

# MHII

## Dispensing System

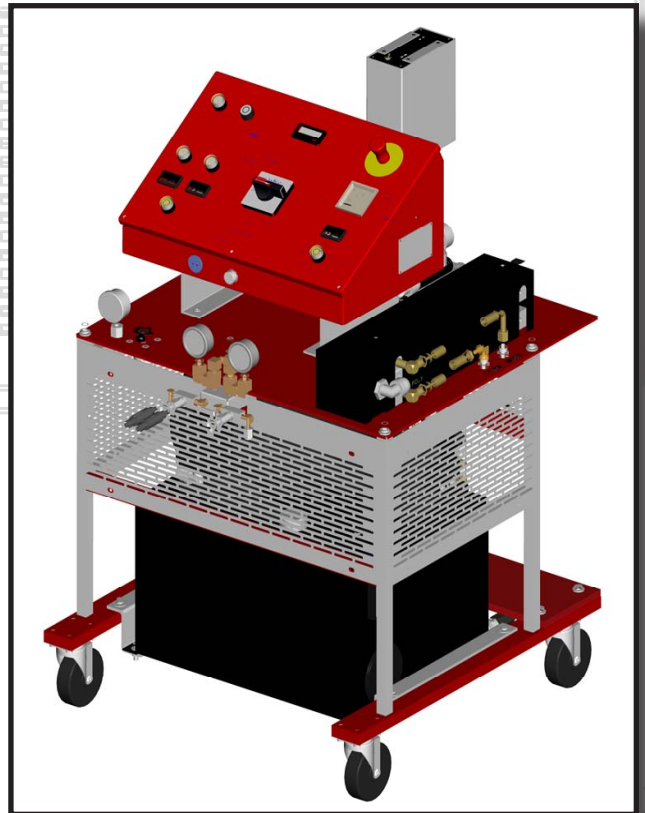
**For use with non-flammable foam and polyurea.  
Not for use in explosive atmospheres.**

**Maximum fluid working pressure:  
2200 psi. (15.2 Mpa, 151.7 bar)**

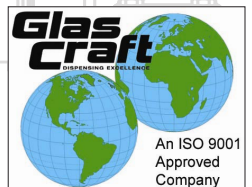


**Important Safety Instructions**

Read all warnings and instructions in this manual. Save these instructions.



USER MANUAL



# Table Of Contents

## Section 1 Installation

Warnings .....	1
Introduction .....	5
Standard Equipment .....	6
Equipment Assembly .....	7

## Section 2 Operation

Start-up Instructions .....	13
Shut-down Instructions .....	19
Daily Start-Up Instructions .....	20

## Section 3 General Information

Assembly Drawings .....	22
Sub Assembly Drawings .....	29
Maintenance .....	40
Troubleshooting .....	41
Options .....	N/A






## Section 4 Warranty and Reference Information

Notes .....	42
Technical Data .....	46
Limited Warranty Policy .....	47
Technical Assistance .....	48
For Your Reference .....	<b>INSIDE BACK COVER</b>

N/A = Non Applicable






# Warnings

The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbol refers to procedure-specific risk. Refer back to these warnings. Additional, product-specific warnings may be found throughout the body of this manual where applicable.

 <b>WARNING</b>	
	<p><b>ELECTRIC SHOCK HAZARD</b> Improper grounding, setup, or usage of the system can cause electric shock.</p> <ul style="list-style-type: none"> <li>• Turn off and disconnect power cord before servicing equipment.</li> <li>• Use only grounded electrical outlets.</li> <li>• Use only 3-wire extension cords.</li> <li>• Ensure ground prongs are intact on sprayer and extension cords.</li> <li>• Do not expose to rain. Store indoors.</li> </ul>
	<p><b>TOXIC FLUID OR FUMES HAZARD</b> Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.</p> <ul style="list-style-type: none"> <li>• Read MSDS's to know the specific hazards of the fluids you are using.</li> <li>• Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.</li> <li>• Always wear impervious gloves when spraying or cleaning equipment.</li> </ul>
	<p><b>PERSONAL PROTECTIVE EQUIPMENT</b> You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to:</p> <ul style="list-style-type: none"> <li>• Protective eyewear</li> <li>• Clothing and respirator as recommended by the fluid and solvent manufacturer</li> <li>• Gloves</li> <li>• Hearing protection</li> </ul>
	<p><b>SKIN INJECTION HAZARD</b> High-pressure fluid from gun, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. <b>Get immediate surgical treatment.</b></p> <ul style="list-style-type: none"> <li>• Do not point gun at anyone or at any part of the body.</li> <li>• Do not put your hand over the spray tip.</li> <li>• Do not stop or deflect leaks with your hand, body, glove, or rag.</li> <li>• Close material shutoff valves when not spraying.</li> <li>• Follow <b>Pressure Relief Procedure</b> in this manual, when you stop spraying and before cleaning, checking, or servicing equipment.</li> </ul>

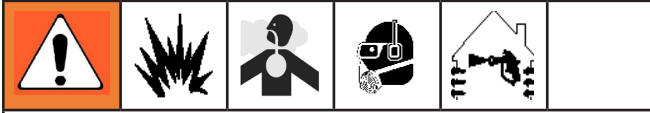
## Warnings

### ! WARNING

	<p><b>FIRE AND EXPLOSION HAZARD</b></p> <p>Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. To help prevent fire and explosion:</p> <ul style="list-style-type: none"> <li>• Use equipment only in well ventilated area.</li> <li>• Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static arc).</li> <li>• Keep work area free of debris, including solvent, rags and gasoline.</li> <li>• Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present.</li> <li>• Ground all equipment in the work area.</li> <li>• Use only grounded hoses.</li> <li>• Hold gun firmly to side of grounded pail when triggering into pail.</li> <li>• If there is static sparking or you feel a shock, <b>stop operation immediately</b>. Do not use equipment until you identify and correct the problem.</li> <li>• Keep a working fire extinguisher in the work area.</li> </ul>
	<p><b>PRESSURIZED ALUMINUM PARTS HAZARD</b></p> <p>Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents in pressurized aluminum equipment. Such use can cause serious chemical reaction and equipment rupture, and result in death, serious injury, and property damage.</p>
	<p><b>EQUIPMENT MISUSE HAZARD</b></p> <p>Misuse can cause death or serious injury.</p> <ul style="list-style-type: none"> <li>• Do not operate the unit when fatigued or under the influence of drugs or alcohol.</li> <li>• Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See <b>Technical Data</b> in all equipment manuals.</li> <li>• Use fluids and solvents that are compatible with equipment wetted parts. See <b>Technical Data</b> in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request MSDS forms from distributor or retailer.</li> <li>• Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.</li> <li>• Do not alter or modify equipment.</li> <li>• Use equipment only for its intended purpose. Call your distributor for information.</li> <li>• Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.</li> <li>• Do not kink or over bend hoses or use hoses to pull equipment.</li> <li>• Keep children and animals away from work area.</li> <li>• Comply with all applicable safety regulations.</li> </ul>
	<p><b>MOVING PARTS HAZARD</b></p> <p>Moving parts can pinch or amputate fingers and other body parts.</p> <ul style="list-style-type: none"> <li>• Keep clear of moving parts.</li> <li>• Do not operate equipment with protective guards or covers removed.</li> <li>• Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the <b>Pressure Relief Procedure</b> in this manual. Disconnect power or air supply.</li> </ul>
	<p><b>BURN HAZARD</b></p> <p>Equipment surfaces and fluid that's heated can become very hot during operation. To avoid severe burns, do not touch hot fluid or equipment. Wait until equipment/fluid has cooled completely.</p>

## Warnings

### Isocyanate Hazard



Spraying materials containing isocyanates creates potentially harmful mists, vapors, and atomized particulates.

Read material manufacturer's warnings and material MSDS to know specific hazards and precautions related to isocyanates.

Prevent inhalation of isocyanate mists, vapors, and atomized particulates by providing sufficient ventilation in the work area. If sufficient ventilation is not available, a supplied-air respirator is required for everyone in the work area.

To prevent contact with isocyanates, appropriate personal protective equipment, including chemically impermeable gloves, boots, aprons, and goggles, is also required for everyone in the work area.

To prevent exposing ISO to moisture:

- Always use a sealed container with a desiccant dryer in the vent, or a nitrogen atmosphere. **Never** store ISO in an open container.
- Keep the ISO lube pump reservoir filled with Graco Throat Seal Liquid (TSL), Part 206995. The lubricant creates a barrier between the ISO and the atmosphere.
- Use moisture-proof hoses specifically designed for ISO, such as those supplied with your system.
- Never use reclaimed solvents, which may contain moisture. Always keep solvent containers closed when not in use.
- Never use solvent on one side if it has been contaminated from the other side.
- Always park pumps when you shutdown.
- Always lubricate threaded parts with Part 217374 ISO pump oil or grease when reassembling.

### Moisture Sensitivity of Isocyanates

Isocyanates (ISO) are catalysts used in two component foam and polyurea coatings. ISO will react with moisture (such as humidity) to form small, hard, abrasive crystals, which become suspended in the fluid. Eventually a film will form on the surface and the ISO will begin to gel, increasing in viscosity. If used, this partially cured ISO will reduce performance and the life of all wetted parts.



The amount of film formation and rate of crystallization varies depending on the blend of ISO, the humidity, and the temperature.

## Warnings

### Keep Components A and B Separate

#### CAUTION

To prevent cross-contamination of the equipment's wetted parts, never interchange component A (isocyanate) and component B (resin) parts. The gun is shipped with the A side on the left. The fluid manifold, fluid housing, side seal assembly, check valve cartridge, and mix chamber are marked on the A side.

### Foam Resins with 245 fa Blowing Agents

New foam blowing agents will froth at temperatures above 90°F (33 °C) when not under pressure, especially if agitated. To reduce frothing, minimize preheating in a circulation system.

### Changing Materials

- When changing materials, flush the equipment multiple times to ensure it is thoroughly clean.
- Always clean the fluid inlet strainers after flushing.
- Check with your material manufacturer for chemical compatibility.
- Most materials use ISO on the A side, but some use ISO on the B side.
- Epoxies often have amines on the B (hardener) side. Polyureas often have amines on the B (resin) side.

# Section 1 - Installation: Introduction

## Introduction

Before operating, maintaining or servicing any **GlasCraft** system, read and understand all of the technical and safety literature provided with **GlasCraft** products. If you do not have the proper or related manuals and safety literature for your **GlasCraft** system, contact your **GlasCraft** distributor or **GlasCraft, Inc.**

In this **GlasCraft** technical and safety publication, the following advisories will be provided where appropriate:



Information about the procedure in progress.



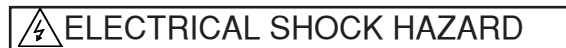
*Is imperative information about equipment protection.*



*Indicates a hazardous situation that can result in minor or moderate injury.*



*Indicates a hazardous situation that can result in death or serious injury.*



*Indicates a hazardous situation that can result in electrical shock or serious injury.*

The information in this document is intended only to indicate the components and their normal working relationship typical use. Each assembly should be directed by a **GlasCraft** distributor or made from the **GlasCraft** Assembly instructions provided.

This manual provides information for the assembly, operation, maintenance and service of this **GlasCraft** product as used in a typical configuration. While it lists standard specifications and procedures, some deviations may be found.

In order to provide our users with the most up-to-date technology possible, we are constantly seeking to improve products. If a technological change occurs after a product is on the market, we will implement that technology in future production and, if practical, make it available to current users as a retrofit, update or supplement. If you find a discrepancy between your unit and the available documentation, contact your **GlasCraft** distributor to resolve the difference. **GlasCraft, Inc.** reserves the right to change or modify this product as it deems necessary.

Careful study and continued use of this manual will provide a better understanding of the equipment and process, resulting in more efficient operation, longer trouble-free service and faster, easier troubleshooting.

## Section 1 - Installation: Standard Equipment

### Model - MH II

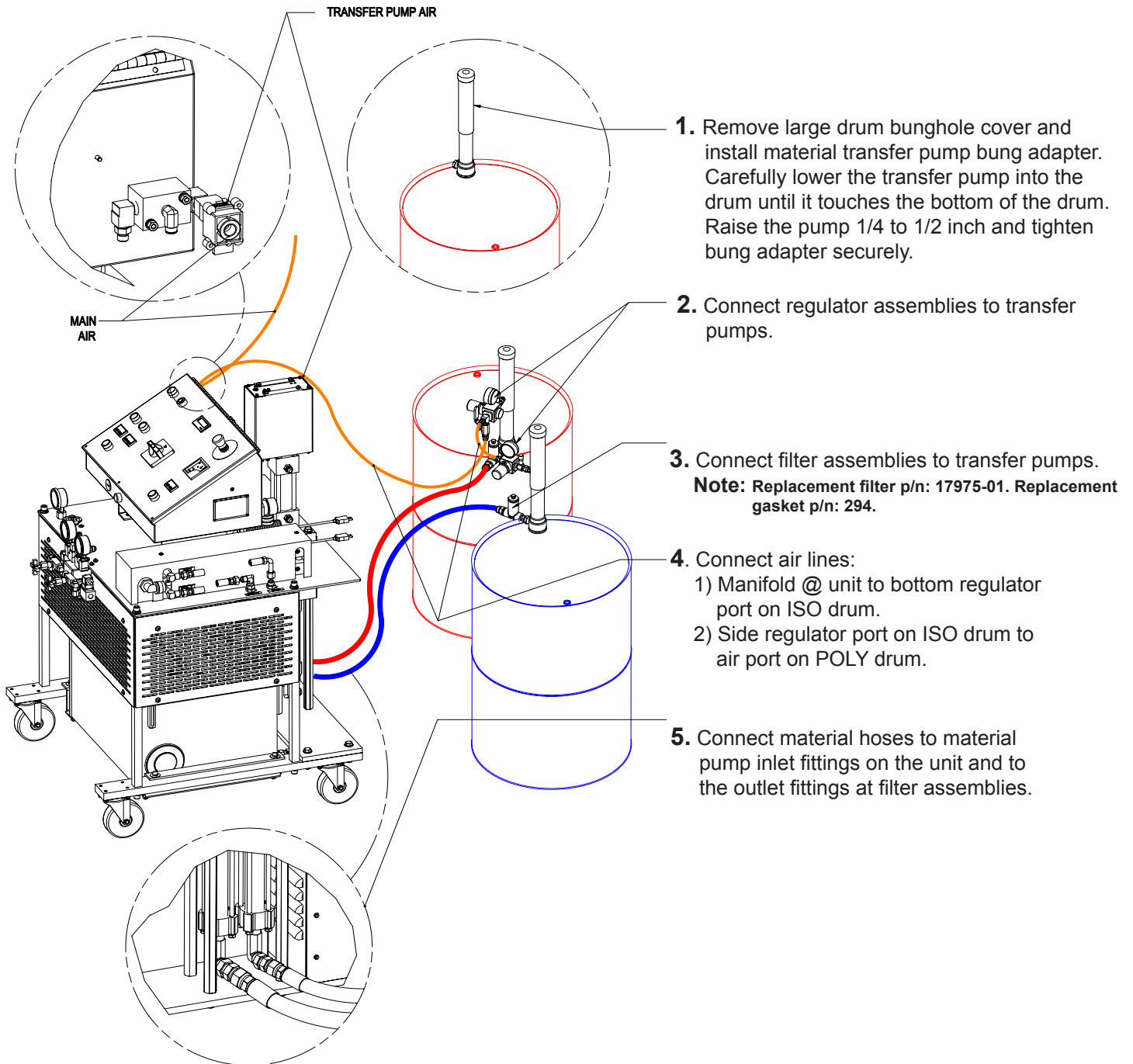
Standard Equipment	
Part Number	Description
22850-XX	MH II Dispensing System
23950-XX	Probler P2 Gun• W/ Round Spray Mixing Chamber
246055	Whip Hose Assembly
246075	Medium Pressure Heated Hose Assembly
59934-04	Dioctyl Phthalate, 1 Qt.
GC-1267	System User Manual



## Section 1 - Installation: Equipment Assembly

### Optional Transfer Pump Installation

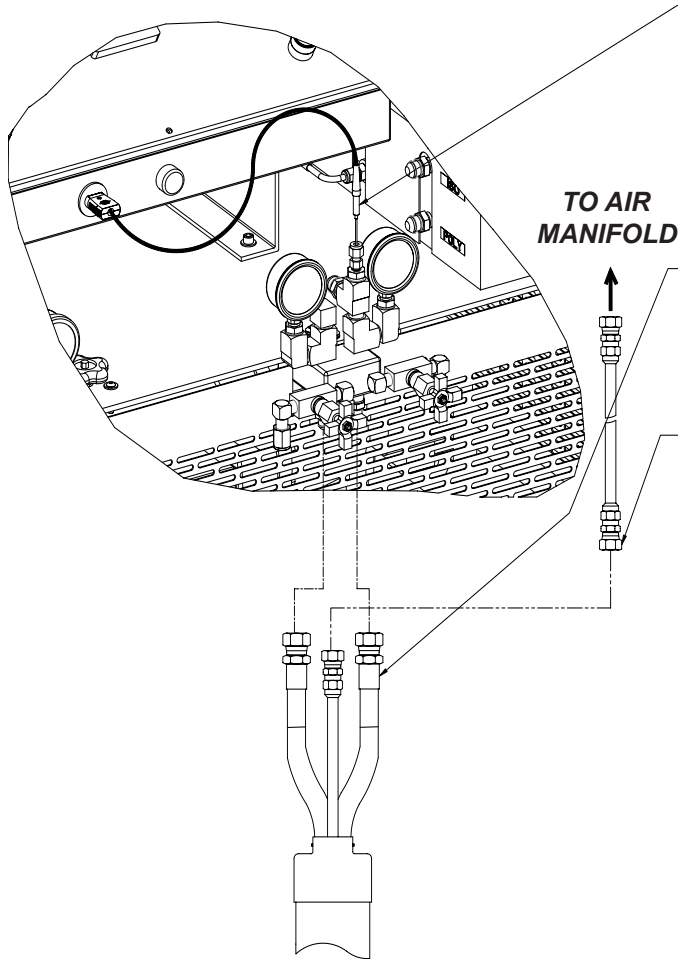
P/n: 17666-01



### Optional Air Dryer Kit

P/n: 23410-00 should be installed on the ISO material drum. Replacement cartridge p/n: 23409-00.

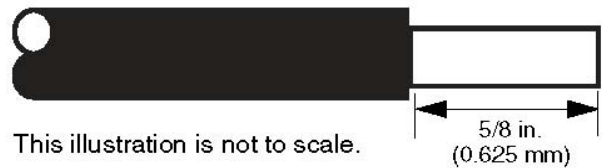
## Section 1 - Installation: Equipment Assembly





6. Install thermocouple at tee fitting.
  - a. Feed 12 ft. line through hose.
  - b. Nut & Ferrules will lock into fitting.
  - c. Tighten nut 1-1/4 turns past finger tight.
  - d. Plug thermocouple into control box.

**Note:** When replacing thermocouple p/n 22074-00 use kit p/n: 21214-01.
7. Connect hose assembly to the front of the unit. The fittings are sized differently and will attach only one way. (match like sized fittings).
8. Connect supplied trigger air line to the air line on the hose assembly.
9. Connect the electrical wires.
  - Ensure the wire ends are 5/8 in. (.625 mm) long. If they are not, use a sharp pair of scissors to strip all four wire ends to the correct length.

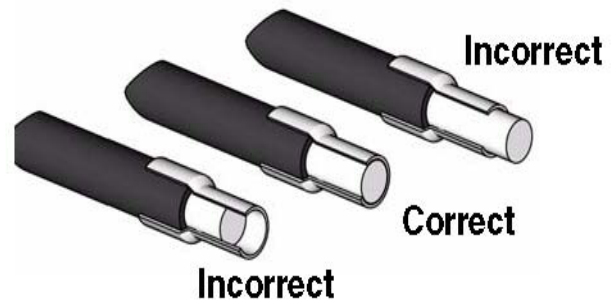
### Strip Length




 *Be careful, do not cut or nick any copper strands. If more than five strands are cut or nicked, trim and re-strip the wires.*

 *New hoses are pre-stripped to the correct length; remove the insulation to expose the bare wire.*

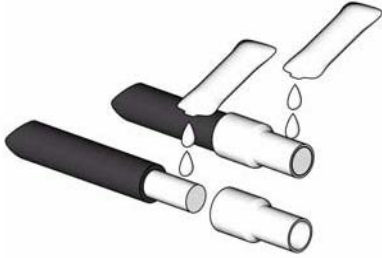
10. Ensure the strip length is correct by fitting the ferrule over the exposed wire. The ferrule should be flush with the end of the wire.



## Section 1 - Installation: Equipment Assembly


 If the wire is short of the ferrule end, adjust the strip length accordingly. If bare is protruding from the ferrule, trim it flush to the end of the ferrule.

11. Remove the ferrule and apply oxide inhibitor to the bare wire.
12. Reinsert the wire in the ferrule and apply more oxide inhibitor to the ferrule and wire end.

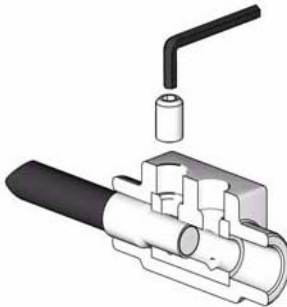



13. Pair the electrical wires as follows:

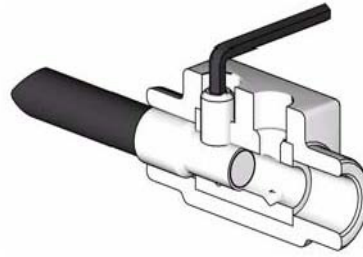
A-Hose to A-Hose  
B-Hose to B-Hose

 When connecting the first hose to the proportioner, wire painting does not make a difference.


14. Insert one wire from the heated hose into the connector. Ensure that the ferrule is mating with the connector insert and attach the set screw. Torque the set screw to 60 in.-lbs. (6.78 N•m).



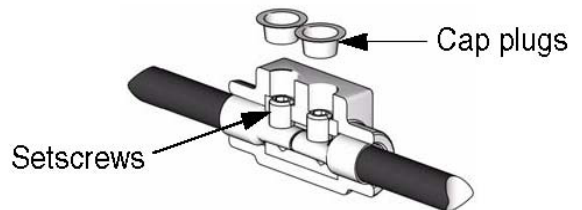
 To reach approximately 60 in.-lbs. (6.78 N•m), complete 4.5 revolutions with the hex wrench after the set screw contacts the ferrule.



15. Repeat steps 21 through 24 for remaining.

 Re-torque all four set screws to 60 in.-lbs. (6.78 N•m). The set screws will be approximately flush with the connector.

16. Insert the cap plugs over the set screws.



17. Repeat steps 21 through 26 for additional hoses.

## Section 1 - Installation: Equipment Assembly

18. Add extra hose lengths if necessary.

### Required Tools:

Opened - end wrenches - 3/4 in.

a. Lay hoses out straight.

b. Couple hoses together with supplied union fittings and tighten finger-tight.

c. • Hold crimp fitting hex (3/4 in.), and union fitting together, allowing the hose to hold its natural line.

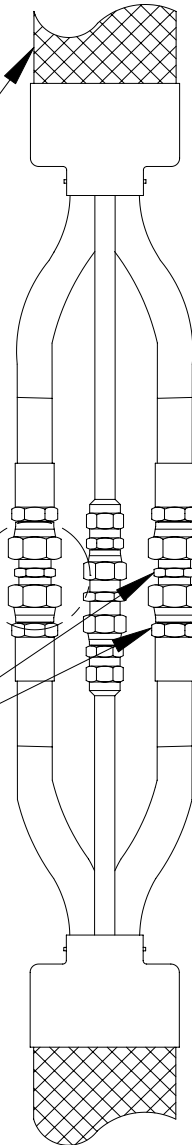
- Using 3/4 in. wrenches to tighten swivel fitting to union, do not allow crimp fitting or union to turn. Repeat on opposite side of union.

**This practice is required on all connection points.**

**1) Hose and machine**

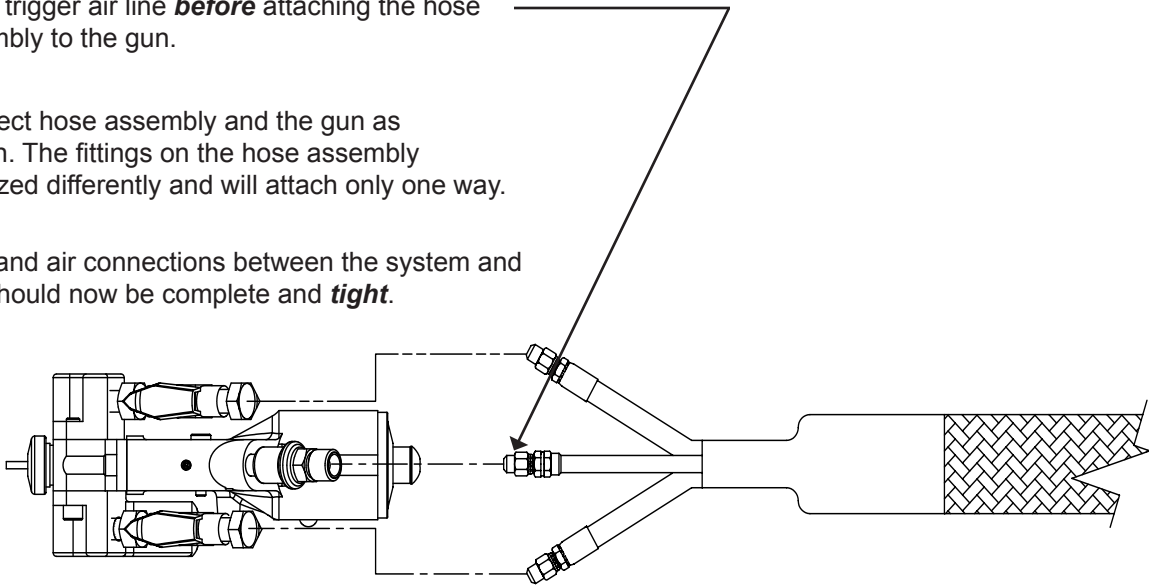
**2) Hose and gun**

**3) Adding additional hose sections**

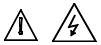


## Section 1 - Installation: Equipment Assembly

19. Connect the supplied swivel fitting p/n 23825-00 to the trigger air line **before** attaching the hose assembly to the gun.
20. Connect hose assembly and the gun as shown. The fittings on the hose assembly are sized differently and will attach only one way.
21. Fluid and air connections between the system and gun should now be complete and **tight**.



When Main Power to system console is on, the white and black wires in the console are **always live!** Disconnect or turn **off** Main Power source before opening console to make any repairs or before making any electrical repair of any type to the system.



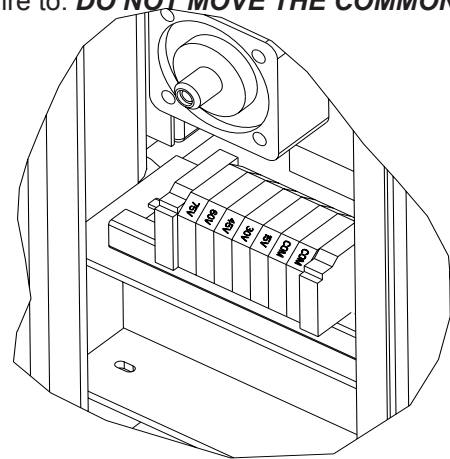
If you do not understand the electrical hook-up described above, consult your local GlasCraft distributor OR a qualified electrician.



Electrical connections must be checked on a periodic basis.

- 208/240 volt single phase
- L1 L2 GROUND
- 208/240 volt three phase
- L1 L2 L3 GROUND
- 380 volt three phase
- L1 (black)
- L2 (brown)
- L3 (black)
- L4 (blue)
- GROUND (green)


22. If more than 50 ft. of hose is used the transformer tap setting will need to be set for proper hose length. The sticker on the front cover will say which tap to move the wire to. **DO NOT MOVE THE COMMON LEG!**




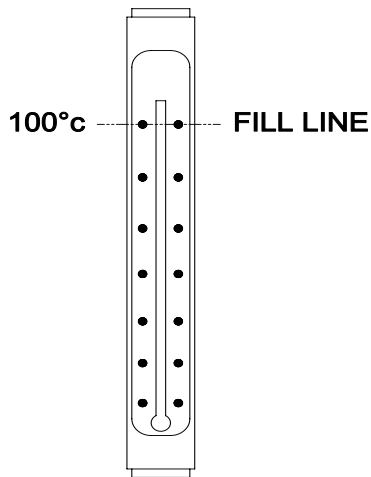
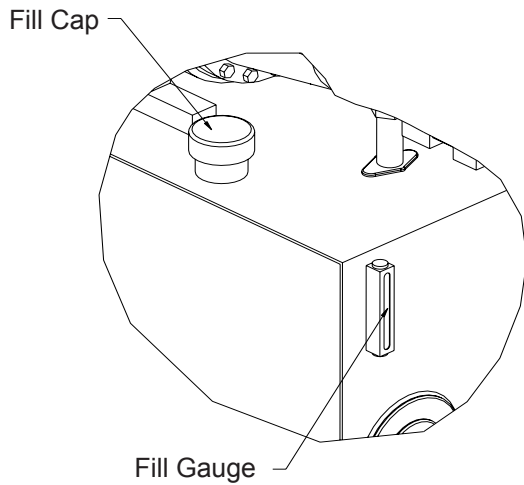
CONNECTIONS		HOSE LENGTH
	15V	50 FT
	30V	100 FT
	COM	150 FT
	45V	200 FT
(DO NOT MOVE)	60V	250 FT
	60V	250 FT
	75V	300 FT

## Section 1 - Installation: Equipment Assembly

22. Fill the hydraulic power pack with proper fluid.

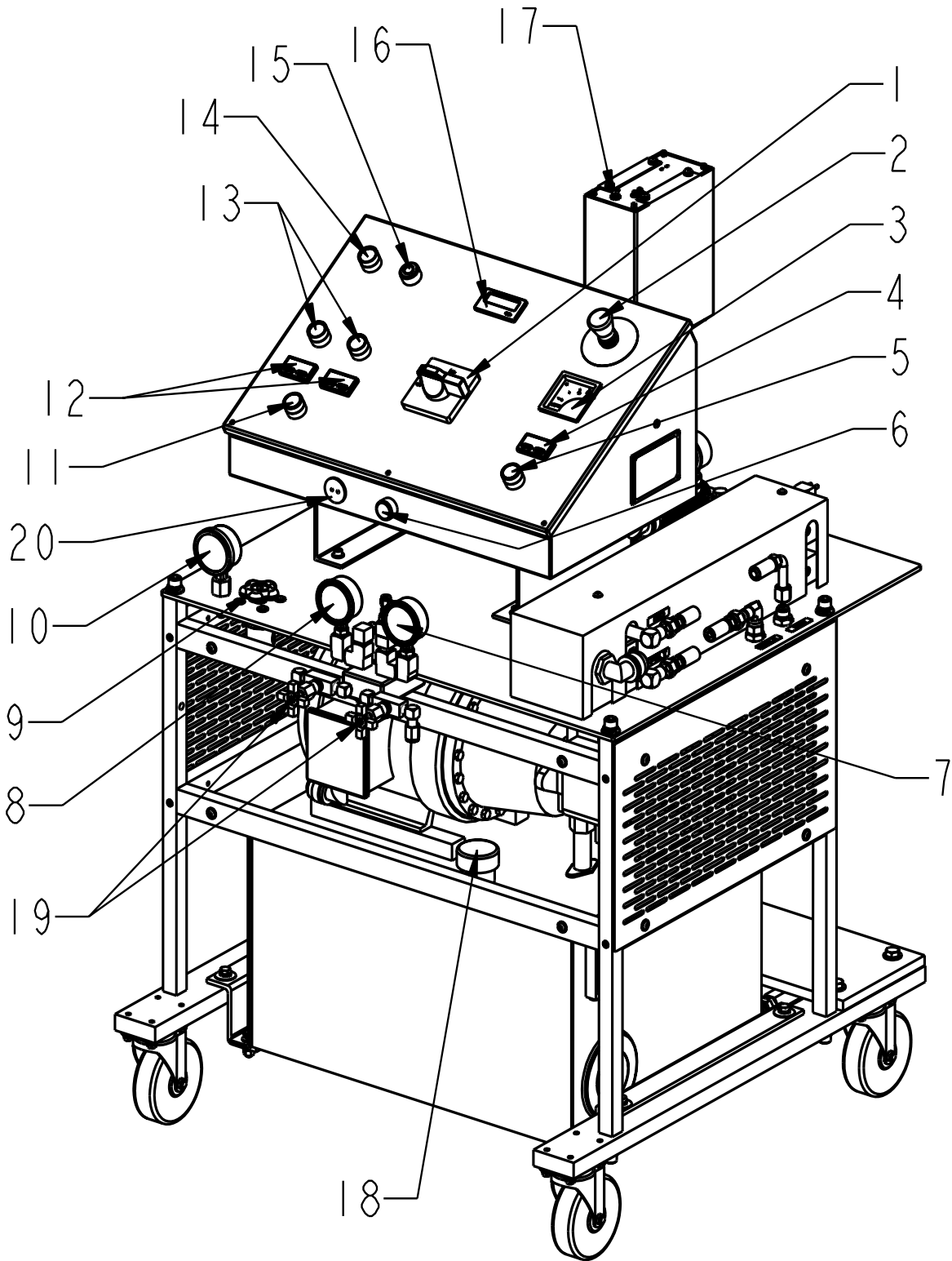
 The hydraulic pack tank is empty when shipped from GlasCraft. The tank **MUST** be filled before operation. **Tank Capacity: 20 GAL. / 75.5 Liter.**

 Recommended Hydraulic Fluid: ISO grade 32, 46, or 68. Fluids containing anti-wear additives are recommended for optimum service life.



## Section 2 - Operation: Start-Up Instructions

### System Console



## Section 2 - Operation: Start-Up Instructions

### System Console

1	MAIN POWER SWITCH	Controls power and door; handle must point 1 to energize power , handle must point to 0 to open control box door. White pilot indicates when lighted, that the main power is on.
2	EMERGENCY STOP PUSH BUTTON	To stop all functions, push down on red button. To reset, turn handle on push button. All functions will remain off until main power switch has been switched off and back on
3	AMMETER	An instrument for measuring amperes to the primary side of the hose's transformer.
4	HOSE TEMPERATURE CONTROLLER	Controls temperature of liquid inside the heated hoses. To set desired temperature, press the up or down button until you reach desired temperature From this point, the temperature control is completely automatic.
5	ON PUSH BUTTON	Powers the controller. It requires 10 seconds for the Controller to respond.
6	WHITE PILOT LIGHT	Indicates power on.
7	POLY PRESSURE GAUGE	Indicates material pressure.
8	ISO PRESSURE GAUGE	Indicates material pressure.
9	HYDRAULIC PRESSURE KNOB	Increases or decreases hydraulic pressure. Turn clockwise to increase pressure. Turn counter-clockwise to decrease pressure.
10	HYDRAULIC PRESSURE GAUGE	Indicates hydraulic pump pressure
11	ON PUSH BUTTON	Powers the controller. It requires 10 seconds for the Controller to respond.
12	ISO / POLY TEMPERATURE CONTROLLER	Controls temperature of liquid inside ISO heater. To set desired temperature, press the up or down button until you reach desired temperature. From this point, the temperature control is completely automatic.
13	OVER-PRESSURE RESET BUTTONS	When over-pressure is detected, the hydraulic power pack will be shut down, and will remain off until pressure is reduced and the push button is reset.
14	ON PUSH BUTTON	Power On To the hydraulic power pack.
15	OFF PUSH BUTTON	Power Off to the hydraulic power pack.
16	COUNTER	Counts pumps cycles. .042 GPC / .159 LPC
17	RETRACT SWITCH	Retracts pumps to the full down stroke position to protect pump shafts.
18	HYDRAULIC OIL FILL CAP	Remove cap to fill tank with <i>recommended</i> hydraulic oil.
19	ISO / POLY DUMP VALVES	Relieves pressure and material from ISO & POLY side.
20	HOSE THERMOCOUPLE OUTLET	Power outlet for hose thermocouple.



## Section 2 - Operation: Start-Up Instructions



Never leave machine unattended while system power is on or system is running.

System running is defined as: preheat cycle of the hose heat, primary heaters, or any pump operation.

Machine operators must be familiar with the component functions and operation of the machine.

### Pre-Operation Check List

- A. Check that all fittings are securely tight.
- B. Check electrical hook-up (qualified electrician recommended).
- C. Main power switch on Control Box should be switched to OFF position.



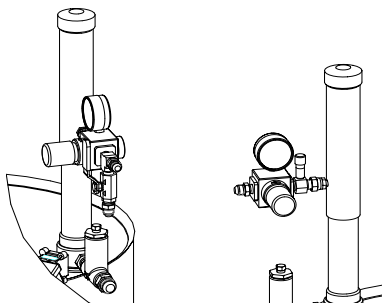
Do not place any part of the body in the path of the material spray. Do not point the gun at or near other personnel. Do not look into the mixing chamber orifice at any time. Because of the hazardous materials used in this equipment, it is recommended that the operator use an air mask, goggles, protective clothing, and other safety equipment as prescribed by current regulations, recommendations of the chemical suppliers, and the laws in the area where the equipment is being used.

### Initial Start-Up Procedure

With all material and air lines connected and power cable attached, the system is now ready for start-up.

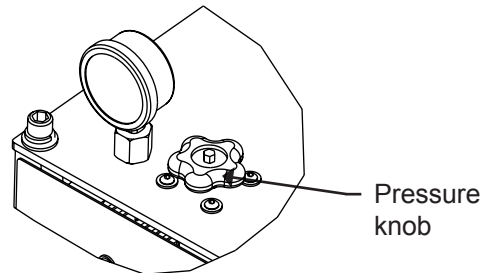
### Filling The System

1. The system is now ready to be filled with material. With transfer pumps in place, adjust regulators on transfer pumps to 30-50 psi (0.2-0.3 mpa, 2.1-3.4 bar) or until the pumps begin cycling, once the pumps begin loading up (cycle rate slows or stops) increase transfer pump air pressure to 100 psi. (0.7 mpa, 7 bar) to fill the system.

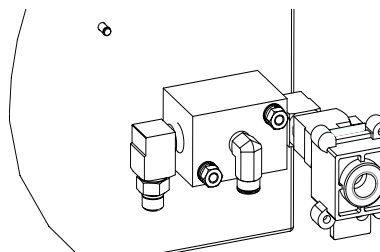


If the transfer pumps can not move material adequately enough to properly prime the system it may be necessary to start the hydraulic power pack.

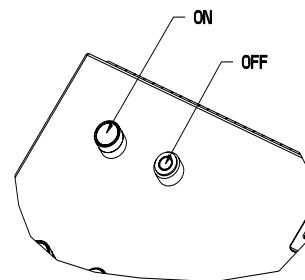
- a. Ensure hydraulic pressure knob is turned completely **counter-clockwise**.



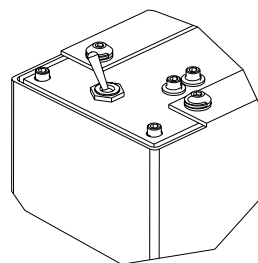
- b. Main air should be on to system manifold.



- c. Turn on hydraulic power pack.



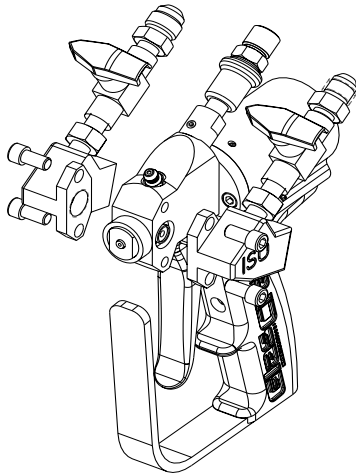
- d. Flip retract switch to "run" position.




The pumps will begin cycling to completely prime the system

## Section 2 - Operation: Start-Up Instructions

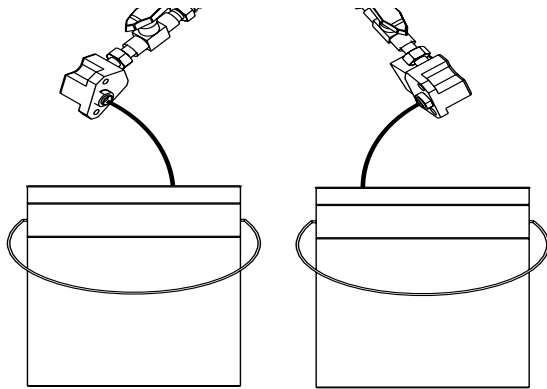
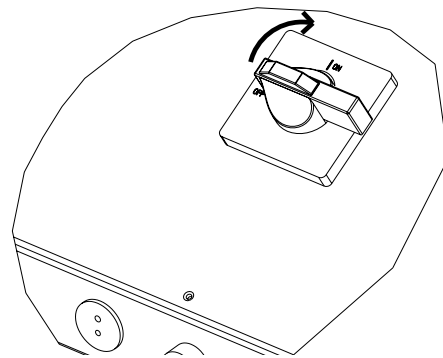
2. Remove ISO & POLY side blocks from gun.  
**MAKE SURE VALVES ARE OFF!**



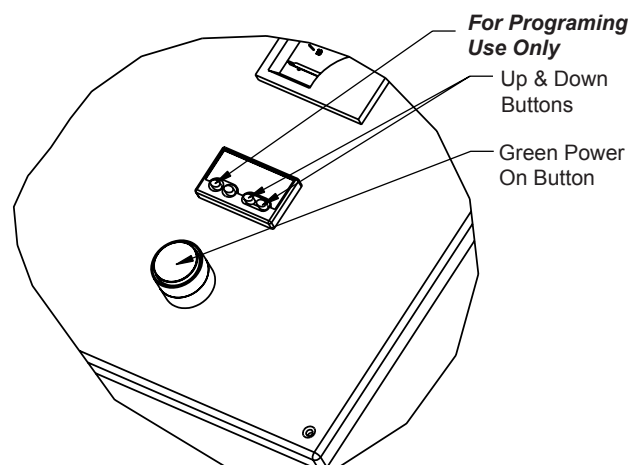
 Before re-assembling Side Blocks, lubrication can be applied by dabbing a white lithium grease into holes inside of Gun Front Housing and wiping grease over Side-Block Seals. Grease will purge itself when air valve is turned on at Gun and Gun is triggered.


6. Clean and lubricate the side blocks and seals thoroughly and re-assemble them to the gun. Make certain that the side block screws are tightened securely.
7. Refer to material manufacturers operating instructions for proper preparation of material, i.e, mixers, etc.
8. Turn main power Switch to ON position.

3. Place separate clean containers under each individual side block. Slowly open material valves (black arrow forward) on each side block to allow trapped air to escape the hose and material to flow into the containers until all air is purged from the material system.



9. Turn on hose control:
  - a. Push in the green button.
  - b. Press either up or down arrow buttons on the controller until desired temperature setting is achieved.



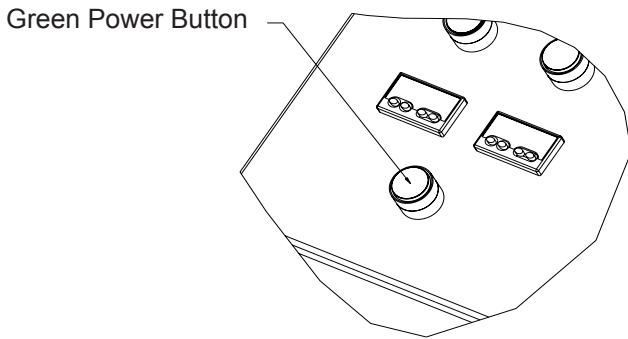
 Remember to dispense one to two gallons of material to clear the system of grease and plasticizer that was used during factory testing.

4. Close the manual material valves. Material pressure gauges should now register approximately equal pressure.
5. Dispose waste material properly and in accordance with chemical suppliers instructions and local, state and federal regulations.

## Section 2 - Operation: Start-Up Instructions

9. Turn on hose control:
  - a. Push in the green button.
  - b. Press either up or down arrow buttons on the controller until desired temperature setting is achieved.

10. Turn on the ISO & POLY Heaters.

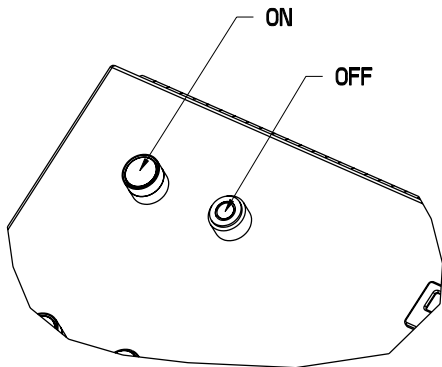


Turn transfer pump air regulator on slowly. Pumps should cycle slowly until hoses are full of material.



*Straighten hose out flat, to avoid uneven heating and damage to internal wiring of the hose assembly.*

11. Turn on Hydraulic Power Pack



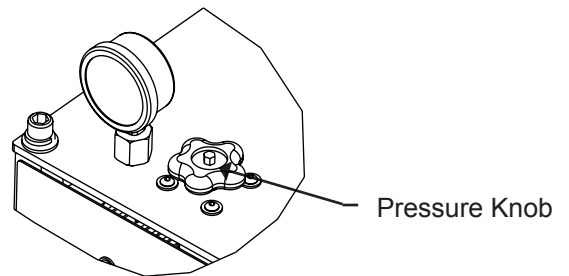
Allow enough time for hose to warm up (approx. 30 minutes). Remember that the heated hose does not have a delta rating. The heated hose's function is to maintain the heat generated by the primary heaters during system operation, and preheat material during initial start-up. The hose should be set to maintain a temperature close to the set point of the primary heaters.

To see the actual temperature of the liquid in the hose, push the blue button once and release. The actual temperature will then be displayed for 10 seconds.

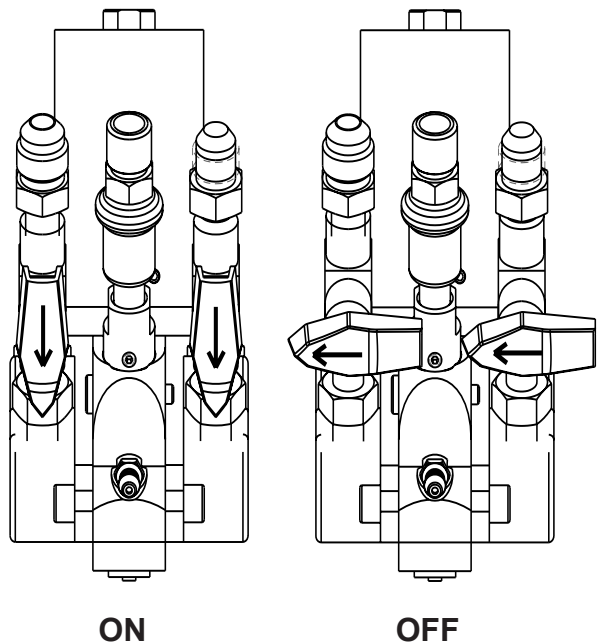
12. Adjust temperature to desired setting. ISO and POLY controllers function exactly the same as the hose controller.

Allow enough time for the material to be heated (approximately 3-5 minutes).

13. Slowly adjust hydraulic pressure knob **clockwise** on the system to desired pressure.

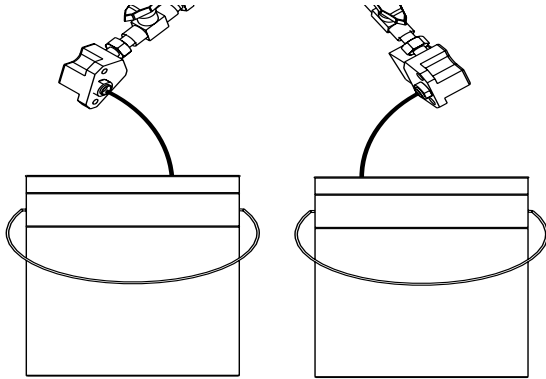


14. Turn purge air and material valves ON at the gun.



## Section 2 - Operation: Start-Up Instructions

- 15.** If one side registers considerably more pressure than the other side, go to the high pressure side and bleed off some pressure by slightly opening the manual material valve on the side block over the container. Bleed pressure until both sides are approximately the same pressure.



*Material will dispense at high pressure. follow all safety precautions*

- 16.** Relieve any excess pressure by triggering the gun.



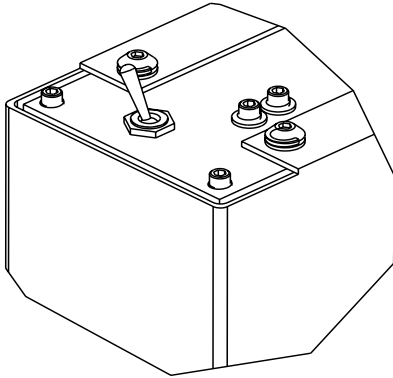
*The Emergency Stop Switch is located on the top right side of the Box Panel, when depressed, it will shut down the power to the system. To reset, turn the "red" push button.*

- 17.** The system is now ready for operation.

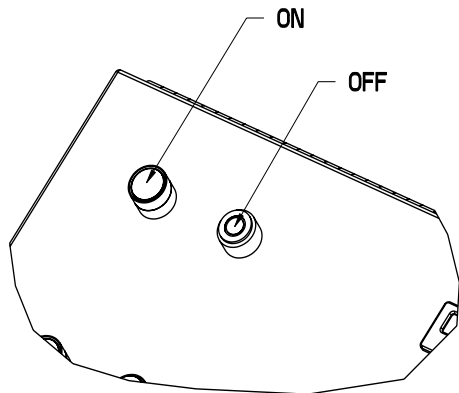
## Section 2 - Operation: Shut-Down Instructions

### System Shut-Down

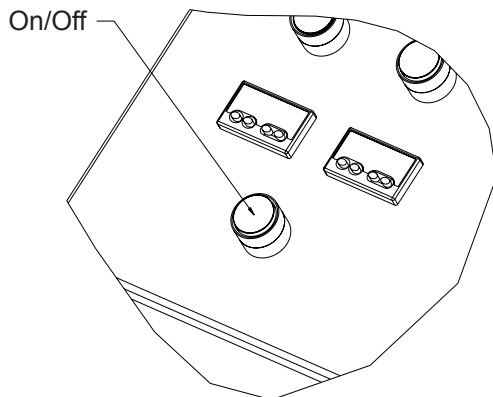
1. Flip retract switch from “run” position.



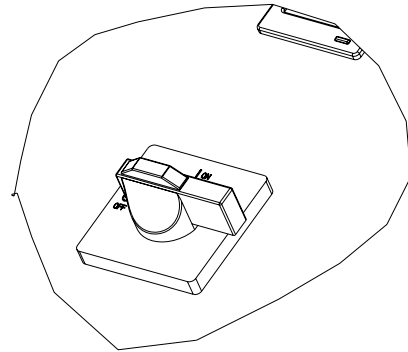
2. Trigger gun to send pumps into full downstroke.
3. Turn off hydraulic power pack.



4. Turn off primary heaters.



5. Turn main power switch off.



6. Refer to gun manual for proper gun maintenance.
7. Reduce hydraulic pressure knob setting to ZERO.
8. Visually inspect entire system for leaks.
9. Turn OFF System.



*Do not bleed fluid pressure from the system.*

### Storing The Hose

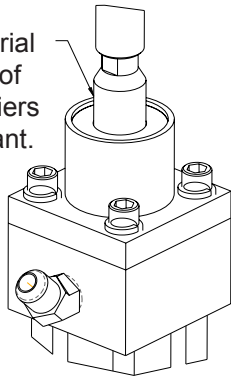
Coil the hose with a minimum diameter of 4 ft., To avoid kinking and subsequent damage to the internal wiring of the hose assembly.

## Section 2 - Operation: Daily Start-Up Instructions

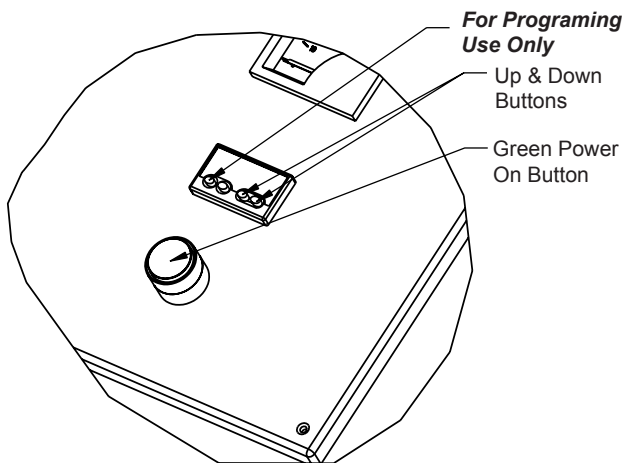
### System Daily Start-Up

1. Uncoil hose.
2. Ensure desiccant dryer beads are still purple and have not changed to pink.
3. Check and lube top of the fluid section.

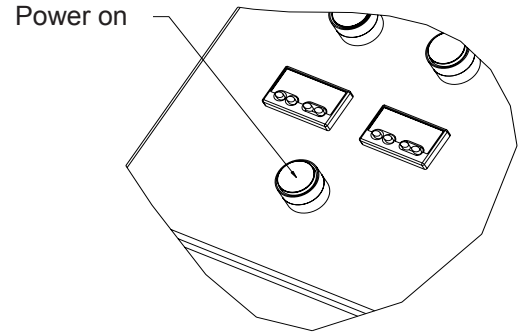
Wipe off residual material and add a tablespoon of DOP or material suppliers recommended lubricant.



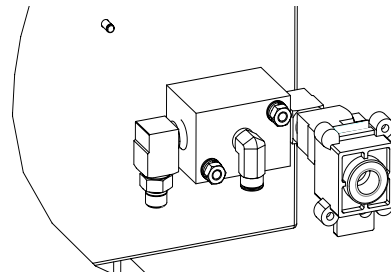
4. Check material screens at the gun and transfer pumps.
5. Start the drum mixer; follow material suppliers specifications. (run 20-30 minutes)
6. Turn on the hose controller and set the temperature according to material suppliers specifications.



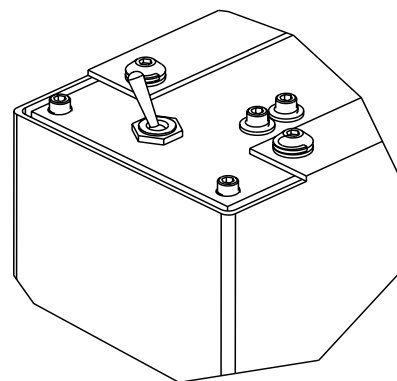
7. Once the hose temperature reaches desired set point, It's ok to turn on the primary heaters and set temperature to material suppliers specifications.



8. Depress yellow slide valve to open main air to gun and transfer pumps.



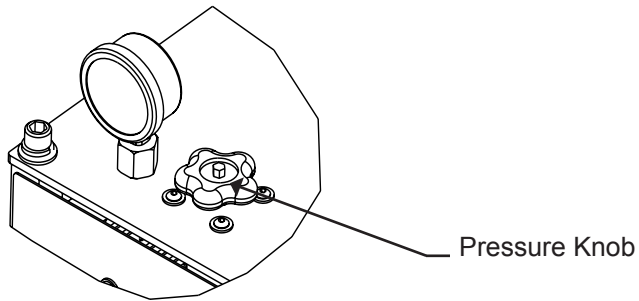
9. Flip retract switch to "run"



## Section 2 - Operation: Daily Start-Up Instructions

### System Daily Start-Up

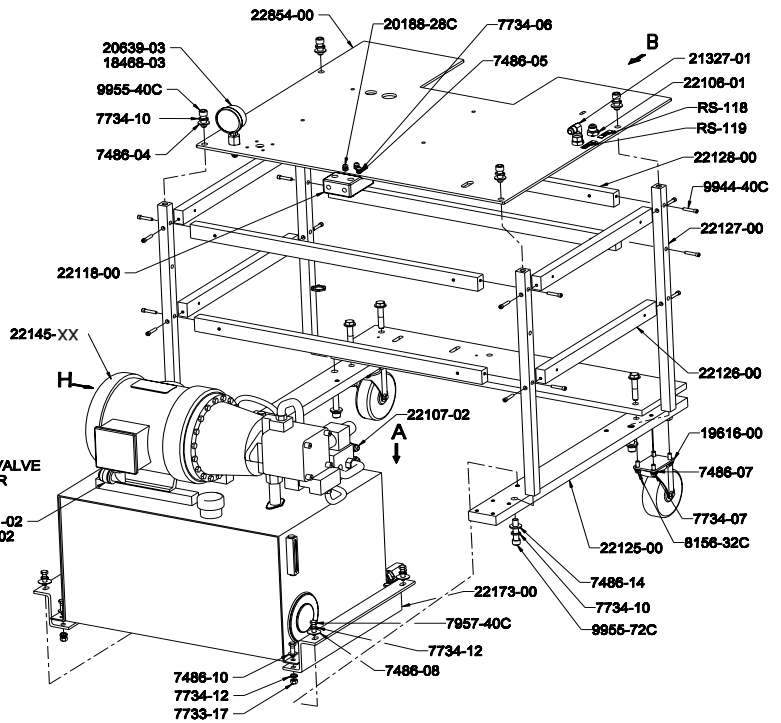
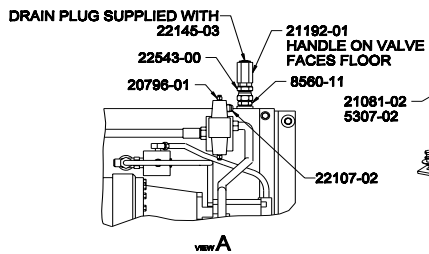
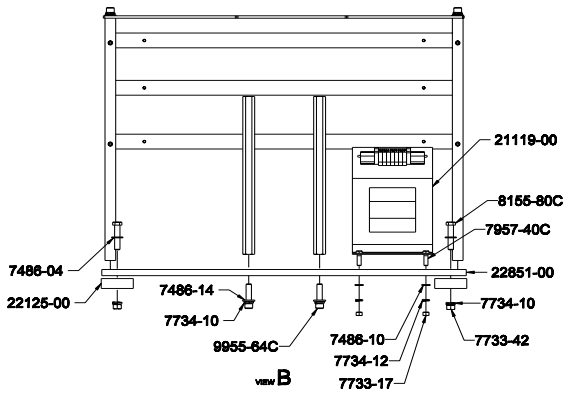
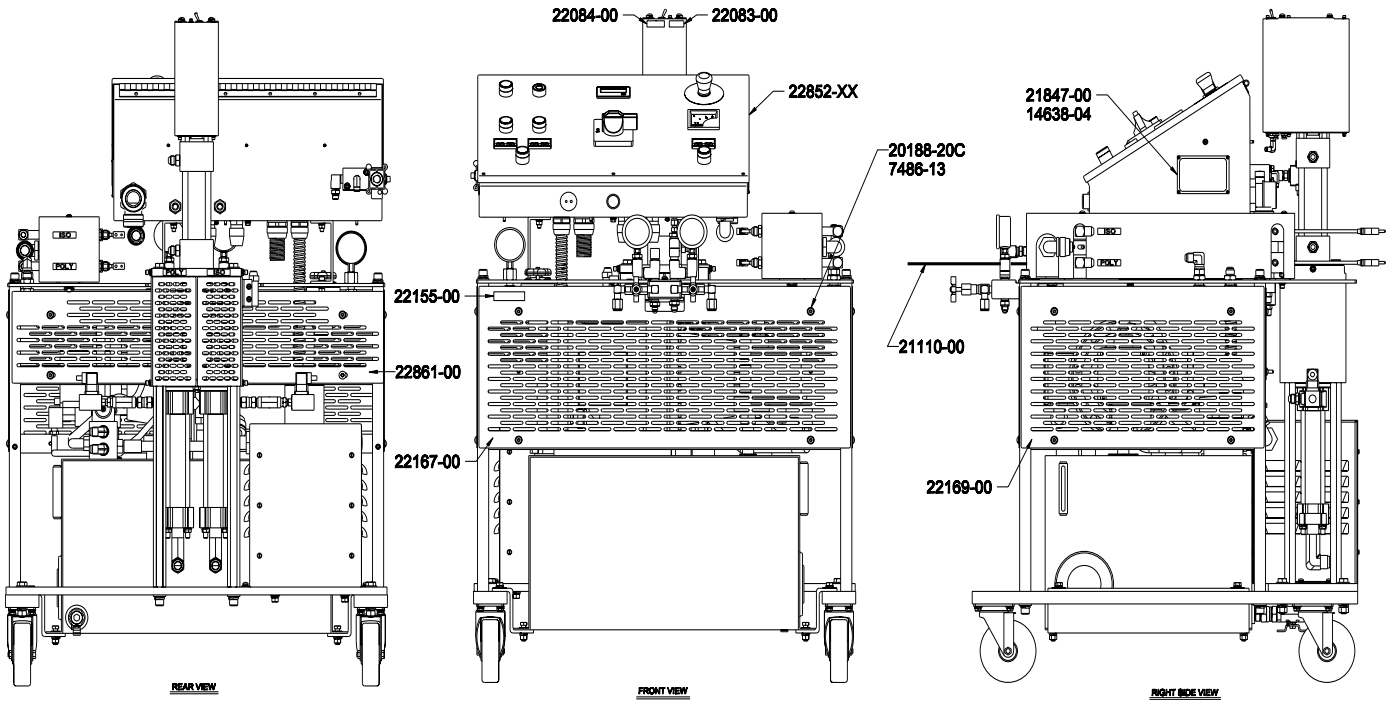
10. Increase hydraulic pressure to desired pressure.



11. Perform Probler / Probler P2 side block seal integrity test.
12. Perform Probler / Probler P2 high-pressure ball valve test.
13. **READY TO SPRAY!**

# Section 3 - General Information: Assembly Drawings

## 22850-XX Unit Assembly

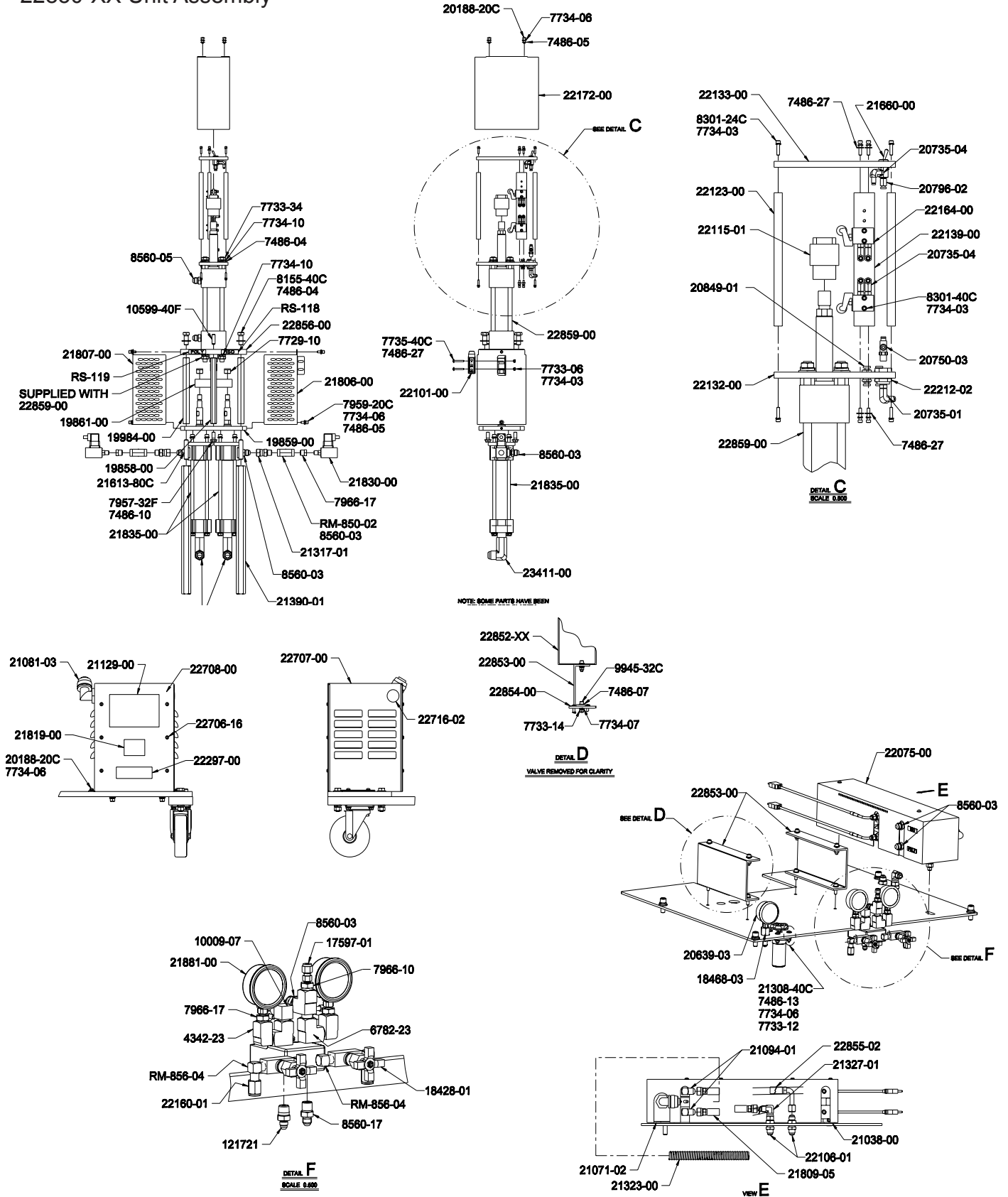


\* NOTE: Use the 22145-05 power pack with 22850-01.



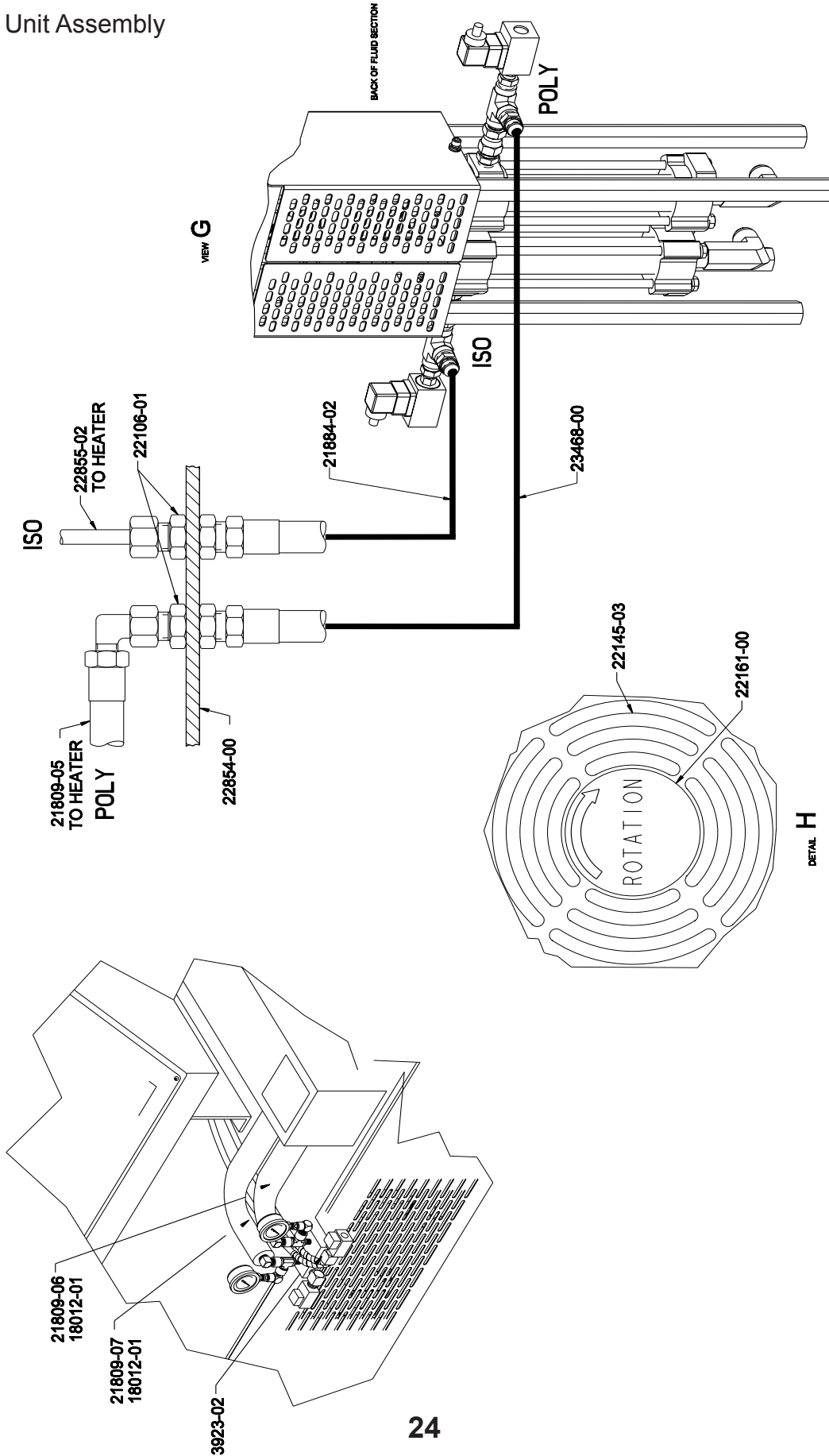
# Section 3 - General Information: Assembly Drawings

## 22850-XX Unit Assembly



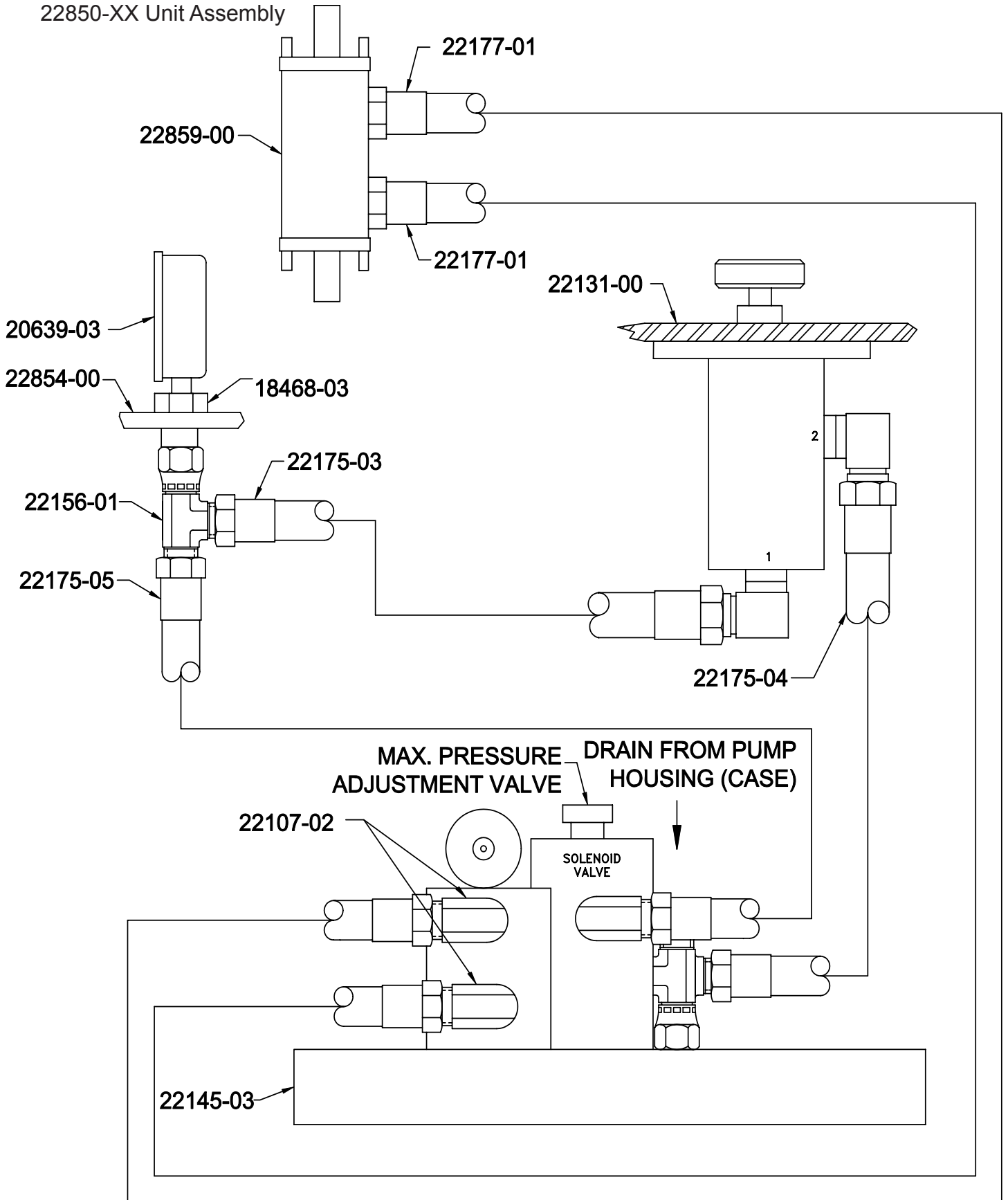
# Section 3 - General Information: Assembly Drawings

22850-XX Unit Assembly



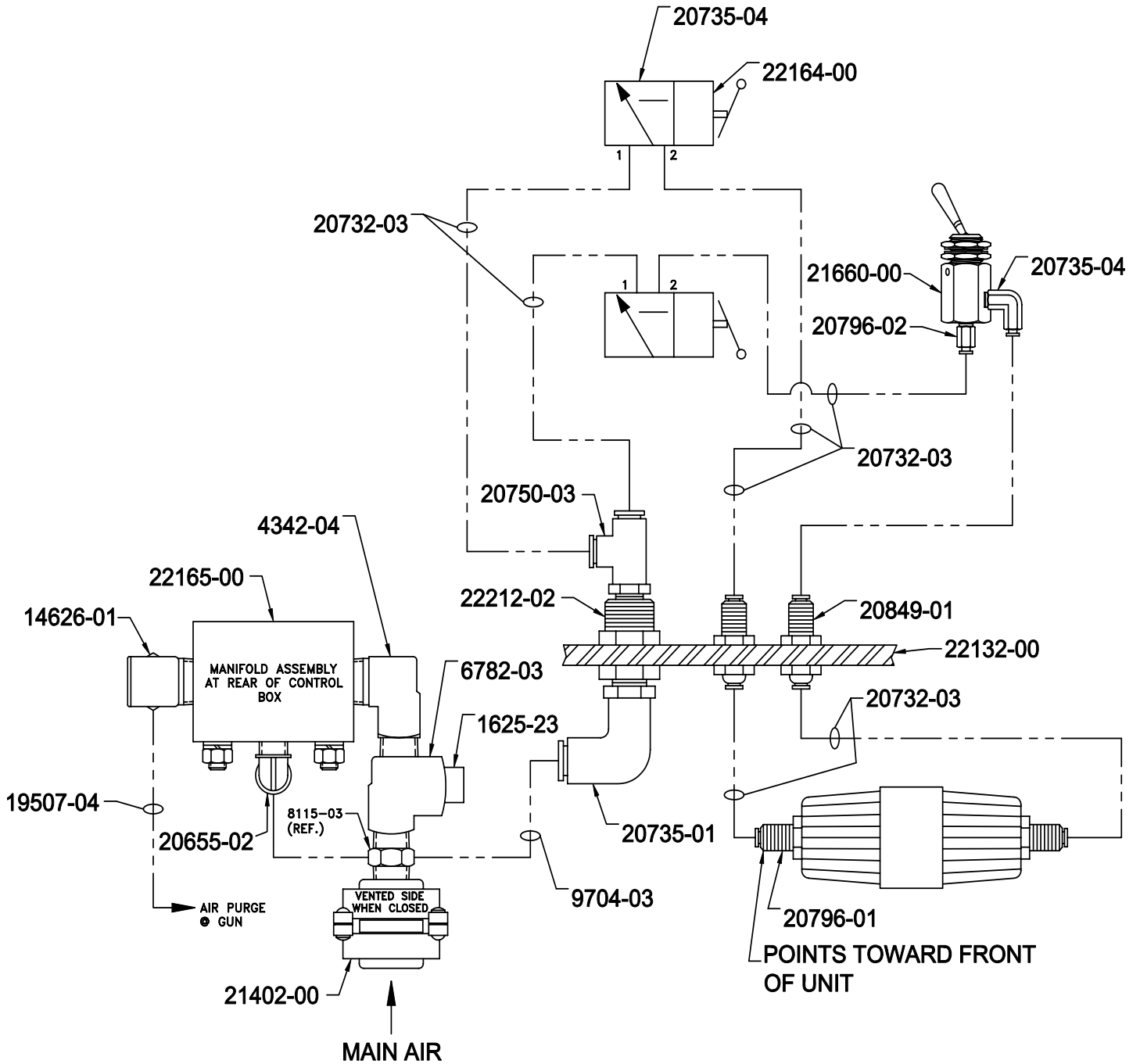
# Section 3 - General Information: Assembly Drawings

22850-XX Unit Assembly



# Section 3 - General Information: Assembly Drawings

22850-XX Unit Assembly



## Section 3 - General Information: Assembly Drawings

### 22850-XX Unit Parts List

Part Number	Description
RM-850-02	TEE FITTING
RM-856-04	ELBOW FITTING
RS-118	ISO DECAL
RS-119	POLY DECAL
10009-04	ELBOW FITTING
10009-06	ELBOW FITTING
10009-07	ELBOW FITTING
10599-40F	SET SCREW
13424-03	CABLE TIE
14638-04	RIVET
17597-01	CONNECTOR FITTING
18012-01	HEATED HOSE COVER
18428-01	NEEDLE VALVE
18468-03	FITTING
19507-04	AIR HOSE ASSEMBLY
19616-00	SWIVEL CASTER
19858-00	AIR MOTOR STAND-OFF
19859-00	PUMP MOUNTING PLATE
19861-00	PUMP SADDLE
19984-00	AIR MOTOR STAND-OFF
20188-20C	SCREW
20188-28C	SCREW
20639-03	GAUGE
20732-03	TUBING
20735-01	ELBOW FITTING
20735-04	ELBOW FITTING
20750-03	SWIVEL TEE FITTING
20796-01	FITTING
20796-02	FITTING
20849-01	UNION BULKHEAD FITTING
21094-01	ELBOW FITTING
21119-00	TRANSFORMER
21129-00	TRANSFORMER DECAL
21308-40C	MACHINE SCREW
121721	CONNECTOR FITTING
21317-01	SWIVEL FITTING
21323-00	FLEXIBLE CONDUIT
21327-01	ELBOW FITTING
21390-01	AIR MOTOR STAND-OFF
21613-80C	SET SCREW
21660-00	2-WAY CONTROL VALVE
21806-00	LEFT GUARD
21807-00	RIGHT GUARD
21809-05	MATERIAL HOSE
21809-06	MATERIAL HOSE
21809-07	MATERIAL HOSE

Part Number	Description
21819-00	LIVE WIRE DECAL
21835-00	PUMP ASSEMBLY
21847-00	CE PLATE
21881-00	PRESSURE GAUGE
21884-02	MATERIAL HOSE
22074-00	THERMOCOUPLE ASSEMBLY
22075-00	HEAT EXCHANGER ASSEMBLY
22083-00	RUN DECAL
22084-00	RETRACT DECAL
22105-00	(ISO) HEAT EXCHANGER ASSEMBLY
22101-00	ROLLER LIMIT SWITCH
22106-01	BULKHEAD FITTING
22107-02	ELBOW FITTING
22110-00	(POLY) HEAT EXCHANGER ASSEMBLY
22115-01	UPPER SHAFT CAM ADAPTER
22118-00	ISOLATION HOSE MOUNTING BLOCK
22123-00	CHANGEOVER STAND-OFF
22124-00	BOTTOM PUMP BRACKET
22125-00	MOUNTING PLATE
22126-00	SIDE FRAME SUPPORT
22127-00	VERTICAL FRAME SUPPORT
22128-00	FRONT FRAME SUPPORT
22132-00	BOTTOM CHANGEOVER PLATE
22133-00	TOP CHANGEOVER PLATE
22139-00	LIMIT SWITCH MOUNTING BRACKET
22145-03	HYDRAULIC MOTOR
22155-00	DECAL HYDRAULIC PRESSURE
22156-01	TEE FITTING
22160-01	CAP
22161-00	ROTATION DECAL
22164-00	DIRECTIONAL CONTROL VALVE
22167-00	FRONT HYDRAULIC MOTOR COVER
22169-00	SIDE HYDRAULIC MOTOR COVER
22172-00	COUNTER CHANGEOVER GUARD
22173-00	HYDRAULIC PUMP SUPPORT BRACKET
22175-03	MATERIAL HOSE
22175-04	MATERIAL HOSE
22175-05	MATERIAL HOSE
22177-01	MATERIAL HOSE
22212-02	BULKHEAD FITTING
22297-00	CONNECTION NOTICE DECAL
22543-00	SWIVEL FITTING

## Section 3 - General Information: Assembly Drawings

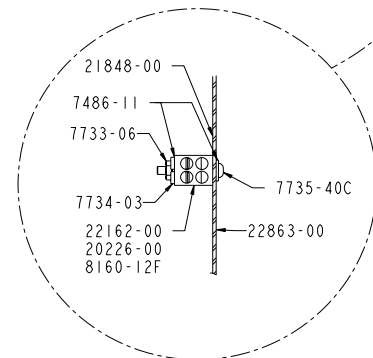
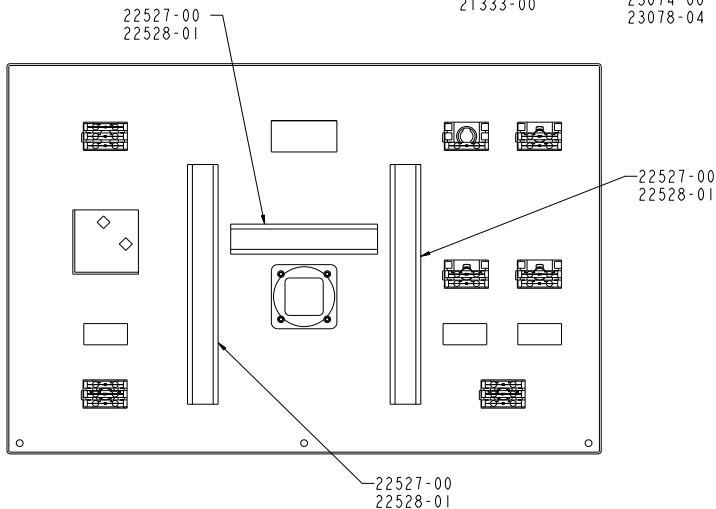
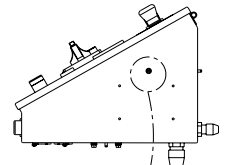
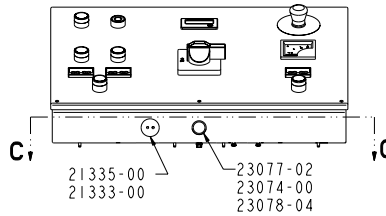
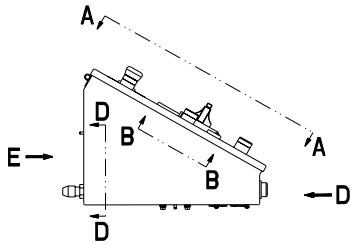
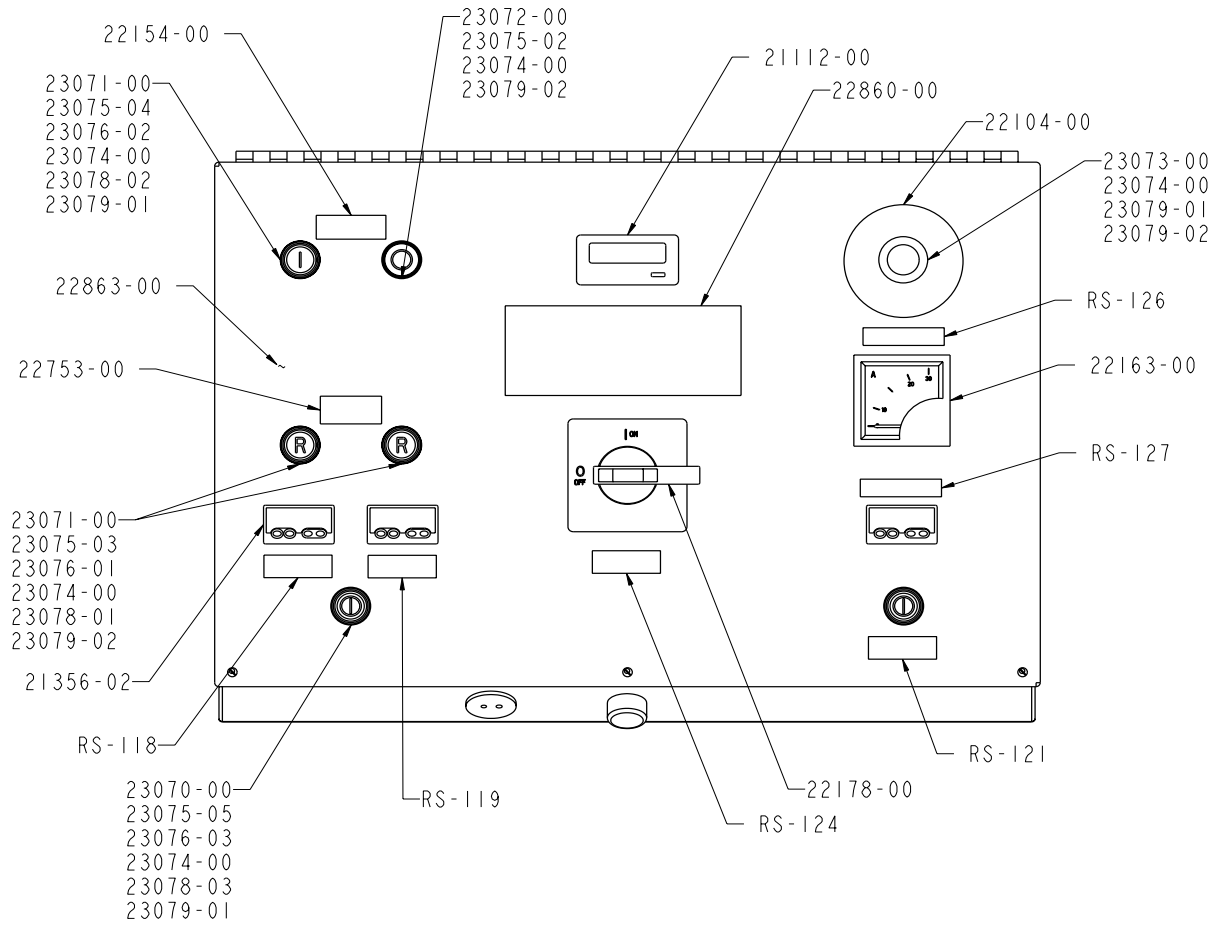
### 22850-XX Unit Parts List

Part Number	Description
22706-16	SCREW
22707-00	TRANSFORMER COVER
22716-02	HOLE PLUG
22851-00	BOTTOM BRACKET
22852-XX	CONTROL BOX ASSEMBLY
22853-00	CONTROL BOX SUPPORT
22854-00	MOUNTING PLATE
22855-02	MATERIAL HOSE
22856-00	MOUNTING PLATE
22859-00	HYDRAULIC CYLINDER
22861-00	REAR GUARD
23411-00	ELBOW FITTING
23468-00	HOSE
3795-00	TERMINAL RING LUG
3923-02	SPIRAL WRAP
4342-23	TEE PIPE FITTING
5307-02	CONDUIT NUT
6782-23	TEE FITTING
7208-02	WIRE NUT
7208-04	WIRE NUT
7486-04	FLAT WASHER
7486-05	FLAT WASHER
7486-07	FLAT WASHER
7486-08	FLAT WASHER
7486-10	LOCK WASHER
7486-13	FLAT WASHER
7486-14	FLAT WASHER
7486-27	FLAT WASHER
7729-10	NUT
7733-06	NUT
7733-12	NUT
7733-14	NUT
7733-17	NUT
7733-34	NUT
7733-42	NUT
7734-03	LOCK WASHER
7734-06	LOCK WASHER
7734-07	LOCK WASHER
7734-10	LOCK WASHER
7734-12	LOCK WASHER

Part Number	Description
7735-40C	SCREW
7957-40C	SCREW
7958-32C	SCREW
7957-32F	SCREW
7957-40F	SCREW
7959-20C	SCREW
7966-10	PIPE FITTING
7966-17	PIPE FITTING
8155-40C	SCREW
8155-80C	SCREW
8156-32C	SCREW
8301-24C	SCREW
8301-40C	SCREW
8560-03	CONNECTOR FITTING
8560-05	CONNECTOR FITTING
8560-11	CONNECTOR FITTING
8560-17	CONNECTOR FITTING
8846-03	COPPER WIRE
9704-03	TUBING
9944-40C	SCREW
9945-32C	SCREW
9955-40C	SCREW
9955-64C	SCREW
9955-72C	SCREW

# Section 3 - General Information: Sub Assembly Drawings

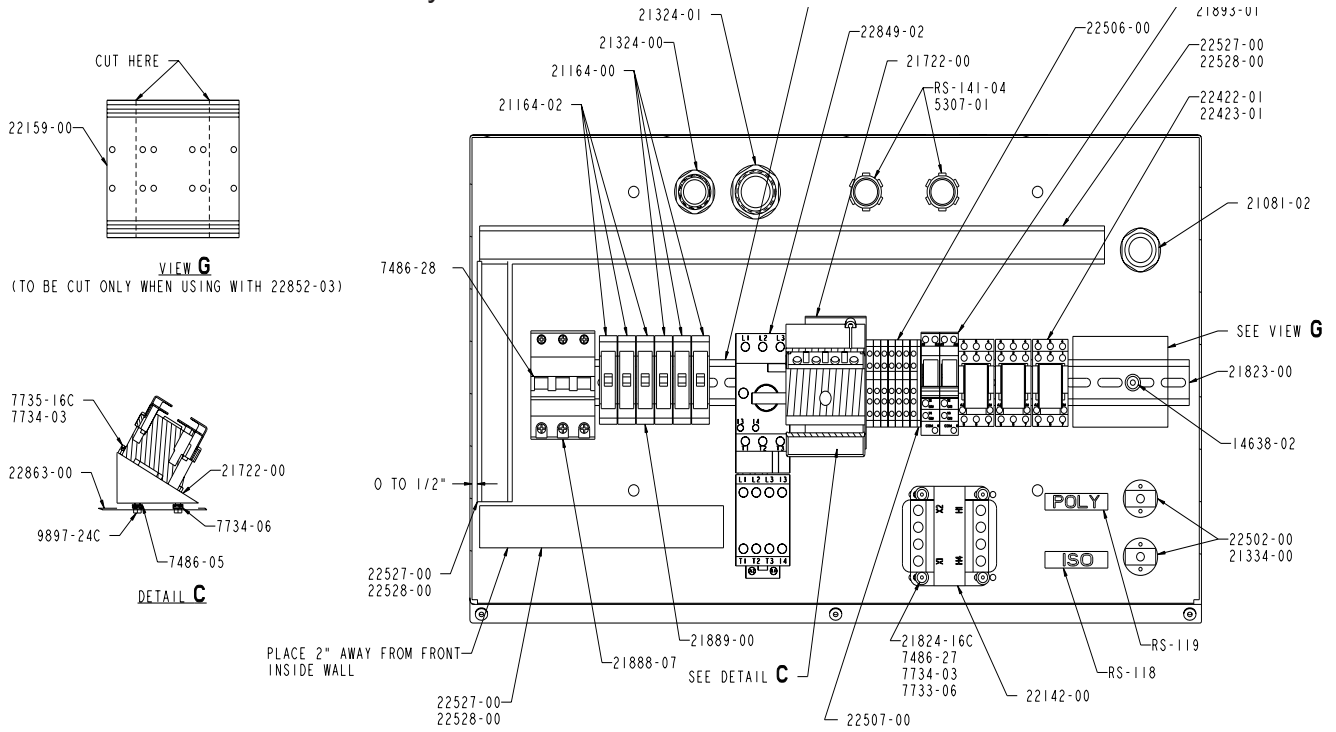
## 22852-XX Control Box Assembly



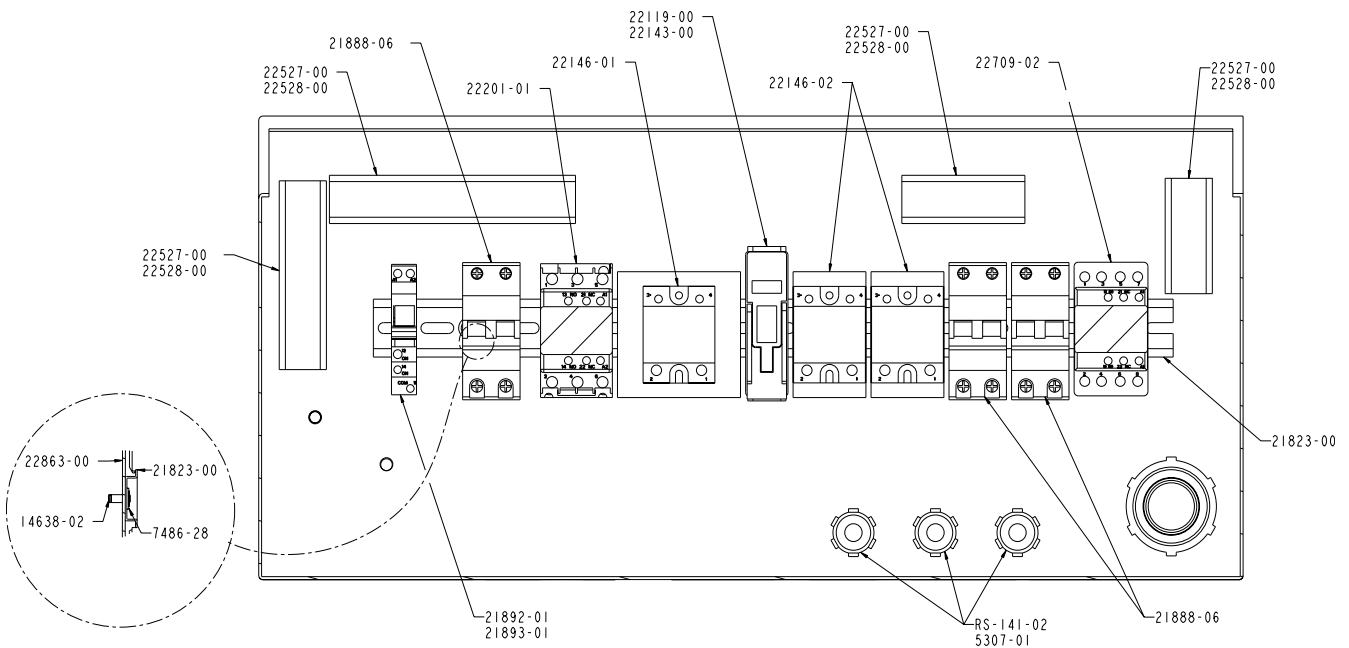
VIEW BB

# Section 3 - General Information: Sub Assembly Drawings

## 22852-XX Control Box Assembly



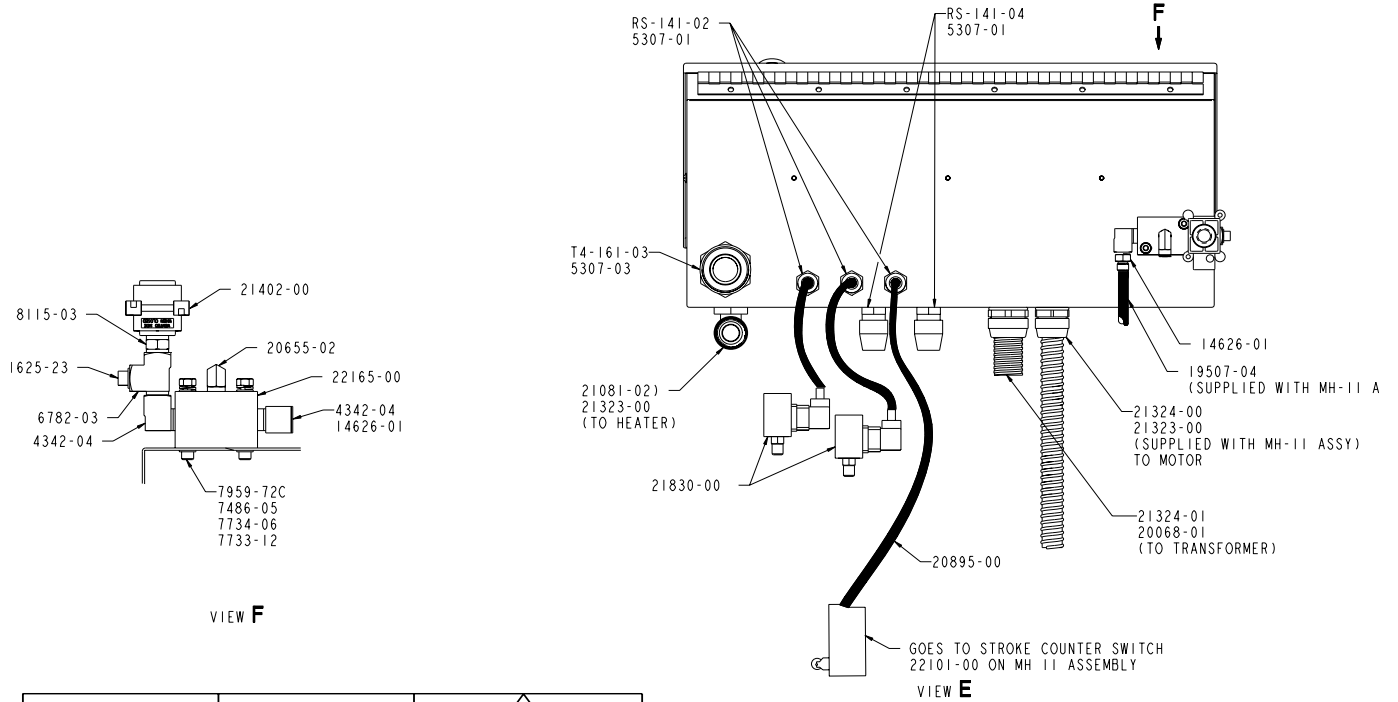
GLAS-CRAFT P/N	PHASE	7	8	9
22852-02	220 V., 3-PHASE 5 HP., 60 HZ.	22171-01	22174-01	22157-00 (3 REQ'D) 22158-00 (6 REQ'D)
22852-03	380 V., 3-PHASE 5 HP., 50 HZ.	22171-02	22174-02	22157-00 22158-00 (2 REQ'D)






# Section 3 - General Information: Sub Assembly Drawings

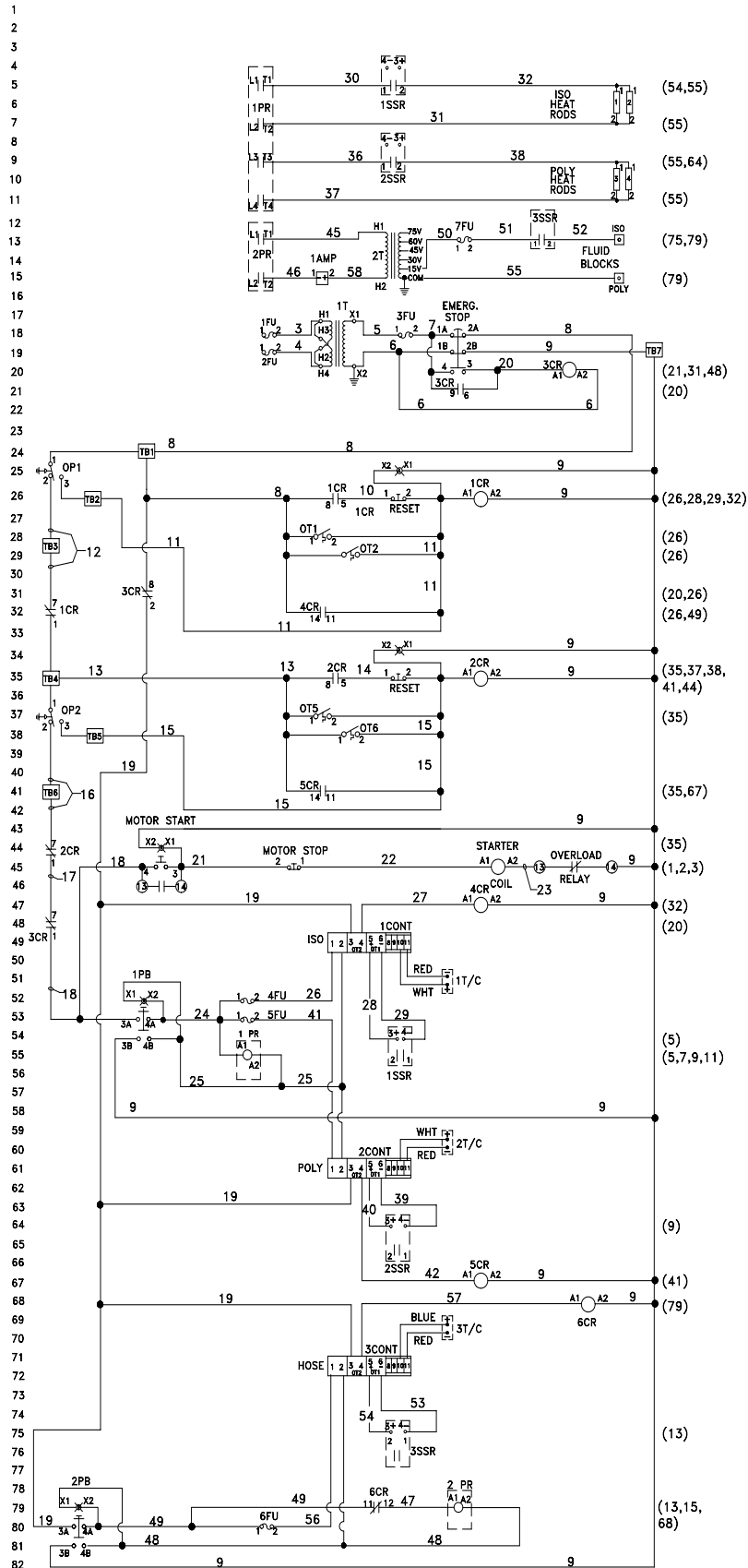
## 22852-XX Control Box Assembly



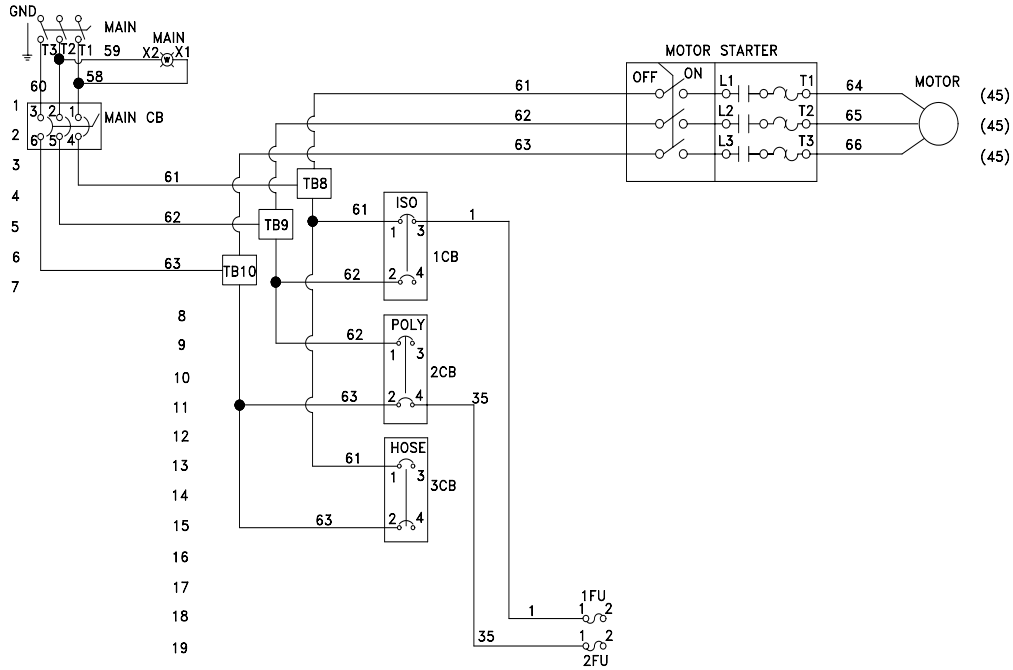
GLAS-CRAFT P/N	PHASE	
22852-02	220V, 3-PHASE 5 HP., 60 HZ.	T4-163-03 (11' REQ'D)
22852-03	380V, 3-PHASE 5 HP., 50 HZ.	22718-01 (11' REQ'D)

# Section 3 - General Information: Sub Assembly Drawings

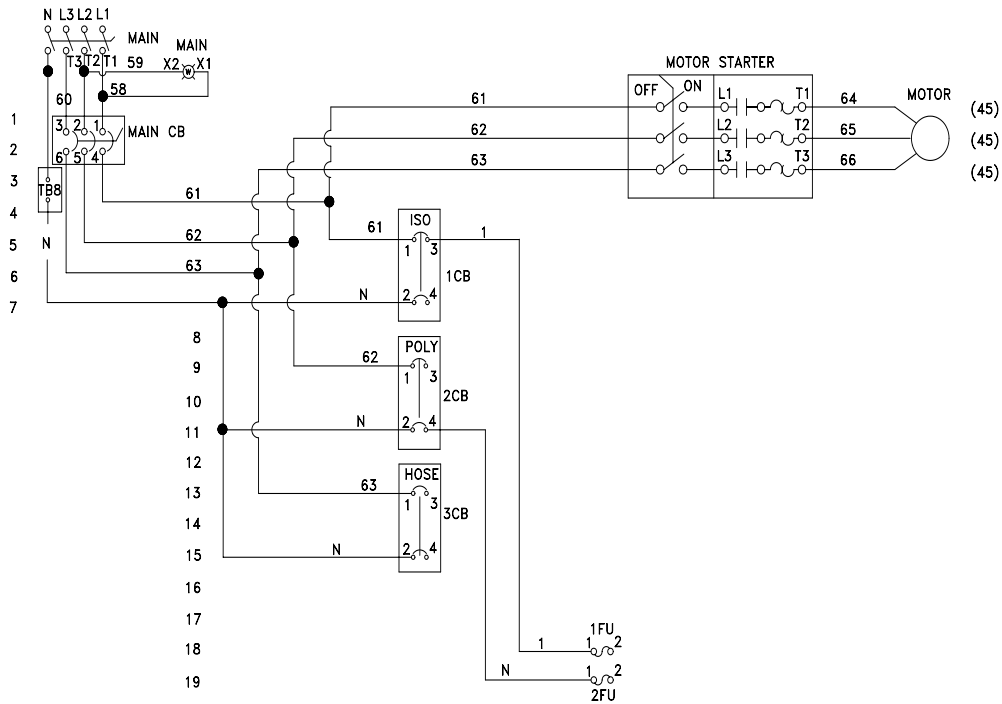
## 22852-XX System Generic Ladder Schematic



## Section 3 - General Information: Sub Assembly Drawings



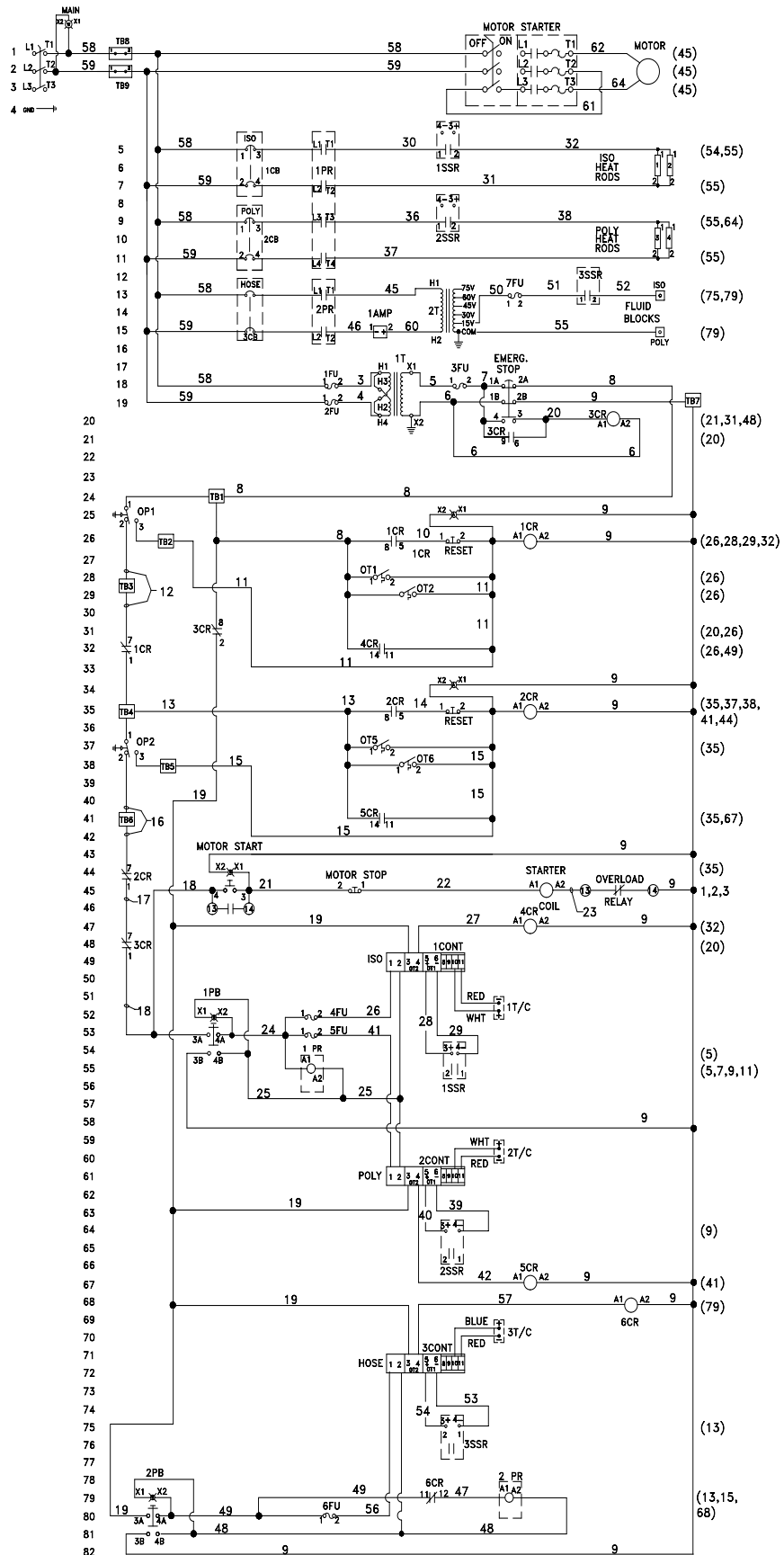
22852-02  
220V, 3-PHASE, 5HP, 60Hz



22852-03  
380V, 3-PHASE, 5HP, 50Hz

# Section 3 - General Information: Sub Assembly Drawings

## 22852-01 System Ladder Schematic



## Section 3 - General Information: Sub Assembly Drawings

### 22852-XX Parts List

Part Number	Description	Qty.
13424-01	CABLE TIE	25
14626-01	FITTING	1
14638-02	RIVET	7
1625-23	PLUG FITTING	1
20068-01	FLEXIBLE CONDUIT	1.583
20226-00	SET SCREW	1
20655-02	ELBOW FITTING	1
20895-00	CABLE	3.83
21081-02	CONNECTOR	1
21110-00	#6 WIRE	
21112-00	LCD COUNTER	1
21150-00	TERMINAL LUG	4
21164-00	1/2AMP FUSE	3
21164-02	2AMP FUSE	3
21324-00	PLASTIC CONDUIT	1
21324-01	PLASTIC CONDUIT	1
21333-00	THERMOCOUPLE-GRADE WIRE	
21334-00	THERMOCOUPLE-GRADE WIRE	
21335-00	CIRCULAR PANEL JACK	1
21356-02	MICROPROCESSOR	3
21402-00	LOCKOUT VALVE	1
21722-00	MOUNTING BRACKET	1
21823-00	DIN RAIL	3.25
21824-16C	SCREW	4
21830-00	HIGH PRESSURE SWITCH	2
21848-00	PE DECAL	1
21888-06	CIRCUIT BREAKER	3
21888-07	CIRCUIT BREAKER	1
21889-00	FUSEHOLDER	6
21892-01	FINDER RELAY	3
21893-01	SOCKET RELAY	3
22104-00	EMERGENCY STOP DECAL	1
22119-00	FUSE BLOCK	1
22142-00	TRANSFORMER	1
22143-00	63AMP FUSE	1
22146-01	SOLID STATE RELAY	1
22146-02	SOLID STATE RELAY	2
22154-00	HYDRAULIC POWER DECAL	1
22159-00	TERMINAL BLOCK COVER	1
22162-00	CONDUCTOR CONNECTOR	1
22163-00	AMMETER	1
22165-00	SPOOL VALVE MANIFOLD	1
22178-00	POWER SWITCH	1
22201-01	MECHANICAL CONTACTOR	1

Part Number	Description	Qty.
22422-01	RELAY	3
22423-01	RELAY SOCKET	3
22502-00	CIRCULAR PANEL JACK	2
22506-00	TERMINAL	7
22507-00	TERMINAL END COVER	1
22527-00	WIRING DUCT COVER	6.521
22528-00	WIRING DUCT	4.354
22528-01	WIRING DUCT	2.167
22709-02	MECHANICAL CONTACTOR	1
22753-00	OVERPRESSURE DECAL	1
22849-02	CONTROLLER	1
22860-00	MH-2 DECAL	1
22863-00	CONTROL BOX	1
23070-00	LATCHED PUSHBUTTON	2
23071-00	LATCHED PUSHBUTTON	3
23072-00	MONENTARY PUSHBUTTON	1
23073-00	E-STOP PUSHBUTTON	1
23074-00	PUSHBUTTON COUPLING PLATE	8
23075-02	"O" INSCRIPTION CAP	1
23075-03	"R" INSCRIPTION CAP	2
23075-04	"I" INSCRIPTION CAP	1
23075-05	"I/O" INSCRIPTION CAP	2
23076-01	YELLOW CAP	2
23076-02	CLEAR CAP	1
23076-03	GREEN CAP	2
23077-02	WHITE PILOT LIGHT	1
23078-01	YELLOW LED	2
23078-02	WHITE LED	1
23078-03	GREEN LED	2
23078-04	WHITE LED	1
23079-01	OPEN CONTACT BLOCK	6
23079-02	CLOSED CONTACT BLOCK	5
3201	PLASTIC TONGUE	3
3800-03	WIRE	
3800-08	WIRE	
4160-00	RING TERMINAL LUG	2
4342-04	ELBOW FITTING	2
5307-01	CONDUIT NUT	5
5307-03	CONDUIT NUT	1
6782-03	TEE FITTING	1
7361-00	TERMINAL RING LUG	11
7486-05	WASHER	6
7486-11	WASHER	2
7486-27	WASHER	4

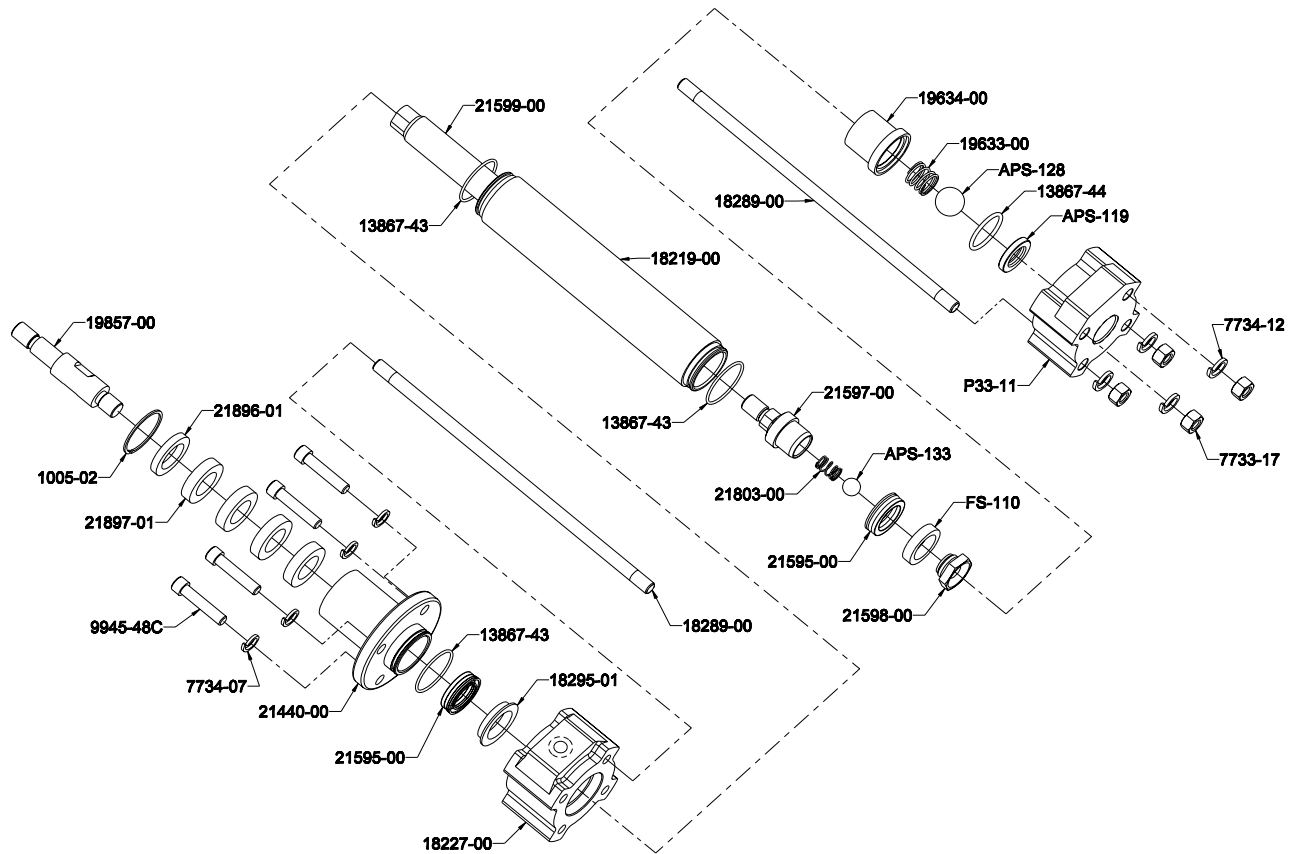
## Section 3 - General Information: Sub Assembly Drawings

### 22852-XX Parts List

<b>Part Number</b>	<b>Description</b>	<b>Qty.</b>
7486-28	WASHER	7
7733-06	HEX NUT	5
7733-12	HEX NUT	2
7734-03	LOCK WASHER	5
7734-06	LOCK WASHER	4
7735-40C	SCREW	1
7959-72C	SCREW	2
8115-03	NIPPLE FITTING	1
8160-12F	SET SCREW	4
8846-03	#10 WIRE	
8847-08	WIRE	
9897-24C	SCREW	2
RS-118	ISO DECAL	2
RS-119	POLY DECAL	2
RS-121	HOSE DECAL	1
RS-124	MAIN DECAL	1
RS-126	HOSE CURRENT DECAL	1
RS-127	HOSE CONTROL DECAL	1
RS-141-02	STRAIGHT GRIP CORD	3
RS-141-04	STRAIGHT GRIP CORD	2
T4-161-03	CABLE STRAIN RELIEF	1

## Section 3 - General Information: Sub Assembly Drawings

### 21835-00 Fluid Section Assembly

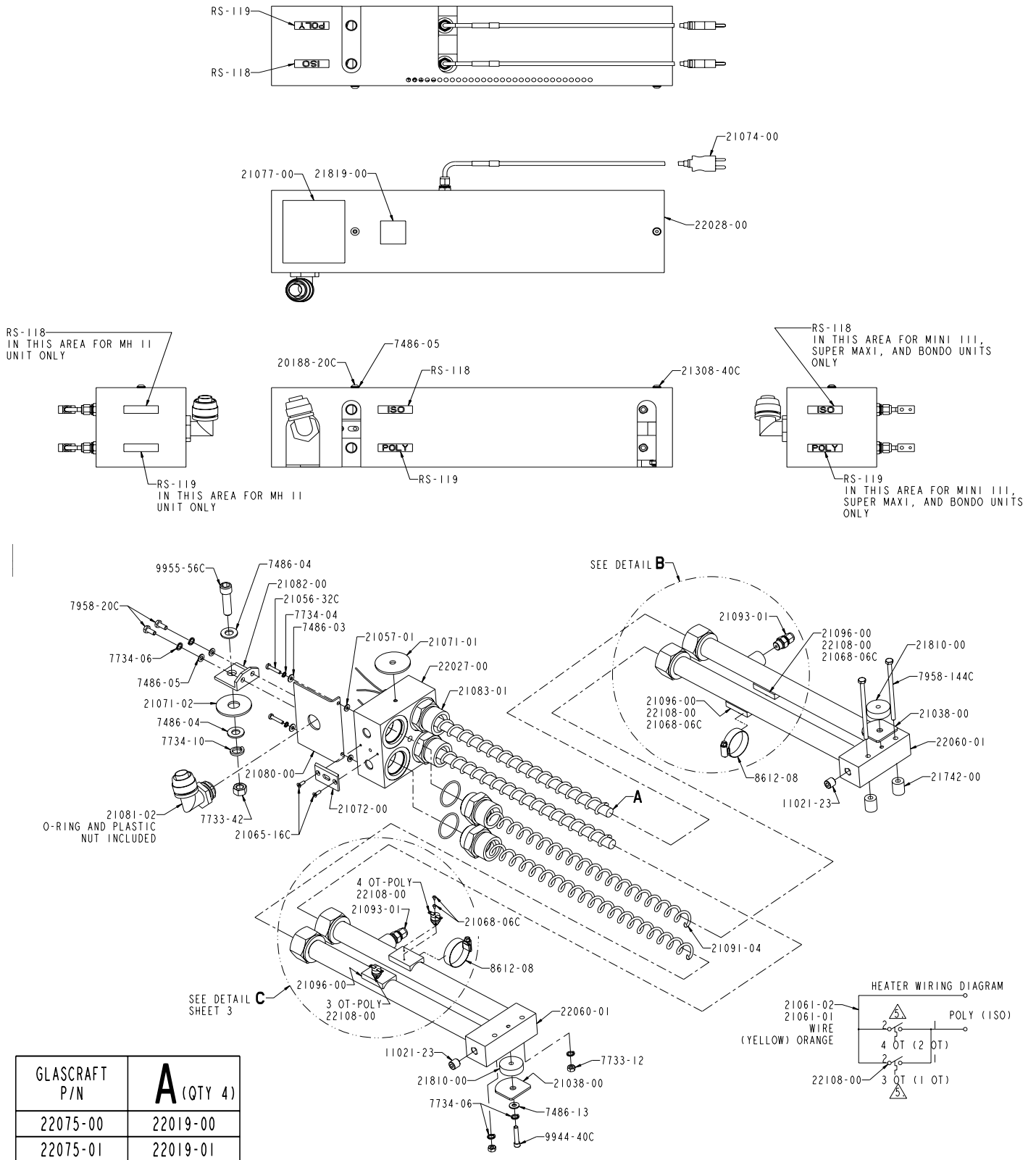


Part Number	Description	Qty.
APS-119	FOOT VALVE SEAT	1
APS-128	CHROME BALL	1
APS-133	SST BALL	1
FS-110	NYLON PISTON GUIDE	1
P33-11	PUMP BASE	1
1005-02	SNAP RING	1
13867-43	O-RING	3
13867-44	O-RING	1
18219-00	PUMP CYLINDER	1
18227-00	AIRLESS PUMP HEAD	1
18289-00	PUMP TIE ROD	4
18295-01	SUPPORT WASHER	1
19633-00	COMPRESSION SPRING	1
19634-00	FOOT VALVE HOUSING	1
19857-00	PUMP SHAFT EXTENSION	1
21440-00	SOLVENT CUP ADAPTER	1

Part Number	Description	Qty.
21595-00	PUMP SEAL	2
21597-00	TRANSFER HOUSING	1
21598-00	TRANSFER SEAT	1
21599-00	PUMP SHAFT	1
21803-00	COMPRESSION SPRING	1
21896-01	PACKING RETAINER	1
21897-01	FELT WIPER	4
7733-17	HEX NUT	4
7734-07	LOCK WASHER	4
7734-12	LOCK WASHER	4
9945-48C	SCREW	4

# Section 3 - General Information: Sub Assembly Drawings

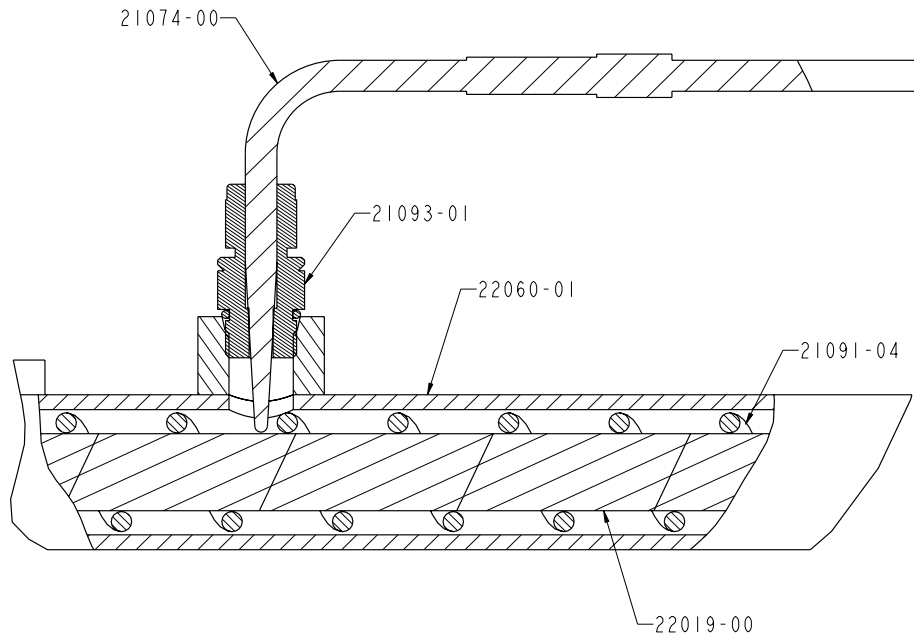
## 22075-00 Heat Exchanger Assembly





## Section 3 - General Information: Sub Assembly Drawings

### 22075-00 Heat Exchanger Assembly



Part Number	Description	Qty.
RS-118	ISO DECAL	3
RS-119	POLY DECAL	3
11021-23	PIPE PLUG	2
20188-20C	SCREW	1
21038-00	HARD FIBER WASHER	2
21056-32C	SCREW	2
21057-01	GLASS FIBER WASHER	2
21061-01	WIRE	0
21061-02	WIRE	0
21065-16C	SCREW	2
21068-06C	SCREW	8
21071-01	HARD FIBER WASHER	1
21071-02	HARD FIBER WASHER	1
21072-00	INSULATOR PAD	1
21074-00	THERMOCOUPLE	2
21077-00	DANGER HIGH VOLTAGE DECAL	1
21080-00	MOUNTING BRACKET CONNECTOR	1
21081-02	SWIVELLOK CONNECTOR	1
21082-00	MOUNTING BRACKET	1
21091-04	TURBULATOR SPRING	4

Part Number	Description	Qty.
21093-01	FITTING	2
21096-00	THERMOSTAT	4
21308-40C	SCREW	1
21742-00	END CAP SPACER	2
21810-00	COVER SPACER	2
21819-00	LIVE WIRE DECAL	1
22019-00	HEATER ELEMENT	4
22027-00	END PLATE	1
22028-00	HEATER COVER	1
22060-01	SENSOR TUBE ASSEMBLY	2
22108-00	OVERTEMP SWITCH	4
7486-03	FLAT WASHER	2
7486-04	FLAT WASHER	2
7486-05	FLAT WASHER	4
7486-13	FLAT WASHER	1
7733-12	HEX NUT	2
7733-42	HEX NUT	1
7734-04	LOCK WASHER	2
7734-06	LOCK WASHER	5
7734-10	LOCK WASHER	1
7958-144C	SCREW	2
7958-20C	SCREW	2
8612-08	HOSE CLAMP	4
9944-40C	SCREW,SHDC,SS,.250-20X	1
9955-40C	SCREW,SHDC,CS,.500-13X	1

**Note**

When replacing thermocouple p/n: 21074-00, use kit p/n: 21214-01. Be sure thermocouple is touching heater element before tightening.

## Section 3 - General Information: Maintenance

### Daily Maintenance

The wiper/lubrication cup at the top of each fluid section is designed to keep piston shaft clean and lubricate throat seal.

### Weekly Maintenance

1. Wipe any residue from the mouth of the lubrication cup.
2. Add 1 teaspoon of a suitable lubricating solution.

## Section 3 - General Information: Troubleshooting

### Over Pressure System Protection

The system incorporates monitors for high pressure monitoring. These monitoring devices will prevent the system from continued operation if high pressure situations develop.

There are pressure sensors located on each side of the hose mounting block. The high pressure sensor is located at the outbound of the fluid section.

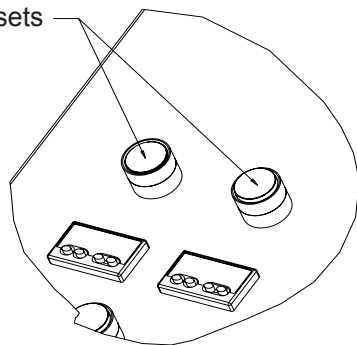
The high pressure monitoring sensor will engage if fluid pressure increases above 3200 psi. 22 mpa, 220.6 bar)

If a high pressure situation develops, the sensor will detect this and immediately engage the hold-in circuit.

This will disengage power to the machine and it will stop cycling. It will also turn the heater off.

On the control box panel, there are two yellow lighted push buttons marked over pressure. One of these push buttons will be illuminated after the monitoring sensor engages, indicating where the problem is located (ISO or POLY).

Over Pressure Resets



In an over pressure situation, the system will remain shut down until it is manually reset.

At this point, it is necessary to determine if the problem is an over pressure situation.

When the sensor engages, the system will be frozen, giving you the pressure readings at the time the problem was detected.

Inspect the fluid pressure gauges, in an over pressure situation, one of the fluid pressure gauges will be significantly higher than the other gauge.




*When main power to unit is on, the console will have wires that are live. Disconnect or turn off main power source before opening console to make any repairs.*



*Before performing any repairs on the system, ALL AIR and FLUID PRESSURES SHOULD BE RELIEVED TO ZERO (BLEED-OFF)!*

### Over Pressure Problem Correction

1. Determine if the problem is high pressure related.
2. Relieve system hydraulic pressure.
3. Turn off main power
4. Fix the problem area:
  - a. Potential high pressure causes:
    - Restriction
    - Overheating material in static position
    - ISO filter at gun
5. Re-start system for operation
6. The over over pressure lighted buttons will automatically be reset once the power has been turned off and the problem has been solved, and the main power is turned on again,

 For additional diagnostics refer to trouble shooting guide GC-1380



*If you do not understand the electrical hook-up described above, consult your local GlasCraft distributor or a qualified electrician. It is recommended that a qualified, licensed electrician should install power to the supply disconnect. You should always follow all local or national electrical codes.*



*Disconnect power source BEFORE attempting any repairs or opening the Control Boxes. Access to internal parts is limited to qualified personnel ONLY! Place the main power breaker in the OFF position BEFORE disconnecting the power cables. This equipment is not approved for use in hazardous locations as set forth in the National Electrical Code Article 500 and Sub-Part "S" of the OSHA Standards.*



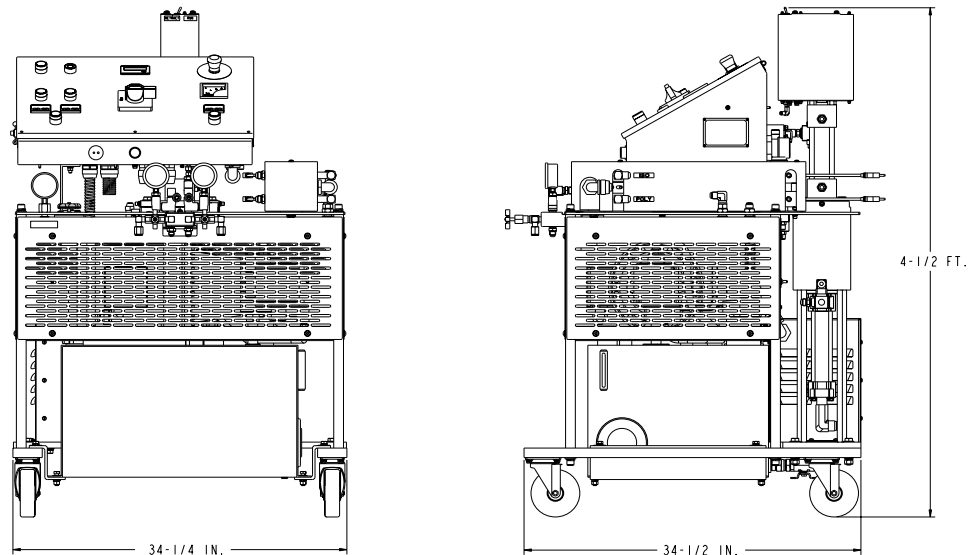






## Section 4 - Warranty and Reference Information: Technical Data

Material Ratio:	1:1 (Fixed)
Material Viscosity:	200- 2000 Centipoise (Cps) At Operating Temperatures
Output:	.042 GPC .159 LPC
Operating Temperatures:	32° F ( 0° C ) - 190° ( 88 ° C )
Mazimum fluid working pressure:	2200 psi. (15.2 mpa, 151.7 bar)
Hoses:	2200 psi. W/ 19524-01
Hydraulic Psi To Pumps:	2:1 Ratio 1000 psi. (7 mpa, 151.7 bar) Hydraulic psi. 2000 psi. (13.8 mpa, 138 bar ) Fluid psi. Per Side.
Purging:	Automatic Pneumatic, Solvent-free, Constant
Electrical Requirements:	74 Amps @ 208/240 Vac, 50/60 Hz Single Phase 5 HP 35 Amps @ 208/240 Vac, 50/60 Hz Three Phase 5 HP 27 Amps @ 380 Vac, 50 Hz Three Phase 5 HP
Compressed Air Requirements:	15 Cfm @ 100 psi 425 Liters @ 6.8 Bar
Max Hose Length:	310 ft. X 3/8 in. I.d. Hose Includes 10 ft. X ¼ in. I.d. Heated Whip Hose
Shipping Weight:	950 Lbs
Overall Dimensions:	





## Section 4 - Warranty and Reference Information: Limited Warranty Policy

GLASCRAFT, INC. ("GlasCraft") warrants to the original Purchaser of GlasCraft manufactured equipment and parts, that all GlasCraft manufactured equipment and parts will conform to their published written specifications and be free of defects in workmanship and material for a period of one (1) year from the original date of installation. GlasCraft makes no warranty to anyone other than the original Purchaser.

If any GlasCraft manufactured part or equipment is found to be defective in workmanship or material within the one-year period from the date of installation, as determined solely by GlasCraft, GlasCraft, in its sole discretion, will either repair or replace the defective part or equipment at GlasCraft's cost, including freight charges both ways, or credit or refund the purchase price for the defective equipment or part.

A warranty claim will be honored only when:

1. GlasCraft has been informed, in writing, of any such defect in workmanship or material within ten (10) days after discovery by the original Purchaser;
2. An official of GlasCraft has issued a return authorization number; and
3. The claimed defective equipment or part has been returned to GlasCraft by the original Purchaser, freight prepaid (with proper return authorization number(s) attached), to: GlasCraft, Inc., 5845 West 82nd Street, Suite 102, Indianapolis, IN 46278, U.S.A.

This warranty shall not apply to any equipment or parts that have been altered or repaired by anyone other than GlasCraft or to defects or damage resulting from improper installation, misuse, negligence, accident, or use not specified by GlasCraft. This warranty shall not apply to any equipment where any parts or components were replaced by any parts or components not manufactured or supplied by GlasCraft. The decision by GlasCraft shall be conclusive and binding on Purchaser.

GlasCraft does not warrant that any equipment or parts sold to Purchaser meet or comply with any local, state, federal, or other jurisdiction's regulations or codes. GlasCraft does not warrant that any equipment or part sold to Purchaser, when used individually or in concert with any other part, equipment, device, component or process, does not infringe on any patent rights of any third party. GlasCraft only warrants that it has no specific knowledge of any such infringement.

GlasCraft makes no warranty as to any parts or equipment manufactured by others. Purchaser shall look solely and only to the manufacturer of such parts or equipment with respect to any warranty claims. GlasCraft hereby assigns to Purchaser the original manufacturer's warranties to all such equipment and parts, to the full extent permitted.

**THE AFORESAID WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. SPECIFICALLY THERE ARE NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH WARRANTIES ARE SPECIFICALLY DISCLAIMED.**

GlasCraft shall not be liable for any loss or expense resulting from damage or accidents caused by improper use or application of materials manufactured or sold by GlasCraft or its distributors or agents.

**UNDER NO CIRCUMSTANCES SHALL GLASCRAFT'S LIABILITY EXCEED THE AMOUNT PURCHASER PAID FOR THE CLAIMED DEFECTIVE EQUIPMENT OR PART. UNDER NO CIRCUMSTANCES SHALL GLASCRAFT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OR FOR LOST PROFITS.**

No action arising from or relating to any goods manufactured by or purchased from GlasCraft may be brought more than one (1) year after the cause of action accrues.

**Section 4 - Warranty and Reference Information: Technical Assistance.....**

***Thank You for selecting GlasCraft spray equipment***

*Should you have any questions or need technical assistance, contact your factory authorized GlasCraft distributor.*

*Distributor:* \_\_\_\_\_

*Phone:* \_\_\_\_\_

*Contact:* \_\_\_\_\_

For any issues your distributor cannot address, the GlasCraft technical service department is always available to assist you with the operation of your spray equipment. To help our technical representatives expedite your call and better address your questions, please have the following information ready and available when you phone GlasCraft.

**\* If your questions are not urgent, You can e-mail all correspondence to [service@glascraft.com](mailto:service@glascraft.com)**

**For Air Powered Systems:**

Model: \_\_\_\_\_

Serial number: \_\_\_\_\_

Type of spray gun: \_\_\_\_\_

Serial number: \_\_\_\_\_

Is your equipment:

Single phase: \_\_\_\_\_ Three phase \_\_\_\_\_

What is the inbound voltage to your equipment: \_\_\_\_\_

Temperature setting ISO: \_\_\_\_\_

Temperature setting POLY: \_\_\_\_\_

Temperature setting HOSE: \_\_\_\_\_

Air compressor size: \_\_\_\_\_

CFM generated: \_\_\_\_\_

Pressure at the system:

Hydraulic \_\_\_\_\_ Pneumatic \_\_\_\_\_

Dynamic fluid pressure:

ISO \_\_\_\_\_ POLY \_\_\_\_\_

Spray gun chamber size: \_\_\_\_\_

Material being sprayed: \_\_\_\_\_

Viscosity: ISO \_\_\_\_\_ POLY \_\_\_\_\_

Approximate material temperature: \_\_\_\_\_

For Your Reference



**Date Purchased** \_\_\_\_\_  
**Distributor** \_\_\_\_\_  
\_\_\_\_\_  
**Contact** \_\_\_\_\_  
**Phone** \_\_\_\_\_  
**E-mail** \_\_\_\_\_

GlasCraft manufactures a complete line of polyurethane foam and polyurea coating spray systems. If your application is in-plant or a field contractor - GlasCraft has a system package to meet your requirements.

***GUARDIAN - AIR POWERED / A5 & A6 SERIES EQUIPMENT***

- . 6000 OR 12000 WATTS OF HEAT
- . 1600, 2200, OR 3000 PRESSURE SET-UPS AVAILABLE

***MH, MH II, & MH III HYDRAULIC POWERED SYSTEMS***

- . UP TO 45 LBS / MINUTE OUTPUT
- . EXCELLENT PERFORMANCE AND RELIABILITY

***GUARDIAN MMH - MOBILE MODULAR HYDRAULIC SYSTEMS***

- . SPECIFICALLY DESIGNED FOR ANY TYPE OF SPRAY RIG
- . GIVE COMPLETE UTILIZATION OF FLOOR SPACE IN MOBILE RIG

***PROBLER P2 SPRAY GUN***

- . IMPINGEMENT MIX / AIR PURGE
- . OPTIONAL NOZZLE FOR SPRAYING STUD WALLS, POURING & STREAM JET

For more information concerning any of these GlasCraft products,  
contact your local authorized GlasCraft distributor or visit [www.glascraft.com](http://www.glascraft.com)

A detailed technical line drawing of a GlasCraft dispensing system, showing various components like tanks, valves, and piping. The drawing is rendered in a light gray color, serving as a background for the text.

Quality and Performance...

GENUINE GLASCRAFT

**Glas** **Craft**

DISPENSING EXCELLENCE

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ADVANCED DISPENSE  
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