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Low Voltage Wiring Diagrams

NOTE: Read the entire instruction manual before starting the installation.

SAFETY CONSIDERATIONS

Improper installation, adjustment, alteration, service, maintenance, or use can cause fire, electrical shock, or other conditions which may cause personal injury or property damage. Consult a qualified installer, for information or assistance. The qualified installer must use factory-authorized kits or accessories when modifying this product. Refer to the individual instructions packaged with the kits or accessories when installing.

Follow all safety codes and wear safety glasses. Read these instructions thoroughly and follow all warnings or cautions attached to the unit. Consult local and state building codes and Sheet Metal and Air Conditioning National Association (SMACNA) for special installation requirements.

Recognize safety information. This is the safety-alert symbol . When you see this symbol on the unit or in instructions and manuals, be alert to the potential for personal injury.

Understand the signal words DANGER, WARNING, and CAUTION. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which **will** result in severe personal injury or death. WARNING signifies hazards which **could** result in personal injury or death. CAUTION is used to identify unsafe practices which **would** result in minor personal injury or product and property damage.

WIRING DIAGRAM NOTES

1. Refer to Fan Coil Installation Instructions for features and additional wiring information
2. To activate dehumidify function on FK or FV series, remove J1 jumper at fan coil control board.
3. Heat pump **must** have a high pressure switch for dual fuel applications.
4. Refer to outdoor equipment Installation Instructions for proper setup.
5. Select the "zone" position on the 2-speed heat pump control board. This applies only to 38YDA (R-22 units).
6. As an option O/W2 can be used to allow Thermidistat to control second-stage heat. Refer to indoor unit Installation Instructions for proper setup.
7. As an option, Y1/W2 can be used to allow Thermidistat to control third-stage heat. Refer to indoor unit Installation Instructions for proper setup.
8. Furnace must control its own second-stage heat operation via furnace control algorithm.
9. Outdoor air sensor must be attached in all dual fuel applications.
10. Refer to indoor equipment Installation Instructions for proper setup.

Wiring Diagram Reference Chart

EQUIPMENT SELECTOR	SINGLE SPEED AIR CONDITIONER	TWO SPEED AIR CONDITIONER	SINGLE SPEED HEAT PUMP	TWO SPEED HEAT PUMP
Typical Fan Coil	Fig. 1	Fig. 2	Fig. 3	Fig. 4
FK/FV Series Fan Coil	Fig. 5	Fig. 6	Fig. 7	Fig. 8
1-Stage Furnace	Fig. 9	Fig. 10	Fig. 11	Fig. 12
2-Stage Furnace	Fig. 13	Fig. 14	Fig. 15	Fig. 16
Variable Speed 2-Stage Non-Condensing Furnace	Fig. 17	Fig. 18	Fig. 19	Fig. 20
Variable Speed 2-Stage Condensing Furnace With DE Connection	Fig. 21	Fig. 22	Fig. 23	Fig. 24

11. To activate dehumidify feature on older style variable-speed furnaces (Carrier 58MVP) that do not have a DE connection, a pilot duty 24-vac relay must be used.
12. To activate dehumidify feature on current style variable-speed 80 percent non-condensing furnace, disconnect green (DEHUM) wire from G on furnace control board and connect to dehumidify terminal on Thermidistat Control.
13. Dip switch No. 1 should be set in **OFF** position for air conditioner installations. This is factory default.
14. Dip switch No. 1 should be set in **ON** position for heat pump installations.
15. Dip switch No. 2 should be set in **OFF** position for single-speed compressor operation. This is factory default.
16. Dip switch No. 2 should be set in **ON** position for 2-speed compressor operation.
17. Configuration Option No. 10 "Dual Fuel Selection" must be turned ON in all dual fuel applications.
18. Remove DE jumper to enable DEHUM input on furnace control board.
19. **No** connection should be made to the furnace HUM terminal.

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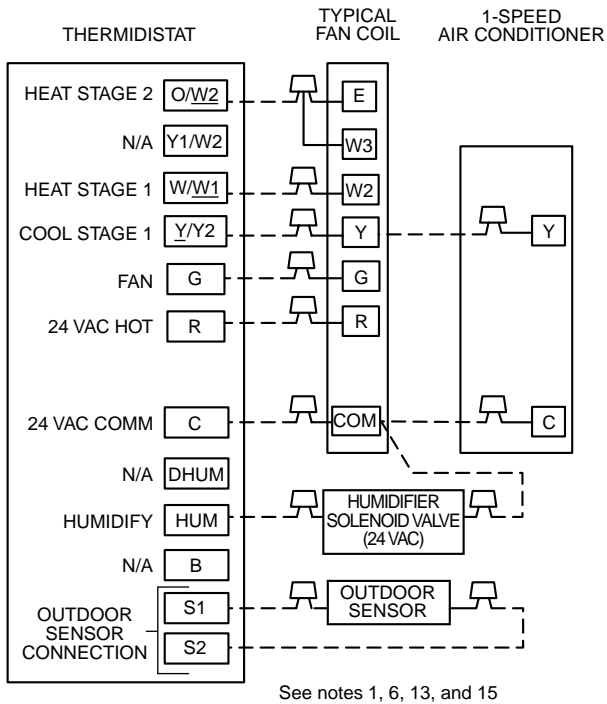


Fig. 1—Typical Fan Coil With 1-Speed Air Conditioner

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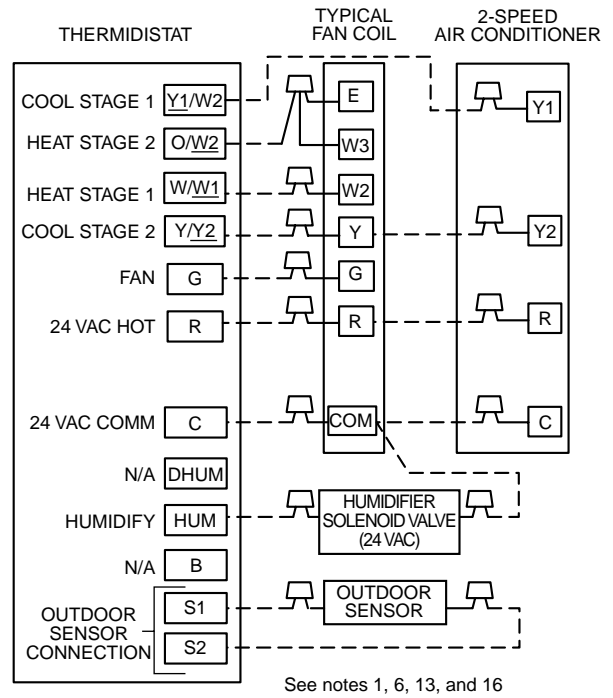


Fig. 2—Typical Fan Coil With 2-Speed Air Conditioner

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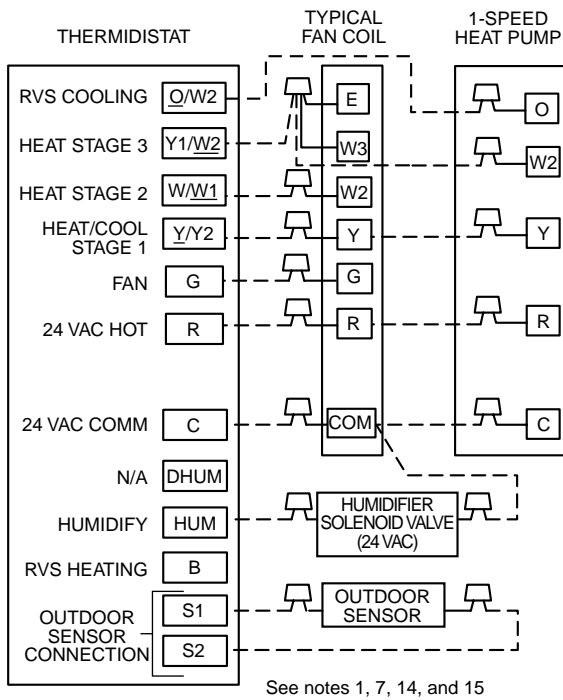


Fig. 3—Typical Fan Coil With 1-Speed Heat Pump

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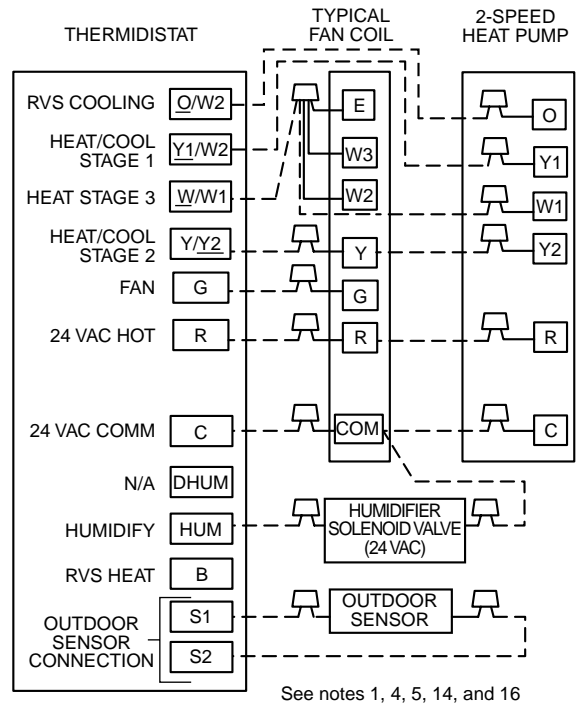


Fig. 4—Typical Fan Coil With 2-Speed Heat Pump

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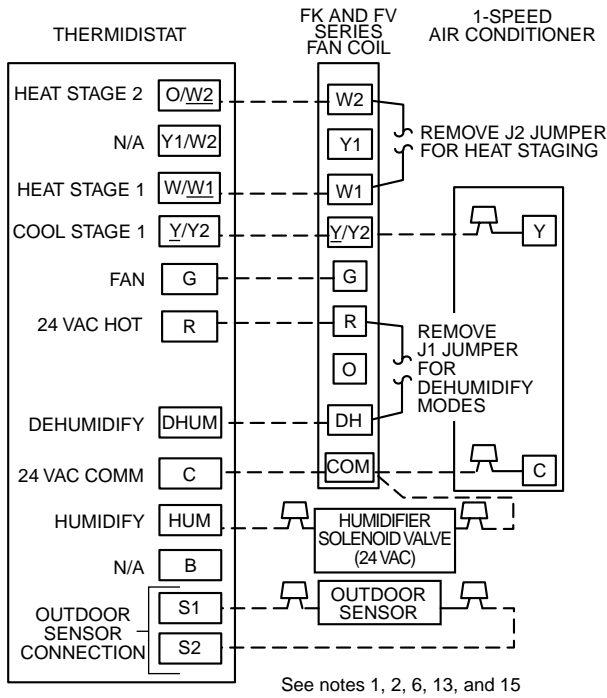


Fig. 5—FK and FV Series Fan Coil With 1-Speed Air Conditioner

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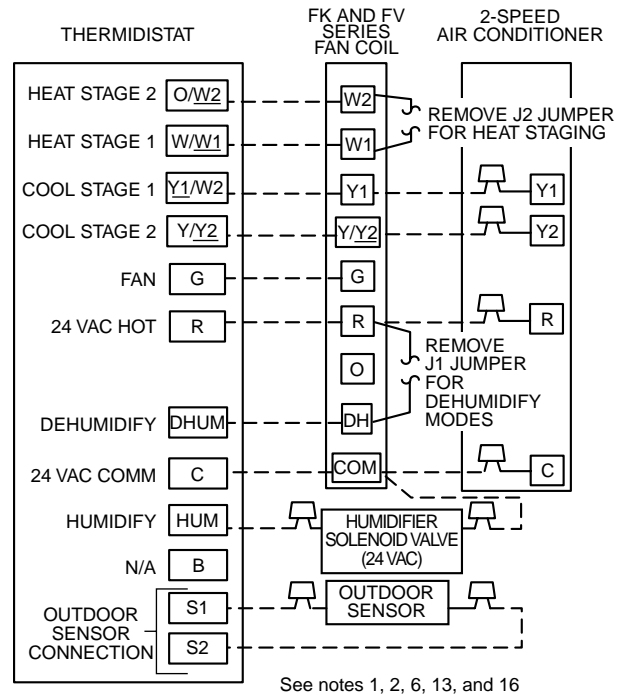


Fig. 6—FK and FV Series Fan Coil With 2-Speed Air Conditioner

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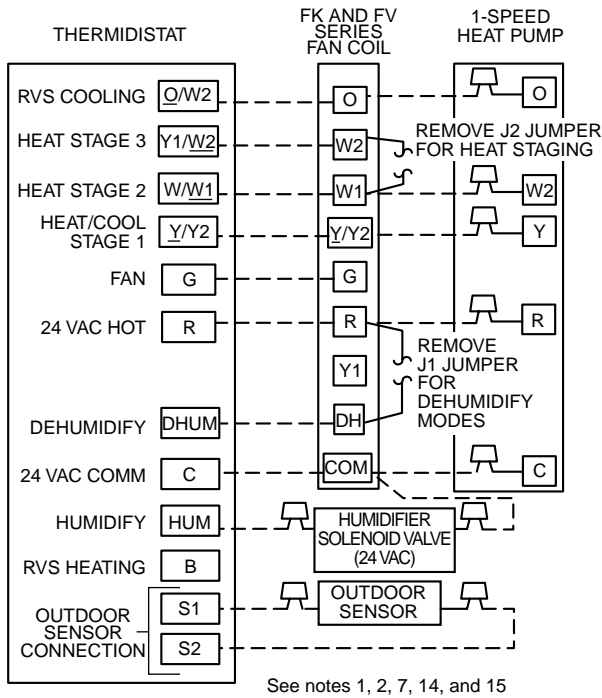


Fig. 7—FK and FV Series Fan Coil With 1-Speed Heat Pump

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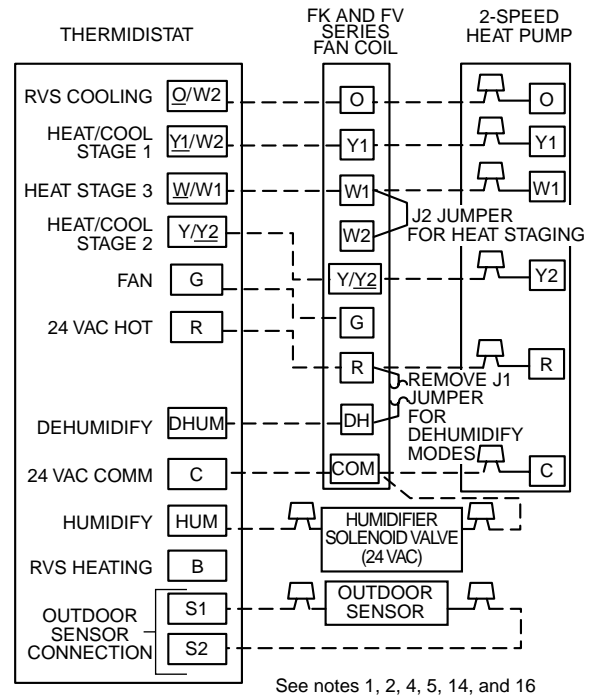


Fig. 8—FK and FV Series Fan Coil With 2-Speed Heat Pump

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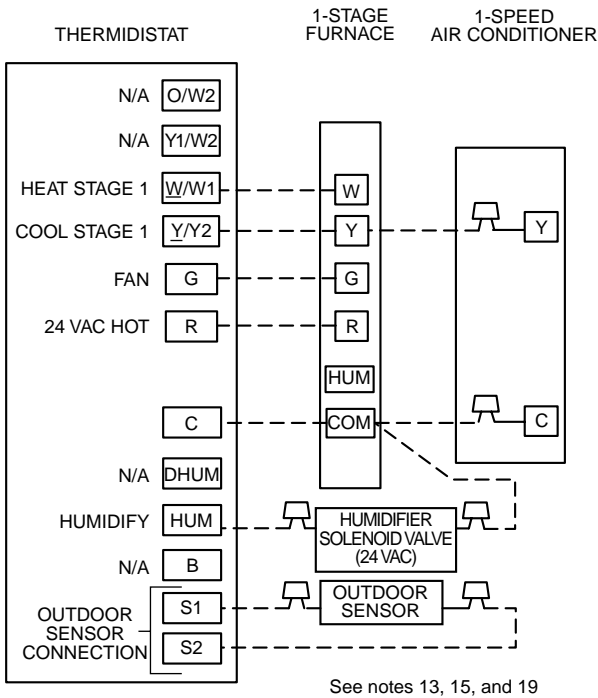


Fig. 9—Single-Stage Furnace With 1-Speed Air Conditioner

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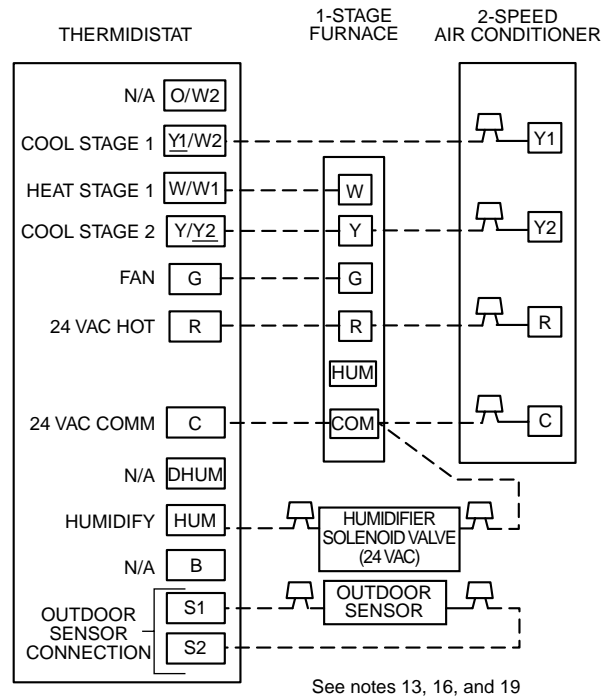


Fig. 10—Single-Stage Furnace With 2-Speed Air Conditioner

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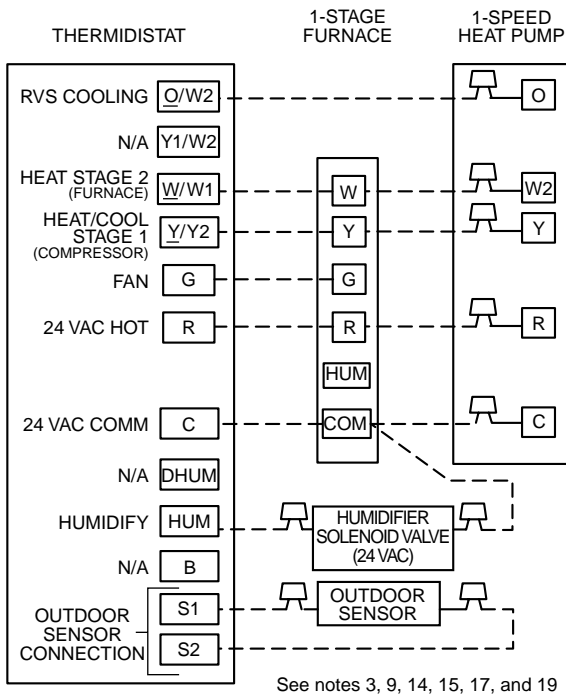


Fig. 11—Single-Stage Furnace With 1-Speed Heat Pump (Dual Fuel)

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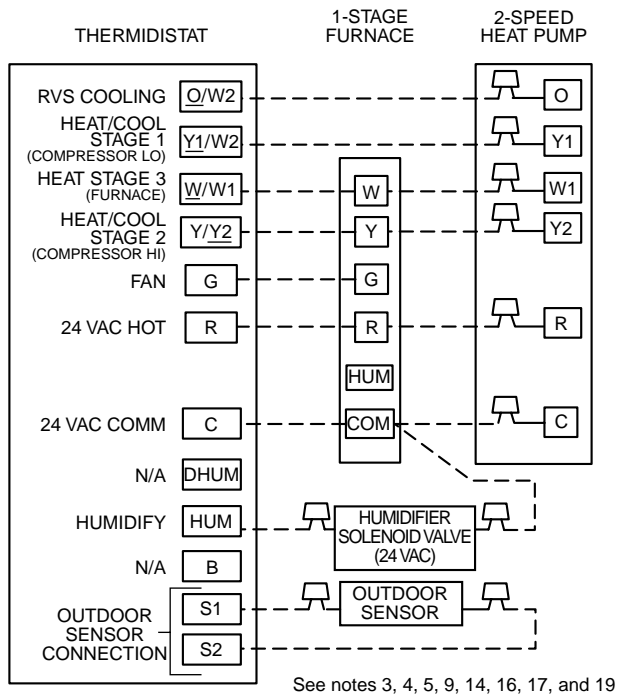


Fig. 12—Single-Stage Furnace With 2-Speed Heat Pump (Dual Fuel)

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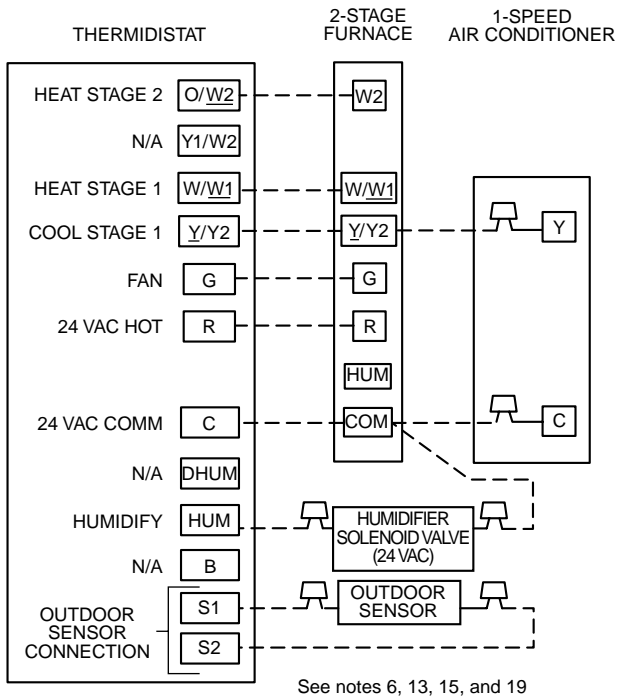


Fig. 13—Two-Stage Furnace With 1-Speed Air Conditioner

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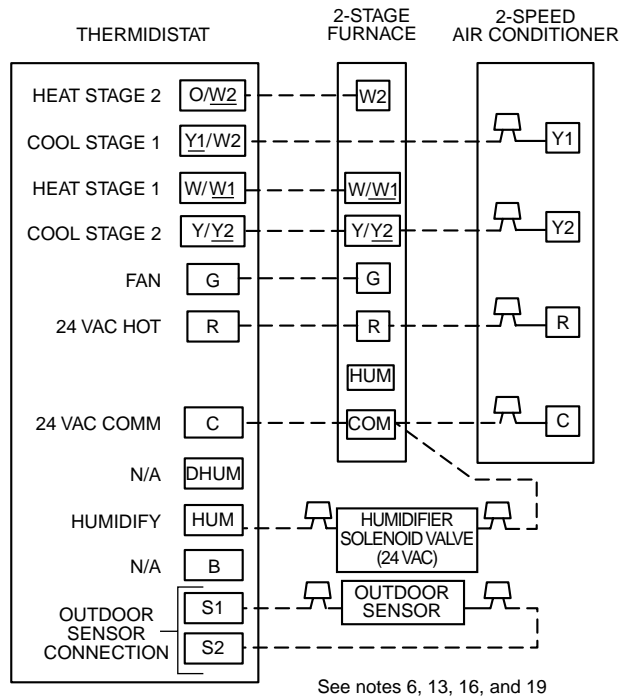


Fig. 14—Two-Stage Furnace With 2-Speed Air Conditioner

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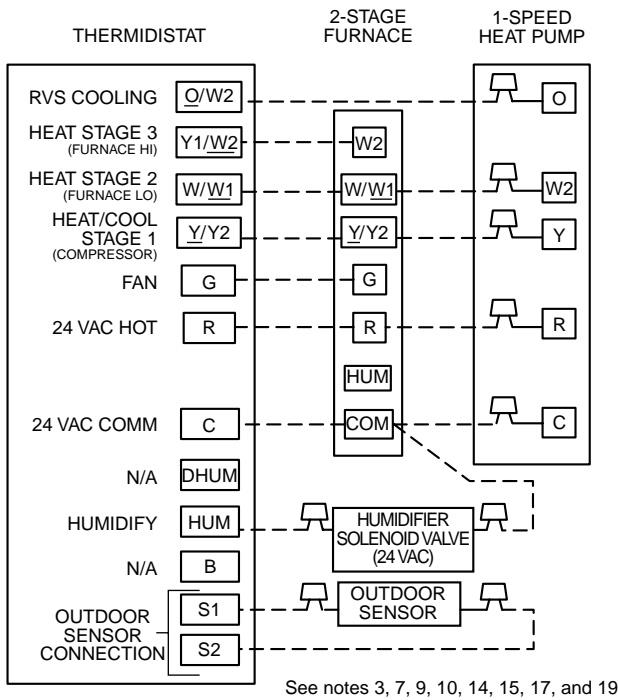


Fig. 15—Two-Stage Furnace With 1-Speed Heat Pump (Dual Fuel)

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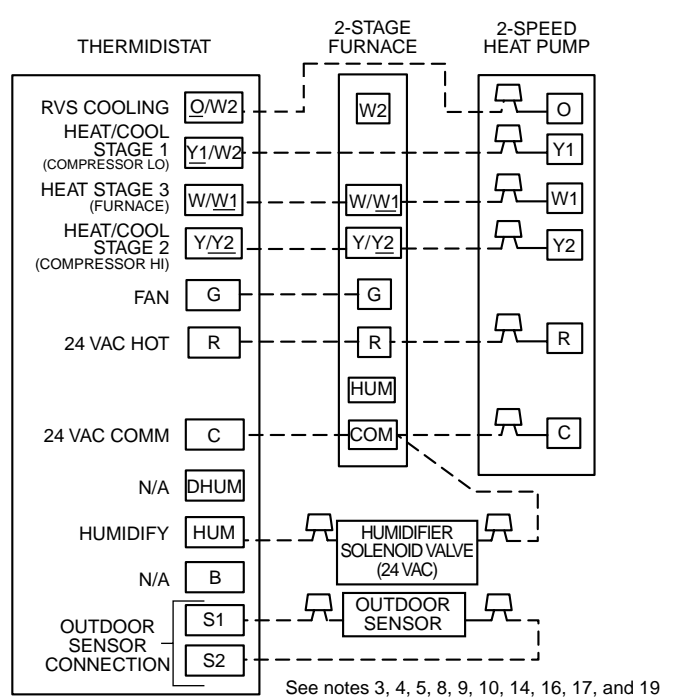


Fig. 16—Two-Stage Furnace With 2-Speed Heat Pump (Dual Fuel)

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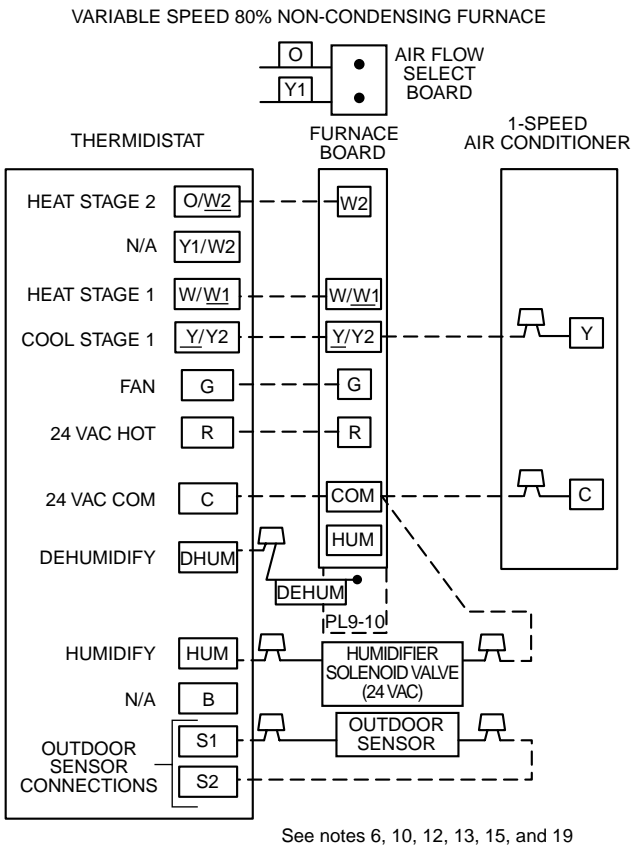


Fig. 17—Variable-Speed 2-Stage Non-Condensing Furnace With 1-Speed Air Conditioner

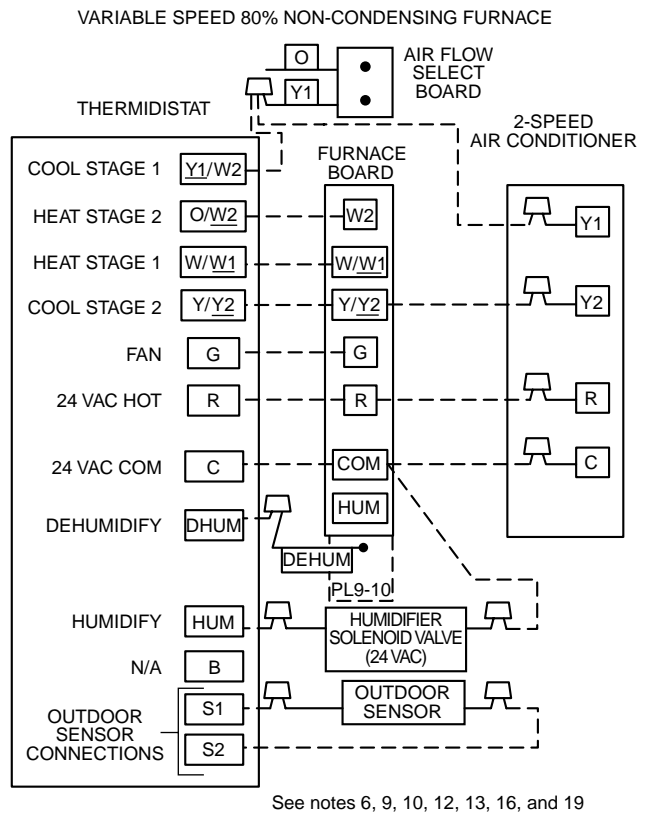


Fig. 18—Variable-Speed 2-Stage Non-Condensing Furnace With 2-Speed Air Conditioner

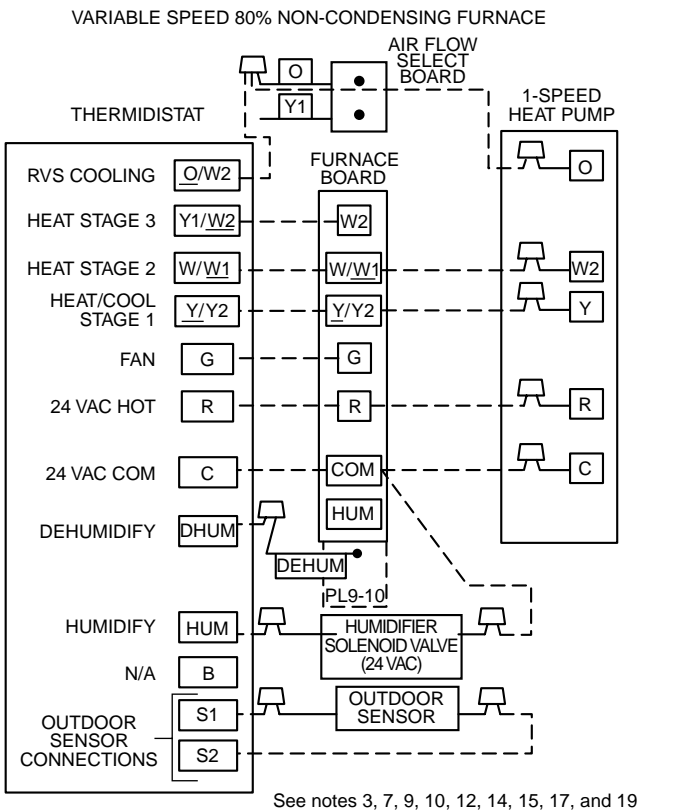


Fig. 19—Variable-Speed 2-Stage Non-Condensing Furnace With 1-Speed Heat Pump (Dual Fuel)

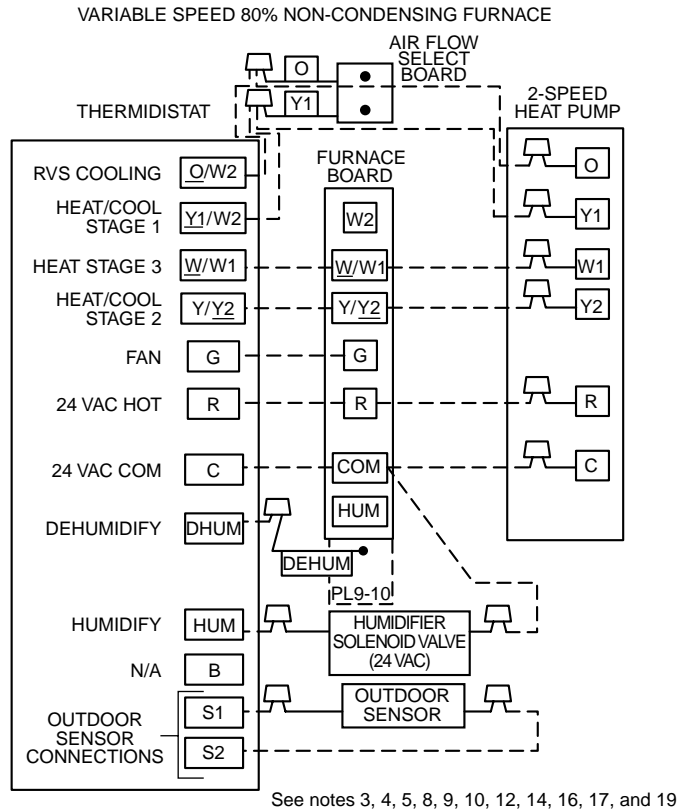


Fig. 20—Variable-Speed 2-Stage Non-Condensing Furnace With 2-Speed Heat Pump (Dual Fuel)

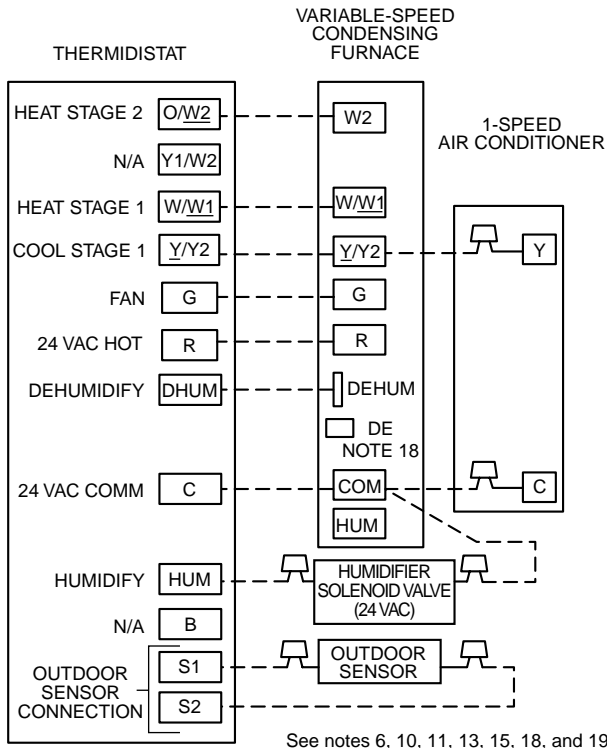


Fig. 21—Variable-Speed Condensing Furnace — With DE Connection — With 1-Speed Air Conditioner

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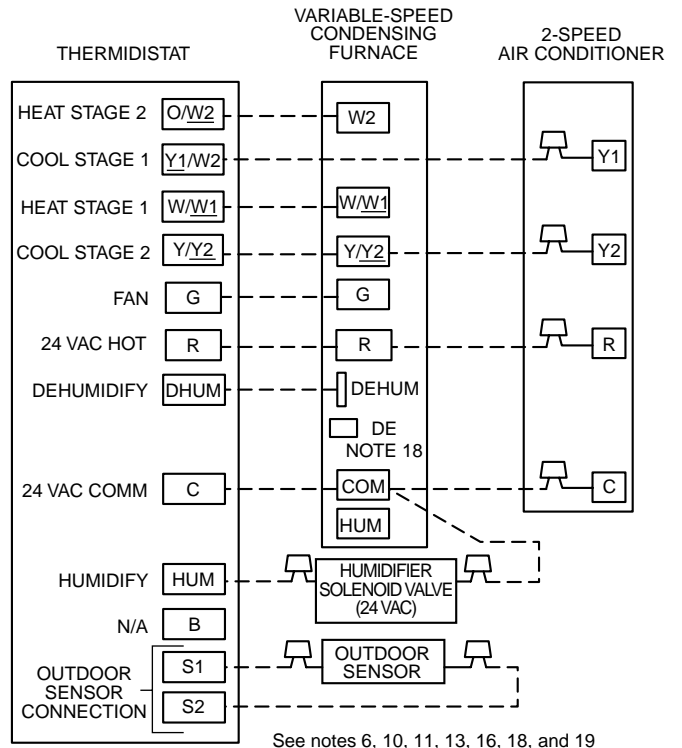
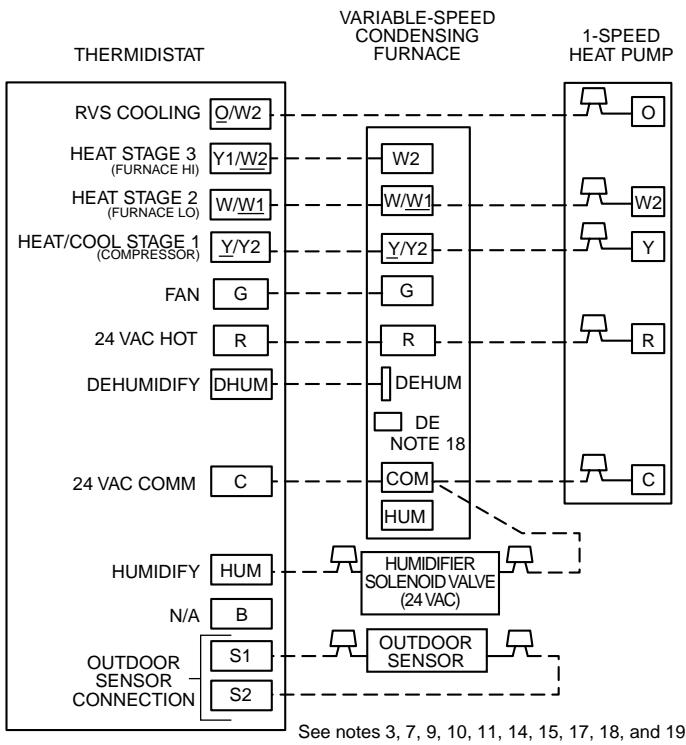


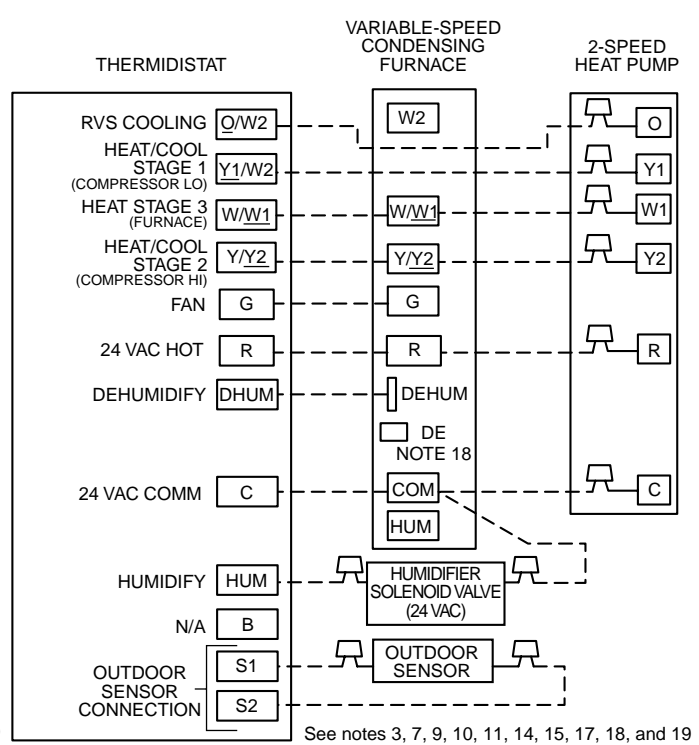
Fig. 22—Variable-Speed 2-Stage Condensing Furnace — With DE Connection — With 2-Speed Air Conditioner

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Fig. 23—Variable-Speed 2-Stage Condensing Furnace — With DE Connection — With 1-Speed Heat Pump (Dual Fuel)



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Fig. 24—Variable-Speed 2-Stage Condensing Furnace — With DE Connection — With 2-Speed Heat Pump (Dual Fuel)

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