

# Complete Wiring Instructions for Lubricated Compressor with Legacy Motors

**LT** *Advance*  
**Series**



**LT** *Plus*  
**Series**



**L** *Plus*  
**Series**



## Introduction

General Air Products, Inc. has been an industry leader in quality products and customer service since its creation in 1936. Our persistent effort in meeting the needs of our customers assures that we will continue to lead in these areas. In keeping with these ideas we bring you this comprehensive wiring manual.

Inside you will find pictures and detailed instructions on how to properly wire your Lubricated Tank Mounted Air Compressor.

If you have any questions or problems during the installation process please call us toll free at **1-800-345-8207**.

## Warnings

- All electrical work must be completed by qualified electrician personnel, familiar with local and national codes.
- Motors are Factory wired. Connections for low or high voltage must be set by the installing personnel.
- All units are controlled by the pressure switch. Ensure that the incoming power supply is wired to the pressure switch.
- Magnetic Starters are recommended for all units and are required by electrical code for all Three (3) phase units.
- To ensure proper voltage to the compressor, a voltage reading **MUST** be taken while the compressor is running. We also recommend taking a voltage reading while the compressor is re-starting under load to verify the electrical service capacity.
- The current (amps) drawn by the compressor should be checked in conjunction with above. Starting and re-starting current loads will be higher initially than full load current. Our recommended wire sizes take this into account.
- Adjusting the pressure switch voids warranty – **CONSULT FACTORY**. Adjusting the pressure switch to a higher pressure could overload the motor.
- Beware – Capacitors hold **HIGH Voltage**. Do not handle.
- Motors are NEMA rated, which means they will operate at +/- 10% of name plate rating. The 10 percent applies to low and high voltage, but not 208v. This means motors wired for 208v/230v will operate between 207v and 253v. 200v motors available – consult factory.

**If you experience ANY electrical problems,  
Contact the factory IMMEDIATELY by calling 1-800-345-8207**

## Wiring Instructions for LT20033 Section 2

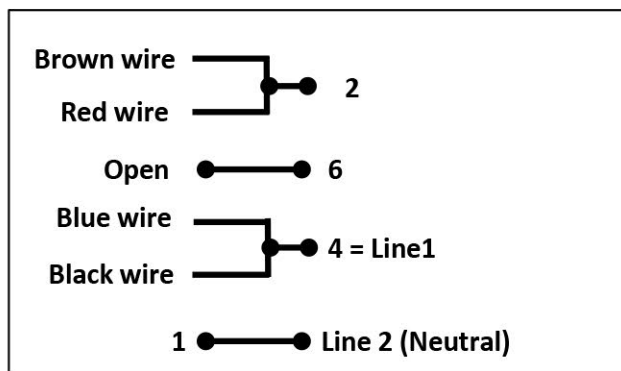
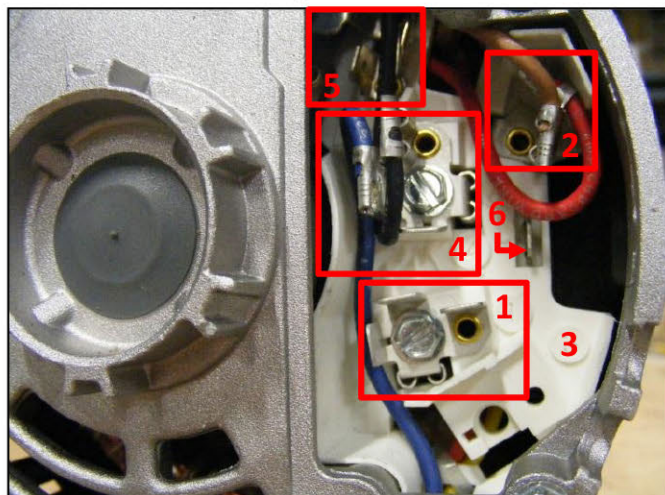
Single Phase – **115v/208-230v**

Model Number: LT20033A

### **Important Note:**

Shows Correct Rotation  
CLOCKWISE Rotation

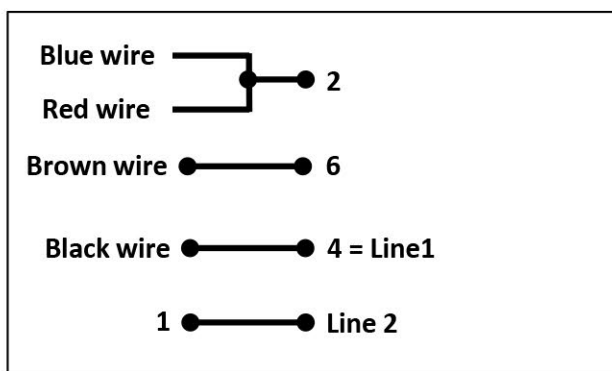
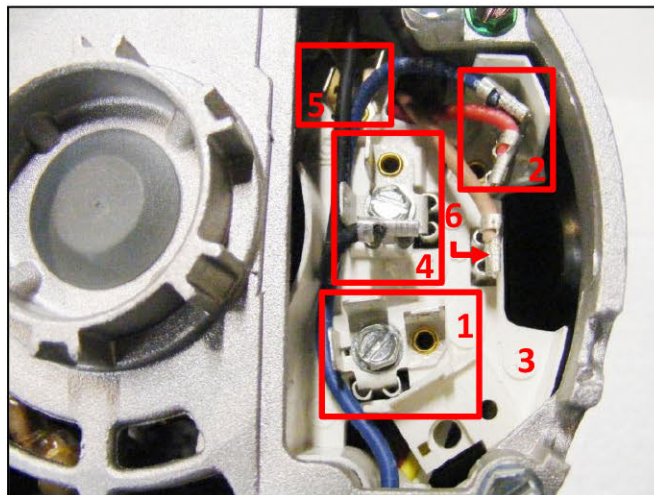
**Low Voltage (115v)**



### **Important Note:**

Shows Correct Rotation  
CLOCKWISE Rotation

**High Voltage (208-230v)**





## Wiring Instructions for LT620100 Section 2

Single Phase – **115v/208-230v**

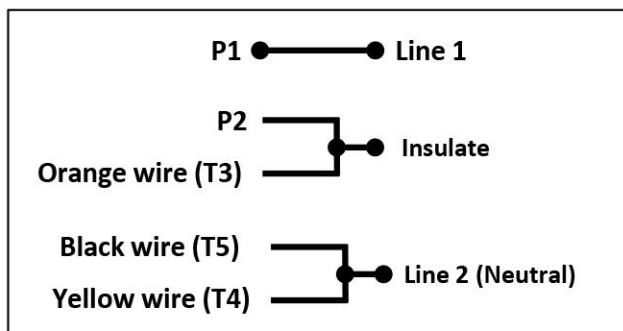
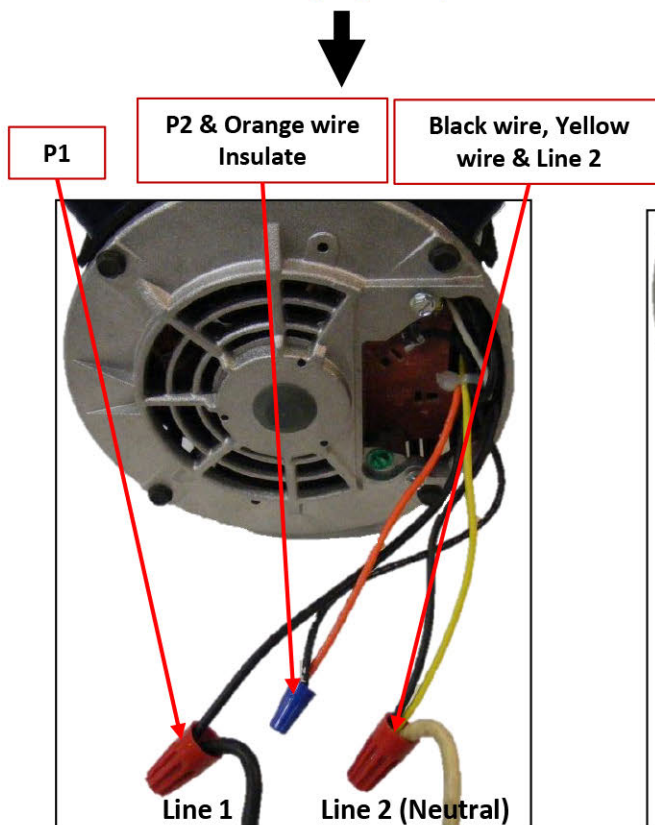
Model Number: LT620100A

### **Important Note:**

Shows Correct Rotation

CLOCKWISE Rotation

**Low Voltage (115v)**

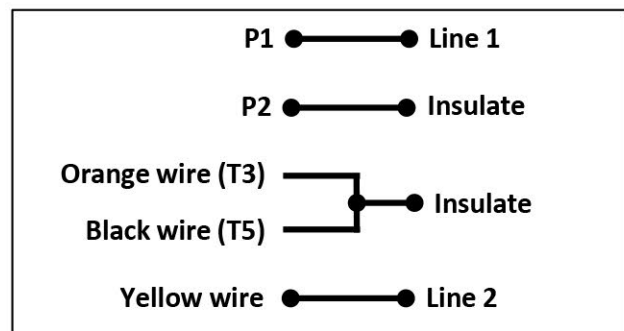
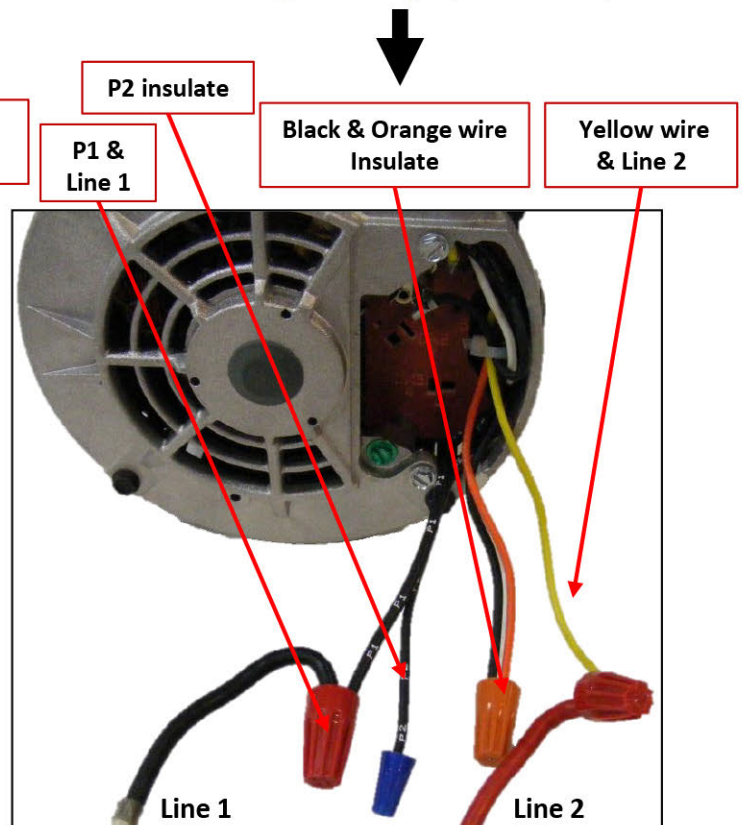


### **Important Note:**

Shows Correct Rotation

CLOCKWISE Rotation

**High Voltage (208-230v)**



## Wiring Instructions for LT900150 Section 2

Single Phase – **115v/208-230v**

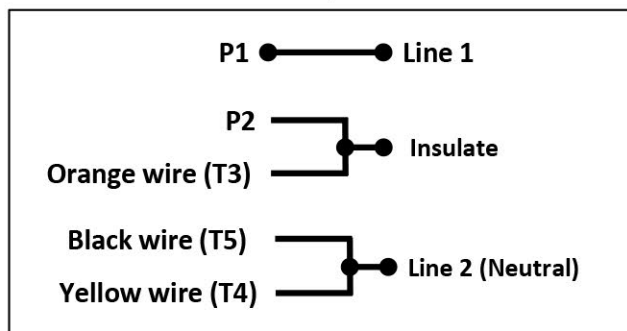
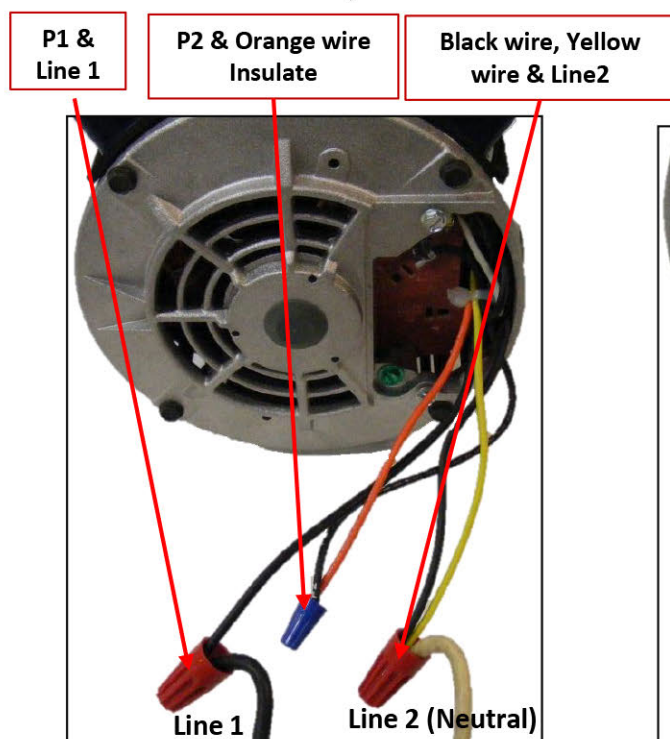
Model Number: LT900150A

### **Important Note:**

Shows Correct Rotation

CLOCKWISE Rotation

**Low Voltage (115v)**

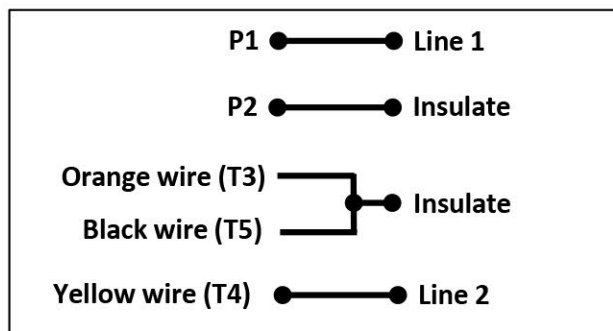
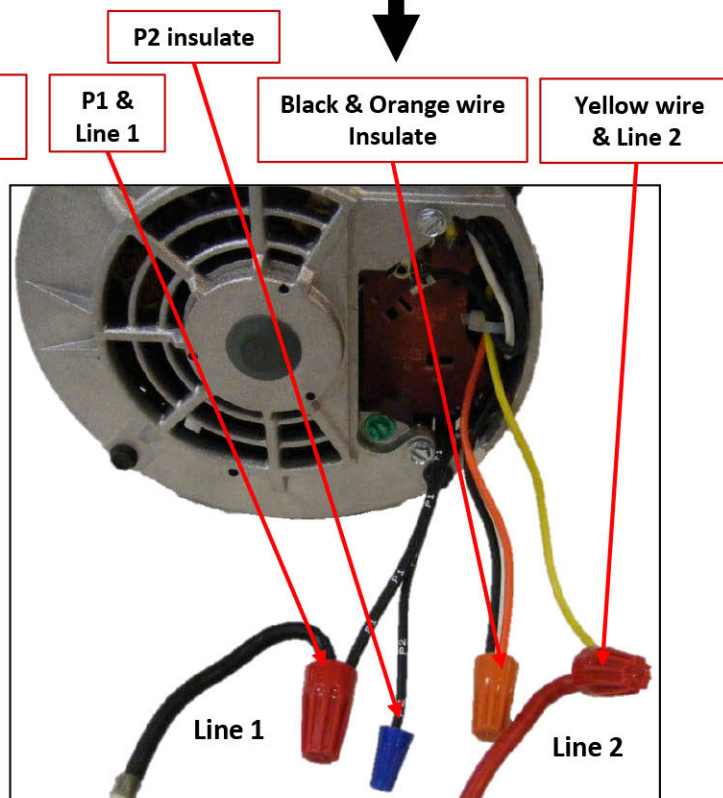


### **Important Note:**

Shows Correct Rotation

CLOCKWISE Rotation

**High Voltage (208-230v)**



# Wiring Instructions for LT2000500 Section 3

Single Phase - High Voltage (208-230v)

Model Number: LT2000500A



Wiring the LT2000500A for  
High Voltage (208-230v)

T1 to T5 to Line 1

T4 to T8 to Line 2

(Shows Correct  
Rotation)

**Important Note:**

Check arrow on flywheel and/or beltguard to verify proper rotation.  
Typical rotation for this unit is *COUNTER-CLOCKWISE* (when viewed  
from the motor shaft side) - wiring diagrams are shown as such.

Wiring Diagram for LT2000500A  
High Voltage (208-230v) - Shows Correct Rotation

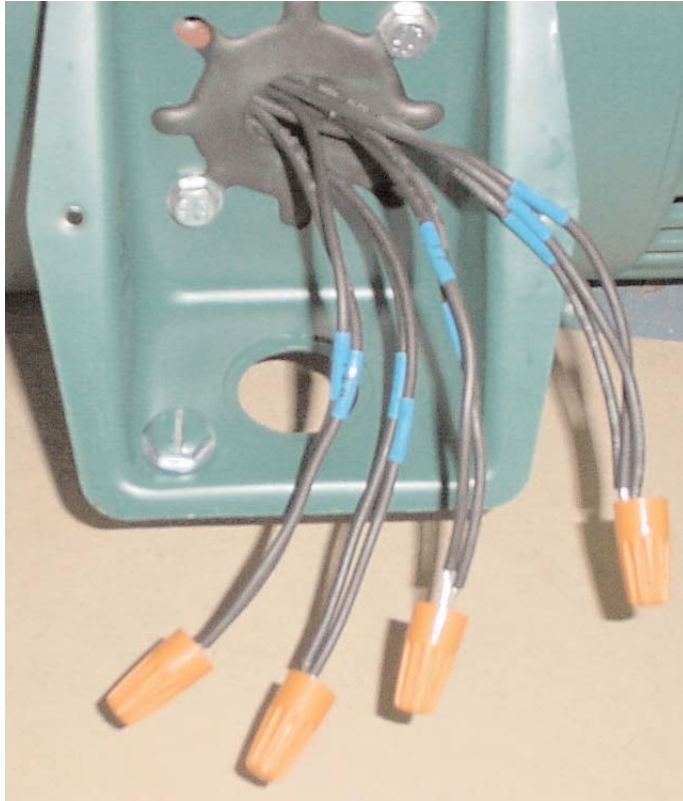
T1 ☐ ——— Line 1  
T5 ☐

T4 ☐ ——— Line 2  
T8 ☐

# Wiring Instructions for LT2000500 Section 4

Three Phase - Low Voltage (208-230v)

Model Number: LT2000500B



Wiring the LT2000500B for  
Low Voltage (208-230v)

T4 to T5 to T6

T7 to T1 (Line)

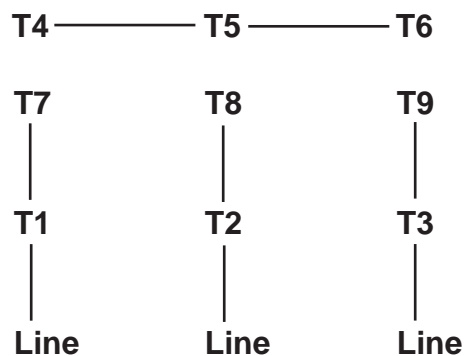
T8 to T2 (Line)

T9 to T3 (Line)

***Important Note:***

For correct rotation, interchange any  
of the three incoming wires (Line).

**Wiring Diagram for LT2000500B  
Low Voltage (208-230v)**

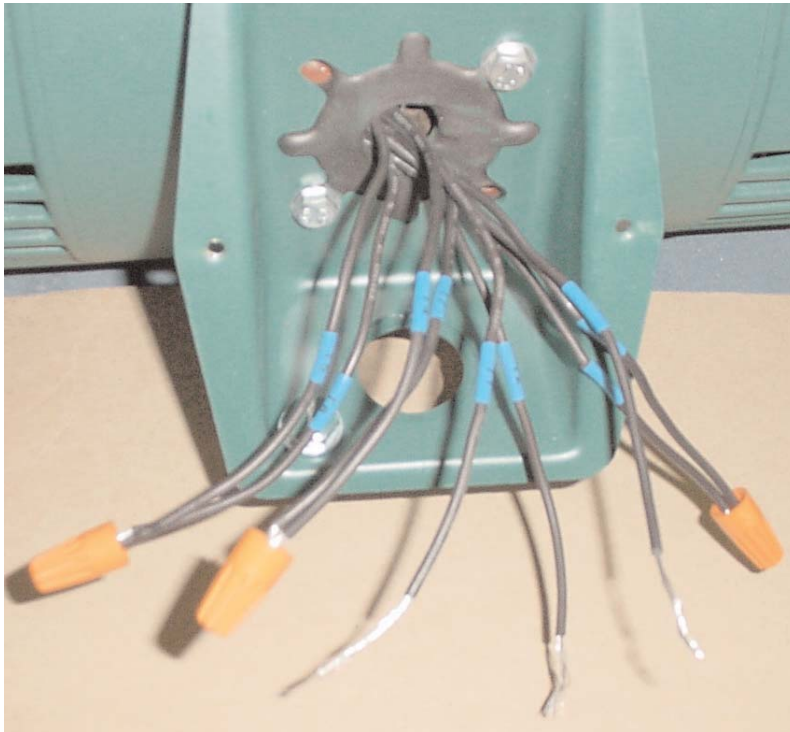




# Wiring Instructions for LT2000500 Section 5

Three Phase - High Voltage (460v)

Model Number: LT2000500B



Wiring the LT2000500B  
for High Voltage (460v)

T1 to Line

T2 to Line

T3 to Line

T4 to T7

T5 to T8

T6 to T9

***Important Note:***

For correct rotation, interchange any  
of the three incoming wires (Line).

Wiring Diagram for LT2000500B  
High Voltage (460v)

T4

|

T7

T1

|

Line

T5

|

T8

T2

|

Line

T6

|

T9

T3

|

Line



# Wiring Instructions for L2500500 Section 3

Single Phase - High Voltage (208-230v)

Model Number: L2500500A



Wiring the L2500500A for  
High Voltage (208-230v)

T1 to T5 to Line 1

T4 to T8 to Line 2

(Shows Correct  
Rotation)

**Important Note:**

Check arrow on flywheel and/or beltguard to verify proper rotation.  
Typical rotation for this unit is *COUNTER-CLOCKWISE* (when viewed  
from the motor shaft side) - wiring diagrams are shown as such.

## Wiring Diagram for L2500500A

High Voltage (208-230v) - Shows Correct Rotation

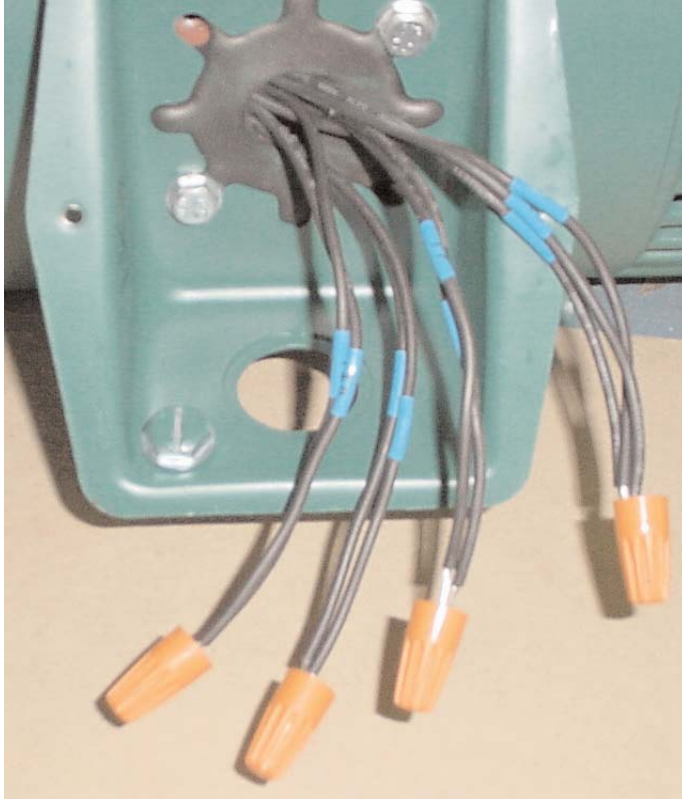
T1 ☐ ——— Line 1  
T5 ☐

T4 ☐ ——— Line 2  
T8 ☐

# Wiring Instructions for L2500500 Section 4

Three Phase - Low Voltage (208-230v)

Model Number: L2500500B



Wiring the L2500500B for  
Low Voltage (208-230v)

T4 to T5 to T6

T7 to T1 (Line)

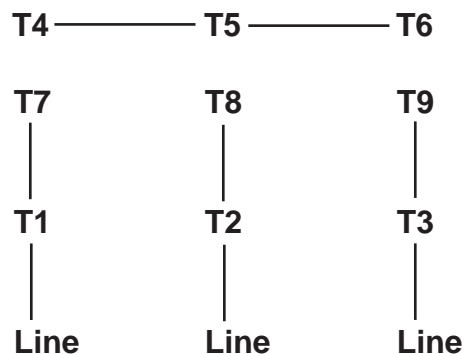
T8 to T2 (Line)

T9 to T3 (Line)

***Important Note:***

For correct rotation, interchange any  
of the three incoming wires (Line).

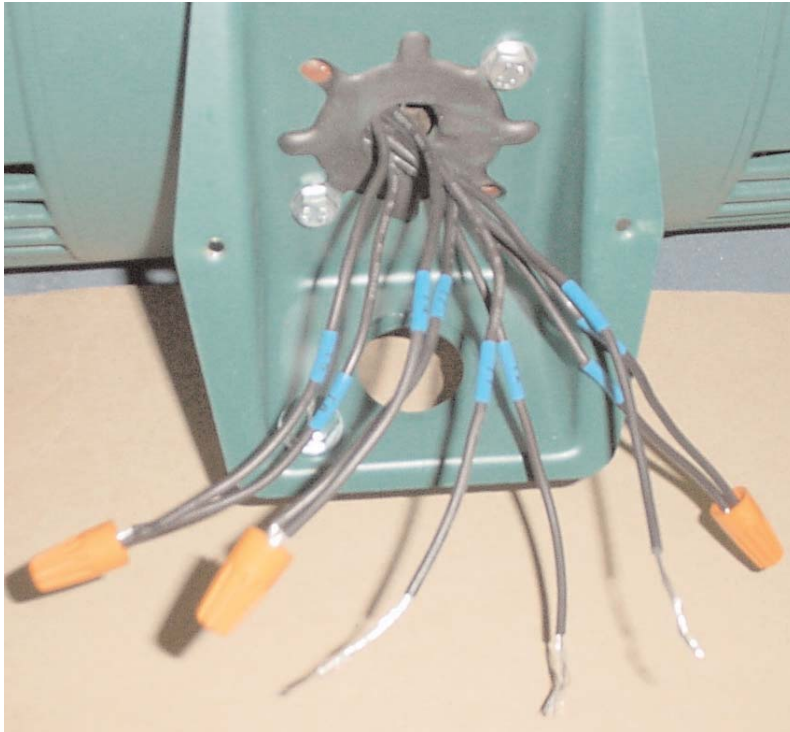
**Wiring Diagram for L2500500B  
Low Voltage (208-230v)**



# Wiring Instructions for L2500500 Section 5

Three Phase - High Voltage (460v)

Model Number: L2500500B



Wiring the L2500500B for  
High Voltage (460v)

T1 to Line

T2 to Line

T3 to Line

T4 to T7

T5 to T8

T6 to T9

***Important Note:***

For correct rotation, interchange any  
of the three incoming wires (Line).

**Wiring Diagram for L2500500B  
High Voltage (460v)**

T4

|

T7

T1

|

Line

T5

|

T8

T2

|

Line

T6

|

T9

T3

|

Line