

TRANSMITTING SET, RADIO

TEG

RELATION TO OTHER EQUIPMENT

The TEG is the same as the TEG-1 except that the TEG is for use on shipboard; and the TEG-1 is for shore use.

EQUIPMENT REQUIRED BUT NOT SUPPLIED

(1 to 4) Remote Control Unit NT No. 23211 (for shipboard installation only), (1) Carbon Microphone RE8944A, (1) Telegraph Key NT No. 26001, (1) Telegraph Key NT No. 26002, (1) Set of Cables for interconnecting various units.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE OF EMISSION: A1 (continuous wave), A2 (Modulated continuous wave), A3 (voice), F3 (frequency shift keying).

TYPE OF FREQUENCY CONTROL: Crystal.

NUMBER OF CHANNELS: 10 channels.

OPERATING FREQUENCY RANGE: 200 to 2000 kc and 2000 to 18,100 kc.

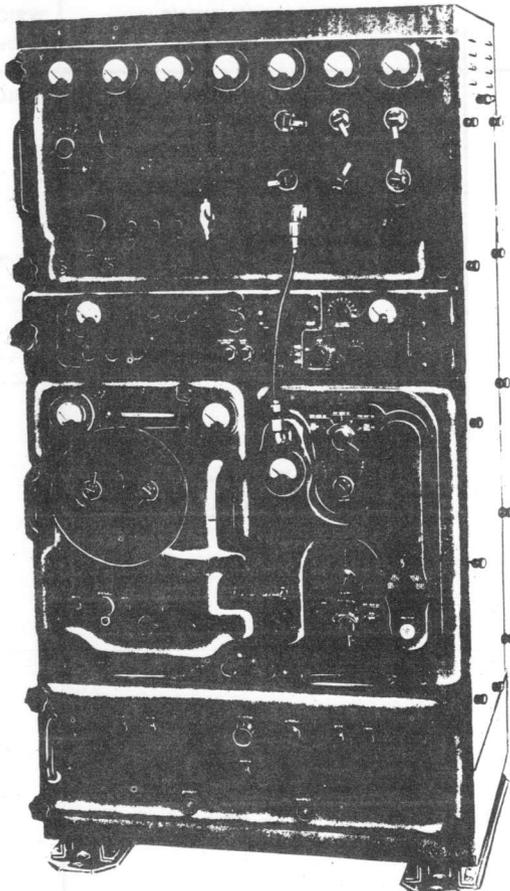
OPERATING POWER RQMT: 110 v AC, 60 cps, single ph; 220 v AC, 60 cps, single ph.

MANUFACTURER'S OR CONTRACTOR'S DATA

Radio Corporation of America, RCA Victor Division, Camden, New Jersey.
Contract NXsr-87797, dated 12 March 1945.

TUBE AND/OR CRYSTAL COMPLEMENT

(1) 6J5	(2) 6L6
(4) 6AC7W	(4) 6AG7
(2) 6AS7G	(2) 6SA7
(4) 6SJ7	(6) 6SK7
(6) 6SL7W	(21) 6SN7W
(2) 2E22	(4) 4E27
(4) 3B28	(8) 6X5GT/G



Transmitting Set, Radio TEG

FUNCTIONAL DESCRIPTION

The TEG is designed for either local or (in conjunction with associated units) for remote control operation, either on shore or on naval vessels, under widely varying climatic conditions. This equipment effects communication with precision and reliability, without the necessity of preliminary calling. Frequency stability minimizes interference with other units of a naval duplex communication system, in the frequency range of 200 to 2000 kilocycles and 2000 to 18,100 kilocycles. (kc).

No field changes in effect at time of preparation (21 March 1960).

Radio-transmitters

UNCLASSIFIED

June 1961

TEG

TRANSMITTING SET, RADIO

(4) OA3/VR75 (1) 807

Total Tubes: (75)

Crystal data not available.

TYPE CLASSIFICATION (NAVY)
DESIGN COGNIZANCE NAVY BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.
R.D.B. IDENT. NO.

REFERENCE DATA AND LITERATURE

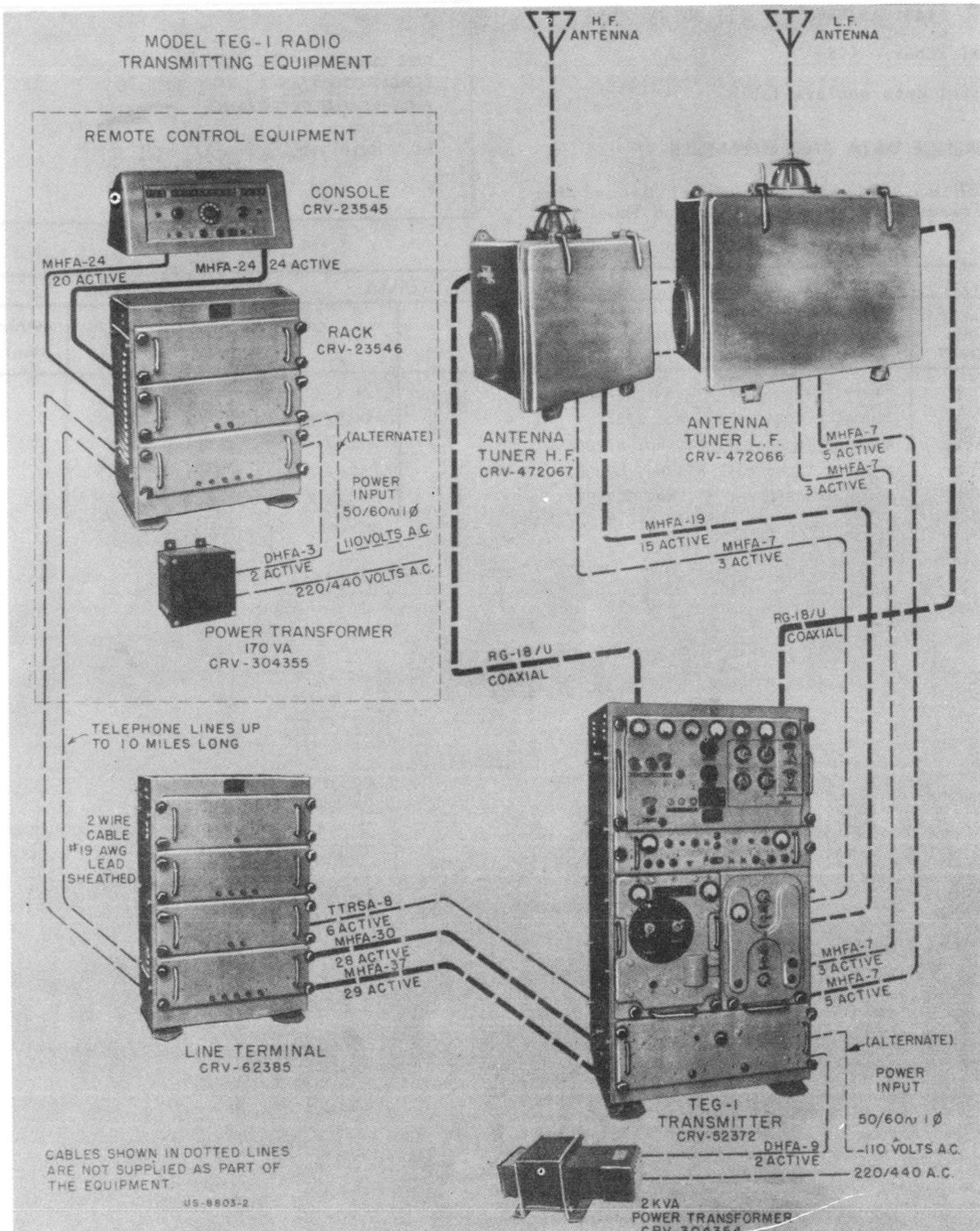
NAVSHIPS 900,958: Technical Manual for
Transmitting Equipment TEG and TEG-1.

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Radio Transmitter NT. No. 52372	24 X 30 X 57-3/8	
1	Selector Control NT. No. 23547	9-15/16 X 10-1/16 X 12-7/8	
1	Antenna Tuner L.F. NT. No. 472066	19-5/16 X 30-1/4 X 31-1/2	
1	Antenna Tuner H.F. NT. No. 472067	19-5/16 X 23-3/4 X 30-1/4	
1	Power Transformer NT. No. 304354	3-1/8 X 3-19/32 X 4-5/32	

RADIO COMMUNICATION TRANSMITTING EQUIPMENT

TEG-1



Radio Communication Transmitting Equipment TEG-1

June 1957

Radio-Transmitters

TEG-1

RADIO COMMUNICATION TRANSMITTING EQUIPMENT

FUNCTIONAL DESCRIPTION

The TEG-1 is a highly flexible radio transmitter for shore installation, with provision for local and remote operation.

At the transmitter, the control panel permits the choice of ten preset channel frequencies and one manual-controlled frequency between 200 to 18100 kc, 5 types of carrier emission with three power levels up to a maximum output of 100 W. A motor-driven frequency selector and relay switching system permits a complete transfer from one operation condition to another in less than 25 sec.

Data on this sheet reflects the following field changes, FC-1 (5 December 1956).

RELATION TO OTHER EQUIPMENT

Equipment Required but not supplied: (*) Carbon, Microphone, (*) Handset, (*) Telegraph Key NT-26001, (*) Telegraph Key NT-26012, (1) Set Interconnecting Cables. (*) Quantity as required.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

FREQUENCY RANGE: 200 to 2000 kc and 2000 to 18100 kc.

PRESET FREQUENCY

200 to 2000 KC: 1.

2000 to 18100 KC: 9 preset and 1 manual.

TYPE CONTROL: Crystal.

TYPE EMISSION: A1, A2, A3, F.

CARRIER OUTPUT

A1: 100 W.

A2 and A3: 80 W.

POWER FACTOR: Not less than 90%.

POWER SUPPLY: 115 v, 50 to 60 cps, single ph.

POWER INPUT: 1.6 kw max, key locked position.

HEAT DISSIPATION: 1475 W.

MANUFACTURER'S OR CONTRACTOR'S DATA

Radio Corporation of America Div RCA
Victor, Camden, N.J.

Contract NObsr 39339, dated 25 June 1947.

Approximate Cost: \$44500.00 with equipment spares.

TUBE AND/OR CRYSTAL COMPLEMENT

(2) 2E22	(4) 3B28
(4) 4E27	(4) 6AC7W
(4) 6AG7W	(2) 6AS7W
(2) 6L6GA	(1) 6J5
(2) 6SA7	(2) 6SJ7
(8) 6SK7	(7) 6SL7W
(20) 6SN7W	(8) 6X5GT/G
(1) 807	(4) OA3/VR75

Total Tubes: (75)

(3) 1N34

Total Crystals: (3)

REFERENCE DATA AND LITERATURE

NAVSHIPS 91167.1: Technical Manual for radio Transmitting Equipment TEG-1.

TYPE CLASSIFICATION DESIGN COGNIZANCE BUSHIPS PROCUREMENT COGNIZANCE STOCK NO.

SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Radio Transmitter 52372	72.5	39 x 46 x 72	1510
1	Antenna Tuner L.F. 472066	25.6	27 x 41 x 42	337
1	Antenna Tuner H.F. 472067	22.5	28 x 35 x 40	332
1	Line Terminal 62385	32.5	28 x 40 x 52	470

RADIO COMMUNICATION TRANSMITTING EQUIPMENT

TEG-1

SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Transmitter Control 23546	28	27 x 40 x 45	368
1	Transmitter Control 23545	4.4	16 x 17 x 28	69
1	Power Transformer 304354	3.7	13 x 18 x 24	148
1	Power Transformer 304355	1.8	13 x 14 x 17	45
1	Equipment Spares	7	18 x 23 x 29	244
1	Equipment Spares	7	18 x 23 x 29	233
1	Equipment Spares	7	18 x 23 x 29	217
1	Equipment Spares	7	18 x 23 x 29	182
1	Equipment Spares	7	18 x 23 x 29	180

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Radio Transmitter 52372	24 x 30 x 57-3/8	1190
1	Antenna Tuner L.F. 472 066	19-3/8 x 30-7/8 x 32	232
1	Antenna Tuner H.F. 472 067	19-3/8 x 24-1/4 x 30-7/8	220
1	Line Terminal 62385	17 x 24-3/8 x 37-1/2	265
1	Transmitter Control 63546	17 x 24-3/8 x 30	195
1	Transmitter Control 23545	11-1/4 x 12 x 23	53
*	Power Transformer 304354	7-3/8 x 10-1/8 x 17-3/8	110
*	Power Transformer 304355	8-3/4 x 10-1/4 x 10-3/4	35
1	Cable for Remote Control		

* Used when power supply is 220 or 440 v AC.