

M A T E R I A L L I S T

MODEL RS-D-3 (A, B, C, D, E)

REMOTE SYSTEM DISCRIMINATOR

- I. ELECTRICAL COMPONENTS AND MECHANICAL PARTS (1-4)
- II. HARDWARE (5-6)
- III. SUPPORTING DRAWINGS (7)
- IV. RAW MATERIALS (8)
- V. TUBES (9)
- VI. SPECIFICATIONS (9)
- VII. PARTS PEGULIAR (10-12)

CHECKED: 16

APPROVED PLK. JDR

TYPED: 10-30-58

REMOTE SYSTEM DISCRIMINATOR

PURCHASED ITEM	MATERIAL LIST		MODEL RSD-3		PROJ. NO.				LIST NO. ML-RSD-3	
			ISSUE	A	B					SHEET
	QUAN. PER ONE EQUIP.	PART NO.	REV.	DWG SIZE	ITEM NO.	DESCRIPTION	REMARKS			
					<u>I</u>					
					<u>ELECTRICAL COMPONENTS AND MECHANICAL PARTS</u>					
1	BI-101-44		1		Lamp, Incandescent	11				
18	CM35B103K		2		Capacitor, Fixed, Mica	C1,4,5,6,7,8,9,11,14, 15,16,17,19,22,23,24, 25,26				
1	CN-100-4		1		Capacitor, Fixed, Paper	C31				
9	CP69B4EF504L		1		Capacitor, Fixed, Metal Case	C2a,b; 3a,b; 12a,b; 13a,b; 20a,b; 21a,b; 28a,b; 29a,b; 30a,b;				
4	CU-139-2B FD-*** FX-***				Ferrule, Handle See Parts Peculiar Pages 10, 11, 12 See Parts Peculiar Pages 10, 11, 12	(4) A-856				
2	HA-102-5BN		22		Handles					
3	JJ-114-2		1		Receptacle, Tip Jack	J2,3,4				
1	JJ-127-1		1		Jack, Eight Contact, Male	J1				
1	MP-100-1		2		Knob					
1	MP-100-4		2		Knob, Indicator					
1	MR-102		2		Meter, Panel	-5 to +5	M1			

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PURCHASED ITEM	MATERIAL LIST		MODEL RSD-3		PROJ. NO.				LIST NO. ML-RSD-3	
	QUAN. PER ONE EQUIP.	PART NO.	DWG	ITEM					SHEET	OF
			SIZE	NO.	ISSUE	A B				2
					DESCRIPTION				REMARKS	
					I					
2	MS-154-1	1			Straddle Plate					
1	MS-377-1	8			Front Panel					
1	MS-377-2	8			Front Panel					For Comm. & U.S. Navy
1	MS-386				Chassis (N.D. See A-515)					For RCAF only
1	MS-387-1				Left Side Plate (N.D. See A-514)					
1	MS-387-2				Right Side Plate (N.D. See A-514)					
1	MS-394				Top Cover (N.D. See A-513)					
1	MS-397				Bottom Cover (N.D. See A-513)					
9	MS-398	1			Mounting, Terminal Board (N.D. See A-513)					
2	MS-399				Bracket, Relay (N.D. See A-835)					(2)RL-110
1	MS-568				Bracket, Cover (N.D. See A-835)					
1	NP-*** (See S-278)				Nameplate					
1	PL-116-2	1			Connector Plug, Female					
2	PO-106-6NT				Plug in Socket					(2) TS-126
1	PX-172	ND			Terminal Board HFO (N.D. See A-493)					TB-2
1	PX-173	ND			Terminal Board BFO (N.D. See A-494)					TB-1
1	PX-174	ND			Terminal Board RF Gain (N.D. See A-495)					TB-3
1	PX-337-9				Insulation Strip					For TM-100-9
6	RC20GF102K	2			Resistor, Fixed, Composition 1000 Ω , $\frac{1}{2}$ W.					R4,18,32,46,56,70
6	RC20GF103K	2			Resistor, Fixed, Composition 10 K Ω , $\frac{1}{2}$ W.					R8,36,60,13,41,65
10	RC20GF105K	2			Resistor, Fixed, Composition 1 meg, $\frac{1}{2}$ W.					R7,19,27,35,51,59
2	RC20GF106K	2			Resistor, Fixed, Composition 10 meg, $\frac{1}{2}$ W.					71,77,86,87
3	RC20GF104K	2			Resistor, Fixed, Composition 100 K Ω , $\frac{1}{2}$ W.					R21,73
9	RC20GF223K	2			Resistor, Fixed, Composition 22 K Ω , $\frac{1}{2}$ W.					R17,45,69
3	RC20GF224K	2			Resistor, Fixed, Composition 220 K Ω , $\frac{1}{2}$ W.					R6,10,15,34,38,43,58,
5	RC20GF225K	2			Resistor, Fixed, Composition 2.2 meg, $\frac{1}{2}$ W.					62,67
					Resistor, Fixed, Composition 15 K Ω , $\frac{1}{2}$ W.					R9,37,61
										R24,25,48,49,76

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PURCHASED ITEM	MATERIAL LIST		MODEL	PROJ. NO.								LIST NO.		
	QUAN. PER ONE EQUIP.	PART NO.	ISSUE	RSD-3								ML-RSD-3		
			DWG SIZE	ITEM NO.	DESCRIPTION								SHEETS	
											3 OF 12 SHEETS			
					I									
3	RC20GF154K	2	Resistor, Fixed, Composition	150 K Ω,	$\frac{1}{2}$ W.	R14, 42, 66								
4	RC20GF331K	2	Resistor, Fixed, Composition	330 Ω,	$\frac{1}{2}$ W.	R1, 29, 30, 53								
1	RC20GF473K	2	Resistor, Fixed, Composition	47 K Ω,	$\frac{1}{2}$ W.	R85								
2	RC20GF472K	2	Resistor, Fixed, Composition	4.7 K Ω,	$\frac{1}{2}$ W.	R81, 83								
14	RC20GF474K	2	Resistor, Fixed, Composition	470 K Ω,	$\frac{1}{2}$ W.	R5, 11, 12, 16, 20, 33, 39, 40, 44, 57, 63, 64, 68, 72								
3	RC20GF681K	2	Resistor, Fixed, Composition	680 Ω,	$\frac{1}{2}$ W.	R3, 31, 55								
1	RC32GF153K	2	Resistor, Fixed, Composition	15 K Ω,	$\frac{1}{2}$ W.	R79								
3	RC32GF392K	2	Resistor, Fixed, Composition	3.9 K Ω,	$\frac{1}{2}$ W.	R23, 47, 75								
1	RC32GF393K	2	Resistor, Fixed, Composition	39 K Ω,	$\frac{1}{2}$ W.	R89								
2	RL-105		Relay, Plug-in, Octal (See ML-A-543)				(2)RL-110							
3	RV4ATXA503A	2	Resistor, Variable, Composition	50 K Ω,	2 W.	R26, 50, 78								
1	RV4ATXA102B	2	Resistor, Variable, Composition	1 K Ω,	2 W.	R84								
1	RV4ATXA105B	2	Resistor, Variable, Composition	1 meg.	2 W.	R52								
1	RV4ATRD251B	2	Resistor, Variable, Composition	250 Ω,	2 W.	R82								
2	RV4ATXA504B	2	Resistor, Variable, Composition	500 K Ω,	2 W.	R28, 80								
1	RW-109-31	1	Resistor, Fixed, W.W.	4 K,	10 W	R88								
1	SW-120	1	Switch, Rotary, Four Position				S1							
3	TF-129	1	Transformer, Audio				T1, 2, 3							
1	TM-100-9	1	Terminal Strip, Nine Contacts				E1							
1	TM-105-9-A-L	1	Fanning Strip											

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PURCHASED ITEM	MATERIAL LIST		MODEL	PROJ. NO.										LIST NO.
	QUAN. PER ONE EQUIP.	PART NO.	ISSUE	DWG SIZE	ITEM NO.	DESCRIPTION	REMARKS							
	2	TS-100-3		1		Socket Octal	XV18,19							
	7	TS-102-P01		1		Socket, Tube: Seven Pin Miniature	XV4,5,10,14,15,16,17							
	10	TS-103-P01		1		Socket, Tube: Nine Pin Miniature	XV1,2,3,6,7,8,9,11,12,13							
	3	TS-102-U01		1		Shield, Tube								
	2	TS-102-U02		1		Shield, Tube								
	2	TS-102-U03		1		Shield, Tube								
	10	TS-103-U02		1		Shield, Tube								
	1	TS-106-1		2		Light, Indicator, Red Lens	XII							
	2	TS-126		1		Plug In Socket	(2)RL-110							
	2	WA-102-1		1		Washer, Fibre Shoulder								

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PURCHASED ITEM	MATERIAL LIST		MODEL	PROJ. NO.										LIST NO.	SHEETS					
	QUAN. PER ONE EQUIP.	PART NO.	DWG SIZE	ITEM NO.	DESCRIPTION	REMARKS	ISSUE											SHEET	OF	SHEETS
							A	B												
					II <u>HARDWARE</u>															
	1	EY-102-2	1		Grommet, Elastic															
	12	FS-102-1	1		Spring, Type "S"	(8)MS387	(1)A-835													
	12	FS-109-3	1		Ring, Stud Retaining	(8)MS397	(4)MS394													
	12	FS-110-1	1		Stud, Slotted Head	(8)MS397	(4)MS394													
	2	FW06HBN	1		Washer, Flat															
	1	LWE04MRN	1		Lockwasher, External															
	90	LWE06MRN	1		Lockwasher, External	(2)A-493,	(3)A-544,	(3)A-548												
	30	LWE08MRN	1		Lockwasher, External															
	2	LWE10MRN	1		Lockwasher, External															
	3	LWI25LRN	1		Lockwasher, Internal															
	9	LWI37LRN	1		Lockwasher, Internal															
	24	LWS03MRN	1		Lockwasher, Split	(6)MS386,	(16)MS387,	(2)A-835												
	34	LWS04MRN	1		Lockwasher, Split															
	8	LWS06MRN			Lockwasher, Split	(8)RL-110														
	7	NT-101-4	1		Nut, Strap															
	10	NT-101-5	1		Nut, Strap															
	24	NTH0348BN6	1		Nut, Hexagon	(6)MS386,	(16)MS387,	(2)A-835												
	94	NTH0632BN8	1		Nut, Hexagon	(4)RL-110														
	30	NTH0832BN10	1		Nut, Hexagon															
	2	NTH1032BN11	1		Nut, Hexagon															

REMOTE SYSTEM DISCRIMINATOR

PURCHASED ITEM	MATERIAL LIST		MODEL RSD-3		PROJ. NO.				LIST NO. ML-RSD-3	
	QUAN. PER ONE EQUIP.	PART NO.	DWG	ITEM					SHEET 7 OF 12 SHEETS	
			SIZE	NO.	DESCRIPTION				REMARKS	
					<u>III</u> <u>SUPPORTING DRAWINGS</u>					
	1	A-493	2		Terminal Board	HFO			TB-2	
	1	A-494	2		Terminal Board	BFO			TB-1	
	1	A-495	2		Terminal Board	RF Gain			TB-3	
		A-511	2		Side Plate					
		A-515	2		Main Chassis					
		A-533	2		Top Cover Assembly					
		A-538	2		Bottom Cover Assembly					
	1	A-544	4		BFO Terminal Board Assembly				TB-1	
	1	A-545	4		HFO Terminal Board Assembly				TB-2	
	1	A-548	4		RF Gain Terminal Board Assembly				TB-3	
	1	A-835	1		Bracket Assembly, Cover					
	1	A-856	ND		Final Assembly					
	1	CA-191	8		Cable Assembly					
	1	CK-289	4		Block Diagram					
	1	CK-375	8		Schematic Diagram					
	1	ID-153	2		Silk Screening	RF Gain			TB-3	
	1	ID-154	2		Silk Screening	HFO			TB-2	
	1	ID-155	2		Silk Screening	BFO			TB-1	
	1	ID-157	8		Front Panel Engraving					
	1	ID-455	8		Chassis Lettering, Two Sheets					
	1	RL-110 (A-543)	4		Relay, Plug In, Octal				K1,2	

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MATERIAL LIST		REV.	A	B														MODEL RSD-3
SHEET 8 OF 12																		
QUAN. PER UNIT	PART NO.	DESCRIPTION	REF.	ITEM LOCATION			REF. SYMBOLS AND/OR REMARKS											
				USED ON	USED TO MOUNT	QUAN.												
IV RAW MATERIALS																		
X	BS-100	Solder, Soft																
X	CD-101-1MW	Cord, Black																
22-3	MWC22(7)S3	Cable, Insulated, W/Shield	Orange															
35-3	MWC22(7)S4	Cable, Insulated, W/Shield	Yellow															
53-0	MWC22(7)S5	Cable, Insulated, W/Shield	Green															
40-6	MWC22(7)S6	Cable, Insulated, W/Shield	Blue															
39-3	MWC22(7)S92	Cable, Insulated, W/Shield	Wh/Red															
17-9	MWC22(7)S95	Cable, Insulated, W/Shield	Wh/Green															
3-3	MWC22(7)U0	Wire, Electrical	Black															
5-3	MWC22(7)U1	Wire, Electrical	Brown															
12-9	MWC22(7)U2	Wire, Electrical	Red															
6-9	MWC22(7)U3	Wire, Electrical	Orange															
14-10	MWC22(7)U4	Wire, Electrical	Yellow															
8-5	MWC22(7)U5	Wire, Electrical	Green															
16-10	MWC22(7)U6	Wire, Electrical	Blue															
5-7	MWC22(7)U7	Wire, Electrical	Violet															
2-9	MWC22(7)U8	Wire, Electrical	Grey															
11-4	MWC22(7)UPINK	Wire, Electrical	Pink															
6-11	MWC22(7)U93	Wire, Electrical	Wh/Orange															
5-6	MWC22(7)U95	Wire, Electrical	Wh/Green															
7-7	MWC22(7)U96	Wire, Electrical	Wh/Blue															
4-1	MWC22(7)U99	Wire, Electrical	White															
6-10	PX-100-1-.022	Insulation Sleeving	24 GA.															
0-9	PX-100-1-.208	Insulation Sleeving	4 GA.															
0-2	PX-104-1-.034	Insulation Sleeving																
0-2	PX-104-2-.034	Insulation Sleeving																
0-2	PX-104-3-.034	Insulation Sleeving																
0-2	PX-104-4-.034	Insulation Sleeving																
0-2	PX-104-6-.034	Insulation Sleeving																
0-2	PX-104-7-.034	Insulation Sleeving																
0-2	PX-104-8-.034	Insulation Sleeving																
0-2	PX-104-9-.034	Insulation Sleeving																
X	WL-100-7	Wire, Buss Bar																
15-8	WL-100-8	Wire, Buss Bar	24 GA.															
14-8	WL-103-1	Shield, Flex																

REMOTE SYSTEM DISCRIMINATOR

PURCHASED ITEM	MATERIAL LIST		MODEL RSD-3		PROJ. NO.				LIST NO. MI-RSD-3	
	QUAN. PER ONE EQUIP.	PART NO.	DWG SIZE	ITEM NO.	DESCRIPTION				REMARKS	
					<u>V</u> TUBES					
2	OB2				Tube, Electron				V16,17	
3	6AL5				Tube, Electron				V5,10,15	
2	6CL4				Tube, Electron				V4,14	
3	12AT7				Tube, Electron				V1,6,11	
4	12AU7A				Tube, Electron				V2,7,9,12	
3	12AX7				Tube, Electron				V3,8,13	
					<u>VI</u> SPECIFICATIONS					
	S-101				Caustic Dip					
	S-101				Bright Cadmium Plate					
	S-105				Bright Cadmium Plate					
	S-114				Zinc Chromate Primer					
	S-115				Smooth Grey Enamel					
	S-176				Production Testing of Discriminator Networks					
	S-207				Production Testing of Model RSD-3					
	S-228				Purchasing Spec.: Filter, Bandpass				FX-139	
	S-229				Purchasing Spec.: Filter, Bandpass				FX-140	
	S-230				Purchasing Spec.: Filter, Bandpass				FD-116	
	S-231				Purchasing Spec.: Filter, Bandpass				FD-117	
	S-272				Modification for RCAE Nameplate					
	S-278				Nameplate Data					
	S-404				Yellow Irridite					

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PURCHASED ITEM	MATERIAL LIST		MODEL RSD-3				PROJ. NO.				LIST NO. ML-RSD-3	
			ISSUE	A	B						SHEET	10 OF 12 SHEETS
	QUAN. PER ONE EQUIP.	PART NO.	DWG SIZE	ITEM NO.	DESCRIPTION	REMARKS						
	NOTE: For Model RSD-3A											
1	FD-116-425	2		Filter, Discriminator	ZD-2A (HFO)							
1	FD-116-1275	2		Filter, Discriminator	ZD-1A (BFO)							
1	FD-117-2125	2		Filter, Discriminator	ZD-3A (RFG)							
1	FX-139-425	2		Filter, Bandpass	ZF-4A (HFO)							
1	FX-139-1275	2		Filter, Bandpass	ZF-2A (BFO)							
1	FX-139-2125	2		Filter, Bandpass	ZF-6A (RFG)							
1	FX-140-425	2		Filter, Bandpass	ZF-3A (HFO)							
1	FX-140-1275	2		Filter, Bandpass	ZF-1A (BFO)							
1	FX-140-2125	2		Filter, Bandpass	ZF-5A (RFG)							
	NOTE: For Model RSD-3B											
1	FD-116-595	2		Filter, Discriminator	ZD-2B (HFO)							
1	FD-116-1445	2		Filter, Discriminator	ZD-1B (BFO)							
1	FD-117-2295	2		Filter, Discriminator	ZD-3B (RFG)							
1	FX-139-595	2		Filter, Bandpass	ZF-4B (HFO)							
1	FX-139-1445	2		Filter, Bandpass	ZF-2B (BFO)							
1	FX-139-2295	2		Filter, Bandpass	ZF-6B (RFG)							
1	FX-140-595	2		Filter, Bandpass	ZF-3B (HFO)							
1	FX-140-1445	2		Filter, Bandpass	ZF-1B (BFO)							
1	FX-140-2295	2		Filter, Bandpass	ZF-5B (RFG)							

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PURCHASED ITEM	MATERIAL LIST		MODEL RSD-3		PROJ. NO.		LIST NO. ML-RSD-3	
	QUAN. PER ONE EQUIP.	PART NO.	DWG SIZE	ITEM NO.	DESCRIPTION	REMARKS	SHEET 12 OF 12 SHEETS	
		NOTE: For the Model RSD-3E						
	1	FD-116-1105	2		Filter, Discriminator	ZD-2E (HFO)		
	1	FD-116-1955	2		Filter, Discriminator	ZD-1E (BFO)		
	1	FD-117-2805	2		Filter, Discriminator	ZD-3E (RFG)		
	1	FX-139-1105	2		Filter, Bandpass	ZF-4E (HFO)		
	1	FX-139-1955	2		Filter, Bandpass	ZF-2E (BFO)		
	1	FX-139-2805	2		Filter, Bandpass	ZF-6E (RFG)		
	1	FX-140-1105	2		Filter, Bandpass	ZF-3E (HFO)		
	1	FX-140-1955	2		Filter, Bandpass	ZF-1E (BFO)		
	1	FX-140-2805	2		Filter, Bandpass	ZF-5E (RFG)		
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