

**2500 DMGC ANALOG TELEPHONE SET**  
**WITH MESSAGE WAITING, TIMED RECALL, AND THREE LEVEL VOLUME**  
**CONTROL**

**1. GENERAL**

**1.01** This practice contains information for the 2500 DMGC analog telephone set (Fig. 1). The 2500 DMGC telephone set is used with DIMENSION®, SYSTEM 85, AND SYSTEM 75 PBXs.

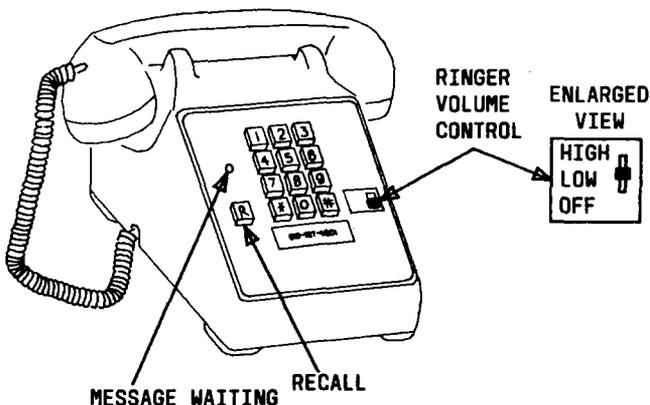
**1.02** Whenever this practice is reissued, the reason(s) for reissue will be listed in this paragraph.

**1.03** The 2500 DMGC contains a touch-tone telephone dial, message indicator, timed recall button, and a three-position volume control on the front of the set. The set can be used on a desk, table, or suitable flat surface.

**1.04** The 2500 DMGC is compatible with the following adjuncts:

- Adjunct Dialer
- SPOKESMAN® Loudspeaker
- External Speakerphone (4A or 10A)

**1.05** This set weighs approximately 2 pounds 8 ounces with physical dimensions of 9.0 inches long, 5.0 inches wide, and 4.5 inches deep.



**Figure 1.** 2500 DMGC Telephone Set

**2. IDENTIFICATION**

**A. Ordering Guide**

**2.01** Ordering guide for the 2500 DMGC telephone set consisting of the telephone set, handset, handset cord, and line cord is as follows:

- Set, Telephone, 2500 DMGC - (see Table A for color suffix and comcode)

**TABLE A**  
**TELEPHONE SET ORDERING GUIDE**

COLOR	SUFFIX	COMCODE
Black	003	103 966 214
Ivory	050	103 966 222
Green	051	103 966 230
White	058	103 966 248
Light Beige	060	103 966 255

**B. Telephone Set Components**

**2.02** The set consists of the following components. Consult the material catalog for availability.

- Base, Telephone Set, 2500 DMGC
- 840393888 Number Card
- Cord, Handset, H4DU - (see Table B for color suffix)
- Main Printed Wiring Board Assembly
- Faceplate Assembly (see Table C for colors and comcodes)
- Housing and Plunger Assembly
- Recall Button
- Switch Cover
- Volume Control Switch
- 72-Type Dial
- Child Printed Wiring Board.

- 812558039 Card Retainer
- Cord, Line D2R-29 (7-foot)
- Handset, G15A - (see Table B for color suffix)

**TABLE B  
COLOR ORDERING GUIDE**

COLOR	SUFFIX
Black	003
Ivory	050
Green	051
White	058
Light Beige	060

**TABLE C  
FACEPLATE ORDERING GUIDE**

SET COLOR	FACE PLATE COLOR	COMCODE
Black	Charcoal	818 986 070
Ivory	Muted Ivory	818 986 080
Green	Light Green	818 986 071
White	Light Gray	818 986 073
Light Beige	Muted Beige	818 986 075

**C. Options**

**2.03** The following options are available:

- Adjunct Dialer
- SPOKESMAN, Loudspeaker
- 10A Speakerphone
- Cord, Line D2R-29 (optional lengths 14- or 25-foot)
- Cord, Handset H4DU - (optional lengths 12- or 25-foot).

**D. Design Features**

**2.04** The following are design features:

- Touch-tone dial
- Modular cords
- G-type handset
- Message indicator

- Timed recall button
- Three-position volume control.

**3. INSTALLATION**

**A. Cabling Distance**

**3.01** The 2500 DMGC telephone set is used as a desk set. Cabling distance between the set and the common equipment is determined by the PBX and the gauge wire being used. For System 85 and System 75 cabling distance can be 20,000 feet with 24 gauge wiring and 13,000 feet with 26 gauge wiring. For DIMENSION cabling distance can be 15,000 feet with 24 gauge wiring. The current cannot be less than 20 mA for any distance.

**B. Location**

**3.02** Locate the 2500 DMGC telephone set where it will be convenient for the user. Do not place the set where it will be exposed to extreme heat (over 120 degrees F or 48 degrees C), extreme cold (40 degrees F or 5 degrees C), or the weather. The set can operate in a noncondensing relative humidity range from 20 to 90 percent. Locate the set and cabling in an environment with an RF level less than 2 volts per meter. Provide a separation of 12 inches or more between the set and line cord and office equipment or power line cords; for example, typewriter, teletypewriter, arc welder.

**C. Power**

**3.03** The 2500 DMGC telephone set receives power from the common equipment interface over the 2-wire line cord. The pair provides power from the voice and touch-tone circuit and the message waiting circuit. The voice and touch-tone circuit requires a minimum of 20 mA current. The message waiting circuit requires a minimum battery voltage of 17 volts on the Tip and Ring interface while the set is on-hook.

**D. Installation Procedure**

**3.04** To install a set, proceed as follows:

- (1) Plug one end of the handset cord into the handset.

- (2) Plug the other end of the handset cord into the jack on the side of the telephone.
- (3) Plug the line cord into the jack on the back of the telephone.
- (4) Plug the other end of the line cord into the modular wall jack.
- (5) Fill out the number card and place it and the number card retainer on the telephone set.

- Handset Cord, H4DU - (see Table B for color suffix)
- Line Cord, D2R-29 (7-foot)
- 84039388 Number Card
- 812558039 Card Retainer
- Faceplate Assembly (see Table C for colors and comcodes)

#### E. Installation Tests

**3.05** Make a test call to determine if you can hear and be heard. Have someone call the extension and check the three volume control settings. Answer the call and use the Recall button. Call the message center and have them turn on the message waiting signal to the extension.

#### 4. OPERATION

**4.01** The red Message indicator is controlled by a signal generated by the common equipment. The indicator flashes when the signal is present approximately once every second. The message waiting indicator also flashes until the message(s) is retrieved. When the set is off-hook, the message waiting indicator stops flashing. The message waiting indicator flashes for the following conditions:

- Momentarily when the set goes off-hook
- Momentarily when the set goes on-hook
- Momentarily when the Recall button is pressed
- Flutters (following the ringing voltage) when the set is rung.

**4.02** The Recall button  generates a switchhook flash that is timed for 600 to 800 ms.

**4.03** The three-position volume control switch offers three settings for the ringer (OFF, LOW, and HIGH). Selections are made by placing the slide switch beside the desired setting.

#### 5. MAINTENANCE

Field replaceable parts consist of the following:

- Handset G15A - (see Table A for color suffix)