

How To Check Simply The Main Parts - Toshiba RAS-13SKV-E Service Manual

Indoor/outdoor unit, split type air conditioner

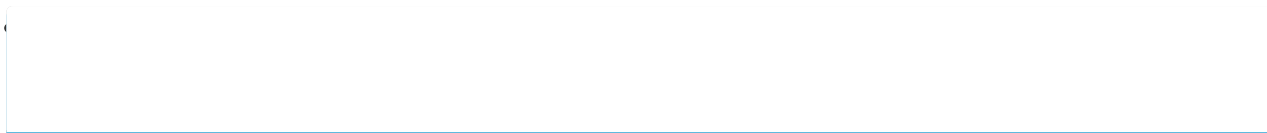
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Diagnosis/Process flowchart

A

Replace control

board assembly

Check

NG

compressor

winding

resistance.

OK

Replace

control board.

11-9. How to Check Simply the Main Parts

11-9-1. How to Check the P.C. Board (Indoor Unit)

Diagnosis/Process flowchart	Item	Contents
<pre> graph TD A((A)) --> C[/Check compressor winding resistance/] C -- OK --> D[Replace control board assembly.] C -- NG --> B((B)) B --> E[Replace control board assembly.] </pre>	<p>Check</p>	<p>Check winding resistance between phases of compressor, and resistance between outdoor frames by using a tester.</p> <ul style="list-style-type: none"> • Is not grounded. • Is not short-circuited between windings. • Winding is not opened.

(1) Operating precautions

- 1) When removing the front panel or the P.C. board, be sure to shut off the power supply breaker.
- 2) When removing the P.C. board, hold the edge of the P.C. board and do not apply force to the parts

3) When connecting or disconnecting the connectors on the P.C. board, hold the terminals at the lead wire.

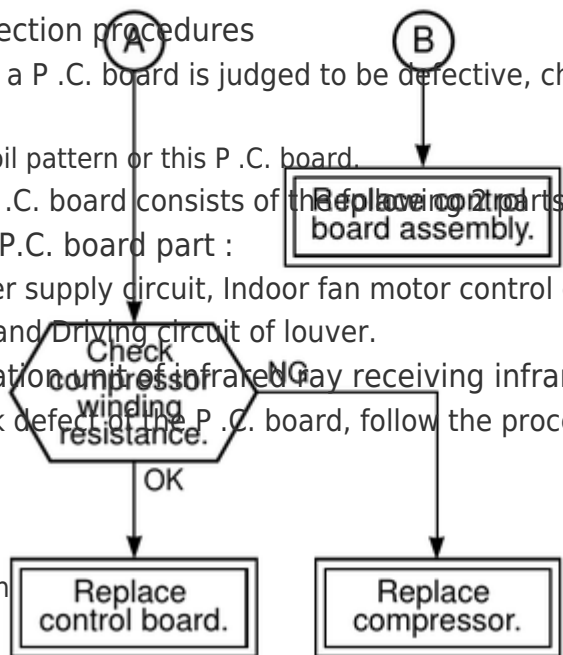
(2) Inspection procedures

1) When a P.C. board is judged to be defective, check for disconnection, burning, or discoloration of the copper foil pattern or this P.C. board.

2) The P.C. board consists of the following 2 parts

- a. Main P.C. board part :
DC power supply circuit, Indoor fan motor control circuit, CPU and peripheral circuits, buzzer, and Driving circuit of louver.

b. Indication of infrared ray receiving infrared ray receiving circuit LED not opened.
To check defect of the P.C. board, follow the procedure described below.



Diagnosis Process flowchart	Item	Contents
	Check	<p>Check winding resistance between phases of compressor, and resistance between outdoor frames by using a tester.</p> <ul style="list-style-type: none"> • Is not grounded. • Is not short-circuited between windings.
<p>Item Check B Operation Replace compressor. Contents Check winding resistance between phases of compressor, and resistance between outdoor frames by using a tester.</p>	Operation	<p>Remove connector CN300 of the outdoor fan motor, turn on the power supply breaker, and perform the operation. (Stops though activation is prompted.)</p> <p>Check operation within 2 minutes 20 seconds after activation stopped.</p>

11-9. How to Check Simply the Main Parts

11-9-1 How to Check the P.C. Board (Indoor Unit)

(1) Operating precautions

- 1) When removing the front panel or the P.C. board, be sure to shut off the power supply breaker, and perform the operation. (Stops though activation is prompted.)
- 2) When removing the P.C. board, hold the edge of the P.C. board and do not apply force to the parts
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(2) Inspection procedures

1) When a P.C. board is judged to be defective, check for disconnection, burning, or discoloration of the copper foil pattern or this P.C. board.

2) The P.C. board consists of the following 2 parts

- a. Main P.C. board part :

DC power supply circuit, Indoor fan motor control circuit, CPU and peripheral circuits, buzzer, and Driving circuit of louver

→ OK if 10MΩ or more

□

→ OK if 0.51Ω → 0.57Ω

□



(Check by a digital tester.)

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