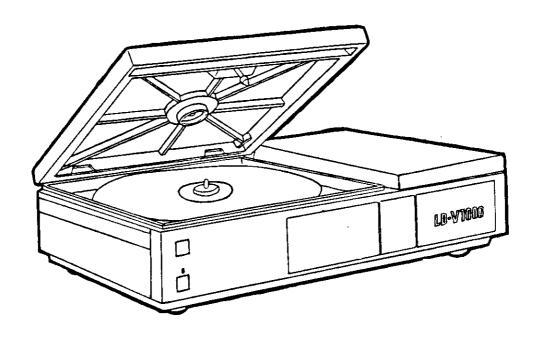
### **VIDEO DISC PLAYER**

# LD-V1000

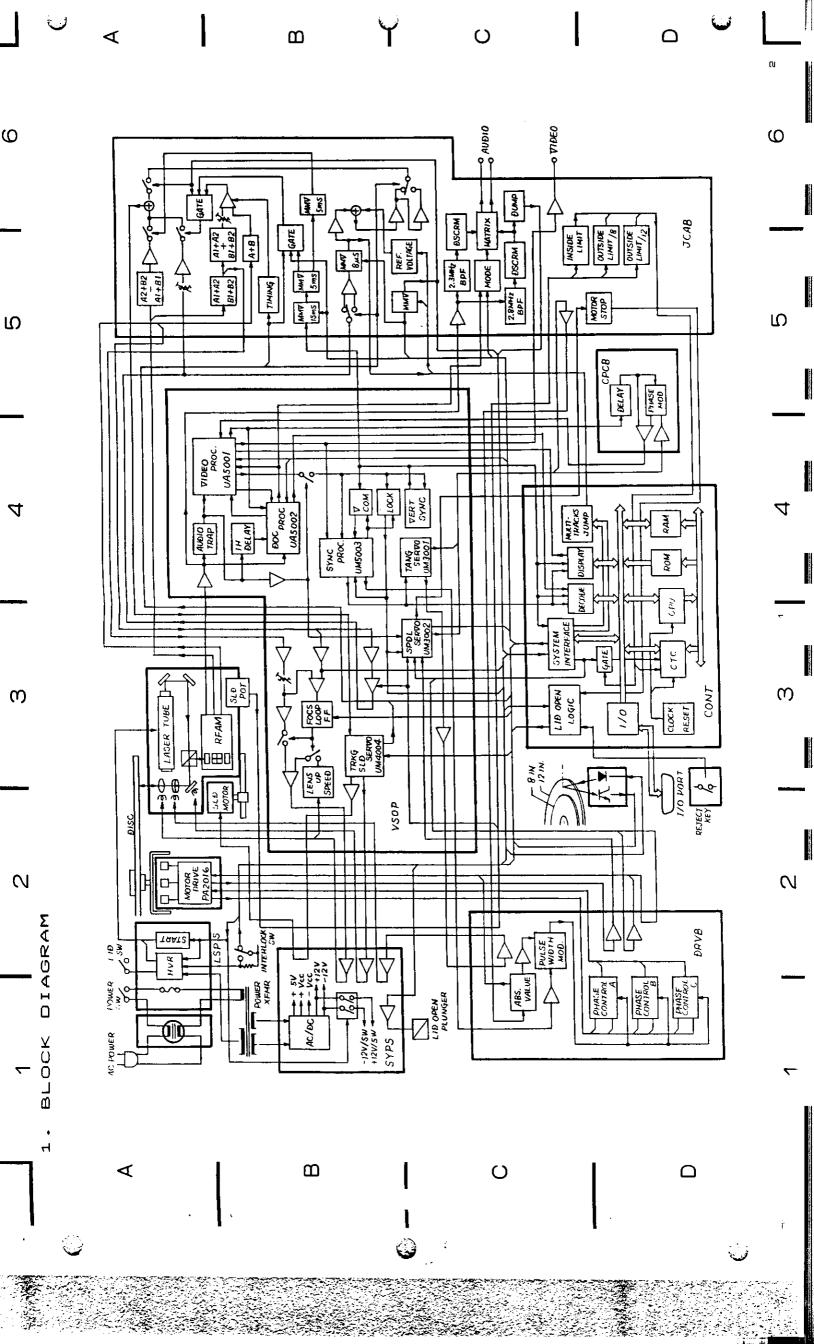
PROVISIONAL SERVICE MANUAL



### **■** CONTENTS

- 1. BLOCK DIAGRAM
- 2. WAVE FORMS
- 3. CIRCUIT DIAGRAMS AND PARTS LISTS
- 4. EXPLODED VIEWS AND PARTS LIST

Note: Please use this temporarity till the regular service manual is ready.



### 2. WAVE FORMS

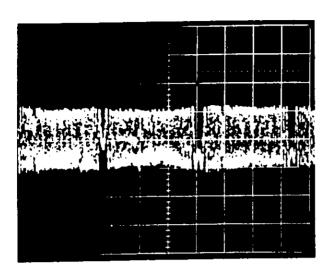


Photo-1.

TP501-1. when the servo loop is opened

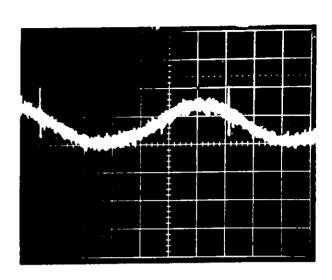


Photo-2.

TP501-1. when the servo loop is closed

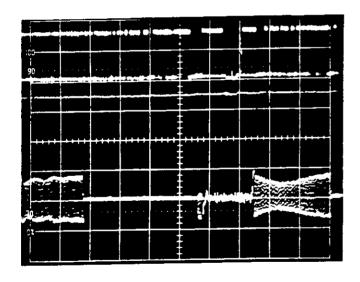
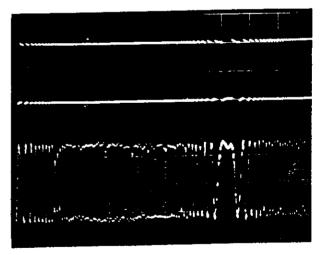


Photo-3.

Tracking mirror current in SEARCH mode

upper: Video signal

lower: Tracking mirror current



### Photo-4.

ON TRACK signal

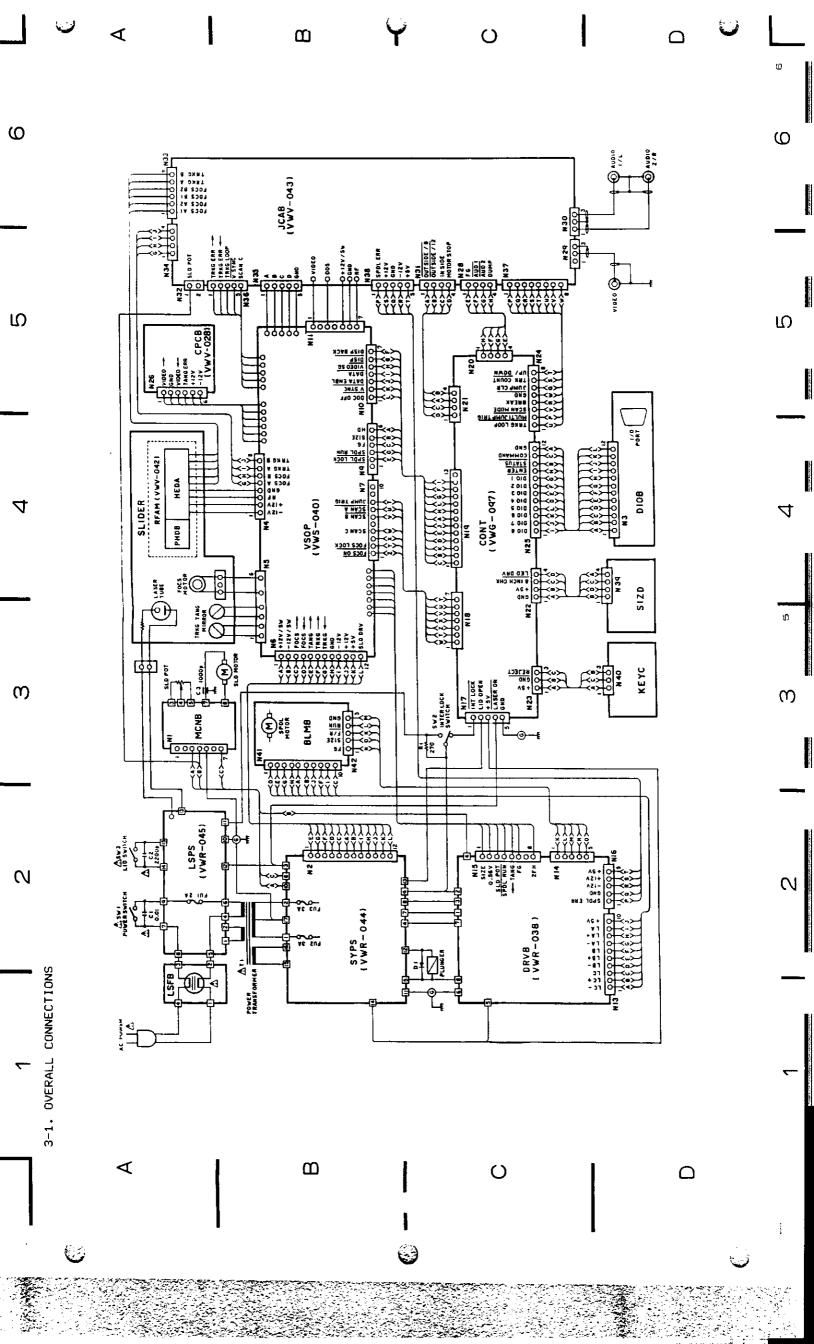
upper: ON TRACK signal lower: Tracking error

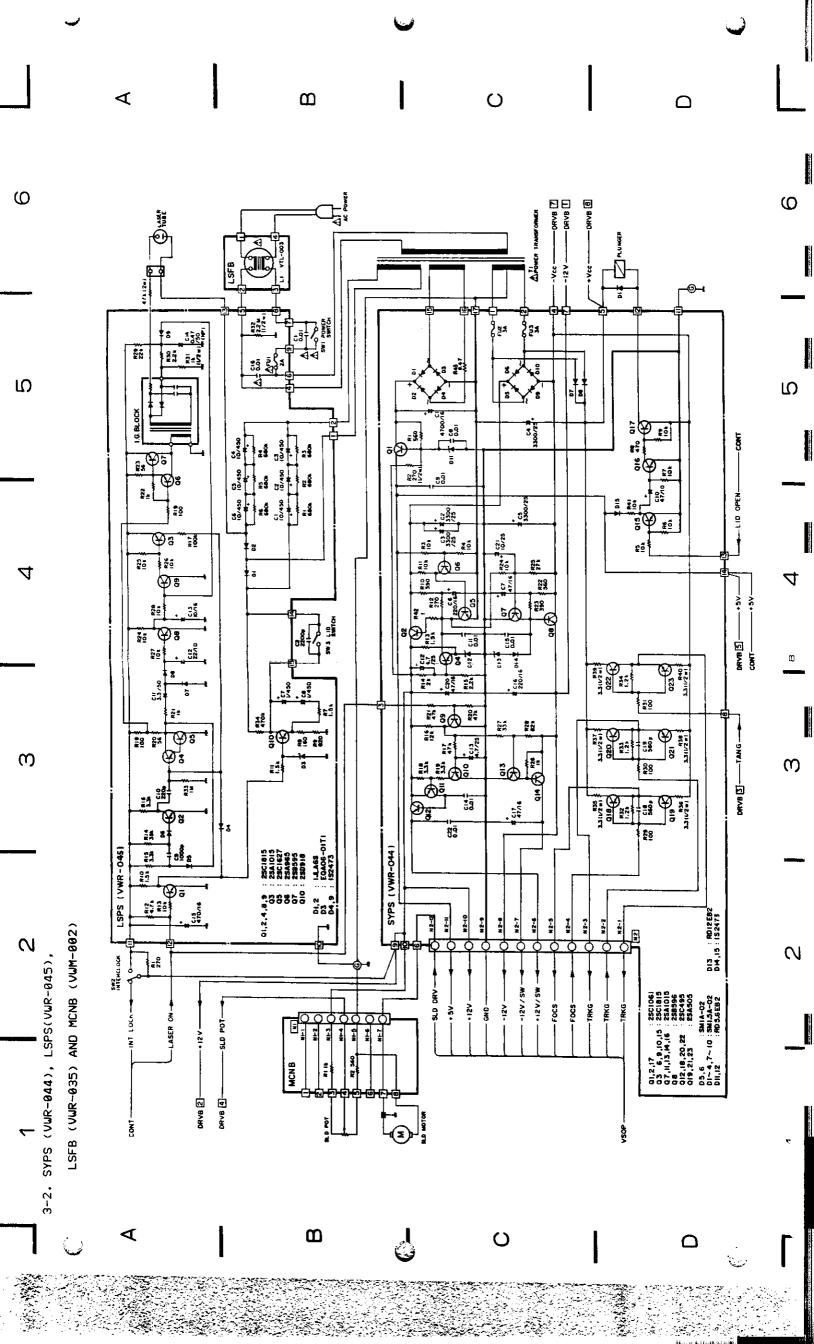
### 3. CIRCUIT DIAGRAMS AND PARTS LISTS

### ELECTRICAL PARTS LIST

	Mk.	Parts No.	Description
CIRCUIT	BOARDS	VWR-944	SYPS
CIRCOI	50111125	VWR-045	LSPS
	•	VWR-035	LSFB
		VWM-892	MCNB
	•	VWR-038	DRVB
		VUV-042	RFAM
		VUV-043	JCAB
		VUS-040	VSOP
		VUV-028	CPCB
		VWG-097	CONT
	7	VUG-098	KEYC
		VWG-099	SIZD
		VWG-100	DIOB
ı	OTHERS	VTT-034	Power transformer
		VXM-029	Spindle motor
		VXM-030	Slider motor
		VXP-005	Plunger
		VGX-043	Slider assembly
		VSA-006	SW1 Power switch
		VSF-006	SW2 Interlock switch
		VSF-007	SW3 Lid switch
		SM1A-02	D1
		RD1/4PM271J	R1
		VCS-005	Potentiometer
		VCG-011	C1
		VCG-013	C2
		VCG-005	C3
		VDG-016	Power cord

Note: T marked parts are not supplied as service parts.





### LSPS(VWR-045)

Part No.	Ref No., Descriptions	Part No. Ref No., Descriptions
2SC1061-B/C 2SC1815-Y	Q 1, 2, 17 Q 4	2SC1815-0/Y/GR Q 1, 2, 8, 9
2SC1815-0/Y/GR	Q 5, 6, 9, 10, 15	(2SC2320-E/F) (2SC2603-E/F)
(2SC2320-E/F) (2SC2603-E/F)		2SA1015-0/Y/GR Q 3 2SC1815-0/Y Q 4
25A1015-0/Y	Q 7, 11, 13, 14, 16	2SC1627-0/Y Q 5 2SA965-0/Y Q 6
2SB596-0/Y	Q 8	
2SC495-0/Y	0 12, 18, 20, 22	2SB595-0/Y Q 7 2SD818 Q 10
SA505-0/Y	Q 19, 21, 23	
		GHV-03Z D 1, 2 (GHV-03SSN)
SM1.5A-02	D 1- 4, 7- 10	(1JLA6S) EQA01-06TI D 3
SM1A-02	D 5. 6	1S2473 D 4- 9
RD5.6EB2	D 11, 12	
RD12EB2	D 13	004 (404
S2 <b>473</b>	D 14, 15	RD1/4PM000J R 1- 8, 10- 30, 33, 34
		RN1/4PR8200F R 9
01/4PM000J	R 1, 3-11, 13, 16-34, 41,	RD1/2VS102J R 31
1/2VS271J	R 2	VCH-003 C 1- 6
N1/4PRODOOF	R 14, 15	10/450
D1/2VS3R3J	R 35- 40	VCH-010 C 7, 8 1/450 CKDYB102K50 C 9
	B 43	CCDSL221J50 C 10
CN-116	R 43	CEA3R3M50 C 11
EA472M16	C 1	CEA220M10 C 12
CH-009	C 2- 5	CEA100M4 / C 43
	3300/25	CEA100M16 C 13 CEAR47M50NP C 14
EA221M16	C 6, 16	CEA471M16 C 15
EA470M16 KDYF103Z50	C 7, 17, 20 C 8, 9, 11, 14, 15, 22	VCG-011 C 16 0.01uF
EA470M10	C 10	VEK-004 FU 1 Fuse 2A
EA4R7M25	C 12, 13	VKR-001 Fuse holder
VDV05/1850	C 18, 19	VDA-022 H.V. cord
KDYB561K50 EA100M25	C 21	VKN-049 H.V. cap
	_	VCA-004 I.G. block
EK-006	FU 2, 3 Fuse 3A	
EC-028 EC-072	Spacer Insulator/mica	
EC-101	Insulator/silicon	
BA-003	Screw Fuse holder	L CER (UNP-035)
KR-001	ruse norder	LSFB(VWR-035)

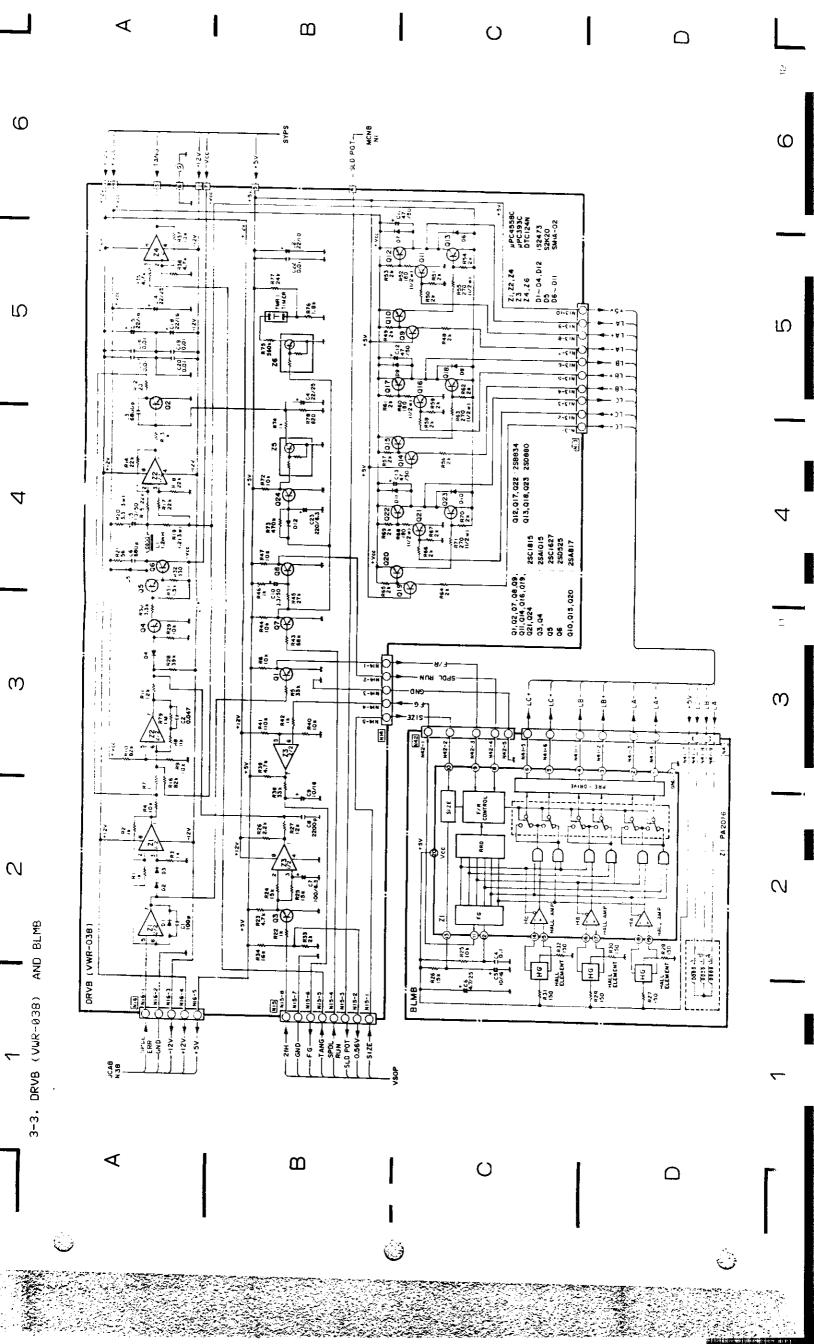
### MCNB (VWM-002)

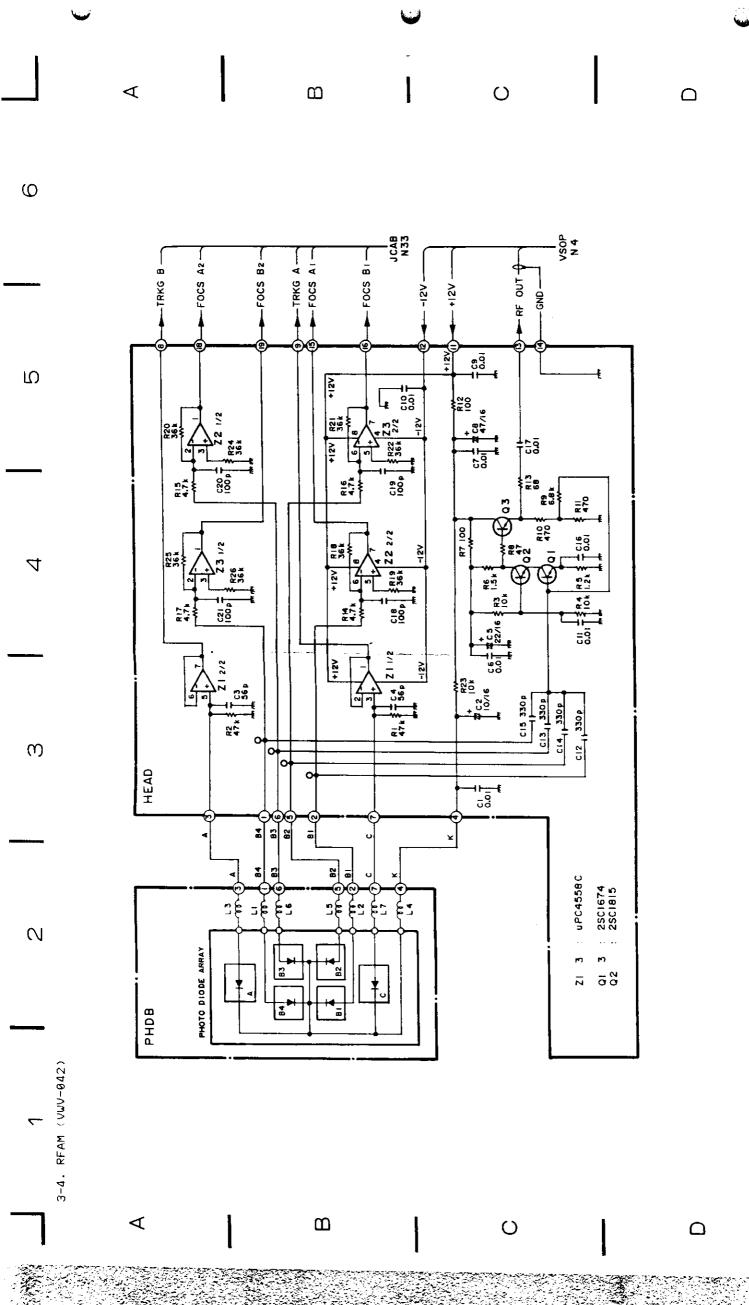
Pant No.		Ref	No.,	Descriptions
RD1/4PM000J	R	1,	2	

Part No.		Ref No.,	Descriptions
VTL-003 (VTL-004)	L	1	Line filter

Note: LSFB and MCNB are not supplied as service parts.

Part No.		Ref	No.	, 0	escr	ipti	eno	
UPC4558C	z	1.	2.	4				
(NJM4558D)		_ •						
UPC393C	Z	3						
	ž	5.	6					
DTC124N		٠,						
2SC1815-Y/GR	Q	1. 19.	2. 21	7-	9,	11,	14,	16
2SA1015-Y/GR	Q	3,	4					
2SC1627-0/Y	õ	5						
2SD525-0/Y	Q	6						
2SA817-0/Y	Q		15,	20				
200034_V (CP	Q	12	17.	22				
2SB834-Y/GR								
2SD880-Y/GR	Q		18,	23				
2SC1815-GR	Q	24						
152473	D	1-	4,	12				
S2K20	Đ	5						
SM1A-02	D	6-	11					
RD1/4PMoooJ	R	1-	13,	16,	21-	51,	53,	54
		56-	59,	61,	62,	64-	67,	69
			72-					
RN1/4PR2202F	R	14,	15,	17,	18			
VCN-092	0	40		4	.2/3	: 1		
	R	19		Τ.	. 2/ 3	_		
VCN-098	R	20			.3/3			
VCN-098		20	55,	3	.3/3		71	
	R	20	55,	3	.3/3	Ų	71	
VCN-098 RD1/2VS000J	R R C	20 52,	55,	3	.3/3	Ų	71	
VCN-098 RD1/2VS000J CCDSL101J50	R R	20 52, 1 2	55,	3	.3/3	Ų	71	
VCN-098 RD1/2VS000J CCDSL101J50 CQMA473J50	R R C	20 52, 1 2	55,	3	.3/3	Ų	71	
VCN-098 RD1/2VS000J CCDSL101J50 CQMA473J50 CKDYB682K50 CEA220M25	RR GCCC	20 52, 1 2	55, 14	3	.3/3	Ų	71	
VCN-098	R R C C C	20 52, 1 2		3	.3/3	Ų	71	
VCN-098 RD1/2VSDDDJ CCDSL101J50 CQMA473J50 CKDYB682K50 CEA220M25 CEA100M50	R R C C C C C	20 52, 1 2 3 4, 5		3	.3/3	Ų	71	
VCN-098 RD1/2VSDDDJ CCDSL101J50 CQMA473J50 CKDYB682K50 CEA220M25 CEA100M50 CKDYB681K50	RR CCCCC C	20 52, 1 2 3 4.		3	.3/3	Ų	71	
VCN-098 RD1/2VS000J CCDSL101J50 CQMA473J50 CKDYB682K50 CEA220M25 CEA100M50 CKDYB681K50 CEA101M6R3	RR GCCCC CC	20 52, 1 2 3 4, 5		3	.3/3	Ų	71	
VCN-098 RD1/2VSDDDJ CCDSL101J50 CQMA473J50 CKDYB602K50 CEA220M25 CEA100M50 CKDYB681K50 CEA101M6R3 CQMA222J50	RR GCCCC GCC	20 52. 1 2 3 4. 5		3	.3/3	Ų	71	
VCN-098 RD1/2VS000J CCDSL101J50 CQMA473J50 CKDYB682K50 CEA220M25 CEA100M50 CKDYB681K50 CEA101M6R3	RR GCCCC CC	20 52, 1 2 3 4, 5		3	.3/3	Ų	71	
VCN-098 RD1/2VSDDDJ CCDSL101J50 CQMA473J50 CKDYB682K50 CEA220M25 CEA100M50 CKDYB681K50 CEA101M6R3 CQMA222J50 CEA100M16 CEA3R3M50		20 52. 1 2 3 4. 5 6 7 8 9	14	3	.3/3	Ų	71	
VCN-098 RD1/2VSDDDJ  CCDSL101J50 CCMA473J50 CKDYB682K50 CEA220M25 CEA100M50  CKDYB681K50 CEA101M6R3 CCMA222J50 CEA100M16 CEA3R3M50  CEA470M50	<b>RR</b> 60000 00000 0	20 52. 1 2 3 4. 5 6 7 8 9 10	14	3	.3/3	Ų	71	
VCN-098 RD1/2VSDDDJ CCDSL101J50 CQMA473J50 CKDYB682K50 CEA220M25 CEA100M50 CKDYB681K50 CEA101M6R3 CQMA222J50 CEA100M16 CEA3R3M50 CEA470M50 CEA470M50	<b>RR</b> 00000 00000 00	20 52. 1 2 3 4. 5 6 7 8 9 10 11- 15,	14	3 60,	.3/3' 63,	<b>.</b>	71	
VCN-098 RD1/2VSDDDJ CCDSL101J50 CQMA473J50 CKDYB682K50 CEA220M25 CEA100M50 CKDYB681K50 CEA101M6R3 CQMA222J50 CEA100M16 CEA3R3M50 CEA470M50 CEA470M50 CEA4220M16	<b>RR</b> 60000 00000 0	20 52. 1 2 3 4. 5 6 7 8 9 10	14	3 60,	.3/3' 63,	<b>.</b>	71	
VCN-098 RD1/2VSDDDJ  CCDSL101J50 CQMA473J50 CKDYB682K50 CEA220M25 CEA100M50  CKDYB681K50 CEA101M6R3 CQMA222J50 CEA100M16 CEA3R3M50  CEA470M50 CEA470M50 CEA4220M16 CKDYF103Z50	RR 00000 00000 000 0	20 52. 1 2 3 4. 5 6 7 8 9 10 11- 15.	14	3 60,	.3/3' 63,	<b>.</b>	71	
VCN-098 RD1/2VSDDDJ  CCDSL101J50 CQMA473J50 CKDYB682K50 CEA220M25 CEA100M50  CKDYB681K50 CEA101M6R3 CQMA222J50 CEA100M16 CEA3R3M50  CEA470M50 CEA220M16 CKDYF103Z50 CEA220M10	<b>RR</b> 00000 00000 00	20 52. 1 2 3 4. 5 6 7 8 9 10 11- 15,	14	3 60,	.3/3' 63,	<b>.</b>	71	
VCN-098 RD1/2VSDDDJ CCDSL101J50 CQMA473J50 CKDYB682K50 CEA220M25 CEA100M50 CKDYB681K50 CEA101M6R3 CQMA222J50 CEA100M16 CEA3R3M50	RR 00000 00000 000 0	20 52. 1 2 3 4. 5 6 7 8 9 10 11- 15, 16, 21	14	3 60,	.3/3' 63,	<b>.</b>	71	
VCN-098 RD1/2VSDDDJ  CCDSL101J50 CQMA473J50 CKDYB682K50 CEA220M25 CEA100M50  CKDYB681K50 CEA101M6R3 CQMA222J50 CEA100M16 CEA3R3M50  CEA470M50 CEA220M16 CKDYF103Z50  CEA220M10 CEA221M6R3  VTT-021	RR 00000 00000 000 00 1	20 52. 1 2 3 4. 5 6 7 8 9 10 11- 16, 21 23	13 18 17,	3 60,	.3/3/ 63,	<b>.</b>	71	
VCN-098 RD1/2VSDDDJ  CCDSL101J50 CQMA473J50 CKDYB682K50 CEA220M25 CEA100M50  CKDYB681K50 CEA101M6R3 CQMA222J50 CEA100M16 CEA3R3M50  CEA470M50 CEA470M50 CEA220M16 CKDYF103Z50  CEA221M6R3  VTT-021  VKR-001	RR GCGGG GGGGG GGG GG	20 52. 1 2 3 4. 5 6 7 8 9 10 11- 15. 123 1	14 13 18 17,	3 60,	.3/3/ 63,	<b>.</b>	71	
VCN-098 RD1/2VSDDDJ  CCDSL101J50 CDMA473J50 CKDYB682K50 CEA220M25 CEA100M50  CKDYB681K50 CEA101M6R3 CQMA222J50 CEA100M16 CEA3R3M50  CEA470M50 CEA220M16 CKDYF103Z50  CEA221M6R3  VTT-021  VKR-001 VEC-028	RR GOOGG GGGGG GGG GG J	20 52, 1 2 3 4, 5 6 7 8 9 10 11- 15, 16, 21 23 1	13 18 17,	3 60,	.3/3/ 63,	<b>.</b>	71	
VCN-098 RD1/2VSDDDJ  CCDSL101J50 CQMA473J50 CKDYB682K50 CEA220M25 CEA100M50  CKDYB681K50 CEA101M6R3 CQMA222J50 CEA100M16 CEA3R3M50  CEA470M50 CEA420M16 CKDYF103Z50  CEA220M10 CEA221M6R3	RR GCCCC GCCCC CCC CC J	20 52. 1 2 3 4. 5 6 7 8 9 10 11- 15. 123 1	14 13 18 17,	3 60,	.3/3/ 63,	<b>.</b>	71	





ဖ

Ŋ

 $\mathfrak{C}$ 

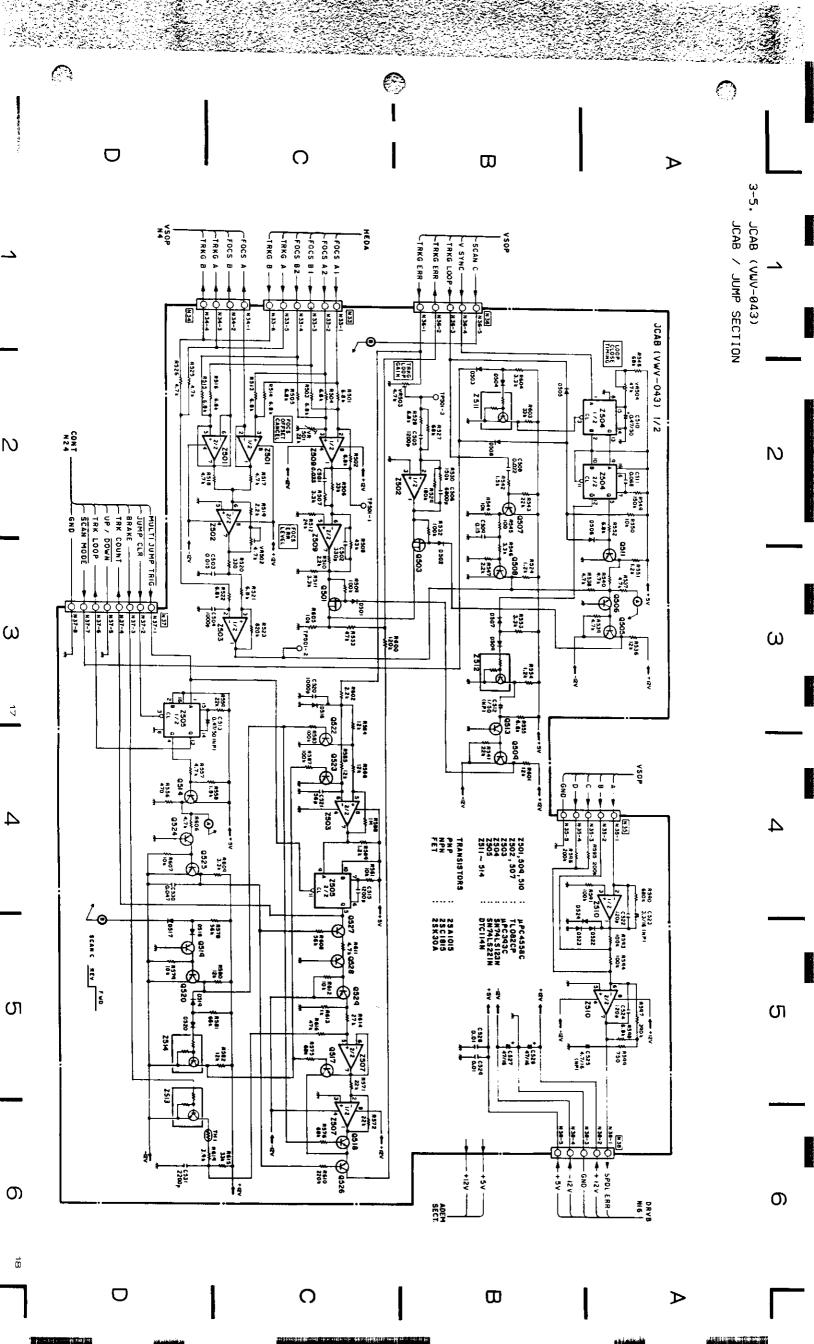
C

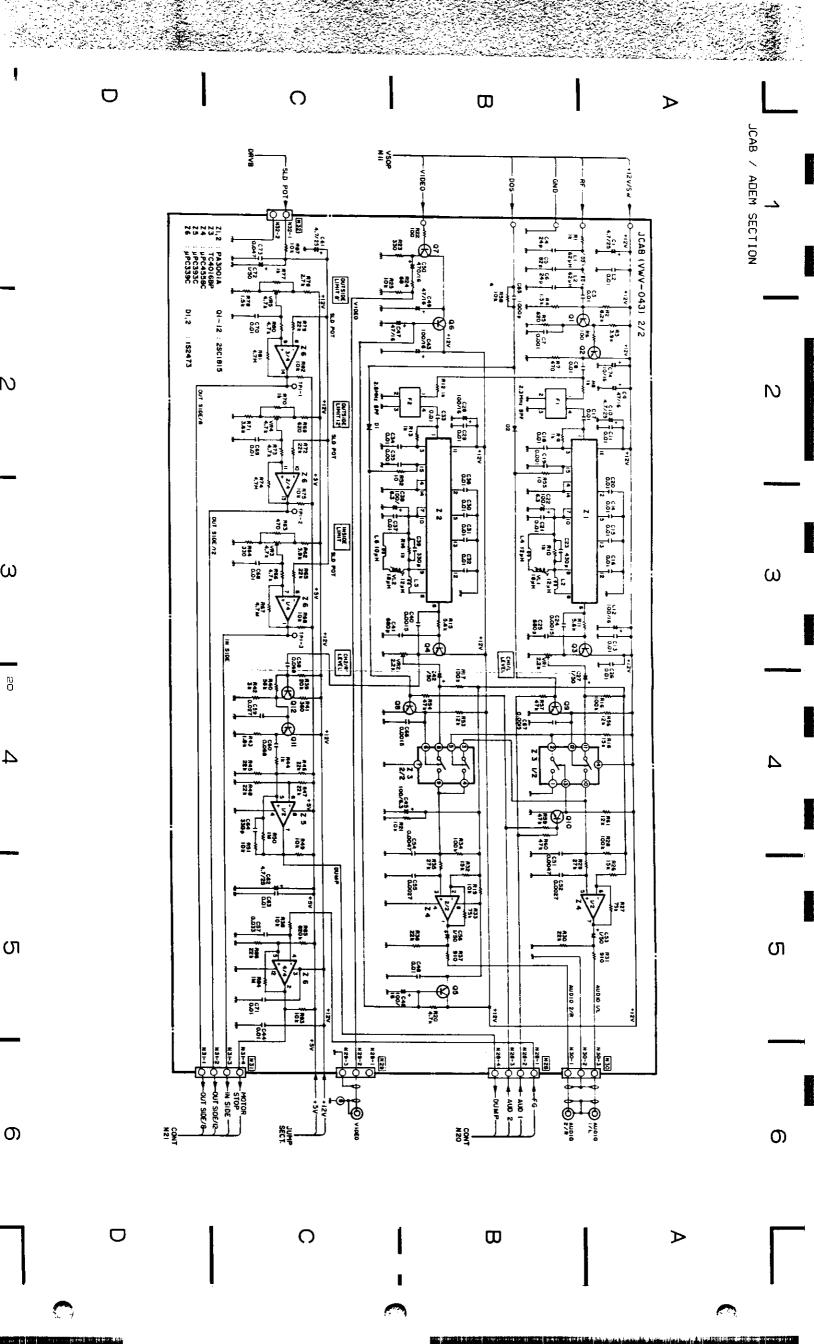
### RFAM(VWV-042)

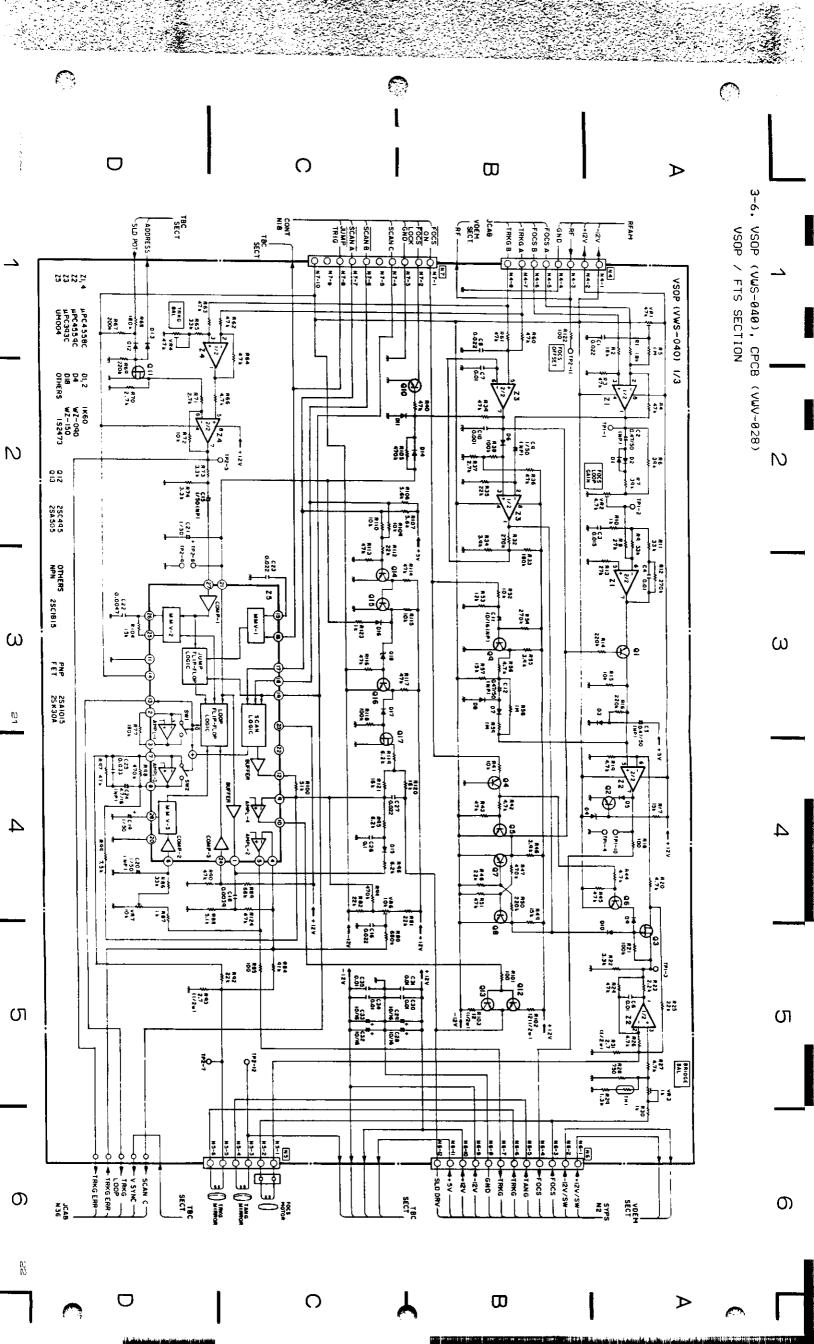
Part No.	Ref No., Descriptions
UPC <b>4558C</b>	Z 1- 3
2SC1674-L/K	Q 1, 3
(2SC2786-L/K) 2SC1815-Y	Q 2
RD1/4PMDDDJ	R 1- 17, 19, 22- 24, 26
RN1/4PR3602F	R 18, 20, 21, 25
CKDYF103Z50	C 1, 6, 7, 9-11, 16, 17
CEA100M16 CCDSL560J50 CEA220M16 CEA470M16	C 2 C 3, 4 C 5 C 8
CCDSL331K50	C 12- 15
CCDSL101J50	C 18- 21
VTF-011	L 1- 7
VKP-315 VKP-314	Conn.cords Conn.cords

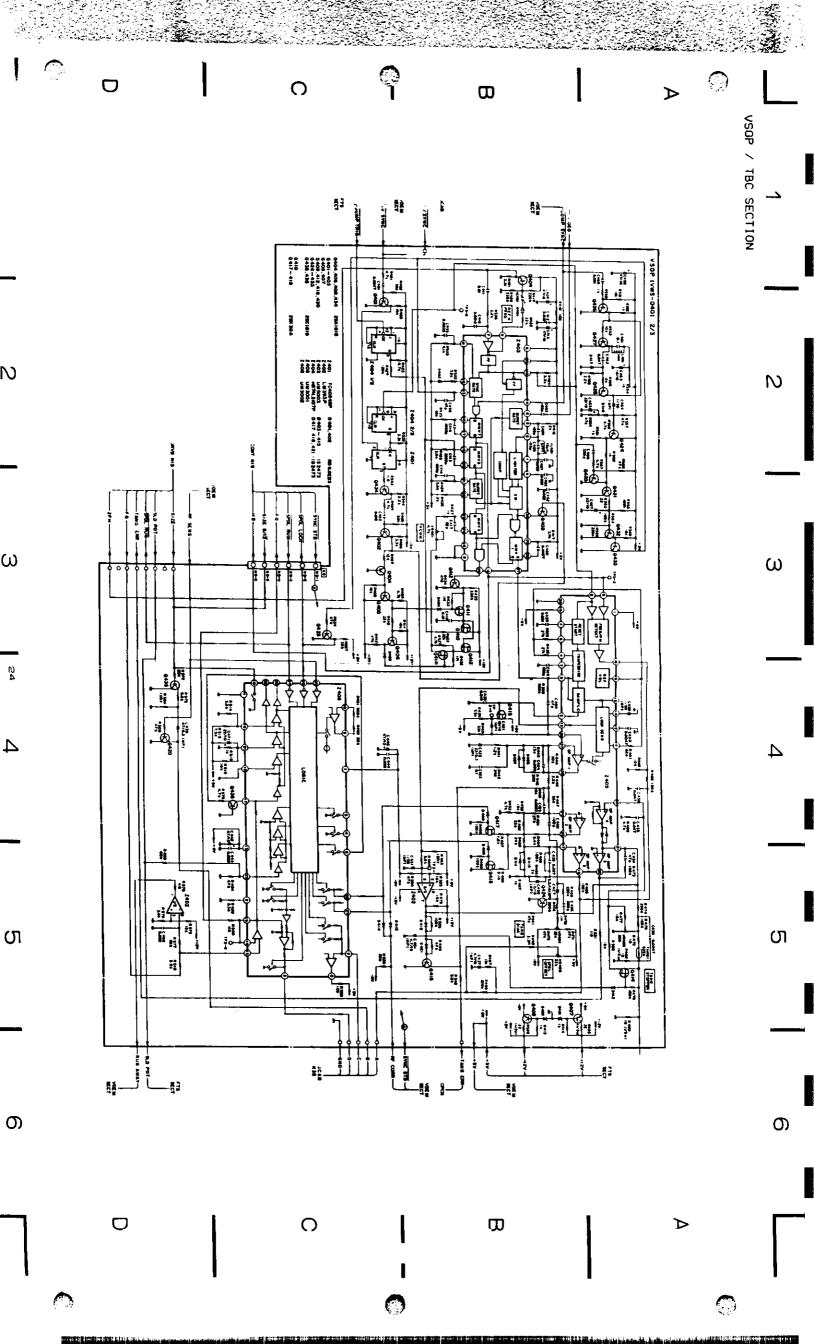
### JCAB(VWV-043)

Part No.	Ref No., Descriptions	Part No.	Ref No.,	Descriptions
PA3001A TC4016BP UPC4558C (NJM4558D) UPC393C	Z 1, 2 Z 3 Z 4,501,509,510	CKDYF473Z50 CEA100M16 CQMA333J50 C	66, 67 73 74 501 503	
UPC339C TL082CP SN74LS123N (HD74LS123P) SN74LS221N	Z 6 Z 502,507 Z 504 Z 505	CQMA682J50 C CQMA223J50 C CQMA154J50 C	505 506 508 509 510,513	
(HD74LS221P) DTC114F	Z 511-514	CEAR47M50NP C CQMA122J50 C	512 513 515 521	
2SC1815-Y/GR	Q 1~ 3, 7,525,529	CCDSL121J <b>50</b> C	522,524	
2SC1815-0/Y/GR	511,517,518.520,522,523	CEA4R7M16NP C CQMA473J50 C	523 525 530	
2SC1015-0/Y/GR 2SK30A-Y	Q 12,506,507,513,514,519, <b>524,</b> 526-528 Q 501,503		531 532	
1\$2473	D 1, 2,501-509,516-520, <b>522-</b> 524	VTL-048 L (VTL-068)	1, 2	62uH
RD1/4PM000J	R 1-87,501-512,517-530 532,533,536-559,561,571 572,575,576,578-591,593-616 618,619	VTL-024 L (VTL-062) VTL-024 L (VTL-062)	4	12uH 12uH
RN1/4PR6801F	R 513-516	VTL-023 L (VTL-061)		10uH
VCP-025 VCP-006	VR 1, 2 2.2k VR 3- 5,502,503	VTF-006 VI (VTF-021)	L 1, 2	18 <sub>0</sub> H
VCP-008 VCP-009	4.7k VR501 22k VR504 47k	VTF-051 F VTF-052 F	1 2	2.3MHz BPF 2.8MHz BPF
CEA4R7M25	C 1, 10, 61, 62			
CKDYF103Z50	C 2, 3, 8, 11, 13- 18, 20, 21, 26, 29- 34, 36, 37, 44, 48, 63, 68- 71,528,529			
CCDCH240J50 CCDCH820J50 CKDYB102K50	C 4, 6 C 5 C 7, 19, 35, 65,504,520			
CEA470M16	C 9, 47, <b>49</b> ,526,527			
CEA101M16	C 12, 28, 43, 46			
CEA101M6R3 CCDSL431J50	C 22, 38, 45 C 23			
CQMA152J50 CKDYB681K50 CEA010M50	C 24, 40 C 25, 41 C 27, 42, 53, 56, 72			
CCDSL331J50 CEA471M16 CQMA472J50	C 39,502,518 C 50 C 51, 54			
CQMA272J50 CKDYF333Z50 CQMA683J50 CQMA273J50 CKDYB331K50	C 52, 55 C 57 C 58, 60,511 C 59 C 64			





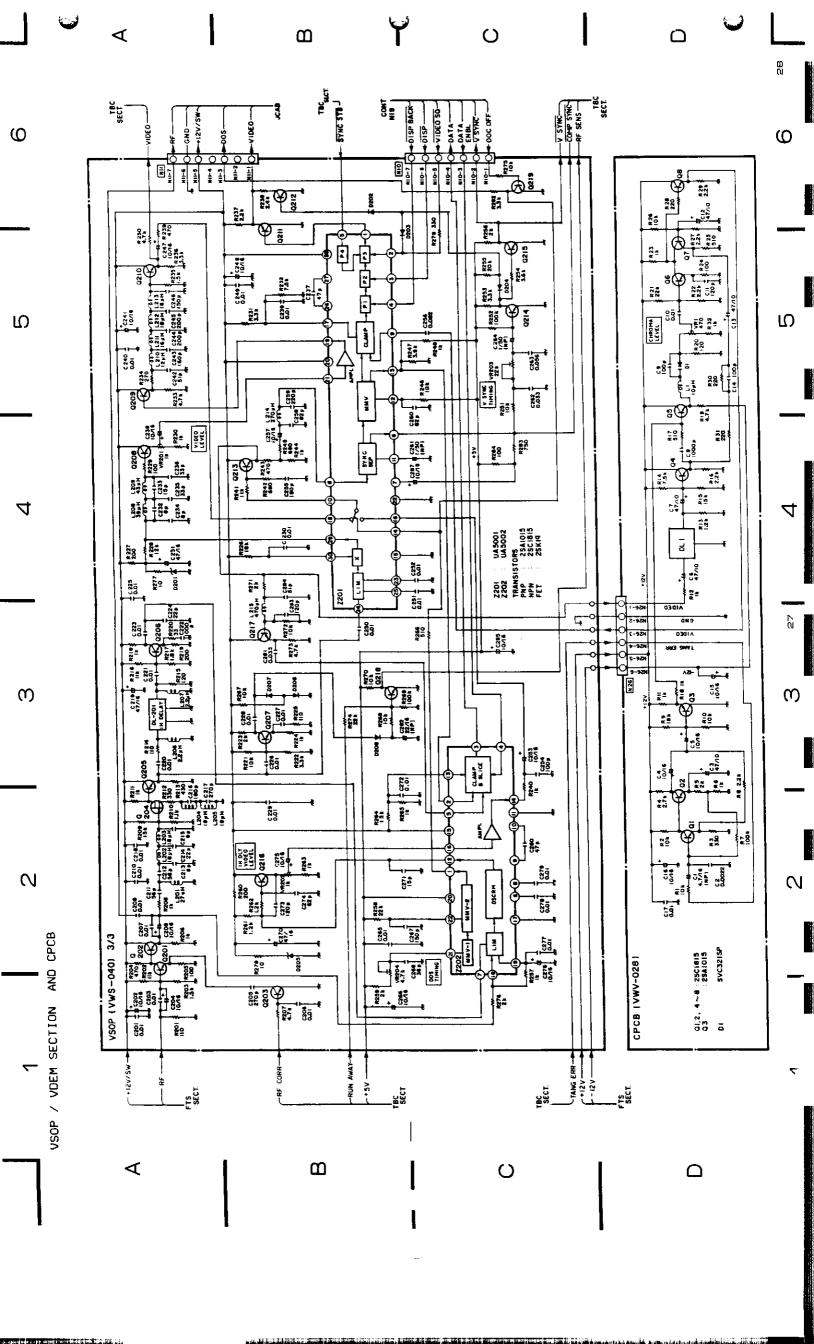


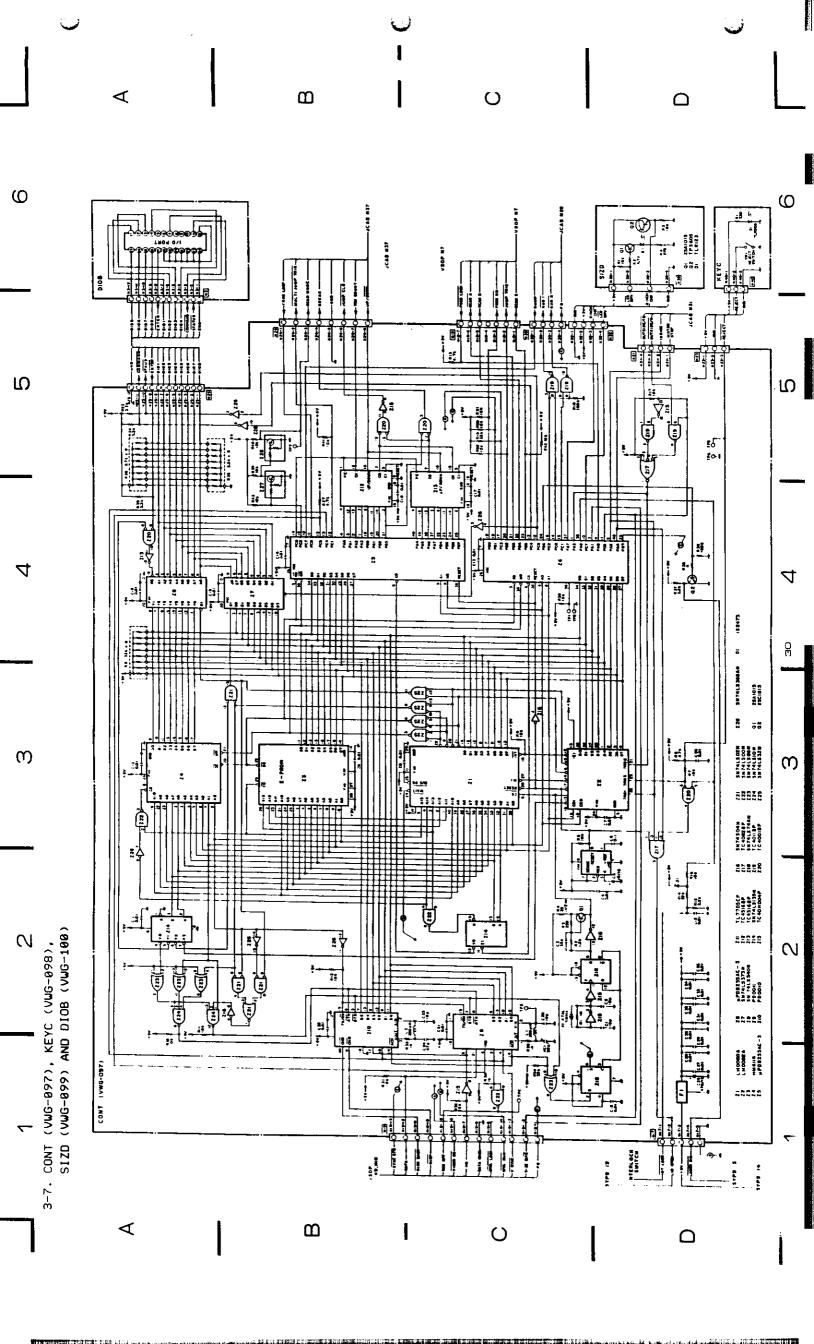


Part No.	Ref No., Descriptions	Part No.	Ref No., Descriptions
UPC4558C (NJM4558D)	Z 1, 4	CKDYF223Z50	C 1, 8, 16, 27,406,407,412
UPC456 <b>8C</b>	Z 2		
(UPC4559C)	7 2 402	CEAR47M50NP CQMA153J50	C 2, 5, 12 C 3
LM393P (UPC393C)	Z 3,402	CQMA103J50	C 4,418
UM4004	Z 5	CKDYF103Z50	C 6, 7, 30, 31, 34, 35,201
UA5001	Z 201		203,206,207,209,210,218,220
			221,223,225-230,239,240,249
UA5002	Z 202		252,265,269,272,277-279,411
TC4024BP (MB84024BM)	Z 401	CEA010M50NP	C 9, 15, 20,261,264,428,431,
UM5003	Z 403	02/10101/3014	464
H074LS107P	Z 404	CKDYB102K50	C 10,222,453,460
(SN74LS107AN)			
UM3001	Z 405	CEA100M16NP	C 11,421,459
UM3002	Z 406	CQMA392J50	C 18
(UM3002A)	<del>-</del>	CEA010M50	C 19, 21
		CQMA472J50	C 22,401,430,435
2SC1815-0/Y/GR		COMADOD ISA	r 22
	201,202,205-210,212-219,401- 403,405,409,412,416,420,42 <b>4</b> -	CQMA223J50 CEA4R7M16NP	C 23 C 24,437,451
	433,485,487,412,418,428,424-	CQMA333J50	C 25,262,281
(2SC1740-Q/R)R			5 45,535.5=5
2SK30A-Y/GR	Q 3, 17,410,411,413-415,417-	CQMA104J50	C 26,423
	419	CEA100M16	C 28, 29, 32, 33,202,204,208,
2SA1015-0/Y/GR	Q 4,203,211,404,406,434		238,241,247,248,253,257,266, 275,276,285,287,463
2SC1815-Y/GR	Q 9,435		213,216,203,201,403
25C1813-176K 2SK30A-Y	Q 11	CCDSL271J50	C 205,217
2SC495-0/Y	Q 12,407	CCDCH560J50	C 211,212
		CCDCH080D50	C 213,215,232,234
2SA505-0/Y	Q 13,408	CCDCH220J50	C 214
2SK192A-Y (2SK19TM-Y)	Q 204	CCDSL181J50	C 216,255
(23K171H-17		000000000000000000000000000000000000000	
DA90-R	0 1, 2,203	CEA470M16	C 219,231,270
IS2473	D 3, 5-17,202,204,206-208,	CCDSL220J50	C 224
	403-415,417,418,421	CCDCH150J50	C 233 C 235,236
200 1502	D 4	CCDCH330J50 CCDUJ470J50	C 237
RD9.1EB3 RD15EB3	D 4 D 18		
D10EB2	D 201,205	CCDSL510J50	C 242,284
D6.8EB3	D 401,402	CCDSL161J50	C 243 C 244,245
EQA01-07R2)		CCDSL201J50 CCDSL151J50	C 244,243 C 246,267
RD1/4PM000J	R 1- 30, 32- 74, 77, 80- 82,	CCDSL101J50	C 254,403,404,450
.01, 4, 1,0000	R 1- 30, 32- 74, 77, 80- 82, 84- 90, 92, 94-101,104-107,		
	109,110,112-124,201-248,250-	CQMA823J50	C 256
	279,282-284,401-412,414-425,		0.050.040.447
	427-479,483-492,509,518,523-	CCDSL820J50	C 258,260,417
	525,527-534,536-544,550-569, 572,573,575-581	CCDSL221J50 CQMA563J50	C 259,426 C 263
	3:2,3:3,3:3 301	CCDCH360J50	C 268
RD1/2VS000J	R 31, 93,102,103,426,480,526	CCDSL150J50	C 271
NA ZADDADAGÉ	D 512-514	CCDSL121J50	C 273,283,405
N1/4PR0000F	R 513-516	CCDSL620J50	C 274
CP-029	VR 1, 4 47k	CCDCH470J50	C 280
CP-026	VR 2,204,401 4.7k	CEA220M16NP	C 282
CP-024	VR 3,201,202 1K	CQMA183J50	C 402,420
/CP-027	VR 6, 7 19K	COMADZO IEO	C 400
/CP-028 /CP-022	VP203,404,406 22K VR405 220	CQMA272J50	C 408
	VK403 220		

Part No.	Ref No.	, Descriptions
CEA470M10	C 409,413,	442,445,458
CQMA122J50	C 410	
CQSH102J50	C 414	
CQMA332J50	C 415	
CQSH681J50	C 416,419	
CEA220M6R3NP	C 422	
CQMA683J5 <b>0</b>	C 424	
CQMA222J50	C 425,455	
CEA3R3M16NP	C 427	
CQMA102J50	C 429	
CQMA273J50	C 432	4.40
CQMA473J50	C 433,436,	
CCDSL470J50 CEA470M6R3NP	C 434,454, C 439	470
VCE-007	C 461	0.1uF
CEA220M10 CCDSL331J50	C 465,467,	4/1
VCM-884	VC401	
(VCM-005)		
VTL-028	L 201	27uH
(VTL-065)		
VTL-026	L 202-205,	212.213 18uH
(VTL-064)	1 20/ 207	
VTL-015 (VTL-060)	L 206,207	2.2uH
VTL-030	L 208	39uH
(VTL-066)	C 200	3741.
VTL-051	L 209	43uH
(VTL-067)		
VTL-024	L 210	12uH
(VTL-062)		
VTL-056 (VTL-063)	L 211	16uH
VTL-040	L 214	270uH
(VTL-073) VTL-043	L 215	479uH
(VTL-969)	L 491	1
VTL-076	F 491	1mH
VTF-019	VL401	12uH
(VTF-022)		
	v 404	04 511
VSS-005	X 401	31.5kHz
(VSS-010)		
D33A	TH 1	
D22A	TH401	
VTF-012	DL201 1H	กาง
(VTF-030)	OLZUI IN	J.,
(VTF-013)		

Part No.		Ref	No.	, Descriptions
2SC1815-0/Y/GR	Q	1,	2,	4- 8
(2SC2021-Q/R/S) (2SC1740-Q/R/S) 2SA1015-0/Y/GR		3		
SVC321SP-B1/D1	D	1		
RD1/4PModoJ	R	1-	32	
VCP-023	VR	1		470
CEA4R7M16NP CKDYB222K50 CEA470M10	C C C	1 2 3-	7.	12, 13, 15, 16
CEA100M16	С	4,	5.	15, 16
CEA470M10 CKDYB102K50	C	6 8		
CCDSL101J50 CKDYF103Z50 CCDSL121J50	CCC	9, 10, 11		
VTL-023 (VTL-061)	L	1		10uH
VTF-032	0	.5uS	Dly	



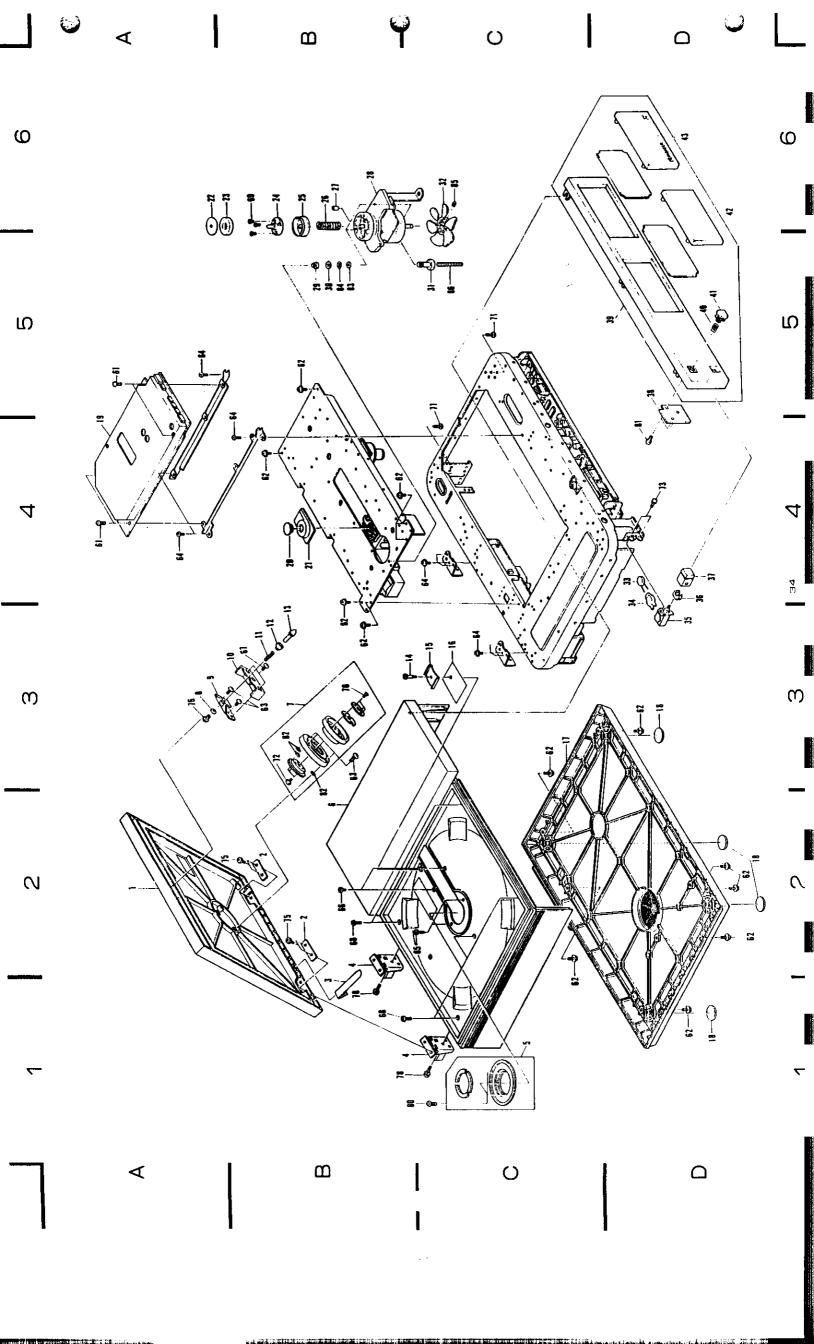


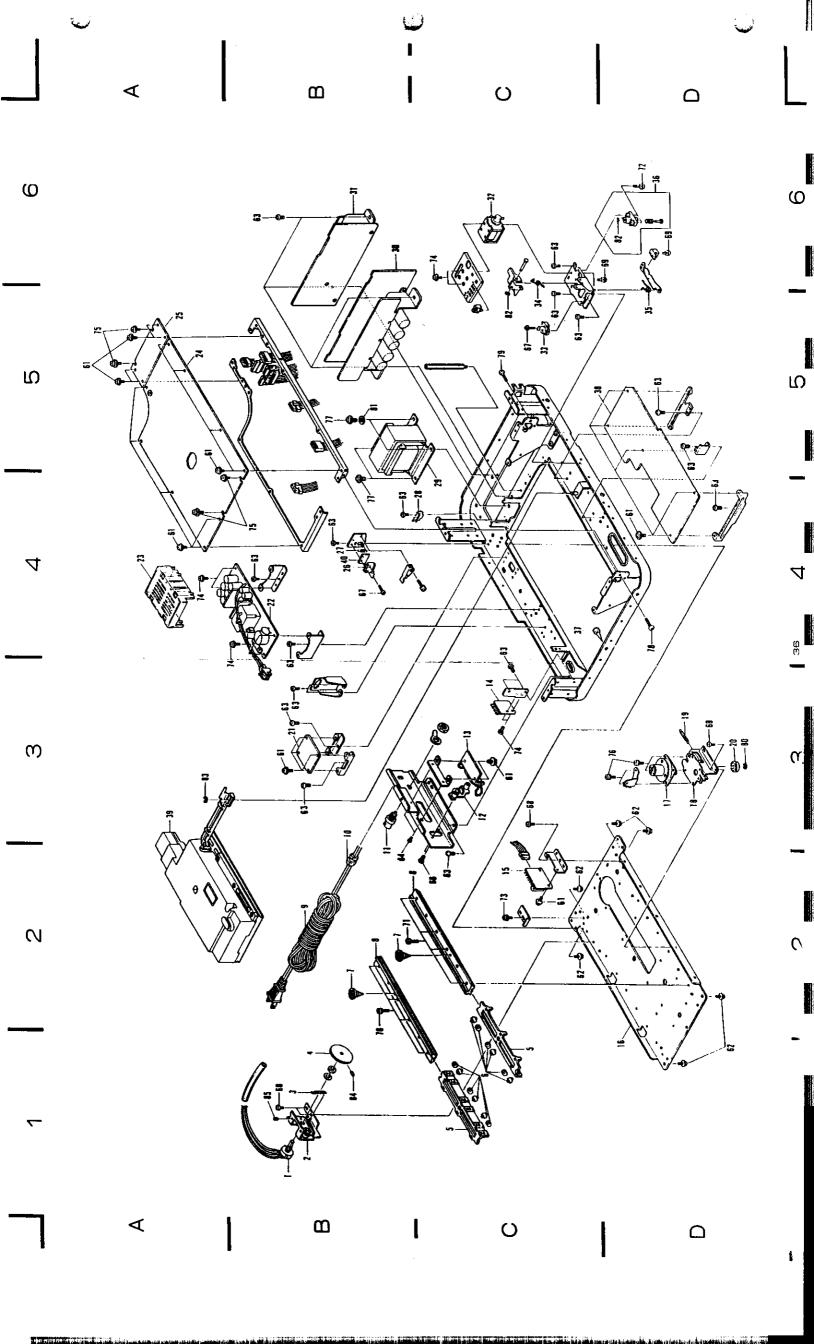
Part No.		Ref	No.,	Descripti	ons	Part No.	Ref No.,	Descriptions
LH-0080A (LH-0080)	Z	1				VTL-155 VTL-039	L 1 L 2	200uH 220uH
LH-0082A (LH-0082)	Z	2				VTH-005	F 1	
(MPD2764D) HM6116P-4 UPD8255AC-5	Z Z	4 5,	6			VSS-023	X 1	5MHz
SN74LS373N	Ž	7,	Ū			VKH-018 VKH-019	40P socket 28P socket	
, SN74LS540N PD0011	Z Z	8 9						
PD0010	Z	10						
TL7705CP TC4516BP	Z Z	11 12,	13					
SN74LS139N	z	14				KEYC(VW	3-098)	
(HD74LS139P) TC40H004P	Z	15						
SN74S04N	Ž	16						
(HD74S04P)	7	47				Part No.	Ref No.,	Descriptions
TC4082BP SN74LS74AN	Z	17 18				<u> </u>		·
(HD74LS74AP)	_					TLR205	D 1	
TC4011BP	Z	19				RD1/4PM331J	R 1	
TC4001BP SN74LS02N	Z Z	20 21				VSC-004	SU 1	
(HD74LS02P) SN74LS00N	Z	22				<b>V3C 004</b>	<b>5</b>	
(HD74LS00P) SN74LS86N_	z	23						
(HD74LS86P) SN74LS10N	z	24				SIZD(VWG	6-099)	
(HD74LS10P)					v.			
SN74LS32N SN74LS368AN (HD74LS368AP)	Z Z	25 26				Part No.	Ref No.,	Descriptions
DTC124N	Z	27,	28				•	
2SA1015-0/Y/GR	Q	1 2				2SA1015-0/Y/GR TPS605	Q 1 Q 2	
2SC1815-0/Y/GR 1S2473	ם D	1				TLR123	D 1	
RD1/4PM000J	R	1-	з,	5- 8. 10-	24, 27-	RD1/4PM000J	R 1- 4	
		43	·			VNL-179	Sensor cove	er ·
RD1/2VS220J	R	4 9		33k				
VCN-091 VCN-097	R R			3.3k				
VCN-035	R	26		2.7k				
CCDSL100D50	С	1,	2, 2	0, 23		DIOB(VWG	5-100)	
CCDSL330J50	С	3			<del>-</del> -			
CKDYF103Z50	С	4,	7- 1	9, 21, 22,	26- 35	Part No.	Ref No.,	Descriptions
CEA100M16	C	5					· · · · · · · · · · · · · · · · · · ·	<del></del>
CQMA104J50 CCDSL470J50	C	6 24				VKN-133	24P connec	tor
CEA471M10	C	25				AVU-133	Zar Connec	
VCM-003	VC	1		50pF		Note: KEYC,		DIOB are not vice parts.

## 4. EXPLODED VIEWS AND PARTS LISTS

### TOP VIEW PARTS LIST

No. Parts No	. Description	No.	Parts	s No.	
1. VXX-149	Hood assembly	61.	ACZ	30P060	FMC
2. VNE-244				30P080	
3. VNE-286	Hood lever			30P080	
4. VXA-053	Hood hinge	64.	BCZ	30P050	FMC
5. VXX-096	Turntable assembly	65.	BMZ	26P050	FMC
6. —	Top housing	66.	BMZ	30P040	FZK
7. VXX-041	Disc clamper			30P060	
8. VEB-038				30P080	
9. VNE-305				26P969	
10. VNL-141		70.	CMZ	26P <b>080</b>	FZK
11. VBH-059	Spring	71.	IPZ	30P080	FMC
12. VNL-022				26P060	
	Interlock pin	73.	PMA	30P060	FMC
	Shipping screw	74.	PMA	30P080	FMC
15. VNE-276		75.	PMA	40P120	FZK
16. VRW-091	Caution tag	76.	PMB	26P060	FMC
17. VXX-086				30P080	
18. VED-008				30P100	
19. VWG-097				20P030	
20. VHA-012	Lens cap			26H080	
21. VNH-027				30P060	
22. VEC-153				30F080	N100
23. VMX-001			-	50 FMC	
	Yoke assembly			50 FBT	
25. VNV-018	Centering hab	85.	ZMD	30H040	FBI
26. VBH-034		86.	ZMD	30H250	FBT
27. VDM-007	Spacer				
28. VXM-029	Spindle motor				
	Holding bolt				
30. VLA-061	Nut				
31. VLL-222	Adjustment bolt				
32. VNM-001	Fin				
33. VCG-011					
	Capacitor cover				
35. VSA-006	Power switch				
36. VEC-151	Flexible ring				
37. VAC-225	Power switch button				
38. —	KEYC				
	Front panel assembly				
40. VBH-051					
41. VAC-224	Reject key top				
42. VNK-184					
43. VKN-198					





### BOTTOM VIEW PARTS LIST

No. Parts No.	. Description	No. Parts No.
1. VCS-005 2. VXA-059 3. VBH-042 4. VNL-045 5. VNL-031	Spring	61. ACZ 30P060 FMC 62. AMZ 30P080 FMC 63. BCZ 30P050 FMC 64. BCZ 30P050 FZK 65. BMZ 30P060 FZK
6. VLL-121 7. VXX-006 8. VNG-002 9. VDG-016 10. VEC-027	Rail Power cord	66. BPZ 30P080 FZK 67. IMZ 20P100 FMC 68. PMA 30P050 FMC 69. PMA 30P060 FMC 70. PMA 30P120 FMC
11. VKN-007 12. VKB-003 13. —— 14. ——		71. PMA 30P120 FRD 72. PMA 30P120 FZK 73. PMA 40P060 FMC 74. PMB 30P060 FMC 75. PMB 30P080 FGN
16. —— 17. VXM-030 18. VXA-054 19. VBH-041 20. VNL-028	Motor holder Spring	76. PMB 30P080 FMC 77. PMB 40P080 FMC 78. VCZ 30P080 FMC 79. VCZ 30P100 FMC 80. WA 17D035 D025
21. — 22. VWR-045 23. VNH-023 24. VWS-040 25. VWV-028		81. WC 50 FMC 82. YE 20 FUC 83. YE 30 FUC 84. ZMD 30H060 FBT 85. ZMK 40H080 FBT
	Spring 4P terminal Power transformer	
31. VWR-038 32. VXP-005 33. VSF-006 34. VBH-045 35. VBH-043	DRVB Plunger Switch Spring Spring	
36. VXX-039 37. VEB-031 38. VWV-043 39. VGX-043 40. VEC-099		

### SLIDER PARTS LIST

No. Parts No. Description No. Pa			Parts No.	arts No.	
1. —	Dust cover	41.	BMZ 30P060	FMC	
	H.V. cord assembly		CMZ 30P080		
3. VEB-032			PMA 26P100		
	Tube holder		PMA 30P060		
	Tube cushion		PMA 30P080	. –	
6. VGN-004 (VGN-005	<del>-</del>	_	PMA 30P100 PMB 30P060		
7. VXX-021			PMB 30P080		
	Insulator pipe		PMB 30P100		
9. VCN-014	Resistor (47kohms/2W)		PMZ 20P040		
	Radiation shield Rack(G) Grating holder Grating assembly DG lens assembly	52. 53. 54.	SMK 30H080 SMK 30H120 VCZ 30P060 WA 26N050 YE 30 FUC	FBT FMC	
15. — 16. VNE-148 17. VGX-016 18. VGX-024 19. VGX-015	• •	56.	ZMR 30H080	FBT	
20. —— 21. VEC-051 22. VGX-020 23. VLP-003 24. VWV-042	Slider base Mask plate Photo-detector assembly Photo-detector spacer RFAM				
	Objective assembly Focus motor cover Lens cap Rack(N)				

