

TECO L510 Inverter

Quick Start Guide

This guide is to assist you in installing and running the inverter and verify that it is functioning correctly for its main and basic features.

For detailed information and if there are any doubts please refer to the instruction manual.

Step 1 Supply & Motor connection

- 1) Ensure that the Inverter & the motor have the correct KW power and voltage ratings.
Motor full load amps must not exceed the Inverter rating.
- 2) Ensure that the supply & Motor cables are connected Correctly prior to power up.
- 3) For single phase supply, use L1& L3 (N) on units which have 3 supply terminals.
On units with two supply terminals L1&L2, connect live to L1 and Neutral to L2.
- 4) Connect motor cable to terminals T1,T2 &T3.
(Swap two leads If motor runs in reverse direction).
- 5) Connect supply Earth and the motor Earth to the drive Earth terminal.

Note:-

1) For detailed installation and wiring refer to the Instruction manual.



Step 2	Apply power to the drive
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Apply power to the drive, the display will briefly show the supply voltage 220V followed by

05.0

 flashing.

This is the default (factory set) frequency.

If the unit has been used previously then it will show the last frequency programmed.

Step 3	Test run from keypad
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Press **RUN KEY** to run.

The frequency will ram up to **5.0 Hz** **or** the user **pre-set** frequency and according to the default acceleration ramp time.

Press **STOP/RESET** key to stop.

The frequency will ramp down to zero according to the default decel ramp time.

Step 4	To alter frequency from keypad. (Default setting).
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Use the Arrow keys   and **< / Enter**

To alter the digits to the required frequency.

eg. 50.0 HZ then use **RUN** and **STOP** keys to start/ stop.

Remote speed reference and Remote run

Step 1	Remote mode wiring. Speed reference and Run signals.
<p>1) Ensure that you have carried out installation & wiring requirements as per step1 quick start guide on previous page before you proceed.</p> <p>2) For analogue signal type 0-10V dc. Use the terminal AVI.</p> <p>For analogue input type 4-20 mA.dc. Use the terminal ACI.</p> <p>.Connect remote potentiometer OR remote 0-10 vdc signal as required. to terminals AVI.</p> <p>Terminal 10Vdc is the supply provided for use with the potentiometer.</p> <p>Terminal AVI for potentiometer wiper connection.</p> <p>Terminal AGND is 0Vdc.</p> <p>3) Connect remote start switch if required according to diagram in the instruction manual.</p> <p>Use terminals +12Vdc & S1 (Forward run).</p> <p>Use terminals +12Vdc & S2 (Reverse run)</p> <p>+12Vdc is the common terminal for PNP type inverters.</p> <p>COM (0Vdc) terminal is common for the NPN type inverters.</p>	

Step 2	Remote mode Run
<p>1) Power up.</p> <p>Display will read the frequency from one of the following according to the Connection made to AVI terminal. Set parameter 00-05 =00-02</p> <p>a) Remote external potentiometer</p> <p>b) Remote 0-10VDC analog signal.</p>	

Step 3	Check/ verify and alter parameters
<p>Check / verify and alter parameters for remote start & remote frequency as necessary before you proceed. Parameters 00-02 & 00=05</p> <p><i>See quick start parameter list & How to alter parameters.</i></p>	

Step 4 **RUN using remote speed reference.(Potentiometer,0-10vdc or 4-20ma)**

- 1) **To run.** Activate the remote run switch connected to terminals S1 (FWD) or S2 (REV) as required, Parameter 00-02=00-01

The frequency will ram up to the **frequency** set on the pot (parameter 00-05 = 00-01) **or** analog signal (0-10v dc /4-20ma) and according to the set acceleration ramp time.

How to alter parameters using the keypad

- 1) To alter parameters:- Press the **MODE** key, until the first parameter 00-00 is displayed.
- 2) Then use the arrow keys ▲ ▼ to select the parameter required then Press < / **ENTER** key to read the preset value.
- 3) Use the ▲ ▼ and < / **ENTER** keys to alter the setting of the parameters as per **basic quick start parameter list**.

Note:- For full parameter list refer to the instruction manual.

- 4) To save each parameter change, press < / **ENTER** key then the word **END** will be displayed.
- 5) Use ▲ ▼ key to select the next parameter to alter and follow steps 2 to 4 until all changes are complete.
- 6) Pressing the **MODE** key repeatedly will alternate the display between the **preset frequency** (flashing display) and the last parameter accessed or other selectable displays 0 to 7 when selected by parameter 12-00 according to the table below.

【0】 :Disable display	【1】 :output Current
【2】 :output Voltage	【3】 :DC voltage
【4】 :Temperature	【5】 :PID feedback
【6】 :AVI	【7】 :ACI



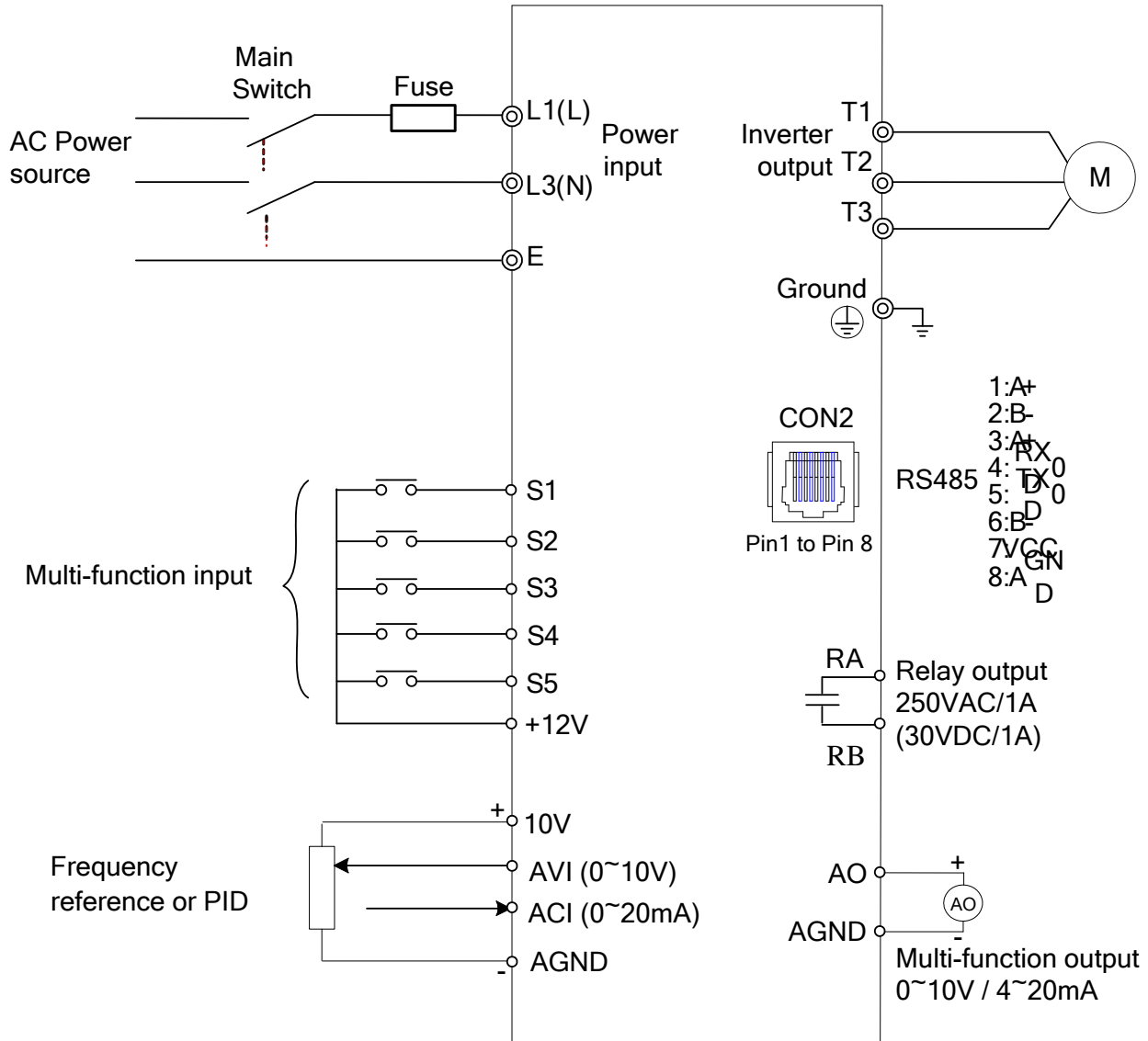
Basic Quick Start Parameter List

Parameter	Default	Range	Note
00-14	10.0	0.1~3600.0	Acceleration time in Secs
00-15	10.0	0.1~3600.0	Deceleration time in Secs
00-04	000	0-2	0: Forward/Stop-Reverse/Stop 1: Run/Stop-Reverse/Forward 2: 3-Wire Control Mode-Run/Stop
00-12	50/60Hz	0.01~650.00	Max frequency limit.
00-13	0.0	0.00~649.00	Min frequency limit
00-02	00-00	0-2	Start mode:- Keypad = 00-00 Remote = 00=01 Communication = 00-02
00=05	00-00	0-6	00-00 = keypad 00-01= Potentiometer on keypad 00-02= External AVI analogue signal 00-03= External ACI analogue signal 00-04 =External up/down frequency control 00-05= control by Communication method 00-06=PID output
07-09	000	0-1	Stop method:- 00-00 = Decel to stop 00-01= Coast to stop
02-01	**A	**A	Motor overload protection
13-08	000		Set to factory setting. 1150 = 50 HZ system. 1160 = 60HZ system

Note:- For Full Parameter List see the Instruction manual

Interconnection Diagram.

Single phase (PNP):

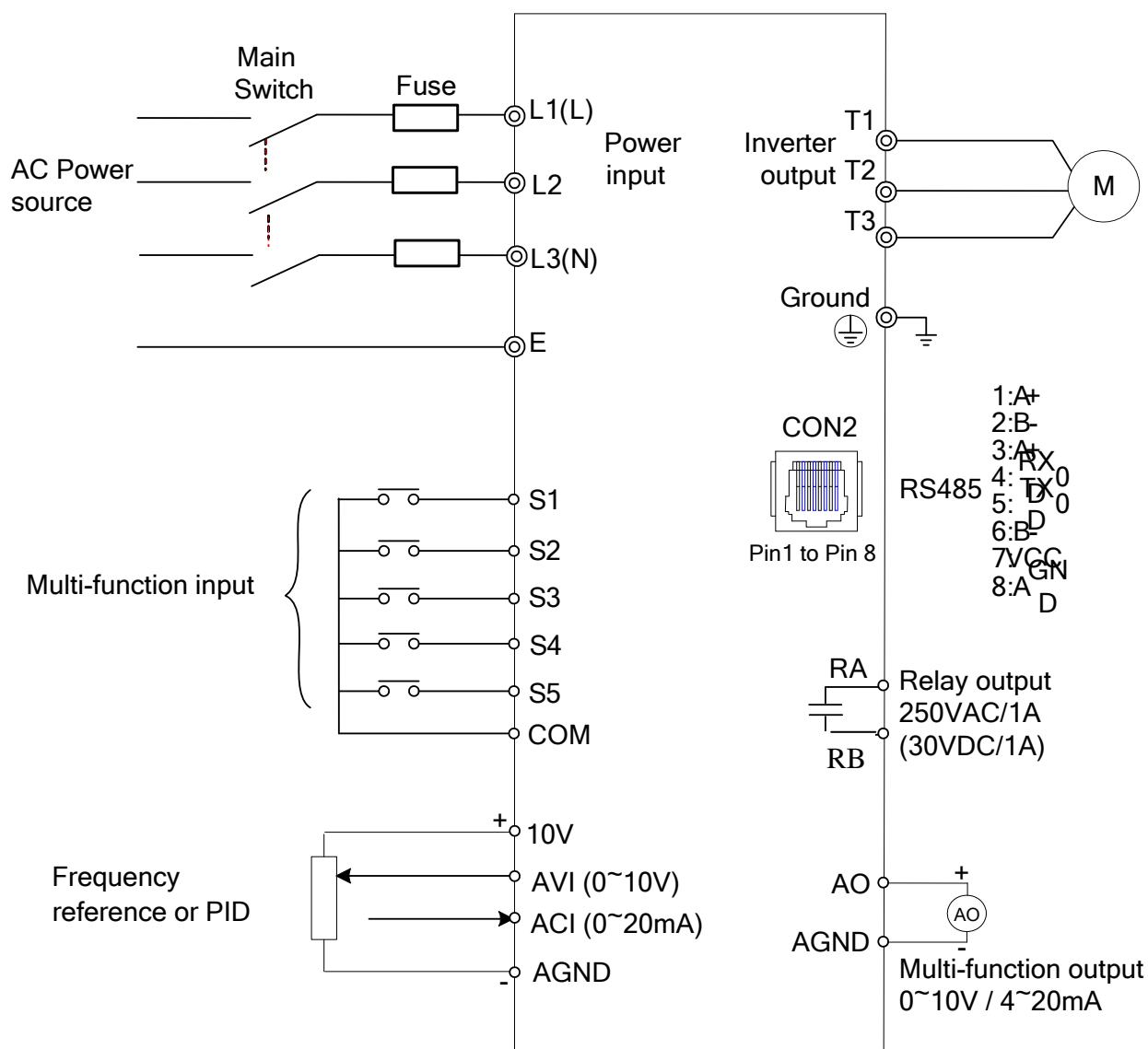


Model:

200V : L510-2P2-H1F-P / L510-2P5-H1F-P / L510-201-H1F-P
L510-202-H1F-P / L510-203-H1F-P

Note:- Supply voltage **must not** be connected to Inverter output terminals T1,T2 ,T3. This will damage the inverter.

Three phase (NPN):



Model:

200V : L510-2P2-H3-N / L510-2P5-H3-N / L510-201-H3-N
L510-202-H3-N / L510-203-H3-N