PhoneMax®

Installation Guide & User Manual
Model TEL 030

WILLIAMS SOUND ®
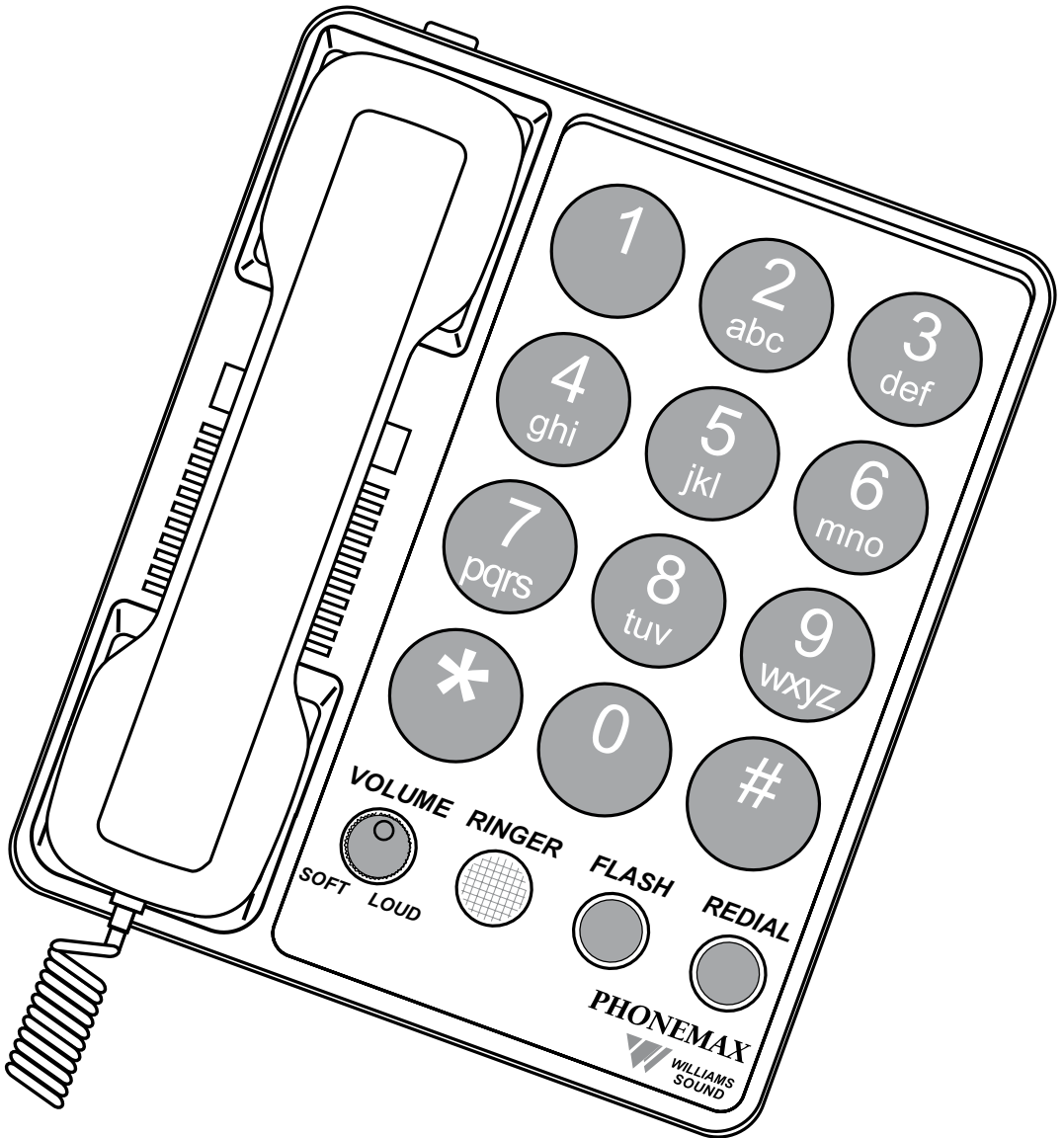
Important Safety Information

Statements in this manual preceded by the following words are of special significance.

WARNING! Means there is the possibility of personal injury to yourself or others.

Other information of particular importance has been placed in italic type like this.

WARNING! The PhoneMax is capable of amplifying sounds to a very loud volume. Instruct all potential users in its proper operation. Do not let children play with the Phonemax. When the volume control is set to SOFT, the Phonemax functions as a normal telephone.

WARNING! This telephone can produce very high (loud) sound levels. Always adjust the volume control to the minimum setting after using the phone and alert other users that hearing damage can potentially result from misuse.

WARNING! This product can be hazardous if immersed in water. To avoid the possibility of electrical shock, do not use it while in the bathtub or shower, or when you are wet. If you accidentally drop it into water, do not retrieve it until you have first unplugged the line cord from the modular wall jack. Do not plug the telephone back in until it has dried thoroughly.

Avoid using the telephone during electrical storms in your immediate area. Urgent calls should be brief. Even though your telephone company may be using protective measures to limit electrical surges from entering your home, absolute protection from lighting is impossible.

If you suspect a gas leak, report it immediately. But use a telephone away from the affected area. The telephone's electrical contacts could create a tiny spark. While unlikely, it is possible this spark could ignite heavy concentrations of gas.

RECYCLING INSTRUCTIONS
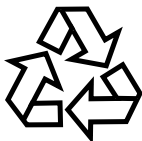
Help Williams Sound protect the environment! Please take the time to dispose of your equipment properly.
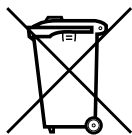
Please do NOT dispose of your Williams Sound equipment in the household trash. Please take the equipment to a electronics recycling center; OR return the product to the factory for proper disposal.

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PhoneMax Amplified Telephone, Model TEL 030

Introduction

Congratulations on the purchase of your PhoneMax° Amplified Telephone, Model TEL 030. This state-of-the-art Williams Sound product is designed and built with premium quality parts for your assurance of reliability.

The PhoneMax° is designed to improve the intelligibility of the sound signal by emphasizing higher frequency speech sounds. The PhoneMax functions as either an amplified telephone or as a normal telephone for users who don't need amplification.

We suggest you read this user manual carefully to become familiar with the Phonemax's features and their function. The manual explains how to install, use, and care for your new Phonemax.

Components

The following items are included with the PhoneMax:

- Handset
- Coiled handset cord
- Long wall cord
- Short wall cord

- Plastic base
- Wall mount bracket
- User Manual

Features & Functions

Volume Control	Increases sound volume.
Ring Indicator	Flashes when PhoneMax rings.
Flash Button	Used to access special services such as call waiting, conference calling, and PABX functions
Redial Button	Redials last number dialed.
Pulse/Tone Switch	Selects Pulse (rotary phone systems) or Touch-Tone Dialing.

Fig. 1: PhoneMax Features & Functions

Pulse/Tone Switch
Toggles between Pulse
and Touch-Tone dialing
modes

Big Buttons
Easy to see
and use

**Special
Handset
Speaker**
Provides superior
sound quality

**Ringer
Tone
Control**
Adjustable
to meet
your
individual
needs

**Ringer
Volume
Control**
Adjusts ringer
volume
(Hi, Lo, & Off)

**Volume
Control**
Boosts high
frequency
volume up
to 25 dB

VOLUME   RINGER   FLASH   REDIAL

SOFT   LOUD

PHONEMAX

WILLIAMS
SOUND

**Flashing Ring
Indicator**
Flashes red to
indicate ring

Flash Button
Interrupts line for
0.6 second for
call waiting or
three-way calling

Redial Button
Automatically
redials last number
called

|	
Ringer Volume	Adjusts Ringer volume level.
Ringer Tone Control	Adjusts Ringer tone.

Installation Steps

Step 1:   Make sure you have a telephone jack within 6 feet of the place you've chosen to install the PhoneMax. If you have an older 4-prong jack, you'll need a modular jack adapter. These adapters are available from electronic, phone, and other retail stores.

Step 2:   Place the Pulse/Tone Switch, located on the side of the phone, in either Tone or Pulse (Rotary Dial Pulse). *Make sure you choose the correct dialing mode. Tone dialing will not work if you have only dial pulse (rotary) service.*
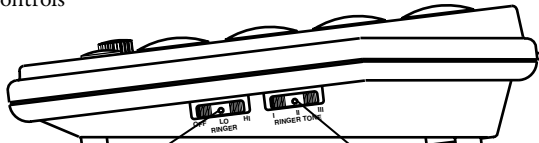

Fig. 2: Pulse/Tone Switch

Pulse / Tone Switch
Switches between touch-tone and rotary dial modes.
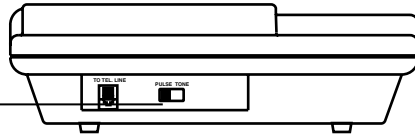
Step 3:   Set Ringer Volume and Tone Controls to desired level. *(see Fig. 3)*
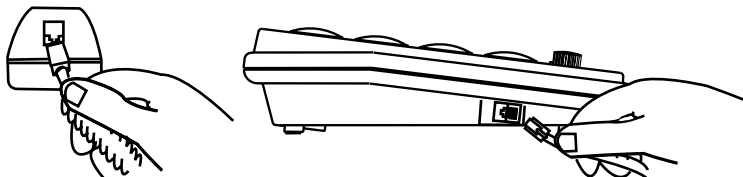

Fig. 3: Ringer Controls

Ringer Volume Control
Adjusts ringer volume (Hi, Lo, Off)

Ringer Tone Control
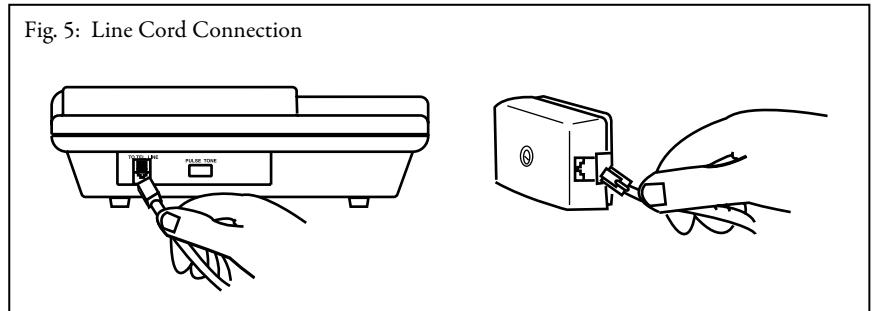Adjusts ringer pitch (I, II, III)

Step 4:   Plug the coiled handset cord into the handset. Plug the other end into the telephone base. *(see Fig. 4)*

Fig. 4: Handset Connection

Step 5:   Perform either Table/Desk installation or Wall installation as outlined on the following pages.

For Table/ Desk Installations

Fig. 5: Line Cord Connection

Step 1:   Plug the long line cord into the jack on the back of the telephone base. *(see Fig. 5)*

Step 2:   Plug the other end of the line cord into a modular baseboard jack. Make sure both ends snap into place firmly. *(see Fig. 5)*

Step 3:   Lift the handset and check for dial tone. If you don't hear a dial tone, see *In Case Of Difficulty*, *page 12*.

Note: To disconnect, squeeze the clip on the plug and pull it out from the jack.

For Wall Plate Installations

If you prefer, the PhoneMax can also be mounted on a studded wall phone plate. If you don't have a phone plate installed, talk to your phone company or local phone products store.

Step 1:   Clip the plastic wall mounting bracket (included) into bottom of the PhoneMax base unit. *(see Fig. 7)* Make sure the tabs snap in securely. This will make the base unit level with the wall.

Step 2:   Rotate the handset hanger found in the handset cradle to prevent the handset from falling. *(see Fig. 6)*

Step 3:   Plug the short line cord into the jack on the top of the telephone and thread the line through the channel to the cavity on the back of the base unit.

Fig. 6: Handset Hanger Adjustment

Handset Hanger
Lift up, rotate 180º, and release
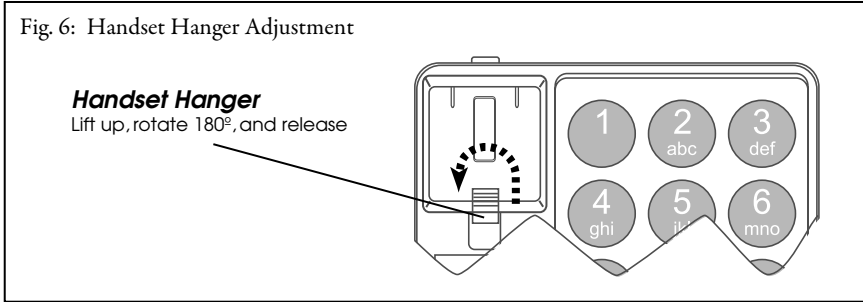
Step 4:   Hold the telephone next to the wall-phone jack and plug the line cord into the jack, leaving any slack in the base unit cavity. Then push the phone against the mounting studs so the studs are hooked into the upper and lower keyhole slots of the phone. Slide the phone down until it snaps into place. *(see Fig. 7)*

Step 5:   Check for a dial tone. If you can't hear a dial tone, see *In Case Of Difficulty, page 12.*

Fig. 7: Wall Installation

Short Wall Cord

Wall Mount Bracket

Studded Wall Phone Plate
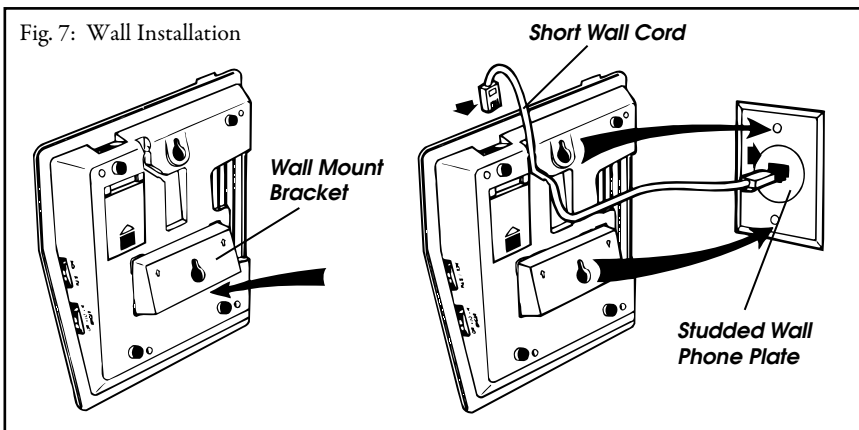
Note: To remove a wall-mounted telephone, slide the phone up and pull it slightly away from the wall. Disconnect the line cord by squeezing the clip on the modular plug and pulling it from the jack.

Bare Wall Installation

Even if you don't have a studded wall phone plate, you can still mount the PhoneMax on any wall surface within six feet of a standard modular jack. To mount the phone farther from the jack you'll need a longer line cord or a telephone extension cord.

Step 1:   Measure and mark the wall for mounting screws.
Mark two points 4.0 inches apart for upper and lower mounting screws. The lower mark should be 48–52 inches from the floor. Use a level to make sure the marks are aligned vertically.

Step 2:   Install the mounting screws (not included).
Use wood screws for stud mounting, anchor screws for hollow wall mounting. Drive the screws almost completely in, leaving a ⅛ (0.125) inch space between the wall surface and the bottom of the screw head (about the thickness of two stacked pennies).

Step 3:   Rotate the handset hanger to prevent the handset from falling. *(see Fig. 6)*

Step 4:   Mount the Phonemax.
Hang the telephone on the mounting screws and push down gently until it snaps into place

Step 5:   Connect the line cord to the jack on the top of the phone.
Plug the other end of the line cord into a modular wall jack. Make sure it snaps firmly into place.

Step 6:   Check for the dial tone.

If you can't hear a dial tone, see *In Case Of Difficulty, page 12*.

Note: To disconnect the telephone, squeeze the clip on the modular plug and pull it out of the jack.

PhoneMax® Operation

Using The Volume Control

Turn the volume control knob clockwise to increase volume, counter–clockwise to decrease volume.

Making A Call

Step 1: Lift the handset and check the Volume Control setting.

Step 2: When you hear a dial tone, dial the number and use as a regular phone. Adjust the volume control for best understanding of the remote party.

Answering A Call

Step 1: Check the Volume Control setting, lift the handset.

Step 2: Adjust the Volume control to a comfortable setting.

Using Flash And Redial Buttons

Flash Button
The Flash Button produces a .6 second disconnect, useful when picking up an incoming call if your line is equipped with Call Waiting, or when adding another party for three-way calling.

Redial Button
The Redial Button redials the last number dialed.

Using the PhoneMax With A Hearing Aid

The handset can be used directly with hearing aids equipped with a telecoil (T-coil). Move your hearing aid T-switch to the "T" position and hold the handset close to your hearing aid. The volume can be adjusted with the PhoneMax volume control.

WARNING!
The PhoneMax is capable of amplifying sounds to a very loud volume. Always set the VOLUME CONTROL to the SOFT setting before using the phone. Instruct all potential users in its proper operation. Do not let children play with the PhoneMax.

In Case Of Difficulty

Can answer calls but cannot make them
The pulse/tone switch is set in the wrong position. Change it to pulse mode.

No dial tone when you pick-up handset

There are a number of potential causes to this problem:

1. Cords on handset or phone are not plugged into jacks. Make sure connectors are plugged in securely.
2. The cord could be damaged. If so, replace the cord.
3. The wall jack could be improperly wired. Check the wall jack for proper wiring.
4. Your phone line could be out of order. Contact your local phone company.

Can make calls, but phone doesn't ring for incoming calls.

There are a number of potential causes to this problem:

1. The handset may not be placed properly on the base. Make sure it is resting properly on the base.
2. The Ringer Volume Control may be set to OFF. Adjust the switch to LO or HI. (The flashing ring indicator always indicates a call being received.)
3. Too many phones or phone devices may be connected to the same line. If so, remove other phones or devices from line.
4. Your older extension phone may cause the PhoneMax to cut off. If so, install Williams Sound's optional Equalizer Phone Accessory (TEL 007) in the line to the older phone. The Equalizer balances the amount of phone line current drawn by older phones using the same line as the Phonemax.

Warranty

Williams Sound Products are engineered and manufactured to give many years of trouble free service. Occasionally, latent defects will occur. If this happens, call the phone number below and request a Return Authorization (RA) number. After getting this authorization, return the product to us with shipping cost prepaid and advise us by letter of the observed difficulty.

During the first five years following the date of purchase, we will promptly repair or replace the product and return it at our expense. After five years from the date of purchase, we will service our products for a modest service charge. Please return the enclosed warranty card to register your date of purchase.

This warranty does not extend to intentional or accidental physical damage. Cords are warranted for 90 days. This warranty applies only to products returned to Williams Sound for service.

Unauthorized modifications or repairs of the product will void the warranty.

Williams Sound
Attn: Repair Dept.
10300 Valley View Road
Eden Prairie, MN 55344 USA

Phone:	**1-800-843-3544 / 1-952-943-2252**
Fax:	**1-952-943-2174**
TTY:	**1-952-943-9675**
Web:	**www.williamssound.com**
E–mail:	**info@williamssound.com**

SPECIFICATIONS

PhoneMax Amplified Telephone, Model TEL 030

Dimensions:	2.2" D, 8.9" H, 7.6" W (56mm D, 226mm H, 192mm W)
Color:	White with dark gray controls
Wide-band Acoustic Gain:	17 dB maximum
Max. HF Acoustic Gain:	25 dB
Audio Freq. Response:	300 Hz to 2800 Hz, ± 3 dB
Saturated Acoustic Output:	112 dB SSPL
Total Harmonic Distortion:	< 3% at 105 dB SPL output, 1000 Hz
Signal to Noise Ratio:	51 dB, NAB Weighted
Ringer Volume Control:	Hi, Lo, Off
Ringer Loudness:	80-85 dBA SPL at 1 meter (Hi position)
Ringer Pitch Control:	Adjustable, 3 positions (lo, med, hi)
Flasher:	High visibility red neon lamp
Connections:	2-wire central office connection, modular plug
Ringer Equiv. Number (REN):	FCC: REN 1.7B, Industry Canada: REN 1.3B
Warranty:	Five Years, Parts and Labor*
Approvals:	FCC, WEEE, RoHS, UL, C-UL, Industry Canada

* 90 days on cords and connectors

FCC & IC Registration Notice

Your new PhoneMax® product has been registered with the Federal Communications Commission (FCC) and Industry Canada (IC). This product complies with standards in Part 15 and 68 of the FCC and IC CS-03 Rules. The FCC and IC requires us to provide you with the following information:

1. This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this number must be provided to the telephone company.

2. An applicable certification jacks Universal Service Order Codes (USOC) for the equipment is provided (i.e., RJ11C) in the packaging with each piece of approved terminal equipment.

3. A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

4. The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not 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 a line, as determined by the total RENs, contact the local telephone company. [For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.]

5. If this equipment (TEL 030) causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't 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.

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

7. Should you experience trouble with this equipment, please contact Williams Sound Corp for repair or warranty information. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

8. Please follow instructions for repairing if any (e.g. battery replacement section); otherwise do not alternate or repair any parts of device except specified.

9. Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

10. **NOTICE:** If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this (TEL 030) does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

11. This product meets the applicable Industry Canada technical specifications. / Le présent materiel est conforme aux specifications techniques applicables d'Industrie Canada.

12. The Ringer Equivalence Number is an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed five. / L'indice d'équivalence de la sonnerie (IES) sert à indiquer le nombre maximal de terminaux qui peuvent être raccordés à une interface téléphonique. La terminaison d'une interface peut consister en une combinaison quelconque de dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas 5.

13. This telephone is compatible with inductively coupled (Telecoil) hearing aids.

Interference Information: Part 15 Of FCC Rules

Some telephone equipment generates and uses radio-frequency energy and, if not installed properly, may cause interference to radio and television reception.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: Your PhoneMax® has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

 - Reorient or relocate the receiving antenna.

 - Increase the separation between the equipment and receiver.

 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

 - Consult the dealer or an experienced radio TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numerique de la classe B est conforme a la norme NMB-003 du Canada.

MAN 096D