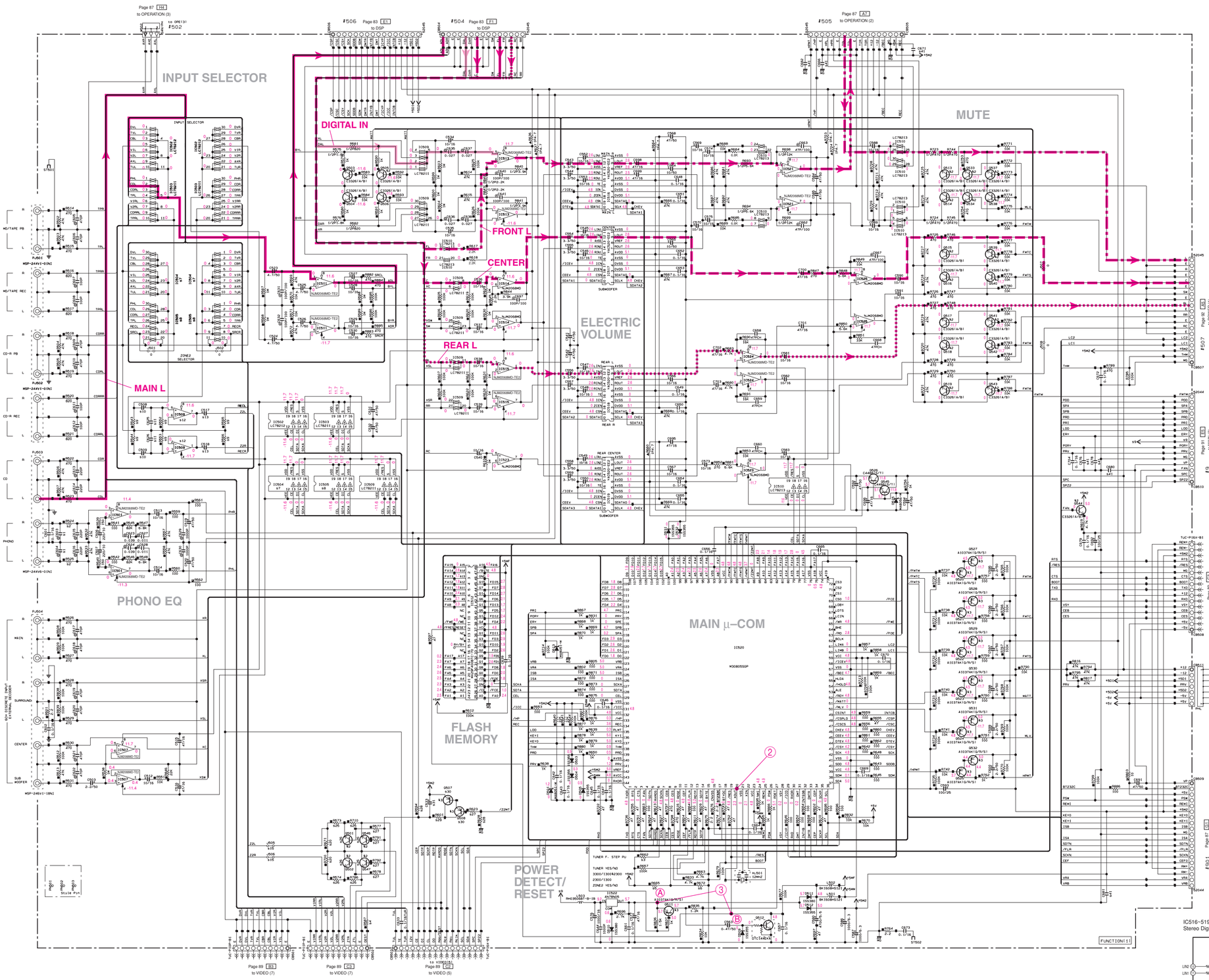
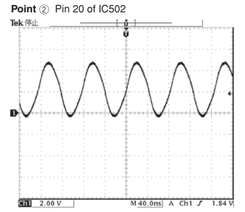
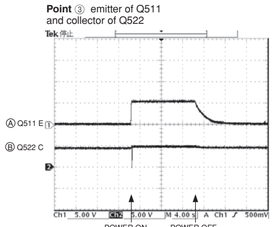
■ SCHEMATIC DIAGRAM (FUNCTION) RX-V1300/RX-V1300RDS/HTR-5590/DSP-AX1300



Point ② Pin 20 of IC502



Point ③ emitter of Q511 and collector of Q522



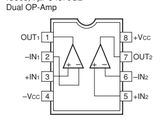
POWER ON (Connect the power cord)

POWER OFF (Disconnect the power cord)

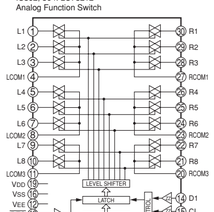
No.	Circuit No.	DSP-AX1300	RX-V1300 HTR-5590	RX-V1300 HTR-5590	RX-V1300RDS	
		J	U-C	A-T-K	B-G	Comment
1	C603-604	x	x	x	22P UA65222	SEW①
2	R524-525	x	x	x	22P UA65222	Immunity
3	R662	x	x	x	2.2K RD3562	
4	R687	x	x	x	2.2K RD3562	
5	R665	x	100K RD3610	x	100K RD3610	TUNER Freq. Step Switch
6	R672	x	100K RD3610	x	100K RD3610	25kHz Yes
7	IC504	4.7K RD3547	4.7K RD3547	x	4.7K RD3547	50kHz No
8	IC505	x	LC78212 VP09540	x	LC78212 VP09540	
9	9543-544-552-553-565-566	x	LC78213 VP09640	x	LC78213 VP09640	
10	C506-509	x	1K RD3610	x	1K RD3610	
11	C625-626	x	2.2/50 UR66522	x	2.2/50 UR66522	
12	IC508	x	100P US56510	x	100P US56510	
13	C517-518	x	UPC457D02 KF29140	x	UPC457D02 KF29140	
14		x	10/16 UA63710	x	10/16 UA63710	
15	J605-506	x	0 RD5000	x	0 RD5000	Zone 2 Selector & Mute
20	R671-700	x	47K RD3547	x	47K RD3547	
25	R573-574 710-796	x	470 RD3547	x	470 RD3547	
26	D511-552 545-547	x	C3326(A/B) VD30370	x	C3326(A/B) VD30370	
27	R677-578-623 791-792	x	10K RD3570	x	10K RD3570	
28	R534-528	x	150K RD3610	x	150K RD3610	
29	R601	x	100 RD3550	x	100 RD3550	
30	Q507-508	x	A1037AK(G/R/S) VV05650	x	A1037AK(G/R/S) VV05650	
31	C533	x	2.2/50 UR66522	x	2.2/50 UR66522	
41	C666-671-676-678-680-681-682	x	0.1/16 US13510	x	0.1/16 US13510	FCC

x: NOT USED
O: USED / APPLICABLE

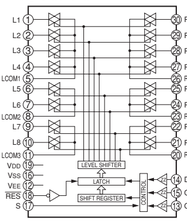
IC501, 507, 511, 513–515, 521, 523–525: NJM2068MD
IC508, : μPC4570G2
Dual OP-Amp



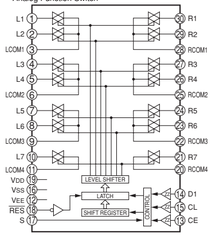
IC502, 504: LC78212
Analog Function Switch



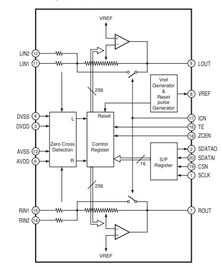
IC503, 509: LC78211
Analog Function Switch



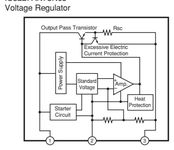
IC505, 510: LC78213
Analog Function Switch



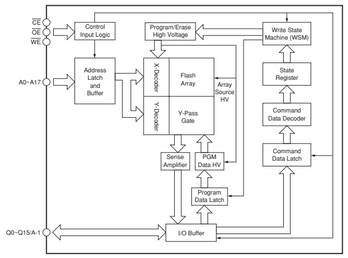
IC516–519, 526: YAC520-EE2
Stereo Digital Volume Controller



IC522: AN78N05
Voltage Regulator



IC512: MX29F400BTC-70
4Mbit CMOS Flash Memory



NOTICE (model)
(J)····· JAPAN
(U)····· U.S.A
(C)····· CANADA
(R)····· GENERAL
(T)····· CHINA
(K)····· KOREA
(A)····· AUSTRALIA
(B)····· BRITISH
(G)····· EUROPE
(L)····· SINGAPORE

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
k1		
k2	Q501-506-513-519-533-534-537-544-546-547	2SC3326(A/B) 2SC3326(B)
k3	Q507-508-511-525-526-527-532	2SA1037AK(G/R/S) 2SA1235A(E/F)
k4		
k5		

CAPACITOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
	CERAMIC TUBULAR CAPACITOR
	POLYESTER FILM CAPACITOR
	POLYSTYRENE FILM CAPACITOR
	MICA CAPACITOR
	POLYPROPYLENE FILM CAPACITOR
	SEMICONDUCTIVE CERAMIC CAPACITOR
	POLYPHENYLENE SULFIDE FILM CAPACITOR

RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
	CARBON FILM RESISTOR (P=10)
	METAL OXIDE FILM RESISTOR
	METAL FILM RESISTOR
	METAL PLATE RESISTOR
	FIRE PROOF CARBON FILM RESISTOR
	CEMENT MOLDED RESISTOR
	SEMI VARIABLE RESISTOR
	CHIP RESISTOR

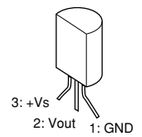
★ All voltages are measured with a 10MΩ/V DC electric volt meter.
★ Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.
★ Schematic diagram is subject to change without notice.

● 電圧は、内部抵抗10MΩの電圧計で測定したものです。
● ⚠印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
● 本回路図は標準国籍図です。改良のため予告なく変更することがございます。

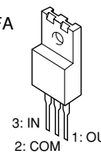
■ PIN CONNECTION DIAGRAM

• ICs

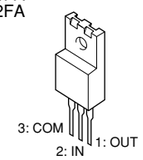
LM61CIZ



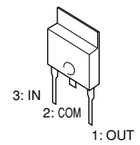
AN78N05
NJM7805FA
NJM78M12FA



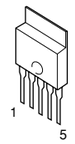
NJM79M05FA
NJM79M12FA



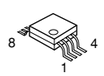
µPC29M33T-E1



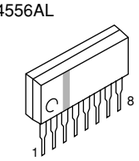
PQ025EZ5MZP



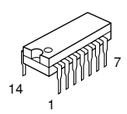
NJM2068MD
NJM2904M
TK15420M
µPC4570G2



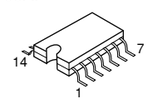
NJM4556AL



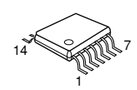
TC4066BP



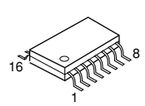
TC74HCT00AF
TC74HCU04AF
TC74HCT08AF



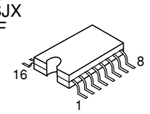
NJM2581M
TC4066BF-T1



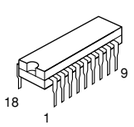
ADM202JRN-REEL7
LA7108M
M62320FP



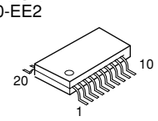
MM74HC4051N
MM74HC4051SJX
MM74HC4053N
MM74HC4053SJX
TC74HC4052AF



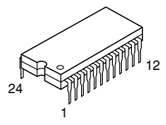
BU2092



CS4392-KZR
CS5360-KSR
YAC520-EE2



LC72722



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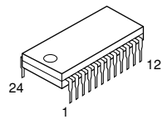

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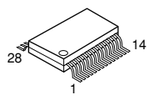
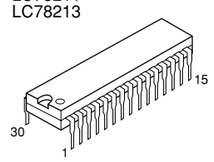


LC78211
LC78213



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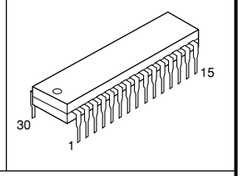
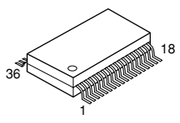
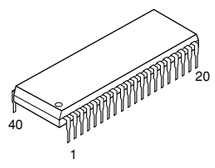


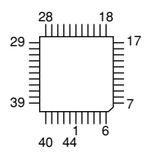
LA7109



MSM514260E-60JS



CS493292-CLR



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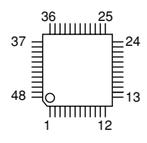
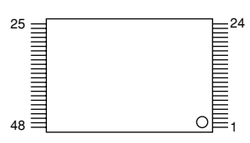


MX29F400BTC-70



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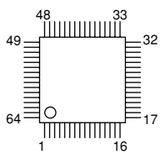

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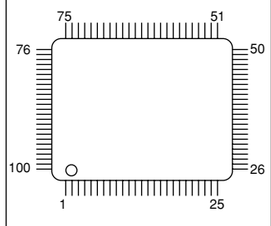

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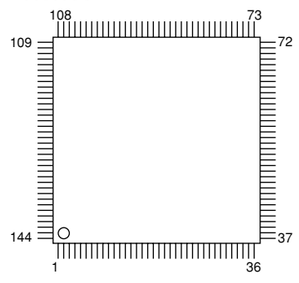
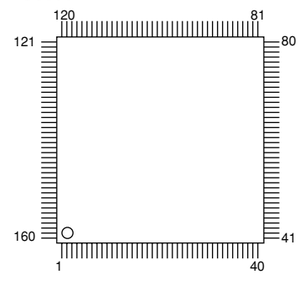
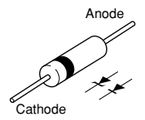


YSS938-F

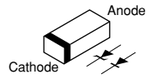


• Diodes

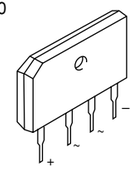
1N4002S
1SS133
1SS270A
1T2
MTZJ4.7C
MTZJ5.1A
MTZJ6.2C
MTZJ9.1A
MTZJ10.0A
MTZJ10.0B
MTZJ12.0C
MTZJ20.0C
MTZJ24.0C
MTZJ33.0B



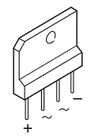
1SS355
1SS380
MA8051-M
MA8056-M
MA8068-H
MA8082-H
RB501V-40
UDZS5.6BTE-17



D2SBA20

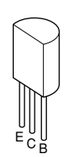


D15XB20

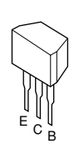


• Transistors

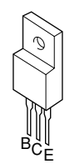
2SA893A
2SA970
2SA1015
2SB949
2SC535
2SC1815
2SC1890A
2SC2240
2SC2878



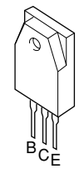
2SC1740S
2SD1915F



2SA1837
2SB941
2SB1565
2SC4793
2SD2396

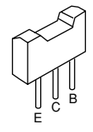


2SA1492
2SC3856

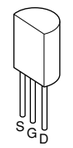


2SA1037K
2SC2412K
2SC3326
DTA144EKA
DTC144EKA

2SA1708
2SC4488



2SK246



■ SCHEMATIC DIAGRAM (DSP)

RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
☑	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
⚠	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
◪	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
◈	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
Ⓚ	CERAMIC TUBULAR CAPACITOR
Ⓜ	POLYESTER FILM CAPACITOR
Ⓒ	POLYSTYRENE FILM CAPACITOR
Ⓜ	MICA CAPACITOR
Ⓟ	POLYPROPYLENE FILM CAPACITOR
◉	SEMICONDUCTIVE CERAMIC CAPACITOR
Ⓢ	POLYPHENYLENE SULFIDE FILM CAPACITOR

RX-V2300/DSP-AX2300: Page 86 I14 / RX-V1300/RX-V1300RDS/HTR-5590/DSP-AX1300: Page 87 I14 to OPERATION (3)

RX-V2300/DSP-AX2300: Page 84 C1 / RX-V1300/RX-V1300RDS/HTR-5590/DSP-AX1300: Page 85 C1 to FUNCTION

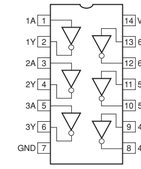
RX-V2300/DSP-AX2300: Page 84 D1 / RX-V1300/RX-V1300RDS/HTR-5590/DSP-AX1300: Page 85 D1 to FUNCTION

NOTICE (model)
(J)..... JAPAN
(U)..... U.S.A
(C)..... CANADA
(R)..... GENERAL
(T)..... CHINA
(K)..... KOREA
(A)..... AUSTRALIA
(B)..... BRITISH
(G)..... EUROPE
(L)..... SINGAPORE

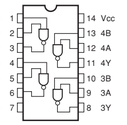
Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
k1	Q508-510-517	2SC3326(A/B) 2SC3326(B)
k2	IC513	NJM2904M NJM2904S
k3	IC515	MSM514260C-60JS MSM514260E-60JS S1M4216S/S5S00B GLT44016-40J4 1S4IC16257-35K 1S4IC16257-60K
k4	IC512	TC74HCT08AF MH74HCT08SJX
k5	U501-504	GP1FA551RZ TGRK179
k6	U505-506	GP1FA551TZ TGTK179

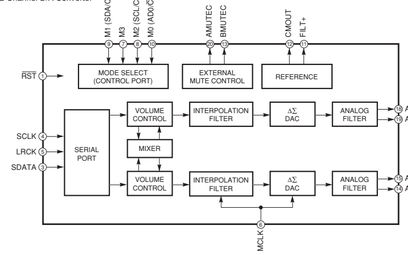
IC501, 502: TC74HCU04AF
Hex Inverters



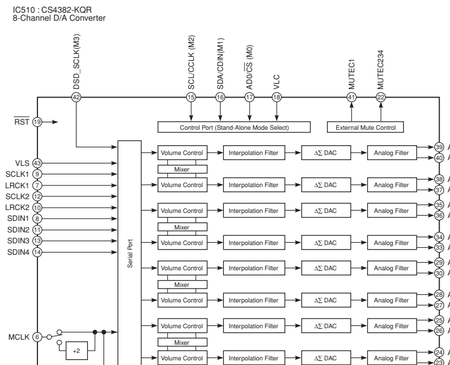
IC503: TC74HCT00AF
Quad 2-Input Nand Gate



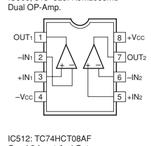
IC508: CS4392-KZR
2-Channel D/A Converter



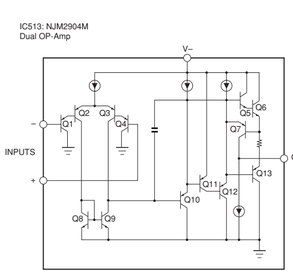
IC510 : CS4382-KQR
8-Channel D/A Converter



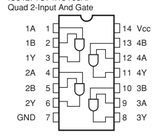
IC509, 518~523: NJM2068MD
Dual OP-Amp.



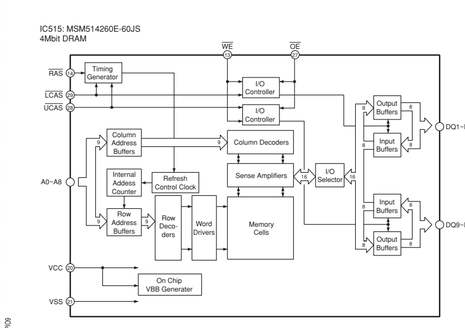
IC513: NJM2904M
Dual OP-Amp



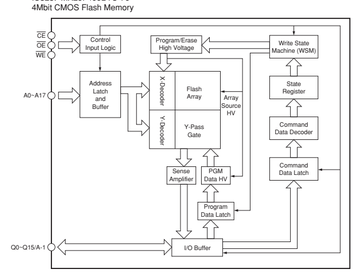
IC512: TC74HCT08AF
Quad 2-Input And Gate



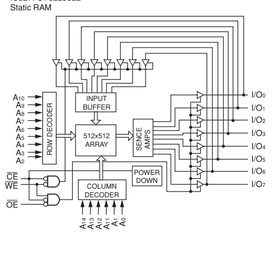
IC515: MSM514260E-60JS
4Mbit DRAM



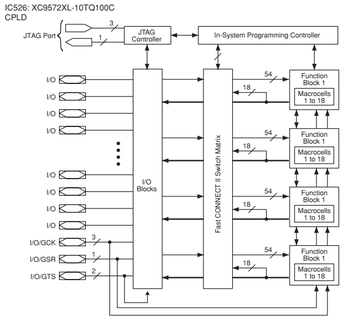
IC528: MX29F400BTC-70
4Mbit CMOS Flash Memory



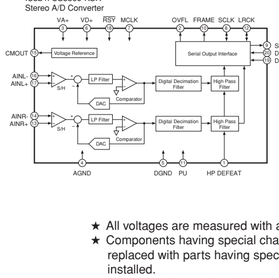
IC527: CY62256LL
Static RAM



IC526: XC9572XL-10TQ100C
CPLD

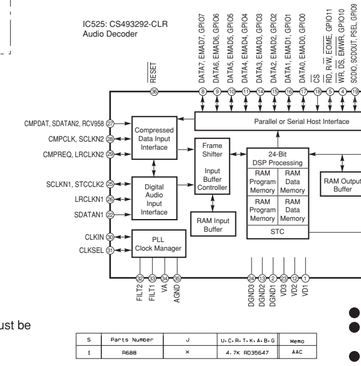


IC524: CS5360-KSR
Stereo A/D Converter

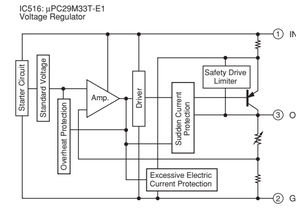


IC517: PQ025EZ5MZP
Regulator

IC525: CS493292-CLR
Audio Decoder



IC516: μPC29M33T-E1
Voltage Regulator



★ All voltages are measured with a 10MΩ/V DC electric volt meter.
★ Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.
★ Schematic diagram is subject to change without notice.

S	Parts Number	J	U-C-R-T-K-A-B-G	Memo
!	R688	K	4.7K RD35E47	A&C

x: NOT USED
O:USED / APPLICABLE

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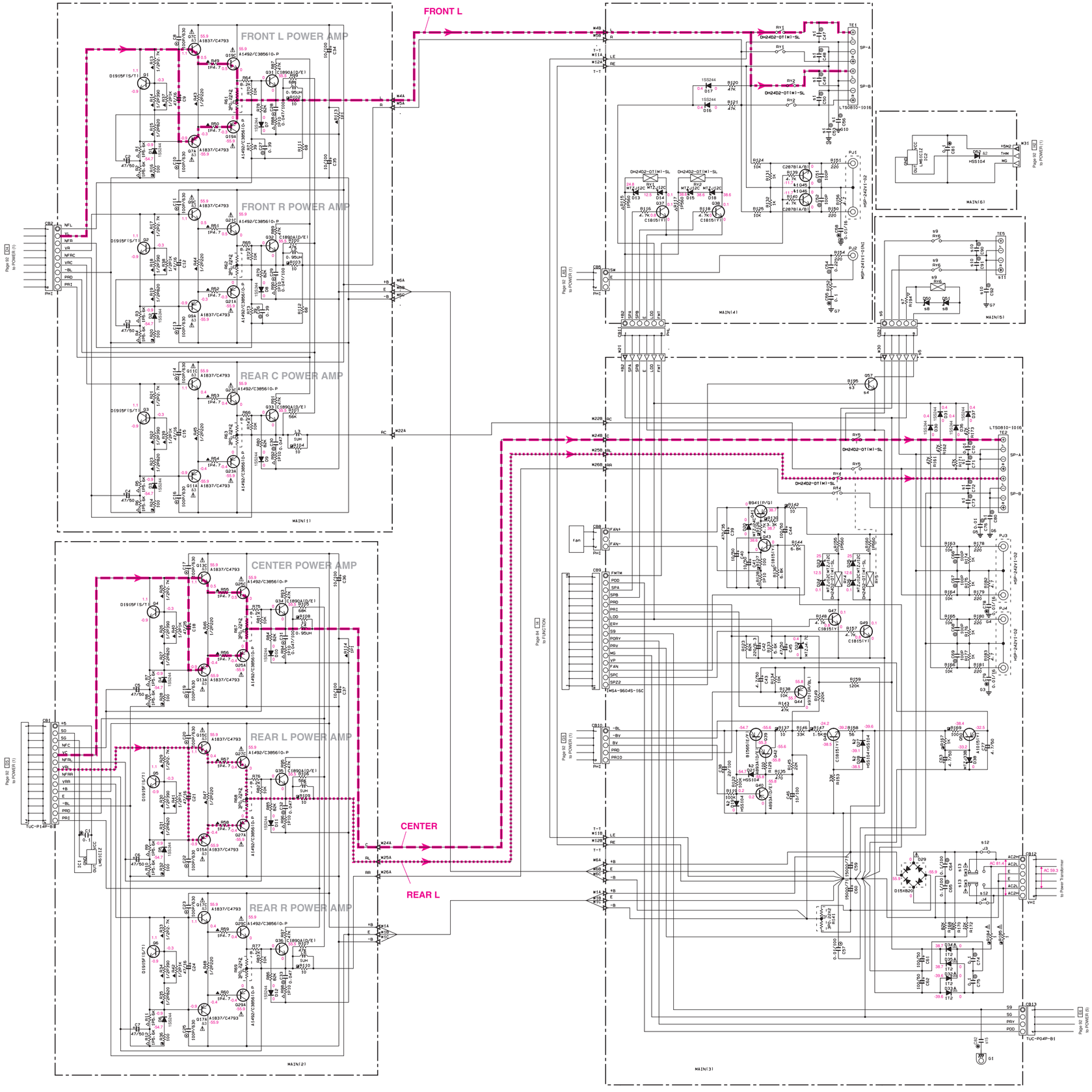
■ SCHEMATIC DIAGRAM (MAIN) RX-V2300/DSP-AX-2300



RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
☑	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
◬	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
◪	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	‖
⊗	TANTALUM CAPACITOR	‖
NO MARK	CERAMIC CAPACITOR	‖
◉	CERAMIC TUBULAR CAPACITOR	‖
◎	POLYESTER FILM CAPACITOR	‖
○	POLYSTYRENE FILM CAPACITOR	‖
Ⓘ	MICA CAPACITOR	‖
Ⓟ	POLYPROPYLENE FILM CAPACITOR	‖
◉	SEMICONDUCTIVE CERAMIC CAPACITOR	‖

NOTICE (mode1)
(J)····· JAPAN
(U)····· U.S.A
(C)····· CANADA
(R)····· GENERAL
(T)····· CHINA
(K)····· KOREA
(A)····· AUSTRALIA
(B)····· BRITISH
(G)····· EUROPE
(L)····· SINGAPORE

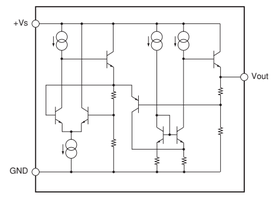
		DSP-AX2300	RX-V2300		
		J	U·C	R·T·K	A
s1	C47·C49·C49·C50 C53·C56·C71 C72·C73·C80	x	x	0.01 UA05410	0.01 UA05410
s3	R195	x	4.7K HF45647	x	4.7K HF45647
s4	Q57	x	C1815(Y) IC1815I	x	C1815(Y) IC1815I
s5	W30	x		x	
s6	CB21	x	LB91805	x	LB91805
s7	R194	x	IP560 VP94090	x	IP560 VP94090
s8	D50·D51	x	MTZJ12C VS44030	x	MTZJ12C VS44030
s9	RY6	x	DH24D2-0T(M)-SL V632650	x	DH24D2-0T(M)-SL V632650
s10	C90·C91·C92	x	x	x	0.01 UA05410
s11	TE5	x	LTS0410-3012 V345880	x	LTS0410-3012 V345880
s12	J3·J4	0	x	x	x
s13	SW3	x	SL138-022-AMCS V410420	SL138-022-AMCS V410420	SL138-022-AMCS V410420
s14	R102, 103	10 HV75410	10 HV75410	47 HV75347	4.7 HV75347
s15	C82	x	x	0.1 VJ59910	0.1 VJ59910

x: NOT USED
O: USED / APPLICABLE

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
&1	Q45.46	2SC2878(A/B) 2SD1915F(S/T)
&2	D19, 21, 27, 28, 52	HSS104 1SS133 1SS176
&3	Q7, 9, 11, 13, 15, 17	A1837/C4793 A1859A/C4833A

IC1, 2: LM61CIZ
Temperature Sensor



★ All voltages are measured with a 10MΩ/V DC electric volt meter.
★ Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.
★ Schematic diagram is subject to change without notice.

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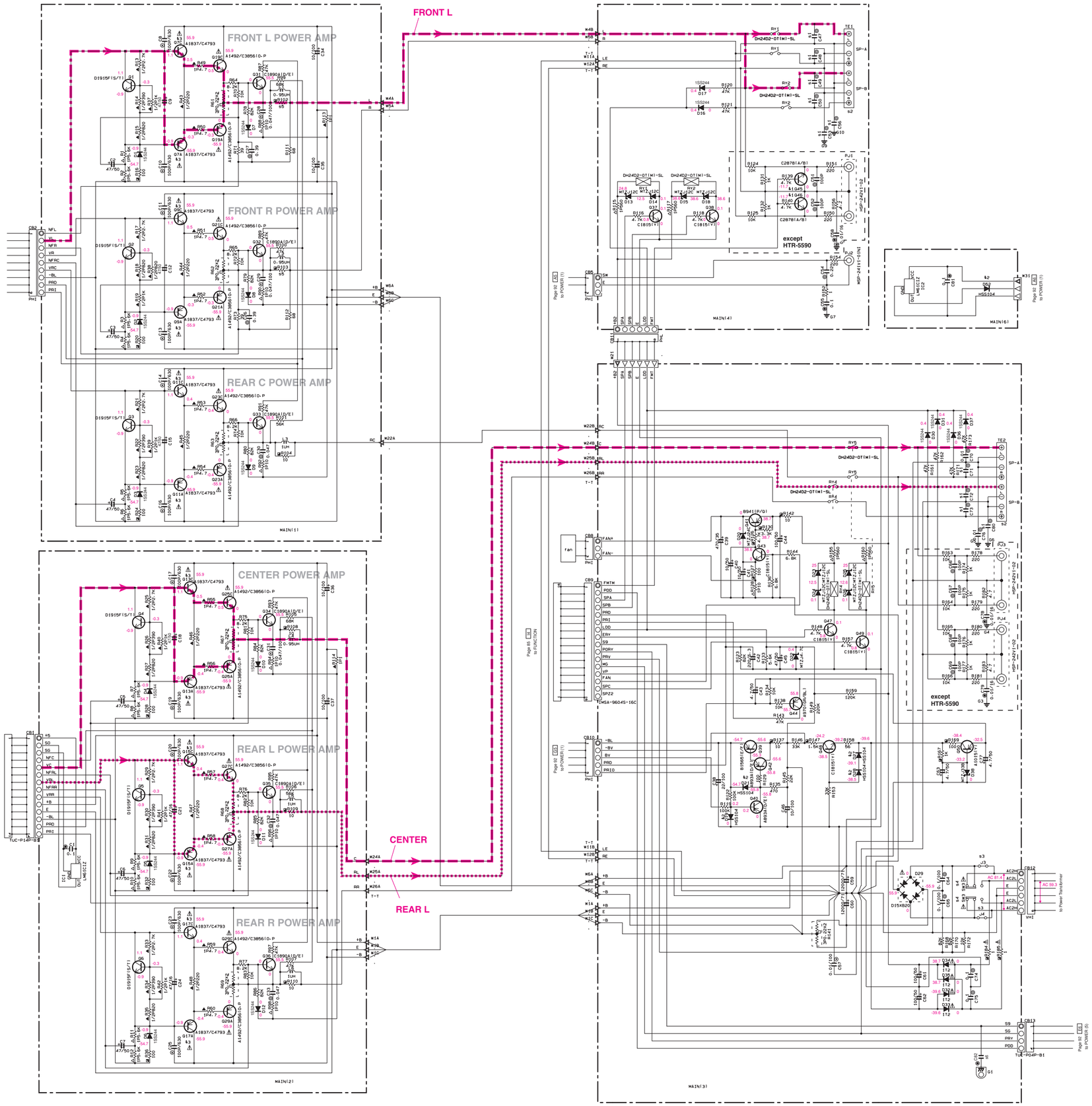
■ SCHEMATIC DIAGRAM (MAIN) RX-V1300/RX-V1300RDS/HTR-5590/DSP-AX1300



RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
☑	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
◪	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	耐圧
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	
◉	CERAMIC TUBULAR CAPACITOR	
◎	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
Ⓘ	MICA CAPACITOR	
ⓟ	POLYPROPYLENE FILM CAPACITOR	
◉	SEMICONDUCTIVE CERAMIC CAPACITOR	

NOTICE (model)
(J)····· JAPAN
(U)····· U.S.A
(C)····· CANADA
(R)····· GENERAL
(T)····· CHINA
(K)····· KOREA
(A)····· AUSTRALIA
(B)····· BRITISH
(G)····· EUROPE
(L)····· SINGAPORE

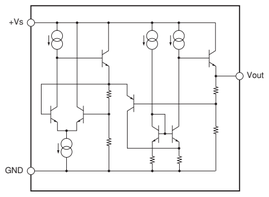
		DSP-AX1300	RX-V1300/HTR-5590		RX-V1300RDS
		J	U・C	R・T・K・A	B・G
s1	C47・C48・C49・C50 C53・C56・C71 C72・C73・C80	x	x	0.01 UA65410	0.01 UA65410
s2	TE1・TE2	LT50810-1016 Y945900	LT50810-1016 Y945900	LT50810-1016 Y945900	LT50810-1015 Y945890
s3	J3・J4	0	x	x	x
s4	SW3	x	SL13B-022-AMCS Y410420	SL13B-022-AMCS Y410420	SL13B-022-AMCS Y410420
s5	R102・103	10 HV75410	10 HV75410	4.7 HV75347	4.7 HV75347
s6	CB2	x	x	0.1 Y.59910	0.1 Y.59910

x: NOT USED
O: USED / APPLICABLE

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
k1	Q45.46	2SC2878(A/B) 2SD1915F(S/T)
k2	D19.21.27.28.52	HSS104 1SS133 1SS176
k3	Q7.9.11.13.15.17	A1837/C4793 A1859A/C4883A

IC1, 2: LM61CIZ
Temperature Sensor



★ All voltages are measured with a 10MΩ/V DC electric volt meter.
★ Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.
★ Schematic diagram is subject to change without notice.

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● ⚠印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
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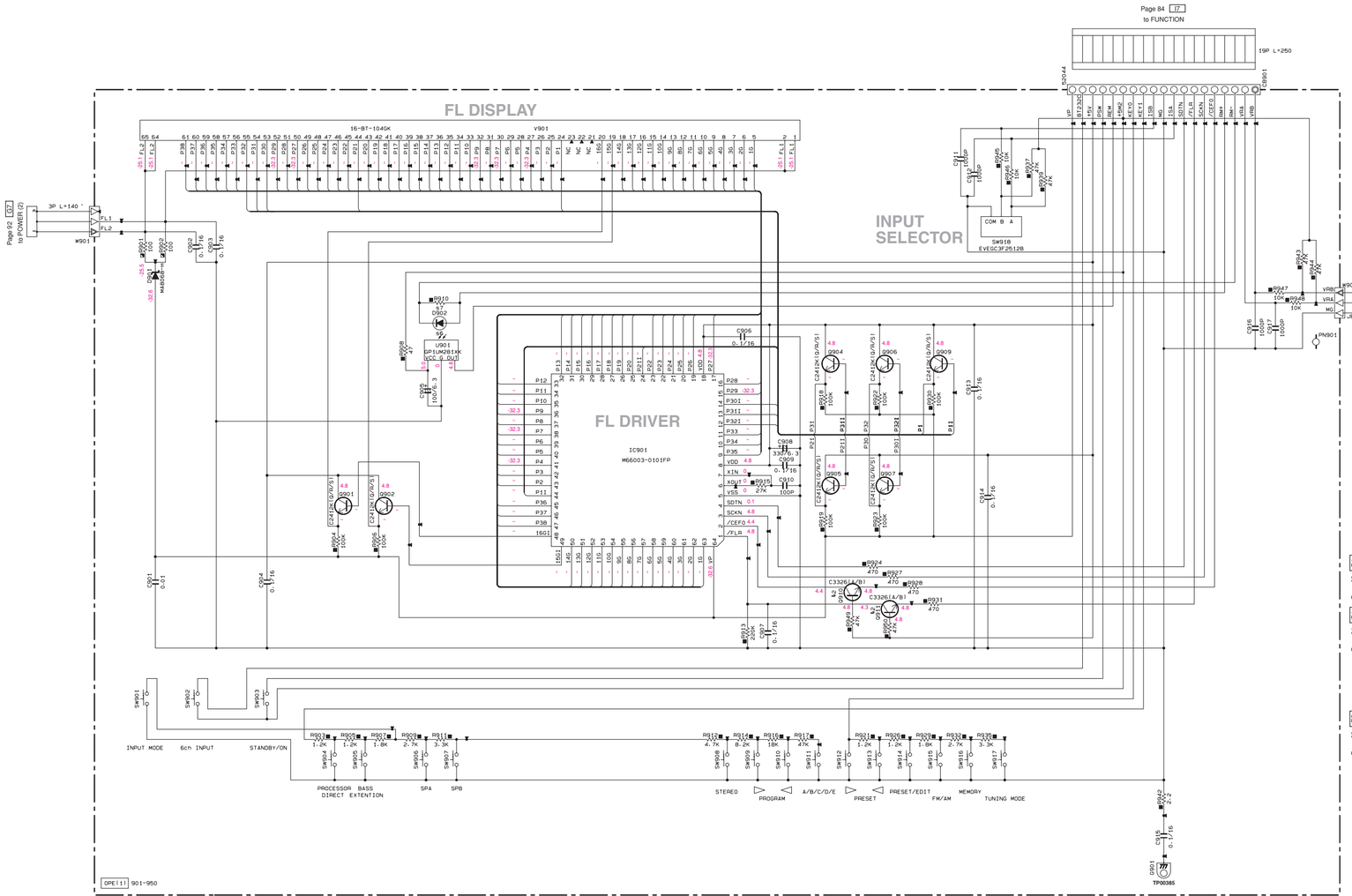
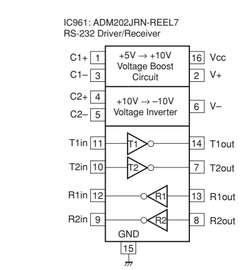
■ SCHEMATIC DIAGRAM (OPERATION) RX-V2300/DSP-AX-2300





RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
☑	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
◪	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
◉	CERAMIC TUBULAR CAPACITOR
◎	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
Ⓘ	MICA CAPACITOR
Ⓟ	POLYPROPYLENE FILM CAPACITOR
Ⓢ	SEMICONDUCTIVE CERAMIC CAPACITOR
Ⓢ	POLYPHENYLENE SULFIDE FILM CAPACITOR

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
k1	Q982	2SA1037AK(Q/R/S) 2SA1235A(E/F)
k2	Q803.804.910.911	2SC3326(A/B) 2SC3326(B)
k3		
k4		
k5		

s	Circuit No.	J	U.C.A	A.T.K
1				
2				
3				
4				
5				
6	D902	X	SIR-505ST V259820	SIR-505ST V259820
7	R910.R967	X	10K RD35710	10K RD35710
8	D961-963	X	1SS355 VT33260	1SS355 VT33260
9	JK961-963	X	MSJ-035-12APC V943570	MSJ-035-12APC V943570
10	C961-962	X	0.01 US06410	0.01 US06410
11	R966	X	27 RD35427	27 RD35427
12	R968	X	100K RD35810	100K RD35810
13	Q961	X	A1708(S/T1) YP87260	A1708(S/T1) YP87260
14	Q962	X	DTC144EKA VV65570	DTC144EKA VV65570
15	CB962	X	3170-09MNS1XW V650950	3170-09MNS1XW V650950
16	IC961	X	ADM202JRN-REEL7 XW86340	ADM202JRN-REEL7 XW86340
17	C964	X	47/16 UA83747	47/16 UA83747
18	C965-969	X	0.1/16 US13510	0.1/16 US13510
19	CB963	52044 VG04440	X	X
20	C970, 971	X	1000P US06310	X

x: NOT USED
O: USED / APPLICABLE

NOTICE (model)
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(C)····· CANADA
(R)····· GENERAL
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(A)····· AUSTRALIA
(B)····· BRITISH
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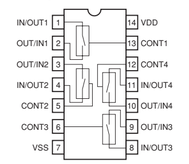
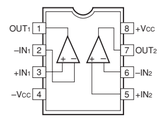
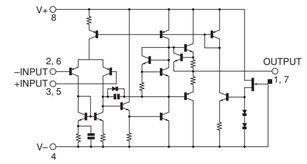
IC801: TC4086BP
Quad Analog Switch/Multiplexer



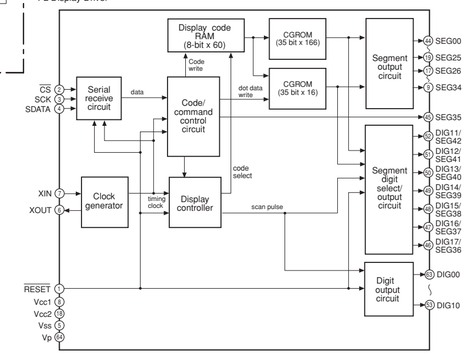
IC802, 803: NJM2068MD-TE2
Dual OP-Amp.



IC804: NJM4556AL
Dual OP-Amp



IC901: M66003-0101FP
FL Display Driver



★ All voltages are measured with a 10MΩ/V DC electric volt meter.
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★ Schematic diagram is subject to change without notice.

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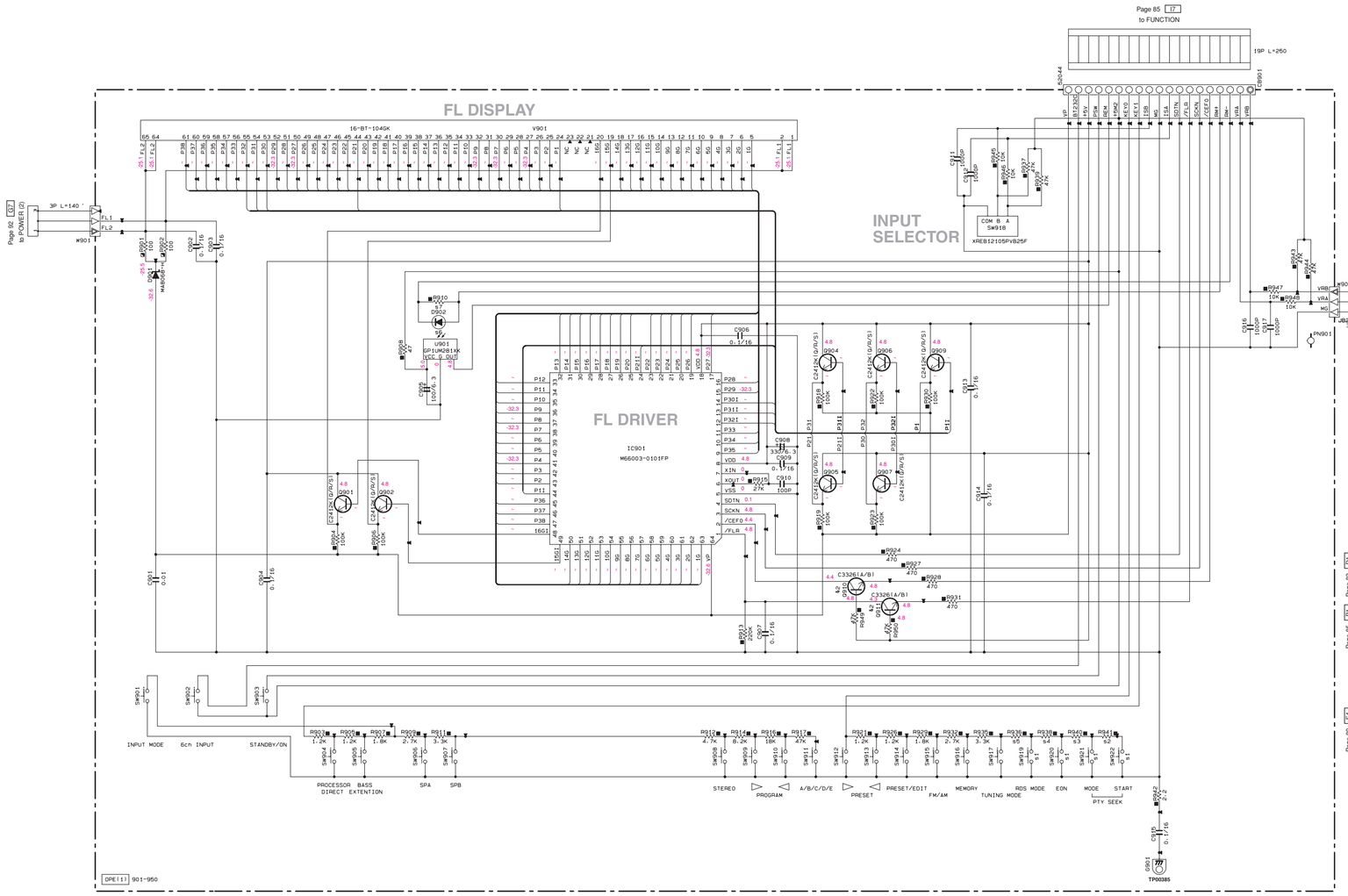
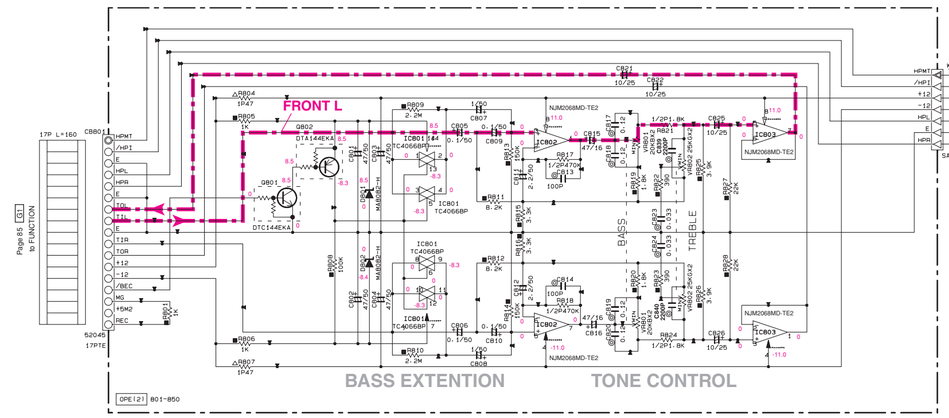
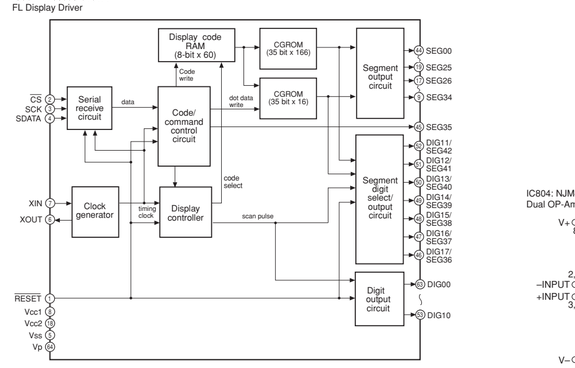
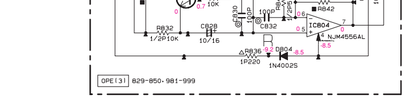
■ SCHEMATIC DIAGRAM (OPERATION) RX-V1300/RX-V1300RDS/HTR-5590/DSP-AX1300

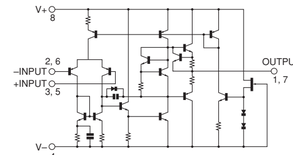




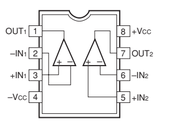




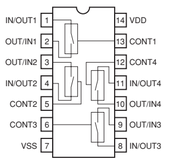
IC804: NJM4556AL
Dual OP-Amp



IC802, 803: NJM2068MD-TE2
Dual OP-Amp.



IC801: TC4066BP
Quad Analog Switch/Multiplexer



RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
⊠	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
△	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
⊠	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	B
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	F
◉	CERAMIC TUBULAR CAPACITOR	
Ⓜ	POLYESTER FILM CAPACITOR	
Ⓢ	POLYSTYRENE FILM CAPACITOR	
Ⓘ	MICA CAPACITOR	
Ⓟ	POLYPROPYLENE FILM CAPACITOR	
⊛	SEMICONDUCTIVE CERAMIC CAPACITOR	
Ⓢ	POLYPHENYLENE SULFIDE FILM CAPACITOR	

NOTICE (model)
(J)····· JAPAN
(U)····· U.S.A
(C)····· CANADA
(R)····· GENERAL
(T)····· CHINA
(K)····· KOREA
(A)····· AUSTRALIA
(B)····· BRITISH
(G)····· EUROPE
(L)····· SINGAPORE

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
&1	Q982	2SA1037AK(Q/R/S) 2SA1235A(E/F)
&2	Q803.804.910.911	2SC3326(A/B) 2SC3326(B)
&3		
&4		
&5		

s	Circuit No.	J-R-T-K	U-C-A	B-G
1	SW919-922	X	X	V475710
2	R941	X	X	47K RD35747
3	R940	X	X	18K RD35718
4	R938	X	X	8.2K RD35682
5	R936	X	X	4.7K RD35647
6	D902	X	S1B-5055T V25820	X
7	R910-R967	X	10K RD35710	X
8	D961-963	X	1SS355 V133290	X
9	JK961-963	X	MSJ-035-12APC V943570	X
10	C961-C962	X	0.01 US06410	X
11	R966	X	27 RD35427	X
12	R968	X	100K RD35810	X
13	Q961	X	A1708(S/T) VP87260	X
14	D962	X	DTC144EKA VV65570	X
15	C970,971	X	1000P US06310	X

x: NOT USED
O: USED / APPLICABLE

★ All voltages are measured with a 10MΩ/V DC electric volt meter.
★ Components having special characteristics are marked ! and must be replaced with parts having specifications equal to those originally installed.
★ Schematic diagram is subject to change without notice.

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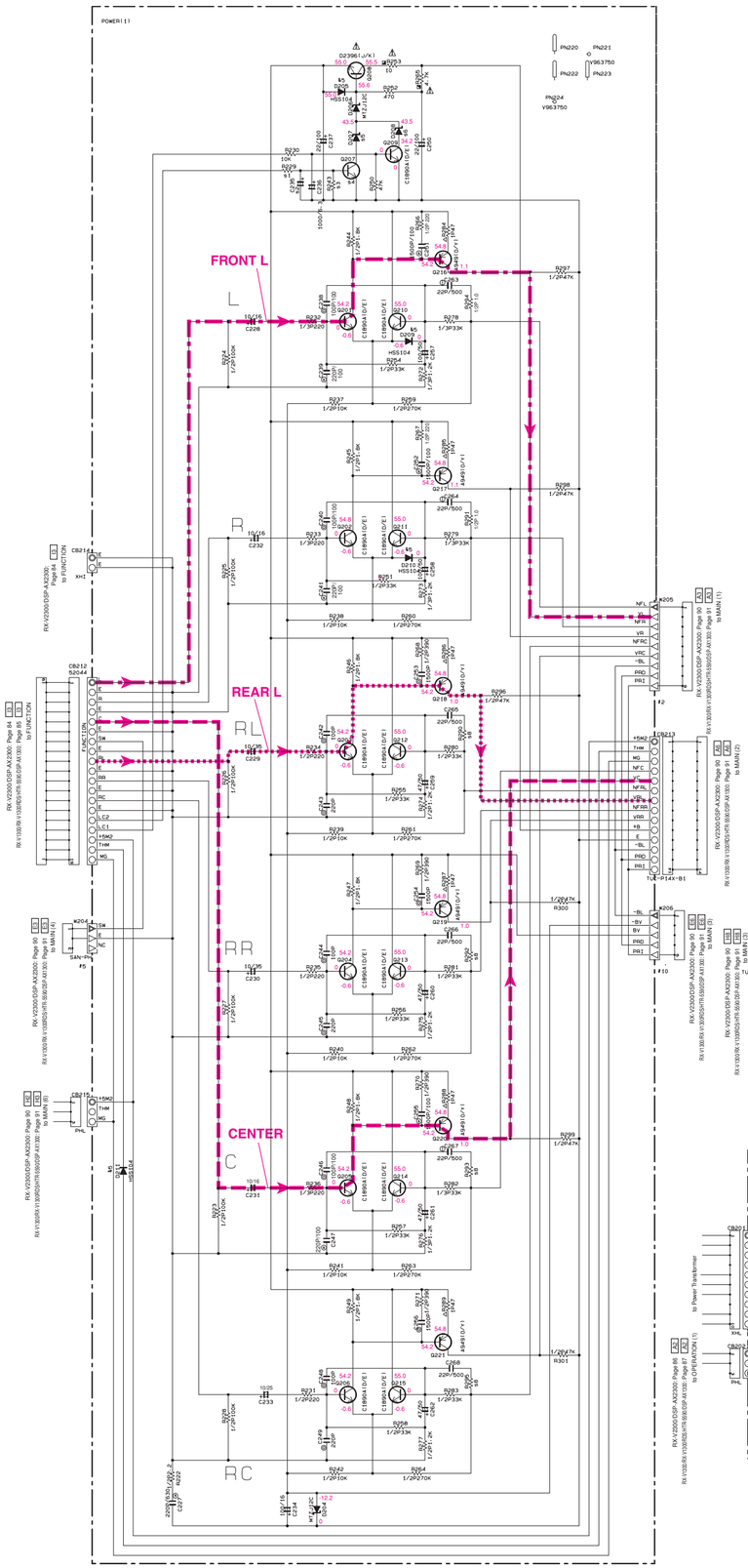
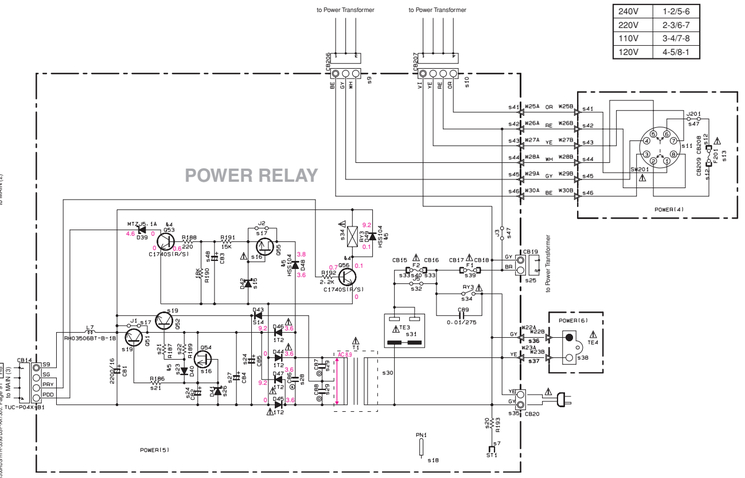
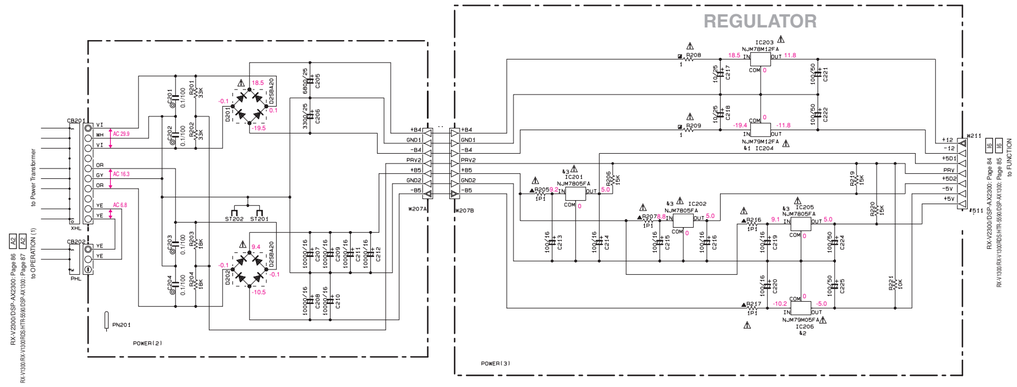
■ SCHEMATIC DIAGRAM (POWER)







RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
▽	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
◪	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	∥
⊗	TANTALUM CAPACITOR	∥
NO MARK	CERAMIC CAPACITOR	=
◉	CERAMIC TUBULAR CAPACITOR	=
◎	POLYESTER FILM CAPACITOR	=
○	POLYSTYRENE FILM CAPACITOR	=
ⓘ	MICA CAPACITOR	=
ⓟ	POLYPROPYLENE FILM CAPACITOR	=
◉	SEMICONDUCTIVE CERAMIC CAPACITOR	=

NOTICE (model)
(J)····· JAPAN
(U)····· U.S.A
(C)····· CANADA
(R)····· GENERAL
(T)····· CHINA
(K)····· KOREA
(A)····· AUSTRALIA
(B)····· BRITISH
(G)····· EUROPE
(L)····· SINGAPORE

VOLTAGE SELECTOR

240V	1-2/5-6
220V	2-3/6-7
110V	3-4/7-8
120V	4-5/8-1

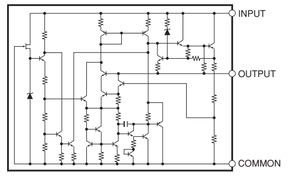
		DSP-AX1300	RX-V1300		RX-V1300RDS		HTR-5590	
		J	U, C	R, T, K	B	G	U, C	T, K
s1	R229	x	10K HF-45710	10K HF-45710	10K HF-45710	10K HF-45710	10K HF-45710	10K HF-45710
s2	C235	x	1000/6.3 URB1910	1000/6.3 URB1910	1000/6.3 URB1910	1000/6.3 URB1910	1000/6.3 URB1910	1000/6.3 URB1910
s3	R243	x	47K HF-45747	47K HF-45747	47K HF-45747	47K HF-45747	47K HF-45747	47K HF-45747
s4	Q207	x	2SC1890A VP88310	2SC1890A VP88310	2SC1890A VP88310	2SC1890A VP88310	2SC1890A VP88310	2SC1890A VP88310
s5	Q207	x	MTZJ9.1A VG43910	MTZJ9.1A VG43910	MTZJ9.1A VG43910	MTZJ9.1A VG43910	MTZJ9.1A VG43910	MTZJ9.1A VG43910
s6	D208	MTZJ10A VG44180	MTZJ20C VG44180	MTZJ20C VG44180	MTZJ20C VG44180	MTZJ20C VG44180	MTZJ20C VG44180	MTZJ20C VG44180
s7	S11	x	o	x	x	x	o	x
s8	R290, 292, 293, 295	1/2P1.0 HF-35310	1/2P1.0 HF-35310	1/2P1.0 HF-35310	1/2P1.0 HF-35310	1/2P470 HF-35547	1/2P1.0 HF-35310	1/2P1.0 HF-35310
s9	CB206	x	x	B3P5S-VH V937780	x	x	x	B3P5S-VH V937780
s10	CB207	x	x	B4P5-VH V937790	x	x	x	B4P5-VH V937790
s11	SW201	x	x	V718230	x	x	x	V718230
s12	CB208-CB209	x	x	VP20650	x	x	x	VP20650
s13	F201	x	x	T4.0AL250V KB00079	x	x	x	T4.0AL250V KB00079
s14	D43	x	x	1T2 V599780	x	x	x	1T2 V599780
s15	D42	x	x	MTZJ6.2C VG43810	x	x	x	MTZJ6.2C VG43810
s16	D54, 55	x	x	K24611 IE10262	x	x	x	K24611 IE10262
s17	J1, 2	o	o	x	o	o	x	x
s18	PN1	o	o	x	o	o	o	x
s19	Q51, Q52	x	x	D2396 J,K1 VR51080	x	x	x	D2396 J,K1 VR51080
s20	R193	x	1/2P 2.2M VE73500	x	x	x	1/2P 2.2M VE73500	x
s21	R186-R187	x	x	100 HF-45510	x	x	x	100 HF-45510
s22	R189	x	x	10K HF-45710	x	x	x	10K HF-45710
s23	D40	x	x	HSS104 V063160	x	x	x	HSS104 V063160
s24	CB2-B5	x	x	10/50 UR86710	x	x	x	10/50 UR86710
s25	CB19	VHIS V087590	VHIS V087590	x	VHIS V087590	VHIS V087590	VHIS V087590	x
s26	D41	x	x	MTZJ10B VG43950	x	x	x	MTZJ10B VG43950
s27	CB4	x	x	10/63 UR87710	x	x	x	10/63 UR87710
s28	CB6	0.01/100 VL88460	0.01/100 VL88460	x	0.01/100 VL88460	0.01/100 VL88460	0.01/100 VL88460	x
s29	CB7-CB8	x	x	0.01 UA86410	x	x	x	0.01 UA86410
s30	T1	X2935	X2936	X2937	X2938	X2939	X2939	X2938
s31	TE3	S2-7527-214 VJ54310	S2-7541-214 VJ54310	AC-182-GB-11V V586740	S2-7731-210 VT91500	S2-7527-210 VJ54330	S2-7527-214 VJ54340	S2-7731-210 VT91500
s32	J5	o	o	o	o	o	o	o
s33	CB15-CB16	x	x	x	x	x	VP20650	x
s34	RY1	DLS901-01W10.-15M V936700	DLS901-01W10.-25M V936690	DLS901-01W10.-25M V936690	DLS901-01W10.-15M V936700	DLS901-01W10.-15M V936700	DLS901-01W10.-25M V936690	DLS901-01W10.-15M V936700
s35	CB20	x	x	VHTS V087590	VHTS V087590	x	VHTS V087590	VHTS V087590
s36	W22	MH19012	MH19012	x	x	x	MH19012	x
s37	W23	MH16012	MH16012	x	x	MH16012	x	x
s38	TE4	W1908-0 V656120	W1908-0 V656120	x	x	W1908-0 V656120	x	x
s39	F1	8A125V VS82330	8A125V VS82330	8A125V VS82330	T4.0AL250V KB00079	T4.0AL250V KB00079	8A125V VS82330	T4.0AL250V KB00079
s40	F2	x	x	x	x	T2.5AH250V V164250	x	x
s41	W25	x	x	ORANGE MH03018	x	x	x	ORANGE MH03018
s42	W26	x	x	RED MH02018	x	x	x	RED MH02018
s43	W27	x	x	VIOLET MH04018	x	x	x	VIOLET MH04018
s44	W28	x	x	WHITE MH09018	x	x	x	WHITE MH09018
s45	W29	x	x	GRAY MH08018	x	x	x	GRAY MH08018
s46	W30	x	x	BLUE MH06018	x	x	x	BLUE MH06018
s47	J3, 201	x	x	o	x	x	x	o
s48	CB3	47/16 UR83747	47/16 UR83747	33/16 UR83733	47/16 UR83747	47/16 UR83747	47/16 UR83747	33/16 UR83733

x: NOT USED
o: USED / APPLICABLE

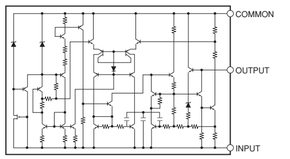
Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
k1	IC204	NJM79M12FA AN79M12F
k2	IC206	NJM79M05FA AN79M05F
k3	IC201-202-205	NJM7805FA AN7805F
k4	Q53-56	2SC1740S(R/S) 2SC3311A(Q/R/S)
k5	D40-48-49-205-209-211	HSS104 1SS133 1SS176

IC201 202, 205: NJM7805FA
IC203: NJM78M12FA
Voltage Regulator



IC204: NJM79M12FA
IC206: NJM79M05FA
Voltage Regulator



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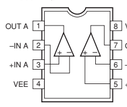
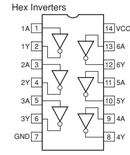
■ SCHEMATIC DIAGRAM (VIDEO) RX-V2300/DSP-AX-2300

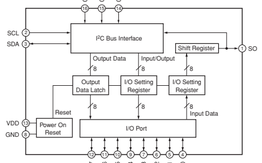
IC601, 611: TK15420M
Video Amp



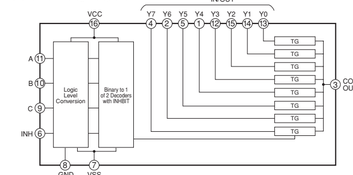
IC608: TC74HCU04AFEL
Hex Inverters



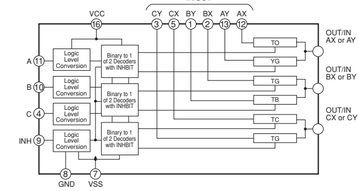
IC582: M62320FP
I/O Expander



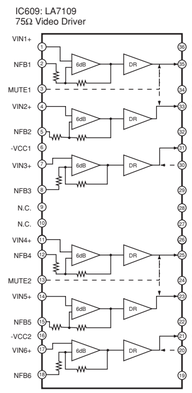
IC602~605: MM74HC4051N
IC702, 703: MM74HC4051SJX
8-Channel Analog Multiplexer



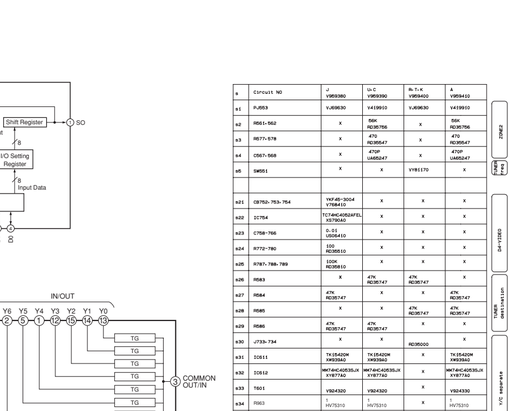
IC606, 607: MM74HC4053N
IC612, 704: MM74HC4053SJX
Triple 2-Channel Analog Multiplexer



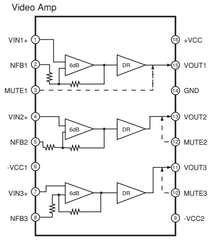
IC609: LA7109
75Ω Video Driver



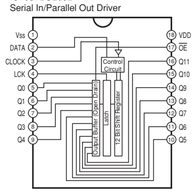
IC610: LC74781-9798
On Screen Display Controller



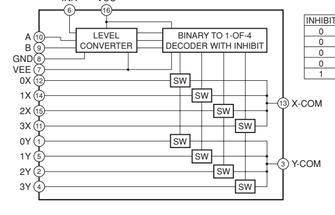
IC701: LA7108M
Video Amp



IC705: BU2092
Serial In/Parallel Out Driver

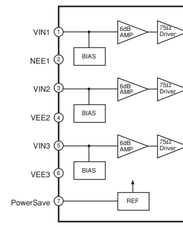


IC751, 753, 754: TC74HC4052AF
Analog Multiplexer/Demultiplexer



INHIBIT	B	A	
0	0	0	0x, 0y
0	0	1	1x, 1y
0	1	0	2x, 2y
0	1	1	3x, 3y
1	X	X	NONE

IC752: NJM2581M
Video Amp



a	Circuit NO	V	U-C	R-T-K	A
a1	PJ853	V496380	V419910	V496430	V419910
a2	RR61-562	X	56K RD85756	X	56K RD85756
a3	RR77-578	X	47Ω RD85547	X	47Ω RD85547
a4	CR67-568	X	47UF UA65247	X	47UF UA65247
a5	SW551	X	X	V181170	X
a21	CR75D-753-754	VKF45-3004 V788410	X	X	X
a22	IC754	TC74HC4052AFEL V379540	X	X	X
a23	C758-766	0.01 UD05410	X	X	X
a24	R772-780	100 RD85510	X	X	X
a25	R787-788-789	100K RD86810	X	X	X
a26	R583	X	47K RD85747	X	X
a27	R584	X	47K RD85747	X	47K RD85747
a28	R585	X	X	47K RD85747	47K RD85747
a29	R586	47K RD85747	47K RD85747	X	X
a30	J733-734	X	X	RD85000	X
a31	IC611	TK15420M V493540	TK15420M V493540	X	TK15420M V493540
a32	IC612	MM74HC4053JX V187740	MM74HC4053JX V187740	X	MM74HC4053JX V187740
a33	T601	V924320	V924320	X	V924330
a34	R963	1 MV75310	1 MV75310	X	1 MV75310
a35	R689-692	1K RD85510	1K RD85510	X	1K RD85510
a36	R670-674-683-684	47Ω RD85547	X	X	47Ω RD85547
a37	D607	X	1SS355 YT53290	X	1SS355 YT53290
a41	JK605	V586730	V927350	V586730	V927350
a42	CE36-549	X	0.1/25 UD13510	X	0.1/25 UD13510
a44	PJ704	V718980	V938500	V718980	V938500
a45	R666-667-711	X	10K RD85710	X	10K RD85710
a46	R660-665-712	X	7Ω RD85475	X	7Ω RD85475
a47	CR54-555-703	X	47P UD05147	X	47P UD05147
a48	CR50-711	X	47/16 UH83747	X	47/16 UH83747
a49	JW51	VN50000	X	VN50000	X
a50	IC704	X	MM74HC4053JX V187740	X	MM74HC4053JX V187740
a51	XL601	14.31818MHz V901540	14.31818MHz V901540	14.31818MHz V901540	17.734475MHz V901555
a52					
a54	R724	X	47K RD85747	X	47K RD85747
a55	J741-742	X	X	RD85000	X
a56	IC606	X	MM74HC4053N X209340	X	MM74HC4053N X209340
a59	R681	X	X	X	47K RD85747
a60	R682	47K RD85747	47K RD85747	47K RD85747	X
a61	R780-783-784	7Ω RD85475	X	X	X
a62	C778-779-780	8P UD05080	X	X	X

x: NOT USED
O: USED / APPLICABLE

ZONE2 (Tuner)
S-I-VIDEO
HDMI Destination
V/C separate
ZONE2
ZONE2
NTSC/PAL
ZONE2
NTSC/PAL (M/N/Nc)
S-I-VIDEO

VIDEO(6) Audio in/out

VIDEO(5) Connection

VIDEO(7) Connection

VIDEO(1) S-VIDEO in/out

VIDEO(2) VIDEO in/out

VIDEO(8) Connection

VIDEO(4) COMPONENT VIDEO in/out

C-INPUT SELECTOR
Y-INPUT SELECTOR
C-REC OUT SELECTOR
Y-REC OUT SELECTOR
S-SIGNAL DETECTOR
SYNC SIGNAL DETECTOR
ON SCREEN
INPUT SELECTOR
REC OUT/ ZONE2 SELECTOR
Y SELECTOR
C SELECTOR
Cb/Pb SELECTOR
Cr SELECTOR

Page 84 CG to FUNCTION
Page 84 CE to FUNCTION
Page 84 CE to FUNCTION
Page 84 CE to FUNCTION
Page 86 HS to OPERATION (3)
Page 86 HS to OPERATION (4)

★ All voltages are measured with a 10MΩ/V DC electric volt meter.
★ Components having special characteristics are marked ! and must be replaced with parts having specifications equal to those originally installed.
★ Schematic diagram is subject to change without notice.

● 電圧は、内部抵抗10MΩの電圧計で測定したものです。
● ! 印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
● 本回路図は標準回路図です。改良のため予告なく変更することがございます。

RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (5%)
☑	CARBON FILM RESISTOR (5%)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
▨	METAL PLATE RESISTOR
▩	FINE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
◇	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR

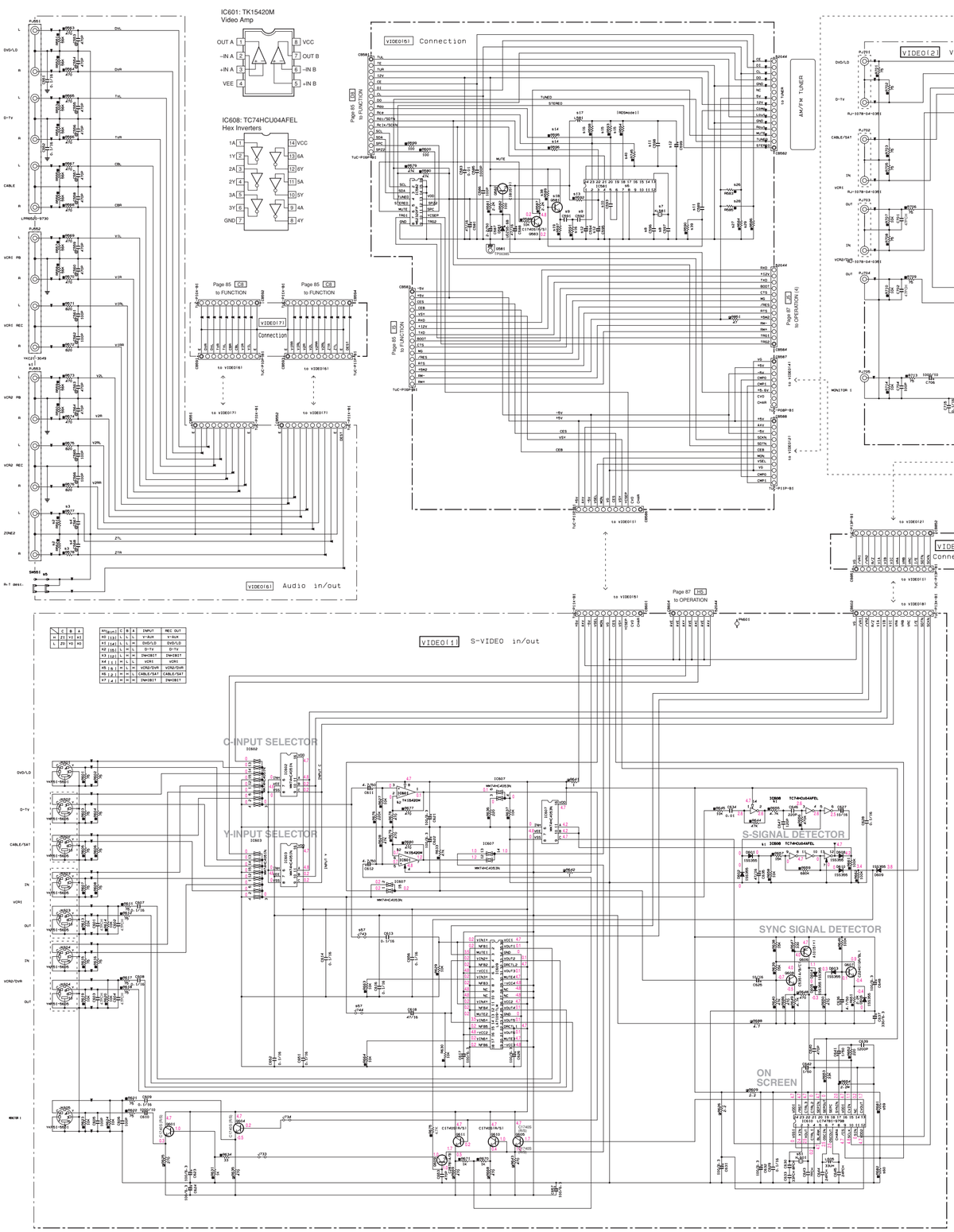
REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
▽	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
◉	CERAMIC TUBULAR CAPACITOR
◎	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
ⓜ	MICA CAPACITOR
ⓟ	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

Interchangeable Parts at Manufacture-Stage

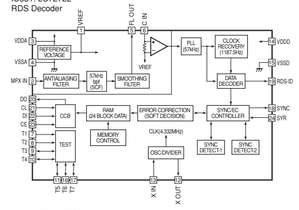
Mark	Reference Parts Number	Parts Name
▲1	IC609	TC74HCU04AFEL
		MM74HC4051JX
▲2	IC751-753-754	TC74HC4052AF
		MM74HC4052SJX
▲3	IC601-611	TK15420M
		AD8056AR

NOTICE (model)
(J) ····· JAPAN
(U) ····· U.S.A
(C) ····· CANADA
(E) ····· GENERAL
(T) ····· CHINA
(K) ····· KOREA
(A) ····· AUSTRALIA
(B) ····· BRITISH
(G) ····· EUROPE
(L) ····· SINGAPORE

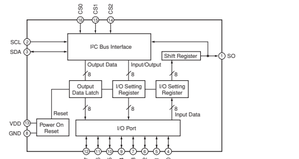
■ SCHEMATIC DIAGRAM (VIDEO) RX-V1300/RX-V1300RDS/HTR-5590/DSP-AX1300



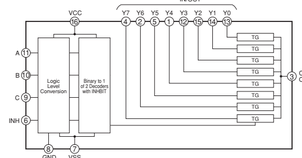
IC581: LC72722
RDS Decoder



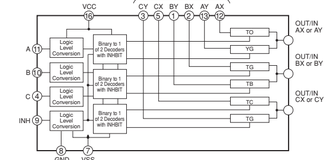
IC582: M62320FP
I/O Expander



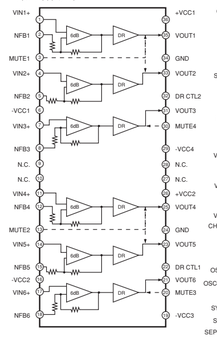
IC602, 603: MM74HC4051N
IC702: MM74HC4051SJX
8-Channel Analog Multiplexer



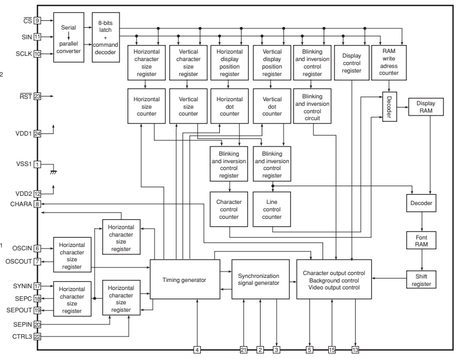
IC607: MM74HC4053N
Triple 2-Channel Analog Multiplexer



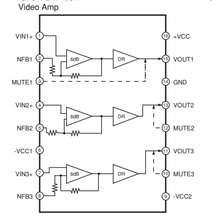
IC609: LA7109
75Ω Video Driver



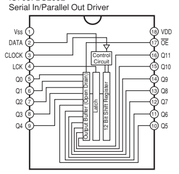
IC610: LC74781-9798
On Screen Display Controller



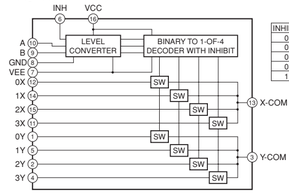
IC701: LA7108M
Video Amp



IC705: BU2092
Serial In/Parallel Out Driver

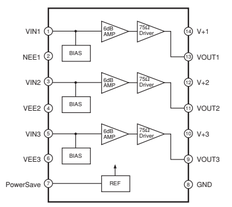


IC751, 753, 754: TC74HC4052AF
Analog Multiplexer/Demultiplexer



INHIBIT	B	A	
0	0	0	0x, 0y
0	0	1	1x, 1y
0	1	0	2x, 2y
0	1	1	3x, 3y
1	X	X	NONE

IC752: NJM2581M
Video Amp



b	Circuit NO.	J V959300	U-C V959310	A-T-K V959320	E V959330	B-G V959340	
b1	PJ653		x:69630	x:69630	x:69630	x:69630	Jacks unit
b2	R561-562		56K RD35756	x	56K RD35756	x	
b3	R577-578		x	47K RD35547	x	x	
b4	C567-568		x	470P UA05247	x	x	
b5	SW551		x	x	x:81170	x	
b6	IC581		x	x	x	x	LC72722 x:YEA40
b7	XL581		x	x	x	x	4.332MHz x:TP5600
b8	C596-597		x	x	x	x	270CH UU05127
b9	C591-592		x	x	x	x	330P UU05233
b10	C593		x	x	x	x	560P UU05256
b11	C589-598		x	x	x	x	0.1/16 UU13510
b12	C594-595-599		x	x	x	x	47/16 UR03747
b13	R592		x	x	x	x	100 RD36510
b14	R595-596		x	x	x	x	47Ω RD35547
b15	R593-594		x	x	x	x	10K RD36710
b16	R591-598		x	x	x	x	22K RD35722
b17	L581		x	x	x	x	220uH rh35750
b18	U581		x	x	x	x	C174HS1W/S1 IC17402
b19	R597		x	x	x	x	2.2K RD35622
b21	CB752-753-754		ref:B6-3004 YR6410	x	x	x	x
b22	IC754		TC74HC4052AFEL x:57630	x	x	x	x
b23	C756-766		0.01 UU04410	x	x	x	x
b24	R772-780		100 RD36510	x	x	x	x
b25	R767-768-789		100K RD36810	x	x	x	x
b26	R563		x	47K RD35747	x	x	x
b27	R564		47K RD35747	x	x	47K RD35747	47K RD35747
b28	R565		x	47K RD35747	x	47K RD35747	47K RD35747
b29	R566		47K RD35747	47K RD35747	x	x	x
b30	R589		x	x	x	x	100K RD36810
b31	R590		x	x	x	x	33K RD35733
b40	X745		47K RD35747	47K RD35747	47K RD35747	x	x
b51	XL601		14.31818MHz VS01840	14.31818MHz VS01840	14.31818MHz VS01840	17.734476MHz VS01850	17.734476MHz VS01850
b59	R681		x	x	x	47K RD35747	47K RD35747
b60	R682		47K RD35747	47K RD35747	47K RD35747	x	x
b61	R782-783-784		75 RD35475	x	x	x	x
b62	C778-779-780		8P UU06080	x	x	x	x

x: NOT USED
O: USED / APPLICABLE

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● 本回路図は標準回路図です。改良のため予告なく変更することがございます。

RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1P~5I)
⚠	CARBON FILM RESISTOR (5P~10)
⚠	METAL OXIDE FILM RESISTOR
⚠	METAL FILM RESISTOR
⚠	METAL PLATE RESISTOR
⚠	FIRE PROOF CARBON FILM RESISTOR
⚠	CEMENT MOLDED RESISTOR
⚠	SEMI VARIABLE RESISTOR
⚠	CHIP RESISTOR

CAPACITOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⚠	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⚠	CERAMIC TUBULAR CAPACITOR
⚠	POLYESTER FILM CAPACITOR
⚠	POLYSTYRENE FILM CAPACITOR
⚠	MICA CAPACITOR
⚠	POLYPROPYLENE FILM CAPACITOR
⚠	SEMICONDUCTIVE CERAMIC CAPACITOR

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
▲1	IC608	TC74HCU04AFEL
		MM74HC4051JX
▲2	IC751-753-754	TC74HC4052AF
		MM74HC4052JX
▲3	IC601	TK15420MTL
		AD8056AR

NOTICE (model)
(J)•••• JAPAN
(U)•••• U.S.A
(C)•••• CANADA
(A)•••• GENERAL
(T)•••• CHINA
(K)•••• KOREA
(A)•••• AUSTRALIA
(B)•••• BRITISH
(G)•••• EUROPE
(L)•••• SINGAPORE