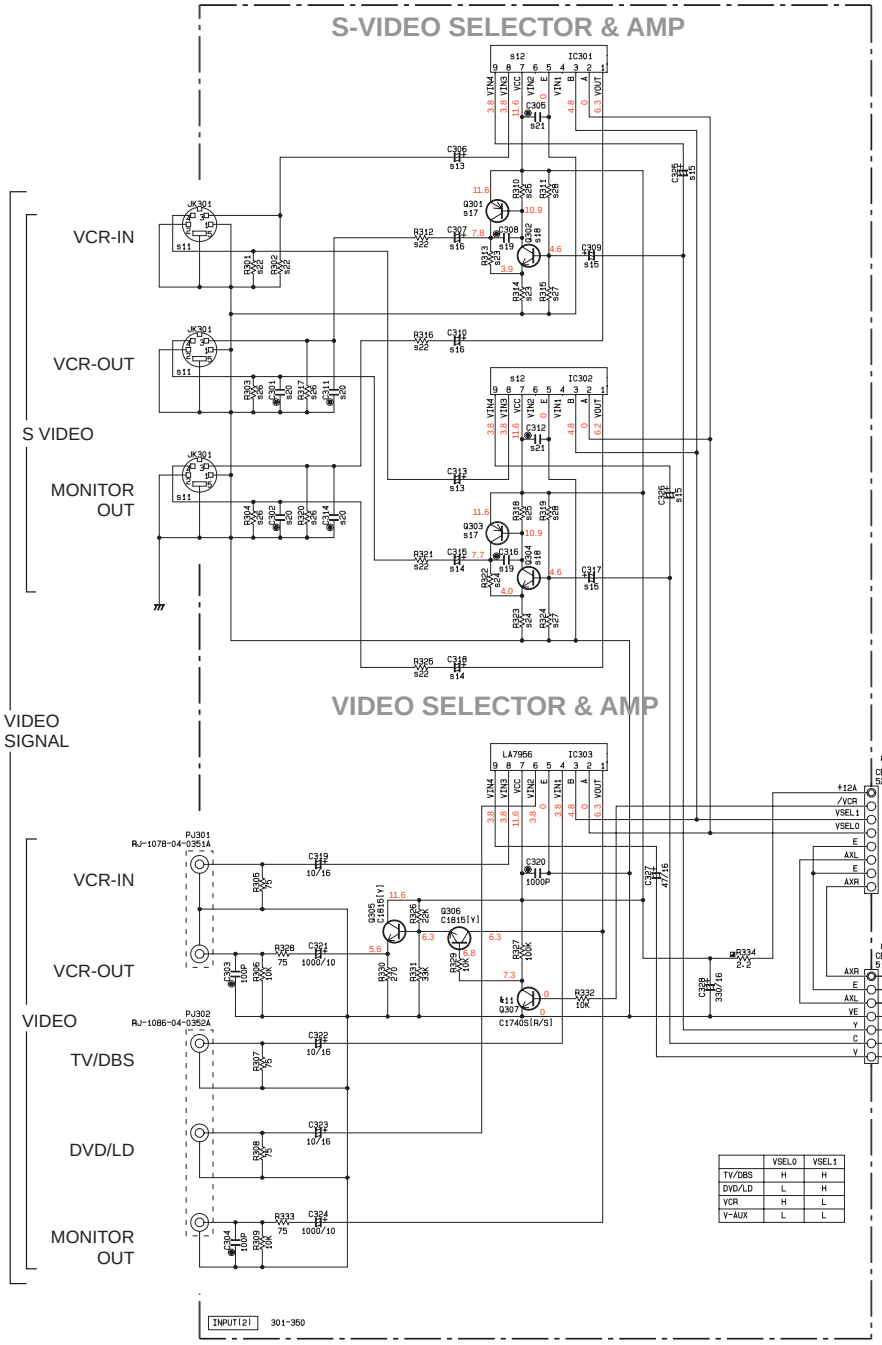
■ SCHEMATIC DIAGRAM (INPUT)



VSEL0	VSEL1
TV/DBS	H	H
DVD/LD	L	H
VCR	H	L
V-AUX	L	L

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
♯11	Q307	2SC1740S[R/S] 2SC2603[E/F] 2SC3311A[Q/R/S]

S		U.C.R.T	A.L	B.G
11	JK301	X	X	VN93810
12	IC301・302	X	X	LA7956 XH43640
13	C306・313	X	X	10/16 URB3710
14	C315・318	X	X	33/16 URB3733
15	C309・317・325・326	X	X	47/16 URB3747
16	C307・310	X	X	1000/10 URB2910
17	Q301・303	X	X	A1015[Y] IA1015I
18	Q302・304	X	X	C1815[Y] IC1815I
19	C308・316	X	X	22P VG27660
20	C301・302・311・314	X	X	100P VF46680
21	C305・312	X	X	1000P VF46700
22	R301・302・312・316・321・325	X	X	75 HF45475
23	R313・314	X	X	150 HF45515
24	R322・323	X	X	330 HF45533
25	R310・318	X	X	1K HF45610
26	R303・304・317・320	X	X	10K HF45710
27	R315・324	X	X	22K HF45722
28	R311・319	X	X	33K HF45733

X: NOT USED

NOTICE (model)
(J)····· JAPANESE
(U)····· U.S.A
(C)····· CANADIAN
(R)····· GENERAL
(A)····· AUSTRALIAN
(B)····· BRITISH
(G)····· EUROPEAN
(T)····· CHINA
(L)····· SINGAPORE

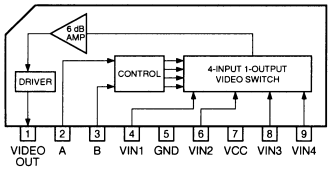
RESISTOR

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

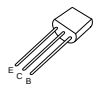
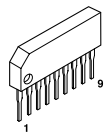
CAPACITOR

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	♯♯

IC301~303 : LA7956
Video Switch



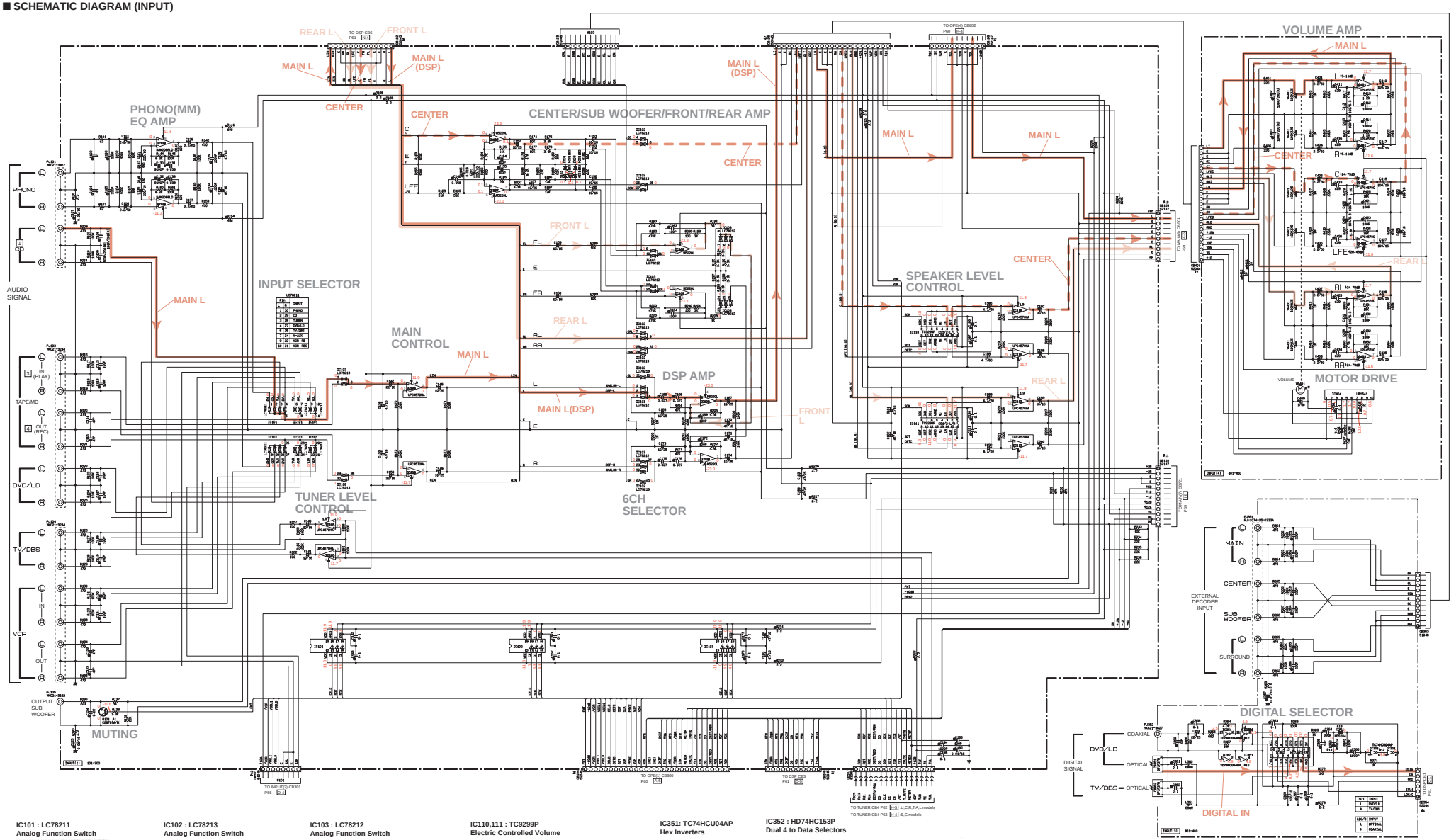
PIN CONNECTION DIAGRAM OF TRANSISTORS AND IC's.

2SC1740S(R,S)	2SA1015(Y) 2SC1815(Y)	LA7956
		

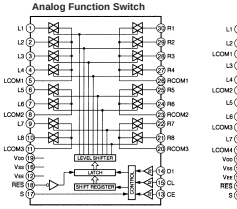
Conditions (RX-V595RDS)
- INPUT → CD
- VOLUME → minimum(-∞)
- IMPEDANCE SELECTOR → Upper
- PRO LOGIC → On

★ 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.

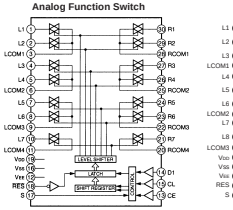
■ SCHEMATIC DIAGRAM (INPUT)



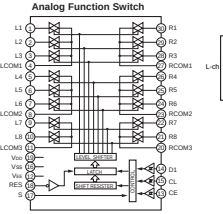
IC101 : LC78211
Analog Function Switch



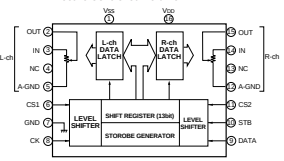
IC102 : LC78213
Analog Function Switch



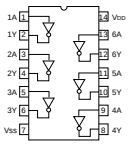
IC103 : LC78212
Analog Function Switch



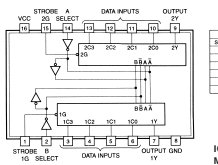
IC110,111 : TC9299P
Electric Controlled Volume



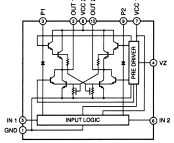
IC351: TC74HCU04AP
Hex Inverters



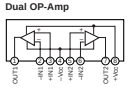
IC352 : HD74HC153P
Dual 4 to Data Selectors



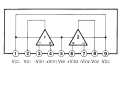
IC404 : LB1641
Motor Driver



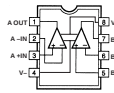
IC104 : NJM2068LD
IC107~109 : M5220L
Dual OP-Amp



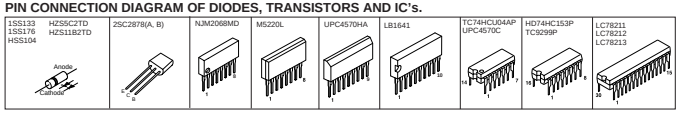
IC105, 106, 112, 113 : μPC4570HA
Dual OP-Amp



IC401~403 : μPC4570C
Dual OP-Amp

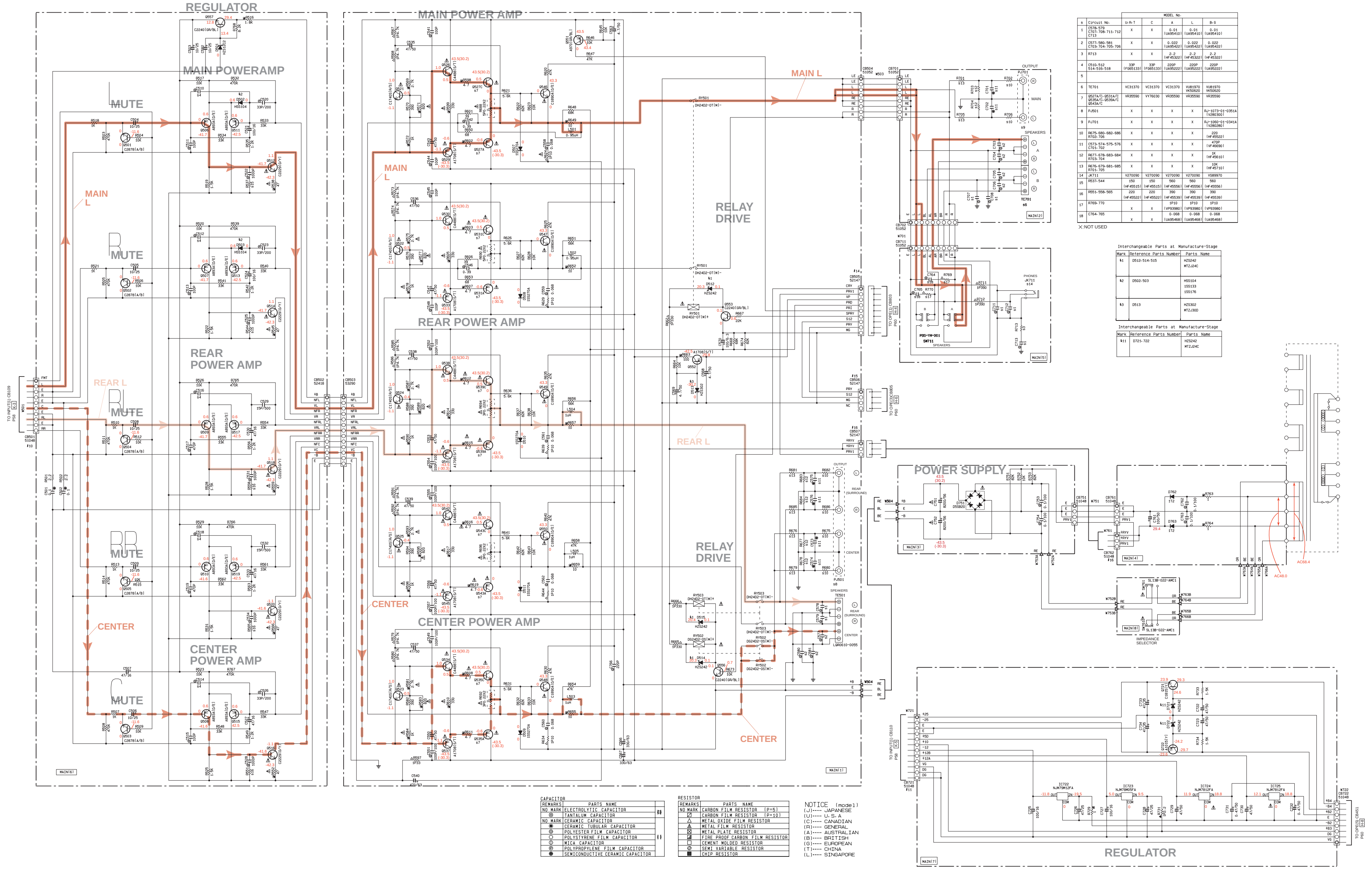


PIN CONNECTION DIAGRAM OF DIODES, TRANSISTORS AND IC's.



★ 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.

■ SCHEMATIC DIAGRAM (MAIN)



s	Circuit No.	U·R·T	C	A	L	B·G
		MODEL No.				
1	C578·579 C707·708·711·712 C713	X	X	0.01 (UA95410)	0.01 (UA95410)	0.01 (UA95410)
2	C577·580·581 C703·704·705·706	X	X	0.022 (UA95422)	0.022 (UA95422)	0.022 (UA95422)
3	R713	X	X	2.2 (HF45322)	2.2 (HF45322)	2.2 (HF45322)
4	C510·512 514·516·518	33P (FG65133)	33P (FG65133)	220P (UA95222)	220P (UA95222)	220P (UA95222)
5						
6	TE701	VC31370	VC31370	VC31370	VU81970 VK50620	VU81970 VK50620
7	Q527A/C·Q531A/C Q535A/C·Q539A/C Q543A/C	VR35590	VY76030	VR35590	VR35590	VR35590
8	PJ501	X	X	X	X	RJ-1073-01-0351A (V280300)
9	PJ701	X	X	X	X	RJ-1060-01-0341A (V280280)
10	R675·680·682·686 R702·706	X	X	X	X	220 (HF45522)
11	C573·574·575·576 C701·702	X	X	X	X	470P (VF46690)
12	R677·678·683·684 R703·704	X	X	X	X	1K (HF45610)
13	R676·679·681·685 R701·705	X	X	X	X	10K (HF45710)
14	JK711	V270090	V270090	V270090	V270090	VS89970
15	R537·544	150 (HF45515)	150 (HF45515)	560 (HF45556)	560 (HF45556)	560 (HF45556)
16	R551·558·565	220 (HF45522)	220 (HF45522)	390 (HF45539)	390 (HF45539)	390 (HF45539)
17	R769·770	X	X	1P10 (VP93980)	1P10 (VP93980)	1P10 (VP93980)
18	C764·765	X	X	0.068 (UA95468)	0.068 (UA95468)	0.068 (UA95468)

X:NOT USED

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
&1	D512·514·515	HZS242 MTZJ24C
&2	D502·503	HSS104 1SS133 1SS176
&3	D513	HZS302 MTZJ30D

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
&11	D721·722	HZS242 MTZJ24C

CAPACITOR

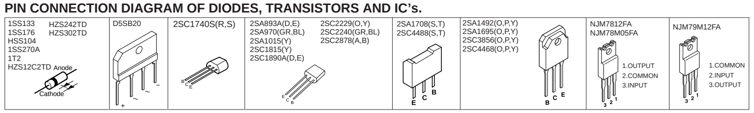
REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
◉	CERAMIC TUBULAR CAPACITOR
◎	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
⦶	MICA CAPACITOR
Ⓟ	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

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

NOTICE (model)
(J)····· JAPANESE
(U)····· U.S.A
(C)····· CANADIAN
(R)····· GENERAL
(A)····· AUSTRALIAN
(B)····· BRITISH
(G)····· EUROPEAN
(T)····· CHINA
(L)····· SINGAPORE

PIN CONNECTION DIAGRAM OF DIODES, TRANSISTORS AND IC's.

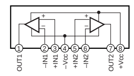


Conditions (RX-V595RDS)
- INPUT → CD
- VOLUME → minimum(–∞)
- IMPEDANCE SELECTOR → Upper
- PRO LOGIC → On

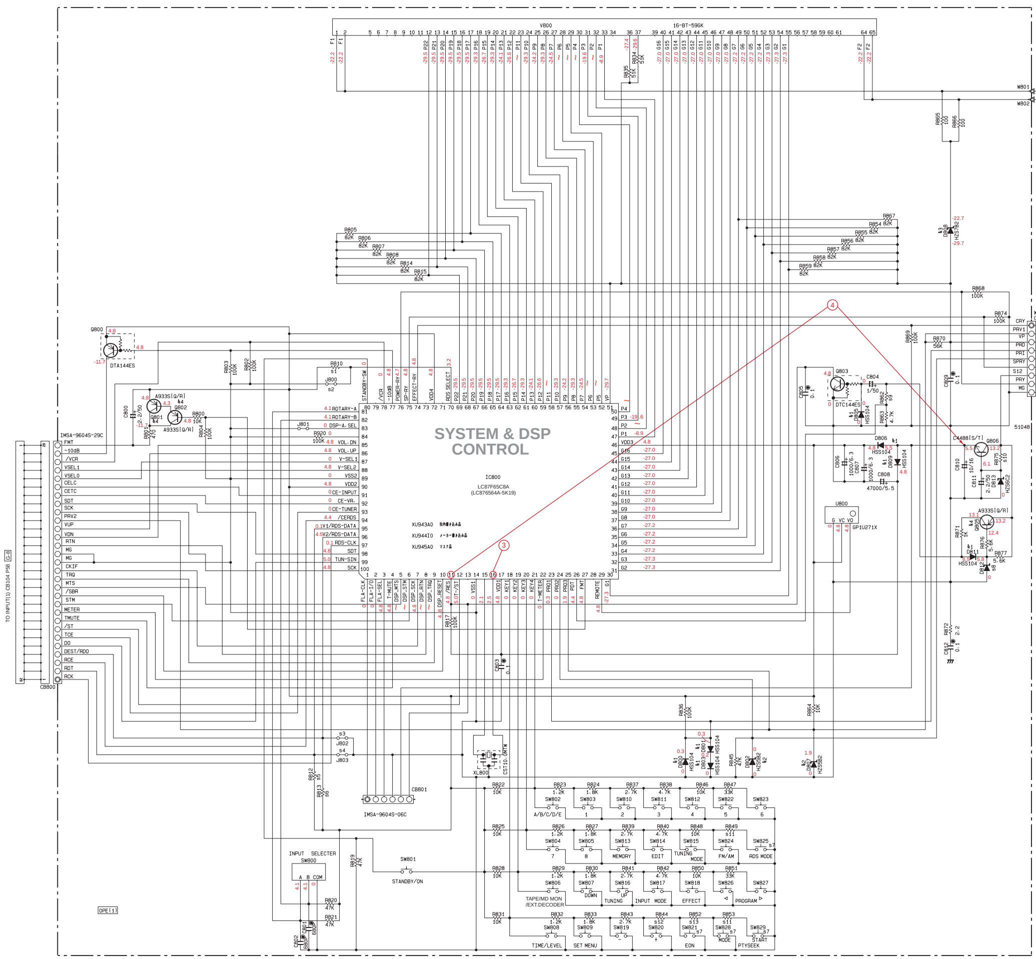
★ *All voltages are measured with a 10MΩ/V DC electric volt meter.*
★ *Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.*
★ *Schematic diagram is subject to change without notice.*

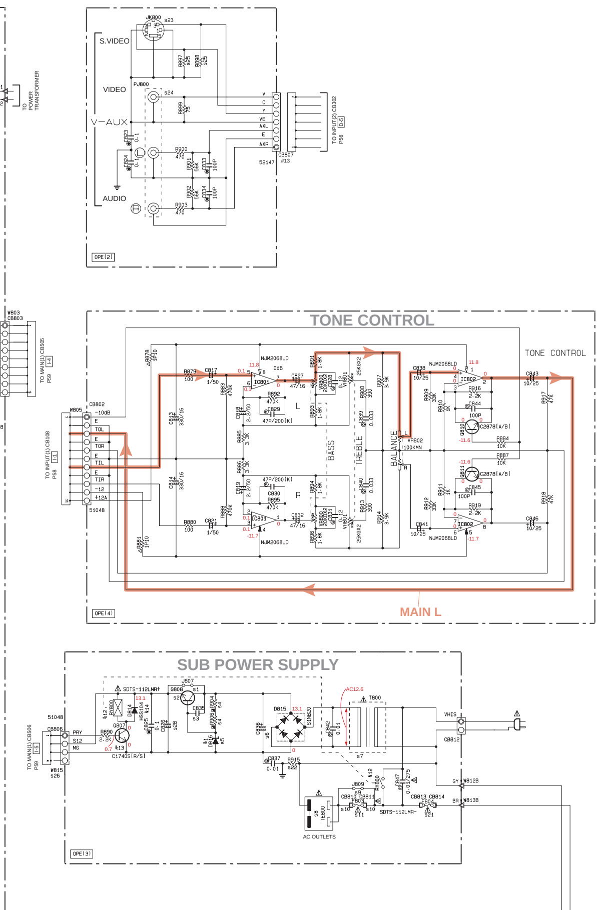
■ SCHEMATIC DIAGRAM (OPERATION)

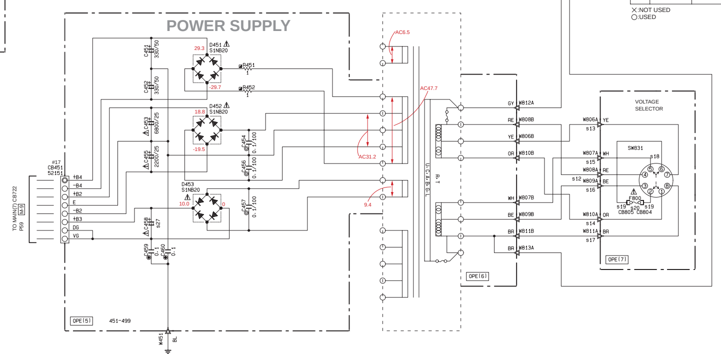
IC801, 802 : NJM2068LD
Dual OP-Amp



• IC800→See page 26~28, IC DATA







OPE(2),(3),(4)

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
&11		
&12	RY800	SDTS-112LMR DG12D1-0[M]II ALKS321
&13	Q807	2SC1740S[R/S] 2SC2603[E/F] 2SC3311A[Q/R/S]
&14	D814	HSS104 1SS133 1SS176

		U.C	R.T	A	B	G	L
s1	J807	O	X	O	O	O	O
s2	Q808	X	D2396[J/K] VR51080	X	X	X	X
s3	C835	X	1000P FG61310	X	X	X	X
s4	R904.906	X	5.6K HV75656	X	X	X	X
s5	D816	X	HZS11B2TD VM97530	X	X	X	X
s6	C836	X	4.7/100 UR89647	X	X	X	X
s7	T800	XC083	XT331	XC084	XC084	XC084	XC084
s8	TE800	VU54310	VU54310	VT91500	VU54330	VU54340	VU54340
s9	J809	O	O	O	O	X	X
s10	CB810.811	X	X	X	X	VP20650	VP20650
s11	F803	X	X	X	X	T2.5AH250V VT94290	T2.5AH250V VT94290
s12	W808	X	MH02030	X	X	X	X
s13	W806	X	MH04030	X	X	X	X
s14	W810	X	MH03030	X	X	X	X
s15	W807	X	MH09030	X	X	X	X
s16	W809	X	MH06030	X	X	X	X
s17	W811	X	MH01030	X	X	X	X
s18	SW831	X	VA96180	X	X	X	X
s19	CB804.805	X	VP20650	X	X	X	X
s20	F800	X	T4.0AL250V KB00079	X	X	X	X
s21	F804	8A125V VS82330	8A125V VS82330	T4.0AL250V KB00079	T4.0AL250V KB00079	T4.0AL250V KB00079	T4.0AL250V KB00079
s22	R915	1/2P2.2M HG30922	X	X	X	X	X
s23	JK800	X	X	X	V298290	V298290	X
s24	PJ800	VV85270	VV85270	VV85270	VV32510	VV32510	VV85270
s25	R897.898	X	X	X	75 HF45475	75 HF45475	X
s26	W815	MF00407	MF00416	MF00407	MF00407	MF00407	MF00407
s27	C458	4700/25 UR74947	10000/16 UR73A10	10000/16 UR73A10	10000/16 UR73A10	10000/16 UR73A10	10000/16 UR73A10
s28	C826	330/25 UR84833	220/25 UR84822	330/25 UR84833	330/25 UR84833	330/25 UR84833	330/25 UR84833

X:NOT USED
O:USED

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	

NOTICE (model)
(J)····· JAPANESE
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(R)····· GENERAL
(A)····· AUSTRALIAN
(B)····· BRITISH
(G)····· EUROPEAN
(T)····· CHINA
(L)····· SINGAPORE

OPE(1)

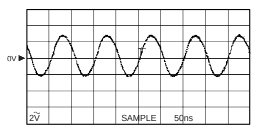
Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
&1	D800.801.803.805.806.809 811	HSS104 1SS133 1SS176
&2	D802.807	HZS5B2 MTZJ4.7C
&3	D808	HZS7B2 MTZJ7.5A
&4	Q801.802.805	2SA933S[Q/R] 2SA1115[E/F] 2SA1309a[Q/R/S]

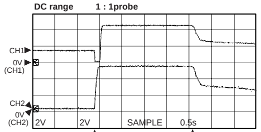
		U.C	R.T	A.L	B.G
s1	R810	X	X	X	100K HF45810
s2	J800	O	O	O	X
s3	J802	X	X	O	X
s4	J803	O	X	X	X
s5	R812	X	100K HF45810	100K HF45810	X
s6	R813	100K HF45810	100K HF45810	X	X
s7	SW821.825.828.829	X	X	X	VG39290
s8	D812	HZS7A2TD VM97460	HZS6B2TD VM97440	HZS7A2TD VM97460	HZS7A2TD VM97460
s9	R862	2.2K HF45622	1.5K HF45615	2.2K HF45622	2.2K HF45622
s10	R875	2.2K HF45622	4.7K HF45647	2.2K HF45622	2.2K HF45622
s11	R849.R853	X	X	X	33K HF45733
s12	R844	X	X	X	4.7K HF45647
s13	R852	X	X	X	10K HF45710

X:NOT USED
O:USED

Point ③
(Pin 16 of IC800)
V : 2V/div H : 50nsec/div
AC range 1 : 1 probe



Point ④
CH1 : Pin 11 of IC800
CH2 : Emitter of Q806
V : 2V/div H : 0.5sec/div
DC range 1 : 1probe



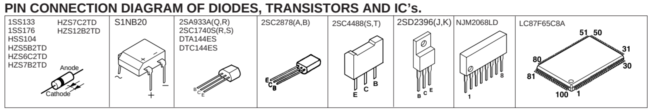
With the POWER switch turned ON, connect the power cord to the AC outlet.

Disconnect the power cord from the AC outlet.

(This waveform is not available by pushing the power switch ON and OFF.)

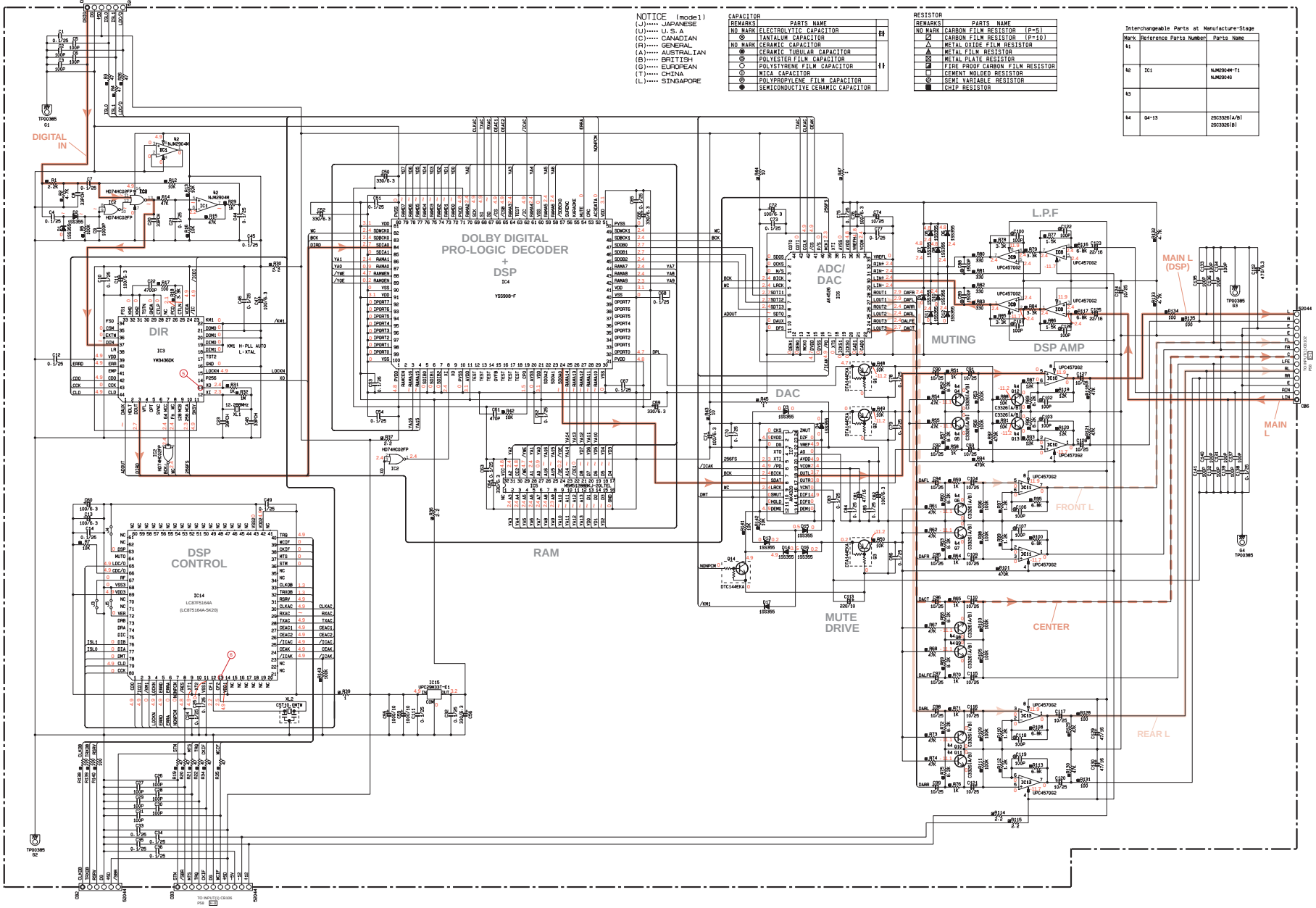
Conditions (RX-V595RDS)
• INPUT → CD
• VOLUME → minimum(–∞)
• IMPEDANCE SELECTOR → Upper
• PRO LOGIC → On

PIN CONNECTION DIAGRAM OF DIODES, TRANSISTORS AND IC's.



★ *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.*

■ SCHEMATIC DIAGRAM (DSP)



NOTICE (model)
(J)····· JAPANESE
(U)····· U.S.A
(C)····· CANADIAN
(R)····· GENERAL
(A)····· AUSTRALIAN
(B)····· BRITISH
(G)····· EUROPEAN
(T)····· CHINA
(L)····· SINGAPORE

CAPACITOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
◉	CERAMIC TUBULAR CAPACITOR
◎	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
①	MICA CAPACITOR
⊗	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

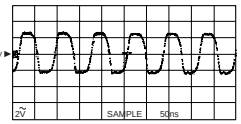
RESISTOR

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

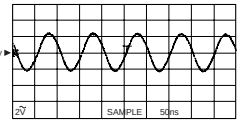
Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
k1		
k2	IC1	NJM2904M-T1 NJM2904S
k3		
k4	Q4-13	2SC3326(A/B) 2SC3326(B)

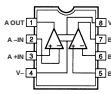
Point ⑤
Pin 13 of IC3
V : 2V/div H : 50nsec/div
AC range 1 : 1probe



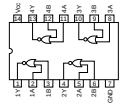
Point ⑥
Pin 13 of IC4
V : 2V/div H : 50nsec/div
AC range 1 : 1probe



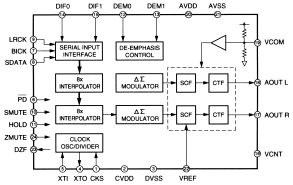
IC1 : NJM2904M
IC8~13 : uPC4570G2
Dual OP AMP



IC2 : HD74HC02FP
Quad 2 Input NOR

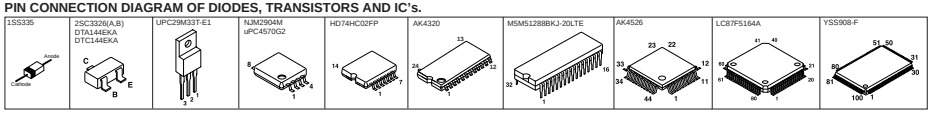


IC7 : AK4320
1 bit D/A Converter



• IC3~6, 14→See page 29~35, IC DATA

PIN CONNECTION DIAGRAM OF DIODES, TRANSISTORS AND IC's.



Conditions (RX-V595RDS)
- INPUT → CD
- VOLUME → minimum(−∞)
- IMPEDANCE
- SELECTOR → Upper
- PRO LOGIC → On

★ 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.

■ SCHEMATIC DIAGRAM (TUNER) U, C, R, T, A and L models

Each voltage given here represents that in the FM (98.1MHz STEREO) reception mode but the one in the parentheses ( ) is that in the AM (1080kHz, MAN'L) reception mode.

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

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

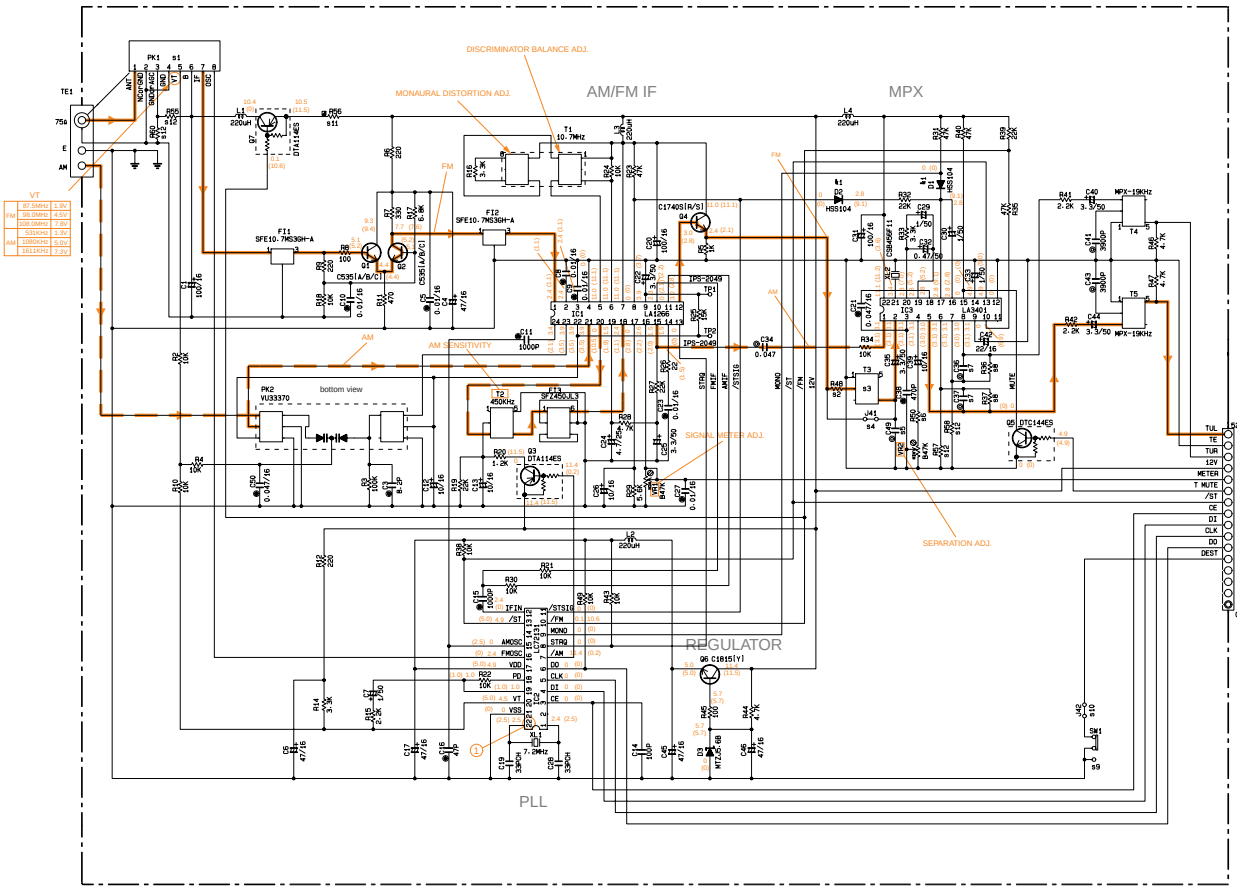
NOTICE (model)
(J)····· JAPANESE
(U)····· U. S. A
(C)····· CANADIAN
(R)····· GENERAL
(A)····· AUSTRALIAN
(B)····· BRITISH
(G)····· EUROPEAN
(T)····· CHINA
(L)····· SINGAPORE

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
▲1	D1-2	HSS104 1SS133 1SS176

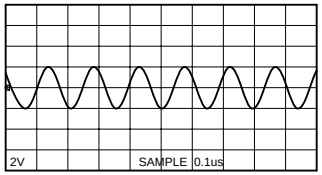
		U-C V251860	A-T V251870	A-L V251880
1	PK1	V290910	V290910	V271670
2	R48			4.7K
3	T3			XYA2 VT48680
4	J41	○	○	
5	C49	2200P UA95322	2200P UA95322	120P UA95212
6	R50	22K	22K	1K
7	C36-37	1000P UA95310	1000P UA95310	270P UA95227
8	R36-37	75K	75K	180K
9	SW1		V560260	
10	J42		○	
11	R56	100	100	47
12	R55-57.58.60			270K

○USED
NOT USED



Point ① (Pin22 of IC2)

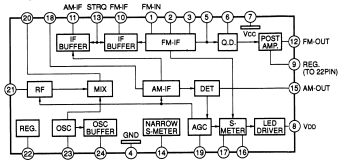
V : 2V/div H : 0.1µsec/div DC range 1 : 1 probe



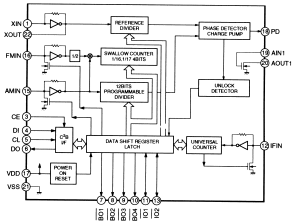
PIN CONNECTION DIAGRAM OF DIODES, TRANSISTORS AND IC's.

1SS133 1SS176 HSS104 MTZJ5.6B	2SC1740S(R,S) DTA114ES DTC144ES	2SC535(A,B,G) 2SC1815(Y)	LA3401 LC72131	LA1266
Anode Cathode				

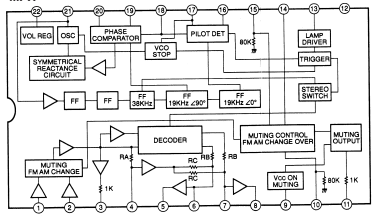
IC1 : LA1266
AM/FM IF



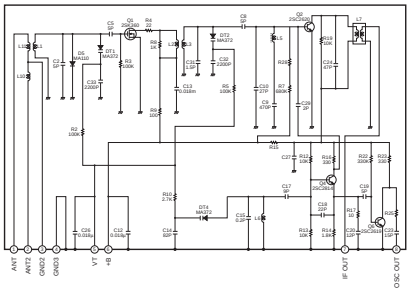
IC2 : LC72131
PLL Controller



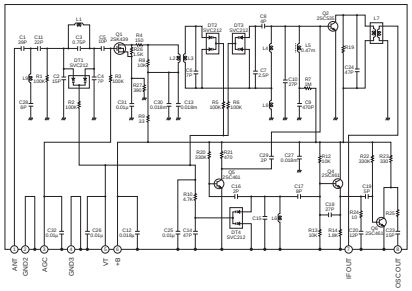
IC3 : LA3401
MPX



• **PK1 : ENV-172C8G1R (V2909100) U, C, R, T models**



• **PK1 : ENV-172A4G1 (V2716700) A, L models**



★ 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.

■ SCHEMATIC DIAGRAM (TUNER) B, G models

Each voltage given here represents that in the FM (98.1MHz STEREO) reception mode but the one in the parentheses ( ) is that in the AM (1080kHz, MAN'L) reception mode.

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	‡

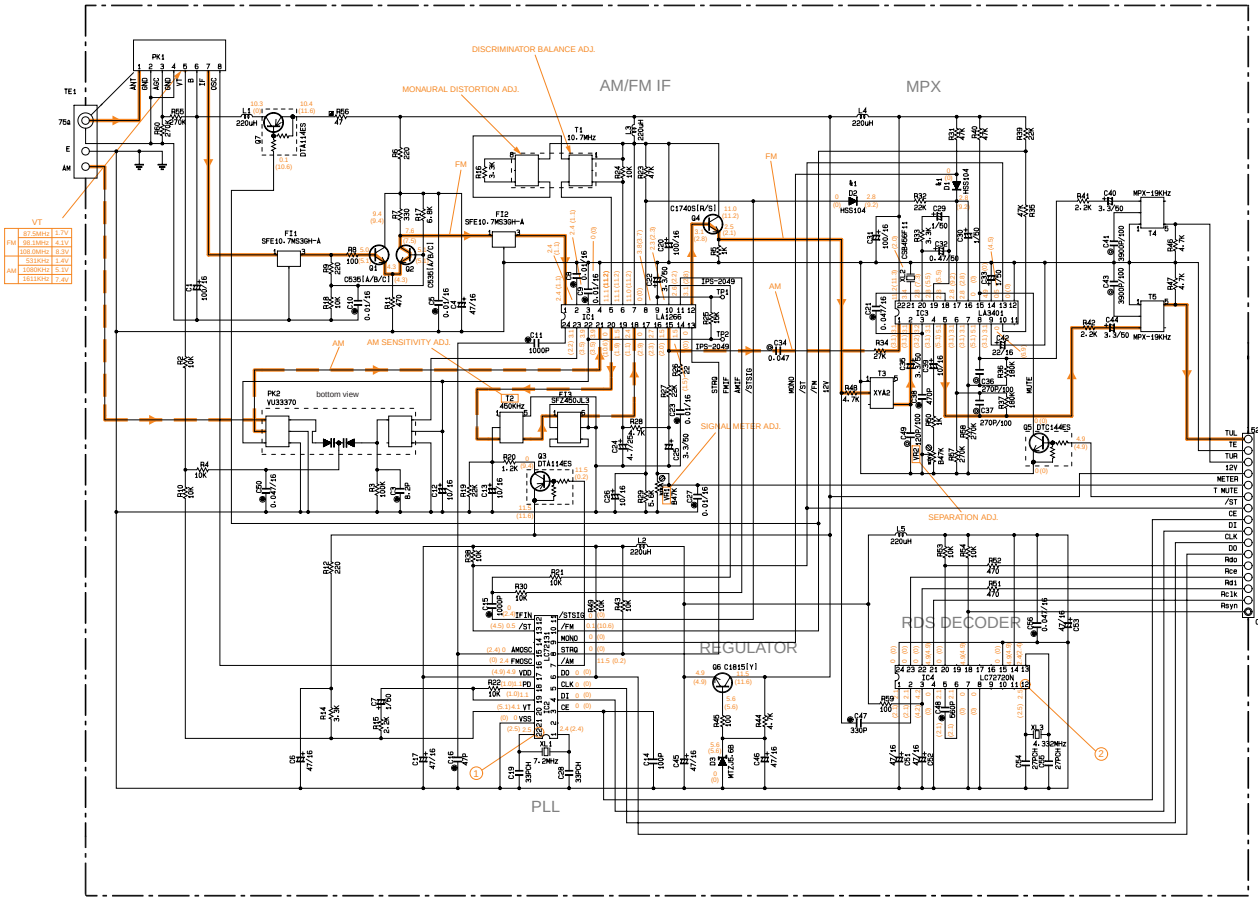
RESISTOR

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

NOTICE (mode1)
(J)..... JAPANESE
(U)..... U. S. A
(C)..... CANADIAN
(R)..... GENERAL
(A)..... AUSTRALIAN
(B)..... BRITISH
(G)..... EUROPEAN
(T)..... CHINA
(L)..... SINGAPORE

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
‡1	D1.2	HSS104
		1SS133
		1SS176

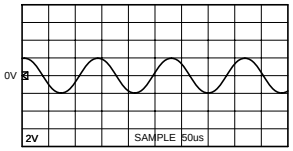


PIN CONNECTION DIAGRAM OF DIODES, TRANSISTORS AND IC's.

1SS133 1SS176 HSS104 MTJ5-6B	2SC1740S(R,S) DTA114ES DTC144ES	2SC535(A, B,G) 2SC1815(Y)	LA3401 LC72131	LA1266 LC72720N

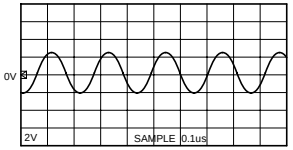
Point ① (Pin22 of IC2)

V : 2V/div H : 50nsec/div DC range 1 : 1 probe

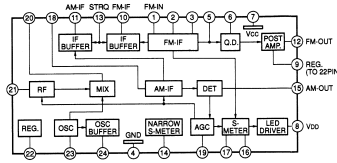


Point ② (Pin12 of IC4)

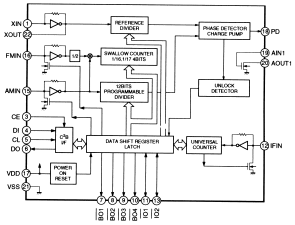
V : 2V/div H : 0.1µsec/div DC range 1 : 1 probe



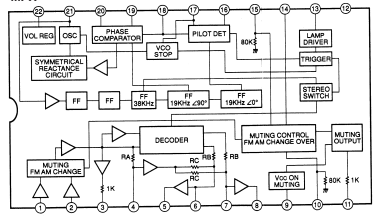
IC1 : LA1266
AM/FM IF



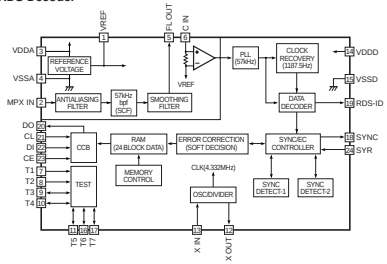
IC2 : LC72131
PLL Controller



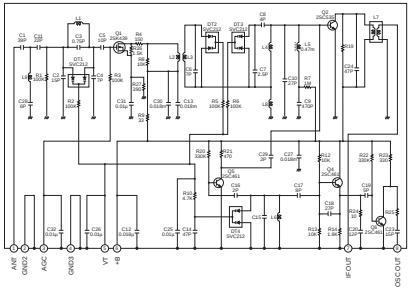
IC3 : LA3401
MPX



IC4 : LC72720N
RDS Decoder



• **PK1 : ENV-172A4G1 (V2716700)**



⋆ 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.