

90mm Tape-off Device
For an
Orion Printer

90mm Tape Off

Release 1.0

Product Manual

9891-00-000

**Designed for operation
on an Orion 130 Printer**

9891-01-000

For Orion w/Cupslide

Release 1.0

PAGE 1-1



Trusted Partner for Your Product Decorating Needs

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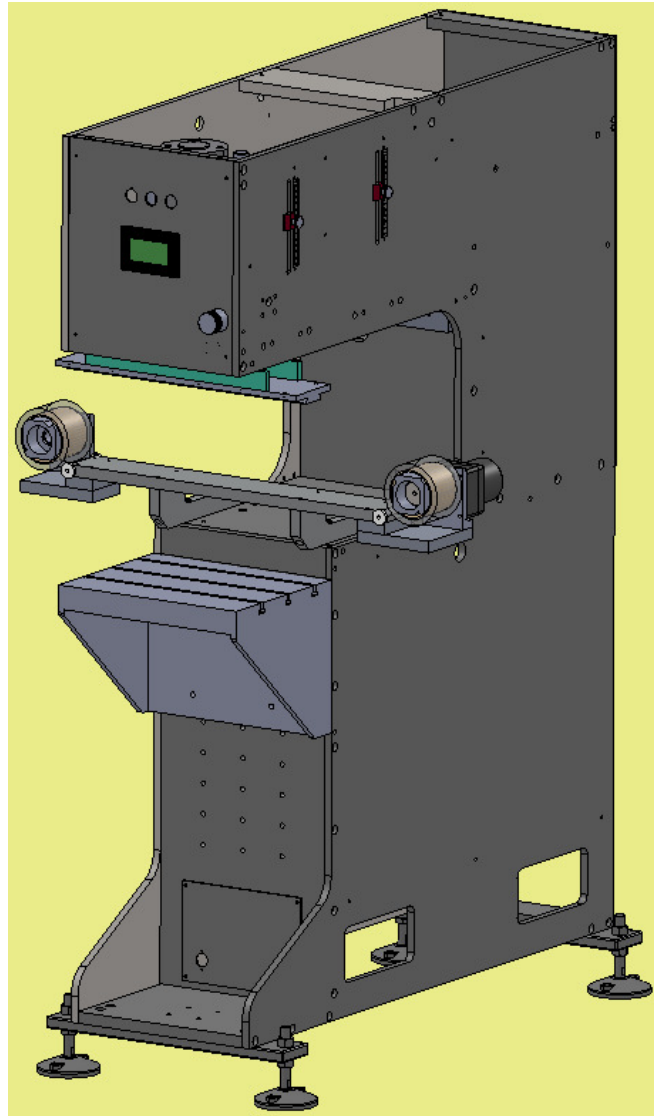
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90mm Tape-off Device For an Orion Printer

Overview

This pad cleaning device is designed solely for use on an Orion 130 Pad printing machine which utilizes a standard cliché holder. There is another model which is designed for use with a cup slide module. The tape is pulled across the tape plate by an electric motor. The amount of tape pulled at each command and the frequency of tape clean cycles is programmable via the touchscreen on the front of the printer. This unit is practically maintenance free except for the occasional replenishment of the tape and routine cleaning.



**90mm Tape-off Device
For an
Orion Printer**

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1. Safety

Symbols and their Interpretations



WARNING Neglecting a safety instruction identified with the **WARNING** symbol may lead to personal injury.



CAUTION Neglecting a safety instruction identified with the **CAUTION** symbol may lead to property damage.



POINTER It is strongly recommended to observe instructions identified with a **POINTER** symbol.

Liability



- In no event will **ITW TRANS TECH** be responsible or liable for indirect or consequential damages resulting from the use of this equipment.
- The information contained in this manual is subject to change due to improvements in design.
- Though this document has been checked for inaccuracies, **ITW TRANS TECH** does not assume responsibility for any errors contained herein.
- This manual is provided as an aid when operating the Orion 130 pad printing machine. Prior to operation, it is strongly advised that the user be thoroughly familiar with the Orion 130 operating manual.
- **ITW TRANS TECH** is not responsible or liable for any disadvantage occurred for not following the operating instructions.



All operators must be sufficiently trained.

Warnings and Cautions



- Switch off main switch prior to connecting/disconnecting power.
- Disconnect power prior to opening the electrical enclosure.



Switch the MAIN DISCONNECT off and disconnect the power cord prior to working on the electrical system.

Application Restrictions



Any use other than described in this manual may cause damage to the equipment, personal injury or property damage.

2. Installation

The normal procedure is to order the tape off device when buying a new Orion 130 printer. If it is desired to add a tape off device to an Orion 130 printer which is already in use, we highly recommend that the printer be sent to our facility in Carol Stream, Illinois where we can correctly install it and verify its proper operation. If field installation is desired, arrangements can be made.

It is very important to remember that our highly experienced staff is only a phone call away at 630-752-4000 to be of assistance. Please don't hesitate to call if the need arises.

3. Operation

There is a screen in the HMI which controls the operation of the tape off device. Please consult the Orion 130 operator's manual for how to navigate through the various screens.

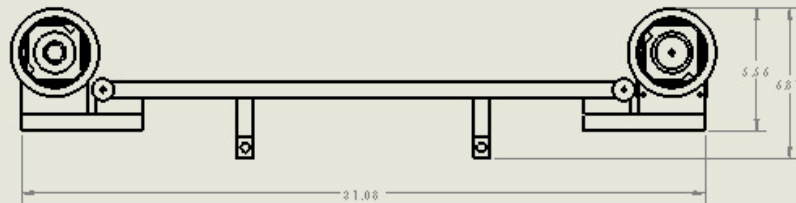
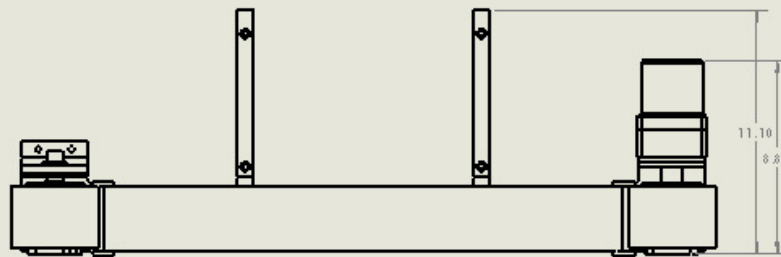
1. From the "ACCESSORIES" screen choose "PAD CLEAN".
2. From the "PAD CLEAN" screen:
 - a. Choose "ON"
 - b. Choose "WITH"
 - c. "INTERVAL=" touching this will cause a numeric keypad to appear allowing the interval to be adjusted. *The interval is the number of print cycles between cleaning cycles.*
 - d. "PULL TIME=" touching this will cause a numeric keypad to appear allowing the pull time to be adjusted. *This is the amount of time that the motor which pulls the tape, runs. This should be set to the optimum time which moves the tape enough for the pad(s) to be properly cleaned at the next pad clean cycle.*
3. To clean the pad(s) at any time go to the "MANUAL" screen and press the "CLEAN PAD" button. The printer will perform one complete pad clean cycle.
4. To disable the tape off, go to the "PAD CLEAN" screen and choose "OFF".

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4. Maintenance

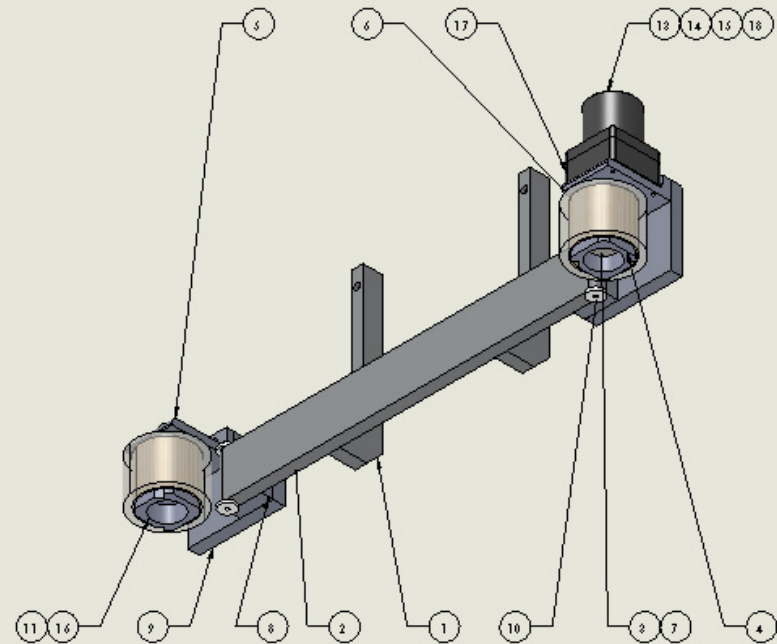
Other than routine tape replenishment there is no maintenance required on this unit. In the unlikely event of a component needing replacement, refer to the attached bills of materials and contact our parts and service department.

It is very important to remember that our highly experienced staff is only a phone call away at 630-752-4000 to be of assistance. Please don't hesitate to call if the need arises.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	9891-00-001	TAPE ASSEMBLY BAR	2
2	9891-00-002	TAPE RUN BAR	1
3	9670-01-007	ROLLER POST CAP	1
4	9670-01-011	SPOOL	1
5	9670-01-014	ANGLE BRACKET-TAPE ROLLER	1
6	9670-01-018	ANGLE BRACKET-TAPE MOTOR	1
7	9670-01-019	COUPLING-MOTOR/DRUM	1
8	7725-02-003	TAPE MOUNT SPACER	2
9	7725-02-004	END MOUNT	2
10	7725-02-005	TAPE GUIDE	4
11	860-01-020	Tape Drum Assembly (8" Wide Tape)	1
12	501-20-023	Socket Head Cap Screw, M5 X 70	4
13	222-05-009	Receptacle, Connector (P Contact)	1
14	222-05-044	Clamp, Cable (Cbl Shell 432" O.d, #12)	1
15	222-05-052	Contact Pin Male	5
16	860-01-021	M18 X 1 NUT	1
17	401-07-050	Gearbox, Ac	1
18	401-07-010	Motor, Ac	1
19	9891-00-100	STOP ASSEMBLY	1
20	7725-02-012	FLAG BAR	1

NOTE: ITEM #s 19 & 20 NOT DISPLAYED



REVISIONS		DATE		BY	DESCRIPTION
B	REVIEWED DESIGN	12/12/13	PSB		
A	INITIAL RELEASE	7/02	KS		
REV	DESCRIPTION	DATE	BY		

UNFINISH	PER BOH
FINISH	
DIMENSIONS IN INCHES (MM)	
TOLERANCES UNLESS SPECIFIED	
.6 ± .02 [0.5]	.006 ± .001 [0.12]
.006 ± .005 [0.12]	.0000 ± .0005 [0.012]
ANGLES 1:12	
MACHINED SURFACES $\sqrt{32}$	
BREAK CORNERS .026 [0.51] MAX	

DRAWN		CHECKED		INTERPRET PER ANSII Y14.5M	
ST	PSB	1220X	DWB	12112112	
APP'D:	ST	DATE:	041227	SCALE:	1:1
			DATE:	011798	
			DATE:	022798	
TAPING		TAP OFF ASSEMBLY			
DRAWING		9891-00-000			
REV	DESCRIPTION	DATE	BY		
B					
C					

NOTES:

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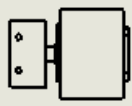
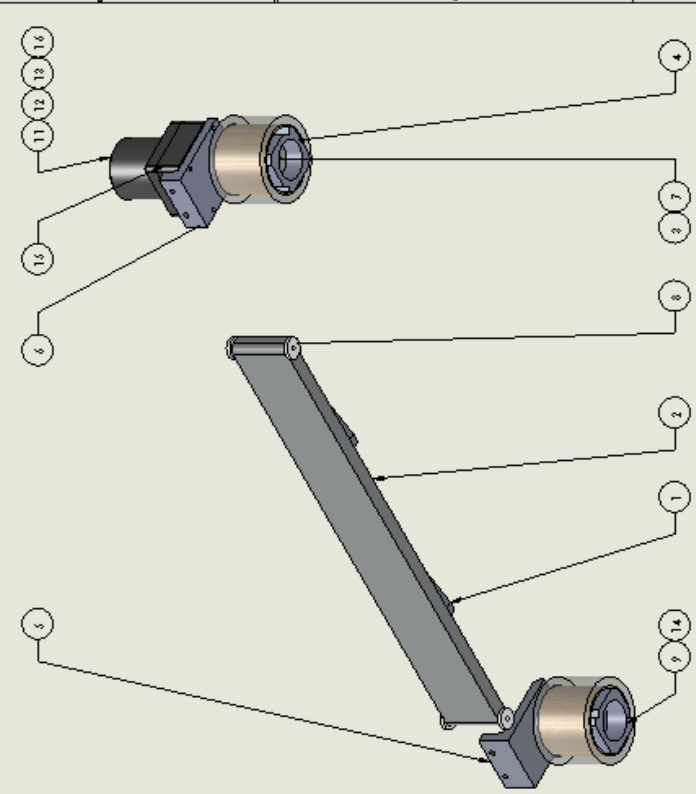
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3RD ANGLE PROJECTION

SHEET 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	9891-01-001	TAPE PLATE MOUNT	2
2	9891-00-002	TAPE RUN BAR	1
3	9670-01-007	ROLLER POST CAP	1
4	9670-01-011	SPool	1
5	9670-01-014	ANGLE BRACKET-TAPE ROLLER	1
6	9670-01-018	ANGLE BRACKET-TAPE MOTOR COUPLING-MOTOR/D RUMH	1
7	9670-01-019	TAPE GUIDE	4
8	7725-02-005	Tape Drum Assembly (ø 1/2" Tape)	1
10	501-20-032	SocketHead Cap Screw, M6 X 70	4
11	222-05-009	Receptacle, Connector (ø 1/2") Contact	1
12	222-05-044	Clamp, Straps (Cbl Shell) ø 3/8" (ø 1/2")	1
13	222-05-052	Contact Pin, Males	3
14	860-01-021	M18 X 1 NUT	1
15	401-07-050	Gearbox, Ac	1
16	401-07-010	Motor, Ac	1
17	9891-00-100	STOP ASSEMBLY	1
18	7725-02-012	FLAG BAR	1

NOTE: ITEM #2 17 & 18 NOT DISPLAYED

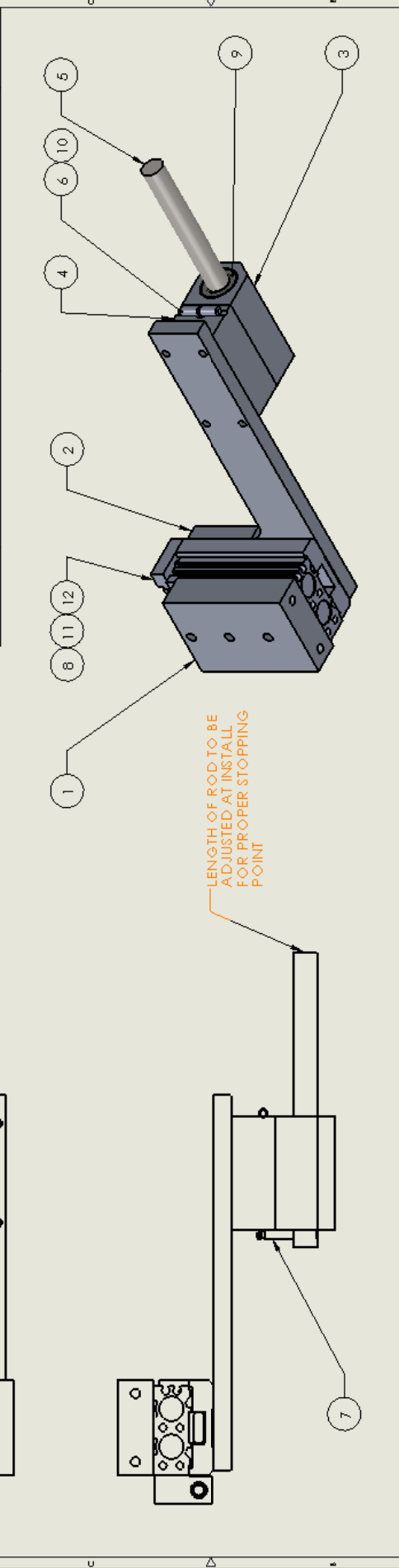
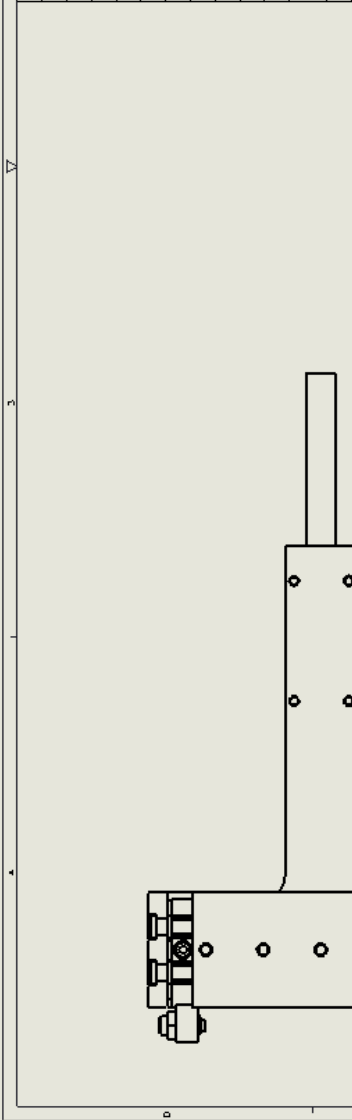


MATERIAL		PER BOH	
FINISH			
DIMENSIONS IN INCHES (MM)			
TOLERANCES UNLESS SPECIFIED			
FRACTIONS	DECIMALS	ANGLES	DIAMETERS
1/16, 1/8, 3/16, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8	.015, .031, .062, .125, .187, .375, .750	Degrees	1/16, 1/8, 3/16, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8
INITIAL RELEASE		DATE	BY
A		1/2/14	PSB
REVISIONS			
REV	DATE	BY	DESCRIPTION
A	1/2/14	PSB	HECKED SURFACES
BREAK CORNER 5-620 R-5140X			
300 ANGLE PROJECTION			

NOTES:

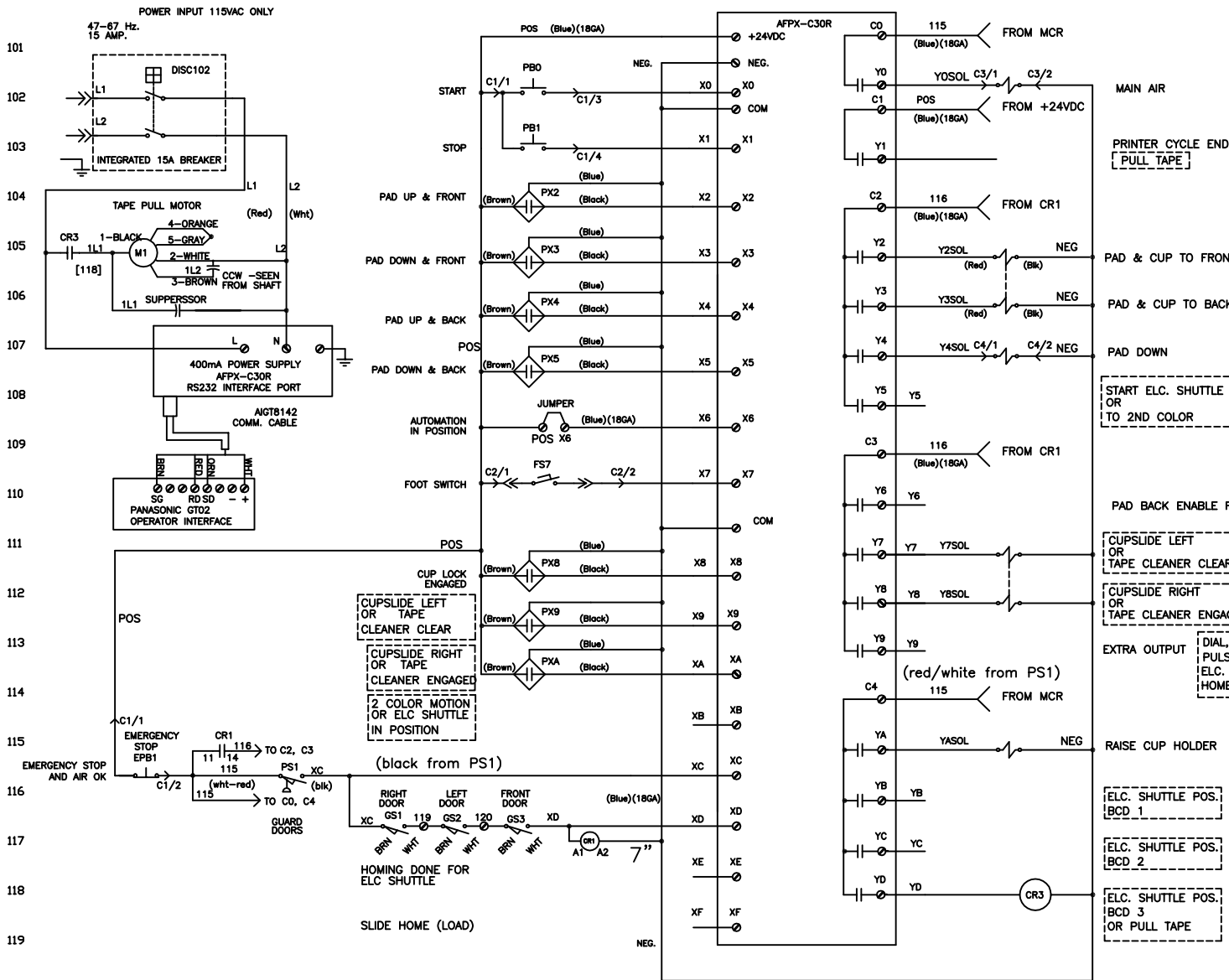
9891-01-000
PAGE 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	7725-02-006	MXSB MOUNT	1
2	7725-02-007	STOP ASSY MOUNT	1
3	7725-02-008	STOP ROD HOLDER	1
4	7725-02-009	SPRING BLOCK	1
5	7725-02-010	STOP ROD	1
6	7725-02-011	SPRING RETAINER PIN	1
7	7725-02-012	STOP ROD PIN	1
8	201-02-460	Slide Table, Air, 12mm Br, X40mm Stk	1
9	001-33-581	Linear Bearing 1/2" x 7/8" x 2-3/8"	1
10	104-00-322	Extension Spring Zinc-Plated Steel	1
11	202-00-775	Valve, 3-Position Double Solenoid, Blocking Center	1
12	207-00-257	VQ12351-5LO1	1



MATERIAL:		INTERPRET PER ANSI Y14.5M	
FINISH:		DESIGN BY: PSB	DATE: 12/12/13
DIMENSIONS IN INCHES [mm]		APPROVED BY:	RELEASE DATE:
TOLERANCES UNLESS SPECIFIED		SCALE: 1:2	QTY PER ASSEMBLY: 1
.0 ± .02 [0.5]		STOP ASSEMBLY	
.000 ± .005 [0.13]		DRAWING: 9891-00-100	
.0000 ± .0005 [0.013]		REV A B C	
ANGLES ± 1/2		SHEET 1 OF 1	
MACHINED SURFACES ^{AS SHOWN}			
BREAK CORNERS .020 [0.5] MAX			
INITIAL RELEASE	DATE		
PSB	12/12/13		
DESCRIPTION	BY		
STOP ASSEMBLY	PSB		

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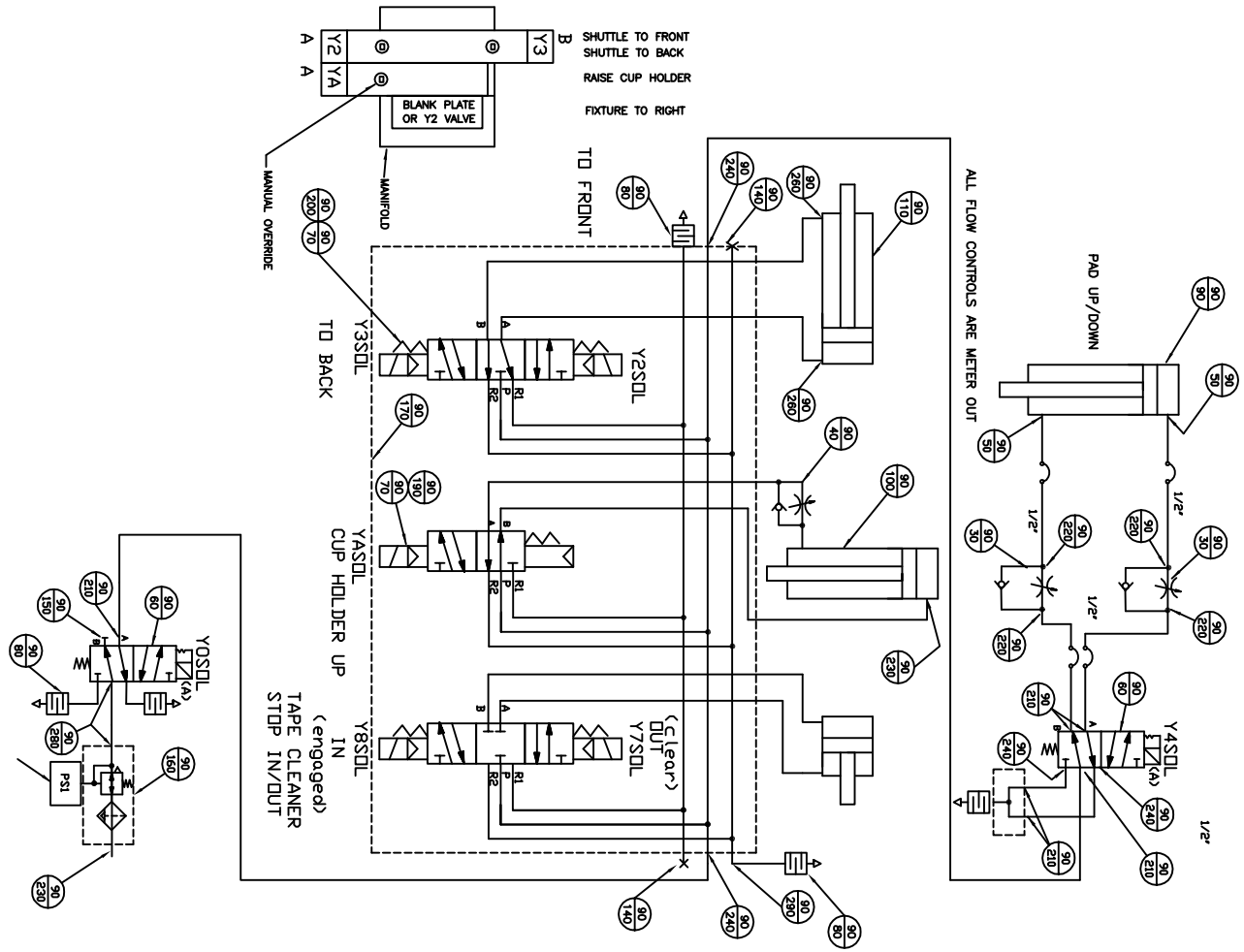
ORION W/ PANASONIC PLC AND HMI

SET PAD CLEAN TO "INSTALLED" AND "ON"
SEE 3.4.17 OF OPERATOR MANUAL
DO NOT USE THIS IF CUPSLIDE & PAD
CLEAR ARE BOTH INSTALLED! (PAD CLEANER
I/O SHIFTS TO SHUTTLE I/O)

I/O DESC. IN DASHED FRAME IS VALID
WHEN ACCESSORY IS SET TO "INSTALLED".

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DATE	6/28/2017
ENG	RS
REV	A
DESCRIPTION	Initial Release
DRAWING TITLE Electrical Schematic ORION V2 Pad Printer W/TAPE CLEANER	
ENGINEER Rich Schulz	
RELEASE DATE 6/28/2017	
CUSTOMER NAME STANDARD	
JOB NUMBER 9211, 9891 Combined	
SHEET NUMBER 01 OF 01	SCALE 1:1
DRAWING NUMBER 9891-80-001	



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REV	DESCRIPTION	ENG	DATE
A	Initial Release	RS	6/28/2017

DRAWING TITLE	Prepneumatic Diagram
DESIGNED BY	ORION VZ
ENGINEER	W/TAPE CLEANER
RELEASE DATE	6/28/2017
RELEASED BY	Rich Schulz
CUSTOMER NAME	STANDARD
JOB NUMBER	9211, 9891 Combined
SHEET NUMBER	01 OF 01
SCALE	1:1
DRAWING NUMBER	9891-90-001