

Date _____

Dear IMS Customer,

Thank you for your recent purchase of another high quality product from IMS.

Attached you will find the Product Manual that will explain product set up, installation and/or maintenance for the equipment your company purchased.

We encourage you to call our IMS Technical Service Department at 1-866-467-9001, should any problems arise.

We can be reached at 800-537-5375 for IMS Customer Service.

Thank you again for choosing IMS to fill your company's need for supplies and technology.

Sincerely,

IMS Company

Product ASG TORQUE-CONTROLLED DRIVER

Model Standard Size, Medium to Standard Torque

Part Number 129237

The ASG logo consists of the letters 'ASG' in a large, bold, serif font. A horizontal line is positioned below the letters, and a small 'TM' trademark symbol is located to the right of the 'G'.

Products for Assembly

ISO9001
QUALITY SYSTEM CERTIFIED

Operating Instructions

A vertical assembly tool is shown on the left side of the page. It features a black upper section with a silver-colored middle section and a black lower section. A silver-colored metal rod is inserted into the top. The tool has a textured grip at the bottom and a small circular opening on the side of the black lower section. The tool is shown in a vertical orientation.

**CL, SS,
Alpha &
ACL-10**
Assembly Tools
& Transformers

A solid black horizontal bar is located at the bottom right of the page.

Electronically Controlled Screwdrivers

ASGTM

Products for Assembly

Thank you for choosing an electronically-controlled driver from ASG. We know you had a choice and are pleased you chose us.

Please take a moment to read the following information. We want to be sure that you receive full value for your purchase.

Guidelines

Before operating your driver please make sure you have a tool balancer attached to it. This is very important because tools which have been dropped will not be repaired under warranty! If your particular application makes a balancer impossible, a tether should be used to prevent the tool from reaching the floor if dropped.

Important

Proper positioning produces less fatigue on the wrist and hand. To operate the tool correctly, the following steps should be taken:

1. Hold tool with starting lever facing away from you.
2. Wrap hand around tool so that forefinger is on starting lever.
3. Hold tool firmly enough to prevent it from spinning in hand. Do not over-squeeze! You will get the "feel" after a few cycles.
4. For push-to-start versions, hold the tool in the same manner, with for/rev switch facing you.

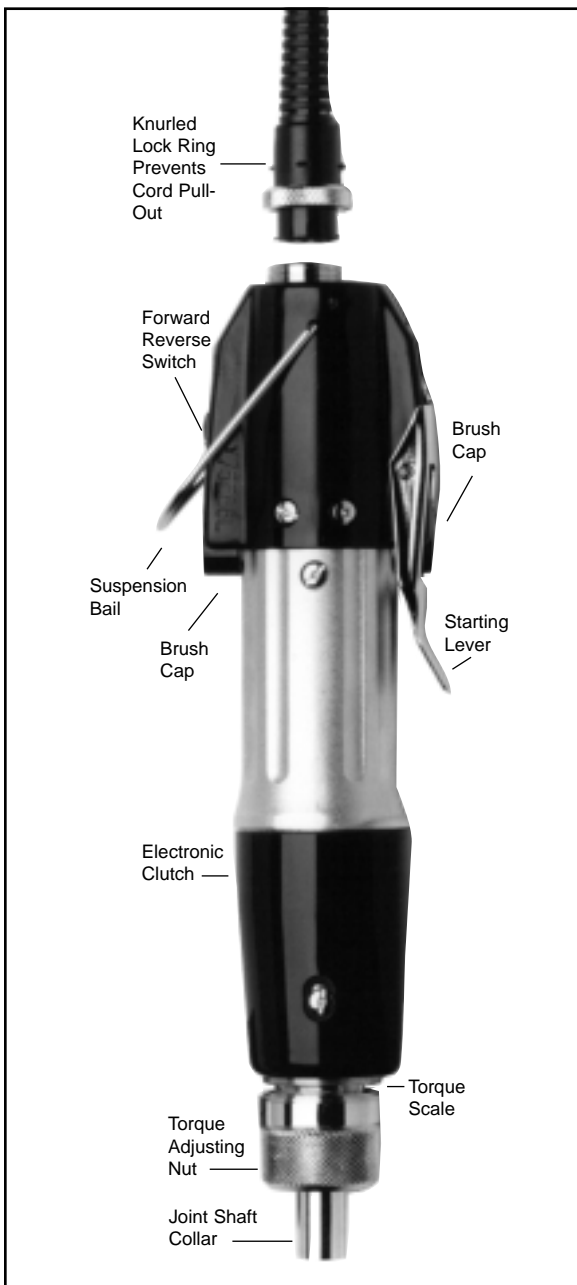
Studies have shown this position to produce the least amount of strain on the wrist and hand.

How To Operate

1. Select appropriate bit. Attach by retracting collar and inserting into the joint shaft. Make sure collar returns to its original position.
2. Attach cord to tool and tighten knurled ring. **MAKE SURE YOU HAVE MATCHED THE GROOVE ON THE PLUG WITH THE KEY IN THE SOCKET.**
3. Connect the other end of the cord to the power source you are using.

Note: ACL-10 has a power converter built into the cord.

The tool is now ready to operate. If the tool does not operate check the following:



1. ACL-10 has a 3-position forward/reverse switch. The center position is OFF. Set switch on "forward".
2. All power supplies have an indicator lamp. Be sure it is lit. Some units have an external circuit breaker button. Reset it if needed.
3. Make sure the cord has been connected properly.

To Set Torque

All CL, SS, Alpha and ACL tools have a torque scale on the torque adjusting bolt. Consult the torque chart for the specific tool to get an approximate value.

Example: Checking the chart for the CL-6500, you will see that it uses two springs to cover its torque range. If your requirement is for 8 lbf•in you will see that with the white spring, the tool must be set at #6; while with the yellow spring, a setting of #4 will work. Remember this is only an approximate setting.

For greater accuracy you may make a comparative test using a torque wrench or tester. An ASG HP-10 or HP-100 is best, but any good quality unit is acceptable.

To Lock Tool

After torque has been properly set, you may lock the torque adjusting nut. On tools with a one-piece knurled nut, remove the metal band at the upper end of the nut. You will find a M3 hole tapped in the groove below the band. Insert a M3 x 3 set screw* into the hole and tighten it. This is true for CL-6000, 6500 and 7000 and SS-6500, 7000 tools only.

On tools with a two-piece fluted nut, contact the factory for locking instructions.

**Kit available*

Standard Equipment

1/4" hex tools are supplied with:

- 1 #1 x 1-15/16" phillips bit
- 1 #2 x 1-15/16" phillips bit
- 1.215" x.038" x 1-15/16" bit
- 1 spare set of brushes
- 1 suspension bail for balancer
- 1 driver cord
- 1 additional torque spring, if tool uses 2 springs

4.0 MM bit tools are supplied with:

- 1 spare set of brushes
- 1 suspension bail for balancer
- 1 driver cord
- 1 additional torque spring, if tool uses 2 springs

In addition, depending on the tool, the following bits are supplied:

CL-2000, CL-3000	#00 and #0 x 40mm phillips bit
CL-4000	#0 and #1 x 40mm phillips bit
A-4500	#1 and #2 x 40mm phillips bit
ACL-10	#1 and #2 x 40mm phillips bit

ACL-10 includes the power converter which is part of the cord.

Torque Graph

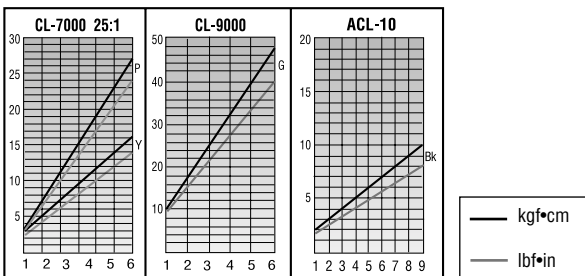
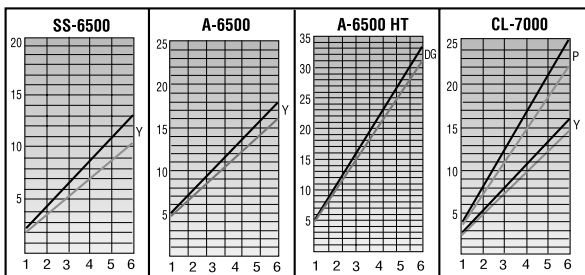
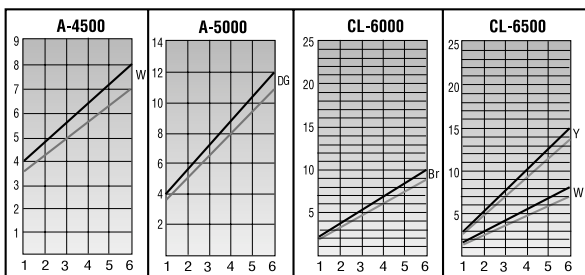
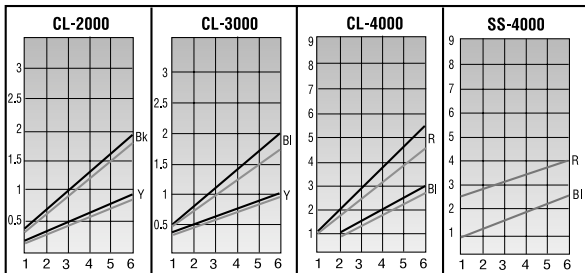
CL, SS, Alpha & ACL Series Tools

Each chart below indicates scale setting on the tool at the upper end of nut.

Color of spring - P: Purple, Y: Yellow, W: White, G: Gold

Br: Brown, R: Red, Bl: Blue, Bk: Black, DG: Dark Green

Torque ranges approximate tightening torque, operated on 30V.



Power Supplies

There are two ways to power your tool: (1) a power supply, such as the CLT-50 or CLT-100, or (2) a transformer which uses a separate control box, such as the MC-70L.

One Driver

The CLT-50 power supply operates one tool only. It has an external circuit breaker button, a high/low switch to change from 20 to 30 VDC, and an on/off switch with the indicator lamp built in.



Up to Two Drivers

The CLT-100 power supply can operate two tools. It has a high/low switch to change from 20 to 30 VDC, and an on/off switch with the indicator lamp built in.

Note: Alpha 6500 tools use the CLT-65 to achieve maximum performance. It has a higher current needed to operate the more powerful Alpha-6500 units.



Up to 20 Drivers

The MC-70L transformer is used to set up several drivers on an assembly line; 10 to 20 tools may be connected to the MC-70L depending on the current required by the tool. The MC-70L is supplied with a set of leads approximately 50' long and 10 sets of 6" leads with 20 self-stripping lap connectors. CB05 control boxes may then be attached.

Note: To use Alpha 6500 tools you must use a CB10 in place of the CB05.



Carbon Brush Replacement

New carbon brushes are approximately 1/4" long. They should be replaced when worn to 1/8". To replace, carefully remove the brush cap with a screwdriver. When reinserting the new brush make sure the concave surface is aligned with the commutator.

On CL-3000, CL-4000, SS-3000, SS-4000 and ALPHA 4500 the starting lever is held in place with a plastic hexagonally-shaped screw. After removing this screw it may be used to remove the brush cap.

The lug on the top of head fits into the slot in the brush cap.

On ACL, CL-6000, CL-6500, CL-7000, SS-6500, SS-7000, ALPHA 6500 and A-6500 HT tools, both brush caps are accessible.

Caution: *Overtightening brush caps will result in damage to the cap.*

Push-To-Start Tools

Push-To-Start tools are identical to standard tools except for the absence of the starting lever. To operate, place the bit into the head of the screw and press the tool down. Hold the tool down until it shuts off. Lift the tool and repeat on the next fastener.

Caution: *When inserting or replacing bits in Push-To-Start tools be sure to turn the power OFF at the power supply to avoid injury.*

Special Tools

Over the years we at ASG have modified tools in many different ways. We welcome the opportunity to talk to you about your special requirements.

Recommended Preventative Maintenance

- ASG recommends that assembly tools be periodically cleaned of excess carbon residue and old lubricants dependent on usage.
- Transmission gears must be periodically relubricated by a qualified technician using a moly grease.
- In order to guard against electric shock, prevent body contact with grounded surfaces, for example, but not limited to, pipes and radiators.

Note: Preventative maintenance should be performed when the motor brushes are approximately half worn (VZ and ACL Tools, 1/6"; CL Tools, 1/8"). VZ and ACL Tools must be disassembled by a qualified technician in order to insure proper cleaning.

ASGTM

Products for Assembly

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