

TWE - 17000

HEAVY-DUTY STUD GUN

Operations Manual



The TWE17000 has been designed to fit comfortably for all hands, including when wearing a work glove. The neck of the handle has been tapered so that when grasped, the trigger can be accessed easily, without any unnecessary strain. The handle length allows for better balance of the stud gun and it keeps the welding cable and connector away from your hand, minimizing operator fatigue.

STUD WELDING & FASTENERS INC
1032 Tennessee Blvd.
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(800) 936-1948



TRU-WELD EQUIPMENT LIMITED WARRANTY

All goods produced by Tru-Weld Equipment shall be warranted against defects including workmanship and components. No other warranties whether expressed, verbal, or implied will apply. Warranties only apply to the original equipment purchaser.

Warranty claims will be limited to either repair or replacement of the defective materials by Tru-Weld Equipment. At the option of Tru-Weld Equipment the location of where the warranty evaluation and repairs are made will be determined. All warranty claim items returned to Tru-Weld Equipment will be at the customer's expense. At the option of Tru-Weld Equipment the defect will either be repaired or replaced. Notice must be provided to Tru-Weld Equipment of a warranty defect within 30 days that the defect or failure is incurred. Warranties are not transferable.

This warranty does not apply for equipment which is used improperly in any fashion including but not exclusive to the following:

Equipment which has been modified

Equipment which has not been installed properly

Equipment which has been used for purposes other than which it had been designed

Equipment which has not been properly maintained

Equipment which was continued to be used after a defect had been found

Equipment which was damaged in any way

Tru-Weld Equipment will never be liable for consequential damages, loss, or expense occurring directly or indirectly from the use of the equipment covered in this warranty.

All cables, cable sets and connectors are not warranted.

Two (2) year warranty period from date of purchase

SC3402 Power Supply

SC3400 Power Supply

SC2402 Power Supply

SC2400 Power Supply

SC1600 Power Supply

SC1400 Power Supply

TWE250 Power Supply

TWE321 Power Supply

TWE375 Power Supply

One (1) year warranty period from date of purchase

TWESPC Power Supplies

TWP-2 Power Supply

Ninety Day warranty period from date of purchase

(Excluding cables and connectors)

TWE70000 HD Arc stud gun

TWE18500 MD Arc stud gun

TWE19000 LD Arc stud gun

TWEG CD stud gun

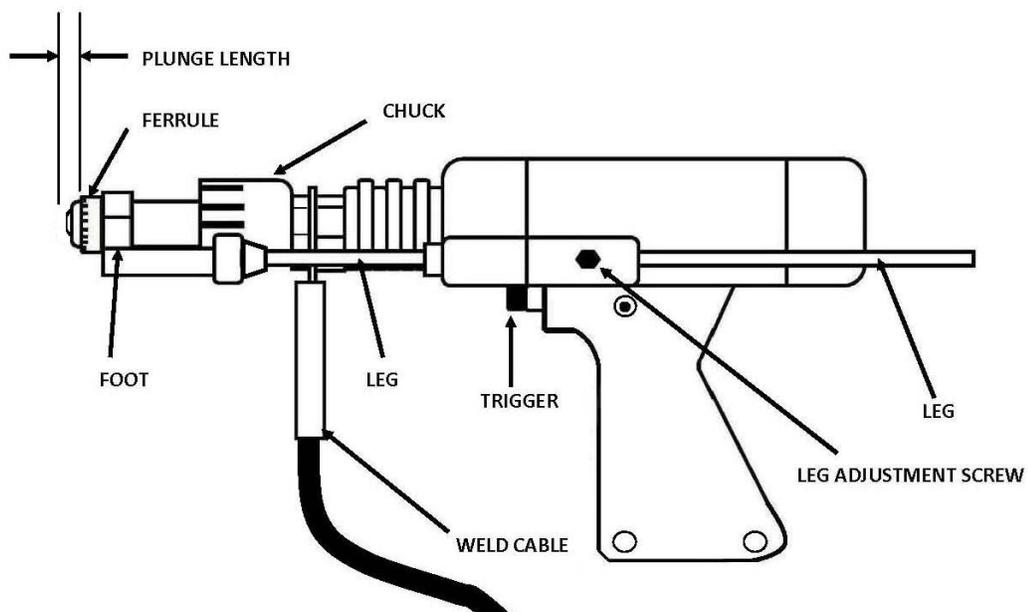
TWEHDG Heavy Duty CD stud gun

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STUD GUN SET-UP

Each stud welding application requires that the stud gun be set up properly for the correct stud and ferrule arrangement.

- ◆ Select the correct style and size of chuck for the stud to be welded and attach it to the stud gun.
- ◆ Select the proper length leg assemblies for the length of the stud.
- ◆ Select the proper foot piece best suited for your application.
- ◆ Select the grip to fit the ferrule which is provided with the stud to be welded.



TRU-WELD ARC STUD GUN

** Specifications are subject to change without prior notification.

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LIFT ADJUSTMENT

Setting the lift when all of the accessories and stud have been properly set on the stud gun, prior to welding, plug the control connector of the stud gun directly into the stud welder (do not attach the weld cable). Turn on the stud welder and actuate the trigger of the stud gun with the stud and ferrule in place. Note the retraction of the shaft of the stud gun. This is designated as the Lift.

The lift setting should be about $3/32$ " for general welding applications and studs ranging in diameter through $3/4$ " this adjustment should be suitable. For larger diameter studs and select applications the lift should be adjusted to approximately $1/8$ ".

Adjusting the lift:

Remove the back cap of the stud gun.

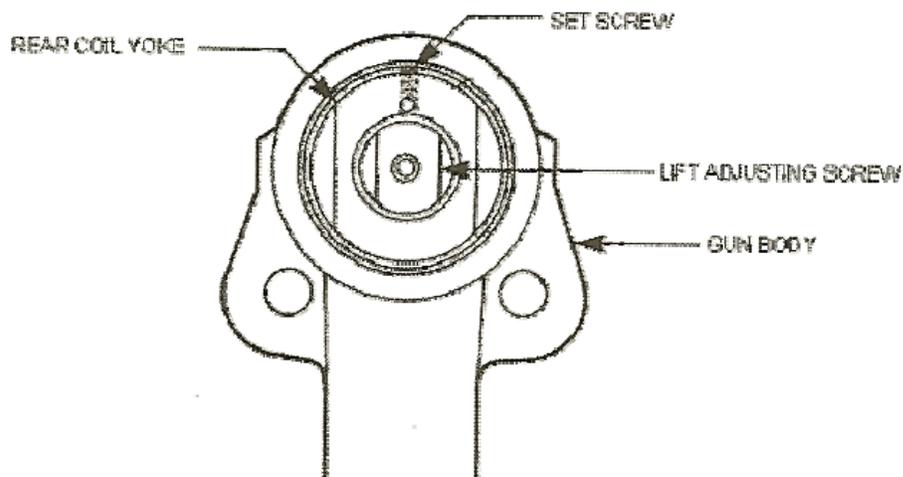
Loosen the two socket set screws around the periphery of the lift adjustment screw.

To increase lift rotate the lift adjustment screw counter clockwise and to decrease lift rotate clockwise.

With each turn check the lift by actuating the stud gun until the desired lift is achieved.

Tighten the socket set screws to hold the lift adjustment screw in place to secure the selected setting.

Replace the back cap of the stud gun.



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PLUNGE RATE ADJUSTMENT

This adjustment is used to control the rate of speed the stud plunges into the molten pool after the arc has been drawn.

Free travel adjustment: This adjustment can be used to control the force with which the stud is plunged into the molten weld pool by moving the engagement point of when the shaft of the stud gun engages the dampener.

Both of these adjustments are located at the front of the stud gun under the bellow of the stud gun shaft.

The outer adjustment knob can be turned to adjust the plunge rate; clockwise to decrease the rate of plunge and counter clockwise to increase it.

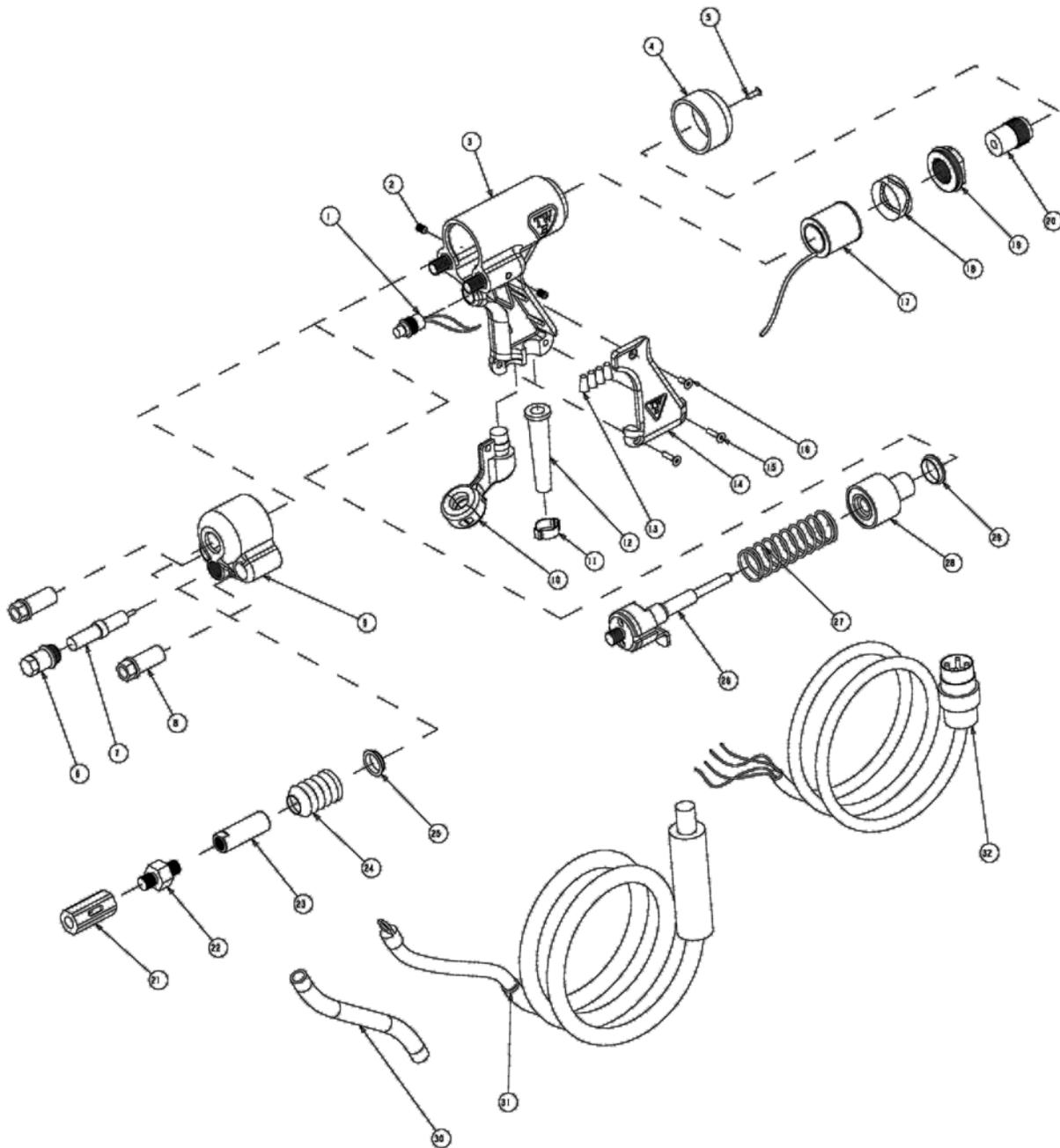
The dampener sleeve behind can be turned to adjust free travel by rotating it counter clockwise. Two turns should be the maximum amount of adjustment. Before electing to set the free travel, adjust the plunge rate to see if the desired effect is achieved.



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Attaching the stud gun to begin welding:

- ◆ Always select the desired of weld and control cable extension that is recommended for the stud welder selected.
- ◆ Attach the stud gun weld and control cable to the end of the cable extension.
- ◆ Actuate the stud gun without placing it on the surface to be welded to assure that the connection through the control cable is correct to complete the circuit and actuate the stud gun.
- ◆ Make certain the stud welder is set up properly for beginning the welding procedure selected.
- ◆ Place the selected stud into the chuck and attach the ferrule to the ferrule grip.
- ◆ Place the stud onto the surface to be welded and press the stud gun down until the ferrule is flush with the welding surface.
- ◆ Trigger the stud gun and hold it in place until the cycle of the stud welding is complete.
- ◆ Pull straight up off the stud without flexing the stud gun back and forth.
- ◆ DO NOT depress the trigger of the stud gun again when removing the stud gun from the welded stud.
- ◆ Remove the ferrule by breaking it off and examine the weld.
- ◆ Make proper adjustments if required.



PARTS LIST			
ITEM	QTY	PART No.	DESCRIPTION
1	1	17010	SWITCH
2	2	17017	SET SCREW
3	1	17004	GUN BODY
4	1	17007	REAR CAP
5	1	05429	SCREW - REAR CAP
6	1	09662P	DAMPENER COVER
7	1	12096	DAMPENER
8	2	09661	NUT, END CAP
9	1	17008	FRONT CAP, LONG
10	1	17012ASSY	CABLE CLAMP
11	1	13039	CLIP
12	1	01095	RUBBER STRAIN RELIEF
13	4	01106	WIRE NUT
14	1	17005	HANDLE COVER
15	2	17019	SCREW - HANDLE COVER LONG
16	1	17020	SCREW - HANDLE COVER SHORT

PARTS LIST			
ITEM	QTY	PART No.	DESCRIPTION
17	1	17013	GUN COIL
18	1	17009	WAVE WASHER
19	1	09660	LIFT ADJUSTMENT INSERT
20	1	09659	LIFT ADJUSTMENT SCREW
21	1	06666	ADAPTER END
22	1	033-506	CONNECTOR STUD
23	1	09650	SHAFT EXTENSION
24	1	09673	BELLOWS
25	1	17014	SHAFT BEARING
26	1	17022	LIFT ROD ASSEMBLY
27	1	09669	MAIN COMPRESSION SPRING
28	1	09647	LIFT ASSEM. MODULE
29	1	09664	COL GUIDE BEARING
30	1	11013	CABLE, SLEEVE
31	1	07313	CABLE, 4/0 POWER
32	1	07312	CABLE, 16-4 CONTROL

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