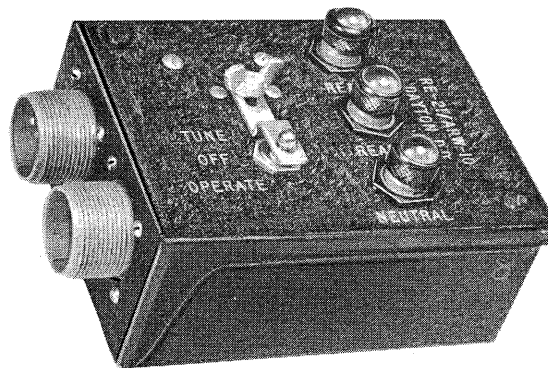


Radio Set AN/ARW-10 is the receiving equipment of an airborne remote control bomb release system designed to effect release of bombs simultaneously from all airplanes in a formation. This equipment is considered to be especially suitable for bombing targets which require concentrated bombing patterns such as factories, railroad yards, warehouses, etc. Overall utility of this system is increased by use of advanced type of radar bombing equipment in leading aircraft.

Remote control of the bomb release system of any convenient number (usually twelve) of aircraft (equipped with AN/ARW-10), may be effected from one airborne transmitter (AN/ARW-9) by manipulation of the Control Box (BC-1156-A) to either one of the two control positions. This will result in transmission to the "controlled" station of a certain tone for each of the (two) control effects that may be desired. Receiver R-74/CRW-2 (also the major component of AN/CRW-2) a superregenerative receiver that may be preset on any one of five different frequencies, includes a two channel audio-filter-selective circuit and associated relays. The selective circuit discriminates between the two control tones received and relays the resulting control voltages to the bomb release actuating equipment.

Radio Set AN/ARW-10A contains an improved radio receiver (R-150/CRW-7) with a frequency range of 66 to 93 Mc, and an improved relay unit (RE-33/ARW-10 A). AN/ARW-10A is designed to replace AN/ARW-10.

AN 08-30ARW10-2 is the HOI for AN/ARW-10, and AN 16-30ARW10-3 is the HOI and AN 16-30/ARW10-5 is the HMI for AN/ARW-10A.



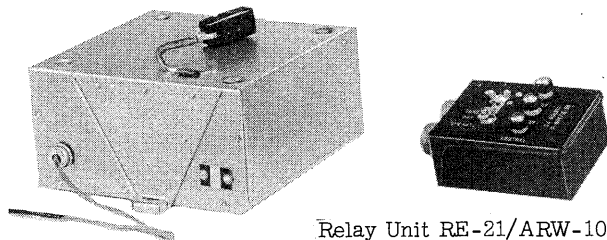
Relay Unit RE-21/ARW-10, installed in the bombardier's position, provides visual indication of operation and emergency on-off switch in case of equipment failure.

Test Equipment for maintenance of these systems consists of the following items:

- | | |
|--------------|------------------|
| AN/ARW-10 | Test Box |
| TS-154/CRW-2 | Signal Generator |
| GR-804-CS-1 | Audio Oscillator |
| Jackson 652 | Frequency Meter |
| TS-174/U | |
| AN/ARW-10A | Test Equipment |
| AN/CRW-5 | |

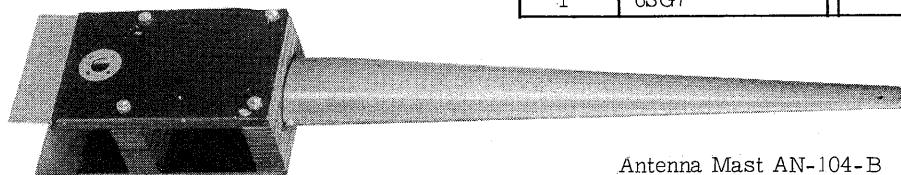
POWER INPUT	78 w, 24 - 28 v, d-c
FREQUENCY	AN/ARW-10: 80 - 90 Mc AN/ARW-10A: 66 - 93 Mc
TYPE OF SIGNAL	Modulated C-W
RECEIVER SENSITIVITY	R-74/CRW-2: 30 - 200 microvolts R-150/CRW-7: 50 microvolts

TUBE COMPLEMENT			
NO.	TYPE	NO.	TYPE
AN/ARW-10		AN/ARW-10A	
1	6SN7GT	6	6AG5
3	6SL7GT	2	6J6
1	6J5	1	6AL5
1	6SG7		



Radio Receiver R-74/CRW-2

Relay Unit RE-21/ARW-10



Antenna Mast AN-104-B

RADIO SET AN/ARW-10

TOTAL WEIGHT 20 LB

Component	Nomenclature	Size	Weight
Radio Receiver	R-74/CRW-2	4" x 8" x 8"	13 Lb.
Relay Unit	RE-21/ARW-10	5" x 3" x 2"	1 Lb.
Antenna Mast	AN-104-B		3 Lb.
Tuning Unit	TN-43/CRW-2		1 Lb.
Tuning Unit	TN-44/CRW-2		1 Lb.
Lamp	LM-49 (3 ea)		*

RADIO SET AN/ARW-10A

TOTAL WEIGHT 22 LB

Radio Receiver	R-150/CRW-7	16 Lb.
Relay Unit	RE-33/ARW-10	1 Lb.
Antenna	AN-104-B	3 Lb.

AN/ARW-10, 10A also include plugs, cables, adapters etc.
* Less than 1 lb.