



ASG-SD2500

ASG-SD2500 Series Screwdrivers

User's Guide

Version 1.0.1

October, 2010

ASG Precision Fastening ASG-SD2500 Series Screwdrivers User's Guide

Version 1.0.1

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To download the latest version of this manual visit:

www.asgprecisionfastening.com

ASG Precision Fastening

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Table of Contents

Safety Precautions.....	4
Introduction.....	5
Installation.....	6
Functions.....	7
Operation.....	8
Forward/Reverse.....	8
Changing Bits.....	8
Triggering.....	8
Trigger Sensitivity.....	9
Pistol Grip Assembly.....	10
Tool Calibration.....	11
Service & Warranty.....	12
Available Accessories.....	13

Safety Precautions



Be sure to read all instructions and precautions contained in this manual, failure to do so may result in personal injury and/or damage to tooling and components.



Do not operate or plug in the controller/system with wet hands or in wet environments. Failure to observe this may result in injury due to electric shock.



Ensure the controller is properly plugged in to a grounded electrical receptacle. Do not remove the ground pin or use any adapter plugs.



Always shut down the controller when changing cables or tools. Failure to do so could damage the tool or controller.



Keep work area clear of clutter and distractions that may cause the operator to lose control of the tool or the components.



Tool cable must be properly routed and festooned to avoid tangling and trip hazards.



Always use safety glasses when using electrical assembly tools.



Do not use any part of the system (tool, cable, or controller) for anything other than its specified application. Use of the system or its components for unintended applications could result in injury to the operator, failure of the system, and could void the warranty.

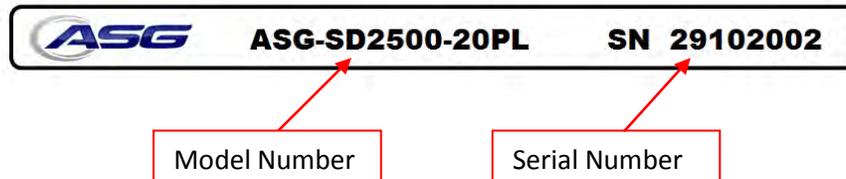


Never modify or disassemble any component of the system. Modification or disassembly of the system could result in injury and void the warranty.

Introduction

Thank you for investing in a ASG-SD2500 Series Screwdriver from ASG Precision Fastening! This User's Guide will assist you with set-up and operation of your tool.

Please start by finding the serial number label on the the tool.



Take note of the model number and serial number and record it below with your date of purchase. This information will be necessary should any service be required in the future.

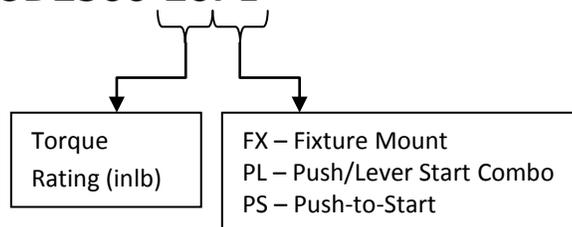
Model Number: _____

Serial Number: _____

Date of Purchase: _____

Tool Model Number Key

ASG-SD2500-20PL

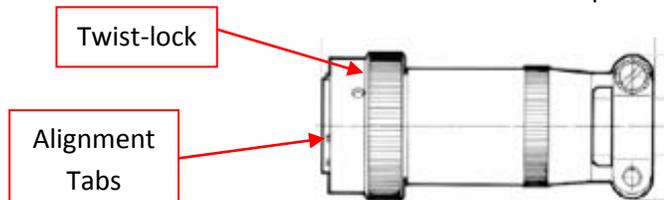


Installation

Installation of the ASG-SD2500 is very straightforward. Follow these steps to connect the tool to your system for the first time:

Tool Installation:

Connect the tool cable to the connector on the bottom of the controller by identifying the alignment tabs in the large cable connector. Align these tabs and insert the cable to the controller, then rotate the twist-lock on the cable connector clockwise until it *clicks* into place.



Note: To remove the cable from the controller, rotate the twist-lock on the cable connector counter-clockwise until it pops free, and then remove the cable from the controller.

Obtain the ASG-SD2500 tool and identify the slot on the screwdriver connector into which the screwdriver cable plugs. Find the red dot on the small end of the cable, and align it to the slot in the screwdriver connector. Insert the cable to the tool firmly until it *clicks* into place.



Note: To remove the cable from the tool, slide the grip of the cable connector away from the tool, then pull the cable out of the tool.

Connect the controller to the power source and power-up the controller.

Functions

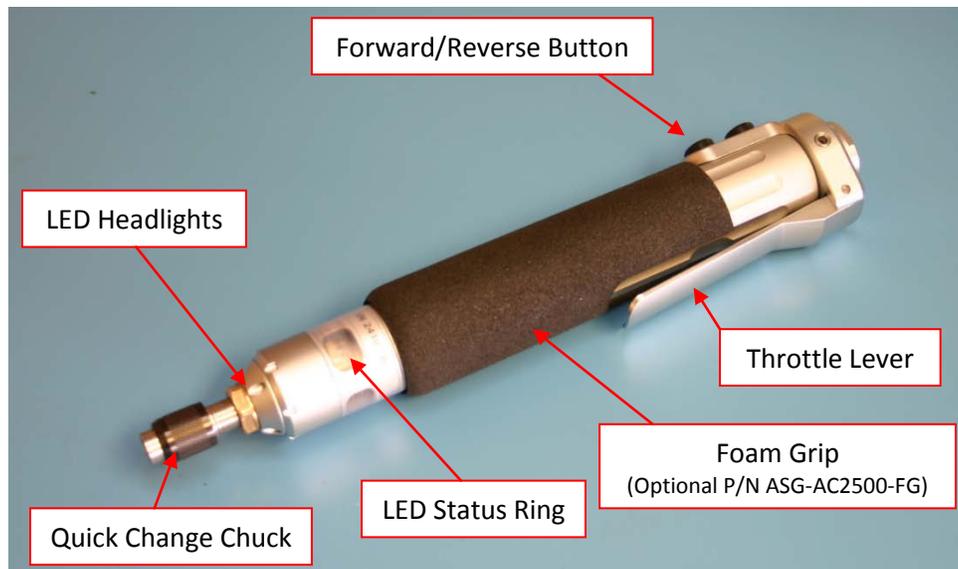
All ASG-SD2500 Screwdrivers are of light-weight aluminum construction and come standard in the inline configuration, with optional pistol grip and lever triggers.

Standard Features:

- Forward/Reverse Button
- LED Status Ring – indicates torque/angle high, low, or pass
- High Intensity LED Headlights (not present on fixture mount models)
- Push-to-Start triggering
- ¼" Hex Quick-Change Chuck
- Suspension Bail

Optional Features:

- Throttle Lever
- Fixture Mount Body



All ASG-SD2500 Series Screwdrivers have programmable internal memory that contains configuration information from the factory. It will identify itself to the controller and provide the following information:

- Tool Model Number
- Tool Serial Number
- Cycles Completed
- Maximum Torque
- Maximum Speed
- Gear Ratio
- Calibration Value

Operation

First-time users should take some time to become familiar with the ASG-SD2500 prior to use. With the power to the controller off, cycle the lever and push-to-start spindle to become accustomed to the feel and resistance. Repeat this step with the controller power on, to feel the operation of the tool.

Forward/Reverse

Depress and release the forward/reverse button on the tool to switch between forward (RH rotation) and reverse (LH rotation). A straightforward way to know which mode the tool is in is that if the LED headlights are on, the tool is in forward. If the headlights are off, the tool is in reverse.

Changing Bits

Bits can be changed easily through the use of the Quick-Change Chuck that comes standard with the ASG-SD2500 Screwdriver.

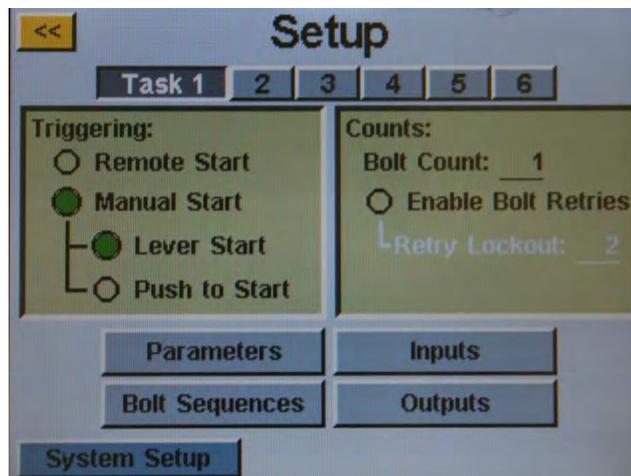
To insert a bit: Align the bit's hex end into the spindle opening. Grasp the black collar on the quick change chuck and push it away from the tool towards the bit. Apply pressure to the bit until it *clicks* into place. Release the black collar and gently pull on the bit to ensure it is seated and locked into place.



Use only ¼" Hex Drive Bits with your ASG-SD2500 Screwdriver. Contact ASG Precision Fastening at (888) 486-6163 to hear about our extensive bit selection.

Triggering

The ASG-SD2500 has 3 triggering options: Push-to-Start, Lever Start, and Remote Start. To switch between these options in the ASG-CT2500 controller, select the desired triggering from the 'Setup' screen for each task.



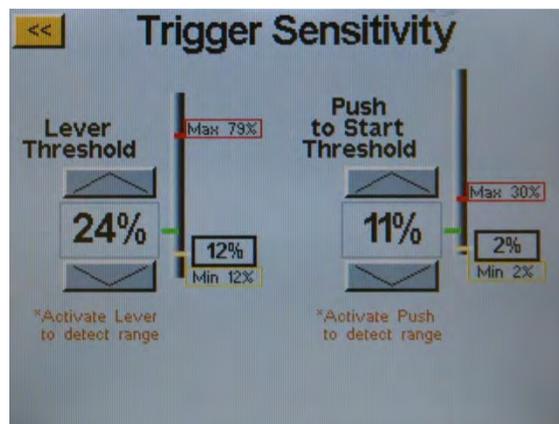
When using Remote Start triggering, there is further configuration required under the 'Inputs' screen. Refer to the ASG-CT2500 User's Guide for further programming instructions.



Note: Each task in the CT2500 can be set up to trigger the tool in different ways, therefore triggering must be set up in each task being used.

Trigger Sensitivity

The ASG-CT2500 controller allows the user to set the sensitivity of both the Push-to-Start and the Lever Start (when equipped) features of the ASG-SD2500 tool to suit individual user or application preferences. To adjust these settings, tap the 'Tool Trig Sensitivity' button on the 'System' screen.



On the 'Trigger Sensitivity' screen there are two slider bars, one for the Lever, and one for the Push-to-Start. On each slider there is the following:

- Yellow bar – shows the minimum trigger reading
- Red bar – shows the maximum trigger reading
- White bar – shows the current trigger reading
- Green bar - shows the trigger reading threshold

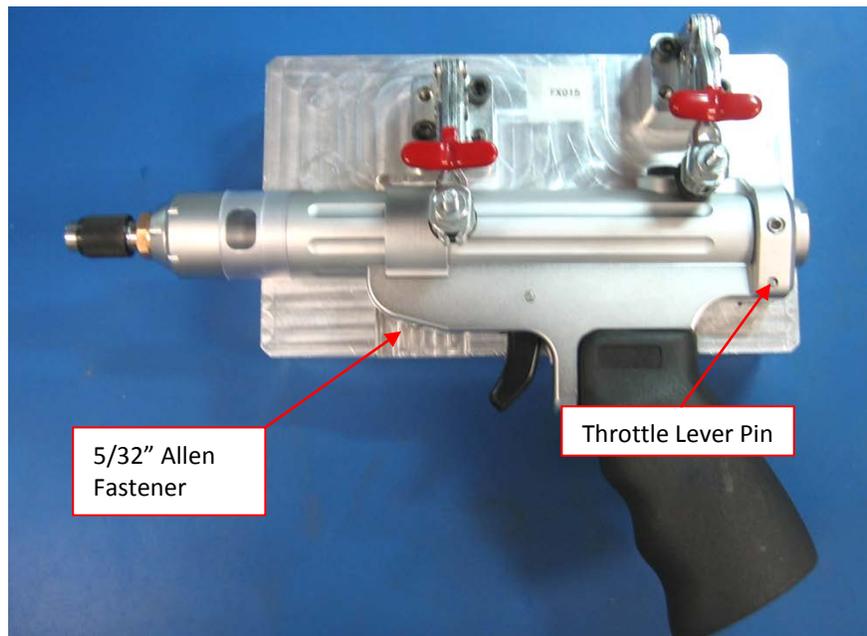
To adjust the threshold, use the up and down arrow keys to move the green bar up or down the slider. To test, push the lever or pull chuck to move the white bar up to the green threshold bar and verify the tool begins to run when desired.

Pistol Grip Assembly

Should the application require it, ASG Precision Fastening offers an optional Pistol Grip Assembly (P/N ASG-AC2500-PG) for sale.

To Install:

- Ensure the screwdriver cable is removed from the tool
- Use a 5/32" punch to drive out the throttle lever pin that attaches the throttle lever to the screwdriver
- Remove the throttle lever and spring from the tool (save these pieces to use at a later time to convert the tool back to the In-Line configuration)
- Slide the screwdriver into the pistol grip assembly with the forward/reverse buttons facing directly opposite the handle
- Position the heel of the pistol grip to the tool where the throttle lever was just removed and align the holes
- Re-insert the throttle lever pin to the tool through the pistol grip heel, carefully drive it into place so that the pin is below the surface of the tool
- Use a 5/32" allen wrench to tighten the fastener by the trigger until it is secure



Tool Calibration

The ASG-SD2500 arrives calibrated from the factory with a certificate of calibration. The Calibration Value of the tool is stored in the internal memory and also listed on the certificate should the user require it for future reference.

Since every application is different, the need to recalibrate a tool will be based on the tool use, environment, care, and local quality procedures. Should the user feel a recalibration is required contact ASG Precision Fastening at (888) 486-6163 or email us at service@asg-jergens.com



Caution: Changing the Calibration Value should only be performed by qualified calibration technicians. Improperly changing the calibration value of the tool could lead to inaccurate torque readings, potential tool damage, and void the warranty.

Service & Warranty

Service

Should a product need to be returned for any reason, please contact ASG for a return authorization number prior to shipping an item for repair. Call us at (888) 486-6163 or email us at service@asg-jergens.com

- No items will be received without prior authorization
- Be sure to include a brief description of the problem, your company name, address, phone number and contact name
- An ASG technician will contact you with a quotation and information regarding your repair

Warranty

ASG Precision Fastening warrants to the original purchaser buying an ASG-SD2500 product with the intention of use rather than for resale, for a period of one (1) year from the first in-service date or one million (1,000,000) cycles.

Within the warranty period, ASG Precision Fastening will replace or repair those items found to be defective or otherwise fail to conform. The buyer's remedies with respect to any item found to be defective or otherwise not conforming shall be limited EXCLUSIVELY to the right of replacement. In no event shall ASG be liable for any incidental special or consequential damages or for damages in the nature of penalties.

Disclaimer: Seller makes no other warranty whatever, expressed or implied, and all implied warranties of merchantability and fitness for a particular purpose are disclaimed and excluded from this transaction and shall not apply to the goods sold hereunder.

Available Accessories

ASG Precision Fastening offers a range of accessories to the ASG-SD2500 Screwdrivers and ASG-CT2500 Controller see the table below for a complete list.

To order, contact Customer Service at (888) 486-6163.

Tools

ASG Part #	Description
ASG-SD2500-10PL	10 in.lb Push/Lever Start Combo Tool
ASG-SD2500-20PL	20 in.lb Push/Lever Start Combo Tool
ASG-SD2500-35PL	35 in.lb Push/Lever Start Combo Tool
ASG-SD2500-50PL	50 in.lb Push/Lever Start Combo Tool
ASG-SD2500-10PS	10 in.lb Push Start Tool
ASG-SD2500-20PS	20 in.lb Push Start Tool
ASG-SD2500-35PS	35 in.lb Push Start Tool
ASG-SD2500-50PS	50 in.lb Push Start Tool
ASG-SD2500-10FX	10 in.lb Fixture Mount Tool
ASG-SD2500-20FX	20 in.lb Fixture Mount Tool
ASG-SD2500-35FX	35 in.lb Fixture Mount Tool
ASG-SD2500-50FX	50 in.lb Fixture Mount Tool

Heavy-Weight Cables

ASG Part #	Description
ASG-CB2500-05HW	5 ft Screwdriver to Controller Cable w/Heavy Weight Connector
ASG-CB2500-10HW	10 ft Screwdriver to Controller Cable w/Heavy Weight Connector
ASG-CB2500-15HW	15 ft Screwdriver to Controller Cable w/Heavy Weight Connector
ASG-CB2500-20HW	20 ft Screwdriver to Controller Cable w/Heavy Weight Connector
ASG-CB2500-25HW	25 ft Screwdriver to Controller Cable w/Heavy Weight Connector
ASG-CB2500-30HW	30 ft Screwdriver to Controller Cable w/Heavy Weight Connector
ASG-CB2500-35HW	35 ft Screwdriver to Controller Cable w/Heavy Weight Connector
ASG-CB2500-40HW	40 ft Screwdriver to Controller Cable w/Heavy Weight Connector
ASG-CB2500-45HW	45 ft Screwdriver to Controller Cable w/Heavy Weight Connector
ASG-CB2500-50HW	50 ft Screwdriver to Controller Cable w/Heavy Weight Connector

Right Angle Cables

ASG Part #	Description
ASG-CB2500-05RA	5 ft Screwdriver to Controller Cable w/Right Angle Connector
ASG-CB2500-10RA	10 ft Screwdriver to Controller Cable w/Right Angle Connector
ASG-CB2500-15RA	15 ft Screwdriver to Controller Cable w/Right Angle Connector
ASG-CB2500-20RA	20 ft Screwdriver to Controller Cable w/Right Angle Connector
ASG-CB2500-25RA	25 ft Screwdriver to Controller Cable w/Right Angle Connector
ASG-CB2500-30RA	30 ft Screwdriver to Controller Cable w/Right Angle Connector
ASG-CB2500-35RA	35 ft Screwdriver to Controller Cable w/Right Angle Connector
ASG-CB2500-40RA	40 ft Screwdriver to Controller Cable w/Right Angle Connector
ASG-CB2500-45RA	45 ft Screwdriver to Controller Cable w/Right Angle Connector
ASG-CB2500-50RA	50 ft Screwdriver to Controller Cable w/Right Angle Connector

Extension Cables

ASG Part #	Description
ASG-CB2500-20EX	20 ft Controller Cable Extension Cable
ASG-CB2500-30EX	30 ft Controller Cable Extension Cable
ASG-CB2500-50EX	50 ft Controller Cable Extension Cable
ASG-CB2500-70EX	70 ft Controller Cable Extension Cable

Optional Accessories

ASG Part #	Description
ASG-AC2500-FG	Foam grip for In-line SD2500 Screwdriver
ASG-AC2500-FGNC	Foam grip for In-line SD2500 Screwdriver w/no cutout
ASG-AC2500-PG	Pistol grip attachment for In-line SD2500 Screwdriver
ASG-AC2500-SB	Suspension bail for all SD2500 Screwdriver
ASG-AC2500-MPDF	Mounting plate, double flange (fixture tools)
ASG-AC2500-MPSF	Mounting plate, single flange (fixture tools)
ASG-AC2500-SPEX	Spindle Unit Extended
ASG-AC2500-SP	Spindle Unit
ASG-AC2500-IC20	CT2500 Controller Input Cable - 20ft
ASG-AC2500-OC20	CT2500 Controller Output Cable - 20ft
ASG-AC2500-BT4	CT2500 Controller 4-position Bit Tray
ASG-AC2500-BT6	CT2500 Controller 6-position Bit Tray

Replacement Parts

ASG Part #	Description
MTQ10057	Push to Start Spring
MTQ10090	Throttle Lever Assembly
MTQ10061	Throttle Lever Spring
MTQ10062	Throttle Lever Block
MTQ10026	Throttle Lever/Block Pin

Networking Modules

ASG Part #	Description
ASG-NW2500-PFCS	PFCS-Chrysler
ASG-NW2500-ACOP	ACOP
ASG-NW2500-DN	DeviceNet
ASG-NW2500-EIP	Ethernet IP