



Magneto Telephones

CATALOG BULLETIN NO. 2

AUG. 1, 1912

GENERAL

THERE is a Western Electric type of telephone to satisfactorily meet all standard service conditions. For special requirements such as mines, railways, etc., there are special telephones.

Over 7,000,000 Western Electric telephones are in daily use throughout the world, handling efficiently both local and long distance telephone messages.

Our enormous output enables us to purchase our raw material in large quantities at a low cost. This, together with unequalled manufacturing facilities, makes it possible for us to offer our standard telephones at most reasonable prices.

Large and complete stocks are carried in our distributing houses, which are located in twenty-five principal cities of the United States. This insures prompt filling of orders, together with a saving in transportation, as our prices are f. o. b. the distributing house.

The prices in this bulletin are list.

Design and Construction

Cabinets: The cabinets of all wooden wall telephones are constructed of carefully selected oak, and are given a durable, attractive finish. Nickel-plated trimmings are used throughout.

A special feature of these telephones is the location of the main binding posts inside the cabinet. This prevents trouble from tampering with the connections.

The backboards of the wall sets are slotted to permit of the line wires entering the set either from above or below. All the interior wiring is in cable form. A wiring diagram is furnished with each set.

Desk Stands: The desk stands are carefully designed and constructed of the best materials obtainable. The working parts are held firmly within the upright tube or handle, and by taking out only one screw can be removed as a unit for the purpose of connecting or disconnecting the cords or for inspection.

The finish of our desk stands is either heavy nickel plate or a special dull finish black japan.

Transmitters: Western Electric transmitters are uniform in quality, and will retain their efficiency over long periods of service. They have high transmission efficiency over long as well as short lines. They are designed to be insensible to extraneous noises which, if picked up, render conversation difficult.

For local battery service, two cells of dry battery are all that will be required for ordinary service. Three cells are recommended, however, when maximum transmission is desired, as in the case of long distance connections.

Receivers: The receivers are efficient, compact, and even if subjected to severe usage require no adjustment after leaving the factory.

Ringers: The bells or ringers have a specially loud, clear tone, and operate on minimum current. The impedance of our ringers is extremely high, thus making it possible to connect large numbers of sets on one circuit without interfering with signaling or transmission efficiency. They are so designed that it is almost impossible for them to get out of adjustment. Their construction and arrangement are such that adjustment, when necessary, can be made easily and quickly.

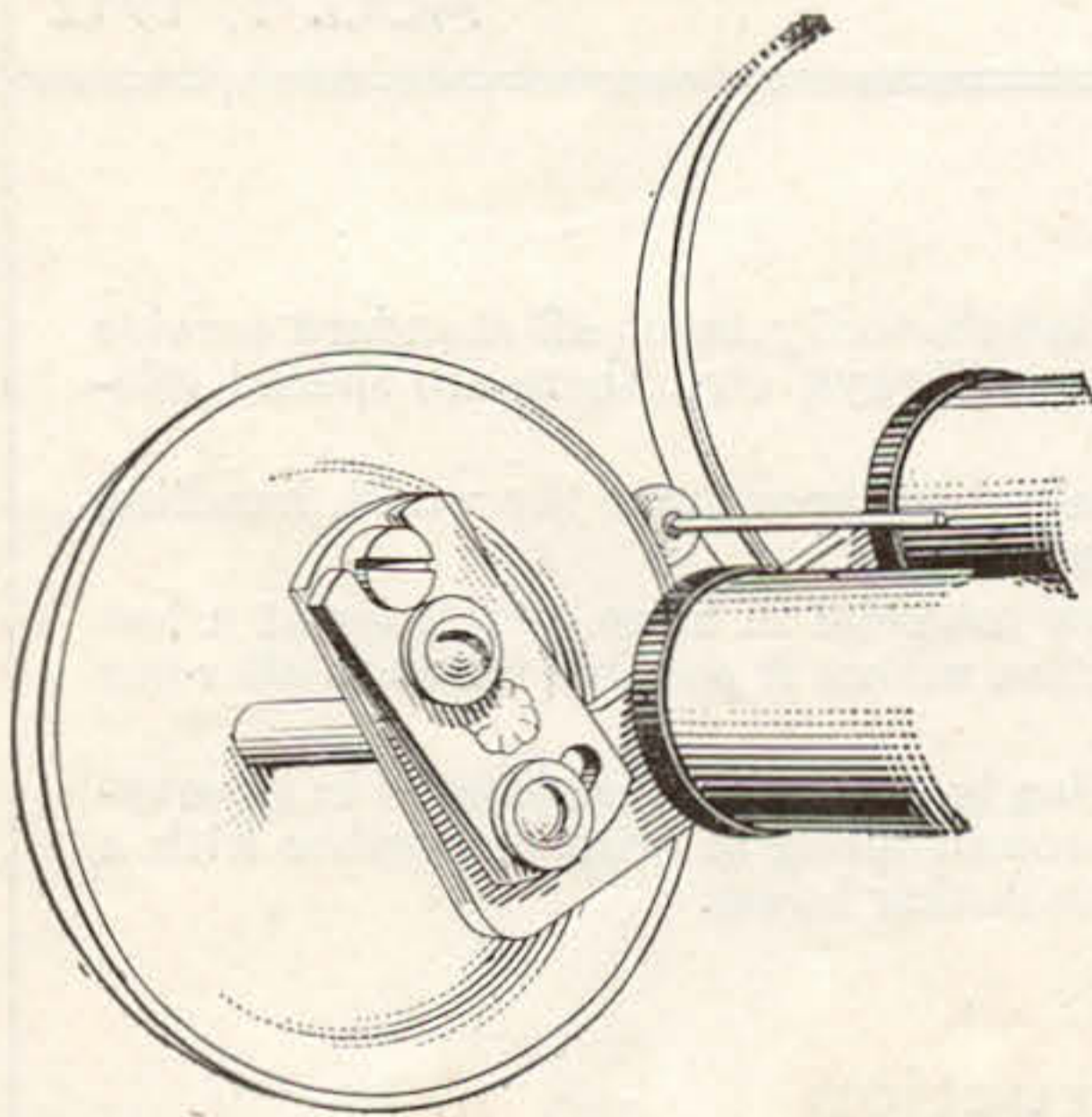
MAGNETO TELEPHONES

Design and Construction (Continued)

Our No. 38 type ringer has 3-inch loud-ringing gongs. To adjust these, it is only necessary to use an ordinary screw driver. The clamping screws need merely be loosened and the eccentric turned.

The adjustment of the armature is equally simple and is accomplished by manipulating the central screw.

Generators: The 5-bar magneto generator used in our magneto telephones is the strongest 5-bar hand generator made, and under working conditions has been found to be from 13 to 70% more efficient than any other 5-bar hand generator on the market. It is of compact, durable construction, with large bearings for revolving parts. The armature is automatically disconnected from the line when not in use, and is normally short-circuited to protect it from lightning. The generator will ring the equivalent of more than 40 of our 2500-ohm ringers on a 30-mile full metallic circuit of No. 12-BWG iron wire. The generator crank is made in one piece and is strong, durable, and neat in appearance.

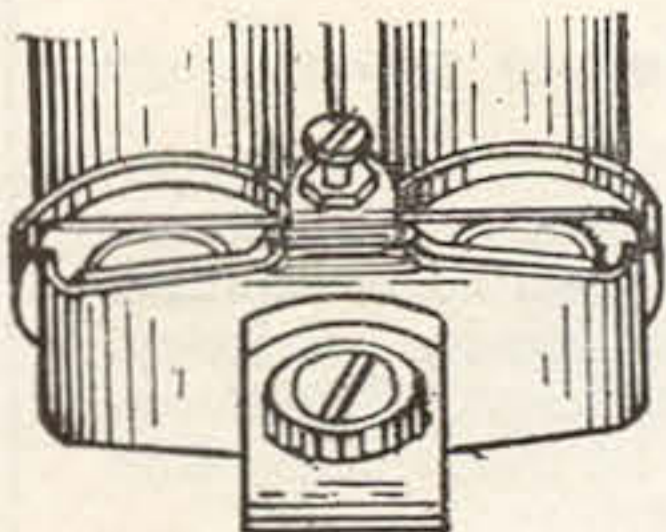


Adjustment of Gongs on the No. 38 Type Ringer Accomplished by Means of a Screw-driver

In the **four-party selective ringing system using pulsating current**, four telephones may be connected to a metallic circuit and signaled selectively. The ringers in these telephone sets are biased, and two ringers are connected to ground from each side of the line. One ringer on each side of the line is arranged to operate on positive pulsating current and the other ringer on each side of the line is arranged to operate on negative pulsating current. The cord circuits at the central office are so wired that positive or negative pulsating current may be sent out over either side of the line to ground by means of a special key for each cord circuit or a master key for an operator's position.

The **center checking system** is used on toll lines where it is desired to have several stations on one line and yet require all of them to secure connections through one office. The ringers at the stations are all biased one way and bridged across the line. They are operated from the central office either by alternating current or by pulsating current in one direction only. The generators at the stations are all arranged to furnish pulsating current of the polarity which does not ring the bells, and accordingly it is impossible for one party on the line to call another except through the center checking operator. The central office has a bridged drop operated by the pulsating current, and the central office operator signals the parties on the line by means of a code system.

In the **selective central office signaling system**, a large number of subscribers may be connected on one line and arranged so that they can call each other without signaling the central office, or they may call the central office without notifying the other parties on the line. This is accomplished by bridging the telephones across the line and wiring them so that the generator is normally connected to the two sides of the line, but may be switched by the subscriber so that it is bridged between one side of the line and ground. At the central office, the drop is connected between one side of the line and ground.



Adjustment of Armature of No. 38 Type Ringer is Accomplished by Means of a Screw-driver

If the subscriber operates the generator in the usual way without operating the switch, he will ring the other bells on the line. If, however, he operates the switch before turning the generator crank, he will throw the drop at the central office and the bells on the line will not sound. Some telephone sets are equipped with push buttons for signaling the central office, and other sets are provided with extra contacts on the switch hook, so that if the generator crank is turned after the receiver has been removed from the switch hook, the central office will be called.

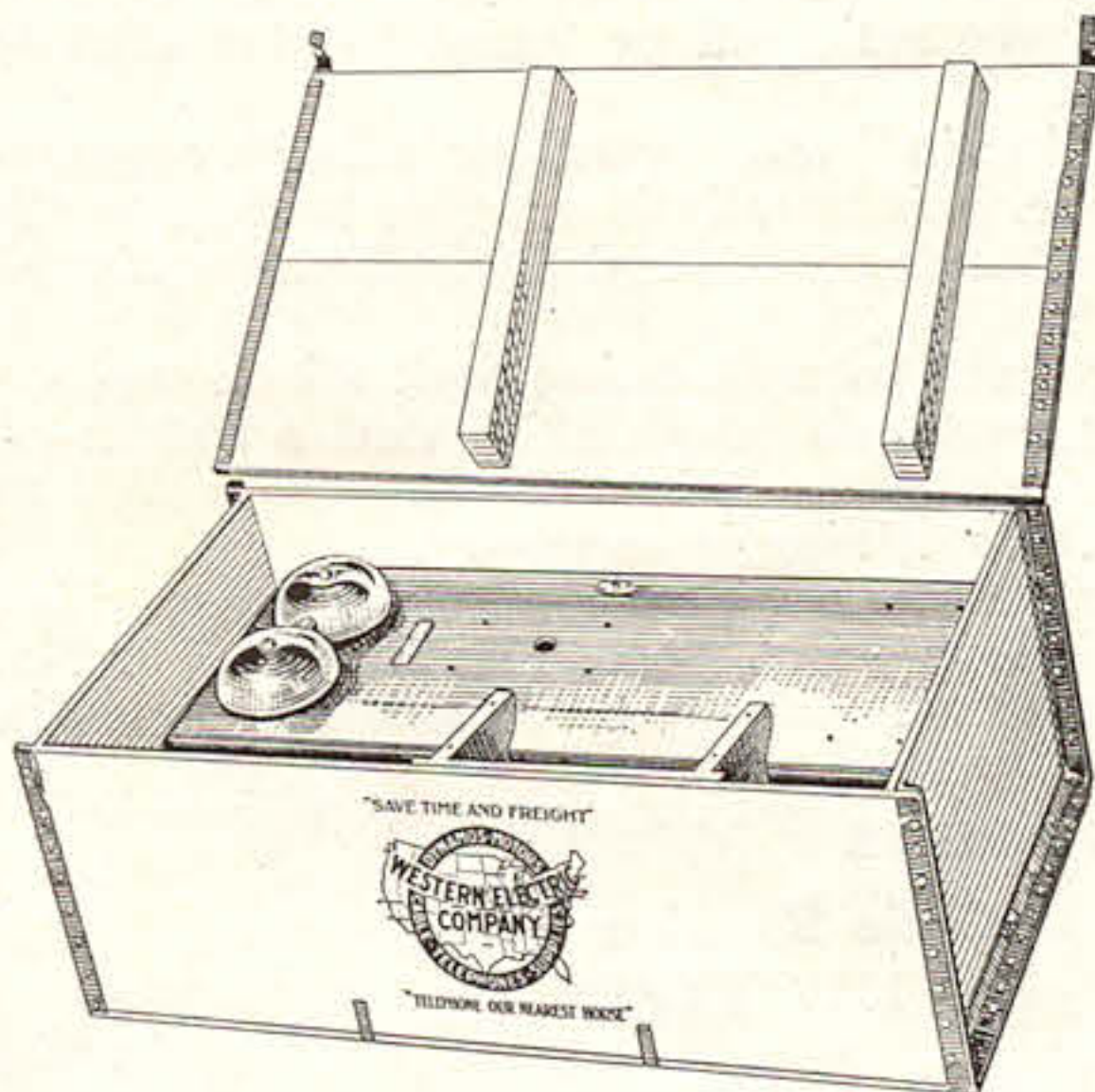
Magneto Signaling Systems

In the **code ringing system**, a large number of parties may be connected to one line, all of the ringers at the telephone stations and the central office drop being bridged across the line. Whenever a party on the line operates his hand generator, all of the ringers in the other telephone sets and the central office drop are operated. When the central office operator rings on the line, all the bells are sounded. The party wanted is called by a code system made up of various numbers of long and short rings.

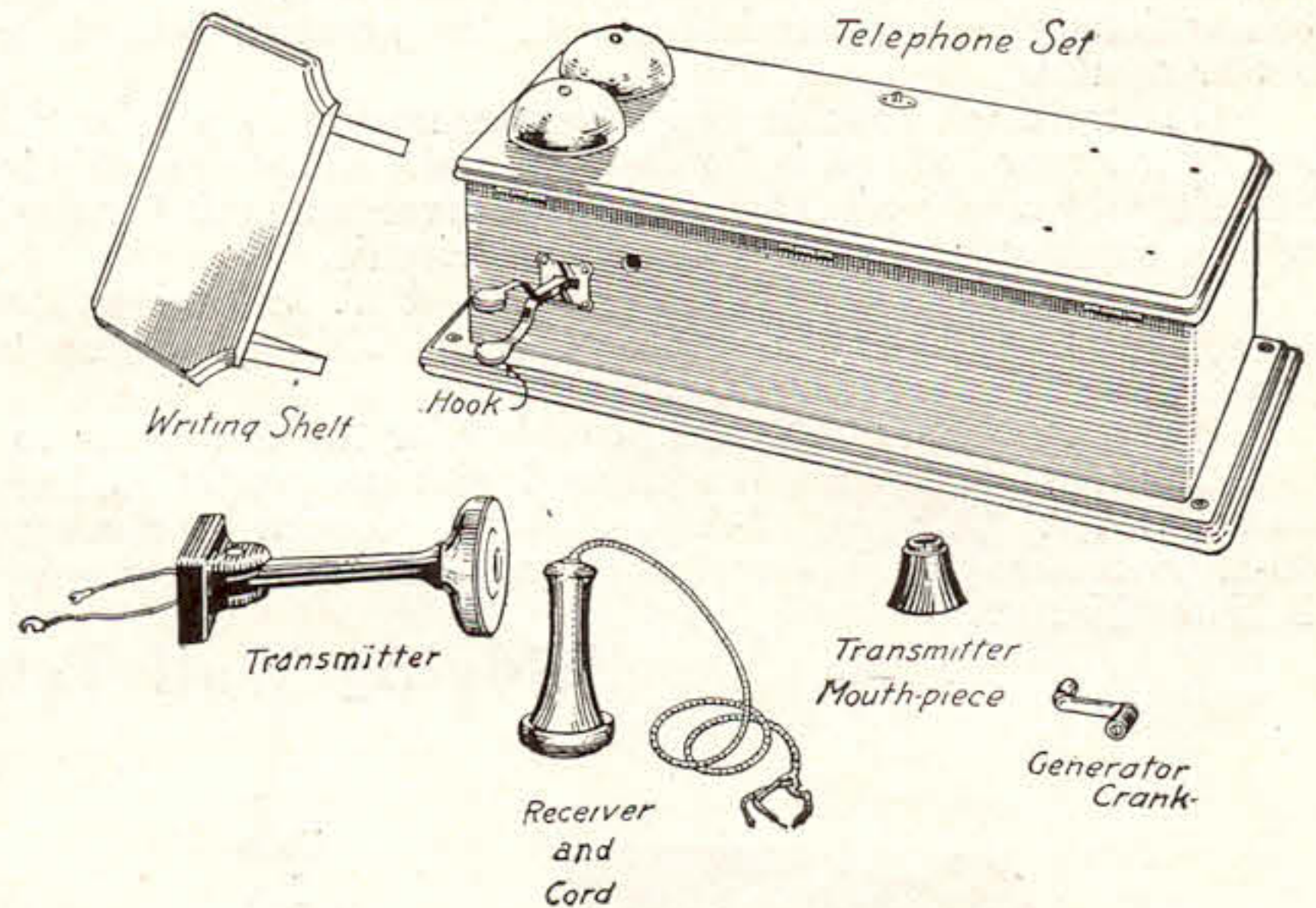
In the **harmonic selective ringing system**, selective signaling is secured by properly tuning the ringers to operate on different frequencies. Four frequencies at a constant voltage are used, $16\frac{2}{3}$ cycles, $33\frac{1}{3}$ cycles, 50 cycles, and $66\frac{2}{3}$ cycles. Special keys are provided at the switchboard so that either four parties with bridged ringers or eight parties with grounded ringers can be signaled selectively. For outgoing calls, the central office only can be signaled.

MAGNETO TELEPHONES

Simplified Packing



No. 1317-Type Telephone in Individual Packing Case



No. 1317-Type Telephone Removed from Packing Case before assembling

All No. 1317-type telephones are shipped semi-knockdown, in individual packing cases measuring approximately 8 x 12 x 22 inches. The transmitter, receiver, writing shelf, generator crank, and mouth-piece are detached and, with the exception of the writing shelf, are packed inside the cabinet. This method economizes a great deal of storage space, amounting to nearly 30% over the old method of packing telephones with the transmitter and writing shelf attached.

There is also a considerable saving due to the fact that a telephone can be delivered complete to the subscriber in its original box. There is much less danger of its becoming scratched or broken in handling between the stock room and the subscriber's premises. It further saves many delays, because the installer is sure to have all the necessary parts on hand when he is ready to place the instrument and connect it to the line.

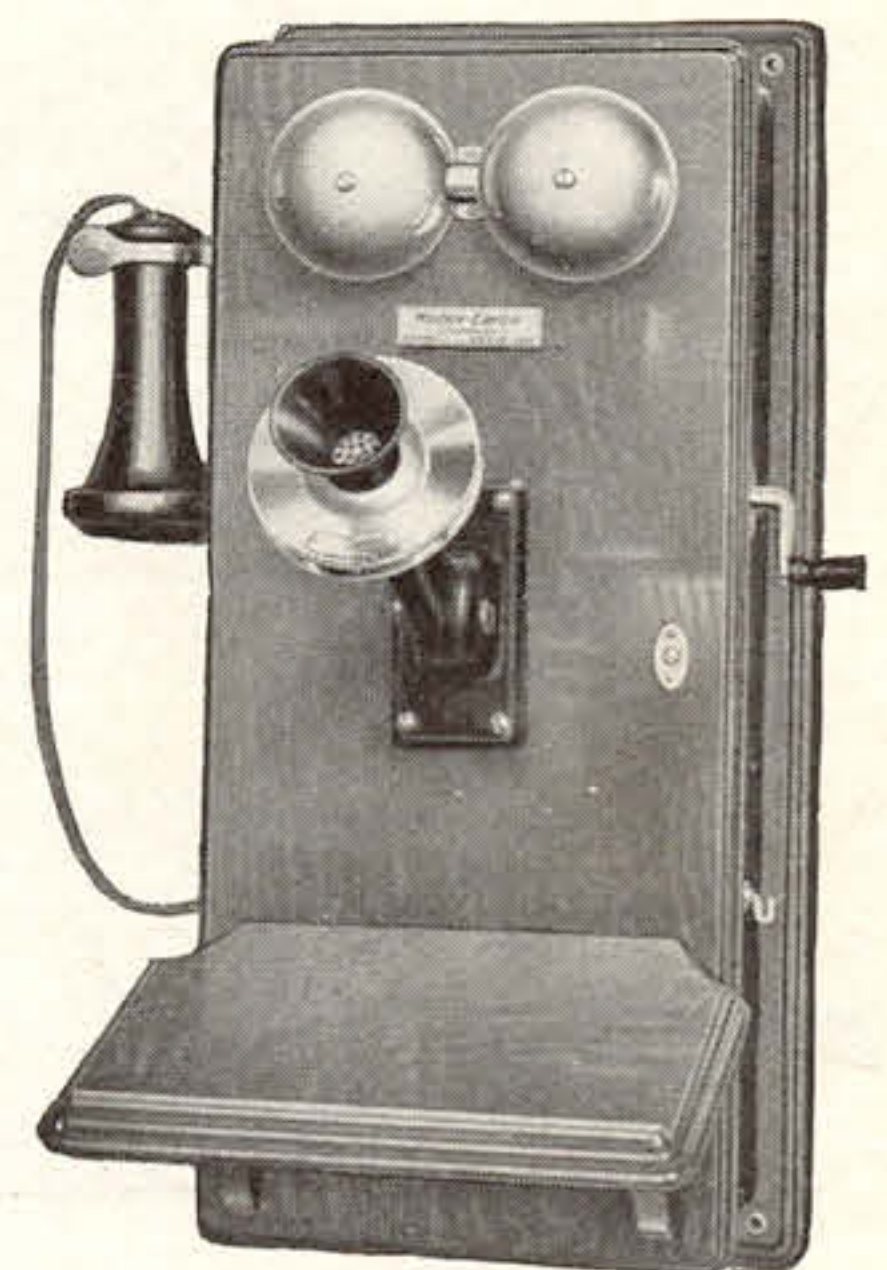
Each box is plainly marked with the code number of the telephone which it contains.

Assembly

It must not be assumed, however, that a great amount of work is necessary to assemble the telephone after unpacking, as the following operations only are necessary:

1. Fasten the writing shelf on the door of the cabinet. The necessary screws are furnished and holes are drilled in the door.
2. Fasten the transmitter on the door. The necessary screws are furnished and holes are drilled.
3. Attach the two wires leading from the transmitter arm to the screw terminals on the back of the door.
4. Connect up the receiver and place it on the hook.
5. Screw the mouthpiece and generator crank in place.

Time consumed, 10 minutes; a screw-driver the only tool used.



No. 1317-Type Telephone Completely Assembled

Magneto Telephones

MAGNETO TELEPHONES

General Information

Batteries are not shipped with telephones unless specified on the order. We recommend two or three cells of Blue Bell dry battery, according to the service. For a local exchange and toll service, two cells will be found entirely satisfactory. If, however, the telephones are to be used on extremely long distance connections where transmission is of the greatest importance, three cells will be found to give slightly better results.

On rural lines, trouble sometimes occurs due to parties "listening in" whenever their bells ring regardless of whether the call is for them or not. Whenever this is done, it is usually impossible to ring on the line after the receiver is off the hook. To overcome this feature it is customary to furnish telephones equipped with a condenser wired in the receiver circuit.

The Nos. 1317 R. & S. and 1305 S. & T. wall telephones and the corresponding desk telephones are so equipped, and all other Nos. 1317 and 1305 telephones have terminals provided so that a condenser can be connected at any time.

Screw mounting holes are provided for the condenser so that no drilling is necessary.

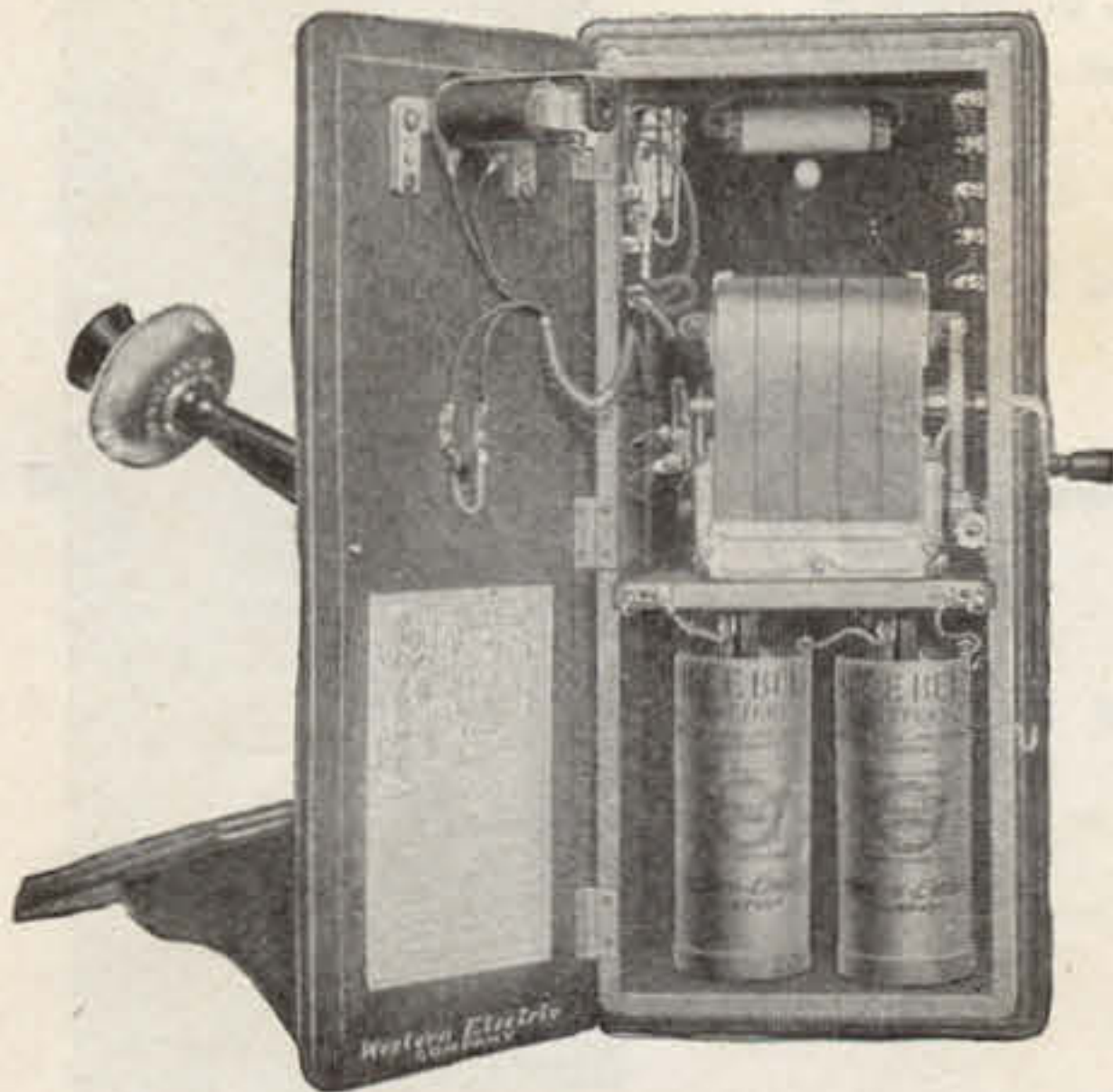
Our telephones are not equipped with protectors, and protectors are not furnished unless so specified on the order. Our No. 12-A protector is standard for magneto telephone service. The No. 60-A or No. 60-E protectors are also used when a lightning arrester only is desired. These protectors are listed in Bulletin No. 12.

Bridging Wall Telephones

Code Ringing No. 1317 TYPES



No. 1317 - Type Telephone



No. 1317 N or P, Open

Code No.	Description	List Price each
No. 1317-N. For moderate load service		
1317-N	This telephone does the same work as the No. 1305-R. It is arranged to be equipped with a condenser wired in the receiver circuit. When so equipped it is known as the No. 1317-R. Includes 1 No. 38-FG 1600-ohm ringer, 1 No. 48-A 5-bar A. C. generator, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 250-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 2 battery connecting cords.....	\$15.40
	Same, equipped with No. 122-W or 144-W receiver.....	15.75
No. 1317-P. For heavy load service		
1317-P	This telephone does the same work as the No. 1305-M and No. 6004-B. It is arranged to be equipped with a condenser wired in the receiver circuit. When so equipped it is known as the No. 1317-S. Includes 1 No. 38-BG 2500-ohm ringer, 1 No. 48-A 5-bar A. C. generator, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 250-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 2 battery connecting cords.....	15.40
	Same, equipped with No. 122-W or 144-W receiver.....	15.75
No. 1317-R. For moderate load service		
1317-R	This telephone does the same work as the No. 1305-S. It is equipped with a condenser wired in the receiver circuit. Includes 1 No. 38-FG 1600-ohm ringer, 1 No. 48-A 5-bar A. C. generator, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 21-W condenser, 1 No. 250-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 2 battery connecting cords.....	16.10
	Same, equipped with No. 122-W or 144-W receiver.....	16.45
No. 1317-S. For heavy load service		
1317-S	This telephone does the same work as the No. 1305-T. It is equipped with a condenser wired in the receiver circuit. Includes 1 No. 38-BG 2500-ohm ringer, 1 No. 48-A 5-bar A. C. generator, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 21-W condenser, 1 No. 250-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 2 battery connecting cords.....	16.10
	Same, equipped with No. 122-W or 144-W receiver.....	16.45

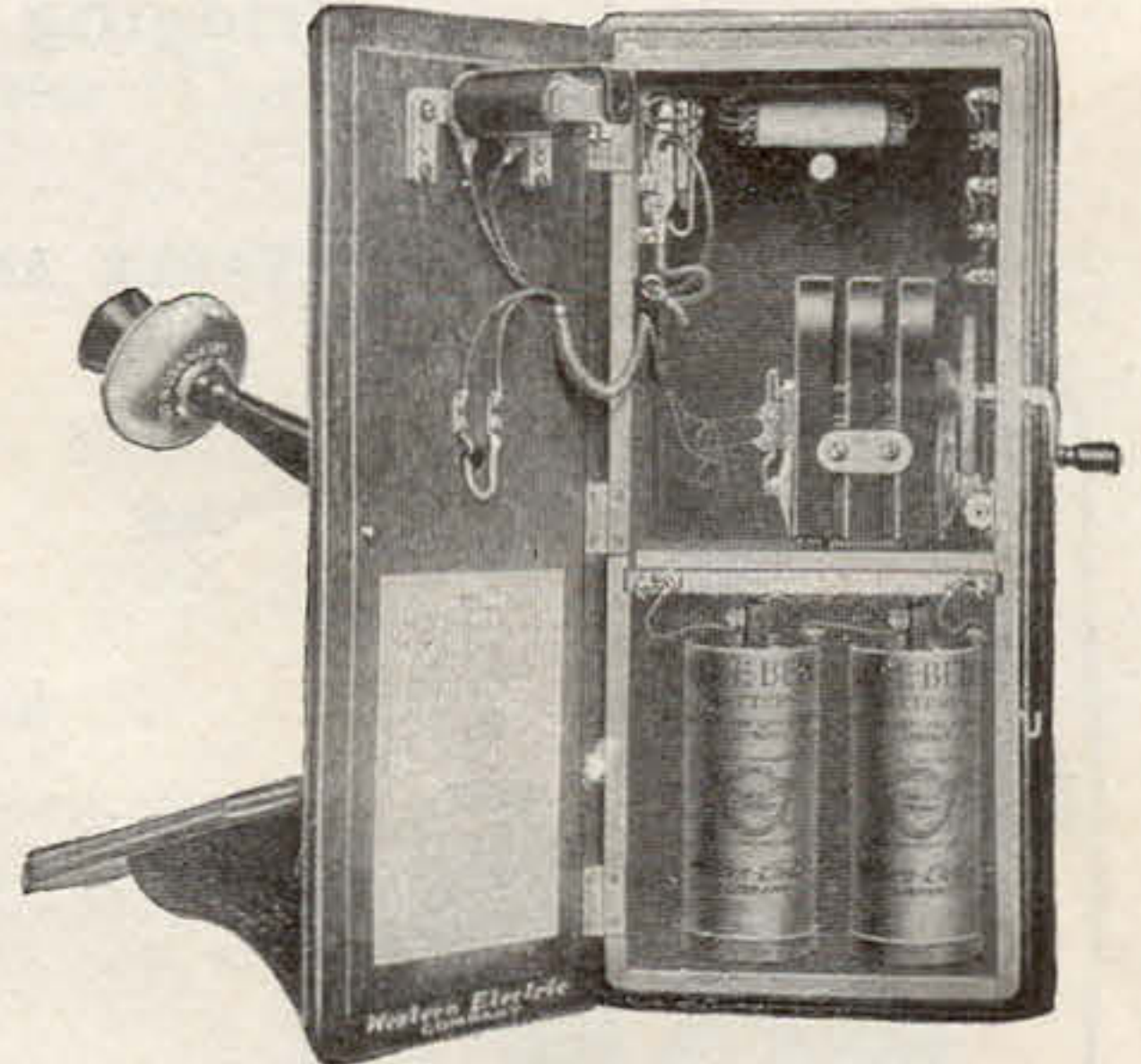
MAGNETO TELEPHONES

Bridging Wall Telephones

Code Ringing

No. 1317 TYPES (Continued)

Code No.	Description	List Price each
No. 1317-AH. For light load service		
1317-AH	This telephone does the same work as the No. 1305-P and No. 6003-B. It is arranged to be equipped with a condenser wired in the receiver circuit, and will be so furnished when specified on the order. Includes 1 No. 38-AG 1000-ohm ringer, 1 No. 22-A 3-bar A. C. generator, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 250-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 2 battery connecting cords.....	\$12.40
	Same, equipped with No. 122-W or No. 144-W receiver.....	12.75



No. 1317-AH. Open

No. 1305 TYPES

List Price each

No. 1305-M. For heavy load service		
1305-M	This telephone does the same work as the No. 1317-P and No. 6004-B. It is arranged to be equipped with a condenser wired in the receiver circuit. When so equipped, it is known as the No. 1305-T set. Includes 1 No. 38-BG 2500-ohm ringer, 1 No. 48-A 5-bar A. C. generator, 1 No. 13 induction coil, 1 No. 143-W switch hook, 1 No. 3-A transmitter bracket, 1 No. 229-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 1 No. 179 5½" cord.....	\$15.40
	Same, equipped with No. 122-W or 144-W receiver.....	15.75

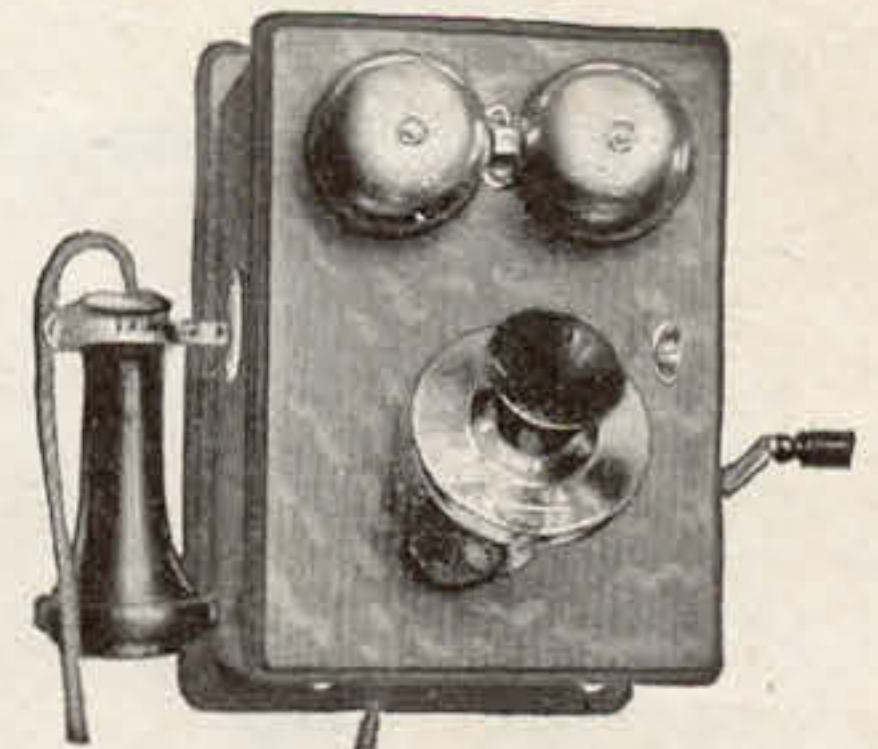
No. 1305-P. For light load service

1305-P	This telephone does the same work as the No. 1317-AH and No. 6003-B. It is arranged to be equipped with a condenser wired in the receiver circuit, and will be so furnished when specified on the order. Includes 1 No. 38-AG 1000-ohm ringer, 1 No. 22-A 3-bar A. C. generator, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 3-A transmitter bracket, 1 No. 229-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 1 No. 179 5½" cord.....	10.90
	Same, equipped with No. 122-W or 144-W receiver.....	11.25

No. 1305-R. For moderate load service

List Price each

1305-R	This telephone does the same work as the No. 1317-N. It is arranged to be equipped with a condenser wired in the receiver circuit. When so equipped, it is known as the No. 1305-S. Includes 1 No. 38-FG 1600-ohm ringer, 1 No. 48-A 5-bar A. C. generator, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 3-A transmitter bracket, 1 No. 229-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 1 No. 179 5½" cord.....	\$15.40
	Same, equipped with No. 122-W or 144-W receiver....	15.75



No. 1305-M-P-R-S

No. 1305-S. For moderate load service

1305-S	This telephone does the same work as the No. 1317-R. It is equipped with a condenser wired in the receiver circuit. Includes 1 No. 38-FG 1600-ohm ringer, 1 No. 48-A 5-bar A. C. generator, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 3-A transmitter bracket, 1 No. 21-W condenser, 1 No. 229-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 1 No. 179 5½" cord.....	\$16.60
	Same, equipped with No. 122-W or 144-W receiver.....	16.95

No. 1305-T. For heavy load service

1305-T	This telephone does the same work as the No. 1317-S. It is equipped with a condenser wired in the receiver circuit. Includes 1 No. 38-BG 2500-ohm ringer, 1 No. 48-A 5-bar A. C. generator, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 3-A transmitter bracket, 1 No. 21-W condenser, 1 No. 229-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 1 No. 179 5½" cord.....	16.60
	Same, equipped with No. 122-W or 144-W receiver.....	16.95

MAGNETO TELEPHONES

Bridging Desk Telephones

Code Ringing

PORTABLE AND FLEXIBLE ARM TYPES

Portable Stand Type

Code No.	Description	List Price each
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No. 6003-B. For light load service

6003-B* This telephone does the same work as the No. 1305-P and No. 1317-AH. Includes 1 No. 315-H desk set box containing 1 No. 38-AG 1000-ohm ringer, 1 No. 22-A 3-bar A. C. generator, 1 No. 13 induction coil, and 1 No. 1020-BC desk stand comprising 1 No. 20-BC desk stand, 1 No. 229-W transmitter, 1 No. 143-W receiver, 1 No. 392 cord.....\$13.40

Same, equipped with No. 122-W or 144-W receiver 13.75

No. 6004-B. For heavy load service

6004-B* This telephone does the same work as the No. 1305-M and No. 1317-P. Includes 1 No. 300-K desk set box containing 1 No. 38-BG 2500-ohm ringer, 1 No. 48-A 5-bar A. C. generator, 1 No. 13 induction coil, and 1 No. 1020-BC desk stand comprising 1 No. 20-BC desk stand, 1 No. 229-W transmitter, 1 No. 143-W receiver, 1 No. 392 cord.....\$17.00

Same, equipped with No. 122-W or 144-W receiver 17.35

FLEXIBLE ARM TYPE

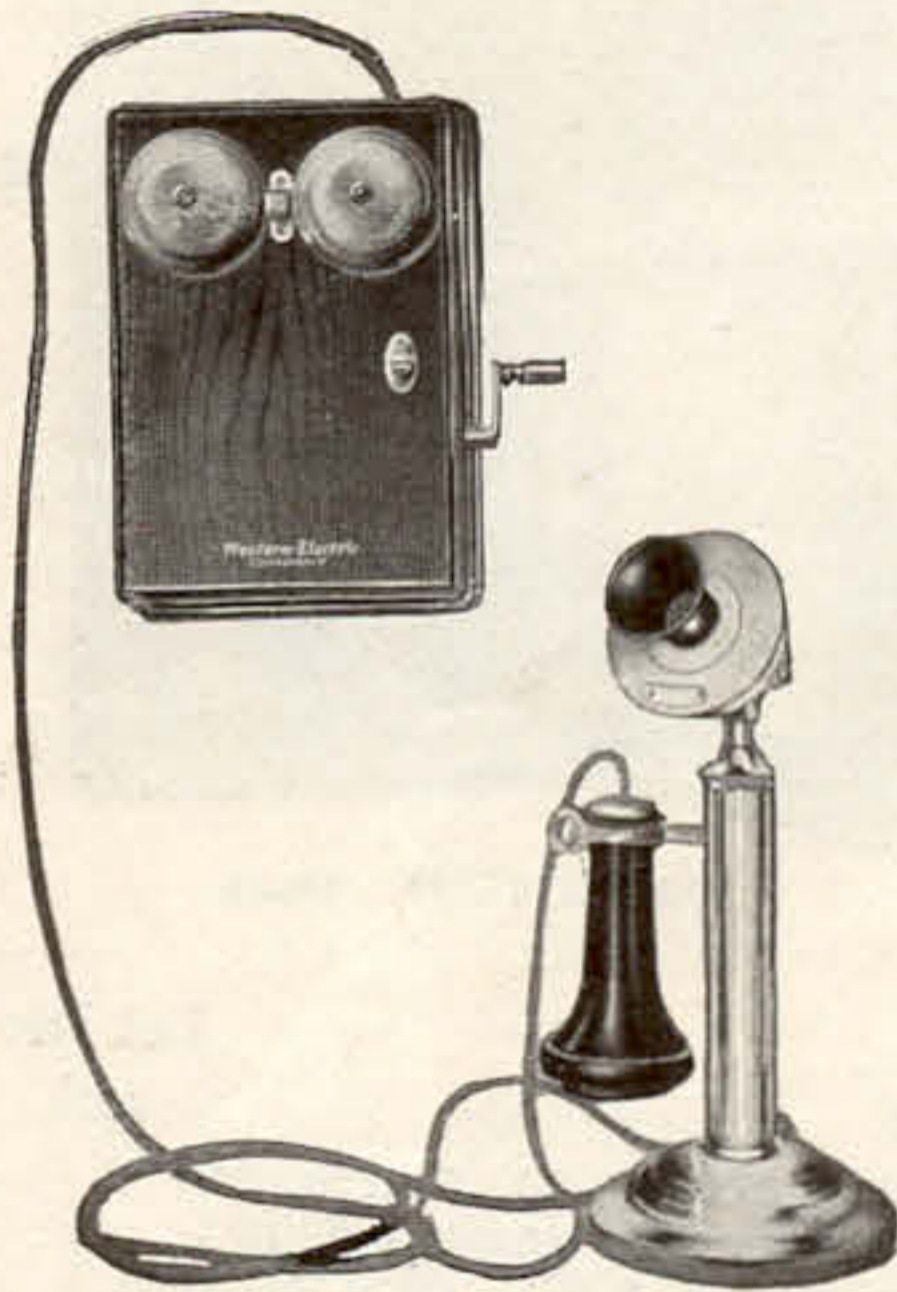
No. 6003-J. For light load service

6003-J Includes 1 No. 315-H desk set box (oak), containing 1 No. 38-AG 1000-ohm ringer, 1 No. 22-A 3-bar A. C. generator, 1 No. 13 induction coil, and 1 No. 1046-AA, AB, or AC telephone arm, depending on whether arm is to be mounted on the side of a roll-top desk, the side of a flat-top desk or the wall, or on the top of a flat-top desk, comprising 1 No. 271-W transmitter, 1 No. 143-W receiver, 1—3' No. 408 cord, 1—6' No. 409 cord, 1—9½" No. 426 cord, and 1—9½" No. 427 cord.....\$20.15

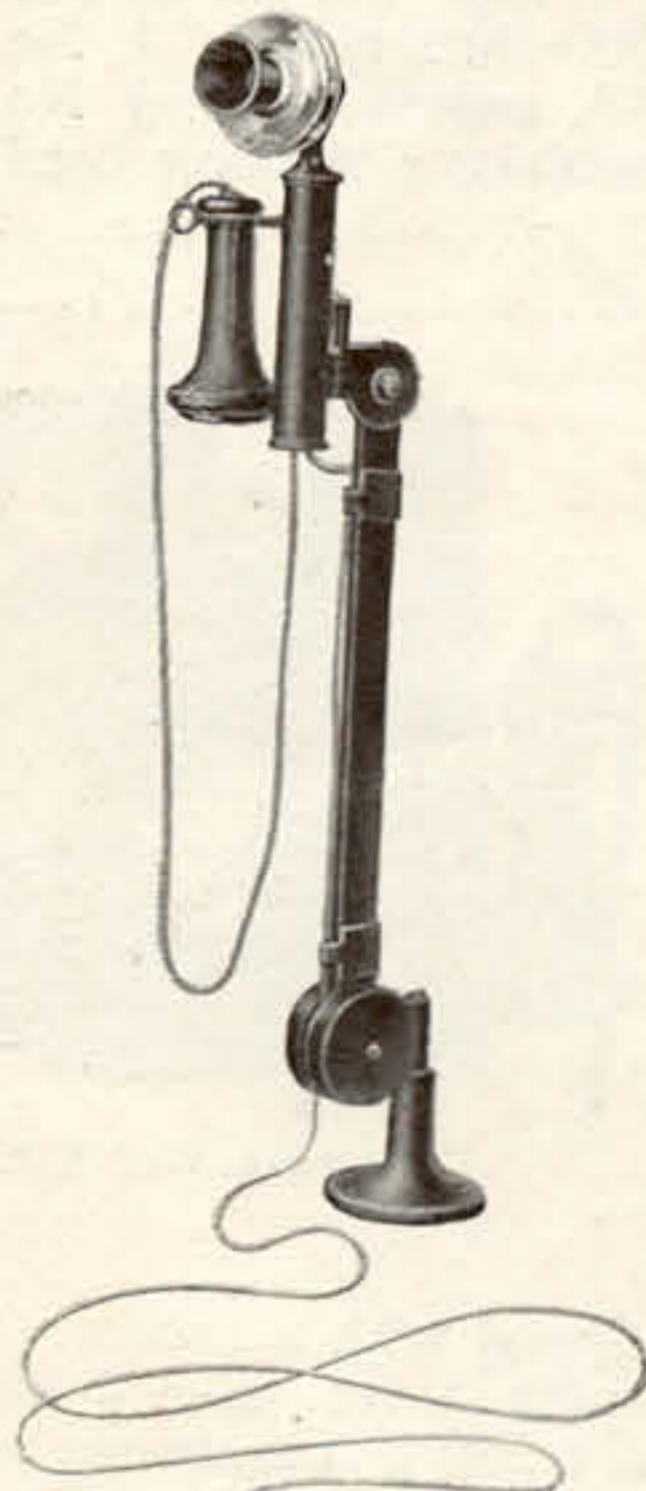
Same, equipped with No. 122-W or No. 144-W receiver..... 20.50

In ordering be sure to specify the type of mounting desired, that is, whether for roll-top desk, wall or flat-top desk.

* Nickel-plated desk stands are furnished unless otherwise specified. If black finish desk stands are wanted, they will be furnished at the same price provided the order reads "with black finish desk stands."



No. 6003-B
 No. 6004-B



No. 6003-J

MAGNETO TELEPHONES

Bridging Desk Telephones (Continued)

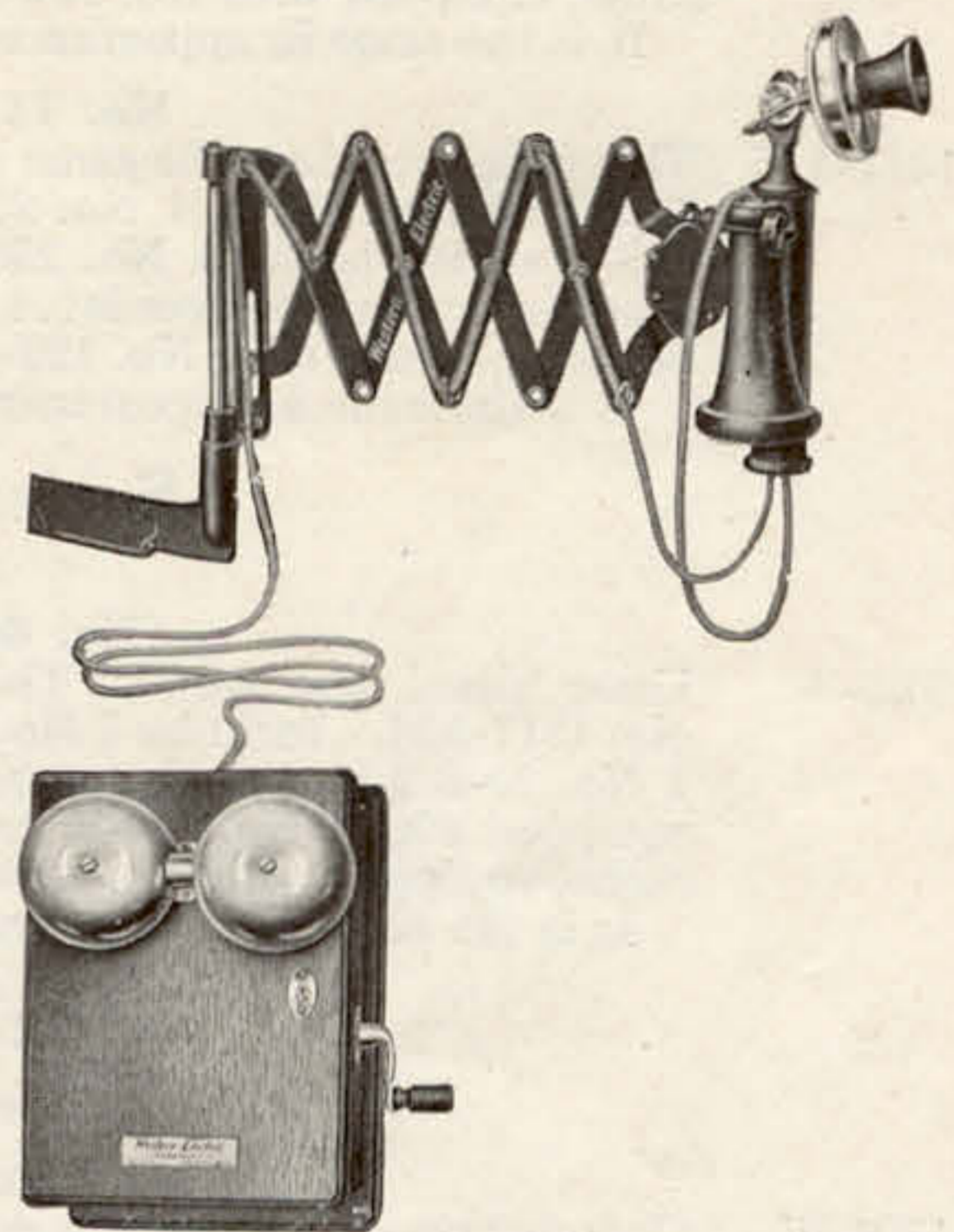
Code Ringing

FOLDING AND SWINGING ARM TYPES

No. 6003-G. Folding Type

Code No.	Description	List Price each
6003-G	For lightly loaded, bridging, magneto telephone lines, using No. 1048 type telephone arm. Includes 1 No. 315-H desk set box (oak), containing 1 No. 38-AG 1000-ohm ringer, 1 No. 22-A 3-bar A. C. generator, 1 No. 13 induction coil, and 1 No. 1048-AA, AB, or AC telephone arm, depending on whether arm is to be mounted on the side of a roll-top desk, the side of a flat-top desk or the wall, or on the top of a flat-top desk, comprising 1 No. 229-W transmitter, 1 No. 143-W receiver, 1—6' No. 180 cord, 1—2½' No. 389 cord, and 1—9½" No. 390 cord	\$15.70
	Same, equipped with No. 122-W or No. 144-W receiver.....	16.05

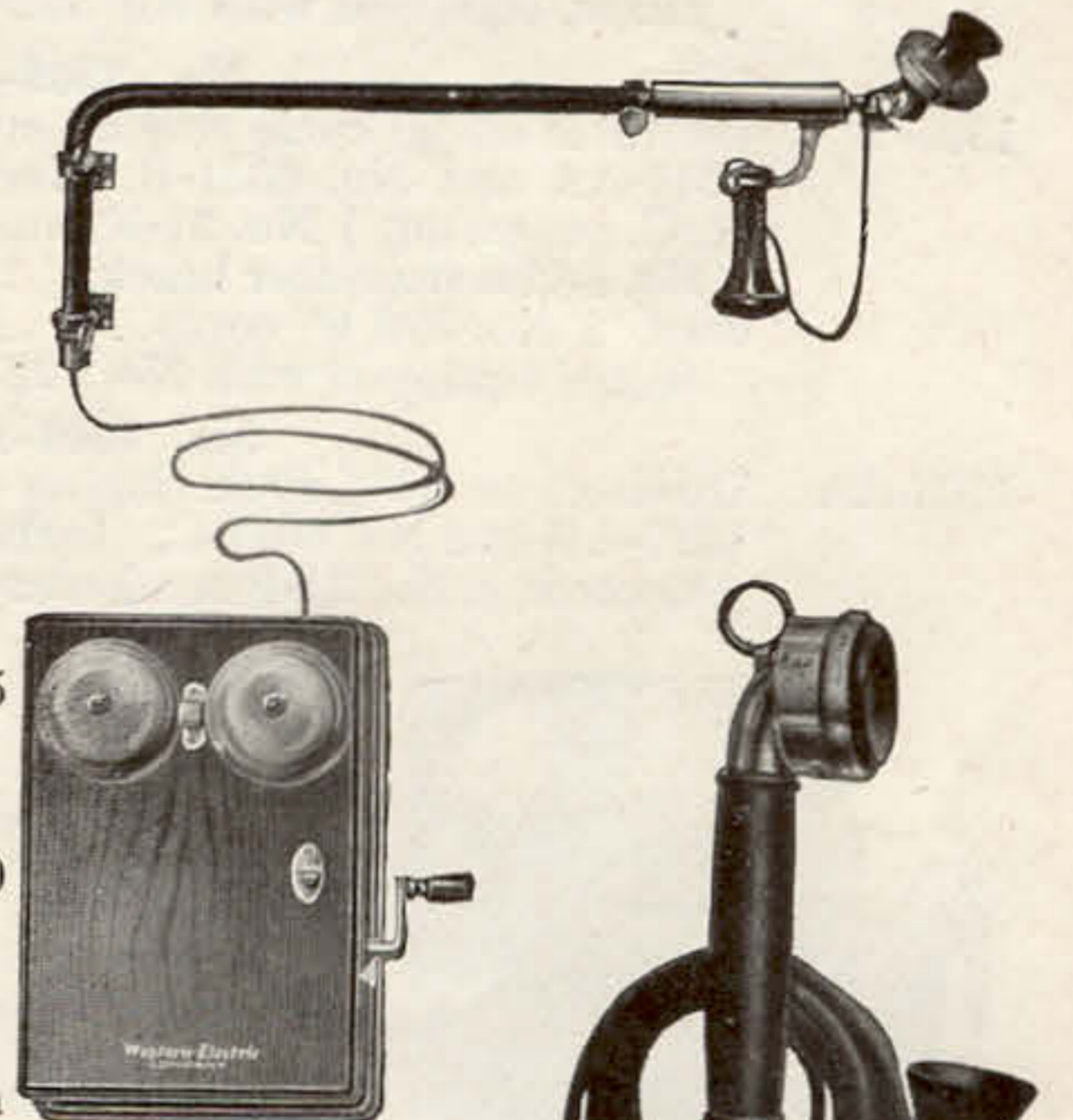
In ordering, be sure to specify the type of mounting desired. That is, whether for roll-top desk, wall or flat-top desk.



No. 6003-G

No. 6003-H. Swinging Type

6003-H	For light load service on flat-top desks using swinging telephone arms. Includes 1 No. 315-H desk set box containing 1 No. 38-AG 1000-ohm ringer, 1 No. 22-A 3-bar A. C. generator, 1 No. 13 induction coil, and 1 No. 1020-AC transmitter arm comprising 1 No. 20-A telephone arm, 1 No. 229-W transmitter, 1 No. 143-W receiver, 1 No. 310 cord.....	\$18.85
	Same, equipped with No. 122-W or 144-W receiver.....	19.20



No. 6003-H

No. 1002-A Hand Set
 Magneto Telephones

Desk Stand, Telephone Arm, or Hand Set Combination

Either the No. 1020-BC desk stand, No. 1046-AA, AB, AC, No. 1048-AA, AB, AC, No. 1020-AC telephone arms, or No. 1002-A hand set can be used in connection with any of the standard magneto or central battery desk set boxes, listed in Catalog Bulletin No. 12, to meet any service requirement.

MAGNETO TELEPHONES

Series* Wall Telephones

Code Ringing

While we do not recommend the use of series telephones, because of the fact that the bridging telephones are so much more efficient both in transmitting and signaling, we are prepared to furnish them if required.

Code No.	Description	List Price each
No. 1305-N. For Series Service		
1305-N	This telephone does the same work as the No. 1317-AM and No. 6025-A. Includes 1 No. 38-JG 50-ohm ringer, 1 No. 22-B 3-bar A. C. generator, 1 No. 13 induction coil, 1 No. 143-B switch hook, 1 No. 3-A transmitter bracket, 1 No. 229-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 1 No. 179 5½" cord.....	\$11.80
	Same, equipped with No. 122-W or No. 144-W receiver.....	12.15
	It is the same in appearance as the No. 1305-W telephone shown on this page.	
No. 1317-AM. For Series Service		
1317-AM	This telephone does the same work as the No. 1305-N and No. 6025-A. Includes 1 No. 38-JG 50-ohm ringer, 1 No. 22-B 3-bar A. C. generator, 1 No. 13 induction coil, 1 No. 143-B switch hook, 1 No. 250-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 2 battery connecting cords.....	\$11.75
	Same, equipped with No. 122-W or No. 144-W receiver.....	12.10
	It is the same in appearance as the No. 1317 type telephone shown on page 4.	

Series* Desk Telephones

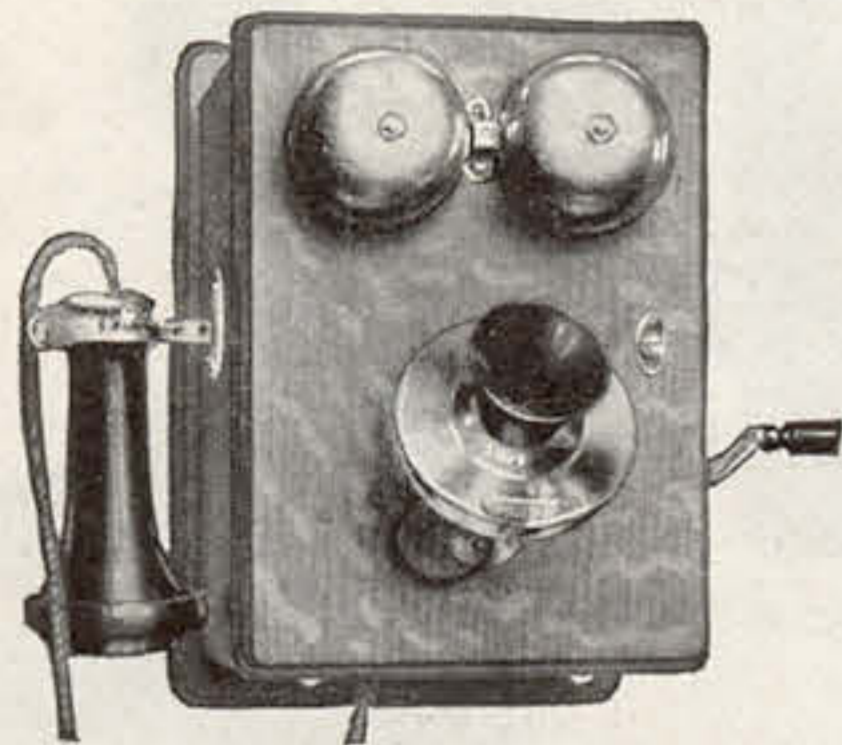
Code Ringing

No. 6025-A. For Series Service		
6025-A	Using nickel desk stand. This telephone does the same work as the No. 1305-N and No. 1317-AM. Includes 1 No. 315-G desk set box containing 1 No. 38-JG 50-ohm ringer, 1 No. 22-B 3-bar A. C. generator, 1 No. 13 induction coil, and 1 No. 20-H desk stand equipped with 1 No. 229-W transmitter, 1 No. 143-W receiver, 1 No. 232 cord.....	\$13.70
	Same, equipped with No. 122-W or No. 144-W receiver.....	14.05
	It is the same in appearance as the No. 6003-B telephone shown on page 6.	

Bridging Wall Telephones

Harmonic Selective Ringing

No. 1305-W. For Harmonic Service		
1305-W	Operates on 33⅓ cycle ringing current. This telephone does the same work as the No. 1317-Y and No. 6031-A. Includes 1 No. 41-SG 460-ohm ringer, 1 No. 22-T 3-bar A. C. generator, 1 No. 21-F condenser, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 3-C transmitter bracket, 1 No. 291-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 2 No. 329 6" cords.....	\$14.80
	Same, equipped with No. 122-W or No. 144-W receiver.....	15.15
No. 1305-Y. For Harmonic Service		
1305-Y	Operates on 50 cycle ringing current. This telephone does the same work as the No. 1317-AA and No. 6031-B. Includes 1 No. 41-TG 460-ohm ringer, 1 No. 22-T 3-bar A. C. generator, 1 No. 21-F condenser, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 3-C transmitter bracket, 1 No. 291-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 2 No. 329 6" cords.....	\$14.80
	Same, equipped with No. 122-W or No. 144-W receiver.....	15.15
No. 1305-AA. For Harmonic Service		
1305-AA	Operates on 66⅔ cycle ringing current. This telephone does the same work as the No. 1317-AB and No. 6031-C. Includes 1 No. 41-UG 460-ohm ringer, 1 No. 22-T 3-bar A. C. generator, 1 No. 21-F condenser, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 3-C transmitter bracket, 1 No. 291-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 2 No. 329 6" cords....	\$14.80
	Same, equipped with No. 122-W or No. 144-W receiver.....	15.15
No. 1305-AB. For Harmonic Service		
1305-AB	Operates on 16⅔ cycle ringing current. This telephone does the same work as the No. 1317-AC and No. 6031-D. Includes 1 No. 41-RG 1800-ohm ringer, 1 No. 22-T 3-bar A. C. generator, 1 No. 21-F condenser, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 3-C transmitter bracket, 1 No. 291-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 2 No. 329 6" cords....	\$15.20
	Same, equipped with No. 122-W or No. 144-W receiver.....	15.55



No. 1305-W-Y-AA or AB

*The term "Series" used in this bulletin in conjunction with Magneto Telephones refers to the method of connecting the ringers, and must not be confused with the term "Series" associated with Central Battery Telephones, which refers to the method of connecting the transmitter and receiver.

MAGNETO TELEPHONES

Bridging Wall Telephones

Harmonic Selective Ringing (Continued)

Code No.	Description	List Price each
	No. 1317-Y. For Harmonic Service	
1317-Y	Operates on 33 $\frac{1}{3}$ cycle ringing current. This telephone does the same work as the No. 1305-W and No. 6031-A. Includes 1 No. 41-SG 460-ohm ringer, 1 No. 22-T 3-bar A. C. generator, 1 No. 21-F condenser, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 270-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 2 battery connecting cords.....	\$15.80
	Same, equipped with No. 122-W or No. 144-W receiver.....	16.15
	No. 1317-AA. For Harmonic Service	
1317-AA	Operates on 50 cycle ringing current. This telephone does the same work as the No. 1305-Y and No. 6031-B. Includes 1 No. 41-TG 460-ohm ringer, 1 No. 22-T 3-bar A. C. generator, 1 No. 21-F condenser, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 270-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 2 battery connecting cords.....	\$15.80
	Same, equipped with No. 122-W or No. 144-W receiver.....	16.15
	No. 1317-AB. For Harmonic Service	
1317-AB	Operates on 66 $\frac{2}{3}$ cycle ringing current. This telephone does the same work as the No. 1305-AA and No. 6031-C. Includes 1 No. 41-UG 460-ohm ringer, 1 No. 22-T 3-bar A. C. generator, 1 No. 21-F condenser, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 270-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 2 battery connecting cords.....	\$15.80
	Same, equipped with No. 122-W or No. 144-W receiver.....	16.15
	No. 1317-AC. For Harmonic Service	
1317-AC	Operates on 16 $\frac{2}{3}$ cycle ringing current. This telephone does the same work as the No. 1305-AB and No. 6031-D. Includes 1 No. 41-RG 1800-ohm ringer, 1 No. 22-T 3-bar A. C. generator, 1 No. 21-F condenser, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 270-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 2 battery connecting cords.....	\$16.15
	Same, equipped with No. 122-W or No. 144-W receiver.....	16.50



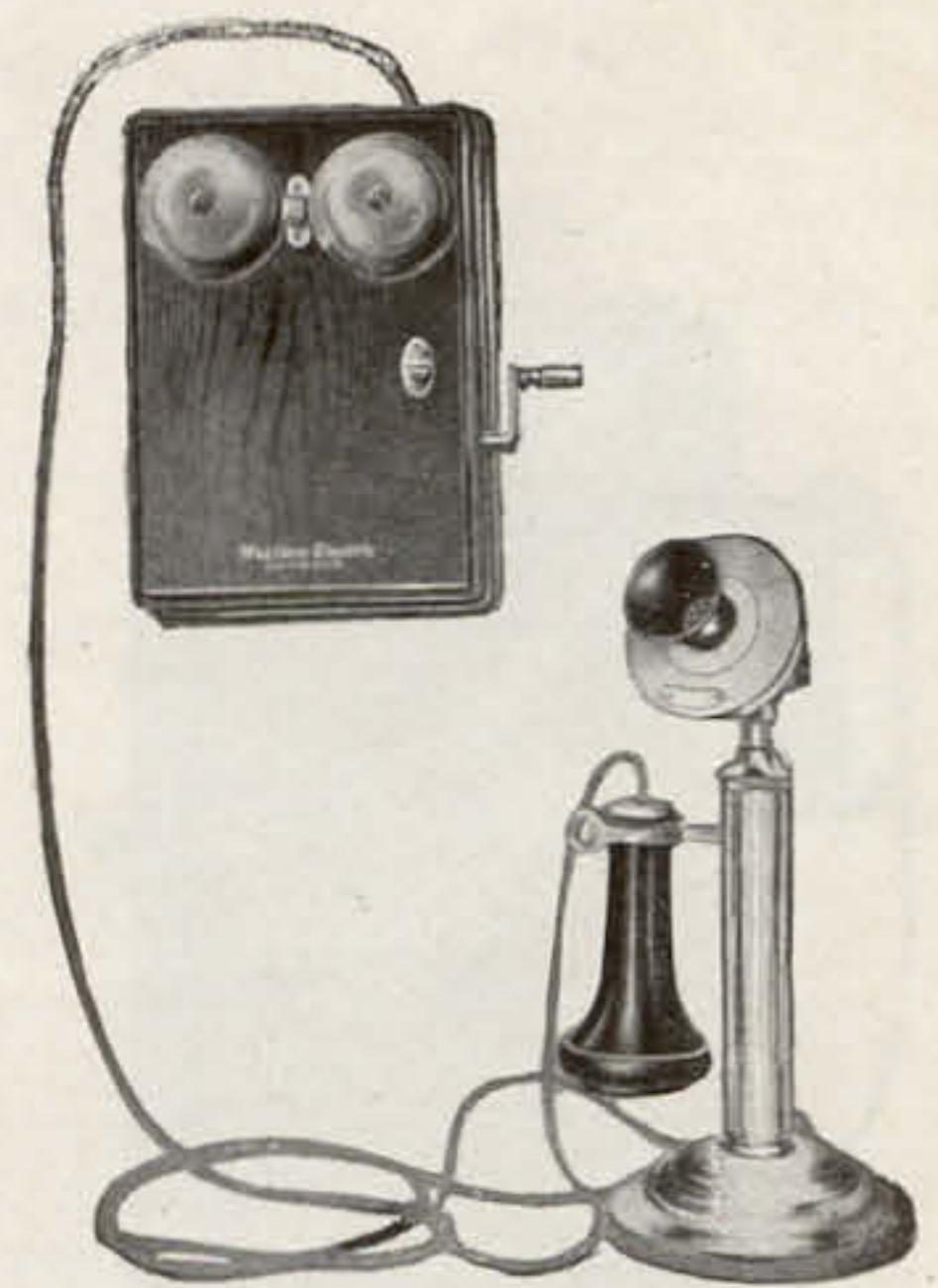
No. 1317-Y-AA-AB-AC

List Price
each

Bridging Desk Telephones

Harmonic Selective Ringing

Code No.	Description	List Price each
	No. 6031-A. For Harmonic Service	
6031-A*	Operates on 33 $\frac{1}{3}$ cycle ringing current. This telephone does the same work as the No. 1305-W and No. 1317-Y. Includes 1 No. 354-A desk set box containing 1 No. 41-SG 460-ohm ringer, 1 No. 22-T 3-bar A. C. generator, 1 No. 21-F condenser, 1 No. 13 induction coil, and 1 No. 1020-PC desk stand, comprising 1 No. 20-PC desk stand, 1 No. 291-W transmitter, 1 No. 143-W receiver, 1 No. 450 cord.....	\$15.65
	Same, equipped with No. 122-W or No. 144-W receiver.....	16.00
	No. 6031-B. For Harmonic Service	
6031-B*	Operates on 50 cycle ringing current. This telephone does the same work as the No. 1305-Y and No. 1317-AA. Includes 1 No. 354-E desk set box, containing 1 No. 41-TG 460-ohm ringer, 1 No. 22-T 3-bar A. C. generator, 1 No. 21-F condenser, 1 No. 13 induction coil, and 1 No. 1020-PC desk stand, comprising 1 No. 20-PC desk stand, 1 No. 291-W transmitter, 1 No. 143-W receiver, 1 No. 450 cord.....	\$15.65
	Same, equipped with No. 122-W or No. 144-W receiver.....	16.00



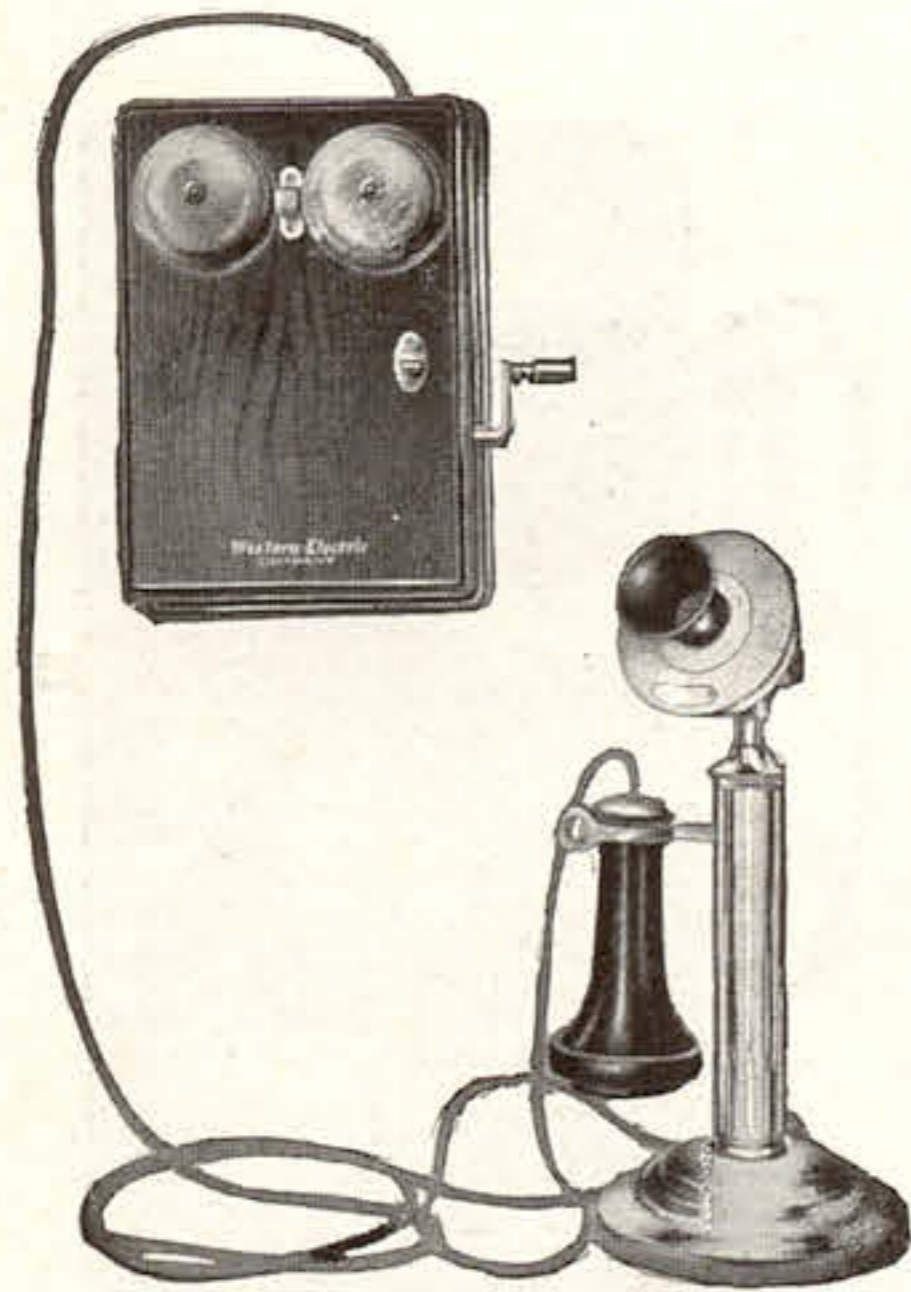
No. 6031 A or B Desk Telephone

* Nickel-plated desk stands are furnished unless otherwise specified. If black finish desk stands are wanted, they will be furnished at the same price, provided the order reads "with black finish desk stands."

MAGNETO TELEPHONES

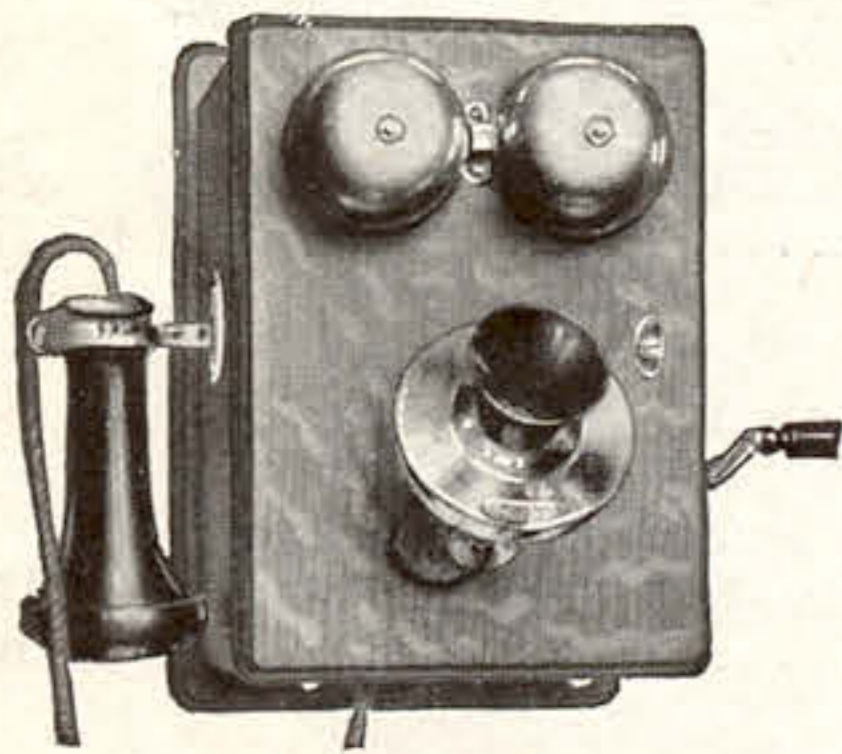
Bridging Desk Telephones

Harmonic Selective Ringing (Continued)



No. 6031-C-D or
6003-C

Code No.	Description	List Price each
6031-C*	No. 6031-C. For Harmonic Service Using desk stand. Operates on 66 $\frac{2}{3}$ cycle ringing current. This telephone does the same work as the No. 1305-AA and No. 1317-AB. Includes 1 No. 354-F desk set box containing 1 No. 41-UG 460-ohm ringer, 1 No. 22-T 3-bar A. C. generator, 1 No. 21-F condenser, 1 No. 13 induction coil, and 1 No. 1020-PC desk stand, comprising 1 No. 20-PC desk stand, 1 No. 291-W transmitter, 1 No. 143-W receiver, 1 No. 450 cord.....	\$15.65
	Same, equipped with No. 122-W or No. 144-W receiver.....	16.00
6031-D*	No. 6031-D. For Harmonic Service Using desk stand. Operates on 16 $\frac{2}{3}$ cycle ringing current. This telephone does the same work as the No. 1305-AB and No. 1317-AC. Includes 1 No. 354-G desk set box containing 1 No. 41-RG 1800-ohm ringer, 1 No. 22-T 3-bar A. C. generator, 1 No. 21-F condenser, 1 No. 13 induction coil, and 1 No. 1020-PC desk stand, comprising 1 No. 20-PC desk stand, 1 No. 291-W transmitter, 1 No. 143-W receiver, 1 No. 450 cord.....	\$16.00
	Same, equipped with No. 122-W or No. 144-W receiver.....	16.35



No. 1305-U

Bridging Wall Telephones

Two- and Four-Party Selective Ringing Using Pulsating Current

1305-U	No. 1305-U. For Four-party Service This telephone does the same work as the No. 1317-AJ and No. 6003-C. Includes 1 No. 46-BG 2500-ohm biased ringer, 1 No. 22-E 2-bar A. C. generator, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 3-A transmitter bracket, 1 No. 229-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 1 No. 179 5 $\frac{1}{2}$ " cord.....	\$12.50
	Same, equipped with No. 122-W or No. 144-W receiver.....	12.85
1317-AJ	No. 1317-AJ. For Four-party Service This telephone does the same work as the No. 1305-U and No. 6003-C. Includes 1 No. 46-BG 2500-ohm biased ringer, 1 No. 22-E 2-bar A. C. generator, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 250-W transmitter, 1 No. 143-W receiver, 1 receiver cord, 2 battery connecting cords..	\$12.55
	Same, equipped with No. 122-W or No. 144-W receiver.....	12.90



No. 1317-AJ

Bridging Desk Telephones

Two- and Four-Party Selective Ringing Using Pulsating Current

6003-C	For four-party selective service, using desk stand. This telephone does the same work as the No. 1305-U and No. 1317-AJ. Includes 1 No. 315-J desk set box containing 1 No. 46-BG 2500-ohm biased ringer, 1 No. 22-E 2-bar A. C. generator, 1 No. 13 induction coil, and 1 No. 1020-BC desk stand, comprising 1 No. 20-BC desk stand, 1 No. 229-W transmitter, 1 No. 143-W receiver, 1 No. 392 cord.....	\$14.00
	Same, equipped with No. 122-W or No. 144-W receiver.....	14.35

NOTE.—A nickel-plated desk stand is regularly furnished with this telephone set. If a black finish desk stand is wanted, it will be furnished at the same price provided the order reads "with black finish desk stand."

* Nickel-plated desk stands are furnished unless otherwise specified. If black finish desk stands are wanted, they will be furnished at the same price, provided the order reads "with black finish desk stands."

MAGNETO TELEPHONES Bridging Wall Telephones

CENTER CHECKING

List Price
each

Code No.	Description	
No. 1317-K. For Heavy Load Service		
1317-AK	Arranged to be equipped with a condenser wired in the receiver circuit, and will be so furnished when specified in the order. Includes 1 No. 47-BG 2500-ohm biased ringer, 1 No. 48-B 5-bar pulsating generator, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 250-W transmitter, 1 No. 143-W receiver, 1 receiver cord.....	\$16.40
	Same, equipped with No. 122-W or No. 144-W receiver.....	16.75
No. 1317-AU. For Light Load Service		
1317-AU	Arranged to be equipped with a condenser wired in the receiver circuit, and will be so furnished when specified in the order. Includes 1 No. 47-BG 2500-ohm biased ringer, 1 No. 22-D 3-bar pulsating generator, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 250-W transmitter, 1 No. 143-W receiver, 1 receiver cord.....	\$12.90
	Same, equipped with No. 122-W or No. 144-W receiver.....	13.25

NOTE.—Information and prices on desk telephones for this class of service furnished upon request.

SELECTIVE CENTRAL OFFICE SIGNALING

No. 1317-AT. For Moderate Load Service

1317-AT	Used in connection with a double wound drop at the central office. This telephone is equipped with a condenser wired in the receiver circuit. Includes 1 No. 38-FG 1600-ohm ringer, 1 No. 48-A 5-bar A. C. generator, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 21-W condenser, 1 No. 1002-A push button, 1 No. 250-W transmitter, 1 No. 143-W receiver, 1 receiver cord.....	\$16.55
	Same, equipped with a No. 122-W or No. 144-W receiver.....	16.90

No. 1317-AY. For Moderate Load Service

1317-AY	Used in connection with a single wound drop at the central office. It is arranged to be equipped with a condenser wired in the receiver circuit, and will be so furnished if specified in the order. Includes 1 No. 38-FG 1600-ohm ringer, 1 No. 48-A 5-bar A. C. generator, 1 No. 13 induction coil, 1 No. 143-G switch hook, 1 No. 250-W transmitter, 1 No. 143-W receiver, 1 receiver cord.....	\$15.70
	Same, equipped with No. 122-W or No. 144-W receiver.....	16.05

NOTE.—The central office is signaled by removing the receiver from the hook and then turning the generator crank.

No. 1317-BA. For Moderate Load Service

1317-BA	Used in connection with a single wound drop at the central office. It is arranged to be equipped with a condenser wired in the receiver circuit, and will be so furnished if specified in the order. Includes 1 No. 38-FG 1600-ohm ringer, 1 No. 48-A 5-bar A. C. generator, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 1006-A push button, 1 No. 250-W transmitter, 1 No. 143-W receiver, 1 receiver cord.....	\$15.85
	Same, equipped with No. 122-W or No. 144-W receiver.....	16.20

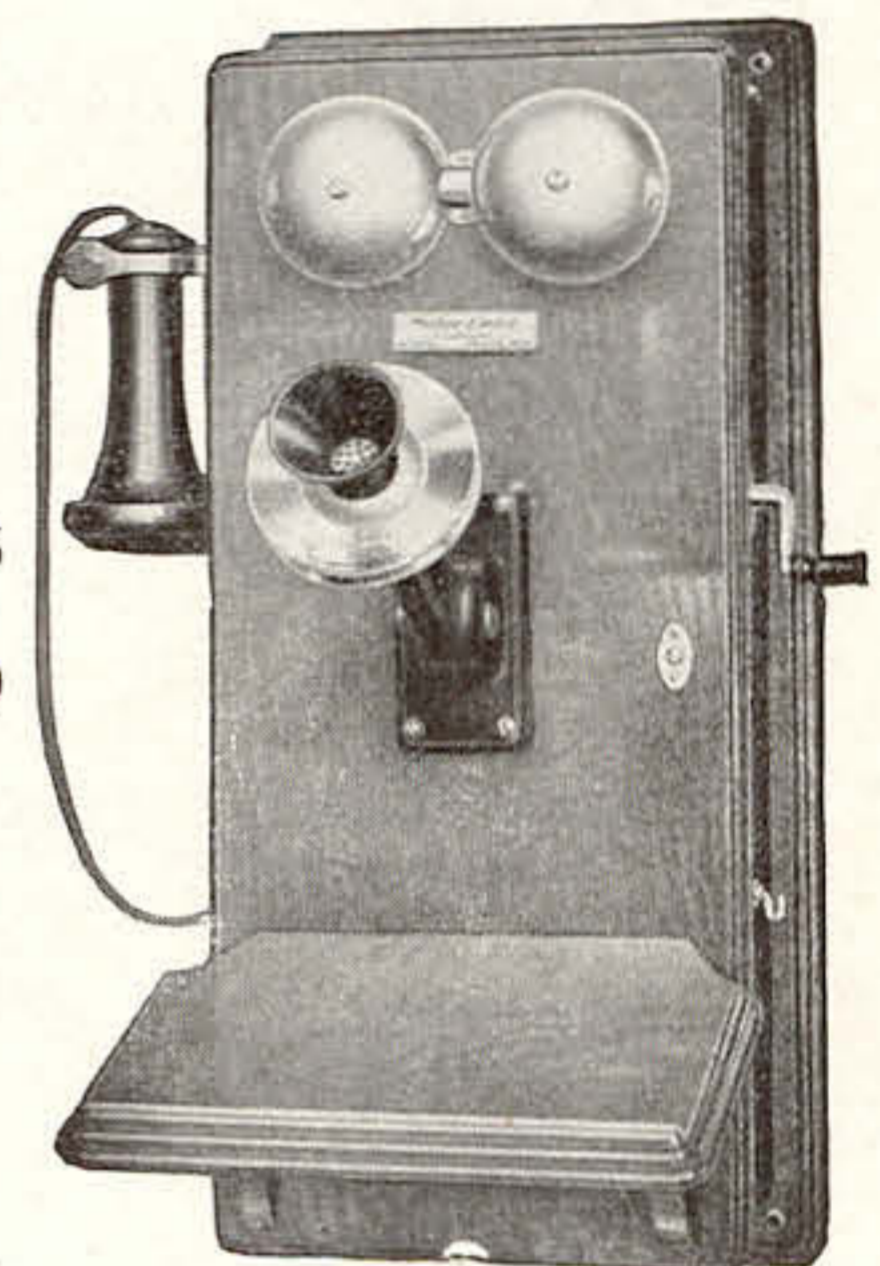
NOTE.—The central office is signaled by pushing the button and then turning the generator crank.

No. 1317-BB. For Heavy Load Service

1317-BB	Used in connection with a single wound drop at the central office. It is arranged to be equipped with a condenser wired in the receiver circuit, and will be so furnished if specified in the order. Includes 1 No. 38-BG 2500-ohm ringer, 1 No. 48-A 5-bar A. C. generator, 1 No. 13 induction coil, 1 No. 143-A switch hook, 1 No. 1001-A push button, 1 No. 250-W transmitter, 1 No. 143-W receiver, 1 receiver cord.....	\$15.85
	Same, equipped with No. 122-W or No. 144-W receiver.....	16.20

NOTE.—The central office is signaled by pushing the button and then turning the generator crank.

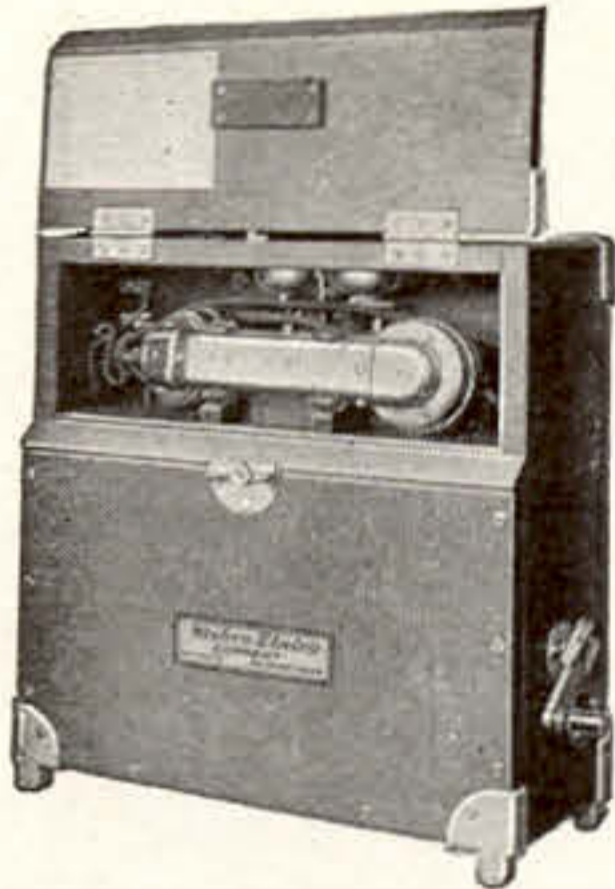
NOTE.—Desk telephones are not popular for this class of service, as a push button key must be operated at the same time as turning the generator handle when calling "Central." However, if desired, prices and information furnished upon request.



No. 1317 Type Telephone

MAGNETO TELEPHONES

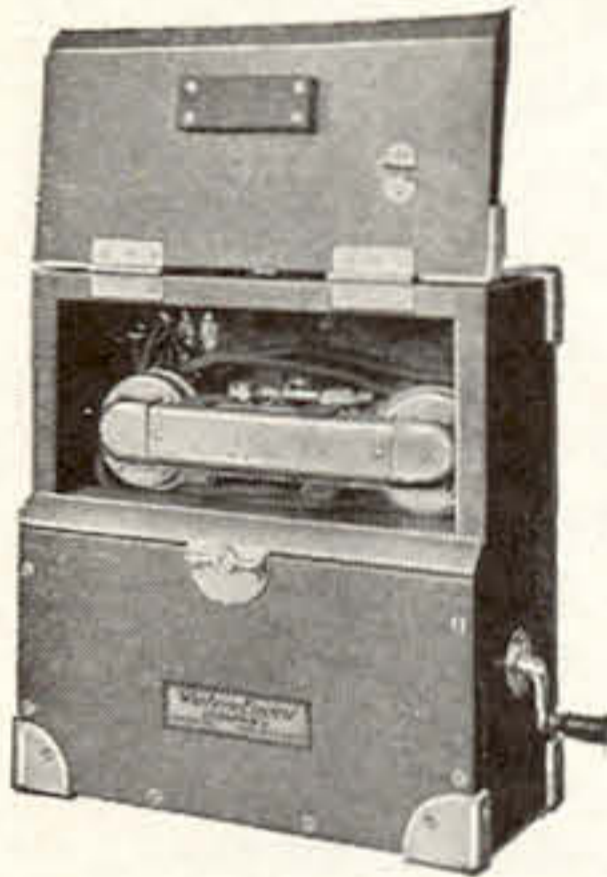
Portable Telephones



No. 1330 Type Telephone. Open



No. 1330 Type Telephone. Closed



No. 1331 Type Telephone. Open



No. 1331 Type Telephone. Closed

No. 1330 TYPE

Code No.	Description	List Price each
	No. 1330-A	
1330-A	Wooden box local battery magneto telephones, for use with line poles. Has inside binding posts. Used on long, heavily loaded telephone lines. Includes 1 5-bar A. C. generator, 1 No. 32-BG 2500-ohm ringer, 1 No. 29 induction coil, 1 No. 1001-C hand set equipped with 1 No. 131-W receiver, 1 No. 285-W transmitter, and 1 No. 366 6' cord.....	\$33.00

NOTE.—Arranged for, but not equipped with, 2 Blue Bell batteries and 1 No. 21 type condenser unless specified in order.

No. 1330-E

1330-E	Wooden box, local battery magneto telephone, for use with line poles. Has outside binding posts. Used on long, heavily loaded magneto telephone lines. Includes 1 5-bar A. C. generator, 1 No. 32-BG 2500-ohm ringer, 1 No. 21-F condenser, 1 No. 29 induction coil, 1 No. 1001-C hand set equipped with 1 No. 131-W receiver, 1 No. 285-W transmitter and 1 No. 366 6' cord.....	\$33.90
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NOTE.—Two Blue Bell dry cells furnished when ordered.

No. 1330-F

1330-F	Wooden box local battery magneto telephone, similar to No. 1330-E telephone excepting that it is equipped with 1 No. 138 plug and 1 No. 396 6' cord for making line connections.....	\$39.45
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NOTE.—Two Blue Bell dry cells furnished when ordered.

No. 1331 TYPE

No. 1331-A

*1331-A	Wooden box local battery magneto telephone for use with line poles. Has inside binding posts. Used on moderately loaded telephone lines. Includes 1 2500-ohm buzzer, 1 No. 22-A 3-bar A. C. generator, 1 No. 29 induction coil, 1 No. 1001-C hand set equipped with 1 No. 131-W receiver, 1 No. 285-W transmitter, and 1 No. 266 6' cord.....	\$30.00
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No. 1331-E

*1331-E	Wooden box local battery magneto telephone for use with line poles. Has outside binding posts. Used on moderately loaded magneto telephone lines. Includes 1 No. 3-B 2500-ohm buzzer, 1 No. 29 induction coil, 1 No. 22-A 3-bar A. C. generator, 1 No. 1001-C hand set with No. 366 cord, 2 special No. 2-C binding posts.....	\$30.90
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No. 1331-F

*1331-F	Wooden box local battery magneto telephone, similar to No. 1331-E telephone, except that it is equipped with 1 No. 138 plug and 1 No. 396 6' cord for making line connections.....	\$36.45
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* NOTE.—Arranged for, but not equipped with, 2 cells of oval No. 4 Columbia batteries and 1 No. 21-F condenser unless specified in order.