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Service Category: Vehicle Interior	Section: Heating/Air Conditioning	
Model Year: 2008	Model: LX570	Doc ID: RM000002LIQ005X
Title: HEATING / AIR CONDITIONING: AIR CONDITIONING SYSTEM: PROBLEM SYMPTOMS TABLE (2008 LX570)		

PROBLEM SYMPTOMS TABLE

HINT:

- Use the table below to help determine the cause of problem symptoms. If multiple suspected areas are listed, the potential causes of the symptoms are listed in order of probability in the "Suspected Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.
- Inspect the fuses and relays related to this system before inspecting the suspected areas below.

Front Air Conditioning Unit

SYMPTOM	SUSPECTED AREA	SEE PAGE
All functions of air conditioning system do not operate	Harness or connector	-
	IG power source circuit	INFO
	Back-up power source circuit	INFO
	Display and navigation module display*1	INFO
	Multi-display*2	INFO
	Air conditioning amplifier assembly	INFO
Air Flow Control: No blower operation	Harness or connector	-
	Blower motor circuit	INFO
	Air conditioning amplifier assembly	INFO
Air Flow Control: Insufficient air flow	Blower motor circuit	INFO
	Air conditioning amplifier assembly	INFO
Temperature Control: No cool air comes out	Volume of refrigerant	INFO
	Refrigerant pressure	INFO
	Cooler compressor assembly	INFO
	Pressure sensor circuit	INFO
	Front air mix damper servo motor (for driver side)	INFO
	Front air mix damper servo motor (for driver side rear air flow)	INFO
	Front air mix damper servo motor (for front passenger side)	INFO
	Front air mix damper servo motor (for front passenger side rear air flow)	INFO
	Room temperature sensor circuit	INFO
	Rear room temperature sensor LH circuit	INFO

SYMPTOM	SUSPECTED AREA	SEE PAGE
	Rear room temperature sensor RH circuit	INFO
	Solar sensor circuit (for driver side)	INFO
	Solar sensor circuit (for front passenger side)	INFO
	Ambient temperature sensor circuit	INFO
	Evaporator temperature sensor circuit	INFO
	Air conditioning harness assembly	INFO
	Air conditioning amplifier assembly	INFO
	CAN communication line	INFO
Temperature Control: No warm air comes out	Front air mix damper servo motor (for driver side)	INFO
	Front air mix damper servo motor (for driver side rear air flow)	INFO
	Front air mix damper servo motor (for front passenger side)	INFO
	Front air mix damper servo motor (for front passenger side rear air flow)	INFO
	Room temperature sensor circuit	INFO
	Rear room temperature sensor LH circuit	INFO
	Rear room temperature sensor RH circuit	INFO
	Solar sensor circuit (for driver side)	INFO
	Solar sensor circuit (for front passenger side)	INFO
	Ambient temperature sensor circuit	INFO
	Air conditioning harness assembly	INFO
	Air conditioning amplifier assembly	INFO
	CAN communication line	INFO
	Volume of refrigerant	INFO
	Refrigerant pressure	INFO
Temperature Control: Output air is warmer or cooler than the set temperature or response is slow	Front air mix damper servo motor (for driver side)	INFO
	Front air mix damper servo motor (for driver side rear air flow)	INFO
	Front air mix damper servo motor (for front passenger side)	INFO
	Front air mix damper servo motor (for front passenger side rear air flow)	INFO
	REC/FRS damper servo motor	INFO
	Cool air bypass damper servo motor	INFO

SYMPTOM	SUSPECTED AREA	SEE PAGE
	Room temperature sensor circuit	INFO
	Rear room temperature sensor LH circuit	INFO
	Rear room temperature sensor RH circuit	INFO
	Solar sensor circuit (for driver side)	INFO
	Solar sensor circuit (for front passenger side)	INFO
	Ambient temperature sensor circuit	INFO
	Cooler compressor assembly	INFO
	Heater radiator	-
	Air conditioning harness assembly	INFO
	Air conditioning amplifier assembly	INFO
	CAN communication line	INFO
Temperature Control: No temperature control (only max cool or max hot)	Room temperature sensor circuit	INFO
	Rear room temperature sensor LH circuit	INFO
	Rear room temperature sensor RH circuit	INFO
	Ambient temperature sensor circuit	INFO
	Cool air bypass damper servo motor	INFO
	Front air mix damper servo motor (for driver side)	INFO
	Front air mix damper servo motor (for driver side rear air flow)	INFO
	Front air mix damper servo motor (for front passenger side)	INFO
	Front air mix damper servo motor (for front passenger side rear air flow)	INFO
	Display and navigation module display*1	INFO
	Multi-display*2	INFO
	Air conditioning harness assembly	INFO
	Air conditioning amplifier assembly	INFO
	CAN communication line	INFO
PTC heater does not operate*3	PTC heater circuit	INFO
	Air conditioning amplifier assembly	INFO
No airflow mode control	Air outlet damper servo motor (for driver side mode)	INFO
	Air outlet damper servo motor (for rear seat mode)	INFO
	Air outlet damper servo motor (for front passenger side mode)	INFO

SYMPTOM	SUSPECTED AREA	SEE PAGE
	Air conditioning harness assembly	INFO
	Air conditioning amplifier assembly	INFO
Blinking of air conditioning switch indicator	Display and navigation module display*1	INFO
	Multi-display*2	INFO
	Air conditioning amplifier assembly	INFO
	CAN communication line	INFO
Diagnostic trouble codes are not stored. Set mode is cleared when engine switch is turned off.	Back-up power source circuit	INFO
	Air conditioning amplifier assembly	INFO

Rear Air Conditioning Unit

SYMPTOM	SUSPECTED AREA	SEE PAGE
All functions of air conditioning system do not operate	Harness or connector	-
	IG power source circuit	INFO
	Back-up power source circuit	INFO
	No. 2 air conditioning control assembly	INFO
	Air conditioning amplifier assembly	INFO
Air Flow Control: No blower operation	Rear blower motor circuit	INFO
	Air conditioning amplifier assembly	INFO
Air Flow Control: Insufficient air flow	Rear blower motor circuit	INFO
	Air conditioning amplifier assembly	INFO
Temperature Control: No cool air comes out	Volume of refrigerant	INFO
	Refrigerant pressure	INFO
	Cooler compressor assembly	INFO
	Pressure sensor circuit	INFO
	Rear air mix damper servo motor LH	INFO
	Rear air mix damper servo motor RH	INFO
	Rear room temperature sensor LH circuit	INFO
	Rear room temperature sensor RH circuit	INFO
	Ambient temperature sensor circuit	INFO
	Evaporator temperature sensor circuit	INFO
	Rear evaporator temperature sensor circuit	INFO
	Rear magnetic valve circuit	INFO
	No. 2 air conditioning harness assembly	-
	Air conditioning amplifier assembly	INFO
	CAN communication line	INFO

SYMPTOM	SUSPECTED AREA	SEE PAGE
Temperature Control: No warm air comes out	Rear air mix damper servo motor LH	INFO
	Rear air mix damper servo motor RH	INFO
	Rear room temperature sensor LH circuit	INFO
	Rear room temperature sensor RH circuit	INFO
	Ambient temperature sensor circuit	INFO
	No. 2 air conditioning harness assembly	-
	Duct sensor LH circuit	INFO
	Duct sensor RH circuit	INFO
	Air conditioning amplifier assembly	INFO
	CAN communication line	INFO

Cooling Box

SYMPTOM	SUSPECTED AREA	SEE PAGE
Cool box malfunction*4	Cooling box magnetic valve circuit	INFO
	Cooling box blower motor circuit	INFO
	Cooling box control switch circuit	INFO
	Cooling box sensor circuit	INFO
	Air conditioning amplifier assembly (for cool box)	-
	No. 1 cooler wiring harness sub-assembly	-
	Noise filter (built into cooling box unit)	-
	Fuse (built into cooling box unit)	-

*1: w/ Navigation System

*2: w/o Navigation System

*3: w/ PTC Heater

*4: w/ Cool Box

