

Outdoor Fan Motor Control - Toshiba RAS-13SKV-E Service Manual

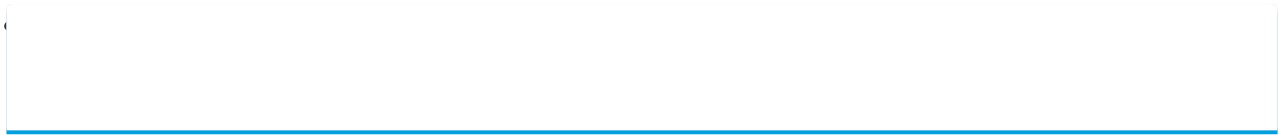
Split type indoor/outdoor unit

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Troubleshooting

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Bookmarks



Item

The blowing air volume at the outdoor unit side is controlled.

3. Outdoor fan

motor control

Receiving the operation command from the controller of indoor unit, the controller of outdoor unit controls fan speed.

* For the fan motor, a DC motor with non-stage variable speed system is used. However, it is limited to 8 stages for reasons of controlling.

Air conditioner ON
(Remote controller)

Indoor unit controller

1) Outdoor unit
operation command
(Outdoor fan control)



2) Fan speed ≥ 400
when the motor stopped.

Fan motor ON

3) Fan lock

4) Motor operates as shown in the table below.

In cooling operation

Compressor speed (rps)

To > 38°C

To > 28°C

To > 15°C

To

To > 5.5°C

To > 0°C

To < 0°C

To > 38°C

During

ECO mode

To < 38°C

When To is abnormal

Tap

10SAVR-E

f 0

0

f 1

200

f 2

300

f 3

370

f 4

440

f 5

440

f 6

500

f 7

550

f 8

600

Operation flow and applicable data, etc.

YES

fan motor continues.

NO

YES

Air conditioner

NO

~ 13.8

~ 31.7

MIN MAX MIN MAX MIN MAX

f 2

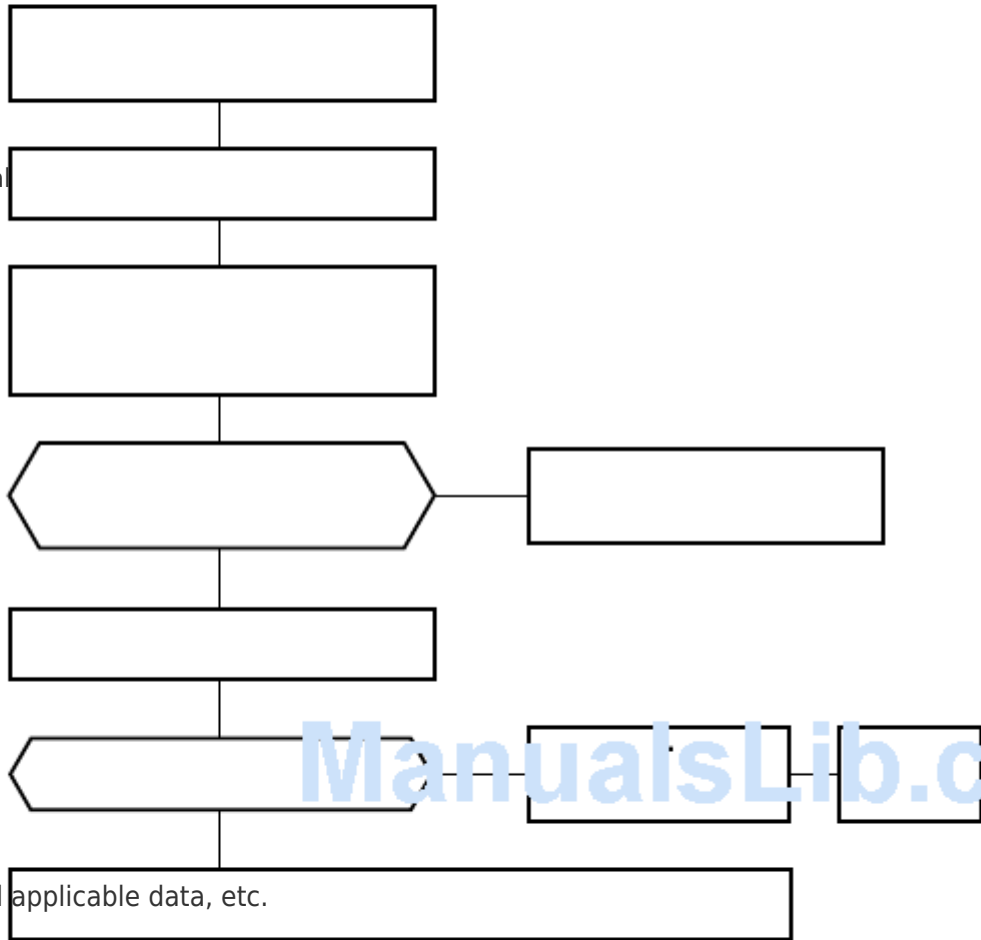
f 3

f C

f D

f 2

f 3

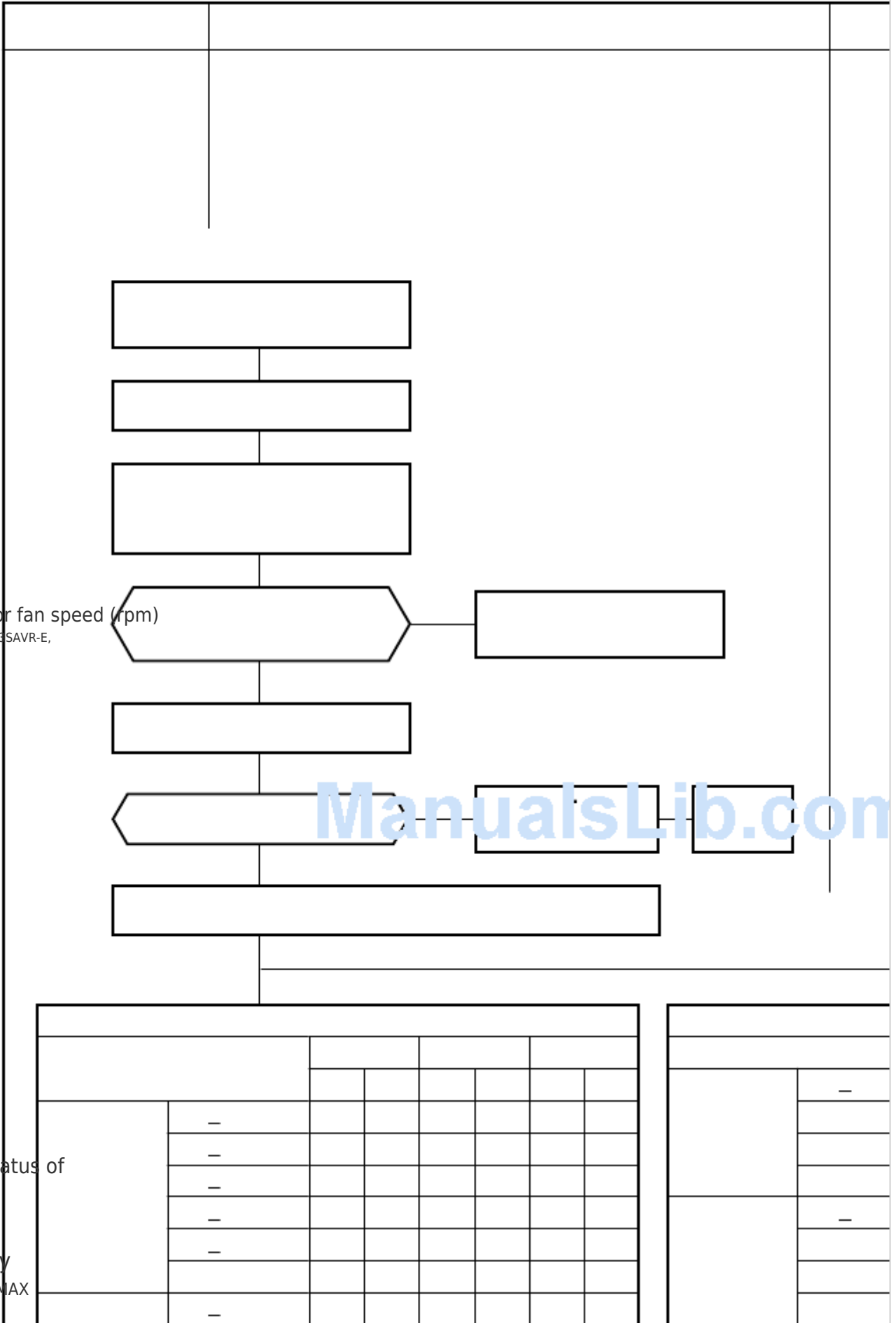


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| Air conditioner | | | | | | | |
|-----------------|---------|---------|--|--|--|--|--|
| | | | | | | | |
| NO | | | | | | | |
| ~ 13.8 | - | | | | | | |
| ~ 31.7 | - | | | | | | |
| MIN MAX | MIN MAX | MIN MAX | | | | | |
| f 2 | | | | | | | |
| f 3 | | | | | | | |
| f C | | | | | | | |
| f D | | | | | | | |
| f 2 | | | | | | | |
| f 3 | | | | | | | |

| | - |
|--|---|
| | |
| | |
| | |
| | - |
| | |
| | |

f A
f C
f 2
f 3
f 7
f A
f 1
f 3
f 2
f 5
f 1
f 1
f 1
f 1
f 2
f 0
f 0
f 0
f 1
f 2
f 3
f B
f C
f 2
f 3
f 2
f 3
f D
f F
f D
f F
Outdoor fan speed (rpm)
13SAV-E,13SAVR-E,
16SAVR-E
16SAV-E
0
0
200
200
300
300
370
370
440
440
440
440
500
500
550
550
600
600
OFF status of
Alarm
OFF
display
32.3 ~ MAX



800
900

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Toshiba RAS-13S3KV-E

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