

HANDSET-J1A

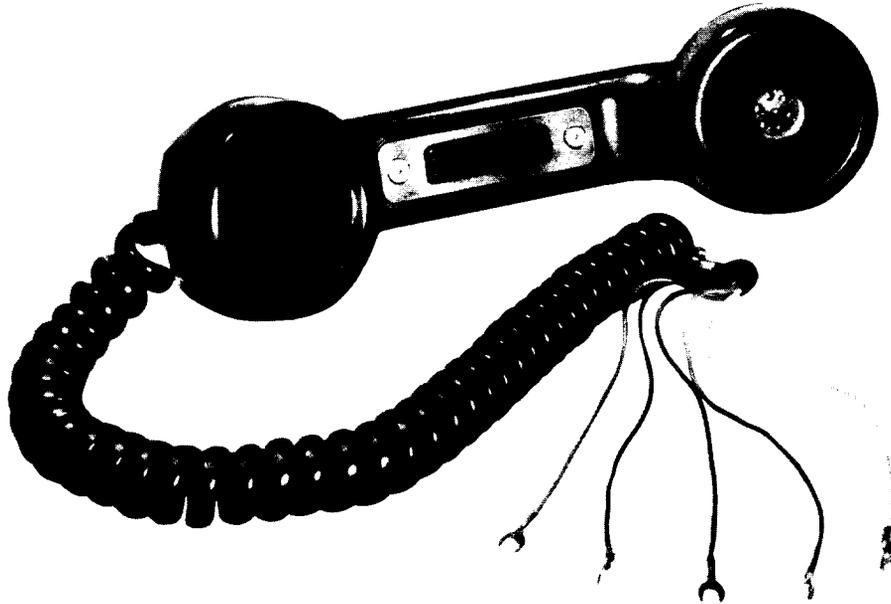


Fig. 1—J1A Handset

1. GENERAL

- (a) This section contains identification, connection, and maintenance information on the J1A handset.
- (b) This section is reissued to:
 - Add 104A varistor
 - Rerate J1A-59, -61, and -64 to MD
 - Provide information for use with 2/4 wire telephone sets and CALL DIRECTOR® sets
 - Add Table C
 - Revise Table A

2. IDENTIFICATION

- (a) **Purpose:** To provide control of 1-type telephone reporting set from a remote location.
 - (b) **Ordering Guide:**
 - Set, Hand, J1A-*
 - (1) **Replaceable Components**
 - Cord, H5P-*
 - Transmitter Cap*
 - Receiver Cap*
 - Unit Transmitter, T-1
- * Add color suffix per Table A.

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

(2) **812162212 (P-21F221) Label** (packaged with handset).

(c) **Design Features:**

- (1) Normal G-type handset circuit with T1 transmitter and U1 receiver.
- (2) A receiver board assembly consisting of a transistor oscillator and polarity guard.
- (3) Switch controlled oscillator for generating a 1475 cps signal.

(d) **Application:** In place of G-type handsets on 500-, 600-, and 700-type telephone sets (including alternate 2/4 wire telephone sets and CALL DIRECTORS) used as control stations for 1-type telephone reporting sets and Voice Connecting Arrangement SU4 (KS-20445L2 control units).

(e) **Operating Features:** Depressing pushbutton switch:

- (1) Connects 5600-ohm resistance in series with receiver.

- (2) Opens transmitter circuit.

- (3) Connects oscillator output to line. Same connection supplies DC power.

(f) **Instruction Label, 812162212 (P-21F221):** Packaged with handset to inform station attendant of proper usage when controlling the reporting set.

Position label between switchhook plungers or any appropriate location readily visible on associated telephone set.

3. **CONNECTIONS**

(a) Remove existing handset cord from station set, and connect leads of J1A handset as shown in Tables B or C as required.

Note: Removed handsets should be placed in cartons or suitable containers to protect the surfaces.

(b) Perform necessary electrical and transmission tests with test board, and verify oscillator

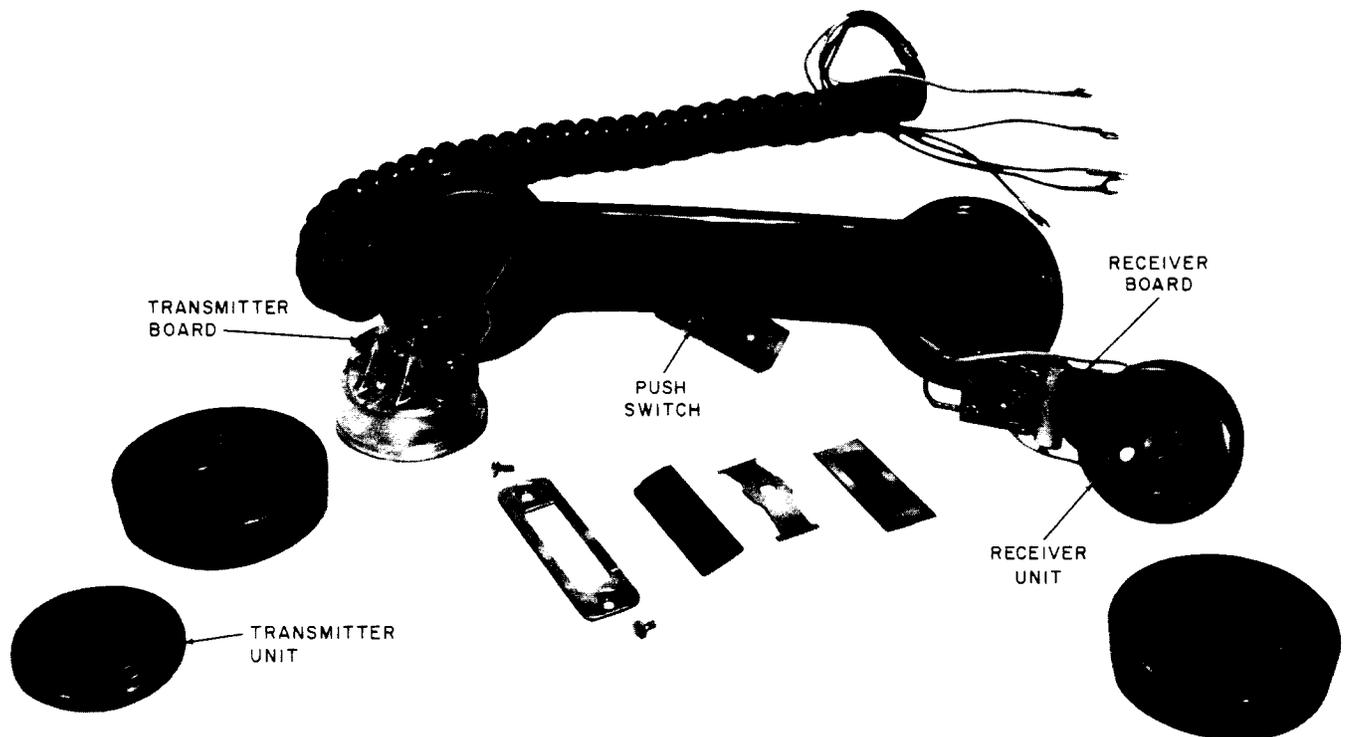


Fig. 2—J1A Handset, Interior

◆TABLE A◆

COLOR ORDERING GUIDE

| COLOR | COLOR SUFFIX | TRANSMITTER CAP | RECEIVER CAP |
|-----------|--------------|----------------------|----------------------|
| Black | -03 | 818011033 (P-80A103) | 818012031 (P-80A203) |
| Green | -51 | 818011512 (P-80A151) | 818012510 (P-80A251) |
| Red | -53 | 818011538 (P-80A153) | 818012536 (P-80A253) |
| Yellow | -56 | 818011561 (P-80A156) | 818012569 (P-80A256) |
| White | -58 | 818011587 (P-80A158) | 818012585 (P-80A258) |
| Lt. Beige | -60 | 818011603 (P-80A160) | 818012601 (P-80A260) |
| Aqua Blue | -62 | 818011629 (P-80A162) | 818012627 (P-80A262) |

TABLE B

J1A HANDSET CONNECTIONS
TYPICAL TELEPHONE SET

| HANDSET LEADS (H5P CORD) | NETWORK TERMINALS (425E, 4010-TYPE) |
|-----------------------------|--|
| Red | C |
| White | R |
| Green | GN |
| Blue | R |
| Black | B |

◆TABLE C◆

J1A HANDSET CONNECTIONS
2/4 WIRE TELEPHONE SETS

| HANDSET LEADS (H5P CORD) | CONNECT TO TERMINAL |
|-----------------------------|---|
| Red | C on Network |
| White | Vacated by first white handset lead |
| Green | Vacated by second white handset lead |
| Blue | Vacated by red handset lead |
| Black | Vacated by black handset lead |

SECTION 501-210-104

output by depressing switch and listen for 1475 cps tone.

4. MAINTENANCE

- (a) For assistance in overall circuit trouble shooting, refer to schematic (Fig. 3).
- (b) **Replaceable Apparatus:** Refer to ordering guide 2(b) for ordering nomenclature and color.
 - Receiver Cap
 - Transmitter Cap
 - T1 Transmitter Unit
 - H5P Cord
- (c) Repairs or adjustments on switch contact springs are not recommended; if switch is defective, replace handset.
- (d) Replace cracked transmitter or receiver caps. Turn off by hand or use 514-type tool.
- (e) Clean surfaces of handset with a clean cloth moistened with water. Exercise care when cleaning colored handsets.

(f) To remove cord from handset:

- (1) Remove caps, and transmitter and receiver boards.
- (2) Disconnect cord tips and pull cord outward through hole in handle.

Note: When disconnecting cord tips, do not remove leads terminating on transmitter and receiver boards which are connected to switch assembly (Fig. 3).

(g) To replace cord on handset:

- (1) Tie pull wire or string to receiver conductors of defective cord. Pull cord out of handle.

Note: It may be necessary to temporarily remove pushbutton switch when replacing cord.

- (2) Tie pull wire or string to white and red conductors of new cord and pull them into place in receiver well.
- (3) Advance grommet to proper position by turning it with a threading motion.
- (4) Insert tip of white conductor between receiver board and spacer. Secure by tightening screw on bottom of board.
- (5) Connect remaining cord tips; and reassemble transmitter and receiver units and caps.



Do not use cleaning fluids or antirust compounds on handset components.

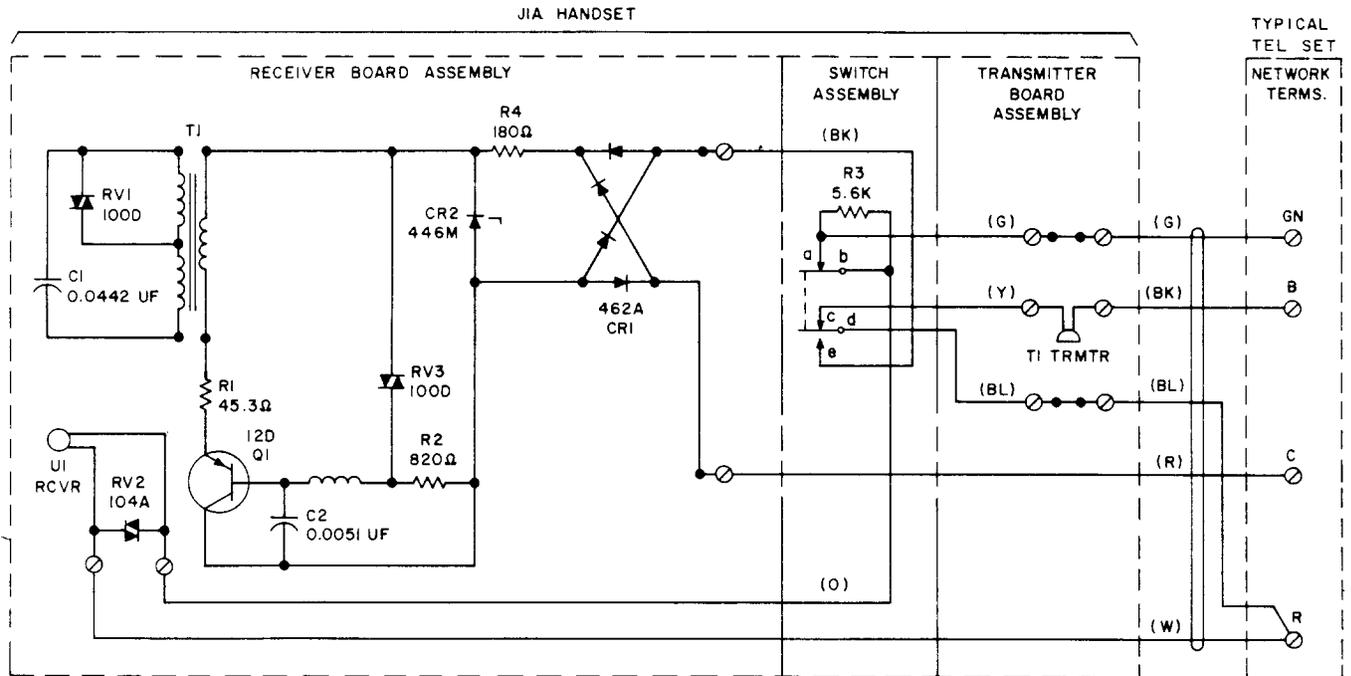


Fig. 3—J1A Handset, Schematic Diagram