

Section 2. GETTING STARTED

What You Should Have

Upon receipt, you should inspect your PDHX-E Series Drive system for obvious damage to its container. Report any damage as soon as possible. The items listed in Table 2-1 should be present and in good condition. To verify that you have the proper drive model, check the model number listed on the drive serial plate.

Ship Kit Table

Part Description	Part Number
PDHX-E Drive	See drive identification below
PDHX-E User Guide	1600.209.XX
Drive connectors and ferrite absorber kit	PDHXE/FITKIT

Table 2-1. PDHX-E Drive Ship Kit

Identification

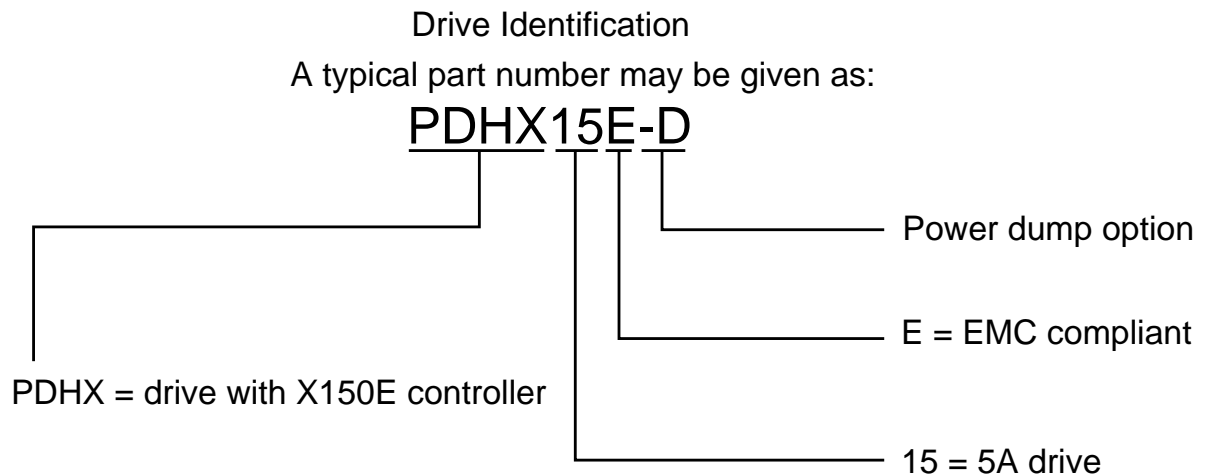


Figure 2-1. Drive Identification

Pre-installation Test

This section provides procedures to help you to connect up your PDHX-E drive system for a pre-installation test. Please note the pre-installation test allows you to become familiar with the operation of the drive prior to permanent installation, it should only be set up and used by competent personnel familiar with installation of motion control equipment.

Figure 2-2 illustrates the pre-installation test configuration for systems operating from a 230V mains supply. Please note the following:

- The motor should be securely clamped to the test bench before any power is supplied.

Minimum RS232 Connections

You will need to make a connection between a terminal and the drive. The simplest connection that can be made is using a RS232 communications link as detailed below.

Drive RS232/RS485 9-way D-type Connector	Computer 9-way D-type	Computer 25-way D-type
3 0V	5	7
4 RxA	3	3
5 TxA	2	2

Table 2-2. Minimum RS232 Connections

Note: The RS232 connections need to be made using a braided screen cable with metal back shells on the D-type connectors to maintain EMC compatibility.

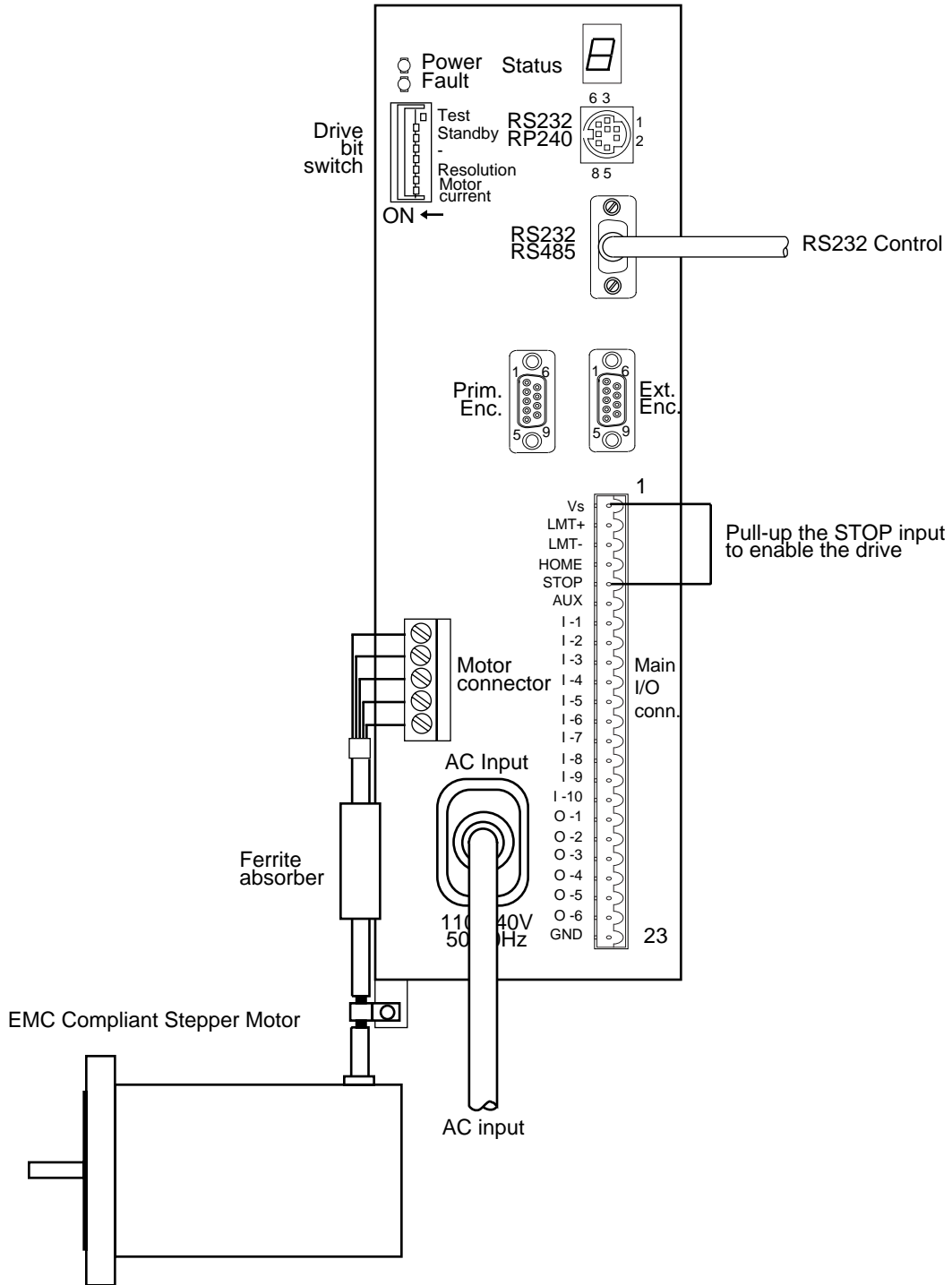


Figure 2-2. Pre-installation Test Configuration

Motor and AC Power Connections

1. Connect the Motor

WARNING - Electric Shock Hazard

Ensure that AC power is disconnected before attempting to connect or disconnect the motor. Lethal voltages are present on the motor connectors.

Fit the drive end motor connector to the corresponding socket, ensuring that the motor cable screen is anchored under the P-clip and the ferrite absorber is fitted in the position shown in Figure 2-2.

2. Connecting to an AC Supply

The PDHX-E drive operates direct-on-line from a 110-240V AC input, with no isolating transformer. A permanent connection, or an IEC309 connector is required to the mains supply.

DO NOT APPLY POWER TO THE DRIVE YET.

Testing the PDHX-E System

1. Ensure a link is made between Vs (pin 1) and Stop (pin 5) on the 23-way main controller connector.
2. Make the RS232 connection between the terminal and controller, as detailed above.
3. Configure the terminal to operate at 9600 baud, 8 data bits, 1 stop bit and no parity. Set the keyboard to capitals.
4. Apply power to the drive.
5. Establish serial communications by sending a 1DR comand. The drive should return a report of the setup of various parameters of the controller. If no response is obtained check the RS232 connections are made correctly.
6. Configure the drive for PDHX-E operation, by typing the following:

1RFS2

7. Correct operation of the drive can be checked by sending the following commands:

LD3<return> disable limit inputs
D 4000<return>
G<return>

8. Motor rotation of 1 revolution confirms that the drive is operating correctly. If the motor fails to rotate, re-check all connections. If you do not discover the cause of the problem refer to the ***Maintenance & Troubleshooting*** section.

9. At the end of testing remove power from the drive.

