

M5S Burner Isolation Kit

INSTALLATION INSTRUCTIONS

IMPORTANT SAFETY INFORMATION

Please read all instructions before installing these components. Pay attention to all safety warnings and any other special notes highlighted in the manual. Safety markings are used frequently throughout this manual to designate a degree or level of seriousness and should not be ignored.

WARNING indicates a potentially hazardous situation that if not avoided, could result in personal injury or death.

WARNING:

RISK OF ELECTRICAL SHOCK

Shut off all electrical power to the unit before performing any maintenance or service on the system. Failure to follow this warning can cause serious injury, fire, electrical shock, or death.

WARNING:

This kit must be installed by a qualified service technician in accordance with these instructions and all codes having jurisdiction. Failure to follow these instructions could result in possible equipment damage, serious personal injury, or death.

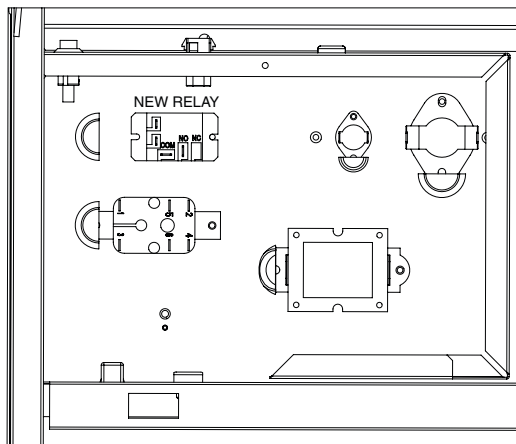


Figure 1. Burner Isolation Kit

DESCRIPTION	PART NUMBER	QTY
Relay	624843	1
20" Wire (Gray)	1018468	1
20" Wire (Blue)	1018510	1
Screws	600255	2
Terminals	632485	2
Wiring Diagram	1018474	1
Instllation Instructions	1018473	1

Table 1. Materials List

ABOUT THE ISOLATION KIT

This kit is to adapt an M5 installation to be compatible with thermostats with only one transformer terminal or to isolate the transformer on the oil burner. The single **R** terminal of the thermostat connects to the fused terminal of the furnace. The existing **W** & **C** connections of the furnace are connected to the coils side of the relay included in this kit. The **NO** and **COM** terminals of the relay are connected to the thermostat terminals of the oil gun (**T** & **T**). The function of this relay is to prevent the furnace transformers and the burner transformer from being out of phase. This kit includes one relay, two wires that lead from the relay to the oil gun, two screws, and two terminals. See Table 1 for a complete list of parts and their part numbers.

These instructions are primarily intended to assist qualified individuals experienced in the proper installation of these components. Some local codes may require licensed installation/service personnel for this type of equipment. Safety should always be the deciding factor when installing this product and using common sense plays an important role as well. Improper installation of the components or failure to follow safety warnings could result in serious injury, death, or property damage. The installer performing this work assumes all responsibility when installing this kit.

INSTALLING THE ISOLATION KIT

1. **IMPORTANT!** Make sure power is turned off to the furnace.
2. Mount the new relay into the electrical box using two screws that are provided in the kit. See Figure 1.
3. Disconnect the two wires from the **T-T** terminals on the oil gun burner. Route them up through the grommet into the electrical box.
4. Cut the wires from step 3. To the appropriate length and strip off ½" from the end. Crimp on the two 20" wires provided in the kit to the **NO** and **COM** terminals on the new relay.
5. Connect the two wires (from step 4) to the coil terminals of the relay. Connect the two 20" wires (provided in the kit) to the **NO** and **COM** relay terminals. See Figure 1.
6. Route the other end of the wires (from the **NO** and **COM** relay terminals) through the grommet in the electrical box.
7. Connect the 20" wires (from step 6) to their corresponding terminals on the oil gun burner control panel. See Figure 2.
8. Affix the new wiring diagram label over the old label. Make sure the new label covers all of the old wiring diagram.

WIRING DIAGRAM

M5S Furnace Series

120 Volt

Single Phase / 60 Hz

NOTES:

1. Incoming power must be polarized. Observe color coding.
(See furnace data label for electrical information.)
2. If any of the original wires (as supplied with the appliance) must be replaced, use 105°C Thermoplastic type wire or its equivalent.
3. On models M1(B,S)A and M1/M5(B,S)086 jumper wire is installed.
On all other models, cooling speed is connected to black wire.
4. A/C Heating Speeds: Refer to Table 12, A/C Blower Selection
5. If any of the original wire supplied with the appliance is replaced, use 105°C wire or equivalent.
6. Use copper conductors only.
7. Flash Codes: Refer to Table 9, Control Module Status Indicators.

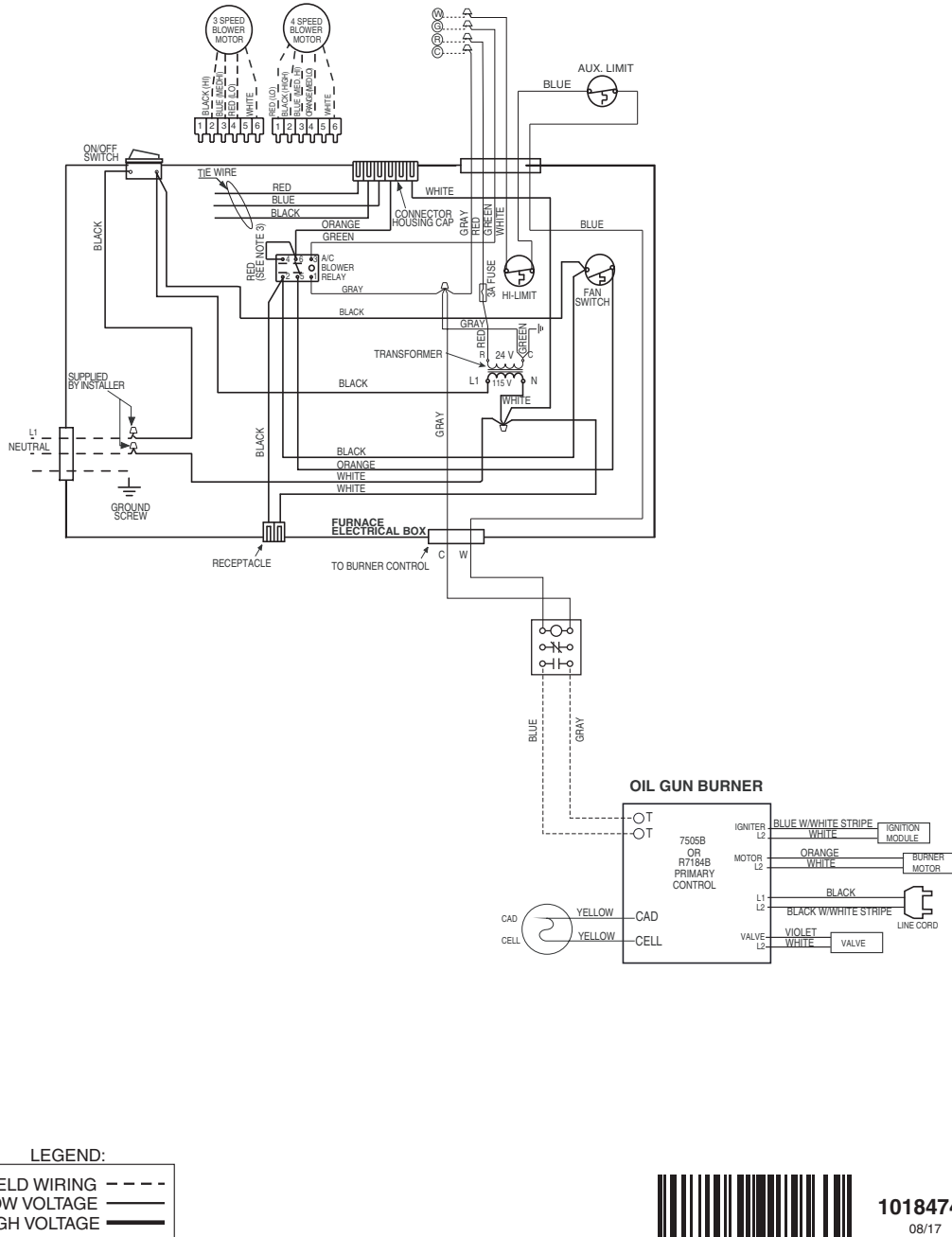


Figure 2. Wiring Diagram

