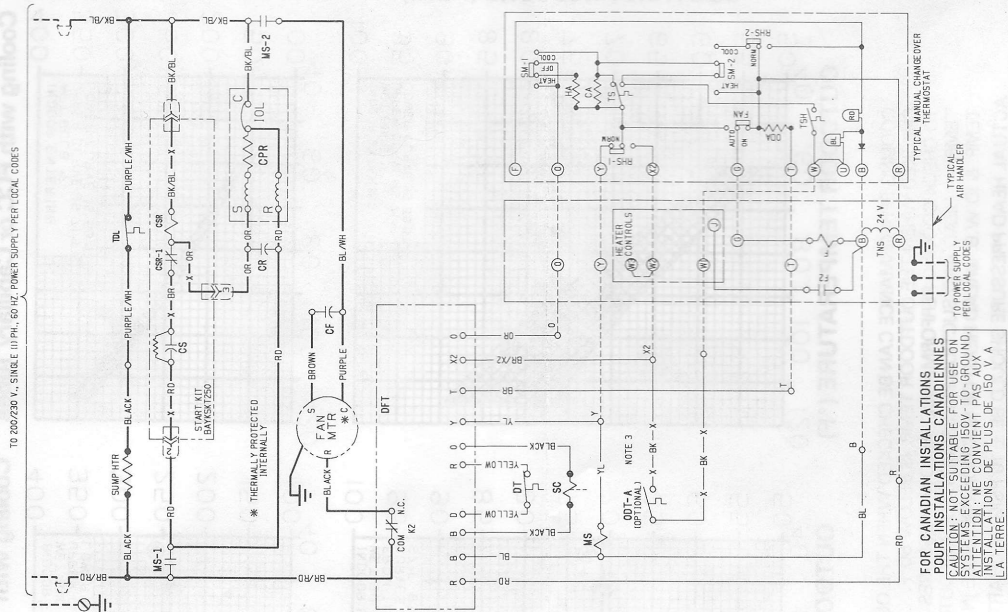
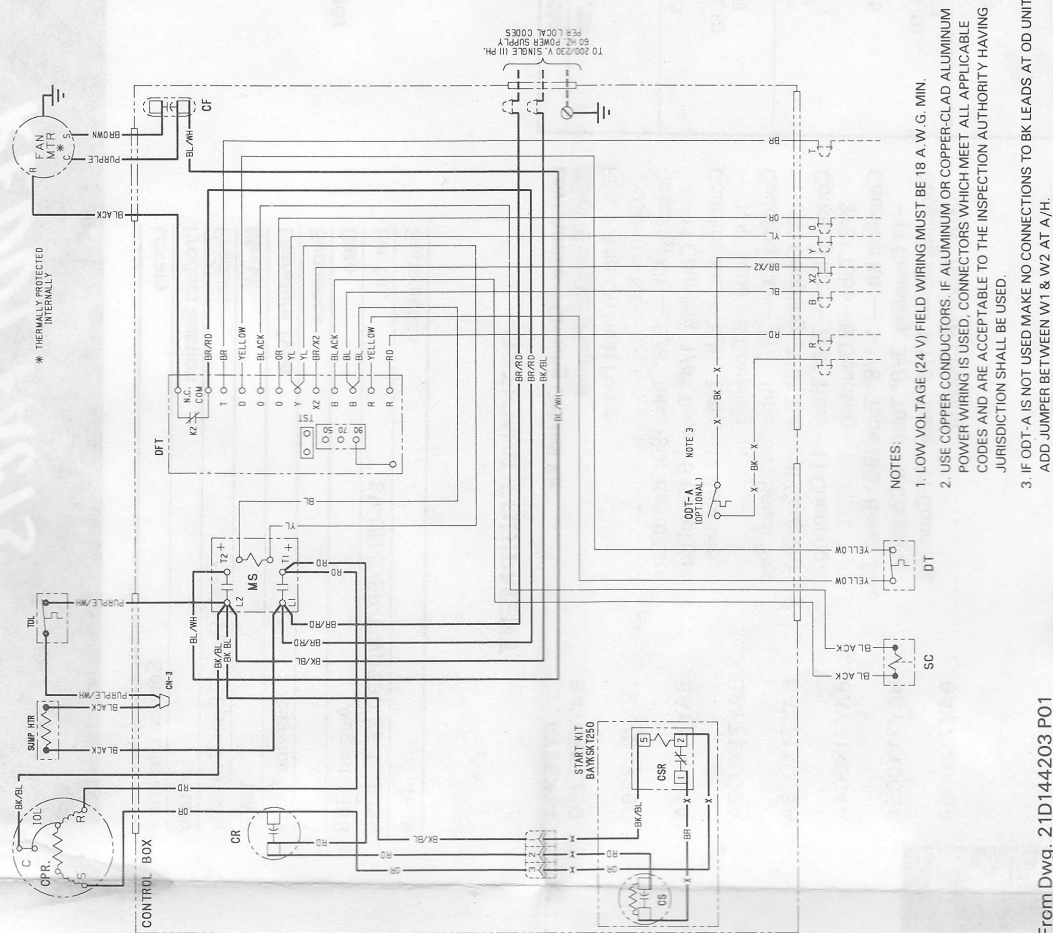


**SCHEMATIC DIAGRAM**



**WIRING DIAGRAM**



**LEGEND**

- COLOR CODES**  
 COLOR OF WIRE  
 BK/BL Black Wire with Blue Marker  
 COLOR OF MARKER
- Black OR Orange YL Yellow  
 Blue RD Red GR Green  
 Brown WH White PR Purple
- SYMBOLS**  
 24 V. } Factory Wiring  
 Line V }  
 24 V. } Field Wiring  
 Line V }

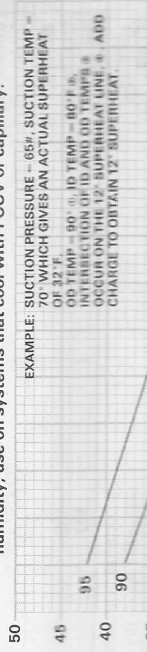
- x - Field Installed Factory Wiring
- Ground  
 Junction  
 Wire Nut or Connector  
 Coil  
 Capacitor  
 Relay Contact (N.O.)  
 Relay Contact (N.C.)  
 Relay Contact (SPDT)  
 Thermistor  
 Internal Overload Protector  
 Temp. Actuated Switch  
 Switchover Valve Solenoid  
 Resistor or Heating Element  
 Motor Winding  
 Terminal  
 Terminal Board  
 Diode  
 Pol. Plug Female Housing (Male Terminals)  
 Pol. Plug Male Housing (Female Terminals)  
 Light

- CA Cooling Anticipator  
 CF Fan Capacitor  
 CN Wire Connector  
 CPR Compressor  
 CR Run Capacitor  
 CSR Starting Capacitor  
 CSR Capacitor Switching Relay  
 DFT Defrost Control  
 DT Defrost Terminator  
 HA Heating Anticipator  
 IOL Internal Overload Protector  
 MS Compressor Motor Contactor  
 ODA Outdoor Anticipator  
 ODT Outdoor Thermostat  
 RHS Resistance Heat Switch  
 SC Switchover Valve Solenoid  
 SM System "On-Off" Switch  
 TDS Discharge Line Thermostat  
 TNS Transformer  
 TS Heating-Cooling Thermostat  
 TSH Heating Thermostat

**TROUBLESHOOTING CHART — WHAT TO CHECK**

SYSTEM FAULTS	WHAT TO CHECK	REF. CIR. RESTRICTIONS	RES. I.D. AIRFLOW	RES. O.D. AIRFLOW	NONCONDENSABLES	EXCESSIVE EVAP. LOAD	REF. UNDERCHARGE	REF. OVERCHARGE	INEFFICIENT COMP.	STUCK COMPRESSOR	LOW VOLTAGE FUSE	CONTRACTOR COIL	THERMOSTAT	CONTROL TRANSFORMER	LOW VOLTAGE WIRING	CONTRACTOR CONTACTS	START RELAY	START CAPACITOR	RUN CAPACITOR	COMPRESSOR IOL	HIGH VOLTAGE WIRING	POWER SUPPLY	
C	DEFROST CONTROL DEF.																						
H	DEFROST TERM. DEF.																						
C	CHECK VALVE LEAKING																						
C	SOY COIL DEFECTIVE																						
C	SOY LEAKINGS																						
C	REF. CIR. RESTRICTIONS																						
C	RES. I.D. AIRFLOW																						
C	RES. O.D. AIRFLOW																						
C	NONCONDENSABLES																						
C	EXCESSIVE EVAP. LOAD																						
C	REF. UNDERCHARGE																						
C	REF. OVERCHARGE																						
C	INEFFICIENT COMP.																						
C	STUCK COMPRESSOR																						
C	LOW VOLTAGE FUSE																						
C	CONTRACTOR COIL																						
C	THERMOSTAT																						
C	CONTROL TRANSFORMER																						
C	LOW VOLTAGE WIRING																						
C	CONTRACTOR CONTACTS																						
C	START RELAY																						
C	START CAPACITOR																						
C	RUN CAPACITOR																						
C	COMPRESSOR IOL																						
C	HIGH VOLTAGE WIRING																						
C	POWER SUPPLY																						

**SUPERHEAT CHARGING CHART**  
 Chart based on 400 CFM/ton indoor airflow and 50% relative humidity, use on systems that cool with FCCV or capillary.



From Dwg. 21D144203 P01