

# Transformers

## Power Supplies for DC Electric Screwdrivers



### STC30 TRANSFORMER (Built-in Controller)

Selectable output voltage.

Over Heat Protection (OHP) and Over Current Protection (OCP) protect driver from damage or malfunction.

Temperature Detection powers down the unit and resets automatically when unit restores to acceptable levels.

Switchable 110 & 230V input voltage. Unit will reset if motor/current is too high.

Start and Stop Signal Output (for PLC).

Selectable Soft Start (from 0.2 - 0.6 seconds).

Selectable Double Hit mode for soft joint applications.

Screwdriver lock Signal Input (for PLC).

Unit can be connected to the Scout (Screw Counter).

Model: STC30 Plus v4.3

Item #145683

FOR DRIVER MODELS:  
A4500 - 5000  
CL2000 - 7000  
EF030 - 180  
K250 - 450

Model: STC30 Plus v4.3

Item #145684

FOR DRIVER MODELS:  
SS2000 - 7000\*

\*Note - Also the ESD-Series models on page 01.14

Rated Output: 2.5A

Max. Output: 5A

Fuse: 6.3A

Break: -

Output VDC: 20 / 30 or 30 / 38

Input VAC: 110 / 230

Size (WxDxH): 4 3/8" x 7 1/2" x 2 3/8"

Weight (lbs.): 1.8

RoHS



### STC40 TRANSFORMER (Built-in Controller)

Selectable output voltage.

Over Heat Protection (OHP) and Over Current Protection (OCP) protect driver from damage or malfunction.

Temperature Detection powers down the unit and resets automatically when unit restores to acceptable levels.

Switchable 110 & 230V input voltage. Unit will reset if motor/current is too high.

Start and Stop Signal Output (for PLC).

Screwdriver lock Signal Input (for PLC).

Unit can be connected to the Scout (Screw Counter).

Model: STC40

Item #145754

Max. Output: 10A

Output VDC: 30 / 40

Input VAC: 110 / 230V

Size (WxDxH): 4 3/8" x 7 1/2" x 2 3/8"

Weight (lbs.): 1.8

RoHS



FOR DRIVER MODELS:

BF035 - 120

NF150 - 450

Note: The program lock key is required for the BF and NF-Series Standard models and Soft Stop models. RPM & Soft Start Settings can not be adjusted without it.

The program lock key can not be used with Plus models of BF, NF-Series and Soft Stop models and Angle & Auto Reverse models.



### MC-70L TRANSFORMER

Operates between 2 - 20 tools, depending on type of drivers being used. Requires CB105 Sub Control Boxes (see below). Selectable two speed (high and low). The maximum number of drivers that can be used with the MC-70L is based on the premise that all drivers will be in use simultaneously.

Model: MC-70L

Item #144164

Max. Output: 15A

Fuse: 5A

Break: 10A

Output VDC: 20 / 30

Input VAC: 120

Size (WxDxH): 12 1/2" x 8 2/3" x 6"

Weight (lbs.): 26.4

(UP TO 5 DRIVERS)  
A6500

(UP TO 10 DRIVERS)  
A4500 - 5000  
CL6000 - 7000  
SS6500 - 7000

(UP TO 20 DRIVERS)  
CL2000 - 4000  
SS2000 - 4000

RoHS



### SUB CONTROL BOX

For use with MC-70L.

Each control box has its own circuit board that diverts power from the motor to an electromagnetic brake when the driver reaches its preset torque.

Model: CB105  
(includes a ground wire)  
Item #144250  
Cord Length: 78"  
Size (WxDxH): 2 3/4" x 1 2/3" x 4"  
Weight (oz.): 18.5

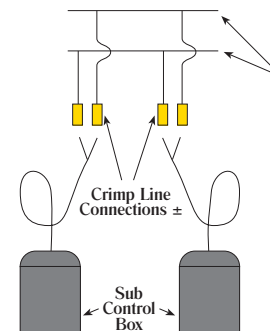


Diagram shows how the Sub Control Boxes interface with the truck cables to provide multiple driver use.



### U-3B INTERFACE CONVERTER

The PLC interface converter provides three types of signals by converting the open collector signal from STC 30 Plus v4.3 and STC 40

Model: U-3B

Item #145753

Size (WxDxH): 3" x 2 3/8" x 1"

Weight (oz.): 3.6

Types of Signals:

Open Collector by Opto-Coupler (Reversed)

Relay Contact (Normal Close)

Relay Contact (Normal Open)

Opto-Coupler: 12 - 24 V (10mA max)

Relay Contact: 30VDC (1A max)



### PROGRAM LOCK KEY

The Program Lock Key protects from incidental or operator tampering of the programmable settings on the side of select BF & NF-Series models\*. To adjust the settings the Program Lock Key must be plugged into the STC40 & FT-30D Mini Transformer.

Item #145774

Note: The program lock key is required for the BF and NF-Series Standard models and Soft Stop models. RPM & Soft Start Settings can not be adjusted without it.

The program lock key can not be used with Plus models of BF, NF-Series and Angle & Auto Reverse models.



### T-70BL TRANSFORMER (Built-in Controller)

Operates BL Series electric screwdrivers.  
Switching power supply 100 - 240V.  
Selectable two speed. Mountable brackets.

Model: T-70BL  
**Item #144400** **RoHS**  
Max. Output: 2A  
Fuse: - 3.15A  
Output VDC: 31  
Input VAC: 100 - 240  
Size (WxDxH): 3 1/2" x 8 1/4" x 2"  
Weight (lbs.): 1.5  
**CE**  
FOR DRIVER MODELS:  
BL2000 - 7000



### T-30BL TRANSFORMER (Built-in Controller)

Switching power supply 100 - 240V.  
Selectable two speed. Mountable brackets.

Model: T-30BL  
**Item #144300** **RoHS**  
Max. Output: 1A  
Fuse: 2A  
Break: 4A  
Output VDC: 31  
Input VAC: 100 - 240  
Size (WxDxH): 2 1/2" x 5 1/4" x 1 1/2"  
Weight (lbs.): 0.7  
**CE**  
FOR DRIVER MODELS:  
BL2000 - 3000

### TRANSFORMERS with SCREW COUNTER (Built-in Controller)

Power supply with built-in screw counter. The quality control device provides visual assembly fastener count and audible reject alarm. Detects - cross threading, omissions, unfinished rundowns and cycle complete. (Visit website for more detail and images.)



Model: CLT-70STC3  
**Item #144296** **RoHS**  
Max. Output: 4.5A  
Fuse: 3A  
Output VDC: 20 / 31  
Input VAC: 100 - 240  
Size (WxDxH): 5" x 8 1/8" x 3"  
Weight (lbs.): 3.5  
**CE**  
FOR DRIVER MODELS:  
CL2000 - 7000  
A4500 - 6500  
SS2000 - 7000



Model: BLOP-STC3  
**Item #144175** **RoHS**  
Max. Output: 4.5A  
Fuse: 3A  
Output VDC: 20 / 31  
Input VAC: 100 - 240  
Size (WxDxH): 5" x 8 1/8" x 3"  
Weight (lbs.): 4  
**CE**  
FOR DRIVER MODELS:  
BL2000 OPC - 7000 OPC\*  
\* Only operates with the "OPC" models from the BL-Series. Cannot operate with standard BL models.



### CLT-50 TRANSFORMER (Built-in Controller)

Selectable two speed (high and low).

Model: CLT-50  
**Item #144276** **CE**  
Max. Output: 2.5A  
Fuse: 2A  
Break: 4A  
Output VDC: 20 / 30  
Input VAC: 120  
Size (WxDxH): 4 1/8" x 7 1/4" x 3 5/8"  
Weight (lbs.): 6  
FOR DRIVER MODELS:  
CL2000 - 7000  
SS2000 - 7000  
A4500 - 6500\*  
\*CLT-50 may be used with A-6500 if torque is to be less than 10 lbf.in



### CLT-60 TRANSFORMER (Built-in Controller)

Switching power supply 100 - 240V.  
Selectable two speed (high and low).  
Mountable brackets.

Model: CLT-60  
**Item #144360** **RoHS**  
Max. Output: 2.5A  
Fuse: 5A  
Output VDC: 20 / 30  
Input VAC: 100 - 240V  
Size (WxDxH): 3 1/2" x 8 1/4" x 2"  
Weight (lbs.): 1.8  
**CE**  
FOR DRIVER MODELS:  
A4500 - 6500  
CL2000 - 7000  
SS2000 - 7000



### CLT-80 TRANSFORMER (Built-in Controller)

Switching power supply 100 - 240V.  
Selectable two speed (high and low).  
Mountable brackets.

Model: CLT-80  
**Item #144279** **RoHS**  
Max. Output: 8A  
Fuse: 5A  
Break: -  
Output VDC: 20 / 30  
Input VAC: 100 - 240V  
Size (WxDxH): 4 1/2" x 8 1/2" x 2"  
Weight (lbs.): 3.5  
**CE**  
FOR DRIVER MODEL:  
CL9000



### CLT-100 TRANSFORMER (Built-in Controller)

Operates two drivers, either individually or simultaneously. The design of the circuit assures that the performance will not be affected by the operating the second driver.

Model: CLT-100  
**Item #144174** **RoHS**  
Max. Output: 3.5A  
Fuse: 2A  
Break: 4A  
Output VDC: 20 / 30  
Input VAC: 120  
Size (WxDxH): 7 1/8" x 5 3/4" x 5 1/8"  
Weight (lbs.): 8.8  
**CE**  
FOR DRIVER MODELS:  
A4500 - 6500  
SS2000 - 7000  
CL2000 - 7000

### ET-30D TRANSFORMER

**RoHS**  
**CE**  
Model: ET-30D  
**Item #145899**  
Max. Output: 1A  
Output VDC: 30  
Input VAC: 110 ~ 230V  
Size (WxDxH): 2 3/4" x 5 1/8" x 1 1/2"  
Weight (oz.): 8.8  
FOR DRIVER MODELS:  
EFO30, EFO40 & E055



Over Heat Protection (OHP) and Over Current Protection (OCP) protect driver from damage or malfunction.

Temperature Detection powers down the unit and resets automatically when unit restores to acceptable levels.

Switchable 110 ~ 230V input voltage. Unit will reset if motor/current overload is too high.

Unit can be connected to the Scout (Screw Counter).



### FT-30D TRANSFORMER

**RoHS**  
**CE**  
Model: FT-30D  
**Item #145870**  
Max. Output: 1.2A  
Output VDC: 30  
Input VAC: 110 ~ 230V  
Size (WxDxH): 2 3/4" x 5 1/8" x 1 1/2"  
Weight (oz.): 8.8  
FOR DRIVER MODELS: BFO35 & BFO45  
**Note: The program key is required for the BFO35 & BFO45. RPM Settings can not be adjusted without it.**