XCITE SYSTEMS CORPORATION

XCITE
Owner's Manual

1001P HYDRAULIC POWER SUPPLY

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XCITE SYSTEMS CORPORATION

1001P Field Test Power Supply

1. Introduction

The Xcite 1001P Field Test Hydraulic Power Supply is designed to fulfill the power requirements for Xcite Series Controlled Force hydraulic Exciters and other actuators that do not require an average flow of more than 1.5 GPM. This power supply is completely portable and can be used in a wide variety of test environments. It has been “human-engineered” for ease of operation and maintenance. All control functions can be handled by an Xcite Master Controller, enabling a single test operator to effectifely run the entire operation.

2. Theory of Operation

2.1. Hydraulic System

A 1.5 GPM constant displacement gear pump is driven directly by a 3 HP 1425/1725 RPM 115 VAC/ 230 VAC electric motor. At 1725 RPM the pump ports a nominal 1.5 GPM which is directed to the pressure quick disconnects through a 5 micron filter. A relief valve maintains a constant 3000 psi output pressure by bleeding flow to the reservoir.

The user must be aware that when more than 1.5 GPM is demanded by the exciter head (low frequency stroke or weak structure stiffness at higher frequencies), the pump pressure will drop. For maximum force capability from the system, the stroke must be limited to ranges which allow the pump to maintain 3000 psi pressure.

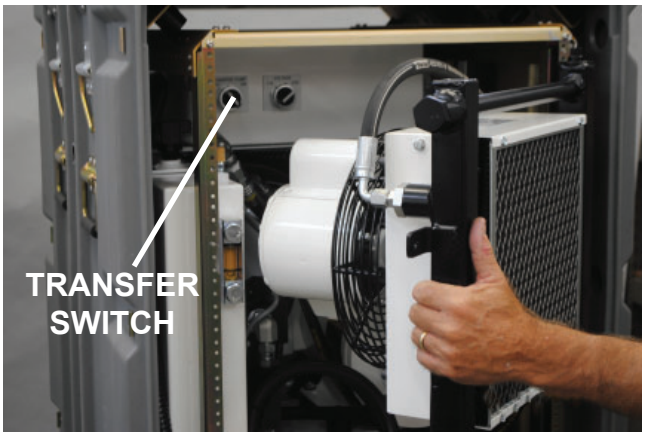
A time delayed cooling fan provides air flow across a heat exchanger which is in the return line to cool the hydraulic fluid returning from the exciter head.

For ease of filling and draining of the reservoir before transporting the power supply, a transfer pump is used. When the ball valve is in the FILL direction, fluid is pumped from the reservoir fill hose directly into the reservoir. **See Drawing B-30292-A.** In the EMPTY direction, hydraulic fluid is pumped out of the quick disconnect nipple which is removed from the top of the reservoir for the emptying operation. (See photos on the following pages.)

Before using the Hydraulic Power Supply for the first time, the reservoir must be filled with approximately 4 gallons (15 liters) of Mobile DTE hydraulic fluid. See next page for filling instructions.

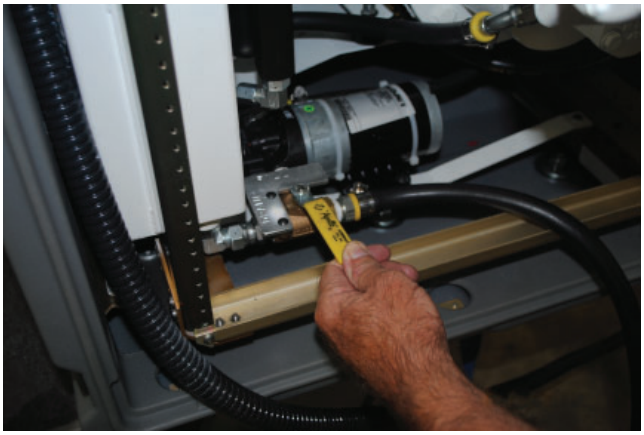
Access to Rear of 1001P Mini Hydraulic Power Supply for Oil Filling and Draining

Remove screw holding fan door.



Open fan door and swing out.

Oil Fill Procedure

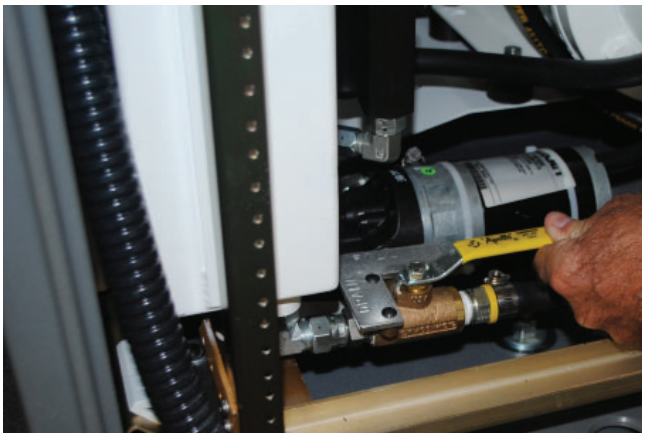


Set FILL/ DRAIN value to fill position.

Insert fill hose into oil container and turn TRANSFER SWITCH to "ON" located on Control Box #2.

Oil Drain Procedure

Disconnect oil return line from reservoir by pulling quick-disconnect collar towards oil reservoir and hose out of connector.



Set FILL/ DRAIN value to drain position.

Insert return line into oil collection container and turn TRANSFER SWITCH to "ON" located on Control Box #2. Run pump until oil reservoir is empty.

2.2. Electrical Control System

The Electrical Control System for the 1001P Hydraulic Power Supply is packaged in two enclosures mounted inside the pump cabinet. The first enclosure is accessible from the front panel of the Power Supply by removing four screws and is called “Electrical Control Box #1”. **See Drawing B-30294-A** This enclosure contains the fuses for the system designated as:

- 107FU - 4.0 Amp (Fan Motor Fuse)
- 108AFU - 6.0 Amp (115 Volt Operation Fuse)
- 108BFU - 3.0 Amp (230 Volt Operation Fuse)

The second enclosure is mounted near the top of the Power Supply and is only accessible by removing the entire pump assembly from the cabinet. This enclosure is called “Electrical Control Box #2” and contains the motor starter, control relays and control transformer. **See Drawing B-30295-A.**

During operation, either 115 VAC or 230 VAC single phase power is applied to the main contacts of the pump motor starter; the time delay relay of the cooling fan and transformer T1. The voltage selector switch (107PB) selects operation of the entire 1001P Hydraulic Power Supply from either 115 VAC or 230 VAC, 60 Hz. **Drawing B-30294 and B-30295** depicts the voltage selector switch in the 230 Volt position. In this position, voltage is applied to the primary coil of transformer T1 and is “stepped” down to 115 VA for operation of all control relays and the Xcite Master Controller.

When the voltage selector switch 107PB is switched to the 115V position, 115VAC power is applied directly to the control relays and the Xcite Master Controller. The Pump Motor (MTR1) and the Fan Motor (MTR2) are automatically converted to 115V operation by switching the windings of MTR1 and MRT2 with control relays 111CR and 112CR respectively.

The 1001P Hydraulic Power Supply is started when the START button on the Xcite Master Controller is depressed. 115V control voltage is applied back through J1-D to the “Remote Emergency Stop Connector” (RES); the “Emergency Stop” button and then to the coils of motor starter control relays 115M and 116M. In order for voltage to reach these control relays, the oil level/ temperature and filter switches must all be closed. This means there is sufficient oil in the reservoir, the oil temperature is less than 150° F and the oil filter is clean. If these conditions are all met, the control relays 115M and 116M are energized and MTR1 and MTR2 are started.

Pressing the STOP button on the pump de-energizes the control relays 115M and 116M and the unit shuts down. Automatic shutdown will also occur if the oil level, temperature or filter switch is momentarily opened.

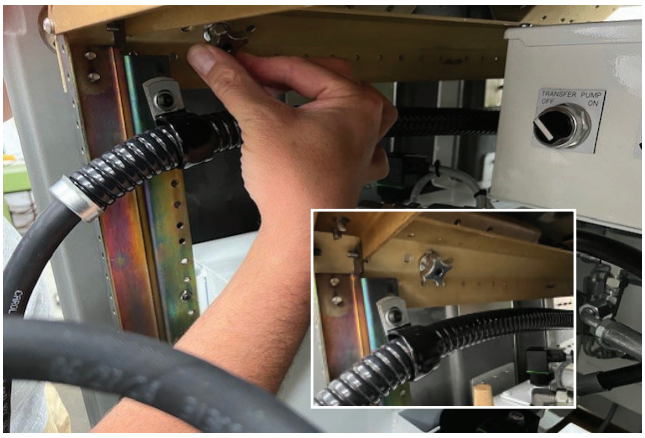
3. Description

The entire power supply is shock-mounted in a roto-molded plastic instrument style enclosure. Interconnections are easily identified by call-outs on the panels. A power cord is supplied as standard equipment. **See Drawings B-30291-A, B-30292-A, B-30293-A, B-30294-A, B-30295-A** at the end of this section. Major components are:

- A 4 gallon oil reservoir
- Motor
- Constant displacement pump
- A 2-micron filter
- Air/ heat exchanger
- Oil transfer pump
- (2) Electrical control boxes

Oil Drain Procedure

Remove locking pin from lower right side on the front of the HPS to release unit to be pulled out of cabinet.



Remove the locking screw on either side of the upper frame as shown.

Pull unit out of cabinet. CAUTION - unit is front heavy and will tip over if not supported as shown.

Remove top cover to gain access to Control Box #2 internal components.

Along with these major components are a number of controls and condition indicators giving continuous monitoring of supply conditions.

3.1. Pressure Gauge
This gauge indicates the supply pressure at the pump outlet. With no flow, the gauge should normally read 3000 to 3100 psi.

3.2. Power Indicator Lamp
This lamp is illuminated at all times when the electrical power cord is connected to the power outlet.

3.3. Emergency Stop Switch and Remote Emergency Stop Connector
This is a push to stop switch that de-energizes the pump motor starter when depressed. This switch may be used to halt the pump in place of the STOP button on the Xcite Master Controller, if necessary. It should be noted that the Emergency Stop Switch **MUST** be pulled out for the 1001P Power Supply to operate. If it is depressed (stays depressed once pushed), the unit will **NOT** operate.

A “Remote Emergency Stop” connector (RES) is also provided to allow the user to wire a remote SPST switch to stop the Power Supply. A mating connector for wiring the remote emergency stop is included.

3.4. Hydraulic Supply and Return Connectors
These are male and female quick-disconnect fittings. The female fitting goes to the supply line; the male fitting goes to the return line.

3.5. HPC Control Connector
This is a 6-pin Amphenol connector used to interface the pump to the Master Controller.

3.6. Oil Level/ Temperature Gauge
This gauge indicates the level of oil in the reservoir. It is mounted directly to the oil reservoir. The system should not be operated with less than 3.5 gallons of oil. An oil temperature gauge is also supplied which measures the temperature of the oil in the reservoir.

3.7. Voltage Selector Switch
This switch allows the 1001P Hydraulic Power Supply to be used with either 115 VAC or 230 VAC 50/60 Hz power, single phase. **See 2.2. and B-30295-A.**

3.8. Fuses

All replaceable fuses are mounted in Electrical Box #1 on the front panel of the Power Supply. **See 2.2.** for appropriate ratings and **Drawing B-30294-A** for location.

3.9. Oil Level/ Temperature Switches

These switches are located inside the reservoir. One switch shuts down the unit if the oil level is too low (below 3.1 gallons) and the other switch shuts down the unit if the oil temperature exceeds 140° F. Both switches have red indicator lights on the front panel to alert for these conditions.

3.10. Filter Switch

The filter switch is mounted on the filter assembly, located at the output of the Hydraulic Pump Assembly. If the differential pressure across the filter element exceeds 50 psi, the switch is activated and the red filter light illuminates. If this occurs, it generally indicates that the filter element is dirty and needs replaced.

4. Preliminary to Operation

Several preparatory steps must be taken prior to operating the unit.

4.1. Remove the front and rear cabinet covers.

4.2. Turn the voltage selector switch to the correct position for the line voltage being used. (Nominally 220V) If the 110 V range is selected, it si also necessary to connect a jumper wire located in “Electrical Control Box #2”. **See Drawing B-30295-A** and photo below.

Connect Jumper “X2” at transformer for 110V operation.

4.3. Connect the hydraulic supply and return lines to the front panel quick-disconnects.

4.4. Connect the power cord to the power source, making sure the power indicator lamp is lit. Use black and white wires for voltage, green for ground. The red wire is NOT used.

NOTE: The unit should NEVER be operated with the hoses coiled, nor should anything be set on the hoses, nor should they be driven over.

WARNING

Oil should not be mixed. If the type of oil is changed, purge the system.

4.5. Check the level of the oil using the sight gauge on the back of the reservoir. The oil reservoir should be completely filled with Mobil DTE-24 or DTE-25. If necessary, fill the reservoir using the transfer pump. **See 2.1.**

4.6. Connect the Pump Control Cable (from the Master Controller) to the connector on the front panel.

4.7. Make sure the front and rear of the cabinet are not obstructed by anything that would restrict the flow of air into and out of the cabinet.

4.8. Press the PUMP START button on the Master Controller to start the pump. To stop the unit, press the PUMP STOP button on the Master Controller or the EMERGENCY STOP button on the pump's front panel.

4.9. Check the pressure gauge and verify the pump is operating at 3000 to 3200 psi. Failure to comply with the above can cause severe damage to the servo-valve, exciter head, and pump. All warranties are invalidated if damage occurs due to overpressure.

4.10. In the event the hydraulic power supply will not start, check for oil over temperature, or low oil level; or if the power supply starts but will not run continuously, the filter element is clogged and needs replacement.

5. Care and Maintenance

5.1. General

The pump requires little regularly scheduled maintenance. However, you should keep the unit reasonably clean and should observe the following precautions.

5.1.1. Keep the quick-disconnect dust covers installed whenever the unit is not in use.

5.1.2. Always clean the quick-disconnects before making any connections

5.1.3. Make sure the heat exchanger fan is not blocked during operation.

The only periodic maintenance required is to change the oil every 2000 hours and change the filter whenever it becomes clogged. The filter unit consists of a screw-off canister and replaceable filter element.

5.2. Field Test Reservoir Draining/ Refilling Procedure

This is a closed-loop system. If general cleanliness methods are followed, the filter should not require replacement for long periods of time. Oil should be changed every 2000 hours of pump operation.

If the supply is to be transported such that the cabinet could be tipped over, the oil should be drained from the reservoir. See draining and filling procedures in **Section 2.1.**

5.3. Change Oil Filter

Unscrew the bottom of the container and change the cartridge.
Use Parker Filter #93357GQ

6. Trouble Shooting

This section lists the most common problems encountered, as well as their probable causes. If the problem can't be readily corrected, contact your Xcite Customer Service Representative.

Problem	Probably Cause
Power lamp is not lit when unit is plugged in.	Check power source.
Fuses blown.	Low line voltage or motor malfunction.
Low hydraulic pressure (less than 3000 psi)	Excessive flow beyond 1.5 GPM Defective relief valve.

7. Specifications

Dimensions	
Height	37.5”
Width	27.0”
Depth	36.5”
Weight (without oil)	430 lbs
Cooling	Air (heat exchanger with fan)
Maximum Ambient Air Temp	100° F
Power Requirements for Circuit Mains	115 VAC, 40 Amp, single-phase 230 VAC, 25 Amp, single-phase
Oil Type	Mobile DTE-24 or DTE-25 (DO NOT MIX OIL TYPES)
Oil Required in Reservoir	Approximately 4 gallons (15 liters)
Operating Pressure	3300 psi +/- 200 psi
Pressure Control	Spring operated relief valve
Pump	1.5 GPM constant displacement at 1725 rpm @ 60Hz 1.2 GPM constant displacement at 1425 @50Hz
Motor (Full Load)	3 hp, single phase; 115 VAC @ 32 Amps: 220 VAC @ 16 Amps; 1725 rpm; 184 TC frame size
Radiated Noise (at 3 feet from cabinet)	Front - 77 dBA Side - 72 dBA Rear - 80 dBA

8. Drawings

Assembly 1001P	B-30291-A (2 sheets)
Hydraulic System Schematic	B-30292-A (2 sheets)
Electrical Schematic	B-30293-A (2 sheets)
Electrical Control Box #1	B-30294-A
Electrical Control Box #2	B-30295-A

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
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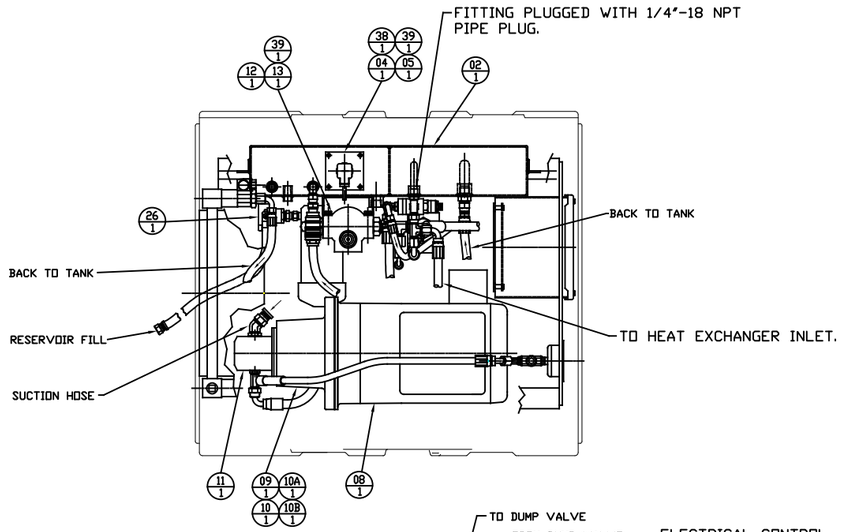
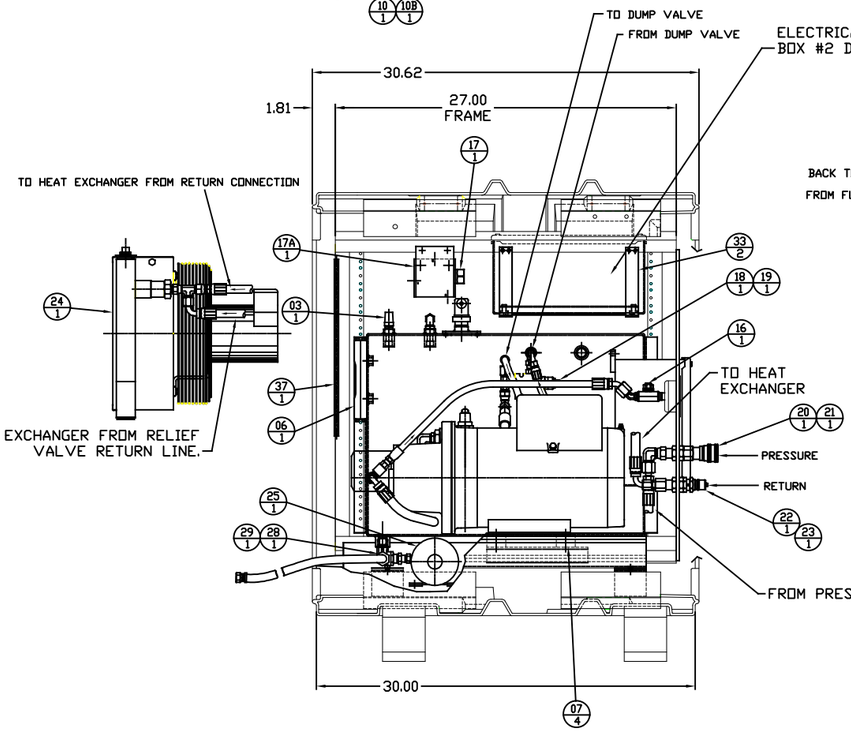
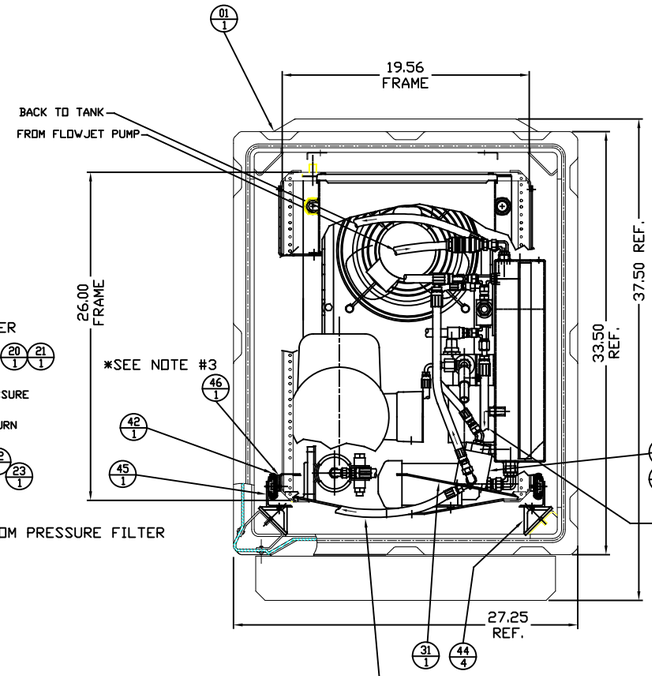
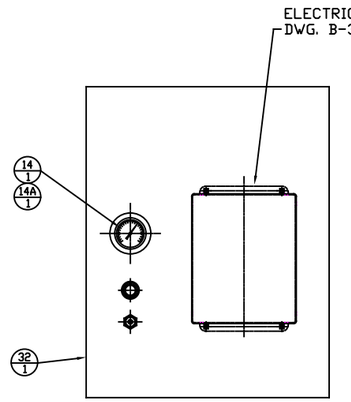




NOTE: ADC-19 AIR/OIL HEAT EXCHANGER NOT SHOWN ATTACHED TO CASE FRAME IN FRONT VIEW.





NOTE: HOFFMAN ENCLOSURE & PLATE NOT SHOWN ATTACHED TO CASE FRAME IN SIDE VIEW.

NOTES.

1): FRAME & SLIDE (ITEM #40) HAS 18" OF TRAVEL.
2): A LOCKING PIN IS INSERTED IN ITEM #41 TO CAPTURE THE POWER UNIT.
3): PAINT FACE OF FRONT PANEL (ITEM #32).
4): NOT ALL ITEMS SHOWN IN ALL VIEWS FOR CLARITY.
5): MODIFY ISOLATION MOUNTS SHIPPED WITH CASE TO LIMIT RACKING OF UNIT INSIDE CASE.

DRAWING PKG.:

ASSEMBLY DWG. B-30291 REV. A SHT'S. 1 & 2 (D012597-ASY-00 SHT'S. 1 & 2)
HYDRAULIC SCHEMATIC DWG. B-30292 REV. A SHT. 1 (D012597-HYD-00 SHT. 1)
PARTS LIST (MECHANICAL) DWG. B-30292 REV. A SHT. 2 (D012597-HYD-00 SHT. 2)
ELECTRICAL SCHEMATIC DWG. B-30293 REV. A SHT. 1 (D012597-ELE-00 SHT. 1)
PARTS LIST (ELECTRICAL) DWG. B-30293 REV. A SHT. 2 (D012597-ELE-00 SHT. 2)
ELECTRICAL CONTROL BOX #1 DWG. B-30294 REV. A (D012597-ELE-01)
ELECTRICAL CONTROL BOX #2 DWG. B-30295 REV. A (D012597-ELE-02)

D012597-ASY-00

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	REF. JOB 1005597		
	CUSTOMER PART# .		
	CUSTOMER DWG. .		
AutoCAD LT 2006			
THIRD ANGLE PROJECTION			JOB# 1033857 · SIZE B · DWG NO. 30291 · REV A
			CUSTOMER XCITE SYSTEMS · SCALE 1/4 · SHEET 1 OF 2

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
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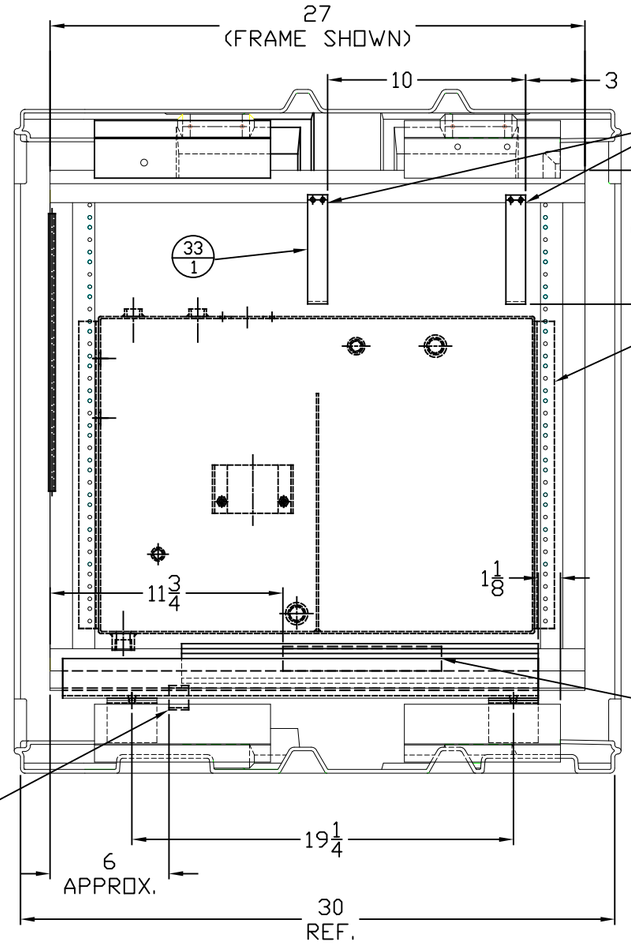
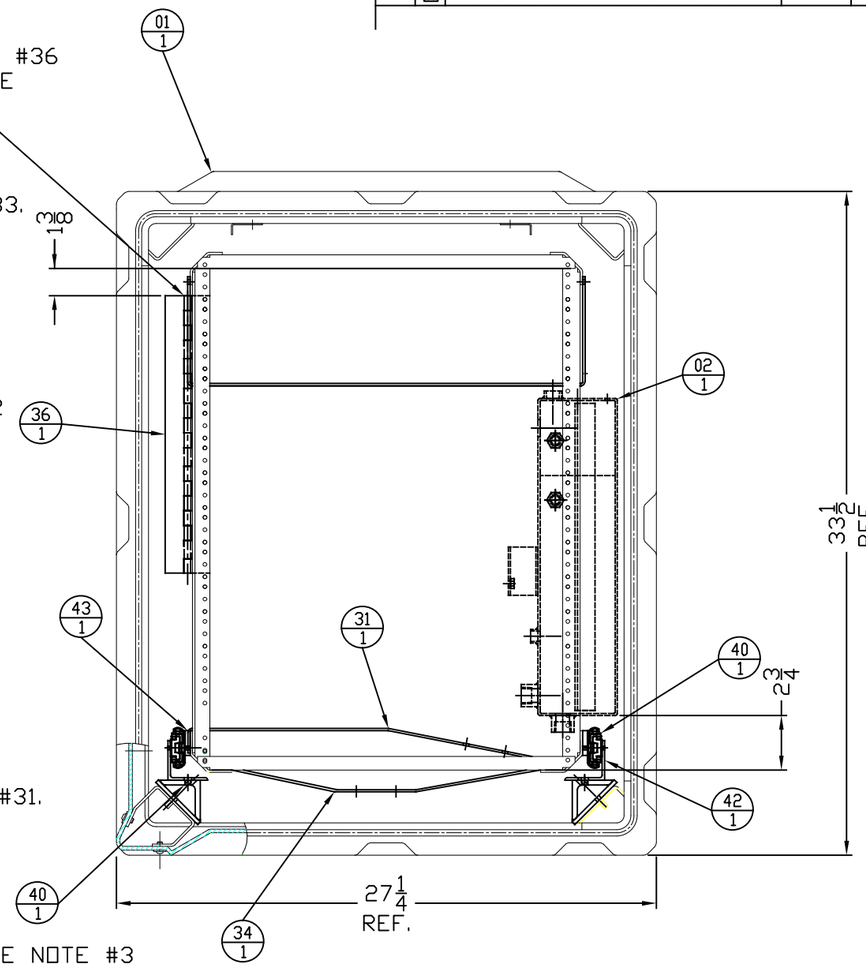


LOCATE AT LEAST (2) HOLES PER SIDE ON ITEM #33.
DR.Ø9/32 THRU HOLES IN FRAME ANGLE
SECURE W/ 1/4-20 X 3/8" B.H.C.S.

LOCATE AT LEAST (5) HOLES PER SIDE ON ITEM #2
DR.Ø7/32 THRU HOLES IN 1 X 1 ANGLE BRACKET
SECURE W/ 10-32 X 3/8" B.H.C.S.

LOCATE AT LEAST (5) HOLES ON ITEM #36
DR.Ø7/32 THRU HOLES IN FRAME ANGLE
SECURE W/ 10-32 X 3/8" B.H.C.S.



*SEE NOTE #3

LOCATE AT LEAST (2) HOLES PER SIDE ON ITEM #31.
DR.Ø9/32 THRU HOLES IN FRAME ANGLE
SECURE W/ 1/4-20 X 3/8" B.H.C.S.

LOCATE AT LEAST (1) HOLE PER SIDE ON ITEM #34
DR.Ø7/32 THRU HOLES IN FAME ANGLE
SECURE W/ 10-32 X 3/8" B.H.C.S.

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D012597-ASY-00

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		CUSTOMER PART# .	
		CUSTOMER DWG# .	

XCITE SYSTEMS CORPORATION

DRAWING TITLE
ASSEMBLY, 1001P HYD. POWER SUPPLY

PRODUCTION ORDER #	SIZE	DWG NO.	REV
1033857	B	30291	A

CUSTOMER XCITE SYSTEMS | SCALE 1/4 | SHEET 2 OF 2

REVISIONS				
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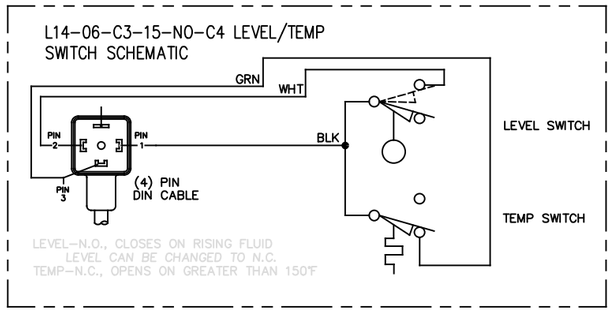

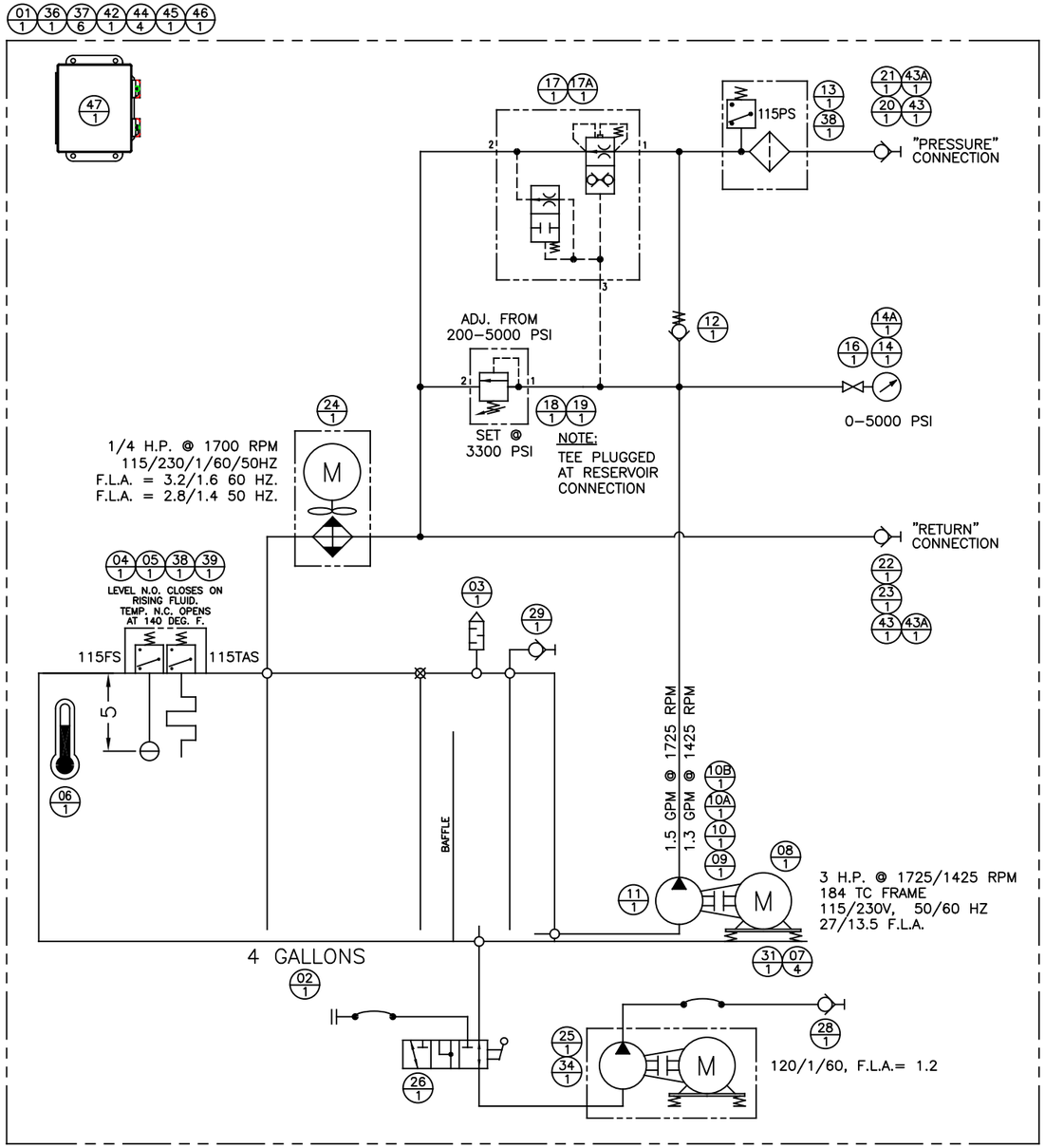

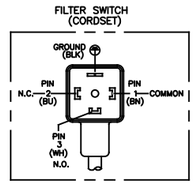

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D012597-HYD-00 SHT. 1

TRIAD ITEM I.D. # ESD-130-012597-24

THIS DRAWING IS TO BE INTERPRETED USING THE LATEST REVISION OF ANSI/ASME Y14 DRAFTING STANDARDS

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED ALL DIMS ARE IN INCHES TOLERANCES ARE:
DECIMAL 0.XX ± .01
0.XXX ± .005
0.XXXX ± .0005
FRACTIONS ± 1/32
ANGULAR ± 1°
BREAK SHARP CORNERS

AutoCAD LT 2006

DRAWN	JAS	DATE	10-21-24
RELESD	.	DATE	.
QUOTE #	ESD24012597		
REF. DWG.	12945-R00-S01		
REF. JOB	1005597		
CUSTOMER PART#	.		
CUSTOMER DWG#	.		

XCITE SYSTEMS CORPORATION

DRAWING TITLE
SCHEMATIC, HYDRAULIC 1001P HYD. POWER SUPPLY

PRODUCTION ORDER #	SIZE	DWG NO.	REV
1033857	B	30292	A

CUSTOMER XCITE SYSTEMS | SCALE NONE | SHEET 1 OF 2

ITEM	DESCRIPTION	PART NUMBER	MFG.	QTY.
01	CASE	ZDR143027-0303-GR03PV0000LR	ZERO MFG.	1
02	RESERVOIR, 4 GALLON	11885-R03-S01	TRIAD	1
03	MUFFLER, 3/8" NPT	EM37	PARKER	1
04	SWITCH, LEVEL/TEMPERATURE	L14-06-C3-15-NO-C4	WHITMAN	1
05	PLATE, LEVEL/TEMPERATURE SWICH MOUNTING	D-5013-A-01	TRIAD	1
06	GAUGE, 3" SIGHT LEVEL WITH THERMOMETER	G615-03-A-1	LDI/VESCOR	1
07	MOUNT, DAMPENING WITH STUD & INSERT	93945K62	McMASTER	4
08	MOTOR, ELECTRIC, 3 H.P. @ 1800 RPM. ODP "C"	MACCUSTOMMOTOR Q1101011141-10	BALDOR	1
	FACE WITH BASE, 184TC FRAME,			
	120-220/1/50-60 HZ.			
09	ADAPTOR, MOTOR/PUMP MOUNTING	2196	LDI/VESCOR	1
10	HUB. MOTOR COUPLING	M10010408	MAGNALOY	1
10A	INSET, COUPLING	M170N6	MAGNALOY	1
10B	HUB, PUMP COUPLING	M10001604	MAGNALOY	1
11	PUMP, FIXED DISPLACEMENT GEAR, (.21 IN^3/REV.)	GHP1A-D-5	MARZOCCHI	1
12	VALVE, IN-LINE CHECK	C820S65	PARKER	1
13	FILTER, PRESSURE (ELEMENT #933576Q)	15P102QXBE2KS122	PARKER	1
14	GAUGE, 2-1/2" DIA., 5000 PSI PRESSURE	25-310-SST-5000-PSI/BAR-BT8	NOSHOK	1
14A	FLANGE, PRESSURE GAUGE	25-3-CHROME-FF	NOSHOK	1
15				
16	SNUBBER, GAUGE	NSAB-KXV-HH	SUN	1
17	VALVE, CARTRIDGE 120:1 RATIO PILOT TO CLOSE CHECK	COFO-XDN	SUN	1
17A	BODY, CARTRIDGE VALVE IN-LINE	BCI	SUN	1
18	VALVE, CARTRIDGE, RELIEF (ADJ. 300-5000 PSI)	RAH101S50	PARKER	1
19	BODY, CARTRIDGE VALVE, IN-LINE	B10-2-8T	PARKER	1
20	COUPLER, QUICK CONNECT	H3-62-T8	PARKER	1
21	PLUG, Q.C. DUST	H3-65	PARKER	1
22	NIPPLE, QUICK COUPLER	H3-63-T8	PARKER	1
23	CAP, QUICK CONNECT DUST	H3-66	PARKER	1
24	HEAT EXCHANGER, AIR/OIL TYPE, WITH SINGLE	A0C-19-2-60-1PH	THERMAL TRANS.	1
	PHASE MOTOR			
25	PUMP. DIAPHRAGM, TRANSFER	D3635B7011A	FLOJET	1
	1.8 GPM, 115 VAC (02130-012)			
26	VALVE, IN-LINE 1/2" NPT, 3-WAY	70-643-01	APOLLO	1
27				
28	NIPPLE, QUICK COUPLER TO 3/8" HOSE BARB	H5EP	PARKER	1
29	COUPLER, QUICK CONNECT, 3/8" MALE NPT	25	PARKER	1
30				
31	PLATE, MOTOR MOUNTING	11887-R00-S01	TRIAD	1
32	PANEL, FRONT COVER	11890-R00-S01	TRIAD	1
33	BRACKET, ELECTRICAL ENCLOSURE MOUNTING	11889-R00-S01	TRIAD	2
34	BRACKET, FLOJET PUMP MOUNTING	11888-R00-S01	TRIAD	1
35				
36	TAG SET	12092-R00-S01	TRIAD	1
37	HINGE, PIANO, 1-1/2" W X .05 LEAF (FEET)	15665A247	McMASTER	6
38	ADAPTOR, 1/2" MALE NPT TO DIN FORM "A" CONN.	931297004	HIRSCHMANN	1
39	CONNECTOR, 230 VAC/VDC DIN FORM "A" CONN.	7000-18111-2170500	MURR	2
	NO CIRCUIT, 5M LONG			
40				
41	COUPLING, #4 SAE	1020	LDI/VESCOR	1
42	SLIDE, DRAWER SET	1277A82	McMASTER	1
43	SLEEVE, STEEL ROPE ALUM. COMPRESSION	3896T32	McMASTER	1
43A	ROPE, 7X7 .094" DIA. STN. STL. NYLON COATED (FEET)	8923T321	McMASTER	2
44	BRACKET, FRAME MOUNTING	11952-R00-S01	TRIAD	4
45	BRACKET, SIDE MOUNTING	11956-R00-S01	TRIAD	1
46	SPACERS, FRAME AND SLIDE	11957-R00-S01	TRIAD	1
47	PACKAGE, ELECTRICAL	ESD-540-012597-24	TRIAD	1
48				
49				
50				

NOTES:

1. * INDICATES OPTION NOT SUPPLIED ON ALL UNITS

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
.	A	UPDATED DESIGN BASED ON AVAILABLE COMPONENTS AT TIME OF BUILD	10-21-24	JAS

DRAWING PKG.:

ASSEMBLY DWG. B-30291 REV. A SHT'S. 1 & 2 (D012597-ASY-00 SHT'S. 1 & 2)
HYDRAULIC SCHEMATIC DWG. B-30292 REV. A SHT. 1 (D012597-HYD-00 SHT. 1)
PARTS LIST (MECHANICAL) DWG. B-30292 REV. A SHT. 2 (D012597-HYD-00 SHT. 2)
ELECTRICAL SCHEMATIC DWG. B-30293 REV. A SHT. 1 (D012597-ELE-00 SHT. 1)
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D012597-HYD-00 SHT. 2

TRIAD ITEM I.D. # ESD-130-012597-24

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AutoCAD LT 2006

DRAWN JAS DATE 10-21-24
RELESD . DATE .
QUOTE # ESD24012597
REF. DWG. 12945-R00-S01
REF. JOB 1005597
CUSTOMER PART# .
CUSTOMER DWG# .

XCITE SYSTEMS CORPORATION

DRAWING TITLE
PARTS LIST, HYDRAULIC 1001P HYD. POWER SUPPLY

PRODUCTION ORDER # 1033857 | SIZE B | DWG NO. 30292 | REV A
CUSTOMER XCITE SYSTEMS | SCALE NONE | SHEET 2 OF 2

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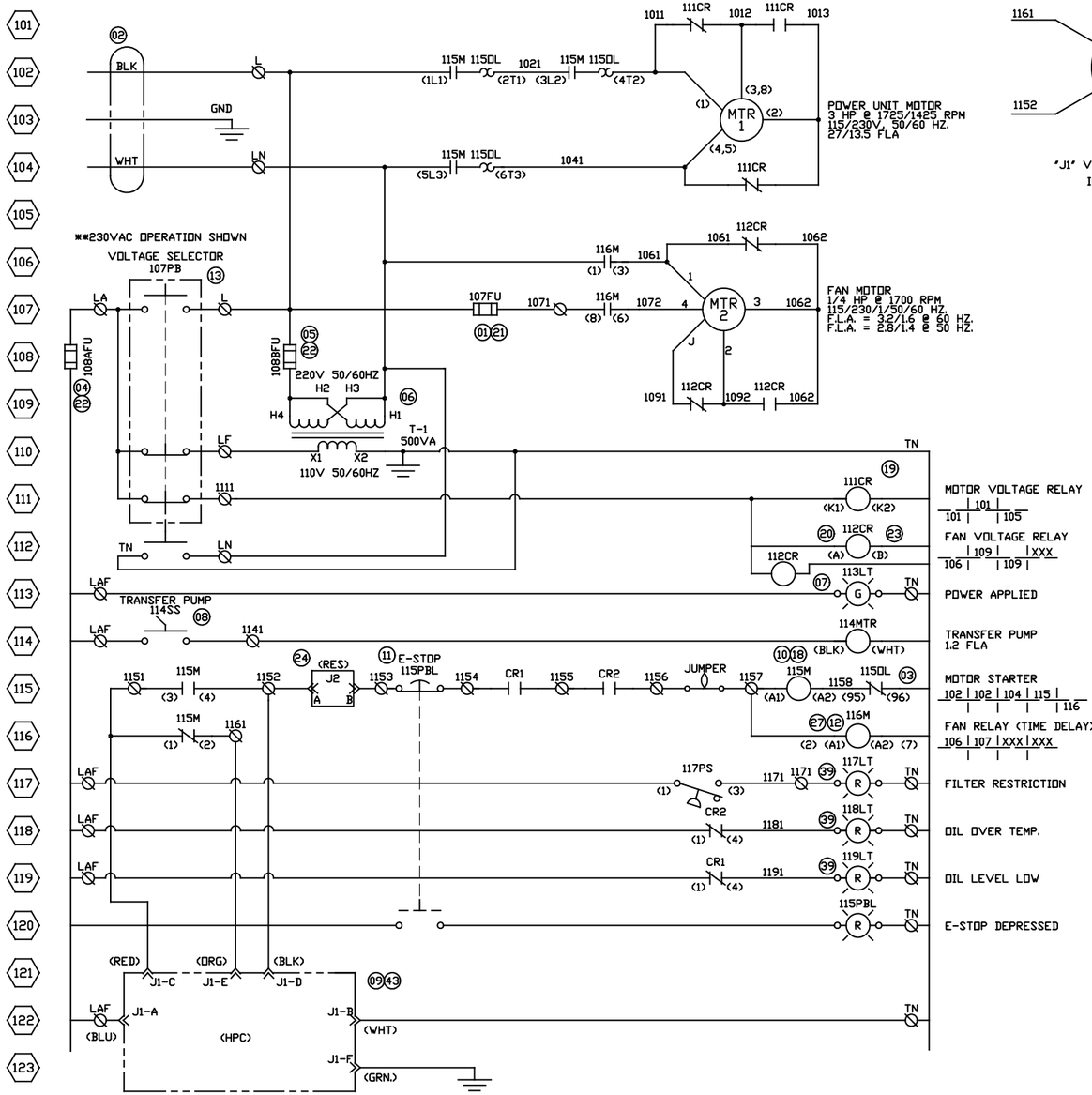
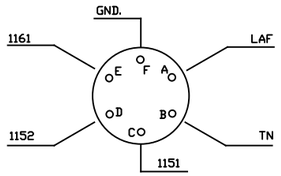
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	A	UPDATED DESIGN BASED ON AVAILABLE COMPONENTS AT TIME OF BUILD	10-21-09	JAS

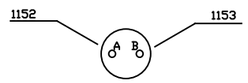


(HPC CONNECTOR)

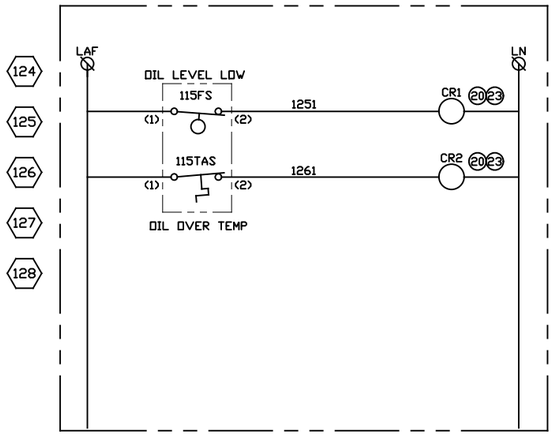


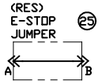
'J1' VIEWED FROM WIRE INSERTION SIDE.

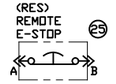
(RES CONNECTOR)

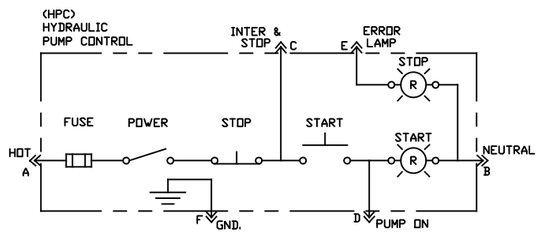


'J2' VIEWED FROM WIRE INSERTION SIDE.









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ELECTRICAL CONTROL BOX #1 DWG. B-30294 REV. A (D012597-ELE-01)
ELECTRICAL CONTROL BOX #2 DWG. B-30295 REV. A (D012597-ELE-02)

NOTES:

1. ELECTRICAL COMPONENTS ARE TO BE HELD IN PLACE WITH RETAINING CLIPS/DEVICES.

D012597-ELE-00

TRIAD ITEM I.D. # ESD-130-012597-24

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THIRD ANGLE PROJECTION

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DECIMAL .XX ± .01
.XXX ± .005
.XXXX ± .0005
FRACTIONS ± 1/32
ANGULAR ± 1°
BREAK SHARP CORNERS

AutoCAD LT 2006

DRAWN JAS 03-07-12
CHECKED . .
ENGR'G # ESD24012597
REV. DWG. 12946-R00-S01
REF. JOB 1005597
CUSTOMER P.O. #
CUSTOMER DWG #

XCITE SYSTEMS CORPORATION

DRAWING TITLE
SCHEMATIC, ELECTRIC
1001P HYD. POWER SUPPLY

JOB# 1033857 SIZE B DWG NO. 30293 REV A
CUSTOMER XCITE SYSTEMS SCALE NONE SHEET 1 OF 2

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ITEM	QTY.	MFG.	MODEL NUMBER	DESCRIPTION
01	1	SOCOMEC	57050011	FUSE BLOCK
02	50FT	CAROL	SO 10-4	LINE CORD, 10AWG, 4 COND.
03	1	LS ELECTRIC	1298001500	RELAY, OVERLOAD, SET AT 20A
04	1	BUSSMANN	FNQ-R-6	FUSE, 6A
05	1	BUSSMANN	FNQ-R-3	FUSE, 3A
06	1	HAMMOND	PH500MQMJ	TRANSFORMER, 500VA
07	1	ALLEN BRADLEY	800T-QT10G	PILOT LIGHT, GREEN, 120VAC, PUSH-TO-TEST
08	1	ALLEN BRADLEY	800T-H2D1	SELECTOR SWITCH, 2POS. MAINTAINED
09	1	AMPHENOL	97-3102A1812-S	CONNECTOR, MS
10				
11	1	ALLEN BRADLEY	800T-FXP16RA1	PUSH-BUTTON, 2POS., MAINTAINED, E-STOP
12	1	FUJI	MS4SM-AP-ADC	RELAY, TIME DELAY, 5A, 10SEC
13	1	ALLEN BRADLEY	800T-H2B	SELECT. SWITCH, 2 POS., MAINTAINED
14	1	HOFFMAN	A-1412SC	ENCLOSURE, 14x12x4
15	1	HOFFMAN	A-14P12	PANEL, 14x12
16	1	HOFFMAN	A-10086SC	ENCLOSURE, 10x8x6
17	1	HOFFMAN	A-10P8	PANEL, 10x8
18	1	LS ELECTRIC	1336006700	CONTACTOR, 37A W/1NC1NO AUX CONTACT
19	1	LS ELECTRIC	1389000500	CONTACTOR RELAY
20	4	FINDER	40.52.8.120.0000	RELAY, 8A, DPDT W/BASE
21	1	BUSSMANN	LP-CC-4	FUSE, 4A, CLASS CC
22	1	SOCOMEC	57050012	2 POLE FUSE HOLDER
23	3	FINDER	95.05SPA	RELAY CLIP
24	1	AMPHENOL	97-3102A-10SL-04P	PLUG, MS
* 25	2	AMPHENOL	97-3106A-10FL-04S	CONNECTOR, MS
26				
27	1	FUJI	TP411X	SOCKET RELAY (TIMER)
28				
29				
30				
31				
32	30	WEIDMULLER	1020000000	TERMINAL BLOCK
33	4	WEIDMULLER	1010000000	TERMINAL BLOCK, GREEN, GROUNDING
34	4	WEIDMULLER	1061200000	END ANCHOR
35	2	WEIDMULLER	1050000000	END COVER
36	IN	PHOENIX	0801733	DIN RAIL, 35mm
37				
38				
39	3	ALLEN BRADLEY	800T-P16R	AB RED PILOT LIGHTS
40				
41				
42				
43				

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
.	A	UPDATED DESIGN BASED ON AVAILABLE COMPONENTS AT TIME OF BUILD	10-21-24	JAS

* (1) CONNECTOR IS JUMPERED AND CONNECTED TO UNIT, (1) EXTRA CONNECTOR IS SHIPPED LOOSE FOR REMOTE E-STOP INSTALLATION

DRAWING PKG.:
ASSEMBLY DWG. B-30291 REV. A SHT'S. 1 & 2 (D012597-ASY-00 SHT'S. 1 & 2)
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ELECTRICAL CONTROL BOX #2 DWG. B-30295 REV. A (D012597-ELE-02)

D012597-ELE-00

TRIAD ITEM I.D. # ESD-130-012597-24

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THIRD ANGLE PROJECTION

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DECIMAL .XX ± .01
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FRACTIONS ± 1/32
ANGULAR ± 1°
BREAK SHARP CORNERS

AutoCAD LT 2006

DRAWN JAS 10-21-24
RELEASED . .
SHOP # ESD24012597
REV. DWG. 12946-R00-S02
REF. JOB 1005597
CUSTOMER PART# .
CUSTOMER QUOTE# .

XCITE SYSTEMS CORPORATION

DRAWING TITLE: SCHEMATIC, ELECTRICAL
1001P HYD. POWER SUPPLY

JOB# 1033857 | SIZE B | DWG NO. 30293 | REV A

CUSTOMER XCITE SYSTEMS | SCALE NONE | SHEET 2 OF 2

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REVISIONS				
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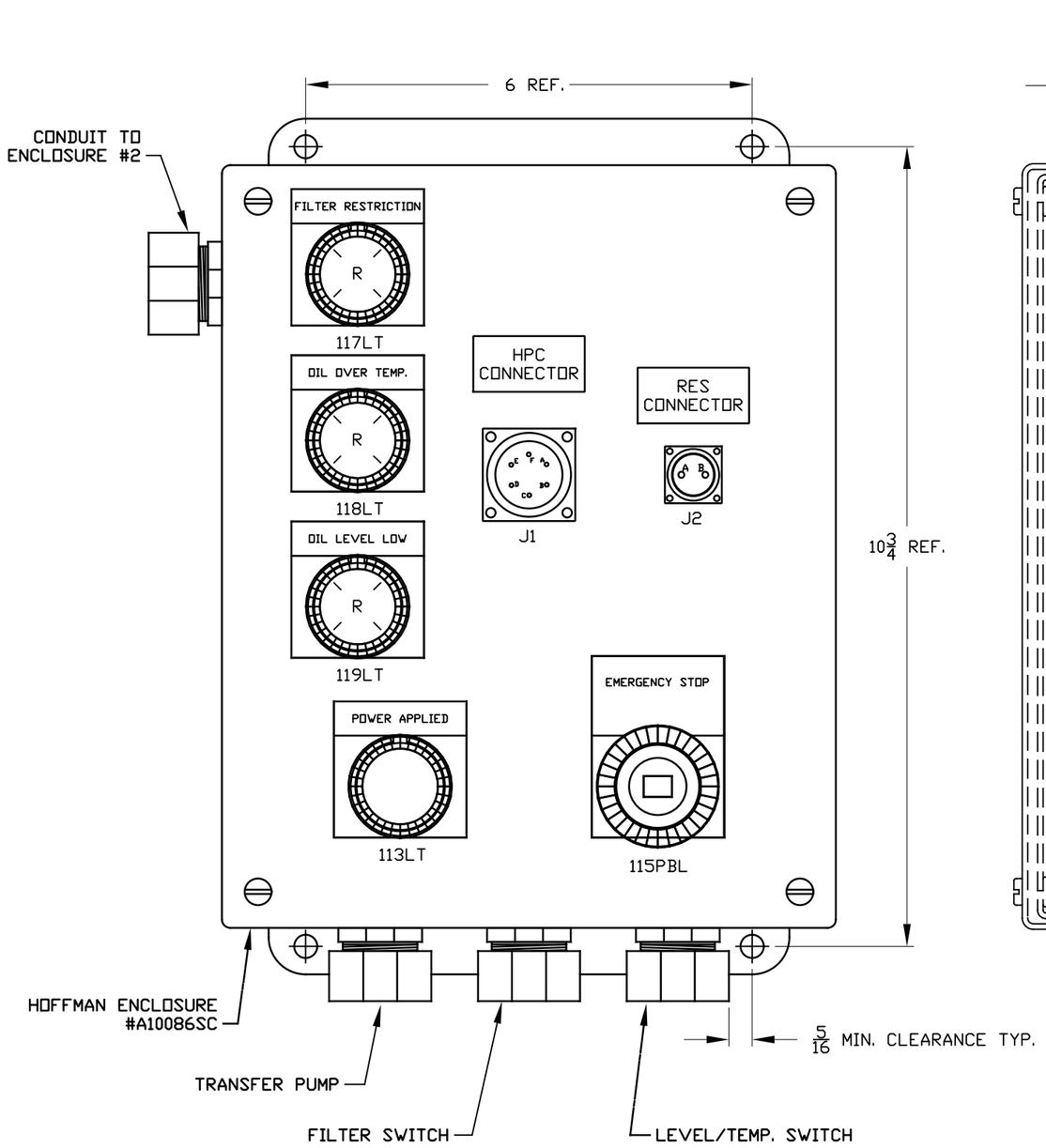

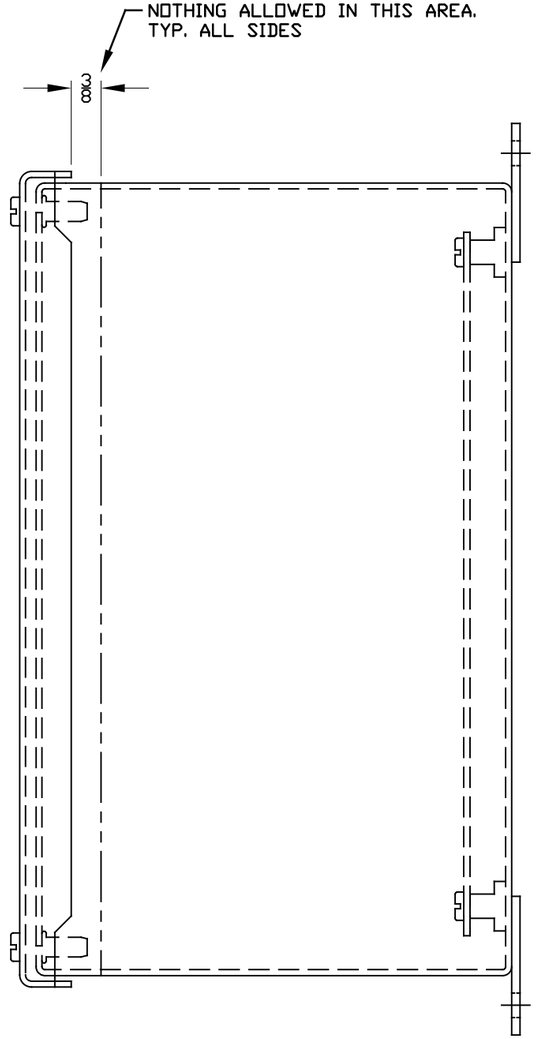

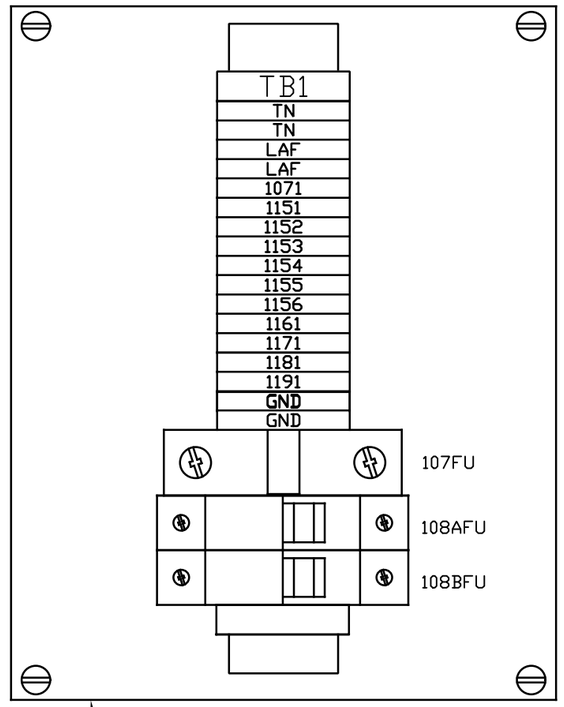

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D012597-ELE-01

TRIAD ITEM I.D. # ESD-130-012597-24

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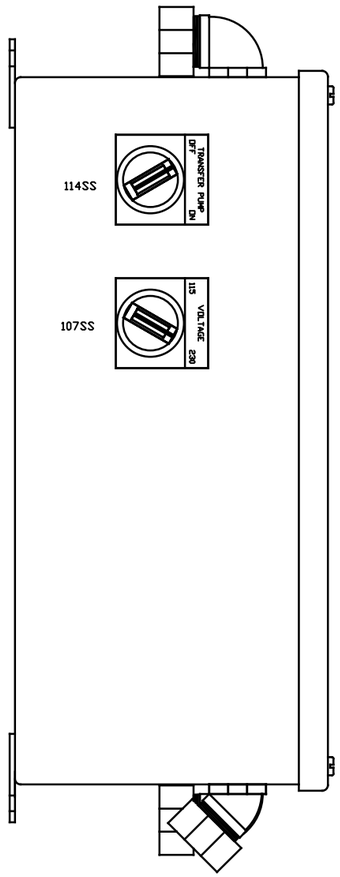
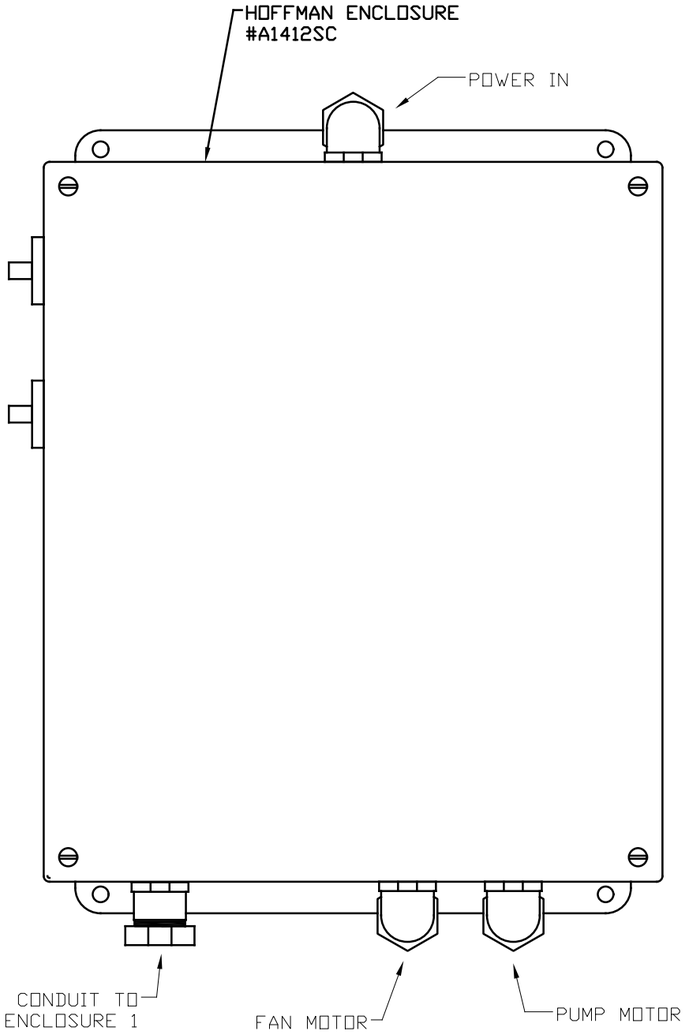
DRAWING TITLE
ELECTRICAL CONTROL BOX #1 1001P HYD. POWER SUPPLY

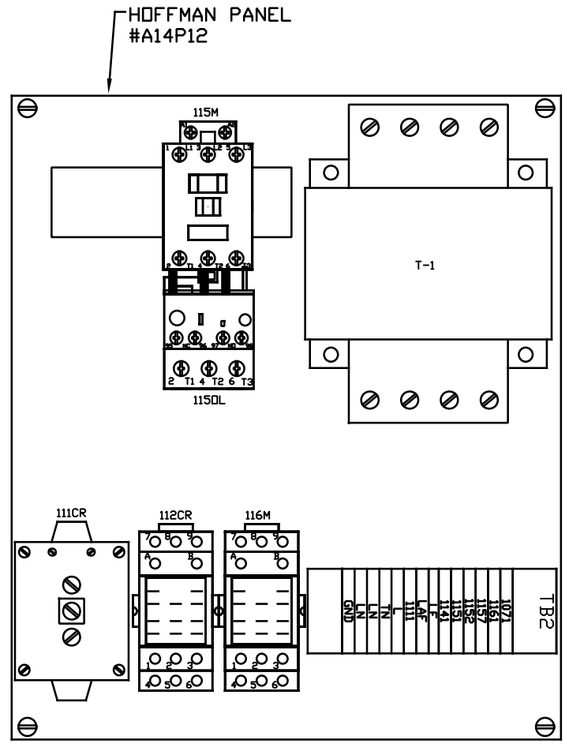
PRODUCTION ORDER #	SIZE	DWG NO.	REV
1033857	B	30294	A

CUSTOMER XCITE SYSTEMS | SCALE NONE | SHEET 1 OF 1

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
.	A	UPDATED DESIGN BASED ON AVAILABLE COMPONENTS AT TIME OF BUILD	10-21-24	JAS







DRAWING PKG.:

ASSEMBLY DWG. B-30291 REV. A SHT'S. 1 & 2 (D012597-ASY-00 SHT'S. 1 & 2)
HYDRAULIC SCHEMATIC DWG. B-30292 REV. A SHT. 1 (D012597-HYD-00 SHT. 1)
PARTS LIST (MECHANICAL) DWG. B-30292 REV. A SHT. 2 (D012597-HYD-00 SHT. 2)
ELECTRICAL SCHEMATIC DWG. B-30293 REV. A SHT. 1 (D012597-ELE-00 SHT. 1)
PARTS LIST (ELECTRICAL) DWG. B-30293 REV. A SHT. 2 (D012597-ELE-00 SHT. 2)
ELECTRICAL CONTROL BOX #1 DWG. B-30294 REV. A (D012597-ELE-01)
ELECTRICAL CONTROL BOX #2 DWG. B-30295 REV. A (D012597-ELE-02)

D012597-ELE-02

TRIAD ITEM I.D. # ESD-130-012597-24

THIS DRAWING IS TO BE INTERPRETED USING THE LATEST REVISION OF ANSI/ASME Y14 DRAFTING STANDARDS

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED ALL DIMS ARE IN INCHES TOLERANCES ARE:
DECIMAL 0.XX ± .01
0.XXX ± .005
0.XXXX ± .0005
FRACTIONS ± 1/32
ANGULAR ± 1°
BREAK SHARP CORNERS

AutoCAD LT 2006

DRAWN	JAS	DATE 10-21-24
ENGRD	.	DATE .
ENGR #	ESD24012597	
REF. DWG.	12948-R00-S01	
REF. JOB	1005597	
CUSTOMER P.O.#	.	
CUSTOMER DWG.	.	

XCITE SYSTEMS CORPORATION

DRAWING TITLE
ELECTRICAL CONTROL BOX #2
1001P HYD. POWER SUPPLY

JOB#	SIZE	DWG NO.	REV
1033857	B	30295	A

CUSTOMER XCITE SYSTEMS | SCALE NONE | SHEET 1 OF 1

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