



CONSTRUCTION AND  
MAINTENANCE PRACTICES  
OUTSIDE PLANT

SECTION 23

PART 101

DESCRIPTION OF  
332-TYPE TELEPHONE SET FOR  
SUBSCRIBERS WITH IMPAIRED HEARING

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101. 1      DESCRIPTION: The 332-type handset telephone is a Western Electric Company telephone set similar to a 302-type set and is equipped with a 111B mechanical amplifier which provides increased receiving volume for subscribers with impaired hearing. The 111B amplifier is comprised of a permanent magnet-type receiver unit and a granular carbon transmitter unit with a common diaphragm and case. It is connected in the receiver circuit with a small resistance network which provides a volume control. The maximum gain is approximately 25 db. Connected across the transmitter unit of the amplifier is a 129F condenser which prevents cohering and the accompanying loss in transmitting volume which may result from dialing or switching operations.	
101. 1-a    The righthand switchhook plunger operates two combinations of springs which provide the amplifier switch and volume control.	
101. 1-b    Resonators are added to both ringer gongs which increases their volume, particularly at the lower frequencies which are more effective for many persons with impaired hearing.	

101.1-c Telephone sets for manual service are coded 332AW-3 and those intended for dial service are coded 332CW-3.

101.1-d A D5AA five conductor line cord is usually furnished with the set. Two conductors are for connection to the line and two are battery leads. The fifth conductor is used when a ground is required to the set.

101.2 OPERATION: The set is normally supplied with the amplifier connected in the receiver circuit when the handset is removed. By raising the right-hand plunger above its normal position, the amplifier is disconnected. The set wiring can be changed to provide the opposite operation in cases where the person with the impaired hearing is not the most frequent user of the set.

101.2-a Rotating the right-hand plunger in either direction controls the level of the receiving volume; The control is in three steps, low, medium, and high which are indicated on the plunger by the letters, L, M and H. The position in use is that facing the front of the set. Two M positions are furnished on opposite sides of the plunger so that when the plunger is rotated in either direction an increase or decrease in volume of only one step at a time is obtained.

101.2-b When the amplifier is set at maximum gain, the handset has a tendency to howl when placed near a reflecting surface and may howl when being placed to the ear. By holding the receiver against the ear or reducing the gain, the howling can be stopped. For this reason, the amplifier should be used at the lowest gain setting which will provide satisfactory hearing volume.