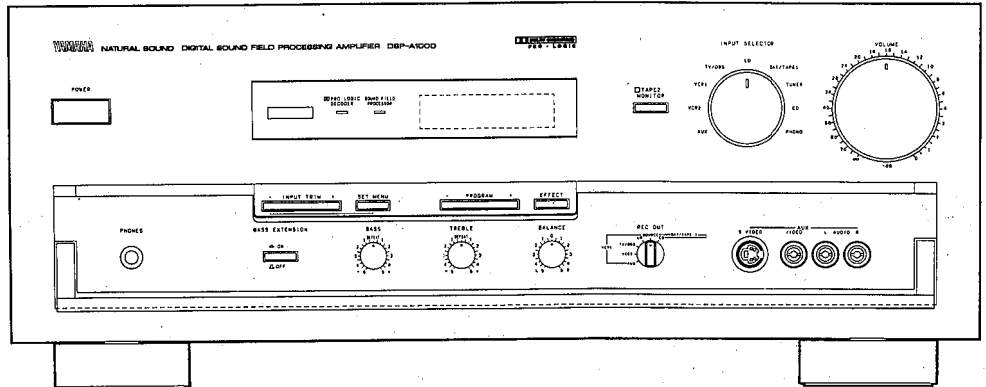
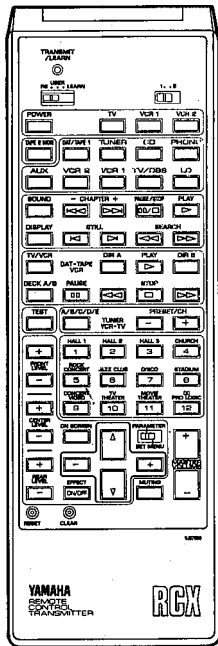


DIGITAL SOUND FIELD PROCESSING AMPLIFIER

DSP-A1000

SERVICE MANUAL



DSP-A1000

IMPORTANT NOTICE

This manual has been provided for the use of authorized YAMAHA Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically YAMAHA Products, are already known and understood by the users, and have therefore not been restated.

WARNING: Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components and failure of the product to perform as specified. For these reasons, we advise all YAMAHA product owners that all service required should be performed by an authorized YAMAHA Retailer or the appointed service representative.

IMPORTANT: The presentation or sale of this manual to any individual or firm does not constitute authorization, certification or recognition of any applicable technical capabilities, or establish a principle-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research, engineering, and service departments of YAMAHA are continually striving to improve YAMAHA products. Modifications are, therefore, inevitable and specifications are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING: Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss).

IMPORTANT: Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

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100384

YAMAHA

YAMAHA CORPORATION
P.O. Box 1, Hamamatsu, Japan

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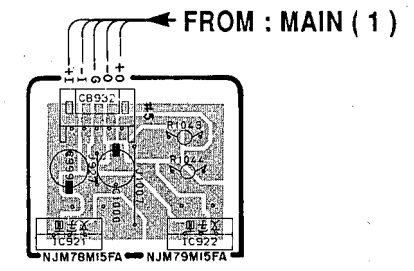
PRINTED CIRCUIT BOARD (Foil side)

Note) 文字面 : Component side

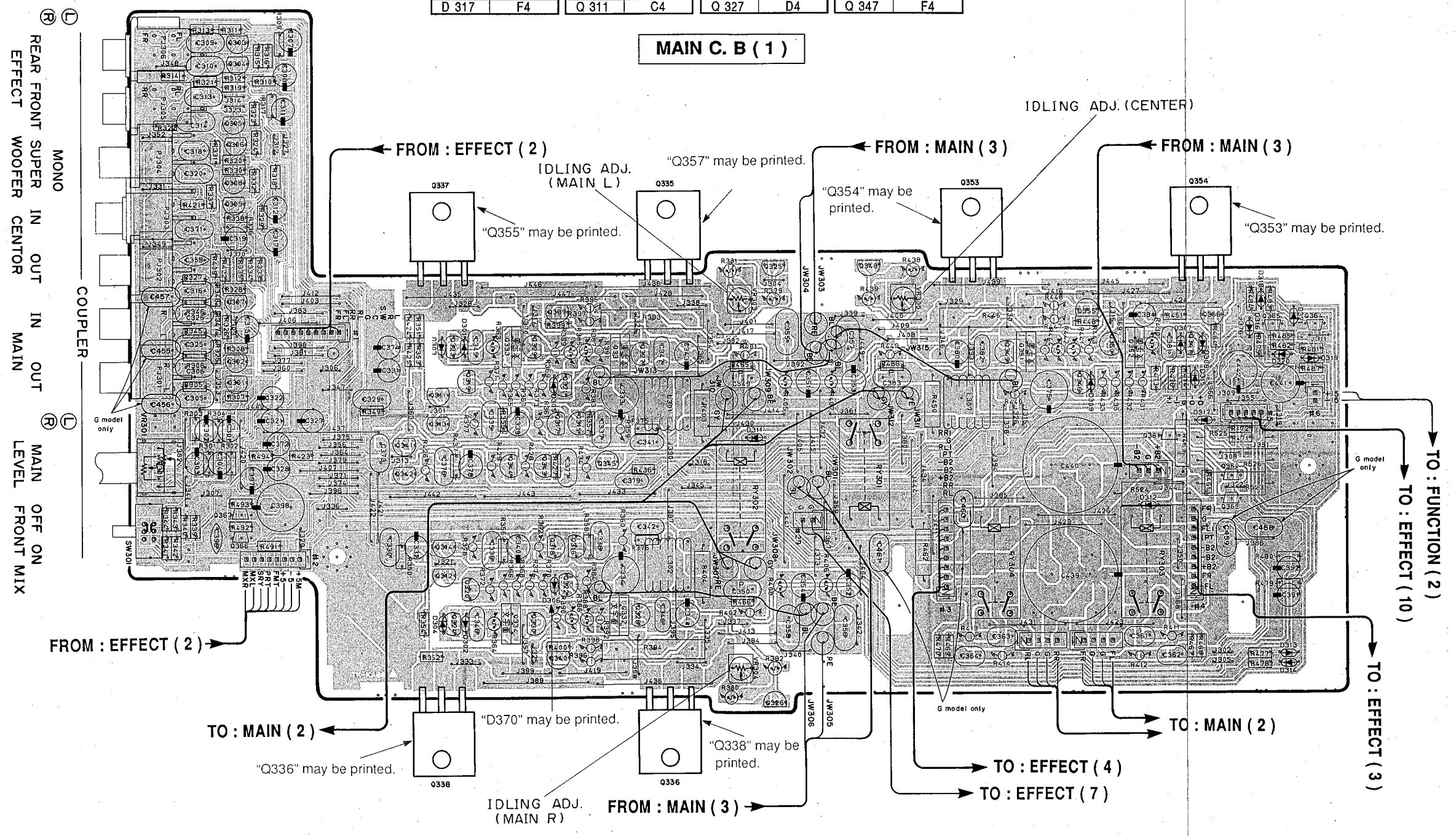
● Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D 301	C4	D 318	G3	Q 312	C5	Q 328	D5	Q 348	E3
D 302	C5	D 319	G4	Q 313	C4	Q 329	C4	Q 349	E3
D 303	C4	D 320	G4	Q 314	C4	Q 330	C5	Q 350	F4
D 304	C5	D 321	G4	Q 315	D4	Q 331	D4	Q 351	E4
D 305	C4	IC921	F2	Q 316	D4	Q 332	D5	Q 352	F4
D 306	C5	IC922	G2	Q 317	C4	Q 333	C4	Q 355	F4
D 307	F4	Q 301	B4	Q 318	C4	Q 334	C5	Q 356	F4
D 308	F4	Q 302	B4	Q 319	C4	Q 339	C3	Q 361	F4
D 309	F4	Q 303	B2	Q 320	C5	Q 340	C5	Q 362	F4
D 311	D4	Q 304	B2	Q 321	D4	Q 341	C4	Q 363	F4
D 312	F4	Q 305	B3	Q 322	D5	Q 342	C4	Q 364	G4
D 313	G5	Q 306	B3	Q 323	C4	Q 343	C4	Q 365	G4
D 314	G5	Q 307	B3	Q 324	C5	Q 344	C4	Q 366	B4
D 315	F4	Q 308	B3	Q 325	D3	Q 345	D4	Q 367	B4
D 316	F4	Q 309	B3	Q 326	D5	Q 346	F4		
D 317	F4	Q 311	C4	Q 327	D4	Q 347	F4		

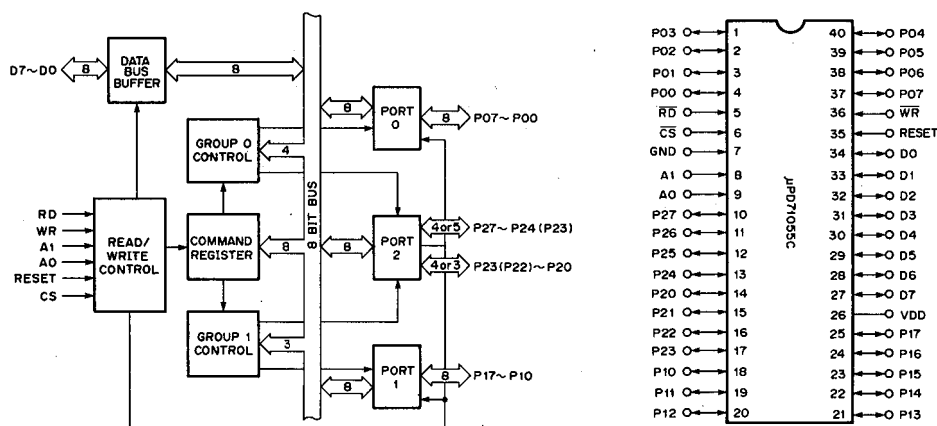
EFFECT C. B (10)



MAIN C. B (1)



IC41 : μ PD71055C or MSM82C55A-2RS
 Programmable Peripheral Interface



Pin No.	Pin Name	I/O	Function
1	P03	O	Turn Left Input Selector
2	P02	O	Turn Right Input Selector
3	P01	O	Vol. Down
4	P00	O	Vol. Up
5	RD	—	Read
6	CS	—	Chip select
7	GND	—	Port select
8	A1	—	
9	A0	—	
10	P27	O	CESR chip enable for LC7823
11	P26	O	CES chip select for M50455
12	P25	O	WCK word clock for YSS203
13	P24	O	CRS chip select for YM3413
14	P20	O	GED center GEQ data
15	P21	O	GEC center GEQ clock
16	P22	O	CEFR chip enable front/rear effect VOL
17	P23	O	CEFR chip enable center/super woofer VOL
18	P10	I	SW0 input selector data input
19	P11	I	SW1 input selector data input
20	P12	I	SW2 input selector data input
21	P13	I	SW3 input selector data input
22	P14	I	SW4 input selector data input
23	P15	I	POS input selector position input
24	P16	I	P/N Pal/NTSC determination
25	P17	I	HPI Headphone input status
26	VDD	—	+5V
27	D7	I/O	Data bus
28	D6	I/O	
29	D5	I/O	
30	D4	I/O	
31	D3	I/O	
32	D2	I/O	
33	D1	I/O	
34	D0	I/O	
35	RESET	—	Reset
36	WR	—	Write
37	P07	O	Speaker relay
38	P06	O	Surround signal passage selector.
39	P05	O	
40	P04	O	

DSP-A1000

Ref. NO.	PART NO.	Description	部 品 名		Remarks	Markets	ランク
	Vi843200	ELECTROLYTIC CAP	22uF	25V	ケミコン	C745,746	
	Vi844500	ELECTROLYTIC CAP	0.1uF	50V	ケミコン	C649,650,653,654,663,664,667,668,671,673,679,691	
	Vi844700	ELECTROLYTIC CAP	0.33uF	50V	ケミコン	C677	
	Vi844900	ELECTROLYTIC CAP	1uF	50V	ケミコン	C605,606,639,641,642,655,656,675	
	Vi845000	ELECTROLYTIC CAP	2.2uF	50V	ケミコン	C701,702,718	
	FU451100	MICA CAP	10pF	500V	マイカコン	C623,624,750	
	FU451330	MICA CAP	33pF	500V	マイカコン	C685	
	FU351220	MICA CAP	22pF	500V	マイカコン	C705,706,720	
	FU451470	MICA CAP	47pF	500V	マイカコン	C747-749	
	VA983600	COIL	220uH	ELF0505SKI	コイル	L601,602	G
	HV455100	FLAME PROOF CARBON RESISTOR	100Ω	1/4W	不燃化カーボン抵抗	R637,638,780,781	
	HV455220	FLAME PROOF CARBON RESISTOR	220Ω	1/4W	不燃化カーボン抵抗	R667,668	
	HL324820	METAL OXIDE RESISTOR	82Ω	2W	酸化金属被膜抵抗	R778,784	
	VK174500	RESISTOR ARRAY	RYLS7J104		抵抗アレイ	R779	
	VK228700	RESISTOR ARRAY	RYLS9J474		抵抗アレイ	R633,634	
	iG077400	IC	NJM4556S		IC	IC604	
	XB247A00	IC	uPC4570HA		IC	IC601,603,607,608,615,	
	XE322001	IC	NJM2068S-D		IC	611-613,616,619,621 IC605,609,620	
	XF971A00	IC	uPC4574C		IC	IC618	
	XE536001	IC	LC7535		IC	IC606,610,614	
	XG732A00	IC	LC7821H		IC	IC602	
	Xi109A00	IC	MC14576A		IC	IC626	
	Xi113A00	IC	LC7522		IC	IC617	
	XF740A00	IC	NJM78M05FA		IC	IC622	
	XE436A00	IC	NJM79M05FA		IC	IC623	
	iG001770	IC	TC4051BP		IC	IC624,625	
	VF926500	LIGHT DETECTING MODULE	GP1U501X		リモコン受光ユニット	U601	
	VJ787200	ROTARY SWITCH	SRBU16032A	1/6S	ロータリーSW	SW601	
	KA805170	PUSH SWITCH	SUN4-2NS		プッシュSW	SW602	
	VK177200	PIN JACK	3P		ピンジャック	PJ605	J
	VJ695900	PIN JACK	3P		ピンジャック	PJ605	UCRABG
	VK177400	PIN JACK	4P		ピンジャック	PJ602	J
	VJ696300	PIN JACK	4P		ピンジャック	PJ602	UCRABG
	VK177500	PIN JACK	4P		ピンジャック	PJ604	J
	VJ696100	PIN JACK	4P		ピンジャック	PJ604	UCRABG
	VK421700	PIN JACK	4P		ピンジャック	PJ601	J
	VK421600	PIN JACK	4P		ピンジャック	PJ601	UCRABG
	VK179100	PIN JACK	6P		ピンジャック	PJ603,606,607	J
	VJ794600	PIN JACK	6P		ピンジャック	PJ603,606,607	UCRABG
	VK175300	PHONES JACK			ヘッドホンジャック	JK601	
	Vi378300	CONNECTOR	MQ	5P	MQコネクタソケット	CB605	
	Vi378400	CONNECTOR	MQ	6P	MQコネクタソケット	CB601,628	
	Vi378500	CONNECTOR	MQ	7P	MQコネクタソケット	CB603	
	Vi378700	CONNECTOR	MQ	9P	MQコネクタソケット	CB606	
	Vi379200	CONNECTOR	MQ	12P	MQコネクタソケット	CB604,607	
	VD004500	BASE PIN	PH	2P TE	ベースピン	CB629	JUCRAB

*New Parts (新規部品)

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