TYPE TAJ

SUMMARY OF DATA

PURPOSE

A general purpose medium power (500 watts C.W. 250 watts M.C.W.) M.F. A.M. transmitter for communication between ship/ship, ship/shore, ship/air. It is fitted as one of the main transmitters in certain ships but is being super-seded by Type 604.

TYPE OF TRANSMISSION

C.W. and M.C.W.

FREQUENCY RANGE

175 to 6000 kc/s.

MAJOR UNITS

Type TAJ is an American set with several different type numbers which are generally similar but differ in detail.

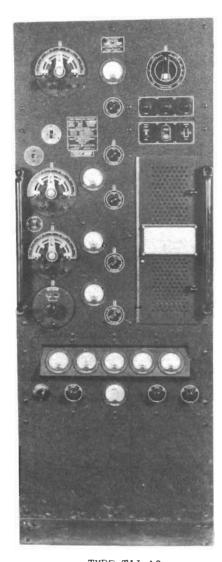
U.S. Navy Ref. No.	Description	No. off									
		TAJ 8 115 V	TAJ 8 230V	TAJ 10 115V	TAJ 11 230V	TAJ 11 115V	TAJ 11 230V	TAJ 14, 15, 16, 18, 19 115V	TAJ 14, 15, 16, 18, 19 230V		
CRR52142	Radio Transmitter	1	1	_	-	_	_	-			
CG52167	Radio Transmitter	_	-	1	1	_	-	-			
CG52240	Radio Transmitter	-	-	-	-	1	1	1 1	1		
CG21466	Motor Generator Set	1	-	-	-	-	-	-			
CG21467	Motor Generator Set	-	1	- .	-	-	-	-			
CG21569	Motor Generator Set] -	-	1	-	-	-	- 9	1000		
0021570	Motor Generator Set	-	-	-	1	-	-	-			
CG21756	Motor Generator Set	-	_	-	-	1	-	-	•		
C021757	Motor Generator Set	-	-	-	-	-	1	-			
C021759A	Motor Generator Set	-	-	-	-	-	-	1	-		
CG21760A	Motor Generator Set	-	-	-	-	-	-	•	1		
CC21457	Magnetic Controller	1	-	-	-	-	-	-	-		
CG21458	Magnetic Controller	-	1	-	-	_	-	-	-		
CA021567	Magnetic Controller	-	-	1	-	-	-	-			
CA021568	Magnetic Controller	-	-	_	1	-	-	-	-		
CA021752	Magnetic Controller	-	_	-	-	1	-		-		
CA021753	Magnetic Controller	-	-	-	-	-	1	• 1	-		
CA021752A	Magnetic Controller	-	-	-	-	-	-	1	-		
CA021753A	Magnetic Controller	-	-	-	-	-	-		1		
		1	1								

PHYSICAL DATA

		Height	Width	Depth	Weight	
Transmitter Hotor Generator Set Hotor Generator Set Hagnetic Controller Hagnetic Controller	CG52240 CG21759A CG21760A CA021752A CA021753A	# 61 13# 233# 233# 25# 23#	2: 3: 6: 41: 6: 41: 148:	2" 01" 181" 181" 131"	580 1b 950 1b 960 1b 75 1b	

^{7. 14.} with Aerial Trunk and resilient mounts.

The above data is typical only and is for Type TAJI4.



TYPE TAJ 10

BRIEF TECHNICAL DESCRIPTION

Frequency

175 - 600 kc/s.

Frequency Control

Master Oscillator.

Output

450 watts C.W. 250 watts M.C.W.

Keying

100 words per minute on C.W. 50 words per minute on M.C.W.

The circuit consists of a master oscillator intermediate amplifier and power amplifier. For M.C.W. an oscillator provides 800 c/s tone which is used to modulate the intermediate stage in the anode circuit. The motor generator set supplied provides the necessary voltages for the transmitter. The magnetic controller contains the starter for the motor generator.

CONTROL CIRCUITS

Type TAJ may be adapted to work with Control Outfits KHA or KCH series.

POWER REQUIREMENTS AND CONSUMPTION

220V D.C. at 3 kW or 110V D.C. at 3 kW

Sets with nominal voltage ratings of 230V and 115V are used in 220V and 110V ships respectively.

AERIAL SYSTEM

Ships main roof aerial.

REMARKS

The associated Wavemeter Outfit is GJ or GN.

HANDBOOK

U.S. Navy

ESTABLISHMENT LIST

E.638

INSTALLATION SPECIFICATION

B.468