

JMD Manufacturing, Inc.

OWNER'S MANUAL

JMD's CC Series
Of Reciprocating
Imprinters

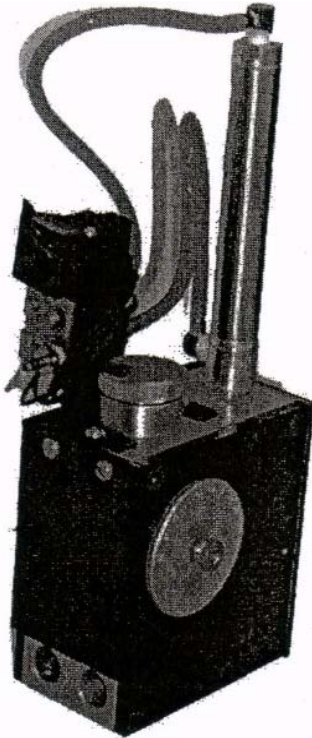
INSTALLATION

OPERATION

MAINTENANCE

Important: Please read owner's manual before installation and operation of these machines.

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New Design comes with a
Continuous Ink Feeder unit!

RECIPROCATING IMPRINTERS CC SERIES

- > Precise registration on any flat sided object.
- > Variety of imprint sizes available.
- > Easily disposable ink cartridges.
- > Fast drying inks.
- > Clear sharp impressions.
- > Speeds up to 100 imprints a minute.
- > May be mounted in any position.
- > All inks, parts and types in stock for fast delivery.

Air Electric Model

The AE Series Reciprocating Imprinter is a compact electro-pneumatic imprinting module that is ideal for installation on a capper, labeler, bagmaking, form-fill machine or other intermittent motion packaging equipment. It provides precise registration on cartons, caps, labels or any flat sided product, and is mechanically synchronized by the parent machine motion.

JMD PRODUCTS
ARE
USED IN
INDUSTRIES LIKE.

- Food
- Cosmetics.
- Soft Drinks.
- Pharmaceuticals.
- Auto Parts.
- Packaging.
- Electronics.
- Bottled water.
- and many others!

Bench Stand Model

The AE/B Series is a bench mount and includes adjustable stand, single pulse time control and a micro switch in an adjustable product guide in the base. It is a manual feed operation.

All models are available in one inch and two inch inchprint

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SECTION-A

SERIES CC RECIPROCATING IMPRINTERS

GENERAL INTRODUCTION:

Series CC Reciprocating Imprinter is a compact electro-pneumatic imprinting module operating on 25-60 psi air pressure, ideal for installation on a Capper, Labeler, Bag-making, Form-Fill-Seal machine or other intermittent motion packaging machinery. It provides imprinting with precise registration on Cartons, Caps, Labels or any Flat-sided product, and is mechanically synchronized by the parent machine motion. It consists of an air cylinder driven reciprocating printhead, which slides into the housing for inking, and out for imprinting.

It operates up to 80-120 imprints per minute, and can be mounted in any position convenient for installation. It can be operated as an automatic coding machine by mounting on F/F/S machine for coding on OIL, JUICE, CHIPS, MILK POWDER, MILK POUCHES etc.. Also, it can be operated manually with the help of a Bench-stand.

CC RECIPROCATING SERIES

CC Series has Models CC11, CC12. The printing area of CC11 is 1"X1", Model CC12 is 1"X2". All operating instructions in this manual pertain to these machines, as their operating characteristics are identical. These machines differ only in the printing area.

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SECTION-B

INSTALLATION (MOUNTING THE UNIT)

Selection of a mounting area for the CC Series Printer should not be difficult since the unit can be mounted in any position. However, the ideal position should be where the surface to be imprinted is momentarily stopped to permit a legible code to be placed on it.

There is a series of tapped holes as well as .625 reamed hole in the bottom guide plate spacer, for mounting the printer. A .625 round bar or flat plate may be used to do this. When using the round bar, use two 1/4-28 x 1/2" set screws per bar in the holes provided. In any case the unit must be positioned in such a way that the letters contact the surface to be imprinted squarely. Additionally, allow access to the dial side of the unit to permit the Image-on Ink Roller to be Meed.

SPEED CONTROLS

These speed control screws are available on Solenoid valve. Before finally securing the unit in place, make certain room is left for screwdriver adjustment of the two needle screws, which protrude from the body of the solenoid valve. Also, the manual override thumbscrew must not be blocked since it is used to hold the print head in the extended position. Now, slowly turn the two small "speed control" needle screws clockwise (CW) or counter-clockwise (CCW) until a smooth transition from extend to retract stroke is attained.

If the surface to be printed is indexing or moving too quickly for an imprint to be placed upon it, the speed of the stroke may be increased corresponding to this condition, but it is imperative that the extend and retract strokes still be held in "balance" with each other whatever the condition.

SECTION-B

MANUAL OVER-RIDE SWITCH

The second type of control furnished with the solenoid valve is a manual override switch located top-side of solenoid valve.

Use this screw to STOP the printhead in the extended position for changing the printhead. The printhead will always stop in the extended position regardless of the actuation of the microswitch/footswitch.

INSERTING COPY INTO TYPE HOLDER

A. To Remove Type Holder

With air supply on, press the manual over-ride switch to extend the printhead. The printhead will stay in the extended position as long as the switch is held. Remove the type holder, by sliding it out towards either side.

B. Inserting Type

The most commonly used type system is Baselock. This system consists of letter or stereos of tie knots or lobes, which are in turn held in place by a mat with an adhesive backing. The type is easily inserted or removed from the Baselock mat ribbing. When inserting the type, care should be taken to see that the lobes of the type are firmly seated and fully engaged onto the ribbing of the Baselock mat. When ordering characters remember that although it is made in several sizes (1.6 mm, 2.4mm, 3.2 mm) carefully consider their respective inking characteristics. Extremely small type may fill in with ink while very large type may not print completely if the surface is irregular or damaged.

CAUTION:

Make certain that all type sorts are in good condition and do not mix new type with worn type. Uneven and/or worn type will cause some characters to print heavier than others or miss imprinting altogether.

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SECTION - C

INKING SYSTEM

The CC Series employs JMD's Image-On Ink Rollers Inking System. The Image-On Ink Roller permits the use of fast drying solvent-based inks for non-porous surfaces. It is a circular shaped Ink Roller for maximum utilization of ink. It is made of a special polymer compound and rotates freely in the machine. Hence the ink is uniformly taken from the Ink Roller and in wastage is avoided as the entire surface of the Ink Roller is utilized. Also as the Ink Roller is freely rotating, wear & tear is uniform.

Printing pressure and inking pressure are adjustable on solenoid valve and Ink Roller dial respectively for precise control of imprint quality and sharpness of print.

The Ink Roller assembly is mounted on an eccentric shaft, which is located between the side plates of the machines. The Ink Rollers must be Inked with Ink before it is installed on the machine.

SECTION-C INK ROLLER

INKING PROCEDURE

1. Remove the Ink Roller from the machine.
2. Shake the ink in the bottle and fill pan to a maximum depth of 1/4" of JMD's Ink Ensure that the pan is entirely clean.
3. Immerse ink roller in ink to the end of the cap - no deeper. Leave until fully inked at least for one minute.
4. Rotate it one 180 degrees to ensure full absorption around its circumference.
5. Due to the weight of the absorbed ink at one portion, if you slightly try to rotate the Ink Roller, you will notice the Ink Roller will toggle.
6. In the immersed position rotate the Ink Roller till the ink is absorbed uniformly.
7. When the Ink Roller rotates smoothly by a gently push then the Ink Roller is uniformly inked and is ready to load in the machine.
8. Roll the Inked Ink Roller on a clean, absorbent tissue paper to remove excess surface ink.
9. **TO ENSURE CONTINUOUS OPERATION, DO NOT RE-INK INK ROLLER WHILE IT IS IN THE MACHINE.**
10. After charging the Ink Roller pour the residual ink into the bottle and clean the dish.

SECTION-C INSTALLING

THE UNIFORMLY INKED INKROLLER

To install the Ink Roller, remove the thumbnut at the center of the dial. Remove the Ink Roller shaft, install the Ink Roller on it and load the entire assembly in the machine. Note that the shaft portion of the dial is eccentric. When installing the Ink Roller, have the pressure dial set on "zero", aligning it with the dot on the side plate of the machine and secure the thumbscrew.

INK TO TYPE ADJUST

With air on, cycle the machine manually by momentarily depressing the micro-switch. While continually cycling the machine by hand, gradually turn the numbered dial clockwise (CW). Observe the face of the type. Securely tighten the thumbnut when the entire face of the type has been evenly inked. Make a note of the dial setting for future inking reference. Rotating the dial further clockwise (CW) will increase the pressure of the Ink Roller against the type.

CAUTION:

Never apply more pressure to the type than is required to just cover the face of the type with ink. Excessive ink and/or inking pressure will cause the type to fill in and will produce abnormal print and probable wear out of Ink Roller. This is especially so when using small type and/or fast drying inks.

Always use the proper JMD recommended ink, which has been specifically formulated to be compatible with CC Series Imprinter and the Ink Roller system.

Use a low drying ink whenever possible. This will extend the life of the Ink Roller and reduce frequency of re-inking. Never allow the Ink Roller to dry out. When the density of the imprint begins to fade or "cross-hatched" impression is noticed, it is time to re-ink.

SECTION-D

MAINTENANCE AND LUBRICATION

The guide tracks within the side plated have been coated with a special friction-resistant finish and normally do not require lubrication. Also, these machines are rust-proof

To get optimum results of CC Series Contact Coder, always use standard consumables recommended by JMD and follow proper operating instructions laid down in this manual.

For further clarifications or assistance, please call us at JMD at our toll free number 1-800/752-5563 or write to our email address at: support@jmdmfg.com

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SECTION-D

PRECAUTIONS TO BE TAKEN

1. Do not re-ink Ink Roller into machine when it is in operation,
 2. Do not remove Ink Roller when it is in operation. 3
- Do not use any lubrication or oil to the machine.
4. Adjust their pressure required for machine according to the coding requirement
 5. Always store ink in cool placed avoiding direct sunlight
 6. Do not mix solvent with ink, solvent is only meant for cleaning.
 7. To safeguard the Ink Roller life, alter continuous usage for 5-6 days:
 - Remove it form the machine and soak it in solvent bowl for 24 hrs.
 - Dry it for another 24 hours and re-ink and load it back onto the machine.
 8. Always store the Ink Roller in airtight plastic bag when not in use.
 9. For sharp & clean prints clean the letters with JMD's solvent

SECTION - E

SUPPLIES

S.No	Part Number	Description
I.. Ink Rollers -1"		
1	1001-CM2-C	Image-On Ink Roller -1"Fw/Dry
2	1001-CM2-A/B	Image-On Ink Roller -FfW/Pre-Inked
3	1001-FM2-C	Foam Ink Roller -1"Fw/Dry
4	1001-CM2-A/B	Foam Ink Roller -1"Fw/Pre-Inked
II.. Ink Rollers -2"		
1	1002-CM2-C	Image-On Ink Roller -2"Fw/Dry
2	1002-CM2-A/B	Image-On Ink Roller -2"Fw/Pre-Inked
3	1002-FM2-C	Foam Ink Roller -2"Fw/Dry
4	1002-FM2-A/B	Foam Ink Roller -2"Fw/Pre-Inked
III.. Rubber Type Fonts		
1	T-010	Box of Letters & Numbers -1/8"
2	T-012	Box of Letters & Numbers -3/16"
2	F-010	Box of Numbers Only -1/8"
4	F-012	Box of Numbers Only -3/16"
IV.. Coding Ink		
1	D-727	Non-absorbent; water resistant; black PDA approved.
2	D-767	Absorbent only; Kraft, Corrugated, Paper, Woods etc.
3	D-819	Non-absorbent; prints through moisture, aluminum, foil; soap resistant.
4	D-846	Non-absorbent materials; fastest drying ink; suitable for low temperature applications.
V.. Ink Feeding Unit		
1	RF14-Empty	4 Oz. Empty Bottle.
2	RF14-BK	4 Oz. Bottle with Black Ink
VI.. Cleaning Solvent		
1	D-700	Mild cleaning agent .
2	D-800	Strong cleaning agent.

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SECTION - F

TROUBLE SHOOTING

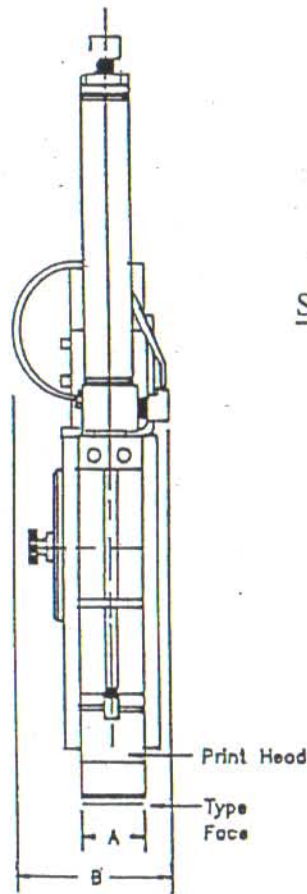
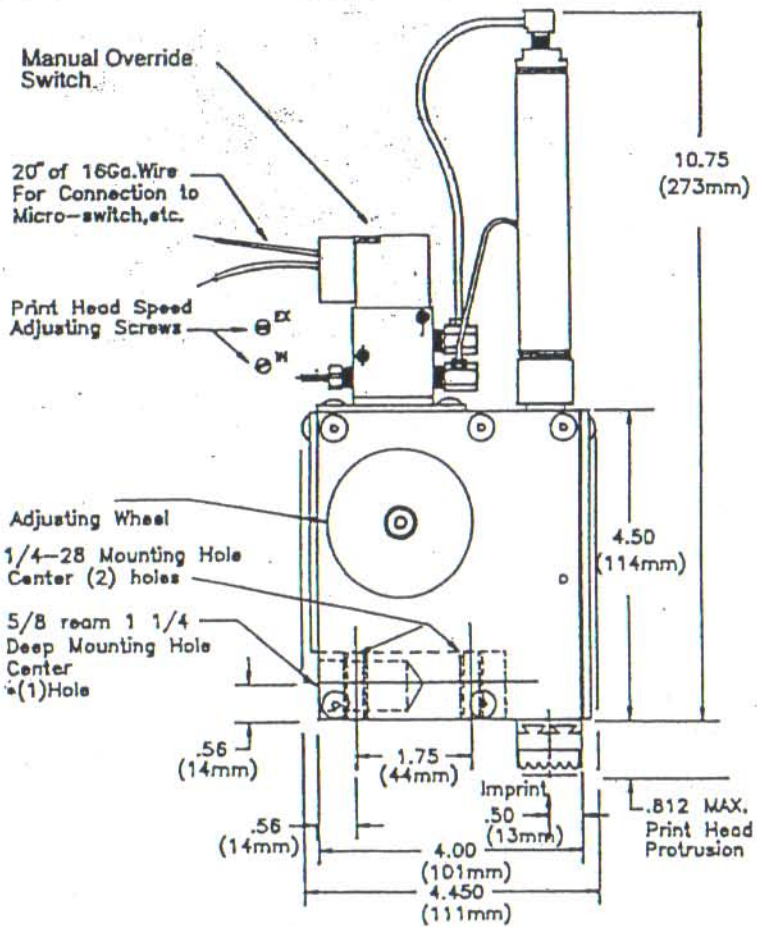
S.NO	Problem	Description	Solution
	Smeared Printing	Print smudges on the product.	The print head stays in touch with the product for a long time. The print head should retract before the product moves ahead. Reduce contact time. Air pressure may be too high. Items being marked may not be supported properly.
	Type Flying off	Rubber letters coming off the type-holder.	The print head coming down with great force. Decrease air pressure. Ink roller too close to type. Adjust by switching to lower number on dial. If possible, use type with more ribs. If possible, use print plates.
	Heavy Prints	Thick prints. Excessive Ink.	Ink roller too close to type. Adjust to lower number on dial. Use lower dial number with freshly inked roller. Never place Ink Feeder Bottle on a New or freshly Inked roller. May be the Ink selection is wrong. Variations in product being marked.
	Failure to print	No Print.	Ink roller needs re-inking. Ink roller not moving freely. Ink feeder bottle screwed tightly thus blocking the drive. Check for missing type. Adjust Ink roller contact/pressure with type may be too light. Adjust by moving the dial slowly to higher number. Type not touching the product. Adjust contact.

Inconsistent Print Quality	Prints not uniform.	<p>Make sure you're using JMD Inks with your machine.</p> <p>You have right kind of Ink roller for your application.</p> <p>Check the Air pressure and look for leakage or pressure drop.</p> <p>Look for variation in product being marked.</p> <p>Product being marked gets support and stays in place.</p> <p>Make sure you use proper rubber type.</p>
Partial Inking	<ul style="list-style-type: none"> • Some characters not getting the ink. • Not printing all lines uniformly. • Some characters are heavy while others are light. 	<p>Check our reference guide, to see if you have right number of letters per linear inch.</p> <p>See if the type is centered in the type holder.</p> <p>If you have two lines, make sure you keep them as close as possible.</p> <p>Individual numbers/ single sorts should be right next to each other.</p> <p>See how many characters can fit per linear inch. Don't compose message covering entire length of the type holder.</p>

SECTION -G

DETAILED PARTS LIST

Item Number	Part No	Quantity	Description
2.0	20349-01	1	Top Guide Plate Spacer
3.0	20353-01	1	Main Guide Plate
4.0	20354-01	1	Guide Plate
4.1	503JFA	10	#10-32 Flat Head Socket Screw
5.0	20355-01	1	Bottom Guide Plate Spacer
5.1	504JCA	1	#10-32 Socket Set Screw
5.2	60499-01	1	Air Cylinder
5.4	40654-01	1	Right Angle Fitting
6.0	20358-01	1	Clevis
6.1	20344-01	1	Hex Jam Nut
7.0	20346-01	1	Print Head Assembly
7.1	61472-01	1	Roller Pin
7.2	61484-01	1	Roller Pin
7.3	61484-01	1	Roller Pin
12.0	20360-01	1	Type Holder -1x1"
12.0	62551-01	1	Type Holder -1x2"
12.0	62552-01	1	Type Holder -1x4"
13.0	20366-01	1	Cover Plate
14.0	20367-01	1	Ink roller shaft and dial
14.1	1001-CM2-C	1	Ink roller -1"FW
14.1	1002-CM2-C	1	Ink roller -2"FW
14.2	20364-01	1	Ink roller shaft stud
14.3	625364)1	1	Brass Thumb Nut
15.0	20363-01	1	Toggle Pin
50.0	42331-01	1	Valve Mounting Plate
50.1	502JEA	2	#10-32 Button Head Socket Screw
50.2	42325-01	1	Solenoid Valve, 110 VAC
50.3	501DLA	2	#4-40 Socket Head Cap Screw
50.5	60730-01	1	Male Fitting
50.6	42377-01	2	6" x $\frac{1}{4}$ " Tubing
50.8	41387-01	2	Elbow Fitting
50.9	60639-01	2	Male Connector
60.0	20370-01	1	Front Print Head Guard
60.1	502JEA	2	#10-32 Button Head Socket Screw
62.0	20369-01	1	Rear Print Head Guard
62.1	502JEA	2	#10-32 Button Head Socket Screw



SHIPPING WEIGHTS

NET GROSS

5 lbs. 7 lbs.
(2.27 kg) (3.18 kg)

6 lbs. 8 lbs.
(2.72 kg) (3.63 kg)

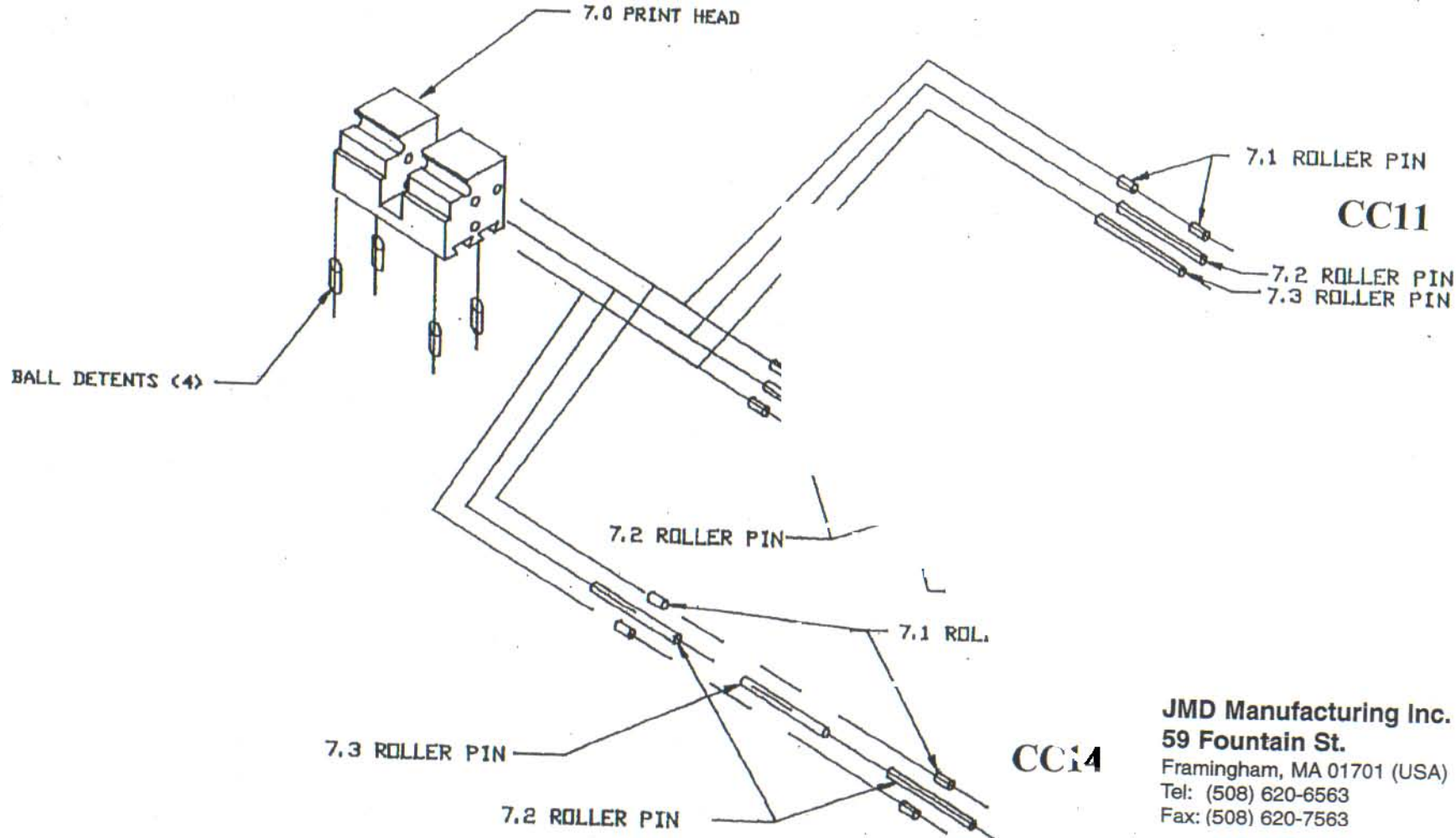
7 lbs. 9 lbs.
(3.18 kg) (4.09 kg)

X-CC11 AE

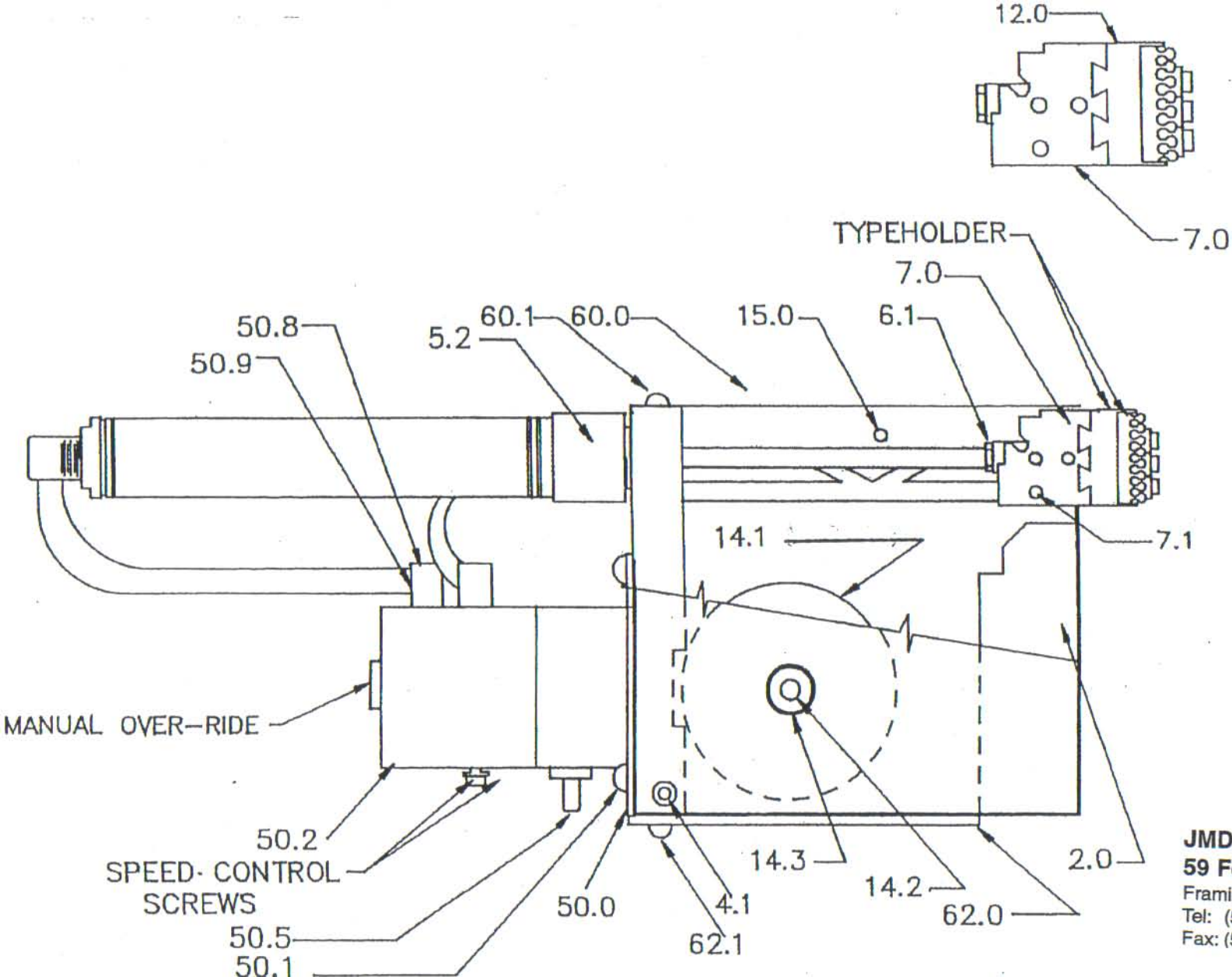
X-CC12 AE

X-CC24 AE

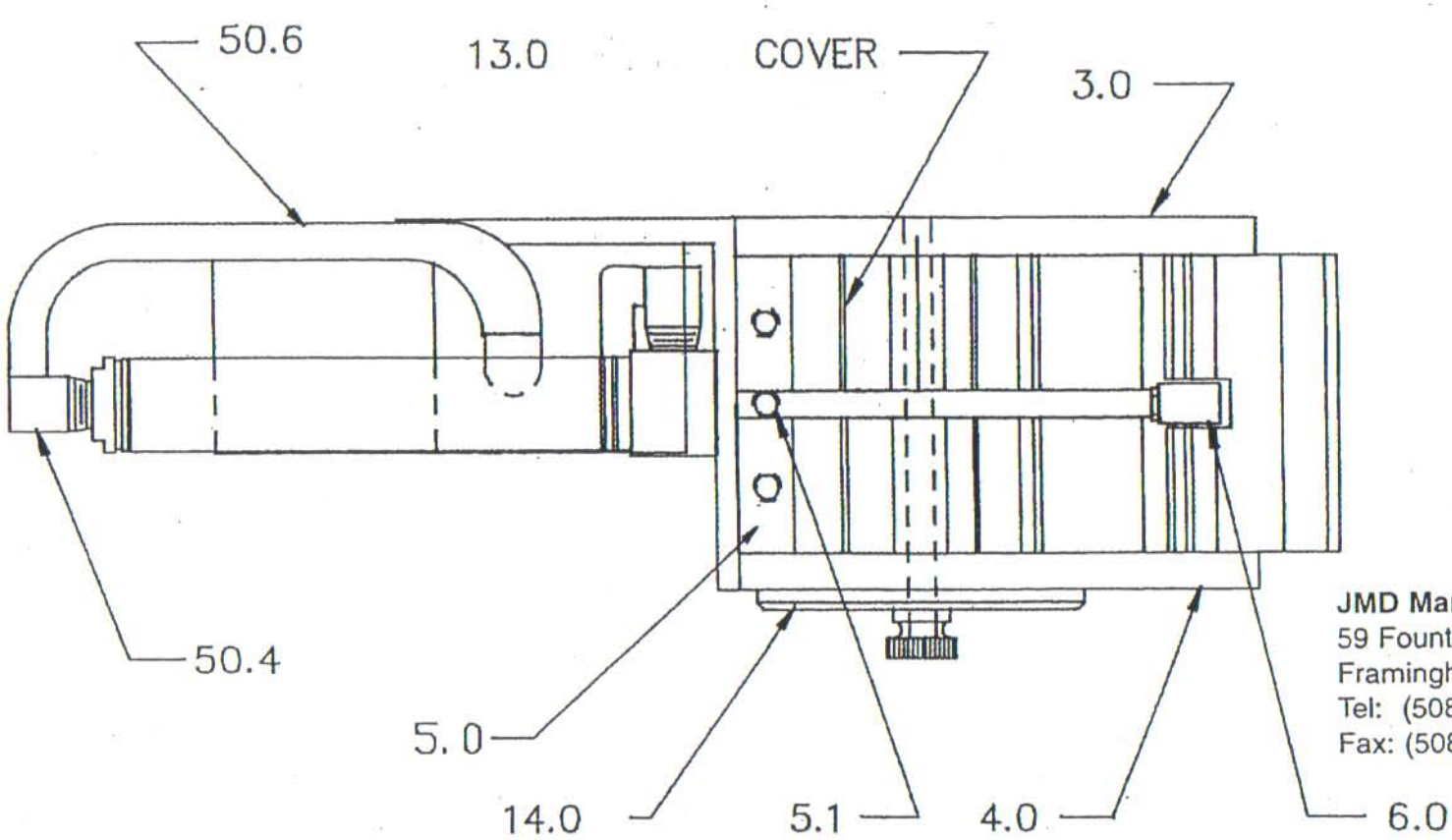
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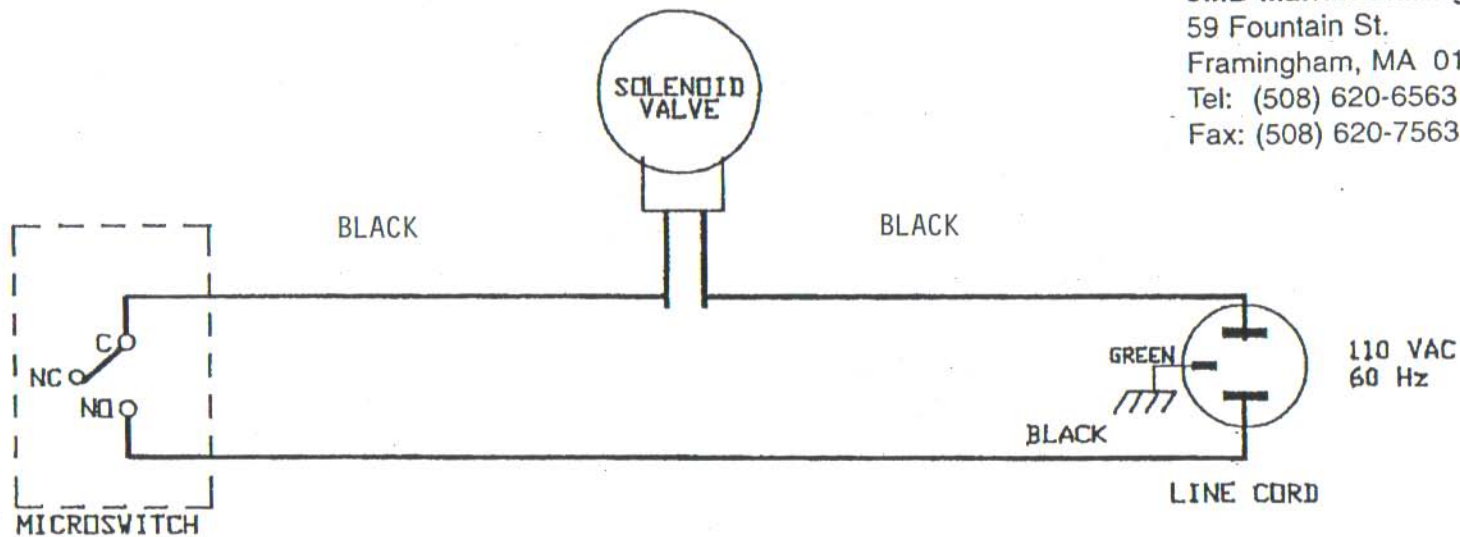
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110 VAC COIL

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CONNECTION SETUP