

*Class 23—Control Panels and Control Units*

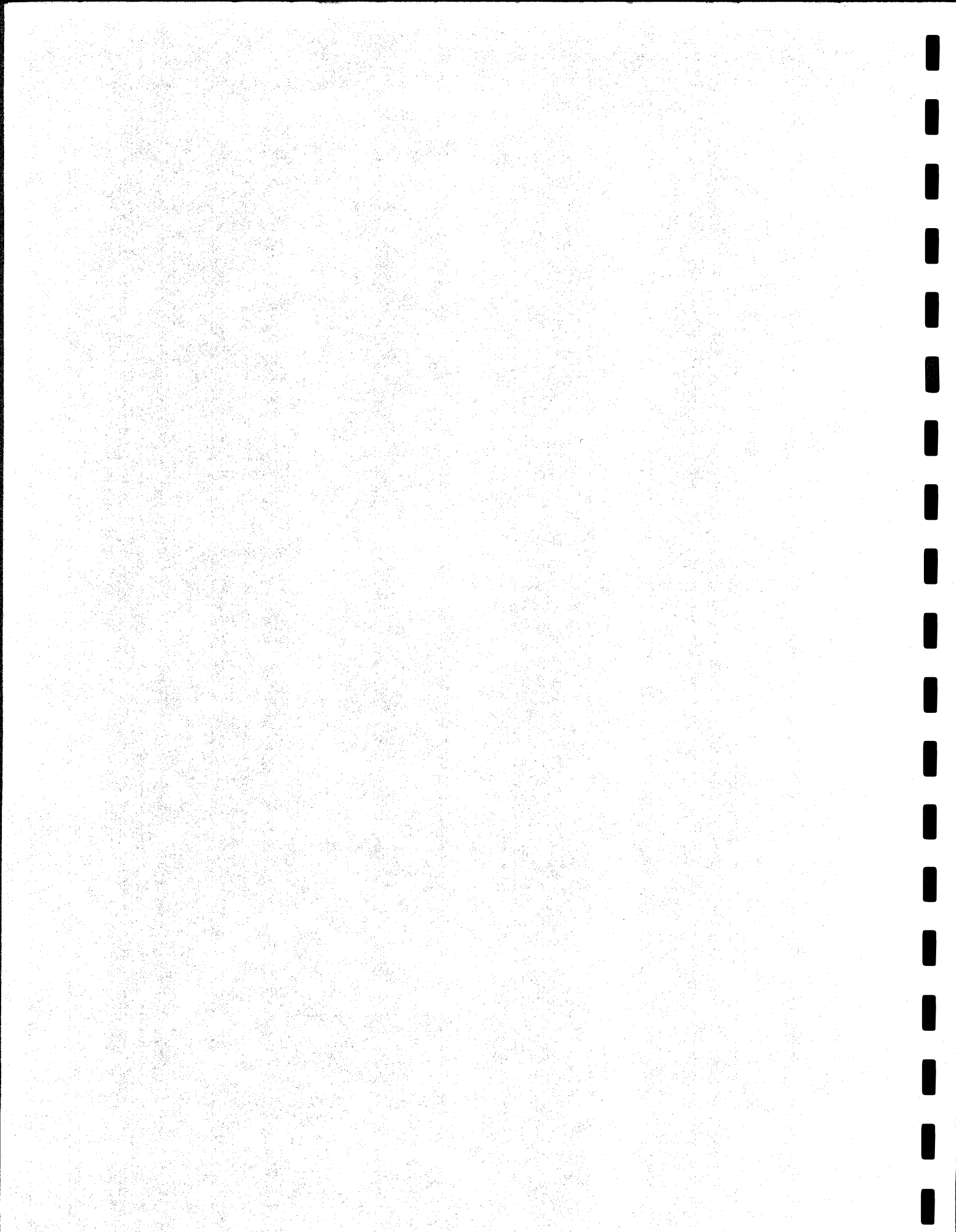
**CLASS 23  
CONTROL PANELS AND CONTROL UNITS**

**INCLUDES: SWITCHBOARDS, PLUGBOARDS,  
DISTRIBUTION PANELS, CONTROL  
PANELS, CONTROL BOXES, REMOTE  
CONTROL UNITS**

**NOTE: MOTOR CONTROLLERS UNDER CLASS 21  
JUNCTION BOXES UNDER CLASS 62.**

**CONFIDENTIAL**

**NAVSHIPS 900,109**



Class 23—Control Panels and Control Units

3.23-1

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CBA 23000	RU-1		RW-23006	GL		CBY 23012-A	RU-2a	
JUNCTION BOX			CONTROL PANEL			REMOTE TUNING CONTROL-		
			FIELD RHEOSTAT. FIELD SWITCH - CAPACITORS.			RECEIVER. SAME AS 23012 EXCEPT DIAL CALIBRATED FOR FREQUENCY.		
12/21/31			4/1/32			NOV. 41		
NOV. 41			NOV. 41					
CBA 23001	RU-1		CG-23007	TBC		CBY 23013	RU-2	
SWITCH BOX			PANEL			CONTROL BOX-RECEIVER		
FOR VOLUME CONTROL.			FOR MOTOR-GENERATOR SWITCHING.			CONSISTS OF "AUTOMATIC-OFF-MANUAL" SWITCH AND VOLUME CONTROL.		
12/21/31			3/17/32	RT-149-A	P-7760240	5/11/32		
NOV. 41			NOV. 41			NOV. 41		
CG-23002	TBC		CN-23008	GM		CAY 23014	GK-1	XA-8325
PANEL			CONTROL BOX			POWER TRANSFER CONTROL		
CONTACTOR			CONSISTS OF CONTROL SWITCH, REMOTE READING AMMETER, INDICATOR LAMP FOR POWER SUPPLY AND KEY.			PANEL. (SEE BU. AERO. CONTRACT NOD-129 WITH GOODYEAR ZEPPELIN).		
12/29/31		T-7652431	3/22/32			6/27/32		
NOV. 41		DL-7550820-G-3	NOV. 41			NOV. 41		
CBM 23003	KD-1		23009	GENERAL USE	RE 23F 191	23015	GENERAL USE	RN 7F 396E
CONTROL CABINET			CONTROL PANEL - PLUG			PANEL - RECEIVER EXTENSION		
			TRANSMITTER CONTROL, USING COMMERCIAL PLUGS AND RECEPTACLES.			USES TYPE -49021 JACKS - NUMBER OF JACKS VARY WITH REQUIREMENTS. (SUPERSEDED BY 23034).		
12/31/31			4/21/32			7/26/32		(2458)
NOV. 41			NOV. 41			NOV. 41		
CBM 23004	KE-2		CBY 23010	GF		CG-23016	TBA-1	
CONTROL CABINET			CONTROL BOX - TRANSMITTER			SWITCH - TRANSFER		
			CONSIST OF "MICROPHONE-CW-ICM" SWITCH & "TRANSMIT-RECEIVE" SWITCH.					
12/31/31			5/11/32			9/20/32		M-7460898 & T-7659142-C-1
NOV. 41			NOV. 41			NOV. 41		
23005	GENERAL USE	RL 23F.255	CBY 23011	GF		CBM 23017	KE-3	
CONTROL PANEL			JUNCTION BOX			CONTROL CABINET		
CONTAINS: TELEGRAPH KEY - 26001. START-STOP SWITCH. INDICATOR LIGHT.			CONSISTS OF AN ASSEMBLY OF RECEPTACLES FOR CONNECTING CABLES, FUSE BLOCK, RELAY, RESISTORS AND A "REC.-TRANS. REC. ONLY" SWITCH.			(NOS-26819).		
		(3259)	5/11/32			9/27/32		
2/24/32			NOV. 41			NOV. 41		
NOV. 41			CBY 23011-A	RU-2a		CBM 23018	KE-3	
23005-A	GENERAL USE	RE 23F 203A	JUNCTION BOX			REMOTE CONTROL & KEY		
REMOTE CONTROL PANEL - 4						PANEL. (NOS-26819).		
WIRE TELEGRAPH. CONTAINS A TYPE -26001B TELEGRAPH KEY; A SPST START-STOP SWITCH COMBINED WITH AN INDICATOR LIGHT. SUPPLY VOLTAGE 115 VOLTS AC-DC. FOR 4 WIRE TELEGRAPH CONTROL CIRCUITS ONLY. (FOR REPLACEMENT USE 23001-B.			NOV. 41			9/27/32		
5/1/39			NOV. 41			NOV. 41		
NOV. 41			CBY 23012	RU-2		CAY 23019	GK	
23005-B	GENERAL USE	RE 23F 203	REMOTE TUNING CONTROL - RECEIVER. CONSISTS OF DIAL AND TUNING CRANK.			TRANSFER PANEL		
4 WIRE-TELEGRAPH REMOTE CONTROL PANEL. CONTAINS A TYPE -26012 INSULATED TELEGRAPH KEY, A SPST START-STOP SWITCH, AN INDICATOR LIGHT & A RESISTOR TO PERMIT OPERATION FROM 115 OR 230 VOLT AC, DC SUPPLY. (-23148, -23163, -23164).			5/11/32			10/27/32	WG-13322	
10/2/40			NOV. 41			NOV. 41		
NOV. 41								

CONFIDENTIAL

NAVSHIPS 900,109

3.23-2

Class 23—Control Panels and Control Units

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CBY 23020 GF SWITCH PANEL			RN-23028 GENERAL USE RN 23J 136 PANEL - MOTOR - GENERATOR RN 23J 142 CONTROL AND TRANSFER. FOR USE WITH THREE MOTOR-GENERATORS.			CBM 23035 KE-4 CONTROL CABINET GENERAL RADIO RELAYS.		
11/7/32 NOV. 41			7/27/33 NOV. 41			1/11/34 NOV. 41		
CBY 23021 RU-2 CONTROL CABLE MECHANICAL LINKAGE BETWEEN RECEIVER AND REMOTE CONTROL UNIT (FLEXIBLE CABLE). (RU-5).			RN-23029 GENERAL USE RN 23J 138 PANEL - MOTOR-GENERATOR CONTROL AND TRANSFER. FOR USE WITH TWO MOTOR-GENERATORS.			CBM 23035-A KE-4 CONTROL CABINET SAME AS 23035 EXCEPT CONTAINS STRUTHERS DUNN, INC. RELAYS (NOS-39256).		
11/7/32 NOV. 41			7/27/33 NOV. 41			9/10/35 NOV. 41		
CBY 23022 RU-2 CONTROL UNIT FOR LOCAL CONTROL OF RECEIVER.			RN-23030 GENERAL USE RN 23F 137 PANEL - MOTOR-GENERATOR & BROADCAST RECEIVER SWITCHING.			CBM 23036 JL-2 CHARGING PANEL		
11/7/32 NOV. 41			7/27/33 NOV. 41			1/11/34 NOV. 41		
CBY 23023 RU-2 SWITCH PANEL			CN-23031 GM CN-G-115 EXTENSION CONTROL BOX.			23037 GENERAL USE CA32-67-2 BATTERY CHARGING PANEL (PLATE). DISCHARGE: FOUR BATTERIES IN SERIES. CHARGE: ONE BATTERY.		
11/8/32 NOV. 41			9/29/33 NOV. 41			1/16/34 NOV. 41		
CHH 23024 SWITCH CANCELLED -- USE 24026.			23032 GENERAL USE RN 23F 139 PLUG PANEL TRANSMITTER CONTROL			CAE 23038 QC 55RE2121433 HOIST CONTROL TWO-BUTTON		
NOV. 41			12/1/33 NOV. 41			2/19/34 NOV. 41		
RW-23025 QA, QB, QC RW 79F 137 CONTROL PANEL FOR RW-78005.			23032-A GENERAL USE RN 23F 139G PLUG PANEL SAME AS -23032 EXCEPT USES FIVE CON- DUCTOR PLUGS & RECEPTACLES IN LIEU OF FOUR CONDUCTOR IN ORDER TO GROUND PATCH CORD SHIELD.			CAE 23039 QC 55RE2121433 TRAINING CONTROL 3-BUTTON - MARKED: "FORWARD-FAST- REVERSE".		
6/15/33 NOV. 41			4/19/39 NOV. 41			2/19/34 NOV. 41		
CHS 23026 CO POWER CONTROL PANEL			23033 GENERAL USE BATTERY CONTROL AND CHARGING PANEL. 4 BATTERIES IN SERIES.			CAE 23039-A QC-1 TRAINING CONTROL 3-BUTTON, MARKED: "RIGHT-FAST-LEFT".		
6/17/33 NOV. 41			12/5/33 NOV. 41			11/28/34 NOV. 41		
CRY 23027 TAJ-4&TB-1 JUNCTION BOX RECTIFIER TRANSFER			23034 GENERAL USE RN 23F 140 RECEIVER EXTENSION PANEL ALUMINUM CABINET. USES TYPE -49021 JACKS - QUANTITY VARIES WITH REQUIRE- MENTS.			CBM 23040 QC 55RE23F1391 REMOTE CONTROL CABINET		
6/21/33 NOV. 41		P-702544	12/15/33 NOV. 41			2/19/34 566 NOV. 41		

DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER
------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------

Class 23—Control Panels and Control Units

3.23-3

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION		
CAE 23041 QC		55RE21Z1433	CBY 23049 * SEE BELOW			CBM 23056-A HA				
HOIST LIMIT SWITCH			ANTENNA RELAY UNIT.			CONTROL CABINET.				
						SAME AS CBM-23056 EXCEPT LEFT-RIGHT				
						LEVER OPERATION FOR TRAINING CONTROL				
						SWITCH.				
2/19/34			* GF-1, GF-2, GF-3, & GF-4.			2/27/35 566F				
NOV. 41			6/14/34			NOV. 41				
			NOV. 41							
CAE 23042 QC		55RE21Z1433	CBY 23050 RU-3& RU-3a			CRY 23057 GP				
TRAIN LIMIT SWITCH			ANTENNA LOOP SWITCH			OPERATOR'S CONTROL UNIT				
			LOCAL CONTROL.							
2/19/34			6/14/34			8/4/34		P-708679		
NOV. 41			NOV. 41			NOV. 41				
CAE 23043 TAY-1			CBY 23051 * SEE BELOW			CRY 23058 GP				
REMOTE CONTROL UNIT			ANTENNA LOOP SWITCH			PILOT'S CONTROL UNIT				
FOR REMOTE CONTROL OF TYPE CAY-52026			REMOTE CONTROL.							
TRANSMITTER.										
4/12/34			* RU-3, RU-3a, RU-4a.			8/4/34		P-708678		
NOV. 41			6/14/34			NOV. 41				
			NOV. 41							
CBM 23044 KE-4			CBY 23052 RU-3&RU-3a			CW-23059 CXH				
CONTROL PANEL			ANTENNA LOOP SWITCH REMOTE			CONTROL UNIT				
HAND KEY, INDICATOR LIGHT, TWO-BUTTON			CONTROL MECHANICAL LINKAGE. DUAL COIL							
MOMENTARY CONTACT SWITCH.			SET REMOTE CONTROL MECHANICAL LINKAGE.							
5/24/34			6/14/34			12/1/34 14A				
NOV. 41			NOV. 41			NOV. 41				
CBY 23045 GF-1			CBY 23053 RU-3&RU-3a			CW-23060 GP-1				
TRANSMITTER CONTROL BOX			DUAL COIL SET LOCAL			PILOT'S CONTROL UNIT				
			CONTROL.							
6/14/34			6/14/34			12/11/34		ESL-604415		
NOV. 41			NOV. 41			NOV. 41				
CBY 23046 RU-3&RU-3a			CBY 23054 * SEE BELOW			CW-23061 GP-1				
RECEIVER SWITCH BOX			DUAL COIL SET REMOTE			OPERATOR'S CONTROL UNIT				
			CONTROL.							
6/14/34			* RU-3, RU-3a AND RU-4a.			12/11/34		ESO-604414		
NOV. 41			6/14/34			NOV. 41				
			NOV. 41							
CBY 23047 GF-2			CAY 23055 TAJ-5 & T&K			CBM 23062 QC-1				
TRANSMITTER CONTROL BOX			JUNCTION BOX			REMOTE CONTROL CABINET				
6/14/34			7/2/34		T-7604072	12/21/34 566E				
NOV. 41			NOV. 41			NOV. 41				
CBY 23048 GF-2			CBM 23056 HA			CAE 23063 HA				
EXTENSION CONTROL BOX			CONTROL CABINET			PUSH-BUTTON STATION				
						TWO-BUTTON. FOR USE WITH TYPE 21138.				
6/14/34			7/7/34			2/18/35 CBM:757D		86V102		
NOV. 41			NOV. 41			DEC. 41				
DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER

CONFIDENTIAL

NAVSHIPS 900,109

3.23-4

Class 23—Control Panels and Control Units

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION		
CAE 23064 HA PUSH BUTTON STATION THREE BUTTONS; FOR USE WITH 21138.			CW-23072 * SEE BELOW MASTER MONITOR UNIT SINGLE CHANNEL.			CAY 23079 TBN-1 POWER TRANSFER UNIT FOR 220 VOLTS, 3-PHASE, 25 CYCLES.				
2/18/35 NOV. 41		86V101	* TBM-1, TBN-1, 3. 2/26/35 NOV. 41			6/25/35 NOV. 41		T-7604555		
CG-23065 TBJ PANEL - SUBSTATION CONTROL			CRY 23073 RAK & RAL CONTROL UNIT. 2 LBS.			23080 QC-1a SWITCH HOIST-LOWER - SOLENOID TYPE - SINGLE.				
2/18/35 NOV. 41		ML-7350130-G-1	4/1/35 NOV. 41			7/12/35 NOV. 41				
CG-23066 TAW-1 PANEL - SUBSTATION CONTROL			CMX 23073-A RAK-8, RAL-8 CONTROL UNIT SAME AS BASIC NUMBER EXCEPT FOR USE OF AWS COMPONENTS.			23081 QC-1a SWITCH HOIST-LOWER - SOLENOID TYPE - DOUBLE.				
2/18/35 NOV. 41		ML-7350130-G-2	4/2/43 NOV. 43			7/12/35 NOV. 41				
CHS 23067 RAC-1&RAH-1 MIXER UNIT			CAE 23074 HA & HB 19RE21J1445 LEVER MASTER SWITCH, PROJECTOR TRAINING, TRAIN LEFT - STOP TRAIN RIGHT - DEPRESS, FOR FAST LEFT OR RIGHT, USED WITH CONTROLLERS CAE-21138 AND CAE-21176.			CAE 23082 QC-1a SWITCH INDICATING LIGHT LIMIT.				
2/19/35 NOV. 41			5/23/35 NOV. 41			7/12/35 DEC. 41		CH-874381		
CW-23068 TBM-2&TBN-2 STATION EXTENSION UNIT			CW-23075 CXL CONTROL UNIT			CRY 23083 TBN CONTROL UNIT				
2/26/35 NOV. 41		ESXX-606422	6/17/35 NOV. 41			9/9/35 NOV. 41		KX-281757		
CH-23069 TBM-2&TBN-2 STATION CONTROL UNIT - TELEPHONE. FOUR-CHANNEL.			CAY 23076 TBM-1&TBN-1 REMOTE CONTROL UNIT 60 CYCLES, K-303 RELAY. "STANDBY" CIRCUIT A MAKE CIRCUIT.			CAY 23084 T8K-4 CONTROL UNIT 220 VOLTS - 60 CYCLES, K-309 RELAY; STANDBY CIRCUIT A BREAK CIRCUIT; MAY BE REPLACED BY CAY-23099 OF MODEL T8K-6.				
2/26/35 NOV. 41		ESXX-606324	6/25/35 NOV. 41		M-7405372	10/25/35 NOV. 41		M-7405916		
CW-23070 * SEE BELOW STATION CONTROL UNIT - TELEPHONE. SINGLE CHANNEL.			CAY 23077 TBM-1&TBN-1 REMOTE CONTROL UNIT 25 CYCLES. "STANDBY" CIRCUIT IS A MAKE CIRCUIT.			23085 GENERAL USE RN-23F 144 PANEL - BATTERY CHARGING SIX BATTERIES; TWO ON CHARGE - FOUR ON DISCHARGE.				
* TBM-1 & TBN-1, 3. 2/26/35 NOV. 41			6/25/35 NOV. 41		M-7405372	2/11/36 NOV. 41				
CW-23071 TBM-2&TBN-2 MASTER MONITOR UNIT FOUR-CHANNEL.			CAY 23078 TBN-1 POWER TRANSFER UNIT FOR 220 VOLTS, 3-PHASE, 60 CYCLES.			CVI 23086 MC SOLENOID CONTROLLED VALVE UNIT, HYDRAULIC HOIST-LOWER VALVE OPERATED BY GE CO T-2230441, 440 VOLT, PULL-IN TYPE SOLENOID.				
2/26/35 NOV. 41		ESXX-606544	6/25/35 NOV. 41		T-7604555	2/29/36 NOV. 41		VICK 16803 AND RE 16885		
DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER

Class 23—Control Panels and Control Units

3.23-5

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CBY 23087	RU-4		CAY 23095	GP-3		CAY 23102	TBK-6	
RECEIVER SWITCH BOX			CONTROL BOX (OPERATOR)			POWER TRANSFER PANEL		
						250 VOLTS D.C.		
3/5/36			5/14/36			7/16/36		OUTLINE DWG.
NOV. 41			NOV. 41			NOV. 41		T-7605042
23088	* SEE BELOW	RE 23AA 197	CBY 23096	RU-4a, 5a		CM- 23103	GN	
PANEL-RECEIVER POWER		198	RECEIVER SWITCH BOX			OPERATORS CONTROL BOX		
TRANSFER. TO TRANSFER POWER (FROM OR TO) BATTERY TO (OR FROM) POWER UNIT.								
* RAK, RAK-1; RAL, RAL-1.			7/2/36			8/10/36		ESX-610438
4/16/36			NOV. 41			NOV. 41		
CM- 23089	GP-1		CBY 23096-A	* SEE BELOW		CM- 23104	GN	
SPECIAL MOUNT FOR			RECEIVER SWITCH BOX			PILOTS CONTROL BOX		
22247 RF AMMETER. (SEE 22247).			SAME AS TYPE -23096 EXCEPT FOR SUBSTITUTION OF A 30,000 OHM SERIES VOLUME CONTROL FOR A 5000 OHM CONTROL, ELECTRICALLY & MECHANICALLY INTERCHANGEABLE AS A UNIT WITH TYPE -23096.					
		ESD-609038	* RU-13, 14 & 15.					
NOV. 41			12/2/40			8/10/36		OUTLINE DWG.
CM- 23090	RAM		NOV. 41			NOV. 41		ESX-610439
REMOTE TUNING UNIT			CAY 23097	GF-3, 4.		23105	GENERAL USE	RN 23F 146A
RANGE: 200 - 1500 KC WITH 4 POSITION BAND SELECTOR SWITCH.			TRANSMITTER CONTROL BOX			PLUG BOARD - MOTOR		GENERATOR. 9 RECEPTACLES. (FIRST MFR BY RM).
4/24/36			7/2/36			5/10/37		
NOV. 41			NOV. 41			NOV. 41		
CM- 23091	RAM		CAY 23098	GF-3, GF-4		23106	* SEE BELOW	RN 23J 147A
REMOTE TUNING UNIT			EXTENSION CONTROL BOX			POWER PANEL		RADIO ROOM. (FIRST MFR BY RN).
RANGE: 1500 - 13,575 WITH 6 POSITION BAND SELECTOR SWITCH.								
			7/2/36			* AYP-1 TO 9 INC.		
4/24/36			NOV. 41			5/29/37		
NOV. 41						NOV. 41		
CM- 23092	RAM		CAY 23099	TBK-6		23107	GENERAL USE	RE 23F 201A
CONTROL UNIT			REMOTE CONTROL UNIT			PANEL - KEY.		
			110 - 220 / 25 - 60 CYCLE. "STANDBY" CIRCUIT IS A BREAK CIRCUIT. 91 LBS. CAN BE USED AS A REPLACEMENT FOR CAY-23084 OF MODEL TBK-4.			DUAL REMOTE CONTROL. SIMILAR TO --23005 FOR REPLACEMENT USE -23107A.		
4/24/36			7/16/36		OUTLINE DWG.	6/10/37		
NOV. 41			NOV. 41		7406215	NOV. 41		
CVI 23093	HC-28HC-2a		CAY 23100	TBK-6		23107-A	GENERAL USE	RE 23F 201
SOLENOID CONTROL VALVE			REMOTE CONTROL UNIT			4 WIRE-TELEGRAPH REMOTE		
CONTROL UNIT. 220 VOLT AC SINGLE PHASE.			250 VOLTS D.C. "STANDBY" CIRCUIT A BREAK CIRCUIT. 53 LBS.			CONTROL PANEL-DUAL. CONTAINS TWO EACH OF THE FOLLOWING: TYPE -23012 INSULATED TELEGRAPH KEY, SPST START-STOP SWITCH, INDICATOR LIGHT & RESISTOR TO PERMIT OPERATION FROM 115 OR 230 V. AC-DC SUPPLY. SIMILAR TO -23005B EXCEPT FOR 10/2/40		
						NOV. 41		
5/11/36		B19840	7/16/36		OUTLINE DWG.			
NOV. 41			NOV. 41		7406215			
CAY 23094	GP-3		CAY 23101	TBK-6		CONTROL OF TWO TRANSMITTERS.		23107-A
CONTROL BOX (PILOT)			POWER TRANSFER PANEL					
			220/2/60; 220/3/60; 440/3/25.					
5/14/36			7/16/36		OUTLINE DWG.			
NOV. 41			NOV. 41		T-7605042			

3.23-6

Class 23—Control Panels and Control Units

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CRR 23108 CXT			CSD 23116 QC-7			CBM- 23118-E		
REMOTE CONTROL FOR TYPE CRR-46055 RECEIVER UNIT.			RELAY CONTROL PANEL USED IN TYPE 20058 POLARIZING RECTIFIER UNIT.			WITH A 50G SYNCHRO FOR MAINTENANCE OF TRUE BEARING ON A ONE SPEED GYRO SUPPLY.		
7/10/37 269 NOV. 41			10/14/37 NOV. 41		CBM:SK-3727			
CRR 23109 CXT			CRR 23117 GQ			CBM- 23118-F		
REMOTE CONTROL FOR TYPE CRR-52072 TRANSMITTER UNIT.			REMOTE CONTROL PANEL FOR TYPE CRR-46057 RECEIVER UNIT.			REMOTE CONTROL UNIT: SAME AS -23118-B EXCEPT IT IS MODIFIED BY ADDING A 5P3 POSITION SWITCH, A 115/78 VOLT, 25 WATT TRANSFORMER, ONE 3 PHASE -10 MFD/PHASE CAPACITOR, A 1/36 GEAR BOX AND BY REPLACING DC HAND GEN- *QCA-a,QCB-a,QCB-1a, -23118 MOD. MA8-1a 12/1/43 NOV. 44		
7/10/37 272 NOV. 41			10/30/37 NOV. 41					
CRR 23110 CXT			CBM 23118 HD		55RE23J1405A	CBM- 23118-F		
PILOTS STATION BOX A PART OF INTERPHONE SYSTEM.			REMOTE CONTROL UNIT			ERATOR WITH A 50G SYNCHRO FOR MAINTENANCE OF TRUE BEARING ON A ONE SPEED GYRO SUPPLY:		
7/10/37 283 NOV. 41			11/19/37 757 NOV. 41					
CRR 23111 CXT			CBM 23118-A QCF		55RE23J1408A	CBM- 23118-G		
PHOTOGRAPHERS STATION BOX A PART OF INTERPHONE SYSTEM.			REMOTE CONTROL UNIT SIMILAR TO TYPE CBM-23118 EXCEPT ENGRAVING OF TERMINAL PANEL AND SLIGHT MECHANICAL IMPROVEMENTS; SPECIFICATIONS; A PART OF TYPE -78070 INDICATOR AMPLIFIER CONTROL UNIT.			REMOTE CONTROL UNIT: SAME AS 23118-C EXCEPT IT IS MODIFIED BY A 5P3 POSITION SWITCH, A 115/78 VOLTS, 25 WATT TRANSFORMER, A 3PH -10 MFD/PHASE CAPACITOR, A 1/36 GEAR BOX AND BY REPLACING dc HAND GENERATOR WITH A 5 DG *QCCJ-a,QCK-a,QCJ-1a,QCK-1a 12/1/43 OCT. 44		
7/10/37 284 NOV. 41			6/7/38 757B NOV. 41		CBM:SK-37818			
CRV 23112 UD			CBM 23118-B * SEE BELOW		55RE23J1411A	CBM- 23118-G		
RECEIVER TRANSFER PANEL			REMOTE CONTROL UNIT SIMILAR TO TYPE CBM-23118 EXCEPT ENGRAVING OF TERMINAL PANEL & CHANGES IN SUB-ITEMS AS REQUIRED BY THE GOVERNING SPECIFICATIONS. A PART OF CBM-78070A INDICATOR AMPLIFIER CONTROL UNIT. * QCA, QCB & QCB-1. 6/7/38 757C NOV. 41			SYNCHRO FOR MAINTENANCE OF TRUE BEARING ON A ONE SPEED GYRO SUPPLY.		
10/8/37 NOV. 41		HX-241727 REV 2			CBM:SK-37818			
CRV 23113 UD			CBM 23118-C QCJ & QCK		55RE23J1419A	CBM- 23118-H		
RECEIVER FILTER PANEL			REMOTE CONTROL UNIT SIMILAR TO TYPE CBM-23118B(USED IN QCB) EXCEPT MINOR CHANGES SUCH AS TERMINAL PANEL ENGRAVING; A PART OF THE CBM-78070B INDICATOR AMPLIFIER CONTROL UNIT.			REMOTE CONTROL UNIT: SAME AS -23118-D EXCEPT IT IS MODIFIED BY ADDING A 5P 3 POSITION SWITCH A 115/78 VOLT, 25 WATT TRANSFORMER, A 3 PH - 10 MFD/ PHASE CAPACITOR, A 1/36 GEAR BOX AND BY REPLACING dc HAND GENERATOR WITH A 5 DG SYNCHRO FOR MAINTENANCE OF TRUE 12/1/43 OCT. 44		
10/8/37 NOV. 41		HX-241727 REV 2	11/1/38 757A NOV. 41		CBM SKETCH SK37818 ALT 0			
CRV 23114 UC			CBM 23118-D * SEE BELOW		55RE23J1429A	CBM- 23118-H		
REMOTE CONTROL PANEL			TRAINING CONTROL UNIT SAME AS CBM-23118C EXCEPT FOR TERMINAL ENGRAVING.			BEARING ON A ONE SPEED GYRO SUPPLY.		
10/8/37 NOV. 41		HX-241725 REV 2	* QCA-1, QCB-1 & QCB-2. 2/20/40 757G NOV. 41		CBM:SK-6974 ALT 0			
CRV 23115 UC			CBM- 23118-E *SEE BELOW			CBM 23119 HD		
TRANSMITTER FILTER PANEL PLUG BOARD.			REMOTE CONTROL UNIT: SAME AS -23118-A EXCEPT IT IS MODIFIED BY ADDING A 5P3 POSITION SWITCH, A 115/78 VOLT, 25 WATT TRANSFORMER, A 3 PH-10 MFD/PHASE CAPACITOR, A 1/36 GEAR BOX AND BY REPLACING DC HAND GENERATOR *QCF-a, -23118-A, MOD. 12/1/43 NOV. 44			TRAINING CONTROL UNIT (UNITS MARKED TRAINING POWER SUPPLY UNIT). BY THYRATRON REGULATION.		
10/8/37 NOV. 41		HX-241725 REV 2				11/22/37 758 NOV. 41		

DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER
------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------



Class 23—Control Panels and Control Units

3.23-7

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CBM 23119-A	QCB & QCB-1	55RE23J1413A	CBM-23119F			CBM-23120-G	*SEE BELOW	
TRAINING CONTROL UNIT (UNITS MARKED TRAINING POWER SUPPLY UNIT). SIMILAR TO CBM-23119 EXCEPT FOR ENGRAVING OF TERMINAL PANEL AND NUMBER OF CABLE ENTRANCES.			FILTER CONDENSERS AND REMOVING GROUNDS FROM GRID CIRCUIT OF THE DOUBLE DIODE TUBE.			LOCAL CONTROL UNIT: SAME AS -23120-C EXCEPT IT IS MODIFIED BY REPLACING PLATE AND FILAMENT TRANSFORMERS 110V/580V/5V WITH ONE RATED 110V/700V/5V AND BY REPLACING THE VOLTAGE DIVIDER AND CERTAIN REWIRING CHANGES. *WAA-a,QCA-1a,QCJ-1a,QCK-1a		
6/8/38	758D	CBM:SK3791C				12/1/43		OCT. 44
NOV. 41								
CBM 23119-B	QCF & QCA	55RE23J1409A	CBM 23120	NO	55RE23J1406A	CRY 23121	UC	
TRAINING CONTROL UNIT: (UNITS MARKED TRAINING POWER SUPPLY UNIT). SIMILAR TO CBM-23119 EXCEPT FOR CHANGE IN LINE FUSE PANEL USING HIGHER VALUE FUSES DUE TO 220 VOLT, 3 PHASE, 60 CYCLE POWER SUPPLY. ENGRAVING OF TERMINAL PANEL & NUMBER OF CABLE ENTRANCES.			LOCAL CONTROL UNIT			ANTENNA SWITCHING UNIT		
6/10/38	758B	CBM:SK-3791C						
NOV. 41								
CBM 23119-C	QCJ & QCK	55RE23J1420A	11/24/37			2/8/38		M-418041
TRAINING CONTROL UNIT SIMILAR TO TYPE CBM-23119 EXCEPT FOR CHANGE IN TERMINAL PANEL ENGRAVING AND OTHER MINOR CHANGES.			NOV. 41			NOV. 41		
								GMC-71237
11/1/38	758A	CBM SKETCH SK3791C ALT 0	CBM 23120-A	* SEE BELOW	55RE23J1410A	CAO 23122	HE	55RE78J1141A SHEET 4
NOV. 41			LOCAL CONTROL UNIT SIMILAR TO CBM-23120 EXCEPT HAND LEVER DESIGN AND INTERNAL MECHANICAL ARRANGEMENT HAS BEEN IMPROVED.			REMOTE TRAINING CONTROL PANEL. 175 TO 335 VOLTS.		
						4/2/38	14485-1	
						NOV. 41	NOV. 41	NOV. 41
CBM-23119-D	QCB-a,QCB-1a	4AB-1a	* QCA, QCB, QCB-1, QCF.					
TRAINING CONTROL RECTIFIER UNIT: SAME AS -23119-A EXCEPT MODIFIED BY ADDING A TWO-STAGE PREAMPLIFIER WITH ADDED TERMINAL BY REPLACING TWO LIMITING RESISTORS IN PLATE CIRCUIT OF DOUBLE DIODE TUBE BY DISCONNECTING 2 FILTER CONDENSERS AND REMOVING GROUNDS FROM			6/8/38			NOV. 41		
			NOV. 41					
NOV. 44								
			CBM 23120-B	QCJ & QCK	55RE23J1421A	CRR 23123	CO	
			LOCAL CONTROL UNIT SIMILAR TO CBM-23120 EXCEPT FOR PARTIAL REDESIGN WHEREBY SUB-ITEMS ARE DIRECTLY MOUNTED ON THE COVERCASTING RATHER THAN THE CHASSIS PLATE ATTACHED TO THE CASTING AND OTHER MINOR CHANGES.			CONTROL UNIT REMOTE CONTROL OF -52080 TRANSMITTER.		
						4/13/38		F9729
			NOV. 41			NOV. 41		
			CBM 23120-C	WAA	55RE23J1430A	CAY 23124	GP-4	
			LOCAL CONTROL UNIT SIMILAR TO -23120B EXCEPT FOR TERMINAL ENGRAVING.			CONTROL BOX (PILOTS)		
						4/21/38		P-7706516 SUB 0
			8/8/39	756D	CBM DWG SK-3793B ALT 0	NOV. 41		
			NOV. 41					
CBM-23119-E	*SEE BELOW		CBM 23120-D	*SEE BELOW		CAY 23125	GP-4	
TRAINING CONTROL RECTIFIER UNIT: SAME AS 23119-B EXCEPT IS MODIFIED BY ADDING 2 STAGE PREAMPLIFIER WITH ADDED TERMINALS BY REPLACING 2 LIMITING RESISTORS IN PLATE CIRCUIT OF DOUBLE DIODE TUBE, BY DISCONNECTING 2			LOCAL CONTROL UNIT SAME AS -23120-C EXCEPT CASE IS SHEET STEEL INSTEAD OF ALUMINUM, RIGHT-LEFT SWITCH HAS DIFFERENT INSULATING MATERIAL AND DIFFERENT TERMINAL ENGRAVING.			CONTROL BOX (OPERATORS)		
						4/21/38		P-7706517 SUB 1
						NOV. 41		
			*NOS-78964	LOT 2 7/8				
			3/3/43	756J	CBM:60177 ALT 0			
			NOV. 43					
			CBM-23120-E	* SEE BELOW		CRP 23126	LP-4	
			LOCAL CONTROL UNIT: SAME AS -23120-A EXCEPT IT IS MODIFIED BY REPLACING PLATE AND FILAMENT TRANSFORMER 110V/580V/5V WITH ONE RATED 110V/700V/5V AND BY REPLACING VOLTAGE DIVIDER AND CERTAIN REWIRING CHANGES.			VOLTAGE REGULATOR INPUT 95 TO 130 VOLT, 60 CYCLES. OUTPUT 115 VOLTS ± 1%, 60 WATTS. CONTINUOUS; INSULATION 2500 VOLTS TO GROUND. *REPLACED WITH NAVY TYPE CRP-30524 UNITS*.		
						4/27/38	VR2	CRR:A-C55284
						NOV. 41		
			CBM-23120-F	QCJ-a		CEA 23127	DV	
			LOCAL CONTROL UNIT: SAME AS -23120-B EXCEPT IT IS MODIFIED BY REPLACING PLATE AND FILAMENT TRANSFORMERS 110V/580V/5V WITH ONE RATED 110V/700V/5V AND BY REPLACING THE VOLTAGE DIVIDER AND CERTAIN REWIRING CHANGES.			HYDRAULIC LOOP ROTATOR		
						4/22/38	CRR:L-70419	E-48440
			12/1/43			NOV. 41		
			OCT. 44					

CONFIDENTIAL

NAVSHIPS 900,109

3.23-8

Class 23—Control Panels and Control Units

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CEA 23128 DV HYDRAULIC MAKE-UP PUMP. CONTROLS PRESSURE OF HYDRAULIC SYSTEM.			CBM 23136 QCH TRANSFER SECTOR CONTROL UNIT. CHASSIS MAY BE EASILY WITHDRAWN FOR SERVICING.		55RE23J1416A	RA-23144 XAJ PROJECTOR REMOTE CONTROL UNIT.		
1/20/38 CRR:N90151-1 NOV. 41	CRR:A-N90151-1		8/9/38 771 NOV. 41		CBM SKETCH SK-3806A ALT 0	5/12/39 NOV. 41		
CEA 23129 DV LOOP CONTROL UNIT HYDRAULIC CONTROL.			CDE 23137 CXX CONTROL BOX			CFI 23145 YE CONTROL UNIT CONTROLS TRANSMITTER AND ANTENNA DRIVE UNIT.		
1/20/38 CRR:N90150-1 NOV. 41	CRR:A-N90150-1		* WASHINGTON INSTITUTE OF TECH. SKETCH. 8/27/38 232 NOV. 41		* 849 REV 0	6/29/39 NOV. 41		B-3018 ALT 2
CBM 23130 QCE REMOTE CONTROL UNIT CONSISTS OF A CUI-21228 REMOTE TRAINING UNIT AND HOIST-LOWER CONTROL BUTTONS, BEARING REPEATER AND GYRO COMPASS REPEATER.		55RE23J1414A	CEA 23138 CXS HYDRAULIC LOOP ROTATOR SIMILAR TO -23138 EXCEPT INCLUDES A SWITCHING RELAY.			23146 GENERAL USE RE 23F 205 6 WIRE-TELEGRAPH REMOTE CONTROL PANEL. CONTAINS A NAVY TYPE -25012 INSULATED TELEGRAPH KEY, TWO SINGLE BUTTON MOMENTARY CONTACT SWITCHES, AN INDICATOR LIGHT AND A RESISTOR TO PERMIT OPERATION FROM 115 OR 230 VOLT AC - DC SUPPLY. (-23147). 7/11/39 NOV. 41		
6/8/38 757D NOV. 41		CBM DWG SK-3781C	9/1/38 NOV. 41		CRR:B13024			
CBM 23131 QCC TRANSFER SELECTOR CONTROL UNIT. SPECIAL 3 GANG 8 POSITION. SWITCH INCLUDES TWO PILOT LAMPS, PADDING RESISTORS AND SAFETY SWITCH.		55RE23J1412A	CAY 23139 GP-5 PILOTS CONTROL BOX SIMILAR TO -23124 EXCEPT FOR LARGER CONTROL SOCKETS TO PERMIT AN INDICATOR LIGHT ON FRONT PANEL.			23147 REMOTE CONTROL PANEL - 6 WIRE TELEGRAPH. SUPERSEDED BY -23146.		
6/13/38 771A NOV. 41		CBM SKETCH 3974A	1/11/39 NOV. 41		SK-103			
CG-23132 * SEE BELOW CONTROL UNIT			CAY 23140 GP-5 OPERATORS CONTROL BOX SIMILAR TO -23125 EXCEPT FOR LARGER CONTROL SOCKETS TO PERMIT AN INDICATOR LIGHT.			23148 REMOTE CONTROL UNIT - 4 WIRE TELEGRAPH. CANCELLED - USE -230058.		
* CG-73000(TBR, 1). 6/16/38 ML-7660392 NOV. 41		1-7660347 REV 1(PRELIM)	1/11/39 NOV. 41					
CBM 23133 JK-4 & QCH REMOTE TRAINING CONTROL UNIT FOR REMOTE CONTROL OF TRAINING UNIT; INCLUDES A TRAINING MOTOR-GENERATOR ON-OFF SWITCH, A PROJECTOR FACE SWITCH, A BEARING REPEATER SWITCH, OR TRAINING LEVER SWITCH, A TRUE & RELATIVE BEARING INDICATOR & UP-DRIVEN INDICATOR LIGHTS. 7/7/38 757E AUG. 44 757ES		55RE23J1415A	CDV 23141 YA REMOTE CONTROL UNIT			CBM 23149 MAA REMOTE CONTROL UNIT SIMILAR TO -23113C EXCEPT FOR ADDITION OF SWITCH AND PILOT FOR REVERSAL OF BEARINGS.		
			3/13/39 DEC. 41			8/8/39 757F NOV. 41		SK-3781D ALT 0
RA-23134 XAE TRANSMITTER CONTROL BOX		RA68F202 NO REV	CG-23142 CXAB REMOTE CONTROL UNIT 15-3/32" HIGH X 8-3/16" WIDE X 8-5/8" DEEP. FRONT DOOR HINGED AT BOTTOM REQUIRES CLEARANCE OF 12-1/2".			CBM-23149-A *SEE BELOW REMOTE CONTROL UNIT: SAME AS -23149 EXCEPT IT IS MODIFIED BY ADDING A 5PS POSITION SWITCH A 115/78 VOLT, 25 WATT TRANSFORMER, A 3PH.-10 MFD/PHASE CAPACITOR, A 1/36 GEAR BOX AND BY REPLACING DC HAND GENERATOR WITH A 50G *MAA-a.-23149, MOD. 12/1/43 NOV. 44		
7/28/38 NOV. 41			3/23/39 4HC10A1 NOV. 41					
CRY 23135 TBS REMOTE CONTROL UNIT FOR CONTROLLING. TYPE CRY-52093 TRANSMITTER INCLUDES HANDSET.			RA-23143 XAJ CONTROL PANEL CONSISTS OF RA-20082 RECTIFIER POWER UNIT; RA-23144 PROJECTOR REMOTE CONTROL UNIT; RA-43004 UNI-CONTROL UNIT; RA-55037 RANGE INDICATOR & GYRO-COMPASS UNIT; AND OPERATORS DESK AND TRANSMITTER KEY UNIT. 5/12/39 NOV. 41			CBM-23149-A SYNCHRO FOR MAINTENANCE OF BEARING ON A SPEED GYRO SUPPLY.		
7/30/38 H1-8711 NOV. 41		PX-272092 REV 0						

Class 23—Control Panels and Control Units

3.23-9

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CBM 23150	WAA		23156	GENERAL USE RN 23F 150A		23163		
TRAINING CONTROL UNIT			MOTOR-GENERATOR CONTROL PANEL. FOR CONTROLLING TWO MOTOR-GENERATORS WITH 2 OUTLETS FOR OUTPUTS FROM EITHER GENERATOR.			REMOTE CONTROL PANEL - 4 WIRE TELEGRAPH. CANCELLED - USE -23005B.		
8/8/39	758F	SK-4204B ALT 0	10/31/39			NOV. 41		
NOV. 41			NOV. 41					
CBM-23150-A	NAA-a		23156-A	GEN. USE RE23F220A		23164		
TRAINING CONTROL RECTIFIER UNIT. SAME AS -23150 EXCEPT IS MODIFIED BY ADDING A 2 STAGE PREAMPLIFIER WITH ADDED TERMINALS BY REPLACING 2 LIMITING RESISTORS IN PLATE-CIRCUIT OF DOUBLE DIODE TUBE BY DISCONNECTING 2 FILTER CONDENSORS AND REMOVING GROUNDS.			MOTOR GENERATOR CONTROL PANEL: FOR CONTROLLING TWO MOTOR-GENERATORS. HAS 2 OUTLETS FOR OUTPUTS FROM EITHER GENERATOR. SAME AS 23156 EXCEPT (1) PLUG AND RECEPTACLES CHANGED (2) 2 PILOT LIGHTS ADDED (3) SWITCHES CHANGED TO DPST.			REMOTE CONTROL PANEL - 4 WIRE TELEGRAPH. CANCELLED - USE -23005B.		
12/1/43			5/19/44			NOV. 41		
NOV. 44			SEPT. 44					
		CBM-23150-A	RW-23157	DT & DT-1		23165		
		FROM THE GRID CIRCUIT OF THE DOUBLE DIODE TUBE.	SWITCH PANEL FOR SWITCHING FROM ONE SPEAKER TO THE OTHER.			REMOTE TELEPHONE & TELEGRAPH UNITS. CANCELLED - USE -23170.		
			11/24/39			NOV. 41		
			NOV. 41					
CRR 23151	GR		CG-23158	TCD		23166		
REMOTE CONTROL UNIT FOR TYPE -52122 TRANSMITTER.			TELEGRAPH & TELEPHONE REMOTE CONTROL UNIT.			REMOTE TELEPHONE & TELEGRAPH UNIT. CANCELLED - USE 23170.		
8/12/39		L-70988 ALT 0	11/28/39	4NC11A1		NOV. 41		
NOV. 41			NOV. 41					
CBM 23152	QCH-1	55RE 23J 1434	CRR 23159	RAP		23167		
TRANSFER SELECTOR CONTROL UNIT; SIMILAR TO -23156 EXCEPT IMPROVEMENTS IN DESIGN AND ARRANGEMENT OF PARTS.			RECEIVER CONTROL BOX			REMOTE TELEPHONE & TELEGRAPH UNIT. CANCELLED - USE -23172.		
8/26/39	771B	CBM:771 B	12/6/39			NOV. 41		
DEC. 41			NOV. 41					
CC-23153	* SEE BELOW		CRR 23160	RAP		23168		
CONTROL UNIT CONTAINS - FUSES, FILTERS, VOLTAGE REGULATORS, REVERSE CURRENT RELAY AND OUTPUT RECEPTACLES. WEIGHT 10 LBS.			RECEIVER REMOTE TUNER			REMOTE TELEPHONE & TELEGRAPH UNIT. CANCELLED - USE 23172.		
* -21394 & -73001 (TBW).			12/6/39			NOV. 41		
9/12/39 C-26611		C-26611 REV 0	NOV. 41					
NOV. 41								
CBY 23154	RAT		CBM 23161	QCH-2		23169		
SWITCH PANEL INCLUDES MCM - OFF - CM SWITCH AND GAIN CONTROL.			TRANSFER SELECTOR CONTROL UNIT. INCLUDES SPECIAL 3 GANG 8 POSITION SWITCH, SAFETY SWITCH, 2 PILOT LIGHTS AND SPECIAL CAPACITORS, RESISTORS & REACTORS.			REMOTE TELEPHONE & TELEGRAPH UNIT - WATER TIGHT. CANCELLED - USE 23170.		
10/25/39			1/2/40	771C	6929 ALT 0	NOV. 41		
NOV. 41			NOV. 41					
CBY 23155	RAT		CBM 23162	QCH-3		23170		
RECEIVER CONTROL BOX SAME ELEMENTS AS -23154 PLUS TUNING CONTROL.			TRANSFER SELECTOR CONTROL UNIT. INCLUDES SPECIAL 3 GANG 8 POSITION SWITCH, SAFETY SWITCH, 2 PILOT LIGHTS, FILTER AND SPECIAL CAPACITORS, RESISTORS & REACTORS.			GENERAL USE RADIO-PHONE UNIT; WATER TIGHT. TELEPHONE: 10 WIRE CIRCUITS FOR TELEPHONE COMMUNICATION. SUPPLY VOLTAGE 230 V AC-DC. TELEGRAPH: 6 WIRE CIRCUITS FOR START-STOP OF TRANSMITTING EQUIPMENTS, AND TERMINALS FOR USE WITH EXTERNAL KEY. FOR USE IN PROTECTED LOCATIONS.		
10/25/39		6546-4-B	1/2/40	771D	6930 ALT 0	1/18/40		
MAR. 42		7978-3-B	NOV. 41			AUG. 42		
						CANCELLED - USE - 23211		

CONFIDENTIAL

NAVSHIPS 900,109



NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CAY 23180	CXAP		RN-23187	GENERAL USE RN 23J 174B		RN-23195	GENERAL USE RN 23J 159A	
PILOTS CONTROL BOX INCLUDES RANGE INDICATOR LIGHTS, RANGE SELECTOR SWITCHES, VOICE-CODE SWITCH & INDICATOR LIGHTS, RADIO-ICS-OFF SWITCH, TRANSMITTER CONTROL SWITCH, ICS CONTROL SWITCH AND INDICATOR LIGHT. ALSO MICROPHONE AND THROTTLE SWITCH JACKS, AND KEY 3/14/41 P-7707846 NOV. 41 SUB 0			RECEIVER TRANSFER PANEL. CONTAINS A TOTAL OF 30 JACKS IN 5 SECTIONS AS FOLLOWS: REMOTE STATIONS - 5: PARALLELING JACKS - 5: TRUNK LINES - 5: LOCAL TRANSMITTERS - 5: LOCAL OPER. POS. - 10. 8/8/40 NOV. 41			TRANSMITTER TRANSFER PANEL CONTAINS A TOTAL OF 45 RECEPTACLES IN 5 SECTIONS AS FOLLOWS: REMOTE RADIOPHONE STATIONS - 5: REMOTE TELEGRAPH STATIONS - 5: PARALLELING RECEPTACLES - 10: TRUNK LINES - 10: LOCAL OPER. POS. - 15. 8/8/40 NOV. 41		
WITH ADJUSTING SCREW. 23180			RN-23188 GENERAL USE RN 23J 175B RECEIVER TRANSFER PANEL. CONTAINS A TOTAL OF 25 JACKS IN 3 SECTIONS AS FOLLOWS: TRUNK LINES - 10: LOCAL TRANSMITTERS - 5: LOCAL OPER. POS. - 10. 8/8/40 NOV. 41			RN-23196 GENERAL USE RN 23J 160A TRANSMITTER TRANSFER PANEL CONTAINS A TOTAL OF 35 RECEPTACLES IN 5 SECTIONS AS FOLLOWS: TRUNK LINES - 15: LOCAL TRANSMITTERS - 15: LOCAL OPER. POS. - 5. 8/8/40 NOV. 41		
CBN 23181	QCX	55RE23J1428A	RN-23189	GENERAL USE RN 23J 176C		RN-23197	GENERAL USE RN 23J 161A	
TRAINING CONTROL UNIT FOR REMOTE CONTROL OF TRAINING UNIT; INCLUDES A TRAINING MC ON-OFF SWITCH, A PROJECTOR FACE SWITCH, A BEARING REPEATER SWITCH, A TRAINING LEVER SWITCH, A TRUE & RELATIVE BEARING INDICATOR AND UP-DOWN INDICATOR LIGHTS. 6/28/40 757L 6905 ALT 0 NOV. 41			RECEIVER TRANSFER PANEL. CONTAINS A TOTAL OF 20 JACKS IN 3 SECTIONS AS FOLLOWS: REMOTE STATIONS - 5: LOCAL TRANSMITTERS - 5: LOCAL OPER. POS. - 10. 8/8/40 NOV. 41			TRANSMITTER TRANSFER PANEL CONTAINS A TOTAL OF 30 RECEPTACLES IN 3 SECTIONS AS FOLLOWS: TRUNK LINES - 10: LOCAL TRANSMITTERS - 15: LOCAL OPER. POS. - 5. 8/8/40 NOV. 41		
RN-23182	GENERAL USE RN 23J 169C		RN-23190	GENERAL USE RN 23J 177B		RN-23198	GENERAL USE RN 23J 162A	
RECEIVER TRANSFER PANEL CONTAINS A TOTAL OF 90 JACKS IN 5 SECTIONS AS FOLLOWS: REMOTE RADIOPHONE STATIONS - 10: REMOTE TELEGRAPH STATIONS - 25: PARALLELING JACKS - 10: TRUNK LINES - 10: LOCAL OPERATING POS. - 35. 8/8/40 NOV. 41			RECEIVER TRANSFER PANEL CONTAINS A TOTAL OF 20 JACKS IN 3 SECTIONS AS FOLLOWS: TRUNK LINES - 5: LOCAL TRANSMITTERS - 5: LOCAL OPER. POS. - 10. 8/8/40 NOV. 41			TRANSMITTER TRANSFER PANEL CONTAINS A TOTAL OF 25 RECEPTACLES IN 5 SECTIONS AS FOLLOWS: REMOTE RADIOPHONE STATIONS - 5: REMOTE TELEGRAPH STATIONS - 5: PARALLELING RECEPTACLES - 5: LOCAL TRANSMITTERS - 5: LOCAL OPER. POS. - 5. 8/8/40 NOV. 41		
RN-23183	GENERAL USE RN 23J 170B		RN-23191	GENERAL USE RN 23J 178C		RN-23199	GENERAL USE RN 23J 163A	
RECEIVER TRANSFER PANEL CONTAINS A TOTAL OF 90 JACKS IN 5 SECTIONS AS FOLLOWS: REMOTE RADIOPHONE STATIONS - 15: REMOTE TELEGRAPH STATIONS - 20: PARALLELING JACKS - 10: TRUNK LINES - 10: LOCAL OPERATING POS. - 35. 8/8/40 NOV. 41			RECEIVER TRANSFER PANEL CONTAINS A TOTAL OF 30 JACKS IN 3 SECTIONS AS FOLLOWS: REMOTE STATIONS - 5: TRUNK LINES - 5: LOCAL OPER. POS. - 20. 8/8/40 NOV. 41			TRANSMITTER TRANSFER PANEL CONTAINS A TOTAL OF 25 RECEPTACLES IN 5 SECTIONS AS FOLLOWS: REMOTE STATIONS - 5: PARALLELING RECEPTACLES - 5: TRUNK LINES - 5: LOCAL TRANSMITTERS - 5: LOCAL OPER. POS. - 5. 8/8/40 NOV. 41		
RN-23184	GENERAL USE RN 23J 171C		RN-23192	GENERAL USE RN 23J 156B		RN-23200	GENERAL USE RN 23J 164B	
RECEIVER TRANSFER PANEL CONTAINS A TOTAL OF 70 JACKS IN 5 SECTIONS AS FOLLOWS: REMOTE RADIOPHONE STATIONS 5, REMOTE TELEGRAPH STATIONS 15, PARALLELING JACKS 10, TRUNK LINES 10, LOCAL OPERATING POSITIONS 30. 8/8/40 DEC. 41			TRANSMITTER TRANSFER PANEL CONTAINS A TOTAL OF 75 RECEPTACLES IN 5 SECTIONS AS FOLLOWS: REMOTE RADIOPHONE STATIONS - 10: REMOTE TELEGRAPH STATIONS - 20: PARALLELING RECEPTACLES - 10: TRUNK LINES - 15: LOCAL OPER. POS. - 20. 8/8/40 NOV. 41			TRANSMITTER TRANSFER PANEL CONTAINS A TOTAL OF 20 RECEPTACLES IN 3 SECTIONS AS FOLLOWS: REMOTE STATIONS - 5: TRUNK LINES - 5: LOCAL OPER. POS. - 10. 8/8/40 NOV. 41		
RN-23185	GENERAL USE RN 23J 172B		RN-23193	GENERAL USE RN 23J 157A		RN-23201	GENERAL USE RN 23J 165A	
RECEIVER TRANSFER PANEL CONTAINS A TOTAL OF 50 JACKS IN 5 SECTIONS AS FOLLOWS: REMOTE RADIOPHONE STATIONS - 5: REMOTE TELEGRAPH STATIONS - 5: PARALLELING JACKS - 10: TRUNK LINES - 5: LOCAL OPER. POS. - 25. 8/8/40 NOV. 41			TRANSMITTER TRANSFER PANEL CONTAINS A TOTAL OF 75 RECEPTACLES IN 5 SECTIONS AS FOLLOWS: REMOTE RADIOPHONE STATIONS - 15: REMOTE TELEGRAPH STATIONS - 15: PARALLELING RECEPTACLES - 10: TRUNK LINES - 15: LOCAL OPER. POS. - 20. 8/8/40 NOV. 41			TRANSMITTER TRANSFER PANEL CONTAINS A TOTAL OF 20 RECEPTACLES IN 3 SECTIONS AS FOLLOWS: TRUNK LINES - 10: LOCAL TRANSMITTERS - 5: LOCAL OPER. POS. - 5. 8/8/40 NOV. 41		
RN-23186	GENERAL USE RN 23J 173B		RN-23194	GENERAL USE RN 23J 158B		RN-23202	GENERAL USE RN 23J 166A	
RECEIVER TRANSFER PANEL. CONTAINS A TOTAL OF 30 JACKS IN 5 SECTIONS AS FOLLOWS: REMOTE RADIOPHONE STATIONS - 5: REMOTE TELEGRAPH STATIONS - 5: PARALLELING JACKS - 5: LOCAL TRANSMITTERS - 5: LOCAL OPER. POS. - 10. 8/8/40 NOV. 41			TRANSMITTER TRANSFER PANEL; CONTAINS A TOTAL OF 65 RECEPTACLES IN 5 SECTIONS AS FOLLOWS: REMOTE RADIOPHONE STATIONS 5, REMOTE TELEGRAPH STATIONS 15, PARALLELING RECEPTACLES 10, TRUNK LINES 15, LOCAL OPERATING POSITIONS 20. 8/8/40 DEC. 41			TRANSMITTER TRANSFER PANEL CONTAINS A TOTAL OF 20 RECEPTACLES IN 3 SECTIONS AS FOLLOWS: TRUNK LINES - 5: LOCAL TRANSMITTERS - 10: LOCAL OPER POS. - 5. 8/8/40 NOV. 41		
		ASSIGNED ISSUED			ASSIGNED ISSUED			ASSIGNED ISSUED
DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER

3.23-12

Class 23—Control Panels and Control Units

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
RN-23203	GENERAL USE	RN 23J 167B TRANSMITTER TRANSFER PANEL CONTAINS A TOTAL OF 15 RECEPTACLES IN 3 SECTIONS AS FOLLOWS: REMOTE STATIONS - 5; LOCAL TRANSMITTERS - 5; LOCAL OPER. POS. - 5.	23211	TBT RE 13A 612 RADIOPHONE UNIT: TELEPHONE: 10 WIRE CIRCUITS FOR TELEPHONE COMMUNICATION, SUPPLY 115 OR 230 VOLTS AC-DC. TELEGRAPH: 6 WIRE CIRCUITS FOR START STOP OF TRANSMITTING EQUIPMENTS, AND TERMINALS FOR EXTERNAL KEY. WATER-TIGHT. SIMILAR TO TYPE -23420. 10/8/40 CRY:M1-8816 CRV:T-620193 MAR. 44	CRY 23215	ZC CONTROL BOX	10/18/40	K-865098 SUB 0 NOV. 41
RN-23204	GENERAL USE	RN 23J 168A TRANSMITTER TRANSFER PANEL CONTAINS A TOTAL OF 15 RECEPTACLES IN 3 SECTIONS AS FOLLOWS: TRUNK LINES - 5; LOCAL TRANSMITTERS - 5; LOCAL OPER. POS. - 5.	23211-A	GEN USE RADIOPHONE UNIT: TELEPHONE: 10 WIRE CIRCUITS FOR TELEPHONE COMMUNICATION, SUPPLY 115 OR 230 VOLTS AC OR DC. TELEGRAPH: 6 WIRE CIRCUITS FOR START-STOP OF TRANSMITTING EQUIPMENTS, AND TERMINALS FOR EXTERNAL *FIRST PURCHASE: NXS-11239. 1/20/43 COT: AUG. 43	CAY 23216	SEE BELOW LAND LINE CONTROL UNIT. INPUT 110/115/60, .7 AMPS, 65 WATTS.  *CAY:T-7610703, SUB 4 @ TAB-5, TBK-11, TBM-6 & TBU-1. 10/23/40 T-7606584 SUB 0 AUG. 44 *SEE ABOVE		
RN-23205	GENERAL USE	RN 23J 151B RADIOPHONE TRANSFER PANEL CONTAINS A TOTAL OF 40 RECEPTACLES IN 4 SECTIONS AS FOLLOWS: REMOTE RADIOPHONE STATIONS - 15; PARALLELING RECEPTACLES 10; TRUNK LINES - 10; LOCAL OPERATING POSITIONS - 5.	23211-A	KEY. WATER-TIGHT. SAME AS -23211 EXCEPT CAU TYPE 2-052138 LEVER SWITCH IS USED INSTEAD OF NAVY TYPE -24100.	CAY 23216-A	TBK-16, TBM-9/10 HAND LINE CONTROL UNIT INPUT: 110/115/60, 0.7 AMPS, 65 WATTS. SAME AS NAVY TYPE -23216 EXCEPT FOR SLIGHT WIRING CHANGES AND CHANGE IN POSITION OF A FEW OF THE COMPONENTS. ALSO HAS ADDED A TIME DELAY RELAY.	2/17/44	T-7610703 AUG. 44 SUB 4
RN-23206	GENERAL USE	RN 23J 152A RADIOPHONE TRANSFER PANEL CONTAINS A TOTAL OF 35 RECEPTACLES IN 4 SECTIONS AS FOLLOWS: REMOTE RADIOPHONE STATIONS - 10; PARALLELING RECEPTACLES 10; TRUNK LINES - 10; LOCAL OPERATING POSITIONS - 5.	23211-B	GEN RADIO USE RE 13A612C RADIOPHONE UNIT TELEPHONE: 10 WIRE CIRCUITS FOR TELEPHONE COMMUNICATION; SUPPLY 115 OR 230V AC/DC. TELEGRAPH: 6 WIRE CIRCUITS FOR START STOP OF TRANSMITTING EQUIPMENTS & TERMINALS FOR EXTERNAL KEY. SAME AS -23211 EXCEPT EXTRA HANDSET JACK SUB-1/18/44 MAR. 44	CAY 23217	* SEE BELOW LAND LINE CONTROL UNIT. 110 VOLTS, SINGLE PHASE 25 CYCLES SUPPLY.	* TAB-5, TBK-11 & TBM-6. 10/23/40 T-7606584 SUB 0 NOV. 41	
RN-23207	GENERAL USE	RN 23J 153A RADIOPHONE TRANSFER PANEL CONTAINS A TOTAL OF 25 RECEPTACLES IN 4 SECTIONS AS FOLLOWS: REMOTE RADIOPHONE STATIONS - 5; PARALLELING RECEPTACLES 10; TRUNK LINES - 5; LOCAL OPERATING POSITIONS - 5.	23211-B	STITUTED FOR MICROPHONE AND HEADPHONE JACK. WATERPROOF WITH DOOR OPEN. ADDED TERMINAL BOARD FOR EXTRA HANDSET. REMOVED RESISTOR FROM HANDSET CIRCUIT. HANDSET IN ACCORDANCE WITH RE 9357A. HAS DIFFERENT BUT INTERCHANGEABLE START STOP SWITCH. CAN BE USED TO REPLACE -23211.	CBM 23218	WBA RE 23J1439A TRANSFER SELECTOR CONTROL UNIT. CONTAINS MANUAL SWITCHING AND RELAY CONTROLS FOR TRANSFER OF OPERATION FROM SOUNDING TO RANGING OR TO ALL-DIRECTIONAL USE AND TO SELECT LISTENING FROM THE RANGING PROJECTOR OR ALL-DIRECTIONAL PROJECTORS. 10/29/40 8048 MAR. 43 60010 ALT 0		
RN-23208	GENERAL USE	RN 23J 154A RADIOPHONE TRANSFER PANEL CONTAINS A TOTAL OF 20 RECEPTACLES IN 3 SECTIONS AS FOLLOWS: TRUNK LINES - 10; LOCAL TRANSMITTERS - 6; LOCAL OPERATING POSITIONS - 5.	CRY 23212	RAQ ANTENNA CONTROL UNIT PROVIDES CONTROL OF ANTENNA TUNING.	CAY 23219	GP-6 PILOTS CONTROL BOX INCLUDES TRANSMITTER ON-OFF SWITCH AND INDICATING LIGHT; AN ICS-RADIO MICROPHONE SWITCH; JACKS FOR MICROPHONE, KEY, THROTTLE SWITCH & HEADPHONE & HEADSET LEVEL CONTROL. EQUIPMENT POWER SUPPLY 120 VOLT 800 CYCLE & 12 OR 24 VOLTS DC. 11/9/40 P-7707504 NOV. 41 SUB 0		
RN-23209	GENERAL USE	RN 23J 155A RADIOPHONE TRANSFER PANEL CONTAINS A TOTAL OF 20 RECEPTACLES IN 4 SECTIONS AS FOLLOWS: REMOTE RADIOPHONE STATIONS - 5; PARALLELING RECEPTACLES - 6; LOCAL TRANSMITTERS - 5; LOCAL OPERATING POSITIONS - 5.	CG-23213	TBA-4 LAND LINE CONTROL UNIT.	CAY 23220	GP-6 OPERATORS CONTROL BOX INCLUDES SAME CONTROLS AS CAY-23219 EXCEPT THROTTLE SWITCH JACK; & ALSO INCLUDES TWO INTERCONNECTING RECEIVER CABLES. EQUIPMENT POWER SUPPLY 120 VOLTS 800 CYCLES & 12 OR 24 VOLTS DC.	11/9/40	P-7707503 NOV. 41 SUB 0
CDE 23210	YC CONTROL UNIT PROVIDES FOR GENERAL CONTROL OF THE EQUIPMENT & INCLUDES A COMMUNICATION RECEIVER HAVING A FREQUENCY RANGE OF 200 TO 400 KCS AND 1300 TO 30,000 KCS.		CW-23214	ZB PILOTS CONTROL UNIT INCLUDES HOMING ADAPTER ON-OFF SWITCH, A LOCAL-DISTANCE SWITCH AND A HOMING-COMMUNICATION SWITCH.	CG-23221	* SEE BELOW REMOTE CONTROL UNIT		
9/23/40	2553 ALT 0		10/17/40	ESR-677839	* CXAC, CXAF, CXAJ, CXAH, CXAO. 11/13/40 P-7762936 NOV. 41 REV 0			





3.23-14

Class 23—Control Panels and Control Units

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CBM 23235-A		QCJ-5a, QCL-4a HOIST-TRAIN REMOTE CONTROL UNIT: NAVY TYPE -23235 MODIFIED BY ADJING A 5 PDT SWITCH, A 115/78 VOLT, 25 WATT TRANSFORMER, A 3Φ, 10 MFD/PHASE CAPACITOR FOR MAINTENANCE OF TRUE BEAR- ING (MTB) ON A 36 SPEED GYRO RATIO SYSTEM, SAME AS -23235-B EXCEPT DOES NOT 11/1/43 MAR. 44	CBM 23236-B		QCJ-5a, QCL-4a HOIST-TRAIN LOCAL CONTROL UNIT: SLIGHT WIRING CHANGES IN NAVY TYPE -23236; -MODIFIED FOR EQUIPMENTS HAVING MAINTENANCE OF TRUE BEARING (MTB) FEATURE TIED IN ON A ONE (1) SPEED GYRO SYSTEM. 11/1/43 MAR. 44	CRN 23242		TCR CONTROL UNIT PROVIDES COMPLETE CONTROL OF EQUIPMENT EITHER LOCAL OR REMOTE.  5/6/41 NOV. 41
CBM 23235-A		INCLUDE GEAR BOX. ALSO -23235-B HAS MINOR WIRING CHANGES IN THE AMPLIDYNE AMPLIFIER.	CBM 23236-C		*SEE BELOW HOIST-TRAIN LOCAL CONTROL UNIT: SLIGHT WIRING CHANGES IN NAVY TYPE -23236-A -MODIFIED FOR EQUIPMENTS HAVING MAINTENANCE OF TRUE BEARING (MTB) FEATURE TIED IN ON A ONE (1) SPEED GYRO SYSTEM. *QCJ-9a, QCL-8a, QCN-4a, QCO-3a 11/1/43 MAR. 44	CBY 23243		ATA TRANSMITTER REMOTE CONTROL UNIT. HAS RECEPTACLES FOR INTERCONNECTION CABLES TO MODULATOR. HAS "TONE-CW-VOICE" CONTROL. SWITCH TO SELECT ONE OF FOUR TRANSMITTERS, TRANS- MITTER POWER "ON-OFF" SWITCH, MICROPHONE AND KEY JACKS. 5/20/41 MAR. 42
CBM 23235-B		ON A ONE (1) SPEED GYRO RATIO SYSTEM. SAME AS -23235-A EXCEPT INCLUDES GEAR BOX AND MINOR WIRING CHANGES IN AMPLI- DYNE AMPLIFIER.	CBM 23237		NDA TRANSFER SELECTOR CONTROL UNIT. CONTAINS KEYING RELAY FOR USE IN ROCHELLE SALT RANGING CIRCUIT, INTER- LOCKING RELAY TO OPEN KEYING CIRCUIT OF MAGNETO-STRICTION RANGING PROJECTOR, AND TWO RELAYS FOR REMOTE CONTROL OF START- STOP CIRCUITS AS SELECTED BY POSITION OF 3/8/41 804F 60049 ALT 0 NOV. 41	CDE 23244		YC-1 CONTROL UNIT PROVIDES FOR GENERAL CONTROL OF EQUIP- MENT AND INCLUDES A COMMUNICATION RECEIVER HAVING A FREQUENCY RANGE OF 200 TO 800 KC AND 2500 TO 23000 KC. RECEIVER IS NATIONAL COMPANY TYPE RCK-N. 7/18/41 APR. 42
CBM 23235-B		ON A ONE (1) SPEED GYRO RATIO SYSTEM. SAME AS -23235-A EXCEPT INCLUDES GEAR BOX AND MINOR WIRING CHANGES IN AMPLI- DYNE AMPLIFIER.	23237		SOUNDING AND RANGING SWITCH OF THE RANGE INDICATOR.	CAY 23245		TCE-1 REMOTE CONTROL UNIT CONTAINS START-STOP TOGGLE SWITCH, ON- OFF INDICATOR LIGHT, SINGLE CIRCUIT KEY JACK, SINGLE CIRCUIT PHONE JACK, AND TWO CIRCUIT MICROPHONE JACK. UNIT IS SPLASH-PROOF WHEN COVER IS SECURED.  8/1/41 NOV. 41
CBM 23236		QCJ-5, QCL-4 HOIST-TRAIN LOCAL CONTROL UNIT. CONTAINS KNOB FOR CONTROL OF INPUT TO CONTROL AMPLIFIER GIVING TRAIN- ING SPEEDS UP TO 4 RPM. ALSO INCLUDES HOIST-LOWER PUSH-BUTTONS, INDICATING LIGHTS, START-STOP SWITCH, STARTING RELAY FOR DYNAMO ELECTRIC AMPLIFIER UNIT 3/26/41 756G 60062 ALT 0 NOV. 41	RA-23238		XAO REMOTE CONTROL UNIT PROVIDES ON/OFF PUSH BUTTON CONTROL OF TRANSMITTER & CONTROL FOR TYPE OF EMIS- SION & INCLUDES A WEATHER PROOF CASE TO PERMIT OUTSIDE USE.  4/21/41 NOV. 41	CC-23246		TCX REMOTE CONTROL UNIT: PROVIDES ON-OFF CONTROL & INDICATION FOR TRANSMITTER AND INCLUDES 4 JACKS FOR MICROPHONE, KEY, PHONES AND LOUSPEAKER.  8/11/41 4MC19A1 APR. 42
AND ASSOCIATED THERMAL OVER- LOAD CUTOUS.		23236	RA-23239		XAQ REMOTE CONTROL UNIT PROVIDES ON/OFF PUSH BUTTON CONTROL OF TRANSMITTER AND CONTROL FOR TYPE OF EMISSION. SAME AS RA-23238 EXCEPT IN- CLUDES A CASE FOR INSIDE OPERATION.  4/21/41 NOV. 41	CRV 23247		AYA, AYA-1 CONTROL UNIT SWITCHES FOR POWER AND ALSO AYC "ON-OFF", CONTROLS FOR ADJUSTMENT OF CIRCLE SIZE AND RECEIVER GAIN, FLOTS FOR SCREWDRIVER ADJUSTMENT OF FOCUS, INTENSITY, HORIZONTAL CENTER, AND VERTICAL CENTER. CABLES ENTER ONE ON 9/29/41 620436-501 K-866182 SUB 0 MAR. 43
CBM 23236A		*SEE BELOW 55RE23J1449A HOIST-TRAIN LOCAL CONTROL UNIT: CONTAINS KNOB FOR CONTROL OF INPUT TO CONTROL AMPLIFIER GIVING TRAINING SPEEDS UP TO 4 RPM. ALSO INCLUDES HOIST- LOWER PUSH BUTTONS, INDICATING LIGHTS, START-STOP SWITCH, STARTING RELAY FOR MOTOR-DYNAMO AMPLIFIER UNIT AND ASSOCI- ATED THERMAL OVERLOAD CUT-OUT. ELECTRI- CALLY AND MECHANICALLY INTERCHANGEABLE WITH BASIC NUMBER, BUT CASE MATERIAL IS SHEET METAL INSTEAD OF CAST ALUMINUM. *QCJ-9, QCL-8, QCN-4, QCO-3 10/24/42 756K CBM:60176, ALT 0 MAR. 44	CG-23240		TCL CONTROL UNIT PROVIDES A FILTER FOR THE ROTARY CON- VERTER.  4/21/41 4HY32A1 DEC. 41.	CRY-23247		AYA, AYA-1 CONTROL UNIT SWITCHES FOR POWER AND ALSO AYC "ON-OFF", CONTROLS FOR ADJUSTMENT OF CIRCLE SIZE AND RECEIVER GAIN, FLOTS FOR SCREWDRIVER ADJUSTMENT OF FOCUS, INTENSITY, HORIZONTAL CENTER, AND VERTICAL CENTER. CABLES ENTER ONE ON 9/29/41 620436-501 K-866182 SUB 0 MAR. 43
ATED THERMAL OVERLOAD CUT-OUT. ELECTRI- CALLY AND MECHANICALLY INTERCHANGEABLE WITH BASIC NUMBER, BUT CASE MATERIAL IS SHEET METAL INSTEAD OF CAST ALUMINUM. *QCJ-9, QCL-8, QCN-4, QCO-3		23240	CG-23241		*SEE BELOW CONTROL UNIT FOR USE WITH EITHER 4-WIRE OR 6-WIRE CONTROL CIRCUITS. PROVIDES COMPLETE CONTROL OF THE EQUIPMENT EXCEPT FOR FREQUENCY ADJUSTMENTS.  5/1/41 4MY27A1 M-7465454 REV 0 NOV. 41	CTF 23248		AYC RE 13A 609A REMOTE CONTROL UNIT PROVIDES SWITCHING AND OUTPUT CONTROL OF TYPE -50087 DUAL AMPLIFIER.  10/5/41 DEC. 41
		23241	CG-23241		*SEE BELOW CONTROL UNIT FOR USE WITH EITHER 4-WIRE OR 6-WIRE CONTROL CIRCUITS. PROVIDES COMPLETE CONTROL OF THE EQUIPMENT EXCEPT FOR FREQUENCY ADJUSTMENTS.  5/1/41 4MY27A1 M-7465454 REV 0 NOV. 41	CTF 23248		AYC RE 13A 609A REMOTE CONTROL UNIT PROVIDES SWITCHING AND OUTPUT CONTROL OF TYPE -50087 DUAL AMPLIFIER.  10/5/41 DEC. 41



Class 23—Control Panels and Control Units

3.23-15

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CG-23249	TCL-1		CRV 23253	ARB		CG-23259-B	QCJ-8a, QCL-7a	
REMOTE CONTROL UNIT;			REMOTE TUNING CONTROL UNIT;			LOCAL CONTROL UNIT		
			CONSISTS OF DIAL ASSEMBLY AND CONTROL HEAD.			SLIGHT WIRING CHANGES IN NAVY TYPE -23259; -MODIFIED FOR EQUIPMENTS HAVING MAINTENANCE OF TRUE BEARING (MTB) FEATURE TIED IN ON A ONE (1) SPEED GYRO SYSTEM.		
11/25/41	M-7466591		12/8/41	CRV:MI-8689-2	M-421967-501	11/1/43		
MAR. 42	REV 0		OCT. 42		REV 2	NOV. 43		
CG-23250	TCL-1		CRV 23254	ARB		CMT 23260	QCJ-8, QCL-7	
TWO CHANNEL CONTROL UNIT;			PILOTS CONTROL BOX;			REMOTE CONTROL UNIT;		
			CONSISTS OF 2 SWITCHES, ONE POTENTIOMETER, AND RECEPTACLE.			INCLUDES A TRAINING CONTROL HAND GENERATOR, HOIST-LOWER SWITCH, AN ILLUMINATED BEARING REPEATER AND A GYRO REPEATER. SIMILAR TO CMT-23175 EXCEPT FOR INTERNAL CONSTRUCTION.		
11/25/41	M-7946805		12/8/41	CRV:MI-8689-1	P-721024-501	12/31/41		CRV:W-305207-5
MAR. 42	REV 0		OCT. 42		REV 6	MAR. 42		SUB 0
CBY 23251	ARA		CRV 23255	ARB		CMT 23260-A	QCJ-8a, QCL-7a	
RECEIVER CONTROL BOX;			LOCAL TUNING CONTROL UNIT;			REMOTE CONTROL UNIT		
FOR REMOTE CONTROL OF 3 RADIO RECEIVERS. INCLUDES VOLUME CONTROLS, A-TEL-B-TEL SWITCHES, TUNING CONTROLS, MCW-OFF-CW SWITCHES, RECEPTACLES FOR INTERCONNECTING CABLES. DOES NOT INCLUDE CALIBRATED DIAL, WHICH CAN BE EASILY ATTACHED.						NAVY TYPE -23260 MODIFIED BY ADDING A 5 PDT SWITCH, A 115/78 VOLT, 25 WATT TRANSFORMER, A SYNCHRO 3Φ-10 MFD/PHASE CAPACITOR AND BY REPLACING THE 5G SYNCHRO BY A 5 DG SYNCHRO FOR MAINTENANCE OF TRUE BEARING (MTB) ON A 36		
12/4/41	5014-4-A		12/8/41		K-856798	11/1/43		
MAR. 42	9064-4-A		MAR. 42			NOV. 43		
WHICH IS CONSIDERED PART 23251			CRV 23256	ARB		CMT 23260-A		
OF THE APPLICABLE RECEIVER USED.			OPERATOR'S CONTROL BOX;			SPEED GYRO RATIO SYSTEM. SAME AS -23260-B EXCEPT NO GEAR BOX.		
			CONTAINS 3 SWITCHES, ONE POTENTIOMETER AND JACK.					
			12/8/41	CRV:8689-A-2	P-721108-501			
			OCT. 42		REV 4			
CBM 23252	QCQ, QCR	55RE23J1445	CRV 23257	ARB		CMT 23260-B	QCJ-8a, QCL-7a	
HOIST TRAIN LOCAL CONTROL UNIT;			LOCAL REMOTE CONTROL SHAFT;			REMOTE CONTROL UNIT		
CONTAINS *NOB FOR CONTROL OF INPUT TO CONTROL AMPLIFIER GIVING TRAINING SPEEDS UP TO 4 RPM. ALSO INCLUDES HOIST-LOWER PUSH BUTTONS, INDICATING LIGHTS, START-STOP SWITCH, STARTING RELAY FOR DYNAMO-12/6/41 756 H CBM:60962 ALT 0			FLEXIBLE SHAFT. APPROX. 144" LONG, KNOB SHAFT.			NAVY TYPE -23260 MODIFIED BY ADDING A 5 PDT SWITCH, A 115/78 VOLT, 25 WATT TRANSFORMER, A SYNCHRO 3Φ, 10 MFD/PHASE CAPACITOR, BY REPLACING THE 5G SYNCHRO BY A 5DG SYNCHRO AND BY ADDING A 1/56 GEAR BOX FOR MAINTENANCE OF TRUE BEARING		
AUG. 43			12/8/41		M-421990	11/1/43		
			MAR. 42		SUB 0	NOV. 43		
ELECTRIC AMPLIFIER UNIT, CBM 23252			CRV 23258	ATB		CMT 23260-B		
AND ASSOCIATED THERMAL OVERLOAD CUTOUT. SAME AS CBM-23236 EXCEPT THERMAL OVERLOAD CUTOUT IS RATED AT 1.2 AMP.			PILOT'S CONTROL BOX;			ON A ONE (1) SPEED GYRO RATIO SYSTEM. SAME AS -23260-A EXCEPT FOR GEAR BOX.		
			CONSISTS OF BOX WITH TOGGLE SWITCH, CHANNEL SWITCH, JACK, RECEPTACLE AND KEY ASSEMBLY.					
			12/8/41	CRV:MI-8767-3	P-721039-501			
			OCT. 42		SUB 7			
CBM 23252-A	QCQ-a, QCR-a		CG-23259	QCJ-8 QCL-7		CBY 23261	ARA	
HOIST-TRAIN-LOCAL CONTROL UNIT;			LOCAL CONTROL UNIT;			RECEIVER CONTROL BOX;		
NAVY TYPE -23252 MODIFIED FOR MTB ON A 36 SPEED GYRO SYSTEM.			INPUT 440/3/60, 0.5 KVA, OUTPUT 440/3/60 TO MOTOR GENERATOR, AND PROVIDES FOR CONTROL OF POWER TO FIELD OF DYNAMO ELECTRIC AMPLIFIER SET BY BUILT-IN VACUUM TUBE CONTROL CIRCUIT.			SINGLE UNIT. FOR CONTROL OF ONE RECEIVER. HAS CONTROLS FOR CW-OFF-MCW SWITCH, A-TEL-B-TEL SWITCH, VOLUME, AND TUNING. HAS PROVISIONS FOR ONE INTERCONNECTING CABLE, AND FOR READY ATTACHMENT OF APPROPRIATE TUNING DIAL FOR FREQUENCY.		
CANCELLED - MODIFICATIONS NOT NEEDED			12/31/41		CRV:W-305207-1	1/11/42		CBY:7043-3-A
			APR. 42		SUB 2	MAR. 42		9064-4-A
11/1/43			CG-23259-A	QCJ-8a, QCL-7a		USED. ASSIGNMENT DOES NOT		23261
MAR. 44			LOCAL CONTROL UNIT			INCLUDE THE REMOVABLE		TUNING DIAL.
			NAVY TYPE -23259 MODIFIED FOR MTB ON A 36 SPEED GYRO SYSTEM.					
			CANCELLED - MODIFICATIONS NOT NEEDED					
11/1/43			11/1/43					
MAR. 44			NOV. 43					

DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER
------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------

CONFIDENTIAL

NAVSHIPS 900,109

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CBM 23262	QCJ-6,QCL-5	55RE23J1443	CRV 23264			CAN 23266-B		
<p>HOIST TRAIN REMOTE CONTROL UNIT; CONTAINS MANUALLY OPERATED SYNCHRO-GENERATOR FOR CONTROL OF DYNAMO ELECTRIC AMPLIFIER UNIT THRU THE CONTROL AMPLIFIER. THIS UNIT ALSO INCLUDES THE CONTROL AMPLIFIER, BEARING AND GYRO RE-1/11/42 757T CBM:60066 AUG. 43 ALT 0</p>			<p>FLEXIBLE SHAFT FROM A FIXED POINT NEAR HELMSMAN'S COMPASS. OUTPUT 115 VOLTS, 35 WATTS, 0.3 AMP. SAME AS -22338 EXCEPT HAS FLEXIBLE DRIVE INSTEAD OF SYNCHRO DRIVE.</p>			<p>CIRCUIT AND THEREFORE THE ELIMINATION OF THE DD-PC SWITCH ON THE TOP PANEL. SAME AS CAN-23266-A FOR SLIGHT MODIFICATIONS IN TERMINAL BOARD, ELECTRICALLY AND MECHANICALLY INTERCHANGEABLE WITH CAN-23266-A.</p>		
PEATER ASSEMBLY, HOIST AND LOWER PUSH BUTTONS, START-STOP CONTROL, AND OTHER MISCELLANEOUS CONTROLS. SAME AS CBV-23235 EXCEPT FOR OMISSION OF THE JK INDEX	CBH 23262		CRV 23264A	QCJ		CAN 23266-C	QFA-5	
<p>REPEATER TRAINING CONTROL UNIT: INPUT 115/1/60, 100 WATTS. OUTPUT CONTROLLED BY HANDWHEEL ON PANEL. SUPPLIES 115/1/60, 35 WATTS, .3 AMP TO TRAINING MOTOR. HANDWHEEL IS COUPLED TO THE BEARING REPEATER MOBILE POINTER. OUTER SCALE IS FIXED, AND INNER MOVABLE 11/23/42 W-305258-3 MAR. 44 SUB 0</p>			<p>(CANCELLED)</p>			<p>SHIP STEERING STAND SAME AS -23266-B EXCEPT (1) COMPASS DIAL AND SOUND BEARING INDICATOR ARE EQUIPPED WITH INDIRECT RED LIGHTNING (2) CIRCUIT MODIFIED TO MINIMIZE VOLTAGE FLUCTUATION WITH MANEUVER OF ATTACK TEACHER SHIP (3) MODIFICATION OF MAIN TERMINAL BOARD. 6/2/44 811944 SEPT. 44 REV 0</p>		
CBM 23262-A	QCJ-6a,QCL-5a		CRV 23264A			CAN 23266-C		
<p>HOIST-TRAIN REMOTE CONTROL UNIT: NAVY TYPE -23262 MODIFIED BY ADDING A 5 PDT SWITCH, A 115/78 VOLT, 25 WATT TRANSFORMER, A 3Φ-10 MFD/PHASE CAPACITOR FOR MAINTENANCE OF TRUE BEARING (MTB) ON A 36 SPEED GYRO RATIO SYSTEM. SAME AS -23262-B EXCEPT DOES NOT 11/1/43 MAR. 44</p>			<p>SCALE IS DRIVEN BY A FLEXIBLE SHAFT FROM A FIXED POINT NEAR HELMSMAN'S COMPASS. IDENTICAL TO CRV-23264 EXCEPT THE COMPONENT PARTS ARE REARRANGED ON THE CHASSIS.</p>			<p>ELECTRICALLY &amp; MECHANICALLY INTERCHANGEABLE WITH -23266-B.</p>		
INCLUDE GEAR BOX. ALSO, -23262-B HAS MINOR WIRING CHANGES IN THE AMPLIDYNE AMPLIFIER.	CBM 23262-A		CRV 23265	WEA-1		CAN 23267	QFA	
<p>COMPASS REPEATER CONTROL UNIT: CONTAINS A MANUALLY OPERATED COMPASS TYPE DIAL GEARED TO A HANDWHEEL. UNIT IS MECHANICALLY COUPLED BY A FLEXIBLE SHAFT TO THE INNER DIAL OF THE BEARING INDICATOR. FOR USE AT HELMSMAN'S POSITION. 2/3/42 NI-8989 W-305258-5 APR. 42 SUB 0</p>			<p>REPEATER CONTROL UNIT;</p>			<p>2/13/42 MAR. 42</p>		
CBM 23262-B	QCJ-6a,QCL-5a		CAN 23266	QFA		CAN 23268	QFA	
<p>HOIST-TRAIN REMOTE CONTROL UNIT: NAVY TYPE -23262 MODIFIED BY ADDING A 5 PDT SWITCH, A 115/78 VOLT, 25 WATT TRANSFORMER, A 3Φ-10 MFD/PHASE CAPACITOR. MINOR WIRING CHANGES IN THE AMPLIDYNE AMPLIFIER AND A 1/36 GEAR BOX FOR MAINTENANCE OF TRUE BEARING (MTB) 11/1/43 MAR. 44</p>			<p>HELMSMAN'S STAND;</p>			<p>POWER CONTROL UNIT; PROVIDES FOR START-STOP CONTROL OF MOTOR AND, BY BUILT-IN RECTIFIER, CONTROLS FIELD OF THE 2 PHASE GENERATOR. 2/13/42 811942 MAR. 44 REV 0</p>		
ON A ONE (1) SPEED GYRO RATIO SYSTEM. SAME AS -23262-A EXCEPT INCLUDES GEAR BOX AND MINOR WIRING CHANGES IN AMPLIDYNE AMPLIFIER.	CBM 23262-B		CAN 23266-A	QFA-1		CAN 23268A	QFA-1	
<p>HELMSMAN'S STAND; SAME AS BASIC NUMBER EXCEPT 1. ALTERATION TO TURNING CIRCLE INDEPENDENT OF SPEED, 2. ADDITION OF RUDDER RELAY, 3. ADDITION OF A SPEED DECAY WHEN TURNING &amp; 4. THE ELIMINATION OF ELECTRO-MAGNETIC DAMPING IN THE DESTROYER RUDDER CIRCUIT 11/4/42 811944 MAR. 44 REV 0</p>			<p>AND THEREFORE THE ELIMINATION OF THE DD-PC SWITCH ON THE TOP PANEL.</p>			<p>POWER CONTROL UNIT; PROVIDES FOR START-STOP CONTROL OF MOTOR AND CONTROL OF GENERATOR OUTPUT VOLTAGE. SAME AS BASIC NUMBER EXCEPT THE CHANGE IS THE ELIMINATION OF THE ELECTROMECHANICAL VOLTAGE REGULATOR TO SELF-EXCITATION OF THE GENERATOR THROUGH A VACUUM 11/4/42 811942 MAR. 44 REV 0</p>		
ANTENNA CONTROL UNIT; PROVIDES CABLE CONNECTIONS TO ANTENNA ASSEMBLY, TRANSMITTER AND COMPASS REPEATER. HAS CONTROLS FOR STAND BY, MANUAL, GYRO AND OFF OPERATION. ALSO CONTAINS HAND SET, SHIP COURSE CONTROL.	CRV 23263	YE-1	CAN 23266-B	QFA-3		CAN 23268-B	QFA-3	
<p>2/2/42 CRV:NI-8523 CRV:T-620776 AUG. 42 REV 0</p>			<p>STEERING STAND SAME AS CAN-23266 EXCEPT (1) ALTERATION TO TURNING CIRCLE INDEPENDENT OF SPEED, (2) ADDITION OF RUDDER RELAY, (3) ADDITION OF A SPEED DECAY WHEN TURNING, AND (4) THE ELIMINATION OF ELECTRO-MAGNETIC DAMPING IN THE DESTROYER RUDDER 8/12/43 81194 MAR. 44 REV 0</p>			<p>POWER CONTROL UNIT; PROVIDES FOR START-STOP CONTROL OF MOTOR AND CONTROL OF GENERATOR OUTPUT VOLTAGE. SAME AS BASIC NUMBER EXCEPT THE CHANGE IS THE ELIMINATION OF THE ELECTROMECHANICAL VOLTAGE REGULATOR TO SELF-EXCITATION OF THE GENERATOR THROUGH A VACUUM 8/2/43 811942 MAR. 44 REV 0</p>		
REPEATER TRAINING CONTROL UNIT: INPUT 115/1/60, 100 WATTS. OUTPUT CONTROLLED BY HANDWHEEL ON PANEL. SUPPLIES 115/1/60 TO TRAINING MOTOR. HANDWHEEL IS COUPLED TO THE BEARING REPEATER MOVABLE POINTER. OUTER SCALE IS FIXED AND INNER MOVABLE SCALE IS DRIVEN BY A 2/3/42 NI-8988 CRV:M-305258-3 MAR. 43 SUB 0	CRV 23264	WEA-1	ASSIGNED ISSUED			ASSIGNED ISSUED		

Class 23—Control Panels and Control Units

3.23-17

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
-----------------------	--------------------	-------------------------------	-----------------------	--------------------	-------------------------------	-----------------------	--------------------	-------------------------------

CAN 23268-B  
TUBE RECTIFIER OPERATING ON THE GENERATOR OUTPUT VOLTAGE. SAME AS CAN-23268-A EXCEPT FOR ADDITION OF FOUR 15 MFD CAPACITORS TO IMPROVE POWER FACTOR AND PHASE VOLTAGE BALANCE.

CRV23271-A  
"OVER-THE-BOW" INDICATOR LAMP.

CRV23276 RBP  
ANTENNA PANEL;  
CONSISTS OF A PLUG BOARD HAVING SEVEN TWO-PIN RECEPTACLE.

3/15/42 MI-7569 M-422490  
OCT. 42 SUB 0

CAN23268-C QFA-5  
POWER CONTROL UNIT  
SAME AS -23268-B EXCEPT ELECTRONIC VOLTAGE REGULATOR HAS BEEN ADDED TO INSURE ACCURACY OF CALIBRATION OF THE INSTRUMENT AND TO ELIMINATE NECESSITY OF FIELD CURRENT ADJUSTMENTS WITH VARYING TEMPERATURES. ELECTRICALLY & MECHANICALLY  
6/2/44 811942  
SEPT. 44 REV 0

CGG 23272 AMA  
CONTROL UNIT:  
HAS ON-OFF SWITCH. VOLUME CONTROL FOR RECEIVER, MICROPHONE JACK, PILOT'S TELEPHONE JACK, CO-PILOT'S TELEPHONE JACK, MICROPHONE BATTERY, MICROPHONE TRANSFORMER, 8-CONTACT RECEPTACLE FOR INTERCONNECTING CABLE. UNIT HAS TWO MOUNTING  
3/9/42 BC-722-T1 CGG:63C43905  
OCT. 42

CCT 23277 RBM, 1 & 2  
CONTROL UNIT:  
FOR 25 CYCLE OPERATION. HAS FOLLOWING CONTROLS FOR MEDIUM FREQUENCY RADIO RECEIVER: ON/OFF SIDE-TONE SWITCH, POWER SWITCH MARKED OFF/FIL ON/PLATE ON, INDICATING LIGHT. ALSO INCLUDES IDENTICAL SET OF CONTROLS FOR THE HIGH  
3/25/42 CAT:1-7607918  
APR. 42 SUB 0

CAN23268-C  
INTERCHANGEABLE WITH -23268-B.

EARS. MOUNTS ON ANY FLAT SURFACE USING 4 MOUNTING HOLES. CGG23272

FREQUENCY TRANSMITTER. CCT23277  
IN ADDITION THERE ARE,  
MAIN POWER ON/OFF SWITCH, INDICATING LIGHT, AND PHONE TRANSFER SWITCH.

CG-23269 \* SEE BELOW  
LAND LINE CONTROL UNIT;  
SUPPLY: 110/1/60, 2.5 AMPS, 270 WATTS. SAME AS CG-23215 EXCEPT FOR ADDITION OF A RESISTOR AND INCREASED RATING OF THE POWER TRANSFORMER.

\* TAJ-13, TCJ-1  
2/22/42 CG:4 MC14A2 CG:P-7765133  
AUG. 43 REV 9

CNA 23273 RBN  
MIXER-CALIBRATOR UNIT:  
INCLUDES CRYSTAL OSCILLATOR FOR CALIBRATING ASSOCIATED RECEIVER AT 4235 KC AND FIRST FOUR HARMONICS, INDICATING LIGHT TO SHOW OPERATING RECEIVER, PUSH BUTTON TO SELECT ANY RECEIVER OR ALL FIVE RECEIVERS AT ONCE, OUTPUT JACK FOR  
3/12/42  
OCT. 42

CCT 23278 RBM, 1 & 2  
CONTROL UNIT:  
FOR 60 CYCLE OPERATION. HAS FOLLOWING CONTROLS FOR MEDIUM FREQUENCY RADIO RECEIVER: ON/OFF SIDE TONE SWITCH, POWER SWITCH MARKED OFF/FIL ON/PLATE ON, INDICATING LIGHT. ALSO INCLUDES IDENTICAL SET OF CONTROLS FOR THE HIGH FREQUENCY  
3/25/42 CAT:1-7607918  
APR. 42 SUB 0

COL 23270 \* SEE BELOW  
REMOTE CONTROL UNIT:  
CONTROLS OPERATION OF RECEIVER AND TRANSMITTER (NAVY TYPES COL-46159 AND COL-52245 RESPECTIVELY). HAS BUILT-IN SPEAKER, HAS SWITCH IN ORDER THAT EARPHONES MAY BE USED.  
\* TCS, -1, -2, -3, -4  
3/6/42 314M 654A-2  
AUG. 42

HEADPHONES, PROVISIONS CNA23273  
FOR FIVE INTERCONNECTING CABLES (ONE EACH FOR THE FIVE RECEIVERS). OPERATES FROM 110/1/60, 0.5 AMPS, 50 WATTS.

TRANSMITTER. IN ADDITION THERE ARE MAIN POWER ON/OFF SWITCH, INDICATING LIGHT, AND PHONE TRANSFER SWITCH. CCT23278

CCY 23270-A TCS-6  
REMOTE CONTROL UNIT:  
INCLUDES BUILT-IN SPEAKER, AND SWITCH SO THAT EARPHONES MAY BE USED. SAME AS BASIC NUMBER EXCEPT FOR TYPE OF RESISTOR TERMINALS USED ON THE RESISTOR BOARD.

5/18/43 314M COL:654A-2  
AUG. 43

CEY 23274 CX80  
SWITCHING UNIT:  
PROVIDES MANUAL OR AUTOMATIC SWITCHING EITHER ONE OF TWO INPUT CIRCUITS ALTERNATELY INTO AN AMPLIFIER WITH SYNCHRONIZED SWITCHING OF 10 EXTERNAL POWER CIRCUITS.

3/13/42  
APR. 42

CBM 23279 WCA  
TRAINING REMOTE CONTROL UNIT: INCLUDES HAND LEVER OPERATED SWITCH AND RESISTORS FOR CONTROL OF THE FIELD OF MOTOR GENERATOR CBP-21356, THE PROJECTOR AND CYRO REPEATER ASSEMBLY. ALSO INCLUDES THE LOUD SPEAKER OF THE RANGING OR LISTENING SYSTEM. HAS TWO  
4/5/42 757RJ CBM:60096  
JUNE 42 ALT 1

CRV 23271 YG  
ANTENNA CONTROL UNIT:

3/2/42  
APR. 42

CRV 23275 RBP  
POWER CONTROL PANEL:  
PROVIDES FOR INDIVIDUAL CONTROL OF THE ASSOCIATED THREE RECEIVERS, TONE KEYS OR AUDIO AMPLIFIER. INCLUDES ON-OFF SWITCH, FILAMENT RHEOSTAT, FUSES, METER PUSH SWITCHES FOR EACH OF THESE UNITS. ALSO INCLUDES BIAS VOLT METER, FILAMENT  
3/15/42 MI-7565 A P-720997  
OCT. 42 SUB 0

CBM 23279  
INDICES ON THE PROJECTOR BEARING DISC. ONE FOR QC AND ONE FOR JK, 180 DEGREES APART, BUT THE QC INDEX IS MASKED.

CRV 23271-A YG  
ANTENNA CONTROL UNIT  
INPUT: 115/1/60. FUNCTIONS: KEYING TRANSMITTER AND MAINTENANCE OF PROPER RELATIONSHIP BETWEEN POSITION OF ANTENNA, COURSE OF SHIP AND THE KEYED SIGNAL. SAME AS NAVY TYPE -23271 EXCEPT HAS PROVISIONS FOR "OVER-THE-BOW" KEYING OF  
2/26/44  
MAR. 44

VOLTMETER, AND PLATE CURRENT MILLIAMMETER  
WHICH CAN BE SWITCHED TO UNIT UNDER TEST BY MEANS OF THE PUSH BUTTONS. CRV23275

CBM 23279A WCA  
TRAINING REMOTE CONTROL UNIT: INCLUDES HAND LEVER OPERATED SWITCH AND RESISTORS FOR CONTROL OF THE FIELD OF MOTOR-GENERATOR CBP-21356, THE PROJECTOR AND CYRO REPEATER ASSEMBLY. ALSO INCLUDES THE LOUD SPEAKER OF THE RANGING OR LISTENING SYSTEM. HAS TWO  
4/5/42 CBM:757R CBM:60,096  
AUG. 42 ALT 1

DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER
------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------

CONFIDENTIAL

NAVSHIPS 900,109

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
INDICES ON THE PROJECTOR BEARING DISC, ONE FOR QC AND ONE FOR JK, 180 DEGREES APART. IDENTICAL WITH CBM-23279 EXCEPT QC INDEX IS NOT MASKED.		CBM 23279A	INPUT 115/1/60 AT .65 AMP AND 56 WATTS.		CBM 23284	CRM 23288 TDF		T-1192 SUB I
						4/29/42		
						MAR. 43		
CRR 23280 ATD			CFL 23285 MN			CFT 23289 YA-1		
REMOTE CONTROL UNIT; INCLUDES A STANDBY-OFF-CODE SWITCH, A KEY, A 4 CHANNEL SELECTOR SWITCH AND A TRANSMITTER INDICATOR BUTTON.			REMOTE CONTROL UNIT; CONSISTS OF NAVY ON-OFF SWITCH, GREEN AND RED PILOT LAMPS, HANDSET VOLUME CONTROL, AND LOUDSPEAKER VOLUME CONTROL. PROVIDES COMPLETE REMOTE CONTROL AT WAVE DISTANCE UP TO 75 FEET. INCLUDES 75 FEET OF WATER-PROOF CABLE AND PLUG-IN PRO-			LOCAL CONTROL UNIT; INPUT: 100 TO 125 VOLTS /1/50 TO 60 CYCLES, 1.3 AMPS. 130 WATTS. CONSISTS OF A TYPE CFT-20148. RECTIFIER POWER UNIT, TYPE CFT-50108. CONSTANT OUTPUT AMPLIFIER, AND A TYPE CAT-53095 EQUALIZER.		
4/9/42		L-71879 B	4/13/42		CFL:1410-B	5/8/42		CFT:F-34598-2C
JUNE 42			MAR. 43			NOV. 43		
CID 23281 TCL-2			VISIONS FOR CW-51032 AND CUL-49175.		CFL23285	CFT- 23289-A YA-2		
REMOTE CONTROL UNIT; CONSISTS OF TWO LAMPS FOR INDICATION OF ON-OFF OF THE POWER AND THE TRANSMITTER, 2 KEYING INDICATOR LAMPS (RELAY), RELAY 2), A POWER SWITCH, TRANSMITTER SWITCH AND A RECEIVER KEY CIRCUIT REVERSING SWITCH.						LOCAL CONTROL UNIT; INPUT: 100 TO 125/1/50 TO 60, 1.3 AMPS. 130 WATTS. CONSISTS OF A TYPE CFT-20148 RECTIFIER POWER UNIT, TYPE CFT-23290 LOCAL CONTROL PANEL, TYPE CFT-29171 RELAY PANEL, TYPE CFT-50108. CONSTANT OUTPUT AMPLIFIER, AND A TYPE CTH-53095		
4/10/42		A-1007				11/5/43		F-34598-2C
MAR. 43						JAN. 45		
CID 23282 TCL-2			CFL- 23285-A MN-5			EQUALIZER. SAME AS BASIC NUMBER EXCEPT EQUALIZER MADE BY DIFFERENT COMPANY.		
FILTER AND CONTROL UNIT; 2 CHANNEL (235 CPS AND 1000 CPS). INPUT 110 VOLTS, 60 CYCLES AC. 50 WATTS. CONSISTS OF A FILTER SECTION AND AN OSCILLATOR SECTION WITH A COMMON POWER SUPPLY THE 2 FILTER SECTIONS ARE CONNECTED TO A COMMON 500 OHM INPUT LINE. THE OUTPUT			REMOTE CONTROL UNIT; SAME AS -23285 EXCEPT IS MADE OF DRAWN STEEL INSTEAD OF BRONZE CASTING. LIGHTER IN WEIGHT.			CFT- 23289-A		
4/10/42		A-1005						
JUNE 42			4/6/44					
			JULY 44					
			CBM 23286 WEA-2			CFT 23290 YA-1		
			REMOTE CONTROL UNIT; INCLUDES A MECHANICAL REMOTE CONTROL FOR TRAINING THE PROJECTOR FROM THE BRIDGE AND FOR INDICATING THE PROJECTOR BEARING CONNECTION FROM REMOTE CONTROL UNIT TO HOIST-TRAIN UNIT IS BY A FLEXABLE STEEL SHAFT. INDICATING LIGHT ARE PROVIDED TO			LOCAL CONTROL PANEL; INPUT 100 TO 125 VOLTS /1/50 TO 60 CYCLES, .45 AMPS, 40 WATTS. PROVIDES INTERCOMMUNICATION WITH AND CONTROL OF TYPE CFT-52263 RADIO TRANSMITTER FROM A REMOTE STATION.		
			4/16/42		CBM:386,886	5/8/42		CFT:F-35773-2A
			AUG. 42		CBM:60153	NOV. 43		1108
			ALT 0					
			INDICATE UP OR DOWN		CBM 23286	CFT 23291 YA-1		
			POSITION OF PROJECTOR SHAFT. FOR USE IN 115 OR 230 VOLTS DC EQUIPMENTS. SAME AS CBM-23311 EXCEPT FOR INDICATOR LIGHT POTENTIOMETER.			REMOTE CONTROL UNIT; INPUT 100 TO 125 VOLTS /1/50 TO 60, .65 AMPS, 65 WATTS. CONSISTS OF A TYPE CFT-23292 REMOTE CONTROL PANEL AND A TYPE CFT-50107, AUDIO AMPLIFIER.		
						5/8/42		CFT:F-34597-2 C
						NOV. 43		1068
			CRY 23287 QCP			CFT 23292 YA-1		
			REMOTE TRAINING CONTROL; UNIT: INPUT 115/1/60, .35 AMP, 40 WATTS OUTPUT CONTROLLABLE TRAINING POWER, 0 TO 115 VOLTS, 60 CYCLES TO TRAINING MOTOR.			REMOTE CONTROL PANEL; INPUT 100 TO 125/1/50 TO 60, .45 AMPS 40 WATTS. PROVIDES INTERCOMMUNICATION WITH AND CONTROL OF TRANSMITTER TYPE CFT-52263 AT A DISTANT TRANSMITTING STATION.		
			4/23/42		MI-16702	5/8/42		CFT:F-34465-2 B
			MAR. 43		W-305636 SUB 0	NOV. 43		1118
			CRY- 23287-A QCM,QCX,QCY,QCZ			RYN-23293 GENERAL USE RN 25J 180A		
			REMOTE TRAINING CONTROL UNIT; SAME AS -23287 EXCEPT CHASSIS IS NARROWER. ELECTRICALLY AND MECHANICALLY INTERCHANGEABLE WITH -23287.			RECEIVER TRANSFER PANEL; CONTAINS TOTAL OF 70 RECEPTACLES IN 5 SECTIONS AS FOLLOWS: REMOTE RADIOPHONE STATIONS -10, REMOTE TELEGRAPH STATIONS -15, PARALLELING JACKS -10, TRUNK LINES -10, LOCAL OPERATING POSITIONS -25.		
			2/10/43		M-16702-A	6/3/42		
			JAN. 45		W-305636-10	AUG. 42		
			ASSIGNED		SUB. 0			
			ISSUED					

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
-----------------------	--------------------	-------------------------------	-----------------------	--------------------	-------------------------------	-----------------------	--------------------	-------------------------------

**RN-23294** GENERAL USE RN 23J 181A  
TRANSMITTER TRANSFER  
PANEL: CONTAINS A TOTAL OF 60 RECEPT-  
ACLES IN 5 SECTIONS AS FOLLOWS: REMOTE  
RADIOPHONE STATIONS -10, REMOTE TELE-  
GRAPH STATIONS -15, PARALLELING JACKS  
-10, TRUNK LINES -10, LOCAL OPERATING  
POSITIONS -15.  
6/5/42  
AUG. 42

**CW-23295** \* SEE BELOW  
HI CARRIER TELEPHONE  
TERMINAL PANEL: (EAST) INPUT 115/1/60,  
50 WATTS. TRANSMITTER BRANCH 7400 TO  
10150 CYCLES IMPEDANCE, 600 OHMS INPUT  
IMPEDANCE, 600 OHMS OUTPUT IMPEDANCE.  
RECEIVING BRANCH 4150 TO 6900 CPS, 600  
\* UHF REMOTE CONTROL CIRCUITS  
5/29/42 CW:X-68621A, SD-64081-02  
MAR. 43 LISTS 1 & 2

**CW23295**

OHMS INPUT IMPEDANCE, 300 OHMS OUTPUT  
IMPEDANCE. USED IN S8, R8, H1.

**CW 23296** \* SEE BELOW  
HI CARRIER TELEPHONE TERMI-  
NAL PANEL: (WEST) INPUT 115/1/60, 50  
WATTS. TRANSMITTER BRANCH 4150 TO 6900  
CPS, 600 OHMS INPUT IMPEDANCE, 600 OHMS  
OUTPUT IMPEDANCE. RECEIVING BRANCH 7400  
TO 10150 CPS, 600 OHMS INPUT IMPEDANCE,  
\*UHF REMOTE CONTROL CIRCUITS.  
5/29/42 CW:X-68621A, SD-64081-02  
MAR. 43 LISTS 1 & 3

**CW23296**

300 OHMS OUTPUT IMPEDANCE. (USED IN  
S8,R8,H1).

**CW-23297** \* SEE BELOW  
SENDING LINE TERMINAL  
PANEL: CONSISTS OF LINE COILS, ADJUST-  
ABLE 0 TO 15 DB PAD IN 1 DB STEPS, AND  
JACKS. SUITABLE FOR ONE SYSTEM TERMINAL  
OF: (A) 12 NB TELEGRAPH CHANNELS, OR (B)  
3 WB TELEGRAPH CHANNELS, OR (C) ONE  
\* UHF REMOTE CONTROL CIRCUITS  
5/29/42 CW:X-63603A CW:ES-712760  
MAR. 43 LIST 1 FIG 1

SINGLE TELEGRAPH CHANNEL, **CW-23297**  
OR (D) A VOICE CHANNEL,  
OR (E) 12 NB AND 3 WB TELEGRAPH CHANNELS  
IN AN OFFICE WHERE THERE IS NO SENDING  
SYSTEM TERMINAL OF 3 WB TELEGRAPH AND 1  
VOICE CHANNELS. FREQ RANGE 300 TO 5000  
CPS. INPUT AND OUTPUT IMPEDANCES 600  
OHMS. USED IN S1A, S4, S5, S7.

**CW-23298** \* SEE BELOW  
SENDING LINE TERMINAL  
PANEL: CONSISTS OF LINE COILS, HIGH  
PASS AND LOW PASS FILTERS, ADJUSTABLE 0  
TO 15 DB PAD IN 1 DB STEPS, IN HIGH  
FREQUENCY AND VOICE FREQUENCY SIDES OF  
THE CIRCUIT. SUITABLE FOR ONE SYSTEM  
\* UHF REMOTE CONTROL CIRCUITS  
5/29/42 CW:X-63603B CW:ES-712760  
MAR. 43 LIST 1 FIG 2

TERMINAL OF (A) 3 WB **CW-23298**  
TELEGRAPH AND ONE VOICE  
CHANNELS, OR (B) 12 NB AND 3 WB TELE-  
GRAPH CHANNELS IN AN OFFICE WHERE THERE  
IS A SENDING SYSTEM TERMINAL OF 3 WB  
TELEGRAPH AND ONE VOICE CHANNELS. FREQ.  
RANGE, LOW SECTION: 300 TO 2550 CPS.  
HIGH SECTION: 2550 TO 5000 CPS. ALL IN-  
PUT AND OUTPUT IMPEDANCES ARE 600 OHMS.  
USED IN S10, S3, S6.

**CW-23299** \* SEE BELOW  
SENDING TELEGRAPH CHANNEL  
TERMINAL PANEL: PROVIDES JACKS ONLY,  
FOR A SINGLE TELEGRAPH CHANNEL. NO  
FREQ LIMITS. IMPEDANCE HIGH UNLESS  
TERMINATED. USED IN S4.

\* UHF REMOTE CONTROL CIRCUITS  
5/29/42 CW:X-63603F CW:ES-712760  
MAR. 43 LIST 1 FIG 5

**CW-23300** \* SEE BELOW  
RECEIVING LINE TERMINAL  
PANEL: CONSISTS OF LINE COILS AND JACKS.  
SUITABLE FOR ONE SYSTEM TERMINAL OF (A)  
12 NB TELEGRAPH CHANNELS, OR (B) 3 NB  
TELEGRAPH CHANNELS, OR (C) A SINGLE  
TELEGRAPH CHANNEL OR (D) A SINGLE VOICE  
\* UHF REMOTE CONTROL CIRCUITS  
5/29/42 CW:X-63603G CW:ES-712761  
MAR. 43 LIST 1 FIG 1

CHANNEL, OR (E) 12 NB AND **CW-23300**  
3 WB TELEGRAPH CHANNELS  
IN AN OFFICE WHERE THERE IS NO RECEIVING  
SYSTEM TERMINAL OF 3 WB TELEGRAPH AND  
ONE VOICE CHANNEL. FREQ RANGE 300 TO  
3300 CPS. USED IN R1A.

**CW-23301** \* SEE BELOW  
RECEIVING LINE TERMINAL  
PANEL: CONSISTS OF LINE COILS, HIGH  
PASS AND LOW PASS FILTERS AND JACKS  
SUITABLE FOR ONE SYSTEM TERMINAL OF: (A)  
3 WB TELEGRAPH AND ONE VOICE CHANNELS,  
OR (B) 12 NB AND 3 WB TELEGRAPH CHANNELS  
\* UHF REMOTE CONTROL CIRCUITS  
5/29/42 CW:X-63603H CW:ES-712761  
MAR. 43 LIST 1 FIG 2

IN AN OFFICE WHERE THERE **CW-23301**  
IS A RECEIVING SYSTEM  
TERMINAL OF 3 WB TELEGRAPH AND ONE VOICE  
CHANNELS. FREQ RANGE HIGH SECTION:  
2550 TO 5000 CPS. LOW SECTION: 300 TO  
2550 CPS. USED IN R1B.

**CW-23302** \* SEE BELOW  
RECEIVING TELEGRAPH  
CHANNEL TERMINAL PANEL: PROVIDES JACKS  
ONLY, FOR A SINGLE TELEGRAPH CHANNEL.  
NO FREQUENCY LIMITS. USED IN R4.  
\* UHF REMOTE CONTROL CIRCUITS  
5/29/42 CW:X-63603M, CW:ES-712761  
MAR. 43 LIST 1 FIG 5

**CW-23303** \* SEE BELOW  
RECEIVING VOICE CHANNEL  
TERMINAL PANEL: COIL AND JACKS, FOR A  
SINGLE VOICE CHANNEL. FREQUENCY RANGE  
300 TO 3000 CPS. INPUT IMPEDANCE 400  
OHMS. OUTPUT IMPEDANCE 600 OHMS. USED  
IN R6,R7.  
\* UHF REMOTE CONTROL CIRCUITS  
5/29/42 CW:X-63603A, CW:ES-712761  
MAR. 43 LIST 1 FIG 2

**CAY23304** GENERAL USE  
TELEPHONE AND REMOTE  
CONTROL UNIT: OPERATES FROM 110 V DC,  
110/1/60 OR 110/1/25, TAKING 37 WATTS.  
AUDIO INPUT AND OUTPUT IMPEDANCES ARE  
600 OHMS. AUDIO OUTPUT 1.3 WATTS. FRE-  
QUENCY RANGE 250 TO 3500 CPS ± 2 DB. DIS-  
TORTION LESS THAN 5% AT 400 CPS. IN-  
6/10/42 DL-7501667 CAY:P-7709084  
AUG. 43 GROUP 1 SUB 9

CLUDES SWITCH IN HANDSET **CAY 23304**  
CRADLE TO DEENERGIZE THE  
HANDSET WHEN IN THE CRADLE.

**CAY23304-A** RCEN USE  
TELEPHONE AND REMOTE  
CONTROL UNIT: OPERATES FROM 110 VDC,  
110/1/60 OR 110/1/25, TAKING 37 WATTS.  
AUDIO INPUT AND OUTPUT IMPEDANCES ARE  
600 OHMS; AUDIO OUTPUT 1.3 WATTS. FREQ  
RANGE: 250 TO 3500 CPS ±2DB, DISTORTION  
REFIRST PURCHASE; NXSS-18217  
4/9/43 CAY:DL-7501667- CAY:P-7710657  
SEPT 43 G3 SUB 0

**CAY23304-A**  
LESS THAN 5% AT 400 CPS. INCLUDES SWITCH  
IN HANDSET CRADLE TO DE-ENERGIZE THE  
HANDSET WHEN IN CRADLE. ELECTRICALLY AND  
MECHANICALLY INTERCHANGEABLE WITH BASIC  
NUMBER, BUT: 1. A 3-CIRCUIT JACK HAS BEEN  
ADDED WHICH TAKES CONTROL WHEN PLUG IS  
IN. 2. AC CIRCUIT SELECTION HAS BEEN  
CHANGED TO A TOGGLE SWITCH, & 3. SOME  
PARTS HAVE BEEN INTERNALLY REARRANGED.

**CAY23305** TDE  
REMOTE CONTROL UNIT:  
PROVIDES START-STOP CONTROL AND KEYING  
OR VOICE TRANSMISSION AT A REMOTE POINT  
FROM TRANSMITTER. HAS START-STOP SWITCH  
INDICATING LIGHT, KEY JACK, MICROPHONE  
JACK, AND PHONE JACK. INCLUDES COVER  
FOR FRONT OF UNIT. SECURE BY THUMB  
6/14/42 DL-7502437-G-1 CAY:M-7408403  
OCT. 42 SUB 0

SCREWS AND ATTACHED BY A **CAY 23305**  
CHAIN. MOUNTING BRACKETS  
CAN BE SHIFTED FOR TABLE OR BULKHEAD  
MOUNTING. MAY BE USED WITH ANY TRANS-  
MITTER CONNECTED FOR FOUR WIRE SYSTEM.

**CBM23306** QFB  
SHIP AND TARGET  
CONTROL UNIT: INCLUDES CONTROLS FOR SET-  
TING MAXIMUM SPEEDS OF BOTH SUBMARINE  
AND DESTROYER, AND MINIMUM TURNING RADI  
OF BOTH SUBMARINE AND DESTROYER. ALSO  
CONTAINS STEERING AND DRIVING MOTOR CON-  
TROL CIRCUITS FOR BOTH SUBMARINE & DE-  
6/21/42 909 CBM:SK3586  
OCT. 42 ALT 0

STROYER. SPEEDS ARE PRO- **CBM23306**  
VIDED IN ACCORDANCE WITH CONTRACT SPECI-  
FICATIONS AND TUNING RADI ARE IN AC-  
CORDANCE WITH INFORMATION RECEIVED FROM  
THE NAVY DEPT. INPUT: 115/1/60 AT 2.75  
AMPS, 205 WATTS. OUTPUT: 0 TO 130/0 TO  
130/0 TO 60/0-110 V DC AT .3/.3/.3/  
.3 AMPS.

DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER
------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------

3.23-20

Class 23—Control Panels and Control Units

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CBM 23307 QFB			COVERED CABLE WITH OCTAL PLUG. SIMILAR TO CRM-23327.	CRM 23312		CIA 23318 RBF-1		
HELMSMAN'S STAND: INCLUDES STEERING WHEEL, RUDDER ANGLE INDICATOR, HELM INDICATOR, AND A CYRO-COMPASS REPEATER. INPUT: 115/1/60 AT 0.6 AMPS AND 38 WATTS. SIMILAR TO TYPE -23349						SWITCHING UNIT; INPUT: 105 TO 120 V/1/50 TO 60, 0.06 AMPS, 7 WATTS & 150 V 0.48 AMPS DC, 72 WATTS. SELECTS THE RECEIVER CONNECTED TO THE AMPLIFIER AUTOMATICALLY OR MANUALLY, INDICATES RECEIVER IN OPERATION BY INDICATOR LIGHTS. HAS TIME CONTROL FOR AD-7/20/42 CIA:05573.1 REV 0		
6/21/42 CBM:891 AUG. 43:		CBM:SK-5384 ALT 0						
CBM 23308 QFB			CRV 23313 ATB			CIA 23318		
ENGINE-ROOM TELEGRAPH: INCLUDES CONTROLS FOR ENGINE ORDER AND STANDARD SPEED SETTING. INPUT: 230 V DC AT .0135 AMPS AND 3.1 WATTS.			OPERATOR'S CONTROL BOX: FOR DUAL CONTROL. SELECTS CHANNEL FREQUENCY AND VOICE OR KEY. STARTS AND STOPS EQUIPMENT. ALL CONTROL REMOTE AND INDEPENDENT OF PILOT'S CONTROL BOX TO GIVE FULL DUAL CONTROL.			JUSTING AUTOMATIC TIMING, D3 METER INDICATES OUTPUT OF AUDIO AMPLIFIER.		
6/21/42 CBM:892 OCT 42		CBM:SK-5385 ALT 0	7/11/42 AUG. 42		CRV:P-721539-501			
CRM 23309 TDK			CRV 23314 ATB					
CONTROL UNIT: CONTAINS A SEND-RECEIVE SWITCH, A 12 V MOTOR STARTING SWITCH AND A 110 VOLT MOTOR STARTING SWITCH. THE DIMENSIONS OF THIS UNIT ARE: HEIGHT 4", WIDTH 9-1/8", DEPTH 5". WEIGHT 4-1/2 POUNDS.			PILOT'S CONTROL BOX: FOR DUAL CONTROL. SELECTS CHANNEL FREQUENCY AND VOICE OR KEY. STARTS AND STOPS EQUIPMENT. ALL CONTROL REMOTE AND INDEPENDENT OF OPERATOR'S CONTROL BOX TO GIVE FULL DUAL CONTROL. ALSO INCLUDES BUILT-IN KEY.			CFJ 23319 CXBV		
6/24/42 AUG. 43		CRM:TS-327 SUB 0	7/11/42 AUG. 42		CRV:P-721540-501	RECEIVER CONTROL BOX: FOR REMOTE CONTROL OF 3 RADIO RECEIVERS, ONE UHF AND 2 LOW FREQUENCY. INCLUDES VOLUME CONTROL, A 2 POSITION PHASE SWITCH AND AN "AVC-OFF-MANUAL" SWITCH.		
CRM 23310 TDK			CM 23315 AYE			7/25/42 CFJ:SCR-274 AUG. 42 MODIFIED		
POWER CONTROL PANEL: BATTERY CHARGING AND CONTROL PANEL. CONTROLS OPERATION FROM 110 VOLTS DC OR 12 V DC. MOUNTS FILAMENT RHEOSTAT AND ALTERNATOR FIELD RHEOSTAT. CONTROLS CHARGING RATE OF 12 VOLT BATTERY (EITHER 10 AMPERE RATE OR TRICKLE CHARGE AT 1/2 6/24/42 MAR. 43		TS-327 SUB 0	REMOTE CONTROL UNIT: FOR REMOTE CONTROL OF NAVY TYPE CW-46196 RECEIVER. INCLUDES VOLUME CONTROL, HONING-OFF VOICE SWITCH, 6 POSITION TUNING CONTROL, BEAT NOTE CONTROL, TWO PHONE JACKS WITH ASSOCIATED SWITCH AND TWO RECEPTACLES FOR INTERCONNECTING 10/6/42 MAR. 43		ESXX-591465 ISSUE 2	CFJ:SCR-274 AUG. 42 MODIFIED		
AMP RATE). MOTOR STARTING RESISTOR (WHEN USED FOR 110 V DC) IS MOUNTED ON BACK. HAS FUSES TO PROTECT 110 AND 12 VOLT CIRCUITS. TWO METERS ON PANEL: ONE TO INDICATE BATTERY CHARGING CURRENT AND THE OTHER THE BATTERY VOLTAGE OVERALL DIMENSIONS: HEIGHT 19" X WIDTH 12" X DEPTH 8-3/8"			CW 23315			CFJ:SCR-274 AUG. 42 MODIFIED		
			CABLES.					
CBM 23311 WEA-2			CHV 23316 PE			CJF 23321 CXBV & CXBW		
REMOTE CONTROL UNIT: INCLUDES A MECHANICAL REMOTE CONTROL FOR TRAINING THE PROJECTOR FROM THE BRIDGE AND FOR INDICATING THE PROJECTOR BEARING CONNECTION FROM THE REMOTE CONTROL UNIT TO THE HOIST-TRAIN UNIT IS BY A FLEXIBLE STEEL SHAFT. INDICATING LIGHTS ARE PROVIDED 6/27/42 AUG. 42		CBM:8366A CBM:60133 ALT 0	POWER CONTROL UNIT: INPUT 115/1/60, 0.13 AMPS, 15 WATTS. CONTROLS THE DISTRIBUTION OF POWER FOR THE VARIOUS UNITS OF THE EQUIPMENT. INCLUDES ON-OFF SWITCH; KRAMER THERM CLOCK TO SELECT TRANSCRIBER-REPRODUCER UNIT; SELECTOR SWITCHES FOR VOICE, MANUAL AND 7/15/42 AUG. 43		CHV:2558R4 CHV:2558R4-C CHV:2558R4-BN	TRANSMITTER-RECEIVER CONTROL BOX: FOR REMOTE CONTROL OF UHF TRANSMITTER AND RECEIVER. CONSISTS OF NAVY TYPE -23319 AND -23320 CONTROL BOXES COMBINED INTO A SINGLE UNIT AND INCLUDES MOUNT.		
VIDED TO INDICATE UP OR DOWN POSITION OF PROJECTOR SHAFT. FOR USE IN 32 VOLT DC EQUIPMENTS. SAME AS CBM-23286 EXCEPT FOR INDICATOR LIGHT POTENTIOMETER.			CLOCK. WEIGHT 6 POUNDS. *REV 0			7/25/42 CJF:F-101-3 AUG. 42		
						CJF:23322 TDM		
CRM 23312 MQ			CHV 23317 PE			AUTOMATIC ON-OFF CONTROL UNIT: CLOCK PROGRAM UNIT WHICH ACTUATES CIRCUIT SELECTOR TYPE 2 *23. WOUND PERIODICALLY BY GASOLINE ENGINE GENERATOR SET. MAY BE ADJUSTED TOSTART OPERATION OF TRANSMITTER AT THE BEGINNING OF ANY 15 MINUTE INTERVAL. 8/8/42 OCT.42		
REMOTE CONTROL UNIT: INCLUDES BUILT-IN PM LOUDSPEAKER. REGULATES VOLUME. SELECTS SPEAKER OR HANDSET RECEPTION AND HAS "ON-OFF" SWITCH FOR EQUIPMENT. INCLUDES W.E. CO. HANDSET TYPE F34W3 (NAVY TYPE CW-51032) AND 20 FT SEVEN CONDUCTOR SHIELDED AND RUBBER-7/6/42 OCT. 42		CRM:K-97 SUB 1	SIGNAL INPUT PANEL: MIXES THE INCOMING SIGNALS UP TO 8 INPUTS. PROVIDES FOR ISOLATION BETWEEN INPUT SOURCES. OUTPUT OF EACH CIRCUIT HAS A GAIN OR LINE CONTROL FOR SIGNAL COMPENSATION.		CHV:2539R AUG. 43	7/25/42 CJF:F-101-3 AUG. 42		
						CJF-23322-A TDM-1		
						AUTOMATIC ON-OFF CONTROL UNIT: CLOCK PROGRAM UNIT WHICH ACTUATES CIRCUIT SELECTOR, TYPE -23323. WOUND PERIODICALLY BY GASOLINE ENGINE GENERATOR SET. MAY BE ADJUSTED TO START OPERATION OF TRANSMITTER AT THE BEGINNING OF ANY 15 MINUTE INTERVAL. SAME AS 9/27/44 AV-40288 X-P-47029 MAR. 45		

DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED
------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------	-----------------

Class 23—Control Panels and Control Units

3.23-21

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CJF 23323	TDM	CIRCUIT SELECTOR: CONSISTS OF RELAYS, MOTORS, CODE DISCS, SWITCHES, AND ASSOCIATED EQUIPMENT FOR SELECTING AND COMPLETING THE CIRCUITS FOR THE TRANSMISSION OF THE STATION CALL LETTERS, IDENTIFICATION LETTERS AND MEASURING SIGNALS. 8/8/42 DEC. 44;	CRM 23327		FT. SEVEN CONDUCTOR SHIELDED AND RUBBER-COVERED CABLE WITH OCTAL PLUG. SIMILAR TO CRM-23312.	CBM 23331-B	QCS-a, QCT-a	HOIST-TRAIN LOCAL CONTROL UNIT: SLIGHT WIRING CHANGES IN NAVY TYPE -23331; -MODIFIED FOR EQUIPMENTS HAVING MAINTENANCE OF TRUE BEARING (MTB) FEATURE TIED IN ON A ONE (1) SPEED GYRO SYSTEM. 11/2/43 MAR. 44
		CJF:39198	CVS 23328	EY	CONTROL CABINET: STEEL CABINET PANELBOARD WHICH INCLUDES ONE 0 TO 150 VOLT DC VOLTMETER, ONE 0 TO 75 AMP DC AMMETER, ONE FIELD RHEOSTAT AND ONE CIRCUIT BREAKER. 9/22/42 AUG. 43	CBM 23332	QCS, QCT	DOME SEATING CONTROL UNIT: EMPLOYS RELAYS IN CONJUNCTION WITH THE HOIST MOTOR MAGNET CONTROLLER AND LIMIT SWITCHES TO PROVIDE FOR AUTOMATIC SEATING OF THE DOME AND RETRACTING GEAR WHEN LOWERED. INCLUDES A "MOTOR BRAKE OFF" INDICATING LIGHT, EMERGENCY STOP PUSH 10/6/42 916 MAY 43 CBM:SK-5373 ALT 0
		CJF 23323			INPUT 115/1/60. 30 WATTS AND 12 VOLTS DC 6 WATTS.			CBM 23332
CJF 23324	TDM	AUTOMATIC CONTROL UNIT: CONSISTS OF 4 RELAYS, 3 THERMOSTATS, 1 TOGGLE SWITCH AND FUSE BLOCK CONTROLS STARTING OF ENGINE, CHARGING OF BATTERY, WINDING CLOCK, VENTILATION, ETC. 8/10/42 MAR. 43	CVS 23329	EZ	CONTROL CABINET: STEEL CABINET PANEL BOARD WHICH INCLUDES ONE AC VOLTMETER, ONE AC AMMETER, ONE FIELD RHEOSTAT, ONE THREE PHASE CIRCUIT BREAKER. 9/22/42 AUG. 43			CBM 23332
		CJF:40882						BUTTON SWITCH AND A "BREAK RELEASE" OFF-ON TOGGLE SWITCH.
CJF-23324-A	TDM-1	AUTOMATIC CONTROL UNIT: CONSISTS OF 4 RELAYS, 3 THERMOSTATS, 1 TOGGLE SWITCH AND FUSE BLOCK. CONTROLS STARTING OF ENGINE, CHARGING OF BATTERY, WINDING CLOCK, VENTILATION, ETC. SAME AS BASIC NUMBER EXCEPT THAT CONNECTION OF CAPACITOR C-501 HAS BEEN CHANGED FROM 9/27/44 AV-40179 X-P-47027 MAR. 45	Q 23330	ATC	PILOT'S CONTROL UNIT: SELECTS ANY OF THE 10 PRESELECTED CHANNELS (2 TO 18.1 MC) AND THE ONE 200 TO 1500 KC CHANNEL. INCLUDES FILAMENT ON-OFF SWITCH, EMISSION SELECTOR SWITCH, MICROPHONE JACK, AND TELE RAPH KEY. *COL:K1228B DATA FORM SHT. 314N-1 10/2/42 COL:J14N-1 *SEE ABOVE MAY 43	CBM 23332-A	QCS-1 QCT-1	DOME SEATING CONTROL UNIT: SAME AS BASIC NUMBER EXCEPT A DOUBLE POLE RELAY IS REPLACED BY A SINGLE POLE RELAY, RESULTING IN A CHANGE IN INTERNAL WIRING, ELECTRICALLY AND MECHANICALLY INTERCHANGEABLE AS A WHOLE WITH BASIC NUMBER. 4/20/43 916A AUG. 43 CBM:SK-5373 ALT 0
		CJF-23324-A			TERMINAL 8 TO OPPOSITE END OF FUSE F-500.			23333
					INDICATOR LIGHT. 1.5" POUNDS. Q CMQ, COL, CJP			ATC POWER CONTROL UNIT CONTAINS STARTING RELAY AND A BAROMETRIC SWITCH. USED FOR MOUNTING NAVY TYPES CQR-21331 OR CWD-21932 DYNAMOTORS. THE BAROMETRIC SWITCH AUTOMATICALLY REDUCES THE 1150 VOLT OUTPUT TO 750 VOLTS WHEN THE UNIT IS OPERATED AT A REDUCED 10/12/42 COL: CJP:416U-1 COL-K352E-6 DEC. 44 CMQ:
CAN 23325	QFA-1	REMOTE CONTROL UNIT: 8/24/42 OCT. 42	CBM 23331	QCS, QCT	HOIST-TRAIN LOCAL CONTROL UNIT: CONTAINS KNOB FOR CONTROL OF INPUT TO CONTROL AMPLIFIER GIVING TRAINING SPEED UP TO 4 RPM. ALSO INCLUDES HOIST-LOWER PUSH-BUTTONS, INDICATING LIGHTS, AND START-STOP SWITCH, STARTING RELAY FOR DYNAMO ELECTRIC AMPLIFIER UNIT AND 10/8/42 756L MAY 43 CBM:60177 ALT 0			23333
								ATMOSPHERIC PRESSURE, BELOW APPROX. 10.72 INCHES OF MERCURY.
CAN 23326	QFA-1	POWER CONTROL UNIT: SAME AS CAN -23268-A 8/24/42 MAR. 43	CBM 23331		ASSOCIATED THERMAL OVERLOAD CUTOUT RATED AT 1.2 AMP. SAME AS CBM-23252 EXCEPT CASE MATERIAL IS CHANGED FROM ALUMINUM TO SHEET STEEL AND THE PARTS ASSEMBLY HAS BEEN ALTERED.			23333-A
								ATC, ATC-1 POWER CONTROL UNIT CONTAINS STARTING RELAY AND A BAROMETRIC SWITCH. USED FOR MOUNTING NAVY TYPE -21931, OR -21932 SERIES DYNAMOTORS. THE BAROMETRIC SWITCH AUTOMATICALLY REDUCES THE 1150 VOLT OUTPUT TO 750 VOLTS WHEN THE UNIT IS OPERATED AT A REDUCED 3/8/44 MAY 44 416U-2
CRM 23327	HQ-1	REMOTE CONTROL UNIT: INCLUDES BUILT-IN PM LOUDSPEAKER. REGULATES VOLUME, SELECTS SPEAKER OR HANDSET RECEPTION AND HAS ON-OFF SWITCH FOR EQUIPMENT. INCLUDES W.E. CO. HANDSET TYPE F3A43 (NAVY TYPE CW-51032), "ON-OFF" TRANSMITTER FILAMENT SWITCH AND 20 8/31/42 OCT. 42	CBM 23331-A	QCS-a, QCT-a	HOIST-TRAIN LOCAL CONTROL UNIT: NAVY TYPE -23331 MODIFIED FOR MID ON A 36 SPEED GYRO SYSTEM. 11/2/43 MAR. 44			23333-A
		KS-153 SUB 0			CANCELLED - MODIFICATIONS NOT NEEDED			ATMOSPHERIC PRESSURE, BELOW APPROX. 10.72 INCHES OF MERCURY. SAME AS -23333 EXCEPT INCLUDES NOISE FILTER.

DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER
------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------

CONFIDENTIAL

NAVSHIPS 900,109

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
-----------------------	--------------------	-------------------------------	-----------------------	--------------------	-------------------------------	-----------------------	--------------------	-------------------------------

**CW-23334** AMB  
PILOT'S CONTROL UNIT:  
CONTROLS OPERATION OF CW-43036. INCLUDES ON-OFF SWITCH, MICROPHONE AND PHONE JACKS PLANE TO PLANE AND /OR PLANE TO GROUND SWITCH, TRANSMITTER CHANNEL SELECTOR, VOLUME CONTROL, P-P SENSITIVITY CONTROL, RADIO-INTERPHONE SWITCH  
10/17/42  
MAY 43

**CRV 23338** QCO-2  
REMOTE TRAINING CONTROL UNIT:  
INPUT 115/1/60, 50 WATTS, .45 AMP. OUTPUT CONTROLLERS BY HANDWHEEL ON PANEL SUPPLIES 115/1/60, 35 WATTS, .3 AMP TO TRAINING MOTOR. HANDWHEEL IS COUPLED TO BEARING REPEATER MOVABLE POINTER, OUTER SCALE IS FIXED, AND INNER SCALE IS  
11/24/42 RI-8988B CRV:M-306553-3  
SEPT 43 SUB 0

**CFJ 23342** TDM  
KEYING CONTROL UNIT:  
INPUT 115/1/60, 50 WATTS. OUTPUT .1 WATT .5 TO 3 CYC PER SECOND FOR OPERATING KEYING RELAY. INCLUDES OSCILLATOR TUBE AND RC CIRCUIT. VARIATION OF RESISTANCE DETERMINES KEYING FREQUENCY.  
12/18/42 CJP:41541  
MAY 43

**23335** RE23F210  
4 WIRE TELEGRAPH REMOTE CONTROL PANEL UNIT-DUAL:  
CONTAINS THE FOLLOWING: 2 NAVY TYPE-26012 INSULATED TELEGRAPH KEYS 2 SPST PUSH BUT-TON SWITCHES, 2 INDICATOR LIGHTS, AND 2 RESISTORS TO PERMIT OPERATION FROM 115 OR 230 V AC/DC SUPPLY. SIMILAR TO -23224  
10/20/42  
MAY 43

**CRV 23338**  
DRIVEN BY A SYNCHRO CONNECTED TO THE SHIP'S GYRO COMPASS SYSTEM. SAME AS CRV-23264 EXCEPT FOR SYNCHRO DRIVE INSTEAD OF FLEXIBLE SHAFT DRIVE.

**CJF-23342-A** TDM-1  
KEYING CONTROL UNIT  
INPUT: 115/1/60, 50 WATTS. OUTPUT: 0.1 WATT, 0.5 TO 3.0 CYCLES PER SECOND FOR OPERATING KEYING RELAY. INCLUDES OSCILLATOR TUBE AND RC CIRCUIT. VARIATION OF RESISTANCE DETERMINES KEYING FREQUENCY. SAME AS BASIC NUMBER EXCEPT ALL  
9/27/44 AM-40291-1 X-P-47035  
MAR. 45

**23335**

EXCEPT MODIFIED FOR 4 WIRE OPERATION AND CHANGES IN CONSTRUCTION.

**CRV 23339** QCO-2  
REMOTE BEARING REPEATER UNIT: SAME AS CRV-23265 EXCEPT THE TRUE BEARINGDIAL IS OPERATED BY A SYNCHRO CONNECTED TO THE SHIP'S GYRO COMPASS SYSTEM & HAS NO HANDWHEEL. FOR USE AT THE HELMS-MAN'S POSITION. MOUNTED SEPARATELY ON A METAL PLATE SUITABLE FOR SHELF OR PEDESTAL  
11/24/42 RI-8989-A CRV:M-306553-5  
SEPT 43 SUB 0

**CJF-23342-A**  
THE COMPONENTS ARE MECHANICALLY RE-ARRANGED ON THE CHASSIS TO SIMPLIFY THE WIRING. THE UNIT IS ELECTRICALLY IDENTICAL WITH CJF-23342.

**CBM 23336** MCA-1  
TRAINING REMOTE CONTROL UNIT:  
INCLUDES ALL NECESSARY CONTROLS FOR TRAINING, AND BEARING REPEATERS. IDENTICAL TO CBM -23279-A EXCEPT FOR ELECTRICAL DIFFERENCES (RESISTORS, ETC.) DUE TO CHANGE IN LINE VOLTAGE TO 90 TO 160 V DC.  
11/5/42 757 V 60165 ALT 0  
MAY 43

**CRV 23339**  
MOUNTING. METAL MOUNTING PLATE INCLUDED IN THIS NUMBER.

**CCI 23343** MO-1  
CONTROL UNIT:  
CONTROLS OPERATION OF POWER SUPPLY FOR TYPE CCI-43040 OR CCI-43049 TRANSMITTER-RECEIVER. SAME AS -23343-A EXCEPT COMPONENTS MOUNTED ON CASE.  
1/1/43 MO-155R CCI:155-2H-4.1  
NOV. 43

**CBM 23336A** MCA-1  
TRAINING REMOTE CONTROL UNIT: INCLUDES ALL NECESSARY CONTROLS FOR TRAINING, AND BEARING REPEATERS. IDENTICAL TO CBM-23279A EXCEPT FOR ELECTRICAL DIFFERENCES (RESISTORS, ETC.) DUE TO CHANGE IN LINE VOLTAGE TO 90 TO 160 VOLTS DC AND ADDITION OF JK LUBBER LINE.  
11/5/42 757VJ 60165 ALT 0  
MAR. 43

**RW-23340** \*SEE BELOW  
SWITCHING UNIT:  
INPUT 110/1/60 (FOR OPERATING BODINE MOTOR TYPE KYC-22. 115/1/60, 7 WATTS, 2 RPM, 80 IN-OZ. TORQUE); 110 V-DC, 20.4 WATTS; 115 V DC, 2 WATTS 6 VAC .9 WATTS. OUTPUT 110/1/60. SWITCHES AUTOMATICALLY  
\*MODEL JR. PO 536/43  
12/9/42  
MAY 43

**CCI 23343-A** MO-1, MAK  
CONTROL UNIT  
CONTROLS OPERATION OF POWER SUPPLY FOR TYPE CCI-43040 OR CCI-43049 TRANSMITTER-RECEIVER. SAME AS -23343 EXCEPT COMPONENTS MOUNTED ON REMOVABLE FRONT PANEL.  
10/21/43 CCI:155-2H-4.1A  
NOV. 43

**CBM 23336A**

SAME AS BASIC NUMBER EXCEPT FOR ADDITION OF JK LUBBER LINE INDEX.

**RW-23340**  
1 TO 20 HYDROPHONES OF A CABLE CONNECTED HYDROPHONE SYSTEM IN SEQUENCE TO THE INPUT OF THE AMPLIFIER FOR A PRE-DETERMINED PERIOD WHICH CAN BE VARIED FROM 2 TO 10 SECONDS IN 5 PERIODS. PROVIDES FOR MAX-IMAL OPERATION. PILOT LAMPS USED AS INDICATOR.

**CAN 23344** QFA-2  
SOUND CONTROL UNIT:  
1/4/43 811943  
MAR. 44 REV 0

**CW-23337** N311S-21400 #  
SWITCHBOARD:  
SWITCHBOARD: FIRE CONTROL, SINGLE PANEL, UNIT TYPE, COMMON BATTERY WITH PROVISION FOR LOCAL BATTERY LINES TO TELEPHONE OR OTHER SWITCHBOARDS OF LOCAL BATTERY TYPE. CONSISTS OF FRAME CONTAINING APPARATUS (INCLUDING HEATER UNIT) IN A MOHOGANT  
11/19/42 CW:220-A, COMB.M  
SEPT 43 SIG CORPS:8D-74

**CRV 23341** QFD  
CONTROL UNIT:  
PROVIDES FOR THE STUDENT CONTROLS AND DIAL INDICATORS SIMILAR TO THOSE ON AN ACTUAL EQUIPMENT OPERATED FROM FRONT. PROVIDES FOR THE INSTRUCTOR CONTROLS TO SET UPBEARING PROBLEMS, OPERATED FROM BACK. INCLUDES TYPICAL BEARING INDICATOR  
12/9/42 M-201453 SUB 1  
MAY 43

**CCS 23345** PD-1  
STEP BACK BRAKE CONTROL UNIT:  
USED TO CONTROL THE OPERATION OF THE PLAYBACKHEAD-STEPBACK AND TURNABLE BRAKING MECHANISM OF NAVY TYPE CCS-67002 REPRODUCER UNIT FROM REMOTE POSITION. INCLUDES TEN FOOT THREE WIRE INTERCONNECTING CABLE AND TWO SINGLE POLE  
1/5/43 8-373A CCS: 14.11  
AUG 43

**CW-23337**

CABINET 84" HIGH, 24" WIDE, 11" DEEP. INCLUDES 25 TYPE CC-66 (18" LONG), CC-67 (36" LONG), CC-68 (72" LONG), SIGNAL CORPS PATCH CORDS. WEIGHT 666 POUNDS.

**CRV 23341**  
DIAL, AND KEYING MECHANISM. INPUT 115/1/60, 0.55 AMP.

**CCS 23345**  
DOUBLE THROW MU SWITCHES TYPE MRL. CONTACTS RATED 125 V 10 AMP. SWITCHES OPERATED BY PEDALS.

#SIG CORPS & DWGS SPEC 71-681  
SC-D-1119-J  
SC-D-5694-A

DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER
------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------



Class 23—Control Panels and Control Units

3.23-23

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CAY 23346	*SEE BELOW		CBM 23350-A	QCS-1a, QCT-1a		CWT 23353	QBC-1	
CONTROL TRANSFER UNIT; CONSISTS OF REMOTE-LOCAL SWITCH, MICROPHONE JACK, PHONE JACK, AND THREE CORDS AND PLUGS EACH 20" LONG OVERALL - ONE FOR KEY, ONE FOR MICROPHONE AND ONE FOR PHONES. *FOR USE WITH WITH TCE, TCE-1 1/5/43 DL-7502544-G1 T-7608698 SUB 1 MAY 43 T-7609815 SUB 0			REMOTE CONTROL UNIT (FOR HOIST-TRAIN): NAVY TYPE -23350 MODIFIED BY ADDING A 5 PDT SWITCH, A 115/78 VOLT, 25 WATT TRANSFORMER, A 30-10 MFD/PHASE CAPACITOR FOR MAINTENANCE OF TRUE BEARING (MTB) ON A 36 SPEED GYRO RATIO SYSTEM SAME AS -23350-B EXCEPT 11/1/43 NOV. 43			TRAINING CONTROL UNIT: INPUT: 115/1/60, 350 WATTS. MANUALLY OR AUTOMATICALLY CONTROLS THE ROTATION OF SEA UNIT MIRROR AND INDICATES THE ASMUTH OF THE PROJECTED OR RECEIVED SIGNAL. A TILT OF THE SEA UNIT OF MORE THAN 15° IS INDICATED BY THE RINGING OF AN ALARM BELL. 2/5/43 AUG 43		
CBM 23347	QFB-1		CBM 23350-A			CWT 23354	QBD	RA23F234
REMOTE CONTROL UNIT: INPUT: 115/1/60, 1.1 AMPS, 85 WATTS, INCLUDES ILLUMINATED GYRO REPEATER, HOIST-LOWER SWITCHES AND INDICATING LIGHTS, POWER START-STOP SWITCH, DIAL LIGHT CONTROL AND BRIDGE LIGHT SWITCH. SIMILAR TO TYPE -23283 EXCEPT TRAINING 1/13/43 CBM:757Y CBM:60191 AUG. 43 ALT 0			DOES NOT INCLUDE GEAR BOX. ALSO, -23350 HAS MINOR CHANGES IN AMPLIDYNE AMPLIFIER.			TRAINING CONTROL UNIT: INPUT: 120/1/60, 140 WATTS. CONSISTS OF AN ELECTRICALLY DRIVEN VARIABLE SPEED MECHANISMS FOR INDICATING THE WATER STATION UNIT MIRROR AZIMUTH & VERTICAL TILT. A COMMUTATOR CONTROL & AN ELECTRICAL CIRCUIT TO ALLOW INDEXING OF MIRROR 2/5/43 AUG 43		
CBM 23347			CBM 23350-B	QCS-1a, QCT-1a		CWT 23354		
POTENTIOMETER. TRAINING ACCOMPLISHED BY MEANS OF PROJECTOR BEARING SYNCHRONOUS GENERATOR.			REMOTE CONTROL UNIT (FOR HOIST-TRAIN): NAVY TYPE -23350 MODIFIED BY ADDING A 5 PDT SWITCH, A 115/78 VOLT, 25 WATT TRANSFORMER, A 30-10 MFD/PHASE CAPACITOR. MINOR CHANGES IN THE AMPLIDYNE AMPLIFIER AND A 1/36 GEAR BOX FOR MAINTENANCE OF TRUE BEARING 11/1/43 NOV. 43			POSITION AND INDICATION OF EXCESSIVE TRIPOD TILT.		
CBM 23348	QFB-1		CBM 23350-B			COL 23355	*SEE BELOW	
SHIP & TARGET CONTROL UNIT: INCLUDES CONTROLS FOR SETTING MAXIMUM SPEED OF BOTH SUBMARINE, AND DESTROYER, AND MINIMUM TURNING RADIUS OF BOTH SUBMARINE & DESTROYER. ALSO CONTAINS STEERING & DRIVING MOTOR CONTROL CIRCUITS FOR BOTH SUBMARINE AND DESTROYER. INPUT: 1/13/43 CBM:909A CBM:SK-5386 AUG 43 ALT 0			(MTB) ON A ONE (1) SPEED GYRO RATIO SYSTEM. SAME AS -23350-A EXCEPT INCLUDES GEAR BOX AND MINOR WIRING CHANGES IN AMPLIDYNE AMPLIFIER.			REMOTE CONTROL UNIT: CONTROLS OPERATION OF TRANSMITTER, RECEIVER, AND INTERPHONE AMPLIFIER. HAS BUILT-IN SPEAKER, 4 SWITCHES, 2 PHONE JACKS AND 2 MICROPHONE JACKS. SIMILAR TO COL-23270 *ICS SERIES ACCESSORY. 2/25/43 COL:314M-2 COL:1765B MAY 43		
CBM 23348			COL 23351	TDH		CFT 23356	DAK-1	
115/1/60 AT 2.75 AMPS 205 WATTS. OUTPUT: 0-130/0-130/0-60/0-110 VDC AT 0.3/0.3/0.3/0.3 AMPS. SIMILAR TO TYPE -23306 EXCEPT FOR INTERNAL CHANGES.			REMOTE CONTROL UNIT: INPUT: 115/1/60, 20 WATTS. CONTAINS MICROPHONE PREAMPLIFIER AND CONTROL EQUIPMENT NECESSARY FOR CONTROLLING TRANSMITTER. INPUT AND OUTPUT IMPEDANCE IS 500 OHMS. THE AMPLIFIER GAIN IS 50DB & FREQUENCY RESPONSE DOES NOT VARY MORE 1/20/43 177G-7 COL:2168A AUG 43 REV 0			CONTROL UNIT: CONTROLS OPERATION OF POTENTIOMETER AND INDICATOR MOTORS, AND TYPE CFT-20209 RECTIFIER POWER UNIT. 2/27/43 MAY 43		
CBM 23349	QFB-1		COL 23351			CFT 23357	TDN	
HELMSMAN'S STAND: INCLUDES STEERING WHEEL, RUDDER ANGLE INDICATOR, HELM INDICATOR, AND A GYRO-COMPASS REPEATER. INPUT: 115/1/60 AT 0.6 AMPS AND 38 WATTS. SIMILAR TO 23307 EXCEPT FOR SEVERAL IMPROVEMENTS IN ELECTRICAL & MECHANICAL DESIGN. 1/13/43 CBM:891A CBM:SK-5384 AUG 43 ALT 0			THAN 3DB WITHIN RANGE OF 150 TO 3500 CY.			LOCAL CONTROL UNIT: CONSISTS OF ONE SPST TOGGLE SUITABLE SWITCH FOR FILAMENT ON-OFF; SIX ROTARY SWITCHES FOR PHONE AND CW; ARE SPST DOOR SWITCH, FOR HIGH VOLTAGE INTERLOCK; AND TWO PUSH BUTTON STATIONS FOR PLATE ON-OFF. 3/1/43 CFT:106A CFT:F-26670-14 MAY 43 REV D		
CBM 23350	QCS-1 QCT-1		CCS 23352	PH		CG-23358	SM	
REMOTE CONTROL UNIT (FOR HOIST-TRAIN): CONTAINS A 90 VOLT STEP-BY-STEP MOTOR FOR CONTROL OF DYNAMO ELECTRIC AMPLIFIER UNIT THROUGH THE CONTROL AMPLIFIER. THIS UNIT ALSO INCLUDES THE CONTROL AMPLIFIER BEARING AND GYRO-REPEATER ASSEMBLY HOIST AND LOWER PUSH 1/14/43 CBM:757Z CBM:60174 ALT 1 AUG 43			STEPBACK-BRAKE CONTROL UNIT: USED TO CONTROL THE OPERATION OF THE REPRODUCER STEPBACK AND TURNABLE BRAKING MECHANISM OF NAVY TYPE CCS-67008 REPRODUCE UNIT FROM REMOTE POSITION. INCLUDES 10 FT CABLE TERMINATED IN A 4 PRONG PLUG NAVY TYPE CJC-49253. MECH-2/4/43 CCS:8-381A CCS:A-E-14 AUG 43			POWER CONTROL UNIT: CONSISTS OF RELAYS, RESISTORS, SWITCHES, TRANSFORMERS, LIGHTS, ETC., TO CONTROL AND INDICATE SM OPERATION. 3/1/43 ML-7351462-G1 P-7765367 REV 0 MAY 43		
CBM 23350			CCS 23352			CG-23358-A	SM-1	
BUTTONS, START STOP CONTROL AND OTHER MISCELLANEOUS CONTROLS. SIMILAR TO TYPES -23235 AND -23372.			ANICALLY SIMILAR TO NAVY TYPE CCS-23345 BUT NOT ELECTRICALLY.			POWER CONTROL UNIT: SAME AS BASIC NUMBER EXCEPT SUBSTITUTION OF A CG-631538 SURIP HEATER FOR CG-631529. 7/15/43 CG:ML-7351462G1 CG:P-7765367 SEPT 43 REV 3		

DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER

CONFIDENTIAL

NAVSHIPS 900,109

3.23-24

Class 23—Control Panels and Control Units

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
* 23359 MK19 POWER CONTROL UNIT: CONTAINS NECESSARY CONTROL SWITCHES-FUSES ETC. FOR OPERATION OF EQUIPMENT ALSO INCLUDES A FILAMENT TRANSFORMER. * CLV,CMW	3/5/43 DEC 44	CW:0-151349 CM:BX-21952 ISSUE 1	CW-23364 SINCE THIS UNIT CONSISTS PRIMARILY OF TEST CONTROL KEYS AND PATCHING JACKS, THE POWER CONSUMED BY IT IS INSIGNIFI- CANT.	4/24/43 AUG. 44	CRR:23367 NXSS-23012 SELECTOR CONTROL UNIT: INPUT 110/1/60, 60 W. INCLUDES RECTIFIER AMPLIFIER, OSCILLATORS, TELEPHONE RINGER, CHANNEL SELECTOR SWITCH, RADIO/IC SWITCH, SENDS EITHER 210 & 250 CYCLES OR 250 & 250 CYCLE IMPULSES TO CONTROL NAVY TYPE	CLV MK 34 MOD 384 CW-23359-A RADAR CONTROL UNIT (POWER) MK3 MOD1 CONTAINS NECESSARY SWITCHES, FUSE, ETC. FOR OPERATION OF EQUIPMENT. ALSO IN- CLUDES FILAMENT TRANSFORMER. SIMILAR TO TYPE -23359 EXCEPT ONE TOGGLE SWITCH HAS BEEN ADDED TO CONTROL OPERATION OF 10/6/44 D-152812 BX-25549 MAR. 45 ISS 1	CLV CM-23364-A AN/FGC-18 CONTROL PANEL: KEY, METER AND JACK PANEL. MOUNTS OPER- ATING AND TESTING KEYS AND JACKS. ALSO INCLUDES DC METER WHICH OPERATES FROM OUTPUT OF NAVY TYPE CW-60061 TO GIVE AN INDICATION OF THE TWO CARRIER FRE- QUENCIES. SAME AS NAVY TYPE -23364 EX- 5/7/45 JUN. 45	CRR:23367 CRR:23368 CRR:23369 CRR:23370-A CRR:23370-A CRR:23371
CLV MK 34 MOD 384 CW-23359-A RADAR CONTROL UNIT (POWER) MK3 MOD1 CONTAINS NECESSARY SWITCHES, FUSE, ETC. FOR OPERATION OF EQUIPMENT. ALSO IN- CLUDES FILAMENT TRANSFORMER. SIMILAR TO TYPE -23359 EXCEPT ONE TOGGLE SWITCH HAS BEEN ADDED TO CONTROL OPERATION OF 10/6/44 D-152812 BX-25549 MAR. 45 ISS 1	CLV CM-23359-A CW-24AAF. WAVE GUIDE SWITCHING UNIT. ELECTRICALLY & MECHANICALLY INTERCHANGE- ABLE WITH TYPE -23359.	CLV CM-23364-A CONTROL PANEL: KEY, METER AND JACK PANEL. MOUNTS OPER- ATING AND TESTING KEYS AND JACKS. ALSO INCLUDES DC METER WHICH OPERATES FROM OUTPUT OF NAVY TYPE CW-60061 TO GIVE AN INDICATION OF THE TWO CARRIER FRE- QUENCIES. SAME AS NAVY TYPE -23364 EX- 5/7/45 JUN. 45	CW-23365 NXSS-20953* KEYER CONTROL UNIT: USED TO CONVERT THE "MARK" AND "SPACE" SIGNALS LEAVING THE DETECTORS NAVY TYPE CW-50133 AS DC PULSES TO NEGATIVE VOLT- AGES FOR "MARKING" SIGNALS AND LITTLE OR NO VOLTAGE FOR SPACES. INCLUDES RECTIFIER *(AN/FGC-1A) CW:X-61790F-1 4/1/43 CM:X-61790F-1 ISS. 1. CM:8- AUG. 44 LIST 1 405449, ISSUE 2	4/24/43 AUG. 44	CRR:23367 CRR:23368 CRR:23369 CRR:23370-A CRR:23370-A CRR:23371	CLV CM-23364-A CONTROL PANEL: KEY, METER AND JACK PANEL. MOUNTS OPER- ATING AND TESTING KEYS AND JACKS. ALSO INCLUDES DC METER WHICH OPERATES FROM OUTPUT OF NAVY TYPE CW-60061 TO GIVE AN INDICATION OF THE TWO CARRIER FRE- QUENCIES. SAME AS NAVY TYPE -23364 EX- 5/7/45 JUN. 45	CW-23365 NXSS-20953* KEYER CONTROL UNIT: USED TO CONVERT THE "MARK" AND "SPACE" SIGNALS LEAVING THE DETECTORS NAVY TYPE CW-50133 AS DC PULSES TO NEGATIVE VOLT- AGES FOR "MARKING" SIGNALS AND LITTLE OR NO VOLTAGE FOR SPACES. INCLUDES RECTIFIER *(AN/FGC-1A) CW:X-61790F-1 4/1/43 CM:X-61790F-1 ISS. 1. CM:8- AUG. 44 LIST 1 405449, ISSUE 2	CRR:23367 CRR:23368 CRR:23369 CRR:23370-A CRR:23370-A CRR:23371
COL 23360 TCC-4 REMOTE CONTROL UNIT: INPUT 111 V. SINGLE PHASE, 25 TO 60 CYC. APPROX. 60 WATTS. CONTROLS OPERATION OF TRANSMITTER FROM REMOTE POSITION. IN- CLUDES MICROPHONE PREAMPLIFIER AND RELAY TO DISABLE RECEIVER DURING TRANSMISSION PERIODS. WEIGHT 50 POUNDS. 3/13/43 177G-5 172A-1 MAY 43	CBM 23361 QCP-1 REMOTE TRAINING CONTROL UNIT: CONSISTS OF A BEARING REPEATER SYNCHRONOUS GENERATOR, AND A LEFT-RIGHT PROJECTOR TRAINING SWITCH WHICH OPERATES 2 RELAYS PROVIDING FOR REVERSAL OF TRAINING MOTOR. THE CENTER POSITION IS OFF. INPUT 115/1/60 AT 3.8 AMPS. 5/2/43 757X SK-5494 AUG 43 ALT 0	CBM 23361 QCP-1 REMOTE TRAINING CONTROL UNIT: CONSISTS OF A BEARING REPEATER SYNCHRONOUS GENERATOR, AND A LEFT-RIGHT PROJECTOR TRAINING SWITCH WHICH OPERATES 2 RELAYS PROVIDING FOR REVERSAL OF TRAINING MOTOR. THE CENTER POSITION IS OFF. INPUT 115/1/60 AT 3.8 AMPS. 5/2/43 757X SK-5494 AUG 43 ALT 0	CBM 23365 TO OPERATE FROM 108 TO 132 V, 1 PHASE, 50 TO 60 CY WHICH FURNISHES THE REQUIRED NEGATIVE VOLTAGES. SUPPLIES FILAMENT POWER FOR NAVY TYPE CW-50136 RECEIVER CONTROL UNIT.	10/16/43 NOV. 43	CBM 23370-A QBE-3A REMOTE TRAINING CONTROL UNIT:  10/16/43 NOV. 43	CBM 23361 QCP-1 REMOTE TRAINING CONTROL UNIT: CONSISTS OF A BEARING REPEATER SYNCHRONOUS GENERATOR, AND A LEFT-RIGHT PROJECTOR TRAINING SWITCH WHICH OPERATES 2 RELAYS PROVIDING FOR REVERSAL OF TRAINING MOTOR. THE CENTER POSITION IS OFF. INPUT 115/1/60 AT 3.8 AMPS. 5/2/43 757X SK-5494 AUG 43 ALT 0	CBM 23365 TO OPERATE FROM 108 TO 132 V, 1 PHASE, 50 TO 60 CY WHICH FURNISHES THE REQUIRED NEGATIVE VOLTAGES. SUPPLIES FILAMENT POWER FOR NAVY TYPE CW-50136 RECEIVER CONTROL UNIT.	CBM 23370-A QBE-3A REMOTE TRAINING CONTROL UNIT:  10/16/43 NOV. 43
CMV 23362 PG CONTROL UNIT:  3/29/43 MAY 43	RE-8948A  3/29/43 MAY 43	RE-8948A  3/29/43 MAY 43	RNM 23366 TCS SERIES RE 13A838A REMOTE CONTROL UNIT: RE 23F 216 CONTROLS OPERATION OF TRANSMITTER, RE- CEIVER AND INTERPHONE AMPLIFIER. HAS 2 PHONE JACKS AND 2 MICROPHONE JACKS (600 OHMS IMPEDANCE) SAME AS -23355 EXCEPT DOES NOT INCLUDE SPEAKER AND SPEAKER DE- TAILS AND IS SMALLER. LEADS TERMINATE IN 4/3/43 MAR. 44	3/29/43 MAY 43	CBM 23370-A QBE-3a REMOTE TRAINING CONTROL UNIT INCLUDES SYNCHRONOUS GENERATOR THAT DE- VELOPS DISPLACEMENT VOLTAGE WHICH WHEN AMPLIFIED IN THE TYPE -20223 CONTROL RECTIFIER CONTROLS THE TRAINING MOTOR IN THE HOIST TRAIN UNIT. ALSO INCLUDES BEARING REPEATER DIAL AND A TRAINING 10/16/43 DEC. 44	CMV 23362 PG CONTROL UNIT:  3/29/43 MAY 43	RNM 23366 TCS SERIES RE 13A838A REMOTE CONTROL UNIT: RE 23F 216 CONTROLS OPERATION OF TRANSMITTER, RE- CEIVER AND INTERPHONE AMPLIFIER. HAS 2 PHONE JACKS AND 2 MICROPHONE JACKS (600 OHMS IMPEDANCE) SAME AS -23355 EXCEPT DOES NOT INCLUDE SPEAKER AND SPEAKER DE- TAILS AND IS SMALLER. LEADS TERMINATE IN 4/3/43 MAR. 44	CBM 23370-A QBE-3a REMOTE TRAINING CONTROL UNIT INCLUDES SYNCHRONOUS GENERATOR THAT DE- VELOPS DISPLACEMENT VOLTAGE WHICH WHEN AMPLIFIED IN THE TYPE -20223 CONTROL RECTIFIER CONTROLS THE TRAINING MOTOR IN THE HOIST TRAIN UNIT. ALSO INCLUDES BEARING REPEATER DIAL AND A TRAINING 10/16/43 DEC. 44
CIA 23363 RBF-1 ANTENNA SWITCHING UNIT: FOR SWITCHING ANTENNA TO EACH OF 10 RE- CEIVERS.  3/31/43 MAY 43	CIA:05495-1B  3/31/43 MAY 43	CIA:05495-1B  3/31/43 MAY 43	RNM 23366 LUGS AND NOT CONNECTOR PLUG (7 LEADS).  3/18/44 MAR. 44	3/31/43 MAY 43	CBM 23370-A POWER ON THE SWITCH. DOES NOT INCLUDE INDICATOR LAMPS. SIMILAR TO TYPE -23570 EXCEPT THAT DUAL RELATIVE BEARING SCALE IS REPLACED BY A SINGLE SCALE.	CIA 23363 RBF-1 ANTENNA SWITCHING UNIT: FOR SWITCHING ANTENNA TO EACH OF 10 RE- CEIVERS.  3/31/43 MAY 43	RNM 23366 LUGS AND NOT CONNECTOR PLUG (7 LEADS).  3/18/44 MAR. 44	CBM 23370-A POWER ON THE SWITCH. DOES NOT INCLUDE INDICATOR LAMPS. SIMILAR TO TYPE -23570 EXCEPT THAT DUAL RELATIVE BEARING SCALE IS REPLACED BY A SINGLE SCALE.
CW-23364 NXSS-20353* CONTROL PANEL: KEY METER AND JACK PANEL. MOUNTS OPERA- TING AND TESTING KEYS AND JACKS. ALSO INCLUDES DC METER WHICH OPERATES FROM OUTPUT OF NAVY TYPE CW-60061 TO GIVE AN INDICATION OF THE TWO CARRIER FREQ'S *AN/FGC-1A 4/1/43 CW:X-61790A-1 CM:B-405442 AUG. 44 FIG E ISSUE 2	ASSIGNED ISSUED	ASSIGNED ISSUED	CHX-23366-A TCS SERIES *SEE BELOW REMOTE CONTROL UNIT SAME AS BASIC NUMBER EXCEPT CASE IS SLIGHTLY THICKER AND THE BOX HAS BEEN WATERPROOFED. ELECTRICALLY & MECHANICAL- LY INTERCHANGEABLE.  *RE 13A 838A, PLUS ADDEND. #1; RE 23F216 3/18/44 MAR. 44	4/1/43 AUG. 44	CAN 23371 QGB KEYING UNIT: THIS UNIT PERFORMS TWO FUNCTIONS: 1. CONTROL OF SIGNAL LENGTH WITH AUTO- MATIC RANGE VARIABLE FEATURE 2. KEYING FREQUENCY FOR USE OF THE EQUIPMENT IN ROUTINE SEARCH. OVER ALL DIMENSIONS ARE *CRM:60352, ALT 0 5/21/43 AUG. 44 CRV:W-306398-77 REV 2 *SEE ABOVE	CW-23364 NXSS-20353* CONTROL PANEL: KEY METER AND JACK PANEL. MOUNTS OPERA- TING AND TESTING KEYS AND JACKS. ALSO INCLUDES DC METER WHICH OPERATES FROM OUTPUT OF NAVY TYPE CW-60061 TO GIVE AN INDICATION OF THE TWO CARRIER FREQ'S *AN/FGC-1A 4/1/43 CW:X-61790A-1 CM:B-405442 AUG. 44 FIG E ISSUE 2	CHX-23366-A TCS SERIES *SEE BELOW REMOTE CONTROL UNIT SAME AS BASIC NUMBER EXCEPT CASE IS SLIGHTLY THICKER AND THE BOX HAS BEEN WATERPROOFED. ELECTRICALLY & MECHANICAL- LY INTERCHANGEABLE.  *RE 13A 838A, PLUS ADDEND. #1; RE 23F216 3/18/44 MAR. 44	CAN 23371 QGB KEYING UNIT: THIS UNIT PERFORMS TWO FUNCTIONS: 1. CONTROL OF SIGNAL LENGTH WITH AUTO- MATIC RANGE VARIABLE FEATURE 2. KEYING FREQUENCY FOR USE OF THE EQUIPMENT IN ROUTINE SEARCH. OVER ALL DIMENSIONS ARE *CRM:60352, ALT 0 5/21/43 AUG. 44 CRV:W-306398-77 REV 2 *SEE ABOVE

Class 23—Control Panels and Control Units

3.23-25

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
-----------------------	--------------------	-------------------------------	-----------------------	--------------------	-------------------------------	-----------------------	--------------------	-------------------------------

CAN23371  
6"X8-1/2"X6-3/4". RANGES 3000/5000 YARDS.

CBM23372-B  
BEARING (MTB) ON A ONE SPEED GYRO RATIO SYSTEM. SAME AS -23372-A EXCEPT INCLUDES GEAR BOX AND MINOR CHANGES IN AMPLIDYME AMPLIFIER.

CFL 23378 MN-4  
REMOTE CONTROL UNIT:  
CONSISTS OF: POWER ON-OFF SWITCH; RECEIVE AND TRANSMIT PILOT LIGHTS; VOLUME CONTROL; CONNECTORS FOR TWO HEADGEAR ASSEMBLIES. CONTROLS TYPE -43048 TRANSMITTER RECEIVER.

6/28/43 1564-C 1564-4  
NOV. 43

CAN-23371-A  
KEYING UNIT:  
THIS UNIT PERFORMS TWO FUNCTIONS: (1) CONTROL OF SIGNAL LENGTH WITH AUTOMATIC RANGE VARIABLE FEATURE (2) KEYING FREQUENCY FOR USE OF THE EQUIPMENT IN ROUTINE SEARCH. OVER ALL DIMENSIONS ARE 6" X 8 1/2" X 6 3/4". RANGE 1000, 2000 & 7/31/44  
FEB. 45

CM-23373 \*(AN/FGC-1A)  
KEYER COUPLING UNIT:  
USED FOR COUPLING NAVY TYPE CM-35031 FREQUENCY SHIFT KEYER UNIT TO NAVY MODEL TBC-2 OR TBC-3 RADIO TRANSMITTER.

\*FIRST PURCHASE: NXSS-20953  
6/3/43 CM:X-61790L1 CM:X-61790L1-L1  
MAR. 44 LIST 1 B-405452 ISS. 2

CJJ 23379 OAU  
AMPLIFIER CONTROL UNIT:  
MOUNTS UNDER TOP OF -10230 HOUSING SO THAT METERS CAN BE READ THROUGH A GLASS WINDOW IN THE HOUSING. HAS SHAFTS EXTENDING THROUGH WATERTIGHT PACKINGS IN TOP OF HOUSING SO AMPLIFIER CAN BE CONTROLLED FROM OUTSIDE THE HOUSING. PANEL 7/2/43 CM:ASO-33575 CM:ASO-34063  
MAR. 44 ISSUE 2

CAN-23371-A  
3000 YARDS. SAME AS 23371 EXCEPT FOR RESISTOR CONNECTIONS, AND RANGES.

CM-23374 \*(AN/FGC-1A)  
KEYER COUPLING UNIT:  
USED FOR COUPLING NAVY TYPE CM-35031 FREQUENCY SHIFT KEYER UNIT TO NAVY MODEL TBA-1 OR TBC RADIO TRANSMITTERS.

\*FIRST PURCHASE: NXSS-20953  
6/3/43 CM:X-61790P-1 CM:X-61790P1-L1  
AUG. 44 LIST 1 B-405471 ISS. 1

CM:23379  
HAS "ON-OFF" SWITCH. GAIN CONTROL. DC VOLTMETER AND A MILLIAMETER.

CBM23372 QCS-1 QCT-1  
REMOTE CONTROL UNIT (FOR HOIST TRAIN): INCLUDES THE CONTROL AMPLIFIER, BEARING AND GYRO REPEATER ASSEMBLY, HOIST AND LOWER PUSH BUTTONS, START STOP CONTROL AND OTHER MISCELLANEOUS CONTROLS. SAME AS TYPES 23235 AND 23350 EXCEPT DOES NOT INCLUDE EITHER A 5/24/43 CBM:757AB CBM:60174  
SEPT 43 ALT 1

CJJ 23375 OAS  
AMPLIFIER CONTROL UNIT:  
ENCLOSED IN WATER-TIGHT CASE, SUITABLE FOR OPERATION ON DECK OF TOWING BOAT. INCLUDES AN INVERTER FOR CONVERSION OF 12 V DC POWER TO 110 V SINGLE PHASE 60 CY. PANEL INCLUDES AMPLIFIER REMOTE GAIN CONTROL, INVERTER OUTPUT VOLTAGE METER, 6/7/43 CM:ASX-33522 CM:ASO-33517  
NOV. 43 ISSUE 1

CEJ 23390 TDU  
CONTROL PANEL:  
INPUT 230/3/60. SUPPLIES FILAMENT POWER TO P.A. TUBES THROUGH STEP-START CIRCUIT CONTAINS MOST OF CONTROL CIRCUIT COMPONENTS INCLUDING RECTIFIER OVERLOAD RELAYS AND THERMAL OVERLOAD CIRCUIT BREAKERS. TYPE NUMBER ALSO INCLUDES MODIFICATION 7/2/43 CRV:MI-7252C P-718828  
AUG. 44 SUB 0

CBM23372  
STEP-BY-STEP MOTOR OR SYNCHRONOUS MOTOR.

CM-23375  
AMPLIFIER OUTPUT SIGNAL POWER METER, DEPTH GAUGE TO INDICATE HOUSING (CM-10216) DEPTH, ON-OFF SWITCH.

CEJ23380  
KIT CONTAINING CONTACTOR AND RELAY COILS FOR 50 CYCLE OPERATION.

CBM23372-A QCS-1a, QCT-1a  
REMOTE CONTROL UNIT (FOR HOIST-TRAIN): NAVY TYPE -23372 MODIFIED BY ADDING A 5 PDT, A 115/78 VOLT, 25 WATT TRANSFORMER, A 30-10 MFD/PHASE CAPACITOR FOR MAINTENANCE OF TRUE BEARING (MTB) ON A 36 SPEED GYRO RATIO SYSTEM. SAME AS -23372-B EXCEPT DOES NOT 11/1/43  
NOV. 43

23376 GEN RADIO USE RE 13A 797A  
RADIO TELEPHONE CONTROL UNIT:  
PROVIDES A MEANS FOR CONTROLLING ANY ONE OF 10 RADIO TELEPHONE TRANSMITTERS THROUGH SELECTION OF THE PROPER CONTROL CIRCUITS BY MEANS OF SWITCHES TRANSFERRING THE DESIRED CONTROL CIRCUITS TO THE OPERATOR.  
6/16/43  
SEPT 43

CAY 23381 TDE-1 CAY:P-771  
REMOTE CONTROL UNIT:  
SAME AS -23305 EXCEPT 1. CASE AND COVER MADE OF ZINC DIE CASTING INSTEAD OF STEEL 2. ALL COMPONENT PARTS ARE MOUNTED ON PANEL, WHICH IS REMOVABLE, REAR GASKETED PLATE IS ELIMINATED 3. SWITCHES ADDED 4. TERMINAL BOARD HAS 10 TERMINALS 7/8/43 DL-7502437, C-5 CAY:P-7710615  
SEPT. 43 REV 0

CBM23372-A  
INCLUDE GEAR BOX. ALSO, -23372-B HAS MINOR WIRING CHANGES IN THE AMPLIDYME AMPLIFIER.

COL 23377 TDO  
REMOTE CONTROL UNIT:  
INPUT: 115/1/50 TO 60, 25 WATTS, 0.85 PF CONTROLS STARTING, FREQUENCY CHANGE, KEYING AND CHANNEL INDICATIONS. WILL FUNCTION UP TO DISTANCES WHICH DO NOT EXCEED 25.0 DB LOSS IN THE CABLE AND DO NOT HAVE A LOOP RESISTANCE IN EXCESS OF 6/22/43 COL:177G-B COL:2575A  
NOV. 43

CAY23301  
TO PROVIDE 4-6 WIRE CONTROL'S 5. PILOT LIGHT CHANGED TO SMALLER TYPE.

CBM23372-B QCS-1a, QCT-1a  
REMOTE CONTROL UNIT (FOR HOIST-TRAIN): NAVY TYPE -23372 MODIFIED BY ADDING A 5 PDT SWITCH, A 115/78 VOLT, 25 WATT TRANSFORMER, A 30-10 MFD/PHASE CAPACITOR, MINOR WIRING CHANGES IN THE AMPLIDYME AMPLIFIER AND A 1/36 GEAR BOX FOR MAINTENANCE OF TRUE 11/1/43  
NOV. 43

COL23377  
1000 OHMS. UNIT IS RACK MOUNTED. SIMILAR TO TYPE -23351 EXCEPT HAS DYNAMIC INSTEAD OF CARBON MICROPHONE, HAS NO PUSH TO TALK CIRCUIT RELAY, AND HAS DIFFERENT TERMINAL ARRANGEMENT.

CBM23382 MCA-2  
TRAINING REMOTE CONTROL UNIT:  
INCLUDES LOUDSPEAKER OF THE RANGING OR LISTENING SYSTEM. HAS TWO INDICES ON THE PROJECTOR BEARING DISC, ONE FOR QC AND ONE FOR JK, 180° APART. SAME AS TYPE -23279 EXCEPT THAT THE BEARING REPEATER MOTOR MAY ONLY BE SWITCHED ON OR 7/8/43 CBM:757AAJ CBM:60096 ALT 2  
SEPT 43

DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER
------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------

CONFIDENTIAL

NAVSHIPS 900,109

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
		CBM23382						
		OFF AND CANNOT BE TRANSFERRED FROM "SOUND MG" TO "SHIPS AC".	CAN-23387	QFA-3	SS STEERING STAND IDENTICAL IN APPEARANCE TO CAN-23266-A HELMSMAN'S STAND BUT STEERING WHEEL IS REPLACED BY A KNOB FOR CONTROL OF RUDDER ANGLE. COMPLETE CONTROL OF SUBMARINE MOTION AND REPEATING OF ALL INFORMATION WITH RESPECT TO SOUND BEARING AND SUB-	CBM23389-A	SF-1	TUNING CONTROL UNIT CONSISTS OF A RESONANCE INDICATING METER A SWITCH WHICH CONTROLS A TUNING MOTOR IN THE ANTENNA ASSEMBLY, AND PROVISIONS FOR A PILOT LAMP FOR THE TUNING MOTOR (DOES NOT INCLUDE LAMP). SAME AS -23389-A EXCEPT HAS PROVISIONS FOR A 110V. 6 WATT
		8/3/43 MAR. 44			8/3/43 REV 0 MAR. 44			1/13/44 MAR. 44
CBM23382-A	WCA-2	TRAINING REMOTE CONTROL UNIT: INCLUDES LOUDSPEAKER OF THE RANGING OR LISTENING SYSTEM. HAS TWO INDICES ON THE PROJECTOR BEARING DISC. ONE FOR QC AND ONE FOR JK 180° APART. SAME AS TYPE -23279 EXCEPT THAT THE BEARING REPEATER MOTOR MAY ONLY BE SWITCHED ON OR			CAN-23387			CBM23389-A
		7/8/43 CGM:757AA CBM:60096 ALT 2 SEPT 43			MARINE HEADING IS PROVIDED. A SWITCH ON THE OPTICAL PROJECTOR CONTROL PANEL PROVIDES FOR TRANSFER OF SUBMARINE CONTROL FROM THIS UNIT TO THE OPTICAL PROJECTOR. INTERNALLY THIS UNIT DIFFERS FROM CAN-23266-A; INCLUDES SOUND EFFECTS GENERATORS.			LAMP AND HAS 0.1 MFD CAPACITOR ADDED. CHANGE MADE IN TERMINAL BOARD.
		2082382-A						
		OFF AND CANNOT BE TRANSFERRED FROM "SOUND MG" TO "SHIPS AC". SAME AS TYPE -23382 EXCEPT QC INDEX IS NOT MARKED.	CAN23387-A	QFA-5	S S STEERING STAND SAME AS 23387 EXCEPT (1) HYDROPHONE GENERATOR REDESIGNED TO SIMPLIFY THE CIRCUIT AND IMPROVE THE QUALITY OF THE SOUND GENERATOR (2) A CHANNEL IS PROVIDED FOR HEARING SHIP'S OWN SCREWS IN SHIP'S SOUND EQUIPMENT. (3) ATTENUATOR	CW 23390	OBC	RECEIVER CONTROL UNIT CONSISTS ESSENTIALLY OF THREE MOTOR-DRIV. CAMS & THREE RELAYS SO ARRANGED AS TO CONTROL THE MOVEMENT OF THE PAPER IN THE RECORDING METER TO TRANSFER OF THE METER FROM ONE RECEIV.-AMPLIF.-DET. CIRC. TO THE OTHER & TO TIME THE DISCHARGE OF EA. CIRC.
		7/15/43 CG:11K247 CG:M-8283502 SEPT 43			6/2/44 REV 0 SEPT. 44			8/19/43 X-63637C-1 CW:X-63537F-1 NOV. 43 ISSUE 1
CG-23383	SM-1	17C10			CAN23387-A			CACS 23391
		CONTROL PANEL: CONSISTS OF A VOLTAGE REGULATOR, EXCITER FIELD RHEOSTAT, MOTOR FIELD RHEOSTAT, LINE VOLTMETER AND LOCAL PUSH BUTTONS. USED WITH TYPE CG-211068 MAGNETIC CONTROLLER TO START, STOP AND PROTECT THE CG-211065 MOTOR-GENERATOR SETS.			UNIT IS REDESIGNED. MECHANICALLY & ELECTRICALLY INTERCHANGEABLE WITH -23387.			*SEE BELOW
		7/15/43 CG:11K247 CG:M-8283502 SEPT 43						REMOTE CONTROL ASSEMBLY CONSISTS OF -29227 RELAY UNIT, AND -23398 REMOTE CONTROL UNIT AND SPARE PARTS (SPARE JACK COVERS, BINDING POSTS)
COL23384	TDH-3				CAN-23387-B	QFA-6		
		REMOTE CONTROL UNIT: INPUT: 115/1750 OR 60. 52 WATTS. 0.86PF INCLUDES POWER SUPPLY, AUDIO AMPLIFIER AND RECEIVER DISABLING CORD. CONTROLS COL-52291 TRANSMITTER, AMPLIFIER GAIN IS 45DB AND FREQUENCY RESPONSE IS WITHIN ±1.5DB BETWEEN 150 AND 3500 CYCLES.			SS STEERING STAND PROVIDES FOR COMPLETE CONTROL OF SUBMARINE MOTION AND REPEATING OF ALL INFORMATION WITH RESPECT TO SOUND BEARING AND SUBMARINE HEADING. SWITCH ON THE OPTICAL PROJECTOR CONTROL PANEL PROVIDES FOR TRANSFER OF SUBMARINE CONTROL FROM THIS			
		7/17/43 COL:177G-9 COL:1962B SEPT 43			10/31/44 REV 0 MAR. 45			8/26/43 NOV. 43
CAN-23385	QFA-3				CAN-23387-B			
		TRUE BEARING FOLLOWER UNIT CONSISTS OF A 5G SYNCHRO AND A 5000 OHM POTENTIOMETER IN A 6" X 7" X 9" BOX. SYNCHRO IS ROTATED BY A KNOB AND IS COUPLED TO THE TRUE BEARING FOLLOWER LINE AND VARIOUS OTHER SYNCHROS FOR SYNTHESIZING HYDROPHONE EFFECT AND FOR			UNIT TO THE OPTICAL PROJECTOR. SAME AS -23387-A EXCEPT FOR (1) MINOR ALTERATIONS IN HYDROPHONE SOUNDS GENERATOR (2) BEARING ATTENUATION WILL BE MODIFIED BY ADDITION OF A "SIGNAL SPLITTER".			
		8/3/43 MAR. 44			8/19/42 REV 0 MAR. 44			8/26/43 NOV. 43
		CAN-23385						
		BEARING DEVIATION INDICATION. POTENTIOMETER IS USED FOR RANGE ATTENUATION. CONNECTS TO OPTICAL PROJECTOR BY 20 FOOT CABLE.	CAN23388	QFA-3	SOUND CONTROL UNIT SAME AS CAN-23344 EXCEPT FOR ADDITION OF CATHODE RAY TUBE FOR BEARING DEVIATION INDICATION. INDICATOR CONTROL CIRCUIT HAS BEEN SIMPLIFIED TIME-VARIATION-OF-GAIN HAS BEEN ADDED TO THE RECEIVER-AMPLIFIER. CHANGES MADE IN WIRING OF AMPLIFIER.			CW-23394
		8/5/43 MAR. 44			8/5/43 REV 0 MAR. 44			JS. CXEM SELECTOR UNIT
CAN23386	QFA-3				CBM23389	SF-1		
		SS SOUND CONTROL UNIT EXTERNALLY IDENTICAL TO CAN-23344 SOUND CONTROL UNIT EXCEPT FOR OMISSION OF VARIOUS CONTROLS AND SUBSTITUTION OF LEVER FOR TRAINING HANDWHEEL. INTERNALLY RANGE INDICATOR, REMOTE CONTROL AND RECEIVER AMPLIFIER HAVE BEEN REDESIGNED.			TUNING CONTROL BOX CONSISTS OF A RESONANCE INDICATING METEF. A SWITCH WHICH CONTROLS A TUNING MOTOR IN THE ANTENNA ASSEMBLY, AND PROVISIONS FOR A PILOT LAMP FOR THE TUNING MOTOR. (DOES NOT INCLUDE LAMP).			
		8/3/43 MAR. 44			8/5/43 REV 0 NOV. 43			8/30/43 NOV. 43
		8/5/43 MAR. 44			8/5/43 REV 0 NOV. 43			CW:ESO-667181 ISSUE 0
		8/5/43 MAR. 44			8/5/43 REV 0 NOV. 43			CW-23395
		AN/FGC-1A						KEYER COUPLING UNIT: USED FOR COUPLING NAVY TYPE CW-35031 FREQUENCY SHIFT KEYER UNIT TO NAVY MODEL TBA-10 RADIO TRANSMITTER.
		9/1/43 AUG. 43			9/1/43 AUG. 43			CW:X-61790R1 LIST 1
		9/1/43 AUG. 43			9/1/43 AUG. 43			CW:X-61790R1-L 1 B-403544-1
DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER

Class 23—Control Panels and Control Units

3.23-27

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CBM 23396	*SEE BELOW		COQ- 23403	MXSR-39200		CMT- 23409	QBH	
LOCAL TRAINING CONTROL UNIT CONSISTS OF A -24263 TRAINING SWITCH, 24262 STOP START SWITCH, AND A GENERATOR PILOT LAMP, ALL MOUNTED IN A FABRICATED CASE. MXSS 31867 *ACCESSORY FOR VCA 9/18/43 982 SK-5982 MAR. 44 ALT 0			LINE CONTROL UNIT USED FOR CONNECTING A TELEGRAPH PRINTER TO LINE FOR NEUTRAL OPERATION & FOR CONTROLLING THE LINE CURRENT. OVERALL DIMENSIONS 8 1/4" X 6" X 6 3/8".  11/6/43 (SIG: CORPS) SC-D-8701-D DEC. 44 BE-77A			TRAINING CONTROL UNIT INPUT: 115/1/60, 100 WATTS. INCLUDES INTERNAL MOTOR RECTIFIER DESIGNED TO MOUNT IN CONSOLE WITH DRIVER AND RE- CEIVER. BY MANUAL OPERATION OF A HAND- WHEEL ON THIS UNIT THE WATERSTATION MIRROR MAY BE ROTATED OR TILTED. INCLUDES 9/30/43 GU-1650 8216 AUG. 44		
CFL 23397	MAC		COQ- 23403-A	MXSR-69273		CMT-23409		
REMOTE CONTROL UNIT CONSISTS OF PROVISIONS FOR FOUR INDJ- CATING LAMPS, THREE SWITCHES, A 12 CIRCUIT AND A 4 CIRCUIT RECEPTACLE EN- CLOSED IN A BOX.  9/18/43 1542-C CFL:1542-3, NOV. 43 PRELIM.			LINE CONTROL UNIT: USED FOR CONNECTING A TELEGRAPH PRINTER TO LINE FOR NEUTRAL OPERATION AND FOR CONTROLLING THE LINE OPERATION. OVERALL DIMENSIONS 8 1/4" X 6" X 6 3/8". SAME AS -23403 EXCEPT IS MOISTURE AND FUNGEE'S PROOFED AND DOOR CATCH IS IMPROVED. 8/11/44 BE-77-A SC-D-8701-D NOV. 44			AZIMUTH AND VERTICAL TILT INDICATOR.		
CACS 23398	GENERAL USE * RE 23A213A		23404	GENERAL USE		COL- 23410	TCZ	
REMOTE CONTROL UNIT RE 92708  *FOR USE WITH TCS AND -29227 RELAY UNIT 9/20/43 MAR. 44			ANTENNA TRANSFER PANEL 30 X 30 JACKS, CONCENTRIC, SOLID DIELECTRIC.  9/28/43 RA 49F241 NOV. 43			REMOTE CONTROL UNIT HAS FACILITIES FOR: EMISSION SELECTION, KEY JACK, TELEPHONE MICROPHONE JACK, START-STOP SWITCHING, CHANNEL SELECTION, HEADPHONE JACK, AND RECEIVER VOLUME CONTROL. INCLUDES BUILT-IN LOUDSPEAKER. SIMILAR TO -23330 EXCEPT HAS LOUDSPEAKER 10/12/43 314N-2 CBL:K-1104C NOV. 43		
CRP- 23399	90-7M		23405	GENERAL USE		CKB 23411	*SEE BELOW	
POWER CONTROL UNIT UNIT HOUSES REMOTE CONTROL FOR STARTING & STOPPING -73024 GASOLINE ENGINE GENER- ATOUR SET AND CONNECTING OUTPUT OF EITHER 60 CYCLES ALTERNATOR TO RADAR EQUIPMENT. PROVIDES FOR CONNECTING EX- TERNAL 115V 60 CYCLE 3 KYA POWER SOURCE 9/22/43 MX-5626 CRP:22N-W38 DEC. 43 SUB C			ANTENNA TRANSFER PANEL 18 X 18 JACKS, CONCENTRIC, SOLID DIELECTRIC.  9/28/43 RA 49F242 NOV. 43			MIXER-CALIBRATOR UNIT INPUT: 110/1/60 0.5 AMPS, 50 WATTS. IN- CLUDES CRYSTAL OSCILLATOR FOR CALIBRATING ASSOCIATED RECEIVER AT 4235 KC AND FIRST FOUR HARMONICS; INDICATING LIGHTS TO SHOW OPERATING RECEIVER, LEVER SWITCHES *FOR USE WITH RBN MXSR-38318 11/26/43 NOV. 43		
CRP- 23399			23406	GENERAL USE		CKB 23411		
TO EQUIPMENT. LINE VOLTMETER AND FRE- QUENCY METER ON PANEL. 2 CAPPED FUSED RECEPTACLES ARE PROVIDED SUPPLYING 115V 60 CYCLES POWER FOR SOLDERING IRON ETC. MOUNTING HOLES 17/32" DIA.			ANTENNA TRANSFER PANEL 9 X 18 JACKS, CONCENTRIC, SOLID DIELECTRIC.  9/28/43 RA 49F 243 NOV. 43			TO SELECT ANY RECEIVER OR ALL FIVE RE- CEIVERS AT ONCE; OUTPUT JACKS FOR HEAD- PHONES; PROVISIONS FOR FIVE INTERCONNECT- ING CABLES (ONE EACH FOR THE FIVE RE- CEIVERS). SAME AS TYPE -23273 EXCEPT HAS FIVE HEADPHONE OUTPUTS INSTEAD OF ONE AND USES NAVY APPROVED COMPONENTS.		
CRV- 23400	QGB		23407	GENERAL USE		CBM 23412	QGA	
TRAINING CONTROL UNIT INPUT: 110/1/60, 600 WATTS. CONSISTS OF CONSOLE SHAPED HOUSING CONTAINING THE TRAINING CONTROL UNIT HANDWHEEL, OPERAT- ING CONTROLS, BEARING INDICATOR AND PORTS FOR VIEWING THE BDI AND INDICATOR RANGE RECORDER. 9/26/43 MI-16718 CRV:M-306807 NOV. 43 SUB 0			ANTENNA TRANSFER PANEL 12 X 12 JACKS, CONCENTRIC, SOLID DIELECTRIC.  9/28/43 RA 49F 244 NOV. 43			POWER CONTROL UNIT INCLUDES EQUIPMENT START-STOP SWITCH, TRAINING POWER SUPPLY START-STOP SWITCH, HOIST-LOWER SWITCH AND EIGHT INDICATING LAMPS. SAME AS TYPE -23419 EXCEPT FOR TERMINAL PANEL ENGRAVING.  1/20/43 953A CBN:60345 FEB. 44 ALT 0		
CG- 23401	TBA-12, 13		CAIN 23408	*SEE BELOW		CBM- 23412-A QGA-1		
REMOTE CONTROL UNIT STANDARD PUSH BUTTON STATION MODIFIED TO INCLUDE A 6 POINT TERMINAL BOARD. HAS NORMALLY OPEN "START" BUTTON, NORMALLY OPEN "STOP" BUTTON, AND A SIGNAL LAMP. *CR-2940-2CD34A COVER 2245126G17, MODIFIED AS PER CG DWG 9/26/43 *SEE ABOVE CG:747D23656 NOV. 43 REV 1			TRUE BEARING CONTROL UNIT OPERATES FROM SHIP'S GYRO COMPASS OUTPUT TO AUTOMATICALLY COMPENSATE FOR CHANGES OF COMPASS HEADING OF SHIP UPON WHICH EQUIPMENT IS MOUNTED AND TO INTRODUCE SUCH COMPENSATION INTO THE CONSTANT *FOR USE WITH YG 9/29/43 CRV:AS-5795-G CRV:T-ET1910 SUB: NOV. 43 MODIFIED H-427704 SUB 0			POWER CONTROL UNIT:  CANCELLED		
RM- 23402	JR-2		CAIN 23408			12/7/44 953C JAN. 45		
RECTIFIER & SWITCHING UNIT			SPEED DRIVE OF THE ANTENNA CONTROL UNIT NAVY TYPE CRV-23271. HAS PROVISIONS FOR MANUAL CONTROL.			CBN 23413 QGA CONTROL CONSOLE (WITH TILT CONTROL): INCLUDES CRO ASSEMBLY -55112 RECORDER, -23371 KEYING UNIT AND TRAINING CONTROL UNIT CONSISTING OF 3 SYNCHRONOUS GENERATORS, CONTROL PANEL CONTAINS GAIN CONTROL POTENTIOMETER, RANGE SELECTOR SWITCH, FLYBACK CONTROL 12/16/43 954A 60348 MAR. 45 ALT 0		
9/27/43 NOV. 43								

CONFIDENTIAL

NAVSHIPS 900,109

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CBM23413			CG-23418	TDR		CAN-23422-A	QFA-C, QFA-1C QFA-2a	
MECHANICALLY CONNECTED TO RECORDER, TILT CONTROL POTENTIOMETER.			REMOTE CHANNEL SELECTOR POWER SUPPLY IS FROM TRANSMITTER. FOR SELECTING 1 OF 10 PRESET FREQUENCIES FROM A REMOTE LOCATION.			ATTACK AIDS ADAPTER: SAME AS NAVY TYPE CAN-23422 EXCEPT USES TERMINAL BOARD WITH 60 TERMINALS FOR USE WITH THE VARIOUS ATTACK AIDS INSTEAD OF 30. MECHANICALLY AND ELECTRICALLY INTERCHANGEABLE WITH -23422.		
			1/17/44 4MC37A1	P-7767203		4/8/44		
			FEB. 45	REV 05		JULY 44		
CBM-23413-A QGA-1			CBM23419	QGA		CAN23422-B	QFA-5	
CONTROL CONSOLE (WITH TILT CONTROL):			POWER CONTROL UNIT			ATTACK AIDS ADAPTER		
CANCELLED			INCLUDES EQUIPMENT START STOP SWITCH, TRAINING POWER SUPPLY START-STOP SWITCH, HOIST LOWER SWITCH AND EIGHT INDICATING LAMPS. SAME AS TYPE -23412 EXCEPT FOR TERMINAL PANEL ENGRAVING.			SAME AS -23422 EXCEPT STEP MOTORS COILS ARE PLACED BETWEEN CATHODES OF THE SWITCHING TUBES AND GROUND.		
12/7/44 954C			1/20/44 953B	CBM:60345		6/6/44		811945
JAN. 45			FEB. 44	ALT 0		AUG. 44		REV 0
CBM23414	QGA		CBM-23419-A	QGA-1		CANU23423	GEN RADIO USE RE 9491A	
CONTROL CONSOLE			POWER CONTROL UNIT:			RADIOPHONE UNIT		
INCLUDES CRO ASSEMBLY, -55112 RECORDER, -23371 KEYING UNIT AND TRAINING CONTROL UNIT CONSISTING OF 3 SYNCHRONOUS GENERATORS. CONTROL PANEL CONTAINS GAIN CONTROL POTENTIOMETER, RANGE SELECTOR SWITCH, SAME AS -23413 EXCEPT HAS NO			CANCELLED			TELEPHONE: 10 WIRE CIRCUITS FOR TELEPHONE COMMUNICATION; SUPPLY 115 OR 230 VOLTS AC-DC. TELEGRAPH: 4 OR 6 WIRE CIRCUITS FOR START-STOP OF TRANSMITTING EQUIPMENTS AND TERMINALS FOR EXTERNAL KEY ELECTRICALLY SAME AS -23211-B;		
12/16/43 954B	60350		12/7/44 953D			3/7/44 660		5-660-9
MAR. 45	ALT 0		JAN. 45			DEC. 44		
			CBM23414			23423		
			TILT CONTROL POTENTIOMETER.			MECHANICALLY DIFFERENT INASMUCH AS THIS UNIT HAS DIFFERENT CASE WHICH IS NOT WATERPROOF. SIMILAR TO -23420 EXCEPT OF BETTER DESIGN BUT NOT MECHANICALLY INTERCHANGEABLE.		
			CAKA23420	MIXR-47415				
			RADIOPHONE UNIT					
			TO BE USED AS A STOP-GAP FOR NAVY TYPE -23211 RADIO PHONE UNIT. IS NOT COMPLETELY ELECTRICALLY OR MECHANICALLY INTERCHANGEABLE WITH TYPE -23211.					
			*NY NAVY YARD SKETCH 252	ALT 4				
			1/20/44	CAKA:RE-101				
			AUG. 44	*SEE ABOVE				
CBM-23414-A	QGA-1		CRV23421	QCU		CRV23424	RDM	
CONTROL CONSOLE:			REMOTE TRAINING CONTROL			MONITORING PANEL		
CANCELLED			UNIT: INPUT: 115/1/60 100 WATTS. OUTPUT CONTROLLED BY HANDWHEEL ON PANEL. SUPPLIES 115/1/60, 35 WATTS, 0.3 AMP TO TRAINING MOTOR. HANDWHEEL IS COUPLED TO BEARING REPEATER MOVABLE POINTER. OUTER SCALE IS FIXED & INNER MOVABLE SCALE IS			3/9/44		
12/7/44 954D			2/12/44	CRV:M-307012-3		MAR. 44		
JAN. 45			FEB. 44					
CML23415	JR-1		CRV23421			CRV23425	RDM	
RECTIFIER & SWITCHING UNIT			DRIVEN BY A FLEXIBLE SHAFT FROM A FIXED POINT NEAR HELMSMAN'S COMPASS. SIMILAR TO -23264 EXCEPT COMPONENT PARTS ARE REARRANGED AND ADDITION OF SELSYNS REQUIRE:			ANTENNA PANEL		
RACK MOUNTED IN NAVY TYPE CDB-10300 MOUNTING RACK.			ADDITIONAL JACK & PLUG.					
12/29/43 02733	02904		3/9/44			MAR. 44		
DEC. 44								
CBM23416	WEB		CAN23422	QFA-3, QFA-4		CW-23426	UG	
TRAINING REMOTE CONTROL UNIT			ATTACK AIDS ADAPTER			LINE CONTROL UNIT		
INCLUDES LOUDSPEAKER OF THE RANGING OR LISTENING SYSTEM. HAS TWO INDICES ON THE PROJECTOR BEARING DISC. ONE FOR QC AND ONE FOR JK. SAME AS -23382-A EXCEPT FOR SIZE AND SHAPE OF CASE. ALSO HAS RED ILLUMINATION OF SCALE.			CONSISTS OF A CONTACTING DEVICE FOR OPERATION OF DRT(DEAD RECKONING TRACER) AND ATTACK PLOTTER FROM QFA-3 OR QFA-4 ATTACK TEACHER, A CONVERSION DEVICE TO ADAPT THE 60 SPEED SYNCHRO SYSTEM OF THE TEACHER TO THE UNIT SPEED OF THE A.P. &			CONTAINS LINE COILS, CHANNEL BAND FILTERS, VACUUM-TUBE-CARRIER SUPPLY OSCILLATORS, METER AND TEST EQUIPMENT, BINDING POSTS FOR CONNECTING TO LINE, LOAD AND GROUND LEADS. HAS SWITCHES TO CONTROL LINE OPERATION IN SELECTING		
1/4/44 757AC	SK-5864		2/26/44	811945		3/17/44 X-66314B		
FEB. 44	ALT 0		MAR. 44	REV 0		MAR. 44		
CG-23417	DE-1		CAN23422			CHANNELS.		CW-23426
SYNCHRONIZATION CONTROL			A TORQUE AMPLIFIER TO DRIVE THE AP & ORT STEP MOTOR FROM THE COORDINATE MOTORS OF THE TEACHERS. OPERATES FROM 115/1/60. POWER REQUIREMENT IS APPROXIMATELY 900 WATTS.					
100 KC BUFFERS AND PHASE SHIFTER AS WELL AS MECHANICAL SYSTEM USED FOR AUTOMATIC SYNCHRONIZATION BY FREQUENCY AND PHASE CORRECTION.								
1/7/44 DL 4W419A								
FEB. 44								

DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER
------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------

Class 23—Control Panels and Control Units

3.23-29

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
-----------------------	--------------------	-------------------------------	-----------------------	--------------------	-------------------------------	-----------------------	--------------------	-------------------------------

**CW-23427 UH**  
CONTROL UNIT  
INCLUDES FILTERS FOR SEPARATING CHANNEL CURRENTS TOWARD TRANSMITTER AND RECEIVER AMPLIFIERS RESPECTIVELY AND ATTENUATORS TO ADJUST TRANSMISSION LEVELS AND A LEVEL INDICATING METER AND POWER RECTIFIER. HAS BIND-POSTS FOR CONNECTION TO 3/17/44 X-663158  
MAR. 44

**CW-23427**  
RADIO. LINE AND GROUND LEADS.

**CBM-23428 NXsr-35032**  
DOME SEATING CONTROL UNIT:  
SIMILAR TO -23332-A EXCEPT A HOIST SWITCH AND A LOWER SWITCH HAVE BEEN ADDED. THE MOTOR-BRAKE RELAY HAS BEEN CHANGED FROM A LEACH 10 DUNCO TYPE. THE EMERGENCY STOP BUTTON HAS BEEN CHANGED FROM CUTLER-HAMMER TO ARROW HART AND HEGEMAN 3/30/44 9168 60344  
MAY 44 ALT 0

**CBM-23428**  
TYPE WHICH CAN BE LOCKED IN OFF POSITION. TERMINAL PANEL IS NEW AND ALL STEEL SCREWS ARE REPLACED BY BRASS SCREWS.

**CMX-23429 FOR USE WITH TCS SERIES**  
REMOTE CONTROL UNIT:  
FOR CONTROLLING THE TRANSMIT, RECEIVER AND INTERPHONE FUNCTIONS OF THE MODEL TCS SERIES OR THE SIGNAL CORPS RADIO SETS SCR-508, SCR-528, AND SCR-538.  
4/17/44 RE13A949A  
MAY 44

**CHX-23429-A \*SEE BELOW RE 13A 949A**  
REMOTE CONTROL UNIT:  
FOR CONTROLLING THE TRANSMIT RECEIVE AND INTERPHONE FUNCTIONS OF THE MODEL TCS SERIES OR THE SIGNAL CORPS RADIO SETS SCR-508, SCR-528, AND SCR-538. SAME AS -23429 EXCEPT FOR ARRANGEMENT OF CONTROLS \*FOR USE WITH TCS SERIES  
4/26/44  
OCT. 44

**CW-23430 QJB**  
CONTROL CONSOLE:  
CONSISTS OF A TYPE -10336 CONSOLE RACK, A -23431 TRAINING CONTROL UNIT A -35050 OSCILLATOR UNIT, A -46248 RECEIVER UNIT, A -50180 TRAINING CONTROL AMPLIFIER A -50181 DRIVER AMPLIFIER A -55150 REORDER AND KEYING UNIT AND A -55151 IN-4/20/44 D-168461 ESX-658978  
MAY 44 ISSUE 1

**CW-23430**  
DICATOR AND CONTROL UNIT.

**CW-23431 QJB**  
TRAINING CONTROL UNIT:  
CONSISTS OF BASE PLATE ON WHICH IS MOUNTED A COMMUTATOR TRANSMITTER. FOR TRAINING THE PROJECTOR IN AZIMUTH A MOTOR DRIVEN GEAR TRAIN FOR ACTUATING THE COMMUTATOR TRANSMITTER. A CAM ARRANGEMENT WHICH PROVIDES 5° ROTATIONAL CONTROL FOR 4/20/44 D-163459 ESX-658976  
MAY 44 ISSUE 1

**CW-23431**  
AUTOMATIC SEARCH, AND A GEAR TRAIN AND SYNCHRO WHICH, IN COMBINATION WITH THE -50130 TRAINING CONTROL AMPLIFIER AND THE SHIP'S GYRO, PROVIDES MAINTENANCE OF TRUE BEARING. PART OF -23430 CONTROL CONSOLE.

**CW-23432 REA**  
POWER PANEL:  
CONTAINS MAIN POWER SWITCHES, A SMOOTHING FILTER AND THE MAIN FUSES FOR THE EQUIPMENT.  
4/24/44 D-169184  
FEB. 45

**CW-23433 REA**  
MONITOR PANEL:  
CONTAINS METERING SWITCH MOUNTED ON PANEL. JACKS FOR MONITORING OUTPUT OF RECEIVER, ALARM SIGNALS. OUTPUT METER SWITCH, & A JACK WHICH ALLOWS METER TO BE PLUGGED INTO TUBE CURRENT METER CIRCUIT FOR FACILITATING. ADJUSTMENTS  
4/24/44 D-169188  
FEB. 45

**CW-23433**  
MADE IN REAR OF METER PANEL.

**CW-23434 REA**  
AUTOMATIC TUNING CONTROL UNIT:  
4/24/44  
MAY 44

**CRM-23435 TOB-2**  
CONTROL UNIT:  
INCLUDES A DUAL RHEOSTAT (585 AND 378 OHMS) FOR CONTROLLING THE HIGH VOLTAGE GENERATOR AND ALTERNATOR FIELDS RESPECTIVELY (NAVY TYPE CG-211137 MOTOR GENERATOR UNIT). FRONT PANEL INCLUDES A 0 TO 1.5 KR HETER AND EQUIPMENT "ON-OFF"  
4/24/44 (CRM)ET-8019 KS-269  
AUG. 44 SUB 0

**CRM-23435**  
SWITCH.

**CANG-23436 GEN. USE**  
RECEIVER TRANSFER PANEL:  
CONTAINS A TOTAL OF 10 JACKS IN ONE SECTION.

5/19/44 A-130  
AUG. 44 ALT 0

**CANG-23437 GEN. USE**  
TRANSMITTER TRANSFER PANEL:  
CONTAINS A TOTAL OF 10 RECEPTACLES IN ONE SECTION.

5/19/44 A-132  
AUG. 44 ALT 0

**CAOH-23438 UJ**  
POWER CONTROL UNIT:  
CONSISTS OF MAIN CONTROL PANEL & THE FOLLOWING PROPERLY FUSED SWITCHES. MASTER 115V 60 CYCLES INPUT; OSCILLATOR FILAMENT PLATE; POWER SUPPLY 115V; RECEIVER FILAMENT PLATE; CENTRAL FILAMENT BIAS; SCOPES PLATE, HIGH VOLTAGE; TEST PANEL  
5/27/44 DD-3129-D-2  
DEC. 44

**CAON-23438**  
115V; SYNCHRONIZER 115V; BLINKER MOTOR 115V.

**CAON-23439 UJ**  
SYNCHRONIZER UNIT:  
CONTAINS TRIGGER INPUT SHAPER, DELAY CIRCUIT, AND LIMITER GATE GENERATOR, VIDEO INPUT; COINCIDENCE MIXER; DIFFERENTIAL AMPLIFIER; PUSH PULL CATHODE FOLLOWER OUTPUT WARNING CIRCUIT, BALANCE PHASE CONNECTOR, POWER SUPPLY. REQUIRES  
5/27/44 DD-3286-C-1  
DEC. 44

**CAON-23439**  
115V 60 CYCLES, 1 PHASE SYNCHRONIZES OSCILLATOR WITH MASTER OSCILLATOR PHASE & FREQUENCY. OUTPUT +450V DC AT 150 MA; -105V AT 10 MA, & TWO 6.3 HEATER WINDINGS AT 6, AND 2.5 AMPS., & TWO 5V HEATER WINDINGS AT 3 AMPS EACH.

**CWV-23440 UJ**  
CENTRAL UNIT:  
CONTAINS 2 SJS-UNITS DIVIDER & SELECTOR UNIT. DIVIDER UNIT CONTAINS 6 COUNTERS, SQUARE WAVE GENERATOR, CIRCUITS PROVIDING TIMING MARKERS, & FEEDBACK CIRCUITS PROVIDING VARIABLE TIMING RELATIONS. SELECTOR UNIT CONTAINS GATING CIRCUITS  
5/27/44 DD-5057-E-2  
DEC. 44

**CHY-23440**  
FOR SELECTING DESIRED TIMING PULSES FOR CONTROLLING CRT SWEEP CIRCUITS OUTPUT TRIGGER PULSES & ATTENUATOR DRIVER. PROVIDES CRT SWEEPS TRANSMITTER TRIGGER & CONTROLS BLINKING OF TRANSMITTER. REQUIRES INPUTS OF +250V, 200 MA; 260V 100 MA -105V 5 MA; -50V 50 MA; 115V/60 TO OPERATE 115V RELAY & TO SUPPLY POWER FOR 4 TRANSFORMERS.

DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED
------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------	-----------------

CONFIDENTIAL

NAVSHIPS 900,109

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CAON- 23441 UJ			23447 SG-2S			CRV- 23452 WCA CONVERSION		
SYNCHRONIZER CONTROL UNIT; INDICATES SYNCHRONIZATION OF SYSTEM; ALLOWS ADJUSTMENT OF SYNCHRONIZING UNIT.			POWER CONTROL UNIT: CONTAINS MAGNETIC TRANSFER SWITCH, OUTPUT VOLTMETER, OUTPUT AMMETER, TWO PILOT LAMPS. CONTROLS FOR REMOTE STARTING AND STOPPING OF EACH ENGINE AND CONTROLS FOR TRANSFERRING LOAD FROM ONE -73033 GASOLINE ENGINE GENERATOR SET TO 7/19/44 V-810			AUXILIARY TRAINING CONTROL: PERMITS REMOTE TRAINING CONTROL OF -51075 HYDROPHONE ASSEMBLY FROM A POINT REMOVED FROM THE -23450 MASTER CONTROL UNIT AND WHICH IS LOCATED NEAR THE JP-1 AMPLIFIER.		
5/27/44 AUG. 44		DD-5001-B-1	SEPT. 44		CMP:D-7826 CHGE F	8/5/44 OCT. 44		
CNR- 23442 FOR USE WITH TBW* RE9451A			23447			CGO- 23453 TBX-7.8		
TRANSMITTER CONTROL AND KEYING UNIT: PROVIDES FOR STARTING AND KEYING TRANSMITTER OVER A SINGLE PAIR, OR ONE WIRE AND GROUND. TRANSMITTER STARTS WHEN KEY IS MOMENTARILY CLOSED AND REMAINS ON FOR A DELAYED TIME INTERVAL AFTER LAST KEY IMPULSE IS TRANSMITTED.			ANOTHER.			REMOTE CONTROL UNIT: TO CONTROL TRANSMIT AND RECEIVE FUNCTIONS OF TBX-7 OR 8 AT DISTANCES UP TO ONE MILE OVER ONE PAIR OF FIELD TELEPHONE LINES.		
6/2/44 SEPT. 44		873-A				NXSR 38500 8/15/44 OCT. 44		ESA-10081
ED. KEY LINE RESISTANCE 350C OHMS MAX; OPERATES FROM 115/1/60, 9 WATTS STANDBY, 18 WATTS OPERATING, KEYING SPEED 50 WORDS/MIN. *GENERAL RADIO USE.			CBM- 23448 QBE-4			CG-23453-A TBX-7		
			REMOTE CONTROL UNIT: CONTAINS MANUALLY OPERATED GENERATOR FOR CONTROL OF DYNAMO ELECTRIC AMPLIFIER UNIT THROUGH CONTROL AMPLIFIER. UNIT ALSO INCLUDES CONTROL AMPLIFIER, BEARING AND GYRO REPEATER ASSEMBLY TRAINING START-STOP SWITCH AND OTHER MISCELLANEOUS CONTROLS.			REMOTE CONTROL UNIT: TO CONTROL TRANSMIT AND RECEIVE FUNCTIONS OF TBX-7 AT DISTANCES UP TO ONE MILE OVER ONE PAIR OF FIELD TELEPHONE LINES. SAME AS -23453 EXCEPT BOX AND COVER ARE 1/4" LONGER AND INNER BATTERY MOUNTING IS 1/8" LONGER.		
			7/26/44 SEPT. 44		932D SK-6041 ALT 1	11/9/44 DEC. 44		ML-7767955G1 P-7767955 REV D
			CBM- 23443 QFA-5			CFT- 23454 DBF		
SS SOUND CONTROL UNIT: SAME AS -23386 EXCEPT (1) RED LIGHTING IS PROVIDED FOR RANGE INDICATOR DIAL OF SOUND BEARING REPEATER (2) FULL SCALE VALUE OF RANGE INDICATOR CHANGED FROM 5000 TO 4000 YARDS.			TROLS. SAME AS 23235 EXCEPT (1) HOIST. LOWER SWITCHES ARE OMITTED (2) TRAINING START-STOP SWITCH IS TOGGLE TYPE RATHER THAN MOMENTARY CONTACT (3) SCALE IS BLACK WITH WHITE FIGURES.			REMOTE CONTROL UNIT CONTAINS POWER SWITCH, AVC SWITCH, SENSITIVITY CONTROL, AF GAIN CONTROL, SENSE SWITCH, TUNING CONTROL AND PHONE JACK-ALL ELECTRICALLY OPERATED EXCEPT FOR MAIN TUNING CONTROL WHICH IS A FLEXIBLE CABLE.		
6/6/44 SEPT. 44			GCH- 23449 MK 29 MOD 2			8/24/44 OCT. 44		
			POWER CONTROL UNIT: CONTAINS NECESSARY CONTROL SWITCHES, FUSES, ETC. FOR OPERATION OF EQUIPMENT. INCLUDES FILAMENT TRANSFORMER. SIMILAR TO -23359 EXCEPT (1) BATTLE SHORT SWITCH ADDED (2) VARIAC REMOVED (3) UNUSED METERS REMOVED.			CGP- 23455 NXSR-62297 RE 13A 934-D		
			7/31/44 SEPT. 44			CONTROL CONSOLE USED FOR REMOTE CONTROL OF TYPE CGP-47410 ANTENNA TUNING UNIT FROM OPERATING POSITION NOT OVER 250 FT. AWAY. CONTROL CONNECTION BY MEANS OF ELECTRIC CABLE. CONSISTS OF 4 OPERATING CONTROLS-TUNE-OPERATE SWITCH, "ON-OFF" POWER		
			CAN- 23444 QFA-5			8/29/44 OCT. 44		
SHIP SOUND CONTROL UNIT: CONSISTS OF WELDED STEEL CABINET 23 1/2" WIDE, 19" DEEP AND 55 1/2" HIGH, TO WHICH A CONSOLE CONTAINING A CATHODE RAY TUBE AND INDICATOR RANGE RECORDER IS HINGED. HAS MAINTENANCE, OF TRUE BEARING FEATURE AND EMPLOYS CONTINUOUS ROTATION			PRINCIPLE WITH 3 POSITIONS OF 1,000, 2,000 AND 3,000 YARDS.			CGP- 23455		
6/6/44 AUG. 45		818747 REV D	CRV- 23450 WCA CONVERSION			SWITCH REMOTE READING ANTENNA METER, TOGETHER WITH OPERATING MOTOR & INDICATING SELSYN DEVICES FOR OPERATION ON 115/1/60. ENCLOSED IN METAL CASE SUITABLE FOR LOCATION IN RADIO TRANSMITTER ROOM ON SHIPBOARD.		
			MASTER CONTROL UNIT: SUPPLY: 115/1/60. CONSISTS OF 2 CHASSIS MOUNTED IN A SINGLE RACK. LOWER CHASSIS CONTAINS A RELAY, A PREAMPLIFIER, A RIGHT-LEFT INDICATOR UNIT AN AVC AND VOLUME INDICATING METER AND AN AUDIO UNIT. TOP CHASSIS INCLUDES "RIGHT-LEFT"			8/5/44 OCT. 44		
			CG- 23445 TDZ			CBM 23456 NEA-2b		
REMOTE CHANNEL SELECTOR: FOR SELECTING 1 OF 10 PRESET FREQUENCIES FROM A REMOTE LOCATION. SAME AS -23418 EXCEPT DOES NOT HAVE "MANUAL" POSITION ON THE CHANNEL INDICATOR.			INDICATOR METER, RELATIVE BEARING INDICATOR AND VARIOUS CONTROL SWITCHES.			REMOTE TRAIN UNIT INCLUDES A SYNCHRONOUS GENERATOR THAT DEVELOPS DISPLACEMENT VOLTAGE WHICH WHEN AMPLIFIED CONTROLS THE TRAINING MOTOR IN A HOIST TRAIN UNIT. SIMILAR TO -23370 EXCEPT THAT THE LUCITE WINDOW HAS BEEN REPLACED BY A MASK AND NAMEPLATES MARKED		
6/12/44 FEB. 45		4MC3781 REV 5	CRV- 23451 WCA CONVERSION			8/30/44 OCT. 44		SK-6151 REV D
			OPERATOR'S CONTROL UNIT: CONTROLS TALKBACK SYSTEM EXCEPT WHEN TYPE -23450 MASTER CONTROL UNIT IS USED. OPERATOR'S HEADPHONE AND MICROPHONE PLUG INTO THIS UNIT. PRESS-TO-TALK SWITCH ENABLES OPERATOR TO COMMUNICATE WITH CORNING TOWER.			"ERROR WARNING" AND "DIAL ILLUMINATION" HAVE BEEN REMOVED.		
			8/5/44 OCT. 44			CBM 23456		
			CM- 23446 PM					
TELETYPEWRITER REPEATER UNIT:								
7/6/44 SEPT. 44		CM:X-66534-C						



NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
-----------------------	--------------------	-------------------------------	-----------------------	--------------------	-------------------------------	-----------------------	--------------------	-------------------------------

**CBM 23457 QBE-3B**  
 REMOTE TRAIN UNIT  
 INCLUDES A SYNCHRONOUS GENERATOR THAT DEVELOPS DISPLACEMENT VOLTAGE WHICH WHEN AMPLIFIED CONTROLS THE TRAINING MOTOR IN A HOIST TRAIN UNIT. SIMILAR TO -23370-A EXCEPT THAT THE LUCITE WINDOW HAS BEEN REPLACED BY A MASK AND NAMEPLATES MARKED  
 8/30/44 SK-6152  
 OCT. 44 REV 0

**CBM-23457**  
 "ERROR WARNING" AND "DIAL ILLUMINATION" HAVE BEEN REMOVED.

**CBM-23458 QGC.QGD**  
 POWER CONTROL UNIT:  
 INCLUDES EQUIPMENT START-STOP SWITCH, TRAINING POWER SUPPLY, START-STOP SWITCH, HOIST-LOWER SWITCH, AND EIGHT INDICATING LAMPS. SIMILAR TO TYPE CBM-23412 EXCEPT FOR DIFFERENCES IN THE INTERNAL CONNECTIONS OF START-STOP CIRCUITS AND  
 8/31/44 953 60382  
 OCT. 44 REV 0

**CBM-23458**  
 TERMINAL PANEL CHANGES.

**CBM-23459 QGC.QGD**  
 CONTROL CONSOLE:  
 INCLUDES CRO ASSEMBLY, -55112 RECORDER, -23371-A KEYING UNIT, AND TRAINING CONTROL UNIT CONSISTING OF 3 SYNCHRONOUS GENERATORS. SIMILAR TO CBM-23414 EXCEPT THERE IS NO SLAVE KEYING CONTROL AND MODIFICATIONS HAVE BEEN MADE IN TERMINAL  
 8/31/44 954 60382  
 OCT. 44 REV 0

**CBM-23459**  
 PANEL.

**CRY 23460 JT**  
 MASTER CONTROL UNIT  
 SUPPLY: 115/1/60. RACK CONTAINING 2 CHASSIS. LOWER CHASSIS CONTAINS A RELAY, PREAMPLIFIER, A RIGHT-LEFT INDICATOR UNIT, AN AVC AND VOLUME INDICATING METER AND AUDIO UNIT. TOP CHASSIS INCLUDES RIGHT-LEFT INDICATOR METER, RELATIVE  
 9/5/44  
 OCT. 44

**CRY23460**  
 BEARING INDICATOR & VARIOUS CONTROL SWITCHES. SIMILAR TO -23450 BUT NOT INTERCHANGEABLE.

**CRY 23461 JT**  
 TALK-BACK CONTROL UNIT:  
 CONTROLS TALKBACK SYSTEM EXCEPT WHEN TYPE -23460 MASTER CONTROL UNIT IS USED. OPERATOR'S HEADPHONES & MICROPHONE PLUG INTO THIS UNIT. PRESS-TO-TALK SWITCH ENABLES OPERATOR TO COMMUNICATE WITH CONNING TOWER. SIMILAR TO -23451 BUT NOT  
 9/5/44  
 OCT. 44

**CRY23461**  
 INTERCHANGEABLE.

**CRY 23462 JT**  
 AUXILIARY TRAINING CONTROL  
 PERMITS REMOTE TRAINING OF THE TYPE -51075 HYDROPHONE ASSEMBLY FROM A POINT REMOVED FROM THE TYPE -23450 MASTER CONTROL UNIT AND WHICH IS LOCATED NEAR THE JP-1 AMPLIFIER. SIMILAR TO -23452 BUT NOT INTERCHANGEABLE.  
 9/5/44  
 OCT. 44

**CANG 23463 HXsr-71316 RE 25F 22T**  
 TRANSFER PANEL  
 ALL STEEL BOX CONTAINING 30 TYPE -49008 TELEPHONE JACKS WIRED TO TERMINAL STRIPS.

9/14/44 CANG:A-161  
 OCT. 44

**CFT-23464 TDM-2.-3.-4**  
 SELECTOR CONTROL UNIT  
 CONSISTS OF POWER SUPPLY, MASTER CONTROL SECTION, AND CHANNEL CONTROL SECTION. INPUT TO POWER SUPPLY 115 VOLTS, SINGLE PHASE, 50-60 CYCLES. OUTPUT 48 VOLTS DC. A CHANNEL CONTROL SECTION IS PROVIDED FOR EACH BAND TRANSMITTER. THE MASTER  
 9/14/44 FT-103B RC-1145-2A  
 OCT. 44 REV 0

**CFT-23464**  
 CONTROL SECTION SELECTS THE CHANNEL CONTROL SECTION DESIRED AND THIS SECTION IN TURN SELECTS TYPE OF OPERATION. (A1 OR A3)

**CFT-23465 TDM-2.-3.-4**  
 OPERATOR'S CONTROL UNIT  
 CONSISTS OF TELEPHONE TYPE DIAL, ON-OFF SWITCH, AUDIO TRANSFORMER, INDICATOR AND RELAY. THIS UNIT IS CONNECTED TO -23464 BY MEANS OF LINES TO CONTROL THE BAND TRANSMITTER FROM A REMOTE POSITION. CONTAINS TERMINALS FOR 3 KEYS, MICRO-  
 9/14/44 FT-104B RC-1146-3A  
 OCT. 44 REV 0

**CFT-23465**  
 PHONE, AND PUSH TO TALK SWITCH.

**CFT-23466 TDM-2.-3.-4**  
 KEYING UNIT  
 PERMITS KEYING AT A BAND TRANSMITTER WHEN A KEYSER IS USED WHICH SUPPLIES A KEYING VOLTAGE WITH POSITIVE SIDE GROUND. INPUT: 115 VOLTS, 1 PHASE 50-60 CYCLES.

9/14/44 FT-102A RC-4644-14  
 OCT. 44 REV 0

**CFW-23467 GEN. USE**  
 RADIOPHONE TRANSFER PANEL  
 CONTAINS A TOTAL OF 10 RECEPTACLES IN ONE SECTION.

9/18/44 US-84166  
 OCT. 44

**CBM-23468 QBE-1a**  
 REMOTE TRAINING CONTROL UNIT  
 CONSISTS MANUALLY OPERATED SYNCHRO GENERATOR FOR CONTROL OF DYNAMO ELECTRIC AMPLIFIER UNIT THROUGH CONTROL AMPLIFIER. INCLUDES CONTROL AMPLIFIER BEARING AND GYRO REPEATER ASSEMBLY TRAINING START-STOP SWITCH AND OTHER MICELLANEOUS CON-  
 9/25/44 932E SK-6041  
 OCT. 44 ALT 2

**CBM-23468**  
 TROLS. SIMILAR TO CBM-23448 EXCEPT (1) HAS NO TIME DELAY RELAY. (2) INCLUDES LEFT-RIGHT TRAINING LIMIT LIGHTS; AND AUTOTRANSFORMER; AND (3) USES A TYPE 5G SYNCHRONOUS GENERATOR INSTEAD OF TYPE 5CT.

**CJF-23469 TDM-1**  
 CIRCUIT SELECTOR  
 CONSISTS OF RELAYS, MOTORS, CODE DISCS., SWITCHES, AND ASSOCIATED EQUIPMENT FOR SELECTING AND COMPLETING THE CIRCUITS FOR THE TRANSMISSION OF THE STATION CALL LETTERS AND MEASURING SIGNALS. INPUT: 115/1/60, 30 WATTS, AND 12V DC, 6 WATTS.  
 9/27/44 AY-40178 X-P-47028  
 MAR. 45

**CJF-23469**  
 SAME AS CJF-23323 EXCEPT THAT SWITCH S634 (REFERENCE FREQUENCY) HAS BEEN CHANGED FROM DPDT TO SPST AND CHANGES IN CABLE WIRING.

**CFT-23470 TDM-4**  
 LOCAL CONTROL SWITCH PANEL:  
 CONSISTS OF A FOUR POSITION ROTARY TYPE SWITCH, A HANDSET WITH MOUNTING BRACKET, AND A TERMINAL STRIP MOUNTED ON A PANEL. THE SWITCH PERMITS THE LOCAL MICROPHONE TO BE SWITCHED FROM THE MODULATOR IN ONE BANK OF UNITS TO THE MODULATOR IN THE  
 10/14/44 RC-5873-12A  
 DEC. 44 REV 0

**CFT-23470**  
 OTHER BANK, OR TO BOTH MODULATOR, OR TO BE DISCONNECTED TO PERMIT USE OF REMOTE MICROPHONES.

DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER
------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------



NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
-----------------------	--------------------	-------------------------------	-----------------------	--------------------	-------------------------------	-----------------------	--------------------	-------------------------------

CRV-23485  
OF FIELD WIRE WHICH TERMINATES AT NAVY TYPE -50243, HAS BUZZ SWITCH FOR SIGNALING OTHER END. SUBMERSION PROOF, PORTABLE.

CW-23486 CW-50250  
SIGNALLING APPLIQUE UNIT (20 CYCLES): THIS UNIT IN CONJUNCTION WITH NAVY TYPE CW-35039 RINGER OSCILLATOR FUNCTIONS TO SEND 20 CYCLE SIGNALS TOWARD THE TERMINAL UNDER CONTROL OF THE RINGER OSCILLATOR OR TO RECEIVE 20 CYCLE SIGNALS FROM THE TERMINAL TO CONTROL 3/6/45 563602AY-2  
MAR. 45 LIST I

CW-23486  
THE 1000 CYCLE RINGER OSCILLATOR. INPUT 70 TO 110 VOLTS, 20 CYCLES.

-23487 GEN. USE RE 23F 140A  
CONTROL UNIT:  
FOR USE WITH 4-CHANNEL AUDIO DISTRIBUTION SYSTEMS. DUAL CONTROL PANEL. FOR STATION MOUNTING. SAME AS -23488 EXCEPT SINGLE VERSUS DUAL.

3/9/45  
MAR. 45

-23488 GEN. USE RE 23F 140A  
CONTROL UNIT:  
FOR 4-CHANNEL AUDIO DISTRIBUTION SYSTEMS. SINGLE CONTROL PANEL. FOR STATION MOUNTING. SAME AS -23487 EXCEPT DUAL VERSUS SINGLE.

3/9/45  
MAR. 45

-23489 GEN. USE RE 23F 140A  
CONTROL UNIT:  
FOR 4-CHANNEL AUDIO DISTRIBUTION SYSTEMS. SINGLE CONTROL PANEL. FOR BULKHEAD MOUNTING. SAME AS -23488 EXCEPT FOR MOUNTING.

3/9/45  
MAR. 45

CJ- 23490 \*SEE BELOW  
RANGE - RATE UNIT:  
INCLUDES A 60 CYCLE SYNCHRONOUS MOTOR, 4 RPM, 10 WATTS WHICH DRIVES A VARIABLE SPEED WHEEL & DISC ARRANGEMENT. SHAFT ON WHICH THE WHEEL IS MOUNTED IS CONNECTED BY MEANS OF A FLEXIBLE SHAFT TO RANGE \*FOR USE WITH QFC  
3/26/45 N-55-20  
APR. 45

CJ- 23490  
DIAL ON THE QFC PANEL. SPEED OF ROTATION DETERMINED BY POSITION OF WHEEL ON DISC CONTROLLED BY A KNOB CALIBRATED IN KNOTS. MAKES AVAILABLE RANGE RATES OF ZERO TO 30 KNOTS CLOSING AND ZERO TO 20 KNOTS OPENING. KEYING PULSE RELAY AND ADDED TERMINAL STRIPS ARE SUSPENDED FROM UNIT TO ALLOW SIMPLE INSTALLATION.

COL-23491 ROZ  
AUTOMATIC TUNING UNIT:  
USES A MOTOR AND SELECTOR SWITCH SO THAT UNITS DRIVE SHAFT CAN BE TURNED TO ANY ONE OF 10 POSSIBLE PRE-SET POSITIONS BY SETTING SELECTOR SWITCH TO CORRESPONDING TAP. LOCAL CHANNEL SELECTOR SWITCH MARKED I THROUGH 10 INCLUSIVE AND IN-3/30/45 CNA:SA-2911 J 133  
APR. 45

COL-23491  
DIAL ON THIS UNIT MARKED I THROUGH 10 INCLUSIVE. CORRESPONDING TO 10 PRE-SET FREQUENCY CHANNELS AND ALSO A FREQUENCY CALIBRATION DIAL MARKED FROM 200 TO 400 MC. TERMINAL STRIP IS PROVIDED SO THAT A REMOTE SELECTOR SWITCH MAY BE USED.

CNA-23492 ROZ  
REMOTE CHANNEL SELECTOR:  
UNIT CONTAINS A CHANNEL SELECTOR SWITCH, A PHONE OUTPUT JACK A PHONE AUDIO LEVEL CONTROL & A SILENCER DISABLING SWITCH. WHEN USED WITH ROC IT PERMITS OPERATION OF RECEIVERS FROM A SINGLE REMOTE POINT.

3/31/45 BM:139 J 132  
APR. 45

CBM-23493 WCA  
TRAINING REMOTE CONTROL UNIT:  
INCLUDES HAND LEVER OPERATED SWITCH AND RESISTORS FOR CONTROL OF THE FIELD OF MOTOR-GENERATOR CBP-21356, THE PROJECTOR AND GYRO REPEATER ASSEMBLY. ALSO INCLUDES LOUDSPEAKER OF RANGING OR LISTENING SYSTEM. HAS 2 INDICES ON PRO-4/4/45 757RJ MOD  
MAY 45

CBM-23493  
JECTOR BEARING DISC, ONE FOR QC AND ONE FOR JK, 180 DEGREES APART BUT QC INDEX IS MASKED. SAME AS -23279 EXCEPT INCLUDES SHUNT RESISTORS AND 4 TRAINING SPEED RESISTORS ARE REPLACED.

CBM-23494 WCA-2  
TRAINING REMOTE CONTROL UNIT:  
INCLUDES LOUDSPEAKER OF RANGING OR LISTENING SYSTEM. HAS 2 INDICES ON PROJECTOR TRAINING DISC; ONE FOR QC AND ONE FOR JK, 180 DEGREES APART. SAME AS -23382 EXCEPT A SHUNT RESISTOR HAS BEEN ADDED AND 4/4/45 757AAJ MOD  
MAY 45

CBM-23494  
4 TRAINING SPEED RESISTORS HAVE BEEN REPLACED BY OTHERS OF DIFFERENT VALUES.

CNA-23495 NXSP-86132  
CONTROL UNIT  
POWER REQUIRED: 0.6 AMPS. AT 6.3V AC; 12 MA AT 190V DC. A RACK MOUNTING UNIT USING ONE DUAL-TRIODE TUBE CONNECTED IN A "SQUALEH" OR SILENCER CIRCUIT OPERATING FROM NEGATIVE AVC VOLTAGE DEVELOPED BY ASSOCIATED RECEIVER. & ACTUATING RE-4/12/45 J149  
MAY 45 REV 0

CNA-23495  
LAY WHICH CONNECTS RE- CNA-23495  
NOTE LOUDSPEAKER AND INDICATOR LIGHT THROUGH 5-PRONG OUTPUT SOCKET. SPEAKER CIRCUIT INPUT IMPEDANCE 5000 OHMS. OUTPUT IMPEDANCE 2.86 OHM VOLUME CONTROL. HAS SPEAKER CIRCUIT PANEL SWITCH FOR DISABLING SPEAKER CONTROL ACTION. CONTROL VOLTAGE THRESHOLD IS ADJUSTABLE BY PANEL CONTROL. 4 WIRE CABLE & PLUG SUPPLIED FOR INPUT POWER.

23496 TOZ,ROZ,MAR RE 24F239  
REMOTE CONTROL-INDICATOR 16C24(RE) UNIT: CAN BE USED TO CONTROL ONE TOZ AND TWO RECEIVERS RDR OR ROZ OR AN MAR WITH TWO RDR OR ROZ OR ONE OF EACH. HAS FACILITIES FOR TWO HEADSETS, INCLUDES A MUTING SWITCH FOR MUTING ONE OF TWO LOUDSPEAKER AMPLIFIERS. OPERATES WITH 4/5/45  
MAY 45

23486  
NAVY TYPE -23497 SELECTOR CONTROL UNIT FOR RECEIVER CONTROL.

QCC-23497 ROZ, MAR, RDR 16C11 (RE)  
SELECTOR CONTROL UNIT:  
PROVIDES RELAY CIRCUITS FOR ADAPTING THE MODEL ROZ FOR CONTROL BY EITHER NAVY TYPE -23445 OR -23496, USED WITH NAVY TYPE -20409 RECTIFIER POWER UNIT IN THE SAME MANNER FOR MODELS MAR AND RDR.

4/5/45  
MAY 45

RW-23498 ACCESSORY FOR TBA-TO  
KEYER COUPLING UNIT:  
A FREQUENCY SHIFT COUPLER FOR COUPLING A MODEL TBA-10 TRANSMITTER TO THE PRESS WIRELESS FS12A FREQUENCY SHIFT KEYER. FREQUENCY RANGE: 2 TO 5 MC.

4/7/45 RW50F5048  
MAY 45

RO-23499 GEN. SONAR USE  
NOISE LEVEL CONTROL UNIT:  
DISTRIBUTES AND CONTROLS SOUND FOR TRAINING IN THE USE OF THE NOISE LEVEL MONITOR. RECEIVES AUXILIARY NOISE FROM ONE PLAYBACK AND BACKGROUND NOISE FROM ANOTHER PLAYBACK. TWO SELECTOR SWITCHES ARE SET TO AGREE WITH THE TYPE OF PICKUP 4/23/45 21745-J  
MAY 45 SHEET I

RO-23499  
IN USE ON THE ASSOCIATED PLAYBACK UNIT. INCLUDES 8 ATTENUATORS.

CANG-23500 GEN RADIO USE 16R28(RE)  
RADIOPHONE UNIT  
FOR CONTROL AND OPERATION OF VOICE TRANSMITTER ON STANDARD 6 WIRE RADIO REMOTE CONTROL CIRCUITS. ELECTRICALLY SIMILAR TO AND SUPERSEDES TYPE -23423.

4/21/45  
MAY 45

DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER
------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
-----------------------	--------------------	-------------------------------	-----------------------	--------------------	-------------------------------	-----------------------	--------------------	-------------------------------

RA-23501 \*SEE BELOW  
 AUTOMATIC TRAINING CONTROL  
 UNIT: SUPPLY: 115/1/60. INCLUDES 5G SYNCHRO DRIVEN BY THE AC MOTOR THROUGH A GEAR TRAIN TO GIVE 2 ARCS OF ROTATION OF SYNCHRO. SYNCHRO IS DRIVEN IN RECIPROCATING MOTION WITH ARC OF ROTATION 30°  
 \*NECESSARY FOR QCU  
 4/25/45  
 MAY 45

CDE-23506 YR  
 REMOTE CONTROL UNIT  
 PROVIDES TERMINATIONS FOR MICROPHONE, TELEPHONE LINE AND SPEECH INPUT AMPLIFIER, AS WELL AS REMOTE CONTROL FOR EQUIPMENT. IT CONSISTS OF A POWER SUPPLY WHICH PROVIDES APPROX. 100V DC FROM A SELENIUM RECTIFIER. HAS A TWO POSITION  
 5/12/45  
 MAY 45

RA-23501  
 AND 120° AT 2/3 RPM. ENCLOSED IN METAL CABINET FOR BULKHEAD MTC.

CDE-23506  
 NON-LOCKING LEVER SWITCH KEY TO CONTROL EQUIPMENT. ALSO INCLUDES 3 DC RELAYS.  
 INPUT 110/1/60.

CAIU-23502 QDA  
 VOLTAGE REGULATOR CONTROL  
 UNIT: CONTAINS CONTROL EQUIPMENT FOR TYPE CAIU-302319 TILT CONTROL VOLTAGE REGULATOR AND TYPE CAIU-302320 TRANSMITTER-RECEIVER VOLTAGE REGULATOR. CONTAINS SWITCHES, LINE CONTACTOR, RELAY, FUSES, TERMINAL STRIPS AND ASSOCIATED WIRING.  
 4/28/45 KS-15168  
 MAY 45

CW-23507 UN  
 SEND AND RECEIVE TERMINALS - HI CARRIER AND VOICE BAY: CONSISTS OF -23295 HI CARRIER TELEPHONE TERMINAL PANEL (EAST), -23296 HI CARRIER TERMINAL PANEL (WEST), -23297 SENDING LINE TERMINAL PANEL, -23300 RECEIVING LINE TERMINAL PANEL, -23303 RECEIVING VOICE CHANNEL  
 5/18/45 X-66016K CW:X-66016K-1  
 MAY 45 LISTS 1

CAIU-23503 QDA  
 POWER CONTROL UNIT  
 MOUNTS IN TYPE CW-10535 TRANSMITTER-RECEIVER POWER CABINET. CONTAINS CONTROLS AND INDICATING INSTRUMENTS FOR MEASURING AND CONTROLLING THE OUTPUT OF TYPE CAIU-20423 RECTIFIER POWER UNIT AND CAIU-20422 RECTIFIER POWER UNIT. INCLUDES  
 4/28/45 KS-15159  
 MAY 45

CW-23507  
 NEL TERMINAL PANEL, -50101 AUDIO FREQUENCY AMPLIFIER, AND -50112 SENDING VOICE CHANNEL TERMINAL PANEL.

CAIU-23503  
 VOLTMETERS, SWITCHES, RELAYS, FUSES, TERMINAL STRIPS AND ASSOCIATED WIRING. ALSO HAS MOUNTED IN IT FUSES ASSOCIATED WITH UNITS IN THE TYPE CAIU-20424 TRANSMITTER-RECEIVER POWER SUPPLY AS WELL AS FUSES FOR PRIMARY OF HEATER AND PLATE SUPPLY TO CRO.

CW-23508 UN  
 TWO SEND AND TWO RECEIVE VOICE TERMINAL BAY. CONSISTS OF -23297 SENDING LINE TERMINAL PANEL, -23300 RECEIVING LINE TERMINAL PANEL, -23303 RECEIVING VOICE CHANNEL TERMINAL PANEL, -50101 AUDIO FREQUENCY AMPLIFIER, AND -50112 SENDING VOICE CHANNEL TERMINAL  
 5/18/45 X-66016M CW:X-66016M-1  
 MAY 45 LIST 1

-23504 GEN. USE RE 23F 242  
 DISTRIBUTION & TEST PANEL FOR FOUR CHANNEL AUDIO DISTRIBUTION SYSTEMS. ACCOMMODATES 1 FEEDER AND 4 BRANCH LINES.

CW-23508  
 PANEL.

5/5/45  
 MAY 45

CANY-23505 D80 RE 13A 1073A  
 CONTROL UNIT  
 CONNECTS TO TYPE CANY-50260 GONIOMETER & COUPLING UNIT BY MEANS OF 50 FT. MULTI-CONDUCTOR CABLE. OPERATOR MAY TAKE OR GIVE CONTROL BY DEPRESSING "TRANSFER CONTROL" SWITCH. INDICATORS ARE: RELATIVE AZIMUTH, FREQUENCY BAND, FREQUENCY.  
 5/7/45  
 MAY 45

CANY-23505  
 CATHODE RAY OSCILLOSCOPE AND CONTROL LIGHT. CONTROLS: BAND SWITCH, FREQUENCY CRANK, TRANSFER-CONTROL SWITCH, CW-VOICE SWITCH, POWER ON-OFF SWITCH, DIAL LIGHT RHEOSTAT, RECEIVER GAIN CONTROL, AUDIO VOLUME CONTROL, LEFT-RIGHT SWITCH FOR OPERATING GONIOMETER MANUALLY & FUNCTION SWITCH FOR SELECTING 1 OF 4 POSSIBLE METHODS OF RECEPTION.

DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED ISSUED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER
------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------	-----------------	------	----------------------------	-------------------------------