

1. ALL WIRING AND DEVICES SHOWN WASHED TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
2. IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED WITH THIS UNIT, MUST BE REPLACED, REPLACE WITH APPLIANCE WIRING MATERIAL RATED AT 105°C.
3. THREE PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION. COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.

4 CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH UNITS. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4 FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.

5) WHEN INSTALLING ECONOMIZER, REMOVE PPM2 FROM PPF2, CONNECT PPM2A TO PPF2, AND CONNECT MAS TO WIRES 180A AND 181A.

6 CONNECTIONS SHOWN INCLUDE FOS, TDL1, AND HPC1. IF NONE OF THESE OPTIONS ARE INSTALLED, CONNECT WIRE LPC1-BLU TO WIRES W24/188A. IF ANY OR ALL OF THESE OPTIONS ARE INSTALLED, CONNECT THEM IN SERIES AS SHOWN. (SEE NOTE 10 FOR EXCEPTION)

7 FOR MOTORIZED OUTSIDE AIR DAMPER, OPTIONAL MAS AND OTS (AND ASSOCIATED WIRING) ARE NOT USED, AND R4 IS REMOVED BETWEEN S0 AND S1 ON ECA.

8 (FUTURE OPTION) CONNECTIONS SHOWN ARE FOR 2-STAGE GAS HEAT OPERATION. WHEN 1-STAGE OPERATION IS REQUIRED, WIRE 102B IS REMOVED. WIRES 21A, 101NN, AND 174A ARE NOT CONNECTED TO IGN. AND WIRE 123A IS NOT CONNECTED TO GV.

9 MINIMUM HEATING SPEED IS TAP 4. TO SET COOLING AND HEATING TO THE SAME SPEED (TAP 4 OR 5), DISCONNECT WIRE W54 FROM IDM AND CONNECT IT TO THE EXTRA TERMINAL PROVIDED ON WIRE W56.

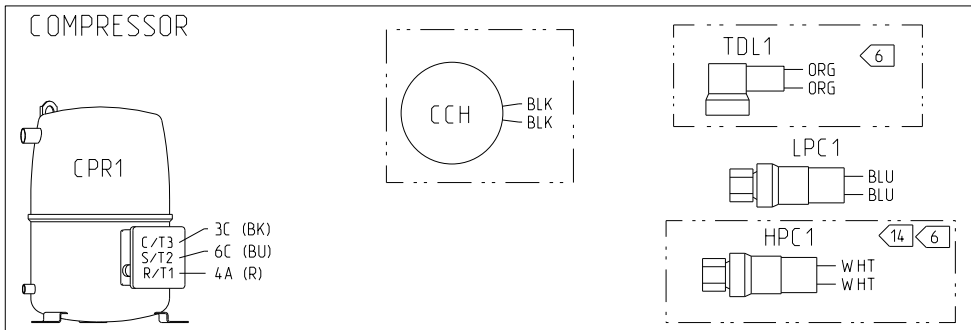
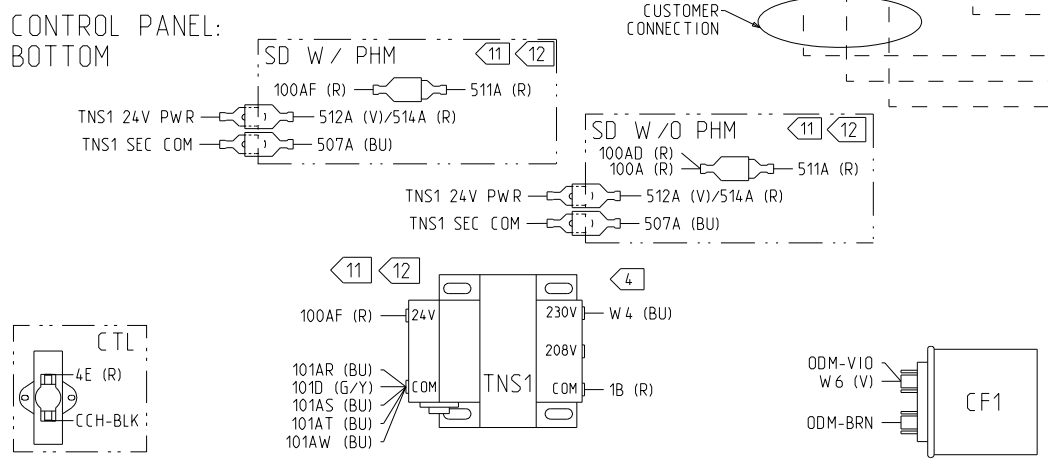
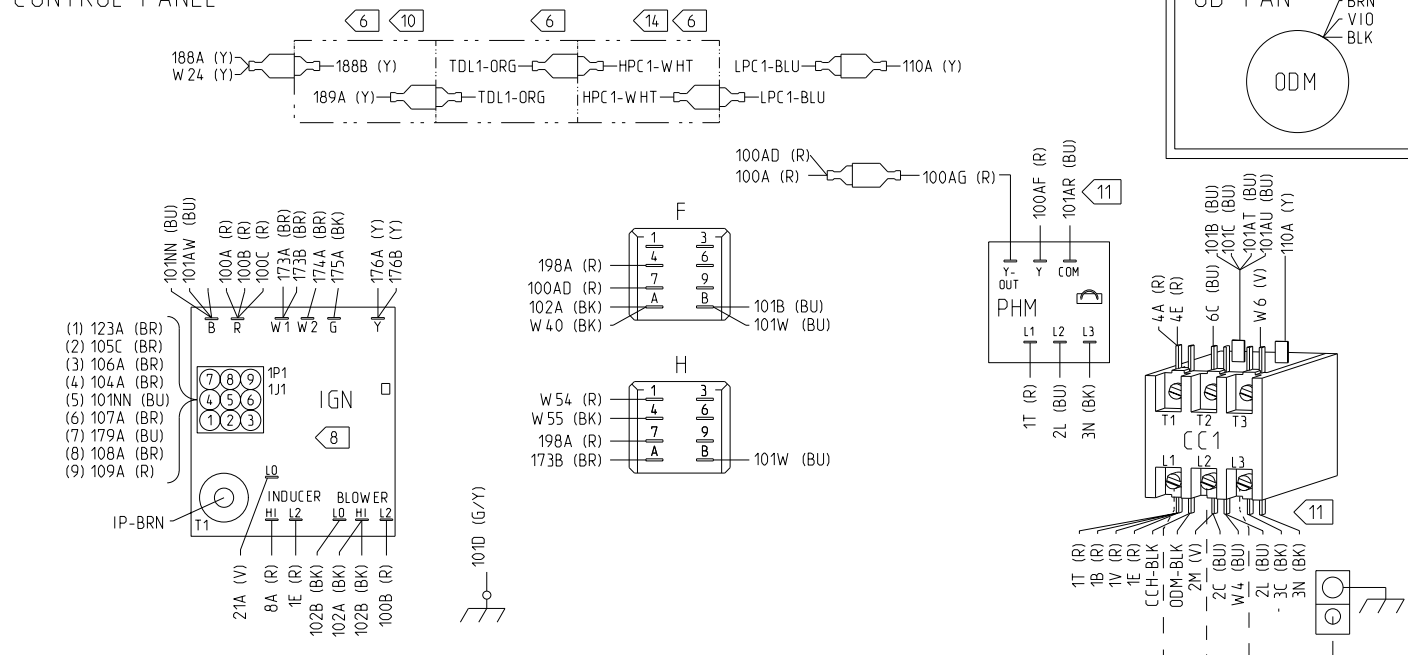
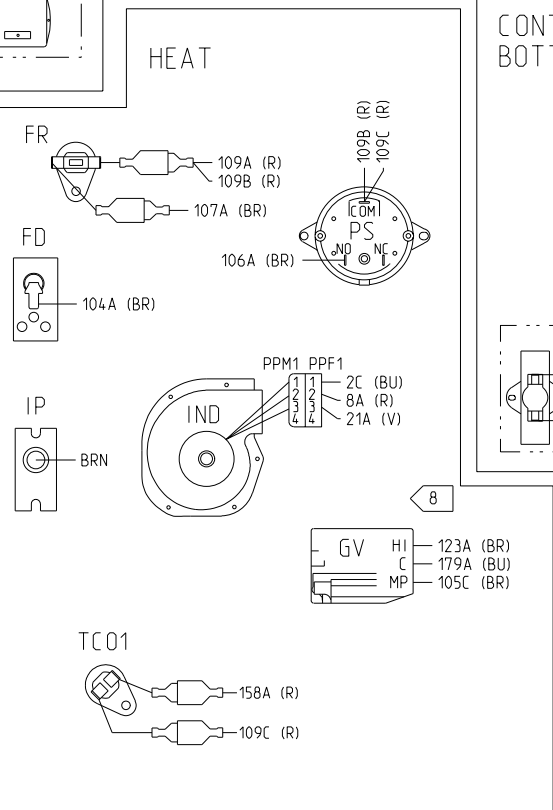
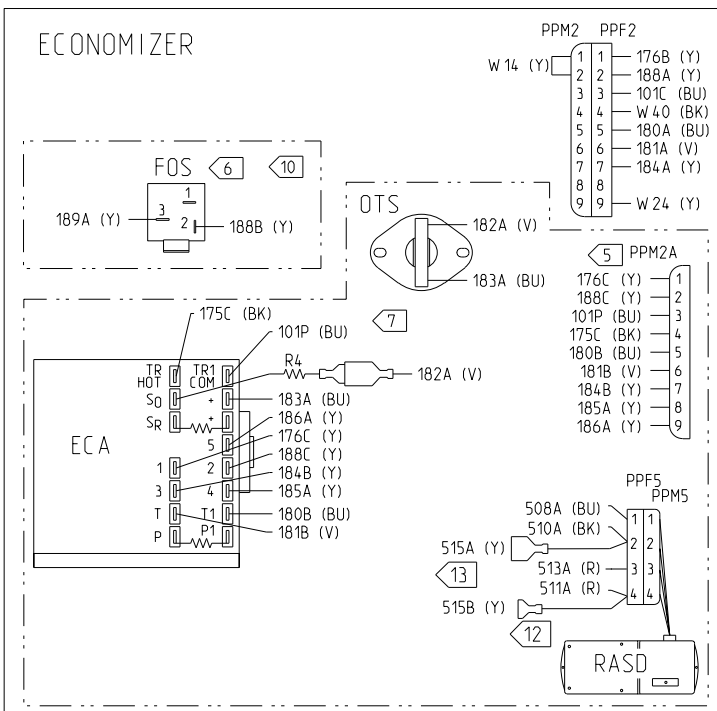
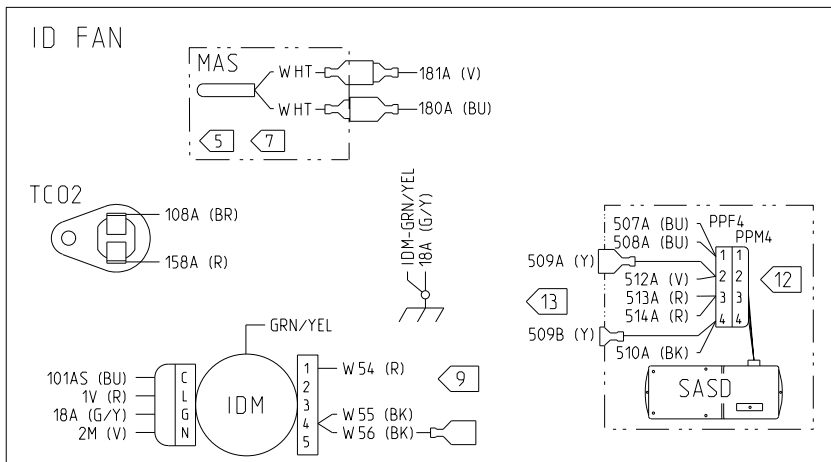
10 FROSTAT CONNECTIONS/WIRE NUMBERS HAVE AN EXCEPTION. FOR ALL 4-5 TON UNITS WITH R410A REFRIGERANT AND HIGH EFFICIENCY, CONNECT WIRE 132C TO FOS PIN 2 AND 101TT TO FOS PIN 3.

11 (FUTURE) PHASE MONITOR (PHM) CONNECTIONS SHOWN. IF PHM IS NOT INSTALLED; WIRES 100AD/ 100A ARE CONNECTED TO TNS1 24V PWR; WIRES 100AF, 100AG, 1T, 2L, 3N, AND 101AR ARE NOT PRESENT

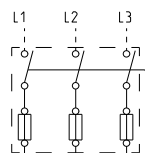
12 IF OPTIONAL SMOKE DETECTOR (SD) IS INSTALLED, CONNECT SASD PLUG PPM4 TO PPF4 AND RASD PLUG PPM5 TO PPF5. REMOVE 100AF OR 100A/100AD AS REQUIRED FROM TNS1 24V PWR AND CONNECT TO 511A. CONNECT 514A /512A TO TNS1 24V PWR. CONNECT 507A TO TNS1 SECONDARY COM.

13 CONNECTIONS SHOWN INCLUDE RASD AND SASD. IF RASD IS NOT INSTALLED, CONNECT 515A TO 515B. IF SASD IS NOT INSTALLED, CONNECT 509A TO 509B.

14 HPC SHOWN IS FOR 410A REFRIGERANT.
FOR R22 REFRIGERANT (DIGIT 7 IN MODEL
NUMBER EQUALS "A" OR "B") HPC1 WILL
HAVE BLACK LEADS AND HPC2 WILL HAVE
RED LEADS.



SEE NAMEPLATE FOR LINE
VOLTAGE AND MAX FUSE SIZE



THERMOSTAT

100C (R) - - < RC	
173A (BR) - - < W1	
174A (BR) - - < W2	
175A (BK) - - < G	
< RH	
176A (Y) - - < Y1	
184A (Y) - - < Y2	
101AU (BU) - - COMMON	

TRANE

4366-5183

REV

E

DIAGRAM

CONNECTION PRINT - GAS HEAT,
HI EFF, 3-4 TON, 230V-3PH PWR.
EM CNTL, X13 IDM

IMPORTANT

DO NOT ENERGIZE UNIT UNTIL
CHECK-OUT AND START-UP
PROCEDURE HAS BEEN COMPLETED.

CAUTION

UNIT TERMINALS ARE NOT DESIGNED TO
ACCEPT OTHER TYPES OF CONDUCTORS.

FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

ATTENTION

N'UTILISER QUE DES CONDUCTEURS EN
CUIVRE!

LES BORNES DE L'UNITÉ NE SONT PAS
CONÇUES POUR RECEVOIR D'AUTRES TYPES
DE CONDUCTEURS.

L'UTILISATION DE TOUT AUTRE CONDUCTEUR
PEUT ENDOMMAGER L'ÉQUIPEMENT.

PRECAUCIÓN

¡UTILICE ÚNICAMENTE CONDUCTORES DE
COBRE!

LAS TERMINALES DE LA UNIDAD NO ESTÁN
DISEÑADAS PARA ACEPTAR OTROS TIPOS DE
CONDUCTORES.

SI NO LO HACE, PUEDE OCASIONAR DAÑO AL EQUIPO.