



A1 Air Conditioning & Heating

32-Point Furnace Tune-Up Checklist

#	Inspection Task
1	Inspect cabinet and cabinet panels.
2	Inspect the required clearance (e.g., combustion and service) around cabinet.
3	Inspect electrical disconnect box.
4	Ensure proper equipment grounding at appliance
5	Measure and record line voltage.
6	Inspect and test relays at internal furnace control.
7	Inspect electrical connections and wire.
8	Inspect motor capacitors if required.
9	Measure and record amperage draw to motor/nameplate data (FLA) as available.
10	Verify correct operation of thermostat.
11	Verify correct operation of outdoor temperature sensor, as necessary.
12	Verify operation of emergency off/on switch.
13	Determine and record Delta-T across heat exchanger.
14	Test variable frequency drive (e.g., ECM) for proper operation.
15	Confirm the blower wheel has a tight connection to the blower motor shaft. Inspect fan for free rotation and minimal endplay.
16	Inspect condensate drain piping (and traps) for proper operation
17	Inspect burner and flue for signs of water, corrosion, and blockage.

18	Test inducer fan motor and blower assembly.
19	Inspect heat exchanger for signs of corrosion, fouling, structural problems (e.g., cracks, perforations, and bulges), and erratic flame operation during blower operation.
20	Visually inspect burners for signs of contamination.
21	Inspect hot surface igniter for cracks (white spots when energized or check cold with ohmmeter and proper supply voltage).
22	Check inlet gas pressure at inlet pressure tap, as necessary.
23	Check and adjust manifold pressure, as necessary.
24	Inspect ceramic insulator, flame rod, and associated wiring for any cracks or abnormalities.
25	Test main burner ignition sequence and flame safety; verify proper operation.
26	Test burners.
27	Inspect the spark igniter and associated wiring, as necessary.
28	Check for adequate combustion air volume.
29	Perform combustion analysis test. Measure and record test results.
30	Inspect vent exhaust system (e.g., chimney, chimney liner, flue, inlet and exhaust vent) for signs of improper condensation, water corrosion, cracks, fractures, and blockages.
31	Inspect vent connectors for rust discoloration, or signs of condensate.
32	Inspect inlet and exhaust vent pipe for proper support, slope, and termination.