



# Troubleshooting - Toshiba RAS-13SKV-E Service Manual

Split type indoor/outdoor unit



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Troubleshooting



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## Bookmarks





## 11-7. Troubleshooting

### 11-7-1. How to Check Whether the Air Purifier is Good or Not

Turn off the power breaker once, and turn on again after 10 seconds.

Does the OPERATION indicator flash?

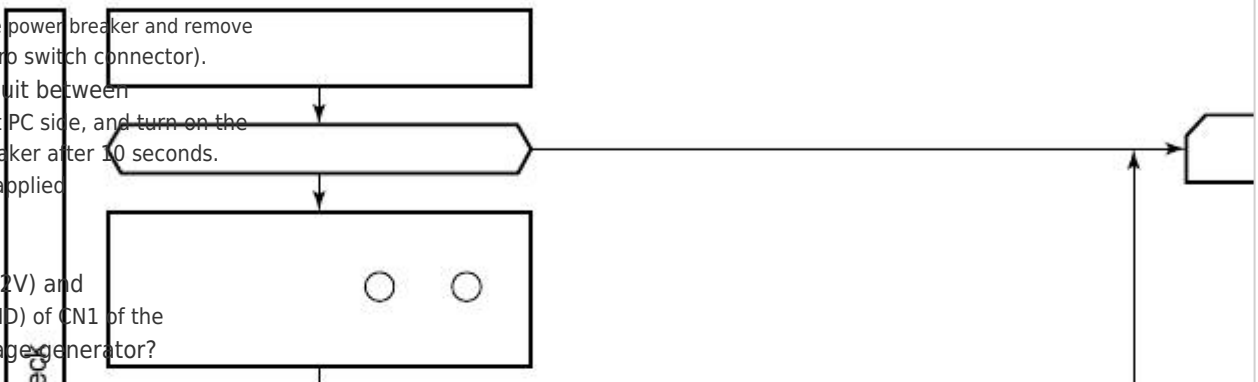
YES

Turn off the power breaker and remove CN41 (Micro switch connector).

Short-circuit between of CN41 at PC side, and turn on the power breaker after 10 seconds.

Is DC12V applied between

1 (Red/DC12V) and (Brown/GND) of CN1 of the high-voltage generator?



YES

Is there conduction of micro-switch connector under OFF status of the micro-switch (Front panel opened)?

NO

Is there conduction of micro-switch connector under ON status of the micro-switch (Front panel closed)?

YES

- 1) Check operation while short-circuiting CN41 of the main P.C. board.
- 2) Perform air purifying operation by the remote controller.

• In this time, check that the remote controller is in status which is shortened by time on the reactivation preventive timer and all display indicators go on for approx. 3 seconds when a signal is received.

If time on the reactivation preventive timer is not shortened,

( the high-voltage is not applied to electrode of the air purifier for approx. 1 hour.

• While the air purifier operates, check that the fan speed [AUTO] is not displayed. (Because the power ON/OFF is controlled on the program)

3) Be sure not to touch the electric dust collector, ionizer, or ionized wire unit with the human body.

Does the indoor fan rotate?

YES

Does the PURE indicator (Blue) or the FILTER indicator (Orange) go on?

YES

Does the PURE indicator go off within 2 seconds after it was ON, and does the FILTER indicator (Orange) go on?

YES

Are the electric dust collector and ionizer dried? (Electrode check)

YES

Refer to items, cleaning and check for the electric dust collector/ionizer/ionized wire units.

( When the ionized wire is disconnected or when dirt is not cleaned even cleaned, replace each unit.

NO

1 and 2 pin NO between YES

NO

Micro-switch malfunction

NO

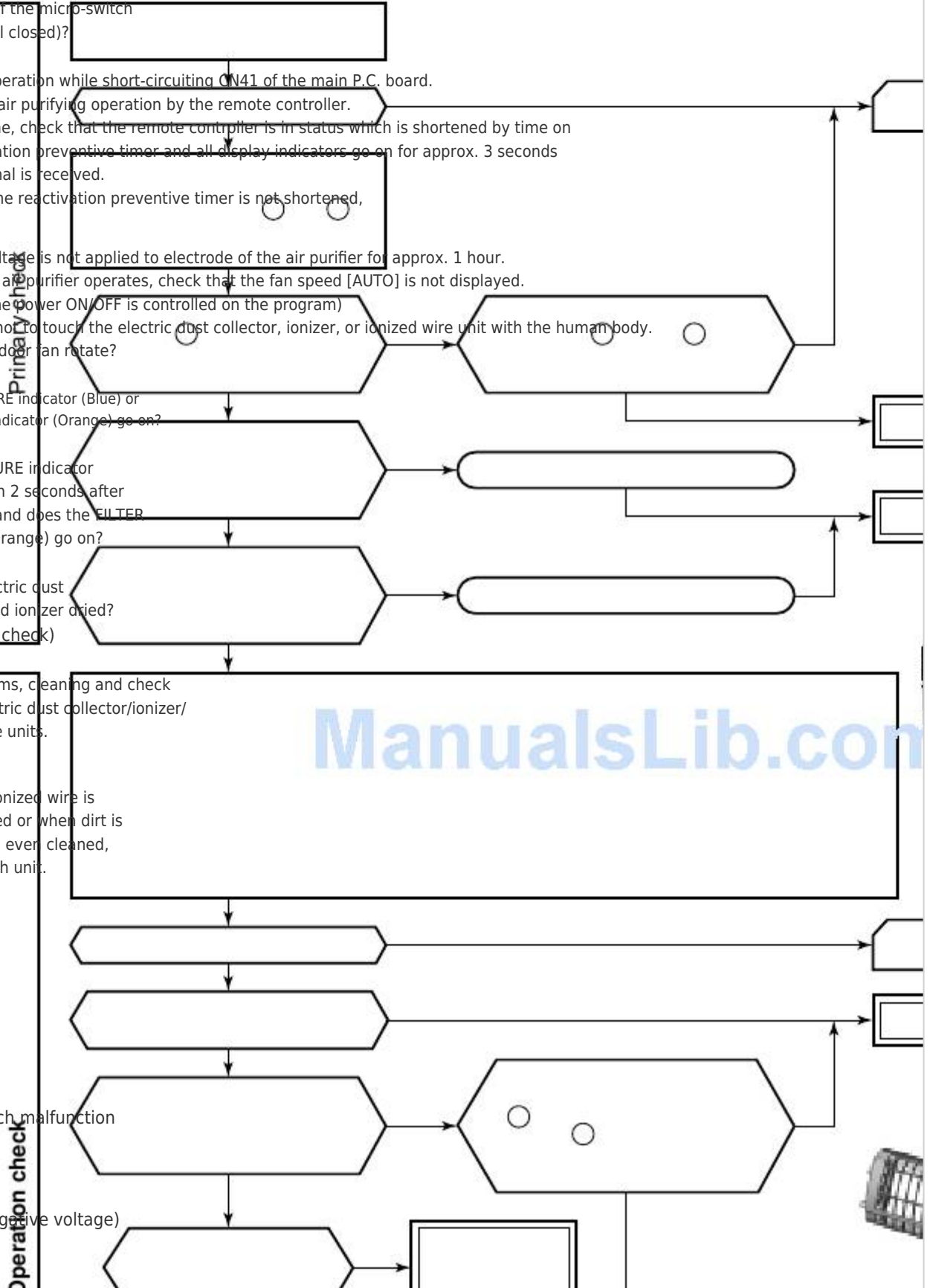
NO

NO

(Brown/Negative voltage)

4

and



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Dry the electric

NO

dust collector  
and ionizer.

Referring to the right figure, check the  
high-output voltage of the air filter unit.

(NOTE)

Use an exclusive high voltage tester;  
otherwise the tester may be broken.

Is output of the ionizer  
approx. 4.0 kV to 4.8 kV?

Is output of the collector

)

approx. 3.0 kV to 3.8 kV?

collector/ionizer/ionizer

YES

Is an abnormal sound  
(cracking noise) heard

Is DC12V applied

NO

1

(+) and

2

(-)

of CN42 of the main  
P.C. board?

YES

Micro-switch is stuck

)

Is DC-5V to DC-10V  
applied between

NO

2

(Brown/GND)

of CN42 of the main  
P.C. board?

YES

YES

NO

YES

Are the electric dust

NO

wire units dirty?

from the electrode?

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To item "Power supply is not turned on"

Replace the main P.C. board

Replace micro-switch.

• Conduction check of micro-switch

Push the switch

ON

→ ON

Release the switch

→ OFF

Tester

To item "Only indoor fan does not operate"

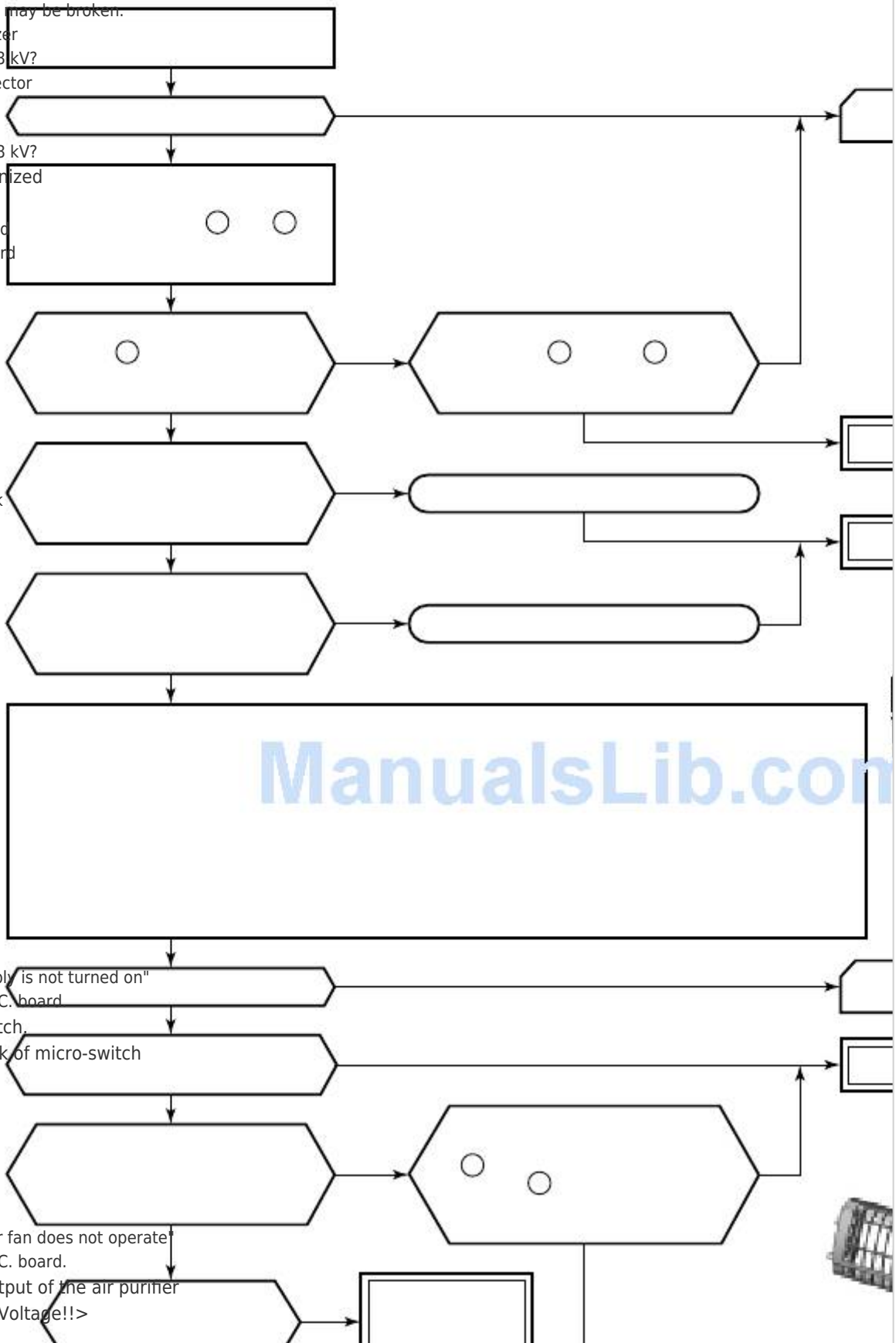
Replace the main P.C. board.

• How to check output of the air purifier

<Caution on High Voltage!!>

Primary check

Operation check



Be sure not to come  
to contact to the gray  
part or not to touch  
the ionized cables.  
High-voltage tester  
Replace the high-voltage generator.  
No trouble

**Revised-1**

Collector  
output  
GND  
Ionizer  
output



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[Indoor Unit](#)

[How to Diagnose the Trouble](#)

## Chapters

[Service Manual 2](#)

[Auto Restart Function/Remote Controller and Its Functions 32](#)

## Related Manuals for Toshiba RAS-13SKV-E

[Air Conditioner Toshiba RAS-13SKV-E Service Manual](#)

Indoor/outdoor unit, split type air conditioner (120 pages)

[Air Conditioner Toshiba RAS-10SAVP-E Service Manual](#)

(119 pages)

[Air Conditioner Toshiba RAS-B10SKVP-E Owner's Manual](#)

Split type; for general public use (31 pages)

[Air Conditioner Toshiba RAS-B10SKVP-E Service Manual](#)

Split type air conditioner (119 pages)

[Air Conditioner Toshiba RAS-10SKVP-ND Owner's Manual](#)

(61 pages)

[Air Conditioner Toshiba RAS-16SKVP-ND Owner's Manual](#)

(230 pages)

[Air Conditioner Toshiba RAS-10 SKV Series Owner's Manual](#)

Air conditioner (split type) (4 pages)

[Air Conditioner Toshiba RAS-M14GAV-E Installation Manual](#)

Split type (12 pages)

[Air Conditioner Toshiba RAS-13SKHP-E Service Manual](#)

Split wall type air conditioner (70 pages)

[Air Conditioner Toshiba RAS-13SKV2-E Service Manual](#)

Split type (111 pages)

[Air Conditioner Toshiba RAS-13SK-E Service Manual](#)

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Split type indoor unit outdoor unit ras-07, 10, 13 skhp series, ras-07, 10, 13 s2ah series (4 pages)

[Air Conditioner Toshiba RAS-10SKVP2-E Service Manual](#)

Split type indoor unit high wall, heat pump type outdoor unit heat pump type (111 pages)

[Air Conditioner Toshiba RAS-10S3KHS-EE Installation Manual](#)

(20 pages)

[Air Conditioner Toshiba RAS-24S3KHS-EE Owner's Manual](#)

(8 pages)

[Air Conditioner Toshiba RAS-10SKP Series Owner's Manual](#)

(8 pages)

## Related Content for Toshiba RAS-13SKV-E

[MMU-UP0091HP-E Troubleshooting](#)

Toshiba MMU-UP0091HP-E

[MMU-UP0031YHP-E Troubleshooting](#)

Toshiba MMU-UP0031YHP-E

[RAV-HM561MUTP-E\(TR\) Troubleshooting](#)

Toshiba RAV-HM561MUTP-E(TR)

[RAV-HM301MUTP-E Troubleshooting](#)

Toshiba RAV-HM301MUTP-E

[RAV-GM561ATP-TR1 Troubleshooting](#)

Toshiba RAV-GM561ATP-TR1

[MMD-UP0481HFP-E Troubleshooting](#)

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Toshiba RAV-GM1601AT8P-E

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