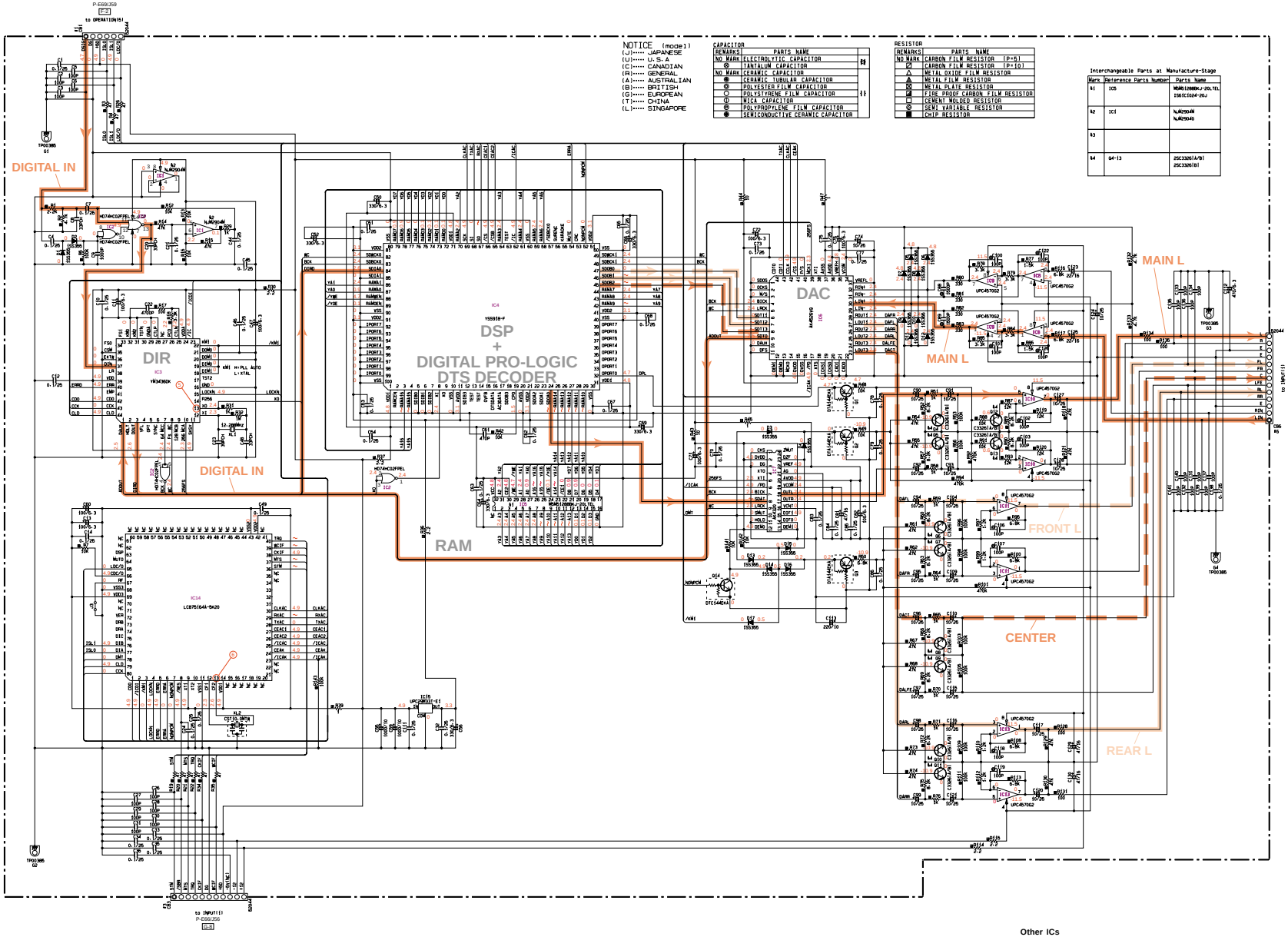
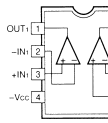
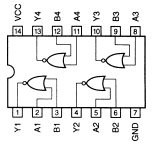
■ SCHEMATIC DIAGRAM (DSP)



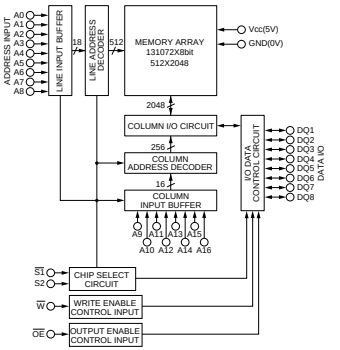
IC1 : NJM2904M
IC8~11, 13 : μPC4570G2
Dual OP Amp



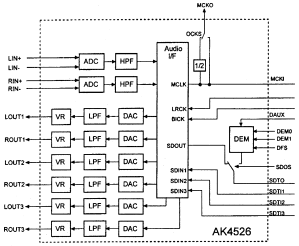
IC2 : HD74HC02FPEL
Quad 2 Input NOR



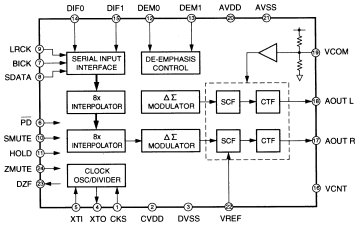
IC5 : M5M51288BKJ-20L
RAM



IC6 : AK4526
A/D



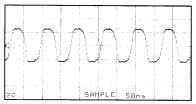
IC7 : AK4320
1 bit D/A Converter



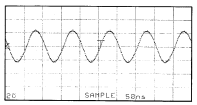
Other ICs

- IC3 : YM3436DK → See page E-27/J-23
- IC4 : YSS918-F → See page E-28/J-24
- IC14 : LC87F5164 → See page E-31/J-27

Point ⑤ (Pin13 of IC3)
V : 2V/div H : 50 nsec/div
DC range 1 : 1 probe



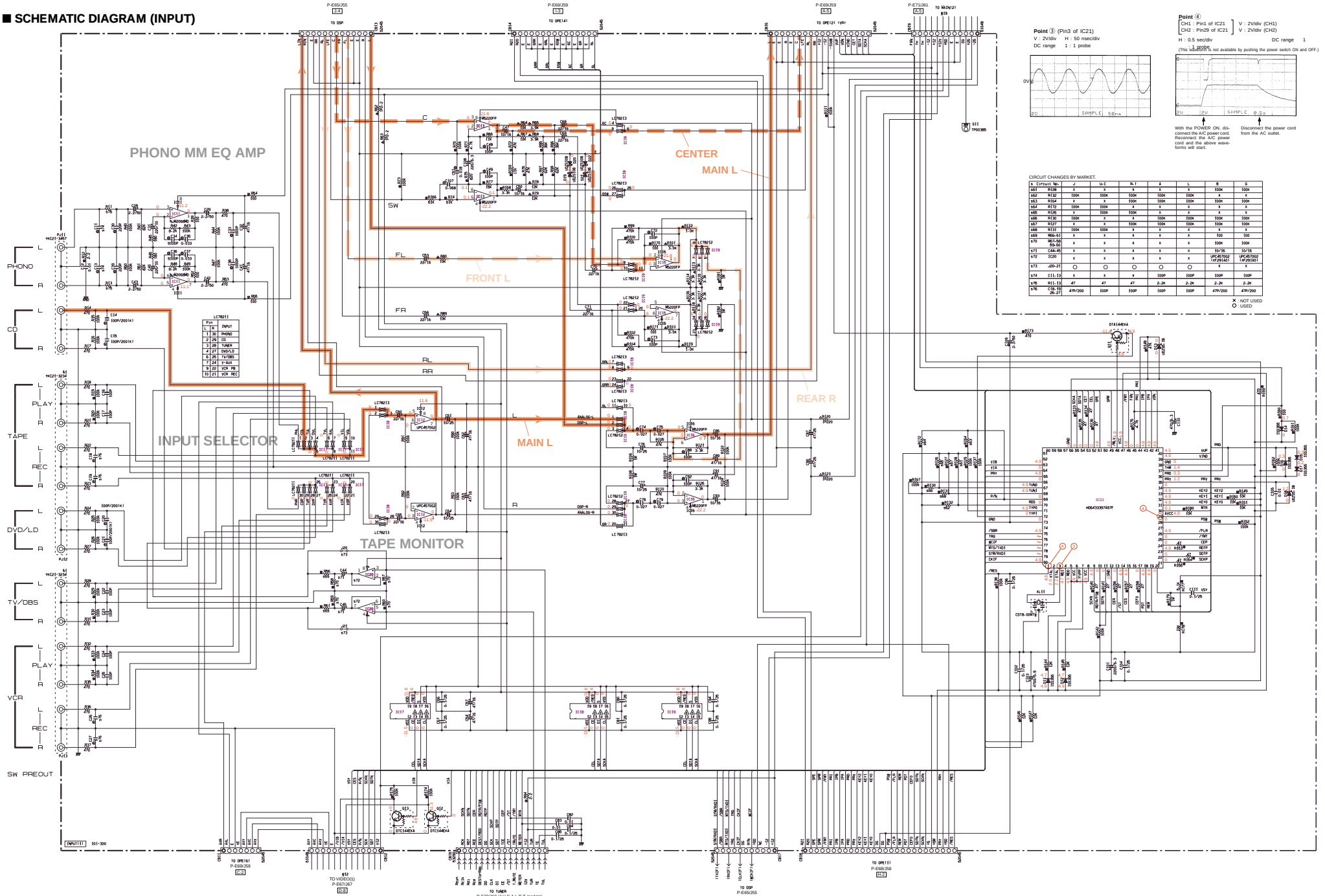
Point ⑥ (Pin13 of IC14)
V : 2V/div H : 50 nsec/div
DC range 1 : 1 probe



** All voltage are measured with a 10MΩ/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.*

DSP

■ SCHEMATIC DIAGRAM (INPUT)



b	Circuit No.	J	U-C	R-T	A	L	B	G
s61	R128	x	x	x	x	x	100K	100K
s62	R132	100K	100K	100K	100K	100K	x	x
s63	R164	x	x	100K	100K	100K	100K	100K
s64	R172	100K	100K	x	x	x	x	x
s65	R126	x	100K	100K	x	x	x	x
s66	R130	100K	x	x	100K	100K	100K	100K
s67	R127	x	x	100K	100K	100K	100K	100K
s68	R133	100K	100K	x	x	x	x	x
s69	R66-61	x	x	x	x	x	100	100
s70	R67-56/ R9-60	x	x	x	x	x	100K	100K
s71	C44-45	x	x	x	x	x	10/16	10/16
s72	IC20	x	x	x	x	x	UPC4570G2 (#2910A)	UPC4570G2 (#2910A)
s73	J20-21	○	○	○	○	○	x	x
s74	C11-13	x	x	x	100P	100P	100P	100P
s75	R11-13	47	47	47	2.2K	2.2K	2.2K	2.2K
s76	C18-19/ 25-27	470/200	100P	100P	100P	100P	470/200	470/200

* All voltage are measured with a 10MΩ/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.

INPUT

■ SCHEMATIC DIAGRAM (INPUT & VIDEO)

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

CIRCUIT CHANGES BY MARKET.

No	Circuit No.	J	U-C	A-T	A	L	B	G
1	D822	x	x	D2396(J/K)	x	x	x	x
2	J821	0	0	x	0	0	0	0
3	C821	x	x	1000P	x	x	x	x
4	D823	x	x	HZS12B2	x	x	x	x
5	RB22-823	x	x	5.6K	x	x	x	x
6	C825-828	x	x	100/35	x	x	x	x
7	RB24	x	1/2W2.2M	x	x	x	x	x
8	T821	KC542 KS597	KC583 K0486	KT331 KT341	KC584 K0486	KC584 K0486	KC584 K0486	KC584 K0486
9	TE821	VU54310	VU54310	VU54310	VT91500	VU54340	VU54330	VU54340
10	J822	0	0	0	0	0	0	x
11	C8827-828	VP20650	VP20650	VP20650	x	x	x	x
12	F823	8A125V	8A125V	8A125V	x	x	x	x
13	C8820-825	x	x	x	x	x	x	VP20650
14	F821	x	x	x	x	x	x	T2.5AL250V
15	C8824-826	x	x	x	VP20650	VP20650	VP20650	VP20650
16	F822	x	x	x	T4.0AL250V	T4.0AL250V	T4.0AL250V	T4.0AL250V
17	C823	330/25	470/25	330/25	330/25	330/25	330/25	330/25
18								
19	SW851	x	x	V496180	x	x	x	x
20	C8851-852	x	x	VP20650	x	x	x	x
21	F851	x	x	T4.0AL250V	x	x	x	x
22	M853	x	x	MM3240	x	x	x	x
23	M852	x	x	MM3240	x	x	x	x
24	M851	x	x	MM4240	x	x	x	x
25	M856	x	x	MM6240	x	x	x	x
26	M855	x	x	MM3240	x	x	x	x
27	M854	x	x	MM9240	x	x	x	x
28	RYB21	V271230 V007340 V285040	V269530	V271230 V007340 V285040	V271230 V007340 V285040	V271230 V007340 V285040	V271230 V007340 V285040	V271230 V007340 V285040
31	C760-762	x	x	x	0.01 UA95410	0.01 UA95410	0.01 UA95410	0.01 UA95410
32	C764-766	x	x	x	0.022 UA95422	0.022 UA95422	0.022 UA95422	0.022 UA95422
33	C775-779	x	x	x	0.012 UA95412	0.012 UA95412	0.012 UA95412	0.012 UA95412
34	TE701	V250500	V250500	V250500	V250500	V250510	V250510	V250510
35	IL401	YY94980	YY94980	YY94980	YY94990	YY94990	YY94990	YY94990

× : NOT USED
○ : USED

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
k1	D402-409.709.710	HSS104 1SS133 1SS176
k2	IC401	TC4053BP UPD4053BC
k3	Q401.407.724	2SC1740S(R/S) 2SC2603(E/F) 2SC3311A(Q/R/S)
k4	Q414	2SA933S(Q/R) 2SA1116(E/F) 2SA1309A(Q/R/S)
k5	Q402	2SD1915P(S/T) 2SC2878(A/B)
k11	D821	HSS104 1SS133 1SS176
k12	Q821	2SC1740S(R/S) 2SC2603(E/F) 2SC3311A(Q/R/S)

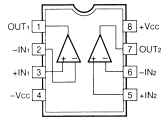
RESISTOR

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

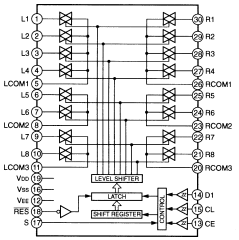
CAPACITOR

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

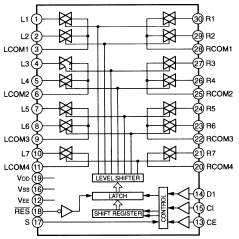
IC11 : NJM2068MD
IC12, 20 : μPC4570G2
IC13, 15, 16 : M5220FP
Dual OP Amp



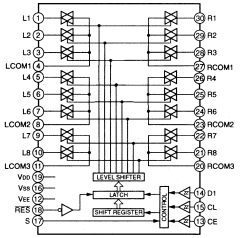
IC17 : LC78211
Analog Function Switch



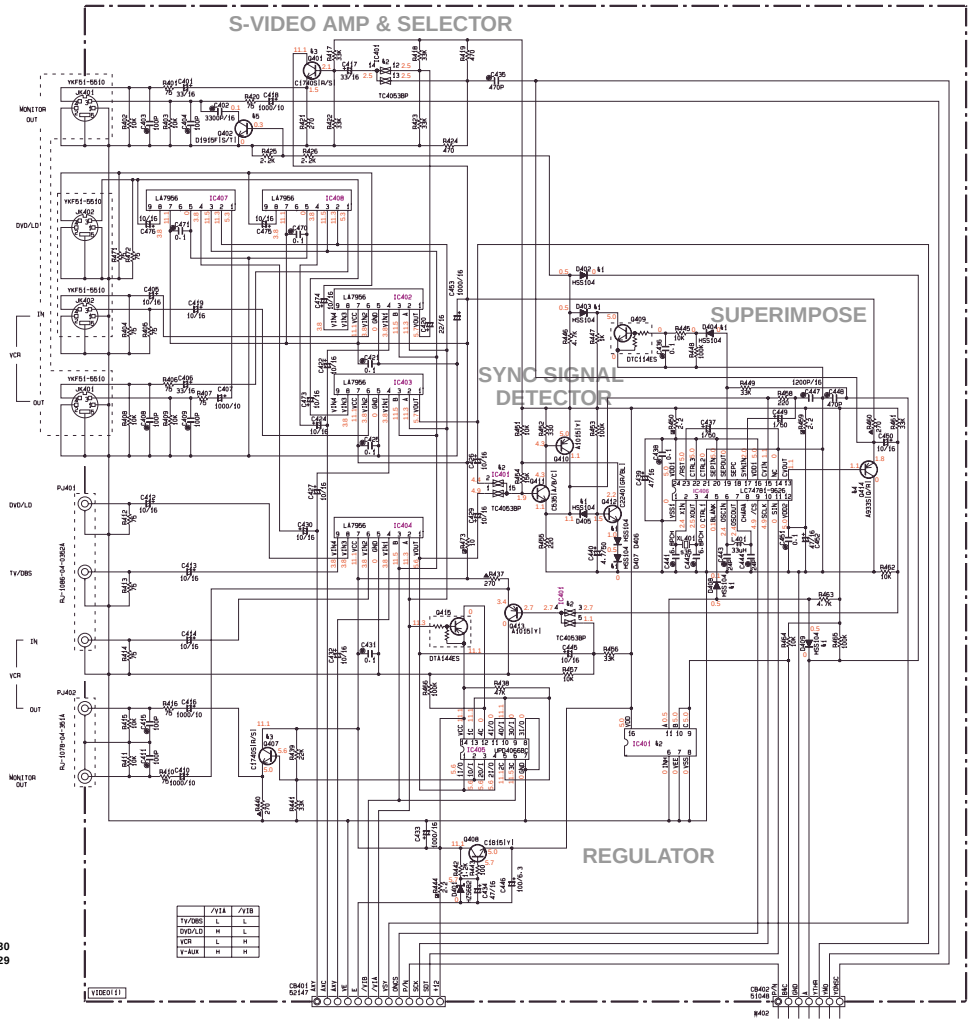
IC18 : LC78213
Analog Function Switch

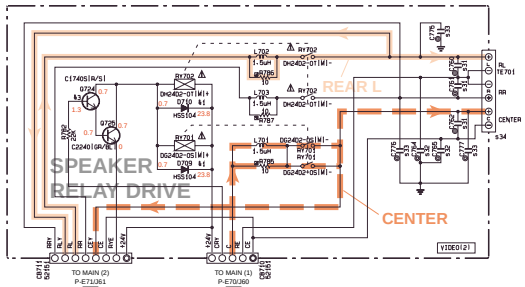


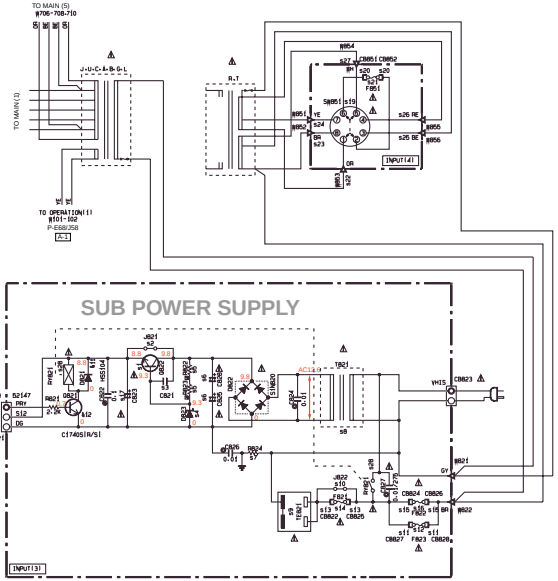
IC19 : LC78212
Analog Function Switch



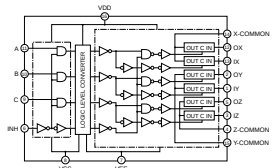
Other ICs
● **IC21 : HD6433397A97F** → See page E-36/J-30
● **IC406 : LC74781-9626** → See page E-35/J-29



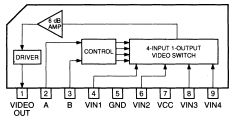




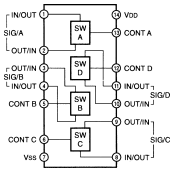
IC401 : TC4053BP
Triple 2-Channel Analog Multiplexers/ Demultiplexers



IC402~404, 407, 408 : LA7956
Video Switch



IC405 : μPD4066BC
Quad Analog Switch/Multiplexer



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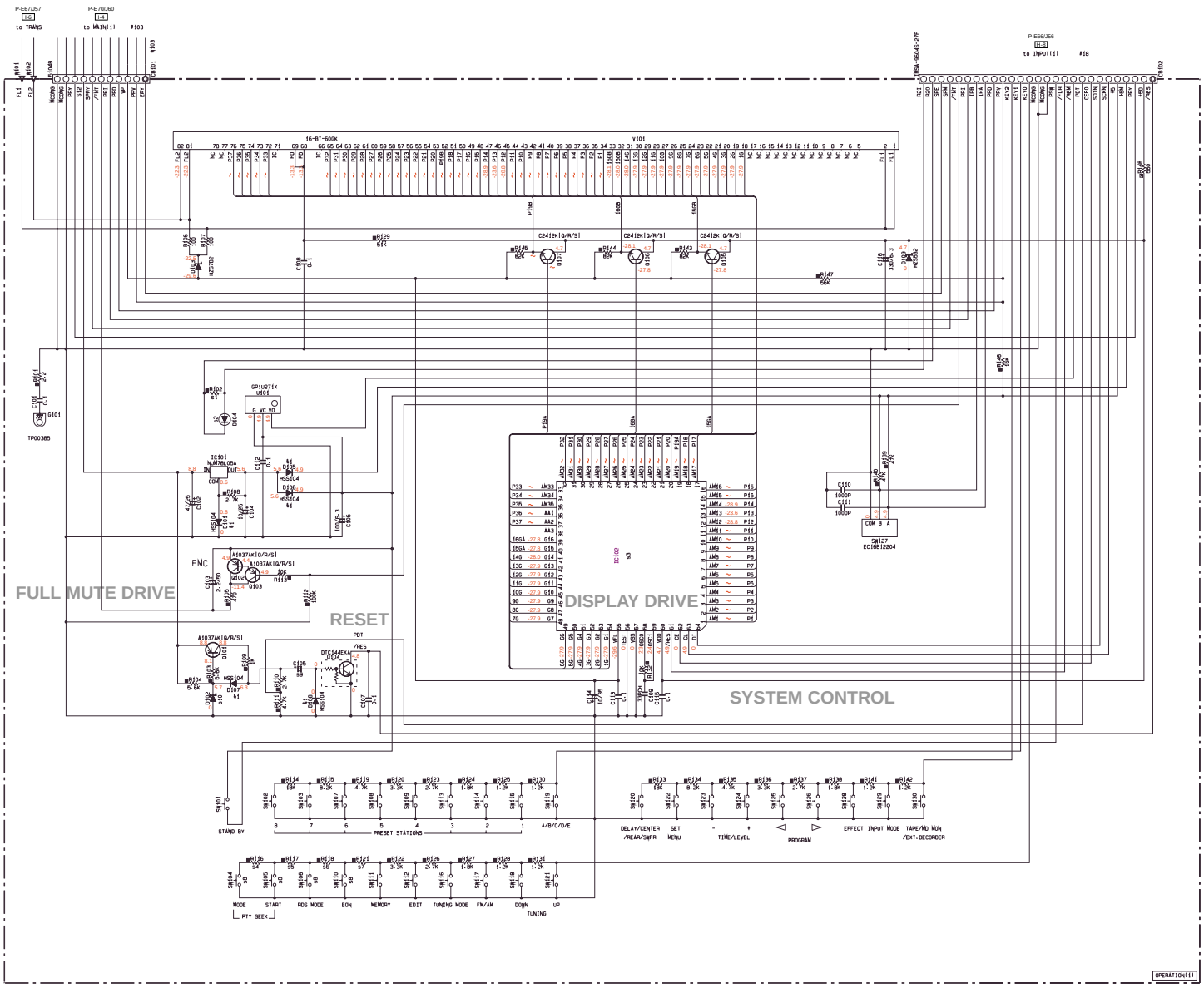
** Schematic diagram is subject to change without notice.*

INPUT & VIDEO

■ SCHEMATIC DIAGRAM (OPERATION)



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	
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

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

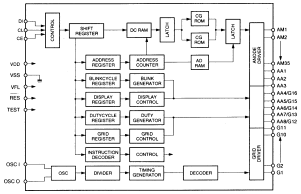
Mark	Reference Parts Number	Parts Name
▲1	D101-D105-108	HSS104 1SS133 1SS176
▲2		
▲3		

CIRCUIT CHANGES BY MARKET:

	MODEL No.	DSP-R795a/RX-V795a/RDSM,/HTR-5170ML			
s	Circuit No.	J-L	U-C-A	R-T	B-G
1	R102	×	10K	×	×
2	D104	×	VVG2610	×	×
3	IC102	XR1B840	XR1B840	XR1B840	XY166A0
4	R116	×	×	×	47K
5	R117	×	×	×	18K
6	R118	×	×	×	8.2K
7	R121	×	×	×	4.7K
8	SW104-106-110	×	×	×	VG39290
9	C105	1/50	1/50	2.2/50	1/50
10	D102	HZ56B2	HZ56B2	HZ56C2	HZ56B2

× : NOT USED

IC102 : LC75710NE
FL Display Driver



Other IC
● IC102 : LC75712E → See page E-35

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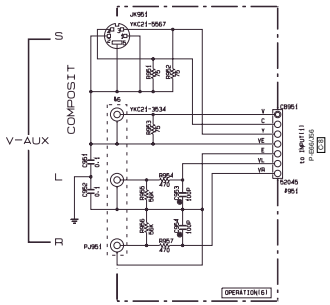
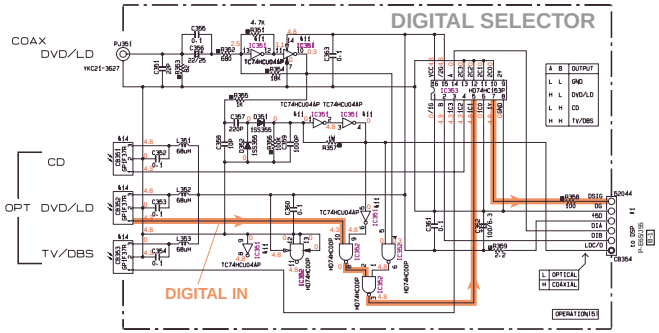
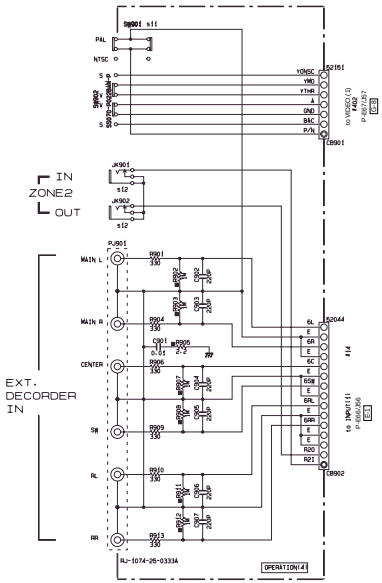
** Schematic diagram is subject to change without notice.*

OPERATION

■ SCHEMATIC DIAGRAM (OPERATION)







CAPACITOR

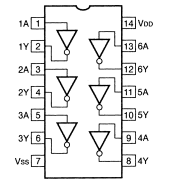
REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
	CERAMIC TUBULAR CAPACITOR
	POLYESTER FILM CAPACITOR
	POLYSTYRENE FILM CAPACITOR
	MICA CAPACITOR
	POLYPROPYLENE FILM CAPACITOR
	SEMICONDUCTIVE CERAMIC CAPACITOR

RESISTOR

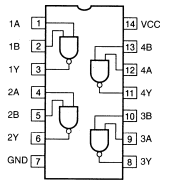
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
	CARBON FILM RESISTOR (P=10)
	METAL OXIDE FILM RESISTOR
	METAL FILM RESISTOR
	METAL PLATE RESISTOR
	FIRE PROOF CARBON FILM RESISTOR
	CEMENT MOLDED RESISTOR
	SEMI VARIABLE RESISTOR
	CHIP RESISTOR

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

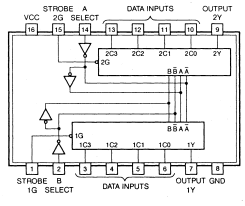
IC351 : TC74HCU04AP
Hex Inverters



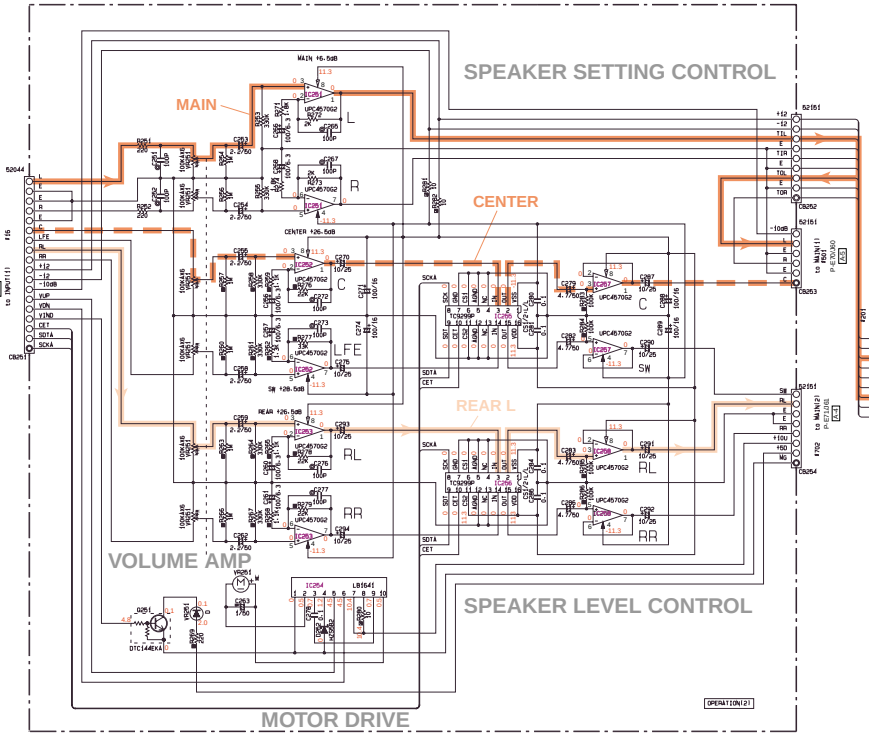
IC352 : HD74HC00P
Quadruple 2-input Positive NAND Gates

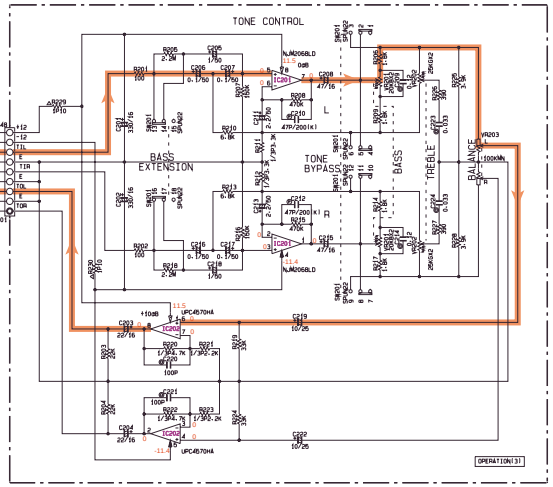


IC353 : HD74HC153P
Dual 4 to 1 Data Selectors



INPUTS		OUTPUT
SELECT	STROBE	
B A	G	Y
X X	H	L
L L	L	C0
L H	L	C1
H L	L	C2
H H	L	C3





Interchangeable Parts at Manufacture-Stage

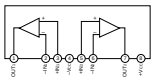
Mark	Reference Parts Number	Parts Name
&1	IC351	TC74HCU04AP SN74HCU04N HC74HCU04N
&2		
&3		
&4	CB351-353	DP3F37N TDR4178A
&5		

CIRCUIT CHANGES BY MARKET

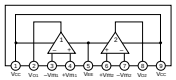
	MODEL No.	DSP-R795a/RX-V795a/RDSL/HTR-5170L			
s	Circuit No.	J-L	U-C-A	R-T	B-G
11	SW01	X	X	V560260	X
12	JK901-JK902	X	VJ72080	X	X
13					
14					
15					

X : NOT USED

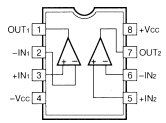
IC201 : NJM2068LD
Dual OP Amp



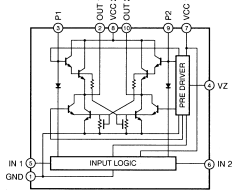
IC202 : μPC4570HA
Dual OP-Amp



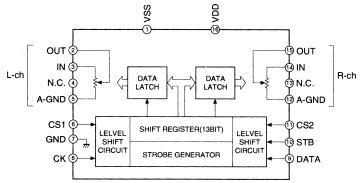
IC251–253, 257, 258 : μPC4570G2
Dual OP-Amp



IC254 : LB1641
Motor Driver



IC255, 256 : TC9299P
Electric Controlled Volume

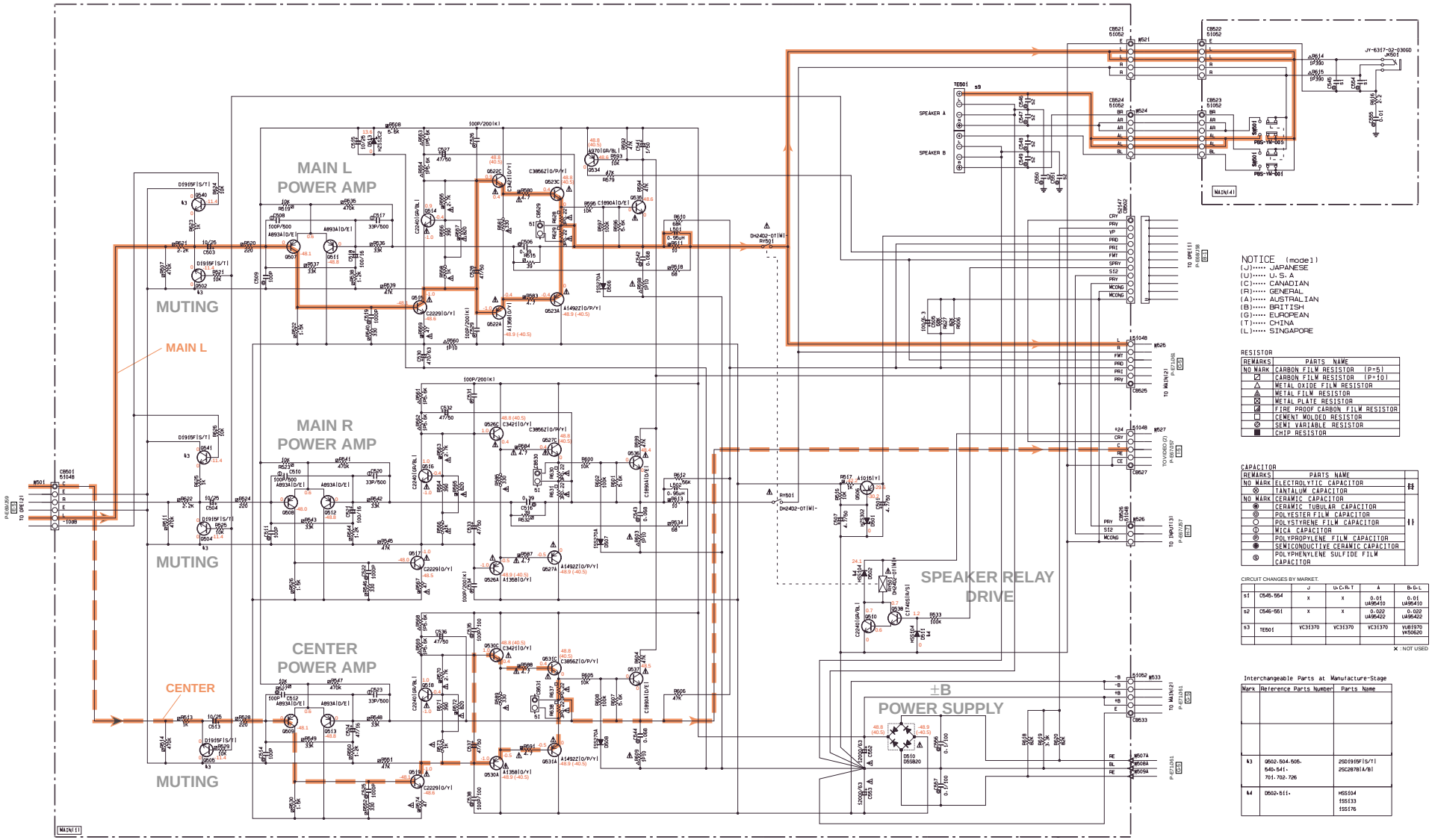


** All voltage are measured with a 10MΩ/DC electric volt meter.*
** Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.*
** Schematic diagram is subject to change without notice.*

OPERATION

■ SCHEMATIC DIAGRAM (MAIN)

Each voltage given here represents that in the top side of IMPEDANCE SELECTOR, but the one in the parentheses ( ) is that in the bottom side.



NOTICE (model)
(J)····· JAPANESE
(U)····· U.S.A
(C)····· CANADIAN
(R)····· GENERAL
(A)····· AUSTRALIAN
(B)····· BRITISH
(E)····· 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

CIRCUIT CHANGES BY MARKET.

		J	U.C.A.T	A	B.G.L
s1	C545-554	x	x	0.01 UA95410	0.01 UA95410
s2	C546-551	x	x	0.022 UA95422	0.022 UA95422
s3	TE501	VC31370	VC31370	VC31370	VUB1970 WX50620

× : NOT USED

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
‼3	Q502-504.506-540-541-701.702.726	2SD1915FS/T1 2SC2878LA/B1
‼4	D502-511.	HSS104 1SS133 1SS176

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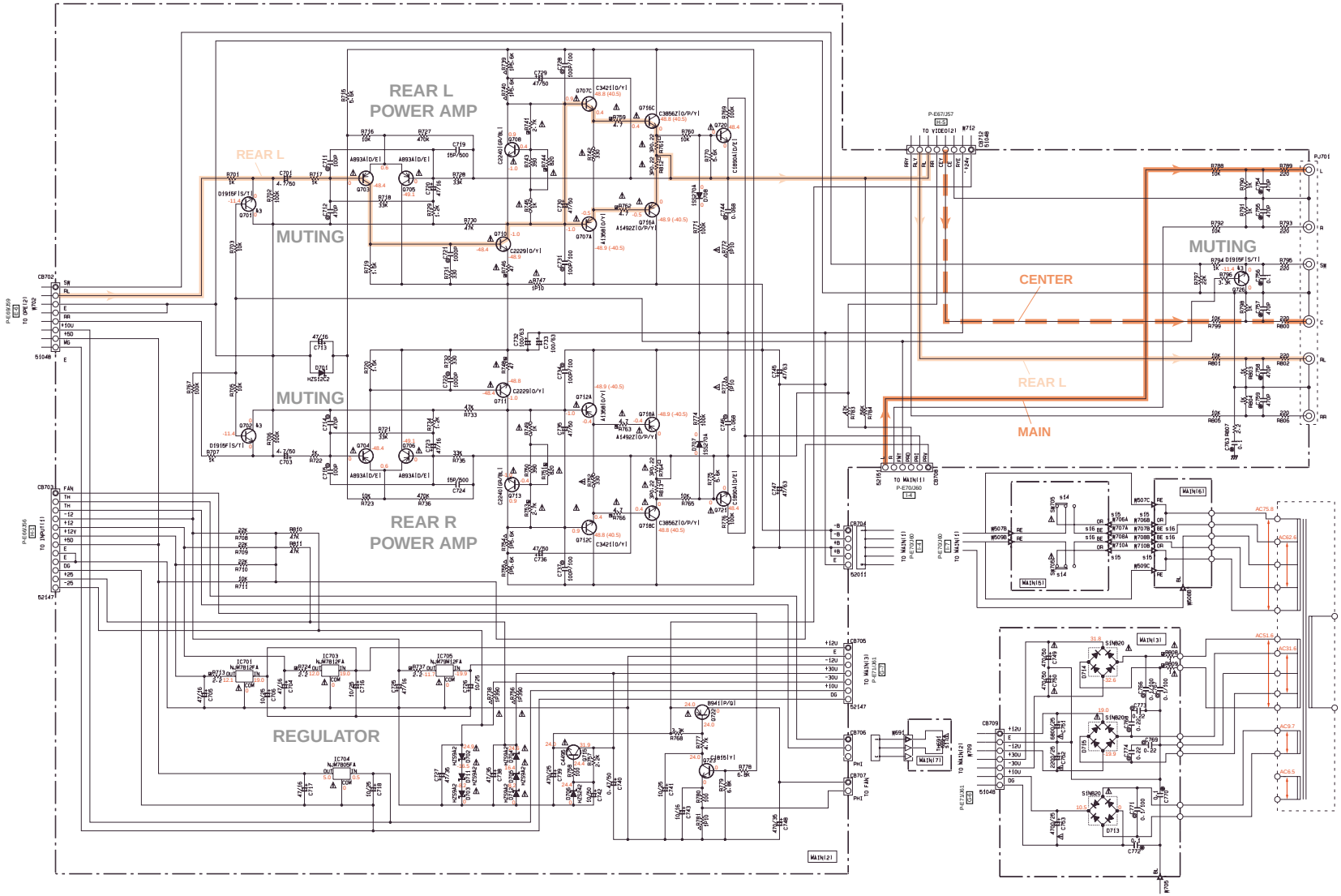
** Schematic diagram is subject to change without notice.*

MAIN

■ SCHEMATIC DIAGRAM (MAIN)

Each voltage given here represents that in the top side of IMPEDANCE SELECTOR, but the one in the parentheses ( ) is that in the bottom side.



NOTICE (mode1)
(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

CIRCUIT CHANGES BY MARKET.

		J	U·C·R·T	A	L·B·G
s11	TH691	VM84220	VM84230	VM84230	VM84230
s12					
s13					
s14	SW705	x	SL13B-022-AMC1 VZ36110	SL13B-022-AMC1 VZ36110	SL13B-022-AMC1 VZ36110
s15	W706-710	x	WH23016	WH23016	WH23016
s16	W707-708	x	WH26016	WH26016	WH26016
s20					
s21					
s22					
s23					

× : NOT USED

* All voltage are measured with a 10MΩ/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.

MAIN

■ SCHEMATIC DIAGRAM (TUNER)

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
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(C)····· CANADIAN
(R)····· GENERAL
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(B)····· BRITISH
(G)····· EUROPEAN
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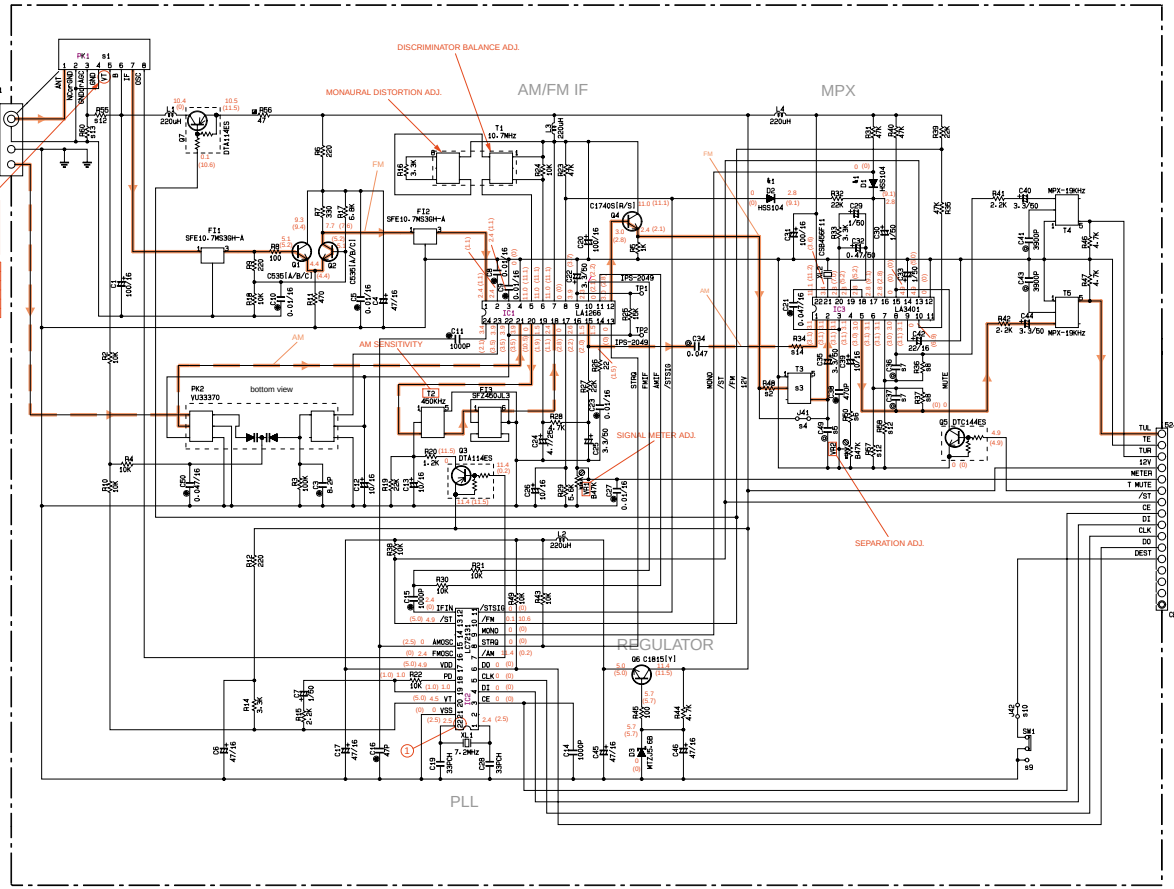
Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
k1	D1-2	HSS104 1SS133 1SS176

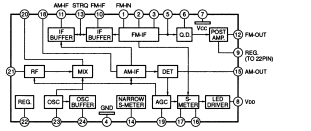
CIRCUIT CHANGES BY MARKET.

		J V251850	L+C V251860	R-T V251870	A-B-G-L V251880
1	PK1	V290900	V290910	V290910	V271670
2	R48				4.7K
3	T3				XYA2 YT48680
4	J41	○	○	○	
5	C49	2200P UA95322	2200P UA95322	2200P UA95322	120P UA95212
6	R50	22K	22K	22K	1K
7	C36-37	680P UA95268	1000P UA95310	1000P UA95310	270P UA95227
8	R36-37	75K	75K	75K	180K
9	SW1			V560260	
10	J42			○	
11					
12	R55-57-58				270K
13	R60				180K
14	R34	10K	10K	10K	27K

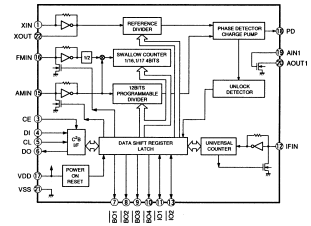
× : NOT USED
○ : USED



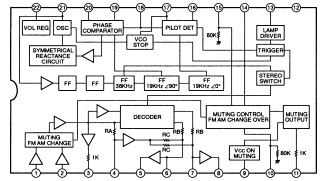
IC1 : LA1266
AM/FM IF



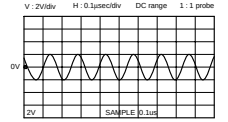
IC2 : LC72131
PLL Controller



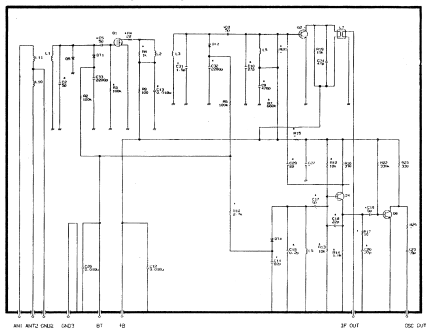
IC3 : LA3401
MPX



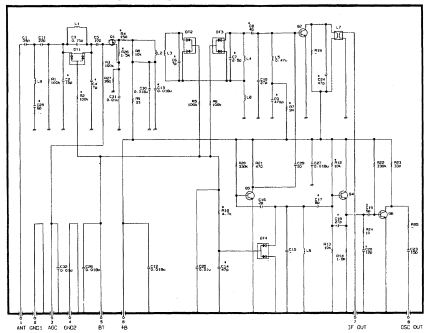
Point ① (Pin22 of IC2)



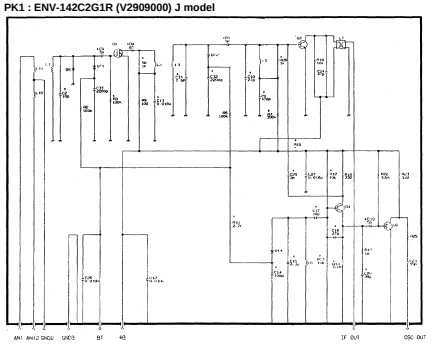
● PK1 : ENV-172C8G1R (V2909100) U, C, R, T models



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



● PK1 : ENV-142C2G1R (V2909000) J model



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** Schematic diagram is subject to change without notice.*

TUNER

■ SCHEMATIC DIAGRAM (TUNER)

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
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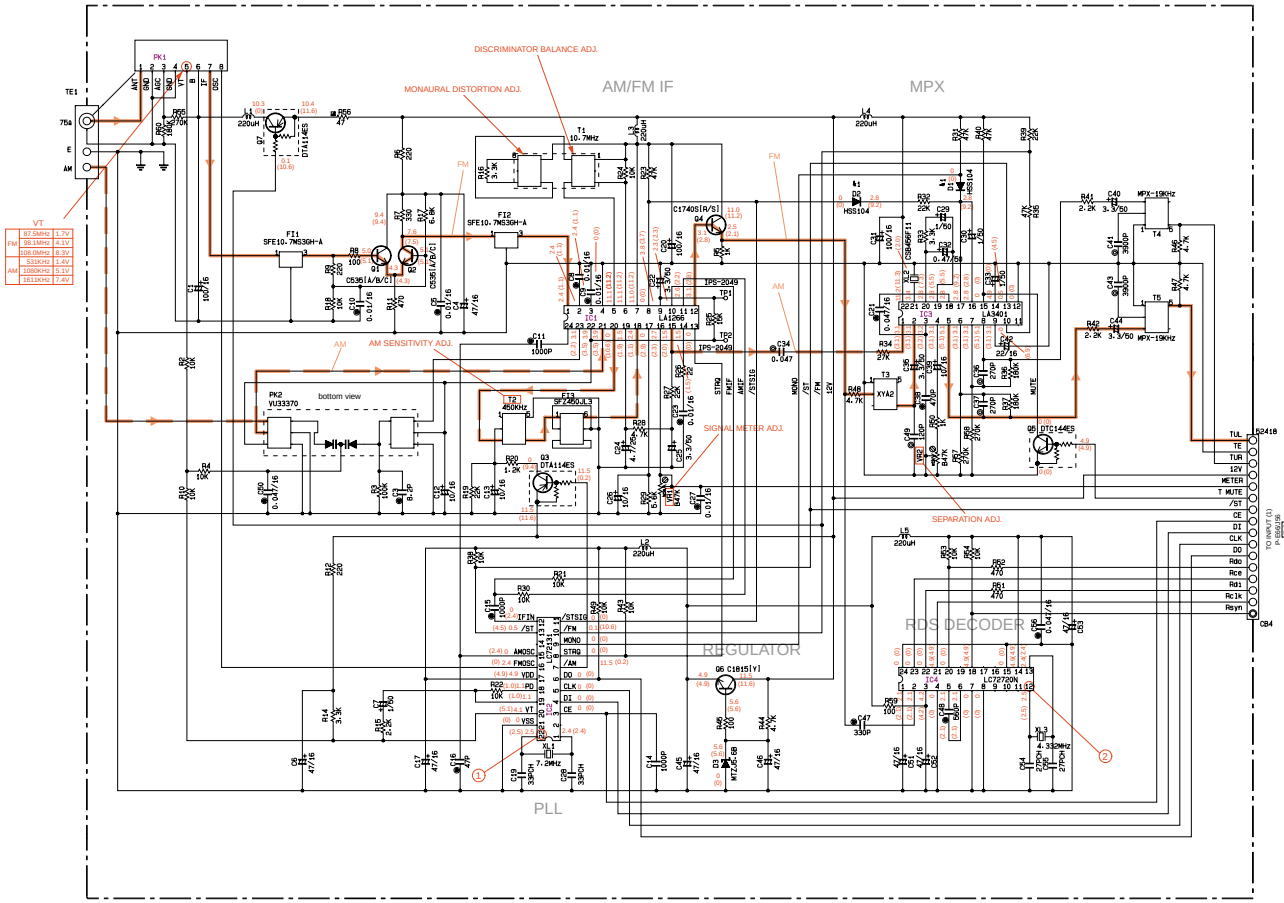
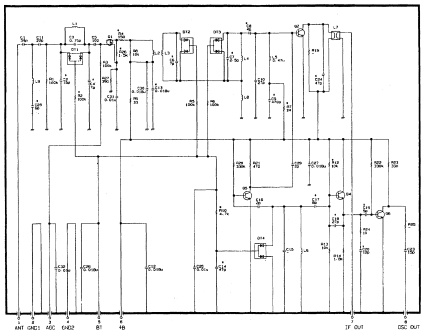
(L)····· SINGAPORE

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
⚠1	D1,2	HSS104 1SS133 1SS176

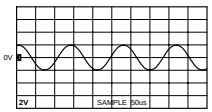


● PK1 : ENV-172A4G1 (V2716700)



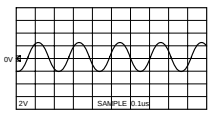
Point ① (Pin22 of IC2)

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

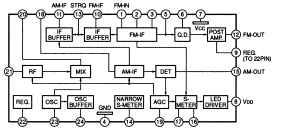


Point ② (Pin12 of IC4)

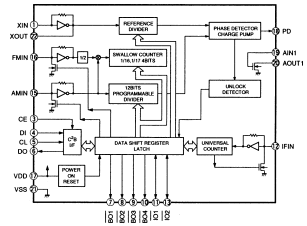
V : 2V/div H : 0.1μsec/div DC range 1 : 1 probe



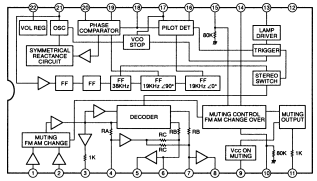
IC1 : LA1266
AM/FM IF



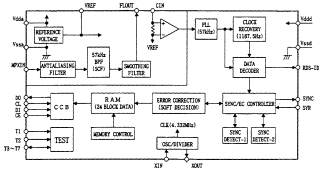
IC2 : LC72131
PLL Controller



IC3 : LA3401
MPX



IC4 : LC72720N
RDS Decoder & Controller



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* Schematic diagram is subject to change without notice.

TUNER