

Target Control Receiving Equipment AN/ARW-26 consists of a radio receiver and auxiliary equipment designed for installation in target aircraft to control the elementary movements of the target aircraft for gunnery practice. It operates in conjunction with Target Control Transmitting Equipment RC-56- ().

The operating frequency of the receiver may be at any one of four predetermined points between the limits of 67 to 74 Mc. The frequency used depends on the number of similar systems in operation at one location.

Manual operation of the "control stick" at the transmitting station (RC-56) will result in the transmission to the target plane of different tones for each of the (five) control movements or functions desired, ("up", "down", etc.). Receiver Selector R-116/ARW-26 includes a five channel audio filter selector circuit for discrimination between the various tones received and a complex relay circuit for passing resulting control voltages to the control surfaces mechanism of the plane. Battery Box CY-237/ARW-26 supplies all the power required for 1 1/2 hours of continuous operation.

Although this target control receiving equipment can be controlled from a distance beyond normal vision, the equipment is intended only for use in the normal visual range of the control operator.

Target Control Receiving Equipment AN/ARW-26 is functionally similar to RC-57- () but due to the waterproofing of the former the components are not interchangeable as units. AN/ARW-26 is replacing RC-57- ().

AN/ARW-26X is similar to AN/ARW-26 except that it contains a built-in high voltage vibrator power pack that operates from the 6 volt battery used to power the target plane.

Test Set TS-257()/ARW is used to maintain these equipments.

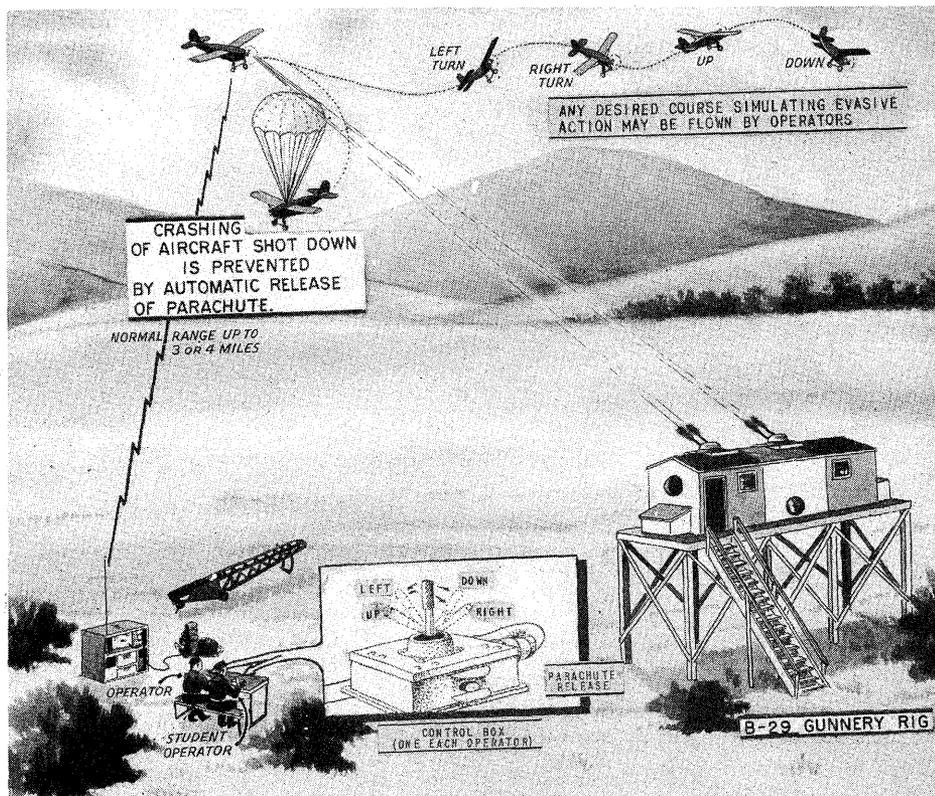
Army Air Forces Technical Order AN 08 - 16ARW26-2 is the HMI for this system.



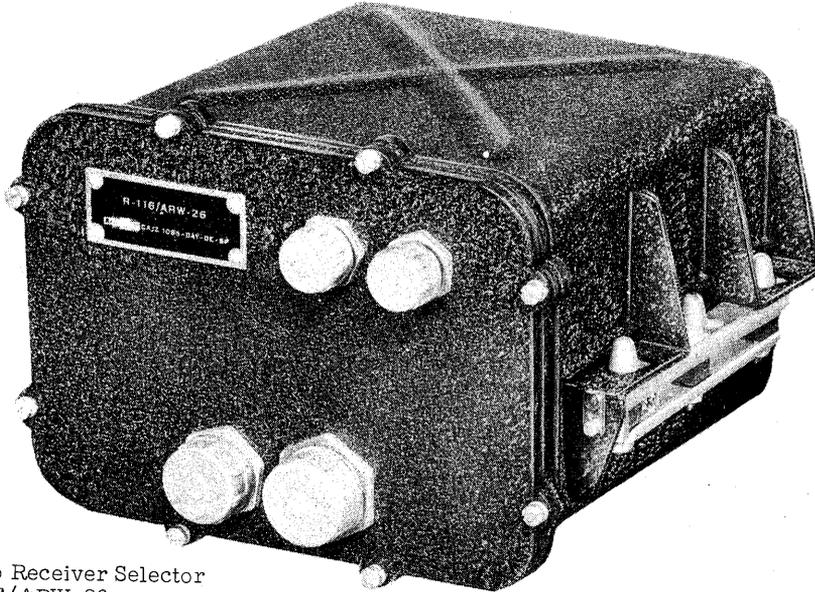
Target Aircraft OQ-2A- One of the series of target aircraft remotely controlled by this equipment.

POWER INPUT AN/ARW-26	(2) 6 v and (3) 67 1/2 v batteries
AN/ARW-26X	18 w, 6 v, d-c (From plane)
FREQUENCY	64 - 74 Mc
TYPE OF SIGNAL	Modulated C-W
RANGE	10 miles maximum 3 - 4 miles normal
RECEIVER SENSITIVITY	200 microvolts

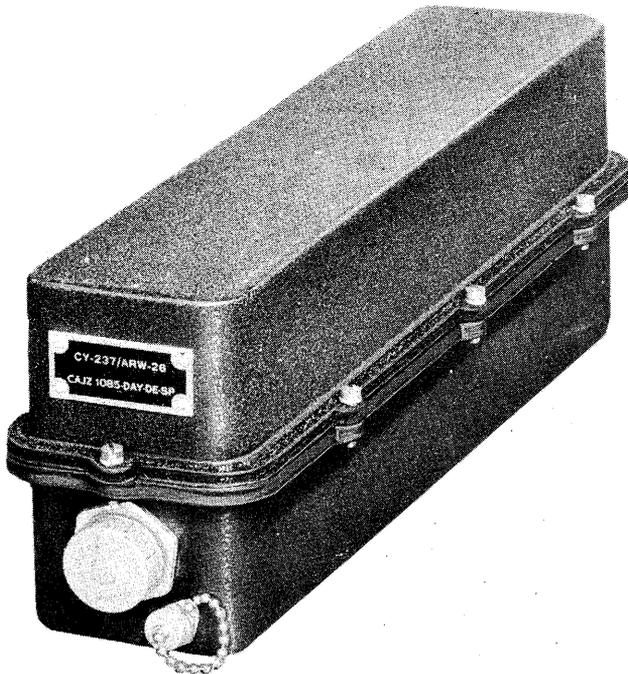
TUBE COMPLEMENT			
NO.	TYPE	NO.	TYPE
7	3Q4	1	9003
1	9002		



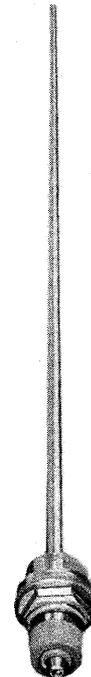
Radio Receiving Set AN/ARW-26 is a waterproof, dust proof and humidity proof target control receiving equipment designed to control ground vehicles, airborne and waterborne target craft.



Radio Receiver Selector
R-116/ARW-26



Battery Box CY-237/ARW-26



Antenna Assembly
AS-234/ARW-26

TARGET CONTROL RECEIVING EQUIPMENT AN/ARW-26

Component	Nomenclature	Size	Weight
Battery Box	CY-237/ARW-26	4" x 5" x 13"	5 Lb
Radio Receiver and Selector	R-116/ARW-26	7" x 8" x 9"	4 Lb
or Radio Receiver and Selector	R-143/ARW-26X	7" x 8" x 9"	4 Lb
Mounting	FT-441 (2 each)	1" x 5" x 6"	
Tuning Unit	TU-55		
Antenna Assembly	AS-234/ARW-26	13" long 2" dia	
		TOTAL WEIGHT	10 LB

AN/ARW-26 also includes package of maintenance parts, plugs, coupling nuts, etc.