

Radio Transmitting Set AN/ARW-18 is the F-M transmitting equipment of a system designed for remote flight control of BQ-7 and BQ-8 war-weary aircraft for offensive bombing missions.

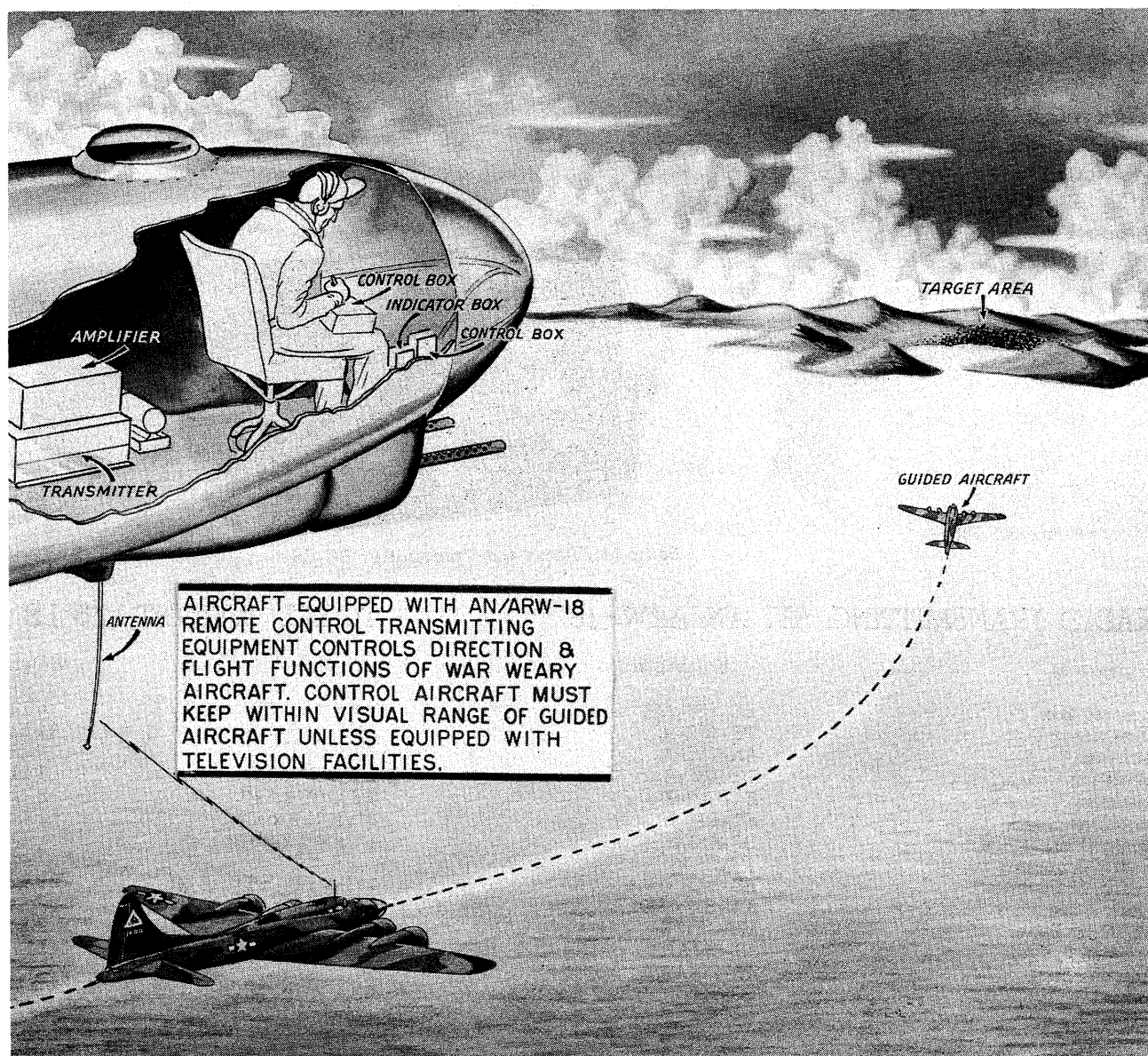
Used in conjunction with Radio Receiving Equipment AN/ARW-1, 1A, or 1B, remote control may be effected from ground to air, or air to air, up to 18 miles (normal range). The effective control range may be extended to 75 miles by use of RF amplifier unit AM-33/ART which increases the transmitted power by amplifying the output of the transmitter (AN/ARW-18). Target Control Transmitting Equipment RC-65 is similar to this equipment in construction and operation, however, tactical application is entirely different. Radio Modulator and Transmitter BC-925 may be pre-set to operate at any point within the frequency band between 30 Mc and 40 Mc.

Operation of the aircraft may be controlled through the manual operation of the controls on Control Box BC-756. This will result in transmission of certain tones to the plane for each of the (ten) movements or functions that may be desired ("up", "down", etc). One Control Box (BC-756) is supplied for each of the two operators

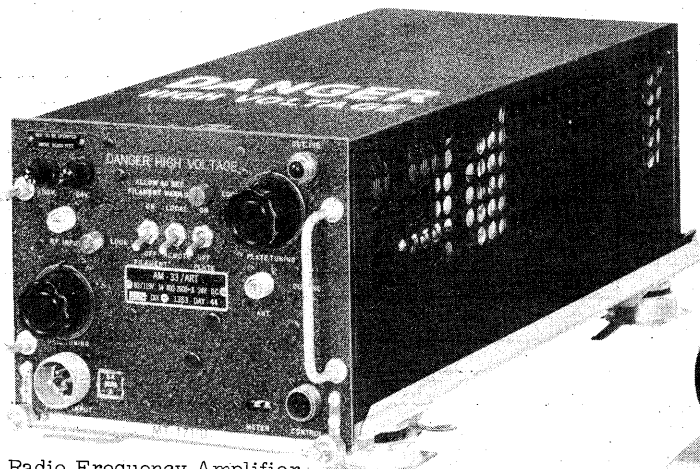
required to properly control the operation of this type aircraft.

POWER INPUT	240 w. 28 v. d-c
POWER OUTPUT	20 w. without amplifier 100 w. with amplifier
FREQUENCY	30 - 40 Mc
TYPE OF SIGNAL	F-M
RANGE	18 miles (normal) without amplifier 75 miles with amplifier
OPERATORS	Two

TUBE COMPLEMENT			
NO.	TYPE	NO.	TYPE
1	12SL7GT	2	12A6
4	12SJ7	1	1625
8	12SN7GT	2	4E27
2	12SA7	2	836



Radio Transmitting Equipment AN/ARW-18 is installed in aircraft for the purpose of guiding power driven bombs during their free flight to a target.



Radio Frequency Amplifier  
AM-33/ART

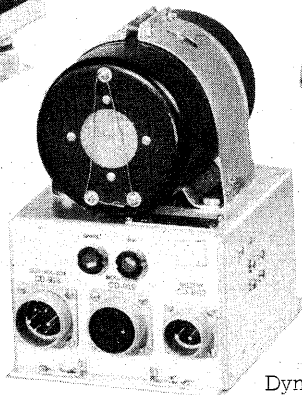


Radio Control Box  
BC-494

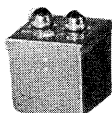


Antenna System  
AS-89/ART

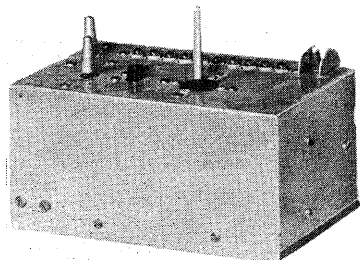
Antenna



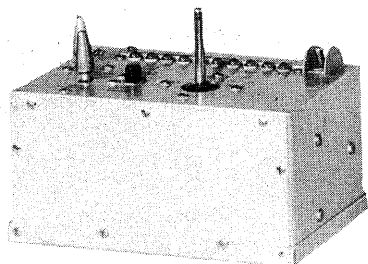
Dynamotor Unit  
PE-180-A



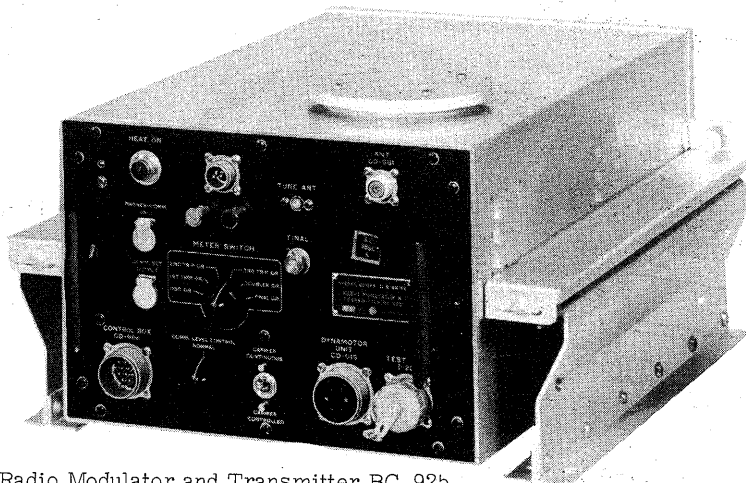
Indicator Box  
BC-727



Control Box BC-756-A



Control Box BC-756-A



Radio Modulator and Transmitter BC-925

RADIO TRANSMITTING SET AN/ARW-18

TOTAL WEIGHT 125 LB

Component	Nomenclature	Size	Weight
Control Box	BC-756-A (2 each)	6" x 6" x 8"	5 Lb
Dynamotor Unit	PE-180-A	10" x 6" x 8"	14 Lb
Antenna	AN-117-A	6'	2 Lb
Mounting	FT-462-A	2" x 6" x 18"	3 Lb
Mounting	FT-442-A	2" x 6" x 18"	3 Lb
Mounting	FT-443-A	6" x 11" x 1"	1 Lb
Radio Control Box	BC-494	4" x 4" x 3"	1 Lb
Radio Modulator and Transmitter	BC-925	21" x 16" x 9"	39 Lb
Radio Frequency Amplifier	AM-33/ART	8" x 11" x 21"	39 Lb
Mounting Base	MT-171/U	2" x 11" x 22"	3 Lb
Antenna System	AS-89/ART		
Antenna Base	AB-29/ART		
Indicator	BC-727	3" x 2" x 2"	*
Lamp	LM-49		*

\* Less than 1 lb.

AN/ARW-18 also includes clip, plugs, adapters, cable adapters, insulations, sockets, cordage, jack, receptacle, binding posts, fibre shoulder bushing and radio frequency cable.