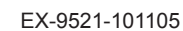


HHS-2004-1E3G_9G_A + HX-0166 AUTO START_STOP OPTION
HHS-3004-1E3G_9G_A + HX-0166
HHS-3005-1E3G_9G_A + HX-0166

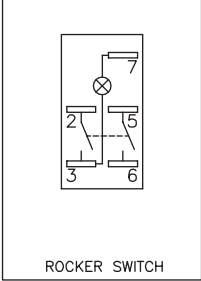
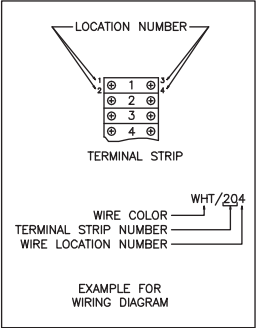
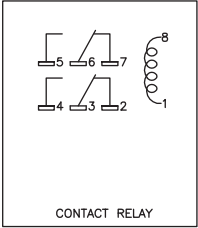
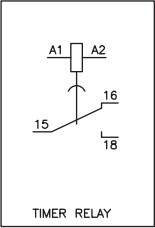
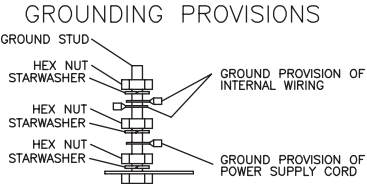
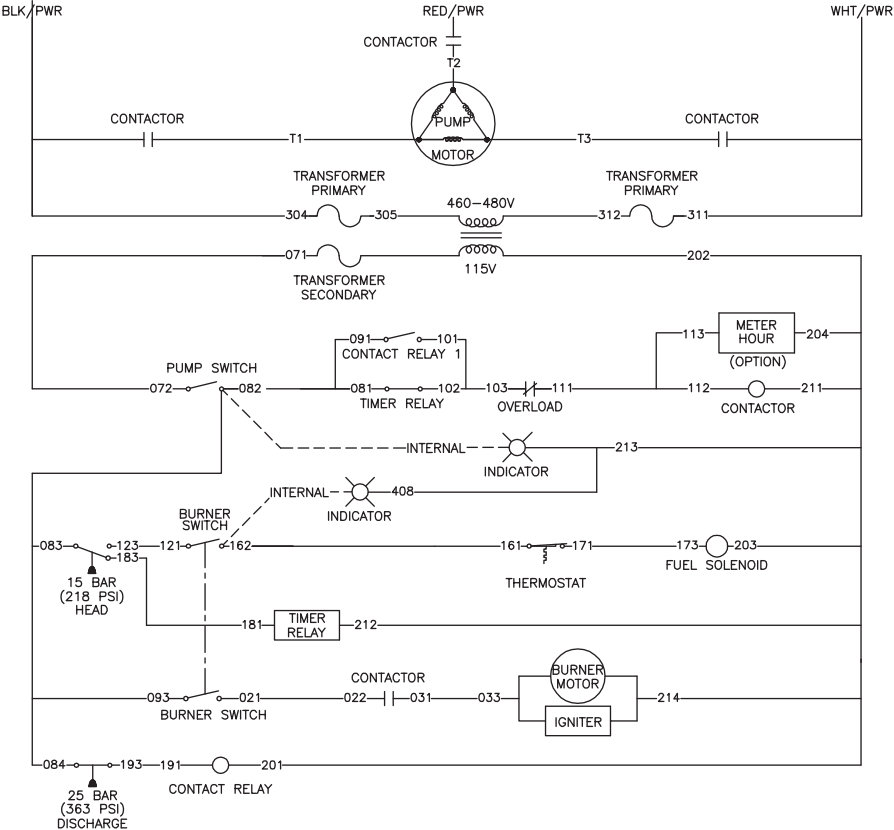
WIRE SCHEMATIC FOR HHS-2004/3004/3005-1E4G/A & 1E5G/A TIME DELAY OPTION (HX-0164)



WIRE DIAGRAM HHS-2004/3005-1E4G/5G A TIME DELAY OPTION-101205-RZ



WIRE SCHEMATIC FOR HHS-2004/3004/3005-1E4G/A & 1E5G/A AUTO START/STOP OPTION (HX-0166)



WIRE SCHEMATIC HHS-2004/3004/3005-1E4G/5G_A AUTO START/STOP OPTION-101205-RZ

WIRE DIAGRAM FOR HHS-2004/3004/3005-1E4G/5G AUTO START/STOP OPTION (HX-0166)

