

HEATER TROUBLESHOOTING GUIDE FOR EVANS TEMPCON HEATER – A/C SYSTEMS

PROBLEM	POSSIBLE CAUSES	REMEDY
<p>1. Inadequate or no heat. (Discharge air only slightly warm, or neutral).</p>	<ul style="list-style-type: none"> • Engine cooling system is low on coolant. • Water valve stuck closed. • Excessive outside air leaks into coach body work and firewall under dash. • Pinched heater hose or other system flow restriction. • Engine running cold. Engine thermostat stuck open. 	<ul style="list-style-type: none"> • Check the engine coolant level per the chassis manufacturer's recommendations. Add coolant as required. • For electronic valves, see: ELECTRONIC COOLANT VALVE or EVANS NEW ELECTRONIC VALVE • Locate and seal all leaks as required. • Examine heater hoses from the engine cooling system to the heater core for pinches and kinks. Repair or replace as required. Visually examine the heater core for dented tubes. Check the core for free flow by circulating an outside water source through it. Replace the heater core if a restriction is observed. • Check vehicle engine coolant temperature specifications according to the chassis manufacturer's recommendation. Repair if required.
<p>2. Passenger temperature dial controls heated discharge air on Driver's side.</p>	<ul style="list-style-type: none"> • Driver and Passenger valves wired backwards (connections reversed at valves) • Valves plumbed to base unit backwards (i.e. driver supply to passenger core and vice-versa). 	<ul style="list-style-type: none"> • Check labeled connections at valves. Harness connector labeled "D" connects to driver valve; "P" to passenger valve. • Check labeled connections from valves to heater inlet hoses; "D" to driver; "P" to passenger.
<p>3. Passenger temperature dial does not change the temperature of the treated air on the Passenger side.</p>	<ul style="list-style-type: none"> • Mode selector switch in DEFROST mode or DRIVER OVERRIDE switch engaged (designed response). 	<ul style="list-style-type: none"> • Check mode selector dial position.

NOTE: FOLLOW DIAGNOSIS PROCEDURE IN "REMEDY" COLUMN IN THE ORDER LISTED.

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<p>3. Passenger temperature dial does not change the temperature of the treated air on the Passenger side. (Continued)</p>	<ul style="list-style-type: none"> • Passenger valve or temperature controller disconnected. • Passenger control harness disconnected from main HVAC harness. • Faulty signal from Passenger temperature controller/defective controller. • Defective Passenger coolant valve. • Kinked or pinched heater hose. 	<ul style="list-style-type: none"> • Check electrical connections. • Check electrical connections. • Check continuity of circuits 010, 012, and 013 from temperature controller to valve (see schematic) / replace controller. • Replace valve. • Check hoses for kinks.
<p>4. Driver temperature dial does not change the temperature of the treated air discharged on the Driver's side.</p>	<ul style="list-style-type: none"> • Driver valve or temperature control disconnected. • Faulty signal from Driver temperature controller/defective controller. • Defective Driver coolant valve. • Kinked or pinched heater hose. 	<ul style="list-style-type: none"> • Check electrical connections. • Check continuity of circuit 009 (see schematic) / replace controller. • Replace Valve • Check hoses for kinks.
<p>5. Temperature controls for both sides not functioning.</p>	<ul style="list-style-type: none"> • Fuse blown • Valves disconnected. • Chassis power disconnected (red wire from HVAC fuse panel to chassis power supply). • Kinked or pinched heater hose. 	<ul style="list-style-type: none"> • Replace fuse. • Check valve connections. • Check connection to chassis power supply. • Check hoses for kinks.

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