

## Features and Benefits

- **Starting Mode Adjustable:** The ASG BTL-20 and BTL-30 can switch starting mode between Lever Start and Push-to-Start. This design increases the flexibility on the use of the ASG BTL series electric screwdrivers and makes them suitable for every kind of working environment.
- **RPM Adjustable, Full Torque Output under Low RPM:** The BTL-20 and BTL-30 are speed adjustable electric screwdrivers. The RPM is stepless and adjustable between 100 RPM and 950 RPM to meet the working requirements. The BTL-20 and BTL-30 provide full torque output even under low RPM operation. Please note that when operating under 300 RPM, the max torque output of the BTL-30 will be less than 2 N.m (17.7 lbf.in).
- **Ground Impedance of Bits < 1.0Ω:** Accurate electronics assembly requires extremely high ESD protection. The ASG BTL series mini electric screwdrivers adopt the unique interior ring grounding approach, which enable the contact area of rotary shaft of the bits and grounding end constantly remains 290mm<sup>2</sup>. Therefore, with the special designed structure, the BTL-20 and BTL-30 screwdrivers can remain their grounding impedance of bits < 1.0Ω for long period of operation (about 5000 hours).
- **Compatible with Screw Counter:** ASG BTL-20 and BTL-30 brushless electric screwdrivers are only compatible with the ASG BTL-5A switching power supply. With the BTL-5A, the BTL-20 and BTL-30 are also compatible with the STC-02 screw counter.



ASG STC-02 (ASG #65646)

- Stable and accurate torque output
- Low failure rate

## BTL-20 and BTL-30 Specifications

Model	BTL-20	BTL-30
Rated Voltage	DC 30V	DC 30V
Torque Range	0.3 - 2.0 N.m	0.5 - 3.0
	2.7 - 17.7	4.4 - 26.6
Torque Accuracy	± 3%	
Torque Adjusting Mode	Stepless	
Starting Mode	Lever/Push-to-Start	
No Load RPM	100 - 950 RPM	
Weight	1.6 lb (720 g)	
Length	11.4 in. (290 mm)	
Applicable Screw Range	2.0 - 5.0 mm	
Applicable Bits	1/4" Hex	
Power Supply	BTL-5A	

BTL-20/BTL-30 Speed RPM adjustable from 100 RPM to 950 RPM. Please note whenever the RPM is greater than 300, the max torque output is no larger than 2 N.m (17.7 lbf.in).

## BTL-20 and BTL-30 Specifications

Please use the ASG BTL-5A to ensure precise torque and prevent danger.

Model	ASG BTL-5A
Input Voltage	AC 90-240V 50/60 Hz
Output Voltage	DC 25V/30V/9V LOW/HI 2 Level to Switch
Dimensions	3.4 x 6.6 x 2.2 in
	86.5 x 168 x 55.5 mm
Weight	1.5 lb (660 g)
Length of Cord	5.9 ft (1.8m)
For Use With	ASG BTL-05, BTL-10, BTL-15, BTL-20, BTL-30

BTL-20 and BTL-30 can only use output voltage HI:24V

# Electric Screwdrivers BTL-20 and BTL-30

## Instruction Manual



**Please Read Instructions  
Before Operating**

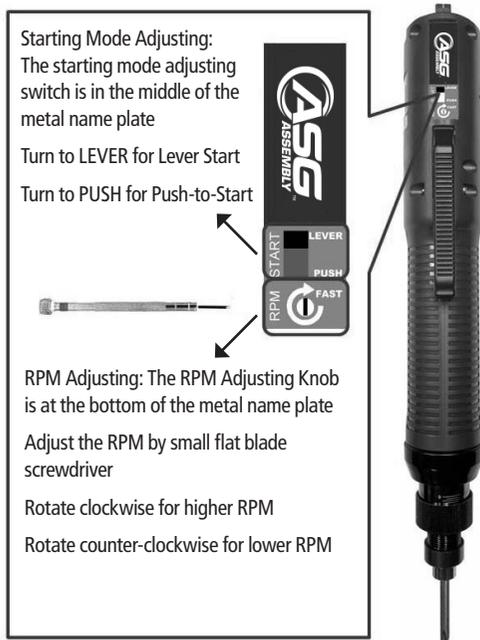
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## Instruction of Parts



## BTL-20 and BTL-30 Starting Mode/RPM Adjustment



## Operating Instructions

1. When working with torque larger than 2 N.m (17.7 lbf.in), please adjust RPM to less than 650 for safety purposes.
2. Make sure the power is switched off to install or replace the screwdriver bit. Pressing the front-end iron cap will allow the screwdriver bit to be inserted or released.
3. It is recommended to suspend the electric screwdriver from a balancer for easy operation.
4. Adjust the torque dial to the proper position according to the dial/torque table for each model.
5. Press the **Forward** switch to fasten the screw. The automatic control model will shut off the power and stop the rotation of the screwdriver bit as soon as the set torque value is reached.
6. Press the **Reverse** switch to loosen the screw.
7. Hold and keep the screwdriver and screw in a perpendicular position with the work surface and apply pressure slightly to prevent slipping.
8. Operate the electrical power screwdriver safely.
9. Do not press the **Forward/Reverse** switch at the same time to prevent the short-circuit of the switch.
10. Use it under the normal operation frequency (8 working hours per day and fastening 800-1000 screws per hour) without exceeding the operation load will extend the life time of the electric screwdriver and reduce the occurrences of malfunction.
11. Please do not fasten wood screws.

## Regular Maintenances

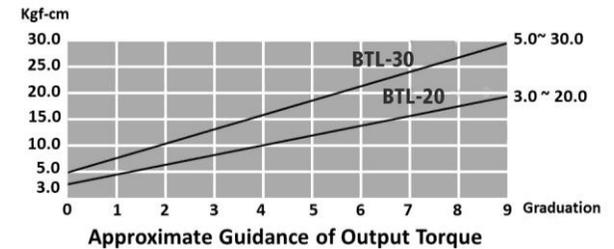
Check whether all the parts, housing, and power lines are in-tact at all times to ensure normal operations. Unplug the power plug and turn off the power before doing any maintenance operation to ensure safety. Provide preventative maintenance for every 1000 hours of operation. Contact the ASG Service Department.

### CAUTION:

- This electric screwdriver is designed for indoor use only. Please do not use it in outdoors or wet environment to prevent the danger of electrocution.
- Pay attention to the voltage specification. Make sure the switch is in the OFF position when you plug in the power.
- Do not disassemble the device.

## Output Torque/Adjust Dial

1. User can adjust output torque by changing the torque spring. Please refer to the torque/dial table and then turn the torque adjusting nut to set the proper dial for each model and set to the desired torque for operations.



## ASG BTL-20 and BTL-30 Torque Adjusting

- Please refer to the Output Torque/Adjust Dial table above to adjust the working torque output.
- The torque scale is relative but not absolute.
- To ensure the absolute correct torque output, please periodically use a torque tester to check and confirm the torque output of the screwdrivers. ASG recommends the ASG DTT Series digital torque testers.