

*Class 46—Receiving Units and Converters*

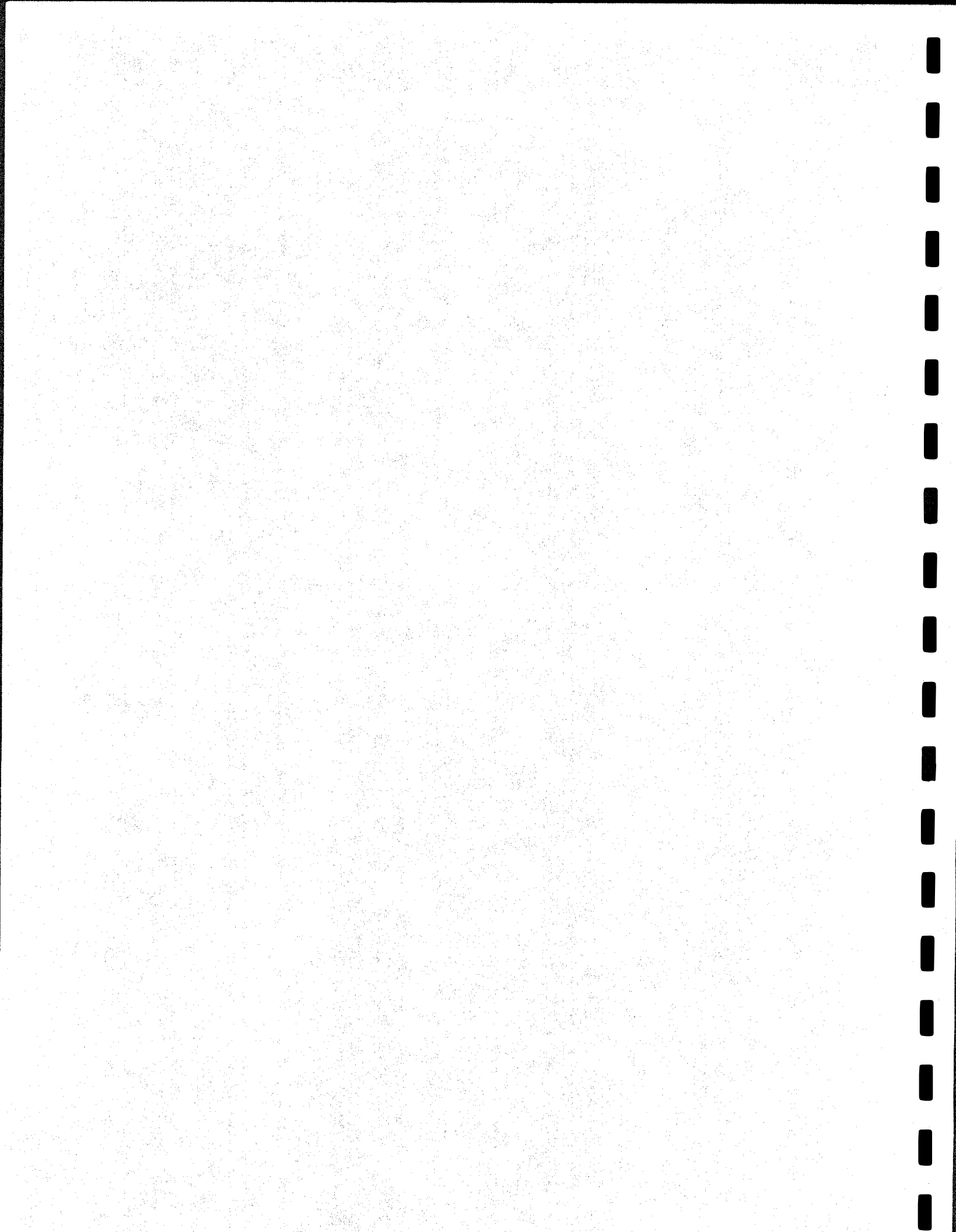
CLASS 46

RADIO RECEIVER UNITS AND  
CONVERTERS (RF TO IF)

INCLUDES: RADIO & RADAR RECEIVERS,  
RESPONDERS, RECEIVER-INDICATOR

CONFIDENTIAL

NAVSHIPS 900,109



Class 46—Receiver Units and Converters

3.46-1

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 46000	RU-1		CAY 46008	GK-1	XA-8300	CG-46015	RAF	XA-8454
RECEIVER UNIT.			RECEIVER UNIT			HETERODYNE OSCILLATOR UNIT		
12/21/31			5/17/32		P-7704100 &	12/9/32		T-7659303
NOV. 41			NOV. 41		M-7403779	NOV. 41		
CBA 46001	RU-1		CAY 46009	GK-1	XA-8300	CG-46016	RAF	
CONTROL UNIT			RECEIVER UNIT			KEYING UNIT		
FOR REMOTE TUNING.			DIRECTION FINDER, 100-1,000 KILOCYCLES.			TUBES: FIVE - 38045. SEVEN - 38024, TWO - 38027.		
12/21/31			5/17/32		T-7603077 &	12/9/32		T-7659303
NOV. 41			NOV. 41		P-7703288	NOV. 41		
CBA 46002	RU-1		CKD 46010	DN		CG-46017	RAF	
MOUNTING			RECEIVER UNIT			POWER UNIT		
SHOCK-PROOF.			DIRECTION FINDER. 280-1,500 KILOCYCLES.			110 VOLTS - 60 CYCLES (STEP DOWN TRANSFORMER FOR 220 V.) TUBES: FIVE - 38080, THREE - 38274.		
12/21/31			7/6/32			12/9/32		T-7659303
NOV. 41			NOV. 41			NOV. 41		
RW-46003	GL		CBY 46011	RU-2		CRV 46018	RAE	
RECEIVER UNIT			BASE			OSCILLATOR UNIT. OSCILLATOR RANGE - 1,000 - 2,500 CYCLES. TUBES: FOUR - 38027, ONE - 38024. (IN RAE-2 CLASSIFICATION CHANGED TO CRV-35002).		
62-60 MEGACYCLES.			RECEIVER MOUNTING. FOR 46006 & 46012, 46048 ETC UNITS.					
3/1/32			11/7/32			12/13/32	EA-37A1	
NOV. 41			NOV. 41			NOV. 41		
CAY 46004	RO-3	XA-8218	CBY 46012	RU-2		CRV 46019	RAE	
RECEIVER UNIT			RECEIVER UNIT - AIRCRAFT.			POWER UNIT		
15 - 1,000 KILOCYCLES.			224-12,500 KILOCYCLES.			SUPPLIES POWER TO CRV-50008 AND A PART OF CRV-46018. TUBES: TWO - 38180, ONE - 38274. (FOR REPLACEMENT USE CRV-20071.)		
3/18/32		7404356	11/8/32			12/13/32	ES-6A2	
NOV. 41			NOV. 41			NOV. 41		
CAY 46005	RO-3	XA-8218	CBY 46012-A	RU-2&		CRV 46020	RAE	
RECEIVER UNIT			RECEIVER UNIT - AIRCRAFT			POWER UNIT		
300-22,000 KILOCYCLES.			BEACON. 200 TO 400 KC, CW; 2 MICROVOLT SENSITIVITY; 1CW: 10 MICROVOLT SENSITIVITY.			SUPPLIES POWER TO A PART OF CRV-46018. TUBES: TWO - 38180. (FOR REPLACEMENT USE CRV-20072.)		
3/18/32		7404351	NOV. 41			12/13/32	ES-6A3	
NOV. 41						NOV. 41		
CBY 46006	RU-2		CNA 46013	RAD-2		CRV 46021	RAE	
RECEIVER UNIT			RECEIVER UNIT			ANTENNA COUPLING UNIT		
250-15,000 KILOCYCLES.			RANGE: 250-33,310 KCS.			COUPLES ANTENNA TRANSMISSION LINE TO TYPE CRV-46023 TUNER UNIT.		
5/11/32			11/15/32	SW-5		12/13/32	EA-40A1	
NOV. 41			NOV. 41			NOV. 41		
CAY 46007	GK-1	XA-8300	CG-46014	RAF	XA-8454	CRV 46022	RAE	
RECEIVER UNIT			RECEIVER UNIT.			VOLTAGE REGULATOR		
15-1,000 KILOCYCLES.			3,750-25,000 KILOCYCLES - TUNED RADIO FREQUENCY TYPE.			INPUT: 220 VOLTS - 60 CYCLES. SUPPLIES POWER TO CRV-46019, CRV-46020 AND CRV-46025. TUBES: EIGHT - 38286. (IN RAE-2 CLASSIFICATION CHANGED TO CRV-20073.)		
5/17/32		P-7704095 &	12/9/32		T-7659303	12/13/32	EA-35A1	
NOV. 41		M-7403543	NOV. 41			NOV. 41		
			ASSIGNED			ASSIGNED		
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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3.46-2

Class 46—Receiver Units and Converters

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
CRY 46023 RAE RECEIVER UNIT (TUNER). 1,000-30,000 KILOCYCLES. TUBES: TWO 38058, ONE - 38024, ONE - 38064.	12/20/32 NOV. 41		CRY 46031 DO RECEIVER UNIT - DC. 100-1,500 KILOCYCLES. TUBES: TWO - 38036, TWO - 38037, FOUR - 38039.	8/25/33 NOV. 41		CRY 46035-B RA3-2a RECEIVER TUNER UNIT 1,000 - 30,000 KILOCYCLES.	1/10/35 NOV. 41	
CRY 46024 RAE AMPLIFIER UNIT (I.F.-A.F.) TUBES: TWO - 38035, ONE - 38024, ONE - 38064.	12/20/32 NOV. 41		CRY 46031-A * SEE BELOW RECEIVER UNIT - A.C.			CRY 46036 RU-3 RECEIVER UNIT		
			* DO-1/DO-2/DO-3 8/25/33 NOV. 41				6/14/34 NOV. 41	
CRY 46025 RAE POWER UNIT SUPPLIES POWER TO CRY-46023 AND CRY-46024. TUBES: TWO - 38180, ONE - 38274.	12/20/32 NOV. 41		CRY 46032 DO, 1, 2, 3 OSCILLATOR COUPLER - I.F. CONSISTS OF .....OHM RESISTOR AND..... ....MMF CAPACITOR.			CW-46037 UB RECEIVER UNIT 27 - 40 MEGACYCLES.		
			8/28/33 NOV. 41	K-814647			8/1/34 NOV. 41	
CRY 46026 RAE AMPLIFIER UNIT (CANCELLED).	12/20/32 NOV. 41		CN-46033 RG-3 RECEIVER UNIT 1,000 - 20,000 KILOCYCLES.			CRY 46038 DP 1, 2, 3. RECEIVER UNIT 100 - 1,500 KILOCYCLES.		
				(2511)			12/14/34 NOV. 41	
CAY 46027 GK-1 FILTER UNIT	12/20/32 NOV. 41		CRY 46034 RAA-1 RECEIVER TUNER UNIT 10 - 1,000 KILOCYCLES.			CRY 46039 DQ RECEIVER UNIT 100 - 1,500 KILOCYCLES.		
CRY 46028 GK-1 RECEIVER UNIT 300-22,000 KILOCYCLES. WEATHER REPORT SERVICE.	12/20/32 NOV. 41		CRY 46034-A RAA-3 RECEIVER TUNER UNIT 10 TO 1,000 KILOCYCLES.			CRY 46040 * SEE BELOW RECEIVER UNIT 100 - 1500 KC.		
	2/16/33 NOV. 41		11/18/35 NOV. 41			* DP-4, DP-5, DP-6 & DQ-1. 3/27/36 NOV. 41		
CRR 46029 CXF RECEIVER UNIT 200-1500 KILOCYCLES. TUBES: FIVE - 38039, THREE - 38036, ONE - 38038.	3/29/33 NOV. 41		CRY 46035 RA3-1 RECEIVER TUNER UNIT 1,000 - 30,000 KILOCYCLES.			CRY 46040-A DP-9&DP-10 RADIO RECEIVER 100 TO 1500 KC. ANTENNA GROUNDING RELAY OPERATES FROM 6 (5.4 TO 7.5) VOLTS AC, 60 CYCLES.		
CNA 46030 RAD-3 RECEIVER UNIT 40-75 MEGACYCLES. INDUCTANCE SYSTEM INCLUDED IN RECEIVER UNIT.	8/21/33 NOV. 41		CRY 46035-A RA3-2 RECEIVER TUNER UNIT 1,000 - 30,000 KILOCYCLES.	1/10/35 NOV. 41		CRY 46041 RU-3A RECEIVER UNIT	2/6/35 NOV. 41	K:856143 REV 0

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CHS 46042	RAC & RAG-1		CBY 46048-B	RU-6		CRV 46053	* SEE BELOW	
RECEIVER UNIT.			RECEIVER UNIT			RECEIVER UNIT		
15 - 600 KILOCYCLES.			SAME AS 46048A EXCEPT SLIGHT MODIFICATION OF RESISTOR & CAPACITORS IN CIRCUIT			0.3 TO 23 MEGACYCLES. SAME CHASSIS AS 46045.		
2/19/35			5/21/37			* TBR, TBR-1 & XTBR.		
NOV. 41			NOV. 41			8/21/36		
						NOV. 41		
CHS 46043	RAH & RAH-1		CBY 46048-C	* SEE BELOW		CKD 46054	DR	
RECEIVER UNIT			RECEIVER UNIT.			RECEIVER UNIT & LOOP		
0.3 - 23 MEGACYCLES.			SAME AS 46048B EXCEPT THAT THE POWER AMPLIFIER RESISTOR HAS BEEN CHANGED TO 1 MEGOHM.			DRIVE. 200 TO 18,000 KC. (SIMILAR TO CXM RECEIVER EXCEPT FREQUENCY RANGE).		
2/19/35			* RU-7, 8, 9 & 10.					
NOV. 41			2/25/39					
			NOV. 41					
CRV 46044	RAK		CBY 46048D	RV-11,12, 18&19		CRR 46055	CXT	
RECEIVER UNIT			SAME AS 46048C EXCEPT THAT RESISTOR NO. 145 HAS BEEN CHANGED FROM 1105 OHMS TAPPED AT 105 OHMS TO 1140 OHMS, TAPPED AT 140 OHMS; (OBTAINED FROM NOTE IN PAGE 7 OF RU-11 & RU-12 INSTRUCTOR BOOK)			RECEIVER UNIT		
15 - 600 KILOCYCLES. 74 LBS.						FREQUENCY RANGE 150 TO 1500/1800 TO 15000 KC BY SWITCHING. POWER FROM CRR-21275 DYNAMOTOR.		
4/1/35			4/8/42					
NOV. 41			MAY 43			7/10/37	268	
						NOV. 41		
CRV 46045	RAL		CH-46049	RAM		RA 46056	XAD	
RECEIVER UNIT			RF TUNING UNIT			RECEIVER ADAPTER		
0.3 - 23 MEGACYCLES. 69 LBS.			THE OUTER DIAL INDICATES THE POSITION OF THE MAIN TUNING CAPACITOR, THE INNER ONE THAT OF THE BAND SWITCH - 4 POSITIONS. RANGE: 200 - 1500 KC.			FOR USE WITH RU SERIES.		
4/1/35			4/24/36					
NOV. 41			NOV. 41			10/4/37		
						NOV. 41		
CBY 46046	RAJ		CH-46050	RAM		CRR 46057	GQ	
RECEIVER UNIT			RF TUNING UNIT			RECEIVER UNIT		
224 - 13,575 KILOCYCLES.			SAME AS CH-46049 EXCEPT BAND SWITCH HAS 6 POSITIONS. RANGE: 1500 - 13,575 KC.			FREQUENCY RANGE 150 TO 1500/1800 TO 15,000 WITH PROVISIONS FOR HOMING ON FREQUENCIES BETWEEN 150 TO 1500 KC USING CRR-69023 LOOP. POWER FROM --- 21282 DYNAMOTOR.		
4/23/35			NDS-43068					
NOV. 41			4/24/36			10/30/37		
			NOV. 41			NOV. 41		
CH-46047	CXL		CBY 46051	RU-4a		CRR 46058	GQ	
RECEIVER UNIT			RECEIVER UNIT			RECEIVER MOUNTING BASE		
30 - 60 MEGACYCLES.			FREQ: 224 TO 13,575 KC.			FOR USE WITH CRR-46057 RECEIVER.		
6/17/35			7/2/36					
NOV. 41			NOV. 41			10/30/37		
						NOV. 41		
CBY 46048	RU-4		CBY 46051-A	RU-5a		CBM 46059	NN-8	55RE46J1043A
RECEIVER UNIT			RECEIVER UNIT			RECEIVER AMPLIFIER		
224 - 13,575 KC.			FREQ - 224 TO 13,575 KC.			USES -20059 RECTIFIER POWER UNIT.		
3/5/36			12/24/36					
NOV. 41			NOV. 41			11/15/37	574-L	
						NOV. 41		
CBY 46048-A	RU-5		CRR 46052	DS	RW 13A 136	CBM 46060	NN-9	55RE46J1040A
RECEIVER UNIT			RECEIVER			RECEIVER AMPLIFIER		
			FREQ. 200 TO 20,000 KC.			USES ---20060 RECTIFIER POWER UNIT.		
12/14/36			8/4/36					
NOV. 41			NOV. 41			11/15/37	721A	
						NOV. 41		

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CBM 46061	QC-6 & QC-6a	55RE46J1041A	CBM 46061-F	GEN SONAR USE		CRY 46069	TBS	
RECEIVER AMPLIFIER FREQUENCY RANGE: 13 TO 37 KC. POWER FROM CBM-20062 RECTIFIER POWER UNIT. SIMILAR TO TYPE -46208.			RECEIVER-AMPLIFIER SAME AS TYPE -46061-B EXCEPT IS MODIFIED FOR TIME VARIATION GAIN BY ADDITION OF SINGLE ON-OFF CONTROL SWITCH, RELAY FOR SUPPLYING DECAYING BIAS VOLTAGE FROM POLARIZING VOLTAGE, & A DECOUPLING NETWORK FOR FEEDING VOLTAGE TO THE			RADIO RECEIVER: 60 TO 80 MC. 2 WATTS AUDIO OUTPUT - 600 OHMS OUTPUT IMPEDANCE HAS INTEGRAL RECTIFIER UNIT FOR 115 VOLT, 60 CYCLE SUPPLY, 1 AMP 110 WATTS.		
11/17/37	755B		10/7/44	7558s		8/1/38	MI-8616	T-620077 REV 2
AUG. 43			DEC. 44	755-7000		OCT. 42		
CBM 46061-A	JK-3/QC-7	55RE46J1042A	CBM 46061-F			CRV 46068-A	TBS-5	
RECEIVER AMPLIFIER SAME AS 46061 EXCEPT INCLUDES CABINET.			2 IF STAGES. (SEE CONTRACT NXsr-55646)			RADIO RECEIVER: 60 TO 80 MC. 2 WATTS AUDIO OUTPUT-600 OHMS OUTPUT IMPEDANCE. HAS INTEGRAL RECTIFIER UNIT FOR 115 V, SINGLE PHASE, 60 CY SUPPLY, 1 AMP, 110 WATTS. SAME AS BASIC NUMBER EXCEPT USES 6J5-GT/C TUBE INSTEAD OF 6J5G.		
1/3/38	755-A	SK-3890				3/9/43	CRY:MI-8732	SEPT 43
NOV. 41								
CBM 46061B	QCS,QCT	55RE46J1054A	CBK 46062	GENERAL USE	RA46F234A & ANTENNA COUPLING LINE UNIT * SEE BELOW	CRV 46068-B	TBS-8	
RECEIVER-AMPLIFIER; FREQ RANGE 13 TO 37 KC. INPUT 6.3 AC OR DC/ 2600C/280 DC VOLTS, 3.3/.0036/.03 AMPS. OPERATES FROM TYPE -20062, -20062A OR -20062B RECTIFIER POWER UNIT. SAME AS -46061 EXCEPT THAT THE ALUMINUM FRONT PANEL AND ALUMINUM SHIELD HAVE BEEN			* MODIFIED BY EN 8/144-38/78/D1.			RADIO RECEIVER 60 TO 80 MC. 2 WATTS AUDIO OUTPUT -600 OHMS OUTPUT IMPEDANCE. HAS INTEGRAL RECTIFIER UNIT FOR 115V, SINGLE PHASE, 60 CYCLE SUPPLY, 1 AMP., 110 WATTS. SAME AS -46068-A EXCEPT IT HAS ADDITIONAL TUBE CLAMPS AND HAS ADDED STENCILLING		
10/8/42	7558S	CBM:60276 ALT 0	2/18/38			10/13/44	MI-8732	T-620077
MAR. 44			NOV. 41			FEB. 45		REV 6
		CBA46061B	RW-46063	DT				CRV46069-B
			RECEIVER UNIT 2000 TO 30,000 KC.			ON CHASSIS ADJACENT TO SOCKET FOR TUBE TO INDICATE CORRECT POSITION FOR INSERTION OF TUBE MECHANICALLY & ELECTRICALLY INTERCHANGEABLE WITH -46068-A.		
		CHANGED TO FERROUS CONSTRUCTION.	4/19/38	CNA:HRO				
			NOV. 41	MODIFIED				
CBM 46061-C	GEN SONAR USE		CBY 46064	RU-8		CBM 46069	NM-10	
RECEIVER-AMPLIFIER SAME AS TYPE -46061 EXCEPT IS MODIFIED FOR TIME VARIATION GAIN BY ADDITION OF SINGLE ON-OFF CONTROL SWITCH RELAY FOR SUPPLYING DECAYING BIAS VOLTAGE FROM POLARIZING VOLTAGE, AND A DECOUPLING NETWORK FOR FEEDING VOLTAGE TO THE 2 IF			RECEIVER USES COIL SET -4712R TO COVER FREQUENCY RANGE 200 TO 400/530 TO 5600 KC. SAME AS TYPE -46051A EXCEPT HAS A GANG TUNING CAPACITOR OF EXTENDED RANGE TO PRODUCE A 2 TO 1 TUNING RANGE FOR SINGLE RANGE COILS.			RECEIVER-AMPLIFIER 17 TO 19 KC USES TYPE -20060A POWER SUPPLY-SIMILAR TO 46060 - DIFFERING IN COMPONENTS AND METHOD OF MOUNTING.		
10/1/44	755B		4/26/38			8/9/38	574M	SK:3993A
DEC. 44	755-7000		NOV. 41			NOV. 41		
		CBM46061-C	CRR 46065	CXS		CDE 46070	CXX	
		STAGES. (SEE CONTRACT NXsr-55646)	RECEIVER 15 TO 1500 KC - 8 BANDS; FOR NON-DIRECTIONAL, UNILATERAL OR BILATERAL LOOP RECEPTION, ON MODULATED OR PURE CW; VARIABLE BAND WIDTH CONTROL; 600 OHMS AUDIO OUTPUT. 12 TO 14 VOLTS DC OPERATION.			RECEIVER FREQUENCY RANGE 88 TO 100 MC. POWER SUPPLY 12 VOLTS, 0.6 A. DC., 200 VOLTS, 4 MA DC.		
			7/11/38		#E13019	8/27/38		
			NOV. 41			NOV. 41		
CBM 46061-D	GEN SONAR USE		CRR 46066	CXS		CDE 46071	CXX	
RECEIVER-AMPLIFIER SAME AS TYPE -46061-A EXCEPT IS MODIFIED FOR TIME VARIATION GAIN BY ADDITION OF SINGLE ON-OFF CONTROL SWITCH RELAY FOR SUPPLYING DECAYING BIAS VOLTAGE FROM POLARIZING VOLTAGE, & A DECOUPLING NETWORK FOR FEEDING VOLTAGE TO THE			RECEIVER BASE FOR USE WITH TYPE -46065 RECEIVER.			RECEIVER MOUNTING BASE		
10/7/44	755-A		7/11/38			8/27/38	221	SEE ABOVE
DEC. 44	755-7000		NOV. 41			NOV. 41		
		CBM46061-D	RA-46067	XAE	RA68F202	CNA 46072	RAO	
		2 IF STAGES. (SEE CONTRACT NXsr-55646).	RECEIVER AMPLIFIER USES TYPE RA-20075 POWER SUPPLY.			RECEIVER UNIT 540 KC TO 30 MC.HAS INTEGRAL RECTIFIER UNIT FOR OPERATION FROM 110 TO 115 VOLTS 50 TO 60 CYCLES; FOR RACK MOUNTING.		
			7/28/38			9/9/38		
			NOV. 41			NOV. 41		
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46073 NJ AMPLIFIER	1/7/39 NOV. 41		CCT 46077 RBM.-1.-2 HIGH FREQUENCY RECEIVER: FREQUENCY RANGE 2000 TO 18,100 KC POWER SUPPLY 205 VOLTS DC AT 0.07 AMP 12 VOLTS DC/25 TO 60 CYCLES AC. 2.0 AMPS	7/26/39 AUG. 42	CAY:T-7608628 SUB 0	CNA 46081 RAM RECEIVER UNIT CONVERSION FREQUENCY 456 KC FOR OPER- ATION FROM 6.2 V. 3.4 AMPS AC AND 240 V, 70 MA DC. FOR RACK MOUNTING.	10/12/39 DEC. 41	
CG-46074 CXAC RECEIVER UNIT FREQ RANGE 77 TO 78 MC. FOR RECEPTION OF AMPLITUDE OR FREQUENCY MODULATED SIGNALS.	1/27/39 NOV. 41	4SH5A1	CAY 46077-A RBM-5 HIGH FREQUENCY RECEIVER FREQ. RANGE: 2000 TO 18,100 KC. INPUT: 205 VOLTS DC AT 0.07 AMPS AND 12 VOLTS DC/25 OR 60- AT 2.0 AMPS. SAME AS -46077 EXCEPT USES RECTANGULAR CAPACITORS MOUNTED ON TOP CHASSIS, USES NEW TYPE CALIBRATING CHART, DIAL LIGHTS MOUNTED	1/12/44 MAR. 44	T-7611365 REV 2	CBM 46082 NM-12 55RE46J1049 RECEIVER AMPLIFIER 17 TO 19 KC. USES -20059 POWER SUPPLY.	10/16/39 NOV. 41	574N 6893 ALT 0 574N
CNA 46075 RAU RADIO RECEIVER: (RACK MOUNTED). FREQUENCY RANGE 56 TO 85 MC. INCLUDES A BUILT-IN AUDIO AMPLIFIER, A LOUDSPEAKER AND INTEGRAL RECTIFIER TO PERMIT OPERATION FROM 105 TO 120 VOLTS SINGLE PHASE. 60 CYCLES.	7/25/39 JUNE 42	NC-110RS	CAY 46077-A TO FACILITATE REPLACEMENT. IMPROVED DIAL MECHANISM, INCLUDES NEW TYPE OSCIL- LATER TRIMMER COREHOLDERS. INTERCHANGE- ABLE WITH -46077 AS A UNIT.			CBM 46082-A NHC-1 RECEIVER AMPLIFIER: SAME AS -46082 EXCEPT FOR TUBE LINE UP AND THE ADDITION OF TWO CATHODE RESIS- TORS. TUBES ARE NOW FOUR 6XK7 THREE 6SJ7 AND TWO 6V6GT. MOUNTED IN LOWER PART OF INDICATOR-AMPLIFIER.	5/22/43 AUG. 43	CBM:574T 6893 ALT 0
CNA 46075A RAU-2 RADIO RECEIVER: RACK MOUNTED FREQUENCY RANGE 56 TO 85 MC. INCLUDES A BUILT-IN AUDIO AMPLIFIER A LOUDSPEAKER AND AN INTEGRAL RECTIFIER TO PERMIT OPERATION FROM 105 TO 120 VOLTS SINGLE PHASE 60 CYCLES. SAME AS CNA- 46075 EXCEPT FOR OMISSION OF THE ON-OFF	5/20/42 OCT. 42	CNA:NC-100RS CJP:P-39577 SUB 0	CCT 46078 RBM.-1.-2 RADIO RECEIVER ASSEMBLY: CONSISTS OF TYPES 46076 AND 46077 RECEIVER UNITS MOUNTED IN WATER PROOF CASE.	7/26/39 JUNE 42	CAY:T-7605886 SUB 3	CBM-46082-B NHC-2 RECEIVER AMPLIFIER FREQUENCY RANGE 17 TO 19 KC. SAME AS TYPE -46082-A EXCEPT FOR INCLUSION OF AMERICAN WAR STANDARD COMPOSITION RE- SISTORS, STAINLESS STEEL SCREWS, BLACK FRONT PANEL HARDWARE AND OMISSION OF RUBBER PARTS.	11/30/44 JAN. 45	574 V 60457 ALT 0
& B+ SWITCHES AND THE RELOCATION OF THE LOUD- SPEAKER GAIN CONTROL TO THE FRONT PANEL		CNA 46075A	CAY 46078-A RBM RADIO RECEIVER ASSEMBLY CONSISTS NAVY TYPES CAY-46076-A, CAY-46077-A RECEIVER UNITS MOUNTED IN WATER PROOF CASE. INTERCHANGEABLE WITH NAVY TYPE -46078.			CBY 46083 RAT RECEIVER UNIT 13.5 TO 20 MC; POWER SUPPLY; 11 TO 15 (12) VOLTS DC.		
CCT 46076 RBM.1.2 MEDIUM FREQUENCY RECEIVER: FREQUENCY RANGE 200 TO 2000 KC POWER SUPPLY 205 VOLTS DC AT 0.07 AMP 12 VOLTS DC/25 OR 60 CYCLES AC. 2.0 AMPS	7/26/39 AUG. 42	CAY:T-7608628 SUB 0	1/12/44 MAR. 44			CBY 46084 RAT RECEIVER UNIT 20 TO 27 MC; POWER SUPPLY: 11 TO 15(12) VOLTS DC.	10/25/39 NOV. 41	
CAY 46076-A RBM-5 MEDIUM FREQUENCY RECEIVER FREQ. RANGE: 200 TO 2000 KC. INPUT 205 VOLTS DC AT 0.07 AMPS AND 12 VOLTS DC/25 OR 60- AT 2.0 AMPS. SAME AS -46076 EX- CEPT USES RECTANGULAR CAPACITORS MOUNTED ON TOP CHASSIS, USES NEW TYPE CALIBRATING CHART, DIAL LIGHTS MOUNTED TO FACILITATE	1/12/44 MAR. 44	T-7611365 REV 2	CBM 46079 NAA RECEIVER AMPLIFIER UNIT. FREQUENCY RANGE: 22.5 TO 25.5 KC A PART OF -78092 INDICATOR; REC. AMP- LIFIER UNIT.	8/9/39 NOV. 41	574P 6921 ALT 0	CBY 46085 RAT RECEIVER MOUNTING	10/25/39 NOV. 41	
REPLACEMENT. IMPROVED DIAL MECHANISM, INCLUDES NEW TYPE OSCILLATOR TRIMMER COREHOLDERS. INTERCHANGEABLE WITH -46076 AS A UNIT.		CAY 46076-A	CNA 46080 RAS RECEIVER UNIT CONVERSION FREQUENCY 175 KC. FOR OPER- ATION FROM 6.3 VOLT 3.5 AMP AC - 0C AND 220 VOLTS 70 MA DC. FOR RACK MOUNTING.	10/12/39 NOV. 41		CBY 46086 DZ RECEIVER UNIT 150 TO 1500 KC.	10/25/39 MAR. 42	5694-2-A & 7978-3-B
			CNA 46080-A* RAS. RAS-1 RECEIVER UNIT OPERATES FROM 6.3 VOLTS 3.5 AMPS AC-DC AND 220 VOLTS. 70 MA DC. FOR RACK MOUNT- ING. SAME AS CNA-46080 EXCEPT HAS WIDE BAND "IF" TRANSFORMERS, NAVY TYPES CNA-47340 AND CNA-47341. *NX89-24547	6/17/43 NOV. 43			11/20/39 NOV. 41	M-420746 REV 2

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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
CRY 46087 DZ RECEIVER MOUNTING BASE			CAG 46094 OH HETERODYNE DETECTOR RANGE: 25 KC TO 5 MC WITH PLUS-IN COILS WITH SELF CONTAINED POWER SUPPLY FOR OPERATION FROM 115 VOLTS, SINGLE PHASE, 60 CYCLES AC.			CBM 46101 WBA SOUNDING RECEIVER- AMPLIFIER. FREQUENCY RANGE 17 TO 19 KCS. INCLUDES ITS OWN POWER SUPPLY OPERATING FROM 115 VOLTS AC.		RE 46J 1053A
11/20/39 NOV. 41	M-420746 REV 2		1/3/40 NOV. 41	619-135F REV 0		10/29/40 5740 MAR. 43		60013 ALT 0
CNA 46088 RAD-1 RECEIVER UNIT 540 KC TO 30 MC. HAS INTEGRAL TUNING UNITS AND RECTIFIER UNIT FOR OPERATION FROM 110 TO 115 VOLTS, 50 TO 60 CYCLES AC. SIMILAR TO -46072 EXCEPT IS A CABINET MODEL AND TUBE LINE-UP AND INCLUDES A NOISE SUPPRESSION CIRCUIT. 11/22/39 AUG. 42			CRY 46095 QCJ-2 & QCL 10RE46J1052A RECEIVER AMPLIFIER: FREQUENCY RANGE 17 TO 32 KC			CBY 46102 RAV RECEIVER UNIT FREQUENCY RANGE: 190 TO 550 KC; POWER SUPPLY: DYNAMOTOR AND 22 TO 30 (24) VOLTS DC.		
			2/1/40 MI-8938 JUNE 42	CRY:W-303251 SUB 18		11/8/40 NOV. 41		7390-3-A
OUTPUT IMPEDANCE IS 5000 OHMS.	CHA 46088		CBY 46096 RAT RECEIVER RACK-2 UNIT INCLUDES ASSOCIATED RECEPTACLES AND RELAYS FOR TWO RECEIVERS; POWER SUPPLY: 11 TO 15 (12) VOLTS DC			CBY 46103 RAV RECEIVER UNIT FREQUENCY RANGE: 520 TO 1500 KC; POWER SUPPLY: DYNAMOTOR AND 22 TO 30 (24) VOLTS DC.		
			2/18/40 NOV. 41			11/8/40 NOV. 41		7390-3-A
RW-46089 DT-2 RECEIVER UNIT 540 KC TO 30 MC; INCLUDES A RW-20067 VIBRATOR POWER UNIT FOR OPERATION FROM TWO TYPE -19019 BATTERIES IN PARALLEL.			CBM 46097 * SEE BELOW 55RE50F 1095A RECEIVER AMPLIFIER 24 (22.5 TO 25.5) KC, RECLASSIFIED TYPE NUMBER FOR NAVY TYPE CBM-50040.			CBY 46104 RAV RECEIVER UNIT FREQUENCY RANGE: 1.5 TO 3 MC; POWER SUPPLY: DYNAMOTOR AND 22 TO 30(24) VOLTS DC.		
			* NM-14, NM-14a 9/4/40 568F NOV. 41	(50040)		11/8/40 NOV. 41		7390-3-A
11/24/39 CHA:MC-100 NOV. 41 MODIFIED			CRY 46098 RAQ RECEIVER UNIT FREQUENCY RANGE: 60 TO 200 MC; WITH INTEGRAL RECTIFIER POWER UNIT FOR 115 VOLT, SINGLE PHASE, 60 CYCLE SUPPLY.			CBY 46105 RAV RECEIVER UNIT FREQUENCY RANGE: 3 TO 6 MC; POWER SUPPLY DYNAMOTOR AND 22 TO 30 (24) VOLTS DC.		
CG-46090 RAR RECEIVER UNIT 132-156 MC. - PHONE (A3) AND MCM (A2); SUPERHETERODYNE WITH 20 MC IF CHANNEL. POWER SUPPLY 115 VOLT, 60 CYCLES AC.			10/10/40 NOV. 41	TX-261920 SUB 1		11/8/40 NOV. 41		7390-3-A 5006-4-B
11/28/39 4SH7A1 NOV. 41	T-7661063 REV 1		CRY 46099 ZC RECEIVER UNIT			CBY 46106 RAV RECEIVER UNIT FREQUENCY RANGE: 6 TO 9.1 MC; POWER SUPPLY: DYNAMOTOR AND 22 TO 30(24) VOLTS DC.		
CCR 46091 RAP RECEIVER UNIT 150 TO 1500 KC & 1800 TO 15000 KC. WITH PROVISION FOR HOMING ON FREQUENCY RANGE 150 TO 1500 KC.			10/18/40 NOV. 41	K-865141 SUB 0		11/8/40 NOV. 41		7390-3-A 5007-4-C
12/6/39 NOV. 41	L-711378 REV 2		CBM 46100 NJ-1/NJ-2 RECEIVER-AMPLIFIER ONE STAGE TUNED R.F.. DETECTOR, AND OUTPUT STAGE. AMPLIFIER RECTIFIER POWER SUPPLY IS CONTAINED WITHIN THE AMPLIFIER ASSEMBLY.			CBY 46107 RAV RECEIVER UNIT FREQUENCY RANGE: 9 TO 13.5 MC; POWER SUPPLY: DYNAMOTOR AND 22 TO 30(24) VOLTS DC.		
CRM 46092 RAZ RADIO RECEIVER 15 TO 600 KC, BAND CHANGE SWITCH.			10/19/40 801B NOV. 41	SK-4688 ALT 0		11/8/40 NOV. 41		7390-3-A
12/13/39 AR-8503 NOV. 41			CBM 46100-A NJ-4 RECEIVER-AMPLIFIER: ONE STAGE TUNED R.F.. DETECTOR, AND OUT- PUT STAGE. RECTIFIER POWER SUPPLY IS CONTAINED WITHIN CASE. IDENTICAL TO CBM-46100 EXCEPT THAT ALL TUBES (EXCEPT TYPE 41) ARE REPLACED BY NAVY STANDARD TUBES. OPERATES FROM 115/1/60. 5/5/43 CBM:801H CBM:SK-4890 AUG. 43 ALT 0			CBY 46108 RAT-1 & RAV RECEIVER UNIT FREQUENCY RANGE: 13.5 TO 20 MC; POWER SUPPLY: DYNAMOTOR AND 22 TO 30(24) VOLTS DC. SAME AS CBY-46083 EXCEPT FOR FILAMENT VOLTAGE.		
CRY 46093 DR-3 RADIO RECEIVER 100 TO 1500 KC. SIMILAR TO -46040A EXCEPT INCLUDES REC. INPUT TRANSFORMER AND CHANGE IN BAND SWITCH WIRING AND BALANCE COIL.			12/20/39 MAR. 42	K-868585 SUB 0		11/8/40 NOV. 41		7390-3-A



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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 46109	RAT-1 & RAV		CG-46117	RAX		RA-46125	XAP	
RECEIVER UNIT FREQUENCY RANGE: 20 TO 27 MC; POWER SUPPLY: DYNAMOTOR AND 22 TO 30 (24) VOLTS DC. SAME AS CBY-46034 EXCEPT FOR FILAMENT VOLTAGE.			RADIO RECEIVER FREQ. RANGE: 7 TO 27 MC; CW(A1), MCH(A2) & PHONE(A3); INCLUDES AN INDIVIDUAL DYNAMOTOR UNIT FOR OPERATION FROM 22 TO 28 VOLTS DC.			RADIO RECEIVER FREQUENCY RANGE 132 TO 210 MCS. INCLUDES AN INTEGRAL RECTIFIER POWER UNIT FOR OPERATION FROM 115 VOLTS, SINGLE PHASE, 60 CYCLES; SUITABLE FOR RECEPTION OF SINGLE OR DOUBLE MODULATED SIGNALS HAVING A 175 TO 225 KC DOUBLE MODULATION		
11/8/40		7390-3-A	11/28/40		MW-7350179	4/18/41		
NOV. 41			NOV. 41		REV 1	NOV. 41		
CBY 46110	RAT-1		CG-46118	RAX				46125
RECEIVER RACK - TWO UNIT INCLUDES ASSOCIATE RECEPTACLES & RELAYS FOR TWO RECEIVERS. SAME AS NAVY TYPE -46096 EXCEPT FOR OPERATION FROM 22 TO 30(24) VOLTS DC.			RECEIVER RACK INCLUDES ASSOCIATED RECEPTACLES FOR THREE RECEIVERS, SHOCK REDUCING MOUNTS AND FOUR ADAPTER MOUNTING PLATES.			FREQUENCY: ALSO CW OR PHONE ON THE DOUBLE MCH.		
11/8/40		5018-3-A	11/28/40		MW-7350179			
MAR. 42		7978-3-B	NOV. 41		REV 1			
CBY 46111	RAV		RW-46119	DY-2 & DAA		CG-46126	TCL	
RECEIVER RACK - FOUR UNIT INCLUDES ASSOCIATED RECEPTACLES AND RELAYS FOR FOUR RECEIVERS. SAME AS NAVY TYPE 46110 EXCEPT FOR ADDITIONAL UNITS.			RECEIVER UNIT 540 TO 30,000 KCS; INCLUDES A TYPE -20116 VIBRATOR POWER UNIT FOR OPERATION FROM TWO TYPE -19019 BATTERIES IN PARALLEL.			FM RADIO RECEIVER FREQUENCY RANGE 30 TO 42 MC; CRYSTAL CONTROLLED - SUITABLE FOR RECEPTION OF FM SIGNALS HAVING A MAXIMUM OF ± 15 KC SWING.		
11/8/40		7390-3-A	12/13/40			4/21/41	4SF181	GEI-13622A
NOV. 41			NOV. 41			APR. 42		PAGE 8
CBY 46112	RAV		COE 46120	ZA		CBM 46127	CXAY	
RECEIVER MOUNTING			GLIDE PATH RECEIVER WITH MOUNTING BASE. FREQUENCY RANGE: 85 TO 100 MC; POWER SUPPLY: 0.6 AMP AT 12 VOLTS DC AND 4 MA AT 200 VOLTS DC.			RECEIVER-AMPLIFIER IDENTICAL WITH CBM -46087A EXCEPT THAT TUNING RANGE IS 33 TO 44 KILOCYCLES.		
11/8/40		7390-3-A	Ø WASH. INST. OF TECH. DWG 2314 REV 0			4/21/41	7550	SK:4003 ALT 0
NOV. 41			11/30/40		Ø SEE ABOVE	NOV. 41		
CG-46113	CXAG		CRV 46121	ZC-1		CG-46128	RAX-1	
RADIO RECEIVER FREQ. RANGE: 85 TO 100 MC; MCH(A2) OR PHONE(A3) FM OR AM.			RECEIVER UNIT WITH SHOCK-PROOF MOUNTING. SIMILAR TO CRV -46099 EXCEPT FOR FILAMENT WIRING AND SOME MINOR DETAILS OF CONSTRUCTION, NOT INTERCHANGEABLE ELECTRICALLY.			RECEIVER RACK - SINGLE RECEIVER. INCLUDES ASSOCIATED RECEPTACLE AND JUNCTION BOX WITH TWO PHONE JACKS AND SWITCH TO TRANSFER AUDIO POWER FROM RECEIVER TO EITHER PHONE JACK.		
11/13/40		T-7661252 REV 1	12/26/40		K-865142 SUB 0	5/2/41	HL-7763086-CI	P-7763086 REV 0
NOV. 41			NOV. 41			NOV. 41		
CG-46114	CXAJ		CBM 46122	MAC		CBY 46129	ARA	
RADIO RECEIVER FREQ. RANGE: 125 TO 140 MC; MCH(A2) OR PHONE(A3) FM OR AM.			RECEIVER - AMPLIFIER MODIFIED CBM -46097 FOR 20 KC OPERATION.			RADIO RECEIVER FREQUENCY RANGE: 190 TO 550 KC; POWER SUPPLY: INDIVIDUAL DYNAMOTOR AND 22 TO 24 VOLTS DC; SAME AS CBY-46102 EXCEPT FOR OMISSION OF ANTENNA LOOP SWITCH.		
11/13/40		T-7661252 REV 1	1/15/41	568F MODIFIED	SK:3352 ALT 0	5/22/41		
NOV. 41			NOV. 41			NOV. 41		
CG-46115	RAX		CRV 46123	DZ-1		CHL 46130	RBK	
RADIO RECEIVER FREQ. RANGE: 200 TO 1500 KC; CW(A1), MCH(A2) & PHONE(A3); INCLUDES AN INDIVIDUAL DYNAMOTOR UNIT FOR OPERATION FROM 24 TO 28 VOLTS DC.			RADIO RECEIVER FREQUENCY RANGE: 15 TO 70 & 100 TO 1500 KCS. FILAMENT SUPPLY 27.9 (22 TO 30) VOLTS DC; PLATE SUPPLY 220 VOLTS DC.			RADIO RECEIVER FREQUENCY RANGES: 27.8 TO 47.46 TO 82.82 TO 143 MC. FM OR AM. OPERATES FROM 110 V, 60 CYCLES. SINGLE PHASE. OUTPUT IMPEDANCE 5000 & 500 OHMS. INCLUDES RECEPTACLE FOR PANORAMIC ADAPTER (FIRST 70 SUPPLIED WITHOUT RECEPTACLE). SIMILAR 7/7/41 S 27, MODIFIED 920034		
11/28/40		MW-7350179	2/4/41		M-421233 SUB 0	MAR. 44		
NOV. 41		REV 1	NOV. 41					
CG-46116	RAX		CRV 46124	DZ-a				CHL 46130
RADIO RECEIVER FREQ. RANGE: 1.5 TO 9 MC; CW(A1), MCH(A2) & PHONE(A3); INCLUDES AN INDIVIDUAL DYNAMOTOR UNIT FOR OPERATION FROM 24 TO 28 VOLTS DC.			RADIO RECEIVER FREQUENCY RANGE: 15 TO 70 AND 100 TO 1500 KCS. FILAMENT SUPPLY 24 VOLTS DC. PLATE SUPPLY 220 VOLTS DC. SAME DIMENSIONS AS -46123 BUT WIRING AND CIRCUIT DIFFER.			TO -46241.		
11/28/40		MW-7350179	3/18/41		M-421233 REV 0			
NOV. 41		REV 1	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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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
CHL 46130A	RBK-3,4,5		CBM 46131-A	NJ-9		CRV 46137	DP-14	
<p>RADIO RECEIVER: FREQ RANGE 27.8 TO 143 MC. FM OR AM. OUTPUT IMPEDANCE 5000 OHMS AND 500 OHMS. SAME AS TYPE CHL-46130 EXCEPT HAS NO RECEPTACLE FOR PANORAMIC ADAPTER AND HAS POWER TRANSFORMER TO PERMIT OPERATION FROM 110 OR 230 VOLTS, 1 PHASE, 50 TO 60 CYCLES.</p> <p>8/22/42 S-27-DU 92D034 MAR. 43</p>			<p>RECEIVER-AMPLIFIER: TWO STAGES OF RF, DETECTOR AND OUTPUT STAGE. FREQ RANGE 20.6 TO 23.8 KC. AMPLIFIER RECTIFIER POWER SUPPLY IS CONTAINED WITHIN THE AMPLIFIER ASSEMBLY. INPUT: 68 WATTS AT 115 V, 60 CY, SINGLE PHASE. SIMILAR TO-46100 BUT HAS NEWER 3/17/43 CBM:835C CBM:SK-5396A MAY 43 ALT 0</p>			<p>RADIO RECEIVER 100 TO 1500 KC. SAME AS CRV-46136 EXCEPT ANTENNA GROUNDING RELAY OPERATES FROM 6(5.4 TO 7.5) VOLTS DC AND INCLUDES A STARTING RELAY FOR PLATE VOLTAGE.</p> <p>9/4/41 K-868585 SUB 1 MAR. 42</p>		
CHL 46130B	RBK-6		CBM 46131-A			CRV 46138	DP-16	
<p>RADIO RECEIVER: FREQ RANGE 27.8 TO 143 MC. FM OR AM. OUTPUT IMPEDANCE IS 500 AND 5000 OHMS. OPERATES FROM 110 OR 230 VOLTS, 1 PHASE, 50 TO 60 CYCLES. SAME AS -46130A EXCEPT HAS RECEPTACLE FOR PANORAMIC ADAPTER.</p> <p>12/23/42 S-27-DU 92D034 MAR. 43 ISSUE A</p>			<p>TYPE TUBES AND HAS SLIGHTLY LARGER CURRENT DRAIN. SAME AS BASIC NUMBER EXCEPT CASE IS STEEL.</p>			<p>RADIO RECEIVER 100 TO 1500 KC. ANTENNA GROUNDING RELAY OPERATES FROM 6(5.4 TO 7.5) VOLTS, 25 CYCLES AC, OTHERWISE SAME AS CRV-46136.</p> <p>9/4/41 K-868585 SUB 1 MAR. 42</p>		
CHL-46130-C	RBK-12		CG-46132	RBD		CZC 46139	R80	
<p>RADIO RECEIVER: FREQUENCY RANGE: 27.8 TO 143 MC: FM OR AM: OUTPUT IMPEDANCE 5000 OHMS AND 500 OHMS. OPERATES FROM 115 OR 230 VOLTS 1 PHASE 50 TO 60 CYCLES. HAS RECEPTACLE FOR PANORAMIC ADAPTER. SAME AS -46130-B EXCEPT HAS HERMETICALLY SEALED</p> <p>3/3/44 IX334 92D183 JULY 44</p>			<p>RADIO RECEIVER FREQUENCY RANGE: 1500 TO 12,000 KC IN 4 BANDS - 1500 TO 2400, 2400 TO 3800, 3800 TO 6800, &amp; 6800 TO 12,000 KC. RECEIVES CW OR MCW, VARIABLE OR CRYSTAL CONTROLLED BY ANY OF 4 PRESELECTED CRYSTALS, Ø P-7763782-1 REV 0, P-7763574-1 REV 0. 8/11/41 4SH11A1 Ø SEE ABOVE MAR. 42 ML-7763574-C1</p>			<p>RADIO RECEIVER: FREQUENCY RANGE: 0.53 TO 1.6 MC AND 6.55 TO 15.6 MC. INCLUDES AN INTEGRAL RECTIFIER POWER UNIT FOR OPERATION FROM 115/1/60.</p> <p>2/18/42 LR-12 R80-101 AUG. 44</p>		
CHL-46130-C						CHC 46140	R8G	
<p>TRANSFORMERS AND CHOKES AND USES PERMEABILITY TUNING INSTEAD OF AIR TRIMMERS.</p>			<p>INCLUDES A SHOCK ABSORBING 46132 MOUNTING RACK. REQUIRES 1.15 AMP AT 12.6 V AND 100 MILLIAMP AT 225 VOLTS. POWER OUTPUT 2 WATTS INTO 600 OHM LINE.</p>			<p>RADIO RECEIVER 640 KC TO 30 MC. FOR OPERATION FROM 110/1/60.</p> <p>9/5/41 APR. 42</p>		
CHL 46130-D	RBK-14		CBM 46133	JK-9	55RE46J1051A	CRV 46141	DP-17	
<p>RADIO RECEIVER FREQ. RANGE: 27.8 TO 143 MC FM OR AM. OUTPUT IMPEDANCE 5000 OHMS &amp; 500 OHMS. OPERATES FROM 115 OR 230 VOLTS 1 PHASE 50 TO 60 CYCLES. HAS RECEPTACLE FOR PANORAMIC ADAPTER. SAME AS -46130-C EXCEPT FOR MINOR CIRCUIT CHANGES &amp;</p> <p>8/19/44 DEC. 44</p>			<p>RECEIVER-AMPLIFIER: FREQ RANGE IS 12.5 TO 26.2 KC. OPERATES FROM 115/1/60 1.0 AMP, 75 WATTS. TWO STAGES T.R.F., TUNED DETECTOR, TWO STAGES AUDIO OSCILLATOR, AND BUILT-IN THERMIONIC RECTIFIER.</p> <p>8/15/42 869 CBM:SK-4993 MAR. 42 ALT 1</p>			<p>RADIO RECEIVER 100 TO 1500 KC. ANTENNA GROUNDING RELAY OPERATES FROM 6(5.4 TO 7.5) VOLTS, 50 CYCLES, AC, OTHERWISE THE SAME AS CRV-46136.</p> <p>9/9/41 K-868585 SUB 1 MAR. 42</p>		
CHL 46130-D			RW-46134	DY-3	RW 46F 764A	CNA 46142	R8E	
<p>ADDITION OF AN EXTERNAL PLUG TO PERMIT RECEIVER TO BE BLANKED.</p>			<p>RADIO RECEIVER 540 TO 30,000 KCS. INCLUDES A TYPE -20116 VIBRATOR POWER UNIT FOR OPERATION FROM TWO TYPE -19019 BATTERIES IN PARALLEL.</p> <p>8/29/41 NC-100A NOV. 41</p>			<p>RADIO RECEIVER: 640KC TO 30MC. HAS INTEGRAL TUNING UNITS AND RECTIFIER FOR OPERATION FROM 110 TO 115 VOLTS, 50 TO 60 CY. SIMILAR TO TYPE -46088.</p> <p>9/21/41 CNA:D-202 REV 0 AUG. 43</p>		
CBM 46131	NJ-3		CNR 46135	ML & ML-1		CRV 46143	AYA, AYA-1	
<p>RECEIVER-AMPLIFIER: TWO STAGES RF, DETECTOR AND OUTPUT STAGE FREQ RANGE: 20.6 TO 23.8 KC. AMPLIFIER RECTIFIER POWER SUPPLY IS CONTAINED WITHIN THE AMPLIFIER ASSEMBLY. INPUT 68 WATTS AT 115 VOLTS 60 CY SINGLE PHASE. SIMILAR TO 46100 BUT HAS NEWER TYPE TUBES</p> <p>8/5/41 CBM:835 CBM:SK-4895 AUG. 43 ALT 0</p>			<p>RADIO RECEIVER FREQUENCY RANGE 1550 TO 4200 KC (CONTINUOUSLY VARIABLE): INCLUDES 10 PRESELECTED CRYSTALS WITHIN THE 2000 TO 3000 KC BAND. POWER SUPPLY 115-VOLTS DC. INPUT CURRENT 0.48 AMP.</p> <p>9/4/41 763-B CNR:395817-2 AUG. 42</p>			<p>AIRCRAFT RADIO RECEIVER: SIMILAR TO CRV-46121 (2C-1) EXCEPT FOR SIMPLIFICATION OF ALIGNMENT OF I.F. CIRCUITS. NOT INTERCHANGEABLE WITH -46121. FREQUENCY RANGE 490 TO 510 MC. INPUT 110 MA. AT 300 VOLTS AND 12-14 V. DC AT 1.8 A OR 24 TO 28.6 V DC AT 0.9 A. 9/29/41 866509-501 CRV:P-721125 MAR. 43 SUB 3</p>		
CBM 46131			CRV 46136	* SEE BELOW		46144	RBH	
<p>AND HAS SLIGHTLY LARGER CURRENT DRAIN.</p>			<p>RADIO RECEIVER 100 TO 1500 KC. SAME AS CRV-46040A EXCEPT AN ELECTRIC EYE HAS BEEN ADDED. ANTENNA GROUNDING RELAY OPERATES FROM 6(5.4 TO 7.5) V, 60 CYCLES. INPUT: 6.1 V, 3.3 AMPS AC/OC AND 100 V, 0.3 AMP DC. * DP-12, 13, 15 9/4/41 K-868585 SUB 1 AUG. 42</p>			<p>RADIO RECEIVER 300 TO 1200 AND 1700 TO 16000 KC. NO PLUG IN COILS. SIMILAR TO NAVY TYPE CNA-46088 (RAD-1) EXCEPT HAS A CONVERSION FREQUENCY OF 1560 KC AND FREQUENCY RANGE. OUTPUT IMPEDANCE IS 5000 OHMS. 10/22/41 OCT. 42</p>		

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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 46145 ARA RADIO RECEIVER FREQUENCY RANGE 520 TO 1500 KC. POWER SUPPLY 22 TO 30 (24) V DC. SAME AS -46103 EXCEPT FOR OMISSION OF ANTENNA LOOP SWITCH.	11/12/41 DEC. 41		CRV 46148 RBC, RBC-1 RADIO RECEIVER FREQ. RANGE 4.0 TO 27 MC IN FOUR BANDS: 4 TO 6.45 MC, 6.45 TO 10.3 MC, 10.3 TO 16.5 MC, 16.5 TO 27.0 MC. POWER INPUT 6.3 V AC AT 5.4 AMP, 17 V AC AT 0.6 AMP, 105 V DC AT 5.0 MA, 200 V DC AT 78 MA.	12/1/41 MAR. 42	MX-245485 REV 1	CRV 46152 DZ-2 RADIO RECEIVER: FREQUENCY RANGE 15 TO 70 AND 100 TO 1750 KC. FILAMENT SUPPLY 27.9 VOLTS 1.7 AMPS DC. PLATE SUPPLY 230 VOLTS 45 MA DC. SAME AS NAVY TYPE CRV-46123 EXCEPT FOR EXTENDED FREQUENCY RANGE.	12/29/41 AUG. 42	
CRV 46146 DQ-6 RADIO RECEIVER FREQUENCY RANGE 100 TO 1500 KC. SAME AS CRV-46093 EXCEPT HAS BEEN MODIFIED TO OMIT THE LOOP TRANSFORMER, RESULTING IN THE NECESSITY FOR A DIFFERENT RECEIVER INPUT TRANSFORMER. INPUT IS 6.1 VOLTS, 3.3 AMPS AC/DC, 100 VOLTS, 0.3 AMP DC.	11/26/41 SEPT. 42	K-868585 REV 1	CRV 46148-A RBC-1A RADIO RECEIVER: FREQ RANGE: 4.0 TO 27MC IN FOUR BANDS; 4.0 TO 6.45 MC, 6.45 TO 10.3 MC, 10.3 TO 16.5 MC, 16.5 TO 27.0 MC. POWER INPUT: 6.3 VAC AT 5.4 AMPS, 17VAC AT 0.6 AMPS, 105 VDC AT 5.0MA, 200 VDC AT 78MA. SAME AS BASIC NUMBER EXCEPT ADDITION OF TUBE.	10/26/42 AUG. 43		CRV 46153 DAE RADIO RECEIVER FREQUENCY RANGE 240 TO 2000 KC. OPERATES FROM 115/1/60	12/30/41 MAR. 44	TS- 180 10/6/41
CRV 46146A DQ-6 RADIO RECEIVER FREQ. RANGE 100 TO 1500 KC. SAME AS 46146 EXCEPT INCLUDES THE ELECTRONIC EYE OUTPUT INDICATOR. INPUT IS 6.1 VOLTS, 3.3 AMPS AC/DC, 100 VOLTS, 0.3 AMP DC.	11/26/41 SEPT. 42	K-868585 REV 1	CRV 46148-B RBC-1 RADIO RECEIVER FREQ RANGE 4.0 TO 27 MC IN FOUR BANDS: 4 TO 6.45 MC, 6.45 TO 10.3 MC, 10.3 TO 16.5 MC, 16.5 TO 27.0 MC. POWER INPUT 6.3V AC AT 5.4 AMPS, 17V AC AT 0.6 AMPS, 105V DC AT 5.0 MA, 200V DC AT 78 MA. SAME AS NAVY TYPE -46148 EXCEPT IS	2/4/44 MAR. 44	PX-276790	CFT 46154 RBA, RBA-1 RADIO RECEIVER FREQ. RANGE 15 TO 600 KC IN FOUR BANDS 15 TO 38, 38 TO 95, 95 TO 235, 235 TO 600 KC.	1/5/41 MAR. 42	F-23808-1D
CRV 46147 RBB, RBB-1 RADIO RECEIVER FREQ. RANGE 0.5 TO 4.0 MC IN FOUR BANDS: 500 TO 840 KC, 840 TO 1410 KC, 1410 TO 2370 KC, 2370 TO 4000 KC. POWER INPUT 6.3 V AC AT 5.4 AMP, 17 V AC AT 0.6 AMP, 105 V DC AT 5.0 MA, 200 V DC AT 78 MA.	12/1/41 MAR. 42	HX-245485 REV 1	CRV 46148-B MODIFIED TO INCLUDE A NAVY TYPE -35048.			46155 RAK-6 RADIO RECEIVER: FREQUENCY RANGE: 15 TO 600 KC. INPUT 6.2 VOLTS AT 2 AMPS, 90 VOLTS AT 1 MA DC, 180 VOLTS AT 35 MA DC. SIMILAR TO NAVY TYPE CRV-46044 EXCEPT FOR ADDITIONAL SHIELDING AND FILTERING TO REDUCE SUPER-FREQUENCY NOISE.	1/13/42 MAR. 43	CNV:M-422339 SUB 0
CRV 46147A RBB-1A RADIO RECEIVER: FREQ RANGE .5 TO 4 MC IN FOUR BANDS. 500 TO 840 KC, 840 TO 1410 KC, 1410 TO 2370 KC, 2370 TO 4000 KC. POWER INPUT 6.3 VAC AT 5.4 AYPS 17 VAC AT .6 AMP. 105 VDC AT 5 MA, 200 VDC AT 78 MA. SAME AS BASIC NUMBER EXCEPT ADDITION OF TUBE, FILTER, AND CON-	10/26/42 MAR. 43		CRV 46148-B MODIFIED TO INCLUDE A NAVY TYPE -35048.			CRV 46155-A RAK-8 RADIO RECEIVER: FREQUENCY RANGE: 15 TO 600 KC. SAME AS BASIC NUMBER EXCEPT FOR USE OF AWS CAPACITORS.	4/2/43 MAY 43	
CRV 46147A ECTOR TO ACCONODATE RBU PANORAMIC ADAPTER.			CBY 46149 ARA RECEIVER RACK FOR MOUNTING THREE RECEIVERS OF THE FOLLOWING CBY TYPES: -46104, -46105, -46106, -46129, -46145.	12/4/41 MAR. 42	7537-3-B & 9064-4-A	46156 RAL-6 RADIO RECEIVER: FREQUENCY RANGE 0.3 TO 23 MC. INPUT 6.2 VOLTS AT 2 AMPS, 90 VOLTS AT 1 MA DC, 180 VOLTS AT 35 MA DC. SIMILAR TO NAVY TYPE CRV-46045 EXCEPT FOR ADDITIONAL SHIELDING AND FILTERING TO REDUCE SUPER-FREQUENCY INTERFERENCE.	1/13/42 MAR. 43	CNV:M-422340 SUB 0
CRV 46147-B RBB-1 RADIO RECEIVER FREQ RANGE 0.5 TO 4.0 MC IN FOUR BANDS: 500 TO 840 KC, 840 TO 1410 KC, 1410 TO 2370 KC, 2370 TO 4000 KC. POWER INPUT: 6.3V AC AT 5.4 AMPS, 17V AC AT 0.6 AMPS, 105V DC AT 5.0 MA, 200V DC AT 78 MA. SAME AS -46147 EXCEPT IS MODIFIED TO	2/4/44 MAR. 44	PX-276790	CBY 46150 ARA RECEIVER MOUNTING PROVIDES ANTI-SHOCK MOUNTING FOR THREE RECEIVERS IN TYPE CBY-46149 RECEIVER RACK.	12/4/41 MAR. 42	7060-2-B & 9064-4-A	CRV 46156-A RAL-8 RADIO RECEIVER: FREQUENCY RANGE: 0.3 TO 23 MC. SAME AS BASIC NUMBER EXCEPT FOR USE OF AWS CAPACITORS	4/2/43 MAY 43	
CRV 46147-B INCLUDE A NAVY TYPE -35047.			CRV 46151 ARB AIRCRAFT RADIO RECEIVER INPUT: 28 VOLTS DC FREQUENCY RANGE 195 KC TO 9050 KC	12/4/41 JUNE 42	M1-8690 CRV:1-620357- 501 REV 10	CBY 46157 ARA RECEIVER RACK FOR MOUNTING ONE RECEIVER OF THE FOLLOW- ING GENERAL TYPES: -46104, -46105, -46106, -46129, -46145. IDENTICAL TO CBY-46182 EXCEPT THAT RELAY COIL IS WOUND FOR 24 VOLTS DC OPERATION.	1/30/42 AUG. 42	7509-2-B

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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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46158 ARA \*\*  
RECEIVER MOUNTING  
PROVIDES ANTI-SHOCK MOUNTING FOR ONE RECEIVER OF MODEL ARA \*\* ATE SERIES AND ONE -46182 RECEIVER RACK.(AN)DESIGNATION MT-5/ARR-2

\* ATE, ZB-X  
1/30/42 CBY: 7059-1-B  
NOV. 43 CW:

COL 46159 \* SEE BELOW  
RADIO RECEIVER:  
FREQUENCY RANGE 1500 TO 12000 KC. TO OPERATE FROM L.V. GENERATOR OF NAVY TYPE COL-21774, COL-21775, COL-21776 OR COL-21777 OR FROM L.V. DYNAMOTOR OF DYNAMOTOR ASSEMBLY NAVY TYPE COL-21770.  
\* 1CS,-1,-2,-3,-4  
3/18/42 510-1 COL:239E-1  
AUG. 42 CABINET 49R-1

POWER REQUIRED TO OPERATE COL 46159  
RECEIVER IS 12 VOLTS 12  
WATTS 1.0 AMP DC AND 220 VOLTS 19.8  
WATTS .090 AMP DC.

46159-A TCS-6  
RADIO RECEIVER:  
FREQ RANGE 1500 TO 12,000KC. INPUT: 12.0 VOLTS, 12 WATTS, 1.0 AMP DC AND 220 VOLTS, 19.8 WATTS, 0.09 AMPS DC. SAME AS BASIC NUMBER EXCEPT FOR SUBSTITUTION OF COLD ROLLED STEEL FOR STAINLESS STEEL  
CKP:51Q-1  
5/18/43 CH:CABINET 49R-1 COL:239E-1  
NOV. 43 CHZ:MA-1050

46159-A  
IN SOME PARTS AND SLIGHT CHANGE IN VALUE AND MOUNTING OF CAPACITOR BANKS.

CNA 46160 RBN  
RADIO RECEIVER:  
FREQ. RANGE 490 KC TO 30 MC IN SIX BANDS CONTINUOUS COVERAGE. OPERATES FROM 110/1/60. 1 AMP, 100 WATTS.

3/12/42 HC-200  
OCT. 42

CNA 46161 RBL-1  
RADIO RECEIVER: FREQUENCY RANGE 15 TO 600 KC. POWER SUPPLY 115 VOLTS AC, SINGLE PHASE, 60-CYCLES. TRF RECEIVER AND HAS BUILT-IN RECTIFIER POWER PACK. OUTPUT IMPEDANCE IS 600 OHMS RATED 300 MILS. AT 115 VOLTS AND 60 CY INPUT IS 45 WATTS .4 AMP.  
3/17/42 NC-625 D-665  
OCT. 42

CHQ 46161-A RBL-3  
RADIO RECEIVER:  
FREQ RANGE: 15 TO 600 KC. SUPPLY: 115/1/60 OR BATTERY HAS BUILT-IN RECTIFIER POWER PACK. OUTPUT IMPEDANCE IS 600 OHMS. ELECTRICALLY AND MECHANICALLY INTER-CHANGEABLE WITH CNA-46161. AT 115/1/60 INPUT IS 45 WATTS.  
4/1/43 CW:25A756  
MAR.44 REV 0

CNA- 46161-B RBL-2  
RADIO RECEIVER:  
FREQUENCY RANGE: 15 TO 600 KC. POWER SUPPLY 115V, 1Ø, 60~, TRF RECEIVER AND HAS BUILT-IN RECTIFIER POWER PACK. OUTPUT IMPEDANCE IS 600 OHMS. SAME AS -46161 EXCEPT INCLUDES NAVY TYPE 49121-A CONCENTRIC ANTENNAE PLUG AND CONCENTRIC 12/16/43 BH:120 F-680  
DEC. 44

CNA- 46161-B  
ANTENNA JACK (ANTENNA BLISTER), CORD AND PLUG IS OMITTED AND MINOR MODIFICATION IN COMPONENTS. INPUT CURRENT. 41 INPUT WATTAGE 45.

CHL 46162 RBK-2  
RADIO RECEIVER:  
FREQUENCY RANGE 27.8 TO 143 MC (27.8-47, 46-82, 82-143). FM OR AM. OPERATES FROM 110 VOLTS AC, 60 CYCLES, SINGLE PHASE. OUTPUT IMPEDANCE 500 OR 5000 OHMS. SIMILAR TO CHL-46130. MAX OUTPUT 10 WATTS. AT 5 WATTS OUTPUT DISTORTION 3/19/42 S-27 CHL:920034  
MAR. 43 REV 0

CHL 46162  
IS NEGLIGIBLE.

CHC 46163 RBC  
RADIO RECEIVER:  
540 KC TO 30 MC. FOR OPERATION FROM 110/1/25

3/25/42  
APR. 42

CHL 46164 CXBP  
RADIO RECEIVER:  
FREQ. RANGE 210 TO 400 MC IN TWO BANDS. ANTENNA INPUT IMPEDANCE TO MATCH 70 OHM CONCENTRIC LINE. USES TYPE -49120 CONCENTRIC JACK THEREFOR. AUDIO LOAD IMPEDANCE FROM 60 TO 600 OHMS. AUDIO OUTPUT 2 WATTS WITH 5% DISTORTION INTO 60  
4/2/42 CHL:EP-132  
MAR. 44

CHL 46164  
OHM LINE. OPERATES FROM 115/1/60. FIRST FREQ. BAND 210 TO 295 MC, SECOND BAND FROM 290 TO 400 MC.

CBM 46165 WCA  
RECEIVER-AMPLIFIER:  
FREQUENCY RANGE 14 TO 32 KC. SIMILAR TO TYPE -46061A EXCEPT THAT A SECOND OUTPUT OF THE OSCILLATOR IS FED TO THE TYPE CBM-52252 DRIVER SERVING AS A VARIABLE FREQUENCY CONTROL. A HIGH LOW POWER IS PROVIDED TO CONTROL THE AMOUNT OF INPUT  
4/5/42 255J CBM:60092 ALT 1  
MAR. 43

OF THE ABOVE OUTPUT TO CBM 46165 THE DRIVER. AND THE TUNING SCALE IS ARRANGED TO READ DIRECTLY IN FREQUENCY. INPUT 6.3 AC/DC/260DC/280 DC VOLTS, 3.3/.0036/.03 AMPS.

CBM 46165-A WCA-2  
RECEIVER-AMPLIFIER  
FREQ RANGE: 14 TO 32KC. SAME AS BASIC NUMBER EXCEPT OSCILLATOR TUBES 6A6 AND 76 REPLACED BY 6SN7GT AND 6J5GT WITH ASSOCIATED CIRCUIT ALTERATIONS.

11/4/43 755Q 60092  
NOV. 43 ALT 4

CBM 46165-B GEN SONAR USE  
RECEIVER-AMPLIFIER  
SAME AS TYPE -46165 EXCEPT IS MODIFIED FOR TIME VARIATION GAIN BY ADDITION OF SINGLE ON-OFF CONTROL SWITCH RELAY FOR SUPPLYING DECAYING BIAS VOLTAGE FROM POLARIZING VOLTAGE AND A DECOUPLING NETWORK FOR FEEDING VOLTAGE TO THE  
10/7/44 755J  
DEC. 44 755-7000

CBM 46165-B  
2 IF STAGES. (SEE CONTRACT NXSP-55646)

CBM 46165-C GEN SONAR USE  
RECEIVER-AMPLIFIER  
SAME AS TYPE -46165-A EXCEPT IS MODIFIED FOR TIME VARIATION GAIN BY ADDITION OF SINGLE ON-OFF CONTROL SWITCH RELAY FOR SUPPLYING DECAYING BIAS VOLTAGE FROM POLARIZING VOLTAGE, AND A DECOUPLING NETWORK FOR FEEDING VOLTAGE TO THE  
10/7/44 755Q  
DEC. 44 755-7000

CBM 46165-C  
2 IF STAGES. (SEE CONTRACT NXSP-55646)

CBM 46166 WCA  
RECEIVER-AMPLIFIER:  
FREQUENCY RANGE 22.5 TO 25.5 KC. USED AS SOUNDING RECEIVER-AMPLIFIER. SIMILAR TO CBM-46082 EXCEPT THAT VARIABLE TRIMMING CAPACITORS ARE ADDED FOR TRIMMING THE RESONANT CIRCUITS. AN INDICATING POINTER IS PROVIDED ON BEAT FREQUENCY  
4/5/42 5743 CBM:50095 ALT 0  
MAR. 43

ADJUSTMENT TO INDICATE CBM 46166  
ZERO ADJUSTMENT. INPUT 6.3 AC/DC, 238 DC, 285 DC VOLTS AND 3.2/.075/.034.

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 46—Receiver Units and Converters

3.46-11

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 46166-A	WEB	RECEIVER-AMPLIFIER FREQ RANGE 22.5 TO 25.5 KC. INPUT 6.3 AC/DC, 233 DC, 285 DC VOLTS AND 3.2/0.73 /0.034 AMPS. SAME AS BASIC NUMBER EXCEPT FOR TUBE CHANGES WITH ASSOCIATED CIRCUIT ALTERATIONS. 4-6 SK7 INSTEAD OF 4-6D6; 2-6V6G7 INSTEAD OF 2-41; 3-6SJ7 INSTEAD 1/6/44 574U 767L MAR. 44 ALT 0	CWQ 46171	RBF-2	RADIO RECEIVER UNIT: FREQUENCY RANGE 70 TO 90 MC. TUNES FM ONLY 75 KC MAX. SKING. INCLUDES AUDIO OUTPUT SYSTEM RATED 5 WATTS. INCLUDES INTEGRAL THERMIONIC RECTIFIER OPERATING FROM 110/1/60. 5/17/42 JUNE 42	CGQ 46177	DAP	RADIO RECEIVER: FREQ RANGE 290 TO 550 KC. INCLUDES A CAPACITIVE BALANCER WITH CONVENTIONAL SENSE CIRCUIT WHICH ELIMINATES THE 180° AMBIGUITY AND ALSO A SENSE ANTENNA TELESCOPIC TO 36" FULLY EXTENDED. 0-500 MICROAMMETER PROVIDED FOR VISUAL NULL INDICATOR. SUPPLY 11/21/42 NOV. 45
OF 3-6C6.		CBM 46166-A	CRV 46172	AYA-2 & AYA-3	AIRCRAFT RADIO RECEIVER: FREQUENCY RANGE 490 TO 510 MC. INPUT 110 MA AT 500 VOLTS AND 1.8/0.9 AMP AT 12/24 VOLTS DC. SAME AS CRV-46143 EXCEPT FOR FITTINGS WHICH PROVIDE FOR SOLID CONCENTRIC TRANSMISSION LINE. 5/26/42 JUNE 42	CCQ 46177		200V DC, 50MA. SUPERHETERODYNE TYPE, FOR MOUNTING ON TYPE-1C153 MOUNTING BASE.
CID 46167	TCL-2	RADIO RECEIVER: (FM) FREQ RANGE 30 TO 42 MC. CRYSTAL CONTROLLED. POWER SUPPLY 110 VOLTS, .72 AMP 60 CY, 72 WATTS. RECEIVER TO ACCOMMODATE THE MAXIMUM CARRIER DEVIATION OF 20 KC. 4/10/42 CVX-1 A-1001 MAR. 43	CIP 46173	NJ-6	RECEIVER AMPLIFIER: TWO STAGES RF, DETECTOR, OUTPUT STAGE. RECTIFIER POWER UNIT OPERATES FROM 115/1/60, 75 WATTS AND IS INTEGRAL WITH THIS UNIT. FREQ. RANGE: 21.75 KC SIMILAR TO CBM-46131. 5/30/42 CIP:EC-835A CIP:10-1019 AUG. 42 CBM:835A ISSUE 1	CFT 46178	DAH, DAK	RADIO RECEIVER ASSEMBLY: FREQ. RANGE: 250 TO 1500 KC. INPUT IMPEDANCE 140 OHMS; OUTPUT IMPEDANCE 4 OHMS. MOUNTED IN STEEL CABINET. INCLUDES A 5" PM SPEAKER MOUNTED ON PANEL IN SAME CASE. INCLUDES INTEGRAL THERMIONIC RECTIFIER OPERATING FROM 115/1/60 6/15/42 CFT:135A CFT:F-36648-2-A SEPT 45
CW 46168	RBO	RADIO RECEIVER: FREQUENCY RANGE 132 TO 156 MCS. OPERATES CRYSTAL CONTROLLED ON ONE FREQUENCY IN THIS BAND. OPERATES FROM 115/1/60, .85 A, 85W. CONNECTS TO 70 OHM TRANSMISSION LINE. HAS SIGNAL SENSITIVITY OF 2 MICROVOLTS. AUDIO OUTPUT 30 MILLI- 4/13/42 D-150421 MAR. 43	CIA 46174	DAG	RADIO RECEIVER: FREQ. RANGE: 1.5 TO 18.2 MC. INCLUDES PROVISIONS TO PLUG IN ONE TYPE -66054. SENSE ANTENNA & ONE TYPE CIA-69077 PLUG-IN-LOOP OPERATES FROM SELF CONTAINED BATTERIES. 6/1/42 AUG. 42	CFT 46178		OFTEN REFERRED TO AS CLASS B RECEIVER. THIS IS THE COMMERCIAL VERSION OF -46183
		CW 46168	CIA 46174-A	DAG-1	RADIO RECEIVER: SAME AS BASIC NUMBER EXCEPT FOR REARRANGEMENT OF PANEL CONTROLS. ELECTRICAL- LY AND MECHANICALLY INTERCHANGEABLE WITH BASIC NUMBER. 3/5/43 MAY 43	CBM 46179	QFB	RECEIVER AMPLIFIER: CANCELLED FREQ. RANGE: 15 TO 37 MC. PLUG IN APPEARANCE TO, AND FRONT OF PANEL CONTROLS EXCEPT THE TUNING CONTROL PERFORMS SAME FUNCTION AS CBM-46061. INCLUDES CIRCUITS FOR MODULATING THE INCOMING SIGNAL WITH ALL THE NOISES DUE TO SHIP'S SPEED. SUB- 6/21/42 CBM:755K CBM:6019 ALT 0 AUG. 42
CBM 46169	WEA-2	RECEIVER-AMPLIFIER: FREQ RANGE 12 TO 25 KC. OPERATES FROM 115/1/60, .84 AMP, 75 WATTS TWO STAGES T.R.F. TUNED DETECTOR TWO STAGES AUDIO AND INTEGRAL THERMIONIC RECTIFIER. SAME AS TYPE CBM-46133 EXCEPT PROVISION HAS BEEN MADE FOR SELECTING EITHER RANGING OR 4/13/42 869A CBM:60134 OCT. 42 ALT 0	CRC 46175	DAF	RADIO RECEIVER: FREQUENCY RANGE: 80 TO 3500 DC. SUPPLY: 6 VOLTS 2.5 AMPS DC. AND 150 VOLTS 0.03 AMP DC. 6/9/42 CRC:102-YF AUG. 42	MARINE SPEED, PROJECTOR	CBM 46179	BEARING, REVERBERATION, DOPPLER EFFECT, AND SEMI-FIXED CONTROLS TO NAVY NOISE AS DICTATED BY PROBLEM CONDITIONS. OPERATES FROM TYPE CBM-20062-A POWER SUPPLY. CANCELLED -- REASSIGNED AS -50119
		LISTENING INPUT AND A SET OF JACKS INTEGRAL WITH THE AMPLIFIER ARE USED FOR CABLE CONNECTORS. CBM 46169	CNA 46176	RBT, RBT-1	RADIO RECEIVER UNIT: FREQ RANGE: 27 TO 280 MC. IN 6 BANDS. SPEAKER OUTPUT IMP. 7000 OHMS. SPEAKER AUDIO OUTPUT: 1 WATT. PHONE OUTPUT IMPEDANCE 20,000 OHMS. PHONE AUDIO OUTPUT 10 MH/POWER SUPPLY BATTERIES OR EXTERNAL POWER UNIT. POWER REQUIREMENTS, 6 VOLTS 6/11/42 CNA:ONE-TEN CNA:D-730 AUG. 42	CIP 46180	QBC	RECEIVER AMPLIFIER: FREQUENCY RANGE: 10 TO 50 KC. 6/24/42 AUG. 42
CPE 46170	RBR	RADIO RECEIVER: FREQUENCY RANGE 2000 TO 20000 KC. EACH RECEIVER IS SUPPLIED WITH ONE OF THE FOLLOWING CRYSTALS 2436, 3155, 4105, 6630, 7015 KC. USED WITH NAVY TYPE CPE-10158 CASE. 5/16/42 RBR 300.202 AUG. 44	AC OR DC, 1.6 AMPS, 180 VOLTS DC, 35 MA. TUBES 1-954, 1-955, 1-605, 1-6F6.	CNA 46176	CBY 46181	ARA-2	AIRCRAFT RADIO RECEIVER: FREQUENCY RANGE: 520 TO 1500 KC. OPERATES FROM NOMINAL 12 VOLTS DC SOURCE. IDENTICAL TO CBY-46145 AIRCRAFT RADIO RECEIVER EXCEPT THAT VACUUM TUBE HEATER WIRING IS DESIGNED FOR 12 VOLTS OPERATION. 6/28/42 AUG. 42	

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**CBY 46182** ARA-2  
RECEIVER RACK:  
FOR MOUNTING ONE RECEIVER OF THE PHYSICAL TYPE CBY-46131. IDENTICAL TO CBY-46157 RECEIVER RACK EXCEPT THAT RELAY COIL IS WOUND FOR 12 VOLTS DC OPERATION. SAME AS MT-411/ARC-5X.

6/28/42 7509-2-B  
MAY 45

**CFT 46133** DAK-1 DAK-1  
RADIO RECEIVER ASSEMBLY:  
FREQ RANGE: 250 TO 1500 KC. INPUT IMPEDANCE 140 OHMS; OUTPUT IMPEDANCE 4 OHMS. MOUNTED IN STEEL CABINET. INCLUDES A 5" PM SPEAKER MOUNTED ON PANEL IN SAME CASE INCLUDES INTEGRAL THERMIONIC RECTIFIER OPERATING FROM 115/1/60. SIMILAR TO 7/1/42 CFT:134A  
SEPT 45

**CFT 46183**  
-46178 BUT OF BETTER DESIGN. OFTEN REFERRED TO AS THE CLASS A RECEIVER.

**CFT 46133-A** DAK-2  
RADIO RECEIVER ASSEMBLY  
FREQ RANGE: 250 TO 1500 KC. INPUT IMPEDANCE 140 OHMS; OUTPUT IMPEDANCE IS 4 OHMS. MOUNTED ALUMINUM-STEEL CABINET. INCLUDES A 5" PM SPEAKER MOUNTED ON PANEL IN SAME CASE. INCLUDES INTEGRAL RECTIFIER OPERATING FROM 115/1/60.  
8/27/43  
NOV. 45

**CFT 46183-A**  
REFERRED TO AS CLASS A RECEIVER. SAME AS -46183 BUT HAS ALUMINUM CHASSIS, FRONT PANEL AND WRAP AROUND.

**CFT 46184** \* SEE BELOW  
RADIO RECEIVER ASSEMBLY:  
INPUT IMPEDANCE 140 OHMS. OUTPUT IMPEDANCE 600 OHMS. MOUNTED ON STEEL RACK. INCLUDES 8" PM JENSEN SPEAKER MOUNTED ON SAME RACK. OPERATES FROM OUTPUT OF RECTIFIER POWER SUPPLY. CFT-20159. DOES = VAL. DAM. DAN. QAO  
7/6/42 F-36141-2  
AUG. 45 ISSUE A

NOT INCLUDE COILS. HAS **CFT 46184** SOCKETS FOR ANTENNA COIL ASSEMBLIES CFT-47235 TO CFT-47239 INCLUSIVE AND SENSE NETWORK ASSEMBLIES CFT-14002 TO CFT-14005 INCLUSIVE. TWO ANTENNA COILS AND ONE SENSE NETWORK USED FOR ANY ONE BAND AND AT ANY ONE TIME.

**CNR 46185** ML-2  
RADIO RECEIVER: FREQ RANGE 1550 TO 4200 KC (CONTINUOUSLY VARIABLE). INCLUDES 10 PRE-SELECTED CRYSTALS WITHIN THE 2000 TO 3000 KC BAND. POWER SUPPLY 32 VOLTS DC. INPUT CURRENT 2 AMPS. SAME AS CHR-46135 EXCEPT FOR AUDIO TUBES AND CURRENT DRAIN AND POWER SUPPLY.  
7/8/42 CNR:763A  
MAR. 42

**CIA 46186** RBF-1  
RADIO RECEIVER:  
FREQUENCY 70 TO 90 MC. FOR FM SIGNALS OF 75 KC MAX. SWING. INPUT: 270 VOLTS 88 MA DC AND 6.3 VOLTS 3 AMPS DC.

7/20/42  
AUG. 42

**CNA 46187** RAO-2  
RADIO RECEIVER:  
FREQUENCY RANGE .54 TO 30 MC; INCLUDES ONE INTERNAL RECTIFIER POWER SUPPLY FOR OPERATION FROM 115/1/60 OUTPUT IMPEDANCE IS 600 OHMS. INCLUDES A PRESELECTION CIRCUIT.

7/25/42 D-855  
OCT. 42

**CWQ 46187-A** RAO-3  
RADIO RECEIVER:  
FREQUENCY RANGE: 0.54 TO 30 MC. INCLUDES A PRESELECTION CIRCUIT AND AN INTERNAL RECTIFIER POWER SUPPLY FOR OPERATION FROM 115/1/50 TO 60. OUTPUT IMPEDANCE IS 600 OHMS. ELECTRICALLY AND MECHANICALLY INTERCHANGEABLE WITH CNA-46187. 60 WATTS  
4/14/43 CWO:25A757  
MAR. 44 REV 0

**CWQ 46187-B** RAO-4  
RADIO RECEIVER:  
FREQUENCY RANGE: 0.54 TO 30 MC. INCLUDES A PRESELECTION CIRCUIT AND AN INTERNAL RECTIFIER POWER SUPPLY FOR OPERATION FROM 115 OR 230/1/50 TO 60. OUTPUT IMPEDANCE IS 600 OHMS. SAME AS CWQ-46187-A EXCEPT FOR POWER SUPPLY. 60 W.  
4/14/43 CWO:25A757  
MAR. 44 REV 0

**CNA 46187-C** RAO-2  
RADIO RECEIVER  
FREQ RANGE 0.54 TO 30 MC. INCLUDES AN INTERNAL RECTIFIER POWER SUPPLY FOR OPERATION FROM 115/1/60. OUTPUT IMPEDANCE IS 600 OHMS. INCLUDES PRESELECTION CIRCUIT. SAME AS -46187 EXCEPT INCLUDES CONCENTRIC ANTENNA JACK (ANTENNA BLISTER)  
12/16/43 CANCELLED H-319  
DEC. 44

**CNA 46187-C**  
CORD AND PLUG IS OMITTED AND MINOR MODIFICATION IN COMPONENTS. INPUT CURRENT. 55. INPUT WATTAGE 60.

**CNA 46187-D** RAO-6  
RADIO RECEIVER  
FREQUENCY RANGE 0.54 TO 30 MC. INCLUDES AN INTERNAL RECTIFIER POWER SUPPLY FOR OPERATION FROM 115/1/60. OUTPUT IMPEDANCE IS 600 OHMS. SAME AS -46187-C EXCEPT INCLUDES PANORAMIC ADAPTER JACK. INPUT CURRENT. 55 INPUT VOLTAGE 60.  
12/16/43 BM-122 F-679  
DEC. 44

**CNA 46187-D**  
SAME AS 46187-C EXCEPT FOR ADDITION OF CONCENTRIC ANTENNA PLUG AND JACK.

**CNA 46188** RBH-1  
RADIO RECEIVER:  
FREQUENCY RANGE .3 TO 1.2 AND 1.7 TO 16 MC. INCLUDES ONE INTERNAL RECTIFIER POWER SUPPLY FOR OPERATION FROM 115/1/60 OUTPUT IMPEDANCE IS 600 OHMS. IN CLUDES A PRESELECTION CIRCUIT.

7/25/42 D-857  
OCT. 42

**CNA 46188-A** RBH-2  
RADIO RECEIVER  
FREQ RANGE 0.3 TO 1.2 AND 1.7 TO 16 MC. INCLUDES AN INTERNAL RECTIFIER POWER SUPPLY FOR OPERATION FROM 115/1/60. OUTPUT IMPEDANCE 600 OHMS. INCLUDES A PRESELECTION CIRCUIT. SAME AS -46188 EXCEPT INCLUDES CONCENTRIC ANTENNA JACK  
12/16/43 BM-124 F-678  
DEC. 44

**CNA 46188-A**  
(ANTENNA BLISTER), CORD AND PLUG IS OMITTED AND MINOR MODIFICATION IN COMPONENTS.

**CFJ 46189** CXBV  
RADIO RECEIVER:  
FREQUENCY RANGE 100 TO 156 MC. OPERATES ON 28 (22 TO 32) VOLTS. 1.1 AMPS DC, AND 250 VOLTS, 60 MA DC. INCLUDES 8 POSITION SPOT TUNER.

7/25/42 F-101-1  
AUG. 42

**CTV 46190** CXBU  
RADIO RECEIVER:  
FREQUENCY RANGE 2 TO 4.2 MC. OPERATES FROM BUILT-IN 6 VOLT DC VIBRATOR POWER SUPPLY. CAPABLE OF OPERATION ON 2 CRYSTAL CONTROLLED CHANNELS, ONE FOR PRIMARY FREQUENCY AND THE OTHER FOR SECONDARY FREQUENCY OPERATION.  
7/27/42  
AUG. 42

**CCI 46191** CXBU -1  
RADIO RECEIVER; FREQUENCY 2 TO 4.2 MC. OPERATES FROM BUILT-IN 6 VOLT DC VIBRATOR POWER SUPPLY. CAPABLE OF OPERATION ON 2 CRYSTAL CONTROL CHANNELS, ONE FOR PRIMARY FREQUENCY AND THE OTHER FOR SECONDARY FREQUENCY OPERATION. CRYSTALS HAVE 2436 KC AND 4150 KC FREQ.  
7/27/42  
AUG. 42

**RA 46192** DAR  
RADIO RECEIVER: FREQUENCY RANGE 1 TO 20 MC SUPERHETRODYNE BRITISH TYPE B21A. ADMIRALTY PATTERN NO X 1516. MFG. BY MARCONI WIRELESS TELEGRAPH CO. HFD. AND MODIFIED BY NAVAL RESEARCH LABORATORY. INPUT: 6.3VAC, 3.5 AMPS, -27VDC, 2MA AND 180VDC, 100MA.  
8/17/42 SEE DESCRIPTION  
AUG. 45

**CHL 46193** RBX  
RADIO RECEIVER:  
FREQ RANGE 130 TO 210 MC. FREQ MODULATION OR AMPLITUDE MODULATION. SUPPLY 115/230 VOLTS, 1 PHASE, 50/60 CYCLES.

8/27/42 S27CA 920062  
MAR. 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
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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						
CFT 46104 DAQ				RADIO RECEIVER: FREQUENCY RANGE: 1.5 TO 30 MC. INPUT: 115/1/60, 0.98 AMP, 112 WATTS			CHL 46199 RCB				RADIO RECEIVER: PORTABLE, FREQ RANGE .55 TO 29.5 MC, 4 BANDS (550 TO 1490 KC, 1.5 TO 4.2 MC, 4.2 TO 11.5 MC, 11.4 TO 29.5 MC). OPERATES FROM 110 TO 125 VOLTS AC OR DC, OR INTERNAL BATTERIES. INCLUDES BAND SPREAD, RF GAIN CONTROL, AVC, BFO, ANL, SEND-RECEIVE 12/10/42 S-29 (SKYTR) CHL:92CO80 MAR. 44			CW0 46204 RBF-3				RADIO RECEIVER: SIMILAR TO TYPE-46171 EXCEPT FOR ELECTRICAL AND MECHANICAL CHANGE FOR IMPROVED OPERATION AND OUTPUT WATTAGE DECREASED TO 1/2 WATT.				1/26/43 MAY 43		
8/29/42 SEPT 43			RF-971-2A	CFT 46194-A DAU			STAND-BY SWITCHES, CHL 46199			CU0 46205 GENERAL USE* RE 13A 776A														
RADIO RECEIVER				FREQUENCY RANGE 1.5 TO 30 MC. INPUT 115/1/60. SAME AS -46104 EXCEPT HAS PANORAMIC ADAPTOR OUTPUT RECEPTACLE WHICH IS CONNECTED TO THE IF BY A SHORT PIECE OF TRANSMISSION LINE.			PHONE JACK, BUILT-IN DYNAMIC SPEAKER AND TELESCOPIC WHIP ANTENNA. INCLUDES 2-45V (BURGESS B-30, EVEREADY 762), 1-6 V NAVY TYPE -19020 (BURGESS 2F4, EVEREADY 718), 1-1.5V NAVY TYPE -19031 (BURGESS #2, EVEREADY 950) BATTERIES. 7" HIGH 8 1/2" WIDE, 13 1/4" DEEP. INPUT: 117V 0.34 AMPS, 40W. SIMILAR TO NAVY TYPE -46240 EXCEPT INCLUDES BATTERY CHARGING FEATURE.			RF TO IF CONVERTER-BAND A: B 135A			FREQ. RANGE 45 TO 120 MC. OUTPUT FREQ. 195 KC TO 5 MC. OPERATES FROM EXTERNAL BATTERY SUPPLY NAVY TYPE-19047. SENSITIV- ITY 100 MICROVOLTS. WEIGHT APPROX. 4 POUNDS. SIZE 4" X 5" X 6". SIMILAR TO NAVY TYPE. *RP920-3A, EN28/3479-43/AVIA 2/24/43 CU0:52A NOV. 43											
7/9/43 MAR. 44			CFT:SPEC NDS-129	CANCELLED			CNA 46200 RCG			CU0 46206 GENERAL USE* RE 13A 776A			CU0 46207 GENERAL USE* RE 13A 776A											
CHL 46195 RBY				RADIO RECEIVER: FREQ RANGE .55 TO 43 MC. (550 TO 1610 KC, 1.5 TO 3.05 MC, 2.9 TO 5.86 MC, 5.75 TO 11.5 MC, 10.4 TO 21 MC, 20.7 TO 43 MC). OPER- ATES FROM 115/1/60. BEAT FREQ OSCILLATOR CRYSTAL PHASING, PUSH-PULL HIGH FIDELITY AUDIO OUTPUT. PROVIDES FOR PHONO AND 10/1/42 CHL: SX-28 AUG. 44 MODIFIED			HAS PROVISION FOR PHONES OF 2000 TO 3000 OHM IMPEDANCE. INCLUDES BFO, AVC, ELEC- TRICAL BAND SPREAD, RF GAIN CONTROL. HAS PROVISIONS FOR DOUBLET ANTENNA. UNIT IS SHOCK-MOUNTED AND WEIGHS 33 LBS.			FREQ RANGE 100 TO 350 MC. OUTPUT FREQ. 195 KC TO 5 MC. OPERATES FROM EXTERNAL BATTERY SUPPLY NAVY TYPE-19047. SENSITIV- ITY 100 MICROVOLTS. WEIGHT APPROX. 4 LBS. SIZE 4" X 5" X 6". INPUT 6.3V AC/DC *RP920-3B, EN28/3479-43/AVIA 2/24/43 CU0:52B NOV. 43			FREQ. RANGE 335 TO 545 MC. OUTPUT FREQ. 35 KC TO 5 MC. OPERATES FROM EXTERNAL ATTERY SUPPLY NAVY TYPE-19047. SENSITIV- ITY 100 MICROVOLTS. WEIGHT APPROX. 4 LBS SIZE 4" X 5" X 6". INPUT 6.3V AC/OC *P920-3C, EN28/3479-43/AVIA 2/24/43 CU0:52C NOV. 43											
SPEAKER OUTPUT. FOR RACK MOUNTING. DOES NOT INCLUDE HOUSING. INCLUDES RECEPTACLE FOR PANORAMIC ADAPTER. INPUT CUR- RENT: 1.82A. POWER RATING 168W.			CHL 46195			CNA 46200			CU0 46206			CU0 46207												
CW- 46196 ZBX				AIRCRAFT RADIO RECEIVER: FREQ RANGE 234 TO 258 MC; INCLUDES CIR- CUITS WHICH PERMIT 6 CHANNEL OPERATION OF MODULATED SIGNAL WITHIN THE RANGE 540 TO 830 KC WHEN DOUBLE MODULATED BY A1, A2, OR A3. INCLUDES (7) 9001, (3) 6AX5 AND (1) 12A6 VACUUM TUBES. INPUT: 10/6/42 ESXX-591465 AUG. 43 ISSUE 2			RA-46201 RBZ, RU/19			CU0 46204			CU0 46205											
12 VOLTS DC.			AMPS DC AND 250 VOLTS 60MA	CW-46196			RF TO IF CONVERTER: FREQUENCY RANGE 45 TO 110 MC. OUTPUT FRE- QUENCY 195 KC TO 5 MC. OPERATES FROM EX- TERNAL BATTERY SUPPLY NAVY TYPE RA-19039 WEIGHT APPROXIMATELY 4 POUNDS. SIZE 4" X 6" X 6". SENSITIVITY 100 MICROVOLTS.			FREQ RANGE 45 TO 110 MC. OUTPUT FRE- QUENCY 195 KC TO 5 MC. OPERATES FROM EX- TERNAL BATTERY SUPPLY NAVY TYPE RA-19039 WEIGHT APPROXIMATELY 4 POUNDS. SIZE 4" X 6" X 6". SENSITIVITY 100 MICROVOLTS.			FREQ RANGE 45 TO 110 MC. OUTPUT FREQ. 195 KC TO 5 MC. OPERATES FROM EXTERNAL ATTERY SUPPLY NAVY TYPE-19047. SENSITIV- ITY 100 MICROVOLTS. WEIGHT APPROX. 4 LBS SIZE 4" X 5" X 6". INPUT 6.3V AC/OC *P920-3C, EN28/3479-43/AVIA 2/24/43 CU0:52C NOV. 43			FREQ RANGE 45 TO 110 MC. OUTPUT FREQ. 195 KC TO 5 MC. OPERATES FROM EXTERNAL ATTERY SUPPLY NAVY TYPE-19047. SENSITIV- ITY 100 MICROVOLTS. WEIGHT APPROX. 4 LBS SIZE 4" X 5" X 6". INPUT 6.3V AC/OC *P920-3C, EN28/3479-43/AVIA 2/24/43 CU0:52C NOV. 43								
CDE 46197 *SEE BELOW				CONTROL RADIO RECEIVER: AUXILIARY RECEIVER USED WITH NAVY TYPE CDE-46120 "GLIOE PATH RECEIVER WITH MOUNTING BASE." COMBINED SIGNAL USED FOR STRAIGHT LINE LANDING.			FOR FILAMENTS. CHL 46202			CU0 46206			CU0 46207											
*NOS-72521 FOR USE WITH ZA				10/27/42 CDE:1044 AUG. 43			SPEAKER OUTPUT 500 OR 5000 OHMS. PHONE OUTPUT 600 OHMS. ALSO INCLUDES CABINET. POWER DRAIN FOR AC OPERATION IS 138 WATTS. FOR 115 VOLT AC OPERATION LINE CURRENT IS 1.3 AMPS. FOR 230V. AC. 0.6 AMP. POWER DRAIN FOR 6V DC OPERATION IS 108 WATTS. CURRENT DRAIN FOR 6-VOLT OPERATION IS 18 AMPS.			FREQ RANGE 45 TO 110 MC. OUTPUT FREQ. 195 KC TO 5 MC. OPERATES FROM EXTERNAL ATTERY SUPPLY NAVY TYPE-19047. SENSITIV- ITY 100 MICROVOLTS. WEIGHT APPROX. 4 LBS SIZE 4" X 5" X 6". INPUT 6.3V AC/OC *P920-3C, EN28/3479-43/AVIA 2/24/43 CU0:52C NOV. 43			FREQ RANGE 45 TO 110 MC. OUTPUT FREQ. 195 KC TO 5 MC. OPERATES FROM EXTERNAL ATTERY SUPPLY NAVY TYPE-19047. SENSITIV- ITY 100 MICROVOLTS. WEIGHT APPROX. 4 LBS SIZE 4" X 5" X 6". INPUT 6.3V AC/OC *P920-3C, EN28/3479-43/AVIA 2/24/43 CU0:52C NOV. 43			FREQ RANGE 45 TO 110 MC. OUTPUT FREQ. 195 KC TO 5 MC. OPERATES FROM EXTERNAL ATTERY SUPPLY NAVY TYPE-19047. SENSITIV- ITY 100 MICROVOLTS. WEIGHT APPROX. 4 LBS SIZE 4" X 5" X 6". INPUT 6.3V AC/OC *P920-3C, EN28/3479-43/AVIA 2/24/43 CU0:52C NOV. 43								
CNA 46198 RCE				RADIO RECEIVER: INTERMEDIATE FREQUENCY 456KC FOR OP- ERATION FROM 6.3 VOLTS, 3.4 AMPS A.C. & 180 TO 240 VOLTS, 50 TO 70 MA DC. FOR RACK MOUNTING. SIMILAR TO CNA-46081 RADIO RECEIVER.			CEX 46203 RBZ			CU0 46204			CU0 46205											
11/12/42 HRO-M-RR			CNA:E-909	1/15/43 RBZ:RBZ			SPEC. E-3358			3/27/43 CBM:755H			CBM:5K-5706											
AUG. 43				MAY 43						MAY 43			ALT 0											
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	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
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**CZC 46209 RCH**  
 RADIO RECEIVER:  
 FREQ. RANGE: 80 TO 560 KC AND 1.9 TO 24 MC IN FIVE BANDS. INPUT: 115/1/60. HAS PROVISION FOR PLUGGING IN EITHER PHONES OR A 600 OHMS LOUD-SPEAKER. HAS INTERNAL RECTIFIER. INCORPORATES FEATURES TO PREVENT RADIATION OF VOLTAGE FROM THE HF 3/29/43 SLR-F  
 MAY 43

**CUO 46211 GEN USE RE 13A 777A**  
 RF TO IF CONVERTER ASS-  
 EMBLY: EQUIVALENT TO A COMBINATION OF -46205, -46206, -46207 RF TO IF CONVERTERS. HAS A BUILT-IN RECTIFIER POWER SUPPLY. OPERATES FROM 115/1/60. FREQ RANGE: 45MC TO 585MC. OUTPUT FREQ 195KC TO 5MC.  
 5/77/43  
 SEPT 43

**CFE 46216 DAS-1**  
 RADIO RECEIVER: INPUT: 115/1/60, 0.46 AMPS, 50 WATTS. 9 TUBE, WIDE BAND SUPERHETERODYNE RECEIVER, WHICH RECEIVES 2 RADIO SIGNALS SIMULTANEOUSLY AND OPERATES ON 4 PREDETERMINED FIXED FREQUENCIES.  
 6/24/43  
 SEPT 43

**CZC 46209**

OSCILLATOR THROUGH THE ANTENNA.

**CUO 46212 GEN USE RE 13A 779A**  
 RF TO IF CONVERTER  
 (RANGE A): FREQ RANGE 40 TO 195 MC. OUTPUT FREQ 195KC TO 5MC. OPERATES FROM EXTERNAL BATTERY SUPPLY NAVY TYPE -19047 SENSITIVITY 100 MICROVOLTS. WEIGHT APPROX. 4 POUNDS. SIZE 4" X 5" X 6". SIMILAR TO NAVY TYPE -46205. INPUT: 5/15/43 CUO:512  
 SEPT 43

**CFE-46216-A DAS-3**  
 RADIO RECEIVER:  
 INPUT 115/1/60, 0.46 AMP, 50 WATTS. 9 TUBE, WIDE BAND SUPERHETERODYNE RECEIVER WHICH RECEIVES 2 RADIO SIGNALS SIMULTANEOUSLY AND OPERATES ON 4 PREDETERMINED FIXED LOW FREQUENCIES. SAME AS -46216 EXCEPT HAS 50 OHM INPUT IMPEDANCE TO PRO 7/5/44 300.352  
 AUG. 44 ALT 0

**CG-46210 DAS**  
 RADIO RECEIVER-INDICATOR:  
 INPUT 115/230 V, SINGLE PHASE, 50 TO 60 CYC AT APPROXIMATELY 2.2/1.1 AMPS, 240 WATTS. INCLUDES CATHODE RAY INDICATOR CALIBRATED TO READ MICROSECONDS TIME DIFFERENCE BETWEEN 2 INCOMING SIGNALS HAS 25 CPS SWEEP CIRCUIT MAY BE REAJUST- 4/12/43 CG:W-19J 709  
 AUG. 44 REV 0

**CUO 46212**  
 6V AC/DC OR 28 V DC AND 270 V DC.

**CFE-46216-A**  
 VIDE BETTER MATCH WITH TRANSMISSION LINE.

**CG-46210**

ED FOR 33 1/3 CPS SWEEP.

**CUO 46213 GEN USE RE 13A 779A**  
 RF TO IF CONVERTER  
 (RANGE B): FREQ RANGE 180 TO 500MC. OUTPUT FREQ 195KC TO 5MC. OPERATES FROM EXTERNAL BATTERY SUPPLY. NAVY TYPE -19047. SENSITIVITY 100 MICROVOLTS. WEIGHT APPROX 4 POUNDS. SIZE 4" X 5" X 6". SIMILAR TO NAVY TYPE -46205. INPUT: 5/15/43 CUO:513  
 SEPT 43

**CFE-46216-B DAS-1B**  
 RADIO RECEIVER:  
 INPUT 115/1/60, 0.46 AMPS, 50 WATTS. 9 TUBE, WIDE BAND SUPERHETERODYNE RECEIVER WHICH RECEIVES 2 RADIO SIGNALS SIMULTANEOUSLY AND OPERATES ON 4 PREDETERMINED FIXED FREQUENCIES. SAME AS -46216 EXCEPT HAS 2 HIGH AND 2 LOW FREQUENCY 8/17/44  
 AUG. 44

**CG-46210-A DAS-2**  
 RADIO RECEIVER INDICATOR  
 CONSISTS OF THE FOLLOWING NAVY TYPES. (1) CG-10323 MOUNTING RACK, (1) CG-20288 RECTIFIER POWER UNIT, (1) CG-46244 RADIO RECEIVER, (1) CG-55147 INDICATOR UNIT. SAME AS NAVY TYPE -46210 EXCEPT INDICATOR INCLUDES 25/33 1-3 REPETITION RATE SWITCH 2/15/44  
 MAR. 44

**CUO 46213**  
 6V AC/DC OR 28 V DC AND 270 V DC.

**CFE-46216-B**  
 CHANNELS CHANGED TO 4 LOW FREQ. CHANNELS.

**CG-46210-B DAS-b,DAS-2a**  
 RADIO RECEIVER INDICATOR:  
 CONSISTS OF (1) CG-10323 MOUNTING RACK, (1) CG-20288 RECTIFIER POWER UNIT, (1) CG-46244-A RADIO RECEIVER (1) CG-55147 INDICATOR UNIT. SAME AS CG-46210-A EXCEPT HAS 4LF CHANNELS INSTEAD OF 2 LOW AND 2 HIGH. 8/17/44  
 NOV. 44

**CUO 46214 GEN USE RE 13A 779A**  
 RF TO IF CONVERTER  
 (RANGE C): FREQ RANGE 480 TO 700MC. OUTPUT FREQ 195KC TO 5MC. OPERATES FROM EXTERNAL BATTERY SUPPLY NAVY TYPE -19047 SENSITIVITY 100 MICROVOLTS. WEIGHT APPROX 4 POUNDS. SIZE 4" X 5" X 6". SIMILAR TO NAVY TYPE -46207. INPUT: 5/15/43 CUO:514  
 SEPT 43

**CCT 46217 RBS**  
 RADIO RECEIVER:  
 FREQ RANGE: 2.0 TO 20.0MC. INPUT: 12 V DC, 2.0 AMPS AND 205 V DC, 0.07 AMPS.  
 6/28/43 D-6733 B-5856  
 NOV. 43

**CG-46210-C DAS-3M,DAS-2M**  
 RADIO RECEIVER INDICATOR  
 CONSISTS OF (1) CG-10323 MOUNTING RACK (1) CG-20288 RECTIFIER POWER UNIT (1) CG-46244 RADIO RECEIVER (1) CG-55147-A INDICATOR UNIT. SAME AS -46210-A EXCEPT MODIFIED TO PROVIDE FOR 2 MICROSECONO MARKERS. 12/20/44  
 FEB. 45

**CUO 46214**  
 6V AC/DC OR 28VDC AND 270VDC.

**CCT-46217-A RBS-2**  
 RADIO RECEIVER:  
 FREQ. RANGE: 2 TO 20 MC. INPUT: 12/1/60 2 AMPS AND 205V DC, 0.07 AMPS. SAME AS -46217 EXCEPT INCLUDES -49995 PLUG ADAPTER ASSEMBLY AND REMOVABLE MOUNTING PLATE FOR TABLE MOUNTING.  
 5/7/45 45329  
 JUN. 45

**CG-46210-D DAS-3M,DAS-2M**  
 RADIO RECEIVER INDICATOR  
 CONSISTS OF (1) CG-10323 MOUNTING RACK (1) CG-20288 RECTIFIER POWER UNIT (1) CG-46244-A RADIO RECEIVER (1) CG-55147-A INDICATOR UNIT. SAME AS 46410-B EXCEPT MODIFIED FOR 2 MICROSECOND MARKERS. 12/22/44  
 FEB. 46

**RA-46215 \*SEE BELOW**  
 RADIO RECEIVER:  
 FREQ RANGE 240 TO 250MC. OPERATES FROM 110/1/60.  
 \*FOR USE WITH YL.  
 6/19/43  
 SEPT 43

**CM-46218 OBC**  
 RECEIVER AMPLIFIER-DETECTOR  
 INCLUDES A THREE STAGE RESISTANCE COUPLED AMPLIFIER, THE OUTPUT BEING SPLIT INTO TWO IDENTICAL HALVES WITH THE POLING SUCH THAT ONE HALF RECTIFIES AND TRANSMITS A POSITIVE PULSE AND THE OTHER A NEGATIVE PULSE. THE PULSE IS THEN FED 8/19/43 X-63637C-1 CM2X-63637C-1  
 NOV. 43 ISSUE 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
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Class 46—Receiver Units and Converters

3.46-15

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
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**CW-46218**  
 THROUGH A TWO STAGE AMPLIFIER AND APPLIED TO A RECTIFIER, THE LOAD ON WHICH IS TWO CAPACITORS IN SERIES. THE VOLTAGE RECEIVED BY ONE CONDENSER DETERMINES THE READING OF THE RECORDING METER.

**CRV-46222 QGB**  
 RECEIVER  
 SUPPLY: +300V DC AND -210V DC. FREQUENCY RANGE: 17 TO 26 KC. FUNCTIONS AS BOTH AUDIBLE ECHO PULSE AND BEARING DEVIATION RECEIVER

**CZC-46225-A**  
 300 OHM RESISTORS IN SERIES ACROSS OUTPUT TERMINALS, AND GROUNDING CENTER TAP OF THE RESISTORS; AND SUBSTITUTING 5000 OHM FEEDBACK RESISTOR FOR 10,000 OHM RESISTOR ACROSS THE LINE TERMINATION.

9/26/43 MI-16719  
 NOV. 43

CRV:H-306807  
 SUB 2

**CCI-46219 RDE**  
 RADIO RECEIVER  
 OPERATES FROM 110/1/60. INCLUDES BUILT-IN RECTIFIER, MOUNTS ON STANDARD 19 INCH RACK. CRYSTAL CONTROLLED. HAS PROVISIONS FOR NAVY TYPES -47363, -47364, -47365 OR -47366 COIL SETS TO PROVIDE FREQUENCY RANGES OF 2-2.8 MC, 2.8-4.0 MC, 4-5.5  
 9/17/43 82-F  
 FEB. 45

**CZC-46223 RCK**  
 RADIO RECEIVER  
 FREQ RANGE: 115 TO 156 MC. INPUT: 110-120/1/55-65, 110 WATTS. OUTPUT: 165 MILLIWATTS ACROSS 600 OHM LOAD, CONTAINS BUILT-IN RECTIFIER, HAS PROVISIONS FOR CONNECTION TO HEADPHONES AND LOUDSPEAKER AND PLUGS AND RECEPTACLES FOR CONNECTION  
 10/4/43  
 NOV. 43

**CMX-45226 RCT**  
 RADIO-PHOTOGRAPH COMBINATION  
 FREQ. RANGE (3 BANDS): 535 TO 1720 KC 1657 TO 5630 KC, AND 5600 TO 18000KC. INPUT: 110 OR 220/1/50 TO 60, 210 WATTS. OUTPUT: 20 WATTS AT 3% DISTORTION AT 400 CYCLES. ENCLOSED IN A WALNUT CABINET CONTAINING: RECEIVER; 12" DYNAMIC 11/15/43 MODEL 42HY XE690390  
 AUG. 44 STYLE CPA699

**CCI-46219**  
 MC AND 5.5-8.0 MC, RESPECTIVELY. FIXED TUNE RECEIVER. TYPE NUMBER DOES NOT INCLUDE COIL SETS. IF FREQUENCY 455 KC.

**CZC-46223**  
 TO POWER SUPPLY AND ANTENNA BUT NO CABLE, HEADPHONES, LOUDSPEAKER OR ANTENNA ARE SUPPLIED.

**CMX-45226**  
 SPEAKER WITH 5 OHM VOICE COIL; 12" DYNAMIC SPEAKER WITH 6 OHM VOICE COIL AND 5000 OHM PUSH PULL TRANSFORMER; AND MOTOR BOARD ASSEMBLY MADE UP OF A CRYSTAL PICKUP, 33 1/3 TO 78 RPM MOTOR WITH 12" TURNTABLE, AND ON-OFF SWITCH.

**CCI-46219-A RDE-1**  
 RADIO RECEIVER  
 SUPPLY: 110/1/60. INCLUDES BUILT-IN RECTIFIER. MOUNTS ON STANDARD 10" RACK. CRYSTAL CONTROLLED. HAS PROVISIONS FOR NAVY TYPES -47363, -47364, -47365 OR -47366 COIL SETS TO PROVIDE FREQUENCY RANGES OF 2-2.8 MC, 2.8-4.0 MC, 4-5.5  
 1/13/45 82F-R  
 FEB. 45

**CZC-46224 RBO-1**  
 RADIO RECEIVER  
 FREQ RANGE: 0.53 TO 1.6, 5.55 TO 9.55, 9.2 TO 15.6 MC. INPUT TO SELF CONTAINED POWER SUPPLY IS 110-125/1/58-62, 85 WATTS. HAS PROVISIONS FOR CONNECTION TO: HEADPHONES (600 OHM OUTPUT), THREE LOUDSPEAKER (5000, 600, 60 OHM OUTPUTS),  
 10/7/43 LR-12-1  
 NOV. 43

**CMX-46227 RCU**  
 RADIO-PHOTOGRAPH COMBINATION  
 FREQ RANGE (3 BANDS): 535 TO 1720 KC, 1667 TO 5630 KC, AND 5600 TO 18000 KC. INPUT: 110 OR 220/1/50 TO 60, 210 WATTS. OUTPUT: 20 WATTS AT 3% DISTORTION AT 400 CYCLES. ENCLOSED IN A WALNUT CASE CONTAINING: RECEIVER; 12" DYNAMIC SPEAKER 11/15/43 MODEL 42Y XE690390  
 AUG. 44 STYLE CPAR700

**CCI-46219-A**  
 MC AND 5.5-8.0 MC, RESPECTIVELY. FIXED TUNED RECEIVER. TYPE NO. DOES NOT INCLUDE COIL SETS. IF FREQUENCY 455 KC. SAME AS -46219 EXCEPT FOR CHANGE IN DETECTOR CIRCUIT TO IMPROVE PERFORMANCE.

**CZC-46224**  
 ANTENNA, PHONOGRAPH PICKUP (.5 MEG OUTPUT). SAME AS TYPE -46139 EXCEPT HAS LOCK FOR TUNING CONTROL, NOISEPEAK LIMITER CIRCUIT ADDED, RECTIFIER TUBES CHANGED.

**CMX-46227**  
 WITH 5 OHM VOICE COIL; 12" DYNAMIC SPEAKER WITH 6 OHM VOICE COIL AND 5000 OHM PUSH PULL TRANSFORMER; AN AUTOMATIC RECORD CHANGER WHICH ACCOMMODATES 14 TEN INCH OR 10 TWELVE INCH RECORDS.

**CCI-46220 RCO**  
 RADIO RECEIVER  
 FREQ RANGE: 100 TO 156 MC INPUT: 115/1/60, 60 WATTS. UHF SUPERHETERODYNE CRYSTAL CONTROLLED RECEIVER. MAXIMUM POWER OUTPUT AT 135 MC IS 0.7 MICROWATTS INTO 56 OHMS. DESIGNED FOR RACK MOUNTING.  
 9/24/43 MODEL 132  
 NOV. 43

**CZC-46225 RBO-2**  
 RADIO RECEIVER  
 FREQ. RANGE: 0.53 TO 1.6, 5.55 TO 9.55, 9.2 TO 15.6 MC. SUPPLY 110-125 VOLTS. 19 58 TO 62 CYCLES, 85 WATTS. SAME AS CZC-46224 EXCEPT (1) 6X6-GT TUBE REPLACED BY 6V6-GT (2) ANTENNA INPUT CIRCUIT MODIFIED (3) HINGED COVER WILL BE  
 11/5/43  
 NOV. 43

**CMX-46227-A RCU-2**  
 RADIO PHONOGRAPH COMBINATION:  
 FREQUENCY RANGE IN 3 BANDS: 535 TO 1720 KC; 1667 TO 5630 KC; 5.6 TO 18.4 MC. INPUT: 110 OR 220/1/50 TO 60, 210 WATTS. OUTPUT: 20 WATTS AT 3% DISTORTION AT 400 CYCLES. ENCLOSED IN A WALNUT CASE CONTAINING: RECEIVER; 12" DYNAMIC 1/3/45 MODEL 42Y  
 FEB. 45 STYLE CPAR-702

**CHG-46221 RDC**  
 RADIO RECEIVER  
 SUPPLY: 110/1/60. FREQ. RANGES 27.8 TO 47, 46 TO 82, 82 TO 145 MC. FM OR AM. OUTPUT IMPEDANCE 5000 AND 500 OHMS. INCLUDES RECEPTACLE FOR PANORAMIC ADAPTER. SAME AS -46130 EXCEPT MOTOR DRIVE IS ADDED TO CONTINUOUSLY ROTATE THE  
 9/25/43  
 NOV. 43

**CZC-45225**  
 FASTENED OVER DIAL ESCUTCHEON ON FRONT PANEL TO SHIELD AGAINST INTERFERENCE.

**CMX-46227-A**  
 SPEAKER WITH 5 OHM VOICE COIL; 12" DYNAMIC SPEAKER WITH 6 OHM VOICE COIL AND 5000 OHM PUSH PULL TRANSMITTER; AN AUTOMATIC RECORD CHANGES #52050832 WHICH ACCOMMODATES 12 TEN INCH AND 10 TWELVE-INCH RECORDS. SAME AS TYPE -46227 EXCEPT FOR STYLE OF RECORD CHANGER WHICH HAS BEEN CHANGED MECHANICALLY.

**CHG-46221**  
 VARIABLE TUNING CAPACITOR.

**CZC-46225-A RBO-3**  
 RADIO RECEIVER:  
 FREQ. RANGE: 0.53 TO 1.6; 5.55 TO 9.55, 9.2 TO 15.6 MC. SUPPLY 110 TO 125 VOLTS. SINGLE PHASE, 58 TO 62 CYCLES, 85 WATTS. SAME AS TYPE -46225 RADIO RECEIVER EXCEPT IN OUTPUT IT HAS SUBSTITUTED A BALANCED CONNECTION FOR UNBALANCED BY PUTTING TWO  
 1/30/45 LR12-3  
 FEB. 45

**CMX-46228 RCU-1**  
 RADIO-PHONOGRAPH COMBINATION  
 FREQ RANGE (3 BANDS): 535 TO 1720 KC, 1667 TO 5630 KC, AND 5600 TO 18000 KC. INPUT: 110 OR 220/1/50 TO 60, 210 WATTS. OUTPUT 20 WATTS AT 3% DISTORTION AT 400 CYCLES. ENCLOSED IN A WALNUT CASE CONTAINING: RECEIVER; 12" DYNAMIC SPEAKER 11/15/43 MODEL 42Y XE690390  
 AUG. 44 STYLE CPAR701

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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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
		CHL 46240	CFT-46245	DAK-3	RF-2573-14B	CHV-46249	UJ	
		RECEIVE, STANDBY SWITCHES, PHONE JACK, BUILT-IN DYNAMIC SPEAKER AND TELESCOPIC WHIP ANTENNA, SIMILAR TO NAVY TYPE -46199 EXCEPT DOES NOT INCLUDE BATTERY CHARGING FEATURES AND HAS SLIGHT ELECTRICAL AND MECHANICAL CHANGES.			RADIO RECEIVER ASSEMBLY FREQ. RANGE: 250 TO 1500 KC. INPUT IMPEDANCE 140 OHMS. OUTPUT IMPEDANCE IS 4 OHMS. MOUNTED IN ALUMINUM STEEL CABINET. INCLUDES INTEGRAL RECTIFIER FOR OPERATION FROM 115/1760 AND A 5" PH SPEAKER MOUNTED ON PANEL IN SAME CASE. SAME AS 3/2/44 DEC. 44			LORAN RECEIVER: SUPERHETERODYNE CIRCUIT, ONE STAGE PRE-SELECTION, PENTAPLID CONVERTER, 3 STAGES I.F., SECOND DETECTOR, VIDEO AMPLIFIER & CATHODE FOLLOWER OUTPUT, R.F. TUNING RANGE: 1700 KC/S TO 2000 KC/S NOMINAL. IF: 1600 KC/S BAND WITH: 60 KC/S AT 6 db 5/27/44 DEC. 44
		CHL 46241			CFT-46245			CHV 46249
		RADIO RECEIVER FREQ. RANGE: 27.8 TO 143 MC IN 3 BANDS (27.8 TO 47, 46 TO 82, 82 TO 143 MC) FM OR AM. OPERATES FROM 110/1760. OUTPUT IMPEDANCE 5000 AND 500 OHMS. SIMILAR TO NAVY TYPE -46130 EXCEPT HAS DIFFERENT TUBE LINEUP, DOES NOT INCLUDE PANORAMIC 1/13/44 S36 MODIFIED FEB. 44			-46183-A EXCEPT ALL CIRCUITS CONTROLLING -55092-A AUTOMATIC BEARING INDICATOR HAS BEEN REMOVED.			DOWN. USABLE SENSITIVITY AT FULL GAIN: 10 MICROVOLTS AT INPUT TERMINALS. HAS PROVISION FOR LOCAL ANTENNA WITH INDIVIDUAL GAIN CONTROL ADDITIONAL CONTROLS: TUNING, R.F. GAIN, VIDEO INPUT LIMITER. REQUIRES 6.3V AT 2.4 AMPS FOR HEATERS & PLUS 250V DC AT 40 MA.
		CHL 46241	CRV-46246	RDQ		CBM-46250	QBE-4, QBE-5	
		ADAPTER PLUG. HAS OIL FILLED CAPACITORS.			RADIO RECEIVER 3/9/44 AR-880 MAR. 44			RECEIVER-AMPLIFIER: FREQUENCY RANGE: 17 TO 25 KC. INPUT: 115/1760, 0.84 AMPS, 75 WATTS. TWO STAGE TUNED RF. TUNED DETECTOR, TWO STAGES AUDIO AND INTEGRAL THERMIONIC RECTIFIER. SAME AS -46169 EXCEPT (1) OUTPUT TRANSFORMER, AUDIO COILS AND ELECTROLYTIC CAP- 7/27/44 965 SK-5824 OCT. 44 ALT 0
		CCI 46242	CRV 46245-A	RDM				CBM-46250
		RADIO RECEIVER FIXED TUNED. FREQ RANGE: 200 TO 550 KC IN THREE BANDS, 200 TO 300 KC, 300 TO 400 KC AND 400 TO 550 KC USING THREE SETS OF PLUG-IN COILS (SLUG TUNED), THREE COILS TO A SET. HAS INTERNAL POWER SUPPLY FOR OPERATION FROM 105/115V, 1ϕ. 1/15/44 126-3R 126-3R-501 FEB. 44			RADIO RECEIVER 3/9/44 AR-88F MAR. 44			RESISTORS AND CAPACITOR ARE PANEL MOUNTED (3) VOLUME CONTROL ATTACHED (4) TUNE-VIBRATION-GAIN NETWORK INCLUDED IN FIRST AUDIO STAGE.
		CCI 46242	CPN 46247	RCO		CAY-46251	RCQ	
		60-. ANTENNA AND REMOTE CONTROL CONNECTIONS IN REAR. OUTPUT IMPEDANCE IS 500/600 OHMS. TYPES -47380 -47381, OR 47382 TRANSFORMER IS USED WITH RECEIVER TO OBTAIN DESIRED FREQUENCY. TYPE NUMBER DOES NOT INCLUDE TRANSFORMERS.			RADIO RECEIVER 4 TO 27 MC AURAL & VISUAL TOTALING TUNING RANGE IN THREE BANDS. (4 TO 8, 7.5 TO 15, 14.5 TO 27). I.F. FREQUENCY 1300 KC. HAS BFO FOR RECEPTION OF CW SIGNALS. USED CATHODE FOLLOWER TUBE FOR FEEDING IF 3/25/44 INFO NAVY TYPE CPN-55148 3/25/44 MAY 44			INPUT 205 VOLTS DC AT 0.07 AMPS AND 12 VOLTS DC/25 OR 60 CYCLES. AT 2.0 AMPS. FREQUENCY RANGE 200 TO 2000 KC IN 4 BANDS (200 TO 360 KC, 360 TO 650 KC, 650 TO 140 KC 1140 KC TO 2000 KC). OUTPUT IMPEDANCE 600 OHMS. SIMILAR TO 8/11/44 7414215, G-1 T-7613529 OCT. 44 SUB 3 SUB 0
		CFT 46243			DAU			CAY-46251
		RADIO RECEIVER FREQUENCY RANGE: 1.5 TO 30 MC. INPUT: 115/1760, 0.98 AMPS, 112 WATTS. SAME AS -46194 EXCEPT HAS PANORAMIC ADAPTOR OUTPUT RECEPTACLE WHICH IS CONNECTED TO THE IF BY A SHORT PIECE OF TRANSMISSION LINE. 2/4/44 FEB. 44			PANORAMIC ADAPTOR.			-46076A EXCEPT HOUSED IN FABRICATED CABINET; PROVIDES FOR CFI POWER FROM RECEPTACLE AT REAR. CONCENTRIC JACK FOR ANTENNA CONNECTION INSTEAD OF ANTENNA AND GROUND POSTS AND OTHER MINOR MODIFICATIONS. MOUNTED ON SHOCK-MOUNTED RAILS TO SLIDE IN AND OUT OF NAVY TYPE -10368 TRANSPORTATION CASE.
		CG-46244	CM-46248	QJB		CAY-46252	RCR	
		RADIO RECEIVER MAY BE USED AS A REPLACEMENT RECEIVER FOR NAVY TYPE CG-46210 RADIO-RECEIVER INDICATOR. 2/15/44 FEB. 44			RECEIVER UNIT: CONSISTS OF 2 SUPER-HETERODYNE RECEIVERS A COMMON INPUT NETWORK A KEYING RELAY AND A PHASE SENSITIVE DETECTOR. ONE OF THE RECEIVERS IS EQUIPPED WITH A BEAT FREQUENCY OSCILLATOR AND AN AUDIO FREQUENCY AMPLIFIER FOR OPERATING EXTERNAL 4/20/44 D-168465 ESX-658976 JULY 44 ISSUE 7			INPUT: 205 VOLTS DC AT 0.07 AMPS AND 12 VOLTS DC/25 OR 60 CYCLES AT 2.0 AMPS. FREQUENCY RANGE 2 TO 20 MC IN 4 BANDS (2.0 TO 3.6 MC, 3.6 TO 6.5 MC, 6.5 TO 11.4 MC, 11.4 TO 20 MC). OUTPUT IMPEDANCE 600 OHMS. SIMILAR TO -46077-A EXCEPT 8/11/44 7414215, G-1 T-7613529 OCT. 44 SUB 3 SUB 1
		CG-46244-A			DAS-2a			CAY-46252
		RADIO RECEIVER SAME AS CG-46244 EXCEPT HAS 4 LOW FREQUENCY CHANNELS INSTEAD OF 2 LOW AND 2 HIGH. 8/17/44 OCT. 44			VISIBLE AND AUDIBLE SIGNALS. PART OF TYPE -23430 CONTROL CONSOLE.			HOUSED IN FABRICATED CABINET. PROVIDES FOR CFI POWER FROM RECEPTACLE AT REAR; CONCENTRIC JACK FOR ANTENNA CONNECTION INSTEAD OF ANTENNA AND GROUND POSTS, AND OTHER MINOR MODIFICATIONS. MOUNTED ON SHOCK-MOUNTED RAILS TO SLIDE IN AND OUT OF NAVY TYPE -10368 TRANSPORTATION CASE.

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**CHL-46253** RDC-1 RE13A1024A  
 PANORAMIC SEARCH RECEIVER  
 FREQUENCY RANGE: 27.8 TO 140 MC IN 3 BANDS -27.8 TO 47 MC, 47 TO 82 MC; 82 TO 143 MC. POWER SUPPLY: 115V, 1ϕ 60~. 100 WATTS APPROX. ACCEPTS EITHER MODULATED OR UNMODULATED SIGNALS BY PANORAMIC FREQUENCY SCANNING TECHNIQUE. BAND 8/22/44 1X405 CHL:92D208-0 DEC. 44

**CHL-46253**  
 MECHANICALLY SWEEP BY CONTINUOUSLY ROTATING MOTOR DRIVEN VARIABLE CONDENSER. HOUSED IN SHOCK MOUNTED METAL CABINET 19 1/8" W X 9 7/16" H X 16 3/4" DEEP.

**CFT-46254** DBF RE13A1056A  
 RADIO RECEIVER  
 BALANCE INPUT SUPERHETERODYNE RECEIVER MOUNTED ON A ONE HALF ATR CHASSIS. FREQUENCY RANGE; 100 TO 160 MC. POWER SUPPLY 110, 115 OR 120V, 400 CYCLES, 1ϕ. MAXIMUM POWER CONSUMPTION 400 WATTS ON 115V 60~ POWER SOURCE. POWER INPUT. ANTENNA 8/24/44 CFT:RF-3566 FEB. 45 ISS A

**CFT-46254**  
 INPUT, POWER OUTPUT AND REMOTE CONTROL CONNECTIONS ON FRONT PANEL.

**CBM-46255** QGC, QCD RE13A1056A  
 QC-RECEIVER  
 FREQ. RANGE: 13 TO 37 KC. INPUT: 6.3V AC OR DC/ 250V DC/280V DC, 3.3/0.0036/0.03 AMPS. SIMILAR TO -46232 EXCEPT HAS SEPARATE AUDIO CHANNEL FOR THE RECORDER. 8/31/44 755H 60382 OCT. 44 REV 0

**CHL-46256** RCF-2 RE9556A RE9404A  
 RADIO RECEIVER  
 FREQUENCY RANGE 0.55 TO 43 MC IN 6 BANDS. OPERATES FROM 115/230V, SINGLE PHASE, 25/60 CYCLES. SIMILAR TO TYPE -46202 EXCEPT (1) IS MODIFIED BY ADDITION OF RADIATION SUPPRESSOR; (2) REMOTE STANDBY SOCKET DELETED FROM REAR CHASSIS APRON; 10/3/44 SX-28-A DEC. 44

**CHL-46256**  
 (3) R-F AMPLIFIER SECTION MECHANICALLY REDESIGNED; (4) REMOTE STANDBY SWITCH NOW CONNECTED THROUGH SHORTING PLUG (A-C OPERATION) OR DC OPERATION PLUG LOCATED IN REAR APRON. INCLUDES TYPE -49172 LOUDSPEAKER.

**CBM-46257** WCA-3 RE13A1056A  
 RECEIVER - AMPLIFIER  
 FREQUENCY RANGE: 14 TO 32 KC. SAME AS TYPE -46165-A EXCEPT IT INCLUDES AN ADJUSTABLE TUNING CONDENSER FOR THE BEAT OSCILLATOR TO CORRECT DRIFT IN THE BEAT OSCILLATOR. 10/7/44 755U 60446 DEC. 44 ALT 0

**CARM-46258** ROV  
 RADIO RECEIVER (CHANNEL A)  
 INPUT 110/115/120V 1ϕ 50/60~. FREQ. RANGE 2.0 TO 4.5 MC. SELF CONTAINED POWER SUPPLY. 2 WATT OUTPUT INTO 30-500 OHM LINE. HAS OUTPUT CONNECTIONS FROM THE 1600 KC IF CHANNEL TO OPERATE A -55163 PANORAMIC ADAPTER. DESIGNED FOR 10/28/44 DEC. 44

**CARM-46258**  
 RACK OR TABLE MTG. SAME AS -46259 EXCEPT FOR FREQUENCY RANGE.

**CARM-46259** RDW  
 RADIO RECEIVER (CHANNEL B)  
 INPUT 110/115/120V 1ϕ 50/60~. FREQ. RANGE 4.5 TO 9.0 MC. SELF CONTAINED POWER SUPPLY. 2 WATT OUTPUT INTO 30-500 OHM LINE. HAS OUTPUT CONNECTIONS FROM THE 1600 KC IF CHANNEL TO OPERATE A -55163 PANORAMIC ADAPTER. DESIGNED FOR 10/28/44 DEC. 44

**CARM-46259**  
 RACK OR TABLE MTG. SAME AS -46258 EXCEPT FOR FREQUENCY RANGE.

**CBM-46260** MFA  
 RECEIVER AMPLIFIER  
 TWO OPERATING CHANNELS 20 KC AND 60 KC. 20 KC CHANNEL FIXED TUNE WITH ADJUSTMENT BY INTERNALLY MOUNTED TUNING CAPACITORS. BEAT FREQUENCY OUTPUT OF 60 KC STAGE IS COUPLED INTO INPUT OF 20 KC CHANNEL. POWER OUTPUT APPROX 6 WATTS. INPUT: 100 MA 11/1/44 1008 DEC. 44

**CBM-46260**  
 AT 300 VOLTS DC, 3 AMPS AT 6.3 VOLTS 60 CYCLES AC.

**CBM-46261** MFA  
 RECEIVER - AMPLIFIER  
 INDICATOR ASSEMBLY:  
 CONSISTS OF A TYPE -20059-D RECTIFIER POWER UNIT, -46260 RECEIVER AMPLIFIER AND A TYPE -55165 INDICATOR RECORDER ENCLOSED IN A CABINET. INPUT 115/160. 11/1/44 843D 60416 DEC. 44 ALT 0

**CBM-46262** MFA  
 RECEIVER AMPLIFIER  
 TUNING RANGE 18 TO 47 KC. CONSISTS OF ONE STAGE OF RF AMPLIFICATION, A FIRST DETECTOR, AND A FIRST BFO FOLLOWED BY A 3 STAGE IF (60 KC) AMPLIFIER. AMPLIFIER IS FOLLOWED BY A SECOND DETECTOR AND A SECOND BFO SUPPLYING THE AUDIO AMPLIFIER. 11/3/44 755S 60393 ALT 0 DEC. 44

**CBM-46262**  
 THE SECOND BFO PROVIDES A SOURCE OF AF WHEN UNMODULATED SIGNALS ARE RECEIVED AND IS VARIABLE FROM 0 TO 1600 CPS. THE AF COMPONENT OF THE SIGNAL FROM THE SECOND DETECTOR IS AMPLIFIED BY THE FIRST STAGE OF THE AUDIO AMPLIFIER. OUTPUT OF FIRST STAGE IS FED INTO TWO AUDIO POWER AMPLIFIERS, ONE SUPPLIES SPEAKER & OTHER SUPPLIES EXCITATION FOR RECORDER.

**CNA-46263** RAD-9  
 RADIO RECEIVER  
 FREQ. RANGE 0.54 TO 30 MC. INCLUDES INTERNAL RECTIFIER POWER SUPPLY FOR OPERATION FROM 115/160. OUTPUT IMPEDANCE 600 OHMS. INCLUDES PRESELECTOR CIRCUIT. UNIT IS SHOCK-MOUNTED. HAS DRAW-OUT FRONT PANEL, HAS TWO PIECE CHASSIS. HAS 10/4/44 BM:135 F-950 DEC. 44

**CNA-46263**  
 PANORAMIC ADAPTOR JACK. INPUT CURRENT: .55; INPUT WATTAGE 60. SAME AS TYPE -46233 EXCEPT BY ADDING A RESISTOR AND CAPACITOR IN THE GRID CIRCUITS OF THE 2 R.F. STAGES IT ELIMINATES INTERFERENCE FROM PULSE TRANSMISSION.

**CIA-46264** DBA  
 RADIO RECEIVER  
 FREQ. RANGE 1.5 TO 30 MC. HIGH GAIN SUPERHETERODYNE TO RECEIVE CW, MODULATED OR UNMODULATED RADIO SIGNALS. FIVE BANDS USED TO COVER FREQUENCY RANGE.

11/9/44  
 DEC. 44

**CS-46265** DBE RE13A944  
 LORAN RECEIVER - INDICATOR  
 SUPPLY: 105-125 OR 210-250 VOLTS, 1ϕ, 50 OR 60 CPS. FREQ. RANGE: 1700 TO 2000 KC. INDICATES TIME DIFFERENCES IN LORAN SIGNALS OR A BUILT-IN UNDER-ROOT CONVERTER FROM 0 TO 20,000 MICROSECONDS. INCLUDES RECTIFIER POWER UNIT 11/22/44, 651006 CS:651006 MAY 45

**CS-46265**  
 TIMER-MEASUREMENT UNIT,  
 TIMER-DIVIDER UNIT,  
 RADIO RECEIVER AND SWEEP & AMPLIFIER UNIT.

**CS-46266** DBE RE13A944  
 RADIO RECEIVER  
 FREQ. RANGE: 1700 TO 2000 KC. CONTAINS 4 CRYSTAL CONTROLLED CHANNELS SUITABLE FOR RECEPTION OF LORAN SIGNALS. PART OF TYPE -46265 LORAN RECEIVER-INDICATOR. CANCELLED 11/22/44 651012 MAY 45

**CHL-46267** RDH RE 13A 855B  
 PANORAMIC SEARCH RECEIVER ADDENDUM I  
 WIDE-BAND, HIGH FREQUENCY PANORAMIC SEARCH RECEIVER. INPUT: 115/155-65, 150 WATTS APPROXIMATELY. FREQ. RANGE: 125-600 MC IN 2 BANDS (125-325 MC AND 325-600 MC) ACCEPTS EITHER MODULATED OR UNMODULATED SIGNALS IN SELECTED BAND. 12/11/44 .MAY 45

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Class 46—Receiving Units and Converters

3.46-19

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
EITHER ME- CHANICALLY SWEEPED BY CONTINUOUSLY ROTATING DRIVEN VARIABLE CONDENSER OR MANUALLY TUNED. HOUSED IN SHOCK MOUNTED METAL CABINET.		CHL-46267	PLUGS IN REAR FOR POWER, GONIOMETER POWER AND GONIOMETER R.F. SHOCK MOUNTED ON ONE 1 1/2 ATR RACK.		CRR-46272	CW-46278 QDA RECEIVER UNIT A TWIN CHANNEL SUPERHETERODYNE TYPE DESIGNED TO DELIVER AUDIO OUTPUT FOR LOUDSPEAKER AND DC VOLTAGES FOR CHEMICAL RECORDER OPERATION AND FOR DEFLECTION OF DEPTH DEVIATION INDICATOR OSCILLOSCOPE. REVERBERATION CONTROLLED GAIN IS PROVIDED. 4/28/45 D-171066 BR-158068 MAY 45 ISSUE 1		
CFE-46268 DAS-4 RADIO RECEIVER: INPUT 115/1/60. 0.46 AMP., 50 WATTS. 9 TUBE, WIDE BAND SUPERHETERODYNE RECEIVER WHICH RECEIVES 2 RADIO SIGNALS SIMULTANEOUSLY AND OPERATES ON 4 PREDETERMINED FIXED LOW FREQUENCIES. SERVES SAME FUNCTION AS TYPE CFE-46216-A BUT IS 1/19/45 300.511 FEB. 45			CNA-46273 R0Z PRESELECTOR & CONVERTER UNIT FREQUENCY RANGE: 225-400 MC RATED; 200-400 MC TOTAL. CONTAINS ALL TUBES OF R.F. & MIXER STAGES & ALSO THE CRYSTAL OSCILLATOR AND MULTIPLIER STAGES REQUIRED TO PRODUCE HETERODYNING VOLTAGE. REQUIRED VOLTAGES OBTAINED FROM TYPE -20407 1/19/45 BM 142 J 127 APR. 45			CW-46278 QDA RECEIVER UNIT A TWIN CHANNEL SUPERHETERODYNE TYPE DESIGNED TO DELIVER AUDIO OUTPUT FOR LOUDSPEAKER AND DC VOLTAGES FOR CHEMICAL RECORDER OPERATION AND FOR DEFLECTION OF DEPTH DEVIATION INDICATOR OSCILLOSCOPE. REVERBERATION CONTROLLED GAIN IS PROVIDED. 4/28/45 D-171066 BR-158068 MAY 45 ISSUE 1		
NEITHER ELECTRICALLY NON-MECHANICALLY INTERCHANGEABLE WITH IT.		CFE-46269	RECTIFIER POWER UNIT.		CNA-46272	CZC-46279 R80-4 RADIO RECEIVER FREQ. RANGE: 0.53 TO 1.6; 5.55 TO 9.55; 9.2 TO 15.6 MC. INPUT: 110 TO 125/1/55 TO 65. SIMILAR IN FUNCTION TO TYPE CZC-46225-A BUT NOT INTERCHANGEABLE. AUDIO OUTPUT TRANSFORMER PROVIDES 2 BALANCED OUTPUTS: (1) A 60 OHM CENTER TAPPED SEC- 5/22/45 LR-12-4 JUN. 45		
CRV-46269 MAR R.F. ASSEMBLY: R.F. SECTION OF RECEIVER PORTION OF NAVY TYPE CRV-43067 RADIO TRANSMITTER-RECEIVER INCLUDES RF TUNING CAPACITOR, ANTENNA TUNER. OUTPUTS GO TO THE IF AND MULTIPLIER SECTIONS OF THE RECEIVER. 2/20/45 CRV:T-618525-501 FEB. 45 REV. 3			CNA-46274 R0Z IF/AF UNIT INTERMEDIATE FREQUENCY: 15.1 MC. UNIT CONTAINS ALL TUBES OF INTERMEDIATE FREQUENCY & AUDIO FREQUENCY STAGES & ALSO PANORAMIC & VIDEO OUTPUT COUPLING TUBES. REQUIRED VOLTAGES OBTAINED FROM TYPE -20407 RECTIFIER POWER UNIT. 3/30/45 BM:130 J 126 APR. 45			CZC-46279 R80-4 RADIO RECEIVER FREQ. RANGE: 0.53 TO 1.6; 5.55 TO 9.55; 9.2 TO 15.6 MC. INPUT: 110 TO 125/1/55 TO 65. SIMILAR IN FUNCTION TO TYPE CZC-46225-A BUT NOT INTERCHANGEABLE. AUDIO OUTPUT TRANSFORMER PROVIDES 2 BALANCED OUTPUTS: (1) A 60 OHM CENTER TAPPED SEC- 5/22/45 LR-12-4 JUN. 45		
CZC-46270 REE RADIO RECEIVER INPUT: 115V DC OR 115/1/60. 78 WATTS. FREQUENCY RANGE: 0.54 TO 18.6 MC WITHOUT HEATERS IN 4 BANDS: 0.54-11.4 MC, 1.35-3.58 MC, 3.4-8.8 MC, 8.5-18.6 MC. INTERMEDIATE FREQUENCY 455 KC. OUTPUT: 60 OHM BALANCED OUTPUT FOR CONNECTION OF FROM 3/1/45 AC-DC 12 APR. 45			CNA-46275 RDE RADIO RECEIVER ASSEMBLY CONSISTS OF ONE EACH OF THE FOLLOWING NAVY TYPES: -10511 CABINET, -10512 FRONT PANEL ASSEMBLY, -10513 FILTER COVER, -20407 RECT. POWER UNIT, -23491 AUTOMATIC TUNING UNIT, -40148 CRYSTAL OVEN, -46273 PRESELECTOR & CONVERTER UNIT. 4/3/45 APR. 45			CANY-46280 D60 RE 13A 1075A RADIO RECEIVER FREQ. RANGE 200 TO 1750 KC. ALL FRONT PANEL CONTROLS & CONNECTORS ARE REMOVED; RECEIVER CONTROLLED BY NAVY TYPE -23505 FOR FOLLOWING OPERATING FUNCTIONS (1) MATCHED LINE METHOD WITH MANUAL CONTROL GONIOMETER & CATHODE RAY INDICATION OF 5/7/45 JUN. 45		
ONE TO TEN 600 OHMS RESISTOR MOTE SPEAKER AMPLIFIER UNITS. UNDISTORTED POWER OUTPUT 2 WATTS ACROSS LOAD OF 60 OHMS. PROVIDES ALSO FOR 600 OHM OUTPUT WITH TAPS AT 300 & 200 OHMS FOR CONNECTION OF ONE, TWO OR 3 LOUDSPEAKERS. UNDISTORTED POWER OUTPUT IS 2 WATTS ACROSS 600 OHMS - OUTPUTS NOT TO BE USED SIMULTANEOUSLY. 100 MW AVAILABLE AT PHONE JACK 41.2 WATTS AT MONITOR SPEAKER.		CZC-46270	CHA-46275 -46274 IF/AF UNIT, -53280 R.F. FILTER UNIT. ALSO INCLUDES ACCESSORIES TO THE ASSEMBLY OF THESE UNITS.			CANY-46280 D60 RE 13A 1075A RADIO RECEIVER FREQ. RANGE 200 TO 1750 KC. ALL FRONT PANEL CONTROLS & CONNECTORS ARE REMOVED; RECEIVER CONTROLLED BY NAVY TYPE -23505 FOR FOLLOWING OPERATING FUNCTIONS (1) MATCHED LINE METHOD WITH MANUAL CONTROL GONIOMETER & CATHODE RAY INDICATION OF 5/7/45 JUN. 45		
CCL-46271 REH 16R30(RE) RADIO RECEIVER SUPPLY: 110 OR 220/1/50 TO 60~. FREQUENCY RANGE: 540 TO 1600 KC AND THE FOLLOWING SHORT WAVE BANDS: 5.96 TO 6.19 MC, 9.1 TO 10.0 MC, 11.46 TO 12.16 MC, AND 14.95 TO 15.46 MC. AMBIENT TEMPERATURE 20° TO 30°C. 3/1/45 APR. 45			CRM-46276 X-02S RE13A1074A RADIO RECEIVER-INDICATOR ADDENDUM 1 INPUT: 115/1/60. 200VA. 0.95 P.H. FREQUENCY RANGE: 1.7-2 MC. UNIT IS A R-65/APN-9. MODIFIED FOR 60 CYCLE OPERATION & HAS DIFFERENT ANTENNA INPUT CONNECTOR; SHIPBOARD HOUSING & SHOCK MOUNTING. 4/8/45 CRM:TS-638 APR. 45 SUB 0			CHL-46281 RBX-1 RADIO RECEIVER FREQUENCY RANGE: 130 TO 210 MC FREQUENCY MODULATION OR AMPLITUDE MODULATION. SUPPLY: 115 TO 230V. 1 PHASE. 50 TO 60 CPS. SAME AS TYPE CHL-46193 EXCEPT IF AMPLIFIER TRANSFORMERS CHANGED FROM VARIABLE AIR DIELECTRIC CAPACITOR TUNING TO FIXED 5/18/45 S-57 920062 JUN. 45 ISSUE A		
CRR-46272 DBF-1 16DB(RE) RADIO RECEIVER-INDICATOR INPUT: 110 VOLTS. 60 CYCLES. FREQUENCY RANGE 100-156 MC IN ONE BAND. CONTAINS ALL RECEIVER AND INDICATOR CIRCUITS. PRESENTS D/F INDICATION ON SCREEN OF 5" CATHODE RAY SCOPE WHICH IS INTEGRAL PART OF UNIT. HAS BUILT IN POWER SUPPLY. HAS 3/24/45 APR. 45			CFL-46277 REN RE 9614A RADIO RECEIVER FREQUENCY RANGE: 70 TO 90 MC. FOR FM SIGNALS OF 75 KC MAXIMUM SWING. BATTERY OPERATED. OUTPUT CIRCUIT MATCHES NAVY TYPE -49016 TELEPHONE UNIT (HEAD). 4/21/45 MAY 45			CHL-46281 RBX-1 RADIO RECEIVER FREQUENCY RANGE: 130 TO 210 MC FREQUENCY MODULATION OR AMPLITUDE MODULATION. SUPPLY: 115 TO 230V. 1 PHASE. 50 TO 60 CPS. SAME AS TYPE CHL-46193 EXCEPT IF AMPLIFIER TRANSFORMERS CHANGED FROM VARIABLE AIR DIELECTRIC CAPACITOR TUNING TO FIXED 5/18/45 S-57 920062 JUN. 45 ISSUE A		

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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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CW- 46282 OLA  
 RECEIVER UNIT  
 FREQ. RANGE: 36 TO 48 KC. CONTAINS NE-  
 CESSARY CIRCUITS FOR RECEIVING THE RE-  
 TURN ECHO FROM THE TYPE -73256 TRANSOJC-  
 ER THROUGH A BAND PASS FILTER MIXING  
 THAT ECHO WITH A HETERODYNE INJECTION  
 VOLTAGE FROM THE TYPE -35108 FM OSCILLA-  
 5/24/45 CW:ASXX-35003  
 JUN. 45 ISSUE 3

CW- 46282  
 TOR UNIT. RECEIVER OUTPUT IS FREQUENCY  
 SPECTRUM DELIVERED TO ANALYZERS AND TO  
 LOUDSPEAKER.

CRV- 46283 RDR  
 RADIO RECEIVER  
 SUPPLY: 12V DC OR CAN OPERATE FROM TYPE  
 -20379 VIBRATOR POWER SUPPLY WITHOUT  
 USING BUILT-IN DYNAMOTOR POWER SUPPLY.  
 FREQ. RANGE: 225 TO 590 MC. TEN CHANNEL.  
 CRYSTAL CONTROLLED. SIMILAR TO -43067  
 TRANSMITTER-RECEIVER EXCEPT TRANSMITTER  
 5/29/45 M-441682  
 JUN. 45 REV. 0

CRV- 46283  
 HAS BEEN REPLACED BY DYNAMOTOR.

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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