

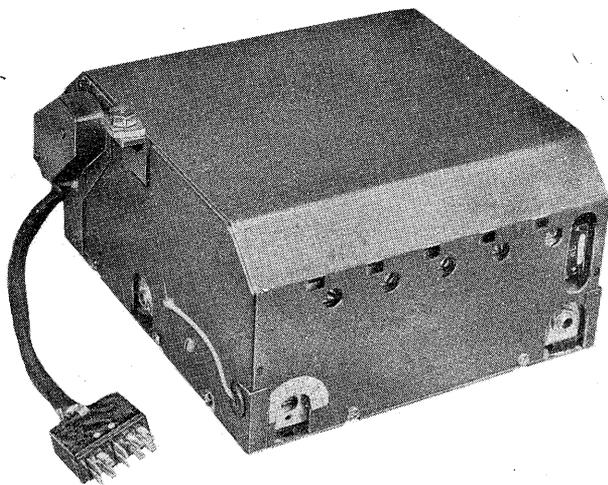
Radio Receiving Set AN/CRW-7, part of a remote control bombing system consists of a radio receiver and auxiliary equipment, designed for remote control of, and installation in high angle, free falling bombs such as the VB-3 (Razon). Used in conjunction with Radio Transmitting Set AN/ARW-38, the movement ("right-left", "up-down") of the falling bomb may be controlled up to maximum visible range. A high intensity flare attached to the tail of the bomb aids in following the path of flight.

Remote control of the missile may be effected from the airborne transmitting station (AN/ARW-38) by manipulation of the control box to either of the four control positions. This will result in transmitter carrier modulation and transmission to the missile of a certain audio tone for each of the (four) movements that may be desired ("up", "down", etc). Radio Receiver R-150/CRW-7, a crystal controlled superheterodyne receiver that may be pre-set on any one of 47 frequencies, includes a four channel audio-filter-selector circuit and associated relays. The selector circuit discriminates between the various control tones received and passes the resulting control voltages to the proper servos that actuate the aircraft control surface mechanisms.

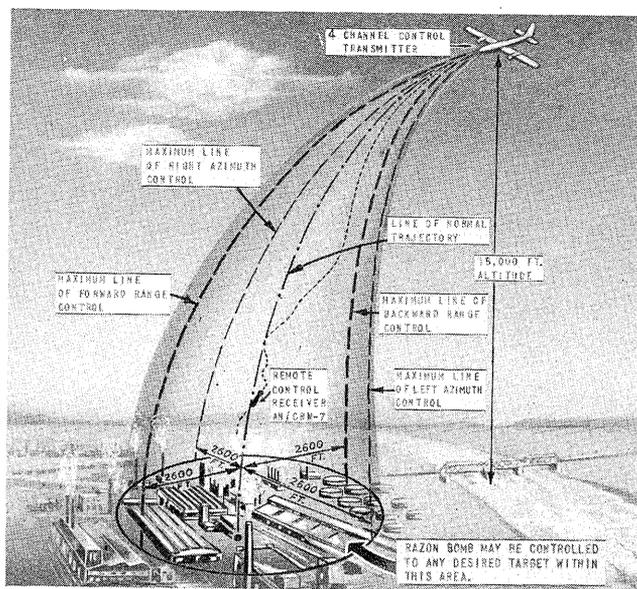
AN 16-30CRW-7-2 is the HOI and CO-AN 16 30CRW7-2-M is the HMI for AN/CRW-7.

The following test equipment is required for maintenance of this unit:

TS-326/U	Test Oscillator	Class A or B
TS-297/U	Multimeter	Class A or B
TS-239/UP	Oscilloscope	Class B
TS-375/U	Voltmeter	Class B
TS-352/U	Multimeter	Class B
TS-414/U	Dynamotor	Class B
I-177	Tube Tester	Class B



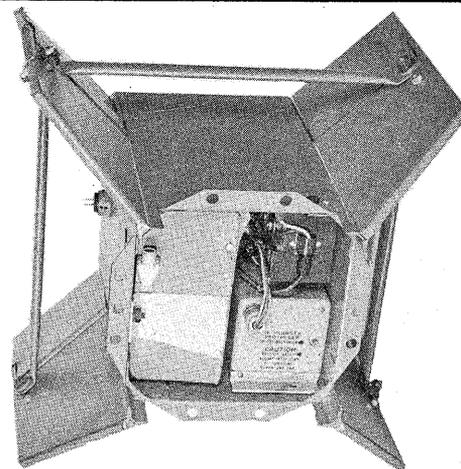
Radio Receiver R-150-CRW-7



The Remote Controlled "Razon" Bomb can be controlled in both Range and Azimuth as shown above.

POWER INPUT	72 w. 24 v. lead-acid battery
FREQUENCY	65.9 - 92.3 Mc
TYPE OF SIGNAL	Modulated CW
RANGE	Line of sight
RECEIVER SENSITIVITY	50 microvolts

TUBE COMPLEMENT			
NO.	TYPE	NO.	TYPE
6	6AG5	1	6AL5
2	6J6		



Tail Assembly of Radio Bomb showing installation of Radio Receiving Set AN/CRW-7

RADIO RECEIVING SET AN/CRW-7

TOTAL WEIGHT 16 LB

Component	Nomenclature	Size	Weight
Radio Receiver	R-150/CRW-7	9" x 8" x 5"	16 Lb
Crystal Unit	CR-1A/AR		
Plug	Jones Type P-310-CCT		

AN/CRW-7 also includes operating and maintenance handbooks and necessary spare parts groups.