Diagram Selection
Diagrams are provided for both single- and three-phase circuits, and are readily identified in the Selection Table on the following page. The Selection Table enables easy selection of the correct wiring diagram after the electrical components of the unit heater have been determined. The control codes are listed to aid in locating the correct diagram.

Diagram Interchangeability
The following gas-fired unit heater wiring diagrams are for either 115-volt, 60-Hertz, single-phase power, or for 230-volt, 575-volt, 60 Hertz, three-phase electrical service.

The 115v/60Hz/1φ diagrams may also be utilized for 230v/60Hz/1φ by substituting 230-volt components in the 115-volt shown.

The 230v/60Hz/3φ diagrams may be modified to 460v/60Hz/3φ by adding a 460v to 230v step down transformer and wiring the unit as shown in the wiring “inset” on all 3-phase wiring diagrams.

The 460v/60Hz/3φ diagrams may be modified to 575v/60Hz/3φ by adding a 575v to 230v transformer and wiring the unit as shown in the wiring “inset” on all 3 phase diagrams.

NOTE: As indicated in every diagram, all wiring must comply with the national electrical code and all local codes. All components must agree with their respective power source.

Abbreviations and Symbols
To facilitate interpretation and enable simplification the abbreviations and symbols have been selected as recommended by ANSI (American National Standards Institute) and NEMA (National Electrical Manufacturers Association) standards.

<table>
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<tr>
<th>Abbreviation</th>
<th>Definition</th>
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<td>XFMR or TR</td>
<td>Transformer</td>
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<td>V</td>
<td>Volts</td>
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<td>Hz</td>
<td>Cycle or Hertz</td>
</tr>
<tr>
<td>φ</td>
<td>Phase</td>
</tr>
<tr>
<td>LC</td>
<td>Limit Control</td>
</tr>
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<td>Thermostat</td>
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<td>Pilot Valve</td>
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<td>SO</td>
<td>Shut Off</td>
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<tr>
<td>RC</td>
<td>Relay Contact or Coil</td>
</tr>
<tr>
<td>G</td>
<td>Ground</td>
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<td>H</td>
<td>Hot</td>
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<tr>
<td>SW</td>
<td>Switch</td>
</tr>
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<td>Lo</td>
<td>Low</td>
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<tr>
<td>C</td>
<td>Common</td>
</tr>
<tr>
<td>“J” Box</td>
<td>Junction Box</td>
</tr>
<tr>
<td>H1, H2, etc.</td>
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<tr>
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<td>Summer Contact (Summer/Winter Switch)</td>
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<tr>
<td>WIN</td>
<td>Winter Contact (Summer/Winter Switch)</td>
</tr>
<tr>
<td>S-W</td>
<td>Summer/Winter Switch</td>
</tr>
<tr>
<td>O.L.C.</td>
<td>Overload Contact</td>
</tr>
<tr>
<td>C.S.</td>
<td>Power Venter Centrifugal Switch</td>
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<tr>
<td>FTC</td>
<td>Fan Timer Contact</td>
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<td>SPDT</td>
<td>Single-Pole Double-Throw Switch</td>
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<tr>
<td>VA</td>
<td>Volt-Ampere</td>
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<tr>
<td>W</td>
<td>Watts</td>
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<tr>
<td>X1, X2, etc.</td>
<td>Transformer Secondary Terminals</td>
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<tr>
<td>L1, L2, etc.</td>
<td>Electric Load Terminals</td>
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<tr>
<td>T1, T2, etc.</td>
<td>Starter or Motor Terminals</td>
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CAUTION
Turn off all power and gas to unit before wiring. Failure to wire this unit according to the specified wiring diagram may result in injury to the installer or user. For deviations, contact factory.
## MOTOR DATA

### Table 1

**Power Code Description — Propeller PV Models**

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<th>PV 125</th>
<th>PV 145</th>
<th>PV 175</th>
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**Motor Data and Unit Power Requirement — Propeller PV Models**

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<th>200/60/3</th>
<th>230/460/60/3</th>
</tr>
</thead>
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<td>Mtr. Rpm</td>
<td>Mtr. Amps</td>
<td>Mtr. Rpm</td>
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### Table 3

**Motor Data and Unit Power Requirements — Blower BV Models**

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<th>200/60/3</th>
<th>230/460/60/3</th>
<th>575/60/3</th>
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<td>HP</td>
<td>Mtr. Amps</td>
<td>Mtr. Rpm</td>
<td>Mtr. Amps</td>
<td>Mtr. Rpm</td>
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</table>
WIRING DIAGRAM SELECTION

Wiring Diagram Selection

A. Field and Submittal Wiring Diagram Selection

Wiring in the field changes little when the brand of the controls furnished on the unit heater changes. Select correct wiring diagrams as follows:

1. Determine unit heater model and size.
2. Select control code number from Table 4.
3. Reference unit heater model in the Page Location Index with control code number and determine correct page number for single-phase or three-phase control. Single-phase wiring diagram page numbers are in the upper left of box and three-phase diagrams are in the lower right of box.
4. Wiring diagrams for unit heat accessories are listed in Table 5. Use the accessory diagrams along with the unit wiring diagrams for complete wiring instructions.

B. Service and Troubleshooting

Because internal or factory wiring may vary depending on controls manufacturer, the wiring diagrams must be selected with the series identity number when servicing or troubleshooting unit heater control system. Wiring diagrams in this bulletin are for unit heaters manufactured after April 1995. The series identity number is the 5th through the 7th digits of the unit heater serial number.

Example Selection

Select correct single-phase wiring diagram for a PV 175A Control Code 11, series identity number 101.

Locate the page which shows the wiring diagram number for PV and BV units with series identity number 101 (see page iii). Select the page number where the column for the PV 175 intersects with the line for control code 11. The correct wiring diagram can be found on page 9 as shown in the upper left hand corner of box. If this unit also had a summer/winter switch, the accessory wiring diagram found on page C-1 as per Table 5 would also be required for complete wiring information.

Two-in-One Diagrams

Two wiring diagrams are furnished for each circuit configuration in this manual. Included are a connection diagram at the left for field installation and circuit schematic at the right to aid in continuity and troubleshooting.

Table 4

<table>
<thead>
<tr>
<th>Control Code Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>11, 12, 13, 14</td>
<td>Single-stage, Standing pilot, 100% shut-off, Natural gas.</td>
</tr>
<tr>
<td>30, 31, 32, 33</td>
<td>Single-stage, Intermittent pilot ignition, 100% shut-off with continuous retry, Natural gas.</td>
</tr>
<tr>
<td>59, 60</td>
<td>Mechanical modulation with automatic pilot ignition, 100% shut-off with continuous retry, Natural gas, BV only.</td>
</tr>
<tr>
<td>63, 64</td>
<td>Two-stage, Intermittent pilot ignition, 100% shut-off continuous retry, Natural gas.</td>
</tr>
<tr>
<td>81, 82, 91, 92</td>
<td>Single-stage, Standing pilot, 100% shut-off, Propane gas.</td>
</tr>
<tr>
<td>85, 86, 93, 94</td>
<td>Single-stage, Intermittent pilot ignition, 100% shut-off with continuous retry, Propane gas.</td>
</tr>
<tr>
<td>87, 88</td>
<td>Two-stage, Intermittent pilot ignition, 100% shut-off with continuous retry, Propane gas.</td>
</tr>
<tr>
<td>89, 90</td>
<td>Mechanical modulation with automatic pilot ignition, 100% shut-off with continuous retry, Propane gas, BV only.</td>
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</table>

Table 5

Accessory Wiring Diagram Page Location Index

<table>
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<th>Page</th>
<th>Accessory</th>
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<tbody>
<tr>
<td>C-1</td>
<td>Summer/winter switch</td>
</tr>
<tr>
<td>C-2</td>
<td>Energy-saver kit</td>
</tr>
</tbody>
</table>

① See paragraph A, step 4 under “wiring diagram selection”.

Example: Serial no. — 15101010495-0098 has a series identity number of 101.

To select the correct wiring diagram:

1. Determine unit heater model and size from serial plate located on the side of the unit.
2. Determine the control code numbers from box marked Control Code, also on the serial plate.
3. Determine the series identity number of the unit heater, then proceed with Step 3 of Field and Submittal Wiring Diagram Selection.
### Series Identity 101

#### Table 6
**Models PV or BV Page Location Index**

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### Series Identity 102

#### Table 7
**Models PV or BV Page Location Index**

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1️⃣ Cell format represents single or three phase power as shown in the following example.

1Ph

3Ph
### Table 8
Models PV or BV Page Location Index

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### Table 9
Models PV or BV Page Location Index

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1. **Cell format represents single or three phase power as shown in the following example.**

| 1Ph | 3Ph |

---

iv
## Series Identity 105

**Table 10**

Models PV or BV Page Location Index ➊

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## Series Identity 106

**Table 11**

Models PV or BV Page Location Index ➋

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</table>

➊  Cell format represents single or three phase power as shown in the following example.

```
1Ph
3Ph
```
Two-Stage, Intermittent Pilot Ignition, 100% Shut-off, with continuous retry. Three-phase.
Single Phase — 5H73595C2

Rev A

5H73595C2 Mechanical Modulation, Automatic Electronic Pilot Ignition, 100% Shut-off, with continuous retry, Single-phase.
Three Phase — 5H73595C2   Rev A
Single Phase — 5H73595C3  Rev A
Mechanical Modulation, Automatic Electronic Pilot Ignition with continuous retry.
Three-phase.
Single Phase — 5H73595C4

Rev A

CAUTION
FAILURE TO WIRING THIS UNIT IN ACCORDANCE TO THIS WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER.
FOR DEVIATIONS CONTACT THE FACTORY.

CIRCUIT BREAKER
(64 BY OTHERS)
110V/50Hz/120POWER SHOWN
L1(BK) L2(W) L3(Y)
SECOND CIRCUIT BREAKER RED D
FOR 230V, 400V, 3Ph

NOTE TO INSTALLER
ATTACH THIS DIAGRAM NEAR HEATER
ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES.
ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE.
USE 105°C WIRE FOR REPLACEMENTS.

5H73595C4 REV A Single-Stage, Intermittent Pilot Ignition, 100% Shut-off, with continuous retrv. Single-phase

WIRING LEGEND
FACTORY FIELD WIRE NUT

CIRCUIT BREAKER
(64 BY OTHERS)

110V/50Hz/120POWER SHOWN
L1(BK) L2(W) L3(Y)
SECOND CIRCUIT BREAKER RED D
FOR 230V, 400V, 3Ph

TO RELAY TDC
TO RELAY TDC

TO RELAY HEATER

TO IGNITION CONTROLLER
"PV"

TO IGNITION CONTROLLER
"PV"

INDICATES TERMINAL BOARD CONNECTION
Single Phase — 5H73595C7
Rev A

Failure to wire this unit according to this wiring diagram may result in injury to the installer or user. For deviations contact the factory.

Circuit Breaker (By Others):
115V/60Hz/1Gf Power Shown
L1(BK) L2(W)

Second Circuit Breaker Red D for 230V, 200V, 1Gf

Power Exchanger Motor G

Limit Control

Fan Motor BL R

Pressure Switch

Terminal Board

Combination Gas Control

S8600 Controller

Note to installer:
Attach this diagram near heater.

All wiring must comply with national electric code and all local codes.

All components must agree with their respective power source.

Use 105°C wire for replacements.

* Alternate Xfr
Primary Xfr Wires
230V/60Hz/1Gf - BK & Y (OR Q)
200V/60Hz/1Gf - BK & R
Wire nut the wire not used.

5H73595C7 Rev A
Single-phase, Intermittent Pilot Ignition, 100% Shut-off with continuous retry,
Fan time delay, Low-voltage thermostat.
CAUTION
FAILURE TO WIRE THIS UNIT ACCORDING TO THE WIRING DIAGRAM MAY RESULT IN INJURY TO THE INSTALLER OR USER. FOR DEVIATIONS CONTACT THE FACTORY.

CIRCUIT BREAKER
(ONLY BY OTHERS)
L1 (BK)
L2 (W)
SECOND CIRCUIT
BREAKER N/D.
FOR 230V, 200V, 120.

POWER EXHAUSTER
TO MOTOR
FAN
THERMISTOR
T-O RELAY
J-BOX
BLK
ALTERNATE
COMBINATION GAS CONTROL
TO IGNITION CONTROLLER "A1"
TO IGNITION CONTROLLER "B1"

PRESS SWITCH
TERMINAL BOARD

TO RELAY TO RELAY
THERM 24V 115V

TO RELAY HEATER
PRESSURE SWITCH
LIMIT CONTROL

IGNITOR

IGNITOR

NOTE TO INSTALLER.
ATTACH THIS DIAGRAM NEAR HEATER.
ALL WIRING MUST COMPLY WITH NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES.
ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE.
USE 105°C WIRE FOR REPLACEMENTS.

5H73595CB REV
Single-Stage, Intermittent Pilot Ignition. 100% Shut-off, with continuous retrv. Single-phase.
Single-Stage, Intermittent Pilot Ignition, 100% Shut-off, with continuous retry, Three-phase.
NOTE TO INSTALLER: ATTACH THIS DIAGRAM NEAR HEATER.
ALL WIRING MUST COMPLY WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES.
ALL COMPONENTS MUST AGREE WITH THEIR RESPECTIVE POWER SOURCE.
USE 12AWG WIRE FOR REPLACEMENTS.

5H73595B10 REV Single Stage, Standing Pilot, 100% Shut-off, Three-phase.
5874602B11

Three Phase — 5H7369B11
Rev A

Caution
Failure to wire this unit according to this wiring diagram may result in injury to the installer or user. For deviations contact the factory.

Note to installer
Attach this diagram rear heater.
All wiring must comply with national electric code and all local codes.
All components must agree with their respective power source.
Use 105° wire for replacements.

Single-Stage, Standing Pilot, 100% Shut-off, Three-phase.
Single-stage, Intermittent Pilot Ignition, 100% Shut-off with continuous retry, Fan time delay, Low-voltage thermostat.
UNIT HEATER WIRING DIAGRAM

Caution
Failure to wire this unit according to this wiring diagram may result in injury to the installer or user. For deviations contact the factory.

Note to installer:
Attach this diagram near heater.
All wiring must comply with national electric code and all local codes.
All components must agree with their respective power source.
Use 105°C wire for replacements.

Two-Stage, Intermittent Pilot Ignition, 100% Shut-off, with continuous retry. Single-phase.
Failure to wire this unit according to this wiring diagram may result in injury to the installer or user.
For deviations contact the factory.

Note to installer:
Attach this diagram near heater.
All wiring must comply with national electric code and all local codes.
All components must agree with their respective power source.
Use 10ga wire for replacements.

Two-Stage, Intermittent Pilot Ignition, 100% Shut-off, with continuous burn, Three-phase.
Caution
Failure to wire this unit according to this wiring diagram may result in injury to the installer or user. For deviations consult the factory.

Note to Installer:
Attach this diagram near heater.
All wiring must comply with national electric code and all local codes.
All components must agree with their respective power source. Use 10AWG wire for replacements.

Mechanical Modulation, Automatic Electronic Pilot Ignition, 100% Shut-off with continuous retry, Three-phase.
Mechanical Modulation, Automatic Electronic Pilot Ignition, 100% Shut-off with continuous retry, Three-phase.
Single Phase — 5H74602C4
Caution
Failure to wire this unit according to this wiring diagram may result in injury to the installer or user. For deviations contact the factory.

Note to installer:
Attach this diagram near heater.
All wiring must comply with national electric code and all local codes.
All components must agree with their respective power source.
Use 108" wire for replacements.

Single-Stage, Standing Pilot, 100% Shut-off, Single-phase.
Caution
Failure to wire this unit according to this wiring diagram may result in injury to the installer or user. For deviations contact the factory.

Note to installer:
Attach this diagram near heater.
All wiring must comply with national electric code and all local codes.
All components must agree with their respective power source.
Use 105° wire for replacements.

Single-Stage, Standing Pilot, 100% Shut-off, Single-phase.
Three Phase — 5874602C6

Caution:
Failure to wire this unit according to this wiring diagram may result in injury to the installer or user. For deviations contact the factory.

Note to installer:
Attach this diagram, rear panel, all wiring must comply with National electric code and all local codes. All components must agree with their respective power source. Use 10G wire for replacement.

5874602C6 Single Stage, Standing Pilot, 100% Shut-off, Three-phase.
Single Phase - 5H74602C7

**Caution**
Failure to wire this unit according to this wiring diagram may result in injury to the installer or user. For deviations contact the factory.

**Note to Installer:**
Attach this diagram near heater.
All wiring must comply with national electric code and all local codes.
All components must agree with their respective power source.
Use #12" wire for replacements.

Single-stage, Intermittent Pilot Ignition, 100% Shut-off, with continuous retry. Single-phase
Single-Stage, Intermittent Pilot Ignition, 100% Shut-off, with continuous retry. Single-phase
Three Phase — 574602B9

Caution
Failure to wire this unit according to this wiring diagram may result in injury to the installer or user. For deviations contact the factory.

Note to installer:
Attach this diagram near heater.

All wiring must comply with national electric code and all local codes.
All components must agree with their respective power source.
Use 105° wire for replacements.

Single-Stage, Intermittent Pilot Ignition. 100% Shut-off, with continuous retry. Three-phase.

Indicates Terminal Board Connection
Three Phase—SH74602B10

**Wiring Legend**

- Factory
- Line
- 24V
- Wire Nut

450V/50Hz/32A Power Shown
Circuit Breaker (By Others)

3 Phase Starter
(By Others)

Caution: Failure to wire this unit according to this wiring diagram may result in injury to the installer or user. For deviations, contact the factory.

Note to installer:
Attach this diagram near heater.
All wiring must comply with national electric code and all local codes.
All components must agree with their respective power source.
Use 105° wire for replacements.

Single-Stage, Standing Pilot, 100% Shut-off, Three-phase.
Three Phase — 5H74602B11

Caution
Failure to wire this unit according to this wiring diagram may result in injury to the installer or user. For deviations contact the factory.

Note to Installer:
Attach this diagram near heater.
All wiring must comply with national electric code and all local codes.
All components must agree with their respective power source.
Use 105° wire for replacements.

5H74602B11 Single-Stage, Standing Pilot, 100% Shut-off, Three-phase.

Indicates Terminal Board Connection
Three Phase — SH74602B12

Failure to wire this unit according to this wiring diagram may result in injury to the installer or user. For deviations contact the factory.

Note to Installer:
Attach this diagram near heater.
All wiring must comply with national electric code and all local codes.
All components must agree with their respective power source.
Use 105° wire for replacements.

5H74602B12 Single-Stage, Intermittent Pilot Ignition, 100% Shut-off with continuous retry, Three-phase.

Indicates Terminal Board Connection.
Before proceeding with wiring the accessories described, make sure the unit has been installed, vented, piped, and wired according to the Installation/Service Manual and Standard Wiring Diagram furnished with this unit heater.

1. Turn off gas and power supply to unit.
2. Determine which method of summer/winter control is desired; Figure 1, 2 or 3.
3. Wire unit according to the method selected. **NOTE:** If the method selected is as described in Figure 3, the factory supplied buss bar between terminals “T2” and “F” must be removed prior to wiring in thermostat and subbase.
4. Check wiring using the Check-Out Procedure below.

**Check-Out Procedure**

With the power and gas supply turned off, set the thermostat to its lowest setting and place the summer/winter switch to the winter position. After making these adjustments proceed as follows:

1. Turn on gas and power supply to the unit. Nothing should happen.
2. Place the summer/winter switch in the summer position. The fan motor should start, except when wired as shown in Figure 3. In that case, after a delay of approximately 30 seconds, the fan motor should start.
3. While the summer/winter switch is still in the summer position, and with the fan motor running, turn the thermostat up to call for heat. The main burner should now fire. Allow burner to fire for 1 to 2 minutes.
4. Turn the thermostat down again. The main burner should shut off and the fan motor should continue to run. During this step, allow the fan to run at least 1-1/2 minutes to make sure it will continue running. Modine units are equipped with a time delay relay and the motor will run approximately 1 to 1-1/2 minutes after the time delay relay has been de-energized.
5. After insuring that the fan motor will continue to run in the summer position, and with the thermostat set to its lowest setting, place the summer/winter switch in the winter position and wait for the time delay relay to turn the fan motor off.
6. After the fan motor has stopped, and with the summer/winter switch in the winter position, turn the thermostat up to call for heat. The main burner should fire and after a delay of approximately 30 seconds, the fan motor should run.

If the above sequence of operation does not occur, recheck all wiring until the necessary correction to the wiring is found and corrected. Set the thermostat to the desired set point and place summer/winter switch in desired position. Unit is now ready for use.
Energy-Saver Kit Wiring
Power Exhausted, Propeller and Blower Models - Single and Three phase.

NOTE: Energy saver accessory wiring diagram is to be used in conjunction with unit wiring diagram.

--- CAUTION ---

Turn off all power and gas to unit before wiring. Failure to wire this unit according to this wiring diagram may result in injury to the installer or user. For deviations, contact factory.

Before proceeding with wiring the accessories described, make sure the unit has been installed, vented, piped and wired according to the Installation/Service Manual and Standard Wiring Diagram furnished with the unit heater.

Installation
All wiring for this control must comply with the National Electric Code and all local codes and ordinances.

Do not locate control on an outside wall or where it will be affected by drafts or radiant heat. It does not require level mounting.

1. Remove front cover and one wiring access knockout from control.
2. Attach control to mounting surface with three screws through back of case. Use a wooden shim for insulation if surface is metal or masonry.
3. Thread two wires through knockout and connect to R and W control terminals. Leads must be long enough to extend to unit heater junction box.
4. Disconnect power to unit heater and open junction box on unit heater. Select correct wiring diagram for unit heater model (and size if applicable) and complete wiring of control to unit.

Operational Check
1. Set room thermostat to its lowest setting and restore power supply to unit heater.
2. Familiarize yourself with the adjustment knob of the energy-saver control. In step 5 you will want to set it at 3-6 degrees (approximately) above the thermostat, but for now, turning the dial clockwise to a lower setting simulates a rise in temperature and only the unit heater fan should come on. If the wiring is correct, the controlled equipment will switch on and off as the temperature dial indicates the approximate space temperature.
3. If the controlled equipment does not start and stop as the thermostat dial is turned, disconnect the power supply and check the wiring and terminal connections.
4. If the controlled equipment operates opposite to the sequence desired, shut off the power and check for reversed leads on the switch.
5. After checkout, reset room thermostat to desired comfort level. Set energy-saver control 3 to 6 degrees above room thermostat (depending on mounting height, room conditions, etc.) for ceiling air circulation.

Wiring Instructions
1. Turn off power to unit heater.
2. Connect “R” of Energy Saver to terminal 2 of time delay relay.

Diagram:

```
From power supply
   W  R  B

   TD Relay
   TDC

   2    4

   (on units with 1Ø power supply this is fan motor or on units with 3Ø power supply this is the starter coil)

   To XFMR
```
For local parts and service assistance, contact one of the following:

KANSAS
Jornan Riscoe Assoc.
Kansas City, KS  
(913) 722-1244

MICHIGAN
Sales & Dist.
Petoskey, MI  
(989) 356-2733

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Minneapolis, MN  
(612) 544-8626

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(716) 688-1403

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