## **TECO Westinghouse**

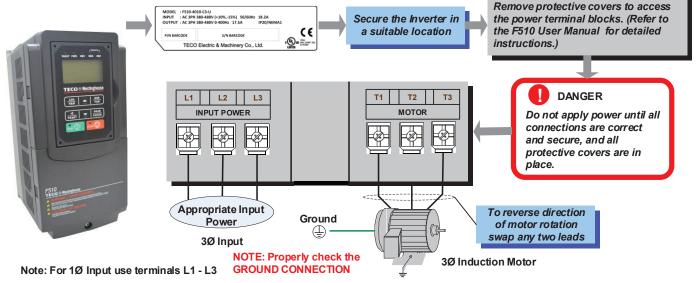




This document is intended as a quick start guide to get familiarity with keypad navigation, changing parameters, and setting the F510 drive up for external start/stop and external potentiometer signal. Please note this document is not a substitute for the F510 User Manual and it is important that you reference the F510 user manual before proceeding.

## STEP (1) Check Nameplate and Connect Input / Output Wiring -

Check the inverter nameplate to insure that the information agrees with your order. Also insure that the power available is rated appropriately for the drive being used.



## STEP 2 Power-up the Inverter, check the Digital Operator

In this step, after the initial power-up you will become familiar with the indications and functions of the Digital Operator.



### **KEYS (8) Description**

RUN: RUN Inverter in Local Mode STOP: STOP Inverter LOC/REM: Switches between Local and Remote operation DSP/FUN: Switches between available displays </RESET: "<" Left Shift: Used to change parameters or values, RESET alarms and faults ENTER: Used to display the preset value of parameters and to save

ENTER: Used to display the preset value of parameters and to save changes

▲:Parameters navigation Up, Increase parameters or reference value

▼:Parameters navigation Down, Decrease parameters or reference value

## F510 Control Settings (Factory Default)

## RUN/STOP Control: Keypad (RUN / STOP key)

Press RUN to start the drive or STOP to stop the drive.

See step 5. to change to RUN/STOP to external switch/contact.

## SPEED Control: Keypad (Default 5.00 Hz)

See step 6. to change to external potentiometer control.



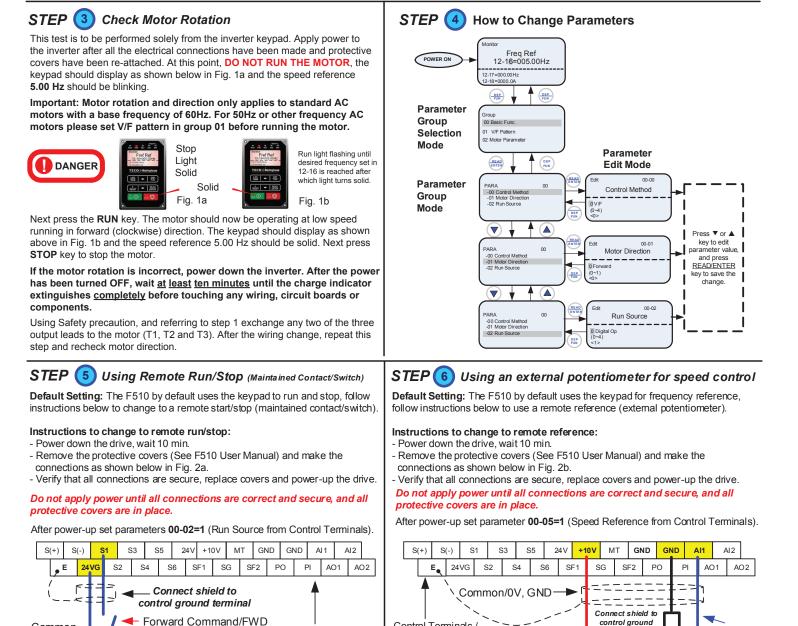
### **Changing Speed Reference**

Press **ENTER** button and use ▲ ▼ to change reference.

Press </RESET button to shift cursor to the left

Press ENTER button to save

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#### STEP (7 Frequently Used Parameters Motor Nameplate Data (Parameter 02-01)

(Maintained)

The motor rated current is set at the factory based on the inverter model. Enter the motor rated current from the motor nameplate if it does not match the value shown in parameter 02-01.

Fig. 2a

Control

Terminals / User

Terminals

**Control Terminals** 

User Terminals

+10VDC, +10V

Terminal representation for 230V: 1 ~ 3 HP, 460V: 1 ~ 3 HP

(See section 3.3 of the instruction manual for other sizes)

Setting range: Varies by model.

Common

/24VG

### Using Keypad for Speed Reference (Parameter 00-05)

To use the keypad set parameter 00-05 to 0.

Terminal representation for 230V: 1 ~ 3 HP, 460V: 1 ~ 3HP

(See section 3.3 of the instruction manual for other sizes)

### Acceleration and Deceleration Time (Parameter 00-14, 00-15)

Start / Stop Switch

Acceleration and Deceleration times directly control the system dynamic response. In general, the longer the acceleration and deceleration time, the slower the system response, and the shorter time, the faster the response. An excessive amount of time can result in sluggish system performance while too short of a time may result in system instability.

The default values suggested normally result in good system performance for the majority of general purpose applications. If the values need to be adjusted, caution should be exercised, and the changes should be in small increments to avoid system instability.

### 00-14 Acceleration time 1

### 00-15 Deceleration time 1

These parameters set the acceleration and deceleration times of the output frequency from 0 to maximum frequency and from maximum frequency to 0.

### Factory Reset (Parameter 13-08)

To reset all parameters back to factory default set parameter 13-08 to 9.

For the complete F510 parameter listing and descriptions, refer to the F510 Instruction manual on our website www.tecowestinghouse.com

control ground

Potentiometer

1 ~ 5K Ohm (1/2 W)

Analog

Input AI1

Fig. 2b

terminal