Operation Description - Toshiba RAS-B10SKVP-E Service Manual

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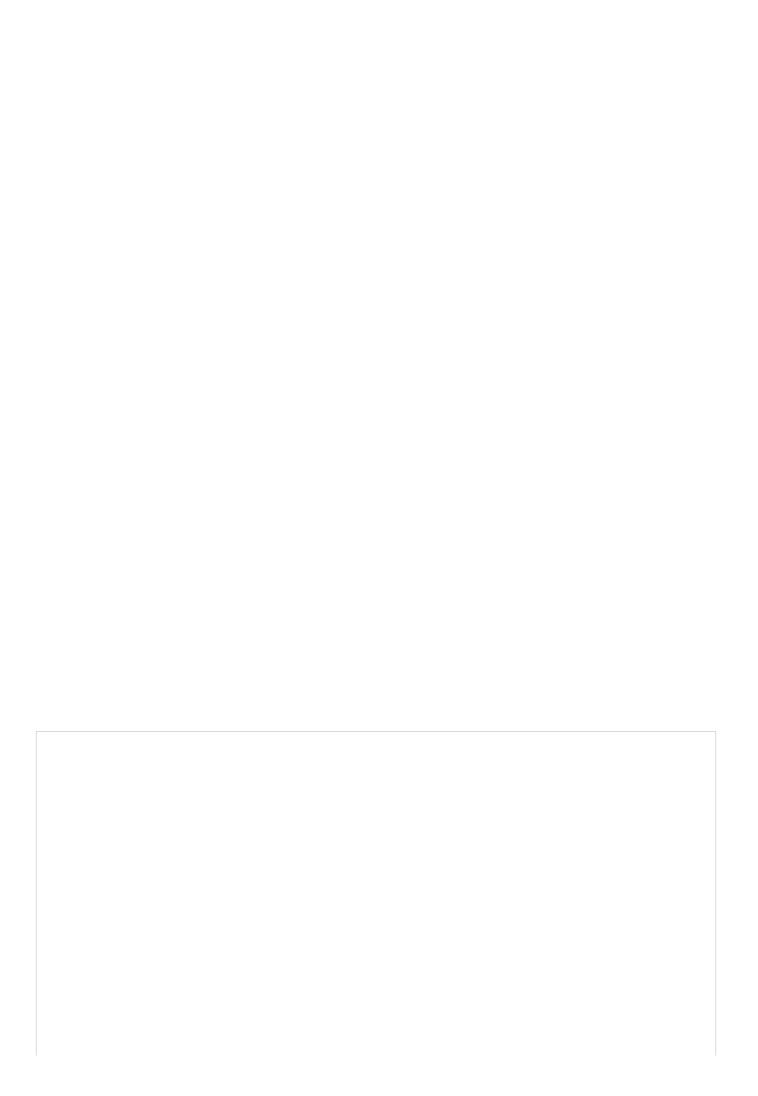
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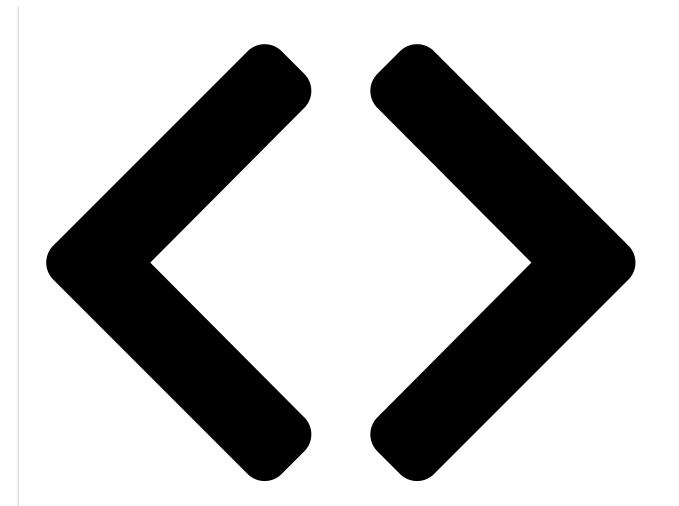
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9-1. Outline of Air Conditioner Control

This air conditioner is a capacity-variable type air conditioner, which uses DC motor for the indoor fan motor and the outdoor fan motor. And the capacity-proportional control compressor which can change the operation description motor speed in the range from 11 to 118 rps is

mounted. The DC motor drive circuit is mounted to the indoor unit. The compressor and the inverted to control fan motor are initial independent of a motor are indoor in the entire air conditioner is whichly use to Decrept the for the indoor fan indoor unit controlled in the outdoor fan motor. And the capacity-The indoor unit controlled in the range from 11 to 118 rps is based upon command. The DC motor drive circuit is mounted to the and transfers the operation command to the outdoor unit. The compressor and the inverter to control unit controlled motor are mounted to the outdoor unit. The outdoor unit.

- Compressor operation control
- Operation control of outdoor fan motor
- P.M.V. control
- · 4-way valve control
- Detection of inverter in release operation
- Over-current detection to IGBT module (Comp
- · Compressor and outdo

mand from the indoor unit side, and controls the outdoor fan and the pulse motor valve. (P.M.V)

Besides, detecting revolution position of the compres-

sor motor, the outdoor unit controller controls speed of

the compressor motor by controlling output voltage of the inverter and switching timing of the supply power OPERATION DESCRIPTION

(current transfer timing) so that motors drive according

to the opera of co Qualline of Air Conditioner Control

And then, the histoprocondition broken transfers reached type air the operating condition multiple following the reached control the indebrand charout door fan motor. And the capacity-As the compressor adopts four pollegistry which can change the DC motor, the frequency of the supply power 11 to 118 rps is mounted. The DC motor drive circuit is mounted to the from inverter to compressor is two-times cycles indoor unit. The compressor and the inverter to control of the actual number of revolution to the outdoor unit.

- 1. Role of indoor unit controller is mainly controlled by the The indoor unit controller operation
- commands from the semestrate controller and less the indoor fan motor the followings besedians on command sent from the remote controller,
- Judgment of subticansiferent peratible and to the outdoor heat exchangen by cost to the indoor temp. sensor.

(TA sensor) The outdoor unit controller receives operation com-

- Judgment omne fittern index indexidenteriderand controls the by using heat មេរី នៃមានមានមាន ប្រាស់ អ្នក ប្រាស់ អនុសាស់ អ្នក ប្រាស់ អាច ប្រស់ អាច ប្រាស់ អាច ប្រាស់
- Judgment of inlet indoor heat exchanger temperathe controls speed of the compressor motor by controlling output voltage of ture by using heat exchanger sensor. To sensor, the supply power (Super heat controlled and switching timing of the supply power (Super heat controlled and switching) so that motors drive according.
- Louver motorise referation command.
- Indoor fan Amddhepethieooutolowolunit controller transfers reversely
- LED (Light the image) talks in few mation of the outdoor unit to
- Transferring of tole lating committee of the lating

signal) to the outdorner compressor adopts four-pole brushless

- Reception of incorrection the requiency of the supply power (Serial signal incording warted decompassion is two-times cycles outdoor unit and incorrection.
- Air purifier operation control

2. Role of outdoor unit controller

Receiving the operation committee straiges the operation signal) from the indoor unit controller, the outdoor unit performs its role.

More user manuals on

More user many exchanger by using the indoor temp. sensor.

(TA sensor)

9. OPERATION DESCRIPTION t exchanger temperature by using heat exchanger sensor (TC sensor)

ManualsBase.com(Prevent-freezing control and super heat control, etc.)

- Compressor openationment of inlet indoor heat exchanger temperacontrol ture by using heat exchanger sensor (TCJ sensor)
- Operation contro(Surper heat control etc.)

outdoor fan motorLouver motor control

P.M.V. control
 Indoor fan motor operation control

- Compressor operation control
- Operation control of outdoor fan motor
- P.M.V. control
- · 4-way valve control
- Detection of inverter in release operation
- Over-current detection to IGBT module (Comp
- Compressor and outdo serial signal is off (whe reach the board assem trouble of the signal sys
- Transferring of operatio signal) from outdoor un controller
- Detection of outdoor te revolution control
- Defrost control in heatir measurement by outdo control for 4-way valve

Contents of operation (Serial signal) from in outdoor unit controlled

The following three types the indoor unit controller.

- · Operation mode set on
- Compressor revolution by indoor temperature a (Correction along with a ture and correction of in temperature are added
- Temperature of indoor l
- For these signals ([Ope pressor revolution] indo perature), the outdoor is input current to the inversion followed operation with does not exceed the all

Contents of operation (Serial signal) from or to indoor unit control

The following signals are controller.

The current operation r

- 4-way valve control
- Detection of inverter input current and current release operation
- Over-current detection and prevention operation • Compressor and outdoor fan stop function when
- serial signal is off (when the serial signal does not reach the board assembly of buttoon control by trouble of the signair soutditioner is a capacity-variable type air
- Transferring political articles and the indoor fan signal) from outdoor that controller proportional controller which can change the controller motor speed in the range from 11 to 118 rps is
- Detection of outdear temperature and reception is mounted to the revolution control unit. The compressor and the inverter to control
- Defrost confaol imbeatiageoperatione di tembre outdoor unit. measurementhay अभारति व्यामेटन निवस्ति के शासी तापु controlled by the control for 4-wayowarverand coutdologican)
- 3. Contentshefioderationcommhandisignal indoor fan motor (Serial sighate ที่เหลือ เกิด เลือง เลือง

outdoor unit controller.

The following three types of signals are sent from the indoor unit controller.

The outdoor unit controller receives operation comthe indoor unit controller mand from the indoor unit side, and controls the operation mode set on the remote controller valve. (P.M.V)

• Compressor revolution command signal defined.

- Compressor เราะ เป็นสามารถ เกาะ compression of the compression of t by indoor temperature and settlemperaturentroller controls speed of (Correction alter covitor reason and proportion deling output voltage of temperature (are rander) to the operation command.

 Temperature of indoor heat exchanger

 Temperature of ind
- pressor revolution independent anglebanchen.

perature), the outdoor unit controller monitors the input current to the inverter, and performs the supply power followed operation within the range that current from inverter to compressor is two-times cycles does not exceed the actual number of revolution.

4. Contents of operation command signal

(Serial signal Richero butdoor umit controller

to indoor unit pentrobernit controller judges the operation The following signals are assist from the oceanote controller and assumes the following functions. controller.

- The current operation and suction air temperature of the indoor
- The current compressor reading to be using the indoor temp. sensor.
- Outdoor temperature
- Existence of projective circuit operation
 Existence of the contents of signals of the control of inlet indoor heat exchanger temperative of trouble occurrence. judges existence of trouble occurrence exchanger sensor (TCJ sensor) Contents of judgment are described below.)
- Whether distinction of the current operation status meets to the appration command signal control

- Compressor operation control
- Operation control of outdoor fan motor
- P.M.V. control
- 4-way valve control
- Detection of inverter in release operation
- Over-current detection to IGBT module (Comp
- Compressor and outdo serial signal is off (whe reach the board assem trouble of the signal sys
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3. Contents of operation (Serial signal) from in outdoor unit controlle

The following three types the indoor unit controller.

- Operation mode set on
- Compressor revolution by indoor temperature (Correction along with ture and correction of ir temperature are added
- Temperature of indoor l
- For these signals ([Ope pressor revolution] indo perature), the outdoor (input current to the inve followed operation with does not exceed the all

4. Contents of operation (Serial signal) from or to indoor unit control

The following signals are controller.

The current operation r

 Whether protective circuit operates When no signal is received from the outdoor unit controller, it is assumed as a trouble. 27 - 		
Ц	9. OPERATION D	DESCRIPTION
Operations followed to	-!! !!	- Compressor eneration
9-1. Outline of Air Conclude This air conditioner is a capacifudgment of Scholtioner, which uses DC most signal from indoor side the outdoor fan motor proportional control compressed motor speed in the range from	ty-variable type air otor for the indoor fan or. And the capacity- or which can change the	Compressor operation control Operation control of outdoor fan motor P.M.V. control 4-way valve control Detection of inventor in
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Quick Links: Service Manual Specifications Indoor Unit Clean Operation How to Diagnose the Trouble How to Replace the Main Parts

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Toshiba RAS-B22PKVSG-TR

RAS-25S4KVPG-ND Operation Description 1. Basic Operation

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RAS-10S3AV-E Operation Description

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