

LED Troubleshooting Information

Status LED	Status LED Description	Status LED Troubleshooting Information
Green "POWER"	Module has power	Supply voltage is present at module terminals
Red "TRIP"	Thermostat demand signal Y is present, but the compressor is not running	<ol style="list-style-type: none"> Compressor protector is open <ul style="list-style-type: none"> Check for high head pressure Check compressor supply voltage Outdoor unit power disconnect is open Compressor circuit breaker or fuse(s) is open Broken wire or connector is not making contact High pressure switch open if present in system Compressor contactor has failed open
Yellow "ALERT" Flash Code 1	Long Run Time Low Refrigerant Charge Compressor is running extremely long run cycles	<ol style="list-style-type: none"> Low refrigerant charge Evaporator blower is not running <ul style="list-style-type: none"> Check blower relay coil and contacts Check blower motor capacitor Check blower motor for failure or blockage Check evaporator blower wiring and connectors Check indoor blower control board Check thermostat wiring for open circuit Evaporator coil is frozen <ul style="list-style-type: none"> Check for low suction pressure Check for excessively low thermostat setting Check evaporator airflow (coil blockages or return air filter) Check ductwork or registers for blockage Faulty metering device <ul style="list-style-type: none"> Check TXV bulb installation (size, location and contact) Check if TXV/fixed orifice is stuck closed or defective Condenser coil is dirty Liquid line restriction (filter drier blocked if present in system) Thermostat is malfunctioning <ul style="list-style-type: none"> Check thermostat sub-base or wiring for short circuit Check thermostat installation (location, level) Compressor Second Stage Cooling Wiring (Except Part # 543-0012-00) <ul style="list-style-type: none"> Solenoid plug not connected Y2 not wired
Yellow "ALERT" Flash Code 2	System Pressure Trip High Refrigerant Charge Discharge pressure out of limits or compressor overloaded	<ol style="list-style-type: none"> High head pressure <ul style="list-style-type: none"> Check high pressure switch if present in system Check if system is overcharged with refrigerant Check for non-condensable in system Condenser coil poor air circulation (dirty, blocked, damaged) Condenser fan is not running <ul style="list-style-type: none"> Check fan capacitor Check fan wiring and connectors Check fan motor for failure or blockage Return air duct has substantial leakage
Yellow "ALERT" Flash Code 3	Short Cycling Compressor is running only briefly	<ol style="list-style-type: none"> Thermostat demand signal is intermittent Time delay relay or control board defective If high pressure switch present go to Flash Code 2 information

LED Troubleshooting Information (continued)

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Yellow "ALERT" Flash Code 3	Short Cycling Compressor is running only briefly	<ol style="list-style-type: none"> Thermostat demand signal is intermittent Time delay relay or control board defective If high pressure switch present go to Flash Code 2 information
Yellow "ALERT" Flash Code 4	Locked Rotor	<ol style="list-style-type: none"> Run capacitor has failed Low line voltage (contact utility if voltage at disconnect is low) <ul style="list-style-type: none"> Check wiring connections Excessive liquid refrigerant in compressor Compressor bearings are seized <ul style="list-style-type: none"> Measure compressor oil level
Yellow "ALERT" Flash Code 5	Open Circuit	<ol style="list-style-type: none"> Outdoor unit power disconnect is open Compressor circuit breaker or fuse(s) is open Compressor contactor has failed open <ul style="list-style-type: none"> Check compressor contactor wiring and connectors Check for compressor contactor failure (burned, pitted or open) Check wiring and connectors between supply and compressor Check for low pilot voltage at compressor contactor coil High pressure switch is open and requires manual reset Open circuit in compressor supply wiring or connections Unusually long compressor protector reset time due to extreme ambient temperature Compressor windings are damaged <ul style="list-style-type: none"> Check compressor motor winding resistance
Yellow "ALERT" Flash Code 6	Open Start Circuit Current only in run circuit	<ol style="list-style-type: none"> Run capacitor has failed Open circuit in compressor start wiring or connections <ul style="list-style-type: none"> Check wiring and connectors between supply and the compressor "S" terminal Compressor start winding is damaged <ul style="list-style-type: none"> Check compressor motor winding resistance
Yellow "ALERT" Flash Code 7	Open Run Circuit Current only in start circuit	<ol style="list-style-type: none"> Open circuit in compressor run wiring or connections <ul style="list-style-type: none"> Check wiring and connectors between supply and the compressor "R" terminal Compressor run winding is damaged <ul style="list-style-type: none"> Check compressor motor winding resistance
Yellow "ALERT" Flash Code 8	Welded Contactor Compressor always runs	<ol style="list-style-type: none"> Compressor contactor has failed closed Thermostat demand signal not connected to module Note: Disabled on 543-0010-01, 943-0010-01
Yellow "ALERT" Flash Code 9	Low Voltage Control circuit < 17VAC	<ol style="list-style-type: none"> Control circuit transformer is overloaded Low line voltage (contact utility if voltage at disconnect is low) <ul style="list-style-type: none"> Check wiring connections

Flash Code number corresponds to a number of LED flashes, followed by a pause and then repeated.
TRIP and ALERT LEDs flashing at same time means control circuit voltage is too low for operation.