PORTABLE AIR CONDITIONER

MODEL: TID-1800

INSTRUCTION MANUAL

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We appreciate your purchase of the TID-1800.

This manual should be read thoroughly before operation and kept for future reference. Thorough understanding of the instructions will contribute to efficient, troublefree operation.
THE TID-1800 SUMMARY

The idea behind the TID-1800 is to provide a localized supply of cool and refreshing air.

The TID-1800 will greatly enhance your personal comfort whether at a work station or even in your favorite chair.

Four (4) casters enable you to move the TID-1800 easily from room to room. It cools and dries the air at the same time so that you can stay comfortable even when it’s humid or rainy outside.

Conventional air conditioners use large quantities of energy to cool an entire room, including walls and furniture. The TID-1800 creates a zone of cool and dry air only where it is needed. It does not waste energy cooling the surroundings.

High efficiency Rotary Compressor runs smoothly on less power than conventional compressors giving you lower energy consumption and quieter operation.

It’s easy to operate. Once you set the desired function, all functions will be memorized in the unit. The built-in timer allows from 1/2 to 6 hours operation, after which the TID-1800 is automatically turned off. This is especially convenient at bedtime.

Venting is not required. However, if the TID-1800 is to be used exclusively in one space, the cooling efficiency will be enhanced by using the venting kit accessory.

OPERATIONAL FEATURES

1. **COOLING OPERATION:**
   Normally, cool air is directed out the front louvers by the circulation fan which has three (3) stages of fan speed.

2. **AUTOMATIC OPERATION:**
   Once the desired function has been set, it is memorized as long as it remains connected to the wall outlet. In the event of a power failure, the desired function must be re-entered when power is restored.

3. **TIMER OPERATION:**
   The timer will shut off unit after the designated period of time (1/2 hr., 1, 2, 3, 4, or 6 hours).

4. **“INT.” OPERATION (INTERMITTENT OPERATION):**
   If you set circulation fan speed to “INT”, the fan will be “ON” at low speed for approximately 8 seconds and “OFF” for approximately 2 seconds. This operation will continue to be repeated.
   You can keep cooling/dehumidifying the room more comfortably and efficiently by this operation after the room reaches to the desired cooling/dehumidifying level.

   “INT” OPERATION is usable in both “COOL” and “FAN” mode operations.

5. **AUTOMATIC OSCILLATING LOUVER:**
   The vertical louvers oscillate back and forth automatically 45° from right to left and distribute the air evenly. Or you can lock in a fixed position to direct the output in a constant direction.

6. **AUTOMATIC SHUT-OFF MECHANISM WHEN DRAIN TANK IS FULL:**
   When the drain tank is full, unit will be automatically shut off. It is always required to press power button twice to resume operation after the condensed water is removed from the tank.

7. **AIR FILTER:**
   Air filter cleans circulation air.
1. DESCRIPTION OF PARTS AND COMPONENTS

[FRONT]

- AIR INTAKE FOR CIRCULATION FAN
- AIR FILTER (Located behind the grill)
- CARRYING HANDLE
- OPERATION PANEL
- VERTICAL LOUVER
- AIR OUTLET
- HORIZONTAL LOUVER (Horizontal louvers may be directed up or down with a simple touch of the finger.)
- DRAIN TANK (See instructions for emptying drain tank or connecting drain hose.)
- CASTER

[REAR]

- EXHAUST OUTLET
- AIR INTAKE (CONDENSER)
- CORD GROMMET
- POWER PLUG
- POWER SUPPLY CORD
NAME AND FUNCTIONS OF OPERATION PANEL

**TIMER LAMP**
Displays remaining time before unit turns itself off in the timer operation.
- 6 .......... 4-6 hrs.
- 4 .......... 3-4 hrs.
- 3 .......... 2-3 hrs.
- 2 .......... 1-2 hrs.
- 1 .......... 1/2-1 hrs.
- 0.5 .......... 0-1/2 hr.

**SELECT BUTTON**
Use to switch to HI, LO, or INT. output. The function will be displayed by the proper select lamp.

**TID-1800**

**RUNNING TIME HOURS**
- 6
- 4
- 3
- 2
- 1
- 0.5

**MODE**

**POWER BUTTON**
Starts and stops all functions.

**AIR DEFLECTOR BUTTON**
Use to allow VERTICAL louvers to move back & forth or to lock in any single position.

**TIMER BUTTON**
Selects period of time you desire unit to remain in operation. The time will be displayed in the timer lamp.
NOTE: After the designated time has elapsed, the unit will automatically turn off.

**MODE BUTTON**
Selects cool or fan only.
2. SAFETY TIPS

CAUTION: READ INSTRUCTIONS CAREFULLY BEFORE OPERATION.

— The unit should be operated when the room temperature is between 60°F/15°C to 95°F/35°C.
If the room temperature is below 60°F/15°C, ice may form on the coils. If the room temperature is above 95°F/35°C, the compressor will automatically shut off to protect itself.

— ALWAYS, wait 3 min. to restart after turning unit off.

— Keep unit more than 20 in. (50 cm) away from any objects or wall.

— If the unit is operated in COOL mode in an area of very high moisture, the top plate and the rear plate may get covered with a mist. Wipe off any mist before it has a chance to get on the floor or rug.

— Remove drain water tank before moving unit.

— NEVER insert objects of any kind into the air intake or air outlet.

— DO NOT unplug if your hands are wet. An electrical shock may occur.

— DO NOT operate in a wet location.

— DO NOT operate in direct sunlight.

— ALWAYS plug into 115 volt/60Hz electric outlet. Use single phase outlet or 20 ampere circuit.

— Be sure plug fits receptacle securely.

— DO NOT run power cord under carpets, rugs, or floor mats of any kind.

— DO NOT attempt to shorten or alter power cord in any way.

— DO NOT turn on and off by inserting or removing the plug.

— DO NOT use an extension cord. use cord connected unit only.

— Keep children away from unit.

3. OPERATION

BEFORE OPERATION:

1. Make sure drain tank is properly positioned.

2. Check that the filter is in place and clean.
OPERATING STEPS:

1. PRESS THE "POWER" BUTTON TO "ON."
   
   Power lamp is lit this time and unit starts.

2. PRESS THE "MODE" BUTTON.
   
   Pressing the mode button to set your desired operation mode "COOL" or "FAN".
   
   The "FAN" mode provides only circulation of room air.

   **CAUTION** If returning to "COOL" mode within 3 min. of switching to "FAN", a protective circuit will delay "COOL" mode for an additional 3 min. Use the unit room temperature range between 60°F/15°C to 95°F/35°C except in "FAN" mode operation. The compressor will automatically shut off when room temperature is above or below this temperature range. The "COOL" mode lamp will flash below this range.

3. PRESS THE SELECT BUTTON.
   
   Press the select button to set the desired air flow rate.
   
   HI .......... Operation at a high air flow.
   LO .......... Operation at a low air flow.
   INT. ........ Intermittent operation is approx. 8 sec. on at low and 2 sec. off.

4. PRESS THE AIR DEFLECTOR
   
   Press the "AIR DEFLECTOR" button to start automatic louvers.
   
   The vertical louvers will oscillate back and forth automatically 45° left to right. The louvers will be stopped by pressing the button again.

   **CAUTION:** DO NOT move the vertical louvers by hand. They may become damaged.

   The horizontal louvers may be set up and down manually in desired direction.

5. STOP OPERATION
   
   Press the "POWER" button and all lights will go out.
OFF TIMER

Press "TIMER" button and keep pressing "TIMER" button to set your desired off time.

In the "TIMER" operation, the TIMER LAMP will indicate the remaining time to turn off.

EXAMPLE: If you set at "3", the unit will shut off 3 hours later.

To cancel set time, press "TIMER" button until all lights are off. Unit will operate continuously.

<table>
<thead>
<tr>
<th>TIMER LAMP</th>
<th>0.5</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>REMAINING TIME</td>
<td>0 ~ 1/2 HR</td>
<td>1/2 ~ 1 HR</td>
<td>1 ~ 2 HR</td>
<td>2 ~ 3 HR</td>
<td>3 ~ 4 HR</td>
<td>4 ~ 6 HR</td>
</tr>
</tbody>
</table>

4. CONDENSED WATER DISPOSAL

USING DRAIN TANK (STANDARD EQUIPMENT)
When the drain tank is full, the unit stops and "POWER" lamp will flash.

1. Open the front cover of the unit and carefully remove the drain tank from the unit.

2. When replacing drain tank, always align an arrow on the tank. Otherwise condensed water may spill out of unit in operation.

3. Close the front cover.

4. Press the power button twice to resume operation.

NOTE: It is always required to press the power button twice to resume operation after moving the condensed water out of the tank.

CONTINUOUS DRAIN (WITHOUT USING DRAIN TANK)

1. Open the front cover and remove the drain tank.

2. Remove the drain plug from the right side cabinet.
3. Connect a city grade vinyl hose (try to use std. 10mm or 3/8” hose connections or adapter) to the end of the drain pipe inside the unit and fasten in place with hose clamps.

4. Pass the vinyl hose through the opening provided in the right side cabinet. Run the hose to a suitable drain location.

    CAUTION: To prevent leaks, ensure hose connections are tight.
    Care must be taken in the positioning of the hose. Do not have sharp bends or kinks in hose. Keep hose and outlet lower than drain fitting of unit.

5. CLEANING

   CLEANING THE AIR FILTER

   Clean the air filter once every two weeks. If filter is clogged with dust, it will reduce the unit’s performance.

   1. To remove the air intake grill, raise the knob located in the center of the grill and pull the grill off.

   2. Remove the holder and take out the air filter

   3. Remove the dust with a vacuum cleaner.

       — Filter has to be washed with mild soap or detergent in warm water (not over 95°F/35°C) and rinsed well. Dry thoroughly before replacing.

       — NEVER wipe with cloth — it will ruin the filter.

       — NEVER dry the filter near an open flame.

       — ALWAYS use the unit with the air filter.

   CLEANING THE SURFACES

   Clean the outside of unit with a soft damp cloth.

   NEVER use gasoline, solvents, chemical products or polish as they could damage the surfaces.

6. LONG-TERM STORAGE

   At the end of each season, or when you do not plan to use your TID-1800 for an extended period of time, the following procedures are recommended.

   1. Run the unit 5 or 6 hours with only the “FAN” operating in order to dry the inside.

   2. Empty the drain tank and unplug the unit.

   3. Clean the unit.

       Wipe off any dirt or dust on unit with a soft damp cloth, then wipe again using a soft dry cloth.

   4. Clean the air filter and replace it.

   5. Store unit.

       The original shipping carton is the best place to store your unit. If you do not have the original packing materials, cover unit with a large plastic bag and store in a cool dry place.
7. TROUBLESHOOTING

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit does not work</td>
<td>— Disconnected power plug</td>
<td>— Plug into outlet.</td>
</tr>
<tr>
<td></td>
<td>— Power failure</td>
<td>— Check circuit breaker or fuse.</td>
</tr>
<tr>
<td></td>
<td>— Power button is in OFF position</td>
<td>— Check the power button.</td>
</tr>
<tr>
<td></td>
<td>— Drain tank is full</td>
<td>— Empty drain tank and replace it.</td>
</tr>
<tr>
<td></td>
<td>(Power lamp is flashing)</td>
<td></td>
</tr>
<tr>
<td>Capacity diminished</td>
<td>— Mode button in the incorrect position.</td>
<td>— Check the mode button.</td>
</tr>
<tr>
<td></td>
<td>— Air filter is obstructed by dirt or dust.</td>
<td>— Clean the air filter.</td>
</tr>
<tr>
<td></td>
<td>— Obstruction in the discharge grill.</td>
<td>— Remove the obstruction.</td>
</tr>
</tbody>
</table>

8. SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>TID-1800</th>
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<tbody>
<tr>
<td>COOLING CAPACITY (MAX.)</td>
<td>7,200 BTU/H</td>
</tr>
<tr>
<td>DEHUMIDIFYING CAPACITY</td>
<td>2.55 pints/Hr.; (61 pints/Day) Max.</td>
</tr>
<tr>
<td>POWER SOURCE</td>
<td>Single Phase 115V (60Hz)</td>
</tr>
<tr>
<td>NORMAL OPERATING CURRENT</td>
<td>7.6 A</td>
</tr>
<tr>
<td>POWER CONSUMPTION</td>
<td>840W</td>
</tr>
<tr>
<td>AIR FLOW (MAX.)</td>
<td>171 CFM</td>
</tr>
<tr>
<td>DIMENSIONS (INCH)</td>
<td>11-1/2” (W) x 14-3/4” (D) x 34-5/8” (H), 290 mm x 375 mm x 880 mm</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>55 LBS., 25 kg</td>
</tr>
<tr>
<td>COMPRESSOR</td>
<td>ROTARY</td>
</tr>
<tr>
<td>REFRIGERANT</td>
<td>FREON R-22 (0.97 lbs.)</td>
</tr>
<tr>
<td>DRAIN WATER TANK CAPACITY</td>
<td>0.9 GAL., 3.5 litres</td>
</tr>
</tbody>
</table>

TRIAL CONDITIONS:

COOLING ................. ROOM TEMPERATURE 86°F/30°C
RELATIVE HUMIDITY 70%

DEHUMIDIFYING ........... ROOM TEMPERATURE 81°F/27°C
RELATIVE HUMIDITY 60%

NOTE:
Cooling air capacity will vary according to temperature and humidity of the room.
Do not turn the unit on its side or upside down.
9. VENTING KIT ACCESSORIES

USING EXHAUST DUCT SET

EXHAUST DUCT SET
(Part #20456651)
Max. 39-3/8 in.

ASSEMBLY & INSTALLATION:
1. Insert ends of Exhaust duct hose (flexible tube) into Air outlet nozzle and Exhaust duct “A” by twisting until it stops.

2. Fix the Exhaust duct “A” to the exhaust outlet on the rear of the unit. This is achieved by sliding the appropriate connector downwards over the exhaust outlet ensuring that the lugs on the outlet are engaged with the grooves on the connector.

3. Extend the Exhaust duct hose and close the window as far as possible trapping the Air outlet nozzle.

NOTE: Place the unit as close as possible to the window.

USING WINDOW PANEL KIT

NOTE: Window installations are possible by the use of the exhaust duct set and window panel kit.

Window panel kit (S) provides a weather-tight adapter for double-hung windows 24-3/4 in. (630 mm) to 36 in. (915 mm) wide, and for sliding windows 24-3/4 in. (630 mm) to 36 in. (915 mm) in height.

PLASTIC WINDOW PANEL KIT (S)
(Part #20456681)

<table>
<thead>
<tr>
<th>NO.</th>
<th>PART NAME</th>
<th>Q'TY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Plastic panel</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Exhaust duct cover (Part #20456652)</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Nozzle fitting (Part #20456653)</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Screws (4 x 16 mm) (Part #20456257)</td>
<td>4</td>
</tr>
</tbody>
</table>
ASSEMBLY & INSTALLATION OF PANEL

1. Fix Nozzle fitting ③ to Plastic panel ① by four (4) screws ④.

2. Hook Exhaust duct cover ② onto Nozzle fitting ③.

   NOTE: When using the panel for sliding windows, cut the both edges of Exhaust duct cover with scissors.

3. Install the panel in the window and adjust the length of the panel by lengthening or shortening.

4. Slide Air outlet nozzle into Nozzle fitting ③ until it locks.

5. Fix Exhaust duct “A” into the exhaust outlet on the rear of the unit.

   NOTE: The same procedure can be adapted for vertical installation in sliding windows.

OPTIONAL ACCESSORIES

PLASTIC WINDOW PANEL KIT (M) (Part #20456682) 34-1/4 ~ 55 in. (850 ~ 1400 mm)

PLASTIC WINDOW PANEL KIT (L) (Part #20456683) 47-1/4 ~ 75-1/2 in. (1180 ~ 1920 mm)
LIMITED WARRANTY

TOYOTOMI U.S.A., INC. ("TOYOTOMI") warrants each product and any parts thereof sold by it to be free from defects in materials or workmanship under normal use and service for TWELVE (12) MONTHS from the date of delivery to the original purchaser at retail subject to the following terms and conditions.

WHAT IS COVERED: Product or any parts thereof which are defective in workmanship.

WHAT IS NOT COVERED:
(1) This warranty does not extend to any defect due to the negligence of others: failure to install, operate or maintain unit in accordance with installation instructions (operating and maintenance instructions are furnished with each new unit): unreasonable use, accidents, alteration, use of unauthorized or non-standardized parts and accessories; electrical malfunctions, i.e., as resulting from large power surges, short circuit, etc; incorrect installation; or repair by anyone other than a service facility specified by TOYOTOMI.

WHO IS COVERED: The original purchaser at retail.

WHAT WILL WE DO: TOYOTOMI will either repair or replace, at its option, all defective parts free of charge that are covered by this limited warranty on a carry-in basis, to your nearest authorized dealer or distributor of TOYOTOMI.

WHAT YOU MUST DO FOR WARRANTY SERVICE: You must return the defective Product or part to any authorized dealer or distributor of TOYOTOMI with this LIMITED WARRANTY and a copy of your bill of sale or credit card charge receipt or other documents evidencing the date of the Product's delivery. If service is not available locally, please contact our CUSTOMER RELATIONS DEPARTMENT at:

TOYOTOMI U.S.A., INC.
Customer Relations Department
Tel: (203) 775-1909

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