

BILL OF MATERIAL

LIST NO. ML-A-374

MODEL DCU DIVERSITY COMBINING UNIT

SERIAL NOS. 101 thru 135 carries nomenclature DCU

SERIAL NOS. 136 and up carries nomenclature DCU-1

(REVISIONS A AND UP)

BILL OF MATERIAL		MODEL DCU-1						PROJ. NO.						LIST NO. ML-A-374	
		ISSUE	A	B	C	D	E	F	G						SHEET 1 OF 6 SHEETS
PART NO.	QUAN. PER ONE EQUIP.	ELECTRICAL PARTS LIST DESCRIPTION		Symbols	DWG REV	REMARKS	CR No								
		BI-101-1/4	1.					1	Lamp, incandescent	11,					
CM-100-1	2.	1	Capacitor, fixed: mica	C21,											
CM-100-2	3.	1	Capacitor, fixed: mica	C22,											
CM-100-3	4.	1	Capacitor, fixed: mica	C23,											
CM20A101K	5.	2	Capacitor, fixed: mica	C4, C9,											
CM20A102K	6.	5	Capacitor, fixed: mica	C2, C5, C8,											
CM20A201K	7.	4	Capacitor, fixed: mica	C29, C30,											
CM20A501K	8.	1	Capacitor, fixed: mica	C1, C6, C10,											
CN-100-1	9.	2	Capacitor, fixed: paper	C11,											
CN-100-3	10.	5	Capacitor, fixed: paper	C19,											
* CN-100-13	11.	1	Capacitor, fixed: paper	C12, C15, C32,											
CN-100-9	12.	1	Capacitor, fixed: paper	C33, C34,											
* CP40C2FF405K	13.	5	Capacitor, fixed: paper	C13,											
CP69B1EF105K	14.	3	Capacitor, fixed: paper	C18,											
CV11C450	15.	2	Capacitor, variable: ceramic	C24, C25,											
CL-109-1	16.	2	Choke, RF	C26, C27, C28,											
CL-109-7	17.	2	Choke, RF	C14, C20, C31,											
FH-100-2	18.	1	Holder, fuse; extractor post type	C3, C7,											
FU-100-2	19.	1	Fuse, cartridge	L1, L2,											
JJ-100	20.	1	Connector, assembly: male contact	L3, L4,											
MR-100-3	21.	2	Meter, microammeter	XF1											
MR-101-1	22.	1	Meter, level indicating	F1,											
RA-100-ASB153A	23.	1	Resistor, variable: wire-wound	J3,											
RA-101-ASSE202A	24.	1	Resistor, variable: wire wound	M1, M2,											
RA-101-ASSE302A	25.	1	Resistor, variable: wirewound	M3,											
RC20GF103K	26.	2	Resistor, fixed: composition	R51,											
RC20GF104K	27.	5	Resistor, fixed: composition	R42,											
RC20GF105K	28.	2	Resistor, fixed: composition	R43,											
RC20GF132J	29.	1	Resistor, fixed: composition	R3, R47,											
RC20GF154K	30.	1	Resistor, fixed: composition	R2, R4, R6,											
RC20GF201J	31.	2	Resistor, fixed: composition	R14, R18,											
RC20GF203J	32.	1	Resistor, fixed: composition	R20, R33,											
CM30C2723	32.1	1	CAPACITOR, fixed: composition	R54,											
				R17,											
				R8, R10,											
				R53,											
				C17											

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MAMARONECK, NEW YORK

THE TECHNICAL MATERIEL CORPORATION

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BILL OF MATERIAL		MODEL DCU-1			PROJ. NO.			LIST NO. ML-A-374	
		ISSUE A B C						SHEET 2 OF 6 SHEETS	
PART NO.	QUAN. PER ONE EQUIP.	ELECTRICAL PARTS LIST DESCRIPTION			DWG REV	REMARKS			
RC20GF204J	33.	1	Resistor, fixed: composition	R52					
RC20GF223K	34.	2	Resistor, fixed: composition	R24, R31,					
RC20GF224K	35.	2	Resistor, fixed: composition	R12, R15,					
RC20GF225K	36.	2	Resistor, fixed: composition	R32, R36,					
RC20GF272J	37.	1	Resistor, fixed: composition	R55,					
RC20GF272K	38.	3	Resistor, fixed: composition	R1, R5, R7,					
RC20GF274K	39.	1	Resistor, fixed: composition	R34,					
RC20GF331K	40.	1	Resistor, fixed: composition	R46,					
RC20GF335K	41.	2	Resistor, fixed: composition	R28, R41,					
RC20GF390J	42.	2	Resistor, fixed: composition	R9, R11,					
RC20GF392K	43.	1	Resistor, fixed: composition	R61,					
RC20GF395K	44.	1	Resistor, fixed: composition	R27,					
RC20GF472K	45.	3	Resistor, fixed: composition	R13, R59,					
				R60,					
RC20GF474K	46.	5	Resistor, fixed: composition	R19, R22, R29,					
				R37, R38,					
RC20GF684K	47.	1	Resistor, fixed: composition	R39,					
RC20GF823K	48.	1	Resistor, fixed: composition	R16,					
RC20GF824K	49.	1	Resistor, fixed: composition	R25,					
RC42GF102K	50.	1 *	Resistor, fixed: composition	R57,					
RC30GF182K	51.	1	Resistor, fixed: composition	R44,					
RC30GF473K	52.	1	Resistor, fixed: composition	R35,					
RC30GF823K	53.	2	Resistor, fixed: composition	R23, R30,					
RW-109-30	54.	1 *	Resistor, fixed: composition	R58,					
RR-104-903	55.	1	Resistor, fixed: metallized film	R48,					
RR-104-11111	56.	1	Resistor, fixed: metallized film	R50,					
RR-104-33333	57.	1	Resistor, fixed: metallized film	R49,					
RV4ATSA255B	58.	1	Resistor, variable: composition	R40,					
RV4ATSD504B	59.	1 *	Resistor, variable: composition	R21,					
RV4ATFD255B	60.	1 *	Resistor, variable: composition	R26,					
RW-107-48	61.	1 *	Resistor, fixed: wire-wound	R45,					
RW-109-26	62.	1	Resistor, fixed: wire-wound	R56,					
SW-112	63.	1	Switch, rotary: non-shorting	S4,	A				
SW-118	64.	1	Switch, rotary: non-shorting	S6,					
SW-119	65.	1	Switch, rotary: non-shorting	S1,					
SW-120	66.	2	Switch, rotary: non-shorting	S2, S3,					
TF-106	67.	1	Transformer, filament & power	T1	F				
TF-113	68.	1	Transformer, AF	T2,	A				
TF-114	69.	1	Transformer, AF	T3,	A				

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ISS. CHANGE TF-123 (ITEM 67) DATE 1-6-54 APP Q/25
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PART NO.	QUAN. PER ONE EQUIP.	ELECTRICAL PARTS LIST DESCRIPTION		Symbol	DWG REV	REMARKS
TF-5000	70.	1	Reactor, filter choke	L6,	A A	
TF-5002	71.	1	Reactor, fixed: Prim	L5,		
TM-100-4	72.	1	Board, terminal; gen'l purpose	E2,		
TM-100-12	73.	1	Board, terminal; gen'l purpose	E1,		
TS-121	74.	1	Socket, tube: octal	XZ1		
TS102P01	75.	13	Socket, tube: 7 pin min.	XV1,2,3,4,5,6,7, 9,11,12,13,14,15,		
TS103P01	76.	1	Socket, tube: 9 pin min.	XV8,		
TS-106-1	77.	1	Light, indicator: w/lens	XI1,		
UG-625/U	78.	2	Connector, coaxial: female chassis rec.	J1, J2,		
OA2	79.	1	Tube, electron, min. 7 pin	V14,		
OB2	80.	3	Tube, electron, min. 7 pin	V12,13,15,		
5Y3GT	81.	1	Tube, electron, duodiode rect. octal	V10,		
6AQ5	82.	1	Tube, electron: beam power amp.	V9,		
6AL5	83.	2	Tube, electron: RMA 6AL5,	V3, V4,		
6AU6	84.	2	Tube, electron: RMA 6AU6	V5, V6,		
6BA6	85.	2	Tube, electron: min 7 pin	V1, V2,		
6C4	86.	1	Tube, electron: RMA min. 7 pin	V7,		
6X4	87.	1	Tube, electron: duo triode	V11,		
12AU7	88.	1	Tube, electron: duo triode, min. 9 pin	V8,		
TS-102-U01	89.	2	Shield, Tube			
TS-102-U02	90.	5	Shield, Tube			
TS-102-U03	91.	6	Shield, Tube			
TS-103-U02	92.	1	Shield, Tube			
TS-101-P01	92.1	1	Socket, Tube Octal (Use Cinch No. 51B13405)	XV10	B	
PX-337-4	92.2	1	INSULATION, TERM. STRIP			
PX-337-12	92.3	1	" " "			

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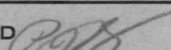
BILL OF MATERIAL		MODEL DCU-1				PROJ. NO.				LIST NO. ML-A-374	
		ISSUE	A	B						SHEET 4 OF 6 SHEETS	
PART NO.	QUAN. PER ONE EQUIP.	DESCRIPTION				DWG REV	REMARKS	C/R No.			
CU-100-5	93	1	Tube Clamp								
EY-102-1	94	2	Grommet, Elastic								
EY-102-3	95	5	Grommet, Elastic								
EY-102-4	96	2	Grommet, Elastic								
FS-100	97	11	* Spring Unit								
FS-105-5	98	11	* Stud, Oval Head								
HA-102-5	99	2	Handle								
LWI 37 LSC	100	6	Lockwasher, Int. Tooth								
LWS03MRC	101	30	* Lockwasher, Split								
LWS04LRC	102	28	Lockwasher, Split								
LWS04MRC	103	43	Lockwasher, Split								
LWS06MRC	104	53	Lockwasher, Split								
LWS08MRC	105	7	Lockwasher, Split								
LWS10MRC	106	6	Lockwasher, Split								
MP-100-4	107	7	Knob				D				
MS-154-1	108	4	Straddle Plate								
MS-232	109	1	Shield Cover					.031 x .143 sq. ft.			
MS-233	110	1	Shield Partition				A	.051 x .041 sq. ft.			
MS-234	111	2	Bracket, Cover					.051 x .006 sq. ft.			
MS-235	112	1	* Cover, Bottom (No. DWG.)					.051 x 1.65 sq. ft. See: A-454			
MS-236	113	1	* Cover, Top (No. DWG.)					.051 x 2.2 sq. ft. " A-456			
MS-237	114	2	Plate, Side				A	.064 x 1.85 sq. ft.			
MS-238	115	1	Panel, Front					3/16 thk. x .92. sq. ft.			
MS-239	116	1	Shield, Bottom				A	.051 x .25 sq. ft.			
MS-244	117	1	Chassis, Main				B	.064 x 2.1 sq. ft.			
NP-103-2	118	1	Name Plate								
NT-101-4	119	13	Nut, Strap								
NT-101-5	120	1	Nut, Strap								
NT-108	121	9	Nut, Speed								
NTH0348BC6	122	30	* Nut, Hex								
NTH0440BC6	123	37	Nut, Hex								
NTH0632BC10	124	45	Nut, Hex								
NTH0832BC10	125	3	Nut, Hex								
NTH1032BC10	126	2	Nut, Hex								
NTH3732BN16	127	6	Nut, Hex								
PN-105	128	12	* Pin								
PX-104-1-.034	129	1'	Insulation, Sleeving								
PX-104-2-.034	130	0'	4" Insulation, Sleeving								
NP-134	130.1	1	NAME PLATE, PATENT								

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DIVERSITY COMBINING UNIT

BILL OF MATERIAL		MODEL DCU-1				PROJ. NO.				LIST NO. ML-A-374	
		ISSUE	A							SHEET 5 OF 6 SHEETS	
PART NO.	QUAN. PER ONE EQUIP.	DESCRIPTION				REMARKS				DWG REV	
PX-132	1	Terminal Board #2 (No Drawing) WAS: AMS233 131.				See A-372 1/8 thk x .13 sq. ft.					
PX-133	1	Terminal Board #1 (No Drawing) " AMS232 132.				See A-373 1/8 thk x .22 sq. ft.					
SFB04A0SC4	4	Screw, Thread Cutting									
SCBS044OBC4	20	Screw, Machine									
SCBS044OBC10	4	Screw, Machine									
SCBS0632BC4	6	Screw, Machine									
SCBS0632BC6	23	Screw, Machine									
SCBS0832BC8	7	Screw, Machine									
SCBS1032BC6	2	Screw, Machine									
SCBS1032BC10	4	Screw, Machine									
SCFS0348BC4	30	Screw, Machine									
SCFS0632BC24	5	Screw, Machine									
SCRS0256BC4	2	Screw, Machine									
SCRS044OBC4	28	Screw, Machine									
SCRS044OBC8	16	Screw, Machine									
SCRS0632BC4	24	Screw, Machine									
SCRS0632BC36	1	Screw, Machine									
SRIR3/5 (7)22U 11	2'	Cable, insulated									
SRIR3/5 (7)22U 22	11'	Cable, insulated									
SRIR3/5 (7)22U 33	10'	Cable, insulated									
SRIR3/5 (7)22U 44	7'	Cable, insulated									
SRIR3/5 (7)22U 55	12'	Cable, insulated									
SRIR3/5 (7)22U 66	21'	Cable, insulated									
SRIR3/5 (7)22U 77	2'	Cable, insulated									
SRIR3/5 (7)22U 99	2'	Cable, insulated									
SRIR3/5 (7)22U 92	15'	Cable, insulated									
SRIR3/5 (7)22U 93	4'	Cable, insulated									
SRIR3/5 (7)22U 94	4'	Cable, insulated									
SRIR3/5 (7)22U 95	3'	Cable, insulated									
SRIR3/5 (7)22U 96	14'	Cable, insulated									
TE-104-1	6	Terminal, Locking									
TE-104-2	5	Terminal, Locking									
TE-109-3	132	Lug, Split Terminal									
TE-117-1	12	Spacer, stand-off									
TE-117-5	6	Spacer, stand-off									
WA-101-3	4	Washer, Fiber									
WI-101-1	30'	Cable, Shielded									
WL-100-7	6'	Wire, Busbar									
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DIVERSITY COMBINING UNIT

BILL OF MATERIAL		MODEL	DCU-1				PROJ. NO.	LIST NO.	MI-A-374	
		ISSUE	A	B	C	D		SHEET	6 OF 6 SHEETS	
PART NO.	QUAN. PER ONE EQUIP.	DESCRIPTION				REMARKS	DWG REV			
FS-101	1	Bracket, angle				169.				
FS-105-1	1	Stud, oval head				170.				
SCFS044OBC6	2	Screw, machine				171.				
P.O.-106-6-T	1	Plug-in Socket w/cover				172.				
MS-154-1	8	Straddle plate				173.	DELETE			
ST22K	1	Switch, toggle				174				
<u>SUPPORTING DRAWINGS</u>										
A-454		Cover, top				200.				
A-456		Cover, bottom				201.				
A-358		Network, Frequency Determining				202.	Z1 WAS: AEM063			
A-372		Terminal Board Assembly No. 2				203.	" AMS233			
A-373		Terminal Board Assembly No. 1				204.	" AMS232			
A-374		Final Assembly (Not Drawn)				205.	"			
CA-154		Cable Assembly (R-43)				206.	" AEM058			
CA-155		Cable Assembly, Main				207.	" DEM003			
CK-141		Schematic Diagram				208.	" CES012			
LD-134		Front Panel Engraving				209.	" CEM017			
LD-136		Silk Screening, Terminal Board No.1.				210.				
LD-137		Silk Screening, Terminal Board No. 2.				211.				

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