

HTC35 Operation Instructions

(Rev 1.0 7/5/13)



RoHS

CE



Power Supply for E-DRIV HF-Series Brushless Electric Screwdrivers



HTC35 Transformer

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General Operation

1. Attach power tool cable to the HF screwdriver and the HTC35 transformer. Make sure notch in plug lines up with the notch on the socket. Tighten knurled ground ring.
2. Plug in power cord to the back of the transformer and power outlet. Flip power switch to "ON" position located on the back of transformer. Power indicator light in the front of the unit turns Green.
3. Turn driver on and check for proper rotation. FOR-clockwise, REV-counterclockwise.
4. To apply torque, squeeze the lever (For 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.

Input voltage selection

For changing the input voltage, loosen two screws and assemble the cover as below.

230VAC Selected



110VAC Selected



OCP (Over Current Protection)

The power will shut down automatically when the current exceeds 10A. The controller should be reset by turning off the power switch for one minute and turned back on. If the current is not over the limit, power will turn on.

There is another OCP in a secondary circuit. The power will be disappear for 5 seconds when the current is over 4A over 3 seconds or when current is over 6A over 0.5 seconds. The transformer recovers automatically. The transformer gives an alarm signal by blinking Green and Orange color on the LED lights along with beep buzzer sound.

Description		Over Current Protection	Over Heat Protection
Detection	Limit current	10A	90°C
	Time duration	immediately	immediately
Protection		Whole power shuts down permanently	Whole power shuts down permanently
Protection Signal	LED	no power	no power
	Buzzer	no power	no power
Recovery		Turn off the power switch and on after 1 minute	Turn the power switch off and on at lower wait for lower than 90°C

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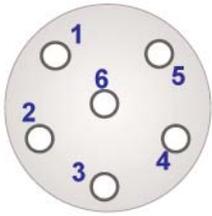
Over Heat Protection

The thermistor will shut down whole power supply if the unit over heats. The controller should be reset by turning off the power switch for one minute and turned back on. If the current is not over the limit, power will turn on.

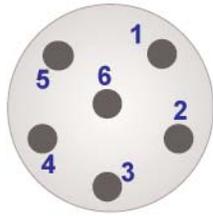
Ratcheting Clutch Alarm

An alarm and break system notifies you when the ratcheting clutch occurs with an electric screwdriver. If the tool ratchets continuously 5 or 6 times, the HTC35 will provide a buzzer alarm along with the red LED light. Also it will stop the output power for 5 seconds as a secondary protection.

Output Pin Connection



View of controller



View of cable side

- 1: DC(+)
- 2: Limit (Torque Up)
- 3: Ground
- 4: Start
- 5: DC (-)
- 6: Driver Lock or Remote Start



Note!

Do not connect any other electric screwdriver that's not listed to be used with the transformer. It may cause electric shock, fire, damage to the tools or operator injury.

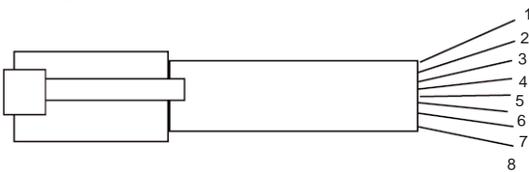
Connector and Cables

Cable for connecting Scout to the HTC35 (Item #14-7000007). The cable is a RJ-45(8 Pin) - RJ11(6Pin).



2M

Signal Cable (Item #14-PELZ911)



1.5M

RJ-45
Modular Jack

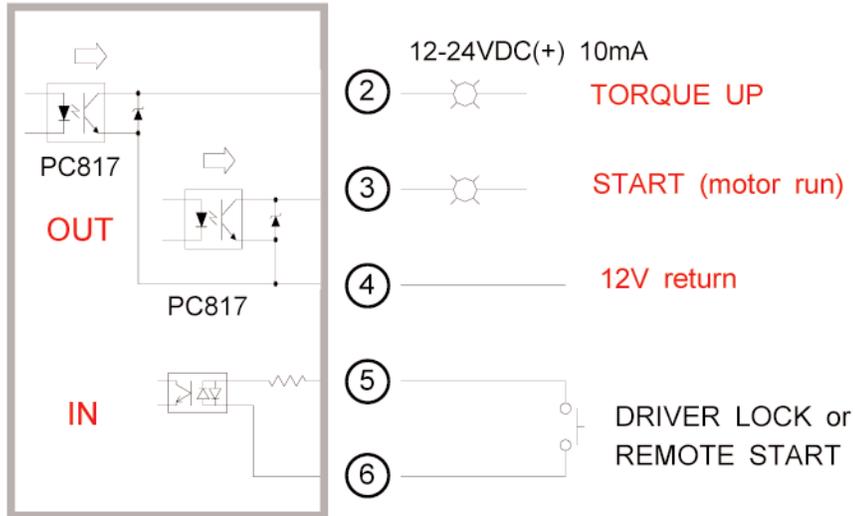


Pin No.	Color	Function
1	Solid Orange	Not Used
2	White/Orange	Stop
3	Blue	Start
4	White/Blue	DC(-)
5	Green	Driver Lock
6	White/Green	Driver Lock
7	Brown	N/A
8	White/Brown	Not Used

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Interface for Start / Stop Signal



Timing Chart

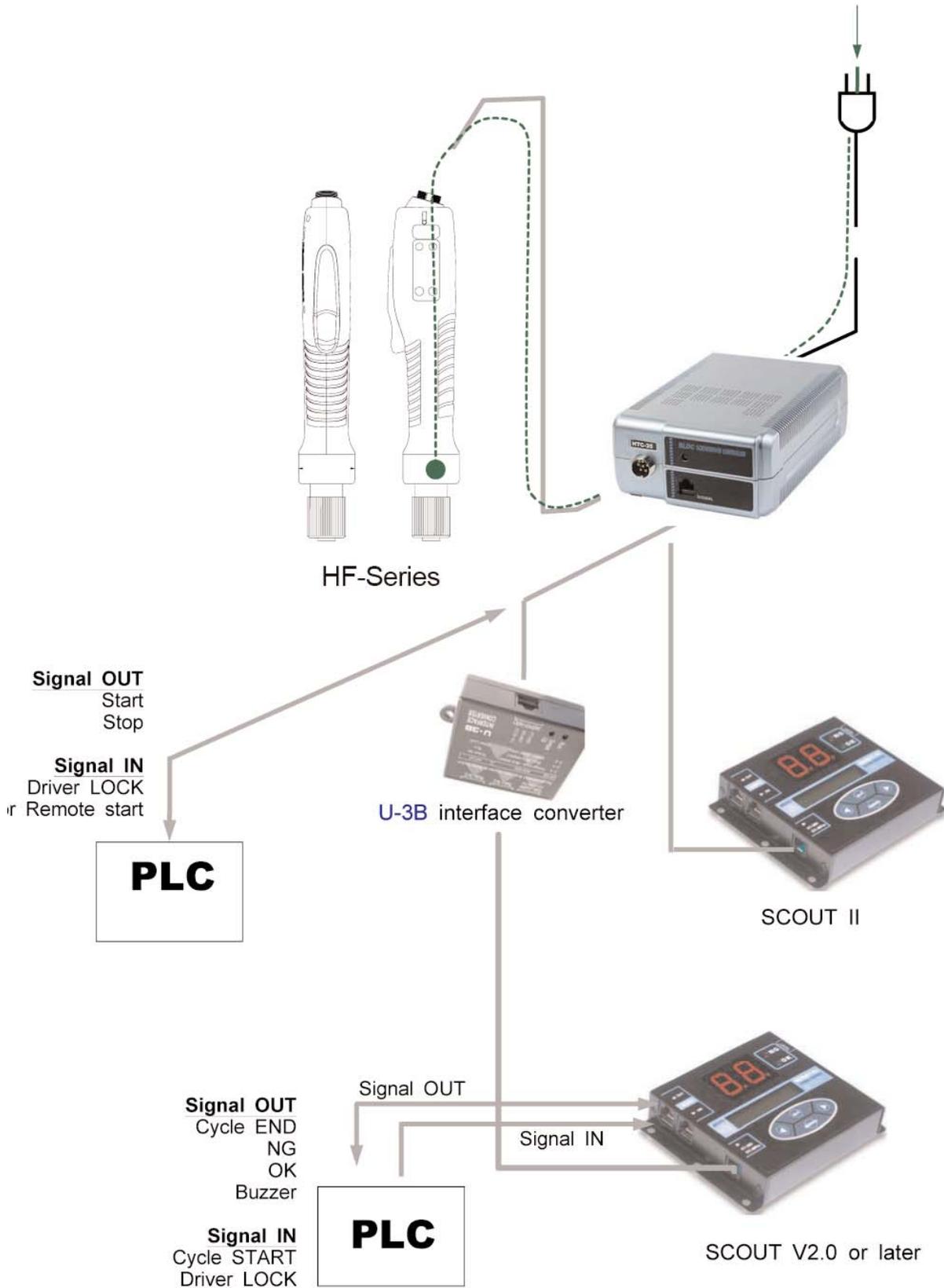


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Connections

Ground



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U-3B Interface Converter (Accessory)

The PLC interface converter provides three types of signals by converting the open collector signal from HTC35.

Model: U-3B

Item #145753

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

Weight 3.6 oz



Types of Signals:

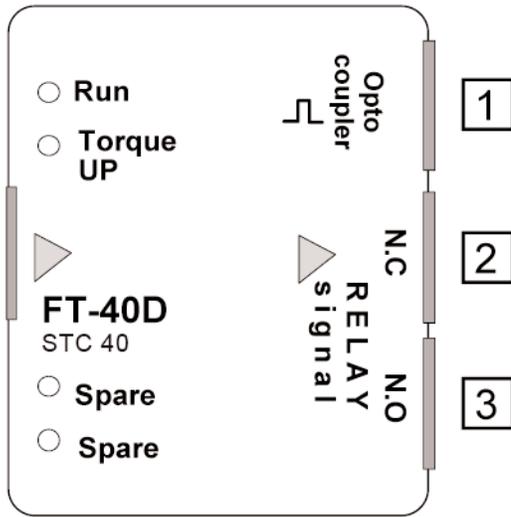
Open Collector by Opto-Coupler (Reversed)

Relay Contact (Normal Close)

Relay Contact (Normal Open)

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

Relay Contact: 30VDC 1a Max



Relay power off when not use



8PIN Configuration and Output

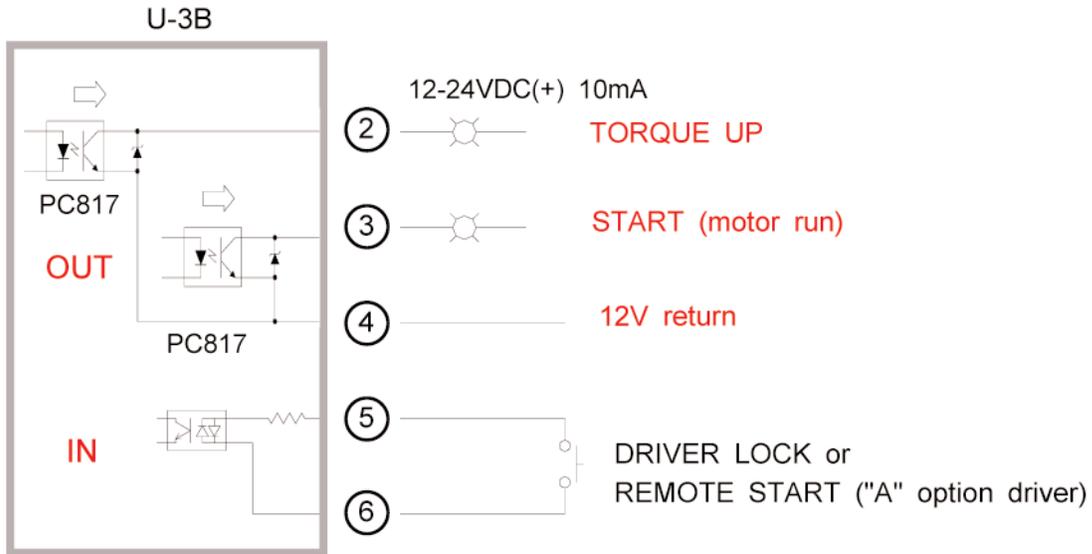
No	Color	Interface Signal	FT-40D STC 40	U-3B Interface converter I/O port		
				1	2	3
1	ORANGE	Spare				
2	ORANGE STRIPE	Torque Up				
3	BLUE	Motor Run				
4	BLUE STRIPE	Common for 2&3 wire				
5	GREEN	Motor Lock or Remote Start				
6	GREEN STRIPE					
7	BROWN	No use				
8	BROWN STRIPE	Spare				

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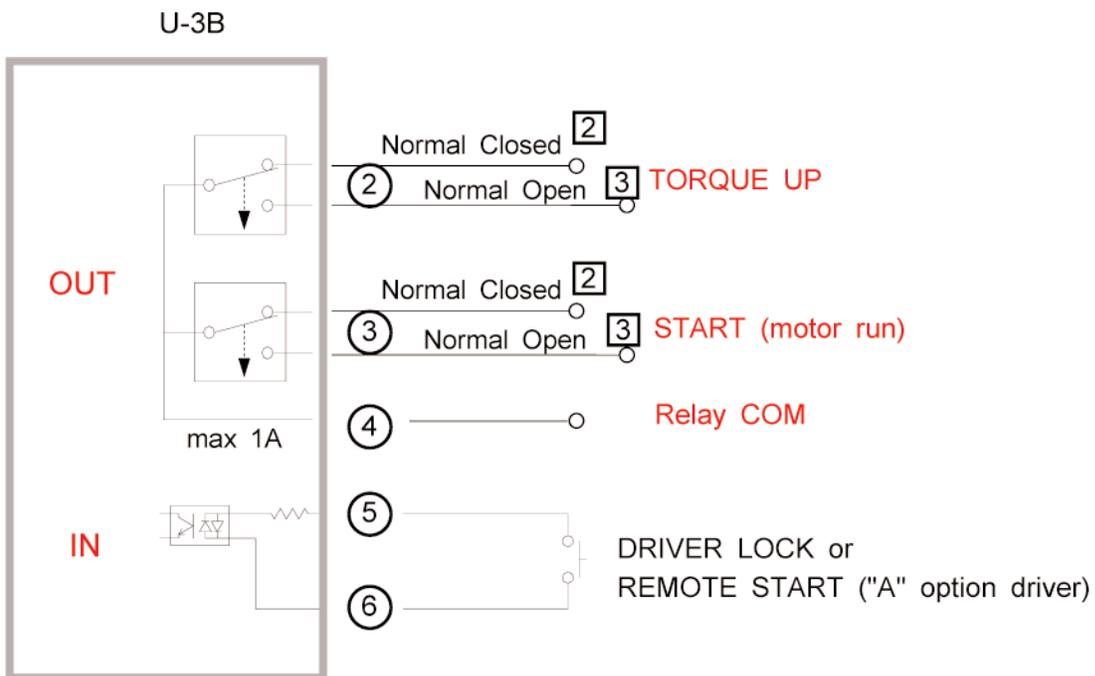
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U-3B interface converter I/O details

1 Opto-coupler port



2 & 3 Relay N.C & N.O port



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Mountz Calibration & Repair Services

Mountz Inc. features an experienced calibration and repair staff. Our trained technicians can calibrate and repair most any tool. Mountz provides rapid service with quality that you can trust as we offer three state-of-the-art calibration lab and repair facilities that can calibrate up to 20,000 lbf.ft.

Mountz, The Torque Tool Specialists®, has been a leader in the torque tool industry for more than 50 years. Engineered in the Silicon Valley and serving the globe, Mountz focuses on delivering high-quality torque products, services, and solutions to ensure customers can always proceed with confidence. We are committed to forging a safer world through precision and accuracy, and by innovating every day.

Tool Service & Repair Capability

- Torque Wrench Calibration: Click Wrench, Dial Torque Wrench, Beam Wrench, Cam-Over & Break-Over Wrench
- Torque Screwdrivers: Dial, Micrometer, Preset & Adjustable
- Torque Analyzers/Sensors: All brands
- Electric Screwdrivers: All brands
- Air Tools: All brands
Impact Wrenches, Drills, Pulse Tools, Grinders, Percussive Tools, Air Screwdrivers, Nutrunners, DC Controlled Nutrunners
- Torque Multipliers: All brands

Mountz Torque Testers and Calibration Equipment

Torque tools go out of calibration with use. Calibrating a torque tool is a fine-tuning process of bringing the tool back within its tolerance. Torque testers can also be used for quick tools tests on the line or in the lab to determine whether torque tools are holding a given setting.

A regular torque tool calibration and re-calibration guarantees the operator repeatable accuracy and adherence to international standards. Torque testing also ensures torque equipment is operating to peak performance and can highlight potential tooling problems before they arise perhaps due to tool wear or broken components.

Controlling torque is essential for companies to ensure their product's quality, safety and reliability isn't compromised. The failure of a three-cent fastener that isn't properly tightened can lead to catastrophic or latent failures. Fasteners that are insufficiently torqued can vibrate loose and excessive torque can strip threaded fasteners. Using a quality torque tool has become increasingly important for many companies to ensure that proper torque is being applied and maintains gauge requirements associated with the ISO 9001 Quality Standard. Look for the Mountz hexagon logo - it's a stamp for quality tools, service and knowledge in the field of torque control.

Mountz Service Locations

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