

HANDSETS DESCRIPTION

1. GENERAL

1.01 This section contains general information describing handsets. It is reissued to include information on the G1D, G2CR, and G2D handsets and to list the codes of handsets equipped with retractile cords. Information is also included on colored handsets.

1.02 Due to extensive changes, marginal arrows have been omitted.

1.03 The addition of the suffix R to the code number of a handset indicates that the handset is equipped with a retractile cord, as shown on Tables B and D.

1.04 Information covering the use of handsets in the proper transmission zone is covered in Section C30.002, Transmission Zoning of Station Apparatus.

2. DESCRIPTION

2.01 The following figures are included in this practice: Figs. 1, 2, and 4 showing the three basic types of handsets, E, F, and G, respectively; Figs. 3 and 5 showing push-to-talk handsets, F3 and G2, respectively; and Figs. 6 and 7 showing bushings for explosion-proof handsets, F6A and F6B. Associated with Figs. 1, 2, 3, 4, and 5 are Tables A, B, C, D, and E, respectively, showing the uses of the various handsets.

2.02 **Lightweight F1-type handsets** may be distinguished from the regular handsets by their lighter weight plastic, hollow handle, and an embossed dot following the code number on the handle. Transmitter and receiver caps for lightweight handsets are not interchangeable with regular caps because the threads are different. Caps for the heavier handsets have a number molded in the center of the underside of the grid; lightweight caps do not have such a number.

2.03 **A lightweight handset should not be used to replace a regular handset.** Its lighter weight may not operate reliably a switchhook designed for a regular handset.

2.04 **Push-to-talk Handsets:** F3- and G2-type handsets are equipped with a push-type switch in the center of the handle. (See Figs. 3 and 5.) This switch closes the transmitter circuit, removes a transmitter shunt, or performs some other function depending on the type of equipment associated with the handset.

2.05 **Explosion-proof Handsets:** F6A and F6B handsets are approved by the Underwriters' Laboratories, Inc. for use with telephone sets for hazardous locations. The handset cord is attached to the telephone set by means of a bushing that is designed to confine any possible burning gases to the interior of the telephone set. The F6A and F6B handsets are not interchangeable, as shown in Figs. 6 and 7. At least five threads of the threaded bushing must engage the threads in the housing. Each F6A or F6B handset is a factory assembled unit including the cord and bushing. If any part, except the transmitter cap or receiver cap, requires replacement, **replace the entire handset assembly.**

Caution: See Section C55.155, Telephone Sets for Explosive Atmospheres, General Requirements, before doing any work involving these handsets.

TABLE A
E-TYPE HANDSETS

Handset	Cord	Used With
E1D	H3AD	300A, B, C, and D outdoor sets. Equipped with a 15-inch water-proof cord.
E1E	H3C	Hand telephone sets. Equipped with fabric cord.



Fig. 1—E-Type Handset

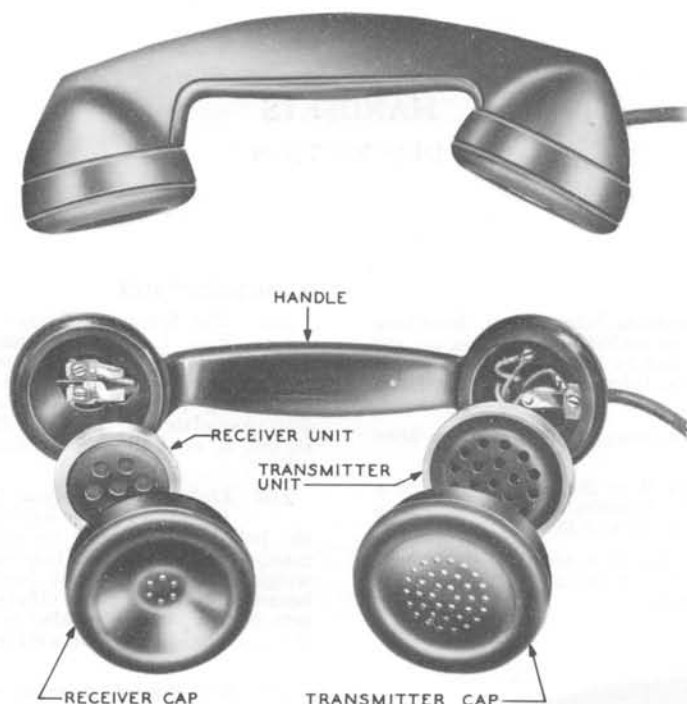


Fig. 2—F-Type Handset
Table B
F-TYPE HANDSETS

Handsets	Color	Cord	Trs Unit	Rec Unit	Handle	Trs Cap	Rec Cap	Remarks †	Used With
F1A-3	Black	H3C-9	F1	HA1	F1-3	P-456235	P-456236	Fabric-covered cords.	Hand telephone sets and 300- and 400-type telephone sets.
F1A-4	Ivory	H3C-4	F1	HA1	F1-4	P-349014	P-349015		
F1A-6	Old Brass	H3C-6	F1	HA1	F1-6	*	*		
F1A-7	Statuary Bronze	H3C-7	F1	HA1	F1-7	*	*		
F1A-8	Oxidized Silver	H3C-8	F1	HA1	F1-8	*	*		
F1A-12	Dark Gold	H3C-12	F1	HA1	F1-12	*	*		
F1A-16	Old Rose	H3C-16	F1	HA1	F1-16	P-349659	P-349663	Waterproof cords.	
F1A-18	Dark Blue	H3C-18	F1	HA1	F1-18	P-349660	P-349664		
F1A-19	Gray Green	H3C-19	F1	HA1	F1-19	P-349661	P-349665	Retractable waterproof cords.	
F1A-20	Pekin Red	H3C-20	F1	HA1	F1-20	P-349662	P-349666		
F1G-3	Black	H3AG-3	F1	HA1	F1-3	P-456235	P-456236		181-, 183-, 191-, 193-, 195-, 196-, and 197-type coin collectors.
F1G-4	Ivory	H3AH-50	F1	HA1	F1-4	P-349014	P-349015		
F1GR-3	Black	H3AF-9	F1	HA1	F1-3	P-456235	P-456236		300E, F, G, and H, 325- and 326-type outdoor telephone sets.
F1GR-4	Ivory	H3AJ-50	F1	HA1	F1-4	P-349014	P-349015		
F1B	Black	H3AE-9	F1	HA1	F1-3	P-456235	P-456236		
F1C	Black	H3AD-9	F1	HA1	F1-3	P-456235	P-456236		
F1E-3	Black	H3N-9	F1	HA1	F1-3	P-456235	P-456236	15-in. fabric-covered cords.	322A and 322C elevator sets.
F1E-6	Old Brass	H3N-6	F1	HA1	F1-6	*	*		
F1H	Black	H3AC-9	F1	HA5	F1-3	P-456235	P-456236	Equipped with a 310A plug.	85A, 86A, 87A, 87B, and 88A test sets.
F2A	Black	H4U-9	F1	HA1	F2-3	P-456235	P-456236	Fabric-covered cord and a 289B plug.	PBX systems.
F2B	Black	H4T-9	F1	HA1	F2-3	P-456235	P-456236	Fabric-covered cord.	307E, F, G, and H telephone sets and SP653BB subsets. Also 309- and 357-type sets when a common local transmitter battery is provided.
F2C	Black	H4T-9	F1	HA3	F2-3	P-456235	P-456236	Fabric-covered cord.	Private toll line stations associated with 102-type key equipment.
F2D	Black	H4AP-9	F1	HA2	F2-3	P-456235	P-456236	Equipped with a 289B plug.	L carrier order wire.
F2E	Black	H4BC-9	F1	HA1	P-349910	P-456235	P-456236		74-, 174-, 176-, D178940-, and D178942-type coin collectors.
F2G	Black	H4AP-9	F1	HA3	F2-3	P-456235	P-456236	Equipped with a 289B plug.	Order wire of TD-2 microwave system.
F2H	Black	H4AD-9	F1	HA1	P-349910	P-456235	P-456236	Fabric-covered cord.	182J mobile-radio coin collectors on railroads.
F4A	Black	H3AG-9	T1	U1	F4-3	P-456235	P-456236		Replaces F1G where transmission requires.
F4B	Black	H3AE-9	T1	U1	F4-3	P-456235	P-456236		Replaces F1B where transmission requires.
F5A	Black	H4BC-9	T1	U1	F5-3	P-456235	P-456236		Replaces F2E where transmission requires.
F6A	Black	H3R-9	K1	HA1	F6A	P-456235	P-457594	See 2.05. **	320-type and some KS-14476 explosion-proof sets.
F6B	Black	H4BE-9	K1	HA1	P-19A693	P-456235	P-457594	See 2.05. **	KS-14548 and some KS-14476 explosion-proof sets.

* These are painted handsets, and do not have separate transmitter caps or receiver caps.

The entire handset should be replaced as a unit.

** So as not to spoil the explosion-proof characteristics, only the transmitter caps and receiver caps should be replaced in the field.

† Handsets are equipped with waterproof cords unless otherwise stated in the Remarks.



Fig. 3—F3-Type Handset

Table C
F3-TYPE PUSH-TO-TALK HANDSETS

Handset	Cord	Rec Unit	Contact Spring Assembly	Remarks *	Used With
F3B	H4AM	HA1	P-481188 (2 reqd)	Has a 289A plug and a 4-ft or 12-ft cord.	Telegraph position of toll test board.
F3F	H4AM	HA2	P-481188 (2 reqd)	Has a 289A plug and a 4-ft or 12-ft cord.	102-type key equipment.
F3H	H4AN	HA1	P-481188 (2 reqd)	Has a fabric-covered 4-ft or 12-ft cord	4-wire private line equipment associated with 102A or 109A key equipment.
F3J	H3AG	HA1	P-477721 P-477722	Switch removes a transmitter shunt. Has a 4-ft or 9-ft cord.	102A key equipment.
F3K	H4AL	HA1	P-479960 P-479961 P-477722	Switch has break and make contacts. Has a 9-ft cord.	324A telephone set.
F3L	H4AL	HA1	P-477722 P-477721	Switch has break contact only.	324A telephone set.
F3M	H4AL	HA1	P-481188 (2 reqd)	Switch has make contact only.	324A telephone set.
F3N	H4AM	HA3	P-481188 (2 reqd)	Has a 289A plug and a fabric-covered 4-ft or 9-ft cord.	4-wire private line equipment associated with 102A or 109A key equipment.
F3P	H5C	HA3	P-481188 (2 reqd)	Fabric-covered cord.	CAA equipment.
F3S	H4AM	HA1	P-481188 (2 reqd)	Has a 289A plug and a 4-ft or 12-ft cord.	Type L carrier.
F3U	H4AN	HA1	P-481188 (2 reqd)	Has a 4-ft or 12-ft cord.	Type L carrier.
F3AAW3	H5E	HA6	P-481188 (2 reqd)	Fabric-covered cord has a 347B and a 309A plug.	82A test set for mobile radio telephone.
F3ABW3	H6A	HA6	P-481188 (2 reqd)	Fabric-covered cord has an Amphenol KS-10046, L1 connector and a PM6-11 plug.	Test equipment for RCA and Motorola mobile radio telephone.
F3ADW3	H5K H5L	HA6	P-481188 (3 reqd)	Order cord separately. H5K cord has spade tip ends. H5L cord has MC4M connector.	Motorola private line radio telephone equipment.
F3AEW3	H5H	HA6	P-481188 (2 reqd)	Switch closes an external circuit. Has an MC4M connector.	General Electric mobile radio telephone systems.
F3WW3	H5D	HA6	P-481188 (2 reqd)	Fabric retractile cord.	Mobile radio telephone. Primarily used with the 41A control unit.

* Handsets are equipped with waterproof cords unless otherwise stated in the Remarks.



Fig. 4—G-Type Handset

Table D
G-TYPE HANDSETS

Handset**	Cord**	Handle	Rec Cap	Trs Cap	Remarks*	Used With
G1A G1AR	H4BF H4BH	P-339616 P-339616	P-349532 P-349532	P-349533 P-349533	With retractile cord.	500-type telephone sets and 211L or 212L hand telephone set.
G1B G1D	H4BJ H4BK	P-339616 P-339616	P-349532 P-349532	P-349533 P-349533	With a 289A plug.	Long loop coin collectors. PBX or key systems.
G3A-50 G3A-51	H4BG-50 H4BG-52	P-13A408 P-13A409	P-19B722 P-19B723	P-19B738 P-19B739		500-type telephone sets in color.
G3A-52 G3A-53	H4BG-52 H4BG-53	P-13A410 P-13A411	P-19B724 P-19B725	P-19B740 P-19B741		
G3A-54 G3A-55	H4BG-54 H4BG-55	P-13A412 P-13A413	P-19B726 P-19B727	P-19B742 P-19B743		
G3A-56 G3A-57	H4BG-56 H4BG-52	P-13A414 P-13A415	P-19B728 P-19B729	P-19B744 P-19B745		
G3AR-50 G3AR-51	H4BH-50 H4BH-52	P-13A408 P-13A409	P-19B722 P-19B723	P-19B738 P-19B739		
G3AR-52 G3AR-53	H4BH-52 H4BH-53	P-13A410 P-13A411	P-19B724 P-19B725	P-19B740 P-19B741	With retractile cords.	
G3AR-54 G3AR-55	H4BH-54 H4BH-55	P-13A412 P-13A413	P-19B726 P-19B727	P-19B742 P-19B743		
G3AR-56 G3AR-57	H4BH-56 H4BH-52	P-13A414 P-13A415	P-19B728 P-19B729	P-19B744 P-19B745		
G4A	H4BF	P-19B929	P-349532	P-349533	See Section C32.204, G4A Handset.	

* All handsets are equipped with waterproof cords.

**Color codes for cords and handsets shown above are: 50—Ivory, 51—Green, 52—Gray, 53—Red, 54—Brown, 55—Beige, 56—Yellow, 57—Blue.



Fig. 5—G2-Type Handset

TABLE E
G2-TYPE PUSH-TO-TALK HANDSETS

Handset	Cord	Remarks*	Used With
G2AR	H5G3	Switch closes an external circuit. Equipped with retractile cord.	Mobile radio with the 47A control unit.
G2B	H6B	Switch closes an external circuit. Equipped with a fabric-covered cord.	Special 4-wire radio-telephone service.
G2CR	H4BL	Equipped with a 289A plug.	CAA and private-line systems.
G2D	H4BF	Switch shunts transmitter.	With 532-type telephone set in noisy locations.
G2E-3	H5N-3	Noise — discriminator switch cuts noise in transmitter, increases gain in receiver.	535-type telephone set in noisy locations.

* Handsets are equipped with waterproof cords unless otherwise stated in the Remarks.



Fig. 6—Sleeve-Type Bushing on F6A Handset



Fig. 7—Threaded-Type Bushing on F6B Handset