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Coding Information

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Title: Sleeper Fan and Sleeper TEMP Switch Inoperative

Applies To: ProStar and LoneStar

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

10/2/2014 - Initial Article Release

DESCRIPTION

This document is supplemental to [IK1900228](#) and addresses inoperative SLPR-FAN and SLPR-TEMP switches.

SYMPTOM(s)

No cab control of rear A/C

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):

DTC/Light	Description
Not Applicable	

Possible Causes:

- Failed switch pack
- Failed private 1708 datalink

Customer Observations or Concerns:

- No rear A/C control from cab
- Rear A/C not blowing cold enough
- No air flow through rear vent while driving

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
Diamond Logic Builder (DLB)			

[Tools Resource Center](#)

SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Notes
Not Applicable			

DIAGNOSTIC STEP(s)

WARNING:

To prevent property damage, personal injury, and / or death, read all safety instructions in the "Safety Information" section of the Service Manual or Diagnostic Manual.

WARNING:

To prevent property damage, personal injury, and / or death, park vehicle on a hard, flat surface, turn engine off, set parking brake, and install wheel chocks to prevent vehicle from moving in either direction.

WARNING:

To prevent personal injury and / or death, make sure the engine has cooled before removing components.

NOTE:

The following procedures are ONLY VALID if A/C system is fully charged and A/C system checks in [IK1900228](#) were performed.

When a failed circuit or component is detected, repair as needed and retest for original problem.

Step	Action	Decision
#1	Switch Pack DTCs: a. Connect DLB. b. Turn ignition Key-ON. c. Check for DTCs related to switch packs.	Yes. Diagnose and repair switch pack related DTCs.
	Are there switch pack related DTCs?	No. Go to Step 2.

Step	Action	Decision
#2	Dash SLPR-TEMP SLPR-FAN: a. Use DLB to "Watch" following rear HVAC signals: <ul style="list-style-type: none"> • REAR_HVAC_Temp_UP • REAR_HVAC_Temp_DN • REAR_HVAC_Blower_UP • REAR_HVAC_Blower_DN 	Yes. Go to Step 7.

	<p>b. Activate SLPR-TEMP switch up and down while monitoring DLB signals. c. Activate SLPR-Blower switch up and down while monitoring DLB signals.</p> <p>Does DLB show signals check marked when appropriate switch is toggled?</p>	<p>No. DLB shows no switches active, go to Step 4.</p> <p>No. DLB shows one or more of switches active, but not all switches active, go to Step 3.</p>
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Step	Action	Decision
#3	<p>SLPR-TEMP SLPR-FAN:</p> <p>a. Turn ignition Key-OFF. b. Remove rocker switch from non-operating switch. c. Determine if rocker switch operates circuit board mounted micro switch.</p> <p>Does rocker switch depress micro switch?</p>	<p>Yes. Replace switch pack.</p> <p>No. Replace rocker components as needed.</p>

Step	Action	Decision
#4	<p>Switch Pack PWR / GND:</p> <p>a. Turn ignition Key-OFF. b. Disconnect switch pack connector (1101M). c. Turn ignition Key-ON.</p> <div style="border: 2px solid purple; padding: 5px; margin: 10px 0;"> <p>NOTE:</p> <p>Ground stud located at left side dash mounted dual post ground plate.</p> </div> <p>d. Measure voltage between switch pack connector 1101M pin-B and good ground. e. Measure voltage between pin-B and pin-A of switch pack connectpr 1101M.</p> <p>Do Step 4.d and Step 4.e measure 10.5 - 13.5V?</p>	<p>Yes. Go to Step 5.</p> <p>No. Step 4.d has correct volatge and Step 4.e does not, check for open or high resistance from pin_A to ground stud.</p> <p>No. Both Step 4.d and Step 4.e have low voltage, inspect 10A fuse F4-K (1013). Inspect circuit A12F for open or short to ground.</p>

Step	Action	Decision
#5	<p>J1708 Data Link:</p> <p>a. Measure voltage at diagnostic connector (1650) terminal F to good ground.</p> <p>Is measurement approximately 2.5V?</p>	<p>Yes. Go to Step 6.</p> <p>No. If voltage is 0 volts, check J1708 circuit for short to ground or open circuit.</p> <p>If voltage is greater than 5 volts, J1708 circuit is shorted to voltage.</p>

Step	Action	Decision
#6	<p>J1708 Data Link:</p> <p>a. Measure voltage at diagnostic connector (1650) terminal G to good ground.</p>	<p>Yes. Replace switch pack.</p>

<p>Is measurement approximately 2.5V?</p>	<p>No. If voltage is 0 volts, check J1708 circuit for short to ground or open.</p> <p>If voltage is greater than 5 volts, J1708 circuit is shorted to voltage.</p>
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Step	Action	Decision
#7	<p>J1939 Data Link:</p> <p>a. Turn ignition Key-OFF. b. Disconnect rear HVAC controller harness connector (5210). c. Verify pin-15 and pin-16 of rear HVAC controller harness connector 5210 are properly seated and not miss-pinned. d. Verify both pin-15 and pin-16 resistance to ground is greater than 10K ohms. e. Turn ignition Key-ON. f. Measure voltage at pin-15 (J1939+). g. Measure voltage at pin-16 (J1939-). h. Turn ignition Key-Off. i. Measure resistance from rear HVAC controller harness connector 5210 pin-15 to pin-16.</p> <ul style="list-style-type: none"> • Step 7.f measurement should be approximately 2.3 volts • Step 7.g measurement should be approximately 2.6 volts • Step 7.f and Step 7.g measurements may vary by several tenths of a volt, higher or lower • Step 7.f and 7.g voltages should not be equal • Resistance from pin-15 to pin-16 should be 60 ohms <p>Are voltages and resistance readings correct?</p>	<p>Yes. Replace rear HVAC controller.</p>
	<p>No. One or both voltages are 0.0V: check circuit for continuity to body controller connector (1602) pin-F5 and pin-F6.</p>	
	<p>No. Voltages are identical: check that the two circuits are not shorted to each other.</p>	
	<p>No. If Step 7.i resistance is 120 ohms, check for an open in one of the J1939 circuits or a missing terminating resistor.</p>	

REPAIR STEP(S)

Not Applicable

REMOVAL PROCEDURE:

Not Applicable

INSTALLATION PROCEDURE:

Not Applicable

WARRANTY INFORMATION

Warranty Claim Coding:

Group:	19030 - Auxiliary No-Idle HVAC
Noun:	638 - Electric HVAC Module

Standard Repair Time(s):

Step	Description	Chassis	Engine	SRT	Hours
1	Switch Pack DTCs	ProStar/LoneStar	All	T-Time	0.2 hr
2	Dash SLPR-TEMP SLPR-FAN	ProStar/LoneStar	All	T-Time	0.1 hr

3	SLPR-TEMP SLPR-FAN	ProStar/LoneStar	All	T- Time	0.2 hr
4	Switch Pack PWR / GND	ProStar/LoneStar	All	T- Time	0.1 hr
5	Switch Pack PWR / GND	ProStar/LoneStar	All	T- Time	0.3 hr
6	J1708 Data Link	ProStar/LoneStar	All	T- Time	0.2 hr
7	J1939 Data Link	ProStar/LoneStar	All	T- Time	0.2 hr

OTHER RESOURCES

[Master Service Information Site](#)

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