

STATUS: Commercial

CLASSIFICATION OF EQUIPMENT: Unclassified

USING SERVICE: Air Force

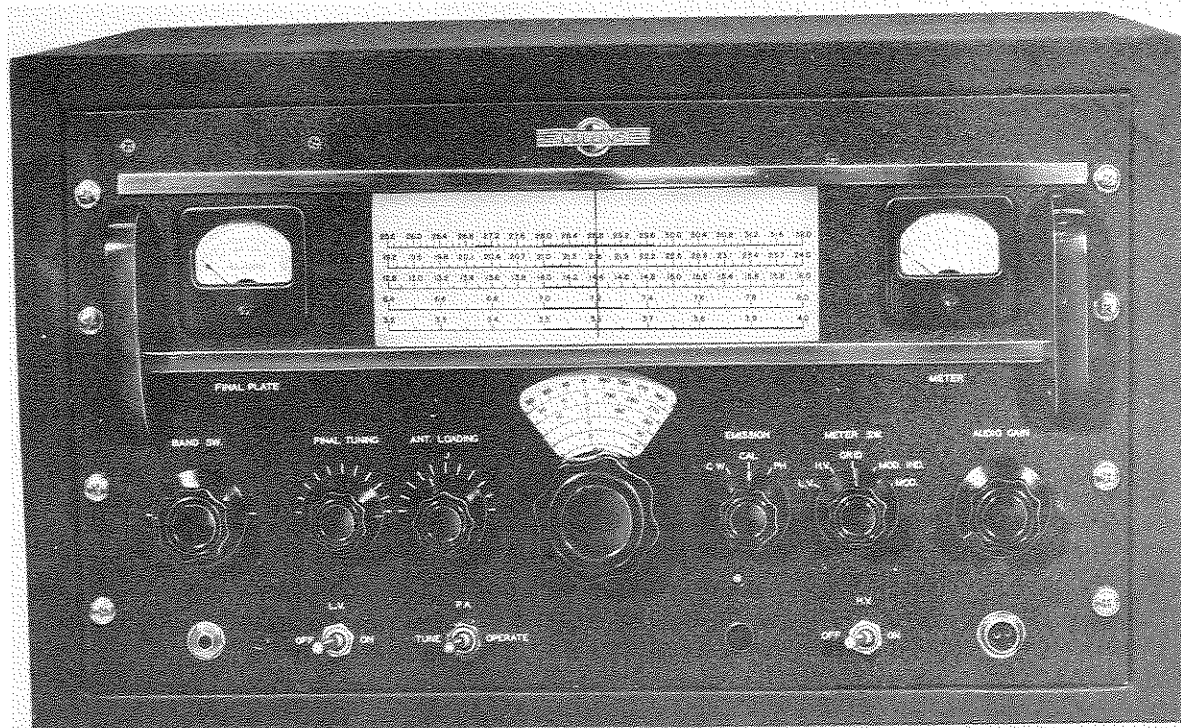
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AN/FRT-TYPE

COMMERCIAL TYPE NUMBER:

COLLINS 32V-2

RADIO TRANSMITTER



COLLINS 32V-2

Radio Transmitter Collins 32V-2 is a small, compact unit, with built-in power supply, speech amplifier, and modulator. It is capable of c-w and voice operations on all amateur bands between 3.5 and 29.7 mc by bandswitching, and by continuous tuning through its accurate permeability-tuned oscillator.

This equipment is normally used in the military Amateur Radio System (MARS) for point-to-point communication.

The output network of this transmitter will operate satisfactorily with antenna transmission line impedances of 26 to 200 ohms.

The modulator output has provisions for supplying 60 w of audio to an external 500 ohm resistive load (when it is not required for modulation of the transmitter).

Terminals are provided to turn the transmitter ON/OFF from a remote point.

It has provisions for push to talk, break-in keying when used with its companion Radio Receiver Collins 75A-2, and automatic antenna change-over relay control.

Requires 500 w of 115-v, ac.

AN/FRT-TYPE		INSTRUCTION LITERATURE: Collins Instruction Manual
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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
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(Equipment consists only of a single major operating component.)

OPERATIONAL CHARACTERISTICS**TACTICAL USE:** Issued to stations of the Military Amateur Radio System.**INSTALLATION:** Ground, fixed.**APPROXIMATE RANGE (IN MILES):** Medium to long .

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -9, -21, -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/U, -206/PR, -208/FR, -209/FR, -210/U, -211/U, -213/SR, -274/FRR, -320/FRC, -388/URR; RAL; RAO; RAS; RBB; 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, -543, -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.

TECHNICAL CHARACTERISTICS**FREQUENCY RANGE IN MEGACYCLES:** 3.2 - 32.0 in 5 bands.

Band 1: 3.2 - 4.0

Band 4: 19.2 - 24.0

Band 2: 6.4 - 8.0

Band 5: 25.6 - 32.0.

Band 3: 12.8 - 16.0

TYPE MODULATION: Am.**TYPE OF SIGNAL:** Voice or cw.**POWER OUTPUT:** Voice: 90 w

Cw: 113 w.

POWER REQUIREMENTS: 500 w (maximum), 115 v, 50/60 cyc, 1 phase, ac.**PHYSICAL CHARACTERISTICS**

Radio Set Collins 32V-2 measures 21-1/8 x 12-1/4 x 13-13/16 inches, net weight 110 pounds, volume 3.57 cu ft. Packed for domestic and export shipment: total weight 128 pounds, total volume 4 cu ft. Shipped in one package both domestic and export.