

Manual Bench Terminator 1437001-4

PROPER USE GUIDELINES

Cumulative Trauma Disorders can result from the prolonged use of manually powered hand tools. Hand tools are intended for occasional use and low volume applications. A wide selection of powered application equipment for extended-use, production operations is available.

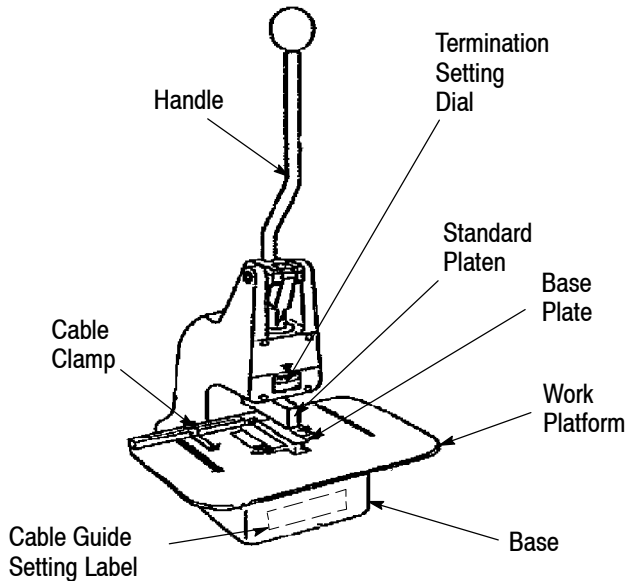


Figure 1

1. INTRODUCTION

This instruction sheet covers Manual Bench Terminator 1437001-4, shown in Figure 1. This terminator is designed to install mass termination connectors to flat cable with minimum operator effort. The terminator exerts a high compression force, and with an adjustment of the termination setting dial, terminates a variety of connector styles.

NOTE



Dimensions on this sheet are in millimeters [with inch equivalents in brackets]. Figures and illustrations are for identification only and are not drawn to scale.

2. DESCRIPTION

Manual Bench Terminator 1437001-4 features a bench-mountable base, work platform, base plate, platen, cable clamp, cable guide, and handle. See Figure 1.

3. SETUP PROCEDURE

The handle is removable for convenient storage; however it should be assembled (as shown in Figure 1) when in use. The base should be secured to a workbench to ensure stability during operation.

4. OPERATION

1. Be sure that the appropriate base plates and platen are selected and installed to the terminator. See Figure 2. Base plates can be installed either straight, or at right angles to the terminator. The platen can be rotated to match the base plate orientation.

NOTE



*A spring-loaded detent will hold the platen either straight or at a right angle to the terminator. If the detent can **not** be felt, rotate the platen 180°.*

2. Place the spacer block in the remaining opening of the work platform. The filler block should be located on the side corresponding to cable assembly.

3. Locate the cable guide and clamp on either the left or right side (according to operator convenience). If necessary (because of the location of the cable guide), rotate the clamp 180° by removing the clamp locking screw, rotating the clamp, and replacing the screw.

NOTE



The clamp locking screw nut is not captive in its track. If it is removed, the nut must be replaced and be able to move freely in the track.

4. Adjust the cable guide by loosening the cable guide locking screw and moving the front of the guide to the setting marked on the work platform. The appropriate setting can be found on the cable guide setting label (Figure 1).

NOTE



For jacketed cable, the guide should be set 1.52 [.06] to 2.8 [.09] further than normal toward the rear of the terminator.

5. Adjust the cable clamp by loosening the cable clamp locking screw and moving the clamp to a position that best holds the assembly.

6. Adjust the connector termination height using the termination setting dial. Adjust the dial until the "shut height" (platen down) matches the termination height of the product you are terminating. The higher the setting, the higher the platen will be located.

7. Terminate a connector as follows:

- a. Insert cable into connector.

PART NUMBER	ORIGINAL PART NO.	PLATEN / BASE PLATE DESCRIPTION
5-1437000-6	779-3130	Standard platen
5-1437000-7	779-3131	Modified platen for use with 779-3166 and 779-3166M base plates
5-1437000-9	779-3132	Platen for all female transition connectors
6-1437000-4	779-3151	Base plate for all female transition connectors
6-1437000-6	779-3152	Base plate for standard pcb solder transition connector (to terminate cable before connector is soldered to board)
6-1437000-7	779-3153	Base plate for 609 series slimline pcb solder transition connector (to terminate cable before connector is soldered to board)
6-1437000-9	779-3154	Base plate for 609 series standard and slimline pcb solder transition connector (to terminate cable after connector is soldered to board)
7-1437000-0	779-3155	Base plate for standard and low profile DIP plugs
7-1437000-4	779-3162	Base plate for all DIP socket connectors
7-1437000-6	779-3164	Base plate for all card edge connectors
7-1437000-8	779-3166	Base plate for all "D" connectors except 50 position
7-1437000-9	779-3166M	Base plate for all metal shell "D" connectors except 50 position
8-1437000-3	779-3167	Base plate for 50 position "D" connectors -- metal and plastic
8-1437000-5	779-3168A	Base plate for all 622 male connectors
8-1437000-8	779-3173	Base plate for ribbon and "D" connectors flat cable backshell
9-1437000-0	779-3174	Base plate for ribbon and "D" connectors round cable backshell
9-1437000-2	779-3175	Base plate for 622 series pcb solder transition connector (to terminate cable before connector is soldered to board)
9-1437000-3	779-3179	Base plate for low profile "D" connectors
9-1437000-8	779-3181	Base plate for bench terminator cable cutter
1437001-1	779-3184	Base plate for all ribbon connectors
9-1437000-5	779-3179636	Base plate for all 636series "D-SUB" connectors

Figure 2

- b. Place connector and cable in base plate with cable under the clamp and against the guide.
- c. With connector and cable in place, pull the handle down until the tooling bottoms.
- d. Remove the terminated cable from the terminator.

5. LUBRICATION

To prolong the useful life of Manual Bench Terminator 1437001-4, lubricate it monthly. Apply a suitable high compression grease to rotating and sliding parts.

6. TERMINATOR INSPECTION

Manual Bench Terminator 1437001-4 should be inspected immediately upon its arrival at your facility to ensure that the terminator has not been damaged during handling.

Regular inspections should be performed by quality control personnel. A record of scheduled inspections

should remain with the terminator or be supplied to supervisory personnel responsible for the tool. The inspection frequency should be based on the amount of use, working conditions, operator training and skill, and established company standards.

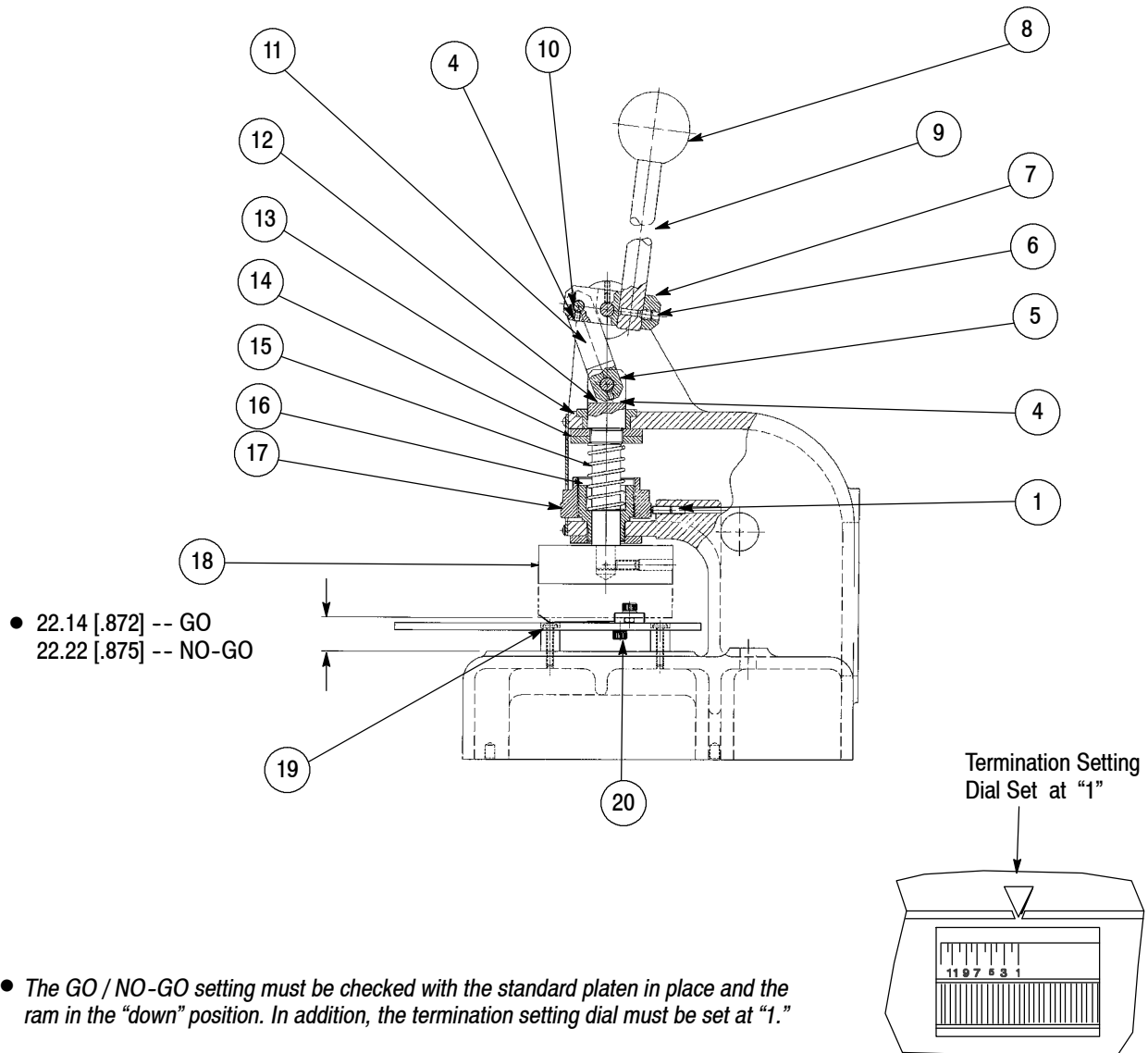
Parts other than those listed in Figure 3 must be replaced by qualified TE Connectivity personnel. When repair is necessary, order replacement parts through your TE representative, or call 1-800-526-5142, or send a facsimile of your purchase order to 717-986-7605, or write to:

CUSTOMER SERVICE (38-35)
 TYCO ELECTRONICS CORPORATION
 P.O. BOX 3608
 HARRISBURG, PA 17105-3608

7. REVISION SUMMARY

Since the previous version of this document, the following changes were made:

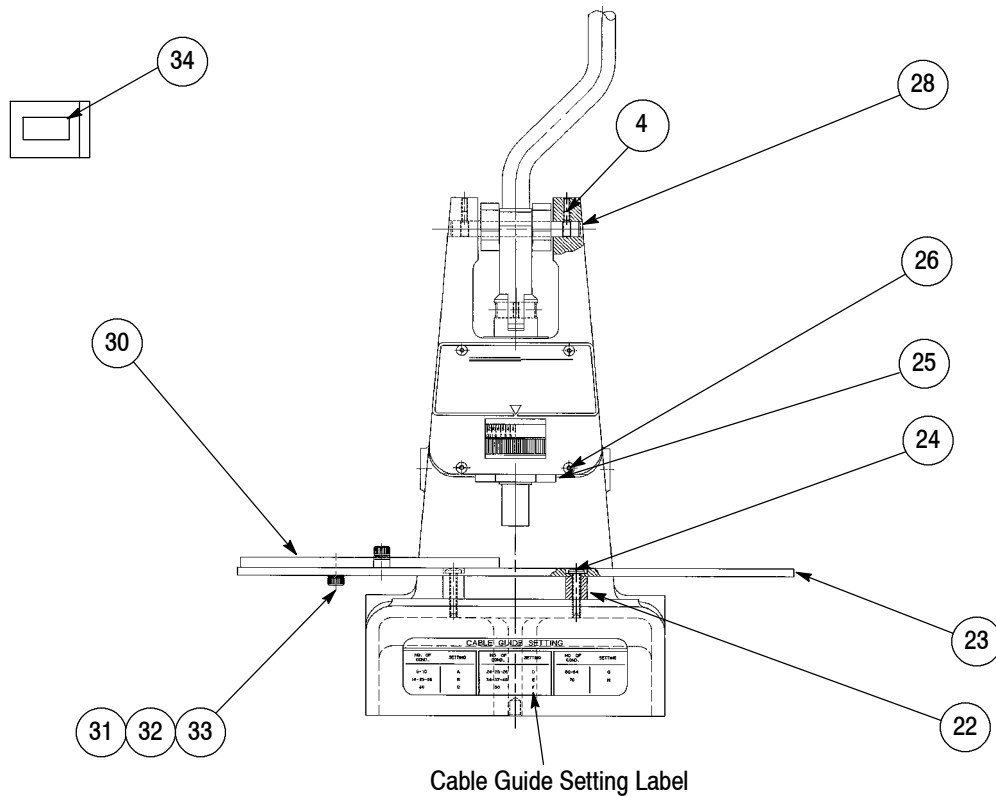
- Updated document to corporate requirements.



● The GO / NO-GO setting must be checked with the standard platen in place and the ram in the "down" position. In addition, the termination setting dial must be set at "1."

ITEM NUMBER	PART NUMBER		DESCRIPTION	QTY PER ASSY
	TYCO ELECTRONICS	ORIGINAL		
1	1424765-1	A373301	BALL PLUNGER	1
4	2-21006-9	K100312	SETSCREW, No. 6-62 X 1/4 Inch Long, Cup Point	5
5	1424766-1	C3469	PLATEN, Ram Shaft	1
6	1-21059-3	K100311	SETSCREW, 1/4 X 20 X 3/8 Inch Long, Half Dog	1
7	1424767-1	C3467	LINK, Handle	1
8	1424773-1	A2891	KNOB, Handle	1
9	1424778-1	B3476	HANDLE	1
10	1424769-1	A3742	PIN, Pivot	1
11	1424779-1	B3470	LINK, Toggle	1
12	1424774-1	A3740	SHAFT AND LINK PIN	1

Figure 3 (Sheet 1 of 2) cont'd



ITEM NUMBER	PART NUMBER		DESCRIPTION	QTY PER ASSY
	TYCO ELECTRONICS	ORIGINAL		
13	1424775-1	A3734	SHAFT AND GUIDE BUSHING	1
14	1424776-1	B346801	NUT, Shaft Adjusting	2
15	1424777-1	A3735	RETURN SPRING, Handle	1
16	1424780-1	C3573	BUSHING, Threaded	1
17	1424770-1	1K177	ASSEMBLY, Height Adjusting Nut	1
18	1424794-1	1K164	PLATEN, Standard	1
19	1490319-1	B4187	CABLE CLAMP	1
20	1424781-4	60003804	HEX NUT, No. 6-32 Inches	1
22	1424783-1	B4188	SPACER	4
23	1424784-1	D4184	PLATFORM, Work	1
24	1424785-1	600114	SCREW, No. 10-24 X 1 Inch Long, Phil., Pan Head	4
25	1424776-2	B346802	NUT, Bushing Retainer	1
26	1-21002-6	K101302	SCREW, No. 6-32 X .250 Inches Long, Button Head	4
28	1424787-1	A3741	PIVOT PIN, Handle Link	1
30	1424789-1	B4185	GUIDE, Cable	1
31	1424790-1	60007107	FLAT WASHER, No. 6	2
32	2-1424791-7	K100027	SCREW, Socket Head, No. 6-32 X .312 In. Long	2
33	27708-7	A418901	KNOB, Knurled	2
34	1424768-1	A4316	BLOCK, Spacer	1

Figure 3 (Sheet 2 of 2) end