TOYOTA

Technical Service BULLETIN

January 17, 2005

Title:

BLOWER MOTOR ONLY WORKS ON HIGH SPEED

Models:

'00 – '03 ECHO

TSB

Introduction

Some 2000 to 2003 model year ECHO vehicle customers may experience a blower fan that only works on high speed. A production change was implemented to the air duct to prevent this condition. This TSB provides a field–fix repair to improve this condition. Follow the repair procedures described below.

Applicable Vehicles

- **2000 – 2003** model year **ECHO** vehicles produced **BEFORE** the Production Change Effective VINs shown below.

Production Change Information

PLANT		PRODUCTION CHANGE EFFECTIVE VIN
Takaoka	Line 1	JTD*T1#3#30290895
	Line 2	JTD*T1#3#35048679

Parts Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
87391–52020	87391–52021	Cover, Blower Motor	1
87138–52010	Same	Resistor, Blower	1
87103–52040	Same	Motor Assembly, w/Fan (USA Cold Spec)	1
87103–52060	Same	Motor Assembly, w/Fan (USA except Cold Spec)	1
N/A	88568–52010–83	Air Filter, Cabin	1
N/A	87529–0E010	Label A/C Filter	1

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
AC4010	HVAC Improvement	1.0	87391–52020	72	17

Applicable Warranty*:

This repair is covered under the Toyota Comprehensive Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.

* Warranty application is limited to correction of a problem based upon a customer's specific complaint.

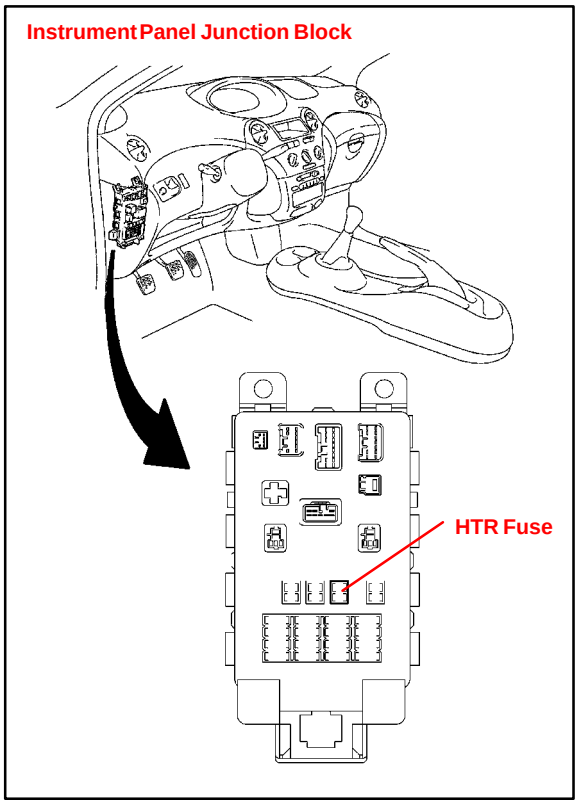
Repair Procedure: Inspection

Inspect HTR Fuse, Blower Resistor and Blower Motor

1. Inspect HTR Fuse.

A. Remove the HTR fuse from the instrument panel Junction Block.

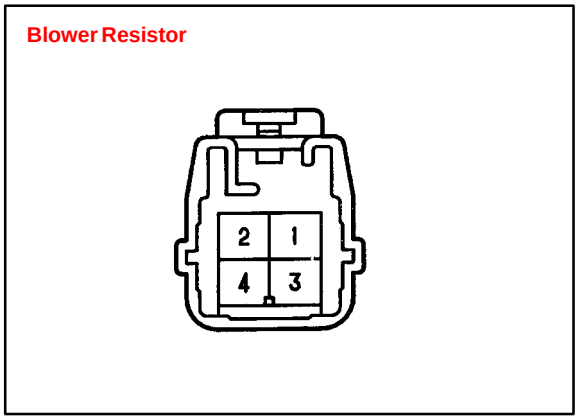
B. Visually inspect heater fuse. If the fuse is open, replace the HTR fuse.



2. Inspect Blower Resistor Resistance.

Tester Connection	Condition	Specified Condition
1 – 3	Constant	Approx. 0.4 Ω
1 – 2	Constant	Approx. 1.5 Ω
1 – 4	Constant	Approx. 2.8 Ω

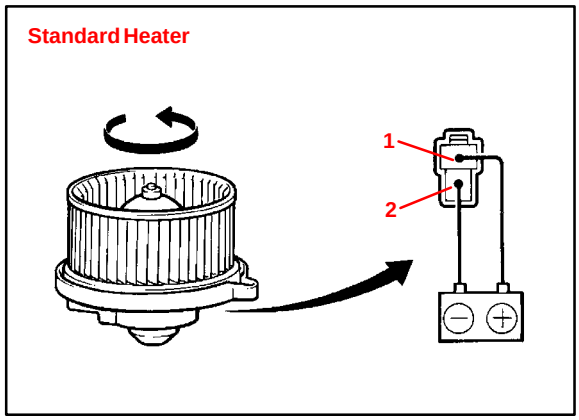
If resistance is not as specified, replace the blower resistor.

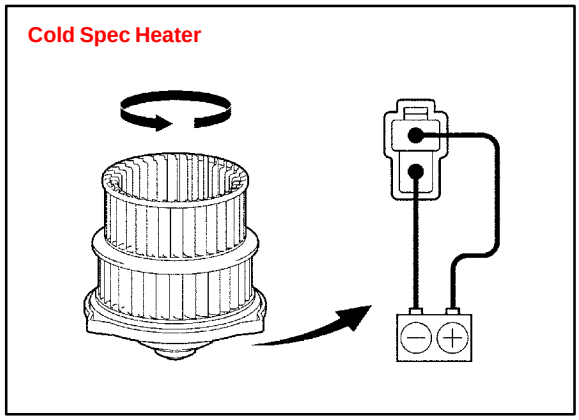


Repair Procedure: Inspection (Continued)

3. Inspect Blower Motor Operation.

Connect the positive (+) lead from the battery to terminal 1 and the negative (–) lead to terminal 2. Then check that the motor operates smoothly.
If operation is not as specified, replace the blower motor.





Repair Procedure: Replacement

Replace Blower Resistor and Blower Motor

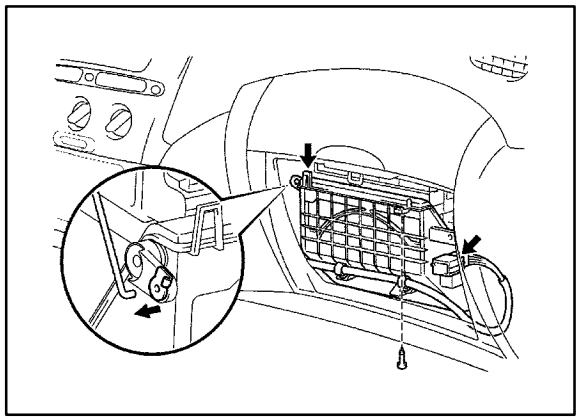
1. Remove Glove Compartment Door.

2. Remove Engine Engine Control Module or ECM (SAE term: Powertrain Control Module/PCM).

A. Disconnect the wire harness clamps.
B. Disconnect the connectors.
C. Remove the 2 bolts and engine ECM (PCM).

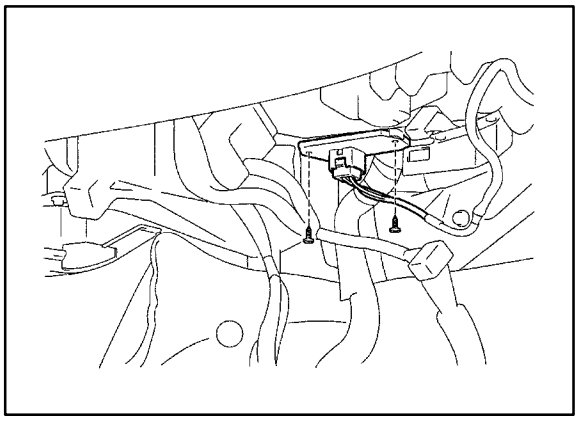
3. Cold Spec Heater Models Only: Remove Air Duct (Motor Cover).

A. Disconnect the control link.
B. Disconnect the connectors.
C. Disconnect the connector clamps.
D. Disconnect the wire harness clamps.
E. Remove the screw.
F. Release the claw and remove the air duct.

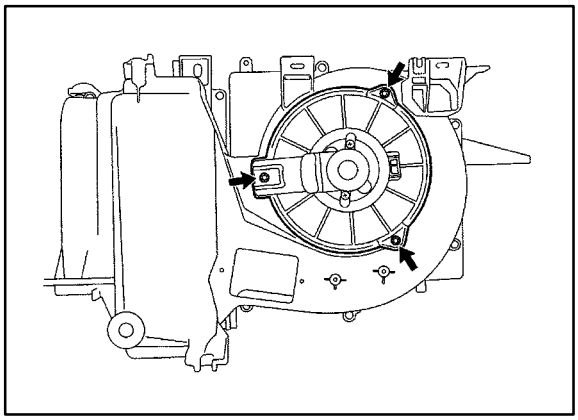


Repair Procedure: Replacement (Continued)

4. **Remove Blower Resistor.**
   A. Disconnect the connector.
   B. Remove the 2 screws and blower resistor.

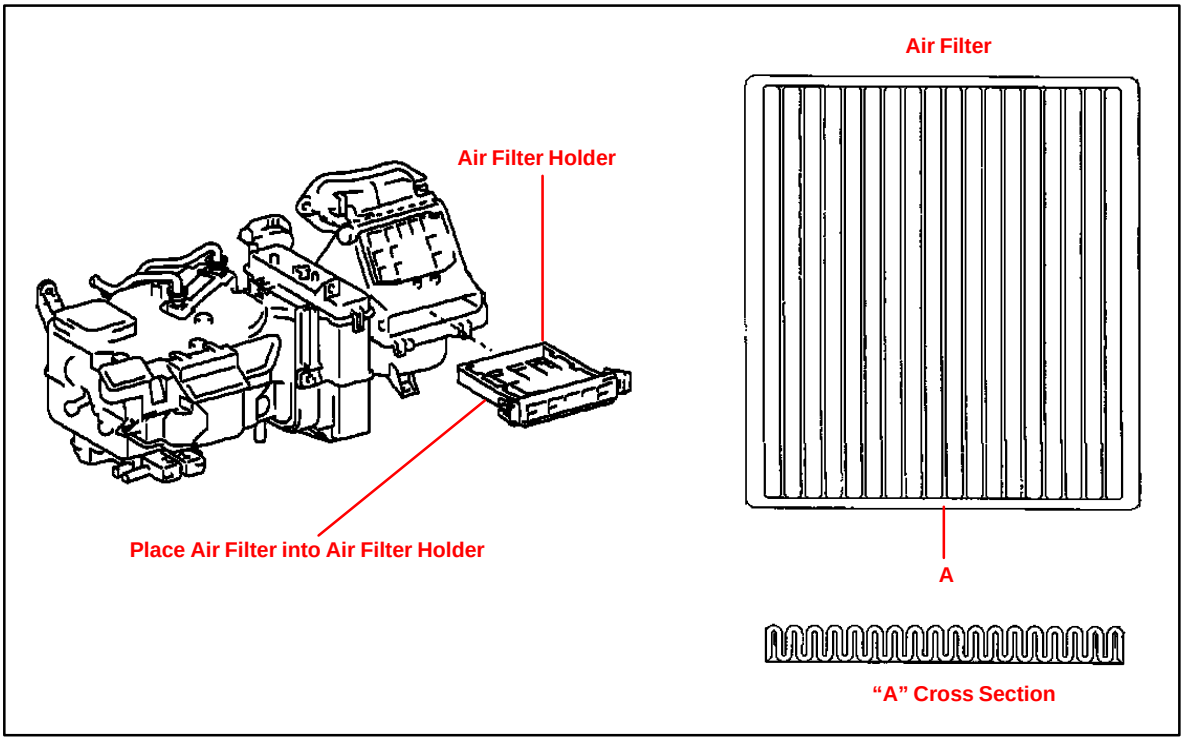


5. **Remove Blower Motor.**
   A. Disconnect the connector.
   B. Remove the 3 screws and blower motor.



6. **Install New Blower Motor.**
7. **Install New Blower Resistor.**
8. **Cold Spec Heater Models Only: Install Air Duct (Motor Cover).**
9. **Install Engine ECM (PCM).**
10. **Install Cabin Air Filter.**

NOTE:
The vehicle may not have had the cabin air filter. The addition of the filter is part of this repair procedure.



Repair Procedure: Replacement (Continued)

11. Attach A/C Filter Label.

Adhere the A/C Filter Label to the backside of the glove compartment door.

12. Install Glove Compartment Door.

13. Verify the Operation of the Blower Motor at all Speeds.