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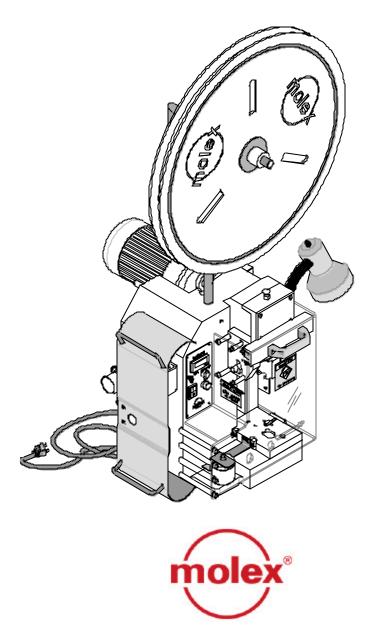
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Jameco Part Number 1444332



TM-3000 UNIVERSAL PRESS

Use with Molex FineAdjust or Mini-Mac Applicators
Instruction Manual

- Description
- Operation
- Maintenance

WARNING

NEVER USE THIS MACHINE WITHOUT THE GUARDS OR SAFETY DEVICES THAT ARE INTENDED TO PREVENT HANDS FROM

REMAINING IN THE DIE SPACE. RUNNING THIS MACHINE WITHOUT GUARDS, UNDER ANY CIRCUMSTANCES, CAN CAUSE

SERIOUS INJURY.

NEVER LIFT THIS PRESS WITHOUT THE AID OF MECHANICAL LIFTING DEVICES.

NEVER OPERATE, SERVICE, OR ADJUST THIS MACHINE OR INSTALL APPLICATOR DIES WITHOUT PROPER INSTRUCTION AND

WITHOUT FIRST READING AND UNDERSTANDING THE INSTRUCTIONS IN THIS MANUAL.

NEVER SERVICE THIS MACHINE WHILE IT IS CONNECTED TO ANY ELECTRICAL POWER SOURCE. DISCONNECT POWER BY

UNPLUGGING THE PRESS FROM ITS POWER SOURCE AND FROM THE COMPRESSED AIR SUPPLY.

NEVER INSTALL OR REMOVE APPLICATOR DIES WITH THE MOTOR RUNNING, OR AIR SUPPLY CONNECTED.

CAUTION THE TM-3000 PRESS IS SHIPPED FROM THE FACTORY AT A SHUT HEIGHT OF 135.80mm (5.346"). FAILURE TO HAND

CYCLE THE PRESS WHEN INSTALLING APPLICATORS CAN CAUSE SEVERE DAMAGE TO THE TOOLING AND/OR PRESS.

CAUTION MOLEX CRIMP SPECIFICATIONS ARE VALID ONLY WHEN USED WITH MOLEX TERMINALS, APPLICATORS AND TOOLING.

WORK SAFELY AT ALL TIMES

For Service, Contact Your **Local Molex Sales Office**

Molex Application Tooling Group

1150 E. Diehl Road Naperville, Illinois 60532 Tel: 630-969-4550 Fax: 630-505-0049

UNCONTROLLED COPY Order No 63801-7299 Release Date: 06-06-05 Page 2 of 29 Revision Date: 06-06-05

Table of Contents

SECTION

- General Description 1
- 2 Installation
- Setup Operation 3
- Maintenance and Troubleshooting 4
- Parts List, Assembly Drawings, Electrical Schematics 5

APPENDIX

Options Α

UNCONTROLLED COPY Page 3 of 29 Order No 63801-7299 Release Date: 06-06-05 Revision Date: 06-06-05

Revision: A

Section 1

General Description

- 1.1 Description
- 1.2 Features
- 1.3 Technical Specifications
- 1.4 Delivery Check
- 1.5 Tools

Order No 63801-7299 Revision: A

General Description

1.1 Description

The 63801-7200 (120V AC version) and the 63801-7300 (240V AC version) TM-3000 Universal Press is an economical, electrically-operated, single-cycle and split cycle direct drive press. It is designed to provide an effective method of applying a wide range of side-feed and rear-feed terminals to a prestripped discrete wire or cable. The TM-3000 is suited to midvolume semi-automatic operations.

Production flexibility is obtained through the use of interchangeable FineAdjust or Mini-Mac applicators and most Industry Standard Applicators...

The TM-3000 will complete one crimping cycle with each depression of the foot pedal and two depressions for split cycle. Safe operation is provided by an interlock switch that renders the press inoperative if the safety guard is opened or removed.

1.2 Features

- Utilizes both FineAdjust and Mini-Mac applicators side and rear feed, and most industry standard applicators
- Press is shipped set to Industry shut height of 135.80mm (5.346")
- Ideal for mid-volume, semi-automatic applications
- Meets O.S.H.A. safety standards is ANSI-Z535.2-2002 compliant
- Totally enclosed for operator safety, including a power interlock switch for the front guard
- Resettable counter for accurate batch counting
- Modular solid state controls with an easy plug in power cord and foot switch.

1.3 Technical Specifications

Dimensions with reel mounted

Height 1210.00mm (47.60") Width 648.00mm (25.50") Depth 559.00mm (22.00") Unpacked weight 100kg (220 lbs)

Power Requirements

Voltage: 63801-7200-120V AC 60 HZ Voltage: 63801-7300-240V AC 60 HZ

Pneumatic: Required for Air Feed Applicators only.

75 PSI min. (366 KGf/cm²)min. 1.0 SCFM (28.3 L/min. 1/4 NPT inlet 12.7mm (1/2") Supply pipe min.

Production Rate

2400 terminations per hour maximum, depending on operator skill and wire length.

Processing Capability

Up to 10 AWG (5.0mm²) of copper conductor in solid or stranded wire. (2 Ton Press)

Sound Level

Operator will be exposed to less than 85 DBA.

1.4 Delivery Check

After removing the packaging band, the top and sides of the box should lift off easily. The following items are included in this package:

	Quantity
Main Press Body	1
Reel Support Assembly	1
"T" wrench for manual cycling	1
Carton Contents	<u>Quantity</u>
69018-6237 PowerCord	
(for 63801-7200)	1
OR	
62500-1774 Power Cord 220V 10A.	
(for 63801-7300)	1
63801-7271 Foot Pedal	1
63800-7299-TM-3000 Instruction Manual	1

1.5 Tools

The following tools are recommended for setup and adjustments to the applicator in this press

- Metric hex wrench set
- ✓ Small standard screwdriver
- ✓ Adjustable wrench
- ✓ Needle nose pliers
- ✓ Crimp micrometer
- ✓ Eve loupe (10x)
- ✓ Wire stripper/cutter
- English hex wrench set for some non-metric applicators

Order No 63801-7299 Release Date: 06-06-05 **UNCONTROLLED COPY** Page 5 of 29 Revision: A Revision Date: 06-06-05

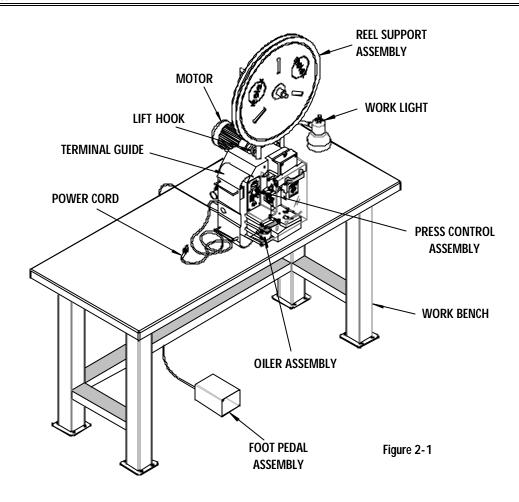
Section 2

Installation

2. I	Lifting/Mounting

- 2.2 Reel Support
- 2.3 Foot Pedal and Power Connection
- 2.4 Pneumatic Supply Hook-up
- 2.5 Terminal Feed Guide
- 2.6 Function Test
- 2.7 Safety and Work Area Check

Order No 63801-7299 Revision: A



Lifting/Mounting

WARNING: The TM-3000 Press weighs over 100 kg (220 lbs); it should not attempt to be lifted by one individual. Mechanical lifting devices should be used. A person lifting the press can sustain severe back or other injuries.

A lifting hook is provided on the top of the press. A heavy-duty chain, rope, cable, or belt can be used with loops, links, or rings on each end that can securely attach to the lifting hooks. An electric, hydraulic, or mechanical crane should be used to lift the press. Lift the press up approximately 12.00mm (.50") and verify that the press is well balanced. Upon verification, the press can be lifted onto a sturdy workbench. Access to the back of the machine is required for manual cycling. A wooden bench that is a minimum of 25.00mm (1.00") thick will offer quiet vibration-free operation. For thinner or sheet metal tops, the TM-3000 can be attached to the table with two 12mm bolts. Bolts are not supplied by Molex.

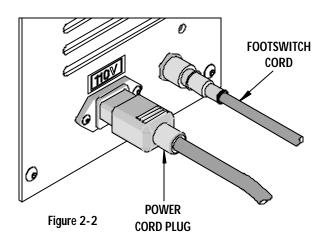
2.2 **Reel Support**

Install the reel support in the hole located on the top of machine frame. For rear feed, rotate the reel support as required. See Figure 2-3. Loosen the M10 set screw that holds the reel support. Pull up from the hole and rotate for the proper feeding orientation. Then slide down back into the hole and tighten the M10 set screw.

2.3 **Foot Pedal and Power Connection**

Connect the 3-pin plug for the foot pedal in the rear of the press control assembly. Turn the locking ring clockwise until tight. Connect the power cord plug to the socket in the back of the control assembly. Use a grounded electrical outlet as the power source. See Figure 2-2.

UNCONTROLLED COPY Release Date: 06-06-05 Page 7 of 29 Revision Date: 06-06-05



2.4 Pneumatic Supply Hook-Up

A compressed air supply is required if air feed or other air powered applicators will be used. The TM3000 press comes equipped with an air supply system, which consists of filter, regulator, lubricator and a valve to actuate the air feeds at the proper time in the press cycle.

Due to the considerable types of air connection and quick connect fittings available; Molex only supplies the TM3000 press with a 1/4 NPT female threaded fitting. The customer may attach whatever type of air connections that are commonly used in their plant to this port.

The minimum flexible tube size used to connect the press should be 8mm or 5/16" to assure adequate flow rate.

A filter-regulator-lubricator unit is supplied to properly condition the incoming air. The filter will remove particulate and moisture from the air that can damage or reduce the life of cylinders and valves. This filter and bowl should be serviced on a regular schedule. (See section 4.1) The filter has an automatic drain at the bottom of the bowl that will automatically open and expel fluid when the bowl is getting full. It is recommended that, a 6mm or 1/4" flexible tube, be attached to the drain hose barb and run to a container if the air system contains excessive moisture.

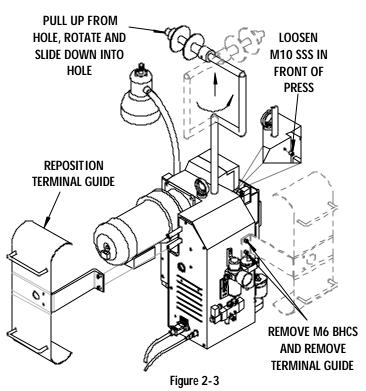
The regulator adjusts the pressure of the incoming air to what the applicators require usually 60-80 PSI (refer to the applicator manual for recommended pressures.) Adjustment is accomplished by pulling up on the knob, rotating it until the gauge indicates the desired pressure, then pushing it down to lock the setting.

A lubricator is supplied for those applicator air feeds that need lubrication. Molex air-feed applicators do not require lubrication. The lubricator is shipped without lubricant in it. To use, fill the lubricator (make sure the main air supply is disconnected or that the slide valve provided is in the off position before adding lubricant) through the fill plug on the top of the unit, with a high quality SAE 10 W oil. The lubricator has a graduated dial on top, turn the dial to the 1 or 2 setting.

Caution: Do not over lubricate. Only a very small amount of lubricant is required to assure smooth operation. Excess lubricant is exhausted to the atmosphere.

If lubrication is not required set the dial to 0 to turn off the lubricator.

2.5 Terminal Feed Guide



food applications the

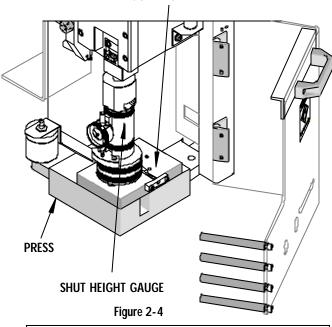
Depending on side or rear-feed applications, the terminal guide plate and bracket must be repositioned. The TM-3000 press is set for side-feed applicators when shipped from the factory. When rear-feed applicators are used, the two M6 BHCS from the terminal guide-mounting bracket are to be removed. See Figure 2-3. The guide bracket is rotated 180 degrees and the assembly is then mounted on the two standoffs in the rear of the press with the two M6 SHCS. See Figure 2-3.

Order No 63801-7299 Release Date: 06-06-05 **UNCONTROLLED COPY** Page 8 of 29 Revision: A Revision Date: 06-06-05

2.6 Function Test

When the TM-3000 is shipped from the factory, it is set to the industry shut height of 135.80 mm (5.346") with a calibrated load gauge. The press shut height gauge is spring loaded to give an accurate reading on the press shut height. See Figure 2-4. Molex recommends hand cycling the press each time an applicator is installed. See Section 3-3.

PRESS QUICK CHANGE MOUNTING PLATE



CAUTION: Always manually cycle the press before restoring power to the machine.

2.6.1 Verification of Press Shut Height

DXX DXX IS THE SHUT HEIGHT OF 135.80MM (6.348 INCH)

This press comes factory set at an Industry Standard shut height of 135.80mm (5.346"). A label is attached to the front of each press indicating the factory settings. This press has an adjustable shut height, see Section 3.4.3 for crimp height adjustment. Always return the press to the factory setting on the label before installing applicators to avoid tooling damage. Check the factory setting periodically with a calibrated shut height gage.

Shut height gauges may be purchased from: Artos Eng. 602-581-0070 Komax Corp. 847-537-6640

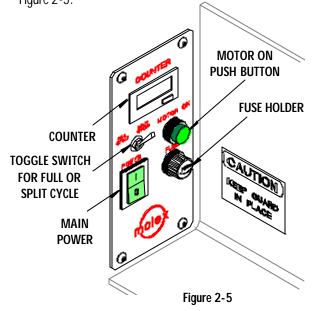
The gauges should come with instructions for use and calibration.

2.7 Safety and Work Area Check

Check that the crimping position is ergonomic for the operator's size. A bench height of 762.00 to 813.00mm (30.00 to 32.00") will provide operator comfort, and allows both feet to rest on the floor. The foot pedal should be placed in a comfortable position. Check that the press position is located approximately 150.00mm (6.00") from the edge of the bench. A chair or stool with adjustable height and backrest should be provided for maximum comfort and back support for the operator. See Figure 2-5 for the control panel.

CAUTION: Molex recommends that the operator and observers wear eye protection when the press is in operation or being serviced.

The fuse is located on the control panel. To replace the fuse (10AMP on 110 V models and 5AMP on 220V models), turn the holder in the direction as shown. Turn clockwise to secure holder in place when replaced. See Figure 2-5.



Order No 63801-7299 Release Date: 06-06-05 **UNCONTROLLED COPY** Page 9 of 29 Revision: A Revision Date: 06-06-05

Section 3

Setup and Operation

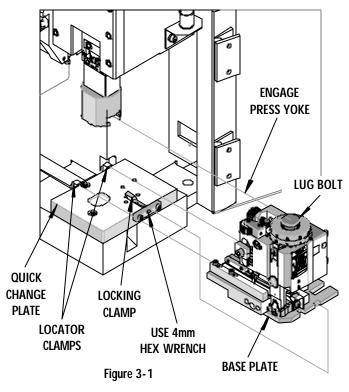
- 3.1 Applicator Installation
- 3.2 Air Feed Applicator Installation
- 3.3 Manually Cycling the Press
- 3.4 Operation

Order No 63801-7299 Release Date: 06-06-05 **UNCONTROLLED COPY** Page 10 of 29 Revision: A Revision Date: 06-06-05

3.1 Applicator Installation

Power down the press by turning off the "ON" switch located on the control panel.

Note: Once the press guard is open the guard interlock switch will disconnect power to the motor.



Steps

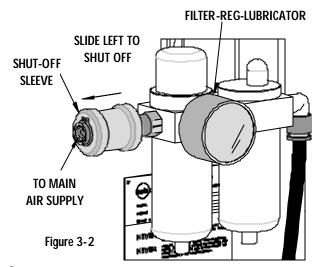
- 1. Swing the press guard open.
- 2. Verify that the applicator is correctly tooled for the terminal being used. (Reference specification sheets supplied with the applicator).
- Clean the press quick change mounting plate of scrap or chips that may interfere with the applicator installation.
- 4. Using a 4mm hex wrench, turn the M5 SHCS clockwise until the locking clamp is fully opened.
- 5. Locate the applicator lug bolt in the press yoke. See Figure 3-1.
- 6. Align the applicator base plate slots with the locator clamps on the press quick change plate.
- 7. To lock applicator, turn M5 SHCS counter clockwise until tight.
- 8. Confirm that the applicator is secured properly.

3.2 Air Feed Applicator Installation

Power down the press by turning off the "ON" switch, located on the control panel.

Note: Once the press guard is open the guard interlock switch will disconnect power to the motor.

Warning: When using air feed applicators, always use the slide valve supplied to shut-off and vent air pressure to the air feed before servicing. The guard interlock switch **DOES NOT** remove air pressure. If an air feed is jammed and air pressure is not removed before servicing, the feed could move unexpectedly and cause injury.

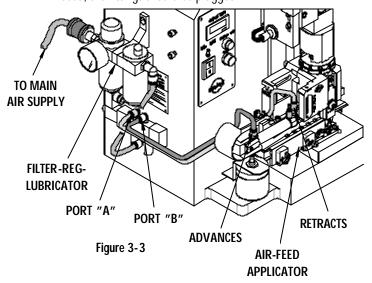


Steps

- 1. Swing the press guard open.
- 2. Verify that the applicator is correctly tooled for the terminal being used. (Reference specification sheets supplied with the applicator).
- 3. Clean the press quick change mounting plate of scrap or chips that may interfere with the applicator installation.
- 4. Using a 4mm hex wrench, turn the M5 SHCS clockwise until the locking clamp is fully opened.
- 5. Locate the applicator lug bolt in the press yoke. See Figure 3-1.
- 6. Align the applicator base plate slots with the locator clamps on the press quick change mounting plate.
- 7. To lock applicator, turn M5 SHCS counter clockwise until tight.
- 8. Confirm that the applicator is secured properly.
- 9. Disconnect the air supply from the filter-regulatorlubricator supplied with the press, by sliding the shutoff valve sleeve to the left, as shown in Figure 3-2. Remove

Order No 63801-7299 Release Date: 06-06-05 **UNCONTROLLED COPY** Page 11 of 29 Revision: A Revision Date: 06-06-05

the plugs from the fittings on the air valve. Do not discard the plugs; when the air applicator is not being used, the fittings should be plugged.



Note: When not using an air feed applicator always shutoff the air supply to the filter-regulator-lubricator by sliding the shutoff valve sleeve to the left, the opposite direction of the airflow, as shown in Figure 3-2.

Note: Some applicators feed terminals in the retracted position, for those air tubes must be reversed. In addition, some applicators are air advance and spring return, on these applicators one port will need to be plugged.

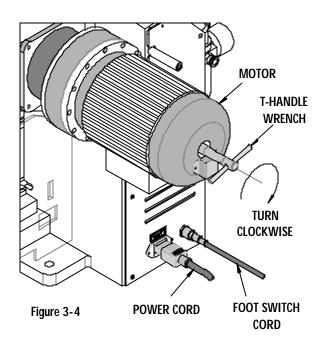
- 10. Insert the "A" port of the air valve with the tube that retracts the feed mechanism of the applicator. See Figure 3-3.
- 11. Insert the "B" port of the air valve with the tube that advances the feed mechanism of the applicator. See Figure 3-3.
- 12. Connect the main air supply to the filter reg-lubricator. (Custumer supplied fitting)
- 13. Adjust the regulator to 75-80 PSI (366-390 KGf/cm²).
- 14. Check that the tubing for the applicator is properly connected by dry cycling the press and observing the feed motion.

3.3. Manually Cycling the Press

Power down the press by turning off the "ON" switch located on the control panel.

Note: Once the press guard is open the guard interlock switch will disconnect power to the motor.

Hand cycling the press is necessary to confirm correct tool alignment and terminal feed adjustment. It also gives the setup person the ability to step through the press cycle manually.



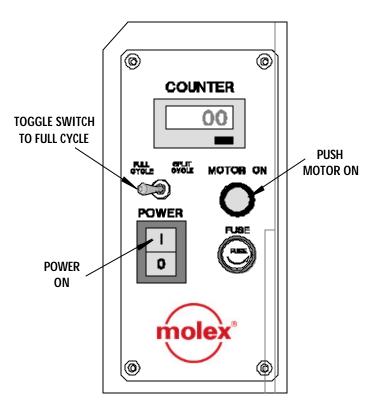


Figure 3-5

Order No 63801-7299 Release Date: 06-06-05 Revision: A Revision Date: 06-06-05

Steps

- 1. Insert the 8mm square socket T-handle wrench through the access hole in the center of the rear cover on the motor and locate it in the shaft motor. See Figure 3-4.
- 2. Rotate the wrench clockwise. This turns the motor and moves the ram down and up.
- 3. Always return the press back to top dead center insuring that the ram is in the start up position.
- 4. Remove the T-handle wrench.

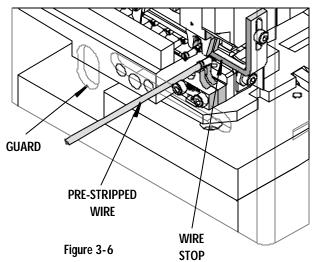
NOTE: When the T-handle is put into the motor shaft the motor turns off automatically.

3.4. Operation

3.4.1 Full Cycle Operation

Caution: Make sure the press guard is in position and all setup procedures are followed. Follow the safety and work area instructions.

Steps:



- 1. Push the toggle switch on the control panel to "Full Cycle". See Figure 3-5.
- 2. Turn the "Power " switch on, the power indicator light will light up.
- 3. Press the "Motor On" push button, the motor indicator light will light up. After a 5 second delay the press will be ready to cycle.
- 4. Place the prestripped wire through the slot in the press guard and push until it contacts the wire stop. See Figure 3-6.
- 5. Press the foot pedal down once. Use a sweeping motion to the right with the crimped wire and remove.

- 6. Check the crimped wire and confirm that it meets the applicator specifications and visual inspection.
- 7. Repeat steps 4 and 5 for the next crimp.

3.4.2 Split Cycle Operation

Desription:

The split cycle is used mostly for closed barrel terminals. This makes it easier to locate the terminal before crimping the wire. The punch/ram will close partially to assist in locating the terminal for the termination. Then the wire can be placed into the terminal and be terminated. To setup the machine for split cycle push the toggle switch on the control panel to "Split Cycle". See Figure 3-5.

Steps:

- 1. Depress the foot switch once, the ram will lower partially, positioning the terminal for termination.
- 2. Place the prestripped wire into the terminal.
- 3. Depress the foot switch a second time. The ram will complete its downward stroke and return to the top position to complete the cycle of terminating the crimp.

Caution: Make sure the press guard is in position and all setup procedures are followed. Follow the safety and work area instructions.

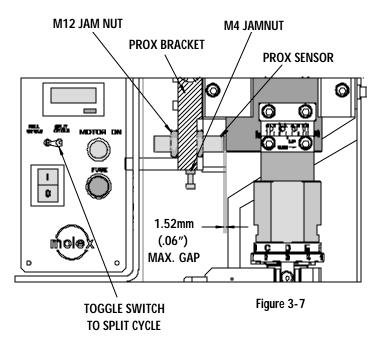
Split Cycle Ram Adjustment

When setting up an applicator for split cycle operation it may be necessary to adjust the ram for a partially closed position (1st position), so the terminal will be captivated in the punch and not terminated. For adjustment, the prox sensor located on the left side of the ram cover, needs to be adjusted. See the following steps:

Steps:

- 1. Depress the foot switch once, with the terminals in the applicator. See where the punch is located in the 1st position of the cycle.
- 2. If the punch is too high and does not center the terminal so that the prestripped wire can be inserted in the closed barrel or the punch is too low partially crimping the terminal, the prox sensor needs to be adjusted.

- 3. Open the press guard.
- 4. Loosen the two M12 jam nuts on the split cycle prox, located on both sides of the prox bracket. Then loosen the M4 jam nut holding the M4 X 25 SHCS. Turn the screw clockwise to raise the prox or counter-clockwise to lower the prox. See Figure 3-7. Raise the prox if the punch is partially crimping the terminal; or lower the prox if the ram is not closing far enough and not centering the terminal punch.



- 5. Retighten the M4 SHCS and the (2)M12 jam nuts positioning the prox for the 1st position of the split cycle. See Figure 3-7.
- 6. Close the press guard.
- 7. Repeat step 1 to check for the correct position of the ram. (Be sure Ram is at Top-Dead-Center first.)

Note: The gap between the prox and the ram should be 1.52mm(.06") Max. See Figure 3-7.

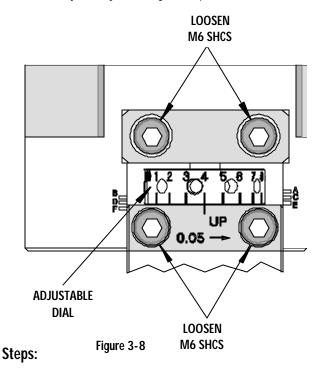
Caution: Always return the ram to the top dead center position or start position of the cycle before recycling the press. This is done by manually cycling the press. See section 3.2.

3.4.3 **Crimp Adjustment**

See Section 2.6.1 for Industry standard shut height.

Crimp Adjustment Full and Split Cycle

If crimp adjustment is required and cannot be made by the cam adjustment on the applicator, the fine adjustment dial on the press ram can be adjusted by following the steps below.



- 1. Open the press guard.
- 2. Loosen the four M6 SHCSs on the front of the press.
- 3. Rotate the adjustment dial to the right to raise crimp height or to the left to decrease. Dial indicator lines represent increments of .05mm (.002"). See Figure 3-8.
- 4. When adjustment is complete, retighten the four M6 SHCSs.
- 5. Close the guard.
- 6. Place a prestripped wire into the terminal and terminate under power. Examine the quality of the crimp.
- 7. Repeat steps 1 thru 6 if the desired crimp is not achieved.

Use caution adjusting the ram downward. Over adjustment in this direction may cause tooling damage or breakage.

Always return the adjustment to the factory setting before installing another applicator, or recalibrating shut height. See Section 2.6.1.

Order No 63801-7299 Release Date: 06-06-05 **UNCONTROLLED COPY** Page 14 of 29 Revision: A Revision Date: 06-06-05

Section 4

- 4.1 Maintenance
- 4.2 Oiler
- 4.3 Troubleshooting

Order No 63801-7299 Revision: A

4.1 Maintenance

Power down the press by pressing the **power** button to off "O" located on the control panel.

The TM-3000 press requires very little maintenance.

For efficient operation the TM-3000 press should be cleaned daily with a soft bristle brush to remove any carrier strip debris and terminal plating dust from the tooling area.

Maintenance Schedule

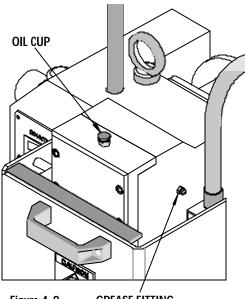


Figure 4-8 GREASE FITTING

The following is offered as a general guideline for maintenance. Tool life can be increased with good maintenance practices or decrease with lack of maintenance.

Item	Frequency Cycles	Frequency Time	Materials
Air Filter	100,000	Weekly	Clean bowl and sintered filter with denatured alcohol
Air Lubricator	100,000	Weekly	SAE 10W oil. Check and refill if used
Ram	25,000	Daily	SAE 10W oil Oil Cup (Top of ram)
Main Bearing	25,000	Daily	Grease fitting right side of Press bearing lube
Cleaning	25,000	Daily	Use soft bristle brush on Applicator mounting plate

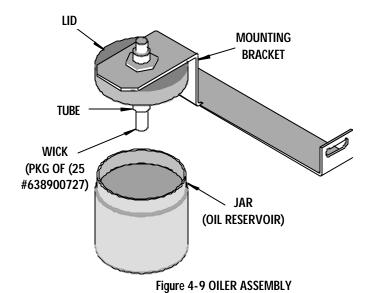
4.2. Oiler

Description

The wick action oiler is included with the TM-3000 Press. The oiler applies a thin coat of lubricant to the terminals, which helps with feeding and better release from termination punches. The oiler is primarily used for terminals with gold plating. To avoid contamination when shipped and during setup, the oiler is shipped from the factory with no lubricant oil. The oiler should only be used on applicators that require lubrication for smooth trouble-free operation.

Oiler Position

Adjust the position of the oiler unit using the mounting screw that attaches the oiler to the quick change mounting plate. Simply loosen the screw, slide the unit to the desired position, and tighten the screw. The unit can be removed and placed on the rear side of the quick change mounting plate for rearfeed applications.



Oiler Wick

Adjust the height of the oiler wick by pulling up or pushing down on the wick to the appropriate height. The wick can be moved using pliers or simply grab it with your fingers.

Filling the Reservoir

While firmly holding the lid, screw the jar (oil reservoir) counter clockwise until it is removed. Fill the jar with the desired lubricant oil and replace the lid.

Replacing the Wick

While firmly holding the lid, screw the jar oil reservoir) counter clockwise until it is removed. Feed a new wick up into the tube until it protrudes from the top end of the tube and replace the lid.

Package of 25 Wicks: Molex Order No: 63890-0727

Lubricant Oil

Recommended oil: Transdraw B-19

Vendor: Sure Lubricants Inc.

356 South Lively Boulevard Elk Grove Village, IL 60007-2010

Phone: 888-787-3582 Fax: 847-956-6655 E-mail: surelub@aol.com

Order No 63801-7299 Release Date: 06-06-05 **UNCONTROLLED COPY** Page 17 of 29 Revision: A Revision Date: 06-06-05

Troubleshooting 4.3

Symptom	Cause	Solution	
	 Power/Power cord failure 	Check supply	
	Loose connection	Refer to control schematic	
	 Guard interlock switch disengaged 	Re-Install guard	
	Fuse blown	Replace	
Motor will not run	 On/Off switch failure 	Replace	
Motor will not run	Motor failure	Replace	
	 T-wrench not removed from motor 	Removed T-wrench from motor	
	 Control PCB not working 	Replace	
	 Solid state relay not working 	Replace	
	 Control board for motor 	Repair or replace	
	 Guard interlock switch disengaged 	Re-Install guard	
Press will not cycle	Faulty footswitch	Check Connection. Repair or replace	
	Control PCB not working	Replace	
	Fuse blown	Replace	
Press partially cycles	 Toggle switch set to split cycle 	Reset the toggle switch to full cycle	

UNCONTROLLED COPY Page 18 of 29 Release Date: 06-06--05 Revision Date: 06-06-05

Section 5

- 5.1 Parts List
- 5.2 Assembly Drawings
- 5.3 Electrical and Pnuematic Schematics

Order No 63801-7299 Revision: A

5.1. Parts List

	TM-3000 Main Assembly (Figure 5-1 and 5-2)				
Item	Order No.	Ref. No.	Description	Qty	
1	63801-7200	FE-2TC (110VAC)	Universal Press (110VAC)	See Notes Below	
2	638017300	FE-2TC (220VAC)	Universal Press (220VAC)	See Notes Below	
3	63801-7201	A01	Press Frame	1	
4	63801-7202	A02	Ram	1	
5	63801-7203	A03	Follower	1	
6	63801-7204	A04	Front Cap	1	
7	63801-7205	A05	Press Face Plate	1	
8	63801-7206	A06	Switch-TDC	1	
9	63801-7207	F05	Flag Pickup	1	
10	63801-7208	A08	Access Cover	1	
11	63801-7209	F17	Oil Fill Cap	1	
12	63801-7210	A10	Flag-Position	1	
13	63801-7211	(M) B01	Split Cycle Prox	1	
14	63801-7212	(M) B03	Guard Handle	1	
15	63801-7213	B02	Yoke Adapter	1	
16	63801-7214	B03	Mounting Block Cover	1	
17	63801-7215	B04	Mounting Block	1	
18	63801-7216	(M) A01	Press Yoke	1	
19	63801-7217	B01	Press Shaft	1	
20	63801-7218	A021-R80	Shaft E-Ring	1	
21	63801-7219	A007-NA6911	Front Bearing	1	
22	63801-7280	(M) A13	Front Guard	1	
23	63801-7281	(M)	Rear Guard	1	
24	63801-7222	(M) A02	Quick Change Plate	1	
25	63801-7283	(M)	Side Guard	1	
26	63801-7224	(M)	Name Plate (Universal Press)	1	
27	63801-7284	(M)	Hinge Mounting Bracket	1	
28	63801-7285	(M)	Guard Hinge	2	
29	63801-7286	(M) A06	Guard Sensor Bracket	1	
30	63801-7287	(M)	Guard Bracket	1	
31	63801-7288	(M)	Stand-off, Guard Side	3	
32					
33	63801-7231	(M) E01	Control Panel	1	
34	63801-7232	F12	Eye Bolt	1	
35	63801-7233	CO4	Stand off	2	
36	63801-7234	CO1	Terminal Guide	1	
37	63801-7235	C03	Guide	2	
38	63801-7236	CO2	Terminal Guide Bracket	1	
39	63700-3845	(M)	Rotor Magnet	1	
40	63801-7237	F06	Press Lamp	1	
41	63801-7238	E05	Lamp Mounting Bracket	1	
42	63801-7239	(M) B02	Guard Switch Prox	1	
43	63801-7240	(M)	Oiler Assembly (Figure 5-3)	1	
44	63801-7241	F07A	* Bulb-110 VAC	1	
45	63801-7242	F07B	** Bulb-220 VAC	1	
46	63801-7243	(M) A03	Alignment Block	2	
47	63801-7244	(M) A04	Locking Clamp	1	

Order No 63801-7299 Release Date: 06-06-05 UNCONTROLLED COPY Page 20 of 29 Revision: A Revision Date: 06-06-05

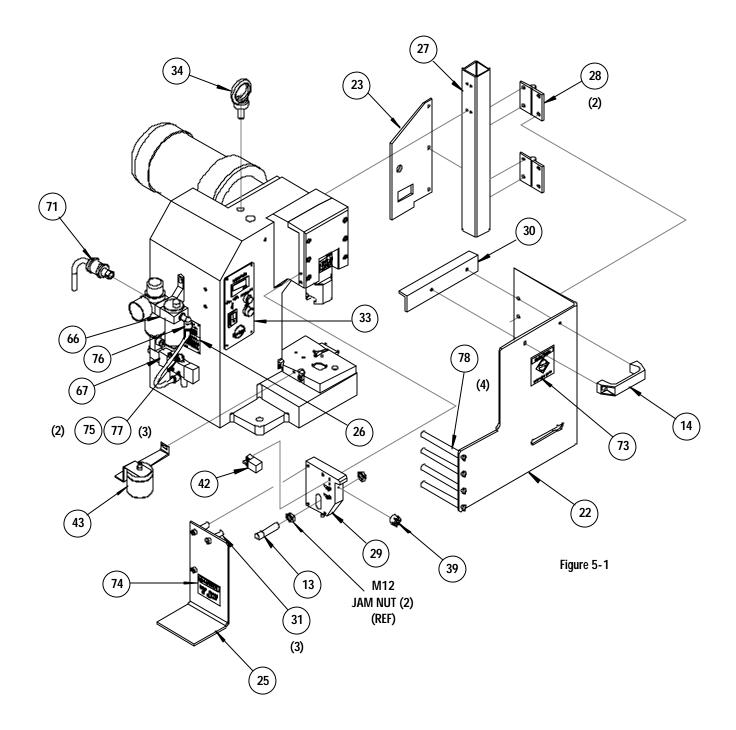
	TM-3000 Main Assembly (Figure 5-1 and 5-2)				
Item	Order No.	Ref. No.	Description	Qty	
48	63801-7245	(M) A05	Clamp Retainer	1	
49	63801-7246	A021-R68	E-Ring	2	
50	63801-7247	A007-A6909ZZ	Rear Bearing	2	
51	63801-7248	(M) F01	Motor with Gear Reducer	1	
52	63801-7249	A021-S45	Small E-Ring	1	
53	63801-7250	F02	* Motor Controller 110VAC	1	
54	63801-7251	F02A	** Motor Controller 220 VAC	1	
55	63801-7252	F03	Relay - Motor On	1	
56	63801-7253	F04	Transformer (18V)	1	
57	63801-7254	(M) E04	PCB-Machine	1	
58	63801-7256	E03	Sensor Flag -Motor	1	
59	63801-7257	F08	Motor Shutoff Prox	1	
60	63801-7258	E02	Prox Motor Shutoff Bracket	1	
61	63801-7259	A09	Rear Cover	1	
62	63801-7260	D01	Reel Support	1	
63	63801-7261	D02	Reel Boss	2	
64	63801-7262	D03	Reel Disc	2	
65	63801-7263	D04	Reel-Spring	1	
66	63801-7269	(M)	Filter-Regulator-Lubricator	1	
67	63801-7270	(M)	Air Valve-3 Way	1	
68	63801-7271	(M)	Foot switch with cord	1	
69	69018-6237		* Power Cord (110VAC) 20 AMP	1	
70	62500-1774		** Power Cord (220VAC) 10 AMP	1	
71	63801-7272	(M)	Slide Valve	1	
72	63801-7273	(M)	Label (Lightning Bolt) 1-1/2" Triangle	1	
73	63801-7274	(M)	Label (Eye-Glasses)	1	
74	63801-7275	(M)	Label (Caution)	2	
75	63801-7276	(M)	Plug (1/4" Tube)	2	
76	63801-7277	(M)	Elbow Male (1/4" Tube) for Filter-RegLubricator	1	
77	63801-7278	(M)	Elbow Male (1/4" Tube) for 3-Way Valve	3	
78	63801-7279	(M)	Terminal Guide Standoff	4	

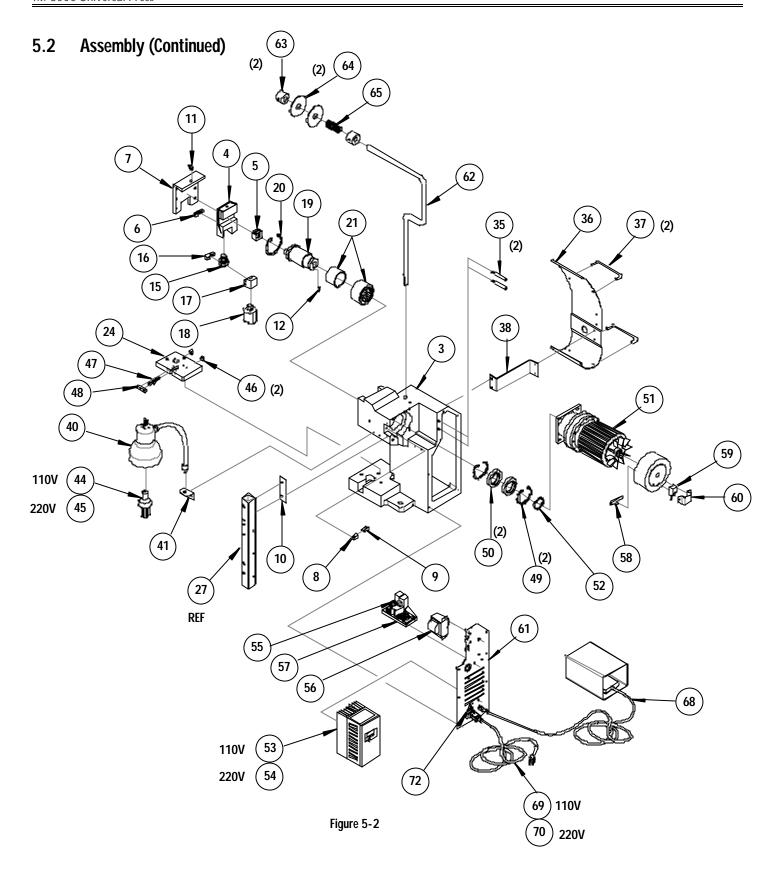
Note:

- 1. For 220VAC Machine use assembly no. 63801-7300
- 2. All parts for both 63801-7200 and 63801-7300 presses unless otherwise specified.
- 3. * Indicates parts for 63801-7200 (110VAC) Press only.
- 4. * * Indicates parts for 63801-7300 (220VAC) Press only.

Order No 63801-7299 Release Date: 06-06-05 **UNCONTROLLED COPY** Page 21 of 29 Revision: A Revision Date: 06-06-05

5.2. Assembly





Assembly (continued)

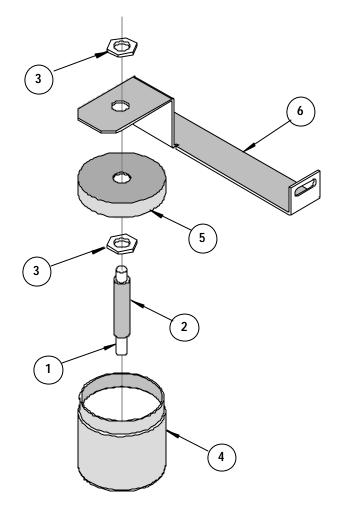
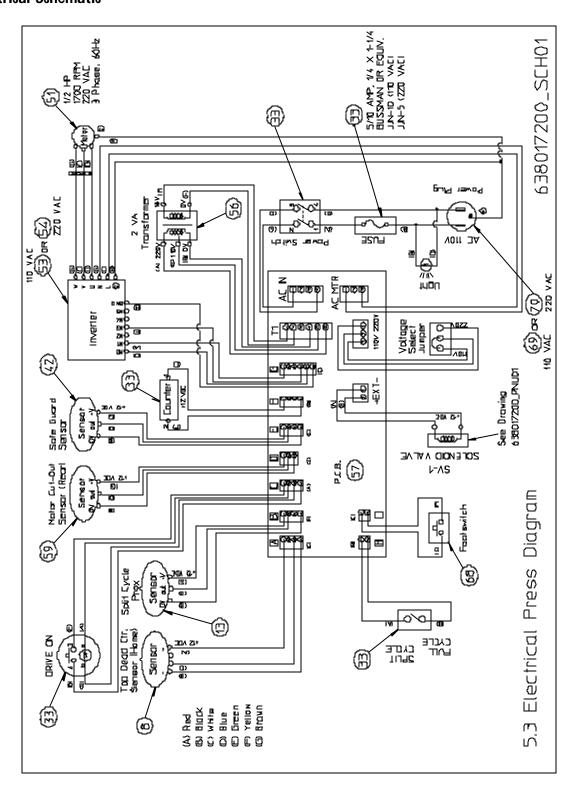


Figure 5-3

Oiler Assembly Item No. 41 (63801-7240)

Item	Description	Qty
1	Oiler Wick	1
2	Oiler Lamp Tube	1
3	Oiler Lamp Tube Nut	2
4	Wide Mouth Glass Jar	1
5	Oiler Glass Jar Lid	1
6	Oiler Bracket	1

5.3. Electrical Schematic



5.3. Pnuematic Schematic

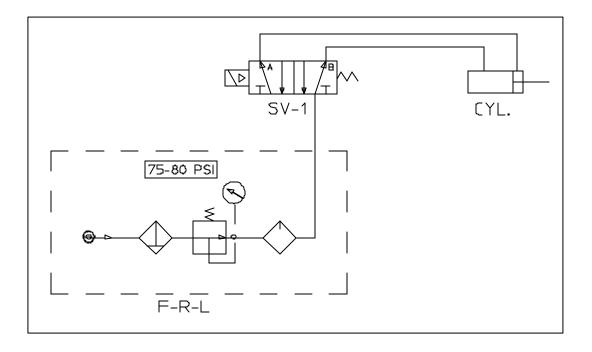
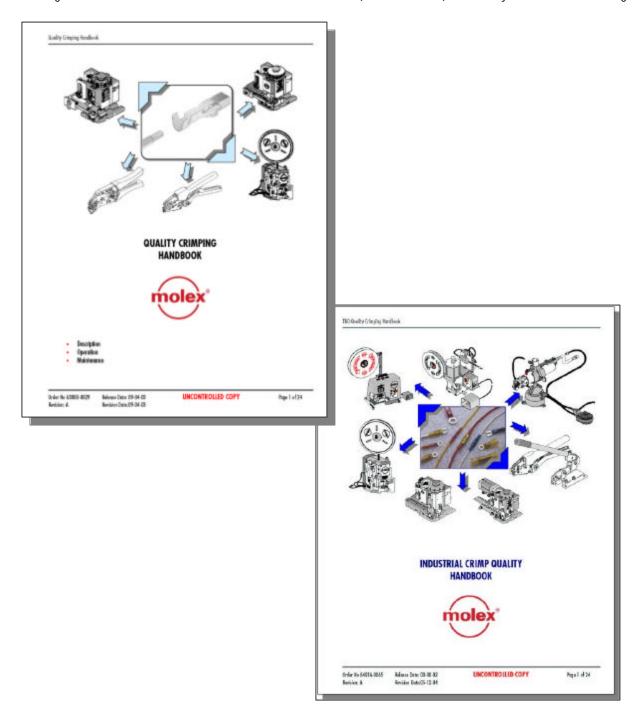


Figure 5-5

For more information use the Quality Crimping Handbook And Industrial Crimping Handbook

There is no charge for these books, which can be found on the Molex Website (www.molex.com) or contact you local Molex sales engineer



Order No 63801-7299 Release Date: 06-06-05 **UNCONTROLLED COPY** Page 27 of 29 Revision: A Revision Date: 06-06-05

APPENDIX A

OPTIONS

UNCONTROLLED COPY Page 28 of 29 Order No 63801-7299 Release Date: 06-06-05 Revision Date: 06-06-05



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Order No 63801-7299 Release Date: 06-06-05 **UNCONTROLLED COPY** Page 29 of 29 Revision: A Revision Date: 06-06-05