

BELL SYSTEM PRACTICES
Station Installation and Maintenance

SECTION C31.401
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AT&T Co Standard

INDUCTION COILS
DESCRIPTION AND USE

1. GENERAL

1.01 This section gives general information pertaining to coils used in station apparatus. It is reissued to include changes in general information and delete from the following lists those induction coils not generally used.

STANDARD INDUCTION COILS

Code No.	Windings	Terminals	Description and Use
62	Primary Secondary Tertiary	PC-PD L-T T-LT	Anti-sidetone coil for use in Nos. 653BB and 634BB local battery talking sets.
101A	Primary Secondary Tertiary	L1-R GN-C GN-R	Closed core anti-sidetone coil for use in common battery talking sets.
101B	Primary Secondary Tertiary (Midpoint)	RR-R GN-C GN-R M	Closed core anti-sidetone coil for use in common battery talking sets where a midpoint terminal on the the primary winding is needed for connecting a ringer for two-party dial message rate tip party service or a coin relay for coin collector service. Used in 304 and 354-type telephone sets, 181, 182, 183, 191, 193 and 195-type coin collectors, also: 634 and 684-type subscriber sets.

STANDARD INDUCTION COILS—Cont'd.

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Code No.	Windings	Terminals	Description and Use
104A	Primary Secondary Tertiary Resistance	BL-SL L1-RBK RBK-C C-A	Closed core anti-sidetone coil with a choice of network resistance for side-tone balancing winding. It is intended for use with local battery talking — common battery signaling and magneto anti-sidetone service.

OTHER INDUCTION COILS

(Mfr. Disc.)

Code No.	Windings	Terminals	Description and Use
113D	Primary Secondary Tertiary Resistance	P-P S-S1 S1-S2 S2-S3	Anti-sidetone coil for use in local battery talking, common battery signaling and magneto sets.
120	Primary Secondary Tertiary	1-2 4-3 4-2	Anti-sidetone coil for common battery talking sets made by adding a third winding to No. 20 coil.
146B	Primary Secondary Tertiary	L1-R GN-C GN-R	Anti-sidetone coil for common battery talking sets made by adding a third winding to No. 46B coil.
146C	Primary Secondary Tertiary	L1-R GN-C GN-R	Anti-sidetone coil for use in common battery talking sets. Made by adding a third winding to No. 46C coil.
155B	Primary Secondary Tertiary	L1-R GN-C GN-R	Made by adding a third winding to No. 55B coil. Has moisture resistant windings; otherwise same as 146B coil.

1.02 The 62 and 113D induction coils have solder terminals, therefore, it is recommended that the subscriber set be replaced rather than attempt to replace defective coils in the field.

1.03 Although Nos. 120 and 146B coils may be used interchangeably defective 120, 146B and 155B induction coils may be replaced with 101A induction coils. The 101A coil should be attached to mounting plate P-236668 with one P-129732 screw. The mounting plate should then be fastened in the subscriber set with two screws placed in the screw holes previously used in mounting the 120, 146 or 155-type coil. The 101A coil should, however, be placed so that the screw terminals on the coil are above the condenser. This is to avoid the possibility of cord tips attached to these screws shorting on the condenser case. In some sets it is, therefore, necessary to block out under the induction coil mounting plate with one, two or three P-290331 wooden blocks. The piece part numbers of the screws required to mount the induction coil mounting plate in the set are as follows:

No. of P-290331 Blocks Under Plate P-236668	No. of Screws	Piece Part Numbers of Screws
None	2	P-129732
1	2	P-142036
2	2	P-166781
3	2	P-210728

Caution: In wiring and cording sets in which three P-290331 wooden blocks have been used under the induction coil mounting plate check to make certain that the cover of the set does not touch the cord tips on cords and wiring attached to the 101A induction coil.

1.04 If the 146C induction coil in a 684-type subscriber set becomes defective the set should be returned for repair if a similar coil is not available for replacement purposes.

1.05 An induction coil is included in the network of the 500-type telephone set as specified in sections in Division C60 entitled "Telephone Sets—500 and 501 Types".