

Service Category Vehicle Interior

Section Heating/Air Conditioning

Market USA



### Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2005 – 2011	Tacoma	

#### Introduction

Some Tacoma vehicles may experience a condition where the blower motor only operates on High and all other blower speeds are inoperative. The blower motor resistor and resistor connector have been updated to address this condition.

#### **Production Change Information**

This TSB applies to vehicles produced **BEFORE** the Production Change Effective VINs shown below.

MODEL	DRIVETRAIN	PLANT	PRODUCTION CHANGE EFFECTIVE VIN	
		ТММТХ	5TFNX4CN#BX001936	
	4x2		5TFTX4CN#BX002326	
			5TFTU4CN#BX001045	
			5TFTU4GN#BX002374	
	PreRunner		5TFJU4GN#BX002368	
			5TFKU4HN#BX001093	
	4x4		5TFPX4EN#BX001922	
Tacoma			5TFUX4EN#BX002325	
			5TFUU4EN#BX003628	
			5TFLU4EN#BX003634	
			5TFMU4FN#BX001732	
			3TMLU4EN#BC059289	
			3TMMU4FN#BC025441	
	PreRunner	TMMBC	3TMJU4GN#BC112616	
	PreRunner Long Bed		3TMKU4HN#BC027736	

#### **Parts Information**

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
87138-04050	87138-04052	Resistor, Blower	1
82141-04M40	Same	Wire Pigtail	1
82999-12030	Same	Terminal Joint Repair	4

#### **Required Tools & Equipment**

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
AMP47100-1 Crimper	00002-06000-01	1

\* Essential SST.

#### NOTE

Additional SSTs may be ordered by calling 1-800-933-8335.

#### **Required Materials**

TOOLS & MATERIAL	Text QUANTITY
Electrical Tape	1

#### Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
AC9017	Blower Motor Resistor and Connector Repair	1.1	87138-04050	72	41

#### 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 occurrence of the specified condition described in this bulletin.

#### **Repair Procedure**

1. Verify the blower motor only operates on High.

#### NOTE

If the blower motor operates on any speed other than High and the connector is NOT discolored this TSB does NOT apply.

2. Disconnect the negative battery cable.

#### **Repair Procedure (Continued)**

3. Disconnect the blower motor resistor connector and remove the blower motor resistor.

#### NOTE

Steps 4 - 8 will need to be repeated for each of the 4 wires on the new connector pigtail.





- 4. Cut the old connector from the Harness.
  - A. Use the new wire lead as a guide for proper length.

#### NOTE

If the length of wire removed is not approximately the same length as the new piece, the following problems may develop:

- Too short tension on the terminal, splice, or the connector, causing an open circuit.
- Too long excessive wire near the connector, may get pinched or abraded, causing a short circuit.







#### **Repair Procedure (Continued)**

5. Strip insulation from wire on the harness and replacement terminal lead.

Start stripping at least 8 mm (0.31 in.) to 11 mm (0.43 in.) away from the end of the existing harness at vehicle side and also from the end of the repair wire.





 1
 Stripped Insulation Length Approximately 8-11

 2
 Existing Harness

 3
 Supplied Lead with New Terminal



3

Wire Insulation is Stripped at a Slant



6. Use the sleeve (P/N 82999-12030) to join the connector pigtail to the wire harness.

# NOTE Part Number 82999-12030 is designed to fit with an outside diameter of 3.0 – 5.0 mm.

### **Repair Procedure (Continued)**

7. Crimp the replacement terminal lead to the harness lead.

Figure 5.



- A. Overlap the two stripped wire ends inside the sleeve as shown.
- B. The crimping tool (AMP47100-1) with the yellow mark. Place the sleeve in the correct section of the tool according to the color of the sleeve itself.



1	Crimping Tool
2	Color Marks
3	Sleeve

### **Repair Procedure (Continued)**

C. With the center of the sleeve correctly placed between the crimping jaws, squeeze the crimping tool until this sleeve has been fully crimped.



 1
 "CLOSE HERE"

 2
 Contact

#### HINT

Check to see that the sleeve and wires are still in the correct position before closing the crimping tool ends with steady pressure.

D. Pull the joined wires to either end. Make sure that they are joined firmly by the sleeve.

Figure 8.



### NOTICE

If the joined wires come loose the splice is defective, so replace the sleeve and repeat the procedure.

### **Repair Procedure (Continued)**

E. Crimp both ends of the sleeve with the crimping tool at the "INS" position.

Figure 9.

8. Protect joined section by wrapping electrical tape around the joints to protect them from moisture.

#### HINT

- Before starting the operation, thoroughly wipe dirt and grease off the sections to be joined.
- Do not let oil and dust, etc. get on the tape surface.
- A. Stretch the electrical tape until its width is reduced by half.

Figure 10.



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2	Three or More Times

### **Repair Procedure (Continued)**

B. Starting approximately 10 mm (0.39 in.) from the end of the sleeve, wrap the electrical tape around the sleeve three or more times while stretching the tape.



- 1 Three or More Times 2 10 mm (0.39 in.)
- C. When wrapping the sleeve with electrical tape, overlap each wrap half the width of the tape.





2

Two or More Times

# **HVAC Blower Motor Only Operates On High**

### **Repair Procedure (Continued)**

D. Firmly wrap the tape two times or more about 10 mm (0.39 in.) from the other end of the sleeve, then wrap the tape back towards the start again and firmly finish winding the tape around the center of the sleeve.



- Install the blower motor resistor and connect the new connector. Torque: 2.0 N\*m (20 kgf\*cm, 18 in\*lbf)
- 10. Connect the negative battery cable.
- 11. Verify the blower motor operates on all speeds.