

SUPPLEMENTAL INSTALLATION & OPERATING INSTRUCTIONS for AEPF SERIES AIR HANDLER



All information contained herein is subject to change without notice.

INSTALLER

These instructions must be used in conjunction with the latest version of IO-286, which is shipped with the unit. It is important to follow both of these instructions and those in the latest version of IO-286 when installing the AEPF series of air handlers.

THERMOSTAT CONNECTIONS

The following composite wiring diagrams detail various configurations in which the AEPF air handlers can be used. Examples include single-stage cooling and heat pump with single or two-stage electric heating. All these configurations can be applied with convenient connections to outdoor thermostat applications.

The following sections will be detailed:

- Single-Stage Cooling (GMC Thermostat Part #CHT18-60 or equivalent.)
- Heat Pump (GMC Thermostat Part #18-60 or equivalent)

Each diagram details the connections between room thermostat and AEPF air handlers, and the connections between the AEPF air handlers and the Condensing Unit (or Heat Pump) with optional connections to Outdoor Thermostats. For each configuration, refer to the explanation of the proper jumper(s) to remove for the corresponding blower speed that will result in the programmed ECM™ motor.

IMPORTANT: WHEN MATCHING THE AEPF AIR HANDLERS TO A SINGLE STAGE COOLING UNIT OR HEAT PUMP, REMEMBER TO CONNECT THE "Y/Y2" THERMOSTAT CONNECTION ON THE VARIABLE SPEED BOARD (VSTB) TO THE THERMOSTAT. CONNECTING "Y1" WILL RESULT IN FIRST STAGE COOLING BLOWER SPEED AND MAY CAUSE THE CONTACTOR TO CHATTER.

An equivalent thermostat can be used in place of the Goodman thermostat part number. The GMC thermostats that listed are mercury type thermostats.



WARNING

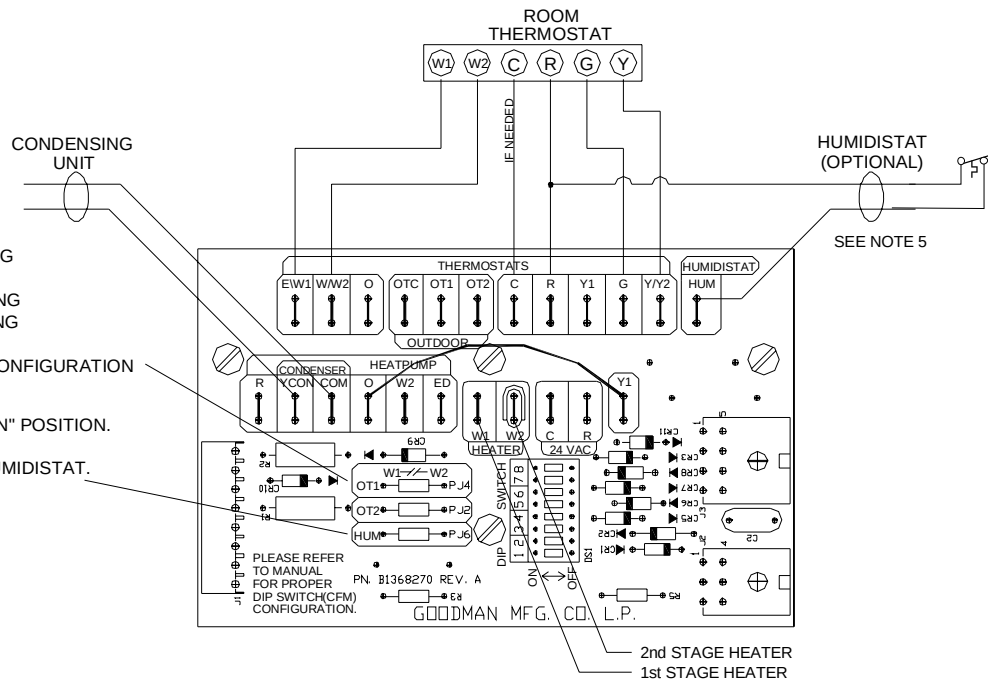
HIGH VOLTAGE!!

DISCONNECT ALL POWER BEFORE SERVICING. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY, OR DEATH.

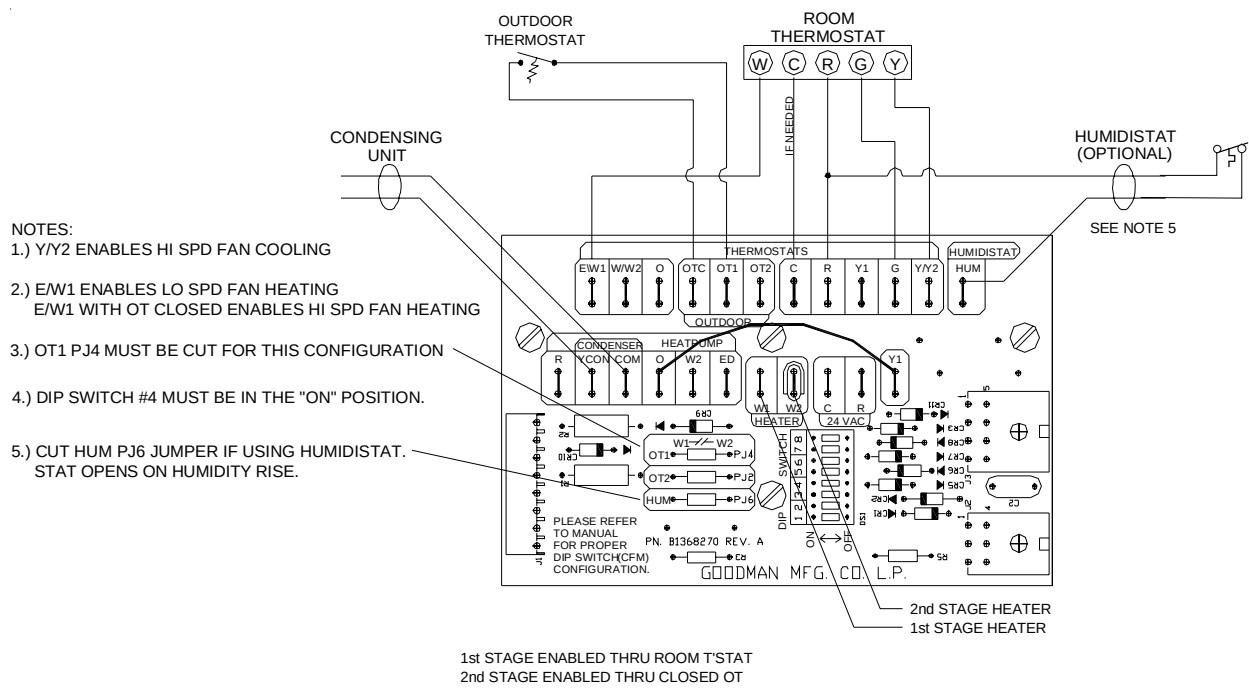
SINGLE STAGE COOLING WITH SINGLE OR TWO-STAGE HEATING

NOTES:

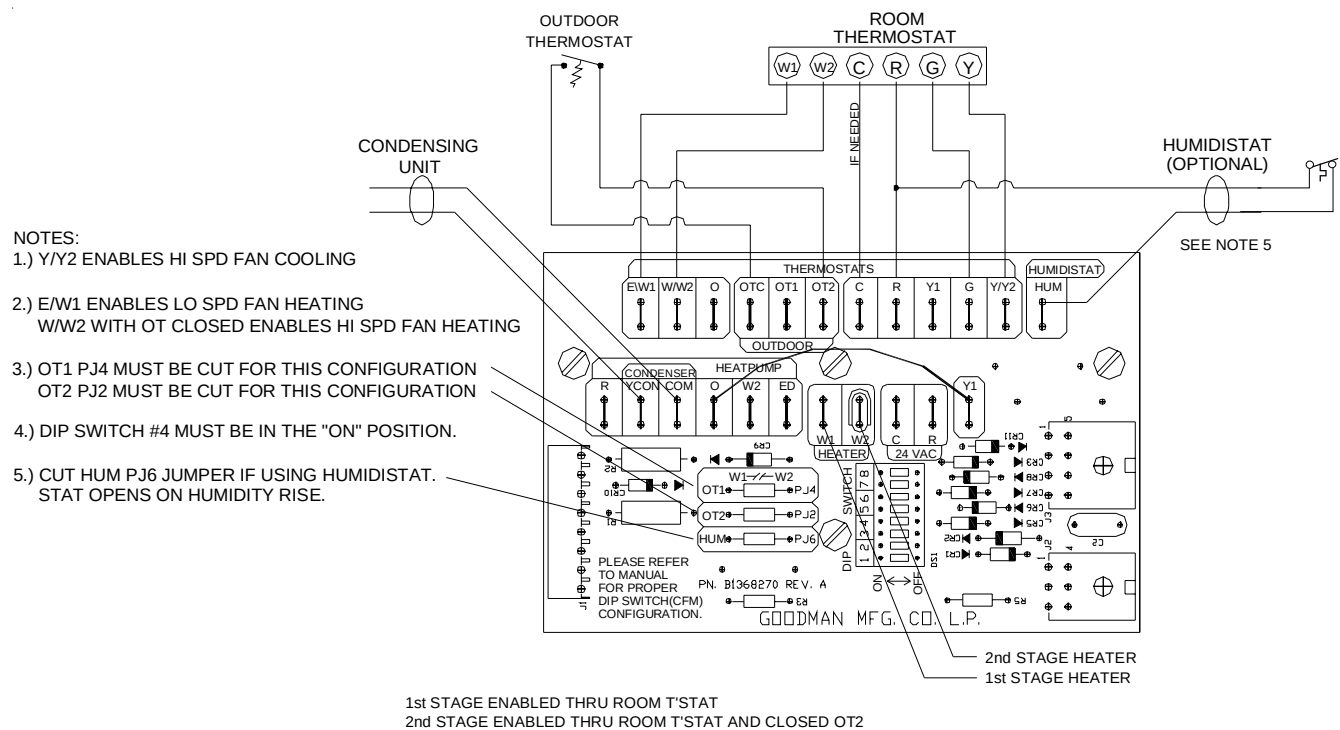
- 1.) Y/Y2 ENABLES HI SPD FAN COOLING
- 2.) E/W1 ENABLES LO SPD FAN HEATING
W/W2 ENABLES HI SPD FAN HEATING
- 3.) OT1 PJ4 MUST BE CUT FOR THIS CONFIGURATION
- 4.) DIP SWITCH #4 MUST BE IN THE "ON" POSITION.
- 5.) CUT HUM PJ6 JUMPER IF USING HUMIDISTAT.
STAT OPENS ON HUMIDITY RISE.



COOLING ONLY - 2 STAGE HEAT THERMOSTAT



COOLING ONLY - 2 STAGE HEAT (1st ROOM T'STAT & 2nd OT)

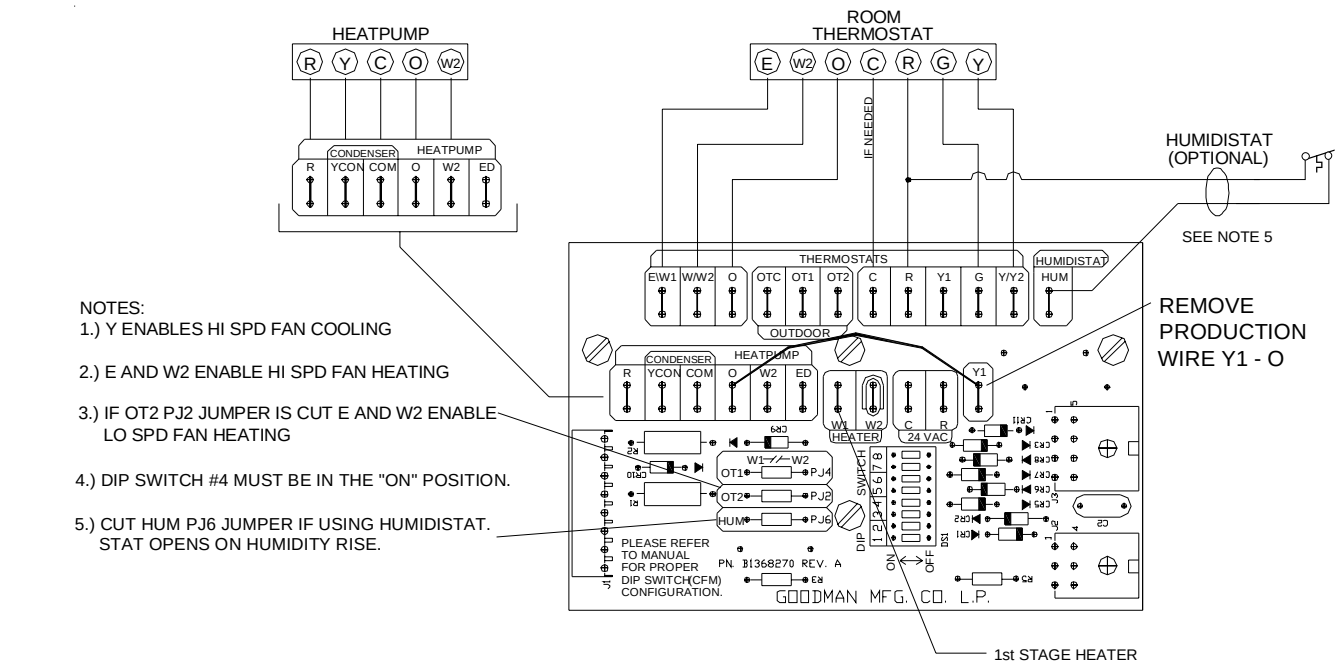


COOLING ONLY - 2 STAGE HEAT (T'STAT ENABLED OT)

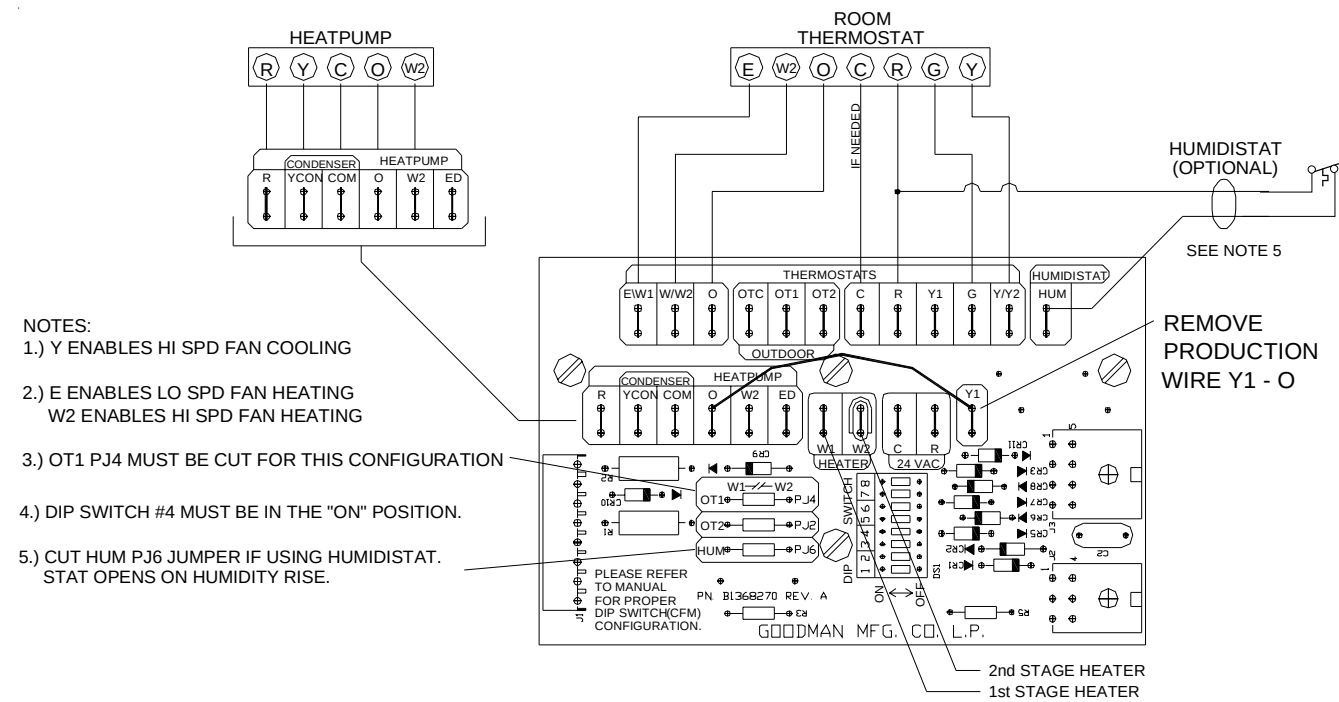

WARNING

TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

HEAT PUMP WITH SINGLE OR TWO-STAGE HEATING (OPTIONS FOR EMERGENCY HEAT)



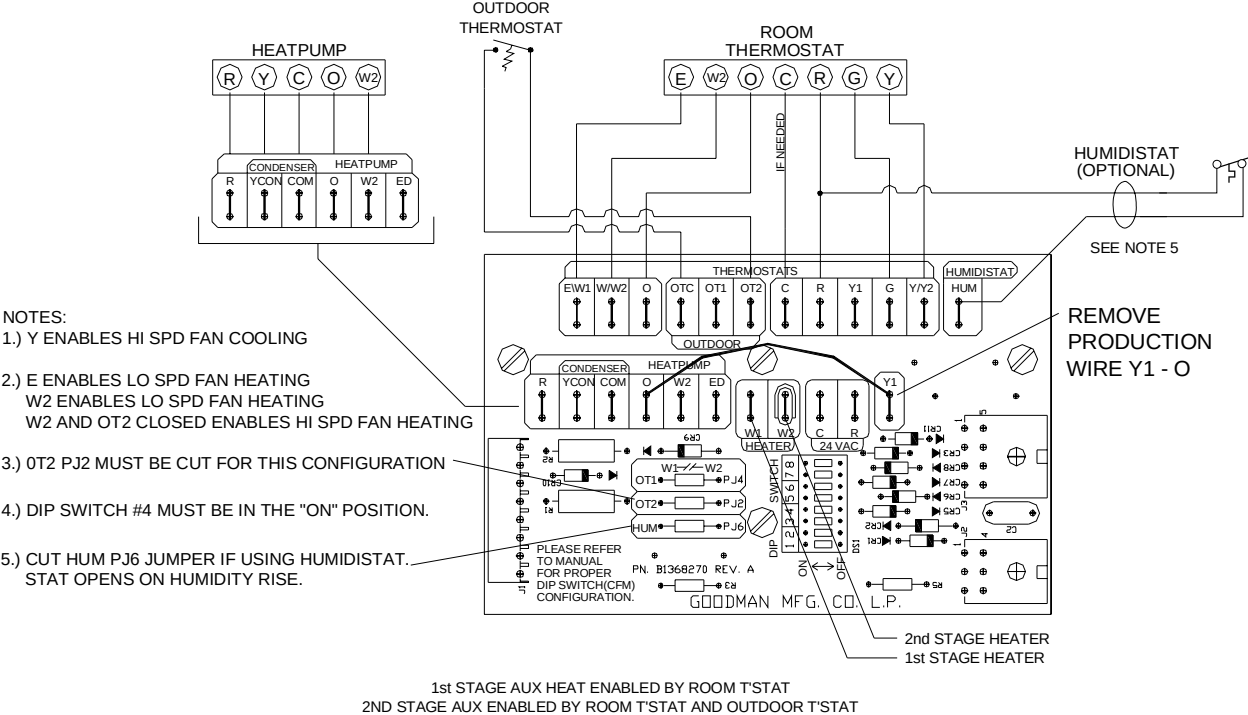
HEATPUMP - WITH 1 STG EMHT 1 STG AUX HEAT



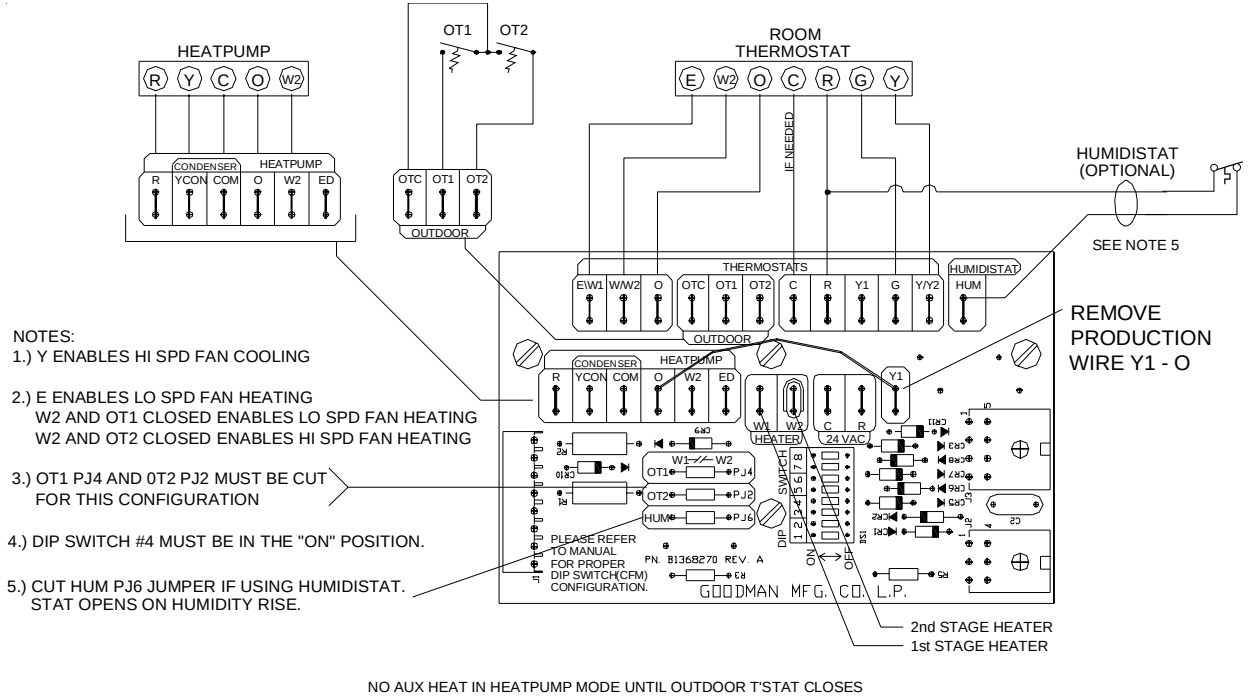
HEATPUMP - 2 STG EMHT 1 STG AUX HEAT

WARNING

TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.



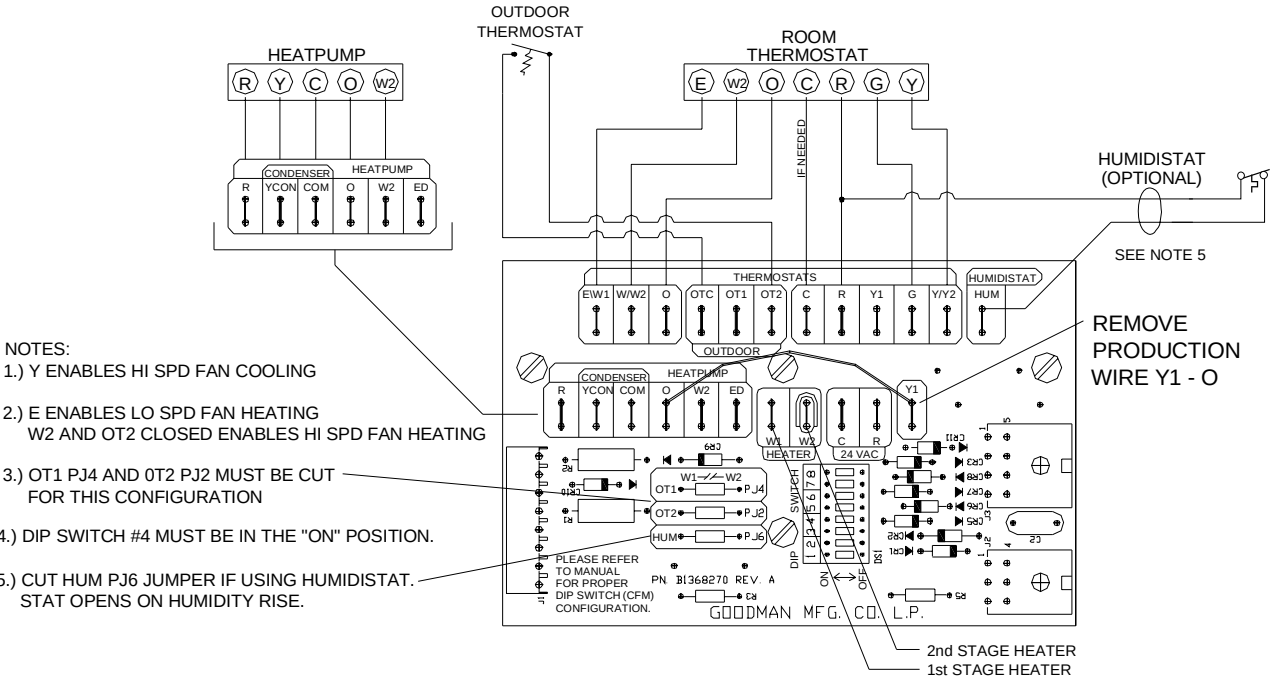
HEATPUMP - 2 STG EMHT 2 STG AUX - 1 OUTDOOR T'STAT



HEATPUMP - 2 STG EMHT 2 STG AUX - 2 OUTDOOR T'STATS


WARNING

TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY,
 OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.



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