

Second Edition 1999

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## SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

**WARNING!** Please do not use your Mitsubishi wireless telephone if you may be distracted from another activity (such as driving a motor vehicle or walking across the street) and create a safety hazard to yourself and others. Use your wireless telephone responsibly. Be alert to your surroundings whenever you operate your wireless telephone.

For the safe and efficient operation of your phone, observe the following guidelines:

### EXPOSURE TO RADIO FREQUENCY SIGNALS

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.

In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for handheld wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

ANSI C95.1 (1992)\*

NCRP Report 86 (1986)\*

ICNIRP (1996)\*

\*American National Standards Institute; National Council on Radiation Protection and Measurements; International Commission on Non-Ionizing Radiation Protection

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C95.1).

The design of your phone complies with the FCC guidelines (and those standards).

## ANTENNA CARE

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

## PHONE OPERATION

**NORMAL POSITION:** Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.

**TIPS ON EFFICIENT OPERATION:** For your phone to operate most efficiently:

- Extend your antenna fully.
- Do not touch the antenna unnecessarily when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

## DRIVING

Check the laws and regulations on the use of wireless telephones in the areas where you drive. Always obey them. Also, if using your phone while driving, please:

- Give full attention to driving -- driving safely is your first responsibility;
- Use hands-free operation, if available;
- Pull off the road and park before making or answering a call if driving conditions so require.

## ELECTRONIC DEVICES

Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

### Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers:

- Should ALWAYS keep the phone more than six inches from their pacemaker when the phone is turned ON

- Should not carry the phone in a breast pocket
- Should use the ear opposite the pacemaker to minimize the potential for interference
- If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

### Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider (or call the customer service line to discuss alternatives).

### Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn your phone OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

### Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should

also consult the manufacturer of any equipment that has been added to your vehicle.

### Posted Facilities

Turn your phone OFF in any facility where posted notices so require.

### **AIRCRAFT**

FCC regulations prohibit using your phone while in the air.

Switch OFF your phone before boarding an aircraft.

### **BLASTING AREAS**

To avoid interfering with blasting operations, turn your phone OFF when in a “blasting area” or in areas posted: “Turn off two-way radio.” Obey all signs and instructions.

### **POTENTIALLY EXPLOSIVE ATMOSPHERES**

Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

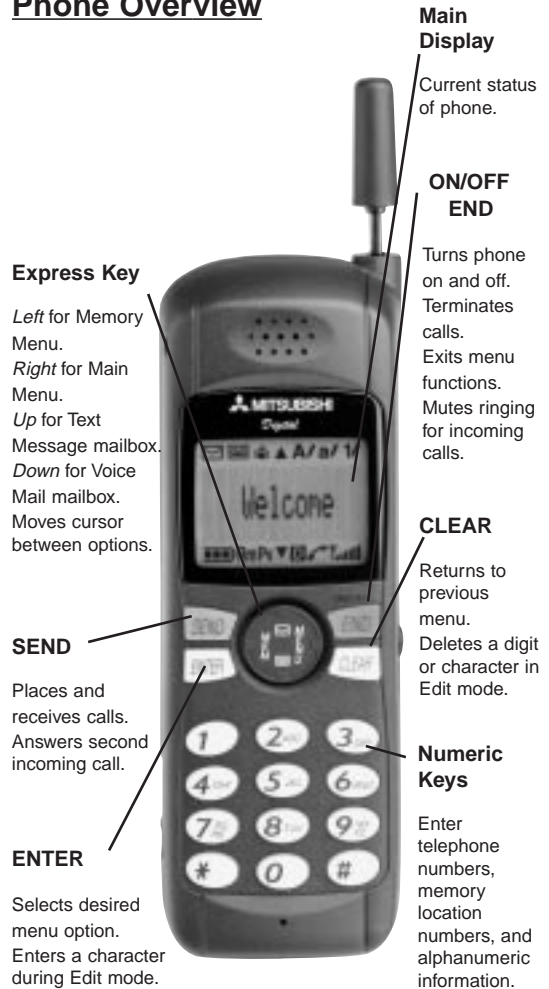
Areas with a potentially explosive atmosphere are often but not always clearly marked. They include fueling areas such as gasoline stations; below

deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

### For Vehicles Equipped with an Air Bag

An air bag inflates with great force. DO NOT place objects, including both installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

## Phone Overview



# 1. GETTING STARTED


## Charging the Battery

The battery must be fully charged before using your phone for the first time. If it is a new battery, 3 complete charge and discharge cycles must be performed to ensure peak operation.

- 1) Make sure the battery is properly installed on your phone.

*Refer to Attaching the Battery on page 14 for more information.*



- 2) Connect the charger to a standard 120 volt outlet. The Battery Level Indicator  flashes during charging.
- 3) Disconnect the charger when the *Battery Full* message displays.

## Prolonging the life of your battery

- Allow your battery to discharge fully once a week. A charged battery discharges on its own after one month of no use.
- To discharge the battery, leave the phone on until it shuts itself off.
- If you do not plan to use your phone for more than a month, remove the battery and store it in a cool, dry place.

## Charging Times

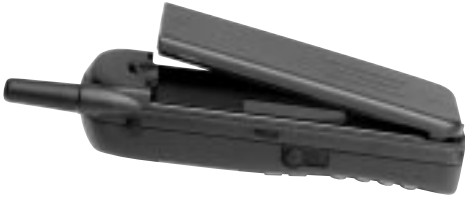
The following table shows the approximate battery recharging times using the AC Rapid Charging Adapter.

Battery	Charge
<b>880 mAh NiMH</b> Standard	120 min.
<b>880 mAh NiMH</b> Vibrating	120 min.
<b>1500 mAh NiMH</b> Extended	200 min.

- Battery charging suspends when a call is in progress.
- The NiMH battery performance varies with the condition and history of the battery.


## Attaching the Battery

- 1) Insert the bottom of the battery into the recess on the back of the phone.
- 2) Push inward until the locking catch snaps securely into place.



- To remove the battery, turn your phone off. Pull up the locking catch and remove the battery.

## Connecting the AC Rapid Charger to the Phone


When the battery needs to be recharged, 3 short tones sound. The *Low Battery* icon  and message flash on the display.


- 1) Connect the charger to the socket at the base of the phone.
- 2) Connect the charger to a standard 120 volt outlet. The battery begins charging when the charger is connected to the phone.



- If the phone is left on despite a low battery alarm, the phone automatically shuts itself off to protect the battery from over-discharging.

## Turning the Phone ON

Press  for 1 second to turn your phone on. When you turn the phone on, a tone sounds and the display backlighting comes on.

To turn your phone off, press and hold  for 1 second.

- If a *Locked* message appears when you turn your phone on, enter your preset 3-digit unlock code.

- If the *No Service* message appears on the display, then you cannot make or receive calls.  
*Refer to Problems You Can Solve on page 60 for more information about display messages.*

**Note:** Make sure the battery is fully charged before turning your phone on for the first time.

## Antenna Caution

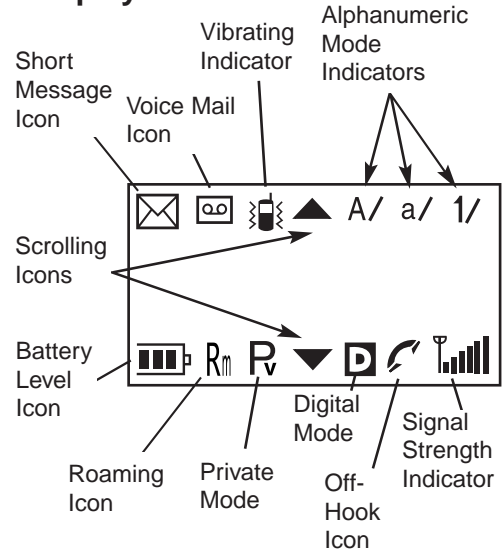
Your phone's antenna locks when it is extended fully.




To unlock the antenna, hold it near the base and push down until it releases. Then slide the antenna up or down.







## 2. DISPLAY AND KEYPAD

### Display Indicators



-  The Short Message Icon appears when there is a text message waiting.
-  The Voice Mail Icon appears when there is a voice mail message waiting.
-  The Vibrating Indicator appears when the vibrating feature is turned on in the phone's Ringer settings.
- A/ The Uppercase Indicator appears when the phone is in the upper case text entry mode.

- a/ The Lowercase Indicator appears when the phone is in the lower case text entry mode.
- 1/ The Numeric Indicator appears when the phone is in the numeric text entry mode.
-  The Battery Level Icon shows the power level of the battery in 3 levels.
-  This icon appears empty and flashes repeatedly when the battery is nearly depleted.
- R<sub>m</sub> When roaming outside of your home service area, either the Roaming icon or *Extended Area* message will be displayed, depending on how roaming works with your service provider.
- P The Private Mode Icon appears when you are using private network channels.
- D The Digital Mode Indicator appears when your phone is using a digital system.
-  The Off-Hook Icon appears when the line is in use.
-  The Signal Strength Indicator shows the connection strength in 6 levels.

## Indicator Light

The backlight illuminates the keypad and LCD display for 10 seconds each time you press a key.

## Key Functions



On the Express Key, each of the following allows you to perform numerous functions on your phone.

- ▲ Enters the Text Messages menu in Standby mode.  
Moves the cursor up 1 item in Menu mode.  
Increases the volume during a conversation.  
Moves the cursor up 1 line in Edit mode.
- ▼ Dials the Voice Mail Center in Standby mode.  
Moves the cursor down 1 item in Menu mode.  
Decreases the volume during a conversation.  
Moves the cursor down 1 line in Edit mode.
- ▶ Enters Menu mode from Standby and Conversation mode.  
Selects a menu item in Menu mode.  
Moves the cursor to the right in Edit mode.
- ◀ Enters the Memory menu in Standby and Conversation mode.  
Returns to the previous menu in Menu mode.  
Moves the cursor to the left in Edit mode.

**SEND**

Places and receives calls.  
Answers second incoming call.

**ON/OFF  
END**

Turns the phone on and off.  
Terminates calls and exits menu functions.

Mutes ringing when a call is being received.

**ENTER**

Makes a selection or moves to the next selection during Menu mode.

Enters a character during Edit mode.

**CLEAR**

Cancel a menu selection and returns to the previous menu in Menu mode.

Deletes a digit or character during Edit mode.

## 3. MAKING AND RECEIVING CALLS

### Making and Ending a Call

- 1) Press **ON/OFF  
END** for at least 1 second to turn your phone on.
  - If a *Locked* message appears on the display, enter your 3-digit unlock code. *Refer to Unlock Code on page 48 to view or change your unlock code.*
- 2) Enter the number you wish to dial.
- 3) Press **SEND**. The Talk Timer appears when your call connects.
- 4) Press **ON/OFF  
END** when your call is finished.

### Speed Dialing

Speed Dialing is an easy way to dial stored numbers. You can store up to 99 names and numbers for speed dial on your phone. *Refer to Storing a Number and Name in Memory on page 51 for more information about storing numbers.*

- 1) Enter the memory location for the number you wish to dial.
- 2) Press **SEND**. The phone automatically dials the number.
  - For memory addresses 0-9, you can press and hold the memory location number to dial the number.

## Last Number Redial

Your phone can store up to 10 of the most recently dialed numbers.

- 1) Press **SEND** to view the last dialed number.
- 2) Press UP and DOWN to scroll through the last 10 dialed numbers.
- 3) Press **SEND** to dial the number.

## Automatic Redial

Use Automatic Redial to redial a call when your phone is unable to access the cellular system. The call will be redialed every 3 seconds for a total of 10 times until the call connects.

- 1) Press **MENU** **4**<sub>OP</sub> **2**<sub>ABC</sub> **1** (Call Set - AutoRedial - ON).

This enables Automatic Redial. The phone retries the number.

- 2) Press **END** to return to Standby mode.
- If 10 attempts to connect a call are not successful, a fast busy tone sounds.

## One Touch Dialing

Use One Touch Dialing to call frequently dialed numbers, such as an answering machine or voice mail. To use this feature, you must first store the number in the phone's memory. *Refer to Storing a*

*Number and Name in Memory on page 51 for more information about storing numbers.*

### To perform One Touch Dialing:

- 1) Enter the memory location (0-9) for the number you wish to dial and hold for at least 1 second.
- **0** is reserved for operator calls.
  - An *Empty* message flashes if a number is not stored in the memory location.

## Answering a Call

Your phone accepts incoming calls when the battery is charged and *No Service* does not appear on the display. When there is an incoming call, a ringing tone sounds and the calling number or caller name if available flashes on the display.

- 1) Press any key except **END** to answer a call.
  - 2) Press **END** when the call is finished. The Talk Timer appears on the display until your call ends.
- When incoming calls are left unanswered, the ringing volume gradually increases until you answer the call.
  - To mute the Ringing Tone for an incoming call, press **END**. You can answer calls when the ringer is muted.

## Making an Emergency Call

Your phone can store 2 emergency numbers. An emergency 911 number is pre-programmed into the phone. Contact your network service provider for information about programming a second emergency number.

You can dial emergency numbers even when call restrictions are activated or if the phone is locked. (See Menu 7 on page 49. This is different than Key Lock which just locks the keypad.)

You cannot make emergency calls when Key Lock is turned on.

## Key Lock

Key Lock is used to prevent accidental key entry, such as when your phone is in a handbag or briefcase. You can receive calls when Key Lock is on, but you cannot make calls.

### To turn Key Lock on:

- 1) Turn your phone on.
- 2) Press **ENTER** for more than 1 second and *Key Locked* appears on the display.

### To turn Key Lock off:

- 1) Press **MENU** and **ENTER**.
- Key Lock automatically turns off when there is an incoming call and re-activates when the call ends.

## Add 1 (for long distance) Before Dialing

This feature is useful if you need to add 1 to the number in a memory location in order to make a long distance call.

- 1) Enter the number you wish to dial.
- 2) Press **MENU** **3DEF** (1+Dialing)
- 3) Press **SEND** to place the call.

## Network Features

The following features are supported by your phone, but may not be supported by your network service provider:

- Call Waiting
- Caller ID

Call your network service provider for detailed instructions on using these features.

### Call Waiting:

If this feature is available from the network, then your phone is capable of receiving a second call while another call is in progress.

- 1) When a second call is received during a conversation, *Call* flashes on your display or a short beep sounds from speaker.
- 2) To answer the second call or to switch between calls, press **SEND**.

- 3) If you do not want to answer the incoming call, do not press any key.

Use the **SEND** key as the Hook-Flash button for this feature. The Hook-Flash button is used to toggle between active phone calls.

### Calling Line Identification: (Caller ID)

Your phone has Caller ID. When a call with Caller ID is received, the name and number of the incoming call display (if available from network).

- *This function may not work on an analog network.*

## Sending Tone Signals

You can send Dual Tone Multi-Frequency (DTMF) tones to communicate with computerized systems, such as answering machines, voice mail or banking by phone. These tones can also be used for credit card calls and long distance calling cards.

A DTMF is a digit or a string of digits that produces tone signals—the sounds created when you press the keys on your phone's key pad.

You can store DTMF strings the same way you store phone numbers. *Refer to Storing a Number and Name in Memory on page 51 for more information about storing numbers.*

- DTMF tones are enabled only when the Silent Scratch Pad is off.

### To send a DTMF manually:

- 1) During a conversation, recall a DTMF string from either last dialed memory or memory location.
- 2) Press **MENU** **3DEF** (Send DTMF).
  - Make sure No Restrict or Local Only is selected in the Call Restriction menu. *Refer to the Security Menu on page 46 for more information about call restrictions.*

### To recall DTMF from memory:

- 1) Enter the number you wish to dial.
- 2) Press **MENU** **2ABC** (MemoryLink).
- 3) Enter the memory location for the DTMF string you want to send.
  - Repeat steps 2 and 3 to send additional DTMF tones.
  - **SHORTCUT:** Enter 'M' by pressing **\*M** three times within 1 second.
- 4) Press **SEND** to dial the number.
- 5) After the call connects, press **SEND** to transmit each DTMF string.

### To use DTMF as a pause function:

- 1) Enter the number you wish to dial.
- 2) Press **MENU** **1D** (Pause).

- 3) Enter the DTMF string you want to send.
  - Repeat steps 2 and 3 to send additional DTMF tones.
  - **SHORTCUT:** Enter 'P' by pressing **[\*]** twice within 1 second.
- 4) Press **[SEND]** to dial the number.
- 5) After the call connects, press **[SEND]** to transmit each DTMF string.

## Editing Number by Cursor

- 1) While desired telephone number is displayed, press **MENU [Edit]** (Edit). A flashing black cursor will appear.
- 2) Press **MENU** to move right until cursor is over the digit you want to change.
- 3) Press new digit.
- 4) Press **MEM** once to move left, then press **[CLEAR]** to erase the old digit.
  - Enter 'M' by pressing **[\*]** three times within 1 second.
  - Enter 'P' by pressing **[\*]** twice within 1 second.
  - Press **MENU** to move right, press **MEM** to move left.
- 5) Press **[ENTER]** to exit.

## 4. USEFUL INFORMATION WHILE TALKING

Different menu items appear on the display during conversation mode so that you can mute calls, select the Silent Scratch Pad, and send Dual Tone Multi-Frequency tones (see page 26).

### Changing the Volume While Talking

Press **UP** or **DOWN** to adjust the earpiece volume during a conversation.

#### To Mute Calls:

- 1) Press **MENU [Mute]** (Mute).

The phone's microphone is turned off and the call is put on hold.

  - You can also press and hold **MENU** during a conversation to mute the call.

#### To End Muting:

- Press any key except **[END]** to return to the conversation.

### Using the Phone as a Scratch Pad

The Silent Scratch Pad allows you to use the phone as a memo to store numbers during a conversation. When the Silent Scratch Pad is turned on, the tones made by pressing the number keys do not sound.

- 1) Press **MENU [Silent Pad]** (Silent Pad).
- 2) Enter a number you wish to store in memory.

After your call ends, the number appears on the display.

- 3) Press **MEM** (4<sup>OH</sup>) (Mem Store) to store the number.
- To turn the Scratch Pad off during a conversation, press **MENU** (2<sup>ABC</sup>) (Silent Pad). The Silent Scratch Pad will be turned off.

## Checking Time of Calls

The Talk Timer keeps track of the elapsed time of a conversation. You can also view the Operating, Total, and Last Talk Time in Standby mode.

- 1) Press **MENU** (2<sup>ABC</sup>) (Talk Time).
  - 2) Select one of the following options:
    - Press (1) for the Last Talk Time.
    - Press (2<sup>ABC</sup>) for the Total Talk Time.
    - Press (4<sup>OH</sup>) for the Total Operating Talk Time.
  - 3) Press (END) to return to Standby.
- *Refer to the TimerReset menu option on page 49 to reset the Talk Timer.*

## Viewing Last Dialed Number

- 1) Press **MEM** (1) (Last Dial).

The 10 last dialed numbers appear in order of most to least recent calls.
- 2) Scroll UP or DOWN to select a number.
- Press (SEND) to dial the number.
- 3) Press (CLEAR) or (END) to exit the menu.

## 5. VOICE AND TEXT MESSAGES

### Voice Messages

Your phone can receive voice messages when this service is available from your network service provider. When you receive a voice mail message, the Voice Mail Indicator appears on the display and a message received tone sounds.

- *Voice Mail box and Voice Mail Center phone number both need to be set up with your network service provider before using quick voice mail access.*
- *This function may not work on an analog network.*

#### To retrieve voice messages:

- 1) Press DOWN.
- 2) Press (SEND). The phone will initiate a call to the Voice Mail Center.

#### For quick voice message access:

- 1) Press and hold DOWN for 1 second. The phone automatically dials the Voice Mail Center.
- If you did not enter a Voice Mail Center number, then *No Voice Mail Center Number* flashes on the display.

#### To enter a Voice Mail Center number:

- 1) Press DOWN.
- 2) Press **MENU**.

- 3) Press **1** (Yes) to edit the number.
- 4) Enter the Voice Mail Center number and press **ENTER**.

## Text Messages

Your phone can receive up to 30 short text messages of up to 80 characters each when your network service provider supports this feature. Contact your network service provider for detailed information about short message service.

- *This function may not work on an analog network.*

### To access the text message mailbox:

- 1) Press UP.

Each message in the mailbox displays a message state, sender address, time/date stamp, and message heading, if available.

- There are 6 possible message indicators:

<b>Emergency</b>	shows unread Emergency Message.
<b>!!</b>	shows read Emergency Message.
<b>-Urgent-</b>	shows unread Urgent Message.
<b>!</b>	shows read Urgent Message.
<b>-Unread-</b>	shows unread Normal Message.
<b>(Blank)</b>	shows read Normal Message.

- If no messages are stored, a *No Messages!* message will display for 1 second.

### To view your messages:

- 1) Press UP.
- 2) Scroll to the previous or next message by using UP or DOWN.
- 3) Press RIGHT or **ENTER** to select a message.
- 4) Scroll through the message 1 line at a time by pressing UP or DOWN.
- 5) Press **MENU** or **ENTER** to enter the message into the In-Box sub-menu and choose 1 of the following options:

**Delete:** Press **1** to confirm and erase the message

**Call Back:** Press **2ABC** and **SEND** to call the party that sent you the message.

- 6) Press LEFT or **CLEAR** to exit.

## One Touch Call Back

If a displayed message contains a call back number or an embedded telephone number, the phone will go into the standby mode and will display the number.

- *This function may not work on an analog network.*

- 1) Hold **SEND** for 1 second to dial the call back number.
- If multiple telephone numbers are provided or if no number is provided within the message, One Touch Call Back is not available.

## 6. THE MENU SYSTEM

The Menu System is where all of the feature and function settings for your phone are stored. Use the menu information in this section to customize your phone settings.

### Changing Settings

Follow these guidelines to change the settings on your phone:

- 1) Press **MENU** to enter the main menu.
  - 2) Press UP and DOWN to scroll through the options.
  - 3) Press **ENTER** to select a menu option.
  - 4) Press **CLEAR** at any time to go back to the previous menu.
- You can also select menu options by pressing the number key that corresponds to the option.

### Menu Overview

You can access all of the feature and function settings for your phone through the menu system.

- Settings are preserved when the phone is turned off.
- If you do not specify your phone's settings, then your network service provider's default settings will be used.

- Since the display can only show 4 menu items at a time, you will see an arrow pointing down under the last menu option if there are more than 4 menu options in the menu. Press DOWN at the fourth menu option to see the additional menu options.
- Press UP at the fifth menu option to go back to the first 4 menu options.
- You can always enter a menu option directly by pressing the number that appears to the left of the menu option.

The following list of menu options describes each feature's function and possible settings.

## RINGER SETTINGS



### MENU 1


The following menu options allow you to adjust the tone and volume for incoming calls and messages.

- Tones sound while adjusting volume and tone levels.
- To mute the Ringer or Message tones, select volume level OFF.
- The Vibrator option only displays when the vibrating battery is installed.

#### 1 Ring Vol. Default )))

Selects the ringing volume for incoming calls. There are 7 possible settings.




- 1) Press **MENU**   (Ringer Set - Ring Vol.).

- 2) Press UP or DOWN to change the setting.
- 3) Press  to select the setting.

#### 2 Ring Tone

#### Default Tone 1




Selects type of ringing tone for incoming calls. There are 8 possible settings.

- 1) Press **MENU**   (Ringer Set - Ring Tone).
- 2) Press UP or DOWN to change the setting.
- 3) Press  to select the setting.

#### 3 Msg Vol.

#### Default )))




Selects the message tone volume for incoming messages. There are 7 possible settings.

- 1) Press **MENU**   (Ringer Set - Msg Vol.).
- 2) Press UP or DOWN to change the setting.
- 3) Press  to select the setting.

#### 4 Msg Tone

#### Default Tone 1




Selects the type of ringing tone for incoming messages. There are 4 possible settings.

- 1) Press **MENU**   (Ringer Set - Msg Tone).
- 2) Press UP or DOWN to change the setting.
- 3) Press  to select the setting.

## 5 Vibrator

Selects method of incoming call alert. The settings for this feature are: Ring, Vibrate, and Both.

**Note:** Vibrating mode is only supported when the optional vibrating battery, VBT-P1, is attached.

- 1) Press **MENU**   (Ringer Set - Vibrator).
- 2) Press UP or DOWN to change the setting.
- 3) Press  to select the setting.

## TALK TIMER MENU


## MENU 2

The Talk Timer appears when a call connects. It shows the duration of the call in hours, minutes and seconds. You can view talk time for the most recent call or for all calls made or received in public and private network channels.

- Refer to the *TimerReset* menu option on page 49 to reset the Talk Timer.



## 1 Last Talk

Displays the talk time of the most recent call.

- 1) Press **MENU**   (Talk Time - Last Talk).

## 2 Total Talk

Displays the talk time of all calls in Public mode.

- 1) Press **MENU**   (Talk Time - Total Talk).

## 3 Private

Displays the talk time of all calls in Private.

- 1) Press **MENU**   (Talk Time - Private).

## 4 Operating

Displays the total talk time since activation for all phone numbers or Number Assignment Modules. Refer to *NAM selection on page 50*.

- 1) Press **MENU**   (Talk Time - Operating).

## GENERAL SETTINGS




## MENU 3

The General Settings menu includes Display Contrast, Language, and the Keypad Volume.

## 1 Contrast




## Default Normal

Adjusts the display contrast.

- 1) Press **MENU**   (General - Contrast).
- 2) Press UP or DOWN to adjust the contrast.
- 3) Press  to select the setting.




## 2 Keypad Vol Default ))))

Selects the keypad volume level. There are 7 possible settings.

- 1) Press **MENU**   (General - Keypad Vol).
  - 2) Press UP or DOWN to change the setting.
  - 3) Press  to select the setting.
- Tones sound while adjusting volume and tone levels.
  - To mute the keypad volume select volume level OFF.

## 3 Language Default English

Select the language for message displays and menu options. There are 4 available languages to choose from: English, French, Spanish, and Portuguese.




- 1) Press **MENU**   (General - Language).
- 2) Press UP or DOWN to change the setting.
- 3) Press  to select the setting.

## CALL SETTING MENU MENU 4

The Call Setting menu includes Automatic Answer, Automatic Redial, Sending Your Phone Number, and Privacy mode.




## 1 AutoAnswer Default 1 OFF

Selects the length of time before your phone automatically answers incoming calls. This menu option can be set to answer a call after 5 seconds or after 10 seconds. You can also set this feature to OFF if you do not want the phone to automatically answer calls.


- 1) Press **MENU**   (Call Set - AutoAnswer).
- 2) Press UP or DOWN to change the setting.
- 3) Press  to select the setting.

## 2 AutoRedial Default 2 OFF

Use Automatic Redial to redial a call when your phone is unable to access the cellular system. The call will be redialed every 3 seconds for a total of 10 times until the call connects.

- 1) Press **MENU**    (Call Set - AutoRedial - ON).





This enables Automatic Redial. The phone retries the number.

- 2) Press  to return to Standby mode.
- If 10 attempts to connect a call are not successful, a fast busy tone sounds.

### 3 SendOwnNum (Outgoing Caller ID)

**Default 1 Enable**




Determines if your phone number is sent to the person you are calling for display. This feature can be enabled or disabled. Set this feature to Disable if you do not want your number displayed on the receiving person's phone.

- 1) Press **MENU**   (Call Set - SendOwnNum).
  - 2) Press UP or DOWN to change the setting.
  - 3) Press  to select the setting.
- If you select Disable, the screen will ask you to enter a feature code, supplied by some network service providers. Press .
  - Once programmed, this code will be sent with any call except emergency or voice mail.
  - If you selected any restriction levels except No Restriction, feature codes cannot be entered. See **Menu 6 1** (Security - Restrict) on page 46.
  - When traveling outside your local network service area, this feature may not work or let you make a call. Set feature to Enable.
  - This feature is supported by your phone, but may not be supported by your network service provider. Call your network service provider for detailed instructions on using this feature.

### 4 Privacy

**Default 2 OFF**

If the network supports the Voice Privacy feature, your call will be encrypted so that no one can access your call. Your phone always attempts to use privacy mode. If your service provider's system does not support this feature, or if the phone is on an analog channel, the *Voice Privacy Inactive!* displays and a warning tone sounds. You can turn this warning tone ON or OFF.

- 1) Press **MENU**   (Call Set - Privacy).
  - 2) Press UP or DOWN to change the setting.
  - 3) Press  to select the setting.
- The Voice Privacy feature may not be supported by your network service provider. Call your network service provider to determine if this feature is supported.



### NETWORK MENU

**MENU 5**

Use this menu to select a network channel when you are out of your cellular area.

#### 1 To Public

If the Public Mode setting in the Security menu is enabled, then this menu option will switch your phone from a non-public mode to public mode.

- 1) Press **MENU**   (Network - To Public).
- The phone searches the public system channels.



- If the phone finds a public network system channel, *Public System* displays. If the phone cannot find a public channel, *No Service* displays. If Public Mode in the Security Menu is disabled, *Restrict* displays.

## 2 Man.Search

Once a network has been selected, this menu option allows your phone to switch to another network in the current location.

- 1) Press **MENU**   (Network - Man Search).


The phone displays the name of 1 system channel available.

- 2) Press UP or DOWN to scroll through the available systems.
- 3) Press  to select a system.
- 4) Press  to exit from registration mode.

- The name of your current service or *No Service* message displays if the phone could not find a network system channel.
- This network selection is not preserved once you turn the phone off. The network used by your current NAM selection is used when you turn the phone back on.




## 3 New Search

This option registers your phone with a private system. (This also applies to a residential system.)

- 1) Press **MENU**   (Network - New Search).

*Searching Private System* message displays.

The first system name displays.

- 2) Press  (Register) to register with this private system, or press  (Next) to search for another system.
- 3) Press  to exit the registration mode.


- *Not available* message displays if your phone is not ready for this service.
- *No Service* message displays if the phone could not find a network system channel.

## 4 Select NAM

This menu option allows you to change NAMs.

- 1) Press **MENU**   (Network-Select NAM).

The cursor is placed beside the current NAM.

- 2) Press UP or DOWN to select a new NAM.
- 3) Press  when the cursor is beside the NAM that you want.

- You cannot change your network setting during a call.

## SECURITY MENU

## MENU 6



This menu allows you to control calling restrictions on your phone, enable or disable Public or Private mode, change your unlock code, and reset the talk timer.


To enter this menu you are required to enter your 4-digit security code. Contact your network service provider if you have lost your security code.

- If your security code is incorrect, *Incorrect Security Code* flashes and the previous menu displays.


## 1 Restrict Default 1 No Restriction


Determines the restrictions set for your phone.


- 1) Press **MENU**  (Security).
- 2) Enter the security code.
- 3) Press  (Restrict).
- 4) Select one of the following options:

**No Restrict:** Press  if you don't want any restrictions placed on your phone.

**Local Only:** Press  to allow local calls of up to 10 digits or toll free calls only.

**RCL 1-99:** Press  to allow calls only to numbers that are stored in the phone's memory.

**RCL 1-9:** Press  to allow calls only to numbers that are stored in memory addresses 1-9.




**RCV Only:** Press  to allow phone calls to be received, but not placed.

- Emergency calls are accepted at any restriction level.

- Manual DTMF transmission is allowed when no restriction or local only modes are selected.
- When the phone is in private mode there are no restrictions, even if this function is set to another level.


## 2 Public Default 1 Enable

Determines if your phone can be used on a public network system. You can set this feature to Enable or Disable. Select Enable to allow your phone to be used on a public network system.

- 1) Press **MENU**  (Security).
- 2) Enter the security code.
- 3) Press  (Public).
- 4) Press UP or DOWN to select the new setting.
- 5) Press  to select the setting.

## 3 Private Default 1 Enable

Determines if your phone can be used on a private network system. You can set this feature to Enable or Disable. Select Enable to allow your phone to be used on a private network system.

- 1) Press **MENU**  (Security).
- 2) Enter the security code.
- 3) Press  (Private).

- 4) Press UP or DOWN to select the new setting.
- 5) Press **ENTER** to select the new setting.

#### 4 Resident Default 1 Enable

Determines if your phone can use private network channels in residential areas. You can set this feature to Enable or Disable. Select Enable to allow your phone to use private network channels in residential areas.

- 1) Press **MENU** **6** (Security).
- 2) Enter the security code.
- 3) Press **4** (Resident).
- 4) Press UP or DOWN to select the new setting.
- 5) Press **ENTER** to select the setting.

#### 5 Unlock Code Default 0 0 0

Allows you to view or change your phone's unlock code.

- 1) Press **MENU** **6** (Security).
- 2) Enter security code.
- 3) Press **5** (Unlock code).  
The current Unlock code appears.
- 4) Enter a new 3-digit Unlock code.
- 5) Press **ENTER** to set the new Unlock code.

- Do not use the number 911 as an Unlock code.

#### 6 Security Default 0 0 0 0

Allows you to change your 4-digit security code.

- 1) Press **MENU** **6** (Security).
- 2) Enter the security code.
- 3) Press **6** (Security).  
The current Security code appears.
- 4) Enter a new 4-digit Security code.
- 5) Press **ENTER** to set the new Security code.

#### 7 TimerReset Default 2 No

Resets all Talk Timers (except the Operating Timer).

- 1) Press **MENU** **6** (Security).
- 2) Enter the security code.
- 3) Press **7** (TimerReset).
- 4) Press UP or DOWN to select Yes or No.
- 5) Press **ENTER** to select the setting.

#### THE LOCK MENU MENU 7

This menu option allows you to lock your phone. When your phone is locked, no calls except 911 can be placed or received.

##### To lock your phone:

- 1) Press **MENU** **7** (Lock).
- 2) Enter your 3-digit Unlock code.  
The phone displays the *-Locked-* message.

- *Invalid Code* flashes if the code is incorrect.

## To unlock your phone:

- 1) Enter your 3-digit Unlock code.
- You can still place emergency calls to 911 in Locked mode.
  - The locked status is preserved when the phone is turned off.

## NAM Selection

Your phone can be programmed with up to 3 Number Assignment Modules (NAM). Each NAM is programmed with a different phone number and unique cellular system information.

When you select a NAM, you are also selecting which cellular system you are using as your home system.

You can use only 1 NAM at a time.

- 1) Press **MENU** **(5.JK)** **(4.SH)** (Network - Select NAM).

The cursor is placed beside the current NAM.

- 2) Press UP or DOWN to select a new NAM.
  - 3) Press **(ENTER)** when the cursor is beside the NAM that you want.
- You cannot change your network setting during a call.

Contact your network service provider for more information about NAMs.

## 7. STORING AND RECALLING NUMBERS

Your phone can store up to 109 names and numbers. You can store and recall numbers in Standby or Conversation mode. Each entry stores a name, number and memory location.

To recall names and numbers, press **MEM** and select a menu item. Four items appear on the display at 1 time. Scroll DOWN to view the next items.

You can delete or revise an entry by pressing **MENU** when the name and number information appear on the display.

To dial a number from memory, enter the memory location and press **(SEND)**.

### Storing a Number and Name in Memory








There are 2 methods you can use to store a number and name in memory.

#### Method 1:

- 1) Press **MEM** **(4.SH)** (Store).
- 2) Select a memory location directly by entering its location digits, or press **(ENTER)** to automatically find an open location. *Refer to Specifying a Memory Location on page 54.*
- 3) Press **(ENTER)** after completing the number and name information. *Refer to Method 2 and Entering Names on page 52-53 for details.*

- You must enter a number but you are not required to enter a name.
- *Memory Full* flashes when there are no memory locations available.

### Method 2:


- 1) Enter a phone number.
- 2) Press **MEM**  (Mem Store).
- 3) Press .
- 4) The phone number displays. If correct, press . If incorrect, edit the number by pressing **MENU** to move cursor right to incorrect digit, press new digit, press **MEM** once to move left, press  to erase old digit. When finished, press .
- 5) The display prompts for a name. Enter a name associated with this number, or press  to bypass. Press  when done.
- 6) The name or number is stored in the first available memory location. The display confirms the memory location with this message: *Stored as ##.*

## Entering Names









- 1) When entering names, press number key labeled with the letter you want until the correct letter displays.

Example: To enter 'S', press  four times.

If you miss a letter, just keep pressing the key.

- 2) When cursor moves to the next position, press next key as needed.
- 3) Press  when finished.

## Editing Names

- 1) Press  to erase a letter.
  - 2) To change a letter, press **MENU** to move right or press **MEM** to move left until cursor is over the desired letter.
  - 3) Press new letter.
  - 4) Move cursor over incorrect letter and press  to erase.
- Press  to toggle between Uppercase, Lowercase, and Numeric modes.
  - Press **MENU** to insert a blank space.
  - Press and hold  to clear entire display.
  - Press  key in alpha mode from 1 to 10 times to enter ( ) < > / \ [ ] { }
  - Press  key in alpha mode from 1 to 10 times to enter , . ; : " ' ` ^ \_ ~
  - Press  key in alpha mode from 1 to 7 times to enter *space* ? ! & @ \$ |
  - Press  key in numeric mode from 1 to 6 times to enter # \* + - = %

## Deleting a Number from Memory

Numbers and names stored in memory can be deleted or revised. You can edit, move, or copy an entry to another memory location.

- 1) Retrieve the number and name from memory.  
*Refer to Recalling Stored Numbers on page 56 for more information.*
- 2) Press UP or DOWN to select the entry you wish to delete.
- 3) Press **MENU** (1) (Delete).
  - If you want to edit, copy, or move an entry, select options 2, 3, or 4.
- 4) Press (ENTER) (Yes) to confirm or (2ABC) (No) to return to the previous menu.

## Specifying a Memory Location

- 1) Press **MEM** (4DIAL) (Mem Store).
- 2) Select a memory location directly by entering its location digits, or press (ENTER) to automatically find an open location.

For example, press (2ABC) to view open memory locations 20 - 29. In this example, 21, 22, 25, 27, and 28 are open locations.

Open Address
2 :
. 1 2 . . 5 . 7 8 .

- 01-09 are reserved for super-speed dialing.
  - 10-99 are reserved for speed dialing.
  - \*0-\*9 are reserved for secured numbers.
  - A number indicates an open location.
  - A period indicates the location is occupied by another number.
  - An *Overwrite?* message appears when you choose a memory location that is already occupied.  
Press (1) (Yes) to replace the entry. Press (2ABC) (No) to return to the previous menu.
- 3) Enter the appropriate information when *Number?* and *Name?* appear on the display.
    - You must enter a number but you are not required to enter a name.
  - 4) Press (ENTER) after completing each entry.
    - *Memory Full* flashes if there are no more memory locations available.

## Storing a Number in Secure Memory

An \* precedes secured number entries (0-9). You must enter your 4-digit security code to store or revise a secured number.

- 1) Press **MEM** (4DIAL) (Mem Store).
- 2) Press (\*) and your 4-digit security code.

- An *Incorrect Security Code* message flashes if you entered the wrong security code.
- 3) Select a memory location (0-9).
  - 4) Press **ENTER** after completing number and name information.
- Repeat steps 2, 3, and 4 for additional secured numbers.

## Recalling Stored Numbers

- 1) Press **MEM** **2<sup>ND</sup>** (RCL Number).
- 2) Either enter the memory location or scroll using the UP and DOWN keys.
- 3) Press **ENTER** to make a selection.
  - To dial the number, press **SEND**.
  - To revise the entry, press **MENU**.
  - An *Empty* message appears and an error tone sounds if there are no numbers stored.

## Recalling Stored Names

- 1) Press **MEM** **3<sup>RD</sup>** (RCL Name).
- 2) Press UP and DOWN to select the correct name.
- 3) Press **ENTER** to make a selection.
  - To dial the number, press **SEND**.
  - To revise the entry, press **MENU**.
  - An *Empty* message flashes and an error tone sounds if there are no names stored.

## Recalling Unanswered Numbers

Your phone automatically stores up to 10 of the most recently unanswered incoming calls. When you have missed a call, the *Called* message displays with the number of missed calls.

- 1) Press **MEM** **6<sup>TH</sup>** (Unanswered).
- 2) Press UP and DOWN to scroll through the Unanswered Call memory.
 

The calling party number (if available from network) and call time display for the last 10 unanswered calls.
- 3) Press **SEND** to call the displayed number.

To delete a number, store a number, or delete all numbers from the Unanswered Call memory, follow these steps:

- 1) Press **MEM** **6<sup>TH</sup>** (Unanswered).
- 2) Press UP and DOWN to scroll through the Unanswered Call memory.
 

The calling party number (if available from network) and call time display for the last 10 unanswered calls.
- 3) Press **MENU**.
- 4) Select one of the following options:

**To Delete:** Press **Y** **Y** (Delete - Yes) to delete the number from the Unanswered Call memory.

**To Store:** Press **(2ABC)** (Store) to store the number in your phone's memory. *Refer to Storing a Number and Name in Memory on page 51 for more information about storing numbers.*

**To Delete All:** Press **(3DEF)** **(1)** (Delete All - Yes) to delete all of the numbers in the Unanswered Call memory.

## Recalling Received Numbers

Your phone automatically stores up to 10 of the most recently received calls, whether they were answered or unanswered.

- 1) Press **MEM** **(7FON)** (Received).
- 2) Press UP and DOWN to scroll through the Received Call memory.

The calling party number (if available from network) and call time display for the last 10 received calls.

- 3) Press **(SEND)** to call the displayed number.

To delete a number, store a number, or delete all numbers from the Received Call memory, follow these steps:

- 1) Press **MEM** **(7FON)** (Received).
- 2) Press UP and DOWN to scroll through the Received Call memory.

The calling party number (if available from network) and call time display for the last 10 received calls.

- 3) Press **MENU**.
- 4) Select one of the following options:

**To Delete:** Press **(1)** **(1)** (Delete - Yes) to delete the number from the Received Call memory.

**To Store:** Press **(2ABC)** (Store) to store the number in your phone's memory. *Refer to Storing a Number and Name in Memory on page 51 for more information about storing numbers.*

**To Delete All:** Press **(3DEF)** **(1)** (Delete All - Yes) to delete all of the numbers in the Received Call memory.

## 8. PROBLEMS YOU CAN SOLVE

### Hardware Concerns


#### **The phone does not turn on**

If the phone is new, see “Charging the Battery” on page 12. Otherwise, recharge or replace the battery. If this does not solve the problem, contact Mitsubishi Wireless customer service in the US at 1-800-866-6600; in Canada, call 1-905-475-7728.

#### **The phone does not work with the handsfree adapter**

A battery is required to use the handsfree adapter; verify a charged battery is installed on the back of the phone. Verify the phone is attached to the adapter.

#### **Dropped calls**

The signal strength will depend on your location. Check the received signal strength indicator , make sure your antenna is fully extended, and try again after the signal strength increases (another bar appears). In addition to geographic location, the signal will weaken behind walls, under bridges, in tunnels, or other obstructions.

#### **Volume varies/mutes briefly**

The system's signal strength will vary depending on your location. Audio level variations can occur due to:

- a) a weak signal (see “Dropped calls”).
- b) high speed travel.

### Audible Warnings

#### **Error tone**

An error tone sounds when an unexpected key is pressed (e.g., pushing SEND after pushing MENU).

#### **Fast busy tone**

A fast busy tone indicates that the system has not accepted your call.

#### **Siren tone**

A siren tone indicates an invalid phone number.

#### **Triple high-pitched tone**

A short triple high-pitched tone generated every 20 seconds indicates the battery needs to be charged.


### Display Messages

#### **Battery full**

The battery has finished charging.

#### **Charging**

The phone is charging normally while powered off. Since the phone is off, you cannot place or receive calls.

You can press the  key to turn on the phone and operate it normally. The battery will continue to charge (the battery can be charged with the phone either off or on).

## CHECK or Program NAM

Mitsubishi phones are capable of self-diagnostics, and will alert you when an internal error occurs. For *CHECK* errors, write down the number following *CHECK* and contact your phone's network service provider for repairs. If the phone has a *Program NAM* error, your network service provider should be able to solve the problem over the phone.


## -Locked-

When the phone is turned on, it may require an access code for security. Enter the preset 3-digit Unlock code.

## Low battery! and phone beeps

The phone will turn off in 1 minute. The phone should be turned off and the battery recharged or replaced.

## Key lock

Key Lock prevents accidental key entry. Press **MENU** and  to turn off this feature.

## -Mute-

Press any key except  to turn off mute and take the call off hold.

## No service


This message indicates you cannot connect to the system (calls cannot be placed or received), which may be due to:

- a) The system in this area does not support your phone.
- b) The signal is too weak. Try moving to another location to use your phone.

## Voice Privacy Inactive!

The system does not support the voice privacy feature, or the phone is on an analog voice channel.

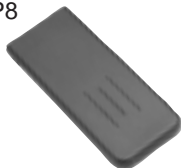
## No Voice Mail Center Number

The Voice Mail Center phone number needs to be set up before using quick voice message access. The screen will prompt to edit voice mail number. Press  (Yes), then enter your Voice Mail Center phone number.

## 9. ACCESSORIES

880 mAh NiMH battery

SBT - P8



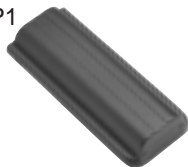
1500 mAh NiMH battery

EBT - P7



880 mAh NiMH vibrating battery

VBT - P1



Cigarette lighter adapter/ rapid charger

CIG - P6



Desktop rapid charger

QCK - P8



AC rapid charging adapter

ACP - P3



Handsfree headset

HDS - P2



Carrying case

T200CSE



Belt clip  
CLP - P5



Phone holder  
HLD - P6



The Mitsubishi Electric America Foundation was established in 1991 to contribute to a better world for us all by helping young people with disabilities, through technology, to maximize their potential and fully participate in society. The Foundation has used wireless phones to help connect teachers, students with disabilities, and their families, enhancing the learning environment and improving school communications.

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# ONE YEAR LIMITED WARRANTY

## MODEL T200

**Mitsubishi Wireless Communications, Inc.**  
**3805 Crestwood Parkway, Suite 350**  
**Duluth, GA 30096**  
**800-866-6600**

**Mitsubishi Electric Sales Canada Inc.,**  
**Corporate Service Division**  
**4299 14th Avenue, Markham, Ont. L3R OJ2**  
**Ph. (905) 475-7728**

Mitsubishi Wireless Communications, Inc. (MWCI) warrants to the original purchaser ("Purchaser") this product against defects in materials and workmanship as set forth below. If ownership of the product is transferred, this warranty is terminated. This warranty applies only to product purchased or repaired in the United States or Canada.

For a period of one year from the date of first retail purchase, MWCI shall at its sole and absolute opinion either repair or replace the defective product or part with a new or comparable rebuilt product or part. Mitsubishi brand accessories are covered under warranty for one year. Batteries are covered under warranty for 90 days. Carrying cases are covered under warranty for one year.

To obtain warranty service in the US, Purchaser shall contact MWCI at 800-866-6600 to obtain the nearest location of the MWCI authorized service center. The Purchaser should contact that authorized service center to make arrangements for repair or replacement. To obtain warranty service in Canada, please contact Mitsubishi Electric Sales Canada, Inc. (MESCA) at (905) 475-7728 or at the Canadian address above. Purchaser must present proof of

purchase in the form of a retail bill of sale, invoice or other document that will show that the product is within the warranty period. No charge will be made for parts or labor directly related to the repair or replacement of the defective product or part. The repaired or replaced product will be warranted for 90 days from the date of return shipment or for the balance of the warranty, whichever is longer.

Repair or replacement, as provided under this warranty, is the only remedy provided to the purchaser. MWCI SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED DIRECTLY OR INDIRECTLY BY THE PRODUCT such as, but not limited to, interruption of service, loss of anticipated benefits or profits, or damage to any other equipment resulting from the use or operation of the product, or arising from breach of express or implied warranties on this product. MWCI SHALL NOT BE LIABLE FOR DAMAGE TO TELEPHONE EQUIPMENT, VEHICLES, AND/OR PERSONAL PROPERTY CAUSED BY IMPROPER INSTALLATION.

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Some States or Provinces do not allow the exclusion or limitation of incidental or consequential damages, or limitations on an applied warranty, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State, Province to Province.