

TELEPHONE SETS — 306G (TUBE SET)

COMMON BATTERY — CONNECTIONS

1.00 INTRODUCTION

1.01 This section covers the combination of apparatus, circuit diagram, and connections for the 306G telephone sets.

1.02 These sets are used for the following services:

- 4-party full selective.
- 8-party semiselective.



FIG. 1—306 TYPE

TABLE A
COMBINATION OF APPARATUS

Tel. Set Code	Use	Components						
		Handset	Dial	Induction Coil	Ringer	Capacitor	Electron Tube	Filter
306G	Dial	F1	5H or 6A	101A	B3A	195C	405A or 426A	61P*

*The 306G comes equipped for dial only. For manual use, it must be converted in the field. It *must* be equipped with a filter for both manual and dial service.

This set may be furnished with either the 405A or 426A electron tube.

TABLE B—LINE AND RINGER CONNECTIONS

Wire or Lead		Negative (—) Parties		Positive (+) Parties	
		Ring Positions 1 and 5	Tip Positions 2 and 6	Ring Positions 3 and 7	Tip Positions 4 and 8
Mounting Cord in Set	R	L2Y	L1	L2Y	L1
	GN	L1	L2Y	L1	L2Y
	Y	GND	GND	GND	GND
Ringer Lead	R	GND	GND	L2Y	L2Y
	BK	K	K	K	K
426A Tube Lead	R	GND	GND	L2Y	L2Y
	BK	K	K	K	K
	Y	L2Y	L2Y	GND	GND
Mounting Cord at Connecting Block	R	R	R	R	R
	GN	G	G	G	G
	Y	Y	Y	Y	Y
Ringer and Tube Leads for 405A Tube					
Ringer Lead	R	S	S	S	S
	BK	K	K	K	K
S-Terminal Lead	SL-R	GND	GND	L2Y	L2Y
	R	*	*	*	*
	BK	K	K	K	K
405A Tube Lead	Y	L2Y	L2Y	GND	GND

*Red tube lead is connected to undesignated end of resistor.

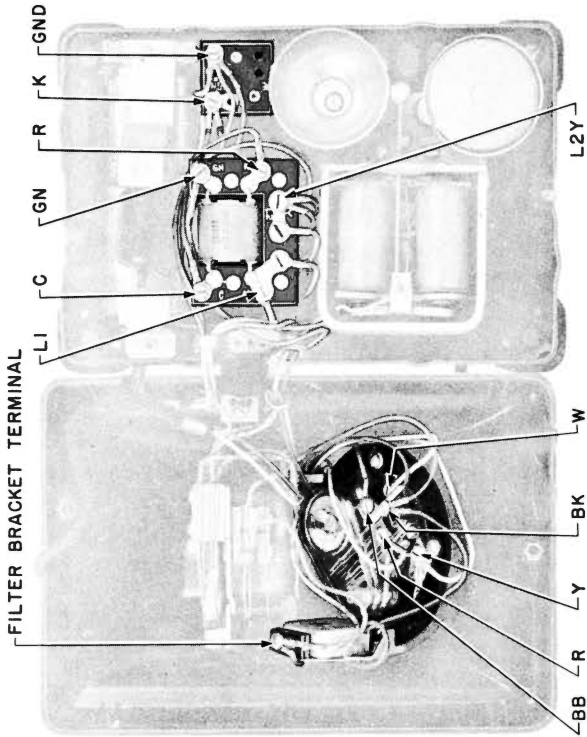


FIG. 2—306G

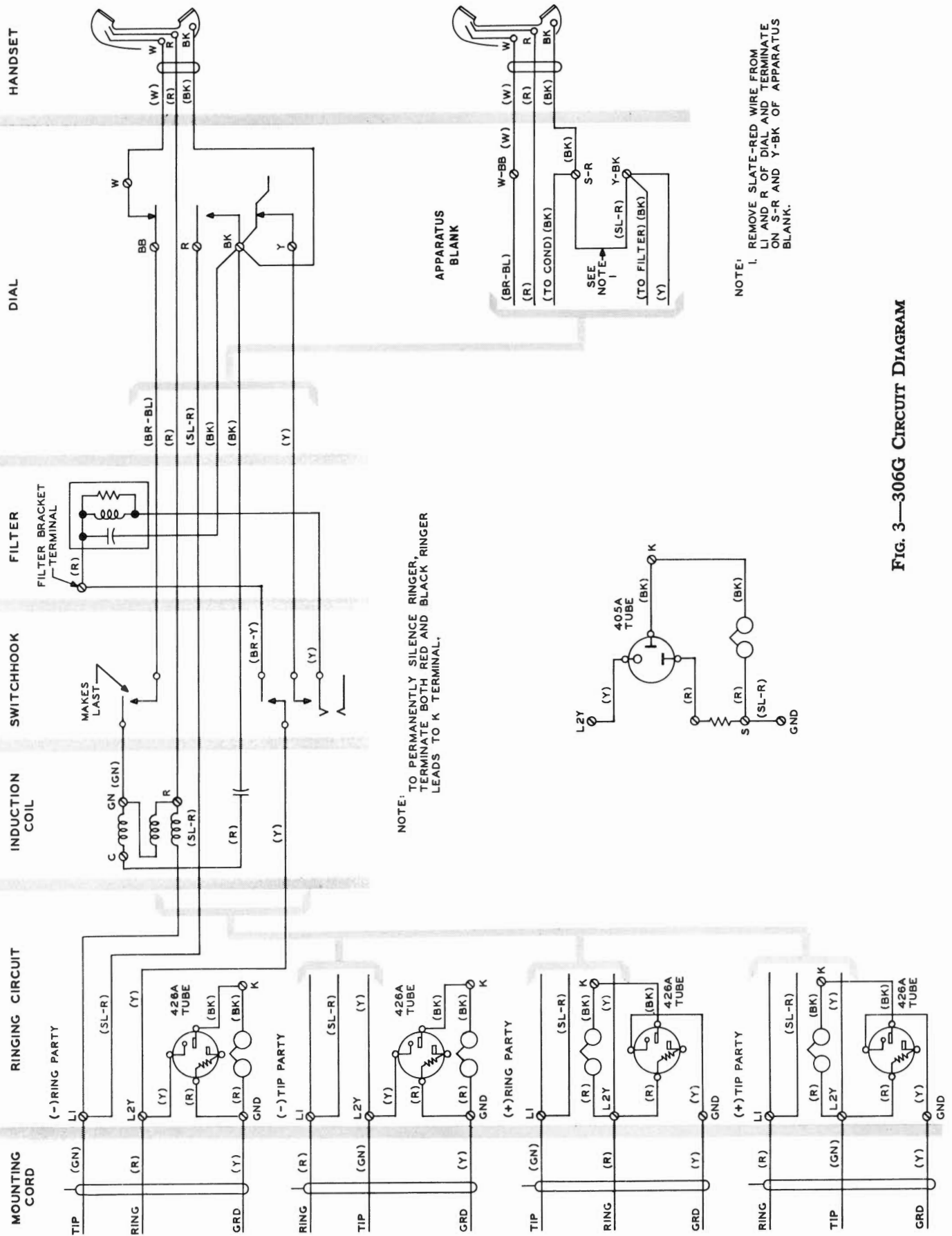


FIG. 3—306G Circuit Diagram

3.00 FILTER CONNECTIONS

The 306G telephone set must be equipped with a filter. The connections are shown in Fig. 3.

4.00 RINGERS

4.01 Set the ringer biasing spring on a B3A ringer in the notch that gives the most satisfactory ring.

4.02 The ringing bridge is of the high-impedance type. For information on the number and type of ringing bridges permitted on each line, see the C Section covering ringer limitations.

5.00 CONNECTIONS WHEN INDUCTANCE IS ENCOUNTERED**TABLE C—INDUCTION**

Wire or Lead		Average Induction				Severe Induction			
		Negative (—) Parties		Positive (+) Parties		Negative (—) Parties		Positive (+) Parties	
		Ring	Tip	Ring	Tip	Ring	Tip	Ring	Tip
		Positions 1 and 5	Positions 2 and 6	Positions 3 and 7	Positions 4 and 8	Positions 1 and 5	Positions 2 and 6	Positions 3 and 7	Positions 4 and 8
Ringer Lead	R	GND	GND	K	K	K	K	K	K
	BK	K	K	GND	GND	L2Y	L2Y	GND	GND
426A Tube Lead	R	L1	L1	—	—	—	—	—	—
	BK	K	K	—	—	—	—	—	—
	Y	L2Y	L2Y	—	—	—	—	—	—
425A Tube Lead	R	—	—	L2Y	L2Y	L1	L1	L2Y	L2Y
	GN	—	—	L1	L1	L2Y	L2Y	L1	L1
	BK	—	—	L2Y	L2Y	GND	GND	L2Y	L2Y
	Y	—	—	K	K	K	K	K	K

Note: For additional information concerning induction, reference should be made to the C Section covering inductive noise.