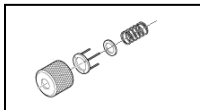


Ground Screw

Your TL driver is grounded through the driver cord to the power supply and then to the earth ground in your electrical system. An additional GROUND SCREW is provided on the housing if needed.

Changing Torque Adjusting Spring

Your TL series driver is normally supplied with the heavy torque spring in the tool when you receive it. To reach the low end torque you must replace the torque spring. Unscrew the TORQUE ADJUSTING NUT to remove the torque spring. Replace the torque spring in the tool with the torque spring from the box.



NOTE when replacing the torque spring replace the washer with the pins and the flange washer in the order as shown to the left. Failure to reassemble these parts properly may cause erratic torque readings.

Accessories For TL Series Drivers

The accessories below fit the TL series tools exclusively except where noted.



Part # 65645 Model STC-01 Screw counter. Plugs directly into a PS-55 power supply. The PS-55 with the STC-01 can also be used with all Hios CL, A and SS series Tools which would normally run with a CLT-50 power supply.



Part # 65642 angle adapter fits only TL-6500 and 1/4" hex versions of the TL-3000.

Part # 65643 vacuum adapter recommended for TL-3000 4MM tool.



Part # 65640 pistol grip fits all TL drivers. May also be used on Hios CL-4000, A-4500 and A-5000 with a minor modification.

Part # 65644 torque guard fits TL-3 and TL-6

TL Series Specifications

TL-6500 SPECIFICATIONS											
Part No.	Model No.	Torque	Drive Size	Approx. RPM On High On Low	Length	Diameter	Weight	Recommended Power Source	Power Source Part No.		
65605	TL-6500	1.5-17lb•in.	1/4" Hex	700 500	8"	1-1/8"	11.5	PS-55	65700		
65606	TL-6500ESD	1.5-17lb•in.	1/4" Hex	700 500	8"	1-1/8"	11.5	PS-55	65700		

Tools come with two torque springs. Heavy spring is silver; light spring is gold.

TL-3000 SPECIFICATIONS											
Part No.	Model No.	Torque	Drive Size	Approx. RPM On High On Low	Length	Diameter	Weight	Recommended Power Source	Power Source Part No.		
65601	TL-3000	.25-4.0lb•in.	1/4" Hex	1000 700	8"	1-1/8"	11.5	PS-55	65700		
65602	TL-3000	.25-4.0lb•in.	4 mm	1000 700	8"	1-1/8"	11.5	PS-55	65700		
65603	TL-3000ESD	.25-4.0lb•in.	1/4" Hex	1000 700	8"	1-1/8"	11.5	PS-55	65700		
65604	TL-3000ESD	.25-4.0lb•in.	4 mm	1000 700	8"	1-1/8"	11.5	PS-55	65700		

Tools come with two torque springs. Heavy spring is red; light spring is gold.

ASG Contact Information



Division of Jergens, Inc.

Jergens Way • 15700 S. Waterloo Rd. • Cleveland, OH 44110

(216) 486-6163 • Toll-Free: (888) 486-6163 • Fax: (216) 481-4519

E-mail: asginfo@asg-jergens.com

www.asg-jergens.com

DRIVER • TOOL • ACCESSORY • PART

Torq2™

PRECISION TORQUE ELECTRIC DRIVERS



TL-3000 TL-3000ESD
TL-6500 TL-6500ESD

April 2012



Thank you for choosing an ASG product. We know you had a choice of electric screwdrivers and we are pleased you chose ASG. Please read these instructions and make sure your operators understand how to operate this product properly.

OPERATING INSTRUCTIONS

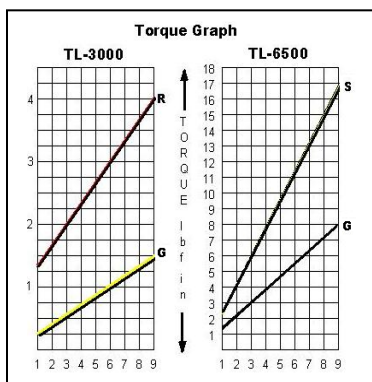
CAUTION! Never operate the tool with a damaged or frayed cord. Never operate the tool with a cracked or broken housing. Never operate the tool with a damaged power supply. Follow any local, state or national standards for proper operation of an electrical hand tool.

Guidelines

Before operating this tool, please attach a tool balancer. Tools which have been dropped will not be repaired under warranty. ASG also offers a tool “holster” which can be attached to the edge of the bench or workstation to prevent the tool from falling to the floor.

How To Set Torque

The TL series tool has a **TORQUE SCALE** on the torque adjusting bolt. This scale is a reference only. The numbers do not represent the actual torque output of the tool. The number 5 would not mean that the torque is set at 5 lbf.in. 5 is higher than 3 but lower than 7. Look at the graph for the TL-3000 below. You can see that if the tool has the red spring R fitted and the **TORQUE ADJUSTING NUT** is set at 5 (see numbers at bottom of chart) then the approximate output torque will be 2.6 lbf.in (see numbers at left of graph)



The Torque Graph to the left is meant only as an approximate guide to determining the output torque of the TL type drivers. For the most precise torque information use an ASG DTT type torque meter, or other quality torque meter designed to test power tools.

The values in the Torque Graph to the left represent output torque achieved with the PS-55 or PS-110. Power Supply set at the high setting only. Using a CLT type Power supply may result in lower torque readings.

R= Red spring **G** = Gold spring **S**= Silver spring.

NOTE the gold spring used as the light spring for TL-6500 is not the same spring as the gold spring used as the light spring in the TL-3000.

To Lock Torque Adjusting Nut

After the torque has been properly set, an optional **TORQUE GUARD** (part #65644) can be installed. Remove the **HOUSING CLAMP RING** by turning it counterclockwise. The optional torque guard is then screwed on in place of the **HOUSING JOINT RING** and covers the **TORQUE ADJUSTING NUT** to prevent tampering. A calibration sticker may be placed on the joint between the housing and the **TORQUE GUARD** to visually alert supervisors to tampering.

Important Ergonomic Information

Proper positioning of the hand on the tool produces less fatigue and strain on the wrist, hand and fingers.

Always hold the tool with the starting lever facing away from you.

Wrap your hand around the tool so that your forefinger, or “trigger finger” is on the **STARTING LEVER**. Never use your thumb to operate the trigger.

Hold the tool only firmly enough to prevent the body from spinning in your hand. Do not over-squeeze! You will get the proper feel after several cycles.

Your thumb will now be in the proper position to operate the **FORWARD REVERSE SWITCH**. This will be the most comfortable and ergonomic grip for a power tool.

How To Operate Driver



Select the proper DRIVER BIT for your fastener. Insert it in the tool by pressing the JOINT SHAFT COLLAR in and inserting the bit. Make sure the collar returns to its original position or the DRIVER BIT may not be locked in place.

Attach the cord to the 5 PIN SOCKET on the tool. Tighten the knurled locking ring on the cord. Make sure the groove on the plug body matches up with the key in the 5 PIN SOCKET. Connect the other end of the cord to the PS-55 power supply. To operate two tools simultaneously use a PS-110 power supply. **NOTE** your TL tools will also operate on existing CLT type power supplies.

Grasp the tool as described previously. Place the DRIVER BIT into the recess in the head of the fastener. **NOTE** Phillips type bits will tend to cam out so be prepared to exert enough downward pressure to keep the DRIVER BIT engaged during rundown. **NOTE** Excessive cam out may indicate either a worn bit or a mismatch between the DRIVER BIT and the fastener head recess.

Make sure the FORWARD REVERSE SWITCH is set to forward. Press the STARTING LEVER and hold it until the clutch stops the tool. The fastener is now driven to the torque preset on the tool. Do not "double click" the STARTING LEVER. **NOTE** if the tool seems to want to

"stall" rather than shut off it may indicate that the torque nut has been over tightened or that the tool is not the proper tool for the application.

To remove a fastener, place the FORWARD REVERSE SWITCH in the reverse position and press the STARTING SWITCH. **NOTE** it is normal for the tool to "ratchet" when removing a fastener.

Standard Equipment

All models supplied with; driver cord, spare set of motor brushes, SUSPENSION BAIL for tool balancer, 2 DRIVER BITS and 2 torque springs. The heavy spring will be installed in the tool. The light spring will be in a plastic bag the box.

DRIVER BITS Supplied with TL-6500 1/4" hex
1 ea. 1/4" #2 x 1-15/16" JIS Phillips bit #64508
1 ea. 1/4" #1 x 1-15/16" JIS Phillips bit #64502*

DRIVER BITS Supplied with TL-3000 1/4" hex
1 ea. 1/4" #1 x 1-15/16" JIS Phillips bit #64502*
1 ea. 1/4" #0 x 1-15/16" JIS Phillips bit #64501*

DRIVER BITS Supplied with TL-3000 4MM
1 ea. 4mm #1 x 1-15/16" JIS Phillips bit #64422*
1 ea. 4mm #0 x 1-15/16" JIS Phillips bit #64421

* Bits marked with an asterisk will be the same length and have the same Phillips point size but may be a different diameter. If you need a replacement bit identical to the bit supplied with the tool contact ASG customer service at; 888-486-6163.

Carbon Brush Replacement

New carbon brushes are approximately 1/4" long. They should be replaced when worn to approximately 1/8" long. Remove the BRUSH CAP on both sides of the tool. The STARTING LEVER will have to be removed to replace the brush on that side of the tool. **NOTE** with the brushes out of the tool it is a good idea to blow some compressed air through the opening to clean out carbon dust trapped in the motor.