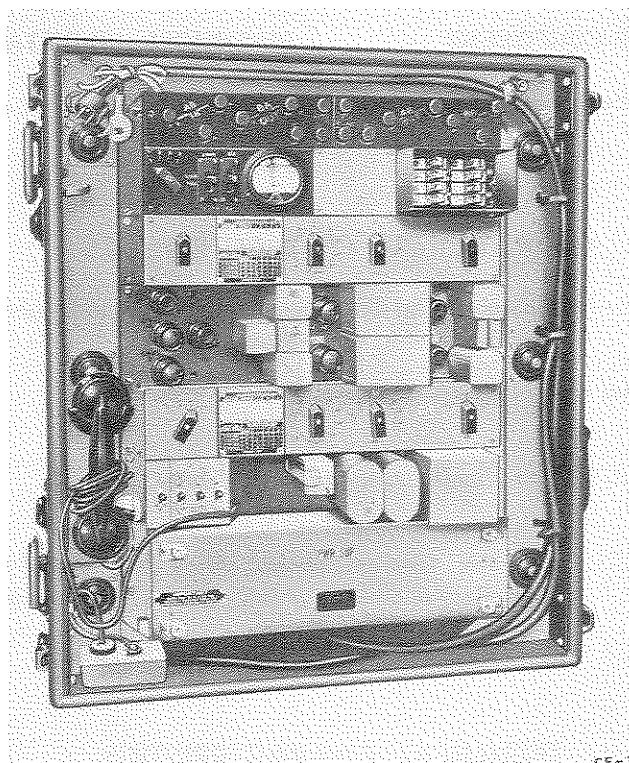


STATUS: Standard	AN/TCC-TYPE
CLASSIFICATION OF EQUIPMENT: Unclassified	
USING SERVICE: Army	
DATE OF THIS SHEET: 9 Jan 52	
SERVICE TYPE NUMBER: CF-3	
REPEATER	



Repeater CF-3 is a carrier repeater equipment used to extend the range of telephone and telegraph carrier facilities using spiral-four or equivalent wire or cable in systems serving division, corps, or higher headquarters.

Equipment consists essentially of two one-way amplifiers and provides for deriving two d-c ground-return simplex circuits from the two associated cable pairs in each direction. One such circuit is used for signaling, the other may be used for d-c telegraph. Transmission in direction A-B is over one pair; B-A is over the other pair. Channel 1 uses the v-f band; channels 2, 3, and 4 are in the carrier-frequency range. Each telephone channel uses the same frequency in both directions.

The CF-3 is the primary operating component of Repeater Set TC-23 and can be storage battery operated in emergencies.

AN/TCC-TYPE		INSTRUCTION LITERATURE: TM 11-341 TM 11-4403
CF-3	:SERVICE TYPE NUMBER	CLASSIFICATION OF EQUIPMENT: Unclassified
REPEATER		USING SERVICE : Army DATE OF THIS SHEET : 9 Jan 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
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(Equipment consists only of a single major operating component.)

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Intermediate points in facilities serving division and higher headquarters.

INSTALLATION: Ground; transportable. Operates in fixed locations.

MAXIMUM SYSTEM LENGTH: At 25-mile intervals in a system.

CAN COMMUNICATE WITH: Repeater, terminal, central office, and related station equipment and subsidiary apparatus which operate in the same connecting facility in tactical or cable systems.

TECHNICAL CHARACTERISTICS

FACILITIES REQUIRED FOR TRANSMISSION: Spiral-four or equivalent quality facilities.

FACILITIES AFFORDED: Four-wire telephone and telegraph.

FREQUENCY: 200 to 12,000 cyc.

TYPE OF MODULATION: Am.

POWER REQUIREMENTS: 30 w 115/230 v, 50/60 cyc ac or 3.75 amp from 12-v storage battery in emergencies.

PHYSICAL CHARACTERISTICS

Repeater CF-3 measures 28 x 14 x 34 inches, net weight 225 pounds, volume 9 cu ft.

Packed for export shipment: total weight 340 pounds, total volume 17.9 cu ft. Shipped in 1 package.