

How To Diagnose Trouble In Outdoor Unit - Toshiba RAS-B10SKVP-E Service Manual

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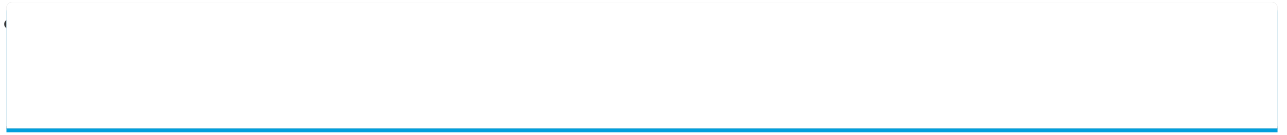
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Troubleshooting

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Bookmarks



11-8. How to Diagnose Trouble in Outdoor Unit

11-8-1. Summarized Inner Diagnosis of Inverter Assembly

Diagnosis/Process flowchart

Remove connector
of compressor.

Check 25A fuse
(Part No.F01).

OK

Check

terminal voltage
of electrolytic
capacitor.

OK

Does outdoor
fan rotate?

YES

NG

| | | | |
|--------------------------|--|--|--|
| | | | |
| <input type="checkbox"/> | | | |

Replace outdoor fan motor.

A

More user manuals on

Preparation

NG

Replace fuse.

Check

electrolytic

capacitor, diode

block (DB01),

etc.

NG

Check

electrolytic

capacitor, diode

(DB01),

etc.

NO

Remove connector CN300 of outdoor fan motor, and using a tester, check resistance value between every phases at motor side.

OK

B

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Table 11-8-1

Item

Contents

Turn "OFF" the power supply breaker, and remove 3P connector which connects inverter and compressor.

Check

- Check whether 25A fuse on the control board assembly is blown or not. (F01)

Check

Operation

Turn on the power breaker and operate the air conditioner in COOL mode by time shortening. Measure-

Measure terminal voltage of the electrolytic capacity.

500μF:400WV × 3

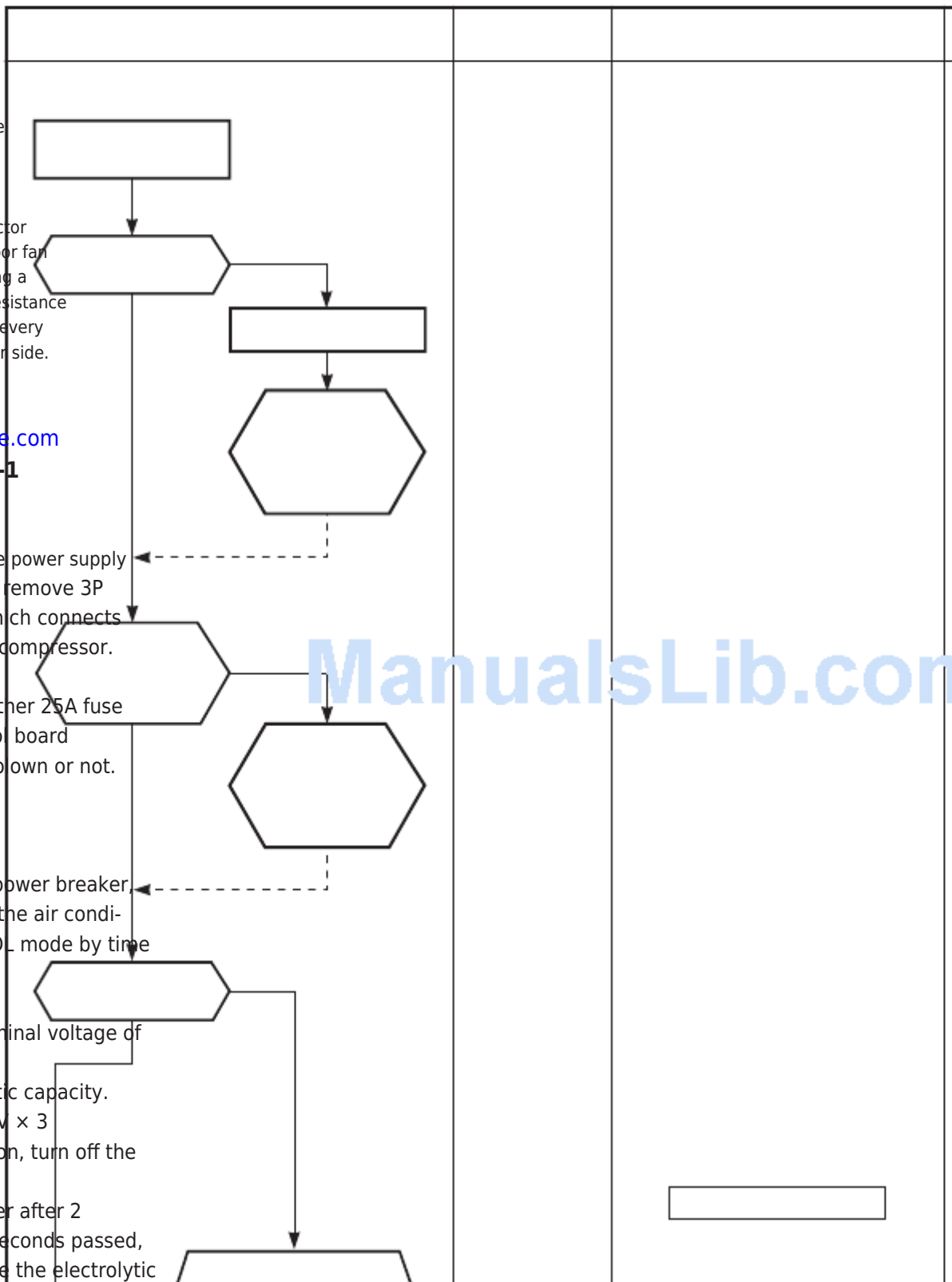
After operation, turn off the

Check

power breaker after 2

minutes 20 seconds passed,

and discharge the electrolytic



Stop
 capacitor by soldering iron.
 Check voltage between
 motor phases.

Check
 • Is not winding between

Measure-

, or
 ment
 or short-circuited?

• Is not frame grounded with

, or
 - 82 -

Summary

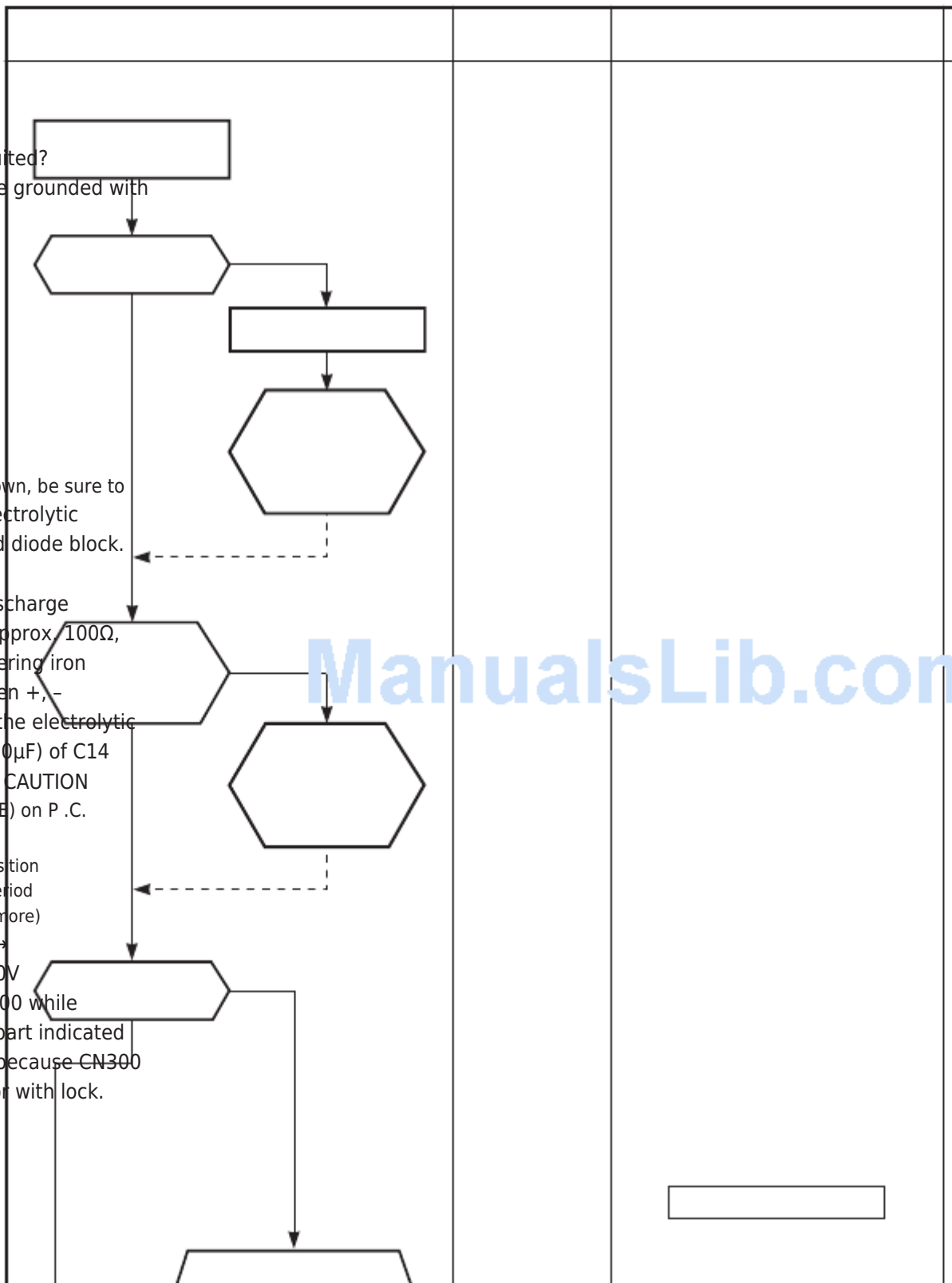
If fuse was blown, be sure to
 check the electrolytic
 capacitor and diode block.
 (DB01)

• Connect discharge
 resistance (approx. 100Ω,
 40W) or soldering iron
 (plug) between +, -
 terminals of the electrolytic
 capacitor (500μF) of C14
 (with printed CAUTION
 HIGH VOLTAGE) on P.C.
 board.

Discharging position
 (Discharging period
 10 seconds or more)

OK if 500μF →
 DC280 to 380V

Remove CN300 while
 pushing the part indicated
 by an arrow because CN300
 is a connector with lock.



-
opened
→ Resistance between
phases should be
approx. 55 to 77Ω
?
→ Should be 10MΩ or
more.
Plug of
soldering
iron

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