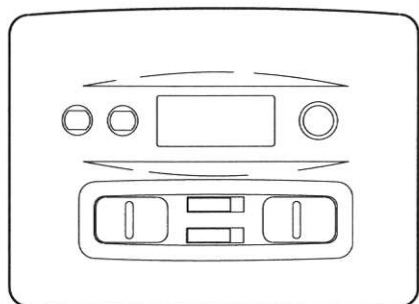


aiwa



HS-JX771 HS-JX789



STEREO CASSETTE RADIO RECORDER

• BASIC TAPE MECHANISM: 6ZM-2 R1

• TYPE: 771(YHS)
789(Y1)

SPECIFICATIONS

Frequency range:	Reception area " EU " AM: 531 – 1,602 kHz (9 kHz steps) FM1, FM2 87.5 – 108 MHz (50 kHz steps) Reception area " USA " AM: 530 – 1,710 kHz (10 kHz steps) FM1, FM2 87.5 – 108.1 MHz (200 kHz steps)
Maximum output:	12 mW + 12 mW (EIAJ 16 Ω)
Power source:	DC 3V using two R03 (size AAA) dry cell batteries AC house current using the optional AC adaptor: AC-620/AC-302
Maximum dimensions (W x H x D):	110.5 (W) x 80.1 (H) x 28.7 (D) mm (4 ³ / ₈ x 3 ¹ / ₄ x 1 ³ / ₁₆ in)
Weight:	Approx. 175 g (6.1oz) excluding batteries

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

MANUAL SERVICE

ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C18	87-016-396-080		C-CAP,U 0.22-16F
	87-002-423-080		IC,TA2002 FN	C19	87-A10-249-080		C-CAP,U 1-10 ZF
	87-001-875-080		IC,BA1106FS	C20	87-A10-422-080		C-CAP,TN 10-4 A TCF
	87-A20-580-040		C-IC,BA3641FV	C21	87-A10-263-080		C-CAP,U 0.1-16ZF
	87-002-691-080		IC,BA3714F	C22	87-A10-263-080		C-CAP,U 0.1-16ZF
	87-A20-588-040		C-IC,LB1977(V)	C23	87-012-278-080		C-CAP,U 2200P-50 B
	87-A20-628-080		C-IC,TA2046FNST	C24	87-012-278-080		C-CAP,U 2200P-50 B
	87-001-145-080		C-IC,TA8126F	C25	87-010-822-010		CAP, E 220-4 (MJ)
	87-A20-638-040		C-IC,PST9120	C26	87-010-822-010		CAP, E 220-4 (MJ)
	87-070-076-040		C-IC,PST9015	C27	87-010-943-180		C-CAP,E 100-4 M MV
	87-HJ3-621-010		C-IC,TC9327F-006	C51	87-012-274-080		CHIP CAP,U 1000P-50B
	87-A20-581-040		C-IC,S-29220AFJ	C52	87-012-274-080		CHIP CAP,U 1000P-50B
	87-A20-681-080		C-IC,RN5RZ20BA	C53	87-012-274-080		CHIP CAP,U 1000P-50B
				C54	87-012-274-080		CHIP CAP,U 1000P-50B
				C55	87-A10-249-080		C-CAP,U 1-10 ZF
TRANSISTOR				C56	87-A10-249-080		C-CAP,U 1-10 ZF
	89-115-884-080		CHIP -TRANSISTER 2SA1588Y	C57	87-A10-249-080		C-CAP,U 1-10 ZF
	87-026-418-080		TR,RN1311 (0.1W)	C58	87-A10-249-080		C-CAP,U 1-10 ZF
	87-026-461-080		C-TR IMH3	C59	87-A10-249-080		C-CAP,U 1-10 ZF
	87-026-414-080		C-TR RN1307	C60	87-A10-249-080		C-CAP,U 1-10 ZF
	89-508-804-080		CHIP FET 2SK880Y	C61	87-A10-249-080		C-CAP,U 1-10 ZF
	87-026-478-080		TR-RN2607	C62	87-A10-249-080		C-CAP,U 1-10 ZF
	87-026-567-080		TR,RN1611	C63	87-A10-263-080		C-CAP,U 0.1-16ZF
	87-026-470-080		TR,HN1C03FB(0.3W)	C64	87-A10-263-080		C-CAP,U 0.1-16ZF
	87-026-678-080		C-TR,FMG5A	C65	87-015-923-080		C-CAP,TN 0.22-35
	87-026-475-080		C-TR,RN1607	C66	87-015-923-080		C-CAP,TN 0.22-35
	87-026-476-080		TR,RN1610	C67	87-010-787-080		CAP, U 0.022-25
	87-026-481-080		TR,RN4607 (0.3W)	C68	87-010-787-080		CAP, U 0.022-25
	87-026-424-080		C-TR,RN2306	C69	87-A10-249-080		C-CAP,U 1-10 ZF
	89-113-625-080		TR,2SA1362GR	C70	87-A10-249-080		C-CAP,U 1-10 ZF
	87-026-477-080		C-TR,RN2605	C71	87-A10-249-080		C-CAP,U 1-10 ZF
	87-026-467-080		TR,HN1C01F GR	C72	87-A10-249-080		C-CAP,U 1-10 ZF
	89-327-125-080		CHIP TR,2SC2712GR	C73	87-A10-584-080		CAP,TN 100-4M 125 F93C
	89-333-266-080		CHIP TR,2SC3326B	C74	87-012-286-080		CAP, U 0.01-25
	89-413-284-080		TR,2SD1328T	C75	87-A10-418-080		C-CAP,TN 22-4 A TCF
	89-341-165-080		C-TR,2SC4116GR	C76	87-A10-422-080		C-CAP,TN 10-4 A TCF
	89-508-824-080		C-FET,2SK882Y	C77	87-A10-418-080		C-CAP,TN 22-4 A TCF
	89-342-153-080		C-TR,2SC42150	C101	87-012-282-080		CAP, U 4700P-50
	87-A30-125-080		C-TR,IMB3A	C102	87-012-282-080		CAP, U 4700P-50
	87-026-331-080		C-TR,DTA114YU	C103	87-010-828-080		CHIP CAPACITOR,U 0.033-25F
	87-026-417-080		C-TR,RN1310	C104	87-010-828-080		CHIP CAPACITOR,U 0.033-25F
	87-026-352-080		C-TR,DTC144TU	C105	87-012-286-080		CAP, U 0.01-25
	89-115-864-080		C-TR,2SA1586Y	C106	87-012-286-080		CAP, U 0.01-25
				C107	87-010-828-080		CHIP CAPACITOR,U 0.033-25F
				C108	87-010-828-080		CHIP CAPACITOR,U 0.033-25F
DIODE				C109	87-A10-263-080		C-CAP,U 0.1-16ZF
	87-A40-121-080		C-DIODE,RB715F	C110	87-A10-263-080		C-CAP,U 0.1-16ZF
	87-017-367-080		DIODE,DAP 202U	C111	87-010-942-180		C-CAP,E 47-4 M MV
	87-001-167-080		C-DIODE,1SS302	C151	87-A10-249-080		C-CAP,U 1-10 ZF
	87-001-166-080		DIODE,1SS301	C152	87-A10-249-080		C-CAP,U 1-10 ZF
	87-A40-395-080		C-ZENER,UDZ2.2B	C153	87-016-396-080		C-CAP,U 0.22-16F
	87-001-166-080		C-DIODE,1SS301	C154	87-016-396-080		C-CAP,U 0.22-16F
	87-A40-290-080		C-VARI-CAP,KV1590	C155	87-A10-249-080		C-CAP,U 1-10 ZF
	87-001-708-080		C-VARI-CAP,1SV228	C156	87-A10-249-080		C-CAP,U 1-10 ZF
	87-017-779-080		C-DIODE,1SS355	C159	87-A10-249-080		C-CAP,U 1-10 ZF
				C160	87-A10-249-080		C-CAP,U 1-10 ZF
MAIN C.B				C185	87-016-396-080		C-CAP,U 0.22-16F
C1	87-012-272-080		C-CAP,U 680P-50 B	C251	87-A10-249-080		C-CAP,U 1-10 ZF
C2	87-012-272-080		C-CAP,U 680P-50 B	C252	87-A10-249-080		C-CAP,U 1-10 ZF
C3	87-012-272-080		C-CAP,U 680P-50 B	C253	87-A10-263-080		C-CAP,U 0.1-16ZF
C4	87-012-272-080		C-CAP,U 680P-50 B	C254	87-012-277-080		C-CAP,U 1800P-50 K B
C5	87-012-286-080		CAP, U 0.01-25	C255	87-A10-263-080		C-CAP,U 0.1-16ZF
				C256	87-016-396-080		C-CAP,U 0.22-16F
C6	87-A10-418-080		C-CAP,TN 22-4 A TCF	C257	87-015-923-080		C-CAP,TN 0.22-35
C7	87-A10-418-080		C-CAP,TN 22-4 A TCF	C261	87-A10-249-080		C-CAP,U 1-10 ZF
C8	87-A10-418-080		C-CAP,TN 22-4 A TCF	C262	87-A10-249-080		C-CAP,U 1-10 ZF
C9	87-016-114-080		C-CAP,U0.01-25B	C301	87-A10-263-080		C-CAP,U 0.1-16ZF
C10	87-016-114-080		C-CAP,U0.01-25B	C302	87-A10-353-080		C-CAP,U0.22-10KB
				C303	87-A10-504-080		C-CAP,U 0.047-16 K B
C11	87-010-787-080		CAP, U 0.022-25	C305	87-010-486-080		C-CAP,TN 0.33-50

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C306	87-A10-504-080		C-CAP,U 0.047-16 K B	C515	87-010-787-080		C-CAP,U 0.022-25 K B
C307	87-A10-504-080		C-CAP,U 0.047-16 K B	C517	87-010-316-080		C-CAP,S 33P-50 J CH
C308	87-A10-504-080		C-CAP,U 0.047-16 K B	C518	87-010-318-080		C-CAP,S 47P-50 J CH
C309	87-A10-263-080		C-CAP,U 0.1-16ZF	C519	87-012-162-080		C-CAP,U 1P-50 C CH
C310	87-A10-263-080		C-CAP,U 0.1-16ZF	C520	87-012-172-080		C-CAP,U 10P-50 D CH
C351	87-A10-249-080		C-CAP,U 1-10 ZF	C521	87-012-286-080		C-CAP,U 0.01-25 K B
C352	87-010-522-080		CAP, TN 2.2-10 ECS	C522	87-012-286-080		C-CAP,U 0.01-25 K B
C401	87-012-286-080		CAP, U 0.01-25	C523	87-A10-249-080		C-CAP,U 1-10 Z F
C402	87-012-279-080		C-CAP,U 2700P-50 B	C524	87-A10-249-080		C-CAP,U 1-10 Z F
C403	87-012-286-080		CAP, U 0.01-25	C525	87-012-199-080		C-CAP,U 220P-50 J CH
C404	87-A10-418-080		C-CAP,TN 22-4 A TCF	C526	87-010-830-080		C-CAP,U 0.068-16 Z F
C405	87-012-278-080		C-CAP,U 2200P-50 K B	C527	87-010-831-080		C-CAP,U 0.1-16 Z F
C406	87-012-267-080		C-CAP, U 270P-50 K B GRM	C528	87-010-831-080		C-CAP,U 0.1-16 Z F
C451	87-010-822-010		CAP, E 220-4(MJ)	C529	87-012-273-080		C-CAP,U 820P-50 K B
C452	87-010-822-010		CAP, E 220-4(MJ)	C530	87-016-296-080		C-CAP,TN 22-4 M
C453	87-A10-418-080		C-CAP,TN 22-4 A TCF	C531	87-016-314-080		C-CAP,S 1-16 Z F
C454	87-A10-418-080		C-CAP,TN 22-4 A TCF	C532	87-012-286-080		C-CAP,U 0.01-25 K B
C455	87-A10-422-080		C-CAP,TN 10-4 A TCF	C533	87-012-286-080		C-CAP,U 0.01-25 K B
J1	87-099-658-110		JACK,3.5 ST BLK TWIN<771YHS>	C534	87-010-197-080		C-CAP,S 0.01-25 K B
J51	87-099-846-010		JACK,3.5 ST BLK<789Y1>	C535	87-012-195-080		C-CAP,U 100P-50 J CH
J451	87-A60-352-010		JACK,DC 3.8 MJC003-A	C536	87-010-831-080		C-CAP,U 0.1-16 Z F
L1	84-HJ9-616-110		COIL,LOADING 3.3	C537	87-012-278-080		C-CAP,U 2200P-50 K B
L2	87-003-240-080		C-COIL,S 3.3UH	C538	87-010-787-080		C-CAP,U 0.022-25 K B
L3	87-003-240-080		C-COIL,S 3.3UH<771YHS>	C539	87-010-787-080		C-CAP,U 0.022-25 K B
L3	87-003-369-080		C-COIL,U 3.3UH K<789Y1>	C540	87-A10-594-080		C-CAP,TN 10-4 A2 MSV
L4	87-003-240-080		C-COIL,S 3.3UH<771YHS>	C541	87-010-831-080		C-CAP,U 0.1-16 Z F
L4	87-003-369-080		C-COIL,U 3.3UH K<789Y1>	C542	87-012-286-080		C-CAP,U 0.01-25 K B
L5	87-003-240-080		C-COIL,S 3.3UH<771YHS>	C601	87-010-505-080		C-CAP,TN 1-16 ECS
L5	87-003-369-080		C-COIL,U 3.3UH K<789Y1>	C602	87-010-787-080		C-CAP,U 0.022-25 K B
L6	87-A50-007-080		C-COIL,S 68UH K MLF<771YHS>	C604	87-012-276-080		C-CAP,U 1500P-50 K B
L7	87-003-369-080		C-COIL,U 3.3UH K<789Y1>	C605	87-012-172-080		C-CAP,U 10P-50 D CH
L8	87-003-369-080		C-COIL,U 3.3UH K<789Y1>	C607	87-012-156-080		C-CAP,S 220P-50 J CH GRM
L9	87-003-369-080		C-COIL,U 3.3UH K<789Y1>	C608	87-A10-249-080		C-CAP,U 1-10 Z F
L10	87-003-369-080		C-COIL,U 3.3UH K<789Y1>	C609	87-012-195-080		C-CAP,U 100P-50 J CH
L401	87-HJ3-605-080		C-COIL,OSC BIAS	C610	87-A10-249-080		C-CAP,U 1-10 Z F
PS351	87-026-504-010		SNSR, PHOTO NJL5164KF	C700	87-010-178-080		C-CAP,S 1000P-50 K B
R9	87-022-292-080		CHIP RES U 330K-1/16W F	C701	87-012-286-080		C-CAP,U 0.01-25 K B
R10	87-022-292-080		CHIP RES U 330K-1/16W F	C702	87-012-286-080		C-CAP,U 0.01-25 K B
R11	87-022-243-080		CHIP RES,U 15K-1/16W F	C703	87-010-197-080		C-CAP,S 0.01-25 K B
R12	87-022-243-080		CHIP RES,U 15K-1/16W F	C704	87-016-491-080		C-CAP,S 0.22-16 Z F C2021
S201	87-A90-330-080		SW,SL 1-1-2 SSSS81	C705	87-A10-048-080		C-CAP,TN 22-4 M F95
S401	87-A90-330-080		C-SW,SL 1-1-2 SSSS81<771YHS>	C706	87-A10-025-080		C-CAP,U 0.22-16 Z F
S481	87-HJ3-608-010		SW,LEAF REC ASSY	C707	87-012-172-080		C-CAP,U 10P-50 D CH
S482	87-HJ3-608-010		SW,LEAF REC ASSY	C708	87-012-172-080		C-CAP,U 10P-50 D CH
S483	87-A90-455-010		SW,PUSH HXW4001	C709	87-010-831-080		C-CAP,U 0.1-16 Z F
S484	87-036-236-080		SW SL 1-1-2 SSSS81	C710	87-010-831-080		C-CAP,U 0.1-16 Z F
S485	87-A90-356-010		SW,LEAF 6ZM-2	C711	87-010-831-080		C-CAP,U 0.1-16 Z F
SFR1	87-024-614-080		C-SFR,K 33K H EVM 3SS	C712	87-010-831-080		C-CAP,U 0.1-16 Z F
TH301	87-A90-477-080		C-THMS,157-502-53002-TP	C901	87-010-505-080		C-CAP,TN 1-16 ECS
VR1	87-A90-538-080		C-VR,RTRY 20KAX2 XV0103G	C902	87-A10-048-080		C-CAP,TN 22-4 M F95
TUNER C.B				CF503	87-A90-456-080		C-FLTR,PFWCC 450J3
CF501, CF502, X501				CT501	87-011-189-080		C-TRIMMER,CER 10P 4.5X3.2 CTZ
BPF501	87-008-406-080		C-FLTR,BPF GFMB1	L501	87-HR6-616-010		BAR-ANT,MW
C501	87-012-195-080		C-CAP,U 100P-50 J CH	L502	85-HR4-626-080		COIL,FM RF
C502	87-A10-249-080		C-CAP,U 1-10 Z F	L503	87-003-247-080		C-COIL, 100UH J LQH3
C503	87-012-195-080		C-CAP,U 100P-50 J CH	L504	85-HR4-625-080		COIL,FM OSC
C504	87-012-195-080		C-CAP,U 100P-50 J CH	L505	87-008-420-080		C-IFT MW 5M S5CDLN-1431AYV
C505	87-010-831-080		C-CAP,U 0.1-16 Z F	L601	87-006-173-080		C-COIL,DD 5CDL
C506	87-010-829-080		C-CAP,U 0.047-16 Z F	LCD701	87-HJ3-615-010		LCD,TC9327F-004
C507	87-010-787-080		C-CAP,U 0.022-25 K B	LED1001	87-A90-278-080		C-LED,SML-210VT RED
C508	87-012-286-080		C-CAP,U 0.01-25 K B	S701	87-A90-214-080		C-SW,SL 1-1-2 SSSS8A2-B
C509	87-010-318-080		C-CAP,S 47P-50 J CH	S702	87-A90-378-080		C-SW,PUSH PT035C1T
C510	87-012-168-080		C-CAP,U 6P-50 D CH	S703	87-A90-378-080		C-SW,PUSH PT035C1T
C511	87-012-186-080		C-CAP,U 39P-50 J CH	S704	87-036-308-180		C-SW,TACT 112HST
C512	87-012-140-080		C-CAP,S 470P-50 J CH	S705	87-036-308-180		C-SW,TACT 112HST
C513	87-012-247-080		C-CAP,U 18P-50 J UJ	S706	87-036-308-180		C-SW,TACT 112HST
C514	87-012-286-080		C-CAP,U 0.01-25 K B	S707	87-036-308-180		C-SW,TACT 112HST
				S708	87-036-308-180		C-SW,TACT 112HST
				S709	87-036-308-180		C-SW,TACT 112HST
				S710	87-036-308-180		C-SW,TACT 112HST

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
S711	87-036-203-180		C-SW,SL 1-1-3 SSSS81
X502	87-A70-083-010		VIB, KBR-912F103
X701	87-A70-078-010		VIB,XTAL 75KHZ KF-26R5

RPH FLEX C.B, EH FLEX C.B

86-ZM2-293-010 HEAD ASSY,R1

TUNER FLEX C.B

87-HR6-613-010 PWB,FLEX TU 34P

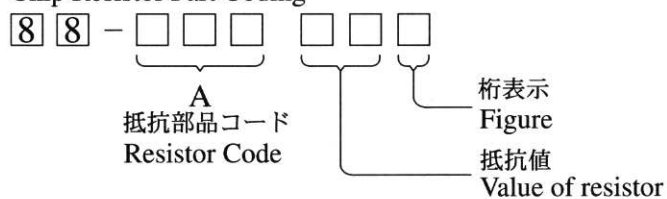
HP FLEX C.B

87-HJ3-609-010 PWB,FLEX HP<789Y1>
J1 86-HJ2-604-010 JACK,DIA3.5 ST 9P<789Y1>

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

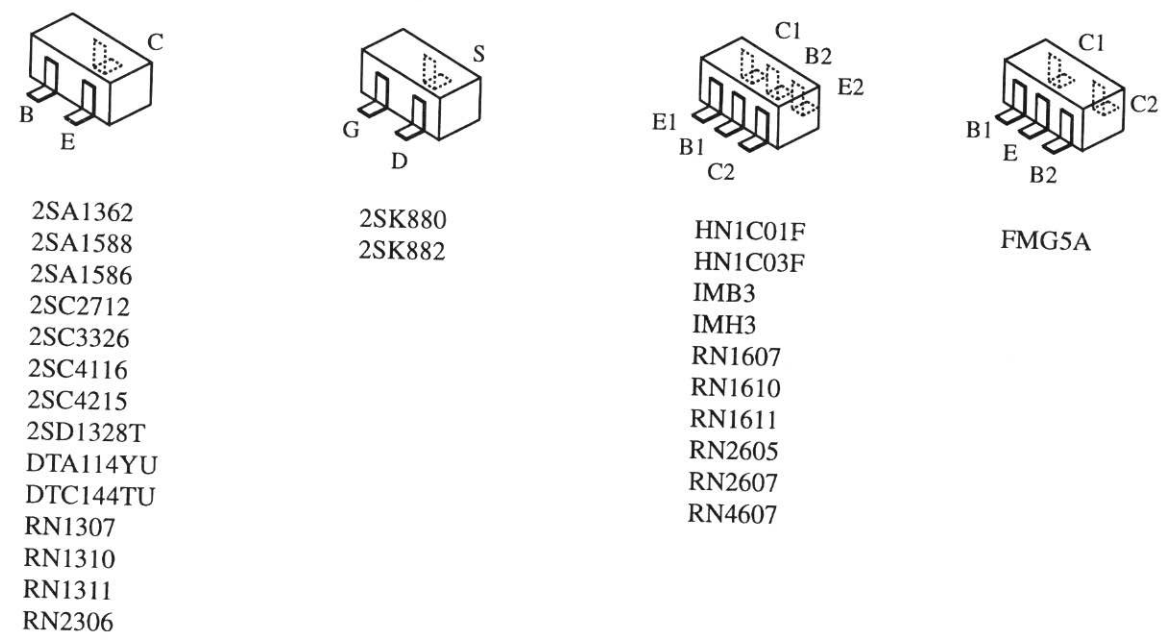
Chip Resistor Part Coding



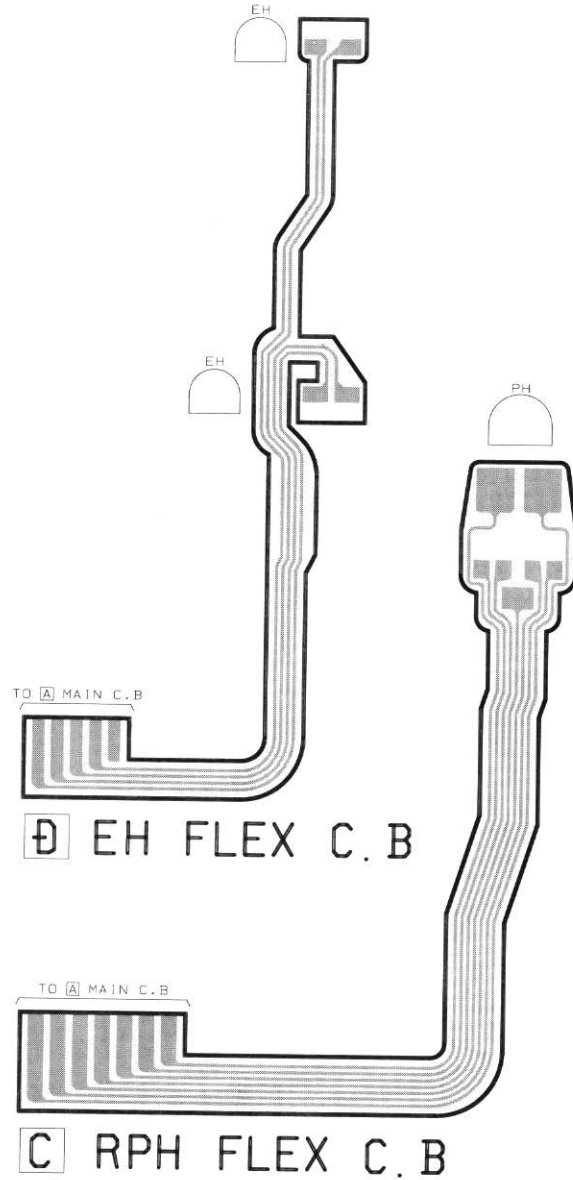
チップ抵抗
Chip resistor

Chip Resistor				寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	外形／Form	L	W	t	
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

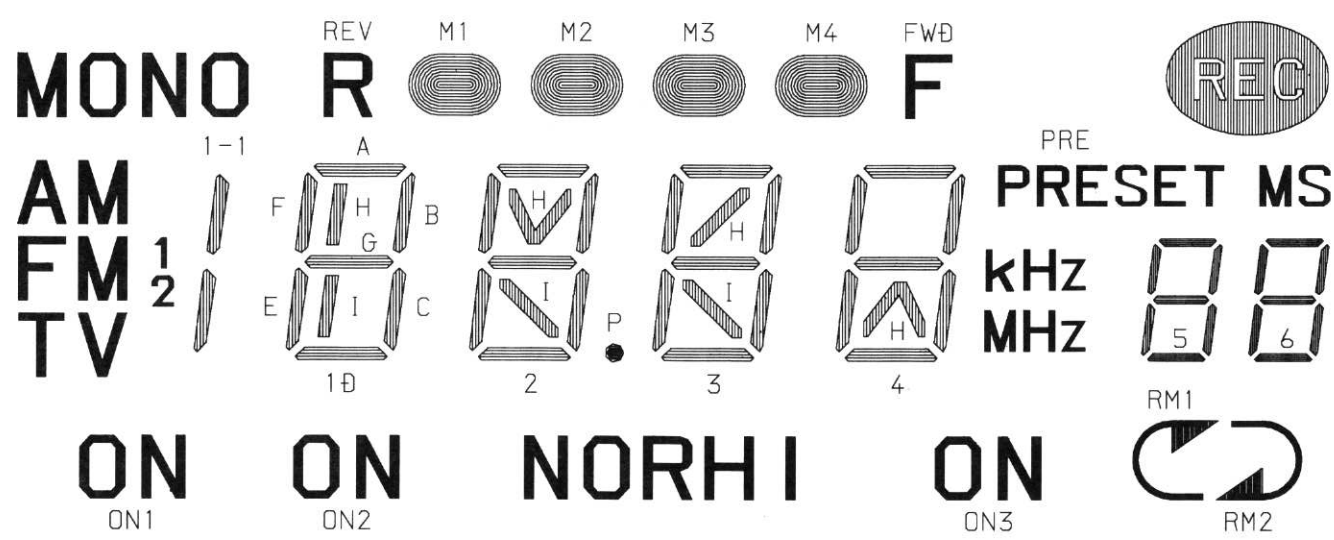
TRANSISTOR ILLUSTRATION



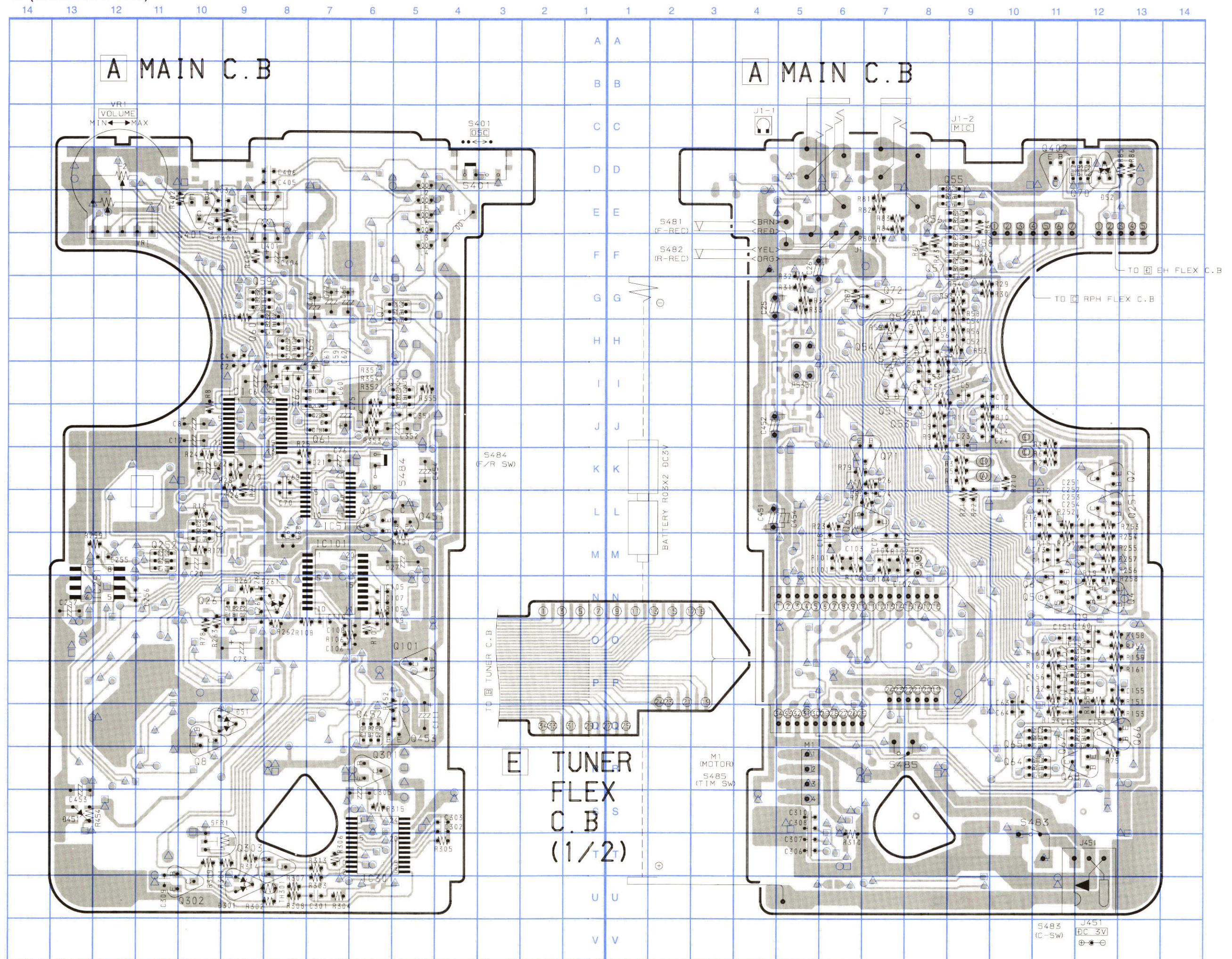
WIRING – 1 (EH / RPH FLEX)



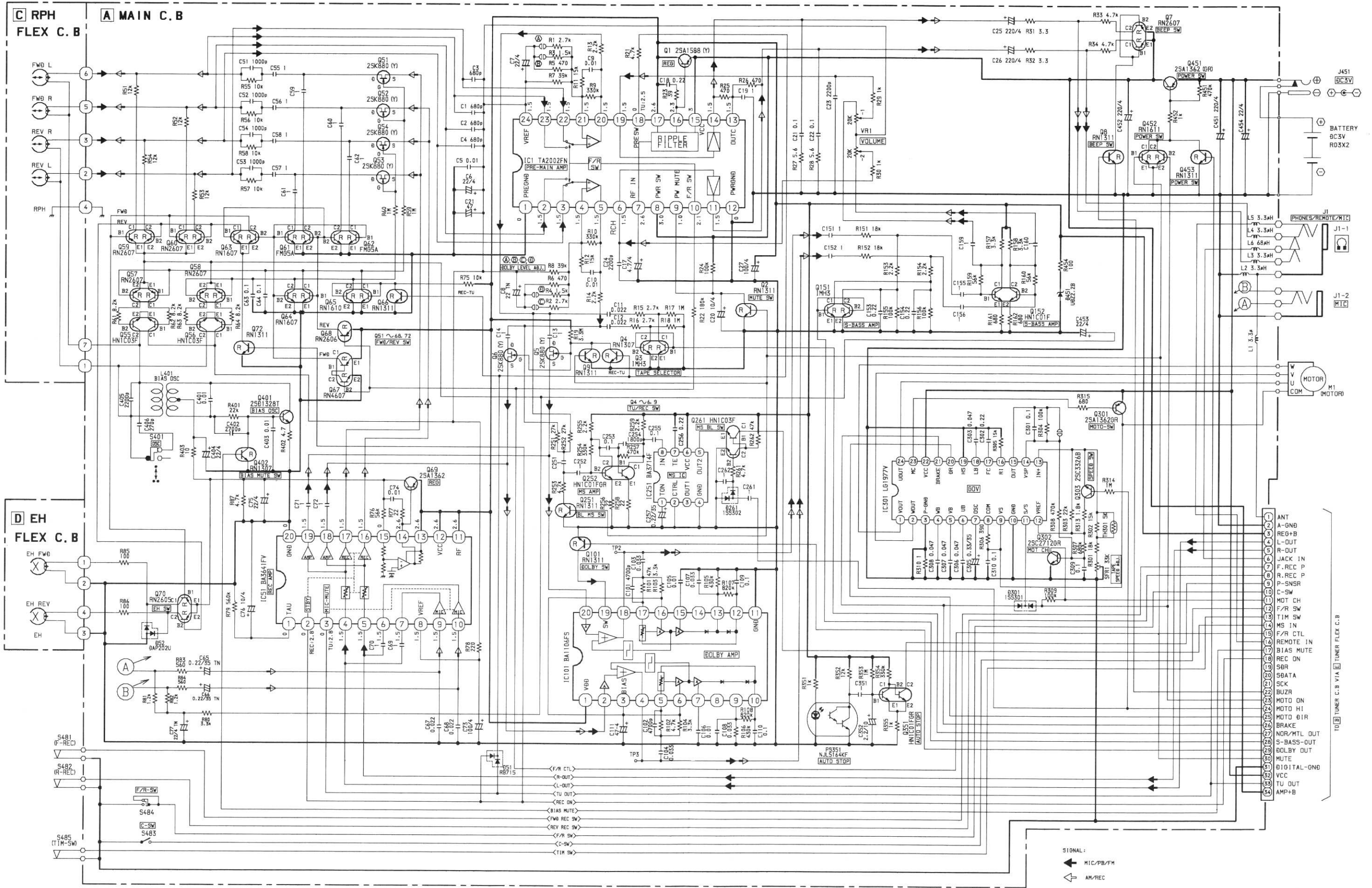
LCD DIAGRAM

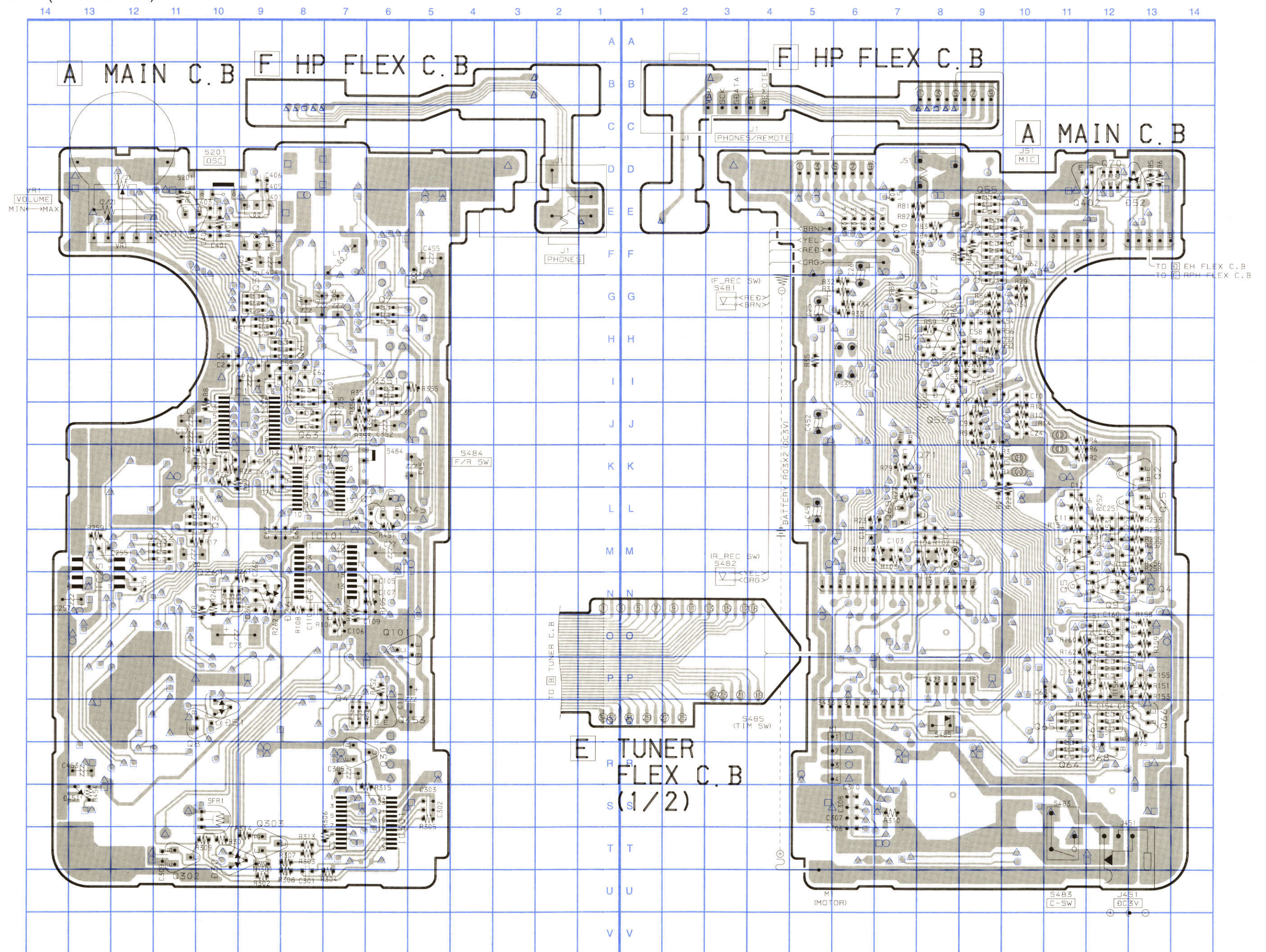


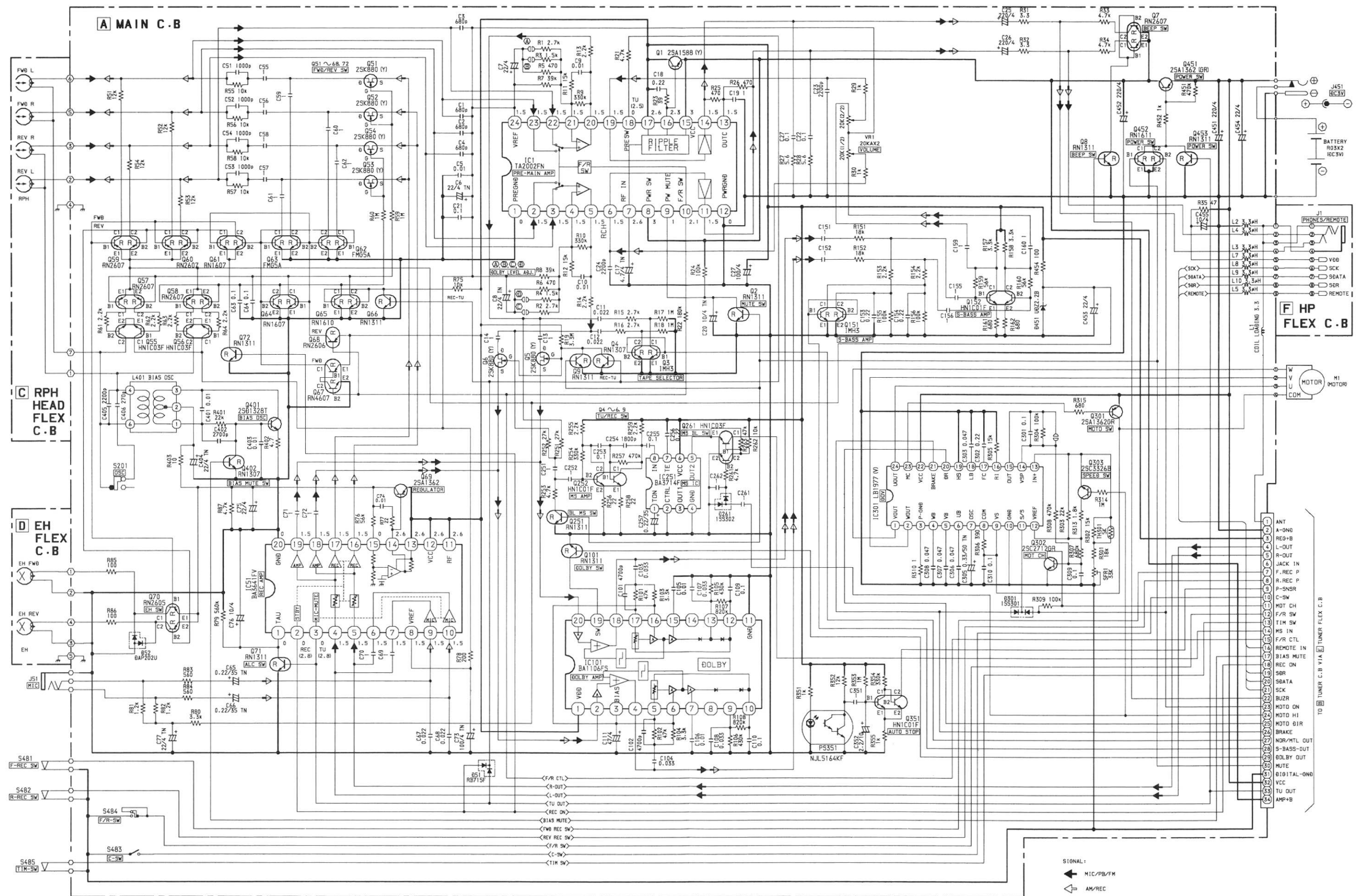
NO	1	2	3	4	5	6	7	8	9	10	11	12
COM1	COM1	—	—	—	AM	MONO	REV	1H	1A	M2	2H	2A
COM2	—	COM2	—	—	FM	1	1F	1G	1B	2F	2G	2B
COM3	—	—	COM3	—	TV	2	1E	1I	1C	2E	2I	2C
COM4	—	—	—	COM4	ON1	ON2	1-1	1D	M1	NOR	2D	P
NO	13	14	15	16	17	18	19	20	21	22	23	
COM1	M3	3H	3A	FWÐ	—	4A	REC	5F	5A	6F	6A	
COM2	3F	3G	3B	4F	4G	4B	PRE	5G	5B	6G	6B	
COM3	3E	3I	3C	4E	4H	4C	KHz	5E	5C	6E	6C	
COM4	HI	3D	M4	ON3	4D	MHz	RM1	RM2	5D	MS	6D	



SCHEMATIC DIAGRAM - 1 (MAIN : 771 YHS)

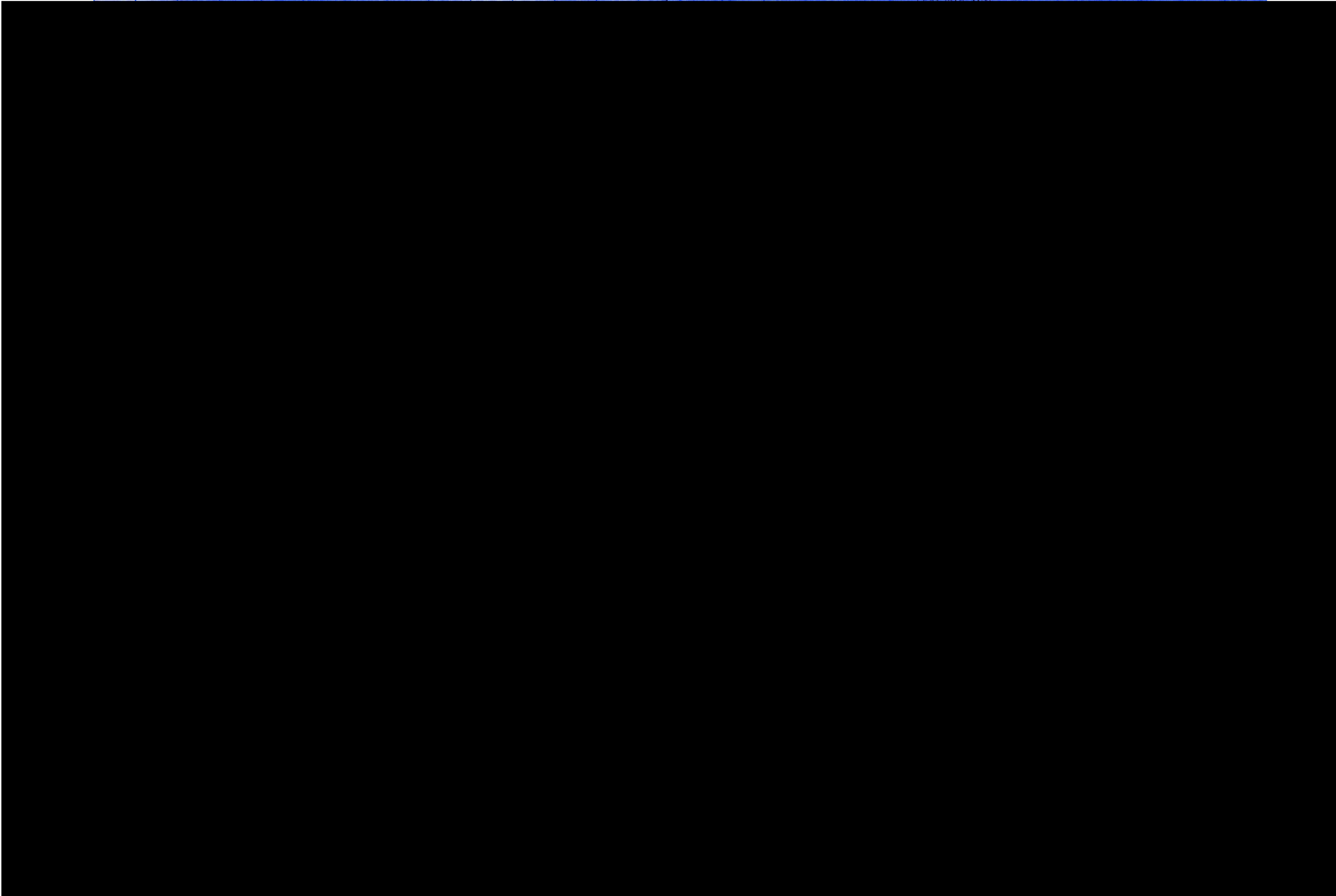




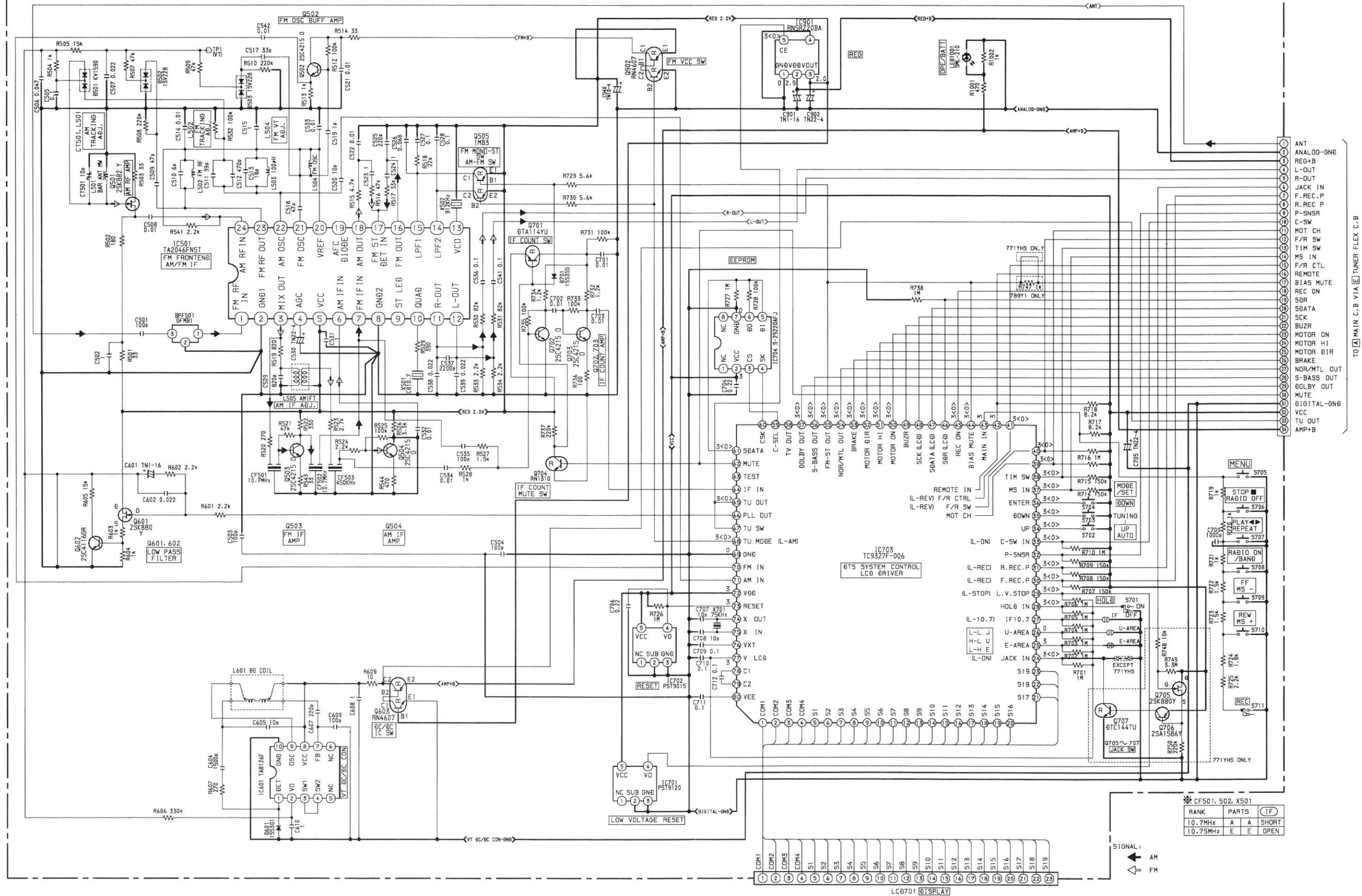


WIRING – 4 (TUNER)

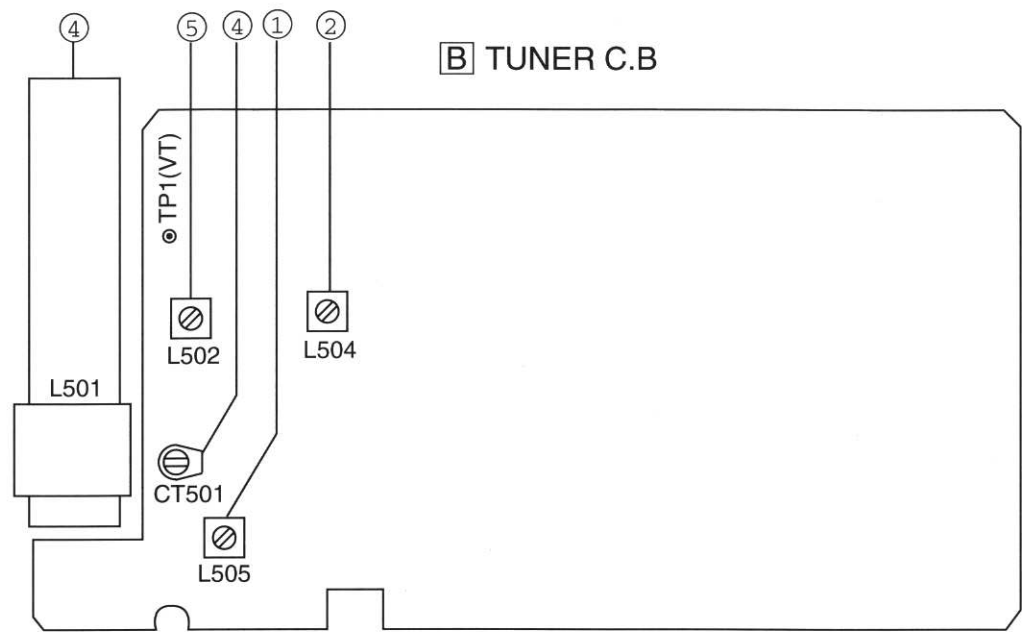
14	13	12	11	10	9	8	7	6	5	4	3	2	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14
													A	A													
					B	TUNER	C.	B					B	B					B	TUNER	C.	B					



B TUNER C.B



ADJUSTMENT-1<TUNER>



PRACTICAL SERVICE FIGURE

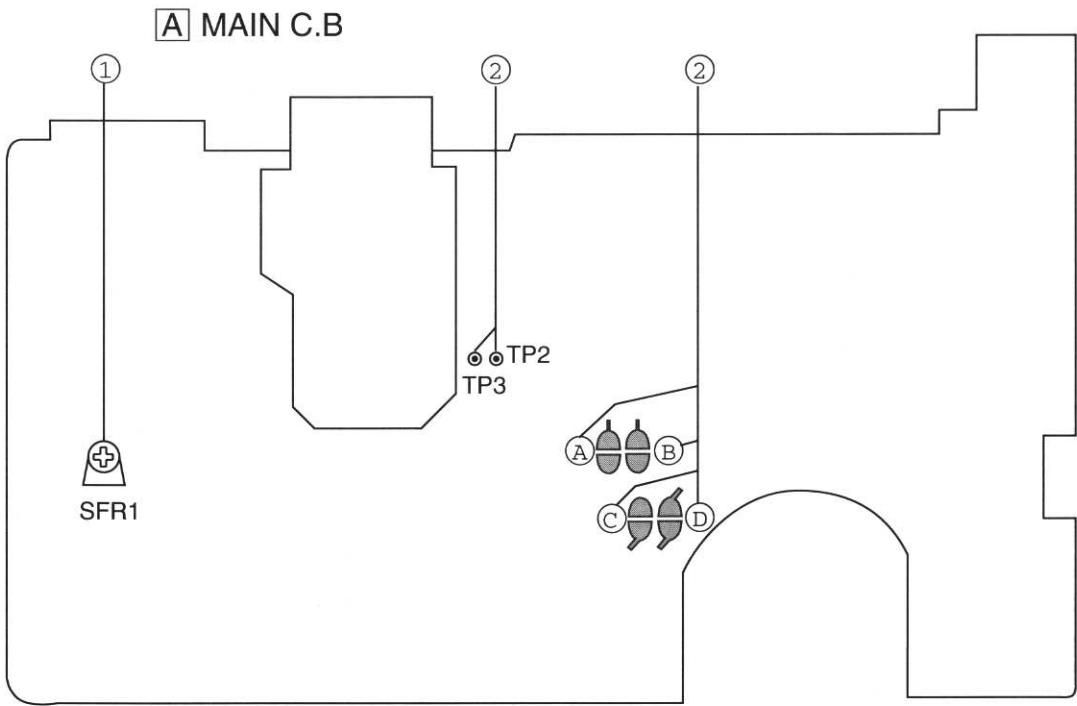
<RADIO SECTION>

1. AM IF Adjustment
L505..... 450 kHz
2. FM VT Adjustment
Settings: •Test point : TP1
•Adjustment location : L504
Method: Set to FM 87.5 MHz and adjust L504 so that the test point becomes 1.0 V ± 0.1 V. Set to FM 108.0 MHz , check the voltage for less than 9.0 V.
3. AM VT Check
Settings: •Test point : TP1
Method: Set to AM 531 kHz and 1602 kHz, check the voltage for less than 1.0 V +0.4/-0.3 V(531 kHz) and 6.0 V(1602 kHz).
4. AM Tracking Adjustment
L501..... 630 kHz
CT501 1440 kHz
5. FM Tracking Adjustment
L502 87.5 MHz

<RADIO SECTION>

Sensitivity : (IHF, THD 3%)	FM	Less than 18 dB (87.5 MHz / 98.5 MHz / 108.0 MHz)
	AM	Less than 58 dB (630 kHz) Less than 57 dB (999 kHz) Less than 56 dB (1440 kHz)
	FM	10.7 MHz ± 0.05 MHz
	AM	450 kHz ± 3 kHz
Intermediate frequency :	FM	More than 16dB (98.5 MHz)
FM stereo separation :	FM	

ADJUSTMENT-2<DECK>



PRACTICAL SERVICE FIGURE

<TAPE PLAYER SECTION>

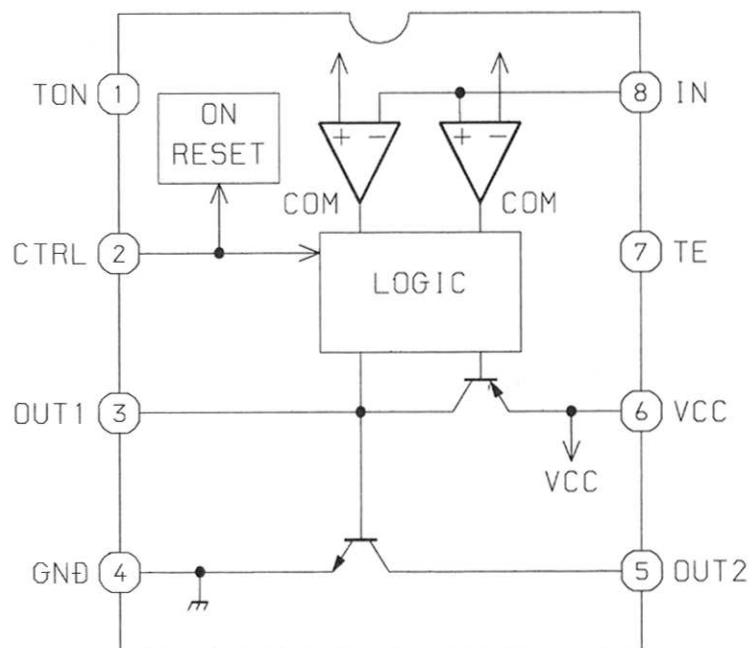
1. Tape Speed Adjustment
Settings: •Test tape : TTA-100
•Test point : PHONES JACK (J1)
•Adjustment location : SFR1
•DOLBY NR : OFF
•SUPER BASS : OFF
Method: Play back the test tape, adjust for 2990 ± 10 Hz at FWD and + 45 / - 25 Hz at REV.
2. Dolby Level Adjustment
Settings: •Test tape : TTA-200
•Test point : TP2 (Lch), TP3 (Rch)
•Adjustment location : Pattern A, B (Lch)
: Pattern C, D (Rch)
•VOLUME : MIN
Method: Connect a coupling capacitor (10μF/16V) between the test point and AC volt meter. Check the test point voltage for 100mV ± 1.0dB. If TP2, TP3 level is different from the SPEC, perform this adjustment following the procedure below:

	Out level	Solder place
TP2 (LCH)	100mV + 1dB up	A
	100mV + 2dB up	B
	100mV + 3dB up	A , B
TP3 (RCH)	100mV + 1dB up	C
	100mV + 2dB up	D
	100mV + 3dB up	C , D

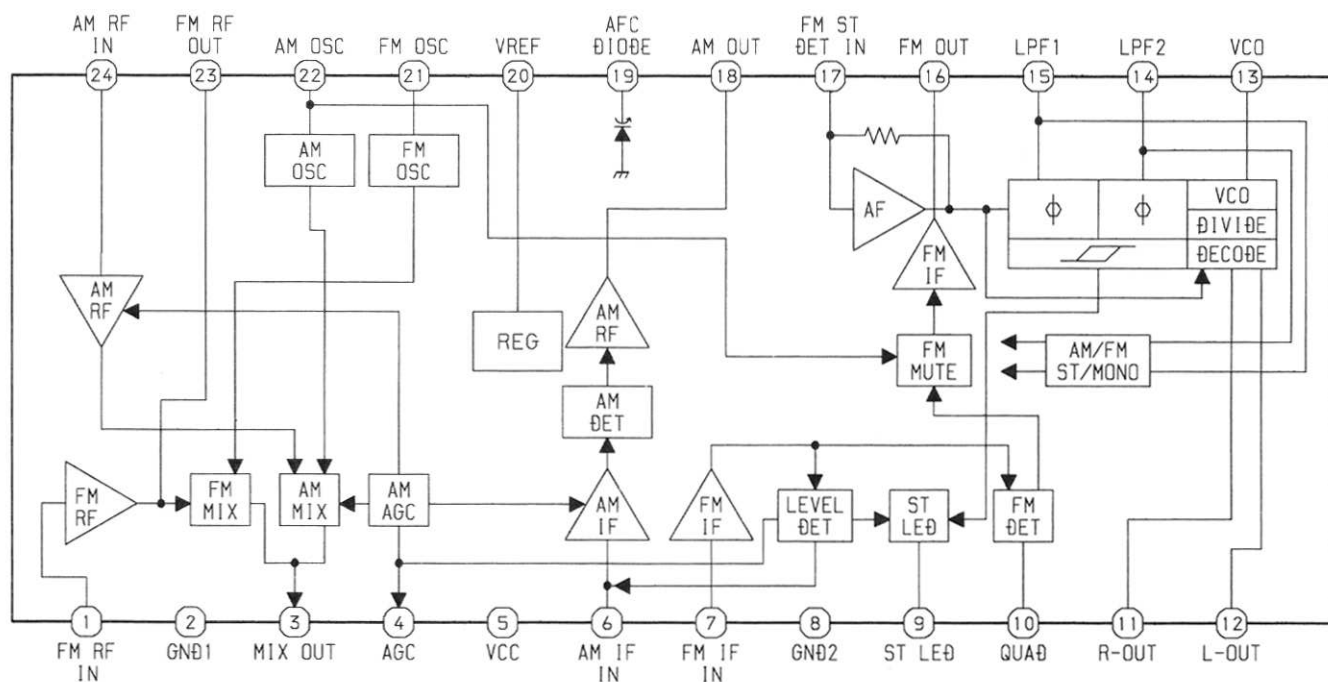
<RADIO SECTION>

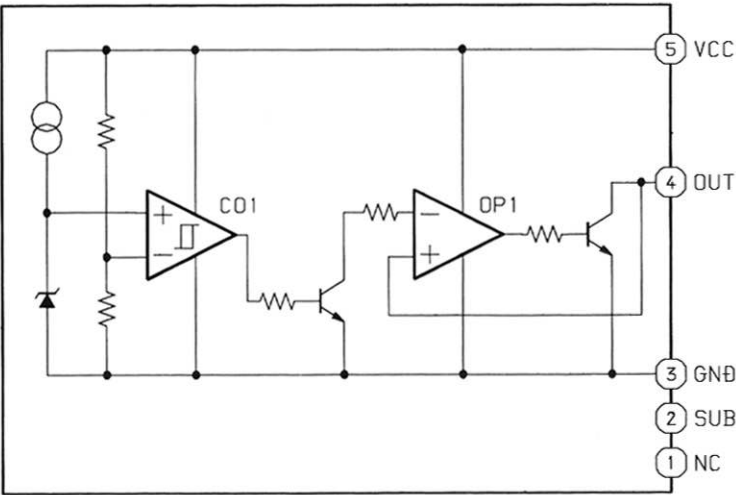
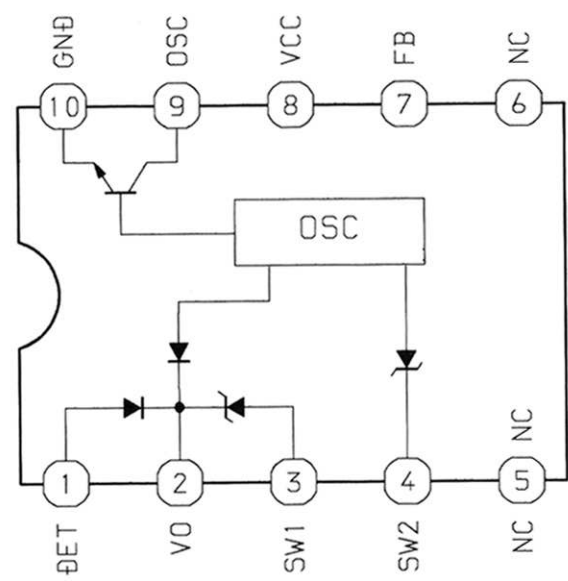
Tape speed :	3015 Hz ± 50 Hz
Wow & flutter :	Less than 0.52 % (RMS)
Take-up torque :	20 ~ 30 g-cm (FWD, REV)
F. F torque :	100 ~ 150 g-cm
REW torque :	100 ~ 150 g-cm
Back tension :	1 ~ 3 g-cm (FWD, REV)
S/N ratio :	More than 45 dB (DC, PB)
Distortion :	Less than 3.0 % (DC, PB)
Noise level :	Less than 3.0 mV (Vol MAX, DC)
Frequency response :	63 Hz +2/-6 dB ~ 8 kHz +3/-4 dB (NORMAL, PB) 63 Hz +2/-6 dB ~ 10 kHz +3/-4 dB (CrO2, PB)

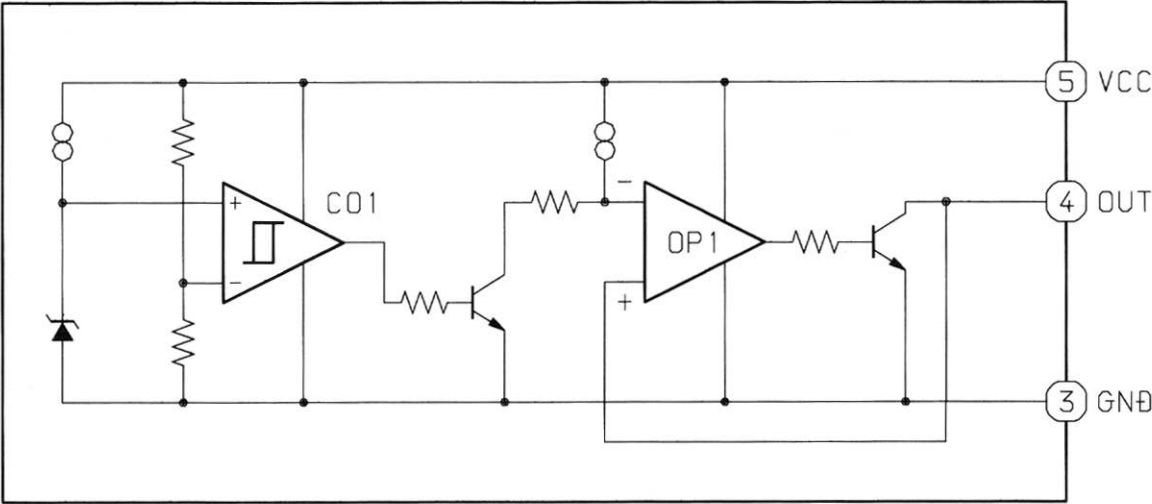
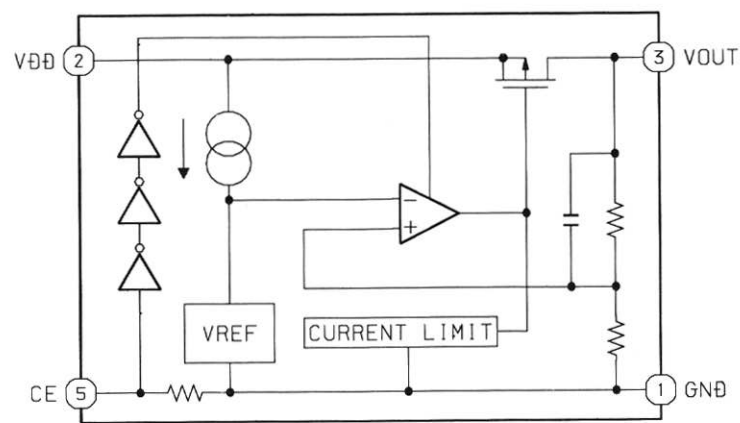
IC BLOCK DIAGRAM
IC, BA3714F



IC, TA2046FNST







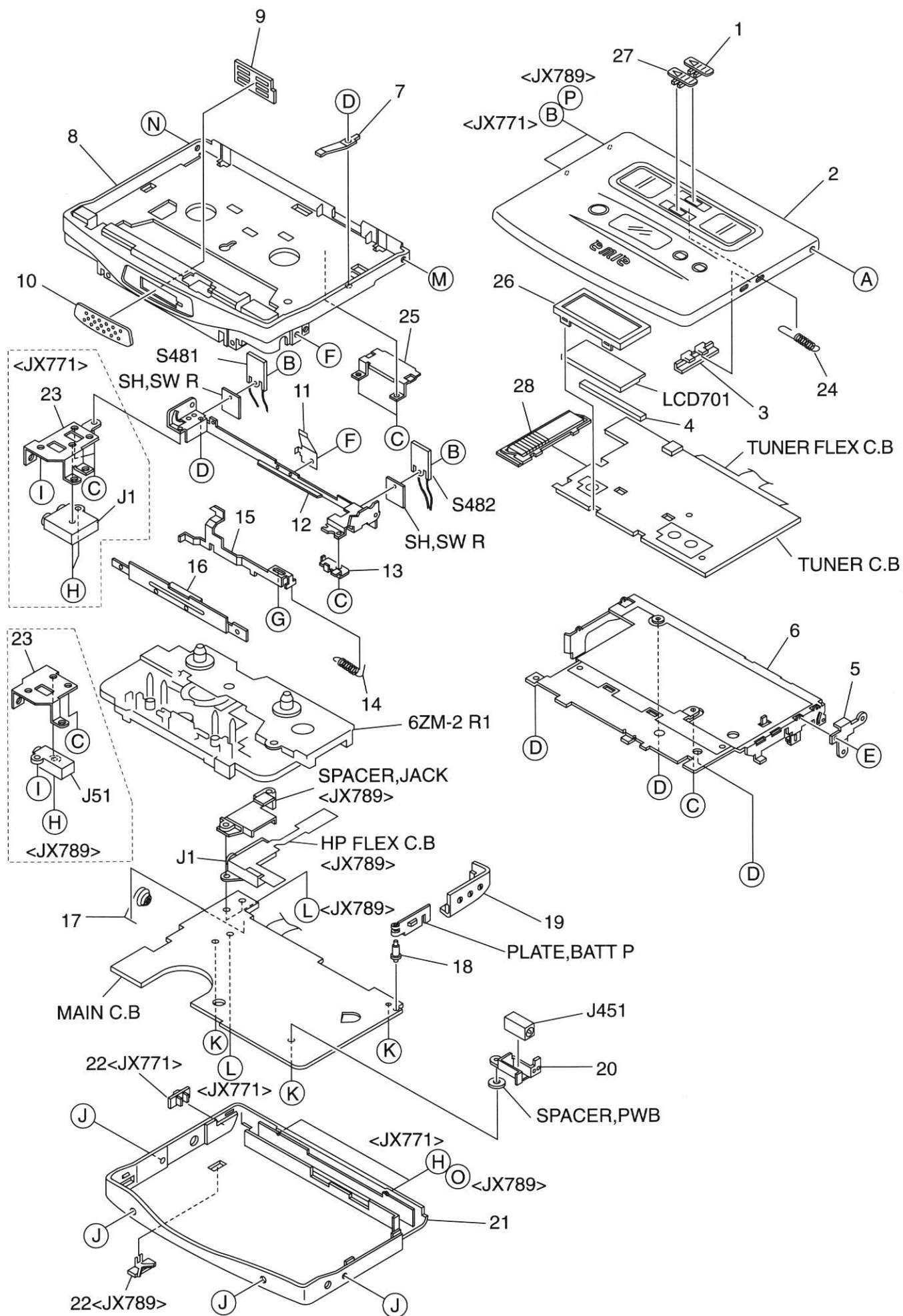
IC DESCRIPTION

IC, TC9327F-006

Pin No.	Pin Name	I/O	Description
1 ~ 4	COM1 ~ 4	O	LCD COMMON OUT1 ~ 4.
5 ~23	S1 ~ S19	O	LCD DRIVER OUT.
24	JACK IN	I	R-channel data invertCed output.
25	E-AREA	I	H L E AREA L H U AREA L L J AREA
26	U-AREA	I	
27	IF10.7	I	H : IF10.75MHz L : IF10.7MHz
28	HOLD IN	I	Key hold set up for main unit. H : HOLD ON L : OFF
29	L.V.STOP	I	Mechanism stop when low voltage, key input limit. L : mechanism stop
30	F.REC.P	I	H : REC key can not L : Can
31	R.REC.P	I	H : REC key can not L : Can
32	P-SNSR	I	Input pin of PHOTO SENSOR output wave form.
33	C-SW IN	I	Cassette have or not detection. H : C-SW OFF L : ON
34	UP	I	Up scan movement when TU. H : ON L : OFF
35	DOWN	I	Down scan movement when TU. H : ON L : OFF
36	ENTER	I	ENTER movement when TU. H : ON L : OFF
37	MS IN	I	MS IC signal input pin. H : music have not L : have
38	TIM SW	I	Input pin for mechanism movement set up.
39	MOT CH	I	Input pin MOT setting detection.
40	F/R SW	I	Input pin for mistake movement detection of mechanism. H : FWD L : REW
41	F/R CTRL	O	H : mechanism FWD mode L : mechanism REV mode
42	REMOTEIN	I	Remote control key input.
43	MAIN IN	I	Main unit machine control key input.
44	BIASMUTE	O	MUTE output pin when REC.
45	REC ON	O	H : REC ON L : OFF
46	SDR(LCD)	I	LCD microcomputer control pin.
47	SDATA(LCD)	O	LCD microcomputer serial data output pin.
48	SCK(LCD)	O	LCD microcomputer serial clock output pin.
49	BUZR	O	Buzzer output.
50	MOTOR ON	O	H : MOT ON L : OFF
51	MOTOR HI	O	H : MOT HI SPEED L : OFF
52	MOTORDIR	O	H : MOT CW L : CCW
53	BRAKE	O	H : MOT BRAKE ON L : OFF
54	NO/MT OUT	O	TAPE NORMAL / METAL change output pin. H : METAL
55	FMST OUT	O	FM MONO / ST change output pin. H : FM ST
56	BASS OUT	O	S-BASS ON / OFF output pin. H : S-BASS ON
57	DOLBYOUT	O	DOLBY ON / OFF establish output pin. H : DOLBY ON
58	TV OUT	O	H : TV (4 ~ 12 ch) L : except TV (4 ~ 12 ch)
59	C-CEL(EP)	O	EEPROM head write control pin.
60	SCK(EP)	O	EEPROM serial clock output pin.
61	SDATA(EP)	I/O	EEPROM data input/output pin

Pin No.	Pin Name	I/O	Description
62	MUTE	O	Muting output. H : MUTE ON L : OFF
63	TEST	—	NC.
64	IF IN	I	IF signal input pin.
65	TU OUT	O	H : TU ON L : OFF
66	PLL OUT	O	PLL output pin.
67	TU SW	I	TU mode input. H : TU mode L : OFF
68	TU MODE	O	H : FM mode L : AM mode
69	GND	—	GND.
70	FM IN	I	FM programmable counter input.
71	AM IN	I	AM programmable counter input.
72	VDD	—	VDD.
73	RESET	—	System reset signal input pin.
74	XOUT	—	Crystal oscillator connecting pin.
75	XIN	—	Crystal oscillator connecting pin.
76	VXT	—	Voltage supply pin for crystal oscillator.
77	VLCD	—	Twice voltage boost pin for LCD drive.
78	CI	—	Twice voltage boost pin for LCD drive.
79	C2	—	Twice voltage boost pin for LCD drive.
80	VEE	—	1.5V fixed voltage supply pin for LCD drive.

MECHANICAL EXPLODED VIEW 1 / 1

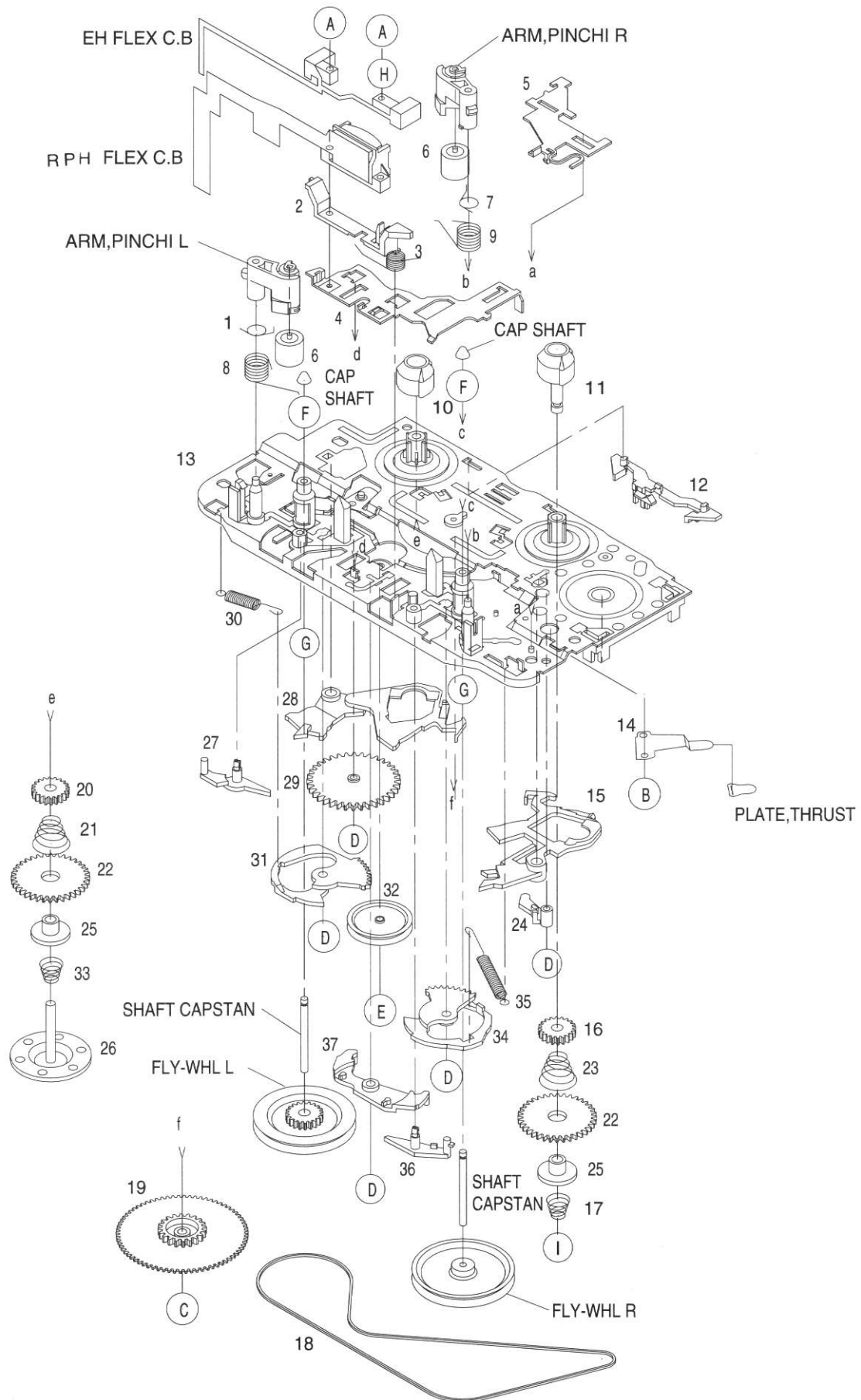


MECHANICAL PARTS LIST 1 / 1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-HJ3-013-010		KNOB,SL H	24	87-HJ3-202-010		SPR-E,REC
2	09-028-335-010		LID CASS,ASSY<771YHS1>	25	87-HR6-210-010		HLDL,FLEX
2	09-028-334-010		LID CASS,ASSY<789Y1>	26	87-HR6-206-010		HLDL,LCD
3	87-HR6-013-010		KEY,TUNING	27	87-HJ3-014-010		KNOB,SL REC
4	87-HR6-225-010		CONN, RUBBER LCD	28	87-HR6-205-010		HLDL,ANT
5	87-HR6-212-010		SPR-P,CLICK	A	85-HR4-217-010		S-SCREW,SERR+1.4-4CR<789Y1>
6	87-HR6-204-010		HLDL,CASS	A	85-HR4-216-010		SCRW-SR,1.4-4 BL<771YHS1>
7	87-HR6-219-010		SPR-P,POP UP	B	85-HK6-208-010		SCRW-SR,+1.4-2.2B L
8	87-HR6-001-010		FRAME,CENTER<771YHS1>	C	87-067-732-010		TAPPING SCREW, VT1.4-3
8	87-HJ3-004-010		FRAME,CENTER (ST)<789Y1>	D	87-067-385-010		SCREW,VT +1.4-2.5HL
9	87-HR6-208-010		PLATE,EJECT	E	87-078-216-010		SCRW-SR,1.4-1.4B LS
10	87-HR6-015-010		KNOB,SL OPEN	F	87-078-184-010		SCRW-SR,1.4-1.8 BL
11	87-HR6-209-010		SPR-P,CASS	G	87-HK5-235-010		S-SCREW,1.4-0.6-2.5
12	87-HR6-201-010		PLATE,HINGE<771YHS1>	H	86-HK4-223-010		S-SCREW,SERR+1.4-3.5 B L
12	87-HR6-233-010		PLATE,HINGE LCD<789Y1>	I	87-067-405-010		SCREW,VP+1.4-6HL
13	87-HK6-217-010		SPR-P,GND	J	87-078-147-010		SCRW-SERR-M1.4-3B<771YHS1>
14	87-HK5-210-010		SPR-E,EJECT	J	85-HK3-241-010		SCRW-SR,1.4-3CR L<789Y1>
15	87-HR6-207-010		PLATE,LOCK	K	87-078-113-010		S-SCRW,+1.4-3.5 HL(B
16	87-HR6-203-010		PLATE,FRONT	L	87-067-746-010		SCREW,M 1.4-2(H0.5)<771YHS1>
17	87-HR6-211-010		SPR-C,BAT M	L	87-078-050-010		SCRW-SERR,M1.4-8<789Y1>
18	87-HR6-218-010		SHAFT,BAT	M	87-067-738-010		HINGE SCREW 1.4-1 BLK N<771YHS1>
19	87-HR6-008-010		LID,BAT<771YHS1>	M	87-067-739-010		HINGE SCREW 1.4-1 CR N<789Y1>
19	87-HJ3-008-010		LID,BAT (ST)<789Y1>	N	87-HK6-219-010		S-SCREW,+1.4-1 0.3 B<771YHS1>
20	87-HR6-202-010		PLATE,SIDE	N	87-HK6-220-010		S-SCREW,+1.4-1 0.3 CR N<789Y1>
21	87-HJ4-007-010		CABI,REAR 771 (B)<771YHS1>	O	86-HK4-224-010		S-SCREW,SERR+1.4-3.5 CR L<789Y1>
21	87-HJ4-003-010		CABI,REAR 789 (ST)<789Y1>	P	85-HKD-201-010		S-SCREW,SR+1.4-2.2 CR<789Y1>
22	87-HJ3-015-010		KNOB,SL A<771YHS1>				
22	87-HR6-017-010		KNOB,SL E<789Y1>				
23	87-HR6-230-010		HLDL,JACK<771YHS1>				
23	87-HR6-231-010		HLDL,JACK LCD<789Y1>				

TAPE MECHANISM EXPLODED VIEW 1 / 1

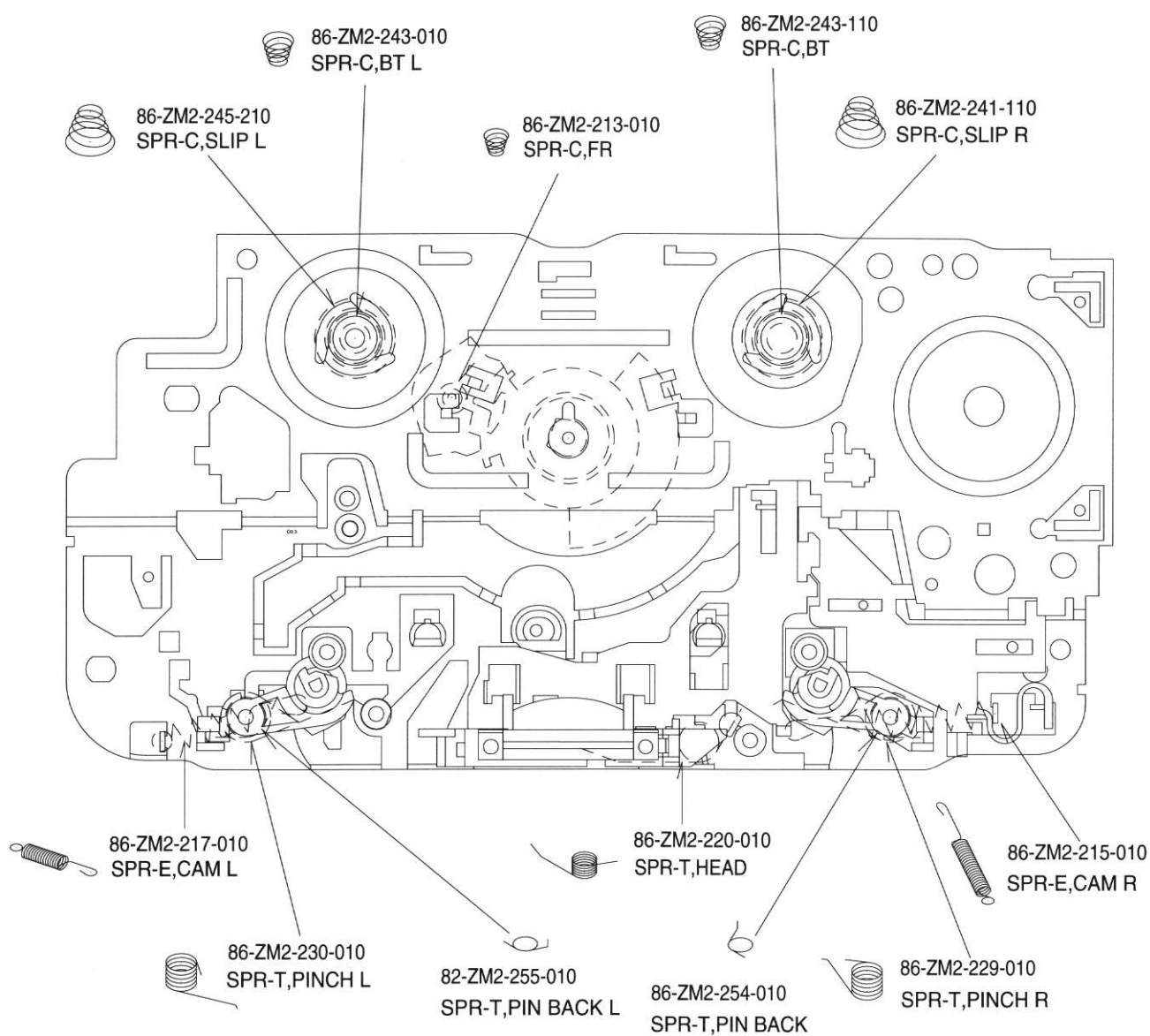


TAPE MECHANISM PARTS LIST 1 / 1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-ZM2-255-010		SPR-T, PIN BACK L	26	86-ZM2-235-010		SHAFT, REEL L
2	86-ZM2-286-110		GUIDE, TAPE REC	27	86-ZM2-223-010		LEVER, PIN UP L
3	86-ZM2-220-010		SPR-T, HEAD	28	86-ZM2-233-010		LEVER, REEL L
4	86-ZM2-285-110		LEVER, HEAD REC	29	86-ZM2-208-010		GEAR, A
5	86-ZM2-247-010		LEVER, MS	30	86-ZM2-217-010		SPR-E, CAM L
6	86-ZM2-226-010		ROLLER ASSY, PINCH	31	86-ZM2-216-010		LEVER, CAM L
7	86-ZM2-254-010		SPR-T, PIN BACK	32	84-ZM1-280-010		PULLY PM
8	86-ZM2-230-010		SPR-T, PINCH L	33	86-ZM2-243-010		SPR-C, BT L
9	86-ZM2-229-010		SPR-T, PINCH R	34	86-ZM2-214-010		LEVER, CAM R
10	86-ZM2-240-010		CAP, REEL	35	86-ZM2-215-010		SPR-E, CAM R
11	86-ZM2-234-010		SHAFT, REEL R	36	86-ZM2-222-010		LEVER, PIN UP R
12	86-ZM2-273-010		LEVER, SW 8.4	37	86-ZM2-218-010		LEVER, HEAD UP
13	86-ZM2-290-010		CHAS ASSY, P4	A	86-ZM2-296-010		S-SCREW, +1.4-8.45
14	86-ZS2-312-010		SPR-P, 6A-MOT	B	87-067-430-010		VT2+1.4-5 SWCH/CR BLK HL
15	86-ZM2-232-010		LEVER, REEL R	C	87-067-516-010		W-P, 1.58-3-0.25 SLIT
16	86-ZM2-258-210		GEAR, REW	D	87-067-860-010		W-P, 0.95-3-0.4
17	86-ZM2-243-110		SPR-C, BT	E	86-ZM2-277-010		W-P, 0.8-3-0.2 SLT
18	86-ZM2-302-010		BELT, R1	F	86-ZM2-269-110		SH, 1.2-2.9-0.25 SL
19	86-ZM2-209-010		GEAR, B	G	86-ZM2-279-010		W-L, 1.76-4-0.125
20	86-ZM2-238-010		GEAR, FF REW	H	86-ZM2-303-010		SPACER, 1.4-3-0.2
21	86-ZM2-245-210		SPR-C, SLIP L	I	86-ZM2-278-010		W-P, 1.36-4-0.2 SLT
22	86-ZM2-237-010		GEAR, PLAY				
23	86-ZM2-241-110		SPR-C, SLIP R				
24	86-ZM2-272-010		LEVER, SW P 8.4				
25	86-ZM2-236-010		CAP, SLIP				

SPRING APPLICATION POSITION



ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-HJ4-901-010		IB, EX-EC<789Y1>
2	87-B30-093-010		HEADPHONE, HP-MR016<771YHS>
2	87-B30-100-010		HEADPHONE, HP-MR018<789Y1>
3	86-HJ4-950-010		CASE, CARRYING
4	87-041-083-110		CM-S40A

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G-1	-
G-2	-
G-3	-

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