NO.3 AIR INTAKE MODE DOES NOT CHANGE [MANUAL AIR CONDITIONER]

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3	Air intake mode does not change.	
DESCRIPTION	Air intake mode does not change when switching REC/FRESH mode.	
POSSIBLE • Air intake actuator malfunction		
CAUSE	Air intake door malfunction	

When performing an asterisked (*) troubleshooting inspection, shake the wiring harness and connectors while
performing the inspection to discover whether poor contact points are the cause of any intermittent malfunctions.
If there is a problem, inspect to make sure connectors, terminals and wiring harnesses are connected correctly
and undamaged.

Note

• The climate control unit controls the air intake mode when the airflow mode is in DEFROSTER so that it is fixed at FRESH mode. At this time, the airflow mode cannot be changed from FRESH to RECIRCULATE even if the REC switch is pressed, but this does not indicate a malfunction.

STEP	stic procedure INSPECTION		ACTION
1	INSPECT TO SEE WHETHER MALFUNCTION	Yes	Go to the next step.
	IS IN AIR INTAKE ACTUATOR OR	No	Go to Step 3.
	ELSEWHERE		
	Disconnect the air intake actuator connector.		
	Measure the voltages at the following air intake		
	actuator terminals.		
	L.H.D.		
	 Terminal C (FRESH motor drive signal) 		
	Terminal B (RECIRCULATE motor drive		
	signal)		
	R.H.D.		
	Terminal B (FRESH motor drive signal)		
	Terminal C (RECIRCULATE motor drive		
	signal)		
_	• Are voltages normal?	\/	On the three Others O
2	INSPECT AIR INTAKE ACTUATOR	Yes	Go to the Step 6.
	• Inspect air intake actuator.	No	Replace the air intake actuator, then go to Step 8.
	(See AIR INTAKE ACTUATOR INSPECTION [MANUAL AIR CONDITIONER].)		(See AIR INTAKE ACTUATOR REMOVAL/INSTALLATION [MANUAL AIR CONDITIONER].)
	• Is it normal?		[MANUAL AIR CONDITIONER].)
3	INSPECT TO SEE WHETHER MALFUNCTION	Yes	Go to the next step.
J	IS IN WIRING HARNESS (SHORT TO B+	No	Repair the wiring harness for short to B+ between the climate
	BETWEEN CLIMATE CONTROL UNIT AND	110	control unit and air intake actuator, then go to Step 8.
	AIR INTAKE ACTUATOR) OR ELSEWHERE		control unit and an intake actation, then go to stop o.
	Air intake actuator and climate control unit		
	disconnected.		
	Switch the ignition ON (engine off or on).		
	Measure the voltages at the following air intake		
	actuator terminals.		
	L.H.D.		
	 Terminal C (FRESH motor drive signal) 		
	Terminal B (RECIRCULATE motor drive		
	signal)		
	R.H.D.		
	Terminal B (FRESH motor drive signal)		
	Terminal C (RECIRCULATE motor drive		
	signal)		
	• Are voltages approx. 0 V?		

STEP	INSPECTION		ACTION
4	INSPECT TO SEE WHETHER MALFUNCTION	Yes	Repair the wiring harness for short to ground between the
	IS IN WIRING HARNESS (SHORT TO GROUND		climate control unit and air intake actuator, then go to Step 8.
	BETWEEN CLIMATE CONTROL UNIT AND	No	Go to the next step.
	AIR INTAKE ACTUATOR) OR ELSEWHERE		
	Air intake actuator and climate control unit		
	connectors disconnected.		
	Switch the ignition off.		
	Inspect for continuity at the following terminals		
	between the air intake actuator and ground.		
	L.H.D.		
	Terminal C (FRESH motor drive signal)		
	Terminal B (RECIRCULATE motor drive		
	signal)		
	R.H.D. — Terminal B (FRESH motor drive signal)		
	Terminal B (FRESH filotof drive signal) Terminal C (RECIRCULATE motor drive		
	signal)		
	• Is there continuity?		
5	INSPECT TO SEE WHETHER MALFUNCTION	Yes	Go to the next step.
	IS IN WIRING HARNESS (OPEN CIRCUIT	No	Repair the wiring harness for open circuit between the
	BETWEEN CLIMATE CONTROL UNIT AND	''	climate control unit and air intake actuator, then go to Step 8.
	AIR INTAKE ACTUATOR) OR ELSEWHERE		σ · · · · · · · · · · · · · · · · · · ·
	Air intake actuator and climate control unit		
	connectors disconnected.		
	Switch the ignition off.		
	Inspect for continuity at the following terminals		
	between the climate control unit and air intake		
	actuator.		
	Air intake actuator terminal C (L.H.D.) /B		
	(R.H.D.) and climate control unit terminal E		
	(FRESH motor drive signal)		
	Air intake actuator terminal B (L.H.D.) / C		
	(R.H.D.) and climate control unit terminal C		
	(RECIRCULATE motor drive signal) • Is there continuity?		
6	INSPECT AIR INTAKE LINK	Yes	Go to the next step.
"	Inspect the air intake links.	No	Apply grease to the links. if any the links are damaged,
	Is there grease on link?	110	replace the air intake actuator, then go to Step 8.
	Are the links securely and properly		replace the all intake actuator, then go to ctop o.
	installed?		
	Are the links free of obstructions and		
	hindrances?		
	Are the above items normal?		
7	INSPECT TO SEE WHETHER MALFUNCTION	Yes	Replace the climate control unit, then go to the next step.
	IS IN CLIMATE CONTROL UNIT OR AIR	No	Remove obstruction, or install the doors in the proper
	INTAKE DOOR		position. If any doors are cracked or damaged, replace them,
	Inspect the blower unit air intake door.		then go to the next step.
	Is the door free of obstructions, cracks, and		
	damage?		
	Are the doors securely and properly		
	installed?		
0	• Are the above items normal?	Voc	Troublesheating completed
8	CONFIRM THAT MALFUNCTION SYMPTOMS DO NOT RECUR AFTER REPAIR	Yes	Troubleshooting completed.
	Does the air intake mode change smoothly?	No	Explain repairs to customer. Recheck malfunction symptoms, then repeat from Step 1 if
	2003 the all intake mode change smoothly!	INU	the malfunction recurs.
			the manufiction recurs.