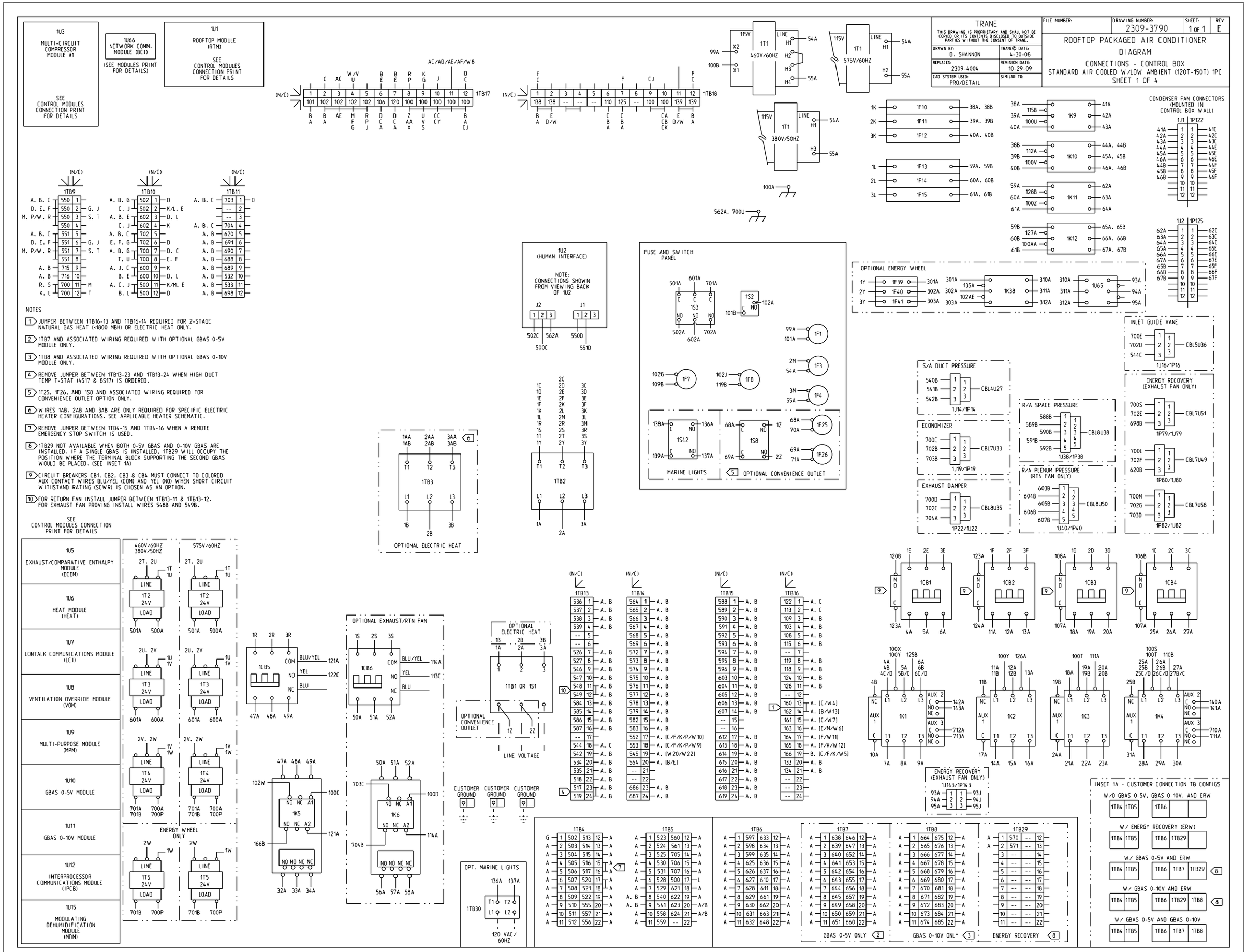
TRANE
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DRAWN BY: D. SHANNON
TRANE® DATE: 4-30-08
REPLACES: 2309-4004
REVISION DATE: 10-29-09
CAD SYSTEM USED: PRO/DETAIL
SIMILAR TO:
FILE NUMBER:
DRAWING NUMBER: 2309-3790
SHEET: 1 OF 1
REV E
ROOFTOP PACKAGED AIR CONDITIONER DIAGRAM
CONNECTIONS - CONTROL BOX
STANDARD AIR COOLED W/LOW AMBIENT (120T-150T) 1PC
SHEET 1 OF 4
1U3 MULTI-CIRCUIT COMPRESSOR MODULE #1
SEE CONTROL MODULES CONNECTION PRINT FOR DETAILS
1U66 NETWORK COMM. MODULE (BCI)
(SEE MODULES PRINT FOR DETAILS)
1U1 ROOFTOP MODULE (RTM)
SEE CONTROL MODULES CONNECTION PRINT FOR DETAILS
1TB17
1TB18
1T1 460V/60HZ
1T1 575V/60HZ
1T1 380V/50HZ
1F10
1F11
1F12
1F13
1F14
1F15
1K9
1K10
1K11
1K12
1K38
1U65
CONDENSER FAN CONNECTORS (MOUNTED IN CONTROL BOX WALL)
1P122
1P125
OPTIONAL ENERGY WHEEL
1TB9
1TB10
1TB11
NOTES
1 JUMPER BETWEEN 1TB16-13 AND 1TB16-14 REQUIRED FOR 2-STAGE NATURAL GAS HEAT (<1800 MBH) OR ELECTRIC HEAT ONLY.
2 1TB7 AND ASSOCIATED WIRING REQUIRED WITH OPTIONAL GBAS 0-5V MODULE ONLY.
3 1TB8 AND ASSOCIATED WIRING REQUIRED WITH OPTIONAL GBAS 0-10V MODULE ONLY.
4 REMOVE JUMPER BETWEEN 1TB13-23 AND 1TB13-24 WHEN HIGH DUCT TEMP T-STAT (4S17 & 8S17) IS ORDERED.
5 1F25, 1F26, AND 1S8 AND ASSOCIATED WIRING REQUIRED FOR CONVENIENCE OUTLET OPTION ONLY.
6 WIRES 1AB, 2AB AND 3AB ARE ONLY REQUIRED FOR SPECIFIC ELECTRIC HEATER CONFIGURATIONS. SEE APPLICABLE HEATER SCHEMATIC.
7 REMOVE JUMPER BETWEEN 1TB4-15 AND 1TB4-16 WHEN A REMOTE EMERGENCY STOP SWITCH IS USED.
8 1TB29 NOT AVAILABLE WHEN BOTH 0-5V GBAS AND 0-10V GBAS ARE INSTALLED. IF A SINGLE GBAS IS INSTALLED, 1TB29 WILL OCCUPY THE POSITION WHERE THE TERMINAL BLOCK SUPPORTING THE SECOND GBAS WOULD BE PLACED. (SEE INSET 1A)
9 CIRCUIT BREAKERS CB1, CB2, CB3 & CB4 MUST CONNECT TO COLORED AUX CONTACT WIRES BLU/YEL (COM) AND YEL (NO) WHEN SHORT CIRCUIT WITHSTAND RATING (SCWR) IS CHOSEN AS AN OPTION.
10 FOR RETURN FAN INSTALL JUMPER BETWEEN 1TB13-11 & 1TB13-12. FOR EXHAUST FAN PROVING INSTALL WIRES 548B AND 549B.
SEE CONTROL MODULES CONNECTION PRINT FOR DETAILS
1U2 (HUMAN INTERFACE)
NOTE: CONNECTIONS SHOWN FROM VIEWING BACK OF 1U2
FUSE AND SWITCH PANEL
1S3
1S2
1F1
1F3
1F4
1F7
1F8
1F25
1F26
1S42
1S8
MARINE LIGHTS
OPTIONAL CONVENIENCE OUTLET
OPTIONAL ELECTRIC HEAT
1TB3
1TB2
1AA 2AA 3AA
1AB 2AB 3AB
S/A DUCT PRESSURE
CBL4U27
ECONOMIZER
CBL7U33
EXHAUST DAMPER
CBL8U35
R/A SPACE PRESSURE
CBL8U38
R/A PLENUM PRESSURE (RTN FAN ONLY)
CBL8U50
INLET GUIDE VANE
CBL5U36
ENERGY RECOVERY (EXHAUST FAN ONLY)
CBL7U51
CBL7U49
CBL7U58
1U5 EXHAUST/COMPARATIVE ENTHALPY MODULE (ECEM)
1U6 HEAT MODULE (HEAT)
1U7 LONTALK COMMUNICATIONS MODULE (LCI)
1U8 VENTILATION OVERRIDE MODULE (VOM)
1U9 MULTI-PURPOSE MODULE (MPM)
1U10 GBAS 0-5V MODULE
1U11 GBAS 0-10V MODULE
1U12 INTERPROCESSOR COMMUNICATIONS MODULE (IPCB)
1U15 MODULATING DEHUMIDIFICATION MODULE (MDM)
460V/60HZ 380V/50HZ
575V/60HZ
ENERGY WHEEL ONLY
OPTIONAL EXHAUST/RTN FAN
1CB5
1CB6
OPTIONAL ELECTRIC HEAT
1TB1 OR 1S1
OPTIONAL CONVENIENCE OUTLET
LINE VOLTAGE
1K5
1K6
CUSTOMER GROUND
OPT. MARINE LIGHTS
1TB30
120 VAC/ 60HZ
1CB1
1CB2
1CB3
1CB4
1K1
1K2
1K3
1K4
ENERGY RECOVERY (EXHAUST FAN ONLY)
1J14/1P143
1TB13
1TB14
1TB15
1TB16
1TB4
1TB5
1TB6
1TB7
1TB8
1TB29
GBAS 0-5V ONLY 2
GBAS 0-10V ONLY 3
ENERGY RECOVERY 8
INSET 1A - CUSTOMER CONNECTION TB CONFIGS
W/O GBAS 0-5V, GBAS 0-10V, AND ERW
W/ ENERGY RECOVERY (ERW)
W/ GBAS 0-5V AND ERW
W/ GBAS 0-10V AND ERW
W/ GBAS 0-5V AND GBAS 0-10V