

OWNER'S GUIDE

MODEL : GH2405MS

(2.4GHz DIGITAL CORDLESS TELEPHONE)

CONAIR CORPORATION
FCC ID : LBBGH2405T
JOB # : 509AK0

EXHIBIT # : *7A-M*

READ THIS BEFORE INSTALLATION

Your telephone conforms to federal regulations, and you can connect it to most telephone lines. However, each device you connect to the phone line draws power from the phone line. We refer to this power draw as the device's ringer equivalence number, or REN. The REN is shown on the label of your phone.

If you are using more than one phone or other devices on the line, add up all the RENs. If the total is more than five, your phone might not ring in rural areas, a total REN of three might impair ringer operation.

FCC STATEMENT

This telephone complies with part 68 of FCC Rules. You must, upon request, provide the FCC Registration Number and the REN to your phone company.

These numbers are located on the label of your phone.

Note : You must not connect your phone to any of the followings:

- Coin-operated systems
- Patty-line systems
- Most electronic key phone systems

Your telephone operates on standard radio frequencies, as allocated by the FCC.

Even though the access protection code prevents unauthorized use of your phone line, it is possible for other radio units operating on similar frequencies within a certain area to unintentionally intercept your conversations and/or cause interference. This lack of privacy can occur with any cordless phone.

CAUTION :

“To reduce the risk of fire on injury to persons, read and follow these instructions.”

1. Use only the following type and size battery(ies)
2. Do not dispose of the battery(ies) in a fire. The cell may explode.
Check with local codes for possible special disposal instructions.
3. Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause damage to the eyes or skin. In may be toxic if swallowed.
4. Exercise care in handling batteries in order not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns.

- IMPORTANT SAFETY INSTRUCTIONS -

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, 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 outlet before cleaning. Do not use liquid cleaners 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, or laundry tub. In a wet basement, or near a swimming pool.
5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation, to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on the bed, sofa rug, or other similar surface. This product should never be placed in a built-in installation unless proper ventilation is provided.
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. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
9. To reduce the risk of electric shock, do not disassemble this product, but take it to a qualified serviceman when some service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks, incorrect reassembly can cause electric shock when the appliance is subsequently used.

10. 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 by following the operating instructions. Adjust only those controls that are covered by the operating instructions because 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 distinct change in performance.
11. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
12. Do not use the telephone to report a gas leak in the vicinity of the leak.

- SAVE THESE INSTRUCTIONS -

CAUTION :

To reduce the risk of fire or injury to persons, read and follow these instructions.

5. Use only the battery(ies) instructed.: 600mAH / 3.6V
6. Do not dispose of the battery(ies) in a fire. The cell may explode.
7. Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause damage to the eyes or skin. It maybe toxic if swallowed.
8. Exercise care in handling batteries in order not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns.
9. Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.

INSTALLATION :

1. Never install telephone wiring during a lightning storm.
2. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
3. Never touch uninstalled telephone wires or terminals unless the telephone line has been disconnected at the network interface.
4. Use caution when installing or modifying telephone lines.

WARNING :

To prevent fire or shock hazard, do not expose this product to rain or any type of moisture.

- FCC AND OTHER INFORMATION -

If requested by the telephone company, inform them as follows:

- FCC registration no.
(found on the bottom of the unit)
- Ringer equivalence
(found on the bottom of the unit)
- The particular telephone line to which the equipment is connected.

This unit must not be connected to a coin operated line. If you are on a party line, check with your local telephone company.

RINGER EQUIVALENCE NO. (REN) :

The R.E.N is useful in determining 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.

In the event terminal equipment calluses harm to the telephone network, the telephone company should notify the customer, if possible, that service may be stopped. However, where prior notice is impractical, the company may temporarily cease service providing that they

1. Promptly notify the customer.
2. Give the customer an opportunity to correct the problem with their equipment.
3. Inform the customer of the right to bring a complaint to the federal communication commission pursuant to procedures set out in FCC rules and regulations subpart E of Part 68.

The telephone company may make changes in its communications facilities, equipment, operations or procedures, where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations in FCC Part 68.

If such changes can be reasonably expected to render any customer terminal equipment incompatible with telephone company communications facilities, or require modification or alteration of such terminal equipment, or otherwise materially affect its use or performance, the customer shall be given adequate notice in writing. To allow the customer an opportunity to maintain uninterrupted service.

CAUTION :

To assure continued compliance with FCC rules, do not make any unauthorized modifications. When programming emergency numbers AND/OR marking test calls to emergency numbers

1. Remain on the line and briefly explain to the dispatcher the reason for the call before hanging up.
2. Perform such activities in the off-peak hours, such as early morning hours or late evenings.

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. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on. The user is encouraged to try to correct the interference by one more of the following measures:

1. Reorient or relocate receiving antenna.
 2. Increase the separation between the equipment and receiver.
 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 4. Consult the dealer or an experienced Radio/TV technician for help.
- If there is any trouble, disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by one of the specified Telian Corporation factory service centers. If the known working phone does not operate properly, consult with your telephone company
 - The unit should not be placed in room where the temperature is less than 5°C (41°F) or greater than 40°C (104°F).
 - The unit should be situated so that the location or position does not interfere with its proper ventilation. Allow 4”(10Cm) clearance around the unit.

should be unplugged from the household AC outlet.

- The antenna of the portable handset should not be touched during use for best performance.
- The possible calling distance may be shortened when the unit is used in the following places : near obstacles such as hills, tunnels, underground, near metal objects such as wire fence.
- Do not place heavy objects on top of this unit.
- Place the unit on a flat level surface, or use the wall mounting Adaptor for wall installation. Damp basements should also be avoided.
- Do not subject this unit to excessive smoke, dust, mechanical vibration, shock, or direct sunlight.

CAUTION: Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FEATURES

This section lists the major features and function of the cordless telephone.

1. GENERAL

- 1). 40 channel 2.4GHz Digital Cordless Telephone, automatic selection of the clearest channel.
- 2). Digital Sampling by Internal CODEC of Merlin ; noise suppression
- 3). Antenna : External antenna on handset & base set
- 4). Low battery alert for the handset
- 5). Handset battery charging indicator on the base
- 6). Out of range alert (handset)
- 7). Battery life
 - Talk time : more then 3.5 hours
 - Stand-by : more then 8 days
- 8). Table/Wall convertible (base unit)
- 9). Hearing Aid Compative (HAC)
- 10). Use replaceable handset battery

2. BASE KEYS AND INDICATORS

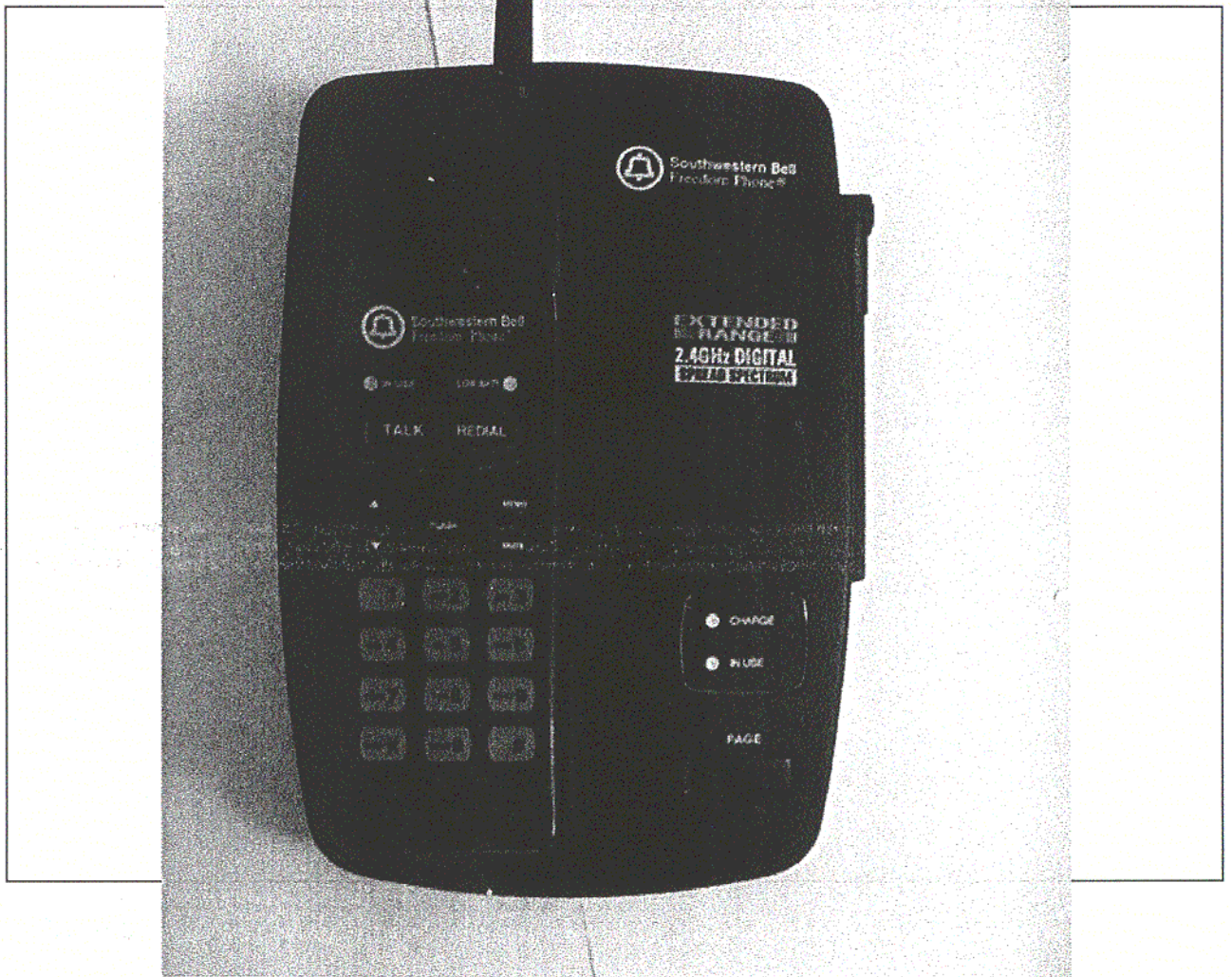
- 1). Page Key
- 2). Indicator
 - Charge/Page LED
 - In-use LED
- 3). One RJ-11 jack
- 4). Charge contacts
- 5). External antenna
- 6). Desk/Wall bracket

3. HAND KEYS

- 1). Dial keypad
- 2). Volume Control keys (▼,▲)
- 3). Memory Key - Memory store and dial
- 4). TALK key (press once to talk, press again to hang up) putting handset in cradle also hangs up
- 5). REDIAL/PAUSE key
- 6). MUTE Key
- 7). FLASH Key

4. SWITCHES

- 1). Receiver volume control 4 – step : on front of handset
- 2). Handset and BASE : Ringer ON/OFF control on bottom of handset.



■ GH2405MS FEATURE LIST ■

A. HAND SET

- * 40 RADIO CHANNELS
- * FLASH (HOOK)
- * MEMORY (16 DIGITS X 20 LOCATIONS)
- * INDICATORS : 2 LED (IN USE/LOW BATTERY)
- * REDIAL (32 DIGITS)
- * TEMPORARY TONE DIALLING MODE
- * FUNCTION KEY
 - TALK, REDIAL/PAUSE, MEMORY, MUTE, FLASH
- * VOLUME CONTROL : UP/DOWN (4-STEP)

B. BASE SET

- * PAGING : ONE WAY
- * INDICATORS : 2 LEDs (IN USE, CHARGE/PAGE)
- * SWITCH : TONE /PULSE MODE

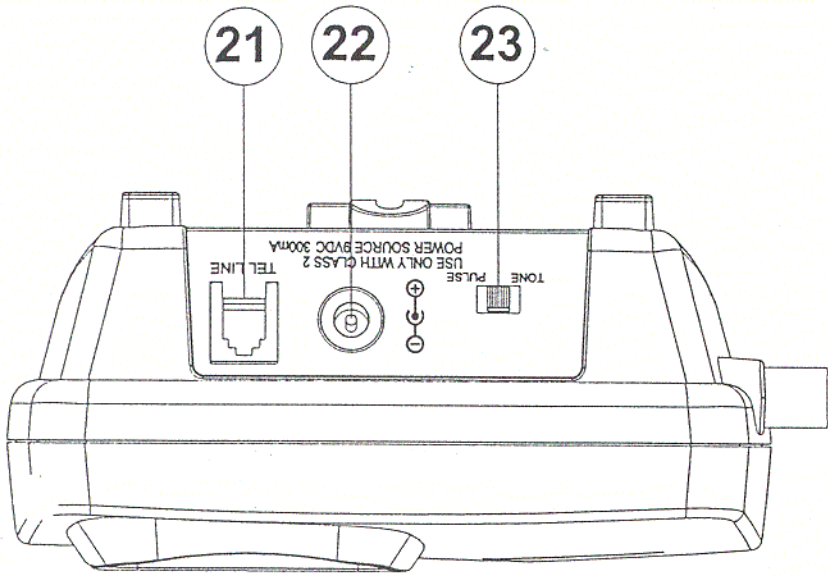
◆ SPECIFICATION (PRELIMINARY) ◆

1. GENERAL

| | | |
|---|---|--|
| * FREQUENCY (Base/Hand) | : | RX/TX 2.4048GHz ~ 2.475GHz |
| TDD(Time Division Duplex) | : | TX on:0.97mS, RX on:1.03mS |
| * NUMBER OF CHANNEL | : | 40 CHANNELS |
| * CHANNEL SPACE | : | 1.8MHz |
| * USABLE SENSITIVITY PORCESSING GAIN | : | SHELL BE AT LEAST 10dB |
| * R.F OUTPUT POWER | : | Hi:18dBm, MID:9dBm, Low:0dBm |
| * TYPE OF MODULATION | : | DBPSK |
| | | |
| * ID CODE | : | MORE THAN 2 ²⁴ (EEPROM) |
| * BATTERY CAPACITY | : | CAPACITY : 600mAH (3.6V) TALK TIME : 3.5 HOURS STAND-BY TIME : 8DAYS |
| *ADAPTOR | : | 9.0VDC / 300mA |
| * WEIGHT | : | HANDSET (INCLUDING BATTERY) : 228.5g BASE : 353.5g |

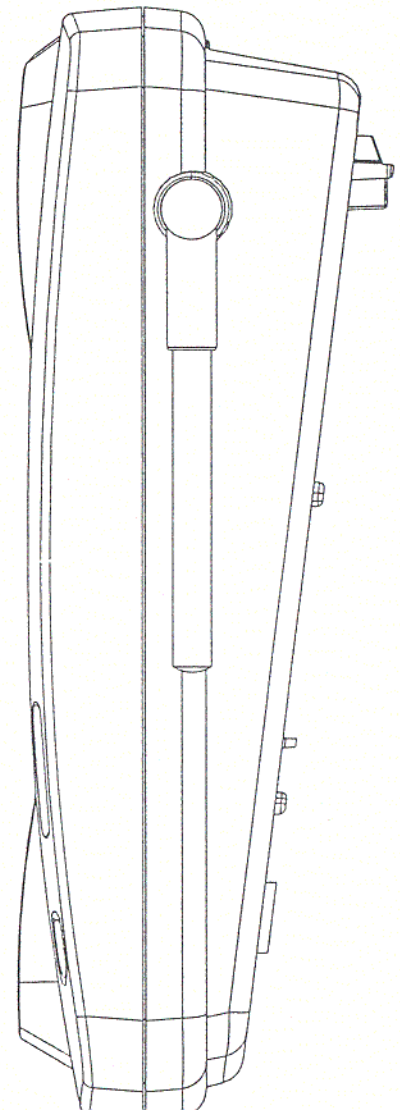
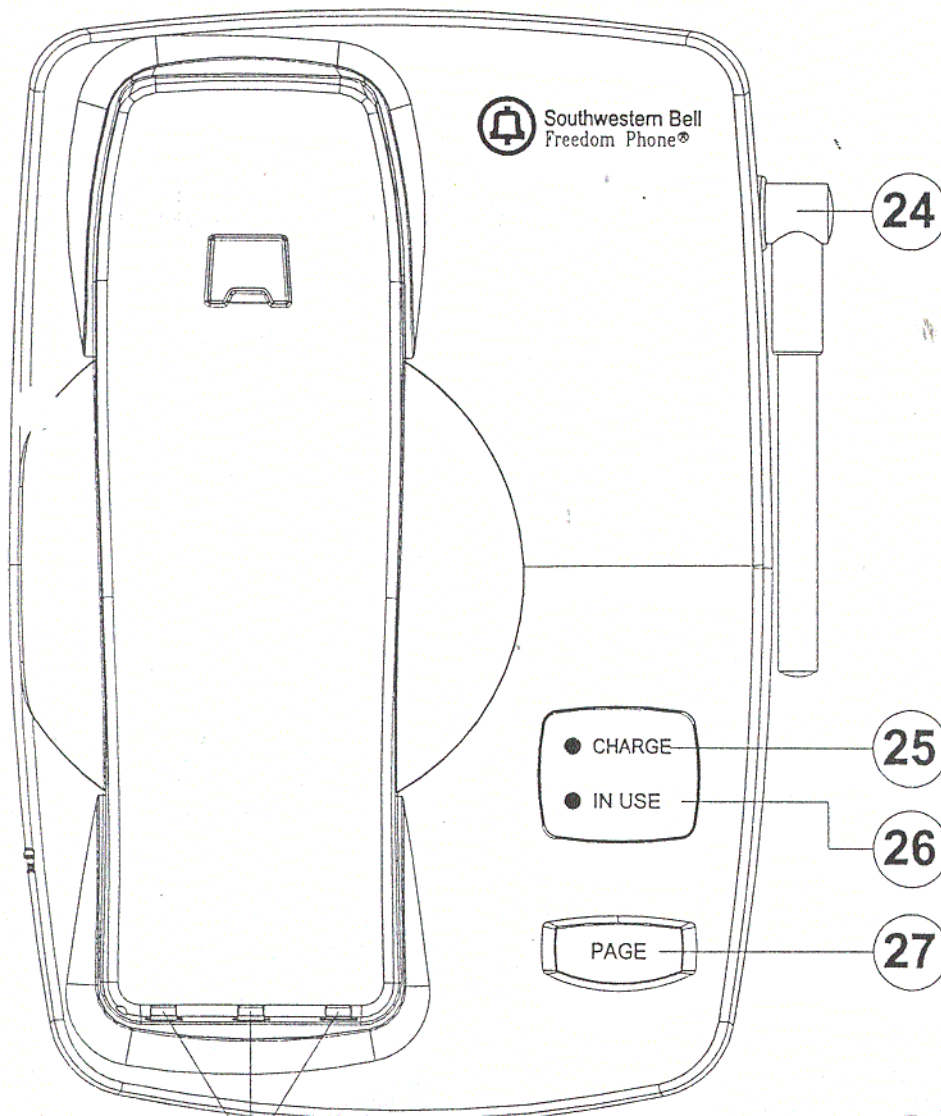
2. TELEPHONE

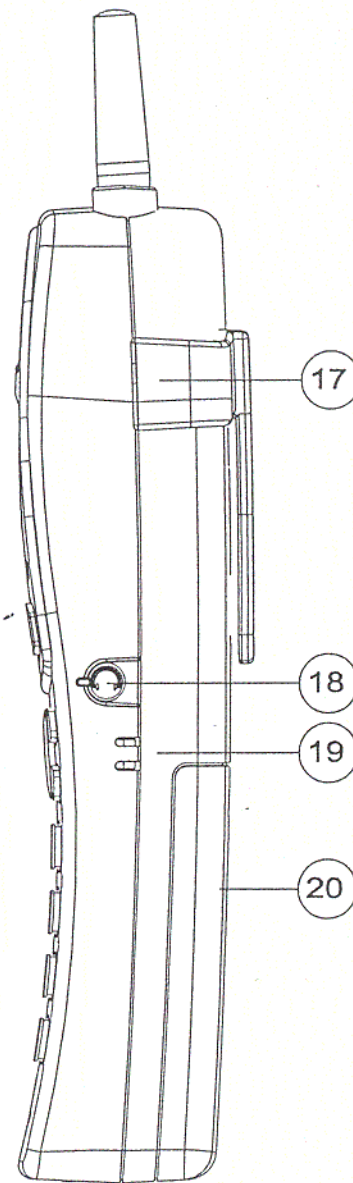
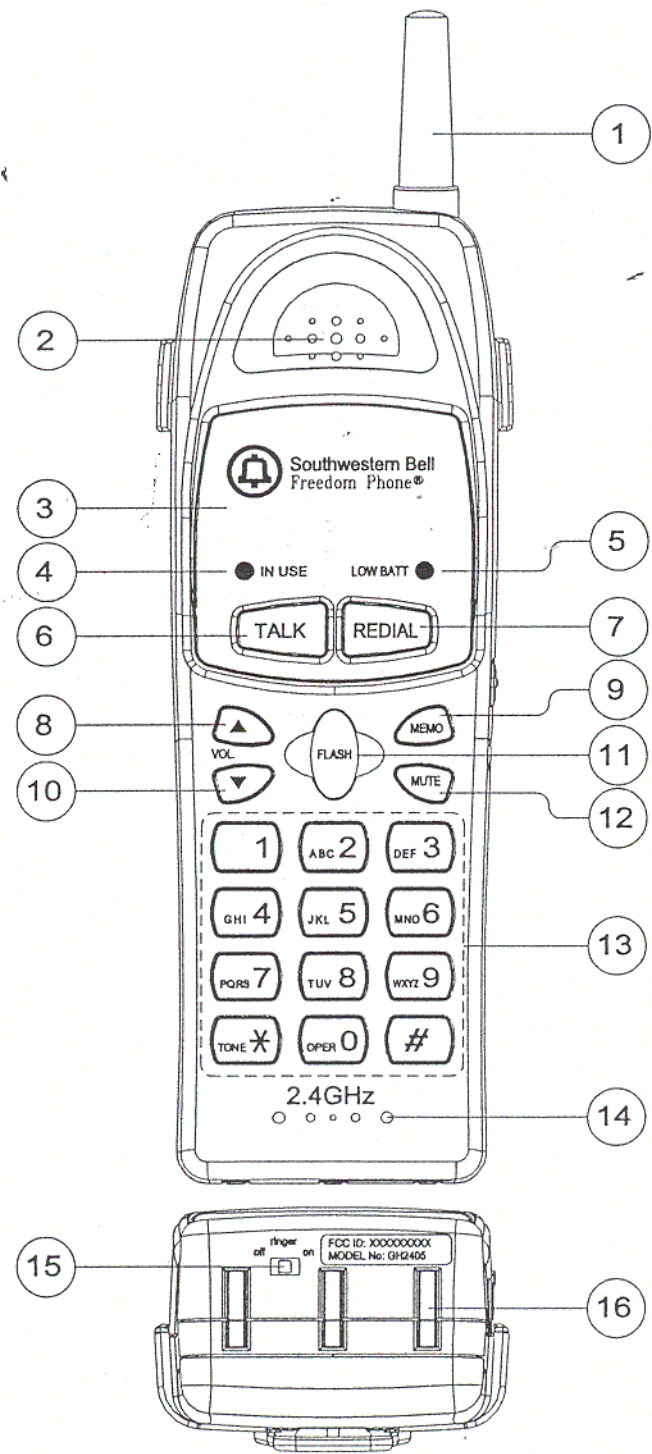
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|-----------------------------------|---|--|
| * OFF-HOOK RESISTANCE | : | MAX 330 Ω (ON 20mA LOOP CONDITION) |
| * ON HOOK IMPEDANCE | : | MIN 30 KΩ (FREQUENCY 15.8Hz ~ 68Hz) |
| * RETURN LOSS (600 ohm) | : | MIN 12dB |
| * TRANSMISSION (OREM-A) - 0 Km | : | SLR : +7.5dB ± 3dB RLR : -4 ± 3dB S.T : MIN + 9.5dB |
| * FLASH TIME | : | 620ms ± 50ms |
| * DTMF DURATION | : | SIGNAL : 100ms ± 10ms PAUSE : 100ms ± 10ms |
| * DTMF LEVEL | : | HIGH GROUP : -2.5 ± 2dBm LOW GROUP : -4.5 ± 2dBm TWIST : LESS THAN 4dB |
| * I.D.P | : | 700ms |
| * BREAK RATIO | : | 2 : 3 |
| * PULSE SPEED | : | 10 PPS |
| * L.N.D | : | 24 DIGIT |
| * MEMORY | : | 16 DIGIT x 20 LOCATIONS |
| * PAUSE TIME | : | 2 SEC |
| * RING TURN-ON VOLTAGE | : | LESS THAN 45Vrms |



MODEL : GH2405

- 21. Telephone line cord socket
- 22. Power supply socket-9VDC/300mA
- 23. Tone/pulse switch
- 24. Base antenna
- 25. Charge LED indicator
- 26. In use LED indicator
- 27. Page
- 28. charging contacts





MODEL : GH2405

1. Antenna
2. Earpiece
3. Window LED
4. In use LED indicator
5. Low battery LED indicator
6. Talk
7. Redial
8. Volume up
9. Memo
10. Volume down
11. Flash
12. Mute
13. Keypad digits
14. Microphone
15. Ringer on/off switch
16. Contact charge
17. Clip belt
18. Headset cover
19. Buzzer
20. Door, battery