

Owner's Manual Cellular Telephone System



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The BMW CMT 3000VR Cellular Telephone exemplifies the state of technology found throughout your BMW. Like all BMW systems, it has been designed to be easily used and understood.

The CMT 3000VR is a state of the art phone which allows you to easily place and receive phone calls without taking your eyes off the road or your hands off the steering wheel. This is accomplished by integration of the phone with the steering wheel controls located to the left of the air bag, a comprehensive Multi Information Display (MID), a full featured handset between the console arm rests, and a voice recognition system to dial preprogrammed numbers at your voice command.

Although it is quite sophisticated, ease of use of your new phone was given the highest priority. For example, preprogrammed numbers can be dialed by a few presses of the steering wheel controls, and many features can be accessed from a convenient feature menu via the handset. This manual also was designed for ease of use. Many commands are explained in text and illustrations including the specific key sequences and examples of what appears in the display.

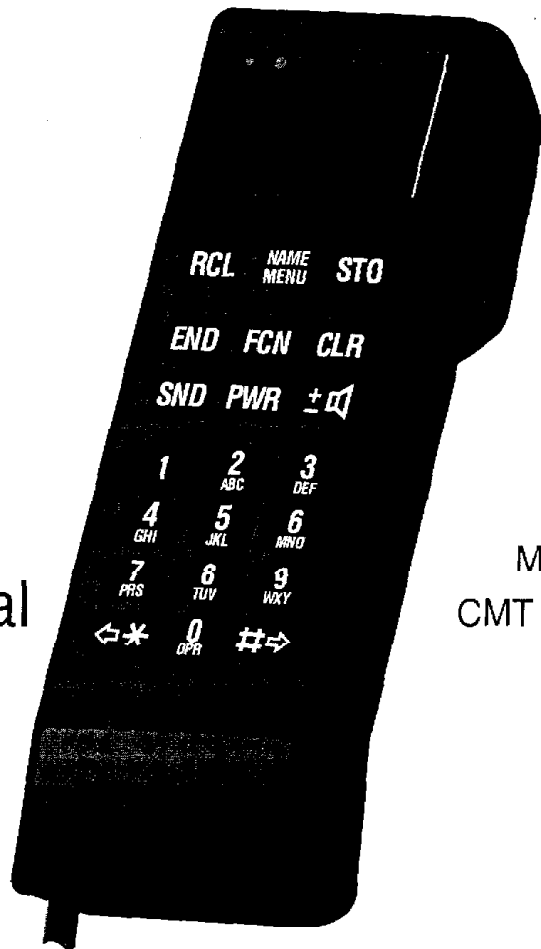
We expect that you are anticipating the enjoyment and convenience of placing that first call from the comfort of your BMW. However, we encourage you to carefully read this manual before attempting to use your new phone. You will not only learn how to place your first cellular phone call, but you will also be able to obtain maximum use and benefit of the many features of this phone.

BMW of North America, Inc.



**BMW
Cellular
Mobile
Telephone
System**

Owner's Manual



Model
CMT 3000VR

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Safety Precautions

1. We recommend that phone dialing, and the use of the Multi Information Display (MID), and steering wheel controls be used only when the vehicle is stationary. By default, the handset keypad will only operate when removed from its eject box. Your BMW phone features voice recognition, hands free, and steering wheel control operation, which allow you to place calls or talk on the phone without removing your hands from the steering wheel. Therefore, conversation is possible while driving your BMW.
2. Your cellular service provider may require a PIN code to be entered while placing a call to prevent telephone 'cloning'. This PIN code cannot be entered on the MID. You must enter the PIN code on the handset. Please contact your cellular service provider for further information about PIN codes.
3. Turn off your phone while driving in a blasting area or any area designated by "TURN OFF TWO WAY RADIO"

- signs. Under certain circumstances, cellular telephones can interfere with blasting caps and other similar devices.
4. Do not use the phone when your BMW is being filled with gasoline or when near any flammable liquids or gasses.
 5. Do not store any flammable liquids in the trunk of your BMW, as the phone transceiver is located there.
 6. All cellular telephones use UHF signals to transmit and receive data. These signals are similar to microwave frequencies; therefore, anyone with a pacemaker or other electronic life support system should consult with their physician first.
 7. Do not allow children to play with the BMW cellular phone.

WARNING

The following offenses can be punished by fine, imprisonment, or both:

- Using obscene, indecent, or profane language.

- Using the unit to give off false distress calls.
- Wiretapping or otherwise intercepting a telephone call unless that person has first obtained the consent of the parties participating in the call.
- Making anonymous calls to annoy, harass, or molest other people.
- Charging to an account without authorization to avoid payment for service.
- Refusing to yield a party line when informed that it is needed for an emergency call (It is also unlawful to take over a party line by stating falsely that it is needed for an emergency).
- Radiotelephone calls are broadcast over the airwaves and are not scrambled or secure in any way. Although it is unlawful for unauthorized individuals to divulge or use any information obtained from intercepting or "listening in on" conversation intended for others, it is possible to do so.

Equipment Precautions

1. Phone operation should be limited to the ambient temperature range of -30°C to +60°C (-22°F to +140°F).
2. Never attempt to disassemble, modify, or rewire this unit. Refer all servicing to your local BMW dealer.
3. Do not abuse the phone handset, eject box, or transceiver. They are designed to provide you with reliable service under all driving conditions, given reasonable care and use.
4. This phone is not waterproof. Should it get wet, consult with your BMW dealer before using it.
5. Only use a clean, slightly damp cloth to clean the antenna, the handset, and the phone cradle. Do not use any cleaners or chemicals on the phone or the antenna. Make certain the phone is OFF when cleaning it.
6. The antenna mast should be unscrewed from the base when washing your BMW in any automatic car wash. Your BMW dealer will demonstrate this simple procedure.

Always replace the mast before using the phone.

Rules and Regulations

Your cellular telephone is a radio transmitter and receiver. When the phone is ON, the on-glass antenna is the part of the phone that sends out and receives radio frequency (RF) energy. The phone operates in the frequency range of 824 MHz to 894 MHz and employs commonly used frequency modulation (FM) techniques. When you use your phone, the cellular system handling your call controls the power level at which your phone transmits. The power level can range from 0.005 of a watt to 3.0 watts.

Exposure to Radio Frequency Energy

In 1991 the Institute of Electrical and Electronics Engineers (IEEE), and in 1992 the American National Standards Institute (ANSI) adopted the 1992 ANSI Standard for safety levels with respect to human exposure to RF energy. Over 120 scientists, engineers, and physicians from universities, government health agencies, and industry, after reviewing the available body of research, developed this updated

Standard. In March, 1993, the Federal Communications Commission (FCC) proposed the adoption of this Standard. The design of your phone complies with this updated standard. If you want to limit RF exposure even further, you may choose to control the duration of your call and operate the phone in the most power efficient manner.

Efficient Phone Operation

Do not operate your mobile cellular telephone when a person is within 4 inches (10 centimeters) of the vehicle antenna unless that person is shielded from the antenna by a metal surface such as the roof of the car. Otherwise you may impair call quality, may cause your phone to operate at a higher power level than is necessary, and may expose that person to RF energy in excess of the levels established by the updated ANSI Standard.

Driving

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

- give full attention to driving,
- use hands-free operation, and
- pull off the road and park before making or answering a call if driving conditions so require.

Electronic Devices

Most modern electronic equipment - for example, equipment in hospitals and cars - is shielded from RF energy. However, RF energy from cellular telephones may affect some electronic equipment.

Turn your phone OFF around health care facilities when any regulations posted in the areas instruct you to do so. Always request permission before using your phone near medical equipment.

Children

Do not allow children to play with your phone. It is not a toy. Children could hurt

themselves or others (by poking themselves or others in the eye, for example). Children also could damage the phone or make calls that increase your telephone bill.

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." Construction crews often use remote control RF devices to set off explosives.

Potentially Explosive Atmospheres

Turn off your phone when in any area with a potentially explosive atmosphere. It is rare, but your phone or its accessories could generate sparks. 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 gas stations, fuel or chemical transfer or storage facilities, and areas where you would normally be advised to turn off your engine.

Do not transport or store flammable gas, liquid, or explosive in any compartment of your vehicle which contains your phone transceiver, handset, or other accessories.

Vehicles powered by liquefied petroleum gas (such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this standard, contact the National Fire Protection Association, One Batterymarch Park, Quincy, MA 02269, Attn: Publications Sales Division.

Features of Your BMW Cellular Phone

- Voice Recognition
- Interface to Vehicle Multi-Information Display (MID)
- Interface to Steering Wheel Controls and Instrument Cluster Display
- Color Coordinated Backlit Display and Keypad
- Handset Display Follows Instrumentation Dimming Control
- Handset Stored in Eject Box
- Handset Keypad Disabled When in Eject Box to Prevent Accidental Key Presses
- Entertainment Radio Mute
- Signal Strength, Volume Meters
- Two Phone Number Capability (Dual NAM)
- Two-Line, 16-Character Dot Matrix Display
- *In Use*, *No Svc*, and *Roam* Indicators
- Alphabetic Directory with Search
- Automatic Redial
- Digital Hands Free Utilizing Vehicle High Fidelity Speakers
- Adjustable Hands Free and Earpiece Volume
- Speed Sensitive Volume Adjust
- 99 Memory Locations, including up to 10 for Voice Recognition
- Speed Dialing
- Automatic Answer
- 6 Call Timers
- 5 Selectable System Scan Settings
- 7 Selectable Service Levels
- 32 Digit Dialing
- Theft Alarm
- DTMF End-To-End Signalling
- Call In Progress Protection
- Call In Absence Indicator
- Electronic Lock with Programmable Unlock Code
- Automatic Lock Option
- Status Review
- Recall Last Number Called
- Last Digit Clear / Clear All
- Memory Autoload

- Memory Linking with Pause
- On Hook Dialing
- Switchhook Flash
- Master Clear / Master Reset

General Specifications

Subject to change without notice

Frequency Range:

Transmit 824-849 MHz

Receive 869-894 MHz

Number of RF

Channels: 832 Full Duplex

Channel Spacing: 30 kHz

Duplex Spacing: 45 MHz

Frequency Stability: ± 2.5 PPM

Operating

Temperature Range: -30°C to +60°C

Supply Voltage: 13.7 VDC $\pm 20\%$

Negative Ground

RF Power Output: 3 Watts ± 2 dB

(50 Ohms)

Spurious Emissions: < -60 dBc

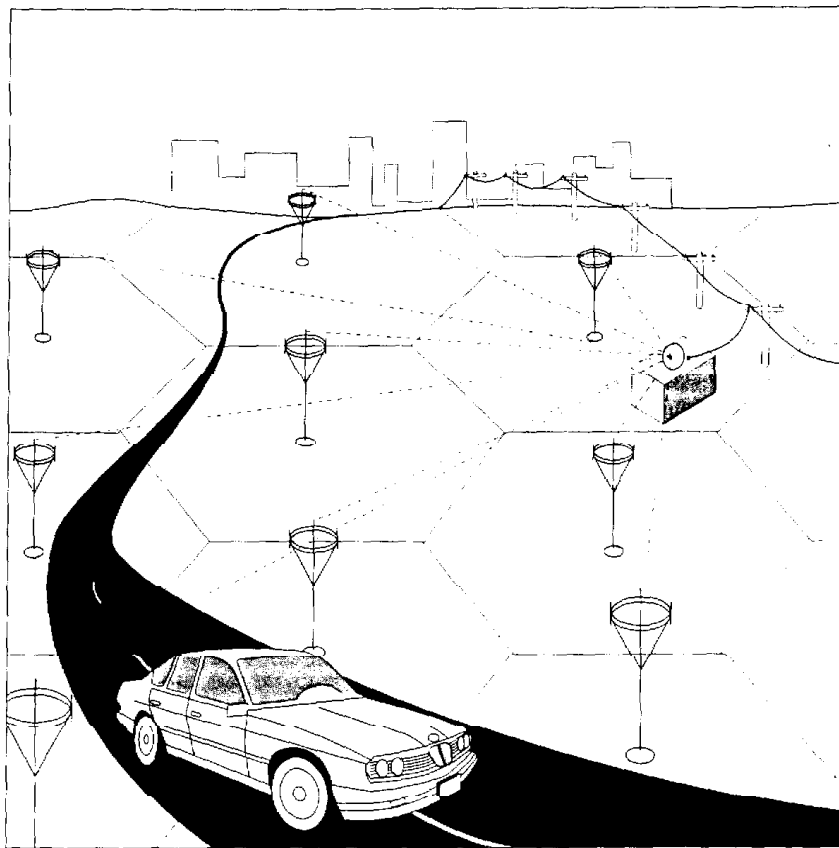
12-dB SINAD: -116 dBm

Basic Explanation of the Cellular Phone System

A cellular phone operates similar to any conventional phone when making and receiving calls. The major difference is how the call is processed before being sent to your local land line telephone system. In essence, it works like this:

Cellular System Areas are typically metropolitan areas divided geographically into smaller areas referred to as "cells." Each of these cells has its own transmitter and receiver. The number of cells in a system will vary depending on usage and building density

As you drive from cell to cell within a Cellular System Area you will experience a number of "hand-offs" as your call is transferred from one cell to another. Normally you will not be able to hear a hand-off, but you may notice a short (about 1/5 second) loss in signal during a hand-off.



Your cellular phone is assigned a phone number just like a land line phone. The phone number is assigned by one of the typically two cellular system operators in your area. One of the cellular system operators, called the wireline operator, is also a supplier of land line phone service in your area. The wireline system is also referred to as the "B" system. The other system operator, to prevent a monopoly on cellular phone service, must not be run by the local land line service supplier. This system is referred to as the non wireline system and also referred to as the "A" system. Whichever system, A or B you are on in your Cellular Service Area is referred to as your **home** system.

When you are in your home system, you can typically place phone calls just as you would from your home or office phone and you can be called in your car in the same manner. However, if you are called and you are not in your car with your phone off, instead of infinite ringing, the calling party will be given a message stating that you have left your vehicle or left your home system.

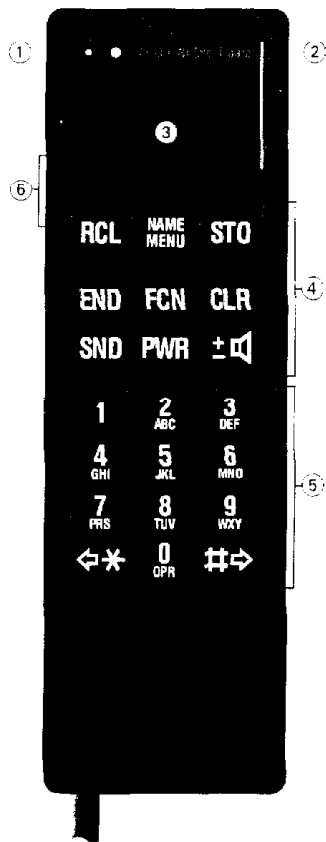
When you leave your home system and enter another cellular system, you are

considered to be **roaming**. When you are roaming, the *Roam* indicator will either light steadily or flash to indicate your roam status. If you are roaming on the same type system as your home system (A or B), the *Roam* indicator will light steadily. If you are roaming on a system of the other type, the indicator will flash.

Because cellular systems are not all interconnected, you cannot be called directly as when in your home system. Instead, the person calling you must first dial the **Roamer Access Number** for the cellular service provider on whose system you are roaming. Then, on receipt of a second dial tone, he dials your 10 digit mobile phone number. Similarly, if you wish to place a local call in the metropolitan area in which you are roaming you may have to enter the area code of the city you are in. This is because your phone is still considered to be in the area code of your home system. Also, you may not be able to automatically place or receive calls in a given Cellular Service Area unless you call a special number and guarantee payment via a credit card. Your home cellular service provider can give you further information regarding roaming.

As you travel, you will encounter areas without cellular coverage, typically rural areas located away from major interstate expressways. In these areas, you will not be able to place or receive phone calls. You will know when you are not in a service area by the **No Service** indicator being lit. If you try to place a call when not in a service area, you will experience a series of alternating high-low tones, called "Intercept" tones.

If you are in a service area, but the system cannot process your call, you will hear a fast busy signal. This is referred to as a "Reorder" tone.



Operating Overview – Handset

① Photo Sensor

Senses the light level in your BMW and adjusts the display and keypad brightness

② Status Indicators

Power On Dot (green) – Illuminates whenever the phone is on.

In Use – Illuminates from the time a call is initiated or answered until the call is terminated.

No Svc (No Service) – Illuminates when the unit is out of range of the cellular system. Calls cannot be placed or received.

Roam – Illuminates when the unit is within range of a cellular system other than its home system.

Home type system: steady indication

Non-home type system: blinking indication.

Signal Strength Meter – Displays a bar-graph relative indication of received signal strength from the cellular system.

③ Dialed Number And Message Display

Provides a visual indication of telephone numbers and messages associated with mobile telephone service.

④ Function Keys

RCL Press to recall and display telephone numbers stored in memory. Also, press to display the last number entered if display has been blanked.

NAME MENU Press to activate the alphabetic scrolling feature. The last name recalled will appear in the display. To begin scrolling at a specific letter, select the letter using the keypad before scrolling with \leftarrow and \rightarrow . Press **END** to place a call to the displayed name or press **END** to exit the directory.

Press **NAME MENU** after **FCN** to activate the menu feature. When each menu option appears in the display, press **STO** to turn the option on, or **CLR** to turn it off. Press \leftarrow or \rightarrow to scroll through the menu choices.

- STO** Press to store telephone numbers into any of the memory locations.
- END** Press to terminate call. Also terminates certain function sequences.
- FCN** Used in combination with other buttons for specific user programmed operations.
- CLR** Press and release to clear the last digit entered. Press and hold to clear the display in the event of an error (does not affect numbers stored in memory).
- SND** Press to initiate a call to the entered telephone number or to answer a call. Press for switch hook flash when a call is in process.
- PWR** Press to turn on. Press again to turn off.
- *MF** Press to change speaker volume in hands free. (In-cradle keypad operation must be enabled: see page 33.)
- ices requiring DTMF tones. See page 30. Also:
- ←*** Press to scroll backward through the menu choices or alphabetic directory.
- **→** Press to scroll forward through the menu choices or alphabetic directory.

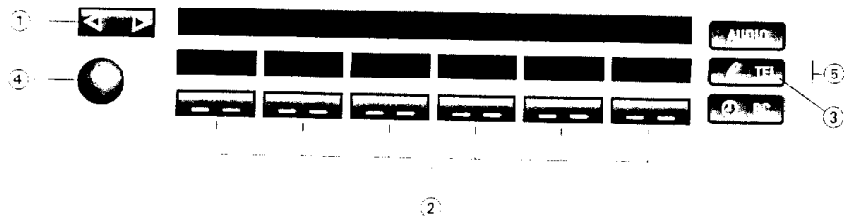
⑥ Volume Buttons

Repeatedly pressing or holding the volume button will either increase or decrease sound level of received party audio or confirmation tones. See page 24.

⑤ Numeric Keypad

Used to enter telephone numbers. Numbers are entered prior to initiating call and can be used during call for ser-

Operating Overview – Multi Information Display (MID)




① Scroll Keys

Scroll through most frequently used phone numbers/names (see page 22).

② Soft Keys

Show either names to call from most frequently used list or functions to perform such as dialing, recalling by name, etc.

③ Telephone Button

Press  to place or end a call. Press TEL to put the MID into telephone mode.

④ Volume Control Knob

See page 24.

⑤ Status Indicators

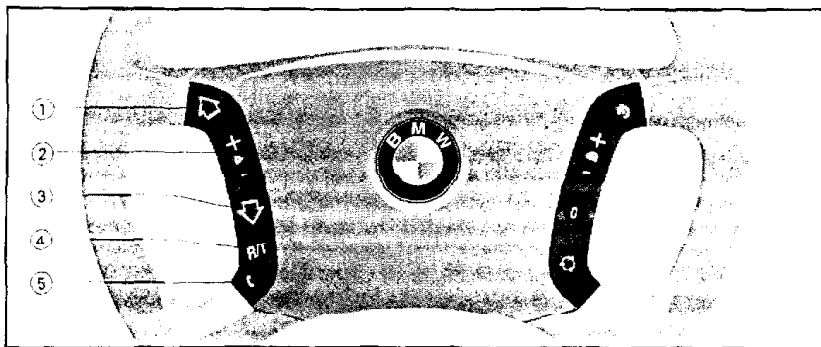
Red – *No Service*

Yellow – *Roam*

Green – *In Use*

Operating Overview – Steering Wheel Controls

(See page 20.)



① Scroll Up Button

Scroll up through alphabetic name-tags (or phone numbers) previously stored.

② Hands Free Volume Button

Adjust hands free volume in a call.

③ Scroll Down Button

Scroll down through alphabetic name-tags (or phone numbers) previously stored.

④ Radio/Telephone Button

Switches between Radio and Telephone mode.

⑤ Call Control Button

Press to place or end a call.

Command Summary

Keypad Entry

CLR (press and release)

CLR (press and hold)

CLR, **STO**, digit, digit

digit, **SND** or

digit, digit, **SND**

FCN, **NAME MENU**, **1**, **3**, **STO**

FCN, **NAME MENU**, **2**, **7**, **STO**

FCN, **NAME MENU**, **4**, **3**, **STO**

FCN, **NAME MENU**, **5**, **1**, **STO**,
six-digit security code, level

FCN, **NAME MENU**, **5**, **2**, **STO**,

six-digit security code

FCN, **NAME MENU**, **5**, **3**, **STO**,

six-digit security code

FCN, **NAME MENU**, **5**, **4**, **STO**,

six-digit security code,

digit, digit, digit

FCN, **NAME MENU**, **5**, **5**, **STO**,

six-digit security code

Function Description

Clear last entry in display

Clear all of display

Clear memory location

Quick dialing

Status review (press **⇐***, **⇒**
to scroll, **END** to exit)

Display current system ID

Clear Resettable Call Timer

Change service level

Master Reset

Master Clear

Change unlock code

Recall your unlock code

444

Keypad Entry

FCN, **NAME MENU**, **9**, **1**, **STO**

FCN, **NAME MENU**, **9**, **1**, **CLR**

FCN, **NAME MENU**, **9**, **9**, **STO**

FCN, **0**, six-digit security
code (twice), **RCL**

FCN, **5**

FCN, **6**

FCN, **NAME MENU**

FCN, **VOL UP (DOWN)**

NAME MENU

RCL

RCL, digit

RCL, digit, digit

RCL, **0**, **0**

Function Description

Enable keypad

Disable keypad

Enter Voice Recognition Menu
mode

Enter NAM programming
mode. (press **⇒⇐** to leave
without change, press **SND** to
save changes)

Lock phone

Mute / Unmute Phone

Enter feature menu mode
(press **⇐***, **⇒** to scroll)

Adjusts the alert (ringing)
volume up (down).

Recall by name

Recall number from display

Recall number from memory
locations 1-9

Recall number from memory
locations 01 - 99

Recall last number dialed

Keypad Entry**RCL**, **☎*****Function Description**

Select system type: **☎***, **##☎**
 for scrolling, **lsto**, saves, **END**
 cancels

RCL, **##☎**

Displays your phone number

RCL, **##☎**, **##☎**

Shows individual call timer

RCL, **##☎**, **##☎**, **##☎**

Shows resettable call timer

RCL, **##☎**, **##☎**, **##☎**, **##☎**

Shows cumulative call timer

RCL, **SND**

Transmits DTMF tones
 from memory during a call

STO, digit, digit

Program phone number (and
 voice tag) into memory location.

STO, digit, **☎***

Program phone number (and
 voice tag) into first available
 memory location in specified
 decade.

STO, **☎***

Program phone number (and
 voice tag) into first available
 memory location.

SND

Initiates a call, or flash while in
 a call, or starts auto redial

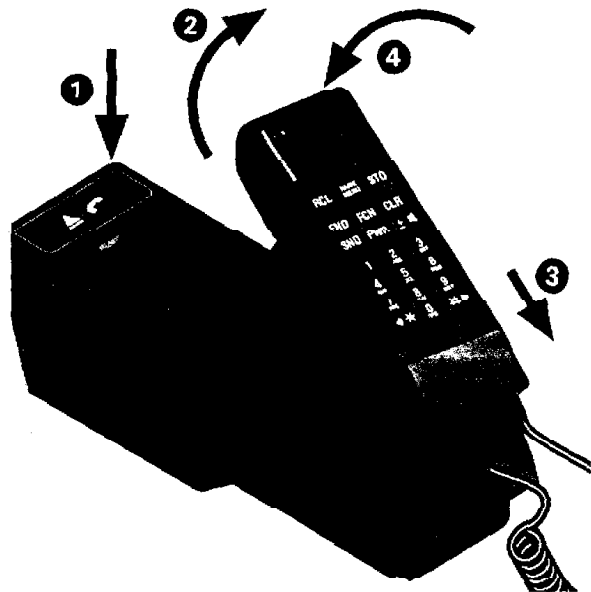
VOL UP (DOWN)

When offhook, adjusts
 earpiece volume up (down).
 When onhook, adjusts
 speaker volume up (down).

Lifting And Replacing The Handset

For your safety, the telephone handset is mechanically latched in place when not in use. To remove the handset, (1) press the button located above the handset on the cradle, then (2) lift up on the handset. To replace the handset, (3) place the bottom of the handset into ridge built into the cradle, then (4) pivot the top of the handset downward until you hear a "click" from the latching mechanism.


NOTE Unless Keypad Enable is chosen from the Feature Menu, the handset will not operate when in the cradle.



Basic Operation of Your BMW Cellular Phone


This manual was designed for ease of use. Many commands are explained in text, with specific key sequences and examples included in it. By combining the bold section headings, key sequences, and actual displays, you can operate any phone function without searching through the detail of the text for instructions. We suggest, however, that you read all the text to familiarize yourself with the full capabilities of your BMW phone.

In this manual, references are made to the Vehicle Multi Information Display (MID), steering wheel controls, and instrument cluster display. Please consult the general MID manual (supplied separately) for basic operation of the MID with other vehicle electronics. Specific telephone functions with the MID are incorporated into this manual. All telephone features are also useable with handset keys in case your vehicle does not have these control and display features. However, the MID and steering wheel switches operate independently from the handset. For example, recalling a phone number on the

handset, then pressing  on the MID will not place a call to the number recalled on the handset. In this case, you must press **[SND]** on the handset.

The keypad is normally disabled and the handset display is dimmed when in the eject box to prevent accidental key presses or call initiation. This feature may be enabled or disabled through the feature menu (see page 33).

Turn On Power

Typically, your BMW cellular phone will turn on with the ignition switch in position 1 or 2 unless it was turned off with **[PWR]**. If it does not turn on with your vehicle, press either **[PWR]** on the handset, TEL on the MID, or R/T on the steering wheel switches. All indicators will light momentarily, as a self test; the display will turn on at full brightness then dim to match the ambient light in the vehicle; then, the display will indicate  followed by a series of bars which indicate received signal strength. This Signal Strength Meter (SSM) is described on page 23.


NOTE Before you can use your phone's integrated features, you must store the phone numbers and alphabetic name tags

of the people you frequently call and attach a "voice tag" to each of these phone numbers (up to a total of ten voice tags).


Store a Number, Alphabetic Tag and Voice Tag in Memory

Enter the number you wish to store. We suggest you enter the area code for all phone numbers stored in memory locations. Many cellular systems, when you are roaming, require an area code in order to place a call.

If you make a mistake, pressing **[CR]** will clear a digit. Pressing and holding **[CLR]** will erase all entered digits.





Press **[STO]**,  using the handset keypad. This will store the number into the next available memory location.


You may also store into a specific memory location by pressing **[STO]** followed by the desired two-digit memory location (01 - 99).


Next, Alpha will briefly appear in the handset display, followed by  which indicates the position for the first alphabetic character.

The name you store with each telephone number is constructed with up to 14 characters entered from the handset keypad.



Enter a letter at the cursor location by repeatedly pressing the numeric key labeled with the character you wish.


For example, pressing  once will display A. Pressing  a second time will display B, and a third time will display C. The letter Q can be displayed by pressing  twice, even though it is not shown on the button, and the letter Z can be displayed by pressing  four times.

When the desired character appears in the display, move the cursor to the next character by pressing .

To enter a space, as when separating a name from an initial, move the cursor twice by pressing .

Repeat the previous steps until the entire name you wish appears in the display.

To backspace through the display to make a correction, press , or .



When you are done, press .

Next, the phone will respond audibly with "Directory name, please." Pause a moment and speak the name of the person whose number you have just entered. Repeat the name as requested

The phone will respond "Done training..." when it has finished storing the voice tag.

You can store up to 10 voice tags associated with any 10 of the 99 memory locations. Typically, these 10 voice tags will be used with your 10 most frequently called numbers. When you have stored all 10 voice tags, the phone will respond "Directory full" instead of "Directory name, please."



NOTE *As a suggestion, please make your voice tags as distinct as possible. Use first and last names, or two syllable words where possible. In cases where names sound similar, use a last name or other identifier which will distinguish the two. Also, use a normal, clear tone of voice, and do not attempt to store while the vehicle is in motion, since irregular background noise inhibits proper voice storage. Finally, make sure the doors, sunroof, and windows are closed during voice tag storage.*

If the phone does not hear your response, you will hear "Ready!." Press , the two digit memory location, and  again (to save the alphabetic name tag) to re-store the voice tag.

Further information about voice recognition can be found on page 34.

Place a Call Using Voice

In order to place and receive calls, your BMW cellular phone must be on and unlocked, and the red *No Svc* (No Service) indicator on the handset must be extinguished.

Press and hold  or  on the handset.

NOTE *The keypad must be enabled in order for this feature to work when in the eject box. See page 33.*

The phone will respond with: "Name, please." Pause, then speak the name of the person you wish to call. If the spoken name matches a stored voice tag, the phone will respond with "Thank you." Also, the phone number (or alphabetic name) and memory location of the person you are calling will momentarily be displayed in the handset display.



If the phone cannot match the spoken name to one of its voice tags, it will respond with "Again, please", or "Repeat, please", or "Once more." After three tries, the phone says "Name not recognized", and a call is not placed.

If the call was initiated with the handset in the eject box, the call will be placed hands free. Speak in a normal tone of voice. The microphone in the headliner will pick up your voice (and the voices of your passengers). You will hear the called party through the high fidelity speakers located in the door.



Place a Call Using the Steering Wheel Controls

First, press the R/T (radio/telephone) button to enter telephone mode. The Steering Wheel Control buttons will stay in telephone mode until either the vehicle is turned off or the R/T button is again pressed to return to radio mode.


The instrument cluster display will show the phone number (or both the alphabetic tag and phone number, if both were stored) of the first memory location stored, along with the memory location number.


Next, press  or  to scroll up or down through the alphabetic name-tags you had previously stored.

Finally, press  to place the call.


Hands free volume in the call can be adjusted with  and  (which also adjust radio volume when in radio mode).

Place a Call with the MID

Press TEL to place the MID into telephone mode, then press the **Number** soft key to access digit dialing. Enter the digits to dial, then press  to place the call. Press the CLR soft key to clear a digit.

NOTE *If the **Number** soft key is not shown, press the  soft key until that screen is displayed.*

BMW Roadside Assistance (Emergency Dialing)



Memory location 99 contains the BMW Roadside Assistance number. On your MID, first press TEL to place the MID into telephone mode. Then, press the button labeled 'Emergency'. Finally, press . This will place a call to BMW Roadside Assistance.

Although it is recommended that you keep the BMW Roadside Assistance number in memory location 99, there is no requirement that you do. This 'Emergency' location can also be used to store the number of the cellular emer-

gency response number in your area. Please note that this number may not be 911 as is common in land-based systems. If nothing is stored in location 99, pressing this soft key will display **Memory Empty!**.

NOTE *You may also call this number if the phone is locked.*

Call Most Frequently Called Names with the MID

If you have stored alphabetic names along with phone numbers, you can also place a call to the most frequently called names by pressing the soft key corresponding to that name, followed by . Only the first four of the maximum eight most frequently called will be displayed. Press  to display the second four.

Removing a Name from the Most Frequently Called List

Press and hold the appropriate soft key for five seconds. That name will be removed from the list.


Place a Call to a Number Not Stored in Memory

Simply enter the telephone number on the handset using the digit keys, then press **[SND]**.

Whenever a call is in progress, the green *In Use* indicator on the handset will be illuminated. At the end of the call, the indicator will be extinguished.

If the handset's yellow *Roam* indicator illuminates at any time, your unit is operating on a cellular system different from your home system. Contact your Cellular Service Provider for information on roaming.

End a Call

To end the call, either press the  Steering Wheel Button, MID Button, or press **[END]** on the handset.

Hands Free Operation

When the handset is in the eject box and you place a call either by voice recognition (VR), Steering Wheel Controls, MID, or by entering a number on the handset and pressing **[SND]**, the call will be placed in a "hands free" mode; that is, your voice will be picked up by a microphone mounted in

the headliner of your BMW, and the called party's audio will be heard through your BMW's high fidelity speakers.

During a call, and during voice recognition operation, your AM/FM radio will mute.

Private Conversation



If you desire a private conversation, press the handset release button on the top of the eject box and pick up the handset. The called party will no longer be heard through the car's speakers, but only in the handset earpiece.

To return to a hands free call, press **[FCN]** followed by **[6]**. The handset display will show *Mute*. This will mute the handset microphone and also allow you to hang up the handset without ending the call. When the handset is in the eject box, the call will transfer to hands free mode.

NOTE **[6]** on the handset is also labeled "M" for *Mute*.

Receive a Call

When an incoming call is received by your BMW phone, the AM/FM radio will mute and the phone will audibly ring.

Either press the  Steering Wheel Button, the  MID Button, or press **[END]** on the handset to answer a call in the hands free mode. Press the handset release button on the top of the eject box and pick up the handset to answer a call in handset mode.

Any time a call goes unanswered, *Call* will appear in the handset display. Pressing **[CLR]** will remove this message and return your telephone to normal operation. You can not enter any digits on the handset until **[CLR]** is pressed.

Add an Alphabetic Tag to an Existing Phone Number

Recall the phone number that you wish to attach an alphabetic tag by pressing **[RCL]**, followed by the two-digit memory location.

Press **[STO]**, followed by the same two-digit memory location.

Follow the instructions as on page 18.

If a voice tag is already stored at the location you have just added an alphabetic tag to, you can keep the same voice tag by pressing **[HOLD]** at the "Directory name, please:" voice prompt.

Alphabetic Scrolling with the Handset

The Alphabetic Scrolling feature of your BMW cellular telephone handset allows you to scroll alphabetically through the 99 memory locations beginning at the name of your choice. The first name displayed will be the same one displayed the last time Alphabetic Scrolling was used.

Press **[NAME MENU]**. If you had previously placed a call to the name "Smith", the directory will begin at the name Smith.

Press **[FWD]** to scroll forward alphabetically through your stored names, or press **[BACK]** to scroll backward.

You can place a call to the name displayed by pressing **[SND]** on the handset.

You can also view the phone number associated with the name, by pressing **[RCL]**, **[RCL]**,

To exit Alphabetic Scrolling, press **[END]**.

If you wish to start the search at a specific letter, first press **[NAME MENU]**. Then, press a numeric key corresponding to the letter you wish to start your search at. The display will show the first name with that letter or the next closest letter.

Alphabetic Scrolling with the MID

Press TEL to place the MID into phone mode, then press the **[NAME]** soft key. The soft keys will now be replaced with names you have previously stored. Press **[LEFT]** or **[RIGHT]** to scroll through the names five at a time. When the name you want is displayed, press that soft key, then press **[CALL]** to place the call. If no alphabetic nametags have been stored, the MID screen will display No Names!

NOTE If the *Name* soft key is not shown, press the **[DOWN]** soft key until that screen is displayed.

Scrolling Through Phone Numbers with the Handset

Numeric memory scrolling can be performed from the handset.

You must press **[RCL]** followed by **[0]**, **[1]** or another memory location at which you want to start scrolling.

If Number Preferred is activated, which is the default, (see page 29), the alphabetic nametag you assigned to the phone number will be displayed, without the memory location number, but the alphabetic names will not be in alphabetic

order, as in alphabetic scrolling on the previous page.

If Number Preferred is not activated, the phone numbers will be displayed, along with the memory location number. The appearance of an apostrophe (') following the location number in this case confirms that you have enabled Memory Scrolling.

You can change from forward to backward scrolling by pressing **[FWD]** or **[BACK]**.

At any time you may place a call to the displayed number by pressing **[SND]**.

Memory Scrolling can be performed during a call. Pressing **[END]** while scrolling during a call extinguishes the apostrophe and cancels scrolling, but does not terminate the call.

To end a call when in memory scrolling, press **[END]** twice.

Scroll Through Phone Numbers with the MID

Press TEL to place the MID into telephone mode, then press the **Recall** soft key. The soft keys will now be replaced by digits and **Location Number?** will be displayed.

Enter the location number using the soft keys, then press to place the call. Or, press or to scroll through phone numbers by location. If no phone number was stored at that location, the MID screen will display *Location Empty!*.

NOTE If the *Recall* soft key is not shown, press the soft key until that screen is displayed.

Quick Dialing from the Handset

Enter the desired memory location (1-99), and press .

The call will be placed, however the dialed name/number will not appear in the display.

Memory Autoload

When storing a number into memory, you can automatically store numbers, alphabetic tags, and voice tags into the next free location by substituting for the two-digit memory location number. This is particularly useful if you normally scroll through memory alphabetically, in which case the actual memory location is not important.

In addition, you can store the phone number into the next available memory

location in a decade (10 locations) by substituting only the second digit of the phone number memory location with . Thus, pressing followed by , will store the phone number into the next free location in the range of 50 to 59. If the chosen decade is full, *Full* will appear in the display and the phone number will not be stored.

Signal Strength Meter (SSM)

The Signal Strength Meter (SSM) represents the relative signal strength level of the received signal to your phone. The SSM is displayed as a bar graph following the letter S at the left side of the handset and MID display, with each successive bar representing a stronger signal.

Any messages such as *Locked* which appear in the display will take priority over the SSM display, and the SSM will not be displayed in these cases.

The handset SSM can be disabled through the feature menu by selecting "signal off." See page 29 for details on turning off the SSM. If the SSM is turned off, the handset display will simply read *On*

at those times that SSM would normally be displayed.

To best utilize the SSM, you should *familiarize yourself with the relative signal strength levels and their associated call placement and call-in-progress qualities.*

To view the SSM on the MID, press *TEL* to place the MID into telephone mode, then press to switch the screen to the *SIGNAL* or *TIMER* display. If the *TIMER* is shown, press the *SIGNAL* soft key to display the SSM. Press to return to the standard MID screens.

NOTE *The SSM disable feature does not apply to the MID signal meter.*

Two System Registration

Your BMW phone is equipped with a feature which allows you to have two separate phone numbers from two cellular system operators programmed into your phone. Both will be designated as your home system, but are accessed separately. The two phone numbers may be in different cities, or may be on two different cellular systems in the same city.

your phone has only one number active at any given time. When one number is active, calls placed to your other number will be treated as if your phone was turned off.

Activation of this feature is done only at the time of initial installation of your phone. Please inform your installer if you wish to utilize this feature.

Press **[RCL]** followed by **[H↔]** to display the currently active phone number.

To operate with this phone number, simply press **[CLR]** at this point.

To select the other phone number, instead press **[STO]**. The original phone number will disappear from the display to confirm the switch and the new number will appear.

If you have programmed two numbers, a code will appear in the handset display soon after your phone is powered up to remind you which of the two systems is active, and whether that number is on a wireline ("B" type) or non wireline ("A" type) system (see page 9 for a description of wireline versus non wireline). This code consists of the letter "A" or "B" fol-

lowed by a number "1" or "2" to designate one of the two installed phone numbers.

Automatic Redial

If, during a call attempt, you hear either a Reorder or Intercept tone (see page 10) you are not able to place a call on your cellular system. Pressing **[SND]** at this time will initiate an automatic redial sequence.

Redial will show in the handset display, and the phone will automatically attempt to place the call for up to four minutes.

When the call attempt is successful, you will hear the ringing of the called party through the vehicle's speakers.

If the called party's line is busy, or the land line system is not able to complete the call, automatic redial will not work. Also, the automatic redial sequence will terminate when either the phone is turned off, the vehicle's ignition is turned off, or **[END]** is pressed.

Lock Your Telephone

Press **[FCN]**, followed by **[5]**. Note that **[5]** also has the letter "L" on it, for Lock. When your telephone is locked, calls cannot be placed or answered. The

phone will ring, however. You can answer after unlocking the phone.

Locked will appear in the handset display, and Phone Locked! will appear in the MID display when the phone has been locked.

Unlock Your Telephone

Enter your three-digit unlock code. If you make an error, press **[CLR]** and start over.

The default unlock code when the unit left the factory was **[1]**, **[2]**, **[3]**, but you may have changed it when the vehicle was purchased.

Change Volume

Three different audio signals can be independently adjusted for volume: alert (ringer) volume, speaker (hands free and button feedback tone) volume, and ear-piece volume.

A Volume Meter is displayed when you change any of these settings with the handset. The volume level is displayed as a bar graph following the letter V at the left side of the handset display, with each additional bar representing a higher volume setting.

Adjust the earpiece volume by pressing \oplus or \ominus (on the side of the handset) or \pm . Releasing and again pressing \pm will then lower the volume. The volume meter and a feedback tone will assist you in setting this volume.

Adjust the speaker volume by pressing \oplus or \ominus with the handset IN its cradle, or press \pm as for earpiece volume.

NOTE \pm will not change volume if the keypad is disabled. See page 33.

Adjust the ringer volume by pressing $\overline{\text{FCN}}$, followed by \oplus or \ominus .

During a hands free call you may also adjust speaker volume from the steering wheel volume switches labeled + and -, and from the MID with the volume control knob.

Speed Sensitive Volume Adjust

Your BMW telephone automatically adjusts its hands free speaker volume as your speed increases or decreases. Once your speed falls below approximately 45 MPH, the hands free volume will return to your original setting. Your handset earpiece volume and ringer volume are not affected by this feature.

Delete a Phone Number

Press $\overline{\text{CLR}}$, then press $\overline{\text{STO}}$, followed by the two digit location number you wish to clear. Press $\overline{\text{STO}}$ a second time at the Alpha prompt.

The phone will respond "Voice tag erased" if a voice tag was present.

Postscripting

You can add additional digits to recalled numbers simply by entering them from your keypad after recalling the number and before pressing $\overline{\text{SND}}$.

This feature applies only to numbers sent as part of placing an initial cellular phone call. If you are trying to access a service which requires DTMF tones (Touch Tones) after the call is placed (such as alternate long distance phone services or computerized banking services), this feature does not apply.

Entering Touch Tones® From Keypad or Memory

If you need to access services such as long-distance telephone services, voice mail, or system security codes, which require you to enter DTMF tones, you can

do this by simply entering these digits while in a call.

In addition, these DTMF tone sequences (typically a calling card, credit card, or PIN number) can be stored in a separate memory location and linked together.

To recall Touch Tone sequences from memory, press $\overline{\text{RCL}}$ followed by the memory location where the calling card or PIN number is stored, then press $\overline{\text{RCL}}$ again, followed by $\overline{\text{SND}}$.

Pause in Memory

Touch Tone sequences, as described in the last paragraph, can also be contained in a single memory location (up to a maximum of 32 digits) by a unique feature which permits the programming and memory storage of pauses between groups of numbers.

When recalled and sent from the handset, the telephone stops transmitting at the pause and waits for your response.

Create a Linked Sequence in a Single Memory Location

Enter the first group of numbers from the keypad or recall them from the memory

using **[RCL]**. Typically, this would be the access phone number to the long distance carrier or voice mail system.

If the alpha name tag appears, press **[RCL]** twice to display the number in that memory location. Insert a pause by pressing **[FCN]**, **[SND]**. **⓪** will appear where the pause is inserted.

Enter the next group of numbers, typically the PIN or access code for the number you will be calling. If there is to be a third group of numbers, press **[FCN]**, **[SND]** again to add a second pause.

Repeat this sequence for as many groups as you wish up to a maximum of 32 digits. Each pause occupies a digit.

If you wish, you may store this complete sequence in a memory location as described on page 18.

Place a Linked Call

Create or recall the linked sequence, as above.

Press **[SND]** to place a call to the first group of numbers entered prior to the first pause.

After waiting for the system response (which will vary by system), press **[RCL]**, **[SND]**, to send the second group of numbers as DTMF tones.

Repeat the sequence **[RCL]**, **[SND]**, if needed, until all digit groups are sent.

NOTE This feature only operates from the handset.

Hookswitch Flash

Your cellular service provider may offer custom calling features such as call forwarding, three way calling, etc. Many times, these features require the use of hookswitch flash to activate.

To perform a hookswitch flash, press **[SND]** during a call.

Recall the Last Number Used

Press **[RCL]**, followed by location **[⓪]**, **[⓪]** to recall the last number used to actually place a call.

Press **[SND]** to then place a new call to this number.

NOTE You cannot perform Quick Dialing with this feature. The sequence **[⓪]**, or

[⓪], **[⓪]**, **[SND]**, will place a call to a telephone operator.

In addition, you can place a call to one of the last ten numbers used via the MID. First, press TEL to place the MID into telephone mode, then press the Number soft key. Do not enter any digits, but instead press either the **⓪** or **⓪** scroll keys to display the last ten numbers called. Press **☛** to place a call to the displayed number.

NOTE If the Number soft key is not shown, press the **▽** soft key until that screen is displayed.

Recall Last Number Entered

Whenever you enter digits on the handset, those digits, in addition to being displayed on the handset display, are stored in a "scratchpad" location in the phone. As long as you have not pressed **[CLR]**, you can recall these scratchpad digits, even if they are no longer displayed or if the phone was turned off.

Press **[RCL]** to recall the scratchpad contents.

Press **[SND]** to place a call to that number.

If the number is longer than 14 digits, only the first 10 will be displayed upon recall. Another press of **[RCL]** will display the remainder of the number.

Display Your Own Phone Number

Press **[RCL]**, followed by **[MEMO]** to display the telephone number of your BMW cellular telephone.

Enter a Temporary Phone Number on the MID

First, press **TEL** to place the MID into telephone mode. Then press the **Note** soft key. You may enter up to 32 digits, then press the **Set** soft key to save the digits. The digits you enter will be saved, even if your BMW is turned off. Clear this temporary number by pressing and holding the **Clr** soft key.

Feature Menu

A number of the other features of your BMW cellular phone can be accessed without remembering a specific key sequence through a feature menu. The menu permits review, selection, and cancellation of most of those features. The following chart shows all features available through the menu and lists their

numbers and the pages where detailed information can be found.

Menu # Page

Group 1 (General)

Number Preference	12	29
Status Review	13	28
Theft Alarm	14	29
Automatic Lock	15	29
Future	16	Note 2
Future	17	Note 2
Manual Peripheral Mode	18	Note 3
Signal Strength		
Meter Disable	19	29

Group 2 (Call)

Multiple Key Answer	20	29
Call Screening	21	29
Delayed Call Placement	22	29
Selectable System		
Registration	23	30
VOX	24	Note 3
Extended Talk Time	25	Note 3
Automatic Answer	26	30
Display System ID (SID)	27	30
Auto Hands Free	28	Note 3
Emergency Disable	29	Note 3

Group 3 (Tones)

Vibrate Only	30	Note 3
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Silent Ring	31	30
Silent Keypad	32	30
Silent Scratch Pad	33	30
Long Tone DTMF	34	30

Group 4 (Timers)

Repeat Audible	41	31
One-Time Audible	42	31
Clear Reactable	43	31
One-Minute Beep	44	31
Display Individual	45	31
Display Resettable	46	31
Display Cumulative	47	31
Automatic Display	48	31

Group 5 (Secure) (see Note 4)

Change Service Level	51	32
Master Reset	52	32
Master Clear	53	32
Change Unlock Code	54	32
Display Unlock Code	55	32

Group 9 (Options)

Future	90	Note 5
Enable Keypad	91	33
Voice Sub-Menu	99	35

NOTE 1 Groups 6, 7, and 8 do not exist.

NOTE 2 Features marked "future", are not supported.

NOTE 3 These features are specific to portable telephones and are not supported on the CMT 3000VR.

NOTE 4 To access the features in Menu 5 (Secure), you must enter the six-digit security code assigned when the vehicle was purchased.

NOTE 5 This feature transfers all phone numbers and names to the MID interface (located below the handset) in the event of a service replacement. This feature is not intended for end users.

Accessing Menu Features

You may access features through the menu by either of the following methods:

Direct Access

Press **[FCN]**, then **[NAME MENU]**. The phone will display **Menu**.

Enter the two-digit feature number from the table on this page or review (scroll) the menu with **[<*>]** or **[*>]**.

Group Review

To access a menu group, press its number (1-5) or review (scroll) the choices using **[<*>]** or **[*>]**. The display shows the first of a

two-digit feature number and the name of this menu group (General, Call Placement, Tones, Timers, Secure, or Special).

Once the desired group is displayed, access a specific feature by entering its second digit, or press **[STD]** and scroll again with the **[<*>]** or **[*>]**. The display will indicate the feature's number, status, and name.

Selecting and Cancelling Menu Features
Whenever a feature is displayed, its status is shown as: **ON** (selected), or **OFF** (canceled).

To select, press **[STD]**.

To cancel, press **[CLR]**.

To exit the menu, press **[END]**.

Feature Status Review

When the telephone is turned on, **o** in the display indicates that one or more features have been selected or changed from their standard settings. Status review permits you to scroll through these for your reference.

To review status, press **[FCN]**, **[NAME MENU]**, **[1]**, **[3]**, **[STD]**. Press **[*>]** to scroll through messages.

To end the review, press **[END]**.

Status Messages

During status review, features selected or changed are indicated by the following messages:

Msg.	Description and Feature #	Pg.
Alt Off	Alert Off (Silent Ringer) 31	30
Answer	Automatic Answer 26	30
AutoLoc	Automatic Lock 15	29
Beep	One-Minute Beep Timer 44	31
Enter 000000	Roam Characteristics 23	33
FBt Off	Feedback Tones Off 32	30
Home	Roam Characteristics 23	33
LDTMF	Long Tone DTMF 34	30
Level 1-7	Call Restrictions 51	32
Number	Memory Recall Preference 12	29
Pr Beep	Programmable Audible Timer 42	31
ScorrA	Roam Characteristics 23	33
ScorrB	Roam Characteristics 23	33
ScorrC	Roam Characteristics 23	33
ScorrD	Roam Characteristics 23	33
Screen	Incoming Call Screening 21	28
Std	Features set to factory default.	-
StdAE	Roam Characteristics 23	33
StdBF	Roam Characteristics 23	33
Timer	Automatic Display Timer 48	31
TT Off	Silent Scratch Pad 33	30

Number Preferred

When activated, Number Preferred shows the phone number stored in memory when the contents of a memory location are recalled, instead of an alphabetic tag (if an alphabetic tag had been stored along with the phone number).

To see the number first, press **FCN**, **NAME MENU**, **1**, **2**, **STD**.

To see the name first, press **FCN**, **NAME MENU**, **1**, **2**, **CLR**.

In any case, if no name is stored, only the number will appear.

Theft Alarm

The theft alarm, when activated, can be programmed to place an alerting call should the unit be turned on by an unauthorized person. If the three-digit unlock code is not entered within 30 seconds, a call is placed to the programmed number and a tone signal is transmitted which represents a siren. If the unit receives a busy signal it will repeat the call automatically.

To activate the theft alarm, press **FCN**, **NAME MENU**, **1**, **4**, **STD**. Press **END**. The unit will display **Armed**.

Enter the phone number to be called or recall a number from memory.

Turn off the telephone by pressing **PWR**, or simply turn off the vehicle.

To disarm theft alarm, turn on the unit and enter the three-digit unlock code within 30 seconds.

If you inadvertently trip the theft alarm and the alarm call is placed, you can stop the alarm by entering the unlock code.

Automatic Lock

This feature automatically locks the unit each time it is turned off.

To select, press **FCN**, **NAME MENU**, **1**, **5**, **STD**.

To cancel, press **FCN**, **NAME MENU**, **1**, **5**, **CLR**.

Signal Strength Meter Disable

The Signal Strength Meter is enabled by default. Use the Signal Meter disable feature to prevent the Signal Meter from being displayed on your handset. "ON" is displayed in its place.

To disable, press **FCN**, **NAME MENU**, **1**, **9**, **STD**.

To enable, press **FCN**, **NAME MENU**, **1**, **9**, **CLR**.

Multiple Key Answer

This feature allows you to answer calls by pressing any digit key on the handset.

To select, press **FCN**, **NAME MENU**, **2**, **0**, **STD**.

To cancel, press **FCN**, **NAME MENU**, **2**, **0**, **CLR**.

Incoming Call Screening

Use this feature if you prefer not to receive calls but wish to be informed of the attempt. If your cellular service offers "No-Answer Transfer," the calls received while this feature is in effect can be routed to a secretary or answering machine.

When selected, incoming calls are signaled by several short bursts of tone and **Call** in the display. Without "No-Answer Transfer," the caller will receive the "Not in Service" recording.

As a reminder that Incoming Call Screening is selected, the unit will sound a special tone burst each time it is turned on.

To select, press **FCN**, **NAME MENU**, **2**, **1**, **STD**.

To cancel, press **FCN**, **NAME MENU**, **2**, **1**, **CLR**.

Delayed Call Placement

You may program the telephone to place a call up to 99 minutes later. To use:

Enter the number you wish called, or recall it from memory.

Press **FCN**, **NAME MENU**, **2**, **2**, **STO**.

Enter the number of minutes (01-99) you wish the call delayed.

NOTE You must enter minutes 1-9 as a two-digit number (01-09). If the feature was already selected, the previously entered time is shown.

WARNING The phone number entered is stored in memory location 99 and replaces any previous entry.

To cancel, press **FCN**, **NAME MENU**, **2**, **2**, **CLR**.

Automatic Answer

This feature permits you to answer calls without pressing **SND**. When your phone receives a call it will ring twice. After the second ring, pause, then speak into the hands free microphone located in the headliner.

To select, press **FCN**, **NAME MENU**, **2**, **6**, **STO**.

To cancel, press **FCN**, **NAME MENU**, **2**, **6**, **CLR**.

NOTE We suggest you not select the Automatic Answer and Silent Ringer features simultaneously, since incoming

calls will then be announced only by *Call* in the display.

Display Current System ID (SID)

To view the current SID being accessed by your telephone, press **FCN**, **NAME MENU**, **2**, **7**, **STO**.

The SID will be displayed as a five digit number. If the No Svc indicator is lit, the display will read *****.

Silent Ringer

The telephone's ring tones may be silenced where these could prove a distraction as during a business conference, etc. In this case, incoming calls are announced only by the message *Call* in the display and the rapidly flashing power indicator.

We suggest you do not select the Silent Ringer and Automatic Answer features simultaneously, since the unit will then answer a call without any audible indication.

To silence, press **FCN**, **NAME MENU**, **3**, **1**, **STO**.

To cancel, press **FCN**, **NAME MENU**, **3**, **1**, **CLR**.

Silent Keypad

You may silence the tones used to indicate keypad depressions.

To silence, press **FCN**, **NAME MENU**, **3**, **2**, **STO**.

To cancel, press **FCN**, **NAME MENU**, **3**, **2**, **CLR**.

Silent Scratch Pad

You may silence the transmission of DTMF (Touch Tones™) both during phone number entry and over the air when you press number keys during a call. This feature is useful if you do not want DTMF tones to be heard and possibly recorded by another person.

To silence, press **FCN**, **NAME MENU**, **3**, **3**, **STO**.

To cancel, press **FCN**, **NAME MENU**, **3**, **3**, **CLR**.

Long Tone DTMF Signals

Some devices, such as answering machines, require access tones longer than the standard DTMF signals which the phone sends (about 1/10 second in length). With this feature, tones are sent for as long as the key is depressed.

To select, press **FCN**, **NAME MENU**, **3**, **4**, **STO**.

To cancel, press **FCN**, **NAME MENU**, **3**, **4**, **CLR**.

Call Timers

Call timers provide a useful means of monitoring the air-time spent in conversation. Several of these operate in the background and can be displayed at any time. Others offer beep tones heard only on your side of the conversation.

Each timer begins counting as a cellular channel is assigned, or when the phone rings to signal an incoming call. If an incoming call is not answered, the timers revert to their previous values.

Individual Call Timer

Accumulates the air-time of the unit in minutes and seconds for each call. This timer automatically resets before a new call is placed and when power is turned off.

To display, press **[FCN]**, **[NAME MENU]**, **[4 CH.]**, **[5 SE.]**, **[STD]**, or press **[RCL]**, **[⇄]**, **[⇄]**.

You can also display this timer on the MID. Press TEL to place the MID into phone mode. Then press the $\nabla \nabla$ soft key to switch the screen to the **SIGNAL** or **TIMER** display. If the signal meter is shown, press the **TIMER** soft key to display the individual call timer. Press \triangleleft to return to the standard MID screens.

Automatic Display Timer

Automatically displays the accumulated time in minutes and seconds during and after each call.

To select, press **[FCN]**, **[NAME MENU]**, **[4 CH.]**, **[8 DIV.]**, **[STD]**.

To cancel, press **[FCN]**, **[NAME MENU]**, **[4 CH.]**, **[8 DIV.]**, **[CLR]**.

Resettable Timer

Accumulates the unit's air-time in minutes from the point at which it is reset. You may wish to reset this timer to correspond to your monthly billing cycle.

To display, press **[FCN]**, **[NAME MENU]**, **[4 CH.]**, **[6 MIN.]**, **[STD]**, or press **[RCL]**, **[⇄]**, **[⇄]**, **[⇄]**.

To reset, press **[FCN]**, **[NAME MENU]**, **[4 CH.]**, **[3 SET.]**, **[STD]**.

Cumulative Timer

A non-resettable timer which accumulates the unit's total air-time in minutes, starting with initial factory testing.

To display, press **[FCN]**, **[NAME MENU]**, **[4 CH.]**, **[7 TST.]**, **[STD]**, or press **[RCL]**, **[⇄]**, **[⇄]**, **[⇄]**, **[⇄]**.

One-Minute Beep

Provides a tone ten seconds before the end of each minute during calls.

To select, press **[FCN]**, **[NAME MENU]**, **[4 CH.]**, **[4 MIN.]**, **[STD]**.

To cancel, press **[FCN]**, **[NAME MENU]**, **[4 CH.]**, **[4 MIN.]**, **[CLR]**.

Programmable Audible Timers

Two methods are available to signal during calls at time intervals of your choice. These intervals can range from 11 to 999 seconds, and must be entered as a three-digit number, (011 to 999).

Once programmed, the intervals can be changed simply by following the program sequence and substituting your new time interval.

One-Time Audible Timer:

This timer sounds a tone once during each call at the selected interval.

To select, press **[FCN]**, **[NAME MENU]**, **[4 CH.]**, **[2 INT.]**, **[STD]**. Then, enter a three-digit number (011 to 999).

To cancel, press **[FCN]**, **[NAME MENU]**, **[4 CH.]**, **[2 INT.]**, **[CLR]**.

Repeat Audible Timer:

This timer repeats the tone during calls ten seconds before the intervals (in seconds) you selected are reached.

To select, press **[FCN]**, **[NAME MENU]**, **[4 CH.]**, **[1 REP.]**, **[STD]**. Then, enter three digit number (011 to 999).

To cancel, press **FCN**, **NAME MENU**, **4**, **1**, **CLR**.

Change Your Three-digit Unlock Code

Press **FCN**, **NAME MENU**, **5**, **4**, **STD**. Enter your six-digit security code. Note that this is always displayed as *********.

Enter the new desired three-digit unlock code. The new unlock code will be displayed.

Display Your Unlock Code

Press **FCN**, **NAME MENU**, **5**, **5**, **STD**. Enter your six-digit security code. Your unlock code will be displayed.

Service Levels (Call Restrictions)

Your telephone can be set to restrict call placement (as when lending the unit to another person). Using the six-digit security code, you may select one of seven levels of restriction described as follows:

Service Level 1

Phone will place calls only from memory locations 1, 2, or 3. No keypad dialing. No memory storage. If locations 1, 2, and 3 are cleared, no outgoing calls can be made.

Service Level 2

Phone will place calls from all memory locations. No keypad dialing. No memory change or storage.

Service Level 3

Keypad dialing only. No memory access.

Service Level 4

No restrictions (standard setting).

Service Level 5

Seven digit (local) dining only.

Service Level 6

Full keypad and memory dialling. No storage to memory locations 1-10. Memory cannot be changed.

Service Level 7

Phone will place calls from up to five selected memory blocks. No memory storage. No access to alphabetic memory.

Select a Service Level

Press **FCN**, **NAME MENU**, **5**, **1**, **STD**. Enter your six-digit security code.

Enter the number of the service level you wish to use (1 through 7).

The unit displays **Level** and the number selected. If you choose level 7, the display prompts you to enter the numbers of up to five memory blocks you wish accessible. (0 = locations 1-9, 1 = 10-19, etc.) If you enter fewer than five numbers, you must press **STD** after the last entry.

To change the unit to unrestricted operation, use the procedure above and enter service level 4.

With restricted service levels set, the corresponding features will not work with the MID or steering wheel controls.

Master Reset, Master Clear

These features allow you to conveniently reset most or all the user selectable options to their standard settings.

Master Reset will perform these functions:

- Disable the keypad
- Return System Type to standard
- Reset Service Level to level #4
- Cancel Incoming Call Screening
- Cancel Automatic Lock
- Reinstate Keypad and Ring tones
- Reinstate the GGM

- Cancel One-Minute Beep
- Cancel Programmable Audible Timer
- Cancel Automatic Display Timer
- Cancel Silent Scratch Pad feature
- Cancel Number Preference feature
- Cancel Automatic Answer feature
- Cancel Long Tone DTMF feature
- Cancel Theft Alarm
- Cancel Delayed Call Placement

To activate, press **[FCN]**, **[NAME MENU]**, **[5]**, **[2]**, **[STO]**. Then, enter the six-digit security number.

Master Clear performs all the functions of Master Reset above, plus:

- Clears Resettable Call Timer
- Clears all Memory locations
- Clears all Voice Tags

To activate, press **[FCN]**, **[NAME MENU]**, **[5]**, **[3]**, **[STO]**. Then, enter the six-digit security number.

With either of these operations, *Busy* may display after the security code is entered. You must wait for this to clear before you may operate the unit further. It may take several minutes.

Keypad Enable

Your BMW telephone is programmed at the factory to have the handset's keypad disabled whenever it is stored in the eject box. This is to prevent accidental key presses (which may originate a call) by an elbow, etc. resting on the armrest.

To re-enable the keypad, remove the handset from the eject box, then press

[FCN], **[NAME MENU]**, **[9]**, **[1]**, **[STO]**.

To disable the keypad again, press **[FCN]**, **[NAME MENU]**, **[9]**, **[1]**, **[CLR]**.

Change Your Phone's Roam Characteristics (Selectable System Registration)

As explained on page 8, your phone's home system is either an "A" or a "B" type system. When you are roaming in another system, your phone will normally search for a system that is the same type ("A" or "B") as your home system. If it finds such a system, it will roam on it and your *Roam* indicator will light steadily. If it cannot find a home type system, the phone will then search for a non home type system. If it finds one, you will roam on it and the *Roam* indicator will flash. If the phone cannot find

either type system, the *No Svc* indicator will light, and you will not be able to place calls.

You usually will not want to, but you can change the sequence the phone follows in looking for a system while roaming. You can invert the search sequence, causing the phone to search first for a non home type system before searching for a home type system.

You can also program your phone to search for your home system only, effectively not allowing you to roam at all.

Finally, you can search for only "A" type systems or only "B" type systems.

To change your phone's roam characteristics, press **[RCL]** followed by **[<*>]**.

If you haven't previously changed the setting, the phone will display either *Std AB* or *Std BA*, depending upon whether your home system is "A" type or "B" type.

A second press of **[<*>]** will invert the search characteristics.

The display will read either *Scan BA* or *Scan AB*, depending on your home system type.

The third press of **[H☞]** will force your phone to scan your home system only. **Home** will be displayed.

The fourth time you press **[H☞]**, you will cause the phone to scan "A" type systems only, and the fifth time will cause you to scan "B" type systems only. **Scan A** or **Scan B** will be displayed.

To select one of these alternatives, press **[STO]** when your desired choice appears in the display.

Alternately, you can access this feature by pressing **[CON]**, **[MENU]**, **[2]**, **[2]**, **[STO]**.

Using Your Phone Without Your Vehicle's Keys

To turn on your phone without your BMW's keys, simply press **[rwn]** and unlock your phone (see page 24).

As a safety feature the phone always locks when powered without the vehicle's keys.

If you do not unlock the phone after a few seconds, the phone will automatically turn off to prevent unauthorized usage and to conserve your vehicle's battery.

Power Saving Features

If your phone is left on and your vehicle's ignition is off, the display will blank and backlighting will turn off after a few seconds after pressing a button. Pressing any button will turn the display on again.

Also, if you leave the phone on for more than four hours, the phone will turn off.

More About Voice Recognition

Voice recognition provides for the safest possible operation of your BMW phone. Using the handset's **[☞*]** and **[H☞]**, you can place a call without taking your eyes off the road. In addition, the voice recognition feature of your phone removes much of the background road and fan noise which may be heard by the people you call.

Voice recognition allows you to store voice tags for any ten of the phone numbers you have stored. Typically, you will want to store voice tags for the ten people you call the most frequently.

Use a normal, calm tone of voice when you store a voice tag. Do not store voice tags when the vehicle is in motion, since the irregular background noise inhibits

proper storage, making recognition more difficult. Also, turn the fan speed to low, and close all windows and the sunroof. Whenever there is too much background noise for storage, the phone will respond with "Sorry, too noisy to train", instead of "Directory name, please."

Make your voice tags as distinct as possible. If you have both "Rob" and "Dob" stored, it is very possible the phone will recognize the wrong voice tag, thus placing a call to the wrong person. Use first and last names, or two syllable names, if possible.

The message "Memory full" indicates that you cannot store any more spoken names. This may happen, even if the limit of 10 names has not been reached because some of the stored names are longer than usual.

If, when placing a call, the phone does not hear a response to "Name, please", you will hear "Ready", and no call will be placed.

If the phone cannot match the name you are saying with any stored names, you will hear "Again, please" or "Repeat, please." Repeat the name, or press **[END]** to start over. If the phone cannot match

the name after three attempts, you will hear "Name not recognized."

If you speak too softly, the phone will respond with "Louder, please."

If you have not stored any voice tags in memory but try to place a call with voice recognition, the phone will respond with "Directory empty."

If, in placing a call, you get a reorder or intercept tone, the phone will speak "Please try again" after a couple of seconds, then terminate the call automatically.

Storing a Phone Number Without a Voice Tag

If you wish to store a phone number, but do not want a voice tag, press **[END]** after hearing the "Directory name, please" prompt. You do not need to press **[END]** if the phone responds "Directory full."

Changing a Phone Number Without Changing the Voice Tag

If you need to change a phone number for a person without changing the voice tag attached to it, enter the new phone number and alphabetic tag, then press

[STO], followed by the memory location number.

When the phone prompts with "Directory name, please", press **[STO]**. You will hear the voice tags already stored.

Voice Recognition Feature Menu

There is a feature menu for voice caller which allows you to change two options, voice tag scroll, and call confirmation message selection

To access the menu, press **[FCN]**, **[MENU]**, **[9]**, **[9]**, **[STO]**. The handset display will indicate **Scroll**. Press **[SND]** to select the Voice Tag Scroll feature, or press **[STO]** or **[*]** to select the call confirmation message feature from the menu.

Press **[END]** to exit the menu.

NOTE When in the voice menu, a call will not be placed when **[SND]** is pressed.

Voice Tag Scroll

When this menu feature is selected, the phone number of the first (and subsequent) memory location with a voice tag is displayed in the handset display, and the voice tag is spoken.

Press **[STO]** to scroll forward to the next memory location with a voice tag, or press **[*]** to scroll backward.

Press **[SND]** to place a call to that number.

Press **[END]** to exit the menu and terminate voice scrolling.

Call Confirmation Message Selection

Typically, when you place a call, the phone responds with "Thank you" when the voice tag is recognized. You can change this response to a simple BEEP sound by selecting this menu feature.

Press **[SND]** to alternate between the BEEP reply and "Thank you" reply.

Press **[END]** to exit the menu.

**Memory Location
Directory**

	Name	Number						
			15	_____	_____	32	_____	_____
			16	_____	_____	33	_____	_____
			17	_____	_____	34	_____	_____
1	_____	_____	18	_____	_____	35	_____	_____
2	_____	_____	19	_____	_____	36	_____	_____
3	_____	_____	20	_____	_____	37	_____	_____
4	_____	_____	21	_____	_____	38	_____	_____
5	_____	_____	22	_____	_____	39	_____	_____
6	_____	_____	23	_____	_____	40	_____	_____
7	_____	_____	24	_____	_____	41	_____	_____
8	_____	_____	25	_____	_____	42	_____	_____
9	_____	_____	26	_____	_____	43	_____	_____
10	_____	_____	27	_____	_____	44	_____	_____
11	_____	_____	28	_____	_____	45	_____	_____
12	_____	_____	29	_____	_____	46	_____	_____
13	_____	_____	30	_____	_____	47	_____	_____
14	_____	_____	31	_____	_____	48	_____	_____

49	_____	_____	66	_____	_____	83	_____	_____
50	_____	_____	67	_____	_____	84	_____	_____
51	_____	_____	68	_____	_____	85	_____	_____
52	_____	_____	69	_____	_____	86	_____	_____
53	_____	_____	70	_____	_____	87	_____	_____
54	_____	_____	71	_____	_____	88	_____	_____
55	_____	_____	72	_____	_____	89	_____	_____
56	_____	_____	73	_____	_____	90	_____	_____
57	_____	_____	74	_____	_____	91	_____	_____
58	_____	_____	75	_____	_____	92	_____	_____
59	_____	_____	76	_____	_____	93	_____	_____
60	_____	_____	77	_____	_____	94	_____	_____
61	_____	_____	78	_____	_____	95	_____	_____
62	_____	_____	79	_____	_____	96	_____	_____
63	_____	_____	80	_____	_____	97	_____	_____
64	_____	_____	81	_____	_____	98	_____	_____
65	_____	_____	82	_____	_____	99	_____	_____

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BMW continually strives to offer you the latest equipment and technological innovations for your new 7-series. In light of this, we have added several features to the CMT3000VR cellular phone system which will add to your driving enjoyment. This manual update describes these enhancements, along with page numbers referenced in the original manual.

Hands Free System and Microphone Muting

Your new BMW is equipped with the best hands free speaker-phone system available today. With this system, you can place and receive calls without removing your eyes from the road or your hands from the steering wheel.

It includes active noise reduction system to remove noise so the person you are calling (known as the "land side") can hear your voice loud and clear. It also includes a switching feature to reduce the noise you hear when the person on the land side is not speaking.

In some situations (soft music from the land side, soft speech with background noise from the land side, etc.), the hands free switching circuitry can be fooled into

reducing the land side volume when you may not want it to. In these cases, you can simply mute the hands free microphone, which will force the land side back to full volume. Unmute when you wish to speak.

To mute, press **FCN**, **5**. To unmute, repeat the same key sequence.

Voice Recognition Activation with Handset Disabled

You may activate voice recognition with **☎** and **☎** on the handset even when the keypad is disabled, contrary to the information on page 19 of the manual.

Steering Wheel Control Activation of Voice Recognition

In addition to using **☎** or **☎** to place a call using voice recognition (page 19), you can also press and hold **☎** on the steering wheel for about a second or until the phone responds with "Name, please".

Once you have spoken a stored voice tag and the phone responds "Thank you", the call will be placed. A press and release of **☎** will end the call.




NOTE Activation of Voice Recognition is only applicable when the handset is in the eject box.

Coordination of MID and Steering Wheel Control Operation



Your manual states on page 18 that the MID, Steering Wheel Controls, and handset operate independently as separate controllers of the phone. Under this mode of operation, phone numbers or names displayed on the MID were not accessible to **☎** on the Steering Wheel, and vice versa. Since the MID and Steering Wheel Controls are often used together to place and receive calls, their operation is now more closely linked.

Whenever you enter or recall a phone number or recall a name via the MID's soft keys, the number or name recalled is displayed on the MID's dot matrix display. You may now press **☎** on either the MID or Steering Wheel to call that number.


If you press **☎** on the Steering Wheel, the name or number display will also shift to the instrument cluster display.


When you scroll through names or numbers with the Steering Wheel  or  keys and press  on the MID to place the call, the name or number will remain in the instrument cluster display and the call will be placed.


Calling Linked Sequences from the MID


As described on pages 25-26, you may add pauses in memory with your handset using the ,  sequence. These sequences of phone number, PIN code, etc., can then be dialed from the handset as described on page 26.

You may now also dial a linked sequence using the MID or Steering Wheel Controls.

Simply recall the memory location containing the linked sequence by any of the methods described on pages 20-22 and press either  to place the call.

Each subsequent press of  will send the next group of numbers as Touch Tones[®] after the pause (□).

After the last group has been sent,  becomes an END key and will end the call.

NOTE *If you wish to end the call before all digit groups have been sent, you must press  on the handset.*

BMW Telephone Quick Reference Card

Handset

① Photo Sensor

Senses the light level in your BMW and adjusts the display and keypad brightness. Works in conjunction with the vehicle's dimmer control when the lights are on.

② Status Indicators

Power On Dot (green) – Illuminates whenever the phone is on.

In Use – Illuminates from the time a call is initiated or answered until the call is terminated.

No Svc (No Service) – Illuminates when the unit is out of range of the cellular system. Calls cannot be placed or received.

Roam – Illuminates when the unit is within range of a cellular system other than its home system.

③ Dialed Number And Message Display

Provides a visual indication of telephone numbers and messages associated with mobile telephone service.

④ Function Keys

RCL Press to recall and display telephone numbers stored in memory. Also, press to display the last number entered if display has been blanked.

END Press to activate the alphabetic scrolling feature. Press **END** after **FCN** to activate the menu feature.

STO Press to store telephone numbers into any of the memory locations.

END Press to terminate call. Also terminates certain function sequences.

FCN Used in combination with other buttons for specific user programmed operations.

CLR Press and release to clear the last digit entered. Press and hold to clear the display in the event of an error (does not affect numbers stored in memory).

SND Press to initiate a call to the entered telephone number or to answer a call. Press for switch hook flash when a call is in process.

PWR Press to turn on. Press again to turn off.

Speaker Press to change speaker volume in hands free. (In-cradle keypad operation must be enabled; see page 33.)

⑤ Numeric Keypad

Used to enter telephone numbers. Numbers are entered prior to initiating call and can be used during call for services requiring DTMF tones. See page 30. Also:

Left Arrow, **Right Arrow** Press to scroll backward and forward through the menu choices or alphabetic directory. Press and hold either key to activate Voice Recognition.

⑥ Volume Buttons

Repeatedly pressing or holding the volume button will either increase or decrease sound level of received party audio or confirmation tones. See page 24.



Multi Information Display (MID)


① Scroll Keys

Scroll through most frequently used phone numbers/names (see page 21).

② Soft Keys

Show either names to call from most frequently used list or functions to perform such as dialing, recalling by name, etc.

③ Telephone Button

Press  to place or end a call. Press TEL to put the MID into telephone mode.

④ Volume Control Knob

See page 23.

⑤ Status Indicators

In Use (green), *No Service* (red), *Roam* (yellow).



Steering Wheel Controls

① Scroll Up Button

Scroll up through alphabetic name-tags (or phone numbers) previously stored.

② Hands Free Volume Button

Adjust hands free volume in a call.

③ Scroll Down Button

Scroll down through alphabetic name-tags (or phone numbers) previously stored.

④ Radio/Telephone Button

Switches between Radio and Telephone mode.

⑤ Call Control Button

Press to place or end a call.

