

Check-Out Procedure

This section provides a basic bench test of the Dynaserv drive. Compumotor recommends that you complete these steps before you install the system permanently.

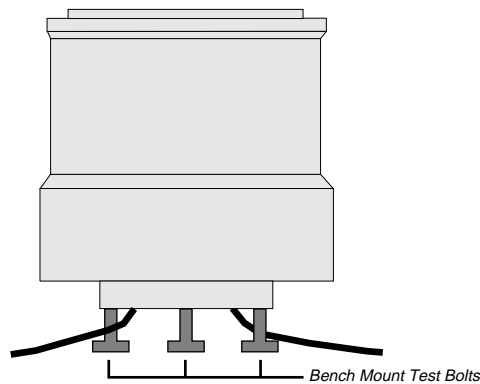
Bench Test

This bench test is designed to test the motor's basic functionality. During the bench test, only Test Mode motion is possible. For further motor operation, the motor should be permanently mounted. Refer to **Chapter ③ Installation**. For the bench test, the following items are required:

- A 5VDC power supply with jumper leads
- An AC power cord
- Two (2) 2" jumper wires
- A Honda connector from ship kit

Step ①

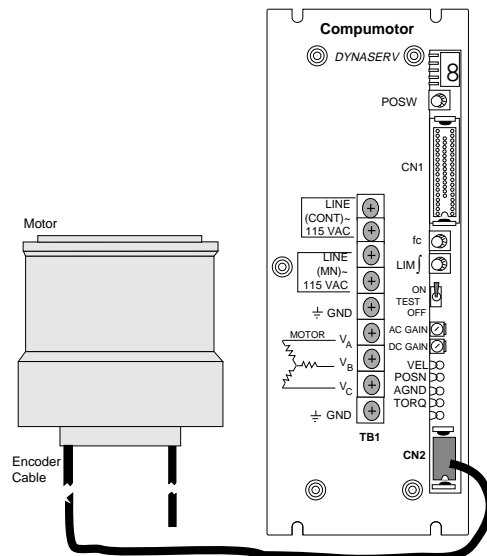
Bench mount the Dynaserv motor. Three bolts can be used to elevate the motor for the bench test. When the motor is bench mounted, it may be operated upright to allow for proper cable routing without restricting the rotation of the outside motor housing.



CAUTION

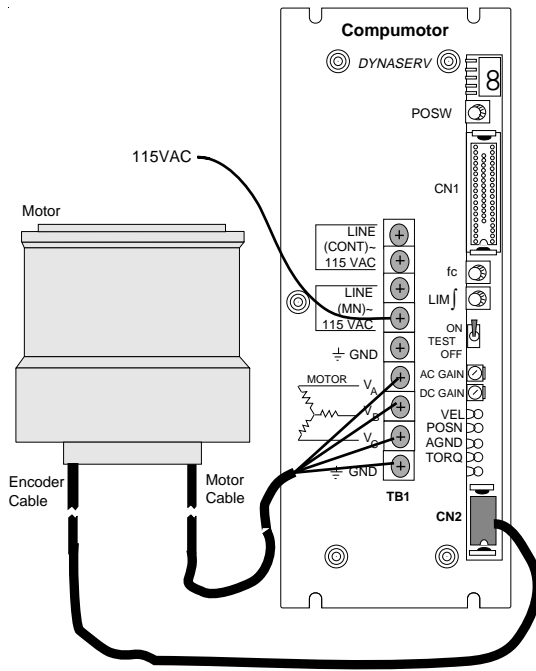
- ① *Never operate the motor upside down with the rotor stationary. This will cause cable wind-up and possible system damage.*
- ② *Never attach a load to the drive during the bench test procedure. This mounting configuration is for bench test only. For permanent installation, refer to Chapter ③ Installation.*

Step ②



Connect the feedback cable. On the DR Series, an 8-pin Honda connector is provided. A 16-pin Honda connector is used with the DM Series. **These cables are pre-wired.**

Step ③

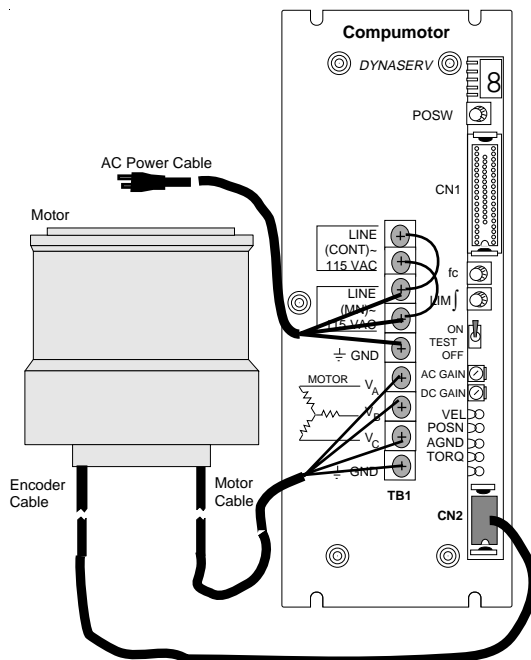


Connect the motor cable between the motor and drive. Match the correct phase as specified on the terminal leads (check color codes).

CAUTION

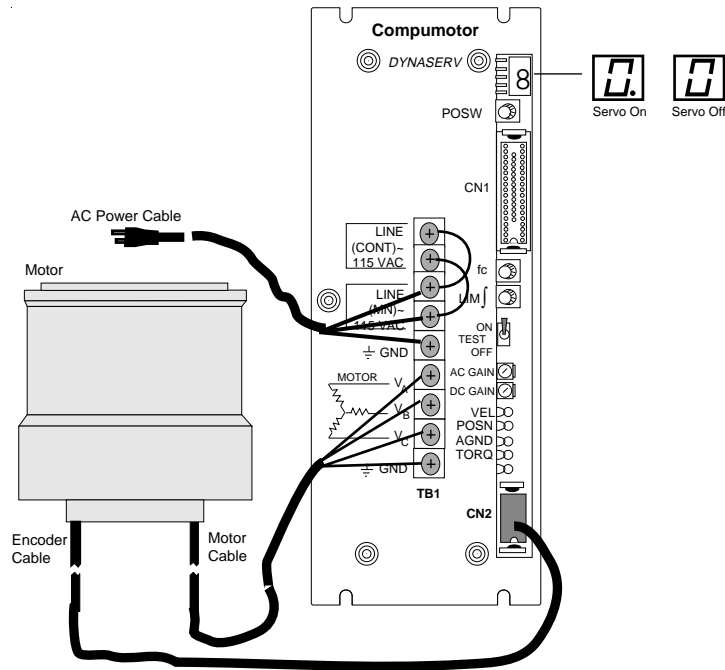
Never connect motor cables when power is connected to the drive—this may damage motor connector contacts.

Step ④



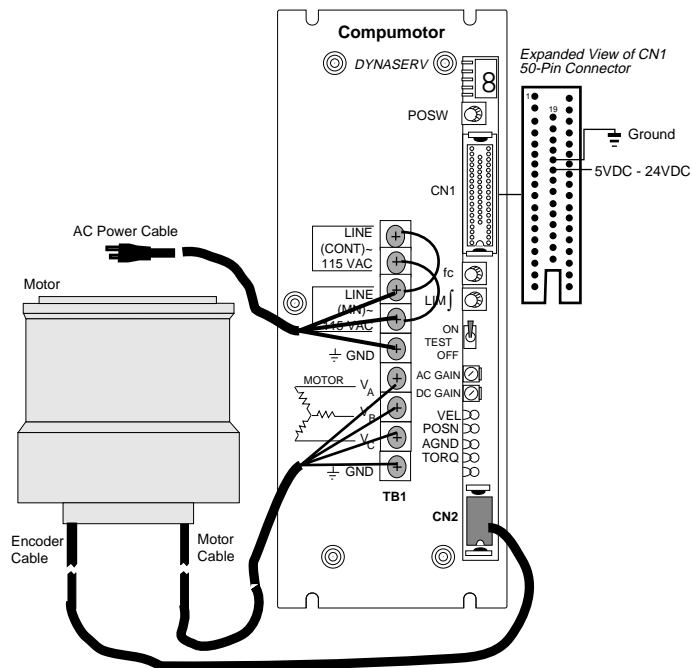
Measure and verify incoming power. The Dynaserv has separate power inputs for the control and main power supplies. These inputs can be jumpered together. This configuration is valid for both 115VAC and 230VAC models. The 200VAC version requires three-phase power. Connect, **but do not energize the power input.**

Step ⑤



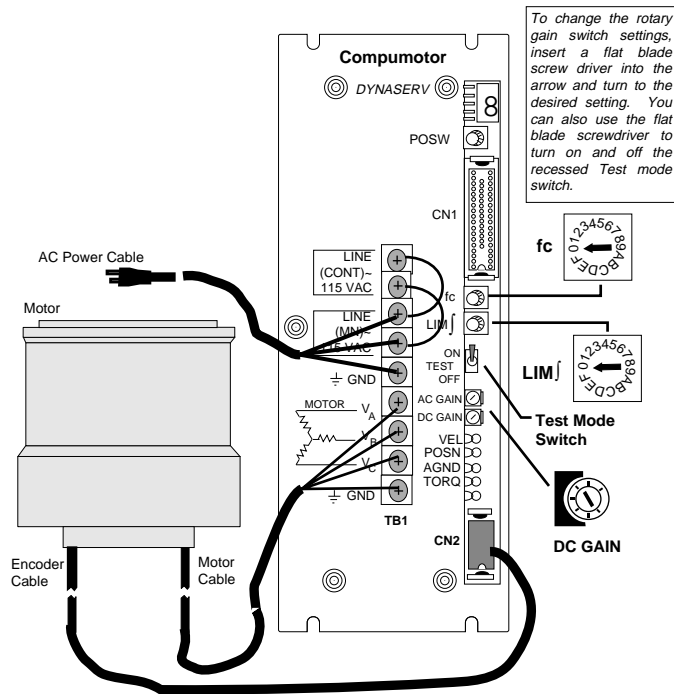
Check the cable connections and apply power to the drive. The drive is always energized in a **servo off** state. **Servo on** and **servo off** are indicated by the presence (on) or absence (off) of a lit decimal **after** the LED character.

Step ⑥ A-



To enable the servo, apply 5V to pin 24 and GND pin 23 (CN1 50-pin connector). This activates the **servo on** state. Confirm that the display now reads \emptyset . If the display does not show \emptyset , consult *Chapter ⑥ Maintenance & Troubleshooting*.

Step ⑥ B



When the motor is enabled, current flows to the motor. When shipped from the factory, the system gains are set to minimum values, so it is normal for the motor to have little torque. Adjust the gain settings to the recommended values listed in the table.

Condition	fc	LIMf	DC Gain
Unloaded Motor	A	4	Mid-range

Step ⑥ C

To complete the bench test, turn on the Test mode switch (see previous figure). The switch is recessed in the drive. When you turn the switch on, the motor will rotate back and forth at a rate of 2.5 Hz. If the motor rotates as described, the motor is operational and you may proceed. *To stop the motor, turn the Test mode switch off.*

