ORIGINAL INSTRUCTIONS

SAFETY PRECAUTIONS — AVOID INJURY — READ THIS FIRST!

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 approved eye protection while operating powered equipment.



Always wear appropriate ear protection.



Always keep guard(s) in place during normal operation.



Pinch point warning: Keep hands clear of moving parts during operation.



Always disconnect the tool from its power source when performing maintenance on the equipment.



Never insert hands into installed equipment.
Never wear loose clothing or jewelry that may catch in moving parts of the equipment.



Never alter, modify, or misuse the equipment.

SUPPORT CENTER

CALL TOLL FREE 1-800-522-6752 (CONTINENTAL UNITED STATES AND PUERTO RICO ONLY)

The **Support 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 SUPPORT CENTER

When calling the Support 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 Support 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

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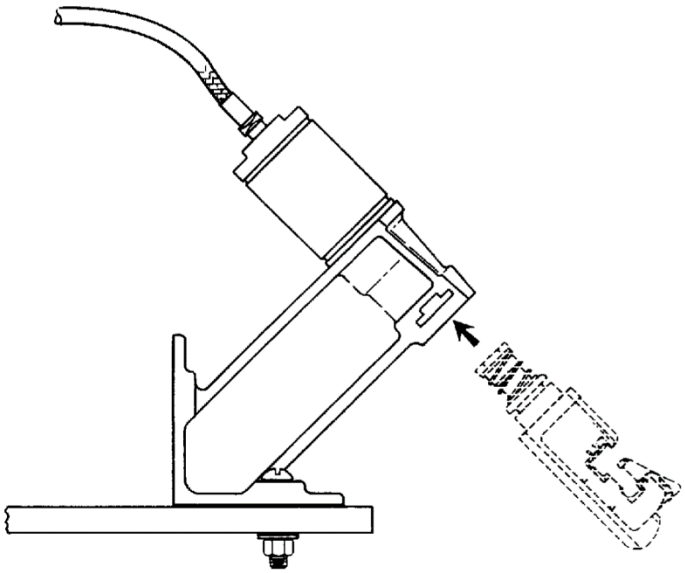


Figure 1

DANGER
This unit should only be operated by trained personnel.

DANGER
This tool is not insulated for coming into contact with electric power sources.

DANGER
Do not use this tool in explosive atmospheres.

DANGER
Stored gas or fluid energy may cause a hazard.

1. INTRODUCTION

Pneumatic Power Bench Assembly 58338-1 is a pneumatic power unit designed to accept a variety of interchangeable terminating heads or feed track assemblies that terminate unstripped wire in connectors.

Refer to the instructions packaged with the terminating head or feed track assembly for proper selection, setup and adjustment procedures, terminating and test procedures, and maintenance. Read this and all referenced materials carefully before using the power bench assembly.

NOTE
Dimensions in this instruction sheet are in metric units [with U.S. customary units in brackets].
Figures are for reference only and are not drawn to scale.

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

2. DESCRIPTION (SEE FIGURE 2)

The power bench assembly consists of a bench mount with an attached pneumatic power assembly, a foot switch, and air tubes which connect the foot switch to the power assembly and the air source to the foot switch.

The bench mount is attached to a bench or work table with screws or clamps and the foot switch is used to actuate the power assembly when connected to an air source.

In this use, the pneumatic power bench assembly emits a noise level less than 70 dB and the vibration level is less than 2.5 mm/s².

3. INSTALLATION

DANGER
*To avoid personal injury, **always** disconnect handle assembly from the air supply when installing or removing the bench mount.*

The bench mount is designed to be mounted in either of the two positions shown in Figure 2. Orientation of the bench mount depends on operator preference and the desired eject direction of terminated connector (refer to Figure 4). Install the bench mount as follows:

1. Place the bench mount on a bench or work table in the desired location and orientation.
2. Mark the location for the screws in the bench surface through the drilled holes of the bench mount flange. Drill holes for the mounting screws.

NOTE
Mounting hardware is not supplied with the power bench assembly and must be supplied by the customer.

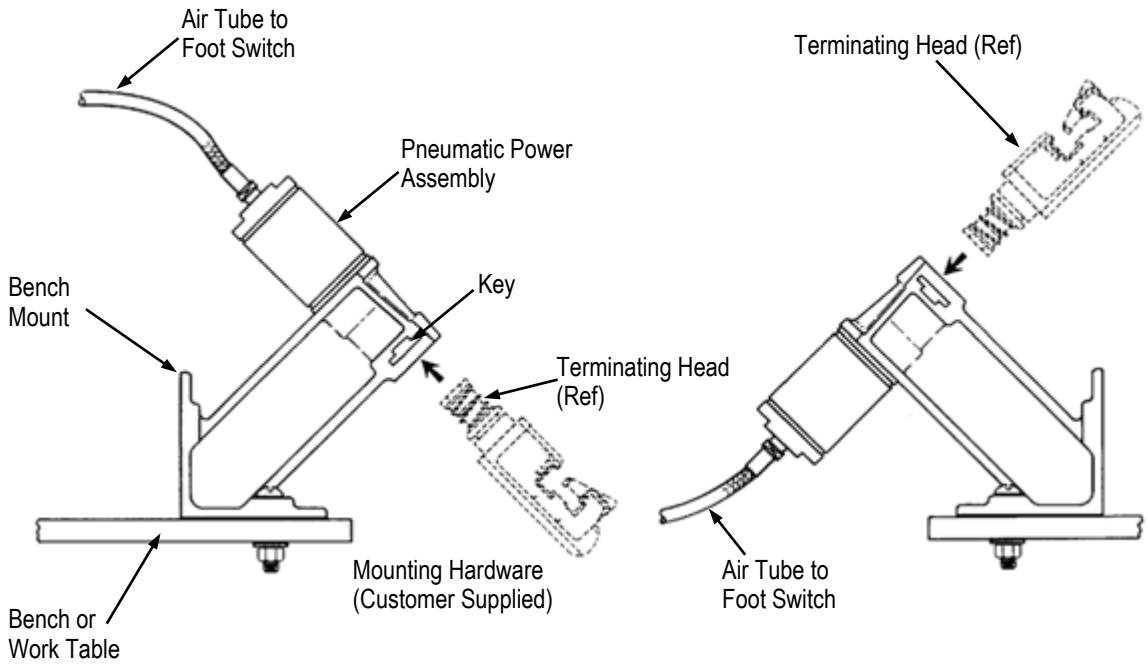


Figure 2

3. Secure the screws.
4. Connect the air tube to an approved air source. It is recommended that a filter-regulator-lubricator unit with the lubricator adjusted to the minimum setting be used with the power bench assembly. Refer to Figure 3.

DANGER
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. Such as a pneumatic lock-out on the air line that bleeds air after it is turned off.

NOTE
The power assembly is designed to operate at an air pressure range of 276 through 483 kPa [40 through 70 psi]. Service life of the power assembly can be greatly extended when only the necessary air pressure is applied. Excessive pressure causes unnecessary wear and strain on the power assembly, terminating head or feed track assembly, and connectors.

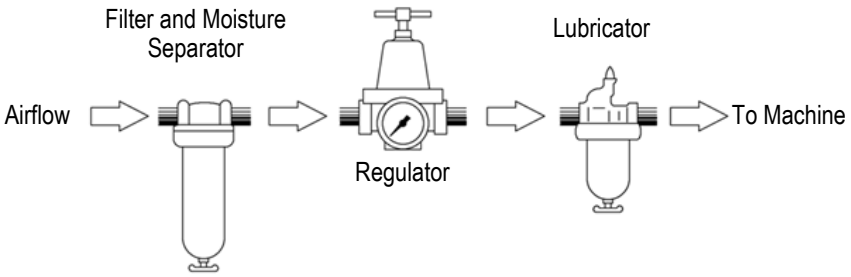


Figure 3

4. INSTALLATION AND REMOVAL OF TERMINATING HEAD OR FEED TRACK ASSEMBLY

1. Disconnect the power bench assembly from the air supply.

DANGER
To avoid personal injury, always disconnect the power bench assembly from the air supply when installing or removing the terminating head or feed track assembly.

2. Position the blade tip of a screwdriver between the shoulder of the key and the power assembly body. Gently pry the key out of the keyway.
3. Insert the terminating head or feed track assembly into the head entrance of the power assembly body until it bottoms. See Figure 4.
4. Insert the key completely into the keyway to retain the terminating head or feed track assembly.
5. To remove the terminating head or feed track assembly, disconnect the power bench assembly from air supply, remove the key, and pull the terminating head or feed track assembly out of the power assembly. Refer to Figure 4.

CAUTION
Do not use this tool as a blunt object, a crushing device, or for any purpose other than crimping the proper specified product. Inappropriate use of the tool could result in personal injury or damage to the tool.

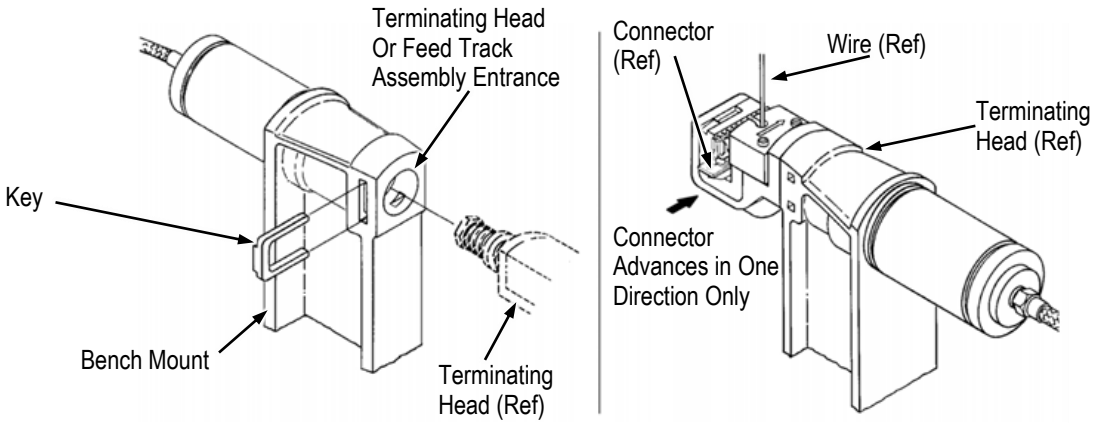


Figure 4

5. OPERATION

The following procedure provides only general information concerning crimping. Refer to the instructions packaged with the terminating heads for detailed information including wire stripping dimensions and instructions for positioning terminals in the terminating heads.

1. Insert the connector into the left side of the head.
2. Align the contact to be terminated with the wire inserter of the head. Make sure that the locating pawl rests between the connector index ribs.

3. Insert an unstripped wire into the funnel area between the contact and the wire inserter until it bottoms on the tool base.
4. Depress the footswitch and hold it until the wire inserter bottoms.
5. Release the footswitch. The wire inserter will retract and the feed slide will automatically advance the connector to the next contact position.
6. Repeat steps 2 through 5 until all contacts have been terminated.
7. Inspect each termination.

6. MAINTENANCE AND INSPECTION



DANGER
*To avoid personal injury, **always disconnec**t the power bench assembly from the air supply when performing maintenance or inspection procedures.*

These procedures have been established to ensure the quality and reliability of the power bench assembly. A brief inspection should be made daily by the operator and a more detailed inspection should be performed on a scheduled basis by quality control personnel.

6.1. Daily Maintenance

Each operator of the unit should be made aware of, and responsible for, the following procedures:

1. Remove dust, moisture, and other contaminants with a clean, soft brush, or clean, lint-free cloth. **Do not** use objects that could damage the power bench assembly.
2. Ensure that all components are in place and properly secured.
3. With the terminating head or feed track assembly in place, connect the air supply and actuate the power assembly by depressing and releasing the foot switch to ensure that the mechanisms and plunger move smoothly and freely.

6.2. Periodic Inspection (At Least Once a Month)

Regular inspections should be performed by quality control personnel. A record of quality control inspections should remain with the power bench assembly or with personnel responsible for the assembly. It is recommended that one inspection per month be performed; however, operator training and skill, amount of use, working conditions, and established company standards are all factors to be considered in scheduling inspections.

The inspections should be performed in the following sequence:

1. Remove any accumulated film with a suitable cleaning agent that will not affect plastic material.
2. Make certain that all components are in place and properly secured. Check air tube fittings for leaks.
3. Make a few test terminations and inspect the terminations in accordance with the inspection procedure described in the instructions packaged with the terminating head or feed track assembly.
4. Check for chipped, cracked, worn, or broken areas. If damage is evident, repair is necessary. See Section 8, Replacement and Repair.

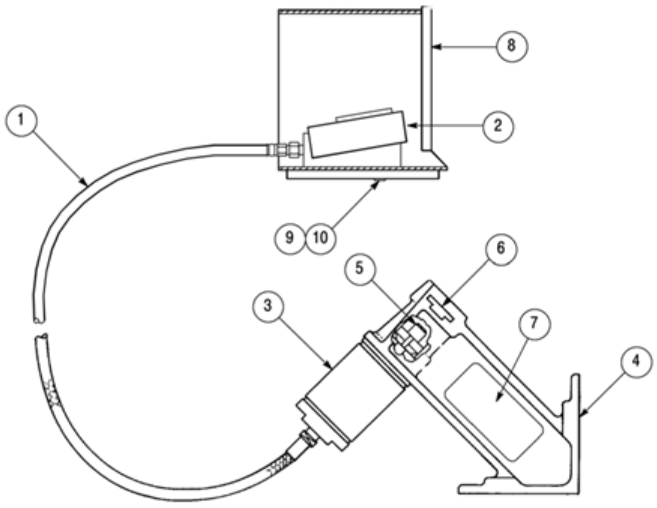
7. REPLACEMENT AND REPAIR

Customer-replaceable parts are listed in Figure 5. Parts other than those listed should be replaced by TE to ensure quality and reliability. For customer repair service or to order replacement parts, call 1-800-522-6752, or fax your purchase order to 717-986-7605, or write to: Customer Service (038-035), Tyco Electronics Corporation, PO Box 3608, Harrisburg, PA 17105-3608.

CUSTOMER SERVICE (038-035)
TYCO ELECTRONICS CORPORATION
P0 BOX 3608
HARRISBURG, PA 17105-3608

or

TYCO ELECTRONICS CORPORATION UK LTD
BARTON TORS
BIDEFORD
NORTH DEVON, GREAT BRITAIN



ITEM	PART NUMBER	DESCRIPTION	QTY PER ASSY
1	312622-2	SUBASSEMBLY, Air Tube	2
2	24198-1	AIR VALVE, 3-Way	1
3	313874-1	AIR CYLINDER	1
4	313852-1	BENCH MOUNT	1
5	312141-1	NUT, Cam Adjustment	1
6	312140-1	KEY	1
7	2119907-4	LABEL, CE	1
8	453866-1	GUARD, Foot Switch	1
9	4-23715-1	SCREW, Machine Pan Head, 4-40 x .19 in.	1
10	21060-7	SCREW, Slotted Pan Head, 4-40 x .25 in.	1

Figure 5

Pneumatic Schematic for 58338-1

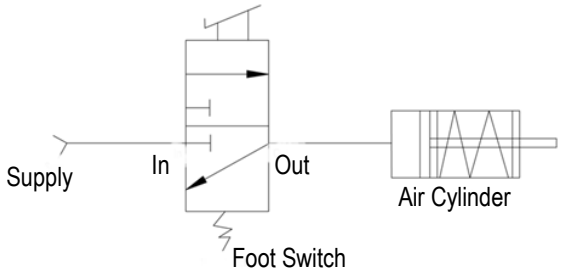


Figure 6

8. REVISION SUMMARY

Updated to current TE Connectivity format.