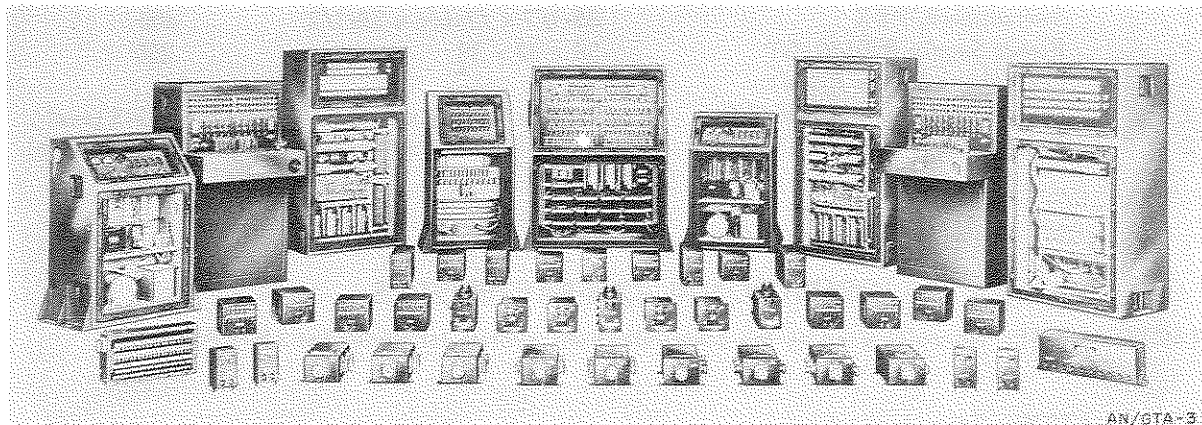


STATUS: Substitute Standard
 CLASSIFICATION OF EQUIPMENT: Unclassified
 USING SERVICE: Air Force
 DATE OF THIS SHEET: 10 Jun 52

AN/GTA-3

TELEPHONE CENTRAL GROUP



Telephone Central Group AN/GTA-3 is a complete telephone communication system used with, but not part of, Radar Set AN/FPS-3. It provides telephone communication between radar set operating personnel and outside points, which include aircraft in flight, radio communication with 12 v-h-f and three h-f transmitters and receivers, and wire telephone communication through four trunk lines to commercial telephone systems, with provisions for either magneto ringing or dial calling.

Although this equipment is operated independently of Radar Set AN/FPS-3, except for the supply of 120 v, 60 cyc ac for charging the batteries and providing ringing power, a correct telephone installation cannot be made previous to the installation of the radar set.

The input supply from the radar power distribution cabinet is 24 v dc to the main frame and relay rack and the ringing supply is 80 v, 20 cyc ac.

Maximum d-c drain from the telephone power unit is 10 amp. Two Storage Batteries BB-53 are used, supplying 45 amp at 12 v dc for 20 hours at a discharge rate of 2.25 amp.

AN/GTA-3

INSTRUCTION LITERATURE:
TO 16-30 FPS-23
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE : Air Force
DATE OF THIS SHEET : 10 Jun 52

TELEPHONE CENTRAL GROUP

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Telephone Switchboard SB-116/GT (Chief Controller's Telephone Unit)	27 x 48-1/2 x 18	240
1	Telephone Switchboard SB-115/GT	24-1/2 x 42-3/4 x 18	200
1	Switchboard, PBX	35-1/2 x 47-1/4 x 22-1/2	400
1	Power Supply PP-559/GT (Telephone Power Panel)	28 x 37 x 18	250
2	Distribution Panel SB-95/GT	9-7/8 x 18-1/8 x 5	17.5 (each)
2	Distribution Panel SB-136/GT	9-7/8 x 18-1/8 x 5	17.5 (each)

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Normally used as the communications system for Radar Set AN/FPS-3.

INSTALLATION: Ground, fixed.

CAN COMMUNICATE WITH: Aircraft in flight; and ground telephone stations.

TECHNICAL CHARACTERISTICS

TYPE OF SIGNAL: Voice.

TYPE COMMUNICATION CIRCUITS: Standard line telephone circuits.

CONTROLS: Manually operated switches, plugs, and microphones.

POWER REQUIREMENTS: 1,200 w (10 amp) 120 v, 60 cyc, 1 phase ac .
2 storage batteries (ea) 24 v, (45 amp 20 hr) .

PHYSICAL CHARACTERISTICS

Telephone Central Group AN/GTA-3 weighs 3,820 pounds net, volume 602.177 cu ft.
Packed for domestic or export shipment: total weight 7,636 pounds, total volume 602.177 cu ft,
15.05 ship tons. Shipped in 38 packages.