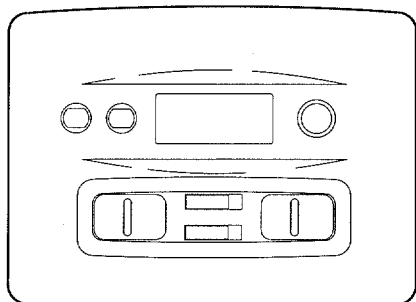


aiwa



HS-JX739



STEREO CASSETTE
RADIO RECORDER

• BASIC TAPE MECHANISM: 6ZM-2 R1

• TYPE: Y1

SERVICE MANUAL

SPECIFICATIONS

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 ohms)

Power sources: DC 3 V using two R03 (size AAA) dry cell batteries
AC house current using the optional AC adaptor
AC-620/AC-302

Maximum dimensions:

110.5 (W) × 80.1 (H) × 28.7 (D) mm
(4 ³/₈ × 3 ¹/₄ × 1 ³/₁₆ in)

Weight: Approx. 175 g (6.1 oz.) 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.

ACCESSORIES LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	86-HJ4-950-010		CASE, CARRYING
2	87-B30-068-010		HEADPHONE, HP-M007 (T)
3	87-HJ5-901-010		IB, EX-EC
4	87-041-083-110		MIC, CM-S40A

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

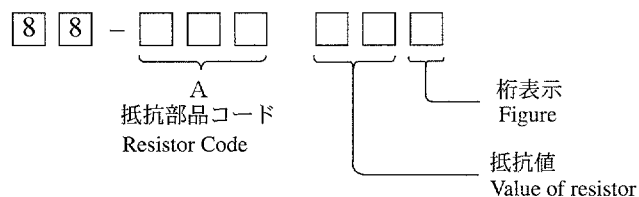
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC	87-002-423-080	C-IC,TA2002FN		C14	87-A10-249-080		C-CAP,U 1-10 Z F
	87-A20-580-040	C-IC,BA3641FV		C17	87-A10-420-080		C-CAP,TN 4.7-4 A TCF
	87-001-875-080	C-IC,BA1106FS		C18	87-016-396-080		C-CAP,U 0.22-16 F
	87-002-691-080	C-IC,BA3714F		C19	87-A10-249-080		C-CAP,U 1-10 Z F
	87-A20-588-040	C-IC,LB1977(V)		C20	87-A10-422-080		C-CAP,TN 10-4 A TCF
	87-A20-565-040	C-IC,TK71320M		C21	87-A10-263-080		C-CAP,U 0.1-16 Z F
	87-A20-628-080	C-IC,TA2046FNST		C22	87-A10-263-080		C-CAP,U 0.1-16 Z F
	87-001-145-080	C-IC,TA8126F		C23	87-012-275-080		C-CAP,U 1200P-50 K B
	87-A20-638-040	C-IC,PST9120		C24	87-012-275-080		C-CAP,U 1200P-50 K B
	87-070-076-040	C-IC,PST9015		C25	87-010-822-010		CAP,E 220-4 M MJ
	87-HJ3-620-010	C-IC,TC9327F-004		C26	87-010-822-010		CAP,E 220-4 M MJ
	87-A20-581-040	C-IC,S-29220APJ		C27	87-010-943-180		C-CAP,E 100-4 M MV
	87-A20-681-08	C-IC,RN5RZ20BA		C51	87-012-274-080		C-CAP,U 1000P-50 K B
				C52	87-012-274-080		C-CAP,U 1000P-50 K B
				C53	87-012-274-080		C-CAP,U 1000P-50 K B
				C54	87-012-274-080		C-CAP,U 1000P-50 K B
				C55	87-A10-249-080		C-CAP,U 1-10 Z F
				C56	87-A10-249-080		C-CAP,U 1-10 Z F
				C57	87-A10-249-080		C-CAP,U 1-10 Z F
				C58	87-A10-249-080		C-CAP,U 1-10 Z F
TRANSISTOR	89-115-884-080	C-TR,2SA1588Y		C59	87-A10-249-080		C-CAP,U 1-10 Z F
	87-026-418-080	C-TR,RN1311		C60	87-A10-249-080		C-CAP,U 1-10 Z F
	87-026-461-080	C-TR,1MH3		C61	87-A10-249-080		C-CAP,U 1-10 Z F
	89-508-804-080	C-FET,2SK880Y		C62	87-A10-249-080		C-CAP,U 1-10 Z F
	87-026-478-080	C-TR,RN2607		C63	87-A10-263-080		C-CAP,U 0.1-16 Z F
	87-026-470-080	C-TR,HN1C03FB		C64	87-A10-263-080		C-CAP,U 0.1-16 Z F
	87-026-678-080	C-TR,FMG5A		C65	87-015-923-080		C-CAP,TN 0.22-35 M ECS
	87-026-475-080	C-TR,RN1607		C66	87-015-923-080		C-CAP,TN 0.22-35 M ECS
	87-026-476-080	C-TR,RN1610		C67	87-010-787-080		C-CAP,U 0.022-25 K B
	87-026-481-080	C-TR,RN4607		C68	87-010-787-080		C-CAP,U 0.022-25 K B
	87-026-424-080	C-TR,RN2306		C69	87-A10-249-080		C-CAP,U 1-10 Z F
	89-113-625-080	C-TR,2SA1362GR		C70	87-A10-249-080		C-CAP,U 1-10 Z F
	87-026-477-080	C-TR,RN2605		C71	87-A10-249-080		C-CAP,U 1-10 Z F
	87-026-467-080	C-TR,HN1C01FGR		C72	87-A10-249-080		C-CAP,U 1-10 Z F
	89-341-165-080	C-TR,2SC4116GR		C73	87-010-584-080		C-CAP,TN 100-4 M 125
	89-327-125-080	C-TR,2SC2712GR		C74	87-012-286-080		C-CAP,U 0.01-25 K B
	89-333-266-080	C-TR,2SC3326B		C75	87-A10-418-080		C-CAP,TN 22-4 A TCF
	89-413-284-080	C-TR,2SD1328T		C76	87-A10-422-080		C-CAP,TN 10-4 A TCF
	87-026-414-080	C-TR,RN1307		C77	87-A10-418-080		C-CAP,TN 22-4 A TCF
	87-026-474-080	C-TR,RN1605		C101	87-012-282-080		C-CAP,U 4700P-50 K B
DIODE	87-026-567-080	C-TR,RN1611		C102	87-012-282-080		C-CAP,U 4700P-50 K B
	89-508-824-080	C-FET,2SK882Y		C103	87-010-828-080		C-CAP,U 0.033-16 Z F
	89-342-153-080	C-TR,2SC42150		C104	87-010-828-080		C-CAP,U 0.033-16 Z F
	87-A30-125-080	C-TR,1MB3A		C105	87-012-286-080		C-CAP,U 0.01-25 K B
	87-026-331-080	C-TR,DTA114YU		C106	87-012-286-080		C-CAP,U 0.01-25 K B
	87-026-417-080	C-TR,RN1310		C107	87-010-828-080		C-CAP,U 0.033-16 Z F
	87-A40-121-080	C-DIODE,RB715F		C108	87-010-828-080		C-CAP,U 0.033-16 Z F
	87-017-367-080	C-DIODE,DAP202U		C109	87-A10-263-080		C-CAP,U 0.1-16 Z F
	87-001-167-080	C-DIODE,1SS302		C110	87-A10-263-080		C-CAP,U 0.1-16 Z F
	87-001-166-080	C-DIODE,1SS301		C111	87-010-942-180		C-CAP,E 47-4 M MV
	87-A40-290-080	C-VARI-CAP,KV1590		C151	87-A10-249-080		C-CAP,U 1-10 Z F
	87-001-708-080	C-VARI-CAP,1SV228		C152	87-A10-249-080		C-CAP,U 1-10 Z F
	87-017-779-080	C-DIODE,1SS355		C153	87-A10-263-080		C-CAP,U 0.1-16 Z F
				C154	87-A10-263-080		C-CAP,U 0.1-16 Z F
				C155	87-A10-249-080		C-CAP,U 1-10 Z F
				C156	87-A10-249-080		C-CAP,U 1-10 Z F
				C159	87-A10-249-080		C-CAP,U 1-10 Z F
				C160	87-A10-249-080		C-CAP,U 1-10 Z F
				C251	87-A10-249-080		C-CAP,U 1-10 Z F
				C252	87-A10-249-080		C-CAP,U 1-10 Z F
MAIN C.B	C1	87-012-272-080	C-CAP,U 680P-50 K B GRM	C253	87-A10-263-080		C-CAP,U 0.1-16 Z F
	C2	87-012-272-080	C-CAP,U 680P-50 K B GRM	C254	87-012-277-080		C-CAP,U 1800P-50 K B
	C3	87-012-272-080	C-CAP,U 680P-50 K B GRM	C255	87-A10-263-080		C-CAP,U 0.1-16 Z F
	C4	87-012-272-080	C-CAP,U 680P-50 K B GRM	C256	87-010-396-080		C-CAP,U 0.22-16 F
	C5	87-012-286-080	C-CAP,U 0.01-25 K B	C257	87-015-923-080		C-CAP,TN 0.22-35 M ECS
	C6	87-A10-418-080	C-CAP,TN 22-4 A TCF	C261	87-A10-249-080		C-CAP,U 1-10 Z F
	C7	87-A10-418-080	C-CAP,TN 22-4 A TCF	C262	87-A10-249-080		C-CAP,U 1-10 Z F
	C8	87-A10-418-080	C-CAP,TN 22-4 A TCF	C301	87-A10-263-080		C-CAP,U 0.1-16 Z F
	C9	87-016-114-080	C-CAP,U 0.01-25 J B	C302	87-A10-353-080		C-CAP,U 0.22-10 K B
	C10	87-016-114-080	C-CAP,U 0.01-25 J B	C303	87-A10-504-080		C-CAP,U 0.047-16 K B
	C11	87-010-787-080	C-CAP,U 0.022-25 K B				
	C12	87-010-787-080	C-CAP,U 0.022-25 K B				
	C13	87-A10-249-080	C-CAP,U 1-10 Z F				

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C305	87-010-486-080		C-CAP,TN 0.33-35 ECS	C524	87-A10-249-080		C-CAP,U 1-10 Z F
C306	87-A10-504-080		C-CAP,U 0.047-16 K B	C525	87-012-199-080		C-CAP,U 220P-50 J CH
C307	87-A10-504-080		C-CAP,U 0.047-16 K B	C526	87-010-830-080		C-CAP,U 0.068-16 Z F
C308	87-A10-504-080		C-CAP,U 0.047-16 K B	C527	87-010-831-080		C-CAP,U 0.1-16 Z F
C309	87-A10-263-080		C-CAP,U 0.1-16 Z F	C528	87-010-831-080		C-CAP,U 0.1-16 Z F
C310	87-A10-263-080		C-CAP,U 0.1-16 Z F	C529	87-012-273-080		C-CAP,U 820P-50 K B
C351	87-A10-249-080		C-CAP,U 1-10 Z F	C530	87-016-296-080		C-CAP,TN 22-4 M
C352	87-010-522-080		C-CAP,TN 2.2-10 ECS	C531	87-016-314-080		C-CAP,S 1-16 Z F
C401	87-012-286-080		C-CAP,U 0.01-25 K B	C532	87-012-286-080		C-CAP,U 0.01-25 K B
C402	87-012-279-080		C-CAP,U 2700P-50 K B GRM	C533	87-012-286-080		C-CAP,U 0.01-25 K B
C403	87-012-286-080		C-CAP,U 0.01-25 K B	C534	87-010-197-080		C-CAP,S 0.01-25 K B
C404	87-A10-418-080		C-CAP,TN 22-4 A TCF	C535	87-012-195-080		C-CAP,U 100P-50 J CH
C405	87-012-278-080		C-CAP,U 2200P-50 K B	C536	87-010-831-080		C-CAP,U 0.1-16 Z F
C406	87-012-270-080		C-CAP,U 470P-50 K B	C537	87-012-278-080		C-CAP,U 2200P-50 K B
C451	87-010-822-010		CAP,E 220-4 M MJ	C538	87-010-787-080		C-CAP,U 0.022-25 K B
C452	87-010-822-010		CAP,E 220-4 M MJ	C539	87-010-787-080		C-CAP,U 0.022-25 K B
C453	87-A10-418-080		C-CAP,TN 22-4 A TCF	C540	87-A10-594-080		C-CAP,TN 10-4 A2 MSV
C454	87-A10-418-080		C-CAP,TN 22-4 A TCF	C541	87-010-831-080		C-CAP,U 0.1-16 Z F
J1	87-099-658-110		JACK, 3.5 BLK ST TWIN	C542	87-012-286-080		C-CAP,U 0.01-25 K B
J451	87-A60-352-010		JACK,DC 3.8 MJC003-A	C601	87-010-505-080		C-CAP,TN 1-16 ECS
L1	84-HJ9-616-110		COIL, LOADING3.3	C602	87-010-787-080		C-CAP,U 0.022-25 K B
L2	87-003-240-080		C-COIL,2125 3.3UH K MLF2012	C604	87-012-276-080		C-CAP,U 1500P-50 K B
L3	87-003-240-080		C-COIL,2125 3.3UH K MLF2012	C605	87-012-172-080		C-CAP,U 10P-50 D CH
L4	87-003-240-080		C-COIL,2125 3.3UH K MLF2012	C607	87-012-156-080		C-CAP,S 220P-50 J CH GRM
L401	87-HJ3-605-080		C-COIL,OSC BIAS	C608	87-A10-249-080		C-CAP,U 1-10 Z F
PS351	87-026-504-010		SNSR, PHOTO NJL5164KF	C609	87-012-195-080		C-CAP,U 100P-50 J CH
R5	87-022-279-080		C-RES,U 470-1/16W F	C610	87-A10-249-080		C-CAP,U 1-10 Z F
R6	87-022-279-080		C-RES,U 470-1/16W F	C701	87-012-286-080		C-CAP,U 0.01-25 K B
R9	87-022-292-080		C-RES,U 330K-1/16W F	C702	87-012-286-080		C-CAP,U 0.01-25 K B
R10	87-022-292-080		C-RES,U 330K-1/16W F	C703	87-010-197-080		C-CAP,S 0.01-25 K B
R11	87-022-243-080		C-RES,U 15K-1/16W F	C704	87-016-491-080		C-CAP,S 0.22-16 Z F C2021
R12	87-022-243-080		C-RES,U 15K-1/16W F	C705	87-A10-048-080		C-CAP,TN 22-4 M F95
SFR1	87-024-614-080		C-SFR,K 33K H EVM 3SS	C706	87-A10-025-080		C-CAP,U 0.1-16 Z F
SW201	87-A90-330-080		C-SW,SL 1-1-2 SSSS81 T1.4	C707	87-012-172-080		C-CAP,U 10P-50 D CH
SW401	87-A90-330-080		C-SW,SL 1-1-2 SSSS81 T1.4	C708	87-012-172-080		C-CAP,U 10P-50 D CH
SW481	87-HJ3-608-010		SW,LEAF REC ASSY	C709	87-010-831-080		C-CAP,U 0.1-16 Z F
SW482	87-HJ3-608-010		SW,LEAF REC ASSY	C710	87-010-831-080		C-CAP,U 0.1-16 Z F
SW483	87-A90-455-010		SW,PUSH HW4001	C711	87-010-831-080		C-CAP,U 0.1-16 Z F
SW484	87-036-236-080		C-SW,SL 1-1-2 SSSS81	C712	87-010-831-080		C-CAP,U 0.1-16 Z F
SW485	87-A90-356-010		SW,LEAF 6ZM-2	C901	87-010-505-080		C-CAP,TN 1-16 ECS
TH301	87-A90-477-080		C-THMS,157-502-53002-TP	C902	87-A10-048-080		C-CAP,TN 22-4 M F95
VR1	87-A90-538-080		C-VR,RTYR 20KAX2 XV0103G	CF503	87-A90-456-080		C-FLTR,PFWCC 450J3
TUNER C.B				CT501	87-011-189-080		C-TRIMMER,CER 10P 4.5X3.2 CTZ
	87-HR6-613-010		PWB,FLEX TU 34P	L501	87-HR6-616-010		BAR-ANT,MW
CF501,	CF502, X501			L502	85-HR4-626-080		COIL,FM RF
	87-A90-525-080		C-FLTR,CFKMFCS140 -AB-TC-KIT	L503	87-003-247-080		C-COIL, 100UH J LQH3
BPF501	87-008-406-080		C-FLTR,BPF GFMB1	L504	85-HR4-625-080		COIL,FM OSC
C501	87-012-195-080		C-CAP,U 100P-50 J CH	L505	87-008-420-080		C-IFT MW 5M S5CDLN-1431AYV
C502	87-A10-249-080		C-CAP,U 1-10 Z F	L601	87-006-173-080		C-COIL,DD 5CDL
C503	87-012-195-080		C-CAP,U 100P-50 J CH	LCD701	87-HJ3-615-010		LCD,TC9327F-004
C504	87-012-195-080		C-CAP,U 100P-50 J CH	LED1001	87-A90-278-080		C-LED,SML-210VT RED
C505	87-010-831-080		C-CAP,U 0.1-16 Z F	S701	87-A90-214-080		C-SW,SL 1-1-2 SSSS8A2-B
C506	87-010-829-080		C-CAP,U 0.047-16 Z F	S702	87-A90-378-080		C-SW,PUSH PT035C1T
C507	87-010-787-080		C-CAP,U 0.022-25 K B	S703	87-A90-378-080		C-SW,PUSH PT035C1T
C508	87-012-286-080		C-CAP,U 0.01-25 K B	S704	87-036-308-180		C-SW,TACT 112HST
C509	87-010-318-080		C-CAP,S 47P-50 J CH	S705	87-036-308-180		C-SW,TACT 112HST
C510	87-012-168-080		C-CAP,U 6P-50 D CH	S706	87-036-308-180		C-SW,TACT 112HST
C511	87-012-186-080		C-CAP,U 39P-50 J CH	S707	87-036-308-180		C-SW,TACT 112HST
C512	87-012-140-080		C-CAP,S 470P-50 J CH	S708	87-036-308-180		C-SW,TACT 112HST
C513	87-012-247-080		C-CAP,U 18P-50 J UJ	S709	87-036-308-180		C-SW,TACT 112HST
C514	87-012-286-080		C-CAP,U 0.01-25 K B	S710	87-036-308-180		C-SW,TACT 112HST
C515	87-010-787-080		C-CAP,U 0.022-25 K B	S711	87-036-203-180		C-SW,SL 1-1-3 SSSS81
C517	87-010-316-080		C-CAP,S 33P-50 J CH	X502	87-A70-083-010		VIB, KBR-912F103
C518	87-010-318-080		C-CAP,S 47P-50 J CH	X701	87-A70-078-010		VIB,XTAL 75KHZ KF-26R5
C519	87-012-162-080		C-CAP,U 1P-50 C CH	HEAD FLEX C.B, EH FLEX C.B			
C520	87-012-172-080		C-CAP,U 10P-50 D CH		86-ZM2-293-010		HEAD ASSY,R1
C521	87-012-286-080		C-CAP,U 0.01-25 K B				
C522	87-012-286-080		C-CAP,U 0.01-25 K B				
C523	87-A10-249-080		C-CAP,U 1-10 Z F				

○ 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

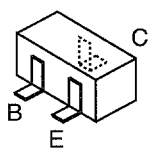


チップ抵抗

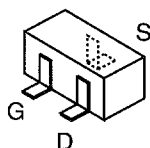
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法 / Dimensions (mm)				抵抗コード : A Resistor Code : A
				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

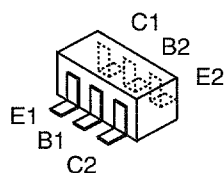
TRANSISTOR ILLUSTRATION



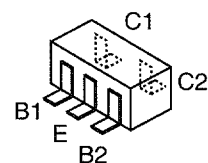
2SA1362
2SA1588
2SC2712
2SC3326
2SC4116
2SC4215
2SD1328T
DTC114YU
RN1307
RN1310
RN1311
RN2306



2SK880
2SK882



HN1A01F
IMB3
IMH3
RN1605
RN1607
RN1610
RN1611
RN2605
RN2607
RN4607



FMG5A

LCD DISPLAY

MONO

AM
FM
TV

ON
ON1

REV
R

1-1

1H
1A
1B
1C
1D

ON
ON2

M1

2

2H
2A
2B
2C
2D

NORHI

M2

3

3H
3A
3B
3C
3D

ON
ON3

M3

4

4H
4A
4B
4C
4D

ON
ON3

M4

5

5H
5A
5B
5C
5D

PRE
PRESET
kHz
MHz

FWÐ

6

6H
6A
6B
6C
6D

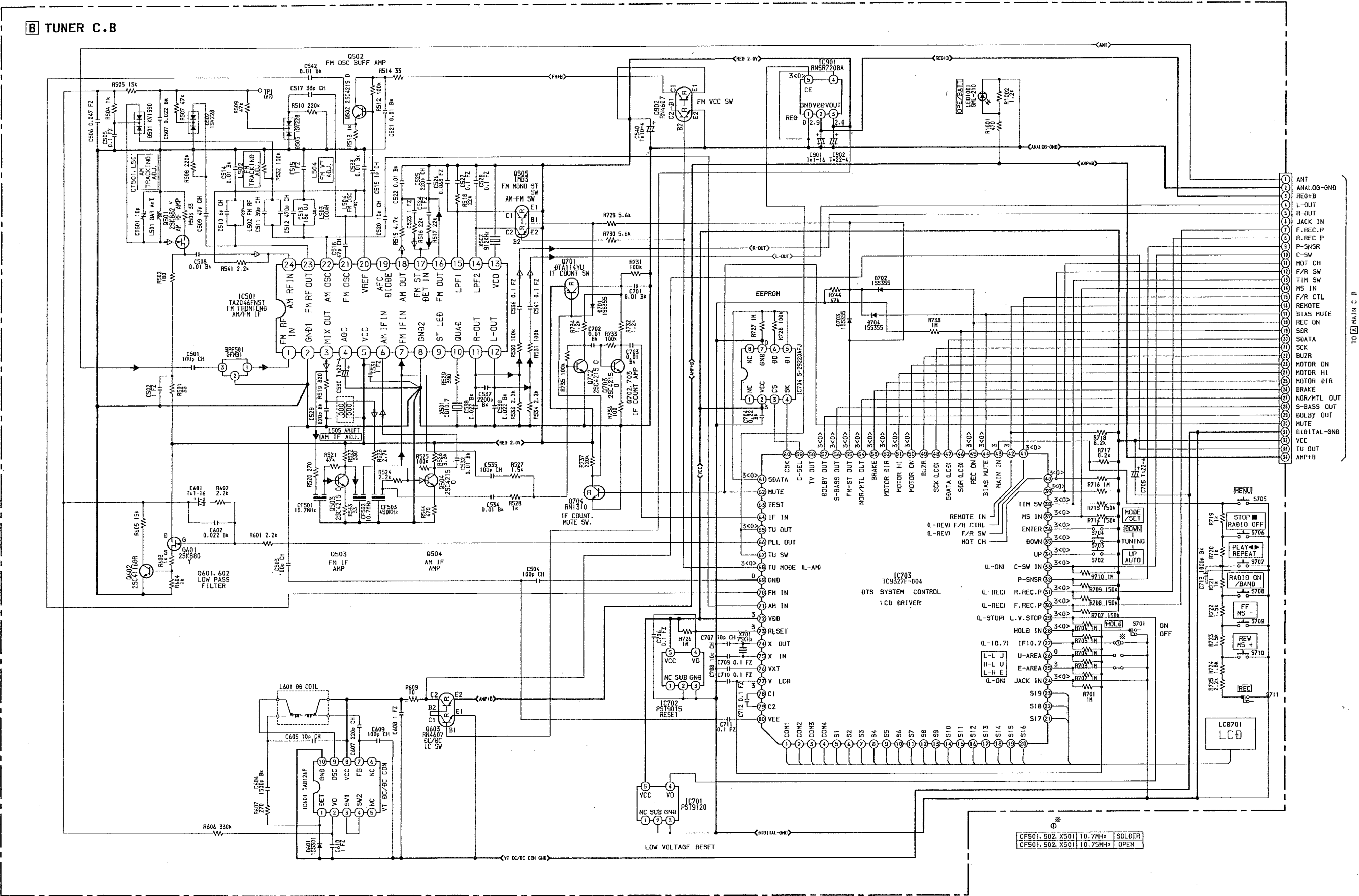
REC
MS

RM1

RM2

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	1Ð	M1	NOR	2Ð	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	3Ð	M4	ON3	4Ð	MHz	RM1	RM2	5Ð	MS	6Ð	

A horizontal number line with tick marks at every integer from 1 to 14. The numbers are labeled above the line.





IC DESCRIPTION

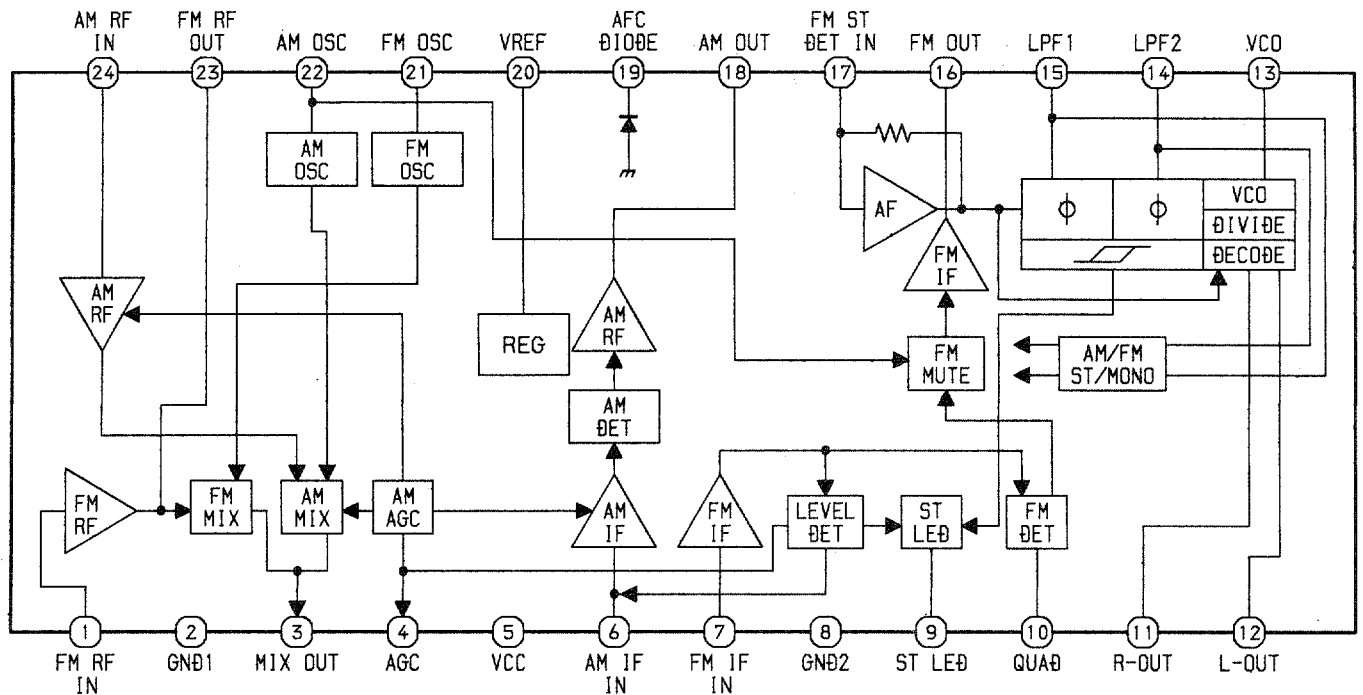
IC, TC9327F-004

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 inverted 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

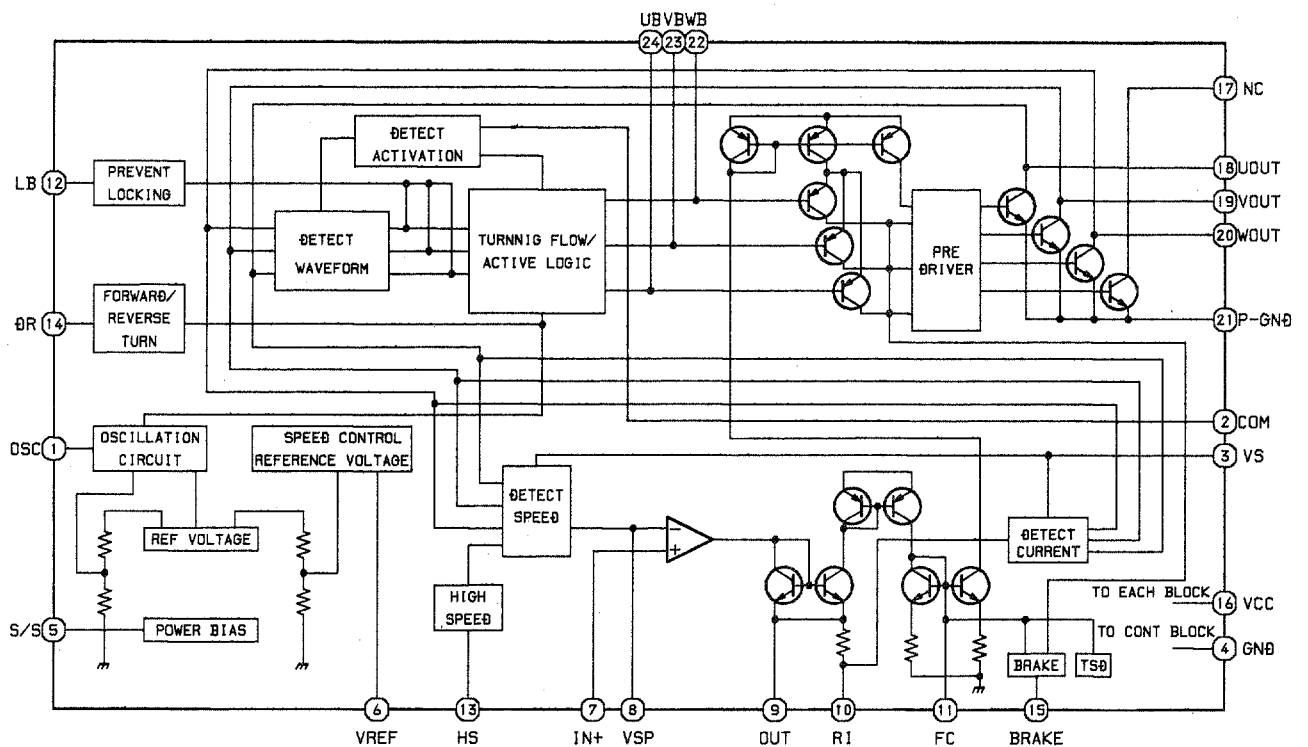
Pin No.	Pin Name	I/O	Description
62	MUTE	O	Muting output. H : MUTE ON L : OFF
63	TEST	—	NC.
64	IF IN	I	IF signal input pin.
65	TU OUT	O	H : TU ON L : OFF
66	PLL OUT	O	PLL output pin.
67	TU SW	I	TU mode input. H : TU mode L : OFF
68	TU MODE	O	H : FM mode L : AM mode
69	GND	—	GND.
70	FM IN	I	FM programmable 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.

IC BLOCK DIAGRAM

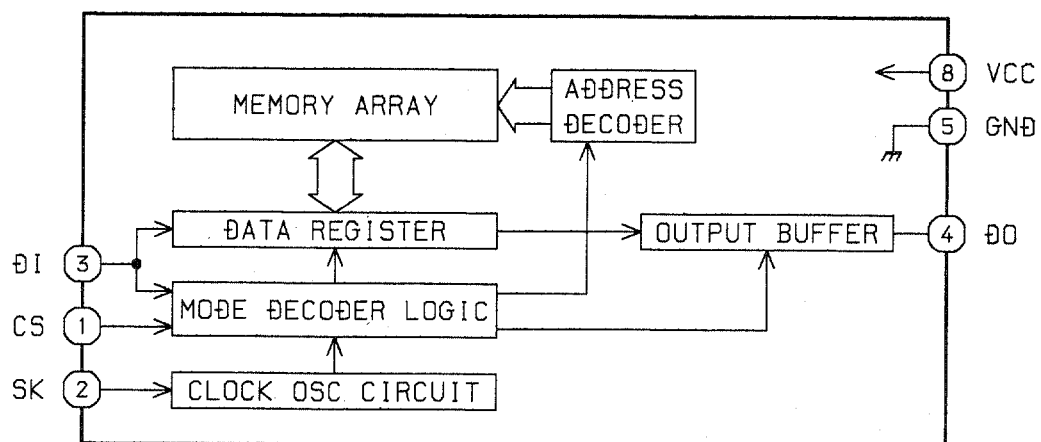
IC, TA2046FNS



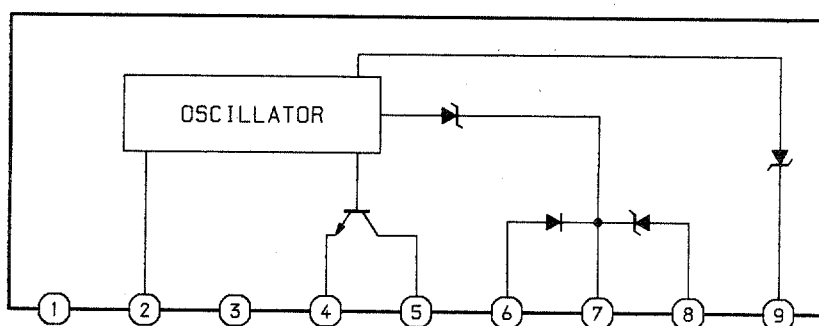
IC, LB1977(V)



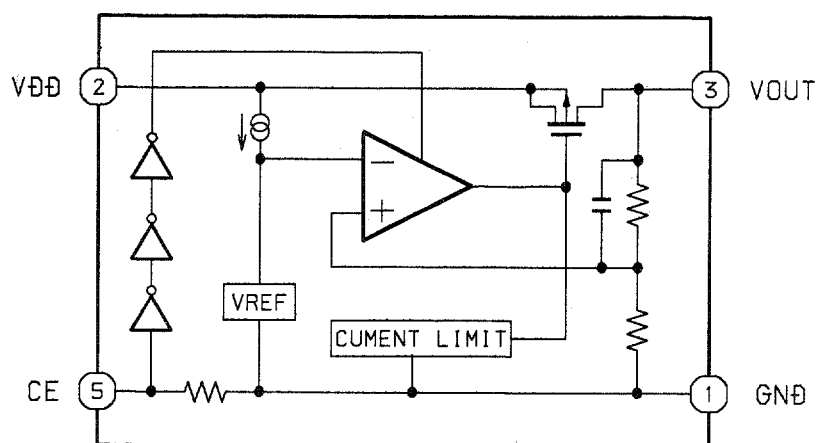
IC, S-29220AFJ



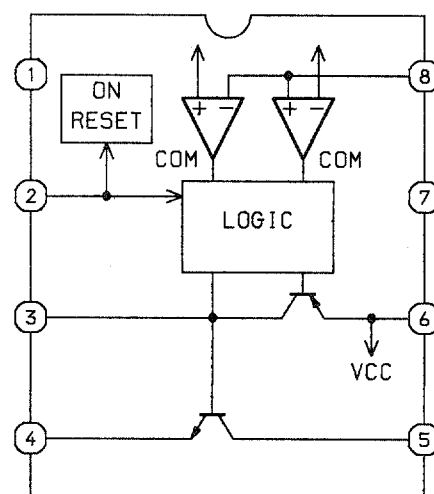
IC, TA8126F



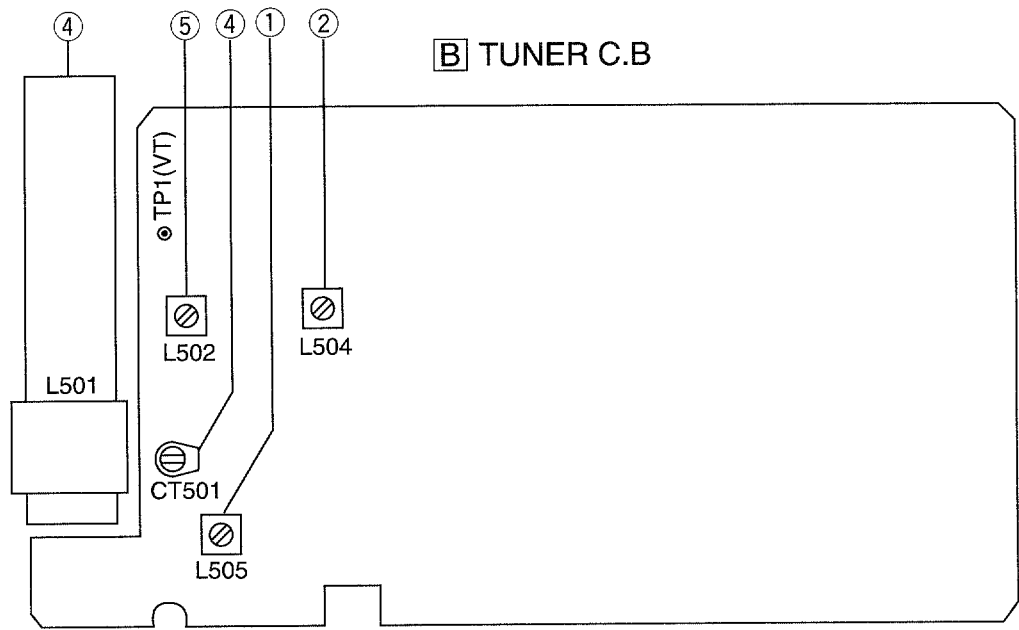
IC, RN5RZ20BA



IC, BA3714F



ADJUSTMENT

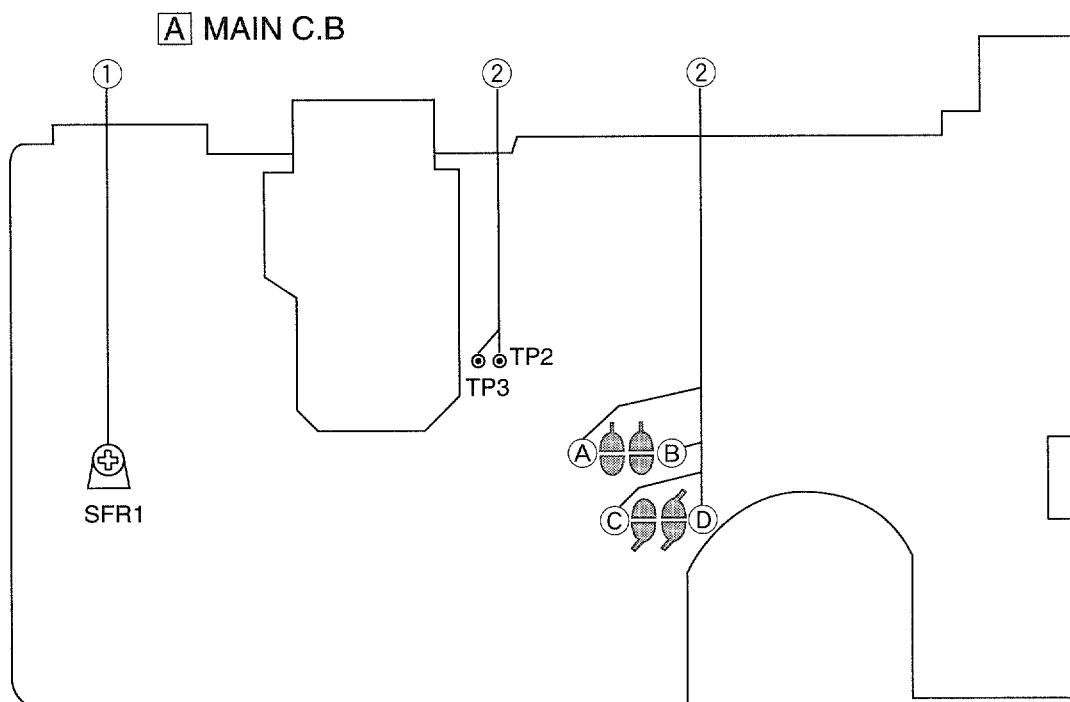


<RADIO SECTION>

- 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 and TP1, check the voltage for less than 9.0 V.
- 3. AM VT Check
Settings: • Test point : TP1
Method: Set to AM 530 kHz (1710 kHz) and TP1, check the voltage for less than 9.0 V.
- 4. AM Tracking Adjustment
L501 630 kHz
CT501 1440 kHz
- 5. FM Tracking Adjustment
L502 87.5 MHz

PRACTICAL SERVICE FIGURE

<RADIO SECTION>		
Sensitivity : (IHF, THD 3%)	FM	Less than 18 dB (87.5 / 98.0 / 108.0 MHz)
	AM	Less than 58 dB (630 kHz) Less than 57 dB (999 kHz) Less than 56 dB (1440 kHz)
	Intermediate frequency :	FM 10.7 MHz AM 450 kHz
	FM stereo separation :	FM More than 16dB (98.5 MHz)



<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 3015 ± 10 Hz at FWD and ± 40 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)
 - DOLBY SW : OFF
 - SUPER BASS : OFF
 - VOLUME : MIN

Method: Connect an electrolytic capacitor ($10 \mu\text{F} / 16 \text{V}$) to measured equipment and TP2 (3), adjust for solder touch of pattern (A), (B) (Lch), (C), (D) (Rch) and the voltage $100 \text{mV} \pm 1.0 \text{dB}$.

PRACTICAL SERVICE FIGURE

<RADIO SECTION>

Tape speed :	$3015 \text{ Hz} \pm 50 \text{ Hz}$
Wow & flutter :	Less than $0.52 \% \text{ (RMS)}$
Pinch roller pressure :	95 g (FWD, REV)
Take-up torque :	$20 \sim 30 \text{ g-cm}$ (FWD, REV)
F. F torque :	$100 \sim 150 \text{ g-cm}$
REW torque :	$100 \sim 150 \text{ g-cm}$
Back tension :	$1 \sim 3 \text{ g-cm}$ (FWD, REV)
S/N ratio :	More than 45 dB (DC, PB)
Distortion :	Less than $3.0 \% \text{ (DC, PB)}$
Noise level :	Less than 3.0 mV (Vol MAX, DC)
Frequency response :	$63 \text{ Hz} \pm 4 \text{ dB} \sim 8 \text{ kHz} \pm 3.5 \text{ dB}$ (NORMAL, PB)
	$63 \text{ Hz} \pm 4 \text{ dB} \sim 10 \text{ kHz} \pm 3.5 \text{ dB}$ (CrO2, METAL, PB)

This exploded view diagram illustrates the assembly of a portable electronic device. The components are numbered 1 through 28, and letters A through N indicate specific assembly points or orientations. Key components include:

- 1:** A small connector or plug.
- 2:** The main housing or chassis.
- 3:** A component labeled LCD701, likely a liquid crystal display.
- 4:** A small rectangular component.
- 5:** A small component, possibly a switch or button.
- 6:** A component labeled TUNER C.B., likely a tuning circuit board.
- 7:** A small component, possibly a switch or button.
- 8:** A component labeled SW481, likely a switch.
- 9:** A component labeled SW482, likely a switch.
- 10:** A component labeled MAIN C.B., likely the main circuit board.
- 11:** A component labeled 6ZM-2 R1, likely a resistor.
- 12:** A component labeled PLATE, BATT P, likely a battery plate.
- 13:** A component labeled SPACER, PWB, likely a spacer for the printed wiring board.
- 14:** A component labeled J451, likely a connector.
- 15:** A component labeled J1, likely a connector.
- 16:** A component labeled J20, likely a connector.
- 17:** A component labeled J21, likely a connector.
- 18:** A component labeled J22, likely a connector.
- 19:** A component labeled J23, likely a connector.
- 20:** A component labeled J24, likely a connector.
- 21:** A component labeled J25, likely a connector.
- 22:** A component labeled J26, likely a connector.
- 23:** A component labeled J27, likely a connector.
- 24:** A component labeled J28, likely a connector.
- 25:** A component labeled J29, likely a connector.
- 26:** A component labeled J30, likely a connector.
- 27:** A component labeled J31, likely a connector.
- 28:** A component labeled J32, likely a connector.

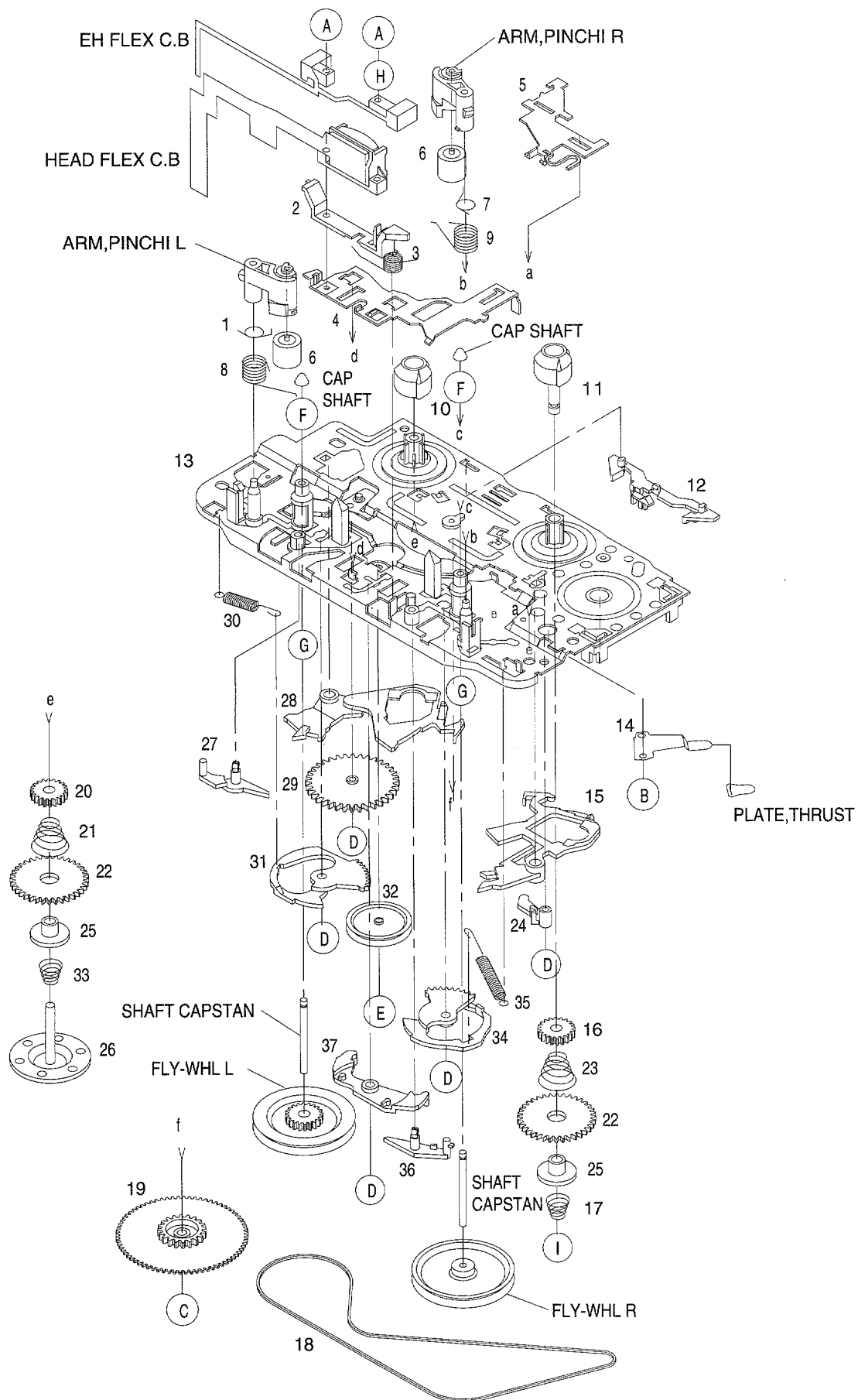
The diagram shows the assembly sequence from the main housing (2) down to the various components and connectors (1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28).

MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
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	26	87-HR6-206-010		HLDR, LCD
2	09-028-330-010		LID CASS, ASSY	27	87-HJ3-014-010		KNOB, SL REC
3	87-HR6-013-010		KEY, TUNING	28	87-HR6-205-010		HLDR, ANT
4	87-HR6-225-010		CONN, RUBBER LCD	A	85-HR4-216-010		SCRW-SR, 1.4-4 BL
5	87-HR6-212-010		SPR-P, CLICK	B	85-HK6-208-010		S-SCREW, SR+1.4-2.2 BL
6	87-HR6-204-010		HLDR, CASS	C	87-067-732-010		VT2+1.4-3 CR BLK HL
7	87-HR6-219-010		SPR-P, POP UP	D	87-067-385-010		VT2+1.4-2.5 SWCH HL
8	87-HR6-001-010		FRAME, CENTER	E	87-078-216-010		S-SCREW, SR+1.4-14 BLK
9	87-HR6-208-010		PLATE, EJECT	F	87-078-184-010		S-SCREW, SR+1.4-1.8 SWCH/ZN BLK
10	87-HR6-015-010		KNOB, SL OPEN	G	87-HK5-235-010		S-SCREW, 1.4-0.6-2.5
11	87-HR6-209-010		SPR-P, CASS	H	86-HK4-223-010		S-SCREW, SERR+1.4-3.5 B L
12	87-HR6-201-010		PLATE, HINGE	I	87-067-405-010		VT2+1.4-6 SWCH HL
13	87-HK6-217-010		SPR-P, GND	J	87-078-147-010		S-SCREW, SERR1.4-3 B
14	87-HK5-210-010		SPR-E, EJECT	K	87-078-113-010		S-SCREW, +1.4-3.5 SWCH HL
15	87-HR6-207-010		PLATE, LOCK	L	87-067-746-010		S-SCREW, SERR+1.4-2 SWCH/CR
16	87-HR6-203-010		PLATE, FRONT	M	87-067-738-010		S-SCREW, HINGE+1.4-1 SWCH/CR BL
17	87-HR6-211-010		SPR-C, BAT M	N	87-HK6-219-010		S-SCREW+1.4-1-0.3 B
18	87-HR6-218-010		SHAFT, BAT				
19	87-HR6-008-010		LID, BAT				
20	87-HR6-202-010		PLATE, SIDE				
21	87-HJ5-003-010		CABI, REAR J5				
22	87-HJ3-015-010		KNOB, SL A				
23	87-HR6-230-010		HLDR, JACK				
24	87-HJ3-202-010		SPR-E, REC				
25	87-HR6-210-010		HLDR, FLEX				

TAPE MECHANISM EXPLODED VIEW 1/1

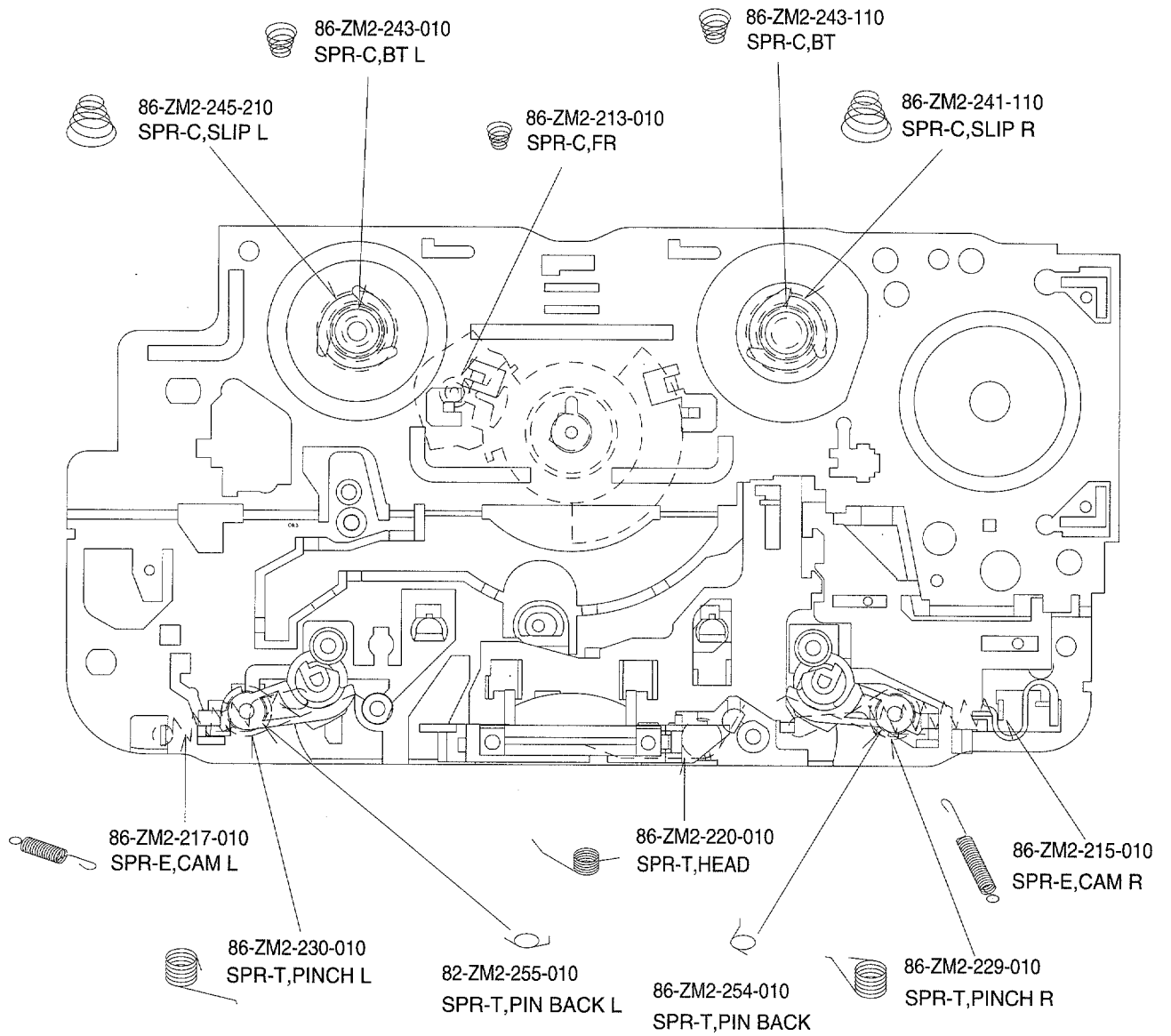


TAPE MECHANISM PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
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



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
TRIMMER	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

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