



## TLB-C Brushless Electric Screwdrivers

- Read these instructions for the proper use of the tool.
- After having read these instructions, keep them in a convenient place so you or the operator can refer to them whenever necessary.

**PLEASE NOTE: When repairing or replacing tools or components on any TLB Series purchased in 2016 or prior, please contact ASG representative**

## Table of Contents

Overview .....	1
General Safety Rules.....	2
Safety Instructions .....	2
Description of Operation.....	3
Grounding Instructions .....	3
Installation Instructions .....	3
Torque Adjustment Operation .....	3
Servicing .....	4
Warranty .....	4
Product Specifications .....	5

## Overview

Thank you very much for selecting the TLB-C Brushless Electric Screwdriver.

**⚠ WARNING** Read this manual before placing tool in service or operation. Save these instructions for future reference. It is the responsibility of the employer to place the information in this manual into the hands of the operator. Failure to observe the following warnings could result in injury. When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury.

**Note:** ASG is not responsible for customer modification of tools for applications on which ASG was not consulted.

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## General Safety Rules

### Electrical Safety

- Keep work area clean and well lit.
- Electric screwdriver plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) electric screwdrivers. These precautions will reduce the risk of electric shock.
- Do not expose an electric screwdriver to rain or wet conditions as this will increase the risk of electric shock.
- Never use the cord to carry, pull, or unplug the electric screwdriver. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

### Personal Safety

- Stay alert and pay attention to your surroundings when operating an electric screwdriver. Do not use an electric screwdriver while you are tired or under the influence of drugs, alcohol, or medication, as this could result in serious personal injury.
- Ensure the switch is in the off position before plugging in to avoid accidental starting.
- Keep proper footing and balance at all times.

### Electrical Screwdriver Use and Care

- Use the correct electric screwdriver and power supply for your application.
- Do not use an electric screwdriver if the switch is broken. Any electric screwdriver that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the electric screwdriver. Such preventive safety measures reduce the risk of starting the electric screwdriver accidentally.
- Keep out of reach of children and untrained personnel. Electric screwdrivers are dangerous in the hands of untrained users.

## General Safety Rules (Continued)

### Service

- Have your electric screwdriver serviced by ASG. This will ensure that the safety and quality of the electric screwdriver is maintained.

## Safety Instructions


- Make sure the switch is in the OFF position and tool is unplugged when changing a bit
- Do not allow chemicals such as acetone, benzene, thinner, trichloroethylene ketone, or other similar chemicals to come in contact with the screwdriver housing as damage will result.
- Do not drop or misuse the screwdriver.
- Do not adjust the torque setting higher than 8 on the torque scale.
- There should be a tool rest interval for cycles of three seconds or longer. This tool is intended for a duty cycle of 0.8 seconds on, 3.2 seconds off.
- Do not tighten more than 800 tapping screws (size: 3mm. Length: 5mm) per hour.
- Do not use this screwdriver for tightening wood screws.
- Do not operate the Forward/Reverse Switch while the motor is running.
- Turn the switch to the OFF position and unplug the screwdriver and power supply when the tool is not in use
- Always grasp the plug of the power cord when plugging in/unplugging.
- Always secure the power supply to avoid movement.
- If the power supply overheats or is overloaded with maximum current rating, the high-speed fuse will cut off the power. If this situation continues, stop operation immediately and contact ASG for repair.
- Do not disassemble the electric screwdriver or try to repair it yourself.



## Description of Operation

### Inserting/Removing Bit and Bit Type

- Push up the holder clamp to unlock it. Thus, the bit can be freely attached and detached.
- Insert the power plug into a receptacle and set the switch to "F" (forward position)
- Apply the bit to the screw head and either press the lever or push to start the tool. The switch will be turned ON to start the motor running.
- When the screw is tightened and reaches the torque that you had set, the tool will stop automatically.
- To reverse the screw, set the changeover switch to "R" (reverse position).

 **WARNING** Do not operate this tool without protective earth connected

## Grounding Instructions

The tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with a three-conductor cord and three-prong grounding-type plug to fit the proper grounding-type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. **Never connect the green (or green and yellow) wire to a live terminal.**

Green and Yellow	Earth
Blue	Neutral
Brown	Live

## Installation Instructions

- Use the power supply voltage recommended in the specification of this manual.
- When using a commercial power supply be sure to set up circuit and safety breakers. You must also properly ground the mechanisms.
- The temperature and humidity should be kept at appropriate levels.
- Do not set up the power supply in a room that has poor ventilation and where it may be exposed to dust and metallic particles.
- Do not put anything on top of power supply
- Attach the power supply securely to a flat, stable surface.
- Do not permit unauthorized personnel to operate this power supply or electric screwdriver.
- Do not set up the power supply near any high voltage machinery
- Avoid setting up or storing the power supply in wet or oily environments or where it might be exposed to corrosive or flammable gases.

## Torque Adjustment Operation


- Determine the torque output of the tool by checking a tightened fastener with a torque tester such as the ASG DTT or DTT-L.
- Increase or decrease the torque by rotating the Spring Adjusting Ring. Rotating the ring clockwise to a higher number on the torque scale increases torque output while rotating the ring counterclockwise to a lower number decreases the torque output.
- Continue to check the adjustment with a torque tester until you are satisfied with the torque output. If you are making final torque adjustments on line, always start below the desired torque and work upward.
- The torque scale on the tool goes from 0 to 8. Only the even numbers appear: 2,4,6, and 8. This is not the actual torque the tool is going to produce. The numbers on the scale are only a point of reference.



## Serviceing

### Maintenance and Inspection

- Do not use the tool more than 8 hours a day.
- Check for carbon brush wear. We recommend replacing the brushes based on use.
- Do not let the motor and power supply get over heated. Do not run more than 10-15 screws/minute.
- If you use the tool more than 8 hours a day, have the tool evaluated for preventative maintenance.
- Inspect tool cords periodically. If damaged, contact ASG.
- Do not remove any labels.

 **WARNING** Using non-ASG replacement parts may result in decreased tool performance and increased maintenance and may void all warranties.

All repairs and maintenance of this tool must be performed by ASG

ASG is not responsible for customer modification of tools for applications on which ASG was not consulted.

It is the responsibility of the employer to place the information in this manual into the hands of the operator.

**DO NOT ATTEMPT TO REPAIR THIS ELECTRIC SCREWDRIVER  
SAVE THESE INSTRUCTIONS - DO NOT DESTROY**

## Warranty

The warranty is 1 year after delivery. If any troubles should occur, please contact ASG. In the following cases, the purchaser shall pay for parts and labor regardless of the terms of warranty:

- Failure due to improper handling.
- Failure due to product modification or improper processing.
- Failure due to causes beyond control (for example earthquake or fire).
- Consumables, replaceable parts, and replacement work expenses.

**PLEASE NOTE: When repairing or replacing tools or components on any TLB Series purchased in 2016 or prior, please contact ASG representative**



## Product Specifications

Model Number	ASG Number	Input Voltage	Power Consumption	Torque		Speed/RPM		Weight		Length		Power Supply		
				lbf.in	N.m	HI	LO	lb	g	in.	mm	Standard Power Supply	OR	Counting Power Supply
TLB-C203LS	68689	DC 24V or 32V	25W	0.18 - 3.0	0.02 - 0.34	370	260	0.8	400	8.1	205	TLB-PS61 (ASG #68634)	OR	TLB-PS61C (ASG #68632)
TLB-C210L	68608	DC 24V or 32V	25W	0.9 - 8.7	0.1 - 0.98	1000	700	0.8	400	8.1	205	TLB-PS61 (ASG #68634)	OR	TLB-PS61C (ASG #68632)
TLB-C412L	68609	DC 24V or 32V	55W	1.32 - 10.4	0.15 - 1.18	1000	700	1.2	540	9.4	240	TLB-PS61 (ASG #68634)	OR	TLB-PS61C (ASG #68632)
TLB-C412PH	68610	DC 24V or 32V	55W	1.8 - 10.4	0.2 - 1.18	2000	1400	1.2	540	9.4	240	TLB-PS61 (ASG #68634)	OR	TLB-PS61C (ASG #68632)
TLB-C419L	68621	DC 24V or 32V	55W	2.6 - 16.5	0.29 - 1.86	1000	700	1.2	540	9.4	240	TLB-PS61 (ASG #68634)	OR	TLB-PS61C (ASG #68632)
TLB-C419P	68622	DC 24V or 32V	55W	2.6 - 16.5	0.29 - 1.86	1000	700	1.2	540	9.4	240	TLB-PS61 (ASG #68634)	OR	TLB-PS61C (ASG #68632)
TLB-C630L	68673	DC 40V	90W	8.7 - 26.0	0.98 - 2.94	1000	750	1.8	800	10.8	275	TLB-PS801 (ASG #68638)	OR	TLB-PS801C (ASG #68639)
TLB-C630P	68674	DC 40V	90W	8.7 - 26.0	0.98 - 2.94	1000	750	1.8	800	10.8	275	TLB-PS801 (ASG #68638)	OR	TLB-PS801C (ASG #68639)
TLB-C960PG	68686	DC 40V	100W	17.7 - 53.1	2.0 - 6.0	1000	750	2.8	1250	10.8 x 6.2	274 x 157	TLB-PS801 (ASG #68638)	OR	TLB-PS801C (ASG #68639)
TLB-C990PG	68687	DC 40V	120W	26.6 - 79.7	3.0 - 9.0	800	600	2.7	1250	10.8 x 6.2	274 x 157	TLB-PS801 (ASG #68638)	OR	TLB-PS801C (ASG #68639)
TLB-C990L	68682	DC 40V	120W	26.6 - 79.7	3.0 - 9.0	800	600	2.6	1200	11.7	298	TLB-PS801 (ASG #68638)	OR	TLB-PS801C (ASG #68639)
TLB-C990P	68683	DC 40V	120W	26.6 - 79.7	3.0 - 9.0	800	600	2.6	1200	11.7	298	TLB-PS801 (ASG #68638)	OR	TLB-PS801C (ASG #68639)
TLB-C9120L	68684	DC 40V	120W	35.4 - 106.2	4.0 - 12.0	550	410	2.6	1200	11.7	298	TLB-PS801 (ASG #68638)	OR	TLB-PS801C (ASG #68639)
TLB-C9120P	68685	DC 40V	120W	35.4 - 106.2	4.0 - 12.0	550	410	2.6	1200	11.7	298	TLB-PS801 (ASG #68638)	OR	TLB-PS801C (ASG #68639)
TLB-C9180PGW	68688	DC 40V	150W	53.1 - 159.3	6.0 - 18.0	350	260	2.8	1250	10.8 x 6.2	274 x 157	TLB-PS801 (ASG #68638)	OR	TLB-PS801C (ASG #68639)
TLB-C9180PW	68691	DC 40V	200W	53.1 - 159.3	6.0 - 18.0	350	260	2.6	1200	11.7	298	TLB-PS801 (ASG #68638)	OR	TLB-PS801C (ASG #68639)
TLB-C9180LW	68692	DC 40V	200W	53.1 - 159.3	6.0 - 18.0	350	260	2.6	1200	11.7	298	TLB-PS801 (ASG #68638)	OR	TLB-PS801C (ASG #68639)
<b>ESD Safe Models</b>														
TLB-C203L-ESD	68670	DC 24V or 32V	25W	0.18 - 3.0	0.02 - 0.34	370	260	0.8	400	8.1	205	TLB-PS61 (ASG #68634)	OR	TLB-PS61C (ASG #68632)
TLB-419L-ESD	68671	DC 24V or 32V	55W	2.6 - 16.5	0.29 - 1.86	1000	700	1.2	540	9.4	240	TLB-PS61 (ASG #68634)	OR	TLB-PS61C (ASG #68632)
TLB-C419P-ESD	68672	DC 24V or 32V	55W	2.6 - 16.5	0.29 - 1.86	1000	700	1.2	540	9.4	240	TLB-PS61 (ASG #68634)	OR	TLB-PS61C (ASG #68632)