

HEAT KIT TROUBLESHOOTING GUIDE

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WARNING

ONLY PERSONNEL THAT HAVE BEEN TRAINED TO INSTALL, ADJUST, SERVICE, MAINTENANCE OR REPAIR (HEREINAFTER, "SERVICE") THE EQUIPMENT SPECIFIED IN THIS MANUAL SHOULD SERVICE THE EQUIPMENT.

THIS EQUIPMENT IS NOT INTENDED FOR USE BY PERSONS (INCLUDING CHILDREN) WITH REDUCED PHYSICAL, SENSORY OR MENTAL CAPACITIES, OR LACK OF EXPERIENCE AND KNOWLEDGE, UNLESS THEY HAVE BEEN GIVEN SUPERVISION OR INSTRUCTION CONCERNING USE OF THE APPLIANCE BY A PERSON RESPONSIBLE FOR THEIR SAFETY.

CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE EQUIPMENT.

THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SUPERVISION, SERVICE OR SERVICE PROCEDURES. IF YOU SERVICE THIS UNIT, YOU ASSUME RESPONSIBILITY FOR ANY INJURY OR PROPERTY DAMAGE WHICH MAY RESULT. IN ADDITION, IN JURISDICTIONS THAT REQUIRE ONE OR MORE LICENSES TO SERVICE THE EQUIPMENT SPECIFIED IN THIS MANUAL, ONLY LICENSED PERSONNEL SHOULD SERVICE THE EQUIPMENT. IMPROPER SUPERVISION, INSTALLATION, ADJUSTMENT, SERVICING, MAINTENANCE OR REPAIR OF THE EQUIPMENT SPECIFIED IN THIS MANUAL, OR ATTEMPTING TO INSTALL, ADJUST, SERVICE OR REPAIR THE EQUIPMENT SPECIFIED IN THIS MANUAL WITHOUT PROPER SUPERVISION OR TRAINING MAY RESULT IN PRODUCT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



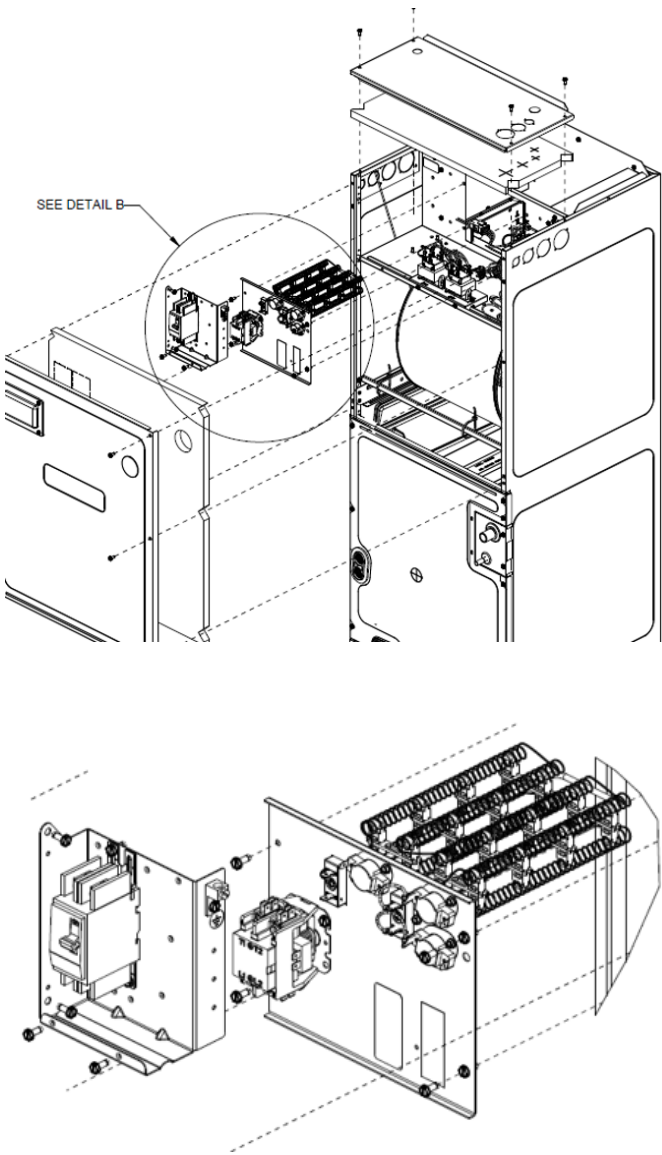
WARNING

DO NOT BYPASS SAFETY DEVICES.



WARNING

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



This publication provides a list of the only approved cleaners recommended to clean evaporator coils.
Any cleaner not contained in the above chart should not be used.
Contact Technical Services for variations or applications outside those outlined in this document.

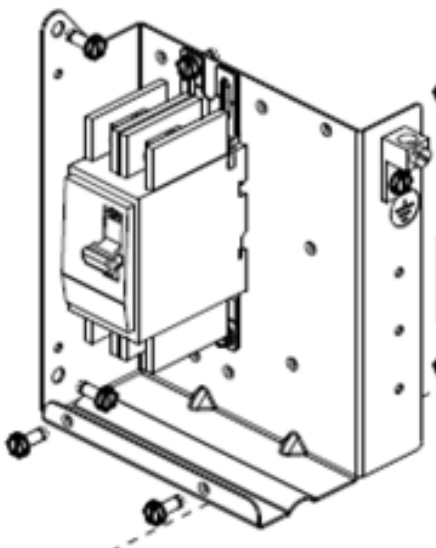


DAIKIN PN	COILS	CONTAC-TOR	BREAK-ER
HKTSN03X1	1	1	NA
HKTSN05X1	1	1	NA
HKTSN06X1	2	1	NA
HKTSN08X1	2	1	NA
HKTSN10X1	2	1	NA
HKTSD05X1	1	1	1
HKTSD08X1	2	1	1
HKTSD10X1	2	1	1
HKTSD15XA	3	2	2
HKTSD15XB	3	2	2
HKTSD19CA	4	2	2
HKTSD19CB	4	2	2
HKTSD20DA	4	2	2
HKTSD20DB	4	2	2
HKTSD20DH	4	2	2
HKTSD19CH	4	2	2
HKTSD25D1	5	3	3
HKTSD25DA	5	3	3
HKTSD25DB	5	3	3
HKTSD15X3	3	1	1
HKTSD20X3	3	1	1
HKTSN15X3	3	1	NA
HKTSN20X3	3	1	NA

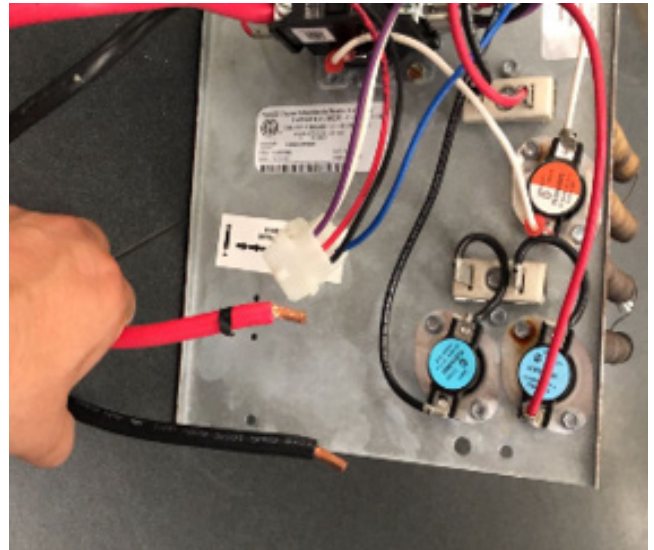
TABLE 1. COMPONENT'S CHART PER KIT

Troubleshooting guide

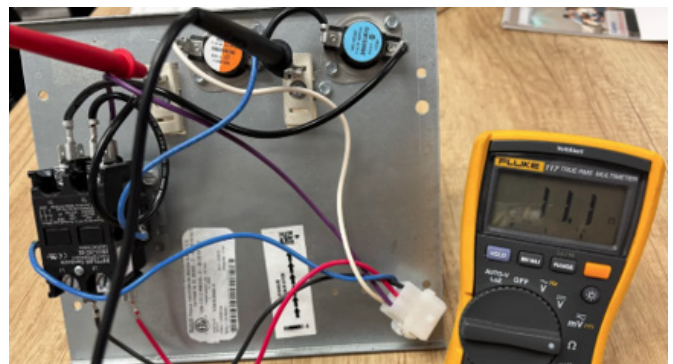
1. Turn off all power to the air handler and heat kit.
2. Remove upper panel.
3. Visually inspect the circuit breaker position on the air handler, heat-kit, or installation to determine if it had tripped



4. Ensure panel circuit breaker if relevant is disconnected, then measure continuity of the circuit breaker.
5. Visually inspect all wires for any sign of damage or degradation from heat or loose connections.
6. Repair or replace if necessary.



7. Independently measure the resistance of each heating element and validate continuity



8. See chart below for resistance value per kit.

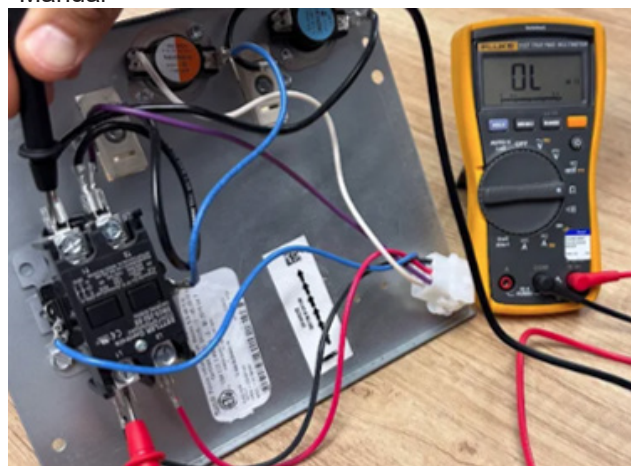
Daikin PN	Coil Ohms Nominal	Element (Individual)	
		Min Thresh-old	Max Thresh-old
HKTSN03X1	16.77	15.1	18.4
HKTSN05X1	10.76	9.7	11.8
HKTSN06X1	16.77	15.1	18.4
HKTSN08X1	12.42	11.2	13.7
HKTSN10X1	10.76	9.7	11.8
HKTSD05X1	10.76	9.7	11.8
HKTSD08X1	12.42	11.2	13.7
HKTSD10X1	10.76	9.7	11.8
HKTSD15XA	10.76	9.7	11.8
HKTSD15XB	10.76	9.7	11.8
HKTSD19CA	10.76	9.7	11.8
HKTSD19CB	10.76	9.7	11.8
HKTSD20DA	10.76	9.7	11.8
HKTSD20DB	10.76	9.7	11.8
HKTSD20DH	10.76	9.7	11.8
HKTSD19CH	10.76	9.7	11.8
HKTSD25D1	10.76	9.7	11.8
HKTSD25DA	10.76	9.7	11.8
HKTSD25DB	10.76	9.7	11.8
HKTSD15X3	10.76	9.7	11.8
HKTSD20X3	9.22	8.3	10.1
HKTSN15X3	10.76	9.7	11.8
HKTSN20X3	9.22	8.3	10.1

9. Independently measure the continuity of each primary limit and overcurrent protection device. If “OL” appears, devices are damaged.
10. Replace failed or damaged limit or overcurrent protection device. **(RP-7043) Parts Manual.**



11. Independently measure the continuity of each contactor coil. “OL” must appear in multimeter to confirm that contacts are not welded.

12. If “OL” not present replace contactor. **(RP-7043) Parts Manual**



Symptom	Possible Causes	Recommended Actions
No Heat Output	Supply voltage issue Circuit breaker open Damaged heating element Damaged or faulty primary limit('s) Open or damaged one-shot devices Failed contactor('s) Loose or burnt wiring Low voltage connection issue	Check line voltage to heat-kit or circuit breaker Cycle circuit breaker Measure element resistance independently for all elements Measure continuity across all primary limits and one-shot devices Visually inspect contactors Verify that wiring is tightly connected
Partial or Uneven Heating	One or more elements open Single stage of two-stage control not energizing Loose wiring connection	Test each element individually Check staging logic and contactor operation Tighten/inspect wiring
Overcurrent Protection Trips	Shorted element to ground Shorted line to line Overcurrent from wrong wiring Faulty contactor/short circuit	Insulation resistance test Dielectric Strength Test Verify wiring vs. schematic Inspect contactor contacts for weld
Overheating / Primary Limit Open	Airflow loss (fan failure) Dirty filter or duct restriction Improper installation Primary limit switch failure	Confirm blower is operational Check and replace filters Compare heater kW vs. airflow capacity Test/replace high limit switch Check device using continuity
Backup Protection Device Open	Primary limit switch failure and abnormal condition Backup Protection device failure Backup device improperly handled (disc depressed)	Check device using continuity Check primary limit using continuity Validate proper system performance
Significant Noise	Contactor chatter Loose electrical connection Incorrect control voltage	Verify control voltage matches spec Tighten connections Replace worn contactor
Odor	Dust burning off coil Insulator cracking Overheated wiring	Allow initial burn-off if new Inspect bushings/insulators Check wiring gauge and tightness

13. Energize breakers powering air handler and heat kit.
14. Check for power operation.
15. Replace all panels on unit and set thermostat for normal operation.

Heat kit requires replacement.

1. If replacing heat kit is necessary. Follow the steps below.
2. Turn off all power to the air handler and heat kit.
3. Remove and mark all wiring from heat kit.
4. Remove screws that hold heat kit in place and slide out of unit.
5. Replace heat kit and reattach wires previously removed.
6. Energize breakers powering air handler and heat kit.
7. Check for power operation.
8. Replace all panels on unit and set thermostat for normal operation.

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NOTE: SPECIFICATIONS AND PERFORMANCE DATA LISTED HEREIN ARE SUBJECT TO CHANGE WITHOUT NOTICE

Quality Makes the Difference!

All of our systems are designed and manufactured with the same high quality standards regardless of size or efficiency. We have designed these units to significantly reduce the most frequent causes of product failure. They are simple to service and forgiving to operate. We use quality materials and components. Finally, every unit is run tested before it leaves the factory.

That's why we know...There's No Better Quality.

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