



# Technical Service Bulletin

SUBJECT:		No: <b>TSB-17-14-001</b>	
<b>INOPERATIVE RADIATOR AND/OR CONDENSER FAN MOTOR</b>		DATE: <b>February, 2017</b>	
		MODEL: <b>See below</b>	
CIRCULATE TO:	<input type="checkbox"/> GENERAL MANAGER	<input checked="" type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input checked="" type="checkbox"/> WARRANTY PROCESSOR	<input type="checkbox"/> SALES MANAGER

## PURPOSE

In some cases, an inoperative fan may be caused by a melted connector at the radiator fan motor and/or the condenser fan motor. When this happens, dealers are instructed to modify the wiring harness for the connector, then replace the radiator and/or condenser fan motor and connectors.

## BACKGROUND

If the connector is exposed to high temperature conditions for long periods of time, the spring property in the female side of the connector malfunctions, resulting in terminal contact failure, ultimately overheating the connector. The material of the female terminal in the new connectors has improved heat resistance.

## AFFECTED VEHICLES

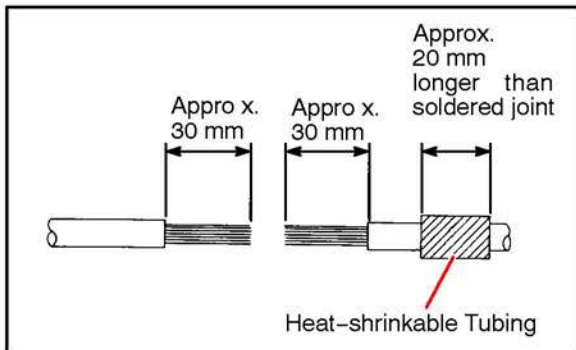
- 2011–2012 Outlander Sport/RVR vehicles built before September 2011
- Lancer vehicles built before October 2011:
  - 2008–2012 Lancer equipped with 4B11 engine
  - 2008–2010 Lancer equipped with 4B12 engine
  - 2009–2012 Lancer Sportback equipped with 4B12 engine
  - 2011–2012 Lancer Sportback equipped with 4B11 engine

## OVERVIEW

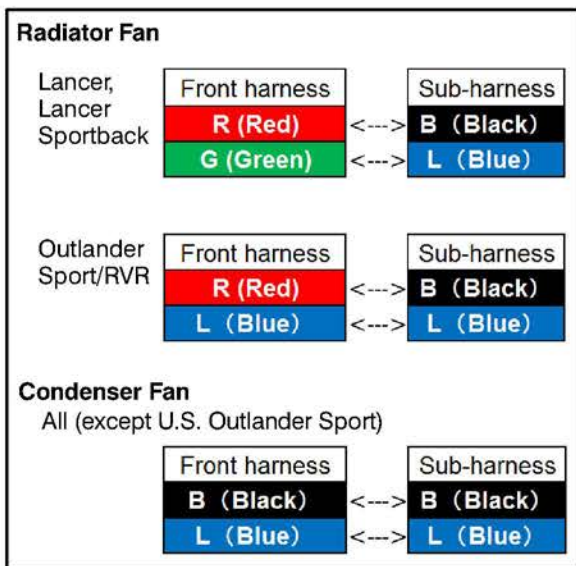
1. Confirm and identify the inoperative connector.
  - Radiator fan motor
  - Condenser fan motor (not applicable to Outlander Sport for U.S.)
2. Replace the affected fan motor, following the instructions in this TSB. Be sure to replace the flange nut (P/N MB605081) with a new part, as it is NOT reusable.
3. Regardless of the fan motor connector abnormality, implement the harness modification described in this TSB, and replace the connectors with the new parts.



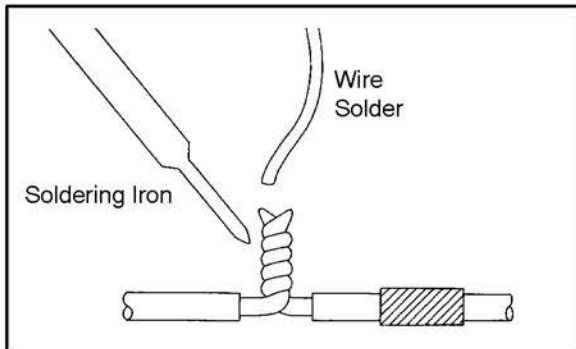
4. Follow the steps below to connect the front harness and the new sub-harness.



a. Slide a piece of heat-shrinkable tubing over the wires, then strip the plastic insulation off the ends of both wires.

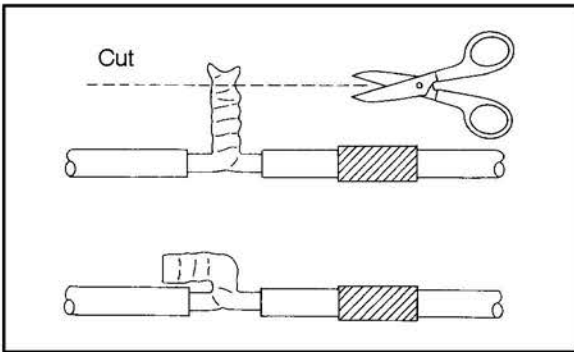


b. Connect the wires according to the diagram.



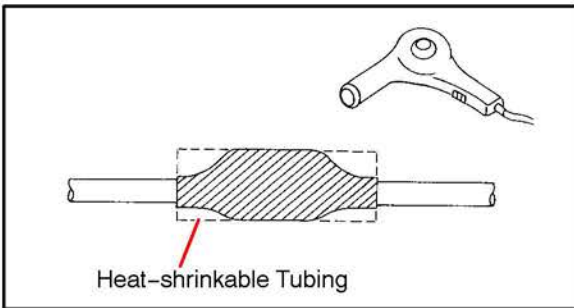
c. Twist together the conductors of the wires, then solder the twisted part.

**CAUTION:** Solder the wires as quickly as possible. If the soldering iron is applied for too long, the heat could damage nearby components.

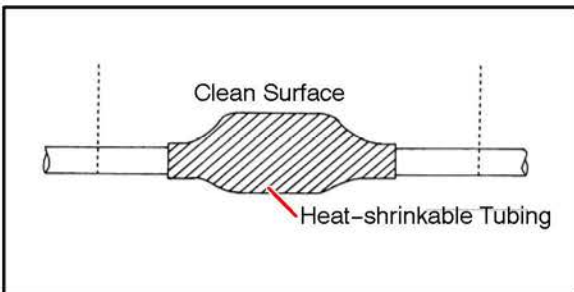


- d. Cut off the end of the soldered part with scissors, then cut off any protruding conductors.

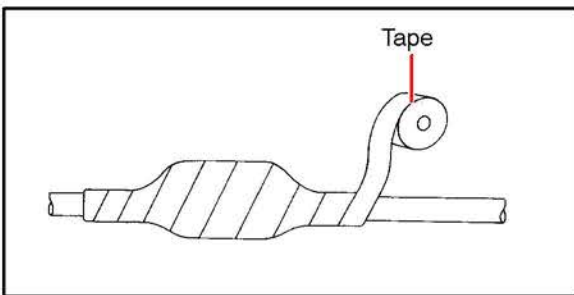
Next, bend the soldered part down alongside the wire.



- e. Slide the heat-shrinkable tubing over the soldered part, then use a heat gun heated to approximately 212°F (100°C) or higher. The tubing will shrink onto the joint.

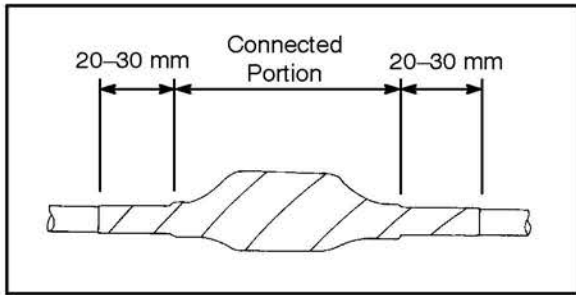


- f. Make sure the area to be wrapped is free of moisture, grease, and dirt.

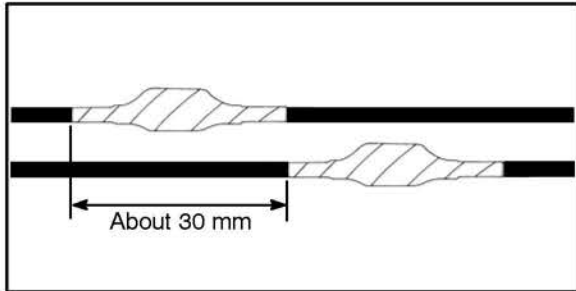


- g. Wrap the heat-shrinkable tubing with tape, overlapping the edges.



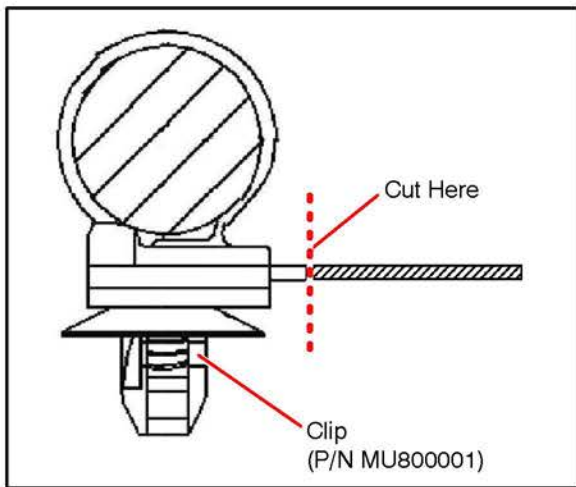


h. With a soldered or crimped joint, the tape should be wrapped 20 to 30 mm beyond the ends of the heat-shrinkable tubing.



i. Bundle 2 wires together with overlapping tape, making sure the previously connected portions are alternating, about 30 mm apart.

5. Cover the bundled wires with the corrugated tube (P/N 8558B946) from the Fan Harness Kit, covering from the connector root to the harness junction. Wrap any exposed wire protruding from the ends of the corrugated tube with vinyl tape.



6. Install the clip (P/N MU800001) from the Fan Harness Kit onto the bundled wires, about 105 mm from the tip of the connector. After installing, cut off the leftover band with scissors.

7. Connect the connectors into their original positions on the new parts, and attach the front harness to the fan shroud.

8. Reinstall remaining components, and confirm fan motor operation of both radiator and condenser fans.

## PARTS INFORMATION

Order only the Genuine Mitsubishi Parts listed below.

Description	Model	Part Number	Quantity
Radiator Fan Motor	Lancer, Lancer Sportback, Outlander Sport/RVR*	1355A093	1
Condenser Fan Motor		1355A131	1
Flange Nut		MB605081	2 per motor
Cooling Fan Harness Kit (for Fan Motor 90W + 70W)		1355A467	1
Cooling Fan Harness Kit (for Fan Motor 90W + 120W)	Outlander Sport**	1355A468	1

\* Outlander Sport/RVR models for Canada.

\*\* Outlander Sport models for U.S.

### Contents of Fan Harness Kit, P/N 1355A467:

Description	Part Number	Quantity
Cooling Fan Harness	1355A245	2
Heat Shrinkable Tubing (60 mm)	8558B948	2
Clip	MU800001	2
Corrugated Tubing	8558B946	1

### Contents of Fan Harness Kit, P/N 1355A468:

Description	Part Number	Quantity
Cooling Fan Harness	1355A245	1
Heat Shrinkable Tubing (60 mm)	8558B948	2
Clip	MU800001	1
Corrugated Tubing	8558B946	1

## WARRANTY INFORMATION

This bulletin is supplied as technical information only and is not an authorization to repair. If an affected vehicle is reported with the described condition, diagnose the condition, repair as described in this bulletin and submit a normal warranty claim using the following information.

### Lancer & Lancer Sportback (Fan Motor 90W + 70W) – Replacement & Modification of Radiator Fan Motor, Condenser Fan Motor, & Cooling Fan Harness:

Labor Operation Code	Nature Code	Cause Code	Time Allowance	Part Name	Part No.	Qty
144030PB	59A	120	1.0 hr	Radiator Fan Motor	1355A093	1
				Condenser Fan Motor	1355A131	1
				Cooling Fan Harness Kit	1355A467	1
				Flange Nut	MB605081	4

### Outlander Sport/RVR (Fan Motor 90W + 70W) (Canada models) – Replacement & Modification of Radiator Fan Motor, Condenser Fan Motor, & Cooling Fan Harness:

Labor Operation Code	Nature Code	Cause Code	Time Allowance	Part Name	Part No.	Qty
144030PB	59A	120	1.6 hr	Radiator Fan Motor	1355A093	1
				Condenser Fan Motor	1355A131	1
				Cooling Fan Harness Kit	1355A467	1
				Flange Nut	MB605081	4

### Outlander Sport (Fan Motor 90W + 120W) (U.S. Models) – Replacement & Modification of Radiator Fan Motor & Cooling Fan Harness:

Labor Operation Code	Nature Code	Cause Code	Time Allowance	Part Name	Part No.	Qty
144030PC	59A	120	1.6 hr	Radiator Fan Motor	1355A093	1
				Cooling Fan Harness Kit	1355A468	1
				Flange Nut	MB605081	2

Warranty Coverage: 5/60 Basic Coverage