BURFORD CORPORATION

SERVICE MANUAL

FOR YOUR

BURFORD CROSS SPLITTER

MODEL CS-1R/CS-1L

ORIGINAL INSTRUCTIONS

MODEL #_____
SERIAL #_____
WIRING DIAGRAM #_____REV___

DATE: January 19, 2012

Manual #SO078826 ISSUE “A”

DISCLAIMER

The descriptions and specifications contained in this Service Manual were in effect at the time this manual was approved for printing. Our policy is one of continuous improvements, and we do hereby reserve the right to discontinue models at any time, or to change specifications, prices, or designs without notice and without incurring obligations.

Burford Corporation expressly disclaims any liability for damages and /or injuries caused as a result of negligence or misuse of its product. Such negligence or misuse includes, but is not limited to, removal of guards and faulty installation and wiring.

TABLE OF CONTENTS

1.0 SAFETY PRECAUTIONS

As Burford Corporation strives to promote safety in the maintenance and operation of Burford equipment, we request that the following safety features be followed, along with any additional safety procedures set by the customer's in-plant safety officers or local codes.

1. Read the manual completely before attempting the installation or operation of this unit.

2. Incoming electrical power must be properly shielded, routed, and grounded. All safety codes should be followed. Study the wiring diagrams before attempting the installation.

3. Disconnect power to the equipment before removing any guards or covers. Replace the guards or covers before resuming operation of the unit.

4. Loose clothing and long hair should be considered a safety hazard around mechanical equipment. Ensure that they will not be entangled in the equipment.

5. Do not bypass any safety switches.

6. Do not attempt repairs while the equipment is running.

7. Use only original equipment parts that are designed to operate safely in the equipment.

8. Only authorized personnel should be allowed to operate or perform maintenance on the unit.

9. The equipment should only be used for the purpose for which it was sold. The equipment should not be modified in any way without notification in writing to the General Manager of Burford Corporation.

2.0 GENERAL INFORMATION

The Burford Cross Splitter is designed to split the tops of dough pieces with jets of water for a variety of applications. The cross splitter utilizes a programmable logic controller to control and coordinate the motion of the splitter manifold.

2.1 BASIC IDENTIFICATION

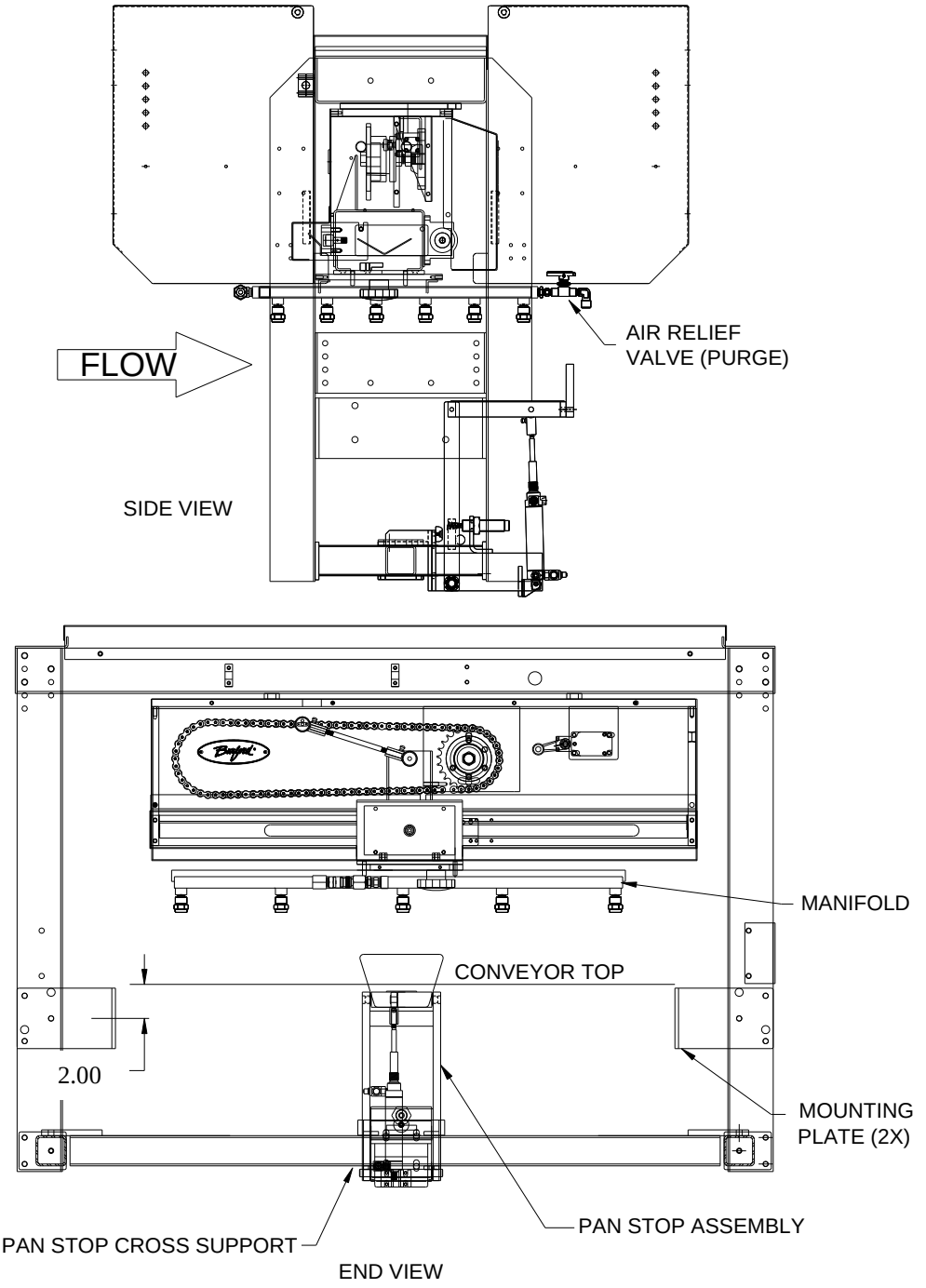


Fig. 2.1 Right Hand Unit Shown

2.0 GENERAL INFORMATION, cont'd.

2.2 FEATURES AND BENEFITS

1. Stainless steel and aluminum construction.

2. Speeds up to 25 pans per minute, depending upon pan size, spacing and conveyor speed.

3. Quick-change manifold can be replaced quickly when changing to a different product.

4. Split manifold always fits the pan precisely - no operator setup errors with nozzle spacing.

5. A "soft" pan stop slowly stops the pan with no damage to proofed dough pieces.

6. Electronic control of pan stop, moving carriage, and splitting nozzles.

7. Requires approximately 57" of conveyor space.

8. Few moving parts, easily maintained.

2.3 REQUIREMENTS

Electrical	110-60-1 Standard, 10 Amps
Air	80 psi @ 1 cfm
Water	50 psi

Pan Stop — The Cross-Splitter stops each pan for approximately 1 second so that the pan can be split. The pans coming into the Cross-Splitter must be properly spaced so that the adjacent pans do not bump together due to the pan stop. In addition, the conveyor must be constructed so that ample space is available for the pan stop to mount between the chains of the conveyor. Continuous belt or wire mesh type conveyors, which leave no space for the pan stop, cannot be used. Burford Corporation can supply a compatible conveyor for the Cross-Splitter.

3.0 THEORY OF OPERATION

The Burford Cross Splitter uses jets of water to split the tops of dough pieces in the direction, which is perpendicular to the direction of conveyor travel. The theory of operation of this machine is described below.

As a pan travels under the Cross Splitter it encounters a "soft" pan stop designed to slow down the pan over a distance of about two inches and gently bring the pan to a stop at a precise location, thereby avoiding damage to the dough pieces. The pan stop uses an air cylinder to raise and lower the stop plate as commanded by the controller. A hydraulic damper in the pan stop is used to absorb the energy of the moving pans.

Just before the pan is stopped, the leading edge of the pan triggers a sensor, which is looking down vertically through the conveyor. This pan switch tells the controller that a pan is present and that a splitting cycle can begin. At this time the brake on the carriage drive motor is turned off, the clutch is engaged, and the carriage with the water spray nozzles starts to move across the conveyor.

The carriage holds a "manifold" containing an array of nozzles. The manifold is arranged in a pattern that matches the pattern of the cups in the pan, which is to be split. A stationary sensor is used to turn the nozzles on and off. The sensor is actuated by a moving template that is attached to the manifold. As the carriage begins to move across the conveyor and the nozzles approach the starting points for the split, the moving template on the manifold triggers the sensor, which turns a solenoid on, permitting water to flow through all the nozzles. The carriage continues to move across the pan and the nozzles are turned ON and OFF in accordance with the shape of the template.

As soon as the carriage has moved across the pan, the pan stops are lowered and the pan is allowed to move down the conveyor. When the pan switch senses that the trailing edge of the pan has passed, the pan stop is then raised in preparation for the next pan.

During the time that the pan has been moving from under the Cross-Splitter, the carriage has been returning to its original starting position. A home-position switch is used to stop the carriage in the same position after each cycle. The drive motor clutch is disengaged, the brake is applied, and the splitting cycle is concluded.

4.0 INSTALLATION PROCEDURES

The Burford Cross Splitter was shipped to you completely assembled. There are two (2) ways to purchase the unit: 1) Mounted onto a Burford Conveyor, ready to roll into a given location. 2) Assembled and ready to mount onto an existing conveyor.

4.1 MACHINE INSTALLATION

A factory-trained technician may be hired for the installation of your Cross-Splitter. The arrangements can be made by calling the Service Manager at Burford Corporation located in Maysville, Oklahoma, USA. 1-877-BURFORD or 405-867-4467.

To install the unit, the following instructions are recommended:

1. Electrical connection or hookups should be done by a qualified electrician to insure compliance with all safety requirements and local codes.
2. After uncrating, check for damage, if there is any damage to the unit, notify the carrier.
3. Find the location in which the unit is to be installed. This will be determined by the drawings sent to Burford that showed the conveyor width, height, and nearby obstructions.

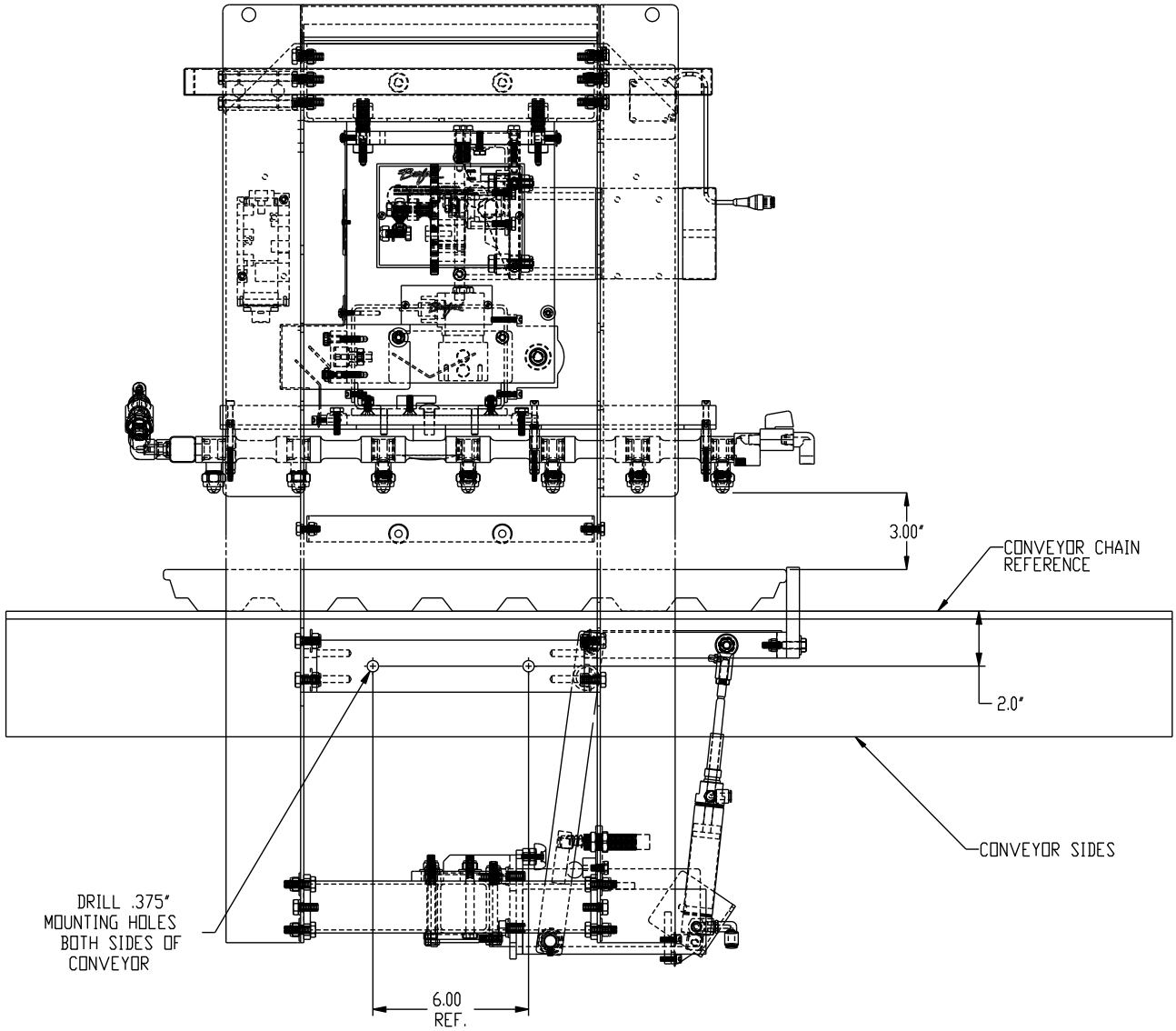
4.1.1 Installation with unit mounted on a Burford conveyor

1. Roll the unit into place.
2. Hook up water, air and electrical power.
3. Turn on the main disconnect, power up, and cycle the unit with a pan to insure proper operation. (See section 4.2 for Purging Instructions).

4.0 INSTALLATION PROCEDURES, cont'd.

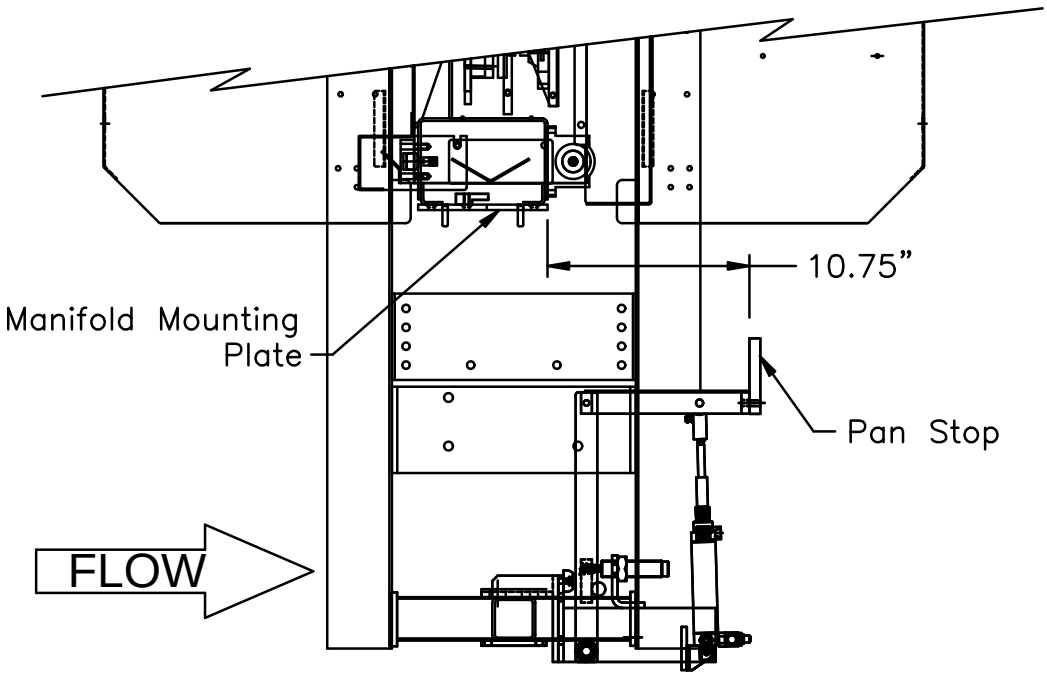
4.1.2 Installation on an existing conveyor

1. Unbolt the pan stop cross support.
2. Determine the proper location for the cross splitter, mark the 4 mounting holes as shown in the figure below (2" below conveyor chain x 6" apart).
3. Drill the four 3/8" mounting holes.
4. Set the machine in place.
5. Reinstall the pan stop cross support, hook up water, air and electrical power.
6. As a reference, the splitter nozzles should be approximately 3 inches above the product.

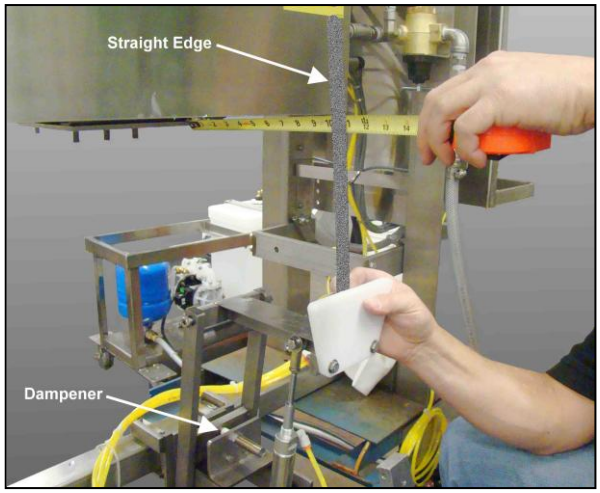


4.0 INSTALLATION PROCEDURES, cont'd.

4.1.2 Installation on an existing conveyor, cont'd.



7. With the pan stop in the "UP" position and the dampener fully depressed (pull the pan stop downstream as far as it will go), measure the distance from the downstream side of the manifold mounting plate to the upstream side of the white plastic piece on the pan stop (straight edge may be required).
8. Adjust the pan stop cross support until 10.75" is obtained.
9. Cycle the unit with a pan to insure proper operation and split



position.

4.0 INSTALLATION PROCEDURES, cont'd.

4.2 PURGING

NOTE: It is very important to purge all the air from the manifold and nozzles for proper operation of the Splitter. Air in the system will cause inconsistent nozzle operation.

When the Splitter is initially installed, all water lines must be purged, which can take 15-20 minutes to accomplish. However, once the main lines have been purged, they will stay full of water so that subsequent purging, due to changing of manifolds, can be done more quickly. The proper procedure is as follows:

1. Ensure that the safety hood is in the raised position while installing and removing the manifold.

WARNING: Do NOT close safety hood until purge sequence is complete.

2. Press F3 to "PURGE" and open bleeder valve(s) to fill manifold with water. Close bleeder valves when satisfied with water flow.

Note: Pressing F3 will initiate the purge cycle for 30 seconds. You may manually stop the cycle by pressing the F3 button at any time.

The test procedure to ensure that the air is removed from the manifold assembly is as follows:

1. Press the F3 button to toggle water flow on and off. Every time the water is turned off, the stream spraying from the tips should have a **clean** and **instant** cut off. There should be no dribbling or slow stopping of water. If this occurs, you will need to repeat the steps for purging until a clean stop of water is apparent, then switch to the "RUN" mode.

NOTE: It is sometimes difficult to determine if the manifold has been sufficiently purged. Allow plenty of time to perform the purge procedure.

Some Splitters are supplied with more than one manifold. Every time a manifold is changed, the bleeder valves should be closed upon installing. Then follow the purge procedures. When removing the manifold, leave the bleeder valves closed. This will help make the purge procedure quicker the next time manifold is used.

NOTE: If a particular spray tip cannot be purged a problem may exist with the check screen. Change check screen and repeat purging procedure.

4.0 INSTALLATION PROCEDURES, cont'd.

4.3 MANIFOLD INSTALLATION

To install a different manifold on the Burford Cross Splitter, disconnect the quick connections attaching the supply hoses to the manifold (fig. 4.3.1). Next, loosen and remove the hand knobs that secure the manifold to the unit (fig. 4.3.1) and remove the manifold from the unit. Reverse these steps to install the new manifold.

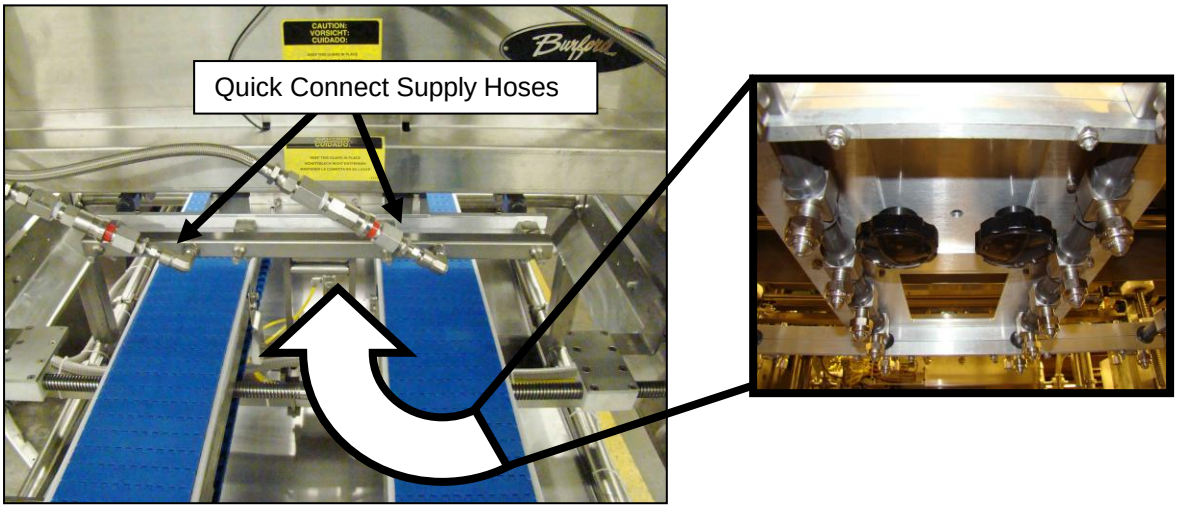
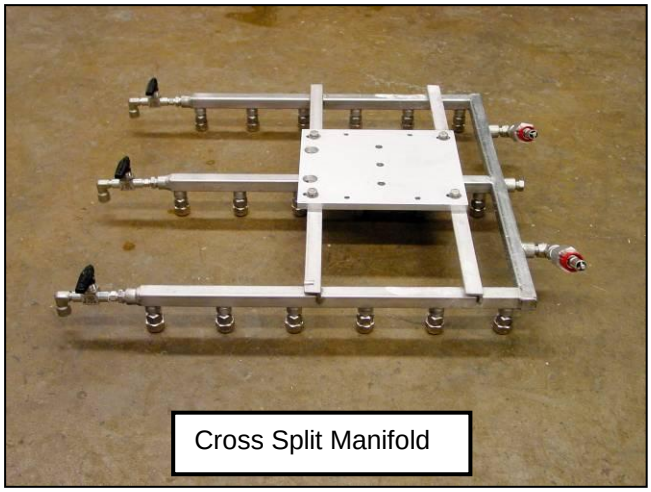


Fig. 4.3.1



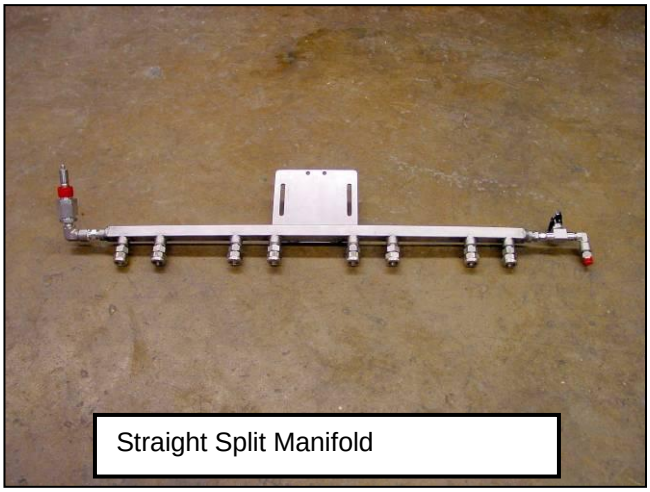


Fig. 4.3.2

NOTE: Repeat the Purge procedure after changing to a different manifold.

5.0 SWITCHES AND SETTINGS

5.1 Home Switch

The home switch is located behind the access covers as shown in the figure below. As the manifold cycles, an actuator bar closes the one way sensor to stop the carriage in the same “home” position at the end of the splitting cycle.

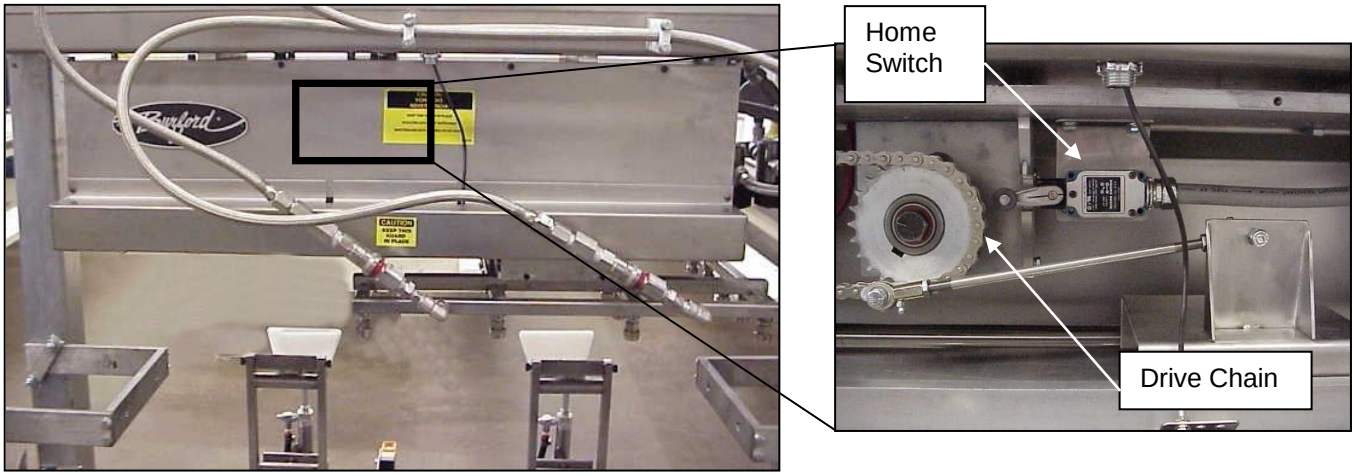


Fig. 5.1

5.2 Spray Template Sensor

When the template passes in front of the sensor on its advancing stroke; the nozzles will be activated. Template position is adjustable to allow for precise spray positioning.

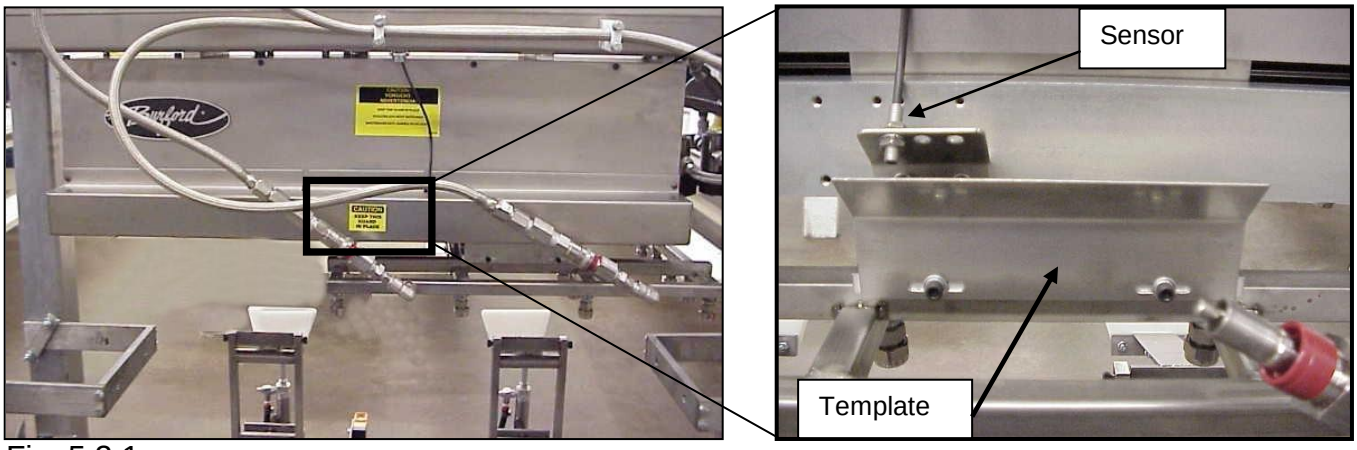


Fig. 5.2.1

5.0 SWITCHES AND SETTINGS, cont'd.

5.2 Spray Template Sensor, cont'd.

The sensitivity of the sensor is set by adjusting the potentiometer located in the enclosure under the top access cover. Adjust the sensor such that the indicator LED will illuminate only when the template is in front of the sensor. The dip switches should be set for "Light On", "STD" and timer "OFF" operation. NOTE: Verify the sensor does not detect the access cover.

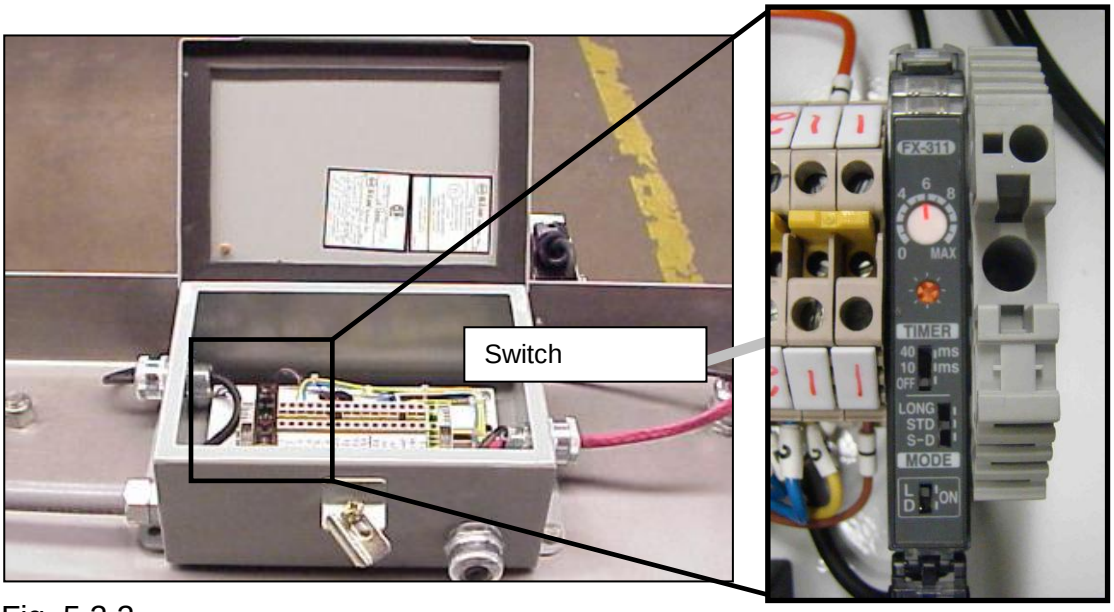


Fig. 5.2.2

5.3 Pan Present Sensors

This sensor provides input to the controller. When a pan is detected the controller signals the pan stops to come up and initiates the splitting cycle when the unit is in the auto mode.

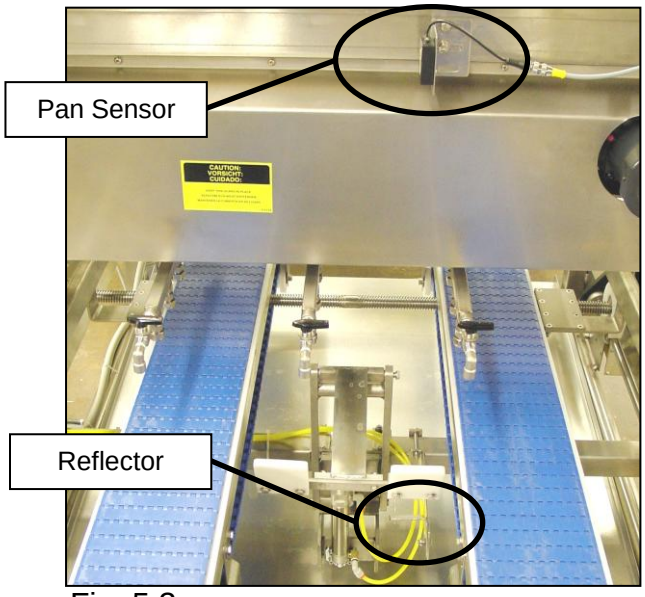


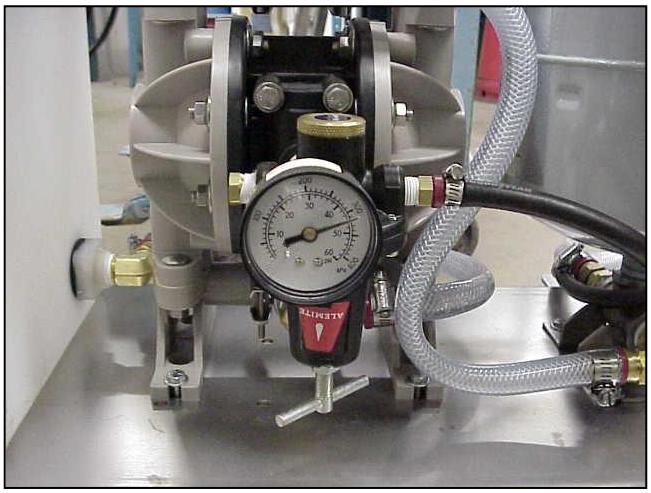
Fig. 5.3

5.0 SWITCHES AND SETTINGS, cont'd.

5.4 Pump Cart and Manifold Pressure.

Pressure settings for the pump cart air pressure and the manifold fluid pressure are outlined below. Different dough will require changes in pressure settings to achieve the desired split depth. These settings are general and may differ from application to application.

- Pump Cart Air Pressure: 80 psi max
- Pump Cart Accumulator Pressure: 30 psi
- Manifold Liquid Pressure: 30-40 psi for standard (1-23 nozzles) manifold (single supply hose).
- Manifold Liquid Pressure: 40-50 psi for high volume (24-60 nozzles) manifold (dual supply hoses).



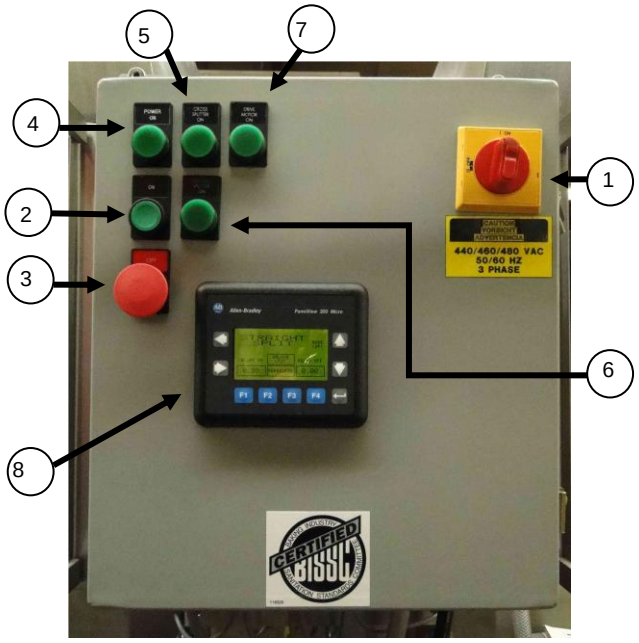
Pump Cart Pressure

Manifold Pressure

5.0 SWITCHES AND SETTINGS, cont'd.

5.5 Front Panel Switch and Display Guide.

Following is a description of items on the front panel of the unit.



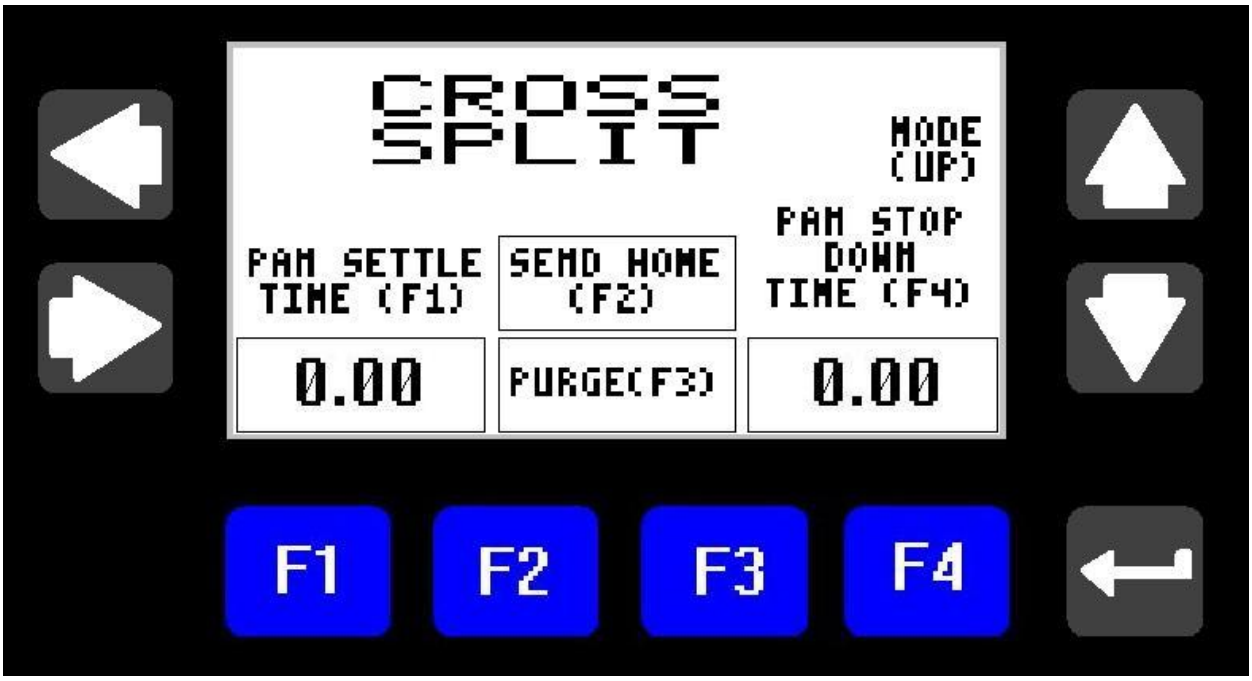
ITEM NO.	NAME	DESCRIPTION
1	Main Disconnect	Switch must be in the "OFF" position to open the main electrical enclosure.
2	"ON" pushbutton	Push to energize the unit.
3	"OFF" Pushbutton	Push to de-energize the unit.
4	"POWER ON" Lamp	The lamp is "ON" when the unit is energized.
5	"CROSS SPLITTER ON" Lamp	The lamp is "ON" when cross split mode is selected.
6	"STRAIGHT SPLITTER ON, Lamp.	The lamp is "ON" when straight split mode is selected.
7	"DRIVE MOTOR ON" Lamp	The lamp is "ON" during the cross conveyor movement indicating that the system is currently moving the carriage.
8	MicroView Display	This display is used to input all pan specific information into the unit. See Section 6.0 and the provided MicroLogix reference for specific information on using the display. See Section 6 for details on the system and associated values.

6.0 DISPLAY DESCRIPTIONS

6.1 Choosing Cross Or Straight Split

Pressing the up arrow button will toggle between the main screens for cross splitter and straight splitter.

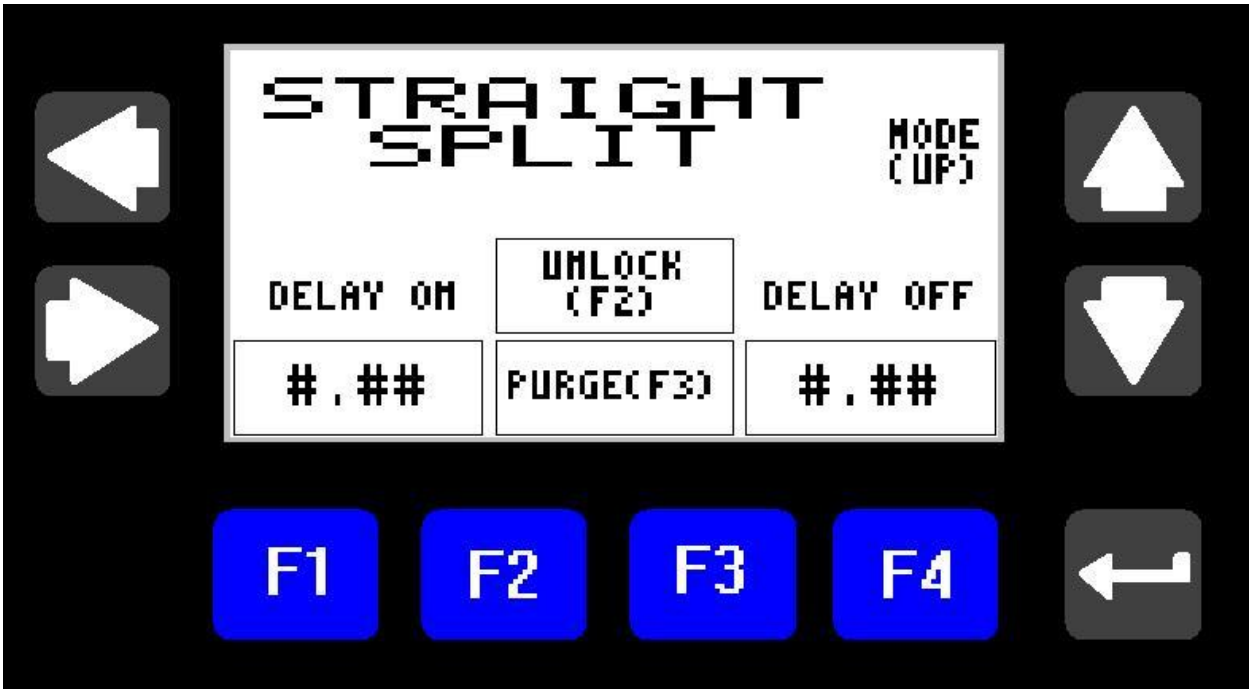
6.2 Main Screen - Cross Split



FUNCTION	DESCRIPTION
PAN SETTLE TIME (F1)	Pressing the “F1” function key will advance the display to a screen to enter a value (.01 seconds – 5.00 seconds). This is the amount of time once the pan sensor has been actuated until the unit conducts a split cycle. Used to allow the pan to come to rest against the panstop before splitting occurs.
SEND HOME (F2)	Pressing the “F2” function key will signal the unit to move the carriage to the “HOME” position.
PURGE (F3)	Pressing the “F3” function key will signal the unit to begin the purge cycle to clear air from the nozzle assembly.
PAN STOP DOWN TIME (F4)	Pressing the “F4” function key will advance the display to a screen to enter a value (.01 seconds – 5.00 seconds). This is the amount of time the panstop will remain in the down position after a split cycle is complete. Used to allow the pan to pass downstream of the panstop before it is raised to catch the next pan.

6.0 DISPLAY DESCRIPTIONS cont'd

6.3 Main Screen - Straight Split



FUNCTION	DESCRIPTION
DELAY ON (F1)	Pressing the "F1" function key will advance the display to a screen to enter a value (.01 seconds – 5.00 seconds). This is the amount of time in milliseconds the unit waits from the pan sensor detecting the leading edge of the pan to when the splitter manifold begins its split sequence. Used to fine tune the position of the splits on the dough pieces.
UNLOCK (F2)	Pressing the "F2" function key will lock/unlock the motor brake.
PURGE (F3)	Pressing the "F3" function key will signal the unit to begin the purge cycle to clear air from the nozzle assembly.
DELAY OFF (F4)	Pressing the "F4" function key will advance the display to a screen to enter a value (.01 seconds – 5.00 seconds). This is the amount of time in milliseconds the splitter manifold continues to split dough pieces after the pan has cleared the pan sensor. Used to allow the entire dough piece to be split.

7.0 OPERATION

7.1 Straight Split Positioning

1. Press the “OFF” button to de-energize the unit.
2. Raise safety hood.

3. Position carriage to split dough at desired position.

4. Lower safety hood
5. Press the “ON” button to energize the unit
6. Start production

8.0 TROUBLESHOOTING

1. Problem: The unit will not power up.
   - A. Check the incoming power.
   - B. Check the disconnect position.
   - C. Check the circuit breakers.
   - D. Check for wiring or component faults.

2. Problem: The cross section moves but will not split.
   - A. Check the nozzle tips for blockage.
   - B. Check nozzles internal Check Valves.
   - C. Insure Solenoid Valves are operative.
   - D. Check water pressure regulator settings.

3. Problem: The cross section will not operate.
   - A. Check the pan proximity transmitter and receiver.
   - B. Check the induction motor.
   - C. Check the program on PLC.
   - D. Check the drive section.

4. Problem: The pan stop is inoperative.
   - A. Check the program on PLC.
   - B. Check the home switch.
   - C. Check the air system.
   - D. Check the photo cell.

5. Problem: The pan is not being split correctly.
   - A. Check the pan guides.
   - B. Check the template.
   - C. Purge and retry.

6. Problem: The splitter sprays continuously.
   - A. Check SOL 4 on wiring diagram.
   - B. Check SS 2 on wiring diagram.
   - C. Check CRE 1 on wiring diagram.
   - D. Check CTRL 1 on wiring diagram.

7. Problem: The cross section moves continuously.
   - A. Verify home switch is being actuated.

9.0 SPARE PARTS LIST

PART #	QTY	DESCRIPTION
C00543	5	TIP, SPRAY
C00579	3	FILTER, WATER, REPLACEMENT
305932	1	SOLENOID VALVE, 4-WAY
C07475	1	MOTOR, CLUTCH/BRAKE
C07476	1	CONTROLLER, PLC
C07629	1	FIBER OPTIC SENSOR
C07630	1	FIBER OPTIC CABLE
A06751	5	O-RING, .625” ID X 0.093” THICK
103972	1	SWITCH
305399	1	PAN STOP DAMPENER
610797	1	SENSOR, PHOTO, RETRO-REFLECTIVE, PNP
611459	10	CHECK VALVE w/STRAINER, 20 PSI
611549	5	O-RING, SILICONE, .237” ID

10.0 ASSEMBLY DRAWINGS AND PARTS LISTS

10.1 Frame Assembly

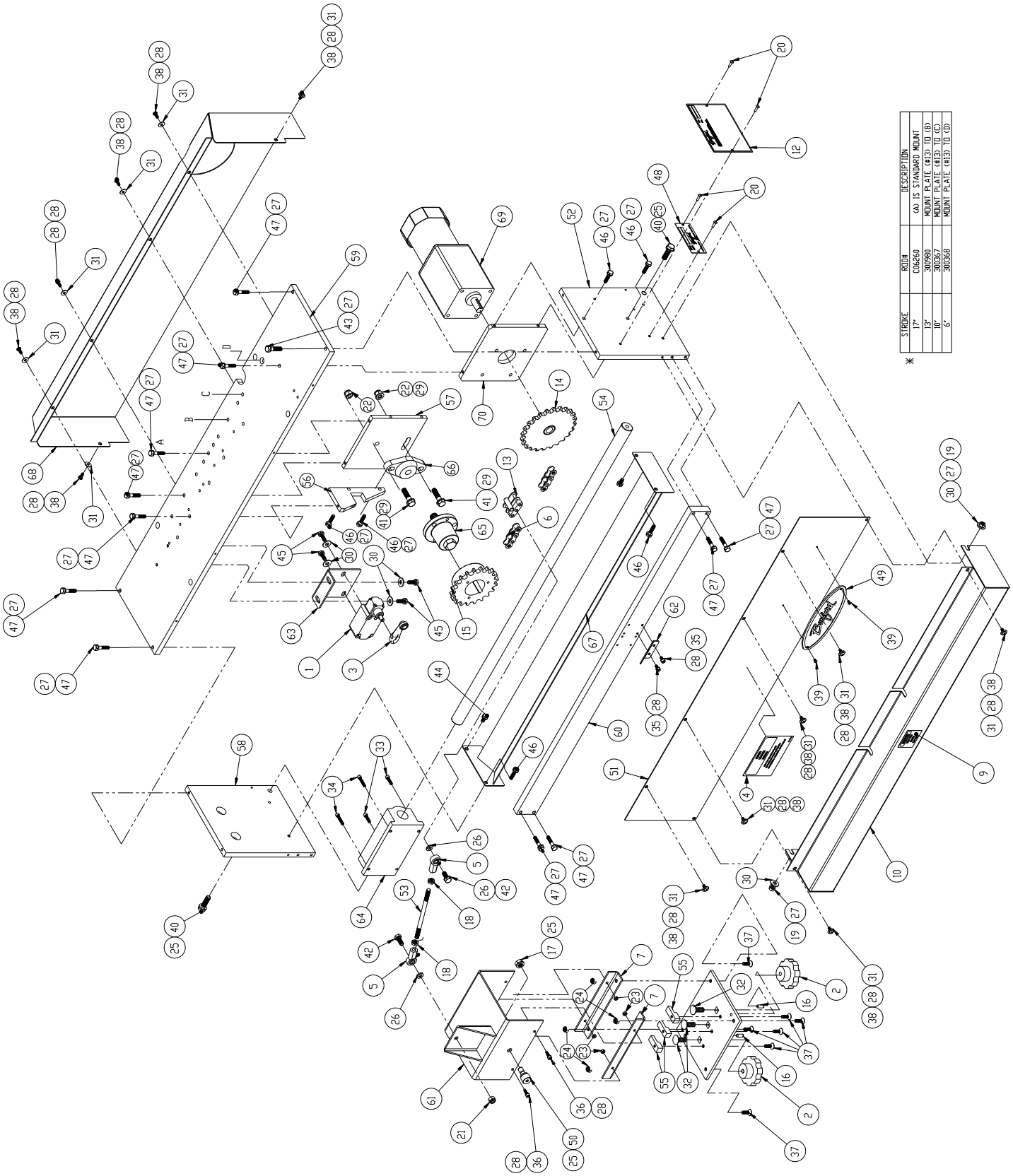
ITEM #	PART #	QTY	DESCRIPTION
1	103972	REF	SWITCH, LIMIT
2	104314	2	KNOB
3	111043	REF	ROLLER, LIMIT SWITCH ACTUATOR
4	111174	1	DECAL, “KEEP THIS GUARD IN PLACE”
5	152075	2	ROD END, 5/16” BEARING
6	152172	REF	CHAIN, ROLLER, #50, NICKEL PLATED
7	300508	2	BRACKET, CARRAIGE MOUNTING
8	300564	1	PLATE, MANIFOLD MOUNTING
9	302361	1	DECAL, SMALL, “KEEP THIS GUARD IN PLACE”
10	303150	1	A/W, TEMPLATE COVER ASSEMBLY
11	304999	1	PLATE, SERIAL
13	305891	1	A/W, 2050 LINK
14	305895	1	SPROCKET, 50-B-24, 15MM BORE, REWORKED
15	305930	1	SPROCKET, IDLER, H50P20
16	954910	1	PIN, DOWEL, ¼” X 5/8”, SST
17	955375	2	NUT, HEX FIN, 3/8-16 UNC, SST
18	955406	1	NUT, HEX JAM, 5/16-24 UNF, SST
19	955409	2	NUT, HEX JAM, ¼-20 UNC, SST
20	955541	2	RIVET, 5/32” X 3/8”
21	955619	4	NUT, HEX NYLOC, 5/16-18 UNC, SST
22	955620	1	NUT, HEX NYLOC, 3/6-16 UNC, SST
23	955621	2	NUT, HEX NYLOC, #10-24 UNC, SST
24	955661	4	NUT, HEX NYLOC, ¼-20 UNC, SST
25	955938	4	WASHER, LOCK, 3/8”
26	955939	4	WASHER, LOCK, 5/16”, SST
27	955940	3	WASHER, LOCK, ¼”, SST
28	955941	26	WASHER, LOCK, #10, SST
29	955975	16	WASHER, FLAT, 3/8”, SST
30	955977	4	WASHER, FLAT, ¼”, SST
31	955978	6	WASHER, FLAT, #10, SST
32	964916	12	SCREW, CARRIAGE, 3/8-16 X 1”, SST
33	978812	3	SCREW, SOCKET HEAD CAP, #10-32 X ¾”, SST
34	978816	2	SCREW, SOCKET HEAD CAP, #10-32 X 1”, SST
35	978906	2	SCREW, SOCKET HEAD CAP, #10-24 X 3/8”, SST
36	978908	2	SCREW, SOCKET HEAD CAP, #10-24 X ½”, SST
37	981712	2	SCREW, FLAT HEAD SOCKET, ¼-20 X ¾”, SST
38	986308	7	SCREW, BUTTON HEAD SOCKET, #10-24 X ½”, SST
39	987504	12	SCREW, BUTTON HEAD SOCKET, #6-32 X ¼”, SST
40	988920	2	SCREW, FIN HEX, 3/8-16 X 1-1/4”, SST

C06231 ISSUE “F”

10.1 FRAME ASSEMBLY, cont'd.

ITEM #	PART #	QTY	DESCRIPTION
41	988924	2	SCREW, FIN HEX, 3/8-16 X 1-1/2", SST
42	989712	2	SCREW, FIN HEX, 5/16-18 X ¾", SST
43	989720	1	SCREW, FIN HEX, 5/16-18 X 1-1/4", SST
44	989908	2	SCREW, FIN HEX, ¼-20 X ½", SST
45	989912	4	SCREW, FIN HEX, ¼-20 X ¾", SST
46	989916	6	SCREW, FIN HEX, ¼-20 X 1", SST
47	989920	11	SCREW, FIN HEX, ¼-20 X 1-1/4", SST
48	A05584	1	PLATE, SERIAL NUMBER
49	A08049	1	NAMEPLATE, BURFORD LOGO
50	A08602	1	CAM FOLLOWER, ¾" CROWNED
51	C06250	1	PLATE, INFEED COVER
52	C06255	1	PLATE, END
53	C06260	1	ROD, LINKAGE
54	C06265	1	SHAFT, SLIDE BEARING
55	C06273	3	RETAINER, BOLT
56	C06277	1	GUSSET, TAKE-UP
57	C06278	1	PLATE, TAKE-UP
58	C06283	1	PLATE, END, OPERATOR SIDE
59	C06284	1	PLATE, TOP, 6 – 19.5 STROKE
60	C06287	1	FOLLOWER, TRACK, 6" – 19.25"
61	C06289	1	A/W, CARRIER
62	C06293	1	PLATE, FIBER OPTIC SENSOR MOUNTING
63	C06294	1	BRACKET, STOP SWITCH MOUNTING
64	C06296	1	BEARING, LINEAR PILLOWBLOCK, 1"
65	C06297	1	BEARING, TAKE-UP IDLER
66	C06298	1	BASE, IDLER
67	C06362	1	A/W, CATCH TRAY
68	C06365	1	A/W, DISCHARGE COVER
69	C07275	REF	MOTOR, GEAR, 1/12 HP, 18:1
70	C07276	1	PLATE, MOTOR MOUNTING

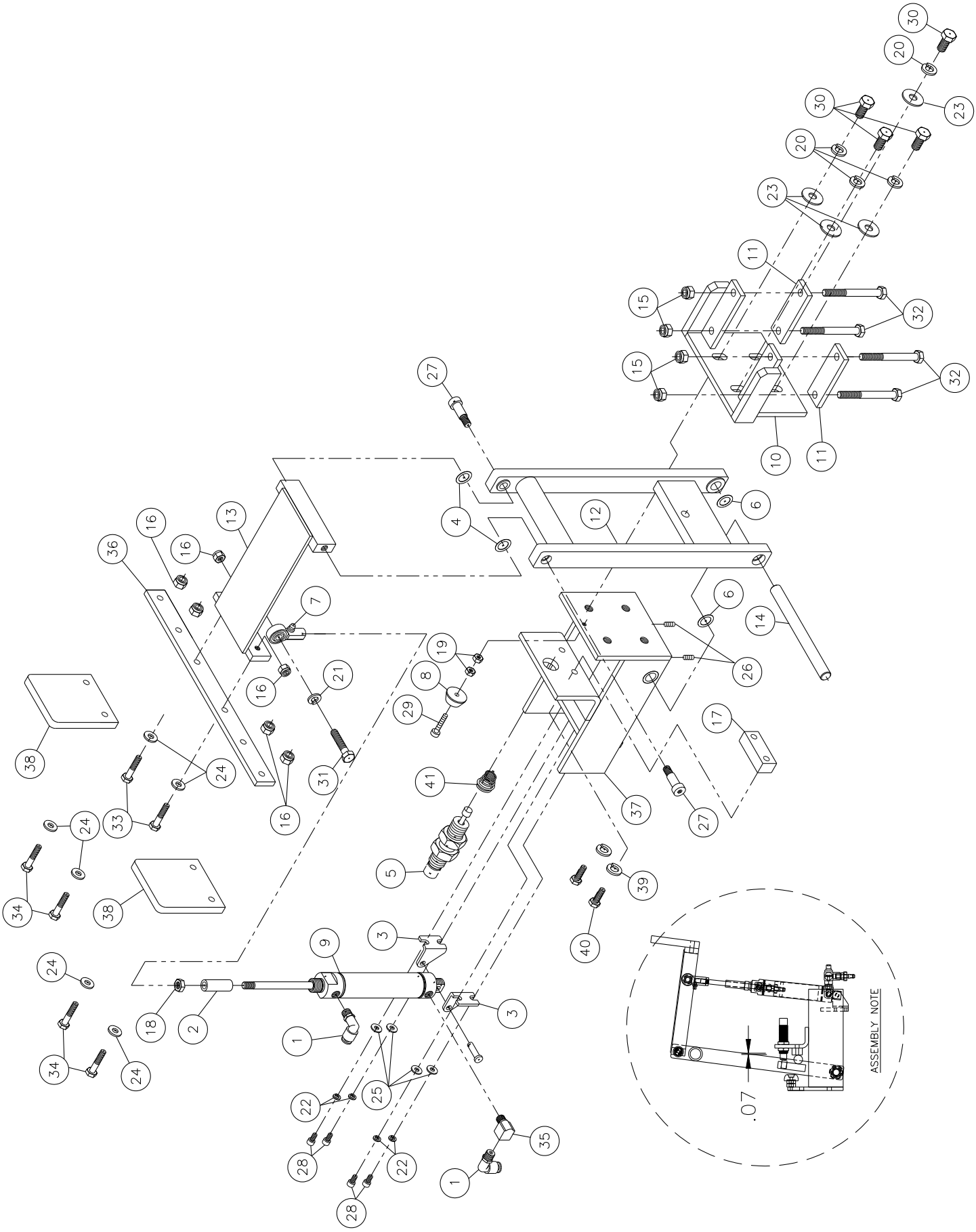
C06231 ISSUE "F"


* STROKE PART# DESCRIPTION
17" C062660 (A) IS STANDARD MOUNT
13" 300980 MOUNT PLATE (#13) TO (B)
10" 300367 MOUNT PLATE (#13) TO (C)
6" 300368 MOUNT PLATE (#13) TO (D)

10.2 PAN STOP ASSEMBLY – DUAL PADDLE

REF	PART#	QTY	DESCRIPTION
1	174049	2	FITTING, 90°, 1/8" NPT X ¼" TUBE, QUICK RELEASE
2	111706	1	SPACER
3	111937	1 pair	BRACKET, CYLINDER PIVOT
4	112121	2	BUSHING, MACHINE, 3/8" X ¾" X 0.010"
5	305399	1	SHOCK ABSORBER
6	122232	2	BUSHING, MACHINE, ½" X ¾" X 0.010"
7	152075	1	BEARING, ROD END, 5/16"
8	152148	1	BUMPER
9	174047	1	CYLINDER, AIR
10	300460	1	A/W, STOP MOUNT
11	300463	2	PLATE, BOTTOM, STOP MOUNT
12	302770	1	ASSEMBLY, VERTICAL PANSTOP PIVOT
13	302776	1	A/W, PANSTOP, SST
14	302784	1	SHAFT, PANSTOP PIVOT
15	955619	4	NUT, HEX NYLOC, 5/16-18 UNC, SST
16	955661	6	NUT, HEX NYLOC, ¼-20 UNC, SST
17	305398	1	PLATE, STOP
18	955407	1	NUT, HEX JAM, 5/16-18 UNC, SST
19	955823	2	NUT, HEX MACHINE, #10-24 UNC, SST
20	955938	4	WASHER, LOCK, 3/8", SST
21	955939	1	WASHER, LOCK, 5/16", SST
22	955941	4	WASHER, LOCK, #10, SST
23	955975	4	WASHER, FLAT, 3/8", SST
24	955977	6	WASHER, FLAT, ¼", SST
25	955978	4	WASHER, FLAT, #10, SST
26	971204	2	SCREW, SET SOCKET, ¼-20 X ¼", SST
27	975112	2	SCREW, SHOULDER, 3/8" X ¾" X 5/16-18
28	978908	4	SCREW, SOCKET HEAD CAP, #10-24 X ½", SST
29	986312	1	SCREW, BUTTON HEAD SOCKET, #10-24 X ¾", SST
30	988912	4	SCREW, FINISH HEX, 3/8-16 X ¾", SST
31	989724	1	SCREW, FINISH HEX, 5/16-18 X 1-1/2", SST
32	989748	4	SCREW, FINISH HEX, 5/16-18 X 3", SST
33	989924	2	SCREW, FINISH HEX, ¼-20 X 1-1/2", SST
34	989916	4	SCREW, FINISH HEX, ¼-20 X 1", SST
35	C00962	1	FITTING, ELBOW, 1/8", BRASS
36	305379	1	PLATE, PANSTOP MOUNTING
37	C06300	1	A/W, PANSTOP BASE
38	305378	2	PLATE, PANSTOP
39	955940	2	WASHER, LOCK, ¼", SST
40	989908	2	SCREW, FINISH HEX, ¼-20 X ½", SST
41	A02332	1	SPRING, COMPRESSION

C06236-001 ISSUE "C"


ASSEMBLY NOTE
.07

10.3 MOUNTING FRAME ASSEMBLY

ITEM #	PART #	QTY	DESCRIPTION
1	77151-102	1	MAIN CHANNEL A/W 52”
2	300463	1	BAR, BACK-UP CLAMP, PAN STOP, CS-1
3	300494	REF.	HOSE RESTRAINT DUAL
4	302554	REF.	GUARD,A/W,ENCL,620 (110085)
5	304595	1	BRACKET, SENSOR MT, LOWER, CS-1
6	304596	REF.	BRACKET,SENSOR MT,UPPER,CS-1
7	305367	REF.	PLATE GAS SPRING MOUNT CS1
8	305660	REF.	ANGLE MOUNT COVERS
9	305661	REF.	ANGLE MOUNT COVERS
10	305730	1	ANGLE REFLECTOR MT PS1, CS1
11	610255	1	TAPE,REFLECTOR,SENSOR 3"W
12	610797	REF.	SENSOR,PHOTO,RETRO-REF,10-30V,N.O/C
13	955618	4	NUT HEX NYLOC 1/2-13 UNC SST
14	955619	38	NUT HEX NYLOC 5/16-18 UNC SST
15	955661	6	NUT HEX NYLOC 1/4-20 UNC SST
16	955939	4	WASHER, LOCK 5/16" SST
17	955940	10	WASHER LOCK 1/4" SST
18	955976	24	WASHER FLAT 5/16 SST
19	955977	6	WASHER FLAT 1/4" SST
20	978916	2	SCREW SOC HD CAP #10-24 X 1" SST
21	988328	4	SCREW FIN HEX 1/2-13 X 1 3/4 SST
22	989712	13	SCREW FIN HEX 5/16-18 X 3/4 SST
23	989716	20	SCREW FIN HEX 5/16-18 X 1 SST
24	989744	2	SCREW FIN HEX 5/16-18 X 2 3/4 SST
25	989748	4	SCREW FIN HEX 5/16-18 X 3 SST
26	989912	5	SCREW FIN HEX 1/4-20 X 3/4" SST
27	989956	REF.	SCREW FIN HEX 1/4-20 X 3 1/2 SST
28	C03845	REF.	SPACER. 9/32 X 3/4 X 3/4, SST
29	C05144	REF.	VALVE NC 1/4 SST 24VDC
30	C06231	REF.	ASSY BOLTED CROSS SPLITTER R/L
31	C06236	REF.	ASSY, PAN STOP CS1 STOP POSITION
32	C06249	2	PLATE, SPACER
33	C06253	REF.	CHANNEL, MOUNTING PLATE, CS1
34	C06308	2	A/W, STOP MOUNT
35	C06320	2	BRACKET, UPRIGHT, CS1
36	C06321	2	BRACKET, UPRIGHT, CS1
37	C06322	1	CHANNEL, ELEC BOX MOUNT
38	77151-100	1	A/W, TOP COVER, 52”
39	77151-104	1	A/W, MTG. TUBE, PAN STOP, 52”
40	C06358	REF.	SLIDE BAR SHORT
41	C06359	REF.	CENTER BAR
42	C06459	REF.	VALVE, SOLENOID, 115V.
43	C07620	1	RESTRAINT-CONDUIT CSI
REF	305376	1	BRACKET RESTAINT

C0623402 ISSUE “J”

	DIM " A" IS	PARTS USED	DESCRIPTION	OPT. NO.
**	37.00	C06253	BURFORD, 37"	C0689801
**	43.625	300476	LANHAM 36" CONV.	C069803
**	44.50	C06341	LANHAM 42" CONV.	C0689804
**	39.50	300518	34" CONVEYOR	C0689806
**	49.00	C06229	43" CONVEYOR	C0689807
, *		300901,300959,C041121-22-23-25	CANTILEVER, 30-42"	C0689808
, *	34" TO 39"	C06357,C06359,& C06363	UP TO 14" < FRAME	C0689809
, *	40" TO 48"	C06358,C06359,& C06368	UP TO 8" < FRAME	C0689810
, *	30" TO 36"	C06359,C06363,& C06368	UP TO 17" < FRAME	C0689811
**	42.00	300519	BURFORD, 42"	C0689812

* NOTE: SEE ILLUSTRATION AND CHART ABOVE
** NOTE: HARDWARE QUANITY = 12 EA.
*** NOTE: HARDWARE QUNATIY = 8 EA.
**** NOTE: HARDWARE QUANTIY = 16 EA.

L.H. ASSY ENCLOSURE LOCATION

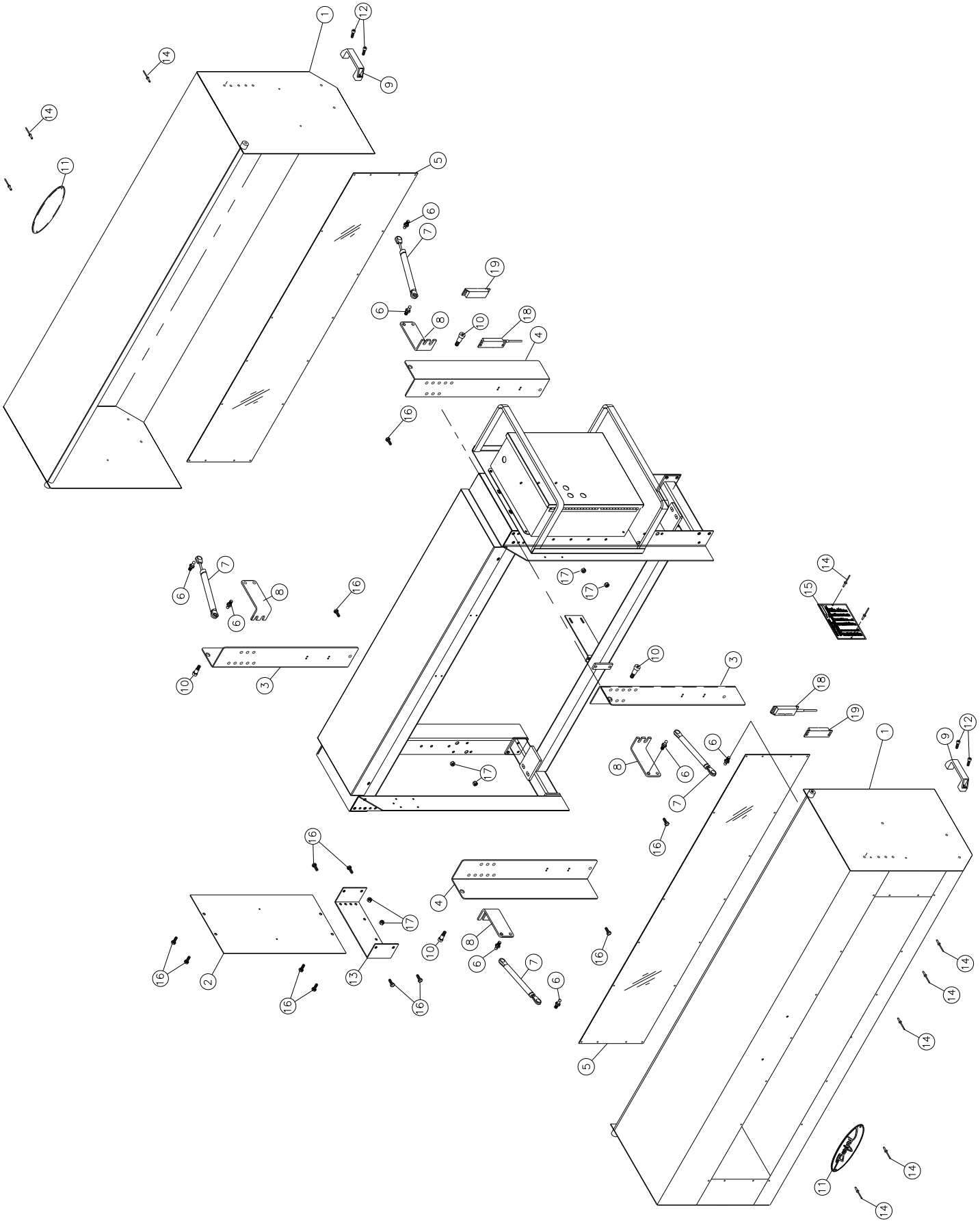
R.H. ASSY ENCLOSURE LOCATION

FRAME MOUNTING CS1-R/L
C0623402 ISSUE "J"

10.4 ASSEMBLY, GUARD PACKAGE (covers)

ITEM #	PART #	QTY	DESCRIPTION
1	77151-107	2	A/W, COVER, 52”
2	305363	1	PLATE, END GUARD
3	305661	2	BRACKET, COVER MOUNTING
4	305660	2	BRACKET, COVER MOUNTING
5	77151-111	2	WINDOW, LEXAN, 52”
6	305423	4	STUD, GAS SPRING BALL
7	305422	4	SPRING, GAS, 12” STROKE
8	305367	4	PLATE, GAS SPRING MOUNTING
9	C04663	2	HANDLE, PLASTIC COVER
10	975208	4	SCREW, SHOULDER, ½” X ½” X 3/8-16
11	A08049	2	NAMEPLATE, BURFORD
12	978312	4	SCREW, SOCKET HEAD CAP, ¼-20 X ¾”
13	C06322	1	BRACKET, ELECTRICAL BOX MOUNTING
14	955540	42	RIVET, BLIND, 5/32” DIAMETER X ½”
15	112643	1	PLATE, LARGE SERIAL
16	989912	12	SCREW, FIN HEX, ¼-20 X ¾”
17	955661	14	NUT, HEX NYLOC, ¼-20 UNC, SST
18	C07219	REF	SWITCH, MAGNETIC KEYED
19	C07220	REF	MAGNET, ACTUATOR

305360 ISSUE “C”

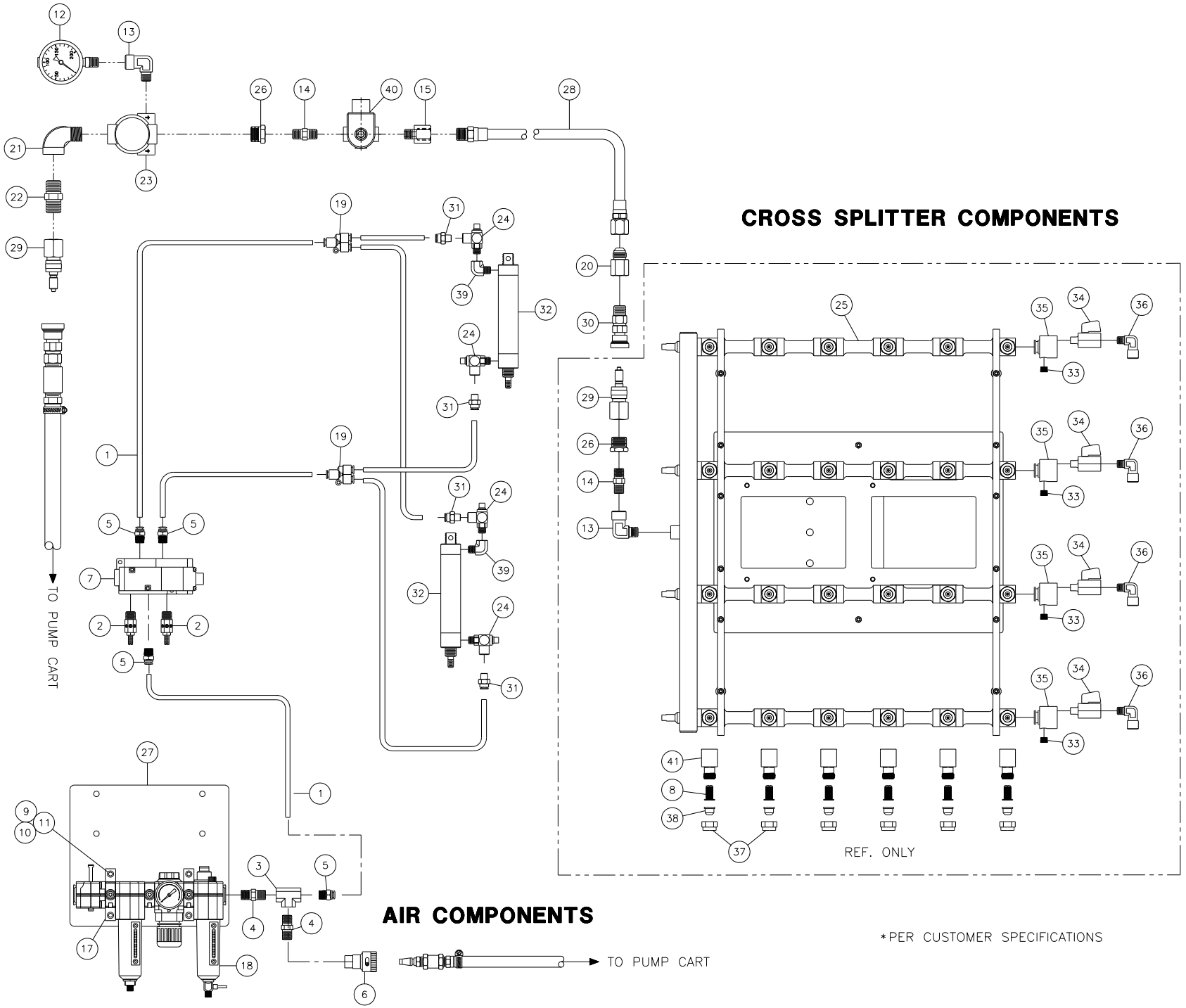


10.5 ASSEMBLY, PNEUMATIC & WATER COMPONENTS (single hose - std)

ITEM #	PART #	QTY	DESCRIPTION
1	610885-05	10'	TUBING, ¼" YELLOW POLYURETHANE
2	110345	2	RESTRICTOR, SPEED CONTROL
3	110412	1	FITTING, TEE, ¼" NPT
4	110414	2	FITTING, NIPPLE, ¼" NPT
5	401152	4	FITTING, ¼" NPT X ¼" HOSE, QUICK RELEASE
6	118872	1	FITTING, BODY, ¼" FPT X QUICK RELEASE
7	C07105	REF	VALVE, SOLENOID, 4-WAY, AIR, 5 PORT, 1/8" ORIFICE
8	611459	*	VALVE, CHECK w/STRAINER, 20 PSI
9	955661	4	NUT, HEX NYLOC, ¼-20 UNC
10	955977	4	WASHER, FLAT, ¼"
11	989912	4	SCREW, FIN HEX, ¼-20 X ¾"
12	A06707	1	GAUGE, 0 – 200 PSI, SST
13	A06857	1	FITTING, ELBOW, ¼", SST
14	A06878	1	FITTING, NIPPLE, ¼" NPT X 1-1/2", SST
15	A07003	1	FITTING, ADAPTER, 3/8" FLAIR X ¼" MPT
16	303330	1	A/W, VALVE MOUNT (NOT SHOWN)
17	C00399	2	KIT, UNIVERSAL MOUNTING
18	C00404	1	FRL COMBO
19	610531	2	FITTING, "Y", ¼" X ¼"
20	C07612	1	FITTING, ADAPTER, ½" NPTF X ¾" JIC, SST
21	C05575	1	FITTING, ELBOW, ½" NPT, SST
22	C01018	1	FITTING, NIPPLE, ½" NPT X 2", SST
23	C07621	1	REGULATOR, WATER, ½" NPT
24	119590	REF	FLOW CONTROL, 1/8"
25	*	REF	A/W, MANIFOLD ASSEMBLY
26	C01951	1	FITTING, BUSHING, ½" X ¼", SST
27	C03335	1	PLATE, FRL MOUNTING
28	C04803	1	ASSEMBLY, HOSE, 72" LONG X 3/8", SST
29	C07622	1	FITTING, QUICK CONNECT STEM, ½" FPT, SST
30	C07623	1	FITTING, QUICK CONNECT BODY, ½" MPT, SST
31	119534	REF	FITTING, 1/8" NPTM, PUSH ON
32	174047	REF	CYLINDER, AIR
33	611546	*	FITTING, PLUG, 1/8" NPTM, SOCKET, SST
34	611545	*	VALVE, PURGE, ON/OFF/SERVICE
35	713704	*	BLOCK, MODULAR, 1/8" NPT, END, O-RING
36	A06942	*	FITTING, ELBOW, 1/8", SST
37	C00506	*	CAP, RETAINER
38	C00543	*	TIP, TEE JET
39	C00962	REF	FITTING, ELBOW, 1/8", BRASS
40	305932	REF	VALVE, NORMALLY CLOSED, 24 VDC, ¼"
41	713703	*	BLOCK, MODULAR, NOZZLE, O-RING

C06237 ISSUE "E"

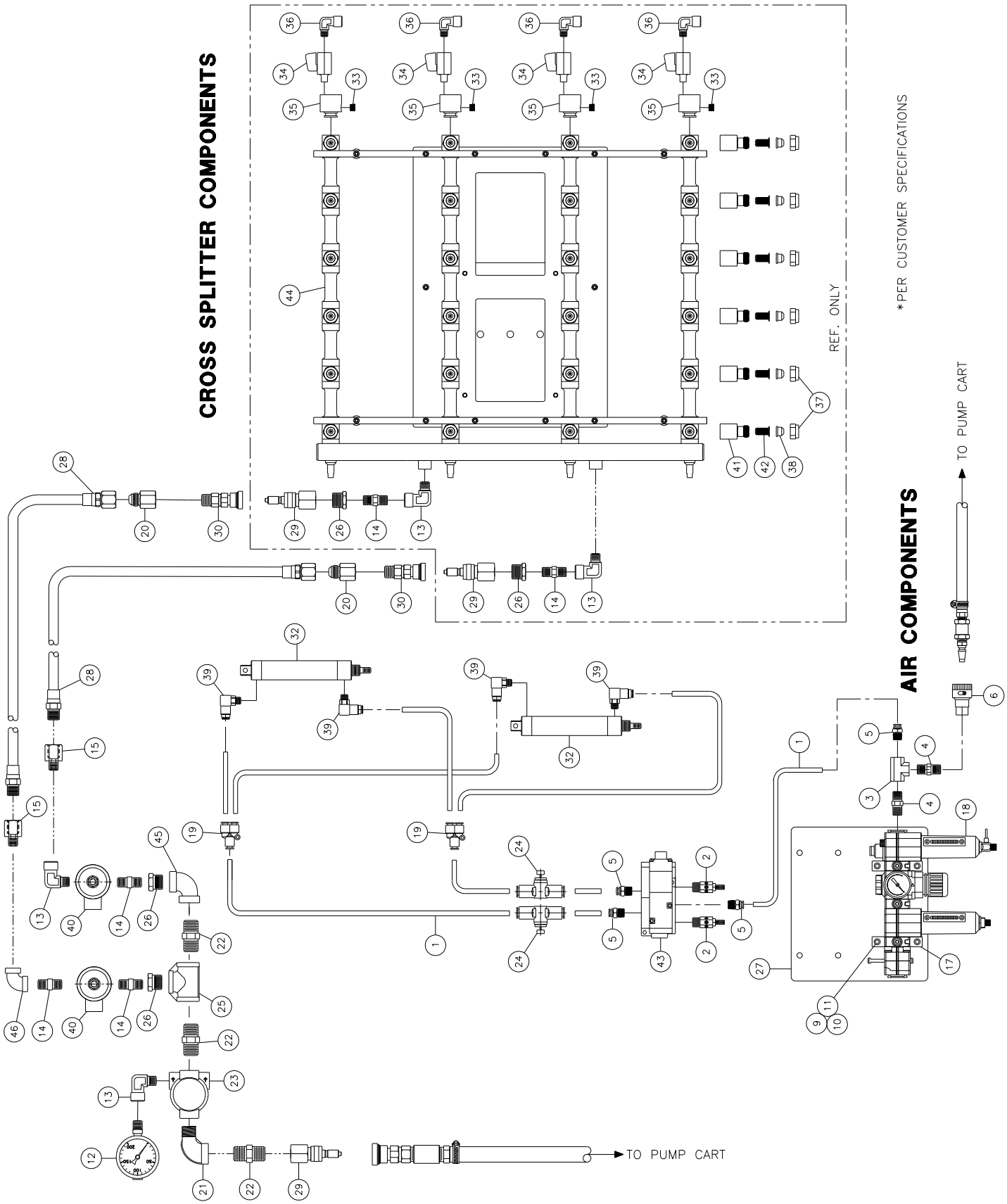
* - PER CUSTOMER SPECIFICATIONS.


CROSS SPLITTER COMPONENTS
REF. ONLY
AIR COMPONENTS
TO PUMP CART
TO PUMP CART
*PER CUSTOMER SPECIFICATIONS

10.6 ASSEMBLY, PNEUMATICS & WATER COMPONENTS (dual hose)

ITEM #	PART #	QTY	DESCRIPTION
1	610885-05	10'	TUBING, ¼" YELLOW POLYURETHANE
2	110345	2	RESTRICTOR, SPEED CONTROL
3	110412	1	FITTING, TEE, ¼" NPT
4	110414	2	FITTING, NIPPLE, ¼" NPT
5	401152	4	FITTING, ¼" NPT X ¼" HOSE, QUICK RELEASE
6	118872	1	FITTING, BODY, ¼" FPT X QUICK RELEASE
7	300494	2	HOSE, DUAL RESTRAINT (NOT SHOWN)
8	302876	1	NUT, METAL PANEL MOUNTING (NOT SHOWN)
9	955661	4	NUT, HEX NYLOC, ¼-20 UNC
10	955977	4	WASHER, FLAT, ¼"
11	989912	4	SCREW, FIN HEX, ¼-20 X ¾"
12	A06707	1	GAUGE, 0 – 200 PSI, SST
13	A06857	1	FITTING, ELBOW, ¼", SST
14	A06878	2	FITTING, NIPPLE, ¼" NPT X 1-1/2", SST
15	A07003	2	FITTING, ADAPTER, 3/8" FLAIR X ¼" MPT
16	302910	1	BRACKET, REGULATOR MOUNTING (NOT SHOWN)
17	C00399	2	KIT, UNIVERSAL MOUNTING
18	C00404	1	FRL COMBO
19	610531	2	FITTING, "Y", ¼" X ¼"
20	C07612	2	FITTING, ADAPTER, ½" NPTF X ¾" JIC, SST
21	C05575	3	FITTING, ELBOW, ½" NPT, SST
22	C01018	3	FITTING, NIPPLE, ½" NPT X 2", SST
23	C07621	1	REGULATOR, WATER, ½" NPT
24	401302	2	FLOW CONTROL, 1/4"
25	C01924	1	FITTING, TEE, ½", SST
26	C01951	2	FITTING, BUSHING, ½" X ¼", SST
27	C03335	1	PLATE, FRL MOUNTING
28	C04803	2	ASSEMBLY, HOSE, 72" LONG X 3/8", SST
29	C07622	1	FITTING, QUICK CONNECT STEM, ½" FPT, SST
30	C07623	2	FITTING, QUICK CONNECT BODY, ½" MPT, SST
31	119534	4	FITTING, 1/8" NPTM, PUSH ON
32	174047	REF	CYLINDER, AIR
33	A05470	*	FITTING, BUSHING, ¼" X 1/8", SST
34	611545	*	VALVE, PURGE, ON/OFF/SERVICE
35	A06905	*	FITTING, NIPPLE, 1/8" X 1", SST
36	A06942	*	FITTING, ELBOW, 1/8", SST
37	C00506	*	CAP, RETAINER
38	C00543	*	TIP, TEE JET
39	174049	REF	FITTING, ELBOW, 1/8" MPT X ¼" TUBE
40	C05144	REF	VALVE, SOLENOID, 24 VDC, 1-WAY, ¼" NPT, ¼" ORIFICE
41	713703	*	BLOCK, MODULAR, NOZZLE, O-RING
42	611459	*	VALVE, CHECK w/STRAINER, 20 PSI
43	305932	REF	VALVE, SOLENOID, 24 VDC, 4-WAY, ¼" NPT, 1/8" ORIFICE
44	*	REF	A/W, MANIFOLD ASSEMBLY
45	C01945	1	FITTING, ELBOW, ½" NPTF, SST
46	C01946	1	FITTING, ELBOW, ¼" NPTF, SST

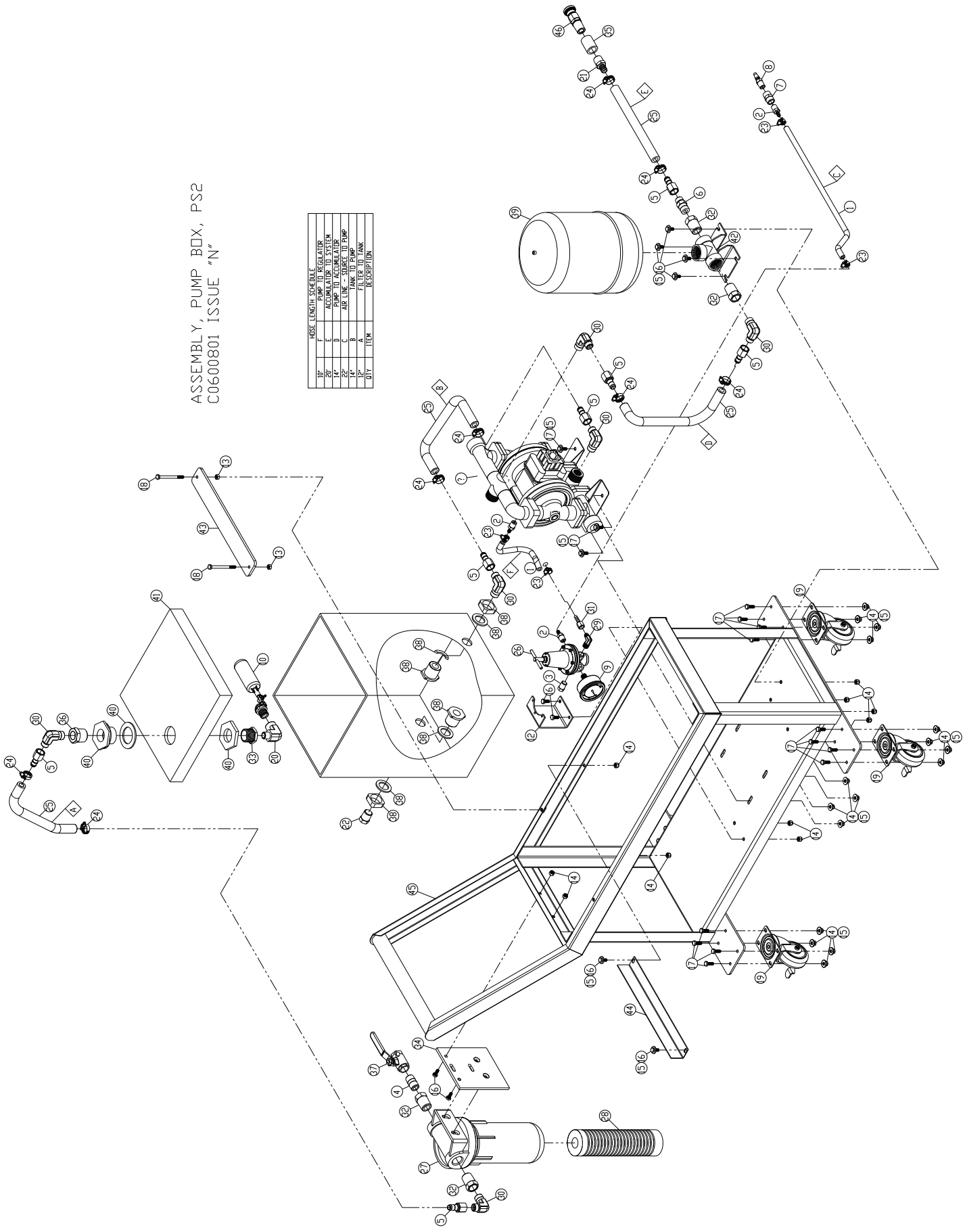
C06237-02 ISSUE "H"


CROSS SPLITTER COMPONENTS
REF. ONLY
*PER CUSTOMER SPECIFICATIONS
AIR COMPONENTS
TO PUMP CART
TO PUMP CART

10.7 ASSEMBLY, PUMP BOX, PS2

ITEM #	PART #	QTY.	DESCRIPTION
1	103878	23'	HOSE, AIR 1/4" DIA NEOPRENE
2	110415	3	FITTING, 1/4 NPT M PUSH ON
3	110423	1	FITTING, 1/4" NPT PLUG
4	110426	1	FITTING,NIPPLE,CLOSE,1/2 NPTM,BRS
5	110430	7	FITTING,HOSE BARB,3/4-16JIC X 1/2H
6	110431	1	FITTING,CONN,1/2MPT X 3/4-16F,BRS
7	112034	1	FITTING,COUPLING,1/4 NPTF,BRS
8	118871	1	FITTING,QC,STEM,AIR,1/4 NPTM,BRS
9	303674	1	GAUGE 0-200 PSI 1/4 NPT BACK MT SST
10	305716	1	FLOAT VALVE MINI ADJ 1/2"
11	611121	1	PUMP, AIR POWERED DBL DIAPHRAGM
12	713714	1	REGULATOR BRACKET, PUMP CART
13	955409	2	NUT HEX JAM 1/4-20 UNC SST
14	955661	30	NUT HEX NYLOC 1/4-20 UNC SST
15	955977	30	WASHER FLAT 1/4" SST
16	989910	10	SCREW FIN HEX 1/4-20 X 5/8" SST
17	989912	20	SCREW FIN HEX 1/4-20 X 3/4" SST
18	989948	2	SCREW FIN HEX 1/4-20 X 3 SST
19	A04225	4	CASTER, 3" LOCKING/SWIVEL, 145#
20	A06856	1	FITTING, REDUCING ELL 1/2F X 3/8M SS
21	A06859	1	FITTING, 1/2MPT X 1/2 TUBE
22	A07726	1	FITTING, PLUG 1/2" PVC
23	C00414	4	CLAMP 1/4" TO 5/8" SST
24	C00415	8	CLAMP #6 STAINLESS HOSE
25	C00435	24'	HOSE, 1/2" VINYL W/ POLYESTER
26	C00537	1	REGULATOR, AIR, 1/4 NPT PORTS
27	C00578	1	FILTER, WATER, 3/4" NPTF
28	C00579	1	FILTER REPLACEMENT # EC110
29	C00998	1	FITTING 49FB 1/4 X 7/16 JIC 90 BR
30	C01903	6	FITTING,ELL,1/2MPT X 3/4-16F,BRS
31	C01915	1	FITTING,HOSE BARB,7/16-20JIC X 1/4H
32	C01947	4	FITTING, BUSHING, 3/4 X 1/2 SST
33	C01958	1	FITTING,REDUCER,1" MPT X 3/8FPT,SST
34	C02343	1	BRACKET WATER FILTER
35	C03613	1	FITTING,COUPLING,1/2 NPTF,SST
36	C05339	1	FITTING, REDUCER, 1" x 1/2" SST
37	C05431	1	VALVE, 1/2 NPT 2-WAY, BALL, SST
38	C05576	2	FITTING, 1/2 NPT BULKHEAD, PL.
39	C06171	1	TANK, WATER RECHARGER
40	C06174	1	FITTING, BULKHEAD 1" POLY
41	C06176	1	RWK, TANK & COVER
42	C06183	1	TEE MOUNT A/W
43	C06195	1	PLATE, COVER CLAMP
44	C06196	1	BRACKET, UPPER TANK
45	C06200	1	A/W, TANK BASE
46	C07623	1	QUICK CONNECT BODY, 1/2 MPT

C0600801 ISSUE "N"

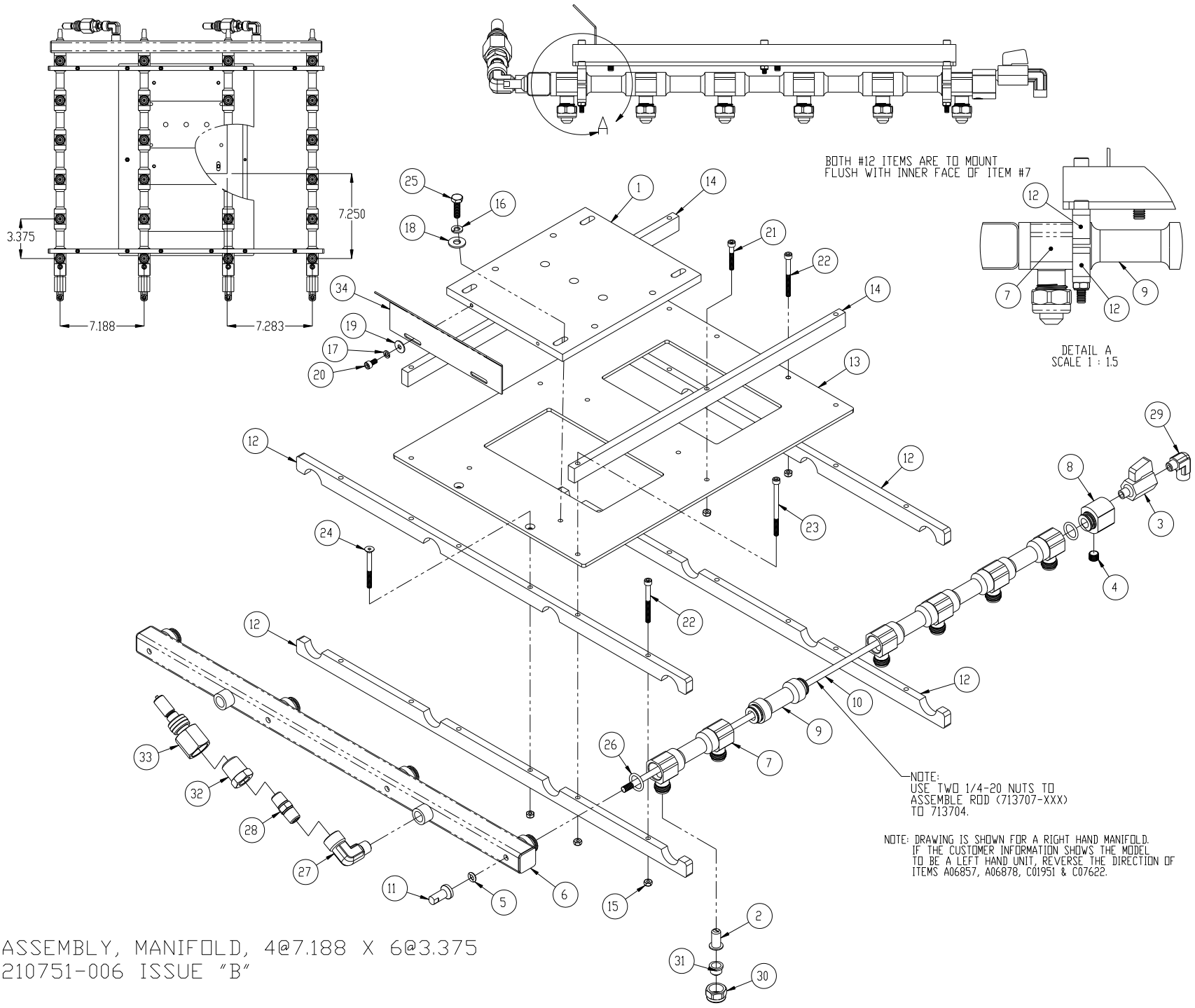

ASSEMBLY, PUMP BOX, PS2
C0600801 ISSUE "N"
HOSE LENGTH SCHEDULE
10" F PUMP TO REGULATOR
20" E ACCUMULATOR TO SYSTEM
14" D PUMP TO ACCUMULATOR
22" C AIR LINE - SOURCE TO PUMP
14" B TANK TO PUMP
12" A FILTER TO TANK
QTY ITEM DESCRIPTION

10.8 ASSEMBLY, STANDARD MANIFOLD

ITEM #	PART #	QTY	DESCRIPTION
1	300565	1	MANIFOLD CENTER PLATE
2	611459	24	CHECK VALVE,STRAINER,20 PSI
3	611545	4	VALVE, 1/8 NPT, M-F
4	611546	4	FITTING, PLUG,1/8 NPTM, SOCKET, SS
5	611549	4	O-RING, SILICONE, .237 ID, .103 CS
6	713701-	1	A/W, MODULAR, MANIF BACK, 4@7.188
7	713703	24	BLOCK, MODULAR, NOZZLE, O-RING
8	713704	4	BLOCK, MODULAR, 1/8NPT, END, O-RING
9	713706-	20	TUBE, MODULAR, O-RING
10	713707-	4	ROD, MODULAR, 1/4-20, 20.2"
11	713709	4	NUT, MODULAR, 1/4-20. TAKE UP
12	713710-	4	BRACKET, MANIF, 4@7.188
13	713712-	1	PLATE, 4@7.188X6@3.375 CLAMP MOUNT
14	713713-	2	BAR, STIFFENER, CS MANIFOLD
15	955621	14	NUT HEX NYLOC #10-24 UNC SST
16	955940	4	WASHER LOCK 1/4" SST
17	955941	2	WASHER LOCK #10 SST
18	955977	4	WASHER FLAT 1/4" SST
19	955978	2	WASHER FLAT #10 SST
20	978906	2	SCREW SOC HD CAP #10-24 X 3/8 SST
21	978920	2	SCREW SOC HD CAP #10-24 X 1 1/4 SST
22	978932	6	SCREW SOC HD CAP #10-24 UNC X 2 SST
23	978944	4	SCREW SOC HD CAP #10-24 UNC X 2 3/4 SST
24	982332	2	SCREW FLT HD SOC #10-24 X 2 SST
25	989914	4	SCREW FIN HEX 1/4-20 X 7/8 SST
26	A06751	48	O-RING, .625 ID X .093 THICK
27	A06857	2	FITTING,STREET ELL,1/4M X 1/4F,SST
28	A06878	2	FITTING,NIPPLE,HEX,1/4 NPTM,SST
29	A06942	4	FITTING,STREET ELL,1/8M X 1/8F,SST
30	C00506	24	RETAINER CAP CP1325-NP
31	C00543	24	TIP, SPLITTER .019
32	C01951	2	FITTING, 1/2NPT X 1/4FPT REDUCING BUSHING
33	C07622	2	FITTING,QC,STEM,LIQ,1/2 NPTF,SST
34	QT1216	1	TEMPLATE, OPTIC, 1 @ 6.75, CS-1

210751-006 Issue “B”

Note: Contact Burford Corporation for additional manifold options.



ASSEMBLY, MANIFOLD, 4@7.188 X 6@3.375
210751-006 ISSUE "B"

10.9 WIRING DIAGRAM

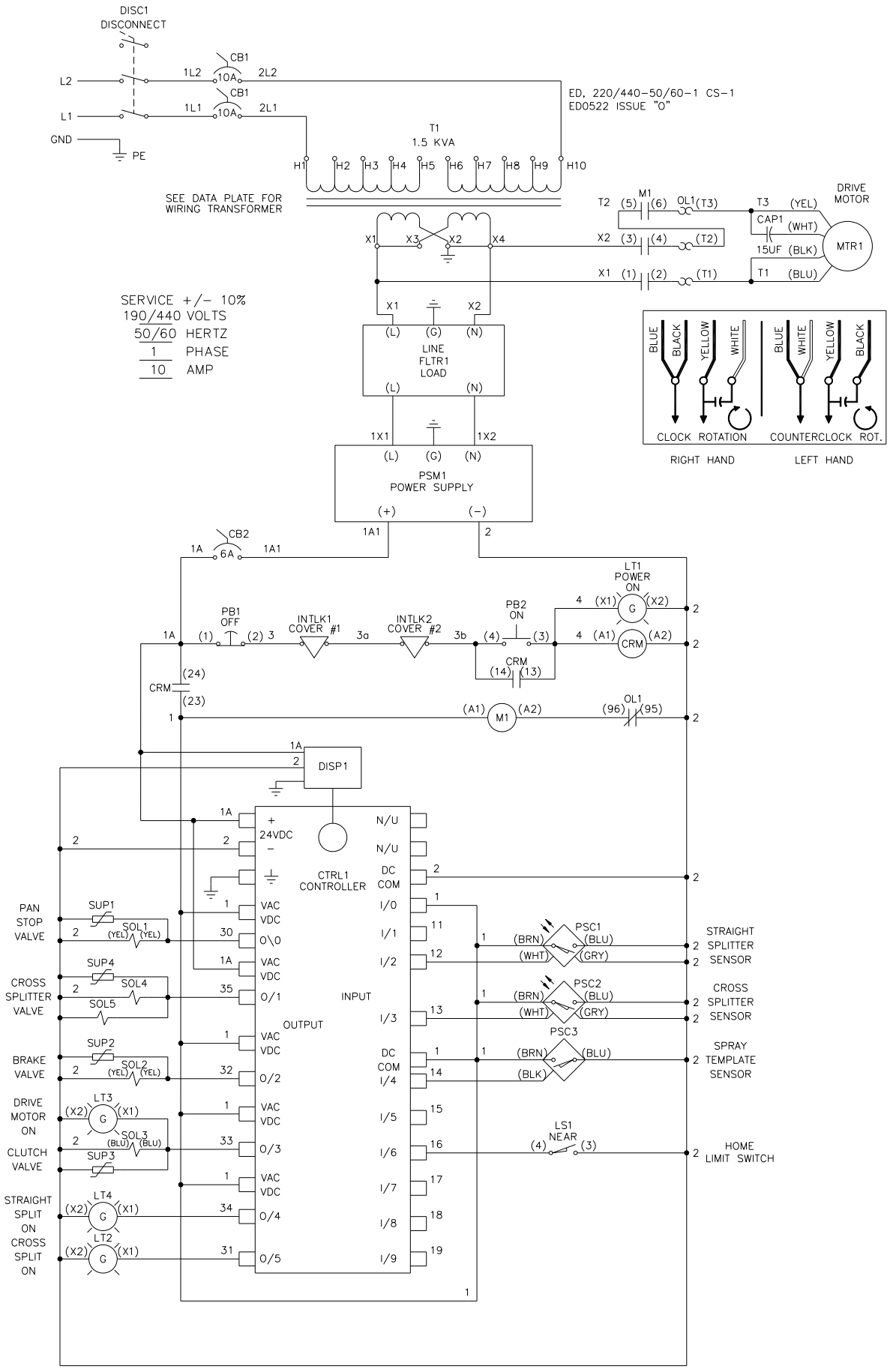
REF	SYMBOL	PART #	QTY	DESCRIPTION
1	CAP1	-	-	CAPACITOR, 15UF, PART OF MTR1
2	CB1	C07650-210	1	CIRCUIT BREAKER, 600 VOLT, 10 AMP
3	CB2	C07649-006	1	CIRCUIT BREAKER, 250 VOLT, 6 AMP
4	CB2 P/O	C07649-100	1	BASE, 250 VOLT CIRCUIT BREAKER
5	CBL1	610661	1	CABLE, COMMUNICATION
6	CRM	C07245	1	CONTACTOR, 24 VDC
7	CTRL1	C07476	1	CONTROLLER, MICROLOGIX, 24 VDC
8	DISC1	A02345	1	DISCONNECT, MAIN, 3 POLE
9	DISC1 P/O	A02346	1	HANDLE, DISCONNECT
10	DISC1 P/O	610342-004	1	SHAFT, DISCONNECT
11	DISP1	610655	1	INTERFACE, OPERATOR
12	ENC1	C07480	1	ENCLOSURE, MAIN ELECTRICAL
13	ENC1 P/O	C03845	4	SPACER, 9/32" X ¾" X ¾"
14	ENC1 P/O	302554	1	GUARD, ELECTRICAL ENCLOSURE
15	ENC2	111094	1	ENCLOSURE, JUNCTION BOX
16	FLTR1	C05818	1	FILTER, ELECTRICAL LINE, 250 VOLT
17	GND	C06488	1	LUG, GROUNDING
18	GNDSTRP	C07155	1	STRAP, DOOR GROUNDING, 10"
19	INTLK1,2	C07219	2	SENSOR, INTERLOCK, MAGNETIC, KEYED
20	INTLK1,2 P/O	C07220	2	MAGNET, ACTUATOR
21	LS1	103972	1	SENSOR, LIMIT SWITCH
22	LS1 P/O	111043	1	ARM, ACTUATOR
23	LT1-4	C01301	4	LIGHT ASSEMBLY w/LATCH, 24 VDC
24	LT1-4 P/O	C01218	4	LENS COVER, GREEN
25	LT1 P/O	C01263	1	NAMEPLATE, "POWER ON"
26	LT2 P/O	C07455	1	NAMEPLATE, "CROSS SPLITTER ON"
27	LT3 P/O	C07454	1	NAMEPLATE, "DRIVE MOTOR ON"
28	LT4 P/O	C07449	1	NAMEPLATE "STRAIGHT SPLITTER ON"
29	M1	C06702	1	CONTACTOR, MOTOR STARTER, 24 VDC
30	MTR1	C07475	1	MOTOR, CLUTCH/BRAKE w/GEARBOX, 100 VAC
31	OL1	C06751	1	RELAY, OVERLOAD, ADJUSTABLE, 1.0 – 1.6 AMP
32	PB1	C01214	1	SWITCH, PUSHBUTTON, RED, MUSHROOM
33	PB1 P/O	C07101	1	CONTACT CARTRIDGE, NORMALLY CLOSED
34	PB1 P/O	C01265	1	NAMEPLATE, "OFF"
35	PB2	C01213	1	SWITCH, PUSHBUTTON, GREEN, FLUSH
36	PB2 P/O	C07102	1	CONTACT CARTRIDGE, NORMALLY OPEN
37	PB2 P/O	C01264	1	NAMEPLATE, "ON"
38	PNL1	C06019	1	PANEL, MAIN ELECTRICAL
39	PNL2	C06969	1	PANEL, JUNCTION BOX ELECTRICAL
40	PSC1, 2	610797	2	SENSOR, PHOTO, RETRO-REFLECTIVE, PNP

EDO522 ISSUE "O"

10.9 WIRING DIAGRAM, cont'd.

REF	SYMBOL	PART #	QTY	DESCRIPTION
41	PSC1, 2 P/O	C06753	2	CABLE, SENSOR, M12, 5 WIRE, FEMALE, STRAIGHT
42	PSC3	C07629	1	SENSOR, FIBER OPTIC RECEIVER
43	PSC3 P/O	C07630	1	CABLE, FIBER OPTIC
44	PSM1	C07474	1	POWER SUPPLY MODULE, 110/220 VAC – 24 VDC
45	SOL1	C07105	1	VALVE, SOLENOID, 24 VDC, NUMATIC
46	SOL2,3	-	-	VALVE, SOLENOID, CLUTCH/BRAKE, PART OF MTR1
47	SOL4,5	305932	2	VALVE, SOLENOID, 24 VDC
48	SUP1,4	C05724	2	SUPPRESSOR, TRANSIENT, 25 VAC / 31 VDC
49	SUP2,3	-	-	SUPPRESSOR, TRANSIENT, PART OF MTR1
50	TB1,3 P/O	C05843	90	TERMINAL, MARKER STRIP, BLANK
51	TB1,3 P/O	C06369	5	TERMINAL, JUMPER, 2 POSITION
52	TB3 P/O	C06411	1	TERMINAL, JUMPER, 3 POSITION
53	TB1,3 P/O	C06461	30	TERMINAL, BLOCK, SINGLE LEVEL
54	TB1,3 P/O	C06462	2	TERMINAL, END COVER, SINGLE LEVEL
55	TB1,3 P/O	C06463	1	TERMINAL, JUMPER, 10 POSITION
56	TB1-3 P/O	C06464	32"	RAIL, DIN MOUNTING
57	TB1-3 P/O	C06465	6	TERMINAL, CLAMP, END ANCHOR
58	TB1,3 P/O	C06525	5	TERMINAL, GROUNDING
59	TB1 P/O	C07113	2	TERMINAL, DIODE RECEPTACLE BASE
60	TB1 P/O	C07114	2	TERMINAL, DIODE HOLDER
61	TB1 P/O	C07115	1	TERMINAL, DIODE HOLDER END COVER
62	TB1 P/O	C07117	15	TERMINAL, BLOCK, DUAL LEVEL
63	TB1 P/O	C07118	1	TERMINAL, END COVER, DUAL LEVEL
TRANSFORMER CIRCUIT				
1	T1	A06997	1	TRANSFORMER, 1.5 KVA, 190/220/380/440 VOLT
2	T1 P/O	C03403	1	PLATE, TRANSFORMER MOUNTING
3	-	C07186	0.5	TERMINAL STRIP, 10 POSITION

ED0522 ISSUE "O"


DISC1
DISCONNECT
CB1
10A
1L2
2L2
L2
CB1
10A
1L1
2L1
L1
GND
PE
ED. 220/440-50/60-1 CS-1
ED0522 ISSUE "0"
T1
1.5 KVA
H1 H2 H3 H4 H5 H6 H7 H8 H9 H10
SEE DATA PLATE FOR
WIRING TRANSFORMER
M1
OL1
T2 (5) (6) (T3)
T3 (YEL)
CAP1 (WHT)
15UF (BLK)
T1 (BLU)
DRIVE
MOTOR
MTR1
X1 X3 X2 X4
X2 (3) (4) (T2)
X1 (1) (2) (T1)
SERVICE +/- 10%
190/440 VOLTS
50/60 HERTZ
1 PHASE
10 AMP
X1 X2
(L) (G) (N)
LINE
FLTR1
LOAD
(L) (N)
1X1 1X2
(L) (G) (N)
PSM1
POWER SUPPLY
(+) (-)
1A1
2
BLUE BLACK YELLOW WHITE
CLOCK ROTATION
RIGHT HAND
BLUE WHITE YELLOW BLACK
COUNTERCLOCK ROT.
LEFT HAND
CB2
1A
6A
1A1
LT1
POWER
ON
PB1
OFF
INTLK1
COVER #1
INTLK2
COVER #2
PB2
ON
CRM
(24)
(23)
(14) (13)
(A1) M1 (A2)
(96) (95)
DISP1
CTRL1
CONTROLLER
+
24VDC
-
DC
COM
N/U
INPUT
OUTPUT
I/0
I/1
I/2
I/3
I/4
I/5
I/6
I/7
I/8
I/9
VAC
VDC
O\0
O/1
O/2
O/3
O/4
O/5
PAN
STOP
VALVE
SUP1
SOL1
CROSS
SPLITTER
VALVE
SUP4
SOL4
SOL5
BRAKE
VALVE
SUP2
SOL2
DRIVE
MOTOR
ON
CLUTCH
VALVE
LT3
SOL3
SUP3
STRAIGHT
SPLIT
ON
LT4
CROSS
SPLIT
ON
LT2
PSC1
PSC2
PSC3
(BRN) (WHT) (BLU) (GRY) (BLK)
STRAIGHT
SPLITTER
SENSOR
CROSS
SPLITTER
SENSOR
SPRAY
TEMPLATE
SENSOR
LS1
NEAR
HOME
LIMIT SWITCH