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IMPORTANT SAFETY INSTRUCTIONS

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons by doing the following:

1. Read and understand all instructions.

2. Follow all warnings and instructions marked on the product.

3. Do not use this product near water. For example, near a bathtub, kitchen sink or laundry tub, in a wet basement, or near a swimming pool.

4. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.

5. Slots and openings in the cabinet and the back or bottom are provided for ventilation. To protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.

6. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.

7. To reduce the risk of electric shock, do not disassemble this product. Take it to a qualified serviceman when service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the product is subsequently used.

8. Avoid using a telephone during an electrical storm. There may be a remote risk of electric shock from lightning.

9. Do not use the telephone to report a gas leak in the vicinity of the leak.

Please keep this unit away from equipment that uses radio waves or microwaves such as a portable radio or a microwave oven. This type of equipment may cause improper operation.
CONNECTION TO THE TELEPHONE LINE

Connect the line cord to the bottom of the DTH-1-1 (BK) TEL and to PBX/KTS Phone Jack.

Note: Use the DTH-1-1(BK)TEL only behind a PBX or a KTS.

SPECIFICATIONS

DP dial
Make ratio: 39±1%
Pulse speed: 10±1pps

DTMF dial
Level (High group): 0 ~ -5.5dBm
(Low group): 0 ~ -7.5dBm
Signal duration: 80±10ms
Minimum pause: 80±10ms

Flash
Flash time: 630±20ms

DIAL MODE

Either "T (Tone/DTMF)" or "P (Pulse/DP)" mode is selected by the Dial Mode switch which is located on the bottom of the DTH-1-1 (BK) TEL.

Note: Confirm Telephone Network method or PBX/KTS method.

TEMPORARY SWITCH OVER OF THE DIALING MODE

After a connection has been set up to use PULSE dialing, switch over to TONE dialing can be made by pressing the * button. Certain services offered by some Public Telephone Exchanges or PBXs, e.g. control of a telephone answering system, simple data traffic, etc, can then be utilized by dialing additional digits. The telephone is automatically reset to PULSE dialing when the handset is cradled.
**TELEPHONE RINGER SET UP**

There are three different ringers available and three different volumes for each ringer. The ringer and volume levels can be set using the following operation.

1. Lift Handset.
2. Press MUTE Key.
3. Dial "#".
4. Select a number 0-9 from the table.
5. Press MUTE Key.
6. Hang up to finish.

<table>
<thead>
<tr>
<th>Dial</th>
<th>Ringer Type</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>Low</td>
</tr>
<tr>
<td>2</td>
<td>A</td>
<td>Mid</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>High</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>Low</td>
</tr>
<tr>
<td>5</td>
<td>B</td>
<td>Mid</td>
</tr>
<tr>
<td>6</td>
<td>B</td>
<td>High</td>
</tr>
<tr>
<td>7</td>
<td>C</td>
<td>Low</td>
</tr>
<tr>
<td>8</td>
<td>C</td>
<td>Mid</td>
</tr>
<tr>
<td>9</td>
<td>C</td>
<td>High</td>
</tr>
<tr>
<td>0</td>
<td>-</td>
<td>Off</td>
</tr>
</tbody>
</table>

Default: 6

*Note: If you disconnect the phone from the network, the ringing tone assignment will default to the factory setting within a few hours.*

**MAKING A CALL**

1. Lift Handset. The IN USE LED will illuminate.
2. Wait for the Dial Tone and then dial the telephone number.
3. Hang up to terminate the call.

*Note: A Trunk Access Code may be necessary before dialing an external telephone number if the DTH-1-1 (BK) TEL is connected to a PBX/KTS.*

**FLASH**

1. While on a call, press FLASH Key.

*Note: If the DTH-1-1 (BK) TEL is connected to a PBX/KTS, you can send the "Flash" command by pressing the FLASH Key. If the DTH-1-1 (BK) TEL is connected to the Telephone Network, you can "Disconnect and Recall" by pressing the FLASH Key.*

**VOLUME CONTROL**

The handset earpiece volume can be adjusted in 6 stepped increments during a call. Press ▲ to increase the volume (3 steps up), or ▼ to decrease the volume (2 steps down).
MEMORY

DTH-1-1 (BK) TEL has 4 One-Touch Speed Dial Memory Keys. Once a number has been stored in a Memory location, you only have to go off-hook and press one button to make the call.

Storing One-Touch Speed Dial Memory Keys.
1. Lift Handset and press MUTE (ignore anything you hear in the earpiece).
2. Select a location by pressing the corresponding Speed Dial key.
3. Enter the telephone number to be stored (up to 21 digits) using the number keys.
4. Press MUTE again and replace the handset. The number is now stored.

Note: Flash can be stored in memory dial, but will count as one of the total 21 digits allowed.

Dialing Using One-Touch Memory Keys.
1. Lift the handset and wait for a dial tone.
2. Dial the desired number by pressing the corresponding Memory Key.

Note: If you disconnect the phone from the network, One-Touch memories will be erased in a few hours.

MESSAGE WAITING INDICATOR

Many PBX systems have a feature called Message Waiting. DTH-1-1 (BK) TEL will show if a message was received in your absence by flashing the Message Waiting Indicator. This function operates differently depending on the PBX / KTS being used. Please contact the system administrator for more information.

HANDSET MIC MUTE

1. While on a call, press MUTE Key to mute.
2. Press MUTE Key again to resume conversation.
LAST NUMBER REDIAL

1. Lift Handset.
2. Press REDIAL Key to dial the last # dialed.

*Note: If you disconnect the phone from the network, redial memory will be erased in a few hours.*

WALL MOUNTING

The DTH-1-1 (BK) TEL is suitable for wall mounting. Check for hidden cables, water pipes, etc. before drilling holes. Before you commence, check that the intended mounting point is within reach of a Telephone Socket.

1. Use the template to mark the position of the two screws (not supplied) which will secure the DTH-1-1 (BK) TEL in position.
2. Drill the holes.
3. Fit the screws (not supplied) to the wall, leaving 3.3 mm sticking out (use wall anchors if necessary, not supplied).
4. Place the two holes on the base of the telephone over the installed screws, then slide into place.

*Note: When the DTH-1-1 (BK) TEL is wall mounted, the hanger hook (with serrated top) is located on the base. Rotate 180 degrees (so the lip protrudes) and replace.*

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WALL MOUNTING TEMPLATE

[Diagram showing the wall mounting template with a dimension of 82mm]
FCC Part 68 Registration

The equipment complies with Part 68 of the FCC Rules. A label which contains the FCC Registration Number and ringer equivalence number (Rn) for the equipment, country of origin, and model number among other information, is located on the bottom of the equipment. If requested this information should be provided to the telephone company.

The equipment uses the following USOC jacks: RJ11C.

KX-type telephone with message waiting and/or line status indicators may only be connected to host systems and not to the Network.

The REN is used to determine the quality of the device which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not in all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to the line, as determined by the total RENs, contact the telephone company to determine the maximum REN for the calling area.

If the equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. If advance notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operation, or procedures that could effect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

If trouble is experienced with this equipment, please contact your NEC Dealer for repair and/or warranty information. If the trouble is causing harm to the telephone network, the telephone company may request you to remove the equipment from the network until the problem is resolved.

NO REPAIRS CAN BE DONE BY THE CUSTOMER.

The equipment is hearing-aid compatible.

CAUTION: The act of monitoring or recording telephone conversations under certain circumstances may violate federal or state statutes. Consultation with your legal counsel prior to engaging in such practices would be advisable.
FCC Part 15

Complies with the limits for a Class B computing device pursuant to Subpart J of Part 15 of FCC Rules.

INDUSTRY CANADA (CS-03)

The Load Number of the equipment: N/A

"Notice: The Industry Canada label identifies certified equipment. The certification means that the equipment meets certain telecommunication network protective operational and safety requirements. Industry Canada does not guarantee the equipment will operate to the user's satisfaction."

"Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations."

"Repairs to certified equipment should be made by an authorized Maintenance facility designated by the supplier. Any repairs or installations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request that the user disconnect the equipment.

Users should ensure, for their own protection, that the electrical ground connections of the power utility, telephone lines, and internal metallic water pipe system, if present, are connected together. This protection may be particularly important in rural areas."

Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

SAFETY CONSIDERATIONS:

This equipment complies with Underwriters Laboratories Standard U.L. 60950 First Edition.