



Toshiba TCB-LD1UPE Installation & Operation Manual

Leak detector

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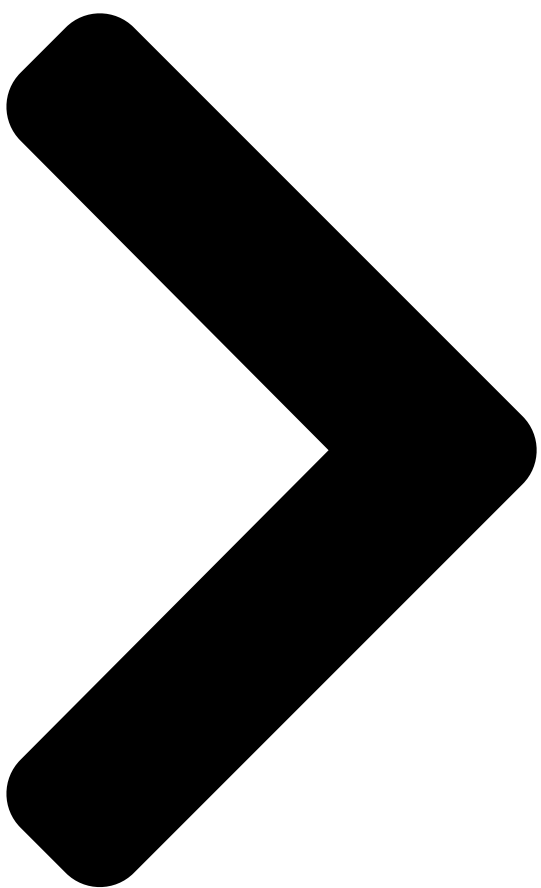
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Leak Detector

TOSHIBA

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(2 pages)

Summary of Contents for Toshiba TCB-LD1UPE

[Page 1](#) Installation & Operation Manual Leak Detector TCB-LD1UPE English...

[Page 2: Table Of Contents](#)

Read the installation procedures before proceeding with installation. In particular, please carefully read the "Safety Precaution" * This Leak Detector is only for being combined with TOSHIBA Air conditioner. After reading these instructions, be sure to keep them in a safe place.

[Page 3: Safety Precaution](#)

This Leak Detector must be installed by the sales dealer or installer. • Repairs must be carried out only by the method specified by Toshiba Carrier Corporation. • Only replace parts specified by Toshiba Carrier Corporation when replacing parts.

[Page 4](#) CAUTION • Gases and vapours other than the target refrigerant gas, may cause semiconductor sensors to react. Sensors exposed to silicon fumes may be permanently damaged. The accumulation of volatile organic compounds resulting from human occupation in a poorly ventilated room may cause inaccurate operation.

[Page 5](#) □ Precaution for operation WARNING • Do not block the slit for gas detecting. (It will be unable to detect refrigerant leaks and may result in a fire.) • Do not power off the air conditioner even if it is not used for a long time. The Leak Detector will not operate.

[Page 6: Specification](#)

Specification Dimension 86W x 120H x 30D mm Weight 0.11 kg Temperature/humidity range 0°C to 40°C / 20% to 80% (no condensation) *Indoor use only. Power source DC 13 V to 18 V (Supplied from indoor unit) Buzzer sound level 65dB (A) at 1 m □...

[Page 7: Accessory Parts](#)

Accessory parts Part name Image illust Quantity Screws M4 x 25 Wood screw M3.8 x 16 Plastic stud Wire terminal 1 (Inner diameter 6.5 mm) for AWG22 ~ AWG16 Wire terminal 2 (Inner

diameter 8.0 mm) for AWG20 ~ AWG14 M3 washer Connecting wire CD-ROM media manual...

[Page 8: Installation Precautions](#)

Installation precautions □ Installation locations Refrigerants are significantly heavier than air. Therefore in order for the sensor to operate as effective as possible the refrigerant detector must be positioned at a low level inside the room, where the indoor air conditioning unit is fitted. See diagram showing recommend installation guidelines.

[Page 9](#) Indoor Unit Indoor Unit Leak Detector $\leq 10 \text{ m}^* \leq 300 \text{ mm} \leq 300 \text{ mm}^*$ It must be placed within a horizontal distance of 10 meters and on the wall in the room where the indoor unit is installed. However, when it does not enter the field of view on a straight line from the Leak Detector, it is within 7 meters at the shortest horizontal distance without obstacles and installed on the wall in the room where the indoor unit is installed.

[Page 10](#) • Keep a space around the Leak Detector as detailed on the figure shown below. CASE Rear Cover 50 mm 50 mm or more or more Wall Floor Floor • Install so the Leak Detector is within 300 mm of the floor. This is stipulated in regulations. •...

[Page 11](#) □ Basic wiring diagram • Interconnecting cable wire are produced locally. • Using the specified wires, ensure to connect the wires and fix wires securely, so that the external tension to the wires does not affect the connecting part of the terminals. Incomplete connection or fixation may cause.

[Page 12](#) □ Basic wiring limitation Remote controller wiring Ext output wiring □ Type of wiring □ Type of wiring • Use cables of 0.5 to 2.0 mm (Min. 0.5 mm • Use cables of 0.75 to 2.0 mm (Min. 0.75 mm : 300 m or less : 100 m or less □...

[Page 13: Mounting](#)

Mounting Please use a connecting wire (accessory) and an interconnecting cable (procured locally) to connect to indoor unit terminal board cable. If crimping tools are not available, please use other reliable methods for connection. Do not only use the insulating tape to connect; otherwise it can be dangerous. Since the Leak Detector cable has no polarity that is OK if the indoor unit's terminal A and terminal B are inversely connected.

[Page 14](#) In case of mounting to wall box In case of mounting to wall box, cut the plastic stud in the accessory to a suitable length for filling the gap between the rear cover and the wall box. Then use the M4 screws in the accessory to fix the rear cover to the wall box through the plastic stud.

[Page 15](#) Insert communication cable of indoor unit to the connector CN41 on PCB of the Leak Detector, Confirm the terminal number of indoor unit and connect the Leak Detector cable correctly. (The Leak Detector may be damaged if connecting the power supply of indoor unit.) If connect the Leak Detector to external device, communication cable of those is inserted to the connector CN64 or CN65.

[Page 16: Self-Diagnostics Table](#)

Self-diagnostics table □ Self-diagnostics table The LEDs light as follows according to the status of the Leak Detector. Please contact the service man and inform the status of the Leak Detector. Then take appropriate measures for solution. * please keep the status of the Leak Detector and do not cancel it until service man take measures.

[Page 17: Set Up](#)

Set up □ Test run (Inspection mode) After installation is complete, use following procedure to confirm that the Leak Detector is operating properly. Start Powering up to the indoor unit Power is not being supplied. Operation LED lights up. Check the wiring with the indoor unit. (Blinking for a few seconds) Or the Leak Detector is abnormal.

[Page 18: Operation](#)

Operation □ Overview • Read this manual carefully for safe use. • Read this manual as well as operating manual supplied with indoor units and outdoor units. • Be sure to read the "Safety Precaution" before use. • Keep this manual with operating manual supplied with indoor units and outdoor units in a safe place.

[Page 19](#) CAUTION • This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

[Page 20](#) □ Procedure stopping buzzer The buzzer can be stopped by pressing the alarm lamp switch for at least 2 seconds. Alarm lamp □ Warning in Operations WARNING • When a gas alarm occurs, immediately ventilate the area and evacuate from the room. Also contact the manager of the facility and the person responsible for servicing.

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