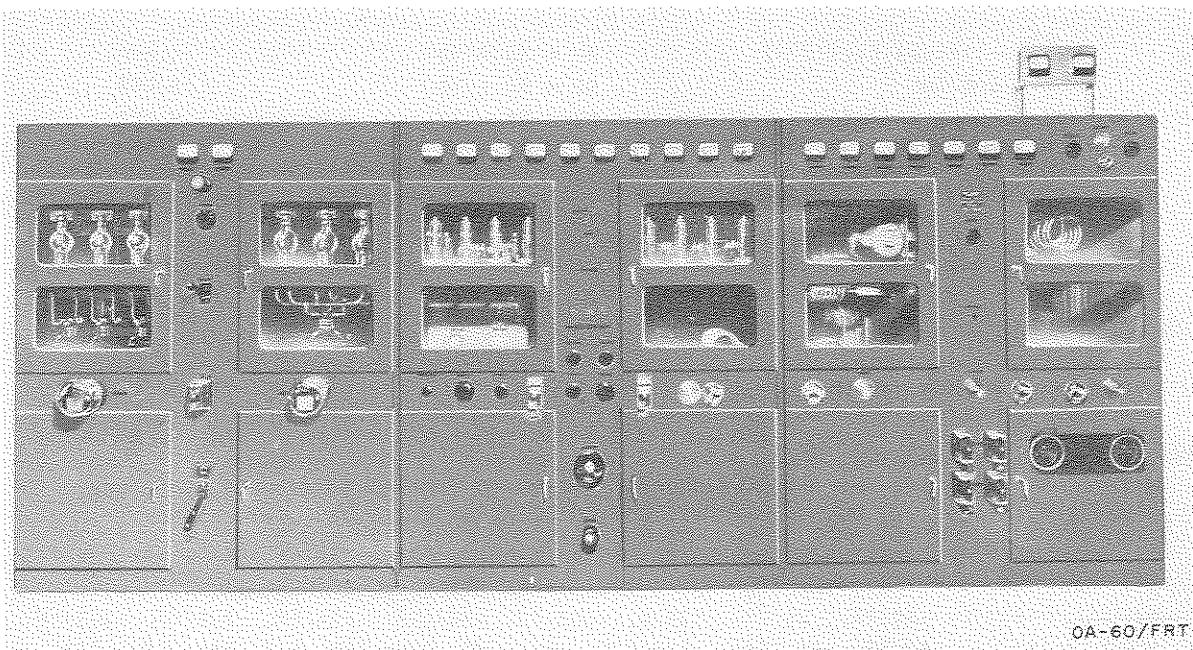


STATUS: Standard	AN/FRT-TYPE	
CLASSIFICATION OF EQUIPMENT:Unclassified		
USING SERVICE: Army		
DATE OF THIS SHEET: 15 Feb 52		
AN/COMP TYPE NUMBER: OA-60/FRT		
RADIO TRANSMITTER ASSEMBLY		



Radio Transmitter Assembly OA-60/FRT is a high-power, a-m (cw), single side band, high-frequency radio transmitting equipment used for point-to-point long range communication applications at large fixed stations.

This equipment consists of an assembly of operating units and components rack and panel mounted in floor-type cabinets, and includes high-voltage rectifier, r-f exciter, r-f power amplifier sections, and water cooling, crystal-control, and related accessory and auxiliary items.

It can be used with a single-side band transmitter as a linear amplifier, controlled by six different crystals, and provides a single preset operating channel.

It is used for high-speed cw, and for radioteletype communication and can be controlled locally, or from a remote operating site, by appropriate remote control equipment.

Uses a 600-ohm transmission line operating into a rhombic antenna array, has a power output of about 40 kw and operates from a 100-kw source of 230-v, 3 phase, ac.

AN/FRT-TYPE		INSTRUCTION LITERATURE: TM 11-835
OA-60/FRT :AN/COMP TYPE NUMBER		CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO TRANSMITTER ASSEMBLY		USING SERVICE: Army
		DATE OF THIS SHEET: 15 Feb 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	High-voltage rectifier	82 x 56 x 72	4,860
1	R-f exciter	82 x 56 x 72	3,090
1	R-f power amplifier	82 x 56 x 72	3,290
1	Water-cooling Unit	66 x 66 x 60	1,093

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Fixed plant.

INSTALLATION: Ground, fixed station.

APPROXIMATE RANGE (IN MILES): Long.

CAN COMMUNICATE WITH:

AN/ARC-2, -5, -8, -9, -25, -26; AN/ARR-15; AN/FRC-10; AN/FRR-3, -4, -12, -28, -32;
 AN/GRC-3, -4, -9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6, -16, -22; AN/PRC-7, -8,
 -19, -20; AN/SRR-3, -8, -12, -13; AN/TRQ-1; AN/URR-10, -22, -23; AN/VRC-1, -5, -8,
 -13, -16, -20; AN/VRQ-1; BC-312, -342, -348, -779, -794, -1004; MBS; OA-58/FRC,
 -59/FRC; R-62/PR, -80/PR, -96/SR, -129/U, -203/SR, -205/SR, -206/PR, -208/FR, -209/FR,
 -210/U, -211/U, -213/SR, -274/FRR, -320/FRC, -388/URR; RAL; RAO; RAS; RBC; RBG; RBH;
 RBM; RBO; RBP; RBS; RCF; RCG; RCH; RDE; RDM; REA; SCR-177, -188, -193, -244, -274, -293,
 -294, -298, -399, -499, -506, -508, -509, -510, -528, -536, -585, -593, -694, -704;
 TBO; TBX; TCH; TCO; TCS; AR-88 (RCA); Collins 18S-4 (AF Model); Collins 75A-2;
 Hammarlund SP-600-JX; National HRO-50.
 OA-60B/FRT. In addition to communicating with all of the above sets, will also commu-
 nicate with: AN/ARC-21; RBB; SCR-543.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: OA-60A/FRT: 5.3 - 21.

OA-60B/FRT: 4 - 21.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, or single side band.

POWER OUTPUT: 40,000 w.

POWER REQUIREMENTS: 100 kw, 240 v, 3 phase, ac or, Power Unit PE-220.

PHYSICAL CHARACTERISTICS

Radio Transmitter Assembly OA-60/FRT measures 216 x 56 x 84 inches.