

## HANDSET CORDS—MESSAGE WAITING

### 1. GENERAL

**1.01** This section contains identification, installation, connections, and maintenance information on the H5AD- and H5AE-type handset cord assemblies which have a message waiting lamp as part of the cord plug (Fig. 1).

**1.02** This section is reissued to:

- Revise Fig. 2 and 3

### 2. IDENTIFICATION

#### Purpose

**2.01** To provide a message waiting lamp by changing handset cord and performing minor field wiring modifications.

#### Design Features

**2.02** H5AD-type cord assembly is plug ended at each end with message waiting lamp in the handset plug.

**2.03** H5AE-type cord assembly is equipped with a message waiting lamp at the handset plug end and five spade-tipped conductors, a "J" hook, and stayband at the set end.

#### Ordering Guide

Cord Assembly, H5AD-\*

Cord Assembly, H5AE-\*

#### Application

**2.04** H5AD-type cord assembly is intended for use with the 220A and 2220B hand telephone

\*Add appropriate color code.

sets and their associated AC1 and AD1 type telephone bases. Also used with telephone set bases equipped with handset cord jack and a G12A handset.

**2.05** H5AE-type cord assembly is intended for use when a G12A-type handset is used with a telephone set base not equipped with a handset cord jack.

### 3. INSTALLATION

**3.01** When installing the message waiting lamp cord, consideration should be given to locating the telephone set so the user can readily see when the lamp is lighted. Brightly lighted areas may affect lamp visibility.

### 4. CONNECTIONS

**4.01** Connection of these cord assemblies require wiring modifications of the telephone sets in addition to plugging the cord into the proper jacks. See Tables A through F.



*Refer to the appropriate Service Section for other telephone set connection requirements.*

**4.02** Refer to Section 502-303-101 for wiring diagram of the H5AD message waiting lamp cord assembly used with the 220A and 2220B hand telephone sets.

**4.03** Typical message waiting lamp in cord connections for other rotary and TOUCH-TONE® dial telephone sets are shown in Fig. 2 and 3, respectively.

### NOTICE

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Bell System except under written agreement

5. MAINTENANCE

5.01 The cord must be replaced should the lamp or cord become defective.

5.02 To replace a plug ended handset cord, use a KS-21107L1 tool. Insert the tool in the space and hold releaser similar to using a paring knife. Place thumb against message waiting lamp and use releaser to apply pressure on the spring clip.

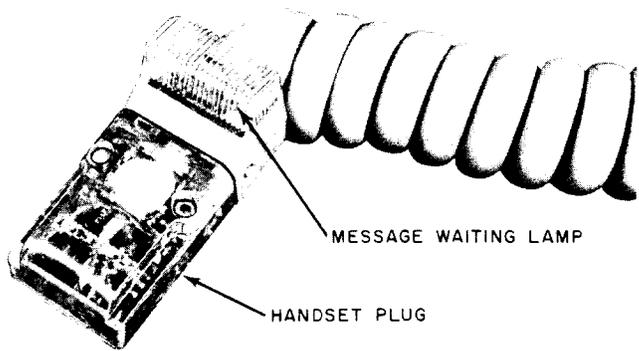


Fig. 1—H5AD- or H5AE-Type Message Waiting Cord, Handset End

TABLE A

MESSAGE WAITING LAMP IN CORD CONNECTIONS FOR 500C/D, 554A/B, AND 702B TELEPHONE SETS

CORD OR INSIDE WIRE	LEAD	NETWORK	
		REMOVE FROM	CONNECT TO
Mtg Cord or Inside Wire†	G or Tip†		L1 (Note)
	R or Ring†		L2
H5AE* Handset Cord Leads	W		R
	BK		R
	R		GN
	G		B
	Y		L2

\* Used with G12A-type handset.

† 554A/B telephone set only.

Note: Strap L1 to F on network if (G) mounting cord lead will not reach F terminal.

TABLE B

MESSAGE WAITING LAMP IN CORD CONNECTIONS FOR 2500D TELEPHONE SET

CORD	LEAD	NETWORK	
		REMOVE FROM	CONNECT TO
Mtg Cord	G	L1	F
	R		L2
H5AE* Handset Cord Leads	W		T
	BK		R
	R		S
	G		B
	Y		L2

\* Used with G12A-type handset.

TABLE C

MESSAGE WAITING LAMP IN CORD CONNECTIONS FOR 2554B TELEPHONE SET

CORD OR INSIDE WIRE	LEAD	NETWORK	
		REMOVE FROM	CONNECT TO
Inside Wire	Tip	1 of Term. Strip	F of Net.
	Ring		2 of Term. Strip
H5AE* Handset Cord Leads	W		11 of Term. Strip
	BK		R of Net.
	R		10 of Term. Strip
	G		B of Net.
	Y		2 of Term. Strip

\* Used with G12A-type handset.

TABLE D

MESSAGE WAITING LAMP IN CORD CONNECTIONS FOR 2702B TELEPHONE SET

CORD	LEAD	CONNECTION	
		REMOVE FROM	CONNECT TO
Mtg Cord	G	L1 of Net.	F of Net.
	R		L2 of Net.
H5AE* Handset Cord Leads	W		6 of Term. Strip
	BK		R of Net.
	R		5 of Term. Strip
	G		B of Net.
	Y		L2 of Net.

\* Used with G12A-type handset.

TABLE F

MESSAGE WAITING LAMP IN CORD CONNECTIONS FOR 220A AND 2220B HAND TELEPHONE SET TO AD1 TELEPHONE BASE

CORD OR SET WIRING	LEAD	AD1 TERM. BOARD	
		REMOVE FROM	CONNECT TO
Set Wiring	G		L1
	R		L2
Handset Cord Jack Leads	W		3
	BK		4
	R		C
	G	F	L1
	Y	B	L2

TABLE E

MESSAGE WAITING LAMP IN CORD CONNECTIONS FOR 220A AND 2220B HAND TELEPHONE SET TO AC1 TELEPHONE BASE

CORD OR INSIDE WIRE	LEAD	AC1 TERM. BOARD	
		REMOVE FROM	CONNECT TO
Inside Wire	G		L1
	R		L2
Handset Cord Jack Leads	W		3
	BK		4
	R		C
	G	F	L1
	Y	B	L2

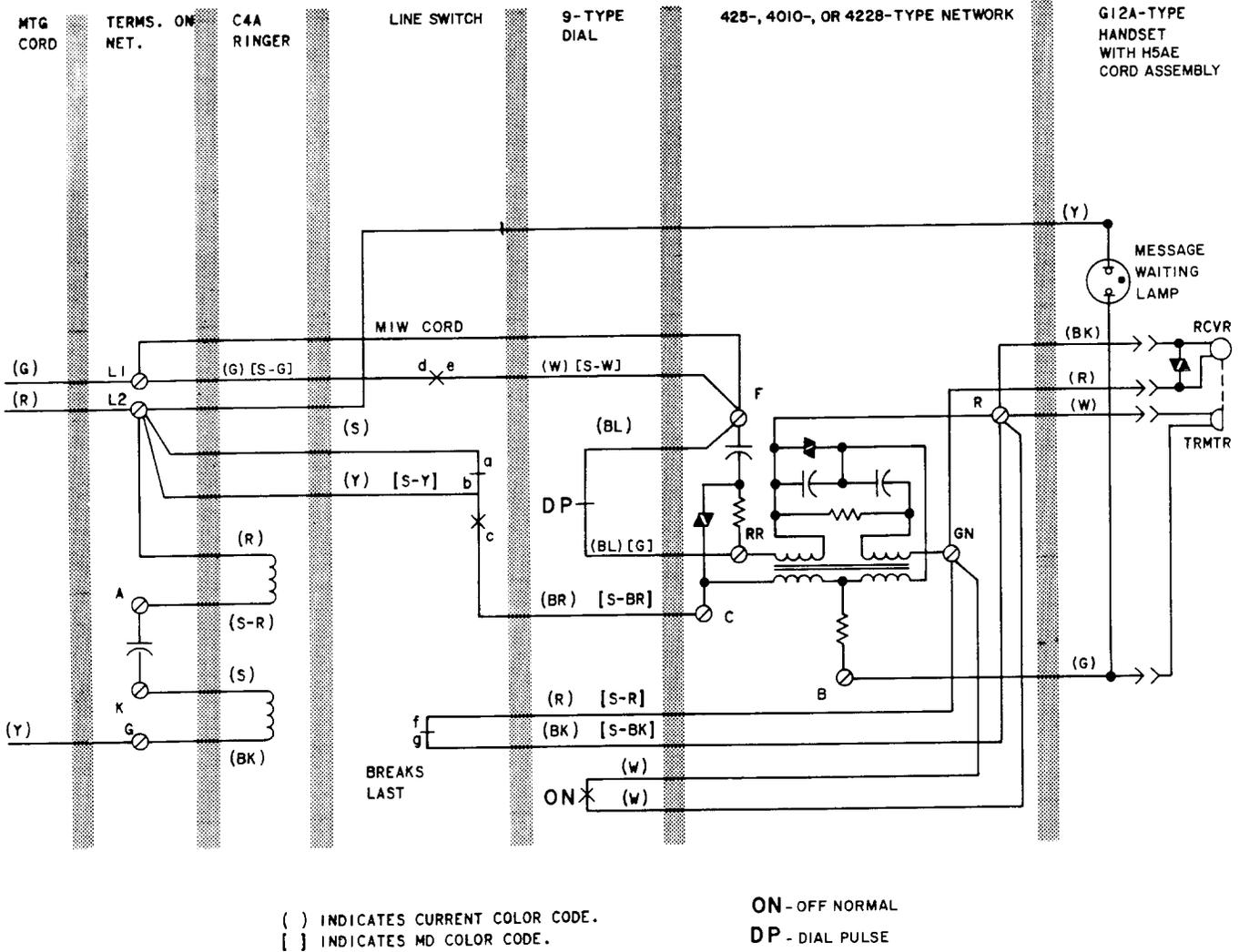


Fig. 2—Typical Connections for Rotary Dial Type Telephone Set E/W Message Waiting Cord

