

EXHIBIT 9
INSTRUCTION MANUAL

INTERTEK TESTING SERVICES

9.0 Instruction Manual

Attached is a preliminary copy of the Instruction Manual.

Please note that the required FCC Information to the User can be found on this manual.

This manual will be provided to the end-user with each unit sold/leased in the United States.

PLEASE READ IMPORTANT SAFETY INSTRUCTIONS BEFORE USE.

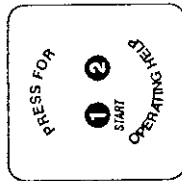
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You have purchased a 25-Channel Cordless Telephone with an All Digital Answering System that has been manufactured to the highest standards of **SOUTHWESTERN BELL FREEDOM PHONE**® Retail Sales. Its "DIGICLEAR PLUS™" circuitry combines noise filtering with state of the art technology that reduces background noise from your telephone conversations. Special compander circuitry compresses, then expands, the transmitted signal to enhance clean, clear audio.

BEFORE INSTALLING AND OPERATING THIS TELEPHONE, IT IS VERY IMPORTANT THAT YOU READ THIS OWNER'S MANUAL.

The FF680 has been specially designed to be as easy to use as possible:

- One of a kind VOICE HELP GUIDE* provides answers to the most frequently asked questions at a touch of a button.



* Patent Pending

- User friendly VOICE MENU walks you step-by-step through set-up, operation, and remote access.

IMPORTANT SAFETY INSTRUCTIONS

BEFORE USING YOUR TELEPHONE EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK AND INJURY TO PERSONS, INCLUDING THE FOLLOWING:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the product.
3. Unplug this product from the wall telephone jack and power outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product near water: for example, near a bathtub, wash bowl, kitchen sink, laundry tub, swimming pool, or in a wet basement.
5. Do not place this product on an unstable cart, stand or table. The product may fall, causing serious damage.
6. Slots or openings in the cabinet and the back and bottom are provided for ventilation, to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, or other similar surface. This product should never be placed near or over a radiator or heat register.
7. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not place this product where the cord will be damaged by persons stepping on it.
9. Do not overload wall outlets and extension cords, as this can result in fire or electric shock.
10. Never push objects of any kind into this product through cabinet slots, as they may touch dangerous voltage points or short out parts. This could result in fire or electric shock. Never spill liquid of any kind on the product.
11. To reduce the risk of electric shock, do not disassemble this product. Instead, when service or repair work is required, take it to a qualified service technician. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.
12. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power supply cord or plug is damaged or frayed.
 - b. If liquid has been spilled into the product.
 - c. If the product has been exposed to rain or water.
 - d. If the product does not operate normally and proper operating instructions have been followed, adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - e. If the product has been dropped or the cabinet has been damaged.
 - f. If the product exhibits a distinct change in performance.
13. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
14. Do not use the telephone to report a gas leak in the vicinity of the leak.

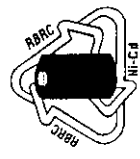
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Southwestern Bell Freedom Phone FF680 Cordless Telephone

Safety Instructions for Batteries

Handset Battery Pack

CAUTION: Use only a Southwestern Bell Freedom Phone® approved battery pack in the handset of your FF680 Cordless Telephone. To reduce the risk of fire or injury, always do the following when replacing, discarding or charging batteries. When handling the batteries, be careful not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conducting material may overheat and cause burns.



CONTAINS NICKEL CADMIUM BATTERY. MUST BE RECYCLED OR DISPOSED OF PROPERLY. DO NOT DISPOSE OF IN MUNICIPAL WASTE.

- Use only the following type and size batteries in the cordless phone:
Self-contained 3-cell Nickel-Cadmium rechargeable battery supply,
GP30 AAK 3BMX 300mAhR 3.6V
JB30 AAK 3BMXC 300mAhR 3.6V
JB Energy (HK) Ltd.
 - Do not dispose of the battery pack in a fire. The cell may explode. Check with local codes for possible special disposal instructions.
 - Do not attempt to open or mutilate the battery pack. The chemicals are dangerous and may cause damage to the eyes or skin, and may be toxic if swallowed.
 - Follow the charge instructions outlined in this manual. (See page 12)
- The RBC™ Seal on the nickel-cadmium (Ni-Cd) battery indicates that Southwestern Bell Freedom Phone® Retail Sales is voluntarily participating in an industry program to collect and recycle these batteries at the end of their useful life, when taken out of service within the United States. The RBC™ program provides a convenient alternative to placing spent nickel-cadmium batteries into the trash or municipal waste stream, which is illegal in some areas.
- Southwestern Bell Freedom Phone® Retail Sales' payments to RBC™ makes it easy for you to drop off the spent battery (or battery pack) at local retailers of replacement nickel-cadmium batteries. You may also contact your local recycling center for information on where to return the spent battery (or call the toll-free RBC™ information line at 1-800-8BATTERY). Our involvement in this program is part of our commitment in protecting the environment and conserving natural resources.

RBC™ is a trademark of the Rechargeable Battery Recycling Corporation.

Save These Instructions

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Retrieve Messages from the FF680 Handset (Cont.)

Time/Day Set

Note: The unit must be set to ANSWER ON before you set the Time/Day. When setting the Time/Day Stamp, do not allow more than 20 seconds to go by in between any step. If any digits are entered incorrectly, you will hear 2 error beeps and you will need to start over.

Press "*" and then "#" on the keypad to access the Time/Day Set operation. Unit will beep once.
To set the clock, a series of 6 digits can be input to specify the day and time in the following order:

Hour, Minute, AM/PM, Day
Hour '01' to '12'
Minute '00' to '59'
AM/PM 0 = AM, # = PM
Day 1=Mon., 2=Tues.,7=Sun.

For example, to set the time for Tuesday 3:32 PM

Hour	Minute	AM/PM	Day
03	32	#	2

The unit will beep once and will announce the time/day that is set. If you do not hear the announcement, press the time check key (0 on the keypad) for confirmation. A quick reference sticker on the base handset will lists the steps for setting the Time/Day.

Time/Day Check

To hear the current set Time/Day, press "*" and then "0" on the handset.

Call Screening

You may use the handset to screen your messages. When the answering machine is answering a call, press "*" and listen. Callers will be unaware that you are screening their calls. You may then press the TALK button to speak with the caller.

Note:

You cannot be paged when you are accessing the answering machine through the handset.

TO EXIT THE REMOTE OPERATION THROUGH THE HANDSET, PRESS THE "*" BUTTON ONCE.

IMPORTANT NOTICE

IF THE TELEPHONE RINGS WHILE YOU ARE RETRIEVING MESSAGES FROM THE HANDSET, YOU WILL BE DISCONNECTED FROM THE REMOTE MODE, AND THE UNIT WILL ANSWER THE CALL. AT THIS POINT, YOU MAY PRESS THE "*" KEY TO SCREEN THE CALL, OR PRESS THE TALK BUTTON TO ANSWER THE CALL.

FCC Wants You To Know

This equipment complies with Part 68 of the FCC rules. On the bottom of the base of this equipment is a label that contains, among other information, the FCC Registration Number and Ringer Equivalence Number (REN) for this equipment. You must, upon request, provide this information to your telephone company.

The REN is useful to determine the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

If your telephone equipment causes harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But if advance notice isn't practical, you will be notified as soon as possible. You will be informed of your right to file a complaint with the FCC.

Your telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service. If you experience trouble with this telephone equipment, disconnect from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning.

This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.

This equipment is hearing aid compatible.

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

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Some cordless telephones operate at frequencies that may cause interference to nearby TV's and VCR's. To minimize or prevent such interference, the base of the cordless telephone should not be placed near or on top of a TV or VCR. If interference is experienced, moving the cordless telephone farther away from the TV or VCR will often reduce or eliminate the interference. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- * Reorient or relocate the receiving antenna.
- * Increase the separation between the equipment and receiver.
- * Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- * Consult the dealer or an experienced radio TV technician for help.

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MAIN FEATURES

TAD FEATURES :

1. Digital OGM & ICM
2. Approx. 15 minutes of recording (1 PCs. 4Mx4 ARAM)
3. Remote turn on - 10 rings
4. Max. OGM length : 30 seconds
5. Max. ICM length : 60 seconds
6. Max. MEMO length : 60 seconds
7. Battery backup with Battery low indication
8. One digit 7- segment message counter
9. New message indication
10. Machine on /off indication
11. Call screening
12. Vox control
13. Branch phone reset
14. [2]-[4]-[toll saver] ring selection switch
15. Answer only / normal selection switch
16. Time-date stamping
17. Voice prompt manual
18. Voice Wizard manual
19. 3 digits remote access code (factory select)
20. Full DTMF remote access :
Message playback, skip, repeat, erase all messages, machine turn off, OGM change

CORDLESS PHONE FEATURE :

1. 43 / 49 MHz 25 channels auto scanning operation
2. Random combinations of security code
3. Last number re-dial (32 digits max.)
4. Power saving in standby mode. (handset)
5. One way paging handset finder
6. Tone / Pulse dialing mode selection switch in base unit
7. Ringer ON /OFF switch in base unit
8. Mixed mode dialing (auto insert of 4 sec. pause when mode change from Pulse to Tone)
9. 10 repertory dial memories store in base unit (16-digits / phone no. max.)
10. Chained memory dialing of 32 digits max.
11. Flash key for call waiting and call transfer (Flash time is 650ms.)
12. Pause key (pause time is 4 seconds)
13. Low battery warning tone
14. Out of range warning tone
15. Handset ringing / in use / LED indication
16. Auto Standby feature
17. Auto Answer connection
18. On hook Secure feature
19. Handset access TAD functions :
 - 19.1. Message play. skip, repeat, erase all messages
 - 19.2. Call screening
 - 19.3. OGM change

19.4. Time check, set-up

19.5. Answer mode ON, OFF

Auto Standby	allows the user to hang up by simply returning the handset to the base.
Auto Answer	allows the user to answer a call by just removing the handset from the base so the user don't have to waste time pushing buttons. The 'Talk' key will be disable for 5 seconds to avoid accidental hang up. This feature is activated while ringing and disable 10 seconds after the ring.
Auto Secure	electronically locks the phone when the handset is putting on cradle for charging in the base.

BASE UNIT KEYBOARD :

1. GREETING
2. ANSWER ON / OFF
3. PLAY / SKIP / MEMO
4. TIME SET / REPEAT
5. STOP / SAVE
6. PAGE
7. START (1) *PRESS FOR HELP*
8. (2) *PRESS FOR HELP*

BASE UNIT SWITCH :

1. [2] - [4] - [TS]
2. Tone / Pulse
3. Announce only / normal
4. Ringer ON / OFF

BASE UNIT LED :

1. POWER
2. IN USE / CHARGE
3. 7-SEGMENT MESSAGE COUNTER

CORDLESS HANDSET KEYBOARD :

1. TALK
2. FLASH
3. MEMORY
4. REDIAL / PAUSE
5. DIGIT 0 ~9, *, #
6. CHANNEL

HANDSET SWITCH :

1. Volume HI / LOW

CORDLESS HANDSET LED :

1. IN USE / BAT. LOW
2. 'Lighted key pad' (turn on 8 seconds when any handset key pressed in normal operation)

POWER ON SELF TEST

At power up, the machine will execute a Power-On-Self Test automatically to make sure the recording media is in good condition.

EVENT	VOICE PROMPT
When power-up, before the unit perform check RAM function. (key operation is enabled after RAM check completed in about 14 seconds)	Wait for operation.
After RAM check is complete	Unit ready.

During the test, the 7-segment display will count down from [9] to [0].

During the Power-On-Self-Test, no key response.

VOICE WIZARD MANUAL

The 'voice wizard' key [1], [2] function is active in Answer On or Answer Off Mode only.

EVENT	VOICE PROMPT
1. User presses 1 to begin	Welcome to the Southwestern Bell Voice Help Guide. Press 1 to begin.
2. Press '1' button at (1)	Are you having trouble setting greeting ? Press 1 for yes or 2 for no.
3. Press '1' button at (2).	<ul style="list-style-type: none"> ◇ press and hold greeting button for five seconds. ◇ wait to speak after the beep. ◇ leave a message longer than 2 seconds. Press 1 to continue or 2 to stop.
4. Press '2' button at (2) or '1' button at (3).	Are you having trouble getting dial tone ? Press 1 for yes or 2 for no.
5. Press '1' button at (4)	<ul style="list-style-type: none"> ◇ Place handset back into the cradle for five seconds. ◇ charge telephone for 10 hours before initial use. ◇ return handset to base consistently. ◇ charge LED should light when handset is in cradle. Press 1 to continue or 2 to stop.
6. Press '2' button at (4) or '1' button at (5).	Are you experiencing static when you talk on telephone ? Press 1 for yes or 2 for no.
7. Press '1' button at (6)	<ul style="list-style-type: none"> ◇ Move closer to the base. ◇ is base antenna fully extended. ◇ Press channel button. Press 1 to continue or 2 to stop.
8. Press '2' button at (6) or '1' button at (7).	Are you having trouble accessing your machine remotely ? Press 1 for yes or 2 for no.
9. Press '1' button at	◇ use security code on bottom of the base.

EVENT	VOICE PROMPT
(8)	<ul style="list-style-type: none"> ◇ enter security code at end of greeting. ◇ enter each digit for 3 seconds. Press 1 to continue or 2 to stop.
10. Press '2' button at (8) or '1' button at (9).	Are you having trouble receiving messages ? Press 1 for yes or 2 for no.
11. Press '1' button at (10)	<ul style="list-style-type: none"> ◇ is answer on/announce only switch set to answer on. ◇ is machine turned on. ◇ if power failure occurs, reset machine. ◇ if message capacity is full, erase messages. Press 1 to continue or 2 to stop.
12. Press '2' button at (10) or '1' button at (11).	Thank you for using the Southwestern Bell Voice Help Guide. If we have not answered your specific question, call our toll free help line at 1-800-366-0937
13. when '2' button is pressed at (1), (3), (5), (7), (9), (11)	"Beep"

If no key is entered within 20 sec. the unit will return to the Answer On Mode.

ANSWER ON MODE

The machine is entering Answer On mode after RAM check completion.

The unit will answer incoming calls according to the ringer switch selection and record ICM when 'ANS' switch is selected.

User may select to broadcast OGM with ICM recording or broadcast OGM only by setting Independent Answer Only Select Switch position.

To indicate the 'Answer only' condition. The 7-segment will show 'A'. The display will be flashing if NEW message is received.

The 7-segment message counter will display the total number of messages received (maximum number of message display is **[9]**).

The 7-segment will flash to indicate **NEW MESSAGE** received.

Press 'stop/save' button to save all the messages

EVENT	VOICE PROMPT
To save all the messages	Messages saved

Press 'answer on /off' button to turn off the machine

EVENT	VOICE PROMPT
change from answer on mode to off mode	Answer off

Announce only / Normal switch position

EVENT	VOICE PROMPT
Confirm that setting to announce only.	Announce only
Switching from 'Ann.only' to 'Normal' position.	Answer On

ANSWER OFF MODE

Press 'ON/OFF' button in Answer On Mode will turn-off the unit and enter into the Answer Off Mode.

The 7-segment Messages counter display will be turned OFF.

The unit will not respond to any key or any function during the Answer Off Mode except the 'ON/OFF' button and the remote turn on function.

The day/time clock will continue to run but cannot be set in the Answer Off Mode.

Press 'answer on /off' button to turn on the machine

EVENT		VOICE PROMPT (<i>announce the current time</i>)
TIME IS SET	ANNOUNCE ONLY	
yes	no	Answer on. Monday one O' one AM.
no	no	Answer on. To set clock, press and hold time set button.
yes	yes	Announce only. Monday one O' one AM.
no	yes	Announce only. To set clock, press and hold time set button.

Pressing other button

EVENT	VOICE PROMPT
Pressing any button (except voice wizard buttons and on/off button)	turn on machine

Remote turn-on (at the 10th incoming call ring) always puts the unit into the Answer On Mode.

After 10th incoming call rings, the unit will answer the call, announce OGM and record ICM as in Answer On Mode when 'ANS' switch is selected.

OGM RECORDING / PLAYBACK

Press 'Greeting' button to check or to record an OGM

EVENT	VOICE PROMPT
the first time pressing the button	To listen to greeting, press and release greeting button. To record greeting, press greeting button & hold.
Press and release the button again within 5 sec.(no user recorded OGM)	Hello, we are not available now, please leave your name and number after the beep. To record new greeting, press and hold greeting button.
Press and hold the button	Record greeting after the beep. Do not release

EVENT	VOICE PROMPT
again within 5 sec.	greeting button until you are finished recording.
User recorded less than 2 seconds OGM	Greeting not recorded, record longer message.

The first time press and hold the GREETING button, the 3rd voice prompt will be announced. (the 1st and 2nd voice prompt will be skipped)

For changing the existing OGM, the unit must be in Answer On Mode.

The recording process is terminated by either release the GREETING button or the maximum time limit of **30 seconds** has been reached.

The unit plays back the recorded OGM once before it returns to Answer On Mode.

All ICMs and Call Count are reset.

You can stop the playback anytime during the playback sequence by press and release the 'STOP/SAVE' button.

ICM RECORDING

Machine answering call
Line is seized after the rings

EVENT	VOICE PROMPT
Ram full	Hello, our machine cannot accept messages. Please call again.
Ram available without user's OGM	Hello, we are not available now, please leave your name and number after the beep.

The unit will answer the incoming calls in Answer On Mode. ICMs will be recorded being set at 'ANS' by the Independent Answer Only Select switch.

The unit will respond after a number of rings set by the ring selector switch.

[2] / [4] / [TOLL] :

- [2] -- answer after 2nd ring
- [4] -- answer after 4th ring
- [TOLL] -- answer after 2nd ring if NEW message present or
answer after 5th ring if no NEW message present.

The unit will send the OGM announcement through the telephone line and through the speaker and start recording after the end of OGM beep.

During ICM recording, remote playback of ICM is possible after the receive of correct remote code. Current ICM will be canceled after carry out remote ICM playback operation.

During message recording, pressing 'STOP/SAVE' button or pick up a parallel phone of the same line will terminate ICM recording immediately. And the current ICM will be saved.

The maximum recording time is **60 seconds** per message.

The message recording will stop when receiving **7 seconds** of:

- No sound
- Continuous Tone (e.g. : Dial tone)
- Busy Tone

During message recording the user is able to hear (call screening) the callers' voice of which the voice level is controllable with the volume control.

If ICM has been recorded, the ICM call count will increase by one. The message counter displays the total number of messages recorded by the line and Memo(s).

The 7-segment display will flash to indicate **NEW MESSAGE** received.

Each ICM will be stamped with the day and time it is recorded.

A beep of about *0.5 sec.* is sent to the line and speaker before the unit hangs up.

AT HOME MEMO RECORDING

In Answer On Mode press and hold the 'PLAY/SKIP/MEMO' button (Message counter display turns off), a beep will sound, then MEMO recording begins.

Speak via the built in condenser microphone after the beep.

The MEMO recording process is terminated by either release the button or reach the max. length of **60 seconds**.

The day/time stamp will be recorded after each memo recording.

The Message Counter Display will increase by one after a memo is recorded.

The 7-segment display will flash to indicate **NEW MESSAGE** available.

EVENT	VOICE PROMPT
Memory full when / while recording	Memory full. Erase saved messages.

AT HOME ICM PLAYBACK

Press 'Play/skip/memo' button to play message

EVENT	VOICE PROMPT
the first time pressing the button	To listen to messages, press and

EVENT	VOICE PROMPT
	release play-button.
press and release the button again within 5 sec.(No message to play)	No messages
press and release the button again within 5 sec.(e.g. there are 3 messages to play)	3 messages, message 1, Monday 12:00am
before starting to play each message, message number will prompt(e.g. message 8)	message 8, Monday 12:00am
At the end of last message, all the messages will be temporary erased *.	No more messages. Press stop/save button to save messages. If you do not press stop/save button, messages will be erased.
Stop button pressed while message playing	Messages saved.

* Pressing the 'stop/save' button, before the messages are permanently erased, can retrieve all temporary erased messages.

All temporary erased messages will be permanently erased if:

- ICM recording in process, or
- An OGM is recorded, or
- A memo message is recorded.

NEW MESSAGE	OLD MESSAGE	PLAY BACK PRIORITY
yes	don't care	playback the new message only
no	yes	playback all message

Once the NEW message is played or skipped while playing back, it will be marked 'OLD'

for e.g. there are 6 messages of which the first 4 messages has been played. The playback procedure will be:

- [6 messages][message 5][Monday one O'one AM]...message content
- [message 6][Monday one O'two AM]...message content
- [No more messages....]

During playback, pressing the '*REPEAT*' button will cause repeating playing back of the current message from its beginning.

Pressing the '*REPEAT*' button twice in 2 sec. will playback the previous message.

Pressing the '*PLAY*' button will cause the unit to skip to playback the next message. Pressing the '*PLAY*' repeatedly will advance playback through the messages, beginning with the start of next message.

EVENT	VOICE PROMPT
Pressing the 'PLAY' button	Skip
Pressing the 'REPEAT' button	Repeat

The playback sequence can be interrupted by pressing the 'STOP/SAVE' button. All messages will be saved and new recording will start from the end of the last message.

If the unit has played back all messages, the message count display will return to [0] and all messages will be erased temporarily.

All temporary erased messages will be permanently erased if:

- a. ICM recording in process, or
- b. An OGM is recorded, or
- c. A memo message is recorded.

Pressing the 'STOP/SAVE' button in Answer On Mode, before the messages are permanently erased, can retrieve all temporary erased messages.

At the beginning of each message, the recorded Date/Time stamp will be announced once. If the clock have not been set, NO Date/Time stamp will be announced.

REMOTE MODE

When the unit answers, you can input three security codes at any time, during playing back OGM or recording ICM.

Three DTMF numbers is used for security code. This number sequence is factory set and not for user select. If the correct first security code is received during OGM announcement, the unit will stop playing OGM and wait 20 sec. for the rest of the security codes. The unit will hang up if the user fails to complete the security number sequence within 20 sec. During recording ICM, the unit will have no response to the user's input unless the number sequence is correctly entered.

After accepting the correct remote access code, the unit will send 4 beeps indicating that the security code is accepted and the unit is now in remote mode.

TOUCH TONE REMOTE CONTROL

when correct security code is received

EVENT	VOICE PROMPT
remote control main menu start. Press 8, or 9 will activate other function. Press other key not specified will restart the main menu. When there were new messages, 'erase all' function is prohibited. i.e. 'Press 3 to erase all message' will not announce.	press 1 to play back new messages. press 2 to play back all messages press 3 to erase all messages press 4 for other functions
request for other functions. Press 1, 2 or 3 will activate the main menu function. Press other key not specified will restart the main menu.	press 8 to record new greeting press 9 to turn off answer mode press 4 to return to main menu
no message to play	No messages
start playing message (e.g. 6 messages available)	6 messages. While listening to message press 6 to skip or 4 to repeat.

EVENT	VOICE PROMPT
at the end of message playback	No more messages
start recording greeting. After end recording unit plays back greeting.	Record greeting after the beep, press 5 to end recording
Turn off machine and release line	Answer off
erase* all message and release line	All messages erased
Press 6 during message playback	Skip
Press 4 during message playback	Repeat

* the messages are permanently erased, Pressing the 'stop/save' button can not retrieve the erased messages.

User can enter the function code any time while voice prompt announcing.

If within 20 sec. no other command code is entered, the unit will hang up and return to Answer On Mode.

REMOTE PLAYBACK (press 1 or 2 in remote mode)

If there are no messages, or at the end of message playing

- ✧ the unit will prompt the user [No messages] or [No more messages]
- ✧ wait for 3 seconds for commands *[common start up sequence]*
- ✧ play the start up prompt 'press 1 to..., press 2 to....' etc.
- ✧ wait for another 20 sec.

If no other command code is entered, the unit will hang up and return to Answer On Mode.

If there are messages, the unit will playback the messages.

- ✧ User may terminate message playback at any time by pressing '5'. Then go back to *[common start up sequence]*.

During remote playback pressing **[4]** will repeat playback of the current message. Pressing digit **[4]** repeatedly will move backwards through the messages.

(The remote *Repeat/Skip* function work the same as local *Repeat/Skip* function.)

All messages being played will be marked 'OLD' and saved.

REMOTE OGM CHANGE (press 4 and then 8 in remote mode)

Speak via the telephone line for OGM recording after the beep.

The maximum recording time is **30 seconds**.

The OGM recording will stop when receiving **7 seconds** of:

- No sound
 - Continuous Tone (e.g.: Dial Tone)
 - Busy Tone
- or **30 seconds** time out

Press **[5]** to end the recording.

The unit will play back the recorded OGM once via the telephone line after recording. Then go back to *[common start up sequence]*.

All ICMs and Call Count are reset.

If OGM recording is terminated by pressing 'STOP/SAVE' button or pick up a parallel phone connected to the unit, the unit will return to Answer On Mode immediately, the recorded OGM will be saved.

REMOTE TURN OFF (press 4 and then 9 in remote mode)

The unit will terminate call, turn off and return to Answer Off Mode.

The unit can be turned on again by answering call after **10 rings** (remote turn-on) or by pressing 'ON/OFF' button on the unit.

RAM FULL RESPONSE

To indicate the RAM FULL condition. The 7-segment will show 'F'. The display will be flashing if NEW message is received.

The unit will respond after a number of rings set by the ring selector switch in Answer On mode.

The default voice prompt for Ram full condition will be announced.
i.e. "Hello, our machine cannot accept messages. Please call again."

If the correct first security code is received during RAM full announcement, the unit will stop playing and wait for the rest of the security codes. The unit will hang up if the user fails to complete the security number sequence within **20 sec.** And return to Answer On Mode.

If within **20 sec.** the remote access code is entered the unit will send **4 beeps** then enter into the remote operation.

Otherwise, at the end of announcement, the unit will wait **20 sec.**

If no remote access code is entered within **20 sec.** the unit will hang up and return to the Answer On Mode.

To make room in the RAM storage, the caller should playback and erase messages.

SETTING OF THE DAY/TIME STAMP

Press 'time set' button to check or set time

EVENT	VOICE PROMPT
press and release button, clock is set (voice prompt is an e.g.)	Monday one O'one AM, to set clock, press and hold time set button
press and release button, clock is not set	To set clock, press and hold time set button
Press and hold the button for 1.5 sec. will begin the set clock sequence. Day will be set first	Press on/off button to set day. When you hear correct day, press time button.
When day setting is complete. Hour setting will be followed.	Press on/off button to set hour. When you hear correct hour, press time button.
When hour setting is complete. Minute setting will be followed.	Press on/off button to set minute. When you hear correct minute, press time button.
When minute setting is complete. AM/PM setting will be followed.	Press on/off button to set AM or PM. When you hear correct setting, press time button.
When AM/PM setting is complete. The set clock sequence is completed.(voice prompt is an e.g.)	Monday one O'one AM. If time/day setting is incorrect, press and hold time set button.

(Default time value after power-up: "**Monday 12 AM**").

If the machine is left un-touch for **20 seconds** in Set Clock Mode, it will restore the clock value and return to Answer On Mode.

REMOTE OPERATION FROM THE CORDLESS HANDSET**Cordless handset remote operation**

Press the '*' key in handset to start remote operation. The INUSE LED of handset turn on to indicate the communication link is ready.

handset is link up with the base unit which is not answering a call

EVENT	VOICE PROMPT
remote control main menu start. <i>Press 0 for time check</i> <i>Press # for time setting</i>	press 1 to play back new messages press 2 to play back all messages press 3 to erase all messages
Press other key not specified will restart the main menu. When there were new messages, 'erase all' function is prohibited. i.e. 'Press 3 to erase all message' will not announce. TAD function can not be access in Answer Off mode.	press 7 to turn on answer mode press 8 to record new greeting press 9 to turn off answer mode press 4 to return to main menu

EVENT	VOICE PROMPT
no message to play	No messages
start playing message (e.g. 6 messages available) <i>Press 5 to stop & save all messages</i>	6 messages. While listening to message press 6 to skip, or 4 to repeat.
at the end of message playback	No more messages
start recording greeting. After end recording unit plays back greeting.	Record greeting after the beep, press 5 to end recording
turn on machine and read set time	Answer on. Monday one O' one AM.
Turn off machine	Answer off
erase* all message	Messages erased
Press 6 during message playback	Skip
Press 4 during message playback	Repeat

*the messages are permanently erased, Pressing the 'stop/save' button can not retrieve the erased messages.

During remote handset playback pressing **[4]** will repeat playback of the current message. Pressing digit **[4]** repeatedly will move backwards through the messages.

(The remote *Repeat/Skip* function work the same as local *Repeat/Skip* function.)

All messages being played will be marked 'OLD' and saved.

To set the clock, a series of 6 digits after **[#]** can be input to specify the day / time values in the following order :

0 8 3 0 # 2 TO PROGRAM DTS TO READ 8:30PM, TUESDAY(2)
1 1 2 4 0 7 TO PROGRAM DTS TO READ 11:24AM, SUNDAY(7)

The day / time being set will play back once. (pause a second after the setting)
In case of error setting, error beep will be generated instead.

Press the '*' key in handset or put the handset to cradle will terminate the remote operation. Press the TALK key will terminate the remote operation and enter into 'TALK' mode.

HANDSET CALL SCREENING

Press the '*' key in handset to activate the call screening in handset when TAD is answering a call.

Press the '*' key in handset or put the handset to cradle will terminate the call screening operation.
Press the TALK key will terminate the call screening operation and enter into 'TALK' mode.

CORDLESS OPERATION

Channel frequencies

Transmission frequencies in MHz		
CH.NO	Base	Handset
1	43.720	48.760
2	43.740	48.840
3	43.820	48.860
4	43.840	48.920
5	43.920	49.020
6	43.960	49.080
7	44.120	49.100
8	44.160	49.160
9	44.180	49.200
10	44.200	49.240
11	44.320	49.280
12	44.360	49.360
13	44.400	49.400
14	44.460	49.460
15	44.480	49.500
16	46.610	49.670
17	46.630	49.845
18	46.670	49.860
19	46.710	49.770
20	46.730	49.875
21	46.770	49.830
22	46.830	49.890
23	46.870	49.930
24	46.930	49.990
25	46.970	49.970

Power Up

Handset

After power up, the handset receiver part will stay at a random channel and waiting for signals which containing the same ID code for 60 msec

The handset will enter into halt mode for 1.5sec to save power consumption and then wake up at last channel for 80ms. detecting the code from the base unit.

After power up, the handset should place on the cradle of the base unit for setting a new security code for communication

Base

The base receiver part will continuously searching for a channel with a signal containing the same ID code

The scanning sequence starts from CHI onwards and follows the sequence in the frequency table

Digital security code

The security code is composed of 16 bits data, so it can generate 65536 combinations.

The security code will be generated randomly by timer counter contents inside the MCU in base unit.

Each time when the handset placed on the cradle of the base unit, the base unit will generate and transmit a new security code to the handset unit through the RF Link. (The both unit will use the 8th channel for the security code transfer operation)

The completion of a successful security code transfer operation will be indicated by a flash of the in use LED on the base unit and a beep sound generated by handset.

In case, the Transfer operation cannot be successful, please try again.

Answering Call

The incoming call is signaled by a ringing sound from the handset's buzzer and by the blinking of the handset and base in use LED

If the base's ringer switch is OFF, there will only be blinking of the LED's to indicate ringing.

If the base's ringer switch is ON, then the handset's buzzer will ring and there will be blinking of the LED

The base unit will detect and transfer the ringing signal to the handset unit as long as the ringing signal is present.

To answer a call :

When the handset is on the cradle, pick up the handset unit from the cradle of the base

When the handset is away from the base unit, press the "talk" button on the handset unit

The handset will transmit the "talk on" command to the base unit to establish the RF connection with in use LED turns on after connection is successful.

If the communication Link cannot be established within 6.5 sec, three error beeps tone will be heard from the handset to indicate communication is failed with in use LED turn OFF.

Making a call

To make an outgoing call, the handset must be picked up from the cradle of the base unit.

Each new call must begin by pressing the "talk" key in the handset and the in use LED will blink to indicate the scanning for a clear channel for communication.

The handset will transmit the "talk on" command to the base unit to establish the RF communication with the in use LED turns on after connection is successful.

If the communication Link cannot establish with 6.5 sec, there error beeps tone will be heard from the handset to indicate the communication is failed with in use LED turns OFF.

Terminate a call

To terminate a call ,either by pressing the “talk” key or replace the handset on the cradle of the base unit.

By pressing the ‘talk’ key, the handset LED will turns OFF with a beep indicating call is terminated successfully.

By placing the handset on the cradle, call is terminated and ‘Security code set up’ procedure will be performed.

Handset LED will turns OFF and error beep will be generated if it can not receive ‘talk off ACK’ from the base unit. In this case, Put the handset back to the base cradle to make sure base unit is going ON HOOK.

Last number Re-dial

Press the “talk” key during standby mode to establish RF communication.

Press “redial” key after the line make to redial the last number digit store in memory(up to 32 digits long)

When the Last Number re-dial memory is full, no re-dial function will be made.

Line Flash

Press the “talk” key during standby mode to establish RF communication.

Press “flash” key once will break the telephone line for 650 msec. during dialing.

Channel selection

Press the “talk” key during standby mode to establish RF communication.

Press “Channel” key to start a channel scanning process to select a clear channel for communication.

The total channel scanning process cannot exceed 6.5 sec. if the scanning is unsuccessful, both unit will use the last channel for communication. In this case, error beep will be generate in handset.

Memory Dialing

Press the “talk” key during standby mode to establish RF communication.

There are 10 indirect memories which each can store up to 16 digits for memory dialing.

Press “memory” key once to enter into the memory dialing mode, then press the location No. to redial the stored memory digits.

Chain dialing is allowed in Two memory location.

Dial key pad (0~9,*,#)

Press "talk" key during standby mode to establish RF communication.

Press the dial key once and the digits will be dial out (DTMF) to line for the minimum of 100msec.

Press & hold the dial key for continue DTMF tone output.

In pulse dialing mode, press '*' to switch to tone dialing, a 4 seconds pause will be inserted.

Memory store operation

There are 10 indirect memories which each can be stored up to 16 digits for memory dialing. note that the memory is stored in the base unit micro computer memory.

Press "Memory" key once to enter into the memory store mode during standby mode. the handset unit will transmit the "Memory" command to the base unit to establish the RF communication for memory storing. If communication is successful, the in use LED in the handset unit will blinks at 1 sec ON, 1 sec OFF to indicate it is in memory stored mode.

If the communication link cannot establish within 6.5sec, there error beeps tone will be heard from the handset unit and the communication will be out.

In memory store mode, press dial key pad once to store in the memory location for memory dialing.

The maximum No. of digits that can be stored in memory location is up to 16 digits.

After the memory No. is stored, press "Memory" key once to enter the selected location mode. Then the memory location 0 to 9 can be selected by pressing the digits 0~9 from the keypad. A long beep will be heard to indicate the memory stored sequence had been completed and the RF communication will be terminated.

For each key pressed during memory store operation. there will be a 20 sec time out for the memory storing sequence, if no key is entered within this period, then the operation is terminated, three error beep tone will be heard through the buzzer of the handset unit.

The memory storing sequence will be terminated in the following ways:

- Store operation had been completed.
- Press "talk" key on the handset.
- Place the handset on the cradle of the base unit.
- An incoming ringing signal is detected.

Out of range

If base cannot detect handset's RF signal, the base unit will generate intermittent "beep" warning tone through the RF communication to handset's ear piece at a 2 sec interval with 0.5 msec ON. the warning signal will last for 16 seconds.

Battery/Voltage low detection

Battery detection will perform all the time except during charge mode.

i.e.

when handset place on the cradle of the base unit.

If battery low condition is detected (3.3V) , then the handset will enter into battery low condition. the buzzer will beep for 7 sec interval i.e. 400msec ON, 6.6sec OFF.(tone frequency is 1 kHz) and the IN USE Led will flash. The handset will change to 'Halt' mode when 3.0V is detected. In 'Halt' condition, all handset function is prohibited.

If battery low condition is restored, the handset will back to normal mode again.

Paging

Press the "page" key once to locate the handset.

The base will transmit a "page" command to the handset unit to establish RF communication for paging procedure.

After the handset unit receives the "page" command, will putout beep tone for 3 times.

End of Document.

Appendix

In-use / charge LED operation :

PRIORITY	CONDITION							INUSE / CHARGE LED STATUS
	AC power down	H/S set up compete	H/S make line	TAD make line	ringer detected	H/S on charge	Page key pressed	
1.	1	X	X	X	X	X	X	OFF
2.	0	1	X	X	X	X	X	FLASH 20Hz. For a sec.
3.	0	0	1	X	X	X	X	ON
4.	0	0	0	1	X	X	X	ON
5.	0	0	0	0	1	X	X	FLASH 20Hz.
6.	0	0	0	0	0	1	X	ON
7.	0	0	0	0	0	0	1	ON
8.	0	0	0	0	0	0	0	OFF

POWER LED operation :

PRIORITY	CONDITION		POWER LED
	AC power down	Bat. Good TAD Busy	
1.	1	X	OFF
2.	0	1	ON
3.	0	0	ON
4.	0	0	Flash at 5 Hz.(1 sec.), 2-3 sec. ON

7-segment display operation :

1.	PRIORITY CONDITION				7- SEGMENT DISPLAY			
	AC power down	1" stage RAM checking	Answer OFF	Playing message	While recording	Answer only	Ram Full	New message received
1.	X	X	X	X	X	X	X	OFF
2.	0	1	X	X	X	X	X	count down from 9 to 0
3.	0	0	1	X	X	X	X	OFF
4.	0	0	0	1	X	X	X	show the message no. being play
5.	0	0	0	0	1	X	X	OFF
6.	0	0	0	0	0	1	X	show 'A'
7.	0	0	0	0	0	1	X	Flash the 'A' at 5 Hz.(1 sec.), 2-3 sec. ON
8.	0	0	0	0	0	0	1	show 'F'
9.	0	0	0	0	0	0	1	Flash the 'F' at 5 Hz.(1 sec.), 2-3 sec. ON
10.	0	0	0	0	0	0	1	show the total no. of messages (saved +new), Flash at 5 Hz.(1 sec.), 2-3 sec. ON
11.	0	0	0	0	0	0	0	show total no. of messages (saved +new)

TAD Busy : in the mode of : answering call, message playing back, recording message

'I' active, '0' inactive, 'X' don't care

- END -

Manual Change / Release information:

RELEASE NO. : R1	RELEASE DATE: 08 AUG.97	REVISION NO. : 1.0	SOFTWARE RELEASE NO : NA RELEASED TO : Patrick(Conair), Eric L., Kelvin T.
CHANGE NOTE : 1ST RELEASE			

RELEASE NO. : R2	RELEASE DATE: 14 AUG. 97 Patrick(Conair) on 29 Aug.97	REVISION NO. : 1.1	SOFTWARE RELEASE NO : NA RELEASED TO : Eric L., Kelvin T., Steve W., KW Chow, KW Chau, Patrick(Conair)
CHANGE NOTE :			
<ul style="list-style-type: none"> ✓ press Channel key to change channel (page 16) ✓ no DTS announce at the end of message if 'time is not set (page 8) ✓ lighted key pad (page 2) ✓ Answering call, Making a call (page 15, 16) ✓ Terminate a call (page 16) ✓ use the 8th channel for the security code transfer operation (page 15) ✓ New messages play back e.g. (page 8) ✓ playback the day/time setting (page 13) 			
<i>End of R2 change</i>			

RELEASE NO. : R3	RELEASE DATE: 09 SEP. 97 Patrick(Conair) on 10 Sep. 97	REVISION NO. : 1.2	SOFTWARE RELEASE NO : NA RELEASED TO : Eric L., Kelvin T., Steve W., KW Chow, KW Chau, Patrick(Conair)
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CHANGE NOTE :

- ✓ 4Mx4 ARAM, 43/ 46 MHz. 25 Channel, 10 repertory dial memory (page 1)
- ✓ Base, handset switch (page 2)
- ✓ Voice Wizard time out at 20 seconds. (page 4)
- ✓ Add the voice [Answer on] when switching from 'Ann.only' to 'normal' position (page 4)
- ✓ The 7-segment will flash the 'A' to indicate 'Answer only' switch is selected. (page 4, 20)
- ✓ OGM recording / playback (page 5)
- ✓ Press ON/OFF button to turn on the machine. The voice prompt is changed. (page 5)
- ✓ Ann. Message # then DTS while playing message (page 7)
- ✓ All temporary erased messages will be permanently erased if:
 - ICM recording in process, or An OGM is recorded, or A memo message is recorded. (page 8)
- ✓ The play back sequence '[message 5][Monday one O'one AM]...message content'(page 8)
- ✓ Sentence {Pressing the 'ON/OFF' button during playback will tag the current message to be saved.} is canceled.
- ✓ Sentence {At the end of each message, the recorded....} change to {At the beginning of each message, the recorded....}(page 8)
- ✓ Remote time out timer set to 20 seconds (page 9, 10, 11)
- ✓ Voice prompt control code change: press 1 to play back new messages, press 2 to play back all messages, press 8 to record new greeting, press 9 to turn off answer mode, press 4 to return to main menu(page 9, 12)
- ✓ While listening to message press 6 to skip or 4 to repeat. Record greeting after the beep, press 5 to end recording (page 9, 12)
- ✓ The voice prompt is canceled while 6 or 4 is pressed. (page 9)
- ✓ the unit will prompt the user [No messages] or [No more messages] (page 9)
- ✓ User may terminate message playback at any time by pressing '5'. Then go(page 10)
- ✓ During remote playback pressing [4] will repeat playback of the.....digit [4]..... (page 10, 12)
- ✓ REMOTE OGM CHANGE (press 4 and then 8 in remote mode) (page 10)
- ✓ Press [5] to end the recording. (page 10)
- ✓ REMOTE TURN OFF (press 4 and then 9 in remote mode) (page 10)
- ✓ The unit will respond after a number of rings set by the ring selector switch in Answer On mode. (page 11)
- ✓ The 7-segment will flash the 'F' to indicate RAM FULL condition. (page 11, 20)
- ✓ Voice prompt control code change: press 7 to turn on answer mode (page 12)
- ✓ Press 0 for time check, Press # for time setting, Press 5 to stop & save all messages. (page 12)
- ✓ To set the clock, a series of 6 digits after [#]can be input.....(page 12)

- ✓ The day / time being set will play back once. (pause a second after the setting) (page 13)
- ✓ Press the '*' key in handset or put the handset to cradle will terminate the remote operation. Press the TALK key will terminate the remote operation and enter into 'TALK' mode. (page 13)
- ✓ Press the '*' key in handset or put the handset to cradle will terminate the call screening operation. Press the TALK key will terminate the call screening operation and enter into 'TALK' mode. (page 13)
- ✓ security code set up, handset beep (page 15)
- ✓ When the Last Number re-dial memory is full, no re-dial function will be made. (page 16)
- ✓ there will be a 20 sec time out for the memory storing sequence. (page 17)
- ✓ The function of {If handset cannot detect base's RF signal, the handset will generate intermittent "beep" warning tone at 2 sec interval with 36msec buzzer on. the warning signal will last for 16 seconds} is canceled. (page 18)
- ✓ If battery low condition is detected (3.3V) , thenand the IN USE Led will flash. The handset will change to 'Halt' mode when 3.0V is detected. In 'Halt' condition, all handset function is prohibited. (page 18)
- ✓ power LED/ 7-segment flash rate (page 19,20)

End of R3 change

RELEASE NO. : R4	RELEASE DATE: 23SEP. 97	REVISION NO. : 1.3	SOFTWARE RELEASE NO : NA RELEASED TO : Eric L., Kelvin T., Steve W., KW Chow, KW Chau, Patrick(Conair)
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CHANGE NOTE :

- ✓ The handset will enter into halt mode for 1.5sec to save power consumption and then wake up at last channel for 80ms. detecting the code from the base unit. (page 14)
- ✓ Digital security code...In case, the Transfer operation cannot be successful, please try again. (page 15)
- ✓ {In some case, the In-use LED turns ON with error beeps generated, it indicate linking error, press the TALK key to terminate the connection and try again.} is removed. No such action. (page 15, 16)
- ✓ Channel selection.....The total channel scanning process cannot exceed 6.5 sec.....In this case the error beep will be generate in handset. (page 16)
- ✓ {If the Memory location does not have a number stored in it, an error beep will be heard when the location No. is pressed.} is removed. No such action. (page 17)

End of R4 change

RELEASE NO. : R5	RELEASE DATE: 08 OCT. 97	REVISION NO. : 1.4	SOFTWARE RELEASE NO : NA RELEASED TO : Eric L., Kelvin T., Steve W., KW Chow, KW Chau, Patrick(Conair)
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CHANGE NOTE :

- ✓ The 'voice wizard' key [1], [2] function is active in Answer On or Answer Off Mode only. (page 3)
- ✓ If machine is off, pressing any button (except voice wizard and ON/OFF buttons) ann. 'turn on machine' (page 5)
- ✓ 'Memory full. Erase all messages.' Prompt removed in OGM recording mode (page 5)
- ✓ After 10th incoming call rings, the unit will answer the call, announce OGM and record ICM as in Answer On Mode when 'ANS' switch is selected. (page 5)
- ✓ Ram full while memo recording 'Memory full. Erase saved messages.' (page 7)
- ✓ 'Memory full. Erase all messages.' Prompt removed in remote OGM recording mode (page 9)
- ✓ default ram full voice prompt. (page 11)
- ✓ remote set time sequence : e.g. 0 8 3 0 # 2 TO PROGRAM DTS TO READ 8:30PM, TUESDAY(2) (page 13)
- ✓ 'Terminate a call'. By pressing.....By replacing..... (page 16)

End of R5 change

RELEASE NO. : R6	RELEASE DATE: 31 OCT. 97	REVISION NO. : 1.5	SOFTWARE RELEASE NO : NA RELEASED TO : Eric L., Kelvin T., KW Chow, KW Chau, Patrick(Conair)
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CHANGE NOTE :

- ✓ 1 1 2 4 0 7 TO PROGRAM DTS TO READ 11:24AM, SUNDAY(7) (page 13)
- ✓ voice wizard manual 'EVENT' ...press 2 will stop and "Beep"..(page 3, 4)
- ✓ Add 'skip', 'repeat' voice prompt.(page 8, 10, 13)

- ✓ Flash the 'F' to indicate new message received (page 11, 20)
- ✓ Flash the 'A' to indicate new message received (page 4, 20)
- ✓ announce 'press and hold time set button' (page 5)
- ✓

End of R6 change

EXHIBIT 10
SECURITY CODE INFORMATION

INTERTEK TESTING SERVICES

10.0 Security code information

The telephone has an internal security code with 65,536 possible combinations. Each time you place the HANDSET on the cradle of base unit, the code is randomly set to a new combination.