

TEACHER OUTFIT HRL(1)

HRL(1)

SUMMARY OF DATA

PURPOSE

To provide target acquisition training and practice for the operator of gun direction and fire control radar equipments of the following types and combinations.

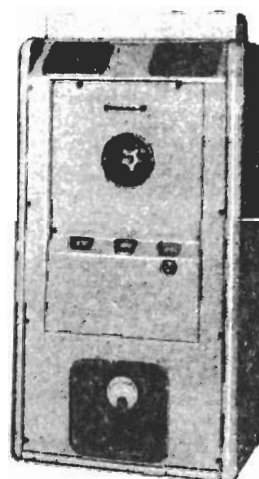
- F.C. Radar Type 275M/P - G.D. Radar Type 293P/Q
- F.C. Radar Type 903 - G.D. Radar Type 992
- F.C. Radar Type 903 - G.D. Radar Type 293P/Q

BRIEF DESCRIPTION

The Target Cam Assembly has three component cams, contoured to represent the variations in target range, bearing and elevation. The cam assembly is rotated by a drive motor unit and motions are picked off from the cams and imparted to magslips and potentiometers in the teacher.

The magslips in the teacher are linked with magslip transmissions from the radar equipments, thus producing output signals which represent the angular misalignments between the radar aeriels and the teacher target; these signals are used to control the amplitude of the artificial aircraft echo pulses produced by the teacher pulse circuits.

The radar equipments feed sync pulses to the teacher pulse circuits which then generate delayed pulses to be fed back to the radar equipments. The amount of delay which represents the range of the target, is controlled by potentiometers driven by the range cam in the teacher. Subsidiary control signals from the radar equipments are fed into the teacher to simulate special characteristics of radar operation.



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MAJOR UNITS

Part. No.	Description	Physical Data			
		Height	Width	Depth	Weight
62290	Cabinet Design 128, Unit A (with shock mounting)	43½ in 49 in	21½ in 21½ in	13½ in 13½ in	94½ lb -
62291	Target Course Generator, Unit B	-	-	-	80 lb (includes chassis)
62292	Pulse Unit, Unit D	-	-	-	15 lb
62293	Target Data Unit, Unit F	-	-	-	20 lb
62294	Rectifier Unit, 63BZ Unit G	-	-	-	70 lb
63465	Motor Drive Assembly, Unit C	-	-	-	19 lb

NOTE: AP 62291 includes one each of AP 62293 and AP 63465.

POWER REQUIREMENTS

115 V or 230 V, 50/60 Hz, single phase a.c.
350 W average consumption, 400 W maximum.

TARGET CAM ASSEMBLIES

AP No.	Description
62295	Cam Assembly No. 1 Special alignment Cam for setting up and testing.
62296	Cam Assembly No. 2 Level bombing attack on consort.
62297	Cam Assembly No. 3 Dive bombing attack on own ship.
62298	Cam Assembly No. 4 Evasive dive attack on own ship.
62299	Cam Assembly No. 5 Low approach to own ship with climb and dive attack.

NOTE: The carrying case for AP 62295 has provision for the stowage of a flexible test cable AP 63467.

RESTRICTED

BR 333(1)
Original

HANDBOOK

BR 204(1)

ESTABLISHMENT LIST

E 1118

INSTALLATION SPECIFICATION

B808