RADIO SET

AN/MRC-62

FUNCTIONAL DESCRIPTION

The AN/MRC-62 is designed to provide terminal facility for receiving and transmitting multi-channel voice, telegraph, teletype, and/or facsimile when used with appropriate terminal apparatus. Single channel, push-totalk facilities are provided also.

No field changes in effect at time of preparation (10 April 1961).

RELATIONS TO OTHER EQUIPMENT

The AN/MRC-62 is similar to Radio Terminal Set AN/GRC-39 except for mounting and components.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE OF INSTALLATION: Mobile, truck-mounted. OPERATING FREQUENCY RANGE: 54 to 74.9 mc. NUMBER OF CHANNELS: Single channel. TYPE OF FACILITY PROVIDED: Push-to-talk.

INTELLIGENCE BAND WIDTH: 0.3 to 20 kc. OPERATING POWER ROMT: 120 v ac, 60 cps, single phase.

TUBE AND/OR CRYSTAL COMPLEMENT

Electron Tube, Crystal and/or Semi-Conductor Device data not available.

REFERENCE DATA AND LITERATURE

NAVSHIPS 93400: Preliminary Data Form for Radio Set AN/MRC-62.

TYPE CLASSIFICATION (NAVY) DESIGN COGNIZANCE TASSA PROCUREMENT COGNIZANCE STOCK NO.

VIITALUS	EQUIPMENT SUPPLIED D	PATA	EQTHISAL.
PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT
1 1 2 2 4 1 2 2 4 1 2 4 1 1 2 4 1 1	Radio Set AN/MRC-62 consists of: Antenna Group OA-249/GRC-1 Case, Accessories CY-1097/GRC-10 Control Radio Set C-632/GRC-10 Converter, Telegraph-Telephone Signal TA-182 Dummy Load, Electrical DA-73/U Dynamotor-Power Supply DY-94/GRC-10 Generator Set, Gasoline Engine, Trailer Mounted PU-357/MRC Handset H-33E/PT Loudspeaker, Permanent Magnet LS-166/U Mounting MT-791/U Multimeter TS-352B/U Rack, Electrical Equipment MT-700/GRC Receiver, Radio T-235/GRC-10 Shelter, Electrical Equipment S-110/U Terminal, Telephone AN/RCC-3 Truck, Cargo M-37	4-1/8 × 8-3/32 × 14-21/32	(lbs.)

		RADIO SE	T AN/MRC-63
8 January 1962	FSN: analamami	PROPERTY Functional Class:	NUTLE YOU
Cog Service:	(Pakawi)	USN USAF	
	USA		

TYPE CLASS:

MANUFACTURER'S NAME/CODE NUMBER:

(No Illustration Available)

FUNCTIONAL DESCRIPTION:

The AN/MRC-63 is designed as a mobile, truck and trailer-mounted installation with continuous multiplexing method of operation that is not rated for over-all gain in db. The set provides a relay facility for receiving and transmitting multi-channel voice, telegraph, teletype and/or facsimile. Single channel push-to-talk facilities also are provided.

No field changes in effect at time of preparation (10 April 1961).

TECHNICAL CHARACTERISTICS:

TYPE OF INSTALLATION: Mobile, truck & trailer mounted.

METHOD OF OPERATION: Continuous multiplexing.

TYPE OF FACILITY PROVIDED: Push-to-talk.

TYPE OF EMISSION: F3 & F9 types.

NUMBER OF BANDS: 1 band.

NUMBER OF CHANNELS: 1 channel.

OPERATING FREQUENCY RANGE: 54 to 70.9 mc.

INTELLIGENCE BANDWIDTH: 0.3 to 20 kc.

OPERATING POWER RQMT: 120 v ac, 60 cps, single ph.

RELATION TO OTHER EQUIPMENT:

The AN/MRC-63 is similar to Radio Repeater AN/GRC-40 except for mounting and components.

EQUIPMENT REQUIRED BUT NOT SUPPLIED: None.

MAJOR COMPONENTS

	MAJOR COMPONENTS			
QTY S	CONTRACT DR MATER ORDER NO. UNIT	STOCK NUMBERS	DIMENSIONS (INCHES)	(LBS)
1 2 3 3 1 3	Radio Set AN/MRC-63 consists of: Antenna Group 0A-249/GRC-10 Case, Accessories CY-1097/GRC-10 Control, Radio Set C-632/GRC-10 Dummy Load, Electrical DA-73/U Dynamotor-Power Supply DY-94/GRC-10 Generator Set, Gasoline Engine, Trailer Mounted PU-357/MRC		4-1/8 × 8-3/32 × 14-21/32 3-1/4 × 13 × 17 1-3/8 dia × 3-1/2 9 × 11-1/4 × 13	

QTY	ITEM		1.48.7
VII	STOCK NUMBERS	DIMENSIONS	WEIG
	Adda. Hall	(INCHES)	(LBS
3	Handset H-33E/PT		
2	Loudspeaker, Permanent Magnet LS-166/U	3 x 5 x 7	
1	Multimeter TS-352B/U	6-1/4 × 8-1/2 × 11-1/2	
3	Rack, Electrical Equipment MT-700/GRC	4-7/8 × 12-1/4 × 33-1/4	
3	Receiver Radio R-125/GRC-10	9 × 11-1/4 × 13	
1	Shelter, Electrical Equipment S-110/U	55-1/4 × 75-1/2 × 77-1/	4
3	Transmitter Radio T-235/GRC-10 Truck, Cargo M-37	9 × 11-1/4 × 13	
MAVSHIPS	CE DATA AND LITERATURE: S 93400: Preliminary Data Form for Radio Set AN/	MRC-63.	
AVSHIPS		MRC-63.	SAMO LASINGO
UBE, CF	S 93400: Preliminary Data Form for Radio Set AN/	MRC-63.	•AP3 1631KR3
UBE, CF	S 93400: Preliminary Data Form for Radio Set AN/	MRC-63.	**************************************
TUBE, CAUBES:	S 93400: Preliminary Data Form for Radio Set AN/ RYSTAL AND/OR SEMI-CONDUCTOR DATA: Data not available.	MRC-63.	APA BASIKAS
TUBE, CAUBES:	RYSTAL AND/OR SEMI-CONDUCTOR DATA: Data not available. Ductors: Data not available.	MRC-63.	OARA JAJIRRA
TUBE, CAUUBES:	S 93400: Preliminary Data Form for Radio Set AN/ RYSTAL AND/OR SEMI-CONDUCTOR DATA: Data not available. : Data not available.	MRC-63.	
TUBE, CF UBES: RYSTALS	RYSTAL AND/OR SEMI-CONDUCTOR DATA: Data not available. Ductors: Data not available.		WEIGHT (LBS)
TUBE, CAUUBES:	RYSTAL AND/OR SEMI-CONDUCTOR DATA: Data not available. Ductors: Data not available. SHIPPING DATA		WEIGHT (LBS)

CONTRACT OR

ORDER NO.

APPROX.

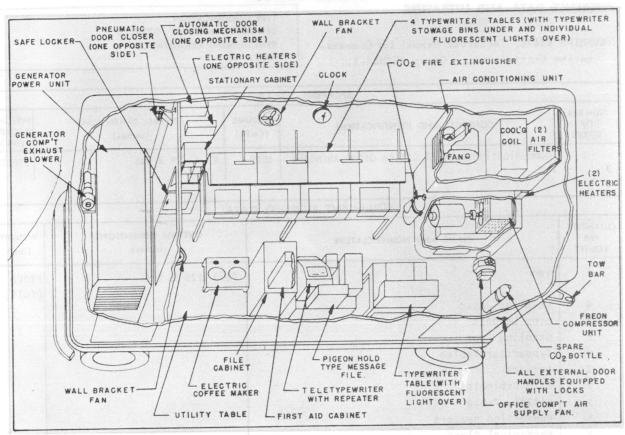
UNIT COST

LOCATION

CONTRACTOR

COMMUNICATION CENTRAL OFFICE GROUP

AN/MSA-1



Communication Central Office Group AN/MSA-1

FUNCTIONAL DESCRIPTION

The AN/MSA-1 is a fully equipped van which provides facilities for performing cryptographic functions in a mobile communications center, such as Communications Central AN/MSC-3. It includes built-in furniture, lighting, heating, air conditioning, and power generating equipment. Terminals are installed for two teletype and six telephone circuits and it is equipped with a CO-2 fire protection system.

The power system is designed to furnish an independent source of power for air conditioning, lighting, and miscellaneous office use. Provision is also made for receiving power from an external source or furnishing power to an external load.

No field changes in effect at time of preparation (10 October 1957).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TELETYPEWRITER: Automatic reception from line circuits of associated units of communications central.

POWER OUTPUT: 120 v, 60 cps, single ph, 10 KW from power unit PE-95-G which is used when external power source is not available. This output can also be used to supply external loads.

EXTERNAL POWER SOURCE REQUIRED: 120 v, 60 cps, 3-ph 10 KW.

MANUFACTURER'S OR CONTRACTOR'S DATA

Boston Naval Shipboard, Boston, Mass. Project Orders 44704, 45707, 80701.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes.

Radio-Communication Terminal Equipment

AN/MSA-1

COMMUNICATION CENTRAL OFFICE GROUP

April 1958

REFERENCE DATA AND LITERATURE

NAVSHIPS 91498, Technical Manual for Communication Central Office Group AN/MSA-1.

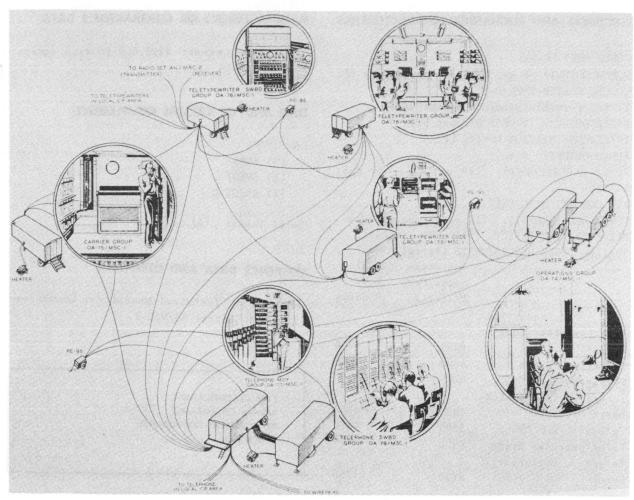
TYPE CLASSIFICATION
DESIGN COGNIZANCE BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.

SHIPPING DATA				
OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Communication Central Office Group AN/MSA-1	1500	95 X 129 X 245	17000

	EQUIPMENT SUPPLIE	D DATA	
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Van	95 X 129 X 245	17000 (full)
4	Leveling Jacks		('''''
2	Step Ladders		1
6	Gasoline Cans		
3	Typewriter Tables		
2	Lockers		
2	File Cabinets		
1	Utility Table		
4	Convection Heaters	3	
1	Mechanical Clock		1 - 1 1
2	Fans	The second secon	
1	Coffee Maker		
1	Teletypewriter Model 19	23-1/2 X 34-3/8 X 41-5/8	
1	First Aid Cabinet	2) 1/2 ×)4)/6 × 41-5/6	+
5	Typewriters	0.087 487 6.08.00	1477001111
6	Folding Chairs		S. P. Sandara
2	Handset	THE RESERVE STREET, NO. 18 P. LEWIS CO., LANSING	d.
1	Power Unit PE-95-G	28-1/4 X 38-1/2 X 67-1/2	1556

COMMUNICATIONS CENTRAL

AN/MSC-1



Communications Central AN/MSC-1

FUNCTIONAL DESCRIPTION

The AN/MSC-1 is an assembly of standard military communication equipments installed in eight principal operating trailers and three shelters, to provide facilities normally required for initial installation at an Army or a similarly sized headquarters. It provides terminating, switching, and testing facilities for approximately 360 common battery telephone lines, 24 universal trunk circuits, 60 direct-current teletypewriter loops, and 6 spiral-four carrier systems. It also includes teletypewriter and cryptographic

facilities for message center use, operating space for the signal officer and his staff, and radioteletype facilities which may be operated independently or connected directly into the teletypewriter switching central.

No field changes in effect at time of preparation (26 December 1956).

RELATION TO OTHER EQUIPMENT

Equipment Required but not Supplied: (6) Cryptographic Device, (2) Radio Set AN/MRC-2,

(3) Trailer K-52 with Power Unit PE-95.

AN/MSC-1

COMMUNICATIONS CENTRAL

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER UNIT PE-95.

POWER OUTPUT: 5 kw, 115 v, 60 cps, single ph.

GROUND HEATER TYPE D-1.

TYPE: Portable gasoline driven unit.

RATED OUTPUT: 100000 BTU per hr.

INTERPHONE STATION LS-147/FI.

AUDIO OUTPUT: 2 w.

POWER REQUIREMENTS: 110 to 120 v, 60 cps,

28 w max.

Group

AIR-CONDITIONING UNIT

POWER REQUIREMENTS: 110 v, 60 cps, 1320 w.

REFRIGERATING EFFECT: 9300 BTU per hr.

TRAILER POWER REQUIREMENTS (Watts)

Full Instanta-Load neous Peak Running Starting

Teletypewriter Code 4750 6200 Group 3500 6400 Operations Group 3700 5150 Carrier Group Teletypewriter Switch-4350 5800 board Group 4050 5500 Telephone MDF Group 5450 6900 Teletypewriter Group Telephone Switchboard 1750 3200

MANUFACTURER'S OR CONTRACTOR'S DATA

Approximate Cost: \$225,000.00 with equipment spares.

TUBE AND/OR CRYSTAL COMPLEMENT

LS-147/FI

- (2) 6SF5
- (1) 6V6GT
- (1) 6X5GT/G

Total Tubes: (4)

REFERENCE DATA AND LITERATURE

TM11-5505: Technical Manual for Communications Central AN/MSC-1.

TYPE CLASSIFICATION DESIGN COGNIZANCE TASSA PROCUREMENT COGNIZANCE STOCK NO.

	EQUIPMENT SUPPLIED DATA			
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (Ibs.)	
1	Teletypewriter code Group OA-73/MSC-1 consisting of:		AT	
	(1) Trailer K-35 Modified			
I IV X IV ISS	(3) Teletypewriter TG-7-B, less Chests CH-50-B and		100	
6.1	CH-62-B		20.17	
	(1) Teletypewriter TT-7/FG, less Transmitter Distri-		ly re	
	butor and Table		- mm/i	
	(5) Reperforator Transmitter TG-26-A, less		a renta	
	Carrying Chest and Jack Box		1,000	
	(2) Telegraph Repeater-Mixer AN/FGQ-1, less		1995	
	Cabinet		0.0(1.7.0	
	(2) Transmitter-Distributor TT-21/FG		educi	

Radio-Communication Terminal Equipment COMMUNICATIONS CENTRAL AN/MSC-1

	EQUIPMENT SUPPLIED DATA			
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGH (lbs.)	
	(2) Switchboard SB-6/GG	J-X3 a magaiat (1 Å		
	(2) Rectifier KS-5988	1 awn charbodal (2)	1	
	(1) Rectifier REC-30	read that year is an in-		
	(1) Typewriter MC-88	ragin or matura draft (
	(2) Time Stamp MC-181-A	A DEAL MILESTER A LOST TO M.		
	(2) Clock, 8-Day, Seth Thomas, Mechanical	I promi primario di degrin fa je		
	(1) Telephone TP-6	100	1	
	(1) Interphone Station LS-147/FI	On the second tark		
	(2) Cable, Tandem, for SIGABA	ero e ant en remain triff	1	
	(1) Air-Conditioning Unit, Carrier Type	a serio com Highe vari		
	51B-2 Modified			
	(4) Ground Rod MX-148/G	Au anathrone central 19		
	(2) Fire Extinguisher, 4 LB, CO2	Joseph Janes Brand Delay	1	
	(4) Decontaminating Apparatus M-2			
	(1) Chair, Typist	Assistant and second		
	(5) Stool, Drafting			
	(1) Axe, 41b, Single Blade		ļ	
	(1) Hammer, Sledge, 8 Lb		1	
	(1) Pioneer Tool Kit with Shovel, Axe, and Mattock			
	(1) Padlock	- 0000		
2	Operations Group OA-74/MSC-1 consisting of:			
-	(1) Trailer K-35 Modified			
	(1) Type writer MC-88		1	
	(3) Telephone TP-6		1	
	(1) Interphone Station LS-147/FI		1	
	(1) Clock-8-Day, Seth Thomas, Mechanical			
	(1) Air-Conditioning Unit, Carrier Type 51B-2			
	Modified			
	(2) Fire Extinguisher, 4 Lb, CO2		1	
	(4) Decontaminating Apparatus M-2		1	
	(4) Chair, Typist	What is the second of the seco		
	(1) Stool, Drafting	1	1	
	(2) File Cabinet, 4-Drawer, Legal Size			
	(1) Axe, 4 LB, Single Blade		Ì	
	(1) Pioneer Tool Kit with Shovel, Axe, and Mattoc	k l	1	
	(1) Padlock		1	
	(1) Canvas Cover for Passageway*	A Commence of the Commence of		
	(1) Platform for Passageway*	about the view of the latest	1	
	(3) Telescoping Rod for Passageway*		1	
1	Carrier Group 0A-75/MSC-1 consisting of:			
1	(1) Trailer, 4-10 ton, General Cargo Modified			
	(6) Telephone Terminal CF-1-B, less Front Cover			
	(3) Telephone Terminal CF-2-B, less Front Cover			
	(12) Ringing Equipment EE-101-A, less cover	· ·	1	

AN/MSC-1

COMMUNICATIONS CENTRAL

	EQUIPMENT SUPPLIED D	TATA T	
PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGH (lbs.)
	(1) Telephone EE-8	1 2 - P - 17 - 11 - 11 - 1	and the same of th
	(1) Telephone TP-6	e la carrier in a	
	(1) Interphone Station LS-147/FI	74 178 (145, 3 41)	
	(1) Test Equipment IE-53		
	(1) Tool Equipment TE-123		
	(1) Air-Conditioning Unit, Carrier Type 51B-2 Modified	1111	
	(6) Ground Rod MX-148/G		
	(1) Junction Box JB-110		
	(2) Cable Stub CC-356		
	(1) Clock, 8-Day, Seth Thomas, Mechanical		
	(2) Fire Extinguisher, 4 LB, CO2		
	(4) Decontaminating Apparatus M-2		
	(2) Chair, Folding	2777	1
	(1) Axe, 4 LB, Single Blade	V 10 10 10 10 10 10 10 10 10 10 10 10 10	
	(1) Hammer, Sledge, 8 LB		
	(1) Broom		
	(1) Pioneer Tool Kit with Shovel, Axe, and		
	Mattock		
	(1) Padlock		
	Teletypewriter Switchboard Group 0A-76/MSC-1		
	consisting of:		
	(1) Trailer, QM Clothing Repair Modified		
	(6) Switchboard BD-100 Modified, less Table and Front Cover		
	(2) Teletypewriter TG-7-B, less Chests Gh-50-E Ch-50-B and Ch-62-B		
	(3) Rectifier RA-43-B, less Case CS-82-B		
	(2) Telephone EE-8		
	(1) Telephone TP-6		
	(1) Interphone Station LS-147/FI		CONTRACTOR OF THE PERSON OF TH
	(1) Chest CH-70		
	(3) Chair M-205		
	(2) Board, File, Clip		
	(1) Air-Conditioning Unit, Carrier Type 51B-2		
	Modified		
	(6) Ground Rod MX-148/G		
	(1) Clock, 8-Day, Seth Thomas, Mechanical		
	(2) Fire Extinguisher, 4 Lb, CO2		
	(4) Decontaminating Apparatus M-2		
	(1) Axe, 4 LB, Single Blade		
	(1) Hammer, Sledge, 8 LB		
	(1) Pioneer Tool Kit with Shovel, Axe, and		
7	Mattock		

COMMUNICATIONS CENTRAL

AN/MSC-1

EQUIPMENT SUPPLIED DATA			
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGI (Ibs.
	(1) Padlock	guteraqqA enidamimiain. 30 (4)	
1	Telephone MDF Group 0A-77/MSC-1 consisting of:	plantaka bog basura (a)	
_	(1) Trailer, QM Clothing Repair Modified	(2) Cubig Assembly has 162/3 (1)	1
	(7) Frame FM-19, less Case CS-59	(1) ave, a lo, single Blaim	
	(1) Testboard BD-101	(1) Planeer Tool Vit with inmist	
	(1) Panel BD-90, less Case CS-60	(1) Paglock	
	(1) Rectifier RA-91	Telephone Switzmuornd Brown dA	
	(1) BaHery BB-46	to polition of:	
	(1) Tool Equipment TE-44	[13] Trailer, UN Cichic Repair	1
	(1) Telephone TP-6	(6) Switchboard surdice less on	
	(2) Telephone EE-8	(2) Cabinet Bir72	
	(1) Interphone Station LS-147/FI	(42) Qnéal laor To-:	
	(1) Air-Conditioning Unit, Carrier Type	(Kacil Jakhasa (SI))	
	51B-2 Modified	a=47 enonin(eT (I))	1
	(1) Cabinet BE-75	(11) Interpreted States on Userany	
	(1) Rack FM-30	eran julia u z sirimaci na lizii	
	(2) Chair M-205	SIE-, Modiff .	
	(1) Clock, 8-Day, Seth Thomas, Mechanical	notice grant (r)	
	(2) Fire Extinguisher, 4 LB, CO2	La proper in the control of the cont	
	(4) Decontaminating Apparatus M-2	too a superivental ball of	
	(1) Axe, 4 LB, Single Blade	- sarva, p. ani ika kasta 2596 (2)	
	(1) Pioneer Tool Kit with Shovel, Axe, and	where the man to the total	
	Mattock Handiday Handiday Handiday	News and a self teat teat of	
	(1) Padlock	857 eq. (3)	
	(4) Ground Rod MX-148/G	Straum death or the teat	
	(1) Hammer, Sledge, 8 LB	A R as I mostant us a serion	
	Teletypewriter Group OA-78/MSC-1 consisting of:	681-40 0400	
1	(1) Trailer, QM Clothing Repair Modified	Traller resk with me officer be	
	(5) Teletypewriter TG-7-B, less Chest CH-50-5	the term of a page to real	
	(5) Reperforator Transmitter TG-26-A, less	ature to for all behavior!	
	Carrying Chest		
	(2) Reperforator Transmitter TG-26-A, less		1
	Carrying Chest and Jack Box		
	(6) Rectifier RA—87, less Carrying Chest		1
	(1) Typewriter MC-88		
	(1) Time Stamp MC-181-A		1
	(1) Telephone TP-6		
	(1) Interphone Station LS-147/FI		
	(1) Air-Conditioning Unit, Carrier Type		
	51B-2 Modified		
	(1) Tool Equipment TE-50		
	(6) Chair M-205	1	
	(1) Clock, 8-Day, Seth Thomas, Mechanical (2) Fire Extinguisher, 4 LB, CO2	1	1

AN/MSC-1

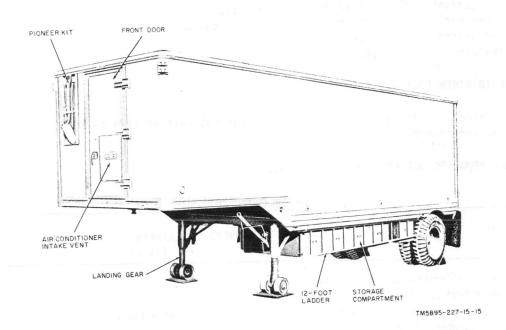
COMMUNICATIONS CENTRAL

EQUIPMENT SUPPLIED DATA			
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
	(4) Decontaiminating Apparatus M-2		
	(6) Ground Rod MX-148/G		
	(2) Cable Assembly CX-162/G (100 ft lg)		
	(1) Axe, # 1b, single Blade		1
	(1) Pioneer Tool Kit with Shovel, Axe and Mattock		1
	(1) Padlock		
1	Telephone Switchboard Group OA-79/MSC-1		
	consisting of:		
	(1) Trailer, QM Clothing Repair Modified		
	(6) Switchboard BD-110, less Front and Top Covers		1
	(2) Cabinet BE-72		
	(12) Chest Set TD-1		1
	(12) Headset HS-30		1
	(1) Telephone TP-6		1
	(1) Interphone Station LS-147/F1		
	(1) Air-Conditioning Unit, Carrier Type		
	51B-2 Modified		
	(7) Chair M-205		1
	(1) Clock, 8-Day, Seth Thomas, Mechanical		l
	(2) Fire Extinguisher, 4 1b CO2		1
	(4) Decontaminating Apparatus M—2		
	(1) Axe, 4 LB, Single Blade		
	(1) Pioneer Tool Kit with Shovel, Axe, and Mattock		
	(1) Padlock		
	Ground Heater, Type D-1		
	Truck, 4 X 4, Tractor, 4 to 5 Ton		
	Cord CP-333		
	Trailer K-52, with Power Unit PE-95	a 1	
	Maintenance Equipment ME-4	1.4	
	*Included in only 1 of 2 trailers.		

OPERATIONS CENTER, COMMUNICATIONS AN/MSC-25 29 August 1962 Functional Class: FSN: Cog Service: USAF USN USA

TYPE CLASS:

MANUFACTURER'S NAME/CODE NUMBER: U.S. Army Signal Material Support Agency.



Operations Center, Communications AN/MSC-25

FUNCTIONAL DESCRIPTION:

The Operations Center, Communications AN/MSC-25 is a tactical communications operations and message center van; it is air transportable. The AN/MSC-25 contains telephone switchboard, teletypewriter, and local telephone circuits, and display board facilities required by the signal operations officer to plan, engineer, and control area-type communications systems.

No field changes in effect at time of preparation (27 July 1961).

TECHNICAL CHARACTERISTICS:

VOLTAGE ROMT: 115 v ac, 60 cps, single ph.

POWER CONSUMPTION

SEMITRAILER, VAN ELECTRONIC EQUIPMENT V-189/MSC-25: 3 wire.

LIGHTS: 1040 watts.

AN/MSC-25 OPERATIONS CENTER, COMMUNICATIONS

EXHAUST BLOWER: 150 watts.

ELECTRIC HEATERS: 6000 watts.

AIR CONDITIONER: 3000 watts.

INTERCOMMUNICATION STATION LS-147()F1: 32 watts.

MAJOR COMPONENTS

TELETYPEWRITER TT-4()/TG: 160 watts.

TERMINAL, TELEGRAPH TH-5/TG: 120 watts.

REPERFORATOR-TRANSMITTER TELETYPEWRITER: 150 watts.

COMMUNICATION FACILITIES

LOCAL TELEPHONE CIRCUIT TA-312/PT: 7 circuits.

INTERCOMMUNICATION CIRCUIT LS-147()/F1: 1 circuit.

TELETYPEWRITER: 2 circuits.
SWITCHBOARD: 12 circuits.

RELATION TO OTHER EQUIPMENT:

The AN/MSC-25 is designed to be used with, but not part of AN/MSC-26(); AN/MTC-5(), AN/MCC-10, and AN/MCC-11.

EQUIPMENT REQUIRED BUT NOT SUPPLIED: None.

MAJOR COMPONENTS

QTY	ITEM	STOCK NUMBERS	DIMENSIONS WEIGHT (INCHES) (LBS)
1	Operations Center, Communications AN/MSC-25 consists of:		13,000
1	Semitrailer, Van Electronic Equipment V-189/MSC-2		96 x 139 x 318
1	Switchboard, Telephone, Manual SB-22()/PT consists of:		5 x 12 x 16
1 1 1 2 7	Accessory Kit MX-230/PT Accessory Kit MX-230A/PT or Accessory Kit MX-2915/PT Terminal, Telegraph TH-5/TG Telephone Set TA-312/PT		5 x 6 x 10 5 x 6 x 10 5-1/8 x 6 x 10
1	Teletypewriter TT-4()/TG Reperforator-Transmitter, Tele- typewriter TT-76()/GGC		11-1/4 × 18-7/8 × 22-1/2 14 × 18 × 21

REFERENCE DATA AND LITERATURE:

TM11-5895-227-15: Technical Manual for Operations Center, Communications AN/MSC-25.

TUBE, CRYSTAL AND/OR SEMI-CONDUCTOR DATA:

TUBES: Data not available.

OPERATIONS CENTER, COMMUNICATIONS AN/MSC-25

CRYSTALS: Data not available.

SEMI-CONDUCTORS: Data not available.

SHIPPING DATA

VOLUME (CU FT)

PKGS

WEIGHT (LBS)

PROCUREMENT DATA

PROCURING SERVICE:

SPEC &/OR DWG:

DESIGN COG: TASSA

CONTRACTOR LOCATION

ORDER NO.

APPROX. UNIT COST

U.S. Army Signal Material Support Agency

Fort Monmouth, New Jersey

1.5 AN/MSC-25: 3

30 August 1962 Cog Service:

FSN:

USA

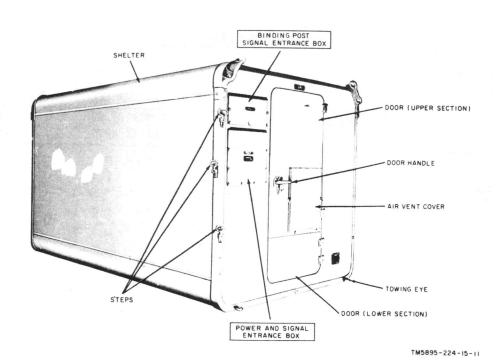
OPERATIONS CENTRAL AN/MSC-32 Functional Class:

USN

USAF

TYPE CLASS:

MANUFACTURER'S NAME/CODE NUMBER: Army Signal Materiel Support Agency.



Operations Central AN/MSC-32

FUNCTIONAL DESCRIPTION:

The Operations Central AN/MSC-32 is an air/or vehicular transportable field communications operation office. It contains telephone switchboard, teletypewriter, and local telephone circuits. Display board facilities required by the signal operations officer to plan, engineer, and control an area-type communication system are provided.

No field changes in effect at time of preparation (28 July 1961).

TECHNICAL CHARACTERISTICS:

OPERATING POWER ROMT: 115 v ac, 60 cps, 1 ph, 3 wire.

POWER CONSUMPTION (MAX)

LIGHTS: 310 W.

EXHAUST BLOWERS: 300 W. ELECTRIC HEATERS: 3,000 W.

AN/MSC-32 OPERATIONS CENTRAL

EQUIPMENT

TERMINAL, TELEGRAPH TH-5/TG(3): 180 W.

TELETYPEWRITER TT-4A/TG(2): 320 W.

REPERFORATOR-TRANSMITTER, TELETYPEWRITER TT-76/GGC: 150 W.

INTERCOMMUNICATION STATION LS-147/FI: 32 W.

COMMUNICATION FACILITIES

TELEPHONE TA-312/PT: 4 circuits.

SWITCHBOARD SB-22/PT: 12 circuits.

INTERCOMMUNICATION LS-147/FI: 1 circuit.

TELETYPEWRITER TT-4A/TG & TT-76/GGC: 3 circuits.

RELATION TO OTHER EQUIPMENT:

The AN/MSC-32 is designed to be used with, but not part of AN/MSC-31. (In combination these are items used with SB-675()/MSC, SB-611()/MRC and AN/MTC-1()).

EQUIPMENT REQUIRED BUT NOT SUPPLIED: None.

MAJUK	COMPONENTS	

QTY	ITEM OM SECSO	STOCK NUMBERS	DIMENSIONS (INCHES)	WEIGHT (LBS)
1	Operations Central AN/MSC-32			
1	consists of: Shelter, Electrical Equipment		80-9/16 x 81-3/16 x 138-9/16	
2	S-141/G Teletypewriter TT-4A/TG		11-1/4 × 18-7/8 × 22-1/2	
1	Reperforator-Transmitter, Teletypewriter TT-76/GGC			
1	Switchboard, Telephone, Manual SB-22/PT		5 x 12 x 16	
2	Terminal, Telegraph TH-5/TG			
1	Interphone Station LS-147/FI		7 x 7 x 15	
3	Telephone Set TA-312/PT		2 4/2 2 4/2 6 1/9	
1	Multimeter TS-297/U		$3-1/4 \times 3-1/4 \times 6-1/8$	
1	Display Board			
1	Binding Post Panel			
2	Ground Strap Ground Rod MX-148/G		1-1/4 × 2-3/4 × 72	

REFERENCE DATA AND LITERATURE:

TM11-5895-224-15: Technical Manual for Operations Central AN/MSC-32.

OPERATIONS CENTRAL AN/MSC-32

TUBE, CRYSTAL AND/OR SEMI-CONDUCTOR DATA:

TUBES: Data not available.

CRYSTALS: Data not available.

SEMI-CONDUCTORS: Data not available.

SHIPPING DATA

PKGS

VOLUME (CU FT)

WEIGHT (LBS)

PROCUREMENT DATA

PROCURING SERVICE: SPEC &/OR DWG:

DESIGN COG: TASSA

CONTRACTOR

Support Agency

LOCATION

CONTRACT OR

ORDER NO.

APPROX. UNIT COST

Army Signal Materiel Fort Monmouth, N. J.

RADIO INTERCEPT CONTROL SET

AN/MTQ-3

FUNCTIONAL DESCRIPTION

The Radio Intercept Control Set AN/MTQ-3 is designed as a mobile, radio intercept installation that includes facilities for wire recording.

No field changes in effect at time of preparation (12 April 1961).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE OF INSTALLATION: Mobile. TYPE OF RECORDING: Wire.

OPERATING POWER ROMT: 110 v ac, 60 cps, single ph. TOI-1-IIM TOMATMADOD TWINISHUDGE

MANUFACTURER'S OR CONTRACTOR'S DATA

Emerson Radio and Phonograph Corporation, New York, New York.

TUBE AND/OR CRYSTAL COMPLEMENT

Electron Tube, Crystal and/or Semi-Conductor Device data not available.

REFERENCE DATA AND LITERATURE

NAVSHIPS 93400: Preliminary Data Form for Radio Intercept Control Set AN/MTQ-3.

TYPE CLASSIFICATION (NAVY) PROCUREMENT COGNIZANCE MIL-1-10768 (SIG C) DESIGN COGNIZANCE TASSA STOCK NO.

adia.	EQUIPMENT SUPPL	LD DATA	7 1111111111111111111111111111111111111
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	(lbs.)
1 1 1 5	Radio Intercept Control Set AN/MTQ-3 consists of: Truck, Cargo M-35 Shelter S-44/G Control-Power Supply OA-323()/G Rack, Electrical Equipment MT-1041()/GR	2-1/2 ton (6 × 6) 75 × 80-1/4 × 138-1/2 20-3/16 × 20-1/4 × 65-3/8	the season of the best because the

RADIO INTERCEPT CONTROL SET

AN/MTQ-4

FUNCTIONAL DESCRIPTION

The Radio Intercept Control Set AN/MTQ-4 is designed as a standard, mobile, shore installation.

No field changes in effect at time of preparation (12 April 1961).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE OF INSTALLATION: Ground, mobile.

OPERATING POWER ROMT: 110 v ac, 60 cps, single ph.

MANUFACTURER'S OR CONTRACTOR'S DATA

Emerson Radio & Phonograph Corporation, New York, New York.

TUBE AND/OR CRYSTAL COMPLEMENT

Electron Tube, Crystal and/or Semi-Conductor Device data not available.

REFERENCE DATA AND LITERATURE

NAVSHIPS 93400: Preliminary Data Form for Radio Intercept Control Set AN/MTQ-4.

TYPE CLASSIFICATION (NAVY)

PROCUREMENT COGNIZANCE MIL-1-10768 (SIG C)

DESIGN COGNIZANCE TASSA

STOCK NO.

EQUIPMENT SUPPLIED DATA			
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT
1610W	Radio Intercept Control Set AN/MTQ-4 consists of:	etherya o en Panara	955
1 1 1	Truck, Cargo M-55 Shelter S-44/G Control-Power Supply Group 0A-323()/G	2-1/2 ton (6 x 6) 75 x 80-1/4 x 138-1/2	5000
2	Switchboard, Radio Intercept Control SB-213()/TTQ-3	20-1/4 × 29-3/16 × 65-3/8	
1	Switchboard, Direction Finder Control SB-214()/TTQ-3	20-3/16 x 20-1/4 x 65-3/8	
2	Amplifier-Power Supply AM-942()/TTQ-3	8-23/32 × 10 × 19	
1	Amplifier—Power Supply	8-23/32 x 10-3/16 x 19	

PUBLIC ADDRESS SET

AN/PIQ-3

FUNCTIONAL DESCRIPTION

The AN/PIQ-3 is a portable equipment designed for the transmission, amplification, and reproduction of voice intelligence.

No field changes in effect at time of preparation (24 June 1958).

RELATION TO OTHER EQUIPMENT

The AN/PIQ-3 is the USMC Public Address Equipment Type MPA-1.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER OUTPUT: 250 W.
OUTPUT IMPEDANCE: 9 ohms.

ALTERNATOR OUTPUT: 115 v, 60 cps, single

ph, 1.67 kva.

MANUFACTURER'S OR CONTRACTOR'S DATA

Western Electric Co, Inc., New York, N.Y.

Contract NObs-12920.

Contract NObs-14643.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tube or Crystal data available.

REFERENCE DATA AND LITERATURE

Nomenclature Card for Public Address Set AN/ PIQ-3.

TYPE CLASSIFICATION

DESIGN COGNIZANCE BUSHIPS

PROCUREMENT COGNIZANCE

STOCK NO.

R.D.B. IDENT. NO.

EQUIPMENT SUPPLIED DATA				
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)	
1	Amplifier WECO Part X-66468A1			
1	Microphone WECO Part D-173340E	- All or all the second		
1	Reproducer WECO Part X-66468C1			
1	Gas Engine Alternator WECO Part X-66468D		LVBWAR	
1	Multimeter TS-380()/U	AND THE PARTY OF THE PARTY	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1	Voltmeter WECO Part B-409090-3			
1	Set of Connecting Cables	and the second second		
1	Set of Equipment Spares	The second	1	

TERMINAL GROUP, TELEGRAPH

AN/SCA-1(XN-1)

FUNCTIONAL DESCRIPTION

The AN/SCA-1(XN-1) connects automatically and manually to control, test, process, encrypt and decrypt, diversify, subdivide, and channel messages translated to electrical form between the subscriber subsets and the radio frequency equipment.

No field changes in effect at time of preparation (26 September 1960).

RELATION TO OTHER EQUIPMENT

The AN/SCA-1(XN-1) is designed to be used with but not part of AN/SSQ-29(), AN/SRC-16(), -18(), 19(), AN/SSA-24(XN-1), AN/SSA-25(XN-1) and AN/SSA-26(XN-1).

The AN/SCA-1(XN-1) is designed as part of the AN/SCA-1().

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE OF INSTALLATION: Surface shipboard equipment.

OPERATING POWER RQMT: 115 v ac, 400 cps, single ph; 115 v ac, 400 cps, 3 ph; 440 v ac, 400 cps, 3 ph.

MANUFACTURER'S OR CONTRACTOR'S DATA

Alpha Corporation/Collins Radio Co., Richardson, Texas.

Contract NObsr-75853, dated 26 February 1960.

TUBE AND/OR CRYSTAL COMPLEMENT

Electron Tube and/or Crystal data not available.

REFERENCE DATA AND LITERATURE

NAVSHIPS 93400: Preliminary Data Form for Terminal Group, Telegraph AN/SCA-1(XN-1).

TYPE CLASSIFICATION (NAVY)
DESIGN COGNIZANCE NAVY BUSHIPS
PROCUREMENT COGNIZANCE SHIPS—H-3333
STOCK NO.
R.D.B. IDENT, NO.

EQUIPMENT SUPPLIED DATA			
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Terminal Group, Telegraph AN/SCA-1(XN-1) consists of:	eductyr tyn mag tyrgol Antony ymegalygol mydor	
1	Channeling Equipment	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
1	Automatic Switching Equipment		

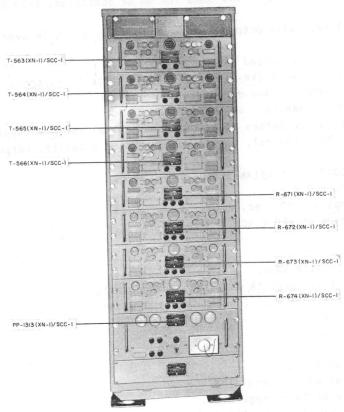
TERMINAL, TELEGRAPH CARRIER AN/SCC-I(XN-I) 10 July 1962 Functional Class: FSN: Cog Service: USN USAF USN USA

TYPE CLASS:

Used by

Used by

MANUFACTURER'S NAME/CODE NUMBER: Northern Radio Company, (88183).



Terminal, Telegraph Carrier AN/SCC-1(XN-1)

FUNCTIONAL DESCRIPTION:

The Terminal, Telegraph Carrier AN/SCC-1(XN-1) consists of both the transmitting and receiving groups of terminals for an eight (8)-channel audio frequency telegraph carrier communication system capable of being used on radio circuits or wire lines. The eight channels cover a band width of approximately 1300 cycles and are spaced 170 cycles apart. No field changes in effect at time of preparation (16 April 1962).

TECHNICAL CHARACTERISTICS:

TYPE OF MULTIPLEXING: Frequency division type. NUMBER OF CHANNELS: 8. CHANNEL SPACING: 170 cps.

BANDWIDTH: 1300 cycles.

NUMBER OF WORDS PER MINUTE: 100 wpm.

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AN/SCC-I(XN-I) TERMINAL, TELEGRAPH CARRIER
FREQUENCY RANGE: 340 to 1700 cps.
```

TELEGRAPH CARRIER TERMINAL CABINET CY-1813 (XN-1)/SCC-1

POWER CONSUMPTION: 800 W.

TELEGRAPH CARRIER TRANSMITTER T-563(XN-1)/SCC-1 THROUGH T-566(XN-1)/SCC-1

TYPE OF OPERATION: Single-channel operation.

INPUT LEVEL (PER CHANNEL): 20 or 60 ma neutral telegraph loop, battery supplied by loop. INPUT IMPEDANCE (PER CHANNEL): 560 ohms for 60 ma operation; 1460 ohms for 20 ma opera-

OUTPUT: 600 ohm line; audio output level continuously variable over range of M24 dbm to

KEYING RATE: 40 dots per second max.

TELEGRAPH CARRIER RECEIVER R-671(XN-1)/SCC-1 THROUGH R-674(XN-1)/SCC-1

INPUT LEVEL (PER CHANNEL): M40 db to P10 db.

INPUT IMPEDANCE (PER CHANNEL): 600 ohms, unbalanced.

OUTPUT (PER CHANNEL): DC pulses of 20 or 60 ma neutral battery supplied from loop. DC pulses of 0 to 100 v neutral, positive or negative polarity, battery supplied from re-

POWER SUPPLY AND STANDARD PP-1313 (XN-1)/SCC-1

POWER CONSUMPTION: 800 W.

LINE FUSES: 10 amps at 250 v ac.

OUTLET FUSES: 5 amps at 250 v ac.

OUTPUTS

AC

ONE: 6.3 v at 31.2 amps.

TWO: 6.3 v at 1.2 amps (8 windings, not ground).

THREE: 6.3 v at 0.3 amps (8 windings, not ground).

FOUR: 115 v, 200 W.

FIVE: 115 v, 40 W.

DC

ONE: P275 v at 40 ma.

TWO: P216 v at 400 ma regulated. THREE: P108 v at 16 ma regulated. FOUR: M150 v at 50 ma regulated.

CONTROLS (INTERNAL): P216 v adjust; M150 v adjust.

FREQUENCY STANDARD: Supplies 85 cps porm 0.01% test signal.

RELATION TO OTHER EQUIPMENT: None.

EQUIPMENT REQUIRED BUT NOT SUPPLIED:

MAJOR COMPONENTS

OTY ITEM STOCK NUMBERS DIMENSIONS WEIGHT (INCHES) (LBS)

Telegraph Carrier Terminal 1

AN/SCC-1(XN-1) consists of:

1 Telegraph Carrier Terminal cabinet CY-1813(XN-1)/SCC-1

20-3/8 x 24-7/8 x 61

TERMINAL, TELEGRAPH CARRIER AN/SCC-I(XN-I)

QTY I	TEM 90. TOARTROO	STOCK NUMBERS	DIMENSIONS (INCHES)	WEIGHT (LBS)
1	Telegraph Carrier Transmitter T-563(XN-1)/SCC-1 Telegraph Carrier Transmitter	Y A	5-1/4 × 16-1/4 × 19 5-1/4 × 16-1/4 × 19	
1	T-564(XN-1)/SCC-1 Telegraph Carrier Transmitter T-565(XN-1)/SCC-1		5-1/4 × 16-1/4 × 19	
1	Telegraph Carrier Transmitter T-566(XN-1)/SCC-1		5-1/4 × 16-1/4 × 19 5-1/4 × 16-1/4 × 19	
1	Telegraph Carrier Receiver R-671(XN-1)/SCC-1		5-1/4 × 16-1/4 × 19	
1	Telegraph Carrier Receiver R-672(XN-1)/SCC-1 Telegraph Carrier Receiver		5-1/4 × 16-1/4 × 19	
1	R-673(XN-1)/SCC-1 Telegraph Carrier Receiver		5-1/4 × 16-1/4 × 19	
1	.R—674(XN—1)/SCC—1 Power Supply & Standard Telegraph Carrier PP—1313		7 × 16-1/4 × 19	
ц 1 1	(XN-1)/SCC-1 Extension Cable (3 ft lg) AN Connector (two-pin) Technical Manual NAVSHIPS 92857		36 lg 1 x 9 x 11-1/2	

REFERENCE DATA AND LITERATURE:

NAVSHIPS 92857: Technical Manual for Telegraph Carrier Terminal AN/SCC-1(XN-1).

TUBE, CRYSTAL AND/OR SEMI-CONDUCTOR DATA:

TUBES: (9) OB2WA (10) 5651WA (24) 5726-6AL5W (10) 5751 (42) 5814A (10) 6AU6WB

(8) 6C4WA (16) 6J6WA (3) 6080WA (9) 6216

CRYSTALS: None used.

SEMI-CONDUCTORS: None used.

SHIPPING DATA

WEIGHT (LBS) VOLUME (CU FT) PKGS

PROCUREMENT DATA

PROCURING SERVICE: USN SPEC &/OR DWG: SHIPS-T-1420

DESIGN COG: USN, BuShips

AN/SCC-I(XN-I) TERMINAL,	TELEGRAPH CARRIER		
CONTRACTOR	LOCATION	CONTRACT OR ORDER NO.	APPROX.
Northern Radio Company Type no. 198 Model no. 1	New York, N. Y.	NOBsr-64150, 17 September 1956	0411 (031

TELETYPEWRITER GROUP

AN/SGA-1

FUNCTIONAL DESCRIPTION

The Teletypewriter Group AN/SGA-1 is designed as a teletypewriter system (off-line), for use with classified communication equipment.

No field changes in effect at time of preparation (13 April 1961).

MANUFACTURER'S OR CONTRACTOR'S DATA

TYPE OF PRINTING: Tape type.

TYPE OF FEED: Sprocket paper feed.

TYPE OF COMMUNICATION: Character arrangement communication.

TYPE OF ARRANGEMENT: Gothic style type pallet arrangement.

TELETYPEWRITER DATA

TYPE OF KEYBOARD: Standard communication keyboard.

TYPE OF CHARACTERS: English.

NUMBER OF CHARACTERS PER LINE: 72.

TYPE OF FUNCTION: Sending and receiving.

TYPE OF FEED: Friction feed.

TYPE OF MOTOR: Synchronous motor.

UNIT CODE: 7.42.

TRANSMITTER-DISTRIBUTOR DATA

UNIT CODE: 7.42.

NUMBER OF CHANNELS: Single channel. TYPE OF MOTOR: Synchronous motor.

NUMBER OF REVOLUTIONS PER MINUTE: 1800

rpm.

OPERATING POWER ROMT: 115 v ac, 60 cps, single ph.

TUBE AND/OR CRYSTAL COMPLEMENT

Electron Tube, Crystal and/or Semi-Conductor Device data not available.

REFERENCE DATA AND LITERATURE

NAVSHIPS 93400: Preliminary Data Form for Teletypewriter Group AN/SGA-1.

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

EQUIPMENT SUPPLIED DATA			
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1 1 1 1 1 1	Teletypewriter Group AN/SGA-1 consists of: Rack MT-1679/SGA-1 Transmitter-Distributer CPS 2699 Switching Unit CPS 3333 Power Supply CPS 3334 Teletypewriter TT-69A/UG Reperforator TT-159/FG Mixing Repeater Unit SSM-3 Transmitter Distributor TT-57/FG	25 × 29 × 45 12 × 16-1/4 × 16-1/2	249

Radio-Communication Terminal Equipment

TELETYPEWRITER GROUP

AN/SGA-2

FUNCTIONAL DESCRIPTION

The AN/SGA-2 is designed for the Teletypewriter system (off-line) for use with classified communication equipment.

No field changes in effect at time of preparation (24 June 1958).

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tube or Crystal data available.

REFERENCE DATA AND LITERATURE

Nomenclature Card AN/SGA-2 for Teletypewriter Group.

TYPE CLASSIFICATION

DESIGN COGNIZANCE BUSHIPS

PROCUREMENT COGNIZANCE

STOCK NO.

R.D.B. IDENT. NO.

TELETYPEWRITER CODE GROUP

AN/SGA-3A

FUNCTIONAL DESCRIPTION

The AN/SGA-3A is specifically designed to process classified messages automatically on an off-line basis.

No field changes in effect at time of preparation (16 January 1961).

RELATION TO OTHER EQUIPMENT

The AN/SGA-3A is designed to be used with, but is not part of, TSEC/KL-47 or TSEC/KL-29.

MANUFACTURER'S OR CONTRACTOR'S DATA

Teletype Corporation, Chicago, Illinois.

TUBE AND/OR CRYSTAL COMPLEMENT

Electron Tube and/or Crystal data not available.

REFERENCE DATA AND LITERATURE

NAVSHIPS 93400: Preliminary Data Form for Teletypewriter Code Group AN/SGA-3A.

TYPE CLASSIFICATION (NAVY)

DESIGN COGNIZANCE NAVY BUSHIPS

PROCUREMENT COGNIZANCE TELETYPE CORP SPEC. NO.

STOCK NO. ZCC200

R.D.B. IDENT. NO.

EQUIPMENT SUPPLIED DATA			
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Teletypewriter Code Group AN/SGA-3A consists of:		
1	Control Converter TSEC/HL-2		
1	Tape Reader TSEC/HL-1B	7-1/2 × 10 × 12-1/4	0017
1	Power Supply PP-1767/UG	18-1/4 × 20-1/2 × 40-1/2	81
1	Teletypewriter TT-234A/SGA-3	11 × 15 × 18	
1	Reperforator Transmitter, Teletype- writer TT-159/UG		

April 1958

RADIO TELETYPE TERMINAL SET

AN/SGC-1, 1A



Radio Teletypewriter Set AN/SGC-1

FUNCTIONAL DESCRIPTION

The AN/SGC-1 and AN/SGC-1A are teletype-writer terminals designed to make possible the transmission and reception of teletype-writer messages by radio communication between stations similarly equipped. They convert the current pulses from the teletype-writer equipment into audio tones which modulate the local transmitter in transmission, and convert the intelligence of received tones to make-and-break signals for operating the associated teletypewriter.

They are basically similar in size, weight, operation, installation and external connection, however, the chassis of the AN/SGC-1 is not interchangeable with the chassis of the AN/SGC-1A.

Field Change Number 1 for the AN/SGC-1 permits adjustment of the teletypewriter loop current, when in Mark condition to 20 or 60 milliamperes.

Data on this sheet reflects the following field changes, FC-1 for AN/SGC-1A(11 October 1957).

RELATION TO OTHER EQUIPMENT

Equipment Required but not Supplied: (1) Radio Transmitter, (1) Radio Receiver, (*) Teletypewriter (suitable to operate on 60 ma or 20 to 60 ma neutral loop).

NOTE: *-1 or more as required.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

FREQUENCY: 500 and 700 cps.
OUTPUT POWER: +10 dbm max.
EMISSION AND RECEPTION: A3.
INPUT SIGNAL LEVEL: -40 dbm min.
IMPEDANCE DATA
OUTPUT: 50 and 600 above

OUTPUT: 50 and 600 ohms. INPUT: 600 ohms.

HEAT DISSIPATION

AN/SGC-1: 117 W. AN/SGC-1A: 86 W. POWER REQUIREMENTS

TELETYPEWRITER TERMINAL AN/SGC-1: 115 v ±10%, 50 to 60 cps, 1

AN/SGC-1, 1A

RADIO TELETYPE TERMINAL SET

April 1958

(2) 6005/6AQ5W

AN/SGC-1A: 115 v $\pm 10\%$, 50 to 60 cps, NUMBER OF CHARACTERS PE 0.74 amps.

TELETYPE LOOP

AN/SGC-1: 110 v DC, 60 ma.

AN/SGC-1A: 110 v DC, 20 or 60 ma.

MANUFACTURER'S OR CONTRACTOR'S DATA

Rembler Company, Ltd., San Francisco, California.

Contract NObsr-39323, dated 26 June 1947(AN/SGC-1).

Contract NObsr-52077, dated 17 November 1950(AN/SGC-1A).

Approximate Cost: \$500.00 with equipment spares.

TUBE AND/OR CRYSTAL COMPLEMENT

(1) OC3W

(2) 5Y3WGTB

(6) 12AU7

Total Tubes: (11)

(4) 1N69 see see see see fait a constant and

Total Crystals: (4)

REFERENCE DATA AND LITERATURE

NAVSHIPS 91152: Technical Manual for Radio Teletype Terminal Set AN/SGC-1.

NAVSHIPS 91503: Technical Manual for Radio Teletype Terminal Set AN/SGC-1A.

TYPE CLASSIFICATION DESIGN COGNIZANCE BUSHIPS PROCUREMENT COGNIZANCE MIL-R-15610 (SHIPS) STOCK NO.

SHIPPING DATA WEIGHT OVERALL DIMENSIONS PACKED VOLUME (inches) (lbs.) CONTENTS AND IDENTIFICATION NUMBER (Cu.Ft.) OF BOXES 20-1/2 × 21-1/4 × 24-1/4 148 AN/SGC-1 Teletypewriter Terminal TT-40/SGC-1 1 including: (1) Set of Equipment Spares (2) Technical Manual NAVSHIPS 91152 130 20-1/2 × 21-1/4 × 24-1/4 AN/SGC-1A 6.2 Teletypewriter Terminal TT-40A/SGC-1 1 including: (1) Set of Equipment Spares (2) Technical Manual NAVSHIPS 91503

		EQUIPMENT SUPPLIED	DATA	
QUANT		NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	(lbs.)
AN/S0 1 1 2	GC-	Teletypewriter Terminal TT-40/SGC-1 Teletypewriter Terminal TT-40A/SGC-1 Set of Equipment Spares Set of Equipment Spares Technical Manual NAVSHIPS 91152 Technical Manual NAVSHIPS 91503	9-11/16 × 17-9/16 × 19-1/4 9-11/16 × 17-9/16 × 19-1/4 6-1/8 × 16 × 19-1/8 6-1/8 × 10-1/2 × 12-13/16 3/16 × 8-5/8 × 11-1/4 3/16 × 8-5/8 × 11-1/4	50 50 49 27 0.5 0.5

TELETYPEWRITER SET

AN/SGC-4

FUNCTIONAL DESCRIPTION

The AN/SGC-4 Teletypewriter Set is a motor driven mechanism designed for interchanging typewritten messages between two or more points connected by telegraph communication channels.

No field changes in effect at time of preparation (14 May 1958).

RELATION TO OTHER EQUIPMENT

The AN/SGC-4 Teletypewriter Set is the same as the AN/FGC-10 except modified for shipboard use.

Equipment Required but not Supplied: Line Relay RY-30, Line Relay Bracket, Rectifier REC-29/PU-424/U.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

POWER INPUT: 115 v, 60 cps, 1 ph.
OUTPUT SIGNAL CHARACTERISTICS: 5 unit code.
OPERATING FREQUENCY: 369 operations per
minute.

TYPE OF FEED: Friction feed.

NUMBER OF CHARACTERS PER LINE: 72.

TYPE OF CHARACTERS: English.

TUBE AND/OR CRYSTAL COMPLEMENT

Electron Tubes and Crystal Data not Available.

REFERENCE DATA AND LITERATURE

Nomenclature Card for Teletypewriter Set AN/SGC-4. NAVSHIPS Form 4457 for Teletypewriter Set AN/SGC-4.

TYPE CLASSIFICATION

DESIGN COGNIZANCE BUSHIPS

PROCUREMENT COGNIZANCE

STOCK NO.

R.D.B. IDENT. NO.

EQUIPMENT SUPPLIED DATA				
PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT	
1 1 1 1 1 1 1	Base BB—44 Keyboard BK—221D Typing Unit BP—128/247 Cover BPC—200AA (modified) Set of Gears 80437 Copyholder 115700AA Plate Cover 115706AA Table XTR—115 (modified)			

TELETYPEWRITER SET

AN/SGC-5

FUNCTIONAL DESCRIPTION

The AN/SGC-5 is designed for shipboard use. It provides for the transmission and reception of type written messages over a telegraph circuit at a speed of 368 operations per minute (approximately 72 characters per minute). Facilities are provided either for direct keyboard or tape transmission.

No field changes in effect at time of preparation (14 March 1960).

RELATION TO OTHER EQUIPMENT

The AN/SGC-5 Teletypewriter Set is the AN/FGC-13 modified for shipboard use.

EQUIPMENT REQUIRED BUT NOT SUPPLIED

(1) Rectifier REC-29/PP424/U.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE OF INSTALLATION: Fixed station.

TYPE OF KEYBOARD: Standard communication keyboard.

TYPE OF CHARACTERS: English characters.

NUMBER OF OPERATIONS PER MINUTE: 368 operations per minute.

NUMBER OF CHARACTERS PER LINE: 72 characters per line.

TYPE OF FEED: Friction feed.

TYPE OF DRIVE: Synchronous motor.

OPERATING POWER RQMT: 115 ▼ AC, 60 cps, single ph.

MANUFACTURER'S OR CONTRACTOR'S DATA

San Francisco Naval Shipyard, San Francisco, California.

TUBE AND/OR CRYSTAL COMPLEMENT

Electron Tube and/or Crystal Data not available.

REFERENCE DATA AND LITERATURE

NAVSHIPS 93400: Preliminary Data Form for Teletypewriter Set AN/SGC-5.

Nomenclature Card for Teletypewriter Set

Nomenclature Card for Teletypewriter Set AN/SGC-5.

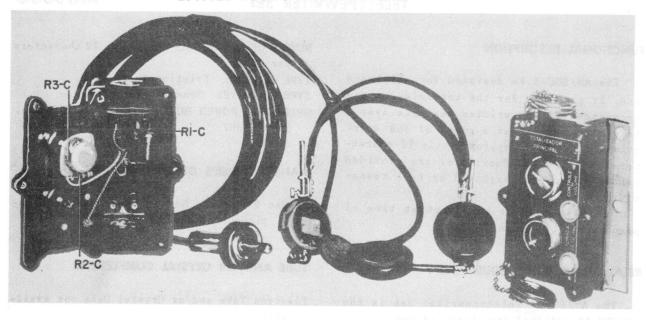
TYPE CLASSIFICATION (NAVY)
DESIGN COGNIZANCE NAVY BUSHIPS
PROCUREMENT COGNIZANCE
STOCK NO.
R.D.B. IDENT. NO.

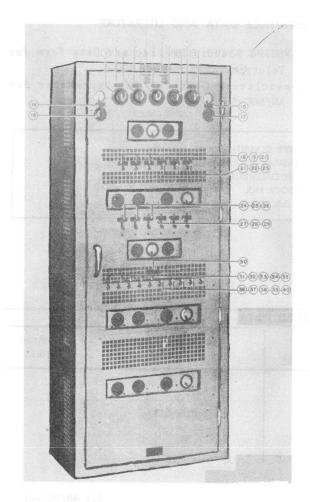
EQUIPMENT SUPPLIED DATA						
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)			
1	Typing Unit Teletype Corp No. BP-119/210					
1	Base Teletype Corp No. BB-50					
1	Motor Teletype Corp No. MV-4					
1	Set of Gears Teletype No. 80437					
1	Cover (Modified) Type C-105					
1	Table (Modified) Type XRT-115					

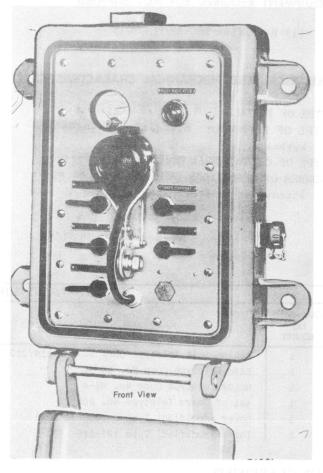
December 1956

BATTLE ANNOUNCING EQUIPMENT

AN/SIA-66



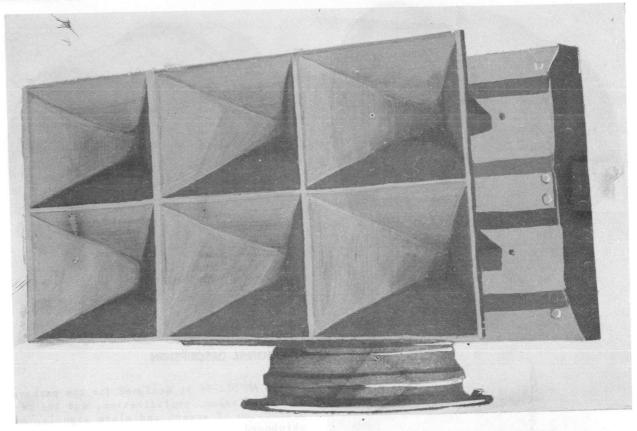


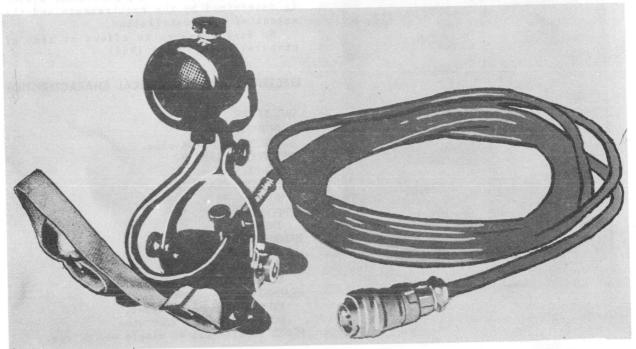


AN/SIA-66

BATTLE ANNOUNCING EQUIPMENT

December 1956



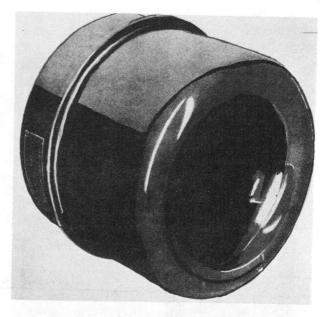


UNCLASSIFIED

BATTLE ANNOUNCING EQUIPMENT

AN/SIA-66





Battle Announcing Equipment AN/SIA-66

FUNCTIONAL DESCRIPTION

The AN/SIA-66 is designed for the purpose of transmission, amplification, and the reproduction of speech and alarm signals, on shipboard.

The number of Transmitters, Control Boxes, Signal Generators, Amplifier Units, and Reproducers employed on any particular system is determined by the requirements and the extent of the installation.

No field changes in effect at time of preparation (26 June 1956).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

AMPLIFIER

OUTPUT: 140 W.

INPUT LOAD: 64 ohms.

REPRODUCER CLASS H

INPUT: 95 v.

REPRODUCER CLASS "M"

INPUT: 95 v.

REPRODUCER CLASS "L"

INPUT: 95 v.

REPRODUCER CLASS "S"

INPUT: 95 v.

REPRODUCER CLASS "BM"

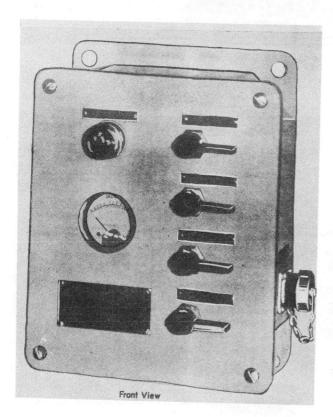
DC RESISTANCE: 14.5 ohms.

HEADSET

TYPE: Permanent magnet.

DC RESISTANCE: 2200 ohms.

POWER INPUT: 115 v, single ph, 60 cps.



AN/SIA-66

BATTLE ANNOUNCING EQUIPMENT

December 1956

MANUFACTURER'S OR CONTRACTOR'S DATA

Stromberg-Carlson Co., Rochester, New York Contract NObs-11477.

TUBE AND/OR CRYSTAL COMPLEMENT

(16) 6SJ7

(4) 6SN7GT

(4) 6H6

(4) 6B4G

(8) 809 (4) 6X5GT (4) 866A

(16) 6SL7GT (4) 6X5GT

Total Tubes: (60)

REFERENCE DATA AND LITERATURE

NAVSHIPS 365-0063: Technical Manual for Battle Announcing Equipment AN/SIA-66.

TYPE CLASSIFICATION
DESIGN COGNIZANCE
PROCUREMENT COGNIZANCE
STOCK NO.

EQUIPMENT SUPPLIED DATA						
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	Patran	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)		
1	Amplifier MCG-MCA		18 X 30 X 72	1000		
1	Transmitter, Class "A"		9 X 14-7/8 X 18-1/8	35		
1	Control Box, Class "D"		5-1/2 X 8-1/2 X 11-1/8	16		
1	Portable Transmitter		4-1/2 X 5-1/2 X 12	4		
1	Headset		4 X 6 X 6	3		
1	Jack Box		3-1/8 X 4-11/16 X 6-3/16	2		
	Reproducer, Class "H"		8-3/4 X 12-3/4 X 12-3/4	25		
Detti :	Reproducer, Class "M"		8-3/4 X 12-3/4 X 12-3/4	25		
	Reproducer, Class "L"		7-1/2 X 9-1/16 X 9-1/16	12		
*	Reproducer, Class "S"		7-1/2 X 9-1/26 X 9-1/16	12		
1	Reproducer, Class "bm" (Bull Horn)		24 X 26 X 37	283		
1	Set Spare Parts, Tools, Test Equipment		10 20 110 20 1100 1 0100 1	1 -07		

^{*} Quantities as required per vessel.

COMMUNICATIONS CENTRAL

AN/SRC-18 ()

FUNCTIONAL DESCRIPTION

The AN/SRC-18() is capable of providing simultaneous and independent operation of three (3) circuits, each of which shall be of simplex or full duplex operation on any frequency within the range of 2 to 30 mc, except for Type B amplifiers.

No field changes in effect at time of preparation (27 December 1960).

RELATION TO OTHER EQUIPMENT

The AN/SRC-18() is designed to be used with but not part of Terminal Set, Telegraph AN/SSC-1(XN-1) and Data Terminal Set AN/SSQ-29(XN-2).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE OF INSTALLATION: Shipboard. TYPE OF COOLING: 70 deg F porm 5 deg water. OPERATING FREQUENCY RANGE: 2 to 30 mc. OPERATING POWER ROMT: 115 v ac, 60 cps, single ph: 440 v ac, 60 cps, 3 ph.

MANUFACTURER'S OR CONTRACTOR'S DATA

Collins Radio Co., Richardson, Texas.

TUBE AND/OR CRYSTAL COMPLEMENT

Electron Tube and/or Crystal data not available.

REFERENCE DATA AND LITERATURE

NAVSHIPS 93400: Preliminary Data Form for Communications Central AN/SRC-18().

TYPE CLASSIFICATION (NAVY) DESIGN COGNIZANCE NAVY BUSHIPS PROCUREMENT COGNIZANCE SHIPS-1-3076 STOCK NO. R.D.B. IDENT. NO.

EQUIPMENT SUPPLIED DATA			
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Communications Central AN/SRC-18() consists of:		
3	Linear Power Amplifier Units		
3	Frequency Generator Units		
3	Radio Frequency Translator Units		1
3	Audio Frequency Translator Units		
2	Radiated Power Control & Receiver Attenuator Units		
1	Antenna Multicoupler Unit		
2	Linear Power Amplifier Units Type B		
2	Primary Frequency Standard Units		
1	Operating Console		
1	Programmed Test, Unit		
2	Antenna, Switching & Patching Units		

COMMUNICATIONS CENTRAL

AN/SRC-19 ()

FUNCTIONAL DESCRIPTION

The AN/SRC-19() is capable of providing simultaneous and independent operation of two (2) circuits, each of which shall be of simplex or full duplex operation on any frequency within the range of 2 to 30 megacycle (MC), except for the type B amplifiers.

No field changes in effect at time of preparation (27 December 1960).

RELATION TO OTHER EQUIPMENT

The AN/SRC-19() is designed to be used with but not part of Terminal Set, Telegraph AN/SSC-1(XN-1) and Data Terminal Set AN/SSQ-29(XN-2).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE OF INSTALLATION: Shipboard.

TYPE OF COOLING: 70 deg F porm 5 deg water.

OPERATING FREQUENCY RANGE: 2 to 30 mc.

OPERATING POWER ROMT: 115 v ac, 60 cps, single ph; 440 v ac, 60 cps, 3 ph.

MANUFACTURER'S OR CONTRACTOR'S DATA

Collins Radio Co., Richardson, Texas.

TUBE AND/OR CRYSTAL COMPLEMENT

Electron Tube and/or Crystal data not available.

REFERENCE DATA AND LITERATURE

NAVSHIPS 93400: Preliminary Data Form for Communications Central AN/SRC-19().

TYPE CLASSIFICATION (NAVY)
DESIGN COGNIZANCE NAVY BUSHIPS
PROCUREMENT COGNIZANCE SHIPS-1-3076
STOCK NO.
R.D.B. IDENT. NO.

EQUIPMENT SUPPLIED DATA			
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT
1	Communications Central AN/SRC-19() consists of:		
2	Linear Power Amplifier Units	NEWS OF THE PROPERTY OF THE PARTY OF THE PAR	
2	Frequency Generator Units		
2	Radio Frequency Translator Units		
2	Audio Frequency Translator Units	The second second second	9.3
1	Radiated Power Control & Receiver Attenuator Unit		70 11257
1	Antenna Multicoupler Unit	riterings in the property of	
1	Linear Power Amplifier Unit Type B	A July 1997 The second of the	
1	Primary Frequency Standard Unit	The second of the second	
1	Operating Console	W 721	
1	Programmed Test Unit		
1	Antenna Switching & Patching Unit		1

SUBSCRIBER GROUP TELETYPEWRITER-VOICE AN/SSA-24(XN-1)

FUNCTIONAL DESCRIPTION

The AN/SSA-24(XN-1) is primary terminal equipment and shall be operated by the message originator or receiver and be capable of transmitting and receiving simultaneously. One high quality voice circuit will be available to each subscriber group. The teletypewriter shall be capable of 60 to 100 words per minute (wpm) using the standard 7-element Baudot code and have "key-caps" and one tape printer of weather type arrangement. The loudspeaker shall have a gain control for output and a sufficiently undistorted output to overcome normal ambient.

No field changes in effect at time of p-reparation (13 October 1960).

RELATION TO OTHER EQUIPMENT

The AN/SSA-24(XN-1) is designed as part of Terminal Set, Telegraph AN/SSC-1(XN-1). It is used with but not part of the Data Terminal Set AN/SSQ-29(XN-2) and Communications Central AN/SRC-16(XN-1), AN/SRC-18(), and AN/SRC-19().

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE OF CODE: Standard 7-element Baudot code. TYPE OF CAPABILITIES: Teletypewriter.

TYPE OF ARRANGEMENT: "Key-caps" and one type printer of weather type arrangement. TELETYPEWRITER SPEED: 60 and 100 wpm. OPERATING POWER ROMT: 115 v ac, 400 cps, single ph.

MANUFACTURER'S OR CONTRACTOR'S DATA

Collins Radio Co., Richardson, Texas. Contract NObsr-75853, dated 26 February 1960.

TUBE AND/OR CRYSTAL COMPLEMENT

Electron tube and/or crystals not used.

REFERENCE DATA AND LITERATURE

NAVSHIPS 93400: Preliminary Data Form for Subscriber Group, Teletypewriter-Voice AN/SSA-24(XN-1).

(NAVY) TYPE CLASSIFICATION NAVY BUSHIPS DESIGN COGNIZANCE PROCUREMENT COGNIZANCE SHIPS-H-3333 STOCK NO. R.D.B. IDENT. NO.

QUANTITY PER EQUIPT	EQUIPMENT SUPPLIED DATE	OVERALL DIMENSIONS (inches)	WEIGHT
1	Subscriber Group, Teletypewriter-Voice AN/SSA-24(XN-1) consists of:		
1	Teletypewriter Set AN/UGC-11(XN-1)		
1	Subscriber Group, Voice 0A-2576(XN-1) ISSA		

SUBSCRIBER GROUP, TELETYPEWRITER-VOICE

AN-SSA-25 (XN-1)

FUNCTIONAL DESCRIPTION

The AN/SSA-25(XN-1) is primary terminal equipment operated by the message originator or receiver. The group is capable of transmitting and receiving simultaneously. One high quality voice circuit is available to each subscriber group. Voice operating power requirements are 28 volts direct current (DC).

No field changes in effect at time of preparation (6 October 1960).

RELATION TO OTHER EQUIPMENT

The AN/SSA-25(XN-1) is part of Terminal Set, Telegraph AN/SSC-1(XN-1). It is used with but not part of Data Terminal Set AN/SSQ-29(XN-2) and Communications Central AN/SRC-16(XN-1), AN/SRC-18() and AN/SRC-19().

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TELETYPEWRITER CAPABILITIES: 60 and 100 wpm, standard 7-element baudot code, "keycaps" and one tape printer of weather type arrangement.

LOUDSPEAKER CHARACTERISTICS: Sufficient undistorted output to overcome normal ambient and a gain control for loudspeaker output.

DYNAMIC HANDSET CHARACTERISTICS: Sufficient

output to the line to overcome normal line noises according to standard telephone practice, muting of the speaker while using the handset, push-to-talk switch, and handset quality equal to or better than Handset H-51/U.

OPERATING POWER RQMT: 115 v ac, 60 cps, single ph; 28 v dc.

MANUFACTURER'S OR CONTRACTOR'S DATA

Alpha Corp., Div of Collins Radio Co., Richardson, Texas. Contract NObsr-75853, dated 26 February 1960.

TUBE AND/OR CRYSTAL COMPLEMENT

Electron Tube and/or Crystal data not available.

REFERENCE DATA AND LITERATURE

NAVSHIPS 93400: Preliminary Data Form for Subscriber Group Teletypewriter-Voice AN/ SSA-25(XN-1).

TYPE CLASSIFICATION (NAVY)
DESIGN COGNIZANCE NAVY BUSHIPS
PROCUREMENT COGNIZANCE SHIPS—H-3333
STOCK NO.
R.D.B. IDENT. NO.

	EQUIPMENT SUPPLIED DATA			
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT	
1	Subscriber Group, Teletypewriter-voice AN/ AN/SSA-25(XN-1) consists of:		-	
1	Teletypewriter TT-242/UG			
1	Reperforator, Teletypewriter TT—192A/UG	8 × 15 × 15	1	
1	Distributer-Transmitter, Teletypewriter TT-187A/UG	10-1/4 × 12-1/4 × 16-1/4	1 '	
1	Teletypewriter TT-284/UG (Receiver only)		1	
1	Subscriber Group, Voice 0A-2576(XN-1)/SSA			

SUBSCRIBER GROUP, TELETYPEWRITER-VOICE

AN/SSA-26(XN-1)

FUNCTIONAL DESCRIPTION

The AN/SSA-26(XN-1) is primary terminal equipment, operated by the message originator or receiver. The subscriber group is capable of transmitting and receiving simultaneously. One high quality voice circuit will be available to each subscriber group. Voice operating power requirements are 28 volts dc. The Teletypewriter has "key-caps" and one tape printer of weather type arrangement.

No field changes in effect at time of preparation (7 October 1960).

RELATION TO OTHER EQUIPMENT

The AN/SSA-26(XN-1) is designed as part of the AN/SSC-1(XN-1). It is designed to be used with but not part of the AN/SSQ-29(XN-2); and AN/SPC-16(XN-1), AN/SPC-18(), and AN/SPC-19().

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TELETYPE SPEED: 60 and 100 wpm. OPERATING POWER ROMT: 115 v ac, 60 cps, single ph; 115 v dc; 28 v dc.

MANUFACTURER'S OR CONTRACTOR'S DATA

Collins Radio Co., Richardson, Texas. Contract NObsr-75853, dated 26 February 1960.

TUBE AND/OR CRYSTAL COMPLEMENT

Electron Tube and/or Crystal data not available.

REFERENCE DATA AND LITERATURE

NAVSHIPS 93400: Preliminary Data Form for Subscriber Group, Teletypewriter-Voice AN/SSA-26(XN-1).

TYPE CLASSIFICATION (NAVY) DESIGN COGNIZANCE NAVY BUSHIPS PROCUREMENT COGNIZANCE SHIPS-H-3333 STOCK NO. R.D.B. IDENT. NO.

	EQUIPMENT SUPPLIED DATA			
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)	
1	Subscriber Group, Teletypewriter Voice			
	AN/SSA-26(XN-1) consists of:			
1	Teletypewriter Set AN/UGC-6			
1	Subscriber Group Voice 0A-2576(XN-1)/SSA			
	consists of:			
1	Loudspeaker			
1	Power Supply (28 v, 1 amp)			
1	Dynamic Handset			
1	Hookswitch			
1	Microphone Amplifier			
1	Teletypewriter TT-261/UG	I	•	

TERMINAL SET, TELEGRAPH

AN/SSC-1(XN-1)

FUNCTIONAL DESCRIPTION

The AN/SSC-1(XN-1) subdivides a single voice band of a duplex voice radio network into subcarrier telegraph links. Automatic switching provides random access to such links and selects addressed subscriber groups through the use of baudot coded addresses. The several subscriber groups function as normal teletypewriter keyboards and page printers, plus various paper or magnetic message storage facilities. In addition, the terminal set provides party line voice terminals for a second voice band of the associated radio network.

No field changes in effect at time of preparation (6 October 1960).

RELATION TO OTHER EQUIPMENT

The AN/SSC-1(XN-1) is designed to be used with but not part of the AN/SSQ-29(), AN/SRC-16, AN/SYQ-1(V) thru 4(V).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

OPERATING POWER ROMT: 115 v ac, 400 cps, 3 ph; 440 v ac, 400 cps, 3 ph.

MANUFACTURER'S OR CONTRACTOR'S DATA

Alpha Corp., Div of Collins Radio Co., Richardson, Texas. Contract NObsr-75853, dated 26 February 1960.

TUBE AND/OR CRYSTAL COMPLEMENT

Electron Tube and/or Crystal data not available.

REFERENCE DATA AND LITERATURE

NAVSHIPS 93400: Preliminary Data Form for Terminal Set, Telegraph AN/SSC-1(XN-1).

TYPE CLASSIFICATION (NAVY)
DESIGN COGNIZANCE NAVY BUSHIPS
PROCUREMENT COGNIZANCE SHIPS-D-3333
STOCK NO.
R.D.B. IDENT. NO.

EQUIPMENT SUPPLIED DATA			
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT
4.01m	Terminal Set, Telegraph AN/SSC-1(XN-1) consists		
(adl)	of: [29936]	MEACH ON SALIN	A TOTAL ST
1	Terminal Group, Telegraph AN/SCA-1(XN-1)		5000
1	Subscriber Group, Teletypewriter AN/SSA-24 (XN-1)	02 1 03 / 02 (C) (03±1 (C2/)	5000
1	Subscriber Group, Teletypewriter Voice	kit on a promision	
1	AN/SSA-25(XN-1)	In Control	- 1
3	Subscriber Group, Teletypewriter Voice AN/SSA-26(XN-1)	se l'algert	

DATA TERMINAL SET

AN/SSQ-29 (XN-2)

FUNCTIONAL DESCRIPTION

The AN/SSQ-29(XN-2) is a service test model of a communication terminal system, which in functioning as a connecting link between suitable radio frequency equipments and digital computers, will provide a data transmission system which will form an integral part of the Naval Tactical Data System (NTDS). This equipment shall have positive pressure air circulation cooling system and be enclosed to "splashproof" requirements. The system shall not exceed a volume of 72 cubic feet. The operating panel shall be capable of being remotely located up to a distance of 200 feet.

No field changes in effect at time of preparation (5 December 1960).

RELATION TO OTHER EQUIPMENT

The AN/SSO-29(XN-1) is designed to be used with but not part of the Communications Central AN/SRC-16(XN-1), AN/SRC-18() and AN/SRC-19() and Terminal Set, Telegraph AN/SSC-1(XN-1).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

OPERATING POWER ROMT: 115 v ac, 400 cps, 3

ph, delta connected.

MANUFACTURER'S OR CONTRACTOR'S DATA

Collins Radio Co., Richardson, Texas. Contract NObsr-75852, dated 28 March 1960.

TUBE AND/OR CRYSTAL COMPLEMENT

Electron Tube and/or Crystal data not available.

REFERENCE DATA AND LITERATURE

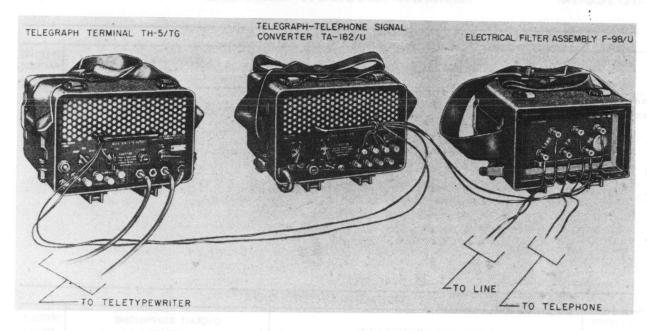
NAVSHIPS 93400: Preliminary Data Form for Data Terminal Set AN/SSQ-29(XN-2).

TYPE CLASSIFICATION (NAVY) DESIGN COGNIZANCE NAVY BUSHIPS PROCUREMENT COGNIZANCE SHIPS-D-3314 STOCK NO. R.D.B. IDENT. NO.

	EQUIPMENT SUPPLIED DATA			
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)	
1	Data Terminal Set AN/SSQ-29(XN-2) consists of:			
1	Multiplexing Unit consisting of:			
1	Multiplexer			
1	Demultiplexer			
1	Control Logic consisting of:			
1	Buffer Store			
1	Data Selector			
1	Net Program Generator			
1	Program Control			
1	System Monitoring and Fault Location			
	consisting of:			
1	System Monitor			
1	Fault Locator			

TERMINAL TELEGRAPH TELEPHONE

AN/TCC-14



Telegraph-Telephone Terminal AN/TCC-14

FUNCTIONAL DESCRIPTION

The AN/TCC-14 is a combination of three separate components. These components are the Telegraph Terminal TH-5/TG; Electrical Filter Assembly F-98/U; and Telegraph-Telephone Signal Converter TA-182/U. This combination permits simultaneous transmission of telegraph pulses and of speech. The telegraph signals utilize a portion of the frequency band used by the telephone channel while permitting the use of the channel for speech transmission.

The AN/TCC-14 may be used in point-topoint systems, network systems, switched systems, and remote control radio systems.

No field changes in effect at time of preparation (17 July 1958).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE OF MODULATION: Frequency shift.

BANDWIDTH: 200 cyc.

TRANSMISSION SPEEDS: 60, 75 and 100 words per minute (based on 7.42 unit code 6 operations per word).

TRANSMITTER OUTPUT LEVEL: 0 dbm ±2 db (fixed).

RECEIVER SENSITIVITY: 0 to 45 dbm.

TERMINAL IMPEDANCE: 600 ohms ±10%, normal at 1,000 cps for 2-wire or 4-wire operation.

RECEIVING DIRECT CURRENT (local source): 20 ma (min).

POWER DRAIN FROM (AC) SOURCE: 60 w.

MARK FREQUENCY: 1,325 cps. SPACE FREQUENCY: 1,225 cps.

OPERATING POWER ROMT: 115 v, 50 to 60 cps,

1 ph.

TUBE AND/OR CRYSTAL COMPLEMENT

(7) 12AU7

(2) 12AX7

(4) 5726-6AL5W

(2) 6X4WA

Total Tubes: (15)

No Crystals Used.

REFERENCE DATA AND LITERATURE

TM11-2239 Technical Manual AN/TCC-14 for Telegraph-Telephone Terminal.

TYPE CLASSIFICATION

DESIGN COGNIZANCE OC SIG O

PROCUREMENT COGNIZANCE MIL-T-10267

STOCK NO.

R.D.B. IDENT, NO.

AN/TCC-14

TERMINAL TELEGRAPH TELEPHONE

12011	SHIPPING DATA			
NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Telegraph—Telephone Terminal AN/TCC-14 Including:	3.05	12-1/2 X 16-1/2 X 25-1/2	88.5
	(1) Telegraph Terminal TH—5/TG	0.78	8-1/4 X 11 X 15	22.5
	(1) Telegraph—Telephone Signal Converter TA—182/U	0.78	8-1/4 X 11 X 15	19.0
	(1) Electrical Filter Assembly F-98/U	0.66	7 X 11 X 15	27.0

	EQUIPMENT SUPPLIED DATA			
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)	
1 1	Telegraph Terminal TH—5/TG Telegraph—Telephone Signal Converter TA—182/U Electrical Filter Assembly F—98/U	7-1/2 X 10-1/2 X 11 7-1/2 X 10-1/2 X 11 6-1/2 X 8-3/4 X 10	18.5 15.0 25.0	

TERMINAL, TELEGRAPH

AN/TCC-20A

FUNCTIONAL DESCRIPTION

The AN/TCC-20A comprises the equipment required at one end of a circuit to provide up to 4 two way telegraph channels on any 2wire or 4-wire voice frequency or carrier telephone circuits.

No field changes in effect at time of preparation (15 May 1957).

RELATION TO OTHER EQUIPMENT

Functionally Interchangeable with AN/TCC-20 except for components.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

MULTIPLEXING TYPE: Frequency division.

NUMBER OF CHANNELS: 4.

FREQUENCY RANGE: 425 to 1615 cps.

CHANNEL SPACING: 170 cycles. SPEED: 100 words per minute.

LINE TERMINATION: 2 or 4 wire.

LOOP ACTUATION: DC.

OPERATION: Neutral full duplex.

SELECTION: Switch type.

POWER SOURCE REQUIRED: 115 or 230 v, 50 to

60 cps, single ph.

MANUFACTURER'S OR CONTRACTOR'S DATA

Contract 26578-PH-52.

TUBE AND/OR CRYSTAL COMPLEMENT

Tubes and Crystals: Not Available.

REFERENCE DATA AND LITERATURE

Nomenclature Card for Terminal, Telegraph AN/ TCC-20A dated 7 June 1956.

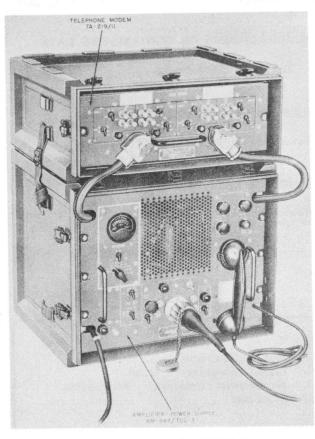
TYPE CLASSIFICATION

DESIGN COGNIZANCE

PROCUREMENT COGNIZANCE MIL-T-10568

STOCK NO.

	EQUIPMENT SUPPL	LIED DATA	Salara Caragas
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OYERALL DIMENSIONS WEIG	
1	Telegraph Modem Assembly TH-26/T	The second secon	



Telephone Terminal AN/TCC-3

FUNCTIONAL DESCRIPTION

UNCLASSIFIED

The AN/TCC-3 is a four-channel carrier telephone terminal whose primary purpose is to provide either four channels for telephone communication or one channel for the transmission and reception of wide-band signals such as high-speed facsimile or data transmission.

When used as a four-channel carrier telephone terminal an order wire, voice-frequency telephone maintenance, is also provided. Intelligence can be transmitted over loaded spiral-four cable for a distance of 25 miles when used without Telephone Repeater AN/TCC-5, and over a distance of 100 miles when used in conjunction with Telephone Repeater AN/ TCC-5.

The AN/TCC-3 transmits over a frequency range of 300 to 19700 cycles per second, and it can be used alone or in conjunction with other equipment to form various communication

Topographical or other considerations may require the use of radio links between two Telephone Terminals AN/TCC-3 to complete a system. These links may consist of any one of various equipments such as Radio Sets AN/TRC-24 and AN/GRC-10. If modified Radio Sets AN/TRC-1 and AN/TRC-8 may be used.

It has self-contained test facilities capable of coordination with other standard test facilities.

No field changes in effect at time of preparation (8 November 1956).

RELATION TO OTHER EQUIPMENT

The AN/TCC-3 is the main components of

the AN/TCC-23.

Equipment Required but not Supplied: (1) Clamp TM-106, (1) Ground Rod MX-148/G, (1) Telephone Cable Assembly CX-1512/U, (1) Telephone Signal Converter TA-182/U for each communication channel, (2) 5DB Pads for each through-channel when two AN/TCC-3 systems are connected in tandem, Test Equipment as

Following Additional Required for Connecting to Open-Wire Lines: (4) Connector, (1) Ring PF-74, (2) Protector AR-6, (1) Ground Rod MX-148/G, (1) Telephone Cable Assembly CX-1512/U, (1) Telephone Cable Assembly CX-1606/G, No. 22 AWG Wire and No. 12B and S

gage Single Conductor Wire.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

CARRIER FREQUENCIES

CHANNEL 1: 8 kc ±0.01%.

12 kc $\pm 0.01\%$. CHANNEL 2:

16 kc ±0.01%. CHANNEL 3:

CHANNEL 4: 20 kc ±0.01%.

FREQUENCY BANDS

ORDER WIRE: 300 to 3100 cps.

CHANNEL 1: 4500 to 7700 cps.

8500 to 11700 cps. CHANNEL 2:

12500 to 15700 cps. CHANNEL 3:

CHANNEL 4: 16500 to 19700 cps.
ORDER WIRE SIGNALING FREQUENCY: 1600 cps.

SYSTEM ALARM SIGNAL FREQUENCY: 4000 cps. TYPE MODULATION: Amplitude, single side-

band suppressed carrier.

POWER AT O-DB LEVEL POINTS (1000 CPS TEST SIGNAL)

2 W BINDING POSTS

VOICE: O dbm.

16 CHANNEL TELEGRAPH TERMINAL:

SPECIAL SERVICE TR BINDING POSTS

FACSIMILE EQUIPMENT: O dbm or -3 dbm depending on type of facsimile

equipment.
OTHER SPECIAL SERVICE EQUIPMENT: O

dbm.

OPERATING LEVELS

VF SIDE

INPUT (2 WIRE): O db.

OUTPUT (2 WIRE): -3 db.

INPUT (4 WIRE): -4 db.

OUTPUT (4 WIRE): +1 db.

AN/TCC-3

TELEPHONE TERMINAL

TRANSMITTING INTO LINE

NORMAL LINE SECTION: 0 db.

LONG LINE SECTION: +10 db.

SYSTEM PERFORMANCE

NOISE ON CHANNELS (100 MILE SYSTEM): 32 dba at O db level except during periods of heavy static or with strong power exposures (decibels adjusted, as measured by Transmission Measuring Set TS-559/FT).

FAR-END CROSSTALK LOSS: Expected to exceed 50 db between output of disturbing channel and output of disturbed channel.

NEAR-END (ECHO) CROSSTALK LOSS: Expected to exceed 25 db.

POWER REQUIREMENTS: 115 or 230 v $\pm 10\%$, 50 to 65 cps, single ph, 125 W.

MANUFACTURER'S OR CONTRACTOR'S DATA

Contract DA-36-039-SC-893, MIPR800-19408-51.

Contract EN24/75009 (57).

Approximate Cost: \$11000.00 with equipment spares.

TUBE AND/OR CRYSTAL COMPLEMENT

(1) 6627/OB2WA

(3) 6X4WA

(3) 5670

(11) 5654/6AK5W

(2) 6005/6AQ5W

Total Tubes: (20)

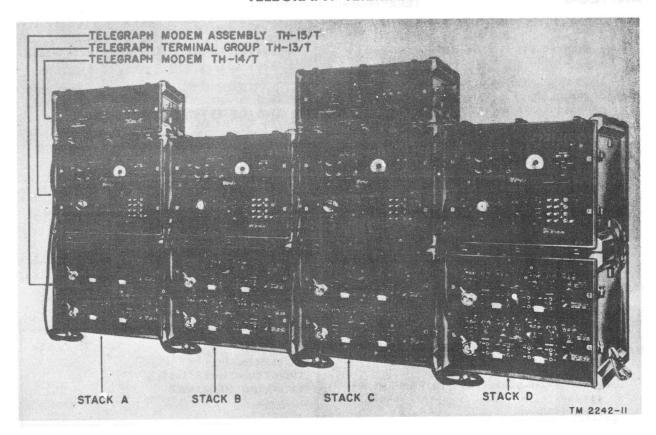
REFERENCE DATA AND LITERATURE

TM11-2142: Technical Manual for Telephone Terminal AN/TCC-3 and Telephone Terminal AN/TCC-23.

TYPE CLASSIFICATION
DESIGN COGNIZANCE TASSA
PROCUREMENT COGNIZANCE
STOCK NO.

SHIPPING DATA				
NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Telephone Modem TA-219/U	5.6	15 X 25 X 26	122
1	Amplifier-Power Supply AM-682/TCC-3	8.2	22 X 25 X 26	174

	EQUIPMENT SUPPLIED DATA			
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)	
1	Telephone Terminal AN/TCC-3 consisting of: (1) Telephone Modem TA-219/U (1) Amplifier-Power Supply AM-682/TCC-3	9-1/8 X 18-1/16 X 20-5/8 17-1/16 X 18-1/16 X 20-5/8	73 103	



Telegraph Terminal AN/TCC-4

FUNCTIONAL DESCRIPTION

The AN/TCC-4 provides high-speed, frequency-shift, carrier telegraph communication within the voice frequency band of 300 to 3100 cycles-per-second over two-wire or four-wire circuits.

The AN/TCC-4 consists of three types of component units, the total number of component units used for a specific terminal arrangement depends on the number of channels desired and whether the system is to be operated over a two-wire or four-wire line.

The AN/TCC-4 may be used in point-topoint systems, trunk circuit systems, telegraph-through-carrier-telephone channel systems, and telegraph-through-radio-link

No field changes in effect at time of preparation (31 October 1956).

RELATION TO OTHER EQUIPMENT

Same as AN/TCC-20 except that the AN/TCC-20 does not include the Telegraph Modem TH-14/T which contains a group-modulator-demodulator circuit and a source of standard test frequencies.

Equipment Required but not Supplied: Teletypewriters as required for monitoring at each terminal, (1) Telegraph Terminal TH-5/TG, (1) Tool Set TE-123, (1) Tube Puller TL-201, Test Equipment as Required.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

NUMBER OF CHANNELS: 4, 8 or 16. TERMINAL DATA (LINE SIDE)

TYPE MODULATION: Frequency shift.

TYPE TERMINATION: 2-wire or 4-wire (by switching).

TERMINAL IMPEDANCE: 600 ohms.

OUTPUT LEVEL (MAX): O dbm, adjustable in 3 db steps from 0 to -24 dbm per channel.

RECEIVING SENSITIVITY: -25 dbm nom, adjustable in 3 db steps over 24 db range.

LINE NOISE: 1 to 1 min signal-plus-noise to noise ration.

FILTER ATTENUATION: 40 db to adjacent channels.

TELEGRAPH TRANSMISSION SPEED: 100 wpm max.

FREQUENCY RANGE DATA

MEAN FREQUENCIES: 425 to 2975 cps

TELEGRAPH TERMINAL

spaced at 170 cps intervals (with TH-14/T), 425 to 1615 cps spaced at 170 cps intervals (without TH-14/T).

MARK AND SPACE DEVIATIONS: +42.5 and -42.5 cps respectively for each channel (with and w/o TH-14/T).

EAN FREQUE		OUENCIES (CPS)
CHANNEL	OUTPUT OF TH-15/T	OUTPUT AFTER GROUP MODULATION WITH TH-14/T
1	425 595	2975 2805
2	765 935	2635 2465
3	1105 1275	2295 2125
4	1445	1955 1785

LOOP CIRCUITS DATA

TYPE TRANSMISSION: Frequency-shift or DC telegraph.

FREQUENCY RANGE (VF LOOPS): 1325 cps

mark and 1225 cps space.
TERMINAL IMPEDANCE (VF LOOPS): 600 ohms ±10% for 1000 to 1600 cps range, 1500 to 2500 ohms at 20 cps.

RECEIVING SENSITIVITY TO SIGNALS FROM VF LOOP: 0 dbm to -40 dbm channel is automatically held in mark (standby) condition.

OUTPUT LEVEL: O dbm ±2 db to VF loop. LOOP CIRCUIT ARRANGEMENTS: VF 2-wire, VF-4 -wire, DC 4-wire or DC tandem selected by switching.

TYPE OF LOOP OPERATION

VF TWO-WIRE: One-way reversibel (half duplex).

VF FOUR-WIRE: Full duplex.

DC FOUR-WIRE: Neutral full duplex, +20 ma mark current (0 space current) supplied by terminal.

DC TANDEM: Neutral full space, +50 mark, O space voltage (20 ma mark, O space current) supplied by receiving terminal.

POWER REQUIREMENTS: 115 or 230 v, 50 to 60 cps, single phase, 240 W (four channel stack).

TEST FACILITIES

METERING: Meter and test switches provided for measurements of loop and line levels, AC and DC signal bias, DC voltage supply.

TEST SIGNAL SOURCE: Crystal controlled 20.4 kc ±2.5 cps and 85 ±0.01 cps frequency standards.

SIGNALING AND RINGING

RINGING (VE LOOP CIRCUITS): 115 v, 20 cps from terminal to loop, 16 v, 20 cps min from loop to terminal.

SIGNALING (LINE CIRCUIT): Channel space frequency operated 1 sec min.

BREAK-IN (ONE-WAY REVERSIBLE CHANNELS): Channel space frequency operated 3 sec min.

TUBE AND/OR CRYSTAL COMPLEMENT

(1) OA3	(2)	5R4WGY	(1)	6 AU6
(2) 6X4W	(2)	5814	(2)	6080
Total Tubes:	(10)			
TH-14/T				
(1) 12AX7	(2)	5751	(3)	581A
Total Tubes:	(6)			
TH-15/T				
(8) 5751	(52)	5814		
Total Tubes:	(60)			

TH-13/T

TH-13/T

(4) 1N69 Total Crystals: (4)

TH-14/T (4) 1N69 (1) HC-13

Total Crystals: (5)

REFERENCE DATA AND LITERATURE

TM11-2242/TO31W4-2TCC-1: Technical Manual for Telegraph Terminal AN/TCC-4 and Telegraph Terminal AN/TCC-20.

TYPE CLASSIFICATION
DESIGN COGNIZANCE TASSA
PROCUREMENT COGNIZANCE
STOCK NO.

	SHIPPING DATA				
NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)	
	QUANTITIES AS REQUIRED PER INSTALLATION Telegraph Modem Assembly TH-15/T including: (1) Telegraph Terminal Group TH-13/T (1) Set of Running Spare Parts (1) Technical Manual TM11-2242	10.2	21-5/8 X 22 X 36-7/8	215	

TELEGRAPH TERMINAL

AN/TCC-4

SHIPPING DATA					
NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)	
	(2) Patch Cord		eff one has detailed and		
	(1) Set of Circuit Labels and Operating Instructions	11 11			
	Telegraph Modem TH-14/T	2.3	10-1/8 X 21-3/4 X 22-1/8	65	

79 E L	EQUIPMENT SUPPLIED D	DATA	S
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGH (lbs.)
	4 CHANNEL (2 AND 4 WIRE)	1	1
1	Telegraph Modem Assembly TH-15/T	16-7/8 X 18-1/8 X 20-5/8	82
1	Telegraph Terminal Group TH-13/T	16-7/8 X 18-1/8 X 20-5/8	104
2	Patch Cord	72 1g	11/17/1
1	Technical Manual TM11-2242	7/8 X 7-7/8 X 10-1/4	
1	Set of Circuit Labels and Operating Instructions	No. 1	1
1	Set of Running Spare Parts 8 CHANNEL (2 AND 4 WIRE)		
2	Telegraph Modem Assembly TH-15/T	16-7/8 X 18-1/8 X 20-5/8	82
2	Telegraph Terminal Group TH-13/T	16-7/8 X 18-1/8 X 20-5/8	104
1 *	Telegraph Modem TH-14/T	9 X 18-1/8 X 20-5/8	49
4	Patch Cord	72 19	49
2	Technical Manual TM11-2242	7/8 X 7-7/8 X 10-1/4	
2	Set of Circuit and Operating Instructions	776 X 7776 X 25 27 4	- * × ·
2	Set of Running Spare Parts		
-	16 CHANNEL (4 WIRE)	Section Section 2	
4	Telegraph Modem Assembly TH-15/T	16-7/8 X 18-1/8 X 20-5/8	82
4	Telegraph Terminal Group TH-13/T	16-7/8 X 18-1/8 X 20-5/8	104
2	Telegraph Modem TH-14/T	9 X 18-1/8 X 20-5/8	49
8	Patch Cord	72 1g	
4	Technical Manual TM11-2242	7/8 X 7-7/8 X 10-1/4	
4	Set of Circuit Labels and Operating Instructions	40.00	1 180
1	Set of Running Spare Parts		
	* Supplied with 2-wire system only.		

28 June 1962

Cog Service: TASSA FSN: TERMINAL, TELEGRAPH AN/TCC-4A

Functional Class:

USA

USN

USAF

TYPE CLASS:

Used by

Used by

MANUFACTURER'S NAME/CODE NUMBER: Federal Telephone & Radio Co., (21964).

(No Illustration Available)

FUNCTIONAL DESCRIPTION:

The Terminal, Telegraph AN/TCC-4A comprises the equipment required at one end of a circuit to provide up to 8 two-way telegraph channels on any 2-wire or 4-wire voice frequency or carrier telephone circuits.

No field changes in effect at time of preparation (11 January 1962).

TECHNICAL CHARACTERISTICS:

TYPE OF MULTIPLEXING: Frequency division type.

NUMBER OF CHANNELS: 8.

FREQUENCY RANGE: 425 to 2975 cycles.

CHANNEL SPACING: 170 cycles.

SPEED: 100 words per minute (WPM).

TERMINATIONS: 2 or 4-wire line. LOOP DATA: DC actuated, neutral full duplex operation, switch selection; AC actuated, half

duplex (in 2-wire), full duplex (in 4-wire) operation, switch selection.

OPERATING POWER RQMT: 115 or 230 v ac, 50 to 60 cps, single ph.

RELATION TO OTHER EQUIPMENT:

The AN/TCC-4A is functionally interchangeable with AN/TCC-4 except for components supplied.

EQUIPMENT REQUIRED BUT NOT SUPPLIED: None.

MAJOR COMPONENTS

		MAJOR COMPONENTS		
QTY	ITEM	STOCK NUMBERS	DIMENSIONS (INCHES)	WEIGHT (LBS)
1	Terminal, Telegraph AN/TCC-4A consists of:		9 x 18-1/8 x 20-5/8	
1 2	Modern, Telegraph TH-25/T Modern, Telegraph TH-26/T		16-7/8 × 18-1/8 × 20-5/8	

REFERENCE DATA AND LITERATURE:

TM11-5805-250-35, TO 31W1-2TCC-182: Technical Manual for Terminal, Telegraph AN/TCC-4, AN/TCC-4A and AN/TCC-20.

AN/TCC-4A TERMINAL, TELEGRAPH

TUBE, CRYSTAL AND/OR SEMI-CONDUCTOR DATA:

TUBES: (1) 6A6WA (1) 6X4W (4) 12AU7 (3) 12AX7 (1) 5751 (1) 6080

CRYSTALS: None used.

SEMI-CONDUCTORS: None used.

SHIPPING DATA

PKGS

VOLUME (CU FT)

WEIGHT (LBS)

PROCUREMENT DATA

PROCURING SERVICE: TASSA

SPEC &/OR DWG: MIL-F-10568

DESIGN COG: TASSA

CONTRACTOR

LOCATION

APPROX. UNIT COST

Federal Telephone & Radio Clifton, N. J.

26578-PH-52

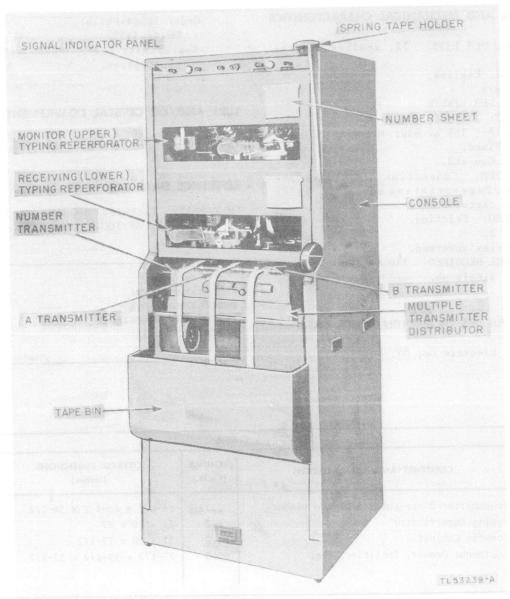
CONTRACT OR

ORDER NO.

Dwg no. A-1006830-1 (Mod)

TELETYPEWRITER SET

AN/TGC-1, AN/TGC-1A



Teletypewriter Set AN/TGC-1, AN/TGC-1A

FUNCTIONAL DESCRIPTION

The AN/TGC-1 and AN/TGC-1A are a complete teletypewriter set designed for use in communications center and tape-relay stations. The equipment includes facilities for sending, receiving, and for monitoring teletype messages on perforated tape on which the message is also typed. A multiple transmitter-distributor is used for sending and two typing reperforators are used for receiving and monitoring. The multiple transmitter-

distributor consists of a number transmitter-distributor unit and two message transmitter-distributor units. The AN/TGC-1 is normally used with Model TC-16 Reperforator teletype-writer sets at relay stations. The following test equipment may be used with the AN/TGC-1: Test Sets I-176, I-193, TS-2/FG, and Distortion Test Set TS-383/GG. Tool Equipment TE-50 is required for maintenance and repair of the AN/TGC-1.

No field changes in effect at time of preparation (28 March 1958).

AN/TGC-1, AN/TGC-1A TELETYPEWRITER SET

ELECTRICAL AND MECHANICAL CHARACTERISTICS

CHARACTERS PER LINE: 72, sending and re-

ceiving.

CHARACTERS: English.

CODE: 5 unit.

OPERATIONS PER MINUTE

AN/TGC-1: 368; 60 wpm.

AN/TGC-1A: 368 or 600; 100 wpm.

STATION: Fixed. KEYBOARD: Com std.

PAGE PRINTER: Connections for teletypewriter. Page-printing equipment using

station circuits.

TYPE OF FEED: Friction.

CHANNELS: 2.

MOTOR: Series governed.

POWER SOURCE REQUIRED: 110 to 120 v, 50 to

60 cps, single ph.

MANUFACTURER'S OR CONTRACTOR'S DATA

Western Electric Co, NY, NY.

Order 18584-Phila. DR-44-3455.

Approximate Cost: \$2580 with equip-

ment spares.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes or Crystals used.

REFERENCE DATA AND LITERATURE

TM11-2203: Technical Manual for Teletypewriter Sets AN/TGC-1 and AN/TGC-1A.

TYPE CLASSIFICATION
DESIGN COGNIZANCE
PROCUREMENT COGNIZANCE
STOCK NO.

SHIPPING DATA				
OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Transmitter Distributor and Tape Winder	8.72	16-1/2 × 26-1/2 × 34-1/2	192
2	Typing Reperforator	8.2	21 × 25 × 27	135
1	Console Cabinet	54.2	31 × 38 × 79-1/2	602
1	Equipment Drawer, Rectifier, etc.	20.0	27-1/2 × 33-1/2 × 37-1/2	240
				1

	EQUIPMENT SUPPLIED DATA				
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)		
1	Cabinet, Console Type (Western Union dwg No 108375—9)	24 × 24 × 65	250		
2	Typing Reperforator w/motor	8-1/2 x 12 x 13	34.25		
1	Multiple Transmitter Distributor w/base and motor	5-3/4 × 15-1/4 × 16-3/4	90		
1	Tape Winder w/motor	6 × 11 × 12	10		
1	Rectifier (Western Union No 54A)	6 × 7 × 15-3/8	35		
1	Signal Indicator Panel	$1-3/4 \times 5 \times 21$	20		
1	Relay Control Unit (Western Union dwg No 108229-9)	14-1/2 × 23-1/8 × 23-3/4			
1	Set Equipment Spares				

TELETYPEWRITER SET

AN/TGC-3

FUNCTIONAL DESCRIPTION

The AN/TGC-3 is a complete teletypewriter set designed for use in communication center and tape-relay stations. The unit includes facilities for sending, receiving, and monitoring teletype messages on perforated tape on which the message also is typed. Sending, receiving, and monitoring facilities are furnished by a multiple transmitter distributor (for sending) and two typing reperforators (for receiving and monitoring).

No field changes in effect at time of preparation (17 July 1958).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

UNIT CODE ARRANGEMENT: 5-unit.

TYPE OF STYLE: Gothic style type pallets.

PAPER SIZE: 11/16 in. W X 8.0 in. dia roll.

MOTOR SPEED: 368 operations per minute.

POWER DISSIPATION: 300 W.

OPERATING POWER ROMT: 95 to 125 v or 190 to
250 v AC, 25 to 60 cps.

TUBE AND/OR CRYSTAL COMPLEMENT

Electron Tube and Crystal data not available.

REFERENCE DATA AND LITERATURE

Nomenclature Card AN/TGC-3 for the Teletypewriter Set.

TYPE CLASSIFICATION

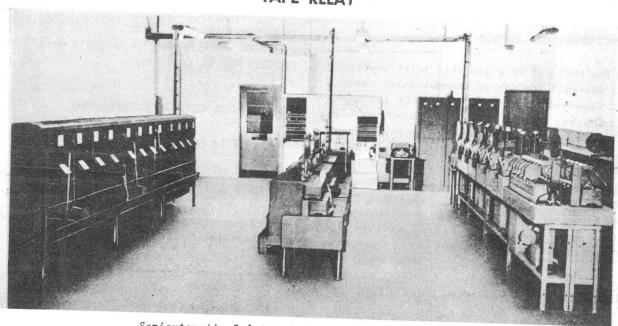
DESIGN COGNIZANCE 0C SIG 0

PROCUREMENT COGNIZANCE

STOCK NO.

SEMIAUTOMATIC TELETYPEWRITER TAPE RELAY

AN/TGC-4



Semiautomatic Teletypewriter Tape Relay AN/TGC-4

FUNCTIONAL DESCRIPTION

The AN/TGC-4 consists of groups of equipment un; 3 installed at signal centers and wired together to form an operating system for the purpose of relaying teletypewriter messages. This type of message relaying system is particularly suitable for the accurate and efficient handling of large amounts of teletypewriter traffic.

Messages received from other signal centers or tributary stations are handled at this equipment in the form of perforated tapes. Reception and transmission are entirely automatic, but operators are needed for routing the messages. Therefore the system is called semiautomatic. Messages received in message blank form are routed to room sending positions, where operators convert them into perforated-tape form for transmission. Some messages are received as perforated tapes and must be converted to page copy for local delivery. These tapes are fed into an automatic transmitter, which operates a page printing teletypewriter at a room receiving position.

The equipment provides facilities for 36 duplex circuits, 12 single line circuits, 24 line finder circuits, or a total of 72 line

circuits and 43 miscellaneous circuits.

No field changes in effect at time of preparation (20 February 1957).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE OF LINE CIRCUITS ACCOMMODATED: 36
duplex circuits; 12 single circuits, 24
line finder lines; total line circuits 72.
SWITCHBOARD JACKS AVAILABLE: 8 line finder
reperforators; 6 spare reperforators; 6
spare bank transmitters; 8 single transmitter distributors; 6 miscellaneous sending circuits; 6 miscellaneous receiving
circuits.

POWER SOURCE REQUIRED: 115 v, 60 cps re-

MANUFACTURER'S OR CONTRACTOR'S DATA

Approximate Cost: \$4000.00 with equipment spares.

gulated and 115 v positive and negative DC.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes.

AN/TGC-4

SEMIAUTOMATIC TELETYPEWRITER TAPE RELAY

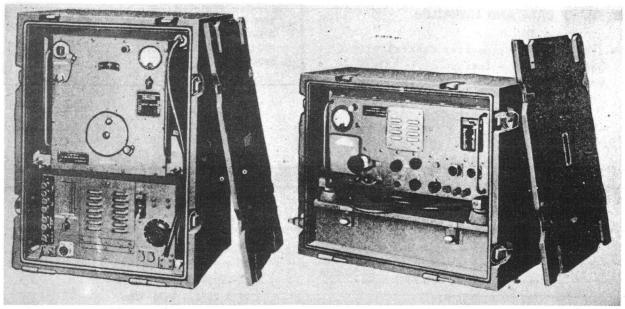
REFERENCE DATA AND LITERATURE

TM11-2212: Teletypewriter Central Office Set - AN/TGC-4 - Semiautomatic Teletypewriter Tape Relay Systems. TYPE CLASSIFICATION
DESIGN COGNIZANCE TASSA
PROCUREMENT COGNIZANCE
STOCK NO.

EQUIPMENT SUPPLIED DATA					
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE		OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)	
1	Line Finder 930-A		17 X 24-1/4 X 83-5/8	291	
. 1	Receiving Frame 1057-A		20 X 20-1/4 X 76-1/8	247-1/2	
8	Receiving Table 940-A, and Trough		28-1/2 X 59-7/8 X 66-1/4	673	
1	Sending Frame 1056-A		20 X 20-1/4 X 76-1/8	190	
8	Sending Table, 910A, with 915-A Tape Basket		38-3/8 X 38-3/4 X 53-1/4	223	
36	Stand-921-A, with Two 920-A chassis		13-1/16 X 54 X 60	147-3/4	
36	Stand - 939-A, with 938-A Chassis		13-1/16 X 51-1/8 X 54	203	
2	Supervisor's Table, 909-A		24 X 27-3/8 X 40	130-1/4	
1	Switchboard 1036-A		20 X 20-1/4 X 76-1/8	230	
1	Switchboard - 1063-A		20 X 20-1/4 X 76-1/8	188	
24	Table, 980-A with Exhauster		24 X 27-3/8 X 60	311	
3	Table, 985-A		20 X 26-5/8 X 30	74	
	Transmitter, Distributor, Multiple		5-5/8 X 7-1/2 X 40-7/8	63	
	Transmitter Distributor, Single		6-1/8 X 7-1/16 X 14-9/32	25-1/2	
	Transmitter Distributor, 1045-A		8 X 9 X 15-1/2	40	
	Typing Reperforator		7-7/8 X 9 X 11-1/4	33-1/2	

RADIO TERMINAL SET

AN/TRC-11



Radio Terminal Set AN/TRC-11

FUNCTIONAL DESCRIPTION

The AN/TRC-11 is designed to provide fourchannel carrier telephone and telegraph service or single-channel point-to-point radio relay service in both directions, simultaneously when continuous operation is required. It is used to extend wire lines where speed of movement prohibits line construction and to bridge water gaps. It is transported by truck or trailer and installed and operated as a fixed field station. Components not in use are running spares supplied to insure uninterrupted service in the case of failure of a basic component.

The Amplifier-Power Supply Group AN/TRA-19 is auxiliary equipment for specific use with Radio Transmitter T-30/TRC-8 used to amplify the nominal power output of the transmitter from 5 to 75 watts, thereby increasing the signal communication reliability of the system. This additional output provides improved transmission over long distances, grazing paths, shadow areas, and other adverse conditions likely to be encountered in the field.

No field changes in effect at time of preparation (25 February 1957).

RELATION TO OTHER EQUIPMENT

The AN/TRC-11 components are identical to the components used in the AN/TRC-8, but the AN/TRC-8 does not provide continuous uninterrupted operation.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

FREQUENCY RANGE: 230 to 250 mc. TYPE MODULATION: FM, \pm 100 kc deviation

(100% modulation).

TRANSMITTER DATA

POWER OUTPUT:

OUTPUT IMPEDANCE: 50 ohms. AUDIO BAND WIDTH: 200 to 20000 cps.

TYPE TRANSMISSION: Voice or multichannel

telephone, telegraph, or facsimile. OPERATING RANGE: 25 to 100 mi.

FREQUENCY CONTROL: Continuously tunable

resonant line.

RECEIVER DATA

TYPE: Single conversion superheterodyne.

INTERMEDIATE FREQUENCY: 28.5 mc.

AUDIO BAND WIDTH: 200 to 20000 cps.

FREQUENCY CONTROL: Tunable resonant line

OUTPUT IMPEDANCE

HIGH FIDELITY: 500 ohms at 200 to 20000

LOW FIDELITY: 4 ohms at 200 to 2500 cps.

POWER OUTPUT(LOW FIDELITY): 0.5 W.

ANTENNA DATA

TYPE: Half-wave dipole with 90 deg corner

reflection.

BEAMWIDTH: 40 deg.

IMPEDANCE: 50 ohms at center of halfwave dipole.

Radio-Communication Terminal Equipment

AN/TRC-11

RADIO TERMINAL SET

POLARIZATION: Horizontal or vertical. AMPLIFIER-POWER SUPPLY GROUP AN/TRA-19

POWER INPUT: 400 W max.

RF DRIVING POWER: 5 W nom, 4 to 10 W variation satisfactory for operation.

POWER OUTPUT: 75 W nom.
BAND WIDTH: Approx 2 mc at 1/2 power level.

TYPE TUNING: Coaxial cavity with nonshorting plunger.

POWER REQUIREMENTS: 115 or 230 v, 50 to 60 cps, approx 400 W for transmitter, 120 W for receiver.

(6) 829B

(2) 6H6

Total Tubes: (44)

REFERENCE DATA AND LITERATURE

TM11-618A: Technical Manual for Radio Sets AN/TRC-8, 8A, and 8B, Radio Terminal Sets AN/TRC-11, 11A, and 11B, Radio Relay Sets AN/TRC-12, 12A, and 12B, and Amplifier-Power Supply Group AN/TRA-19.

TUBE AND/OR CRYSTAL COMPLEMENT

(4) 5R4GY

(16) 6AG5

(2) 9002

(6) 6SN7GT

(2) 6N7

(2) 6V6GT

(2) 5U4G

(2) OD3/VR150

DESIGN COGNIZANCE TASSA PROCUREMENT COGNIZANCE STOCK NO.

TYPE CLASSIFICATION

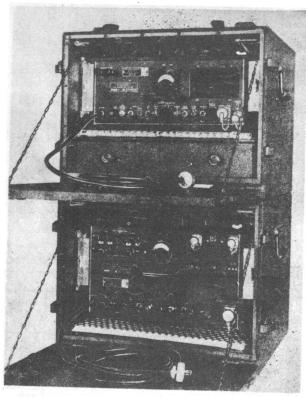
SHIPPING DATA

NUMBER OF	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	PACKET (lbs.)
2 2 2	Radio Receiver R-48/TRC-8 Radio Transmitter T-30/IRC-8 Rectifier Power Unit PP-115/TRC-8 Antenna Support AB-33B/TRC-1 Chest BC-5 including: (2) Technical Manual (1) Set of Cords, Tools, and Hardware (1) Junction Box J-85/G (1) Junction Box JB-110	7.2 7.1 2.32 17.6 9.1	20 X 23 X 27 20 X 21-1/2 X 28-1/2 12 X 18 X 18-1/2 19 X 22 X 73 20 X 23 X 34	178 158 102 139 255
1	(1) Control Box C-21/TRC-1 (1) Test Oscillator TS-237/TRC-8 (1) Dummy Load DA-29/U (2) Handset H-23/U (2) Telephone EE-8-B (a) Antenna Assemblies AS-52/TRC-8	10.9	18 X 28 X 37-1/2	225

EQUIPMENT SUPPLIED DATA WEIGHT OVERALL DIMENSIONS QUANTITY (lbs.) NAME AND NOMENCLATURE (inches) PER EQUIPT 126 16 X 19 X 23 Radio Receiver R-48/TRC-8 16 X 17-1/2 X 24-1/2 135 2 Radio Transmitter T-30/TRC-8 including: 2 Power Pack PP-115/TRC-8 110 14 X 24 X 33-1/2 Antenna Assembly AS-52/TRC-8 325 2 19 X 27 X 36 Power Unit PE-75 205 3 12 X 13 X 70 Antenna Support AB-33B/TRC-8 2 Set of Equipment Spares 1 Group of Accessories

RADIO TERMINAL SET

AN/TRC-3



Radio Terminal Set AN/IRC-3

FUNCTIONAL DESCRIPTION

The AN/TRC-3 is a ground transportable equipment designed to provide a single or multichannel radio-relay system when continuous operation is required. It provides components as running spares which are supplied to insure uninterrupted service in case of failure of a major component.

No field changes in effect at time of preparation (15 February 1957).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TRANSMITTER.

FREQUENCY RANGE: 70.0 to 99.9 mc.

POWER OUTPUT: 50 W max, 10 W on low

power.

FREQUENCY-DEVIATION: ±30 kc max.

TYPE MODULATION: FM, as derived from phase

modulator.

TYPE TRANSMISSION: Voice or multichannel telephone, telegraph, or facsimile.

OPERATING RANGE: 25 to 150 mi.

OUTPUT IMPEDANCE: 50 to 100 ohms into concentric line.

AUDIO RESPONSE

HIGH FIDELITY CHANNEL: ±1 db at 500 to 12000 cps, -3 db at 200 cps.

MICROPHONE CHANNEL: ± 3 db at 250 to 2500 cps, -30 db at 3000 cps and above.

AUDIO INPUT LEVEL: 0 to -12 dbm for 9 kc deviation.

AUDIO INPUT IMPEDANCE

HIGH FIDELITY: 500 ohms.

MICROPHONE: 30 to 50 ohms.

POWER REQUIREMENTS: 115 v, 50 to 60 cps, 250 W.

ANTENNA: Half-wave dipole with director and reflector elements.

RECEIVER DATA

FREQUENCY RANGE: 70.0 to 99.9 mc.

FREQUENCY CONTROL: Crystal.

TYPE RECEIVER: Double superheterodyne.

TYPE MODULATION RECEIVED: FM \pm 30 kc deviation.

INTERMEDIATE FREQUENCY

FIRST IF: 32.5 to 47.5 mc, variable.

SECOND IF: 5.0 mc, fixed.

OUTPUT IMPEDANCE (HIGH FIDELITY): 500 ohms.

OUTPUT LEVEL(500 ohm line): 0 dbm normal, +20 dbm max.

AUDIO RESPONSE

HIGH FIDELITY OUTPUT: $\pm 1 \, db$ at 200 to 12000 cps.

SPEAKER OUTPUT: $\pm 1 \text{ db}$ at 200 to 2500. POWER REQUIREMENTS: 115 v, 50 to 60 cps, 100 W.

ANTENNA: Half-wave dipole with director and reflector elements.

AMPLIFIER DATA

FREQUENCY RANGE: 70 to 100 mc.

POWER OUTPUT: 250 W max.

OUTPUT IMPEDANCE: 50 to 100 ohms into concentric line.

RF POWER INPUT: Approx 25 W.

RF INPUT IMPEDANCE: Approx 70 ohms.

AN/TRC-3

RADIO TERMINAL SET

POWER INPUT

AC: 115 v, 50 to 60 cps, 175 W.

BIAS: -100 v DC.

DC: +450 v, 40 ma, +1900 v, 250 ma.

POWER SUPPLY DATA

POWER OUTPUT

AC: 115 v, 50 to 60 cps, 175 W.

BIAS: -100 ▼ DC.

DC: +450 v, 40 ma, +1900 v, 250 ma.

POWER REQUIREMENTS: -115 v, 50 to 60 cps,

MANUFACTURER'S OR CONTRACTOR'S DATA

Link Radio Corp., New York, New York. Approximate Cost: \$3300.00 with equipment spares.

TUBE AND/OR CRYSTAL COMPLEMENT

(2) 6N7GT

(2) 829B

(4) 816

(14) 6SH7

(10) 6V6GTY

(4) 6SL7WGT

(2) 6X5WGT

(4) 6H6

(2) 6SN7WGTA

(4) 6AC7WA

Total Tubes: (48)

(32) CR-6/U (32) CR-4/U

Total Crystals: (64)

REFERENCE DATA AND LITERATURE

TM11-2601: Technical Manual for Radio Terminal Set AN/TRC-3.

TYPE CLASSIFICATION DESIGN COGNIZANCE TASSA PROCUREMENT COGNIZANCE STOCK NO.

EQUIPMENT SUPPLIED DATA					
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)		
2	Radio Receiver R-19()/TRC-18	8 X 12-3/4 X 19-1/8	43		
2	Radio Transmitter T-14()/TRC-1	10-3/4 X 17-3/4 X 19-1/8	66		
3 "	Antenna System AS-19()/TRC-1 including:	A STATE OF S	0.000 #		
Fig. Lynn	(3) Case CY-29()/TRC-1	13-1/4 X 17-1/2 X 72	380		
0.004	(3) Case CY-30()/TRC-1	13-1/8 X 16 X 33-1/2	90		
4	Power Unit PE-75-()	19-1/2 X 26-1/2 X 36	330		
1	Test Oscillator TS-32()/TRC-1	4 X 4-3/4 X 7	3		
2	Handset H-23/U	ALERT ALCOHOLOGICAL CONTRACTOR AND ADMINISTRATION OF THE PROPERTY OF THE PROPE	1.8		
2	Headset HS-30/U	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.6		
2	Microphone T-45	Law office of the sea of their	0.2		
3	Telephone EE-8-() with TM11-333	3-1/2 X 7-11/16 X 9-9/16	9.7		
2	Junction Box J-85/G	4-1/8 X 4-3/8 X 5-1/2	8		
2	Junction Box JB-110	3 X 5 X 12-1/2	7		
2	Crystal Kit, Receiver	Level and the second se			

RADIO SET

AN/TRC-8

FUNCTIONAL DESCRIPTION

The AN/TRC-8 consists of one or two FM Radio Receivers R-48/TRC-8 (one in use), one or two FM Radio Transmitters T-30/TRC-8 (one in use), one or two Rectifier Power Units PP-115/TRC-8 (one in use), two Antenna Assemblies AS-52/TRC-8, two 50-ft Antenna Supports AB-33B/TRC-1, and an accessory Kit. One or two Power Units PE-75-() are furnished where there is no suitable source of AC power. This equipment is intended for point-to-point or radio-relay application to provide either single or multichannel communication in both directions simultaneously. In general the equipment is used as a connecting link in wire communication networks where the terrain features are such that the laying of wire facilities is not feasible but it may also be used to supplement wire facilities.

No field changes in effect at time of preparation (29 January 1957).

RELATION TO OTHER EQUIPMENT

Basically the same as Radio Terminal Set Series AN/TRC-11 and Radio Relay Set Series AN/TRC-12 except for fewer major components and accessories.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

FREQUENCY RANGE: 230 to 250 mc. RADIO TRANSMITTER T-30/TRC-8.

TYPE: Resonant-line reactance-modulated oscillator, power amplifier tripler.

MODULATION: FM, \pm 100 kc deviation (100% modulation).

POWER OUTPUT: 5W.

OUTPUT IMPEDANCE: 50 ohms.

AUDIO BANDWIDTH: 200 to 20,000 cps.

TYPE OF TRANSMISSION: Voice or multichannel telephone, telegraph or facsimile.

OPERATING RANGE: 25 to 100 mi (line of sight).

FREQUENCY CONTROL: Continuously tunable resonant line.

POWER INPUT: 450 v DC at 350 ma; 6.9 v AC at 8.5 amp.

RECTIFIER POWER UNIT PP-115/TRC-8.

TYPE: Twin full-wave vacuum tube.

POWER OUTPUT (to transmitter): 450 v DC at 350 ma; 6.9 v AC at 8.5 amp.

POWER INPUT: 115 or 230 v, 50 to 60 cps, 400 W (approx).

SPECIAL FEATURES: Cable and connector for connecting to transmitter; motor driven blower; Audio-input circuits of the transmitter including controls and connectors; Carrier control relay.

RADIO RECEIVER R-48/TRC-8

TYPE: Single-conversion superheterodyne. MODULATION RECEIVED: FM, \pm 100 kc deviation

INTERMEDIATE FREQUENCY: 28.5 mc.
AUDIO BAND WIDTH: 200 to 20,000 cps.
FREQUENCY CONTROL: Tunable resonant line.
POWER OUTPUT: 0.5 W.

ANTENNA AS-52/TRC-8

TYPE: Half-wave dipole w/90° corner re-

BEAMWIDTH: 40°.

IMPEDANCE: 50 ohms.

POLARIZATION: Horizontal or vertical.

ANTENNA SUPPORT AB-33B/TRC-1

MAST TYPE: Sectional, steel.

MAX HEIGHT: 50 ft.

NUMBER OF SECTION: 14.

GUYS: 3 sets for full height.

TUBE AND/OR CRYSTAL COMPLEMENT

(8) 6AG5 (1) 6AL5 (1) 9002 (1) 6N7 (3) 6N7GT (1) 6V6GT (1) OD3 (1) 5U4G (1) 6H6 (3) 829B

(2) 5R4GY

Total Tubes: (23)

REFERENCE DATA AND LITERATURE

TM11-618A, T016-30TRC8-6, Technical Manual for Radio Sets AN/TRC-8, -8A, and -8B Radio Terminal Sets AN/TRC-11, -11A, and -11B Radio Relay Sets AN/TRC-12, -12A, and -12B and Amplifier Power Supply Group AN/TRA-19.

TYPE CLASSIFICATION
DESIGN COGNIZANCE
TASSA
PROCUREMENT COGNIZANCE
STOCK NO.

AN/TRC-8

RADIO SET

SHIPPING DATA				
NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Radio Receiver R-48/TRC-8 and Spare Parts Radio Transmitter T-30/TRC-8 and Spare	7.2	20 X 27 X 23	178
	Parts	7.1	20 X 21-1/2 X 28-1/2	158
1	Rectifier Power Unit PP-115/TRC-8	2.32	12 X 18 X 18-1/2	102
1	Antenna Support AB-33B/TRC-1 1 Bag BG-102-A	17.6	19 X 22 X 73	139
	1 Mast Base AB-102/TRC-1	111 4		T a three
	1 Axe LC-1	1 2 1 1	the territorial section of the secti	100
	4 Cases CY-443/TRC-1		and seagons on	
	1 Hammer Handle		1	
1	Chest BC-5	9.1	20 X 23 X 34	255
1 ,	2 Antenna Assemblies AS-52/TRC-8	10.9	18 X 28 X 37-1/2	225

	EQUIPMENT SUPPLIED DATA				
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT		
1	Radio Receiver R-48/TRC-8	17 X 18-1/2 X 22-1/2	69		
1	Radio Transmitter T-30/TRC-8	12-1/4 X 14-1/2 X 14-1/2	47		
1	Rectifier Power Unit PP-115/TRC-8	8 X 14 X 14-1/2	57		
2	Antenna Assembly AS-52/TRC-8	1/2 X 20	57		
2	Antenna Support AB-33B/RRC-1	172 X 20	- 1 was		
1	Accessory Kit	16 X 19 X 30			
	Tool Equipment	10 / 19 / 30	53		

RADIO TELETYPEWRITER SET

AN/TSC-15

FUNCTIONAL DESCRIPTION

The AN/TSC-15 is for general purpose use; it provides communications for aviation and ground units.

No field changes in effect at time of preparation (3 October 1960).

RELATION TO OTHER EQUIPMENT

The AN/TSC-15 is similar to the AN/ARC-58 except it includes one extra Receiver R-761/ARC and teletypewriter equipment mounted in 3/4 ton helicopter hut.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE OF EMISSION: AM, SSB, DSB, CW.

TRANSMITTER DATA

TYPE OF EMISSION

UPPER: AM, SSB.

LOWER: SSB, DSB.

FREQUENCY RANGE: 2 to 30 mc.

NUMBER OF BANDS: 1 band.

NUMBER OF CHANNELS: 28,000.

RECEIVER DATA

TYPE OF EMISSION

UPPER: AM, SSB.

LOWER: SSB, DSB and CW.

FREQUENCY RANGE: 2 to 30 mc.

NUMBER OF BANDS: 1 band. NUMBER OF CHANNELS: 28,000. OPERATING POWER ROMT: 115 v ac, 380 to 420 cps, 3 ph (line to neutral).

MANUFACTURER'S OR CONTRACTOR'S DATA

Collins Radio Co., Cedar Rapids, Iowa. Contract NOm-70500, dated 3 November 1958.

TUBE AND/OR CRYSTAL COMPLEMENT

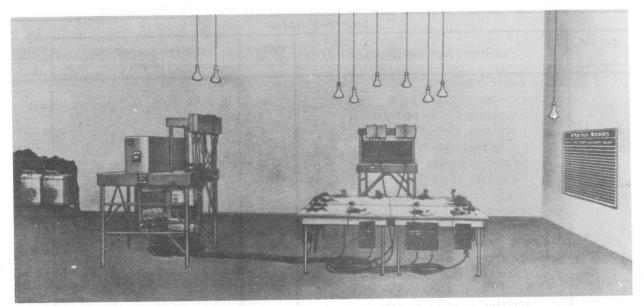
Electron Tube and/or Crystal data not available.

REFERENCE DATA AND LITERATURE

NAVSHIPS 93400: Preliminary Data Form for Radio Teletypewriter Set AN/TSC-15.

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

	EQUIPMENT SUPPLIED DATA				
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)		
1	Radio Teletypewriter Set AN/TSC-15 consists of:				
2	Radio Receiver R-761/ARC-58	7-25/32 × 10-1/4 × 25-3/8	50		
1	Radio Transmitter T-605/ARC-58	4-7/8 x 5-3/4 x 6-9/16	5		
1	Radio_Control Set C-1939/ARC-58	$4-7/8 \times 7-13/16 \times 20-9/16$			
1	Antenna Coupler C-1940/ARC-58	+ 1/0 × 1 1)/10 × 20)/10			
1	Antenna Coupler CU-523/ARC-58	4-13/16 × 5-19/32 × 10-1/16			
1	Vaneaxial Fan HD—277/U	$6-1/8 \times 10-1/4 \times 21-1/4$	1		
1	Mounting MT-1698/U	$5 \times 10^{-1/4} \times 21^{-1/4}$			
1	Mounting MT-1699/U	$2-5/8 \times 4-1/8 \times 22-1/4$	1		
1	Mountling MT-1700/U	$2-1/4 \times 7-5/8 \times 12-9/16$			
1	Converter-Oscillator CV-519/ARC-58		1		
1	Teletypewriter Set AN/GGC-3		1		
1	Teletypewriter Control	3 x 10-1/4 dia	1		
1	Clock TD-15 Fire Extinguisher		1		
1	Shelter 3/4 ton, Craig Model 104		1		
1 1	Helicopter Hut Diesel Generator PU-345/U Mounting MT-1728/U	19-1/2 × 27-5/8 × 38 1 × 8 × 13	21		



Operations Center AN/TTQ-2

FUNCTIONAL DESCRIPTION

The AN/TTQ-2 is a transportable operations room unit assembly which consists of equipment which is used for receiving intelligence concerning activities in an area, for displaying it for quick analysis, and for operational communications. Telephone, power and lighting equipment, furniture and plott-ing material make up this assembly. The equipment collapses into small, light weight units for ease in transportation, and uses multiconductor cable assemblies with plugs and sockets for easy installation. Connections may be made to land lines and various kinds of standard radio sets. The radio sets are not furnished as a part of the equipment.

The Operations Center can be used as an anti-aircraft operations room which serves as the tactical or battle headquarters of an anti-aircraft defense.

The principal functions performed with the AN/TTQ-2 equipment are:

(1) Early warning of aircraft flights, reported by information center via telephone or radio, can be received and plotted on a vertical map board (Known as a situation board). This board has a small scale and covers more area than the operations board. It is not provided with the center but should be made locally.

(2) Aircraft flights, reported by observation posts or radars via telephone or radio can be received and plotted on a large horizontal map board (Known as operations board which consists of four Plotting Tables FN-3/TTQ).

(3) Information involved in the identification of the plotted aircraft flights on

the operations board can be received or transmitted via telephone or radio.

(4) The operating status of all fire units and observation posts can be reported by telephone or radio and such information can be placed on blackboards (status boards).

(5) Operational and administrative functions within the center can be performed over intercommunication lines.

(6) Communication can be maintained by telephone and radio between the center and other military points as may be necessary.

No field changes in effect at time of preparation (7 February 1957).

RELATION TO OTHER EQUIPMENT

Equipment Required but not Supplied: Standard Sig Corp Radio Sets.

TUBE AND/OR CRYSTAL COMPLEMENT

(8) 6V6GT/G

(1) 3Y3GT/G (2) 5Y3GT/G

Total Tubes: (11)

REFERENCE DATA AND LITERATURE

TMl 1-448: Technical Manual for Operations Center AN/TTQ-2.

TYPE CLASSIFICATION DESIGN COGNIZANCE TASSA PROCUREMENT COGNIZANCE STOCK NO.

OPERATION CENTER

	SHIPPING I	DATA		
OF BOXES	CONTENTS AND IDENTIFICATION		OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
2	Cases Number 1 and 2			(103.)
	Case CY-285/TTQ (each) c/o	16	12 X 48 X 48	266
	2 Plotting Tables FN-3/TTQ			200
	2 Platform benches			
	4 Line Units TA-10/TTQ			
	5 Telephone Units TA-9/TTQ	1 4		
	7 Headsets HS-30-U and			
	Chest Sets &-18()/GT			
	8 Mounting Brackets	20.		
2	Cases Number 3 and 4			
	Case CY-283/TTQ (each) c/o	8	12 X 24 X 48	246
	1 Platform	100		240
	1 Platform Table FN-2/TTQ			
	3 Line Units TA-10/TTQ			
	3 Telephone Units TA-9/TTQ		The state of the s	
	3 Hand Telephone Sets			
	8 Çords CX-471/TTQ (35 ft)			1430
1	Case Number 5		1	
	Relay Unit RE-24/TTQ (relay cabinet)C/O	8	12 X 24 X 48	220
	30 Line relay circuits			1220
	8 Radio-Channel control circuits			
	2 audio amplifier circuits		je s	
	20 24-conductor male contact connectors			
1	Case Number 6		92 1	
	Telephone Power Unit			
	SB-26/TTQ (power cabinet) c/o	8	12 X 24 X 48	298
	1 3 amp, 24 v rectifier			270
	1 vacuum tube heater transformer and			
	plate-voltage rectifier			9
	1 Ringer TA-13/TT			
	1 Timing lamp indicator control			
	circuit			
	1 12 cell, 24 v, 40 amp hr storage			
	battery (non-spillable type)			
1	Case number 7 (power cord)	-		11]=
	Case CY-286/TTQ c/o	8	12 X 24 X 48	187
	Power connecting and service cables			107
	Timing Indicator ID-110/TTQ cord			
	Engine coupling box			
	Ground rods and leads			
1	Case Number 8 (lighting equipment)			
	Case CY-287/TTQ c/o	8	12 X 24 X 48	197
	Lighting equipment	,	1 44 A 40	197
-	Cords CX-471/TTQ (6 ft 4 in.)	- 1		1

OPERATION CENTER

	SHIPPING DA	ATA		
NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGH PACKEI (lbs.)
	Radio Adaptors		o'a linemilia	
	1 Timing Indicator ID-110/TTQ		9.400 Lu C	
	1 Status board	874	manura (dan pulituja ca. 🖡	
	1 Telephone Unit TA-9/TTQ	ebalos m	jan das puro enumpalat . "J	
1	Case Number 9	forte	ka v 1717 o o ningan	
	Case CY-288/TTQ (miscellaneous equipment	mada: ugs	begin as an other a deep	
	and supplies) c/o	8	12 X 24 X 48	188
	Paint material		in leasing we no hongonia of	
	Brushes		saction to sale to	
	Ink and Ink Bottles		Z challes I Thate the	
	Chalk () - R P P	5	egul misko, bi hedwak sanii	
	Erasers	ta craefu	es of astfir unterest t	
	Cheesecloth		and the second lower of	
	Plastic Overlays		and the second second	
	Scotch tape			
	Washers	1		1
	Wood Screws	SHARUD		-
	8 Unit mounting details (brackets)			or risk is
1	Case Number 10	BUTAIDME	MOR OF SAR	
1	Case CY-291/TTQ (plotting equipment) c/o	8	12 X 24 X 48	222
	1 Plotting Kit PT-11/TTQ		The state of the s	
	3 Intercept officers' Kits		. इन्हें व्यक्ति वाच्या है हैन है व	
	1 Supplies box (drafting materials)		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	16 Plotters Aprons		. The Art that Amodicalians	
	Drafting Tools (T-square, straight		The West about 1212 M	
	edge, beam compass)		- v 8n cre5 cr-1	
			, was a fill got to see	
1	Case Number 11 Case CY-289/TTQ (tools and maintenance		A 01:214	
		8	12 X 24 X 48	200
	materials Electricians' and Mechanics'		The first of the same many	
			DELYSZE - CO.	12.
	Tool Sets		1 1 1 2-10 C 1-10g	
	Test Box		Tas-action navel to the	1
	Multimeter TS-380/U and leads		724.82 1 × 2 × 31	
	Nails	1	11.182	

8

12 X 24 X 48

Bolts Wire

Case Number 12

Case Number 13

Expendable spare parts (fuses, etc)

Case CY-292/TTQ (spare parts case) c/o

Case CY-307/TTQ clock and miscellaneous

Non-expendable spare parts (relays, resistors, etc.) 3 Telephone Units TA-9/TTQ 208

Radio-Communication Terminal Equipment AN/TTQ-2 OPERATION CENTER

	SHIPPING DATA			
OF BOXES	CONTENTS AND IDENTIFICATION	CONTENTS AND IDENTIFICATION VOLUME		WEIGHT PACKED (lbs.)
	equipment) c/o		1 5 A O	
	2 clocks			
	6 patching cable connectors		1 1 1 1 m. 14 A 1	
	5 Telephone Unit Extension Cords CX-484/TT	Q	ter in the second secon	
	1 Amplifier auxiliary Control		Process (Control	
	Relay Unit RE-8/TTQ-1 and spare parts		the spike of	
	23 Radio Adapter details		A 1 2,1	
	3 Control Units C-199/TTQ		a gradina grada	
	2 copies of TM11-448		Special Vision	
	2 copies of TM11-2042			
1	Case Number 14 (electrolyte case) c/o	2	13 X 14-1/2 X 18	25
	1 Imperial gallon jug of electrolyte			
2	Power Units PE-197	19	22 X 31 X 44	790
2	Cases electrolyte for Power Unit PE-197	1-1/2	13 X 13 X 16	25

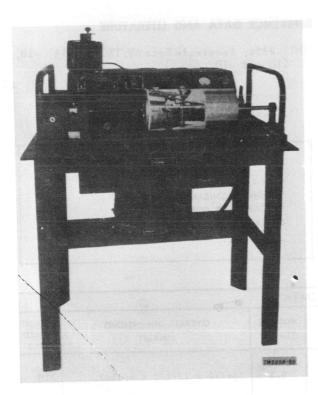
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE		OYERALL DIMENSIONS (inches)	WEIGH	
4	Plotting Tables FN-3/TTQ		28 X 47-3/4 X 47-3/4	_	
4	Platform Benches		12 X 18 X 48		
14	Line Units TA-10/TTQ		4-1/2 X 7-5/8 X 9		
17	Telephone Units TA-9/TTQ		4-1/2 X 7-5/8 X 9		
14	Chest Sets H-18()/GT		177 (2.0		
14	Head Sets HS-30-U		21		
16	Mounting Brackets				
2	Platform		48 X 48 X 48		
2	Platform Tables FN-2/TTQ		12 X 28 X 46		
6	Handsets TS-9-AQ modified to in	ncl plug PL-58	17.00		
16	Cords CX-471/TTQ		35 ft 1g		
1	Relay Unit RE-24/TTQ		12 X 24 X 48	220	
1	Telephone Power Unit SB-26/TTQ		12 X 24 X 48	298	
1	Cord CX-472/TTQ				
1	cord CX-473/TTQ				
2	Cord CX-474/TTQ				
1	cord CX-475/TTQ				
2	cord CX-476/TTQ		A ST NO WAS TO SEE		
2	Cord CX-584/TTQ		. 1		
1	cord CX-487/TTQ		10 ft lg		
1	Cord CX-487/TTQ		20 ft 1g		
2	Cord CX-663/TTQ				
	Cable WC-604, black, No. 8 AWG	st randed	100 ft 1g		
1	Engine Coupling Box		2.74		
2	Ground Clamps, Sherman 18L		The state of the s		

OPERATION CENTER

	EQUIPMENT SUPPLI	DAIA			
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE		OVERALL DIMENSIONS (inches)	WEIGH (lbs.)	
2	Ground Stake Assemblies			1	
6	Cord CX-471/TTQ	6-1/2	ft lg		
10	Cord CX-477/TTQ				
2	Cord CX-478/TTQ				
14	Cord CX-479/TTQ				
14	120W, 120V lamps Wabash Appliance Corp RE-40				
1	Status Board Assembly				
1	Timing Indicator ID-110/TTQ				
2.	One in. wide varnish brushes			-	
2	Four in. wide varnish brushes				
36	Chalk, white				
1	Chalk, assorted colors				
	Cheesecloth	30 in	. w X 6 yd 1g		
	Enamel, lusterless, olive drab				
	Enamel, semigloss, olive drab				
	Enamel, grey	į.			
	Eraser, blackboard felt	2 X 5			
	Ink, waterproof, orange				
	Ink, waterproof, yellow			7	
	Ink, waterproof, blue				
	Ink, waterproof, red				
	Ink, waterproof, green				
	Ink, waterproof, white				
	Ink, waterproof, black				
	Ink Bottles, 3/4 oz complete w/dipper filler				
	Overlay, plastic, no grid	31 X 3	31 X 0.010		
	Overlay, plastic, grid scale 1: 125,000	0.10)	(31 X 31		
	Overlay, plastic grid scale 1: 250,000	0.10)	(31 X 31		
	Overlay, plastic, grid scale 1: 500,000	0.10 X	(31 X 31		
-	Paste, casein, white				
	Paste, casein, deep blue				
	Paste, casein, deep green				
	Screw, wood, round head		-1/4 in.		
	Tape, scotch	50 yd	1g		
	Unit Supports				
	Varnish, clear quick drying (1/2 gal can)				
	Washers, flat, ungalvanized	No. 4			
	Beam, Compass				
	Carpenter's aprons (3 pockets)				
	Cloth, blackboard	45 X 1	48		
	Kit, intercept				
	Plotting Kit PT-11/TTQ			1	
	Square, T				
1	Straight Edge	42 in.	1g	1	

OPERATION CENTER

	EQUIPMENT SUPPLIED DA			
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGH (lbs.)	
2	Brush, flat lettering 1/4 in.			
1	Compass beam			
5	Compass, rose	6 in. dia		
1	Drafting Instruments			
6	Erasers, Art Gum			
30	Pens, Speed Ball Lettering			
60	Pencil, China			
6	Pencil, H drawing			
3	Pen Staffs			
1	Protractor, 10 in. circular			
1	Rule, folding	6 ft.		
1	Ruler	18 in.		
1	Scale, architect's			
1	scale, engineer's			
3	Watches, U.S. Army Spec No. 94-27834-B Class			
	05-A-62-479900	1 m 1		
1	Electrician's tool Kit			
1	Mechanic's tool Kit			
1	Multimeter TS-380/U	_ / 1	3	
2	Clocks			
3	Control Units C-199/TTQ	12		
6	Cord CX-481/TTQ			
5	Cord CX-483/TTQ			
5	Cord CX-484/TTQ			
1	Jack			
5	Junction Box J-103/TTQ			
7	Junction Box J-104/TTQ			
6	Patching Cable Connector			
1	Relay Unit RE-8/TTQ-1			
3	Relays			
2	Technical Manuals TM-11-448			
2	Technical Manuals TM11-2042			
1	Retard Coil			
1	Varistor			
1	Set of Equipment Spares	1		



Facsimile Set AN/TXC-1,-1b

FUNCTIONAL DESCRIPTION

The AN/TXC-1 and AN/TXC-1B are electromechanical-optical facsimile sets of the revolving drum type for the transmission and reception of page copy. They are used for the transmission of maps, photographs, sketches, and printed or handwritten text over regular voice communication channels, either wire or radio, between fixed stations. Although colored copy may be transmitted, the reproduction is always in black and white and intermediate shades of grey. Received copy is recorded either directly on chemically coated paper or photographically in either negative or positive form. The equipment will transmit or receive a page of copy 12 by 18 inches in 20 minutes.

The AN/TXC-1 differs from the AN/TXC-1B in the number of operating controls and certain circuit features.

No field changes in effect at time of preparation (31 March 1958).

RELATION TO OTHER EQUIPMENT

Similar to the AN/TXC-1D, AN/TXC-1E and AN/TXC-1F except that the AN/TXC-1D, -1E and -IF have facilities for half-speed operation and contains one more tube.

ELECTRICAL AND MECHANICAL CHARACTERISTICS

TYPE OF EQUIPMENT: Rotating drum type. FUNCTIONS: Transmitting or receiving signals.

TYPE OF COPY: Page.

MAX SIZE OF COPY: 12 x 18-11/16 inches.

SIZE OF SCANNING STOP: 1/96 inch.

TYPE OF RECORDING: Direct or photographic, positive of negative.

DRUM DATA DIAMETER: 6 in.

ROTATION: 1 rpm. LATERAL MOVEMENT: 12 in. in 20 minutes. SCANNING LINES PER INCH: 96.

INDEX OF COOPERATION: 576. AUDIO FREQUENCY (CARRIER): 1800 cps.

TYPE OF MODULATION: AM. FREQUENCY BANDWIDTH: 1800 cps max.

FREQUENCY BAND LIMITS: 900 to 2700 cps.

DRUM SPEED CONTROL: Synchronous motor controlled by 1800 cps fork oscillator, or 900 cps multivibrator (or external audio source).

SIGNAL LEVERS INPUT (FOR RECEPTION): -45 to 0 dbm. OUTPUT (FOR TRANSMISSION): 0 to +26 dbm.

RECTIFIER POWER UNIT PP-86/TXC-1

INPUT REQUIREMENTS POWER SOURCE: 100 to 130 v, 50 to 65 cps, 250 W at 115 v.

SIGNAL SOURCE: 1800 cps from fork oscillator.

OUTPUT UNREGULATED PLATE SUPPLY: 450 v at 270

FILAMENT SUPPLY: 6.5 v, AC at 6.25 ampperes.

START MOTOR SUPPLY: 115 v AC at 0.5

amp. EXCITOR LAMP SUPPLY: Regulated 6 v, 1800 cps at 2.74 amperes ± 0.1 v. DUST REMOVAL BLOWER: 115 v, 60 cps, 3 amps.

MANUFACTURER'S OR CONTRACTOR'S DATA

Times Telephoto; Sig Corps Order No. 4221-Phila-47-77 dated 26 Sep 1946 (AN/TXC-

Approximate Cost: \$3000.00 with equipment spares (AN/TXC-1B).

TUBE AND/OR CRYSTAL COMPLEMENT

AN/TXC-1

(3) 7N7 (1) 1B46 (1) 5Z3 (1) 1645(1) 1B47 (3) 6AC5GT

AN/TXC-1,-1B

FACSIMILE SET

(6)	7C5	(1)	7C7	REFERENCE DATA AND LITERATURE
/	7S7	(1)		and the second second
(1)	1B59R1130B	(1)	1635	TM11-2258; Facsimile Sets AN/TXC-1, -1A, -1B,
(2)	5651WA	(1)	5879	-1C and -1D.
		(5)	717	

Total Tubes: (29)

AN/TXC-1B

(1)	1B59R1130	В	(1)	7C7	
(2)	5651WA		(1)	884	
(3)	7N7		(1)	5Z3	
(3)	1635		(5)	7L7	
(6)	7C5		(1)	757	

Total Tubes: (25)

Crystal data not available.

TYPE CLASSIFICATION

DESIGN COGNIZANCE TASSA

PROCUREMENT COGNIZANCE

STOCK NO.

SHIPPING DATA				
OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Facsimile Transceiver TT-1/TXC-1* or TT-1B/TXC-1** Rectifier Power Unit PP-86/TXC-1	8.1	15-1/2 × 22-1/2 × 40-1/2	218
1	and spare parts Photographic Equipment PH-549/TXC-1 Table MT-252/TXC-1	2.3 15.6 11.5	15 × 15-1/4 × 17-1/2 26 × 26 × 40 26 × 40 × 41	89 339 137

(1) 1645

NOTES: *Supplied w/AN/TXC-1 only.
**Supplied w/AN/TXC-1B only.

	EQUIPMENT SUPPLIED DATA				
QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)		
1 1 1 1 1	Facsimile Transceiver TT-1/TXC-1* Facsimile Transceiver TT-1B/TXC-1** Rectifier Power Unit PP-86/TXC-1 Loudspeaker LS-11** Table MT-252/TXC-1 Photographic Equipment and Accessories	10-3/4 × 17-5/8 × 34-5/8 10-3/4 × 17-5/8 × 34-5/8 9 × 10 × 12 2 × 4 × 4 22 × 32 × 37	85 85 48 86		

NOTES *Supplied w/AN/TXC-1 only.
**Supplied w/AN/TXC-1B only.