

STATUS: Commercial
 CLASSIFICATION OF EQUIPMENT: Unclassified
 USING SERVICE: Air Force
 DATE OF THIS SHEET: 10 Jun 52

AN/MRC-TYPE

COMMERCIAL TYPE NUMBER: FISHER TS25-3
 RADIO SET



FISHER TS 25-3

Radio Set Fisher TS25-3 is composed of Radio Transmitter TS25-3, Radio Receivers RS25-3 and RS25-4, power supplies and other ancillary items to make up a complete two-way radio communication set. This equipment is designed for a-m vehicular or mobile operation, for point-to-point and ground-to-air communication. It is to be replaced by Radio Set AN/VRC-19.

Both radio receivers operate in four crystal-controlled channels in the 0.2 to 0.8 m-c range, and in one variable frequency band (channel 5). Channel 5 in Radio Receiver RS25-3 covers the 3.0 to 4.5 m-c band; channel 5 in Radio Receiver RS25-4 covers the range 0.19 to 0.51 mc.

The radio transmitter also operates in four crystal-controlled channels (0.02 to 0.08 mc) plus the variable frequency channel 5 (3.0 to 4.5 mc).

Power Units Fisher PS25-3 (6-v dc), PS25-3 (12-v dc), and PS25-3 (110-v ac) supply all the power requirements of the transmitter component plus one, but not both, receiver components. Receiver power unit Fisher PRDC-6 may be used to operate either one of the receiver components from a standard 6-v storage battery.

This equipment can be normally operated into a whip-type antenna 15 to 35 feet long such as Antenna Assembly AS-170/VRC-4. Antenna Coil L35-6, located in the transmitter, is tapped so that it can be adjusted for a satisfactory antenna impedance match.

Power requirements are 252 w, from either a 6- or 12-v storage battery, or 110 v, 60 cyc, 1 phase, ac.

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MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Transmitter TS25-3	16-5/8 x 12-1/2 x 15-7/8	39.0
1	Receiver RS25-3	16-5/8 x 12-1/8 x 15-7/8	34.5
1	Receiver RS25-4	16-5/8 x 12-1/8 x 15-7/8	34.5
1	Power Unit PS25-3 6 v, dc	13-7/8 x 9-13/16 x 10-5/8	32.0
1	Power Unit PS25-3 12 v, dc	13-7/8 x 9-13/16 x 10-5/8	30.0
1	Power Unit PS25-3 110 v, ac	Not Available	Not Available
1	Receiver Power Unit PRDC-6 (6 v, dc)	" "	" "
1	Antenna Assembly AS-170/VRC-4	" "	" "

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Issued on a basis of one each per crash vehicle and/or ambulance, per Air Base.

INSTALLATION: Ground mobile, vehicular. **APPROXIMATE RANGE (IN MILES):** Short to medium.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -9, -21, -25, -26; AN/ARR-15; AN/ART-13; AN/CRT-3, -5; AN/FRC-10; AN/FRR-3, -4, -7, -12, -28, -32; AN/FRT-5, -6, -10, -15, -17, -18, -19; AN/GRC-9, -13, -26; AN/GRR-2, -3, -5; AN/GRT-2; AN/MRC-2, -6, -16, -20, -22; AN/PRC-7; AN/SRC-3; AN/SRR-3, -8, -12, -13; AN/SRT-1, -3, -4; AN/TRQ-1; AN/URR-10, -22, -23; AN/URT-2, -3, -4; AN/VRC-1, -4; AN/VRR-2; BC-191, -312, -314, -329, -339, -342, -344, -348, -365, -401, -447, -610, -779, -794, -1004; MBS; MQ; OA-58/FRC, OA-59/FRC; OA-60A/FRT; OA-60B/FRT; 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; RC-52; RCF; RCG; RCH; RDE; RDM; REA; SCR-177, -188, -193, -244, -274, -281, -399, -499, -506, -536, -543, -585, -593, -704; T-4/FRC, -5/FRC, -83/SR, -158/FRT, -159/FRT, -171/FR, -172/FR, -173/FR, -174/FR, -175/FR, -177/FR, -180/FR; TAB; TAJ; TAQ; TBA; TBC; TBK; TBL; TBM; TBN; TBO; TBU; TBX; TCB; TCC; TCE; TCH; TCK; TCP; TCS; TCY; TCZ; TDD; TDE; TDF; TDH; TDK; TDN; TDO; TEB; TEC; TEF; AR-88 (RCA); Collins 18S-4 (AF Model); Collins 32V-2, 75A-2; Fisher TS 25-3; Hammarlund SP-600-JX; Marconi TH-41-B; National HRO-50; Westinghouse Type MW; Wilcox 96D, 99A.

TECHNICAL CHARACTERISTICS**FREQUENCY RANGE IN MEGACYCLES:**

Transmitter TS25-3: 2 - 8 crystal-controlled; 3 - 4.5, variable frequency oscillator.

Receiver RS25-3: 2 - 8, crystal-controlled; 3 - 4.5, continuous tuning.

Receiver RS25-4: 2 - 8, crystal-controlled; 0.19 - 0.51, continuous tuning.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Voice, cw, tone.

POWER OUTPUT: Transmitter 25 w (maximum).

POWER REQUIREMENTS: 252 w, (42 amp) 6 v, dc;
252 w, (21 amp) 12 v, dc;
252 w, 110 v, 60 cyc, 1 phase, ac.

PHYSICAL CHARACTERISTICS

Radio Set Fisher TS25-3 measures 64 x 47 x 15-7/8 inches, net weight 180.75 pounds, volume 30 cu ft, 0.75 ship ton. Packed for domestic or export shipment: total weight 195 pounds, total volume 33 cu ft, 0.82 ship ton. Shipped in 5 packages both domestic and export.