



SAFETY PRECAUTIONS AVOID INJURY

Safeguards are designed into this application equipment to protect operators and maintenance personnel from most hazards during equipment operation. However, certain safety precautions must be taken by the operator and repair personnel to avoid personal injury, as well as damage to the equipment. For best results, application equipment must be operated in a dry, dust-free environment. Do not operate equipment in a gaseous or hazardous environment.

Carefully observe the following safety precautions before and during operation of the equipment:

- ALWAYS wear appropriate ear protection.
- ALWAYS wear approved eye protection when operating powered equipment.
- ALWAYS keep guard(s) in place during normal operation.
- ALWAYS disconnect the tool from its power source when performing maintenance on the equipment.
- NEVER wear loose clothing or jewelry that may catch in moving parts of the application equipment.
- NEVER insert hands into installed application equipment.
- NEVER alter, modify, or misuse the application equipment.

TOOLING ASSISTANCE CENTER

CALL TOLL FREE 1-800-722-1111 (CONTINENTAL UNITED STATES AND PUERTO RICO ONLY)

The **Tooling Assistance Center** offers a means of providing technical assistance when required.

In addition, Field Service Specialists are available to provide assistance in the adjustment or repair of the application equipment when problems arise which your maintenance personnel are unable to correct.

INFORMATION REQUIRED WHEN CONTACTING THE TOOLING ASSISTANCE CENTER

When calling the Tooling Assistance Center regarding service to equipment, it is suggested that a person familiar with the device be present with a copy of the manual (and drawings) to receive instructions. Many difficulties can be avoided in this manner.

When calling the Tooling Assistance Center, be ready with the following information:

1. Customer name
2. Customer address
3. Person to contact (name, title, telephone number, and extension)
4. Person calling
5. Equipment number (and serial number if applicable)
6. Product part number (and serial number if applicable)
7. Urgency of request
8. Nature of problem
9. Description of inoperative component(s)
10. Additional information/comments that may be helpful

Read this document thoroughly before operating the machine. The performance of this machine will depend largely upon the intelligent use of this information contained in this document.

When reading this manual, pay particular attention to **DANGER**, **CAUTION**, and **NOTE** statements.

DANGER *Denotes an imminent hazard which may result in moderate or severe injury.*



CAUTION *Denotes a condition which may result in product or equipment damage.*



NOTE *Highlights special or important information.*



CAUTION *Do NOT use the power unit as a crushing device or for anything other than a crimping machine for the specified product. Inappropriate use of the power unit could result in personnel injury OR damage to the power unit.*




Always wear approved eye protection while operating the equipment.



Always wear approved hearing protection while operating the equipment.



Read and understand the entire manual.



Moving parts can crush and cut.



Do not operate the machine if the guards are removed.



Always disconnect the air and lockout the tool when not in use, when performing maintenance on the tool, or when clearing a jammed tool.



There is a risk of whipping if a hose is not properly installed or becomes detached.



Measurements are in metric units [followed by U.S. customary units in brackets]. Illustrations are for identification only and are not drawn to scale.



The unit should ONLY be operated by trained personnel.



If NOT using quick-disconnect fittings to connect the tool to the air supply, provide operators other means to easily disconnect the tool from the air supply.



Stored gas or fluid MAY be a hazard.

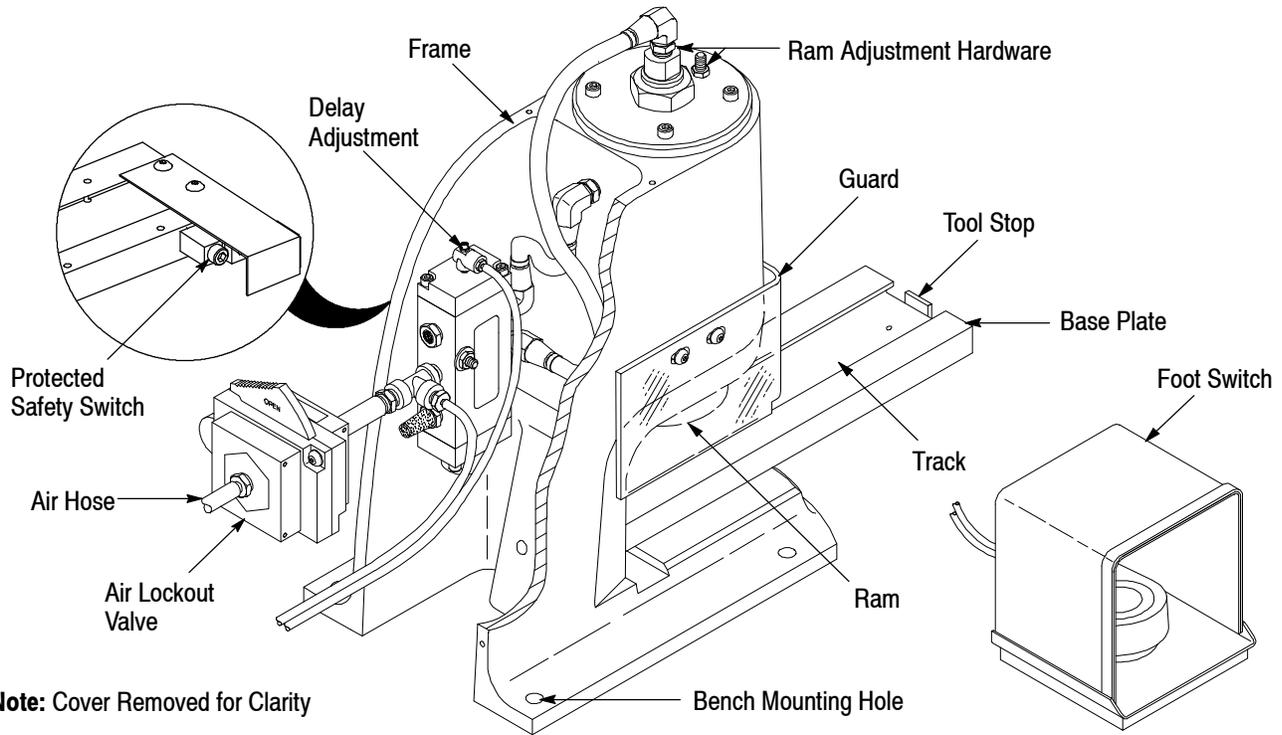


Figure 1

1. INTRODUCTION

This instruction sheet provides recommended procedures for setup, tooling assembly (upper tooling and lower tooling) installation, ram height adjustment, and inspection of Pneumatic Applicator Frame Assembly 91112-2. Read these instructions thoroughly before using the applicator frame assembly.

NOTE All numerical values in this instruction sheet are in metric units [with U.S. customary units in brackets]. Dimensions are in millimeters [and inches]. Figures are not drawn to scale.

Reasons for reissue of this instruction sheet are provided in Section 9, REVISION SUMMARY.

2. DESCRIPTION (Figure 1)

The applicator frame assembly consists of a bench-mountable frame, ram, guard, foot switch, protected safety switch, air hose, and base plate and operates with a noise level of <92 dBA.

The ram holds the upper tooling and the base plate supports the lower tooling. The foot switch initiates the termination cycle. The protected safety switch must be activated to allow the foot switch to operate. The ram height is adjustable to accommodate various connectors and tooling.

3. SETUP

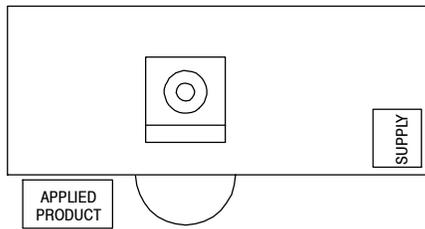
Secure the frame assembly to a work bench to ensure stability during operation. The air supply must provide and maintain pressure of 550 to 620 kPa [80 to 90 psi] to the applicator frame assembly.

NOTE The air line should be equipped with a filter that has an element with a maximum rating of 20 microns.

4. MACHINE SETUP (Figure 2)

Select an appropriate location for the machine. The location should be well lighted, and should have convenient and adequate air and power supplies.

1. Secure the machine to the bench with four 1/4-in. dia bolts or lag screws.
2. Blow air through the air hose to remove any foreign particles before attaching supply hose to the back of the machine.
3. Install air line filter, air pressure regulator, and lubricator (supplied by the customer) between the air supply and hose, as shown in Figure 3. The assembly must be as close as possible to the machine. Fill the air line lubricator with a good grade line lubricant (as recommended by the filter manufacturer). When machine is not in use, the air supply should be turned "OFF".



Materials Locations - Plan View

Figure 2 is a typical plan view to illustrate the convenience of handling materials afforded by the proper setup.

It is also recommended that quick-disconnect fittings are used to connect the tool to the air supply. If not using quick-disconnect fittings, provide a pneumatic lock-out on the air line that bleeds air after it is turned off.

Figure 2

5. INSTALLING TOOLING ASSEMBLY (Figure 1)

NOTE *The tooling assembly consists of upper tooling and lower tooling. Refer to the instructions packaged with the tooling assembly for a description of components and specific orientation of tooling in the frame assembly.*

Proceed as follows:

1. Disconnect the air supply by shifting the air lockout valve. Apply a lock or tag to this valve per applicable workplace safety procedures. Remove the guard.
2. Secure the appropriate upper tooling to the ram with the two socket head screws (included with the tooling assembly).
3. Remove the tool stop from the base plate.
4. Slide the lower tooling into the tracks on the base plate.

5. Re-install the tool stop onto the base plate.
6. Re-install the guard and reconnect the air supply by unlocking and shifting the air lockout valve.

6. OPERATION

NOTE *Before attempting termination of any connectors, set the ram height as described in Paragraph 6.2, Ram Height Adjustment.*

1. Set up the lower tooling and install the connector and cable according to the instructions packaged with the tooling assembly.
2. Slide the lower tooling to the rear of its travel in the base plate. This will activate the protected safety switch and will allow operation of the foot switch.
3. Press the foot switch to initiate the cycle. The foot switch may be released immediately with the applicator frame assembly cycle time adjustable for proper termination as described in Paragraph 6.1, Unit Cycle Time Adjustment.
4. When the ram has moved to the top of its motion, slide the lower tooling forward and remove the terminated connector.

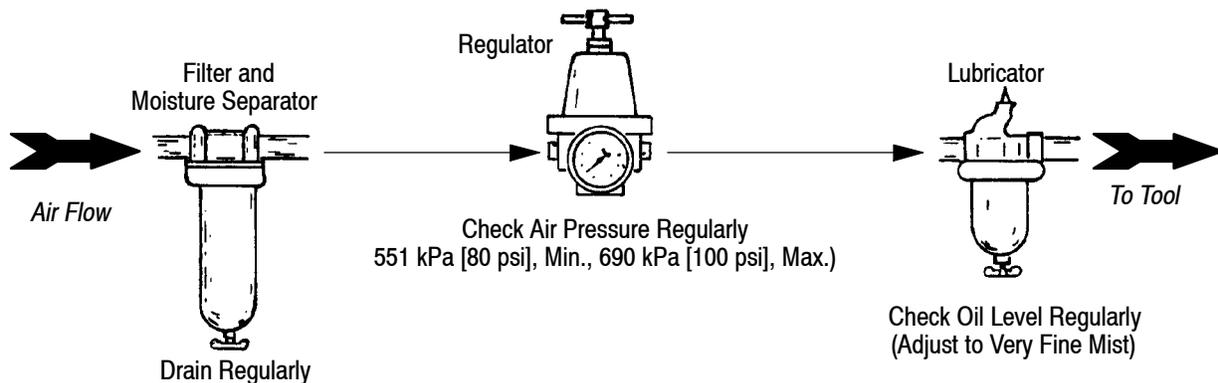


Figure 3

7. ADJUSTMENTS

7.1. Unit Cycle Time Adjustment

1. Remove the controls cover by removing the four retaining screws.
2. Set the ram bottoming time by turning the slotted adjustment screw at the top of the ram control valve, **CLOCKWISE** to increase bottoming time or **COUNTER-CLOCKWISE** to decrease bottoming time. Check the operation time by pressing and releasing the foot switch.

NOTE



*If the foot switch is held down, the ram will remain down until the time the foot switch is released plus the adjustable delay time. If desired, the unit cycle time may be controlled directly by the foot switch — ram down when the foot switch is depressed, ram up when the foot switch is released — by turning the slotted adjustment screw **COUNTERCLOCKWISE** to the limit of its travel. The operator is responsible for ensuring adequate cycle time for proper termination.*

3. Re-install the controls cover.

7.2. Ram Height Adjustment

DANGER



TO AVOID PERSONAL INJURY, keep hands away from the ram if the guard is removed and the air is connected.

After installing the tooling assembly, a ram height adjustment may be required. Refer to Figure 4 and proceed as follows:

1. Connect the air supply (ram will rise). Slide the lower tooling, without a connector loaded into it, into the applicator frame applicator and actuate the foot switch (ram will descend). With the ram fully **DOWN**, disconnect the air with the air lockout valve, as described in Section 4, Step 1.
2. Measure the distance between the bottom surface of the upper tooling and the corresponding surface of the lower tooling inserts. Determine the

closed height dimension required according to the application specification for the connector being used and the instruction sheet for the tooling assembly being used.

3. If adjustment is required, record the dimension and direction (**UP** or **DOWN**) that the ram must be moved.
4. Turn the down-travel threaded stud locknut **COUNTERCLOCKWISE** several turns. Rotate the stud **CLOCKWISE** to lower the ram or **COUNTERCLOCKWISE** to raise the ram (one full turn of the stud equals 1.57 mm [.062 in.] of ram height movement). The air line fitting should swivel to allow adjustment without removing the air line.
5. After the closed height adjustment is made, tighten the threaded stud locknut.
6. Repeat Steps 1 and 2. If further adjustment is required, repeat Steps 3 through 5. Continue making adjustments until the proper height dimension is attained.

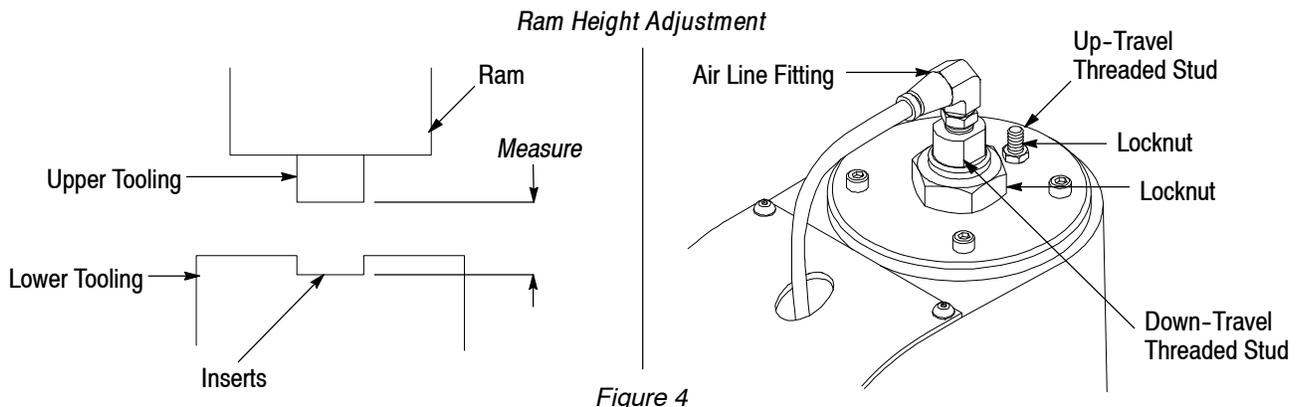
7. If the instruction sheet for the tooling assembly being used specifies an open height setting for the applicator frame assembly, this may be accomplished by adjusting the up-travel threaded stud (see Figure 2) **CLOCKWISE** to lower the ram open height, **COUNTER-CLOCKWISE** to raise the ram open height (one full turn of the stud equals 1.27 mm [.050 in.] of ram height movement). Disconnect the air supply as described in Step 1 of Section 4 while measuring and adjusting the ram height. Reconnect the air after each adjustment to make sure that the ram is in the full up position, then disconnect the air again for measurement.

8. After completing the ram height adjustment, slide the lower tooling away from the ram, tighten both locknuts.

NOTE



After the proper height adjustments are reached, replace all applicable guards and covers in their original positions with the proper attachment hardware.



8. INSPECTION

The applicator frame assembly should be inspected with the information provided in Figure 3. It is recommended that it be inspected immediately upon arrival at your facility, and at regularly scheduled intervals, to ensure that it has not been damaged during handling.

9. PREVENTIVE MAINTENANCE

Preventive maintenance of the machine is limited to periodic cleaning, inspection, and lubrication. Depending on the amount of use, a regular maintenance program should be established and maintained, whether daily, weekly, or monthly. This will greatly reduce downtime for repairs and replacement of parts. When performing preventive maintenance, remove cover to gain access to the machine.



When performing preventive maintenance, MAKE SURE that the air supply is turned "OFF".

9.1. Cleaning

Prior to operation, or on a daily basis, perform the following:

1. Use a CLEAN, dry cloth to wipe the entire machine. Remove any evidence of dust or other contaminants.
2. Use a solvent or similar cleaning fluid to remove any evidence of oil or grease from areas not requiring lubrication, particularly in the "target area".
3. Use an approved-type air hose or vacuum to remove any chips or metal particles that may be in the machine.



Compressed air used for cleaning must be reduced to less than 207 kPa [30 psig], and effective chip guarding (including eye protection) must be worn.

9.2. Inspection

Perform the following inspection daily or prior to each time the machine is to be used.

1. Check to ensure all components of the machine are secure, and look for evidence of worn or broken parts.
2. Inspect the pneumatic system for loose connectors or leakage in the air lines. Repair and/or replace components as necessary.

3. Check the air supply system and follow the manufacturer's instructions for maintenance and care of the air supply filter/regulator/lubricator.

9.3. Lubrication

Because the bearing is an oilless-type bearing, no lubrication is necessary. However, the air supply should be lubricated, as recommended by the manufacturer, described in Section 4, Machine Setup.

The fluid level in the lubricator should be checked daily.



DO NOT allow any lubricants to enter the "target area". If this should happen, thoroughly clean the area immediately.

10. STORAGE

If the tool is not used, it must be stored by taking the following precautions:

1. Store the tool indoors.
2. Grease unpainted parts.
3. Protect this tool from knocks or stresses.
4. Protect the tool from high levels of humidity and from big temperature changes.
5. Prevent the tool from coming into contact with corrosive substances.

11. DECOMMISSIONING

In compliance with the regulations in force in the country where the tool is used, the user must make sure that waste produced during operation is correctly disposed of. Disposal of lubricants and parts removed must be carried out in compliance with the standards in force in the country where the tool is used.

12. REPLACEMENT AND REPAIR

Customer-replaceable parts are listed in Figure 5. Parts other than those listed should be replaced by Tyco Electronics to ensure quality and reliability. Order replacement parts through your representative, or call 1-800-526-5142, or send a facsimile of your purchase order to 717-986-7605, or write to:

CUSTOMER SERVICE (038-035)
TYCO ELECTRONICS CORPORATION
PO BOX 3608
HARRISBURG PA 17105-3608

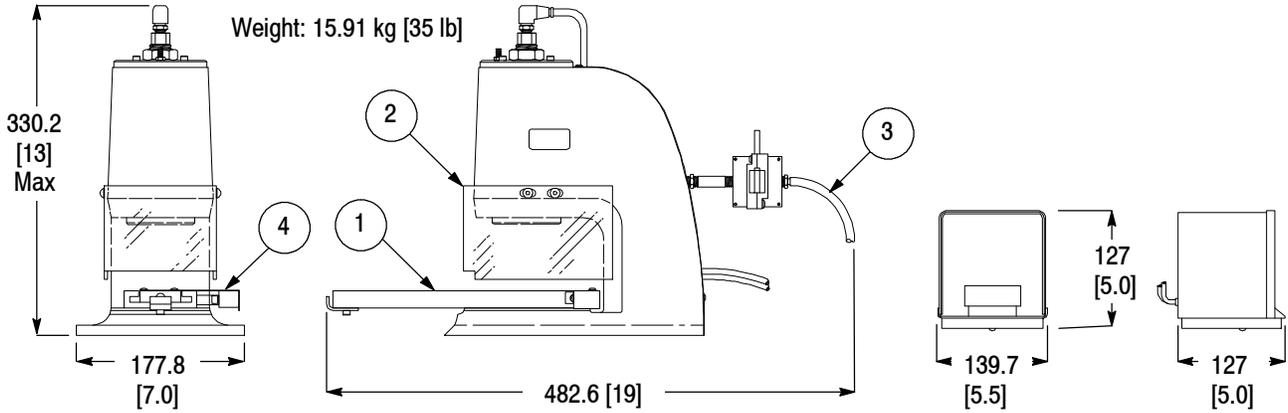
For customer repair service, call 1-800-526-5136.

13. REVISION SUMMARY

Revisions to this instruction sheet include:

- Updated document to corporate requirements
- Added new safety icons to beginning of

- document
- Added new information to Section 2
 - Added new Figures 2 and 3 and renumbered
 - Added new Sections 4, 9, 10, and 11 and renumbered



ITEM	PART NUMBER	DESCRIPTION	QTY PER ASSEMBLY
1	126328-4	SUB-ASSEMBLY, Base Plate	1
2	126424-1	KIT, Guard	1
3	38111	HOSE, Air	1
4	1583207-2	COVER, Switch	1

Figure 5

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкуренеспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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