

Class 55—Indicators and Recorders

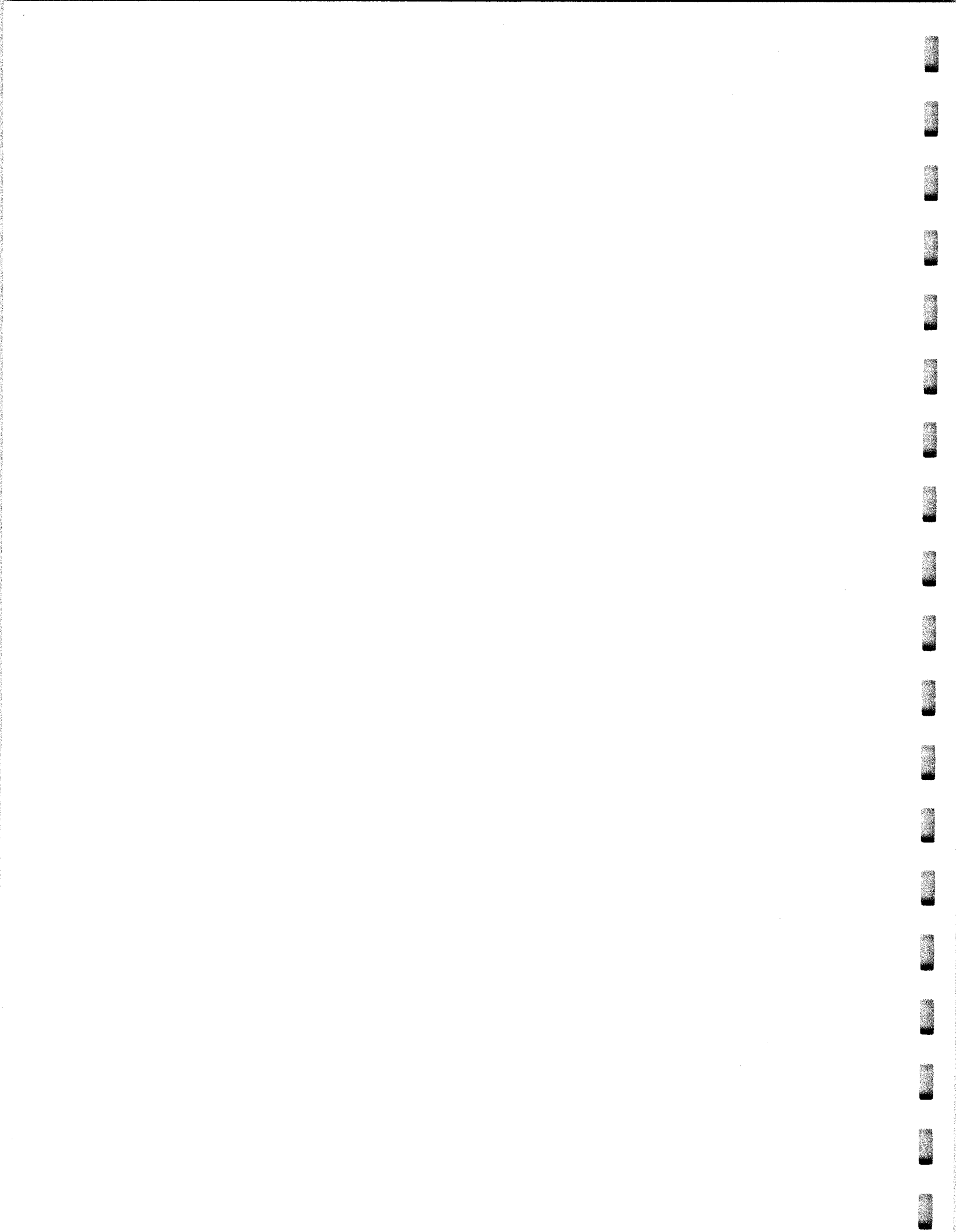
CLASS 55

INDICATORS & RECORDERS

INCLUDES: INDICATORS

- (A) VISUAL (CATHODE RAY)
- (B) DEPTH (SOUNDING)
- (C) RANGE
- (D) ALTITUDE

RECORDERS (DEPTH, RANGE, ALTITUDE, HUMIDITY, TEMPERATURE)



Class 55—Indicators and Recorders

3.55-1

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
55000		RW 55F 178	CBM 55008 NM		55RE55F1052A	CBM 55015-A	QBA & QBA-1	
DEPTH INDICATOR WITH MASTER GOVERNOR. RANGE 30-400 FATHOMS. (REDESIGN OF SE-3431).			REPEATER DEPTH INDICATOR			INDICATOR-RANGE MODIFIED BY NEW RED LIGHT TRANSFORMER AND KEYING CIRCUITS.		
5/25/32 NOV. 41			2/1/34 NOV. 41			1/17/39 NOV. 41		
RW-55001 NC		RW 55F 182	CBM 55009 NM-1		55RE55F1050A	CBM 55016 NM-1a		55RE55F1056A
DEPTH INDICATOR COMBINED DRIVING, RECEIVING AND INDICATING UNIT FOR MODEL NG ECHO SOUNDING SYSTEM.			DEPTH INDICATOR RECORDER			INDICATOR-RECORDER		
8/11/32 NOV. 41			3/21/34 NOV. 41			12/20/34 554-C NOV. 41		
55002	GENERAL USE	RE 55A 132	CBM 55010 QC-2		55RE55F1066A	CRV 55017 NM-3 & QC-3		10RE 55J1068A
ECHO RANGING STOP-WATCH.			RANGE INDICATOR			INDICATOR - RANGE		
10/9/33 NOV. 41			7/7/34 609 NOV. 41			5/8/35 NOV. 41		K-823551
RA-55003 NC-1		RA 55F 222	CBM 55011 NM-2		55RE55F1065A	CRV 55017-A NM-3 & QC-3		10RE55J1068A
DEPTH INDICATOR COMBINED DRIVING, AMPLIFIER AND POWER UNIT.			DEPTH INDICATOR-RECORDER			INDICATOR - DEPTH SAME AS CRV-55017 EXCEPT DIAL MARKING.		
10/31/33 NOV. 41			7/7/34 NOV. 41			5/8/35 NOV. 41		K-823551
CBM 55004 QB		55RE 55F1055A	RA-55012 XQB		RA 55F 225	CRV-55018 NM-3		10RE55J1069A
DEPTH AND RANGE INDICATOR			INDICATOR-DRIVER-AMPLIFIER.			RECORDER - DEPTH		
2/1/34 NOV. 41			7/31/34 NOV. 41			5/8/35 NOV. 41		K-823553
CBM 55005 QC		55RE55F1053	CBM 55013 QC-1		55RE55F1059A	CBM 55019 QC-4		55RE55F1072A
MASTER RANGE INDICATOR			INDICATOR-RANGE			RANGE INDICATOR		
2/1/34 552 NOV. 41			11/28/34 552C NOV. 41			12/10/35 600-C NOV. 41		
CBM 55006 QC		55RE55F1054	CBM 55014 NC-2		55RE55F1057A	CBM 55019-A QCC-1, QCD-1		
REPEATER RANGE INDICATOR			INDICATOR - DEPTH			INDICATOR, RANGE EX-55019 WITH NEW RED LIGHT TRANSFORMER AND MODIFIED KEYING CIRCUIT.		
2/1/34 555 NOV. 41			12/14/34 600 NOV. 41			1/17/39 600 E MOD. NOV. 41		
CBM 55007 NM		55RE55F1051	CBM 55015 QB-1		55RE55F1058A	CBM 55020 NM-4		55RE55F1072A
MASTER DEPTH INDICATOR AND RECORDER.			INDICATOR - RANGE			DEPTH INDICATOR		
2/1/34 NOV. 41			12/14/34 600A NOV. 41			12/10/35 600-0 NOV. 41		
			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

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CBM 55021	NM-5	55RE55F1070A	CBM 55028-A	QC-1a, QC-1b	55RE55F1093A	CBM 55030	NM-8	55RE55J1091A
DEPTH INDICATOR (NO RECORDER)			RANGE INDICATOR MODIFIED -55028 BY REPLACEMENT OF RED LIGHT TRANSFORMER & RECONNECTION OF KEYING SYSTEM.			DEPTH INDICATOR 0-200, 0-2000 FATHOMS.		
2/26/36 704			2/13/39 SK-3936			11/22/37 722C		
NOV. 41			NOV. 41			NOV. 41		
CBM 55022	* SEE BELOW	55RE55F1070A	CBM 55029	QC-6, QC-6a	55RE55J1089A	CBM 55031	QC-7	55RE55F1090A
RANGE INDICATOR (SIMILAR TO CBM 55021 EXCEPT DIAL CALIBRATED IN YARDS AND HAS KEYING RELAY). INPUT 440 VOLT, AC.			RANGE INDICATOR RANGE 1000 & 5000 YARDS.			RANGE INDICATOR 2 RANGES 0 TO 1000 & 0 TO 5000 YARDS.		
* QC-6 & QC-6b.			11/17/37 722 E			11/22/37 722 D		
2/26/36 609A			NOV. 41			NOV. 41		
NOV. 41								
CBM 55023	QC-5a	55RE55F1071A	CBM 55029-A	QCB & QCB-1	55RE55J1092A	CBM 55031-A	QCH	55RE55J1104A
RANGE INDICATOR SAME AS 55022 EXCEPT INPUT 220 VOLTS, A.C.			INDICATOR 2 SPEED TYPE SIMILAR TO -55029 EXCEPT OMISSION OF REFERENCE TO "RANGE" ENGRAVING OF TERMINAL PANELS AND CHANGES IN SUB-ITEMS AS REQUIRED BY THE SPECIFICATIONS; A PART OF TYPE -78070 INDICATOR AMPLIFIER CONTROL UNIT.			INDICATOR SIMILAR TO -55031 EXCEPT FOR TERMINAL ENGRAVING AND MINOR MECHANICAL CHANGES.		
2/26/36 609B			6/7/32 722 K	SK-3781B		8/9/38 722 H	SK-3805A	
NOV. 41			NOV. 41			NOV. 41		
CBM 55024	NM-6, 6a & 7	55RE55F1077A	CBM 55029-B	QCJ & QCK	55RE55J1106A	CBM 55031-B	QCH-1	55RE 55J 1116
DEPTH INDICATOR 0-200, 0-2000 FATHOMS.			INDICATOR SIMILAR TO CBM-55029A EXCEPT FOR THE INCLUSION OF A MOTOR-GENERATOR START-STOP SWITCH AND OTHER MINOR CHANGES.			INDICATOR SIMILAR TO -55031A EXCEPT SLIGHT MODIFICATIONS TO THE OVERRUNNING CLUTCH.		
4/23/36 722			11/1/38 722 J	SK-3781B ALT 0		8/26/39 722 R	CBM:6898 ALT 0	
NOV. 41			NOV. 41			DEC. 41		
CBM 55025	NM-5a	55RE55F1084A	CBM 55029-C	QCJ-1, QCK-1	55RE55J1113A	CBM 55032	NH-9	55RE55J1085A
DEPTH INDICATOR 0-200, 0-2000 FATHOMS.			INDICATOR 2 SPEED TYPE: 0 TO 1000 YARDS AND 0 TO 5000 YARDS. SIMILAR TO NAVY TYPE -55029B EXCEPT FOR SLIGHT CHANGE IN OVERRUNNING CLUTCH.			DEPTH INDICATOR SAME AS 55030 EXCEPT FOR RACK MOUNTING.		
11/11/36 722A			1/19/40 722S	6913 ALT 0		12/21/37 755F		
NOV. 41			NOV. 41			NOV. 41		
CBM 55026	NM-4a	55RE55F1075A	CBM 55029-D	QCL-1	55RE55J1107A	CBM 55033	NM-10	55RE55J1100A
DEPTH INDICATOR SIMILAR TO CBM-55020 EXCEPT NO WHITE LIGHT; NEON LAMP USED FOR BOTH SHOAL & DEEP.			INDICATOR 2 SPEED TYPE: 0 TO 1000 YARDS & 0 TO 5000 YARDS; SIMILAR TO NAVY TYPE -55029C EXCEPT INCLUDES A MODULATOR ON-OFF SWITCH, THE ADDITION OF ZERO POSITION CONTROL ON THE FRONT PANEL AND CHANGE IN TERMINAL ENGRAVING.			DEPTH INDICATOR 2 SPEED 0 TO 200 AND 0 TO 2000 FATHOMS. SAME AS TYPE -55032 EXCEPT FOR ADDITION OF ZERO CONTROL ADJUSTMENT KNOB ON FRONT PANEL, TERMINAL PANEL ENGRAVING, CASE & MINOR MECHANICAL CHANGES.		
12/28/36 600-C			1/19/40 722AA			8/9/38 722 G	SK-3993 A	
NOV. 41			NOV. 41			NOV. 41		
CBM 55027	NM-7	55RE55F1079A	CBM 55029-E	QCJ-3, QCL-2	55RE55J1118A	CBM 55033-A	* SEE BELOW	55RE55J1108A
DEPTH RECORDER - (SURVEY BOATS).			INDICATOR 2 SPEED TYPE: 0 TO 1000 YARDS & 0 TO 5000 YARDS; SIMILAR TO NAVY TYPE -55029D EXCEPT FOR CHANGE IN WIRING, TYPE OF MODULATOR SWITCH AND ADDITION OF PILOT LIGHT TO INDICATE MODULATOR POWER. INPUT 115/1/60.			DEPTH INDICATOR SIMILAR TO -55033 EXCEPT MINOR CHANGES IN COMPONENTS.		
12/28/36 741			1/19/40 722 AB			* NM-13 & NM-13a.		
NOV. 41			AUG. 42			5/22/39 722 P	6888 ALT 0	
						NOV. 41	6889 ALT 0	
CBM 55028	QC-1a	55RE55F1080A	CBM 55029-F	* SEE BELOW	55RE55J1112A	CBM 55034	QCC, QCD	55RE55J1095A
RANGE INDICATOR DES. DIV. 19 - RANGE 1000 & 5000 YDS. SIMILAR TO 55025 AS TO MECHANISM BUT HAS ITS OWN CASE & OPERATES ON 220 VOLT.			INDICATOR 2 SPEED TYPE: 0 TO 1000 YARDS & 0 TO 5000 YARDS; SIMILAR TO NAVY TYPE CBM-55029D EXCEPT FOR TERMINAL ENGRAVING.			INDICATOR 2 SPEED SIMILAR TO -55029A EXCEPT IT IS SEPARATELY HOUSED. IN REAR OF INDICATOR IS MOUNTED A -20062 REC-AMP POWER UNIT.		
12/28/36 722 B			* QCA-1, QCB-2, 3, QCE-2, 3.			8/12/38 722 N		
NOV. 41			2/20/40 722 Z			NOV. 41		
			NOV. 41					

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CBM 55034-A	QCH-2	55RE55J1095 MODIFIED	CBM 55042	WAB	55RE 55J 1121	CBM 55050	NJ-1	
INDICATOR MODIFIED IN ACCORDANCE WITH SUBMARINE SIGNAL CO. PLAN.			INDICATOR - RECEIVER AMPLIFIER. CONSISTS OF NAVY TYPES CBM-200598 RECTIFIER POWER UNIT, CBM- 46079 RECEIVER AMPLIFIER AND CBM-55043 INDICATOR.			SOUNDING INDICATOR-RE- CORDER. INDICATOR-RECORDER, 0-200 FEET SHOAL; 0-200 FATHOMS DEEP, DIAL AND RECORDER STYLUS DRIVEN BY SINGLE MOTOR THROUGH SELECTIVE GEARS TO PERMIT SHIFT FROM SHOAL RANGE OPERATION TO DEEP RANGE OPERATION. SIMULTANEOUS INDICATION OF 10/19/40 712 K SK-4687 SUB 0 NOV. 41		
1/2/40	722 N	6940 ALT 0	4/12/40	767 0	CBM:767G ALT 0			
NOV. 41	MODIFIED		AUG. 42					
CBM 55035	NM-11	55RE55J1099A	CBM 55043	WAB	55RE 55J 1122		DEPTH BY RED LIGHT AND	55050
DEPTH INDICATOR 2 SPEED.			INDICATOR 2 SPEED TYPE 0 TO 200 & 0 TO 2000 FATHOMS. SIMILAR TO NAVY TYPE CBM- 55040 EXCEPT FOR ADDITION OF A THREE-WAY SOUNDING-RANGING CONTROL SWITCH AND INCIDENTAL CIRCUIT CHANGES REQUIRED FOR THIS METHOD OF OPERATION.			RECORD.		
9/16/38	722 L	SK-3993 B ALT 0	4/12/40	722 AD	CBM:722AD			
NOV. 41			AUG. 42					
CBM 55036	QBB		CBM 55044	WAB	55RE 55J 1123		CBM 55051	NK
RANGE INDICATOR EX-CBM 55022 MODIFIED TO OPERATE ON 115 VOLT, 60 CYCLE, SINGLE PHASE & REMOVAL OF PARTS & INSTALLATION OF.			INDICATOR 2 SPEED TYPE - 0 TO 1000 & 0 TO 5000 YARDS. SIMILAR TO NAVY TYPES CBM-55029C EXCEPT FOR ADDITION OF A THREE-WAY SOUNDING-RANGING CONTROL SWITCH & INCI- DENTAL CIRCUIT CHANGES REQUIRED FOR THIS METHOD OF OPERATION.			PORTABLE SOUNDING RECORDER: INPUT 12 VOLTS AT 10.5 AMPS. CONTAINS RECORDER MECHANISM, DRIVER AND RECEIVER- AMPLIFIER. RANGE OF RECORDING: 3 TO 55, 35 TO 90, 70 TO 125, 105 TO 160 FEET ON SHOAL SIDE; 3 TO 55, 35 TO 90, 70 TO 125 105 TO 160 FATHOMS ON DEEP SIDE. 10/19/40 808B SK-4508 ALT 0 NOV. 41		
1/17/39			4/12/40	722 AC	CBM:722AC			
NOV. 41			AUG. 42					
RA- 55037	XAJ		CBM 55045	NM-15	55RE55J1117		CBM 55052	QCM-1. 2
RANGE INDICATOR & GYRO-COMPASS REPEATER UNIT.			SOUNDING INDICATOR 2 SPEED TYPE; 0 TO 200 & 0 TO 2000 FATHOMS.			INDICATOR: 2 SPEED TYPE: 0 TO 1000 YARDS AND 0 TO 5000 YARDS. SAME AS TYPE CBM-55031B EXCEPT FOR CHANGE IN SUB ITEMS TO PROVIDE SCREW- DRIVER ADJUSTMENT OF SIGNAL LENGTH CON- TROL AND REMOVAL OF ZERO SIGNAL POSITION CONTROL TO INTERIOR OF THE CASE. 10/22/40 722V 6969 ALT 0 NOV. 41 722V		
5/12/39			7/24/40	722X	SK-60,001 ALT 0			
NOV. 41			MAR. 42		MODIFIED			
CBM 55038	WAA		CBM 55046	NM-16	55RE55J1120A		CBM 55053	NJ-2
INDICATOR RANGE 1000 TO 5000 YARDS. SIMILAR TO -55029B EXCEPT FOR TERMINAL ENGRAVING, OMISSION OF MOTOR GENERATOR START-STOP- SWITCH AND ADDITION OF RANGING-SOUNDING SWITCH.			SOUNDING INDICATOR: 2 SPEED TYPE, 0 TO 200 & 0 TO 2000 FATH- OMS			SOUNDING-INDICATOR - RECORDER. INDICATOR-RECORDER, 0 TO 200 FT SHOAL, 0 TO 200 FATHOMS DEEP. DIAL AND RECORDER STYLUS DRIVEN BY SINGLE MOTOR THROUGH SELECTIVE GEARS TO PERMIT SHIFT FROM SHOAL RANGE TO DEEP RANGE OPERATION. SIMULTANEOUS INDICATION OF 10/25/40 712 L SK-4687 ALT 0 NOV. 41		
8/9/39	722 U	SK-3781D ALT 0	7/24/40	CBM:722Y	CBM:SKETCH 60, 001 ALT 0			
NOV. 41			JUNE 42					
CBM 55039	WAA		CBM 55047	* SEE BELOW			DEPTH BY RED LIGHT & RECORD.	55053
INDICATOR 2 SPEED. 0 TO 200 & 0 TO 2000 FATHOMS. SIMILAR TO -55033A EXCEPT TERMINAL ENGRAVING & CHANGE IN WIRING FOR RANG- ING - SOUNDING SWITCH.			SOUNDING INDICATOR 0 TO 400 FATHOMS. UNIT CONSISTS OF A NAVY TYPE -55022 AS MODIFIED BY CHANGING DIAL AND CIRCUIT ARRANGEMENT TO PERMIT ITS USE WITH THE APPLICABLE EQUIPMENTS.			SAME AS CBM-55050 EXCEPT LINE VOLTME- TER, RELAY COIL & GEAR SHIFTING SOLENOID ARE FOR 115 VOLT DC OPERATION.		
8/9/39	722 T	6921 ALT 0	* NM-14 & NM-14B.					
NOV. 41			9/5/40	4625	SK-4675			
NOV. 41			NOV. 41					
CBM 55040	NM-12	55RE55J1109	CBM 55048	* SEE BELOW			CBM 55054	WBA
INDICATOR 2 SPEED; 0 TO 200 & 0 TO 2000 FATHOMS; SAME AS -55035 EXCEPT FOR IMPROVED OVER- RUNNING CLUTCH; INCLUDES COMBINED METHOD SELECTOR SWITCH.			SOUNDING INDICATOR 0 TO 400 FATHOMS. UNIT CONSISTS OF A NAVY TYPE -55010 AS MODIFIED BY CHANGING DIAL, AND CIRCUIT ARRANGEMENT TO PERMIT ITS USE WITH THE APPLICABLE EQUIPMENTS.			INDICATOR RE 55J 1124A CONVENTIONAL TWO MOTOR, TWO SPEED IN- DICATOR HAVING RANGE OF 0-1000 AND 50-5000 YARDS.		
10/16/39	722 Q	CBM:6893, 722 Q	* NM-14 SERIES.				10/29/40	722W
MAR. 44			10/16/40	SK-4625A			MAR. 45	60009 ALT 0
			NOV. 41					
CRV 55041	QCJ-2, & QCL		CBM 55049	* SEE BELOW			CBM 55055	WBA
INDICATOR DUAL RANGE: 0 TO 1000 YARDS & 0 TO 5000 YARDS. REVOLVING MIRROR, LIGHT VALVE TYPE.			SOUNDING INDICATOR 0 TO 400 FATHOMS. UNIT CONSISTS OF A NAVY TYPE -55013 AS MODIFIED BY CHANGING DIAL AND CIRCUIT ARRANGEMENT TO PERMIT ITS USE WITH THE APPLICABLE EQUIPMENTS.			INDICATOR RE 55J 1125A SOUNDING INDICATOR SINGLE SPEED, 0 TO 200 FATHOMS BY "AUTOMATIC" METHOD, AND 50 TO 1000 FAT- HOMS BY "SEMI-AUTOMATIC" METHOD.		
2/1/40			* NM-14 SERIES.				10/29/40	704A
NOV. 41			10/16/40	SK-4625B			MAR. 45	60016 ALT 0
			NOV. 41					

DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER
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NAVSHIPS 900,109

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CRV 55056	CXAX		NEON FLASH, SEMI-AUTOMATIC BY CONTINUOUS GLOW.	55062		MARKED FOR RANGES OF 0 TO 190 FEET AND 0 TO 190 FATHOMS. RECORDING AND RED LIGHT INDICATIONS SIMULTANEOUS. RECORDINGS 1/4 AS OFTEN AS RED LIGHT.		55067
RECEIVER INDICATOR FREQ. RANGE: 14 TO 32 KC. DELIVERS 600 MW OF AUDIO TO A 600 OHM LINE.								
12/19/40		DX-273236 REV 0						
NOV. 41								
CBM 55057	WAB-1		CRV 55063	NMB-1		CBM 55068	NJ-3	
SOUNDING INDICATOR MODIFIED CBM-55022 RANGE INDICATOR BY INTERNAL WIRING.			AMPLIFIER-INDICATOR RECORDER. FREQUENCY RANGE: 17 TO 19 KC. INPUT IMPEDANCE 100 OHMS. AUDIO OUTPUT IMPEDANCE 600 OHMS. AUDIO OUTPUT POWER 300 MW. INPUT: 115 VOLTS. 60 CYCLES. SINGLE PHASE. 200 WATTS.			INDICATOR-RECORDER INPUT 95 WATTS AT 115, 230 OR 440 V. 60 CYCLES. SINGLE PHASE. INDICATOR SCALES CALIBRATED 0 TO 400 FATHOMS AND 0 TO 400 FEET. SWITCH ALLOWS SOUNDINGS AT TWICE SCALE READINGS, 0 TO 800 FATHOMS AND 0 TO 800 FEET. PAPER FEED IS 0.004" PER 8/6/41 712Q SK-4895, ALT 1		
1/15/41	SK-4717A	SK-4675 ALT 0	4/25/41		W-303332-1	NOV. 41		NOV. 41
NOV. 41			NOV. 41		SUB 0			
CBM 55058	WAC		CBM 55064	NMB		SOUNDING, DRIVEN FROM INDICATOR MECHANISM. DOUBLE STYLUS ON RECORDER PERMITS ONE RECORDING FOR EVERY RED LIGHT INDICATION.		55068
SOUNDING INDICATOR DIFFERS FROM CBM-55057 IN INTERNAL WIRING WHICH IS FIXED BY THE OTHER UNITS OF THE EQUIPMENT.			INDICATOR RECORDER INDICATOR MECHANISM IDENTICAL WITH CBM-55046. RECORDER SECTION CONSISTS OF TWO STYLUS ARMS DRIVEN BY THE INDICATOR MECHANISM. RECORDINGS ARE MADE ONLY ON 200 AND 2000 FATHOM RANGES, WITH RECORDINGS OCCURRING ONE-HALF AS OFTEN AS RED					
1/15/41	SK-4717	4675 ALT 0	4/28/41	858	60078 ALT 0			
NOV. 41			NOV. 41					
CBM 55059	WDA		LIGHT INDICATION. PAPER FEED = 0.004" PER RECORDING.	55064		CAN 55069	* SEE BELOW	
RANGE INDICATOR 2 SPEED TYPE: 0 TO 1000 YDS AND 0 TO 5000 YARDS. SAME AS 55052 EXCEPT FOR THE ADDITION OF A CONTROL SWITCH FOR TRANSFER OF CONTROL OF RANGING METHOD QC OR QB, AND FOR TRANSFER OF RANGING TO SOUNDING OPERATION.						RECORDER, PLOTTER WET PAPER TYPE, RECORDS 0 TO 1000 AND 0 TO 2500 YARDS. (NOS-91663). * GENERAL UNDERWATER SOUND USE.		
4/4/41	722 AE	60064 ALT 0				9/30/41	CAN:811947	
NOV. 41						MAR. 44	REV 0	
CBM 55060	NMB-2		CRV 55065	WEA		CAN 55070	GEN UW USE	
SOUNDING INDICATOR 2 SPEED TYPE: 0 TO 200 & 0 TO 2000 FATHOMS. IDENTICAL WITH 55046 EXCEPT FOR CHANGE IN TERMINAL PANEL ARRANGEMENT, NUMBER OF TERMINALS, AND WIRING IN ORDER TO PERMIT USE OF RECORDER IF PART OF COMPLETE EQUIPMENT. THIS			INDICATOR-RECEIVER UNIT RECEIVER COVERS RANGE OF 14 TO 32 KC. DELIVERS 600 MW OF AUDIO INTO A 600 OHM LINE. INDICATOR HAS TWO SCALES, 0 TO 1000 AND 0 TO 3000 YARDS. SIMILAR TO 55059 EXCEPT FOR INPUT TRANSFORMER.			RECORDER: WET PAPER TYPE RECORDS 0 TO 1500 & 0 TO 3750 YARD. INPUT: 115/1/60 AT 0.5 AMP. 20 WATTS.		
4/7/41	722 AG	60,057 ALT 0	5/3/41	MI-8964	W-303375-3	1/24/42	CAN:811947	
NOV. 41			NOV. 41		SUB 1	AUG. 44	REV 0	
UNIT CAN BE INTERCHANGED ELECTRICALLY AND MECHANICALLY WITH 55046 BY ADDITION OF JUMPERS ON THE TERMINAL PANEL.		55060	CBM 55066	NK-1		CAN 55070A	*SEE BELOW	
			SOUNDING, RECORDER INPUT 6 VOLTS AT 21 AMPS. CONTAINS RECORDER MECHANISM, DRIVER, AND RECEIVER AMPLIFIER. RANGE OF RECORDING: 3 TO 200 FEET (SHOAL). (SIMILAR TO CBM-55051).			RECORDER: WET PAPER TYPE RECORDS 0 TO 1500 AND 0 TO 3750 YARDS. SAME AS 55070 EXCEPT THE DATA SCALE INCLUDES MARKINGS AND ENGRAVINGS FOR BOW COMPENSATION AS WELL AS ASTERN COMPENSATION. *GENERAL USE- UNDERWATER SOUND. 6/2/42 MAR. 44		
			5/16/41	808C	SK-4508C	6/2/42	CAN:811947	
			NOV. 41			MAR. 44	REV 0	
CBM 55061	NMB-2		CBM 55066-A	NK-3		CAN 55070-B	NOS-98333	
RECORDER OPERATES FROM 115 VOLTS AC. A SINGLE MOTOR IS USED TO DRIVE THE KEYING MECHANISM AND RECORDER STYLUS. RECORDER PAPER MECHANISM IS DRIVEN BY A SELF STARTING SYNCHRONOUS MOTOR. RANGE OF RECORDING 2 TO 400 FATHOMS.			SOUNDING RECORDER: INPUT 6 V AT 21 AMP. CONTAINS RECORDER MECHANISM DRIVER AND RECEIVER AMPLIFIER. RANGE OF RECORDING: 3 TO 200 FT (SHOAL). SAME AS BASIC NUMBER EXCEPT INCLUDES TWO VIBRAPACK UNITS WITH FUSES INSTEAD OF TWO DYNAMOTORS.			RECORDER: WET PAPER TYPE. RECORDS 0-1500 AND 0-3750 YOS. SAME AS 55070 EXCEPT THE DATA SCALE INCLUDES MARKINGS FOR BOW COMPENSATION AS WELL AS ASTERN COMPENSATION, RELATIVE SPEED SCALE INCLUDES ENGRAVING FOR EVERY KNOT UP TO 20. PIPE TAPPED HOLES REDUCED FROM 10/20/42		
4/7/41	741 A	SK-4822 ALT 0	3/26/43	CBM:808F	CBM:SK-4508C	10/20/42	CAN:811947	
NOV. 41			JUNE 43		ALT 0	MAR. 44	REV 0	
CBM 55062	CXAT		CBM 55067	NJ-4		CAN 55070-B		
INDICATOR SCALE RANGES OF 0 TO 1000 AND 0 TO 3000 YARDS. INDICATING DEVICES, TWO LUCITE ARMS ROTATING CONCENTRICALLY, ARE OPERATED BY A SINGLE PHASE 60 CYCLE SYNCHRONOUS MOTOR THROUGH A BELT DRIVE. AUTOMATIC INDICATIONS BY INSTANTANEOUS			INDICATOR-RECORDER INPUT 115 VOLTS AC. THE INDICATOR HAS TWO SPEED RANGES; SCALE RANGES CALIBRATED 0 TO 200 FEET AND 0 TO 200 FATHOMS. RECORDER ARMS DRIVEN BY INDICATOR SYNCHRONOUS MOTOR. RECORDER PAPER DRIVEN BY SYNCHRONOUS CLOCK MOVEMENT;			5 TO 3. WIRING CIRCUIT ALTERED SO THAT GROUND CIRCUIT OF RECEIVER AMPLIFIER MUST BE BROUGHT TO TERMINAL 56. USES 6X5 CT AS SIGNAL RECTIFIER INSTEAD OF RECTOX UNIT. (SERIAL NUMBERS 1011 AND UP OF 55070)		
4/21/41	822	SK-4634 ALT 0	5/17/41	712P	SK-4891 ALT 1			
NOV. 41			NOV. 41					

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3.55-5

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
CAN 55070-C			CAN 55076A QFA-1			CONTROLS ARE RANGE		CBM55081
RECORDER: IDENTICAL TO CAN-55070-B EXCEPT INCLUDES AUTOMATIC BIAS CIRCUIT.			RECORDER: WET PAPER TYPE, RECORDS 0 TO 1500 & 0 TO 3750 YARDS, SAME AS -55076 EXCEPT THAT A BOW THROWER SCALE HAS BEEN ADDED.			SELECTOR, EQUIPMENT POWER SWITCH, VISUAL-AUDIBLE SWITCH, AND INDI- CATOR SENSITIVITY CONTROL. SIMILAR TO CBM-55080 EXCEPT THAT CASE IS OF BRONZE, MOTOR-GENERATOR AND EQUIPMENT PUSH BUT- TONS HAVE BEEN OMITTED, AND A TOGGLE SWITCH ADDED FOR EQUIPMENT ON-OFF. IN- PUT: 115/1/60, 1.6 AMP, 50 WATTS.		
12/22/42 MAR. 44	CAN:811947 REV 0		8/24/42 MAR. 44	CAN:811947 REV 0				
55071 UNASSIGNED.			CAN 55076-B QFA			CBM 55082 QBE, QBE-1		
			RECORDER WET PAPER TYPE, RECORDS 0 TO 1500 AND 0 TO 3750 YARDS. SAME AS CAN-55070C EXCEPT HAS VACUUM TUBE RECTIFIER INSTEAD OF COPPER OXIDE UNIT AND HAS AUTOMATIC SELF-BIASING UNIT.			LIMIT LIGHT-BOX: EMPLOYED TO INDICATE THE VERTICAL PO- SITION OF THE PROJECTOR. GREEN LIGHT INDICATES THAT PROJECTOR IS RAISED, RED LIGHT INDICATES THAT PROJECTOR IS IN OTHER THAN THE RAISED POSITION. DOES NOT INCLUDE BULBS. LAMPS ARE NAVY SIZE S7, 5/20/42 CBM:899,899A CBM:SK-5298 OCT. 42 ALT 0		
MAR. 42			2/23/44 MAR. 44	CAN:811947 REV 0				
CG- 55072 SH			CBM 55077 WCA			CIP 55083 NJ-6		
ANTENNA SYNCHRO INDICATOR 0° TO 360° IN ONE DEGREE STEPS. (2 SYNCHROS)			SOUNDING INDICATOR: SCALE RANGES ARE 0 TO 400 FATHOMS AND 0 TO 2000 FATHOMS. TWO SPEED TYPE. SIMILAR TO TYPE CBM-55046 EXCEPT FOR NUMBER AND TYPES OF CONTROLS. INPUT 120/1/60, .75 AMPS, 40 WATTS.			SOUNDING INDICATOR: RANGE OF SOUNDINGS 200 FEET AND 200 FATHOMS. INCLUDES MOTOR-ALTERNATOR ON-OFF SWITCH, EQUIPMENT AC POWER SWITCH, SENSITIVITY CONTROL, HANDLE TO SWIFT FROM FATHOM SCALE TO FEET SCALE, OPERATES FROM 115/ 1/60, 2 AMPS, 75 WATTS. 5/30/42 CIP:EC-712S CIP:ID-1023 OCT. 42 CBM:712S ISSUE 2		
2/9/42 M-7763636 C1	CG:T-7662009		4/5/42 722AH	CBM:60095 ALT 0				
MAR. 42			MAR. 43					
CG- 55073 SH			CBM 55078 WCA			CFT 55084 *SEE BELOW		
ANTENNA SYNCHRO INDICATOR (1 SYNCHRO, 1 STEP-BY-STEP)			RANGE INDICATOR: SCALE RANGE 0 TO 5000 YARDS, SINGLE SPEED TYPE. INPUT 120/1/60, .75 AMPS, 40 WATTS.			AUTOMATIC BEARING INDICA- TOR: CAST HOUSING WITH MOUNTING FEET, ADJUSTABLE. INCLUDES 5" CR TUBE, AC MOTOR FOR MECHANICALLY PRODUCING A RO- TATING MAGNETIC FIELD. HAS LIGHT SOURCE AND MIRROR SYSTEM WHICH PRODUCES THE DAH, -1.,DAJ,,DAK 6/15/42 AUG. 42		
2/9/42 M-7763636 C2			4/5/42 609C	CBM:60093 ALT 1				
MAR. 42			MAR. 43					
CRY 55074 AYB,AYB-A			CRR 55079 ATO			CFT55084		
ALTITUDE INDICATOR: CONSISTS OF A 0 TO 6 MA DC METER HAVING 270° ROTATION, CALIBRATED BETWEEN 0 AND 400 FEET, CASE IS STANDARD AN TYPE HAVING FOUR MOUNTING HOLES ON A 3-1/2" DIAMETER.			REMOTE INDICATOR UNIT:			BEARING SCALE IN DEGREES ON A TRANSLU- CENT PLATE IN FRONT OF THE CR TUBE, ALSO INCLUDES MOUNTING FLANGE TO SUPPORT A TYPE CFT-4722? GONIOMETER WHICH IS DRIVEN BY THE MOTOR.		
3/13/42	CRV:M-253155		4/9/42	CRR:C57174B				
MAR. 43	REV 4		JUNE 42					
CRY 55074A AYB-1			CBM 55080 WEA-2			CBM 55085 QFB		
ALTITUDE INDICATOR: CONSISTS OF A 0 TO 6 MA DC METER HAVING 270° ROTATION, CALIBRATED BETWEEN 0 AND 400 FEET, CASE IS STANDARD AN TYPE HAVING FOUR MOUNTING HOLES ON A 3-1/2" DIAMETER, SAME AS TYPE -55074 EXCEPT HAS A STANDARDIZED SCALE AND AN OFF-ON SWITCH			INDICATOR: DUAL RANGE TYPE, TWO CONCENTRIC DIALS, CALIBRATED 0 TO 1000 YARDS AND 0 TO 5000 YARDS. REVOLVING NEON TUBE IS USED FOR THE SHORT SCALE INDEX. LONG SCALE INDEX IS A REVOLVING WHITE INDEX MARK, INDI- CATION BEING EITHER AUDIBLE OR VISUAL.			RANGE INDICATOR: 2 SPEED TYPE: 0 TO 1000 YARDS AND 0 TO 5000 YARDS. OPERATES FROM 115/1/60. SIM- ILAR TO CBM-55029-E EXCEPT FOR THE ADDI- TION OF A SET OF CONTACTS FOR RESETTING THE STIMULATED PROJECTOR BEAM JUST BE- FORE THE KEYING CONTACTS CLOSE, AND THE 6/21/42 722AK CBM:60191 OCT. 42 ALT 0		
3/19/42			4/13/42 CBM:884	CBM:60134 ALT 0				
APR. 42			JUNE 42					
CAN 55075 QFA			CONTROLS ARE RANGE		CBM55080	CBM55085		
INDICATOR:			SELECTOR, EQUIPMENT POWER AND MOTOR GENERATOR - PUSH-BUTTON STA- TION, VISUAL AUDIBLE SWITCH, AND INDI- CATOR SENSITIVITY CONTROL.			ADDITION OF A RELAY TO TRANSFER THE RECEIVER-AMPLIFIER OUTPUT TO EITHER THE INDICATOR OR THE RECORDER. INPUT 115/1/ 60 AT .3 AMP AND 20 WATTS.		
3/19/42								
APR. 42								
CAN 55076 QFA			CBM 55081 QBE, QBE-1			CBM 55086 QFB		
RECORDER: WET PAPER TYPE RECORDS 0 TO 1500 AND 0 TO 3750 YARDS. SAME AS TYPE CAN-55070 EXCEPT FOR CABLE CONNECTOR PLUGS.			INDICATOR: DUAL RANGE TYPE, TWO CONCENTRIC DIALS, CALIBRATED 0 TO 1000 YARDS AND 0 TO 5000 YARDS. REVOLVING NEON TUBE IS USED FOR THE SHORT SCALE INDEX. LONG SCALE INDEX IS A REVOLVING WHITE INDEX MARK, INDI- CATION BEING EITHER AUDIBLE OR VISUAL.			PLAN INDICATOR FOR PLOT- TING: CONTAINS RESOLVING MECHANISMS FOR DESTROYER AND SUBMARINE. CONTROL DEVICES FOR THE INDICATION OF DESTROYER HEAD AND SUBMARINE HEAD ON THEIR RESPECTIVE CYRO- COMPASSES, AND INDICATING LIGHTS WHICH TRAVEL OVER THE TABLE TOP SO THAT THE 6/21/42 893 CBM:SK-5386 OCT. 42 ALT 0		
3/19/42	CAN:811947		5/20/42 CBM:884A	CBM:SK-5295 ALT 0				
MAR. 44	REV 0		OCT. 42					
		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

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
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RBH 55086

COURSE OF BOTH SUBMARINE AND DESTROYER MAY BE OBSERVED BY THOSE GATHERED AROUND THE TABLE. INPUT 115/1/60 AT .175 AMP AND 72 WATTS.

CPN 55090 RBW

PANORAMIC RADIO ADAPTER: OPERATES FROM 115/1/60, .52 AMPS, 53 WATTS. TO PROVIDE FOR MAX SWEEP WIDTH OF ±500 KC ON A 3-INCH CATHODE RAY SCREEN. INPUT FREQ 5.25 MC. 12 KC RESOLUTION AT MAX SWEEP WIDTH. CABINET 11" WIDE, 6-1/2" HIGH, 11-7/8" DEEP. EQUIPPED WITH FOUR 7/20/42 CPN:SN-27 CPN:SPEC 111 MAR. 43 TYPE T-1000

CFT 55092-B DAU

AUTOMATIC BEARING INDICATOR: SAME AS CFT-55092 EXCEPT HAS CONTACTOR ON ROTATING PART OF INDICATOR FOR SYNCHRONIZING PANORAMIC CIRCUITS AND HAS PLUG TO BRING THE CONTACTOR CIRCUITS BACK TO RECTIFIER POWER UNIT NAVY TYPE CFT-20241. MAY BE USED TO REPLACE -55092 7/9/43 CFT:SPEC (CANCELLED) MAR. 44 NUS-130

CIP 55087 QBC

INDICATOR: SCALES 0 TO 1000 AND 0 TO 5000 YARDS.

CPN 55090

SHOCK ABSORBERS. FOR USE WITH THE RBK SERIES OF EQUIPMENTS.

DR -55092-A.

CFT 55092-B

6/24/42
AUG. 42

CPN 55088 RBO

PANORAMIC RADIO ADAPTER: OPERATES FROM 115/1/60. TO PROVIDE FOR MAX SWEEP WIDTH OF ±25 KC ON A 3 INCH CATHODE RAY SCREEN. INPUT FREQ 400 KC. 2.5 KC RESOLUTION AT MAX SWEEP WIDTH. CABINET 11" WIDE, 6-1/2" HIGH, 11-7/8" DEEP. EQUIPPED WITH SHOCK ABSORBERS. 7/20/42 SN-RBB OCT. 42

CPN 55090-A RBW-2

PANORAMIC ADAPTOR INPUT: 115 OR 230/1/60, 0.56 AMPS, 60 WATTS (AT 115V) INPUT FREQUENCY 5.25MC SWEEP WIDTH ±500KC. SAME AS TYPE -55090 EXCEPT FOR CHANGE IN CATHODE RAY TUBE FROM 3API TO 3BPI AND USE OF UNIVERSAL TRANSFORMER. 10/8/43 CPN:P3-401 NOV. 43 REV 0

CET 55093 NJ-8

RECEIVER INDICATOR: INDICATOR CALIBRATIONS: 0 TO 304 FT & 0 TO 304 FATHOMS (CIRCULAR). RECEIVER FREQ: 14.25 KC. AMPLIFIER: MAX. GAIN 180 DB AT RECEIVER FREQ, INPUT IMPEDANCE 15 OHMS, OUTPUT IMPEDANCE 67,500 OHMS. POW-ER INPUT 115/1/60, 1.56 AMP, 154 WATTS. 9/3/42 CIP:ES-1048 CIP:10-1040 NOV. 43 ISSUE 3

CPN 55088

FOR USE WITH RBB SERIES OF EQUIPMENTS.

CPN 55090-B RBW-2M RE 13A 780

PANORAMIC ADAPTOR ADD 1 INPUT 115 OR 230/1/60, 0.56 AMPS, 60 WATTS (AT 115V). INPUT FREQ. 5.25 MC. SWEEP WIDTH ±500 KC. SAME AS NAVY TYPE -55090-A EXCEPT INCLUDES BLANKING VOLT-AGE ADAPTOR AND ASSOCIATED CIRCUITS. 7/15/44 AUG. 44

CIP 55094 MK-2

SOUNDING RECORDER: POWER INPUT 12 V DC, 10 AMPS. CONTAINS RE-CORDER MECHANISM, DRIVER AND RECEIVER-AMPLIFIER. RANGE OF RECORDING: 0 TO 60, 60 TO 120, AND 120 TO 180 FEET. FREQ. OF OPERATION 14.25 KC. CAPACITOR DIS-CHARGE TYPE. INPUT IMPEDANCE. 150 OHMS. 9/3/42 CIP:ES-1025 CIP:10-1037 OCT. 42

CPN 55088-A RBU-1

PANORAMIC ADAPTOR INPUT: 115 OR 230/1/60, 0.56 AMPS, 60 WATTS (AT 115V). INPUT FREQUENCY 400KC. SWEEP WIDTH ±25KC. SAME AS TYPE -55088 EXCEPT FOR CHANGE IN CATHODE RAY TUBE FROM 3API TO 3BPI AND USE OF UNIVERSAL TRANSFORMER. 10/8/43 CPN:P3-401 NOV. 43 REV 0

RA 55091 DAR

CATHODE RAY NULL INDICATOR: INCLUDES 2-INCH CATHODE RAY TUBE (#902). INDICATES STRENGTH OF RECEIVER INCOMING SIGNAL. INPUT: 6.3 VAC, 0.6 AMPS, 510 VDC. 1MA. 8/17/42 AUG. 43

CPN 55095 RBY

PANORAMIC ADAPTOR: OPERATES FROM 115/1/60. TO PROVIDE FOR MAX. SWEEP WIDTH OF ±100 KC ON A 3 INCH CATHODE RAY SCREEN FOR FREQUENCIES ABOVE 3 MC. (A REDUCED SWEEP WILL BE USABLE BELOW 3 MC). INPUT FREQ. 455 KC. 5.5 KC RESOLUTION AT MAX. SWEEP WIDTH. 10/1/42 PAH-T200 AUG. 44

CPN 55089 RBY

PANORAMIC RADIO ADAPTER: OPERATES FROM 115/1/60. TO PROVIDE FOR MAX SWEEP WIDTH OF ± 50 KC ON A 3 INCH CATHODE RAY SCREEN. INPUT FREQ. 400 MC. 3.5 KC RESOLUTION AT MAX SWEEP WIDTH. CABINET 11" WIDE, 6-1/2" HIGH, 11-7/8" DEEP. EQUIPPED WITH FOUR SHOCK ABSORBERS 7/20/42 SN-RBC OCT. 42

CFT 55092 DAQ

AUTOMATIC BEARING INDICA-TOR: CAST HOUSING, TO BE SUSPENDED FROM TABLE SUCH THAT OPERATOR SITS AT TABLE AND LOOKS DOWN AT THE 5" CATHODE RAY TUBE. INCLUDES AC MOTOR FOR MECHANI-CALLY PRODUCING A ROTATING MAGNETIC FIELD. BEARING SCALE IN DEGREES IS SUP-8/29/42 CFT:RF-952-12A NOV. 43

CPN 55095

SIMILAR ELECTRICALLY TO CPN 55095 NAVY TYPE CPN-55090 (UNIT OF MODEL RBW) EXCEPT FOR INPUT FREQ. AND SWEEP WIDTH. FOR RACK MOUNTING DOES NOT INCLUDE HOUSING. INPUT CURRENT: 1.82A. POWER RATING 168W.

CPN 55089

FOR USE WITH RBC SERIES OF EQUIPMENTS.

PORTED AT END OF CATHODE CFT 55092

RAY TUBE BY A MOUNTING RING. ALSO INCLUDES A MOUNTING FLANGE TO SUPPORT A TYPE CFT-47263 CONJOMETER WHICH IS DRIVEN BY THE MOTOR.

CPN 55095-A RBY-1

PANORAMIC ADAPTOR INPUT: 115 OR 230/1/60, 1.78 AMPS, 190 WATTS (AT 115 VOLTS). INPUT FREQ: 455KC MC. SWEEP WIDTH IS ±100KC. SAME AS TYPE -55095 EXCEPT FOR CHANGE IN CATHODE RAY TUBE FROM 3API TO 3BPI AND USE OF UNIVERSAL TRANSFORMER. 10/9/43 CPN:P3-410 NOV. 43 REV 0

CPN 55089-A RBY-1

PANORAMIC ADAPTOR INPUT: 115 OR 230/1/60, 0.56 AMPS, 60 WATTS (AT 115V). INPUT FREQUENCY 400KC. SWEEP WIDTH ±50KC. SAME AS TYPE -55089 EXCEPT FOR CHANGE IN CATHODE RAY TUBE FROM 3API TO 3BPI AND USE OF UNIVERSAL TRANSFORMER. 10/8/43 CPN:P3-401 NOV. 43 REV 0

CFT 55092-A DAK-1

AUTOMATIC BEARING INDICATOR: IDENTICAL TO -55092 EXCEPT THAT SEVERAL PARTS HAVE DIFFERENT SYMBOL NUMBERS. 3/18/43 CFT:RF-952-12A NOV. 43

RW 55096 HERALD RW 78F 119

PLOTTER INDICATOR: BEARINGS READ AROUND CIRCUMFERENCE, 0 TO 360°. DISTANCE OBTAINED FROM CONCENTRIC CIRCLES CALIBRATED 0 TO 1000, 2000, 3000, 4000, AND 5000 YARDS. BEARINGS FROM SYNCRO. RANGES FROM NEON FLASH. GROUND GLASS DIAL PERMITS MARKINGS WITH 10/3/42 OCT. 42

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
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Class 55—Indicators and Recorders

3.55-7

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
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RM 55096
 PENCIL. INPUT IMPEDANCE 600 OHMS FOR NEON TUBE AMPLIFIER. POWER INPUT: 115/1/60.

CAN 55101-A QFA-3
 RANGE RECORDER
 THIS UNIT IS THE ATTACK TEACHER EQUIVALENT OF THE SERVICE TYPE CAN-55100-A RANGE RECORDER. SAME AS CAN-55101 EXCEPT CHART DRIVE HAS BEEN ALTERED..

CBM 55107 QBE-2
 LIMIT LIGHT BOX:
 SIMILAR TO TYPE -55082. DOES NOT INCLUDE LAMPS.

8/3/43
 MAR. 44
 CAN:811947
 REV 0

1/12/43
 JUNE 43
 CBM:899C
 CBM:60254
 ALT 0

CBM 55097 QCS,QCT 55RE55J1138A
 RANGE INDICATOR:
 TWO SPEED TYPES: 0 TO 1000 YARDS AND 0 TO 5000 YARDS. SAME AS CBM-55029E EXCEPT THAT NO MOTOR GENERATOR SWITCH OR ITS ASSOCIATED PILOT LIGHT IS INCLUDED; THE SWITCH FORMERLY USED AS A SIGNAL INTERVAL SWITCH IS OMITTED, AND A RANGE 10/8/42
 CBM:722AL
 MAR. 44
 CBM:60269
 ALT 0

CBM 55102 NJ-7
 SOUNDING INDICATOR:
 INPUT 95 WATTS AT 115 VOLTS SINGLE PHASE 60 CYCLES 0.7 AMP. OTHERWISE SIMILAR TO CBM-55068 EXCEPT THERE IS NO RECORDER, HAS NO PROVISION FOR ALTERNATE KEYING CUTOFF. THE RANGE IS 0 TO 200 FEET OR FATHOMS.
 1/3/42
 JUNE 43
 CBM:712U
 CBM:60097A
 ALT 0

CBM 55108 QBF-1
 PLAN INDICATOR:
 SAME AS TYPE -55036 EXCEPT PROJECTOR TRAINING REPEATER POTENTIOMETER IS OMITTED.

1/13/43
 JUNE 43
 CBM:893A
 CBM:60191
 ALT 0

CBM 55097
 SWITCH PROVIDING FOR SIGNAL INTERVAL AND MANUAL-STANDARD-ALTERNATE CONTROL IS PROVIDED. OPERATES FROM 115/1/60, 40 WATTS AND 0.75 AMPS.

CW-55103 QBF
 INDICATOR AND CONTROL
 UNIT: INDICATOR HAS THREE SCALES: 0 TO 1000 OR 0 TO 5000 YARDS FOR RANGE, 0 TO 360° TO INDICATE BEARING OF PROJECTOR WITH RESPECT TO SHIPS HEAD; AND 0 TO 360 GIVES TRUE BEARING OF PROJECTOR. KEYING MAY BE AUTOMATIC OR MANUAL.
 1/8/43
 JUNE 43
 CW:D-163460
 CW:ESX-641268
 ISSUE 1

QCE 55109 QFE
 BEARING TEACHER:
 SUPPLY: 115/1/60. AUDIO FREQUENCY IS 800--.

1/28/43
 JUNE 43
 AF-15523

CQA 55098 *SEE BELOW
 BEARING DEVIATION INDICATOR: ESSENTIALLY A TWIN CHANNEL AMPLIFIER FOR SIMULTANEOUS LOBE COMPARISON IN AZIMUTH (SLCA) WITH OSCILLOSCOPE FOR USE WITH QC EQUIPTS. 115/1/60 INPUT.
 *GENERAL QC EQUIPT.
 12/11/42 NDRC MODEL
 NOV. 43 X-3SLC

CW-55103
 PROVISIONS FOR RECORDING. HAND WHEEL PROVIDED FOR CONTROL OF TRAINING MOTOR.

CPK 55110 QBC-1, QBD
 RECEIVER-INDICATOR:
 INPUT: 115/1/60, 200 WATTS. AMPLIFIES RECEIVED SIGNAL AND INTERPRETS THE TIME INTERVAL BETWEEN TRANSMITTED SIGNAL RECEIVED FROM TARGET IN TERMS OF DISTANCE. ALSO POSSIBLE TO LISTEN WITH THIS UNIT.

2/5/43
 JUNE 43

CQA 55099 *SEE BELOW RE 13A 679
 BEARING DEVIATION INDICATOR: 115/1/60 INPUT.

CBM 55104 *SEE BELOW RE 13A 679
 BEARING DEVIATION INDICATOR
 SIMILAR TO -55098 EXCEPT FOR EQUIPMENT USE.

CBM 55111 QCP-1
 INDICATOR-RECORDER:
 CONSISTS OF A SPEED RANGE INDICATOR WITH SCALES OF 0-1000 AND 0-5000 YDS. AND A FOUR ARM RECORDER WHICH RECORDS EVERY SIGNAL. ALSO INCLUDES A HAND KEY AND AN EQUIPMENT START-STOP SWITCH.

3/27/43
 JUNE 43
 CBM:918
 CBM:SK-5490
 ALT 0

#SIMILAR TO NDRC X-3SLC EXCEPT FOR NAVY APPROVED COMPONENTS.
 *GEN. QC EQUIPT.
 12/22/42
 JUNE 43 #SEE ABOVE

*FOR USE WITH WEA-1, QCU, QCV, QCQ-2
 1/8/43
 NOV. 43

CAN 55100 GEN U.W.S.
 RANGE RECORDER:
 175/1/60 INPUT. SIGNAL INPUT IS 600 TO 1000 CY. INCLUDES A VACUUM TUBE SIGNAL RECTIFIER, FLUORESCENT LIGHTING AND PAPER, ULTRA-VIOLET LAMP. RANGE: 0-1500 AND 0-3750 YARDS. SIMILAR TO TYPE -55101 AND -55070-C.
 1/2/43
 MAR. 44
 CAN:811947
 REV 0

CBM 55105 *SEE BELOW RE 13A 679
 BEARING DEVIATION INDICATOR
 SUPPLY: 115/1/60. CONSISTS OF RECTIFIER, TWIN-CHANNEL AMPLIFIER AND OSCILLOSCOPE. SIMILAR TO -55099 EXCEPT FOR EQUIPMENT USE.

CAN 55112 QGB
 INDICATOR RANGE RECORDER:
 OVERALL DIMENSIONS ARE 11-1/2" X 13" X 9" WEIGHT IS 55 LBS. SIMILAR TO -55100 EXCEPT CHART IS WITHDRAWN FROM TANK AT AN ANGLE OF 55° TO THE MOUNTING PLATE.

5/21/43
 SEPT 43
 CRY:W-30639E-4
 REV 2

CAN 55100-A *GEN UWS USE
 RANGE RECORDER:
 SAME AS BASIC NUMBER EXCEPT FOR MODIFICATION OF RE-ROLL MECHANISM. SAME AS CAN-55124 EXCEPT FOR CLUTCH CONTROL CIRCUIT WHICH IS FOR SINGLE OPERATION.

*FOR USE WITH QCS, QCT
 1/8/43
 NOV. 43
 6K-5901
 ALT-0

CBM 55113 NMC-1
 INDICATOR-RECORDER:
 INDICATOR MECHANISM IDENTICAL WITH CBM-55046. RECORDER SECTION CONSISTS OF TWO STYLUS ARMS DRIVEN BY THE INDICATOR MECHANISM. RECORDINGS ARE MADE ONLY ON 400 AND 4000 FATHOM RANGES, WITH RECORDINGS OCCURRING ONE HALF AS OFTEN AS RED
 5/22/43
 SEPT 43
 CBM:838A
 CBM:60078
 ALT 0

5/17/43
 MAR. 44
 CAN:811947
 REV 0

CBM 55106 QBE-2
 RANGE INDICATOR:
 SAME AS TYPE -55081 EXCEPT; DIFFERENT MOTOR MANUFACTURER. USES POLOROID JEWELS WITH PILOT LAMPS, OMTS MOTOR PF CORRECTION CAPACITORS. SWITCH CHANGED FROM ROTARY TO VISUAL AUDIBLE TYPE. EMPLOY NEW MOTOR COUPLING AND INCLUDES DRIVER &
 1/12/43
 JUNE 43
 CBM:8848
 CBM:SK-5295
 ALT 2

CAN 55101 QFA.
 RANGE RECORDER:
 SAME AS -55100 EXCEPT INCORPORATES FEATURES FOR USING WITH ATTACK TEACHER EQUIPMENT AND SIMILAR TO -55076.

CBM 55106
 INDICATOR ON OFF SWITCH INSTEAD OF INDICATOR ON-OFF SWITCH.

CBH 55113
 LIGHT INDICATION. PAPER FEED: 0.004" PER RECORDING. SIMILAR TO TYPE -55064.

DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER	ASSIGNED	DATE	MANUFACTURER'S DESIGNATION	MANUFACTURER'S DRAWING NUMBER
1/2/43 MAR. 44										

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
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CBM-55113-A NMC-2
INDICATOR-RECORDER:
INDICATOR MECHANISM IDENTICAL WITH
CBM-55046. RECORDER SECTION CONSISTS OF
TWO STYLUS ARMS DRIVEN BY THE INDICATOR
MECHANISM. RECORDINGS ARE MADE ONLY ON
400 AND 4000 FATHOM RANGES, WITH RECORD-
INGS OCCURRING ONE HALF AS OFTEN AS RED
11/30/44 838C 60457
DEC. 44 ALT. 0

CFE 55118 DAS-1
INDICATOR:
GENERATES TIMING INTERVALS OF DIFFERENT
DURATIONS THROUGH FREQ DIVISION. IN-
CLUDES CATHODE RAY OSCILLOGRAPH WHICH
RECEIVES THESE SIGNALS AND SIGNALS FROM
THE RECEIVER AND INDICATES THE TIME,
DIFFERENCES BETWEEN THE TWO. INPUT:
6/24/43
SEPT 43

CQE 55121 QFF
LISTENING TEACHER:
SUPPLY: 115/1/60.

7/23/43
SEPT 43

CBM-55113-A
LIGHT INDICATION. PAPER FEED: 0.004"
PER RECORDING. PART OF TYPE -55170 IN-
DICATOR AMPLIFIER UNIT. SAME AS TYPE
-55113 EXCEPT INCLUDES AMERICAN WAR
STANDARD COMPOSITION RESISTORS, DELETES
RUBBER PARTS AND HAS OTHER MINOR MOD-
IFICATIONS.

CFE 55118
115/1/60, 1.74 AMPS, 180 WATTS.

CJ-55122 QFG
SOUND OPERATOR TRAINER:

7/28/43
SEPT 43

CPN 55114 RCC
PANORAMIC RADIO ADAPTER:
OPERATES FROM 110/115/120 VOLTS, SINGLE
PHASE 25 TO 60 CY. 0.54 AMP, 56 WATTS.
TO PROVIDE FOR A MAXIMUM SWEEP WIDTH OF
±100KC ON A 3 INCH CATHODE RAY SCREEN.
INPUT FREQUENCY ADJUSTABLE 450 TO 475KC.
RESOLUTION AT MAX SWEEP WIDTH LESS THAN
5/24/43 CPN:SA-3-T200 CPN:P3-C-X104A
SEPT 43 MODIFIED REV A

CFE 55118-A DAS-3, DAS-1a
INDICATOR
GENERATES TIMING INTERVALS OF DIFFERENT
DURATIONS THROUGH FREQUENCY DIVISIONS.
INCLUDES CATHODE RAY OSCILLOGRAPH WHICH
RECEIVES THESE SIGNALS AND SIGNALS FROM
RECEIVER; INDICATES THE TIME DIFFERENCE
BETWEEN THE TWO. INPUT 115/1/60, 1.74
2/15/44
MAR. 44

CAN 55123 QFA-3
BEARING DEVIATION INDI-
CATOR: DESIGNED TO FUNCTIONALLY RE-
SEMBLE THE UNIT CURRENTLY BEING ADDED TO
STANDARD QC INSTALLATIONS; INCLUDES NEC-
CESSARY CONTROL CIRCUITS FOR CATHODE RAY
TUBE, ANGLE RESOLVING UNIT IDENTICAL TO
THAT EMPLOYED IN THE SUBMARINE STATION,
8/3/43
SEPT 43

CPN 55114
4KC. EQUIPPED WITH SHOCK ABSORBERS.
WEIGHT 48 POUNDS.

CFE 55118-A
AMPS, 180 WATTS. SAME AS NAVY TYPE
-55118 EXCEPT INCLUDES SWITCH FOR 25 OR
33 1/3 CPS SWEEP.

CAN 55123
MOTOR PRODUCING SUBMARINE PROPELLOR BEAT
IDENTICAL TO THE ONE EMPLOYED IN THE
SUBMARINE STATION.

CW-55115 QJA
INDICATOR AND CONTROL
UNIT: HAS THREE SCALES, 1 RANGE, 1 RE-
LATIVE BEARING AND, 1 TRUE BEARING. SIM-
ILAR TO TYPE -55103 EXCEPT HAS ARRANGE-
MENTS TO PROVIDE AUTOMATIC MAINTENANCE
OF TRUE BEARING.

CBM 55119 WCA-2
SOUNDING INDICATOR:
SCALE RANGES ARE 0 TO 400 FATHOMS AND 0
TO 2000 FATHOMS. TWO SPEED TYPE. SIMILAR
TO CBM-55046 EXCEPT FOR NUMBER AND TYPES
OF CONTROLS. INPUT: 120/1/60, 0.75 AMPS
40 WATTS. SAME AS TYPE -55077 EXCEPT
START-STOP SWITCH IS OMITTED AND KEYING
7/8/43 CBM:722AM CBM:60095
SEPT 43 ALT 2

CAN 55124 HX39-27343
RANGE RECORDER:
OPERATES FROM 115/1/60. SIGNAL INPUT IS
600 TO 1000 CYCLES. INCLUDES A VACUUM
TUBE SIGNAL RECTIFIER, FLUORESCENT LIGHT-
ING AND PAPER, ULTRAVIOLET LAMP. RANGE:
0 TO 1500 AND 0 TO 3750 YARDS. SAME AS
CAN-55134-A EXCEPT FOR CLUTCH CONTROL
8/3/43 CAN:811947
DEC. 44 REV 0

6/16/43 CW:D-166469 ESX-652679
AUG. 44 ISSUE 3

CW-55116 QJA
BEARING DEVIATION INDICA-
TOR: TWIN CHANNEL AMPLIFIER FOR SIMUL-
TANEOUS LOBE COMPARISON IN AZIMUTH. CON-
TINUOUS SCANNING OBTAINED BY AN ELEC-
TRONIC SWITCHING MECHANISM.

CBM 55119
TRANSFER RELAY IS 115 VAC INSTEAD OF
75 V DC.

CAN 55124
CIRCUIT WHICH IS CHANGED TO PROVIDE FOR
PARALLEL OPERATION.

6/16/43 CW:D-166479 ESX-652679
AUG. 44 ISSUE 3

CAN 55117 QFH
CONNING TEACHER:
SUPPLY: 115 V, 1 PHASE, 60 CYCLES.
SIMPLE BOX-SHAPED STRUCTURE 22" LONG X
18" HIGH X 15" WIDE.

CBM 55120 WCA-2
RANGE INDICATOR:
SCALE RANGE: 0 TO 5000 YARDS, SINGLE
SPEED TYPE. INPUT: 120/1/60, 0.75 AMPS,
40 WATTS. SIMILAR TO TYPE -55078 EXCEPT
"MC" START STOP SWITCH IS OMITTED AND
KEYING TRANSFER RELAY IS 115 V AC IN-
STEAD OF 75 V DC; ALSO THE QB DRIVER,
7/8/43 CBM:609D CBM:60093
SEPT 43 ALT 1

CW-55125 QBC
RECORDING METER:
CONSISTS ESSENTIALLY OF AN ESTERLINE-
ANGUS MODEL AW RECORDING MILLIAM-METER
0.05-0-0.5 MA WITH A 110 V DC MOTOR
UNDER CONTROL OF A MAGNETIC CLUTCH TO
DRIVE THE PAPER. THIS UNIT ALSO HOUSES
THE SWITCHES FOR DISCHARGING THE TEST
8/19/43 CW:X-63637B-1 CW:X-63637E-1
SEPT 43 ISSUE 2A

6/23/43
AUG. 44

CAN 55117-A QFH-1
CONNING TEACHER:
SUPPLY: 115 V, 1 PHASE, 60 CYCLES. SAME
AS BASIC NUMBER EXCEPT HAS NAVY APPROVED
COMPONENTS.

CBM 55120
QB AMPLIFIER, INDICATOR, AND WA AMPLI-
FIER POWER SUPPLIES ALL HAVE TWO POSI-
TION INSTEAD OF THREE POSITION SWITCHES.

CHARGES. CW-55125

CANCELLED

6/23/43
AUG. 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
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Class 55—Indicators and Recorders

3.55-9

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		
CABD 55126 QFJ		HERALD TEACHER; SUPPLY: 115 VOLTS, 1 PHASE, 60 CYCLES.	CRY- 55132 QGB		BEARING DEVIATION INDICATOR CONSISTS OF A HOUSING MOUNTED ON 6 ROLLERS WHICH CONTAINS A 5 1/2" P 7 CATHODE RAY TUBE AND ADJUSTMENT CONTROLS THEREFOR. HY RECTIFIER, VERTICAL DEFLECTION AMPLIFIERS FOR THE INDICATOR AND SWEEP AND TVG RELAY.	CADY-55138 QFK		SOUND OPERATOR TRAINER SUPPLY: 120/1/60.		
8/21/43 SEPT 43			9/26/43 NOV. 43	MI-16722	W-306307 SUB 0	10/11/43 MAR. 44		56138		
CIP- 55127 *SEE BELOW		RECEIVER-RECORDER INCLUDES RECORDING MECHANISM AND A RECEIVER-AMPLIFIER. SUPPLY: 115/1/60. FREQUENCY 14.25 KC SOUNDING RANGE: 0 TO 200 FT OR 0 TO 200 FATHOMS. *ACCESSORY FOR NJ-8 *NX99-28260	CRY- 55133 QGB		INDICATING UNIT CONSISTS OF A-23371 KEYING UNIT, A -23400 TRAINING CONTROL UNIT, A-50165 TRAINING CONTROL AMPLIFIER, A -55112 INDICATOR RANGE RECORDER AND A -55132 BEARING DEVIATION INDICATOR.	CAN- 55139 *SEE BELOW		RANGE RECORDER SUPPLY: 115/1/60. SIGNAL INPUT IS 600 TO 1000 CYCLES. SAME AS CAN-55134 EXCEPT HAS AMPHENOL CONNECTORS ON BASE.		
9/16/43 MAR. 44	ES-1120	CIP:ES-1120	9/27/43 NOV. 43		CRY:W-306329- 4. 6. 8. 9 REV I	10/19/43 MAR. 44		*GENERAL U.S.S. USE CAN-611947 REV 0		
CIP- 55128 NK-5		SOUNDING INDICATOR SUPPLY: 6 VOLTS DC, 6 AMPS, 36 WATTS. SOUNDING RANGE: 10 TO 100 FEET. FREQ: 25.0 KC.	CAN- 55134 *SEE BELOW		RANGE RECORDER SAME AS -55100-A EXCEPT FOR MODIFIED BOW SCALE, SUBSTITUTION OF A TWIN TRIODE TUBE FOR THE SIGNAL RECTIFIER TUBE AND NECESSARY CIRCUIT MODIFICATION.	CAN- 55139-A QFA-5		RANGE RECORDER: SAME AS -55139 EXCEPT (1) ADDITION OF SLANT RANGE COMPENSATED SCALES FOR 2 ADDITIONAL CLASSES OF DEPTH CHARGES (2) NEW TYPE OF INDEX POINTER USED (3) MINOR CIRCUIT CHANGES (4) ADDITION OF FUSES.		
9/16/43 AUG. 44	ES-1130	ID-1092	10/5/44 MAR. 44		GENERAL U.S.S. USE CAN:211947 REV 0	6/6/44 SEPT. 44		811947 REV 0		
CDU- 55129 NX99-29060		LAMP INDICATOR USED TO GIVE VIRTUAL INDICATION OF CORRECT LINEUP OF (IDP) RADIO TRANSMITTER.	CAN- 55134-A GEN. SWAR USE		RANGE RECORDER: SAME AS -55134 EXCEPT (1) ADDITION OF SLANT RANGE COMPENSATED SCALE FOR 2 ADDITIONAL CLASSES OF DEPTH CHARGES (2) NEW TYPE OF INDEX POINTER USED (3) MINOR CIRCUIT CHANGES (4) ADDITION OF FUSES.	RA- 55140 MCA		BEARING DEVIATION INDICATOR INCORPORATES TWO SUPERHETERODYNE RECEIVERS FOR AMPLIFYING THE TWO OUTPUTS OF A QB PROJECTOR, SPLIT ELECTRICALLY. ONE CHANNEL THROUGH AUDIO AMPLIFIER TO A LOUDSPEAKER. A COMBINATION OF THE TWO PROJECTOR OUTPUTS FEEDS CATHODE RAY TUBE		
9/20/43 NOV. 43			4/15/44 JULY 44		CAN-55134-A	11/15/43 AUG. 44				
CHG- 55130 OBH		VIDEO ANALYZER SUPPLY: 115/1/60. FREQUENCY RANGE: 15 TO 200 KC. DETERMINES SUPERSONIC MODULATION FREQUENCIES EMPLOYED ON ANY RADIO CHANNEL AND ANALYZES ANY PULSED TRANSMISSION TO PRESENT PULSE SHAPE AND PULSE LENGTH.	CPN- 55135 RCX		PANORAMIC ADAPTER INPUT: 115 OR 230/1/60, 0.56 AMPS, 60 WATTS (AT 115 VOLTS). INPUT FREQUENCY IS 450 TO 475 KC. SWEEP WIDTH IS 2100 KC.	RA-55140		FOR VISUAL INDICATION. SAME PHYSICAL SIZE AS CBM-20062.		
9/25/43 NOV. 43			10/9/43 NOV. 43		CPN:PS-401 REV 0					
CHG- 55130-A OBH-1		VIDEO ANALYZER: SUPPLY: 115/1/60. FREQUENCY RANGE: 15 TO 200 KC. DETERMINES SUPERSONIC MODULATION FREQUENCIES EMPLOYED ON ANY RADIO FREQUENCY CHANNEL AND ANALYZES ANY PULSED TRANSMISSION TO PRESENT PULSE LENGTH. SAME AS TYPE -55130 EXCEPT FOR	CPN- 55135-A RCX-1		RE9066A ADD #1 INPUT: 115 OR 230/1/60, 0.56 AMPS, 60 WATTS (AT 115 VOLTS). INPUT FREQUENCY IS 450 TO 475 KC. SWEEP WIDTH IS 2100 KC. SAME AS NAVY TYPE -55135 EXCEPT INCLUDES BLANKING VOLTAGE ADAPTER AND ASSOCIATED CIRCUITS.	CBM 55141 NX-7		SOUNDING RECORDER INPUT: 6 VOLTS AT 21 AMPS. CONTAINS RECORDER MECHANISM, DRIVER AND RECEIVER AMPLIFIER. RANGE OF RECORDING: 3 TO 200 FT. AND 0 TO 200 FATHOMS. SAME AS TYPE -55066-A EXCEPT HAS ADDITIONAL SCALE RANGE.		
12/11/44 JAN. 45			7/15/44 SEPT. 44			1/4/44 MAR. 44		808C SX-4500 ALT 0		
CHG- 55130-A		MINOR INTERNAL CHANGES IN COMPONENTS.	CDI- 55136 GENERAL QC		RE 13A679 BEARING DEVIATION INDICATOR INPUT 115/1/60. FREQUENCY RANGE: 17.5 TO 25 KC.	CBM 55142 NEW		RANGE INDICATOR SCALE RANGE: 0 TO 5000 YARDS, SINGLE SPEED TYPE. INPUT 120/1/60, 0.75 AMPS, 40 WATTS. SIMILAR TO CBM-55120 EXCEPT: (1) INCLUDES STOP KEY SWITCH TO PREVENT ACCIDENTAL KEYING (2) INCLUDES MOTOR GEN START STOP SWITCH AND PILOT LAMP, AND QB		
			NX99-27839		10/11/43 NOV. 43	1/4/44 MAR. 44		609E SX-5885 ALT 0		
CAN- 55131 QFL		RANGE RECORDER SIMILAR TO CAN-55100A BUT MODIFIED SLIGHTLY ELECTRICALLY AND MECHANICALLY.	CBM- 55137 *SEE BELOW		RE 13A679 BEARING DEVIATION INDICATOR INPUT 110/1/60	CBM 55142		MODULATOR PILOT LAMP ARE OMITTED (4) TERMINAL PANEL ENGRAVING IS NEW.		
9/25/43 MAR. 44			*FOR USE WITH MEA-2		NX99-25819 10/11/43 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

3.55-10

Class 55—Indicators and Recorders

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
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CBM 55143 WEB
SOUNDING INDICATOR
SCALE RANGES ARE 0 TO 400 FATHOMS AND 0 TO 2000 FATHOMS. TWO SPEED TYPE INPUT: 120/1/60, 0.75 AMPS 40 WATTS. SIMILAR TO CBM-55119 EXCEPT (1) MOTOR-GEN ON-OFF SWITCH AND PILOT LIGHT ADDED. (2) BRASS SCALES REPLACED BY "HERCULITE" GLASS
1/6/43 722AP 767L
MAR. 44 ALT 2

CBM 55143
DIAL. (3) RANGE SELECTOR SWITCH IS ROTARY TYPE CAN BE LOCKED IN OFF POSITION; (4) MINOR ELECTRICAL AND MECHANICAL IMPROVEMENTS.

CG- 55144 UE-1
SYNCHRONIZATION INDICATOR
USES TWO 5" (5 CPI) CATHODE RAY TUBES. BY OBSERVATION OF SCOPES AND ADJUSTMENT OF CONVENIENT CONTROLS, THE OPERATOR IS ABLE TO MAINTAIN SYNCHRONISM IN THE EQUIPMENT.
1/6/44 DL-4W413A
MAR. 44

CPN 55145 RDK
PANORAMIC RADIO ADAPTOR
INPUT: 115/230/1/60. INPUT FREQ. 30 MC. SWEEP WIDTH 21500 KC ON A 3" CATHODE RAY SCREEN. REVOLUTION OF MAXIMUM SWEEP IS 150 KC INPUT 115/230V 50/70- 55 WATTS.
1/15/44 SA3-T3000 P3-1221
DEC. 44

CFT 55146 DAU
AUTOMATIC BEARING INDICATOR
SAME AS CFT-55092 EXCEPT HAS CONTACTOR ON ROTATING PART OF INDICATOR FOR SYNCHRONIZING PANORAMIC CIRCUITS AND HAS PLUG TO BRING THE CONTACTOR CIRCUITS BACK TO TYPE -20241 RECTIFIER POWER UNIT.
2/4/44
MAR. 44

CG- 55147 DAS-2
INDICATOR UNIT
INCLUDES SWITCH FOR 25/33 1/3 CPS REPETITION RATE OPERATION. MAY BE USED AS A REPLACEMENT FOR NAVY TYPE CG-46210 RADIO RECEIVER INDICATOR.
2/15/44
MAR. 44

CPN 55148 RCD
PANORAMIC ADAPTOR
SWEEP WIDTH 20.5 MC. RESOLUTION AT MAX. SWEEP WIDTH 12 KC OR LESS. SCREEN CALIBRATED ±500 KC IN STEPS OF 100 KC. SENSITIVITY BETTER THAN 10 MICROVOLTS THROUGHOUT RANGE OF RECEIVER 4 TO 27 MC (TO PRODUCE A SIGNAL OF 3/20") USES A
3/25/44
MAY 44

CPN 55148
A 3BP-1 TUBE. OPERATES FROM 1300 KC IF OF RECEIVER.

CRV- 55149 GEN. RC USE
BEARING DEVIATION INDICATOR:
INPUT: 115/1/60, 120 WATTS. FREQUENCY RANGE 17 TO 26 KC. TYPE NUMBER INCLUDES CABINET.
4/7/44 MI-16756 W-307065
JULY 44 SUB 0

CAN- 55150 QJB
RECORDER AND KEYING UNIT:
CONSISTS OF A DRAWER FRAME CONTAINING AN INDICATING RANGE RECORDER AND KEYING CONTROL CIRCUITS FOR ESTABLISHING PULSE LENGTH, OPERATING THE KEYING RELAYS AND CONTROLLING THE TRAINING SYSTEM DURING AUTOMATIC SEARCH. PART OF -23430 CONTROL
4/21/44 (CW)D-168477 (CW)ESX-658976
JULY 44 ISSUE 7

CAN- 55150
CONSOLE.

CM- 55151 QJB
INDICATOR AND CONTROL UNIT:
CONSISTS OF A DRAWER FRAME CONTAINING A BEARING DEVIATION INDICATOR, FACILITIES FOR INDICATION OF PROJECTOR POSITION IN AZIMUTH AND RELATIVE AND TRUE BEARING, AND MISCELLANEOUS OPERATING CONTROLS. PART OF -23430 CONTROL CONSOLE.
4/21/44 D-168464 ESX-658976
JULY 44 ISSUE 7

CQJ- 55152 UJ
INDICATOR UNIT:
HAS 2 TYPE 5CPI CRT, ONE FOR SLOW SWEEP AND ONE FOR FAST SWEEPS. PANEL CONTAINS SWITCHES AND CONTROL FOR SELECTOR AND SCOPES. USED TO PRODUCE INTELLIGENCE NECESSARY FOR CONTROLLING TIMING ACTION TO AN ACCURACY WITHIN ONE MICROSECOND.
5/27/44 DD-3093-E:2
DEC.. 44

CIP- 55153 NK-6
SOUNDING RECORDER:
A PORTABLE ENCLOSED UNIT CONSISTING OF DRIVER RECTIFIER, RECEIVER AMPLIFIER, AND RECORDING MECHANISM. RANGE OF RECORDING 4 TO 200 FT. AND 2 TO 200 FATHOMS. FREQUENCY: 14.25 KC. INPUT: 12V DC, 10 AMPS.
6/1/44 ES-1150 ID-1127
MAY 45 ISS 1

CBM- 55154 QBE-4, QBE-5
RANGE INDICATOR:
INPUT: 115/1/60, 1.6 AMPS, 50 WATTS. SIMILAR TO -55106 EXCEPT (1) NICKEL DISC INDEX PAINTED WITH RADIUM (2) TOGGLE SELECTOR SWITCH REPLACED BY ROTARY SELECTOR SWITCH SO KEYING INTERVALS OF 1000, 2000, 3000, 4000 AND 5000 YARDS
7/28/44 884C SK-5936
SEPT. 44 ALT 0

CBM- 55154
MAY BE OBTAINED (3) STEEL SCREWS REPLACED BY BRASS SCREWS (4) FRONT PANEL HARDWARE IS BLACK NICKEL (5) SET-SCREWS ARE STAINLESS STEEL (6) TERMINAL PANEL REPLACED BY TERMINAL BLOCK.

CPN- 55155 REB
PANORAMIC RADIO ADAPTOR
INPUT FREQUENCY 30 MC. SWEEP WIDTH ±3 MC INPUT: 115/230/1 PHASE 150/70 CYCLES PER SECOND. LINEAR SAWTOOTH WAVE FORM FOR SWEEP VOLTAGE. SENSITIVITY: MORE THAN 1/4" DEFLECTION OF A 30 MC SIGNAL OF 10 MILLIVOLTS APPLIED THROUGH A 27,000
8/21/44 SA3-T6000 P3-1221
OCT. 44

CPN- 55155
OHMS RESISTOR. SAME AS CPN-55145 EXCEPT IT HAS A GREATER SWEEP WIDTH. FOR OPERATION WITH AN/APR-1.

CFT- 55156 DBP
AUTOMATIC BEARING INDICATOR
ENTIRELY ELECTRONIC IN OPERATION. HAS 5" CATHODE RAY TUBE. FINAL DEFLECTION AMPLIFIER AND HIGH VOLTAGE POWER SUPPLY. ALSO INCLUDES CONTROLS NECESSARY FOR OPERATION OF INDICATOR SUCH AS FOCUS BRIGHTNESS CIRCLE DIAMETER & SCALE DIMMER
8/24/44 E-2
OCT. 44

CBM- 55157 NK-8
SOUNDING RECORDER
CONTAINS RECORDER MECHANISM DRIVER AND RECEIVER AMPLIFIER. RANGE OF RECORDING: 3 TO 200 FT., AND 0 TO 200 FATHOMS. SAME AS -55141 EXCEPT IT OPERATES AT 12V DC. AND HEATERS OF EACH PAIR OF TUBES ARE CONNECTED IN SERIES.
9/27/44 808H 60430
NOV. 44 ALT. 0

RQ- 55158 JP-1a, JP-2a, JP-3a
NOISE LEVEL MONITOR ASSEMBLY:
CONSISTS OF 6 TYPE -51080 HYDROPHONE ASSEMBLIES, A TYPE -62166 JUNCTION BOX EITHER A TYPE -50205 OR 50206 AUDIO AMPLIFIER, A TYPE -55159 MAGIC EYE INDICATOR, A TYPE -60116 SOUND LEVEL METER UNIT AND A TYPE -55160 CAVITATION INDICATOR.
10/4/44
NOV. 44

RQ- 55158
ATOR.

RQ- 55159 JP-1a, JP-2a, JP-3a
MAGIC EYE INDICATOR
CONSISTS OF 6ES INDICATOR TUBE IN A MOUNT WHICH PERMITS MOUNTING BY AZIMUTH SCALE OF JP TRAINING SHAFT.
10/4/44
OCT. 44

RQ- 55160 JP-1a, JP-2a, JP-3a
CAVITATION INDICATOR
CONSISTS OF AN AUDIO TRANSFORMER RESISTS AND NEON LAMP MOUNTED IN A BOX AND CONNECTED ACROSS RED LIGHT CIRCUIT OF THE AUXILIARY JK AMPLIFIER. OUTPUT OF HYDROPHONE NEAR SCREWS IS CONNECTED TO INPUT OF JK AMPLIFIER BY A SWITCHABLE PLUG.
10/4/44
NOV. 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
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CPN- 55161 RDP PANORAMIC RADIO ADAPTOR INPUT: 115 OR 230/1/55 TO 65. 1.1 AMPS, 115 WATTS. INPUT FREQUENCY 30 MC. SWEEP FREQUENCY: 30 CYCLES PER SECOND; SWEEP WIDTH ± 5 MC.	10/5/44	SAC-3D-110.000 P3-1285	CBM- 55166 MILLISECONDS AT 3700 YARDS. HAS CAPACITY FOR A 50 FT ROLL OF RECORDER PAPER. SAME AS -55166-A EXCEPT FOR TERMINAL PANEL NUMBERING.	NOV. 44		CAN- 55171 *SEE BELOW BEARING & RANGE RECORDER; SUPPLY: 115/1/60. INCLUDES BEARING SCALE READING 190-215-270-315-000-045-090-135-170 DEGREES AND A 0-600 YARD RANGE SCALE. PLYBACK CIRCUIT CONNECTED VIA MAIN SWITCH TO EXTERNAL CONTACT DE- *FOR USE WITH MCA SERIES	12/18/44	
COJ- 55162 OCH TUNING INDICATOR CONSISTS OF A ONE TUBE AMPLIFIER RECTIFIER TUBE AND AN ELECTRON RAY TUBE (TUNING EYE) AS THE INDICATING ELEMENT WITH AN INPUT POTENTIOMETER FOR GAIN CONTROL. INPUT 115V AC OR DC. APPROX. 30 WATTS. FREQ. RANGE 10-35 KC. SINGLE INPUT IM-1D/24/44 182-A	DEC. 44	RA55F236B RE13A1051 CQJ:2699	CBM- 55166-A MFA LOCAL RANGE RECORDER CONTAIN A SANGAMO AND A SIGNAL TIMING MECHANISM. RECORDER HAS A 1500 AND 3750 YARD RANGE SCALE. TIMING MECHANISM PROVIDES FOR FOLLOWING PULSES: 5 MILISECOND AT 600 YARDS, 1 TO 100 MILISECONDS AT 1500 YARDS & 30 TO 200 MILISECONDS AT 11/3/44 1012A	DEC. 44		CAN- 55171 VIDE WHEN GEAR SHIFT LEVER IS IN LONG SCALE POSITION. TRANSMITTING CONTACTS CONNECTED THROUGH MAIN SWITCH TO KEYING CIRCUIT OF AN ECHO RANGING EQUIPMENT WHEN GEAR SHIFT LEVER IS IN SHORT SCALE POSITION. CHART SPEED HAS LONG SCALE SPEED OF .005"/SEC AND SHORT SCALE SPEED OF .0315"/SEC. DWELL OF CLUTCH MAGNET RELAXATION CIRCUIT IS 0.25 TO 0.30 SECONDS.	JAN. 45	
PEADANCE APPROX. 10,000 OHMS AT UNITY PF.		CQJ- 55162	CBM55166-A 3700 YARDS. HAS CAPACITY FOR A 50 FT ROLL OF RECORDER PAPER. SAME AS -55166 EXCEPT FOR TERMINAL PANEL NUMBERING.			CEV- 55172 OBO TAPE RECORDER; OPERATES AT 3/8"/ MINUTE. SUPPLY: 110/1/60. ARMATURE HAS DOUBLE WINDING COIL. RECORDS OUTPUT OF TYPE -60214 DC AMP-LIFIER.	12/19/44	
CARM- 55163 *SEE BELOW PANORAMIC RADIO ADAPTOR INPUT: 1600 KC. SWEEP WIDTH ± 8 KC. POWER INPUT 110/115/120 VOLTS, 10 50-60 CYCLES. LINEAR SAWTOOTH WAVE FORM FOR SWEEP VOLTAGE. DESIGNED FOR OPERATION WITH -46258 OR -46259 RECEIVERS. *FOR USE WITH RDV, RDM	10/28/44	RE9679	CIA- 55167 DBA BEARING INDICATOR PROVIDES VISUAL BEARING AND SENSE INDICATIONS IN SUCH A MANNER THAT THE RADIO BEARING CAN BE READ IN DEGREES ON THE AZIMUTH SCALE.	NOV. 44		12/19/44		
CPN- 55164 REC PANORAMIC RADIO ADAPTOR INPUT FREQUENCY: 30 MC. SWEEP WIDTH ± 3 MC. INPUT: 115 OR 230V. 10. 50 TO 70 CPS. SAME AS -55155 EXCEPT HAS DIFFERENT IF COILS TO PERMIT OPERATION WITH AN/SPR-2.	10/28/44		CVF- 55168 LU-2 LAMP INDICATOR UNIT; CONSISTS OF A 6 VOLT BAYONET TYPE LAMP, SOCKET, LAMP SHIELD AN AN CONNECTOR TO FIT TRANSMITTING ANTENNA OUTPUT OF MODEL ABA-1.	NOV. 44		CTF- 55173 CXGT VISUAL RECORDER; SUPPLY: 115/1/60. GIVES A MARK SWEEP OF 180° OR 270°. INCLUDES SYNCHRONOUS MOTOR WHICH DRIVES ROLLER AT 900 RPM. RECORDING MADE ON UNTREATED PAPER APPROXIMATELY 8" WIDE AT RATE OF 6" PER MINUTES (150 LINES PER INCH). MARKING ON PAPER	JAN. 45	
CBM- 55165 MFA INDICATOR RECORDER INDICATES ON DIAL (0-700 AND 0-2000 FATHOMS) DEPTH OF WATER UNDER SUBMARINE AND ON A CALIBRATED CHART (0-95 FATHOMS AND MULTIPLIED BY 20 WHEN MARK APPEARS AUTOMATICALLY ON MARGIN OF CHART) SHOWS GRAPHICALLY THE CONTOUR OF THE SEA BOTTOM.	11/1/44	8388	CFH- 55169 DBM BEARING INDICATOR; SUPPLY: 115/1/60. CONSISTS OF A VIDEO AMPLIFIER, 2 POWER SUPPLIES, 5" CR TUBE, BEAM MODULATOR CIRCUIT, AVC CIRCUIT, TRUE BEARING INDICATOR. RECEIVES SIGNALS FROM A RECEIVER SUCH AS AN/SPR-1 OR AN/SPR-2. AMPLIFIES THEM AND PRESENTS THEM AS A PATTERN ON CR TUBE. ALSO PROVIDES 110V DC TO ANTENNA DRIVE MOTORS AND ANTENNA RELAYS.	DEC. 44		CTF- 55174 PQ VISUAL RECORDER SUPPLY: 115/1/60. GIVES A MARK SWEEP OF 180° OR 270°. INCLUDES SYNCHRONOUS MOTOR WHICH DRIVES ROLLER AT 900 RPM AND AMPLIFIER, WHICH AMPLIFIES OUTPUT VOLTAGES BETWEEN 10 VOLTS AND 150 VOLTS OF MODELS RDC, RDC OR RDM PANORAMIC SEARCH	JAN. 45	
TOM. ENERGIZED ONCE EACH SECOND A TYPE -10400 VISUAL AUDIBLE ALARM (NOT INCLUDED) WHEN DEPTH IS 100 TO 200 FT AND BETWEEN 40 TO 100 FT. INPUT 115/1/60 AT 75 WATTS, AND 5 WATTS AT 100V DC AND 6 WATTS AT 300V DC FOR ALARM CONTROL CIRCUITS.		CBM- 55165	CBM- 55170 NMC-2 INDICATOR-AMPLIFIER UNIT; CONSISTS OF ONE CBM-20059-D RECTIFIER POWER UNIT, ONE CBM-46082-B RECEIVER AMPLIFIER, AND ONE CBM-55113-A INDICATOR-RECORDER.			CTF- 55174 RECEIVERS. OUTPUT VOLTAGES RANGE BETWEEN 30 AND 450 VOLTS. SIMILAR TO CTF-50173 WITH CTF-50215 AMPLIFIER ADDED.		
CBM- 55166 MFA REMOTE RANGE RECORDER CONTAINS A SANGAMO RECORDER AND A SIGNAL TIMING MECHANISM. RECORDER HAS A 1500 AND 3750 YARD RANGE SCALE. TIMING MECHANISM PROVIDES FOR FOLLOWING PULSES: 5 MILLISECONDS AT 600 YARDS, 10 TO 100 MILLISECONDS AT 1500 YARDS AND 30 TO 200	11/3/44	60393 ALT 0	11/30/44	843-C	60457	CTF- 55174-A PG-1 VISUAL RECORDER SUPPLY: 115/1/60. GIVES A MARK SWEEP OF 180° OR 270°. INCLUDES SYNCHRONOUS MOTOR WHICH DRIVES ROLLER AT 900 RPM AND AMPLIFIER WHICH AMPLIFIES OUTPUT VOLTAGES BETWEEN 10 VOLTS & 150 VOLTS MODELS RDC, RDC OR RDM PANORAMIC SEARCH RECEIV-	JAN. 45	
DEC. 44						3/5/45	RA128	APR. 45

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CTF-55174-A		ERS. OUTPUT VOLTAGES RANGE BETWEEN 30 & 450 VOLTS. SAME AS TYPE -55174 VISUAL RECORDER EXCEPT FOR MINOR MODIFICATIONS SUCH AS CHANGE IN RUNNERS OF CHASSIS TO BRASS, NEW SCREWS, FLANGE ADDED TO COUPLING BETWEEN MOTOR & GEAR BOX, 3 POSITION SWITCH INSTEAD OF 5, DIFFERENCE IN VALUE OF 1 RESISTOR.	CHL- 55178		TENTH DIVISION TWICE AS LONG AS INTERMEDIATE MARKS. LONGEST MARKS NUMBERED FROM "0" TO "100" IN STEPS TEN FROM LEFT. HAS INTENSITY CONTROL, FOCUS CONTROL, ON-OFF SWITCH, FUSES AND PILOT LIGHTS. CONTAINED IN CABINET. SHOCK MOUNTED.	CW- 55183	QDA	RECORDER AND CONTROL CONSOLE CONSISTS OF A SLOPING FRONT CONSOLE MOUNTED ON A STAND. HOUSES A SINE ANGLE DEPTH RECORDER WITH CONTROLS, CONTROL FOR TILTING PROJECTOR, AN OSCILLOSCOPE TO GIVE DEPTH DEVIATION INDICATION, AND MISCELLANEOUS INDICATORS AND CONTROLS. 4/28/45 D-171075 BX-158700 MAY 45 ISSUE 1
CFE- 55175	DAS-4	INDICATOR GENERATES TIMING INTERVALS OF DIFFERENT DURATIONS THROUGH FREQUENCY DIVISION. INCLUDES CATHODE RAY OSCILLOGRAPH WHICH RECEIVES THESE SIGNALS AND SIGNALS FROM RECEIVER; INDICATES TIME DIFFERENCE BETWEEN THE TWO INPUT 115/1/60. 1.74 AMPS. 1/19/45 300.511 MAR. 45	RA- 55179	DAJ-a	AUTOMATIC BEARING INDICATOR: HAS 5" CATHODE RAY TUBE. INCLUDES 110/1/60 MOTOR FOR ROTATING GONIOMETER AND MAGNETIC FIELD. SIMILAR TO -55146 EXCEPT MOTOR, MOTOR CASTING AND MOUNTING FEET ARE SAME AS TYPE -55084. 3/9/45 MAR. 45	CW- 55184	QDA	REMOTE DEPTH AND RANGE RECORDER: CONSISTS OF A BULKHEAD MOUNTED WEATHERPROOF HOUSING CONTAINING 2 SYNCHRO-DRIVEN DRUM TYPE DIALS WHICH REPEAT INFORMATION ON "TARGET DEPTH" AND "HORIZONTAL RANGE". DEPTH DIAL CALIBRATED IN INCREMENTS OF 10 FT. FROM 0 TO 4/28/45 D-171639 BX-288462 MAY 45 ISSUE 0
CFE- 55175		180 WATTS. SIMILAR TO TYPE -55118-A; MECHANICALLY INTERCHANGEABLE BUT NOT ELECTRICALLY.	CDI- 55180	NXsr-86315	TUNING INDICATOR POWER INPUT: 100 TO 130V AC OR DC; 0.2 AMPS AT 115V. FREQUENCY RANGE: 7 KC TO 70 KC. CONSISTS OF A TWO-STAGE AMPLIFIER, RECTIFIER TUBE, & AN ELECTRON RAY TUBE (TUNING EYE) AS THE INDICATING ELEMENT WITH AN INPUT POTENTIOMETER FOR 4/19/45 283AJ MAY 45	CW- 55184		1500 FT. & HORIZONTAL RANGE DIAL CALIBRATED IN INCREMENTS OF 25 YDS FROM 0 TO 4000 YARDS. HAS 3 F SYNCHROS TO DRIVE DIALS. INCLUDES VARIABLE DIAL ILLUMINATION OF RED LIGHT TYPE WITH LAMPS WHICH INDICATE WHEN THE QDA AND ECHO TIME RECORDERS ARE FUNCTIONING.
CBM- 55176	DBM-1	BEARING INDICATOR: RECEIVES PULSES, CW OR MCW SIGNALS FROM RECEIVER AND CONVERTS THEM TO BEARING INFORMATION IN FORM OF A PRESENTATION OF ANTENNA PATTERN ON THE CATHODE RAY TUBE. HAS RELATIVE AND TRUE BEARING INDICATOR DIAL. INPUT 100 TO 130 VOLTS, 2/1/45 1038 SK-1002-A MAR. 45 ALT 0	CDI- 55180		GAIN CONTROL. GAIN CONTROL ON FRONT PANEL IS SET TO CLOSE INDICATOR SHADOW TO FINE LINE WITH EQUIPMENT TRAINED AND TUNED FOR MAXIMUM.	CWF- 55185	RBU-2	16A12(RE) PANORAMIC ADAPTER INPUT: 115 OR 230/1/60, 0.5 AMPS, 60 WATTS (AT 115V). INPUT FREQUENCY 400 KC. SWEEP WIDTH ± 25 KC. SIMILAR TO TYPE -55088-A EXCEPT CASE IS WIDER, TWO HANDLES ON FRONT PANEL HAVE BEEN ADDED, AND SLIGHT CHANGES IN ELECTRICAL COMPONENTS 4/28/45 MAY 45
CBM- 55176		60 CYCLES 350 WATTS MAX.	CAN- 55181	NXsr-93139	RE9303A RANGE CORDER MODIFIED INPUT: 115/1/60, APPROXIMATELY 75 WATTS. HAS RESTRICTED RANGE OF 600 YARDS. FLYBACK CAUSED BY A FIXED CONTACT AT MAXIMUM EXCURSION OF STYLUS CARRIAGE. HAS VARIABLE KEYING; 3-30 MILLISECONDS, ADJUSTED INTERNALLY. MOUNTING AND OUTLINE 4/19/45 MAY 45	CWF- 55185		HAVE BEEN MADE.
RQ- 55177	QFM	BEARING RECORDER: SUPPLY: 115/1/60. BEARING SCALE READS 190-215-270-315-000-045-090-135-170 DEGREES. FLYBACK CIRCUIT CONNECTED VIA MAIN SWITCH TO EXTERNAL CONTACT DEVICE WHEN GEAR SHIFT LEVER IS ON LONG SCALE POSITION. SIMILAR TO -55171 EXCEPT MOD: 2/23/45 MAR. 45	CAN- 55181		DIMENSIONS ARE IDENTICAL TO TYPE CAN-55171, BUT UNIT IS NOT INTERCHANGEABLE WITH IT.	CWF- 55186	RBU-2	16A12(RE) PANORAMIC ADAPTER INPUT: 115 OR 230/1/60, 0.56 AMPS, 60 WATTS (AT 115V). INPUT FREQUENCY 400 KC. SWEEP WIDTH ± 50 KC. SIMILAR TO TYPE -55089-A EXCEPT CASE IS WIDER, TWO HANDLES ON FRONT PANEL HAVE BEEN ADDED, AND SLIGHT CHANGES IN ELECTRICAL COMPONENTS 4/28/45 MAY 45
RQ- 55177		FIELD TO OPERATE WITH THE TYPE -50164 AMPLIFIER AND ELIMINATION OF RANGE SCALE.	CPN- 55182	REJ	16A22(RE) PANORAMIC RADIO ADAPTER INPUT: 115V, 1 PHASE, 60 CYCLES. INPUT FREQUENCY: 30 MC. MAXIMUM SWEEP WIDTH 6 MC TYPE "A" ADAPTER. RESOLUTION, AT MAXIMUM SWEEP WIDTH, BETWEEN 180 KC AND 90 KC. BAND PASS AMPLIFYING STAGE. PEAK 4/21/45 CPN:P4-1746 MAY 45 REV 0	CWF- 55186		HAVE BEEN MADE.
CHL- 55178	RDH	RE 13A S55B DISPLAY UNIT: ADDENDUM #1 INPUT: 115 ± 10%/1/55 TO 65. UNIT INCLUDES SCPT CATHODE RAY TUBE WITH A SCALE 1 3/4 TIMES THE MINIMUM CATHODE RAY TUBE RADIUS IN LENGTH & DIVIDED INTO 100 DIVISIONS WITH EVERY FIFTH DIVISION MARKED SLIGHTLY LONGER & EVERY 3/1/45 MAR. 45	CPN- 55182		FREQUENCY OF 30 MC. SENSITIVELY NOT LESS THAN 1/4" DEFLECTION FOR A 1000 MICROVOLT SIGNAL FREQUENCY OF 30 MC APPLIED WITHOUT ISOLATING RESISTOR & CAPACITOR. MOUNTS IN TYPE -10528 MOUNTING RACK. CANCELLED	CWF- 55187	RBW-3	16A11(RE) PANORAMIC ADAPTER INPUT: 115 OR 230/1/60, 0.56 AMPS, 60 WATTS (AT 115V). INPUT FREQUENCY 5.25 MC. SWEEP WIDTH ± 500 KC. SIMILAR TO TYPE -55090-8 EXCEPT CASE IS WIDER, TWO HANDLES ON FRONT PANEL HAVE BEEN ADDED, AND SLIGHT CHANGES IN ELECTRICAL COM- 4/28/45 MAY 45

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CFW- 55187

PONENTS HAVE BEEN MADE.

CPN- 55188 REJ 16A22(RE)
 PANORAMIC RADIO ADAPTER
 INPUT: 115V, 1 PHASE, 60 CYCLES. INPUT
 FREQUENCY 30 MC. MAXIMUM SWEEP WIDTH 10
 MC. RESOLUTION, AT MAXIMUM SWEEP WIDTH,
 BETWEEN 180 KC AND 90 KC. BAND PASS AMP-
 LIFYING STAGE. PEAK FREQUENCIES: 27.5
 AND 32.5 MC. SENSITIVITY NOT LESS THAN
 5/3/45 CPN:P4-1746
 JUN. 45 REV. 0

CPN- 55188
 1/4" DEFLECTION FOR A 1000 MICROVOLT
 SIGNAL FREQUENCY OF 30 MC APPLIED WITH-
 OUT ISOLATING RESISTOR AND CAPACITOR.
 MOUNTS IN TYPE -10528 MOUNTING RACK.

CRY- 55189 QFN
 INDICATOR UNIT
 ON STUDENT'S SIDE HAS STANDARD COMPASS
 AND "BUG" REPEATER WITH LEVER TYPE
 TRAINING HANDLE. ON INSTRUCTOR'S SIDE
 HAS PROBLEM INDICATOR SHOWING THE RELA-
 TIVE POSITIONS OF OWN SHIP WITH TARGET
 VESSEL. INCLUDES HAND TRAINING WHEEL FOR
 5/8/45 MI-16807 W-308590
 JUN. 45 SUB 0

CRY- 55189
 TRAINING THE CURSOR TO READ TRUE BEAR-
 INGS OF THE TARGETS FROM OWN SHIP. IN-
 CLUDES VARIOUS SWITCHES TO SET UP PRO-
 BLEMS. A MOTOR DRIVES BALL SALVER ME-
 CHANISM. INCLUDES BUILT-IN LOUDSPEAKER.

CR- 55190 QLA
 INDICATOR UNIT
 CONTAINS HIGH VOLTAGE SUPPLY FOR OPERA-
 TION FROM 115/1/60. NECESSARY SWEEP CIR-
 CUICTS AND INTENSITY AMPLIFIER. REGULATED
 AND UNREGULATED SWEEP VOLTAGES ARE OB-
 TAINED FROM RECEIVED UNIT. CONTAINS 7"
 CATHODE RAY TUBE (78P7) WITH LONG PER-
 5/24/45 CW:ASXX-35091
 JUN. 45 ISS. 2

CR- 55190
 SISTENCE SCREEN.

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