

# STC30 Plus (v1.3) Transformer

Rev 1.2

## Power

The STC30 Plus (v1.3) turns on once the power cord is securely placed into the back of the unit and is plugged into the power source. **Green** power light comes on.



## Connecting Electric Screwdriver

Before connecting the electric screwdriver, make sure the little switch in the lower bottom right of the STC 30 Plus (v1.3) is positioned in the proper setting (EF or K). See diagram below. Only operate tool in proper setting.

1. Attach cord of the electric screwdriver to transformer. Make sure notch in plug lines up with the notch on the socket. Tighten knurled ground ring.
2. Select HIGH & LOW speed button. Select the appropriate speed for your application.

### EF Mode

Low = Output is 20VDC  
High = Output is 30VDC

### K Mode

Low = Output is 30VDC  
High = Output is 38VDC

3. Turn driver on and check for proper rotation. FOR-clockwise, REV-counterclockwise.
4. To apply torque, squeeze the lever (Push-to-Start models - place light downward pressure on the nose of the driver). The driver will automatically stop when the preset torque has been reached.

## Soft Start Mode

Press the "sT" button in the lower bottom right. The power light will blink once and turn **Yellow**, which indicates that you are in Soft Start mode. There are 4 different time settings for the Soft Start mode which are (0.5, 1.0 1.5 & 2.0 seconds). When you select this mode it starts at 0.5 seconds.

- Press the "sT" button again and the Yellow light will blink twice and the Soft Start time will increase to 1.0 seconds.
- Press the "sT" button again and the Yellow light will blink three times and the Soft Start time will increase to 1.5 seconds.
- Press the "sT" button again and the Yellow light will blink four times and the Soft Start time will increase to 2 seconds.

## Quick Reminder

**Green** Light = Operating in Standard mode

**Yellow** Light = Operating in Soft Start mode

**Red** Light = Double Hit mode

## Double Hit Mode

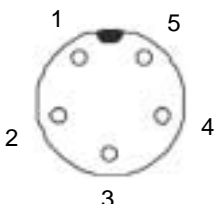
The Double Hit mode is for very soft joint applications. When electric screwdrivers rundown a fastener quickly and the tool clutches off once preset torque is achieved there can be some joint relaxation that can occur. The Double Hit mode has the electric screwdriver perform a second hit to stabilize the torque joint relaxation.

Joint relaxation is caused by the surface of part(s) embedding or by "soft parts" such as gaskets, plastics or spongy material, which collapses under the clamping force created in a torque condition.

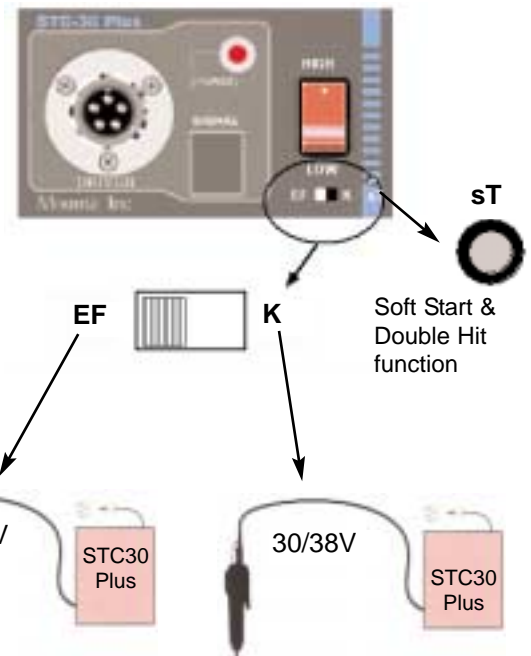
For Hard Joint applications there is no need to use the Double Hit mode.

Press the "sT" button continuously until the power light turns **Red**. The clutch of the electric driver works twice at the set torque under the "Double Hit" mode. The Double Hit will increase the repeatability accuracy at the target torque by double checking.

## Output Pin Connection



- 1: Motor (+)
- 2: Limit
- 3: Motor (-)
- 4: Drive
- 5: Ground



Select EF mode for operating the following drivers:

A4500-6500HT  
SS3000-7000  
CL2000-9000  
EF150

Select K \*mode for operating only the following drivers:

K250-450

\* Do not operate any tool in this mode except for the K-Series drivers.

**Make sure the switch is correct position before operating your tool. Either EF or K mode.**

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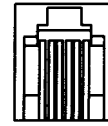
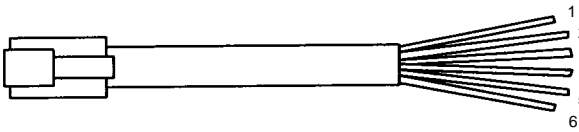
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## Connector and Cables

Cable for connecting Scout to the STC30 Plus (Item #41-801120)



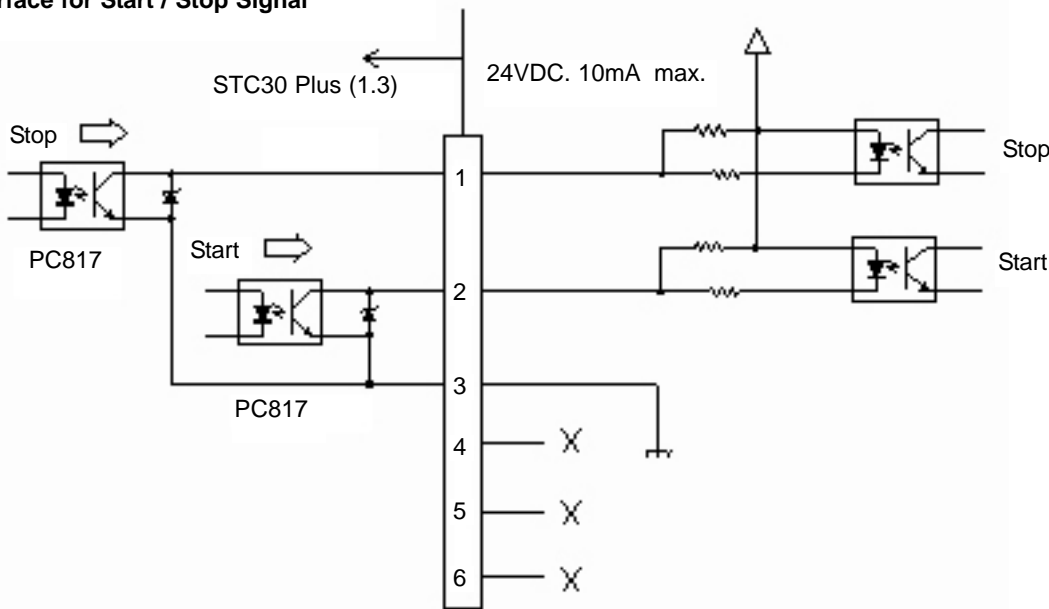
Signal Cable (Item #41-801121)



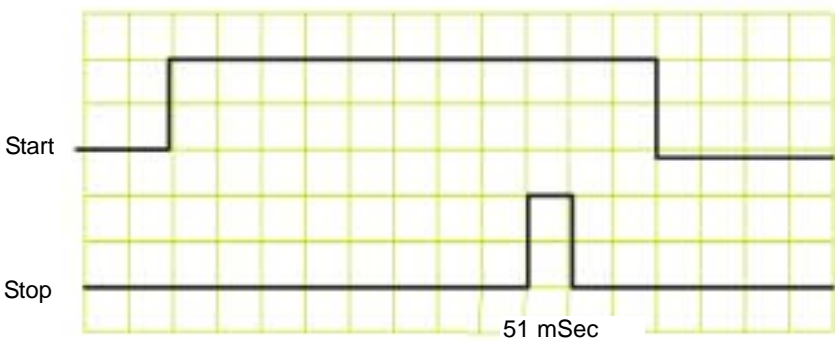
RJ-11  
Modular Jack

Pin No.	Color
1	Solid Orange
2	White/Orange
3	Blue
4	White/Blue
5	Green
6	White/Green

## Interface for Start / Stop Signal



## Timing chart for Start / Stop Signal



## Input voltage selection



**mountz**  
the torque tool specialists

800-456-1828  
Fax: 408-292-2214

mountzsales@mountztorque.com

www.ectorque.com



ISO 9001