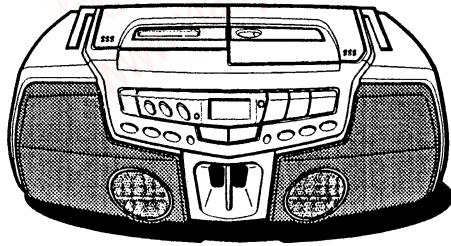




CSD-FD92 U(S)

CSD-FD94 HRJ(S),EZ(S)



SERVICE MANUAL

COMPACT DISC STEREO
RADIO CASSETTE RECORDER

BASIC TAPE MECHANISM : 2ZM-1 R15NF
BASIC CD MECHANISM : BZG-6 BNF

This Service Manual is the "Revision Publishing" and replaces "Simple Manual"
(S/M Code No. 09-014-355-8T1).

aiwa

S/M Code No. 09-014-355-8R1

REVISION
DATA

SPECIFICATIONS

CSD-FD94 HRJ MODEL

Tuner section

Frequency range antenna — FM: 87.5 - 108.0 MHz
Rod antenna, AM: 531/530 - 1 602/1,710 kHz (9/10 kHz step) Ferrite bar antenna

Deck section

Track format — 4 tracks 2 channels / Frequency range — Normal tape: 50 - 12,500 Hz (EIAJ) / Recording system — AC bias / Erasing system — AC erase / Heads — Recording/playback head (1) Erasure head (1)

CD player section

Disc — Compact disc / Scanning method — Non contact optical scanner (semiconductor laser)

General

Speaker — 100 mm cone type (2) 36 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 4.5 W + 4.5 W (EIAJ 3.2 ohms, T.H.D. 10%), 3.3 W + 3.3 W (DIN 1% Rated Power) / Power requirements — DC 12 V using eight size C (R14) batteries AC 110-120 V/ 220-240 V switchable, 50/60 Hz / Power consumption — 23 W / Dimensions (W x H x D) — 465 x 181 x 284 mm / Weight (excluding batteries) — 4.1 kg

- Design and specifications are subject to change without notice.

CSD-FD94 EZ MODEL

Tuner section

Frequency range, antenna — FM: 87.5 - 108.0 MHz
Rod antenna, MW: 531/530 - 1,602/1,710 kHz (9/10 kHz step) Ferrite bar antenna, LW: 144 - 290 kHz
Ferrite bar antenna

Deck section

Track format — 4 tracks, 2 channels / Frequency range — Normal tape: 50 - 12,500 Hz (EIAJ) / Recording system — AC bias / Erasing system — AC erase / Heads — Recording/playback head (1), Erasure head (1)

CD player section

Disc — Compact disc / Scanning method — Non-contact optical scanner (semiconductor laser)

General

Speaker — 100 mm cone type (2), 36 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 5 W + 5 W (DIN MUSIC POWER), 4.5 W + 4.5 W (EIAJ 3.2 ohms, T.H.D. 10%), 3.3 W + 3.3 W (DIN 1% Rated Power) / Power requirements — DC 12 V using eight size C (R14) batteries, AC 230 V, 50 Hz / Power consumption — 22 W / Dimensions (W x H x D) — 460 x 192 x 262 mm / Weight (excluding batteries) — 4.0 kg

- Design and specifications are subject to change without notice.

CSD-FD92 U MODEL

Tuner section

Frequency range, antenna — FM: 87.5 - 108.0 MHz
Rod antenna, AM: 530/531 - 1,710/1,602 kHz (10/9 kHz step) Ferrite bar antenna

Deck section

Track format — 4 tracks, 2 channels / Frequency range — Normal tape: 50 - 12,500 Hz (EIAJ) / Recording system — AC bias / Erasing system — AC erase / Heads — Recording/playback head (1), Erasure head (1)

CD player section

Disc — Compact disc / Scanning method — Non-contact optical scanner (semiconductor laser)

General

Speaker — 100 mm cone type (2), 36 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 2.5 W + 2.5 W (EIAJ, 7 ohms DC) / Power requirements — DC 12 V using eight size C (R14) batteries, AC 120 V, 60 Hz / Power consumption — 15 W / Dimensions (W x H x D) — 460 x 192 x 262 mm (18 1/8 x 7 5/8 x 10 3/8 in.) / Weight (excluding batteries) — 4.0 kg (8 lbs. 13 oz.)

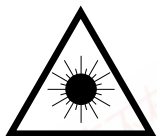
- Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylitävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstråling, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

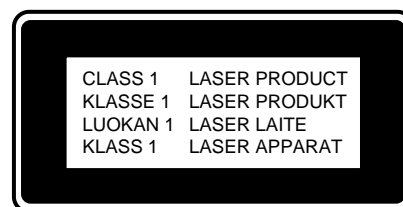
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

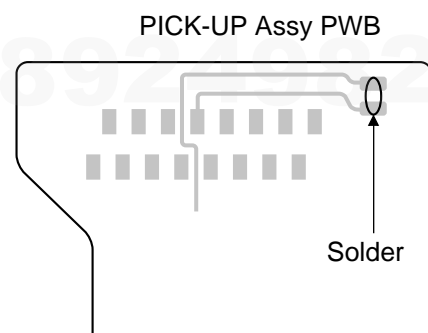
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



Precaution to replace Optical block (PXR-104X-AP-0101)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in the right figure.



ELECTRICAL MAIN PARTS LIST-1/4

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				C236	87-A11-148-080		CAP,TC U 0.1-50 Z F
	87-A21-550-010	IC,TA2149N		C237	87-010-370-080		CAP,E 330-6.3 SME
	87-A21-185-040	IC,LC72121D-N		C238	87-010-263-080		CAP, ELECT 100-10V
	87-020-454-010	IC,DN6851		C239	87-012-286-080		CAP, U 0.01-25
	87-070-289-040	IC,BU 2092F<FD92USTF>		C240	87-012-286-080		CAP, U 0.01-25
	8B-CH4-602-010	C-IC,LC867132V-BCH-4		C241	87-010-400-080		CAP, ELECT 0.47-50V
	87-A21-090-010	IC,LA4600		C242	87-010-400-080		CAP, ELECT 0.47-50V
	87-A21-520-040	C-IC,M61509FP		C243	87-010-401-080		CAP, ELECT 1-50V
	87-A20-911-010	IC,RPM6938		C244	87-010-401-080		CAP, ELECT 1-50V
	87-A21-419-040	C-IC,NJM14558MD-TE2		C245	87-010-401-080		CAP, ELECT 1-50V
	87-A20-446-010	C-IC,LA9241ML		C246	87-010-401-080		CAP, ELECT 1-50V
	87-A21-319-010	C-IC,LC78622NE		C247	87-010-402-080		CAP, ELECT 2.2-50V
	87-A21-891-010	C-IC,MM1469XH		C248	87-010-402-080		CAP, ELECT 2.2-50V
TRANSISTOR				C255	87-A12-090-080		CAP,E 4.7-50 SMG
	89-327-143-080	TR,2SC2714 (0.1W)		C263	87-012-274-080		CHIP CAP,U 1000P-50B
	87-026-462-080	TR,2SC1740 S(RS 0.3W)		C264	87-010-544-080		CAP, ELECT 0.1-50V
	89-111-624-080	TR,2SA1162Y		C266	87-010-544-080		CAP, ELECT 0.1-50V
	87-A30-288-040	C-TR,DTC114YKA		C271	87-A10-730-080		CAP,E 1000-16 SMG<EXCEPT FD92USTF>
	89-503-025-080	CHIP FET,2SK302 GR<FD94EZSF>		C271	87-A12-068-080		CAP,E 470-16 SMG<FD92USTF>
	89-320-011-080	TR,2SC2001 (15W)		C272	87-A10-730-080		CAP,E 1000-16 SMG<EXCEPT FD92USTF>
	87-A30-283-040	C-TR,DTA114YKA<FD94EZSF>		C272	87-A12-068-080		CAP,E 470-16 SMG<FD92USTF>
	89-327-125-080	CHIP TR,2SC2712GR		C273	87-012-274-080		CHIP CAP,U 1000P-50B
	87-026-245-080	TR,DTC114ES<FD92USTF>		C274	87-018-131-080		CAP, CER 1000P-50V
	87-A30-432-040	C-TR,DTC124XKA		C275	87-012-274-080		CHIP CAP,U 1000P-50B
	87-026-463-080	TR,2SA933S (0.3W)		C277	87-010-404-080		CAP, ELECT 4.7-50V
	87-026-610-080	TR,KTC3198GR		C278	87-A12-062-080		CAP,E 100-10 SMG
	87-A30-090-080	FET,2SK2541		C279	87-A12-062-080		CAP,E 100-10 SMG
	89-110-155-080	TR,2SA1015 (0.4W)		C287	87-012-273-080		C-CAP,U 820P-50 B
	87-A30-190-080	TR,CC5551<FD94EZSF>		C288	87-012-273-080		C-CAP,U 820P-50 B
	87-A30-436-040	C-TR,DTC144TKA		C289	87-012-156-080		C-CAP,S 220P-50 CH
	87-A30-435-040	C-TR,DTC144EK T146		C290	87-012-156-080		C-CAP,S 220P-50 CH
	87-A30-287-040	C-TR,DTC114TKA		C301	87-012-274-080		CHIP CAP,U 1000P-50B
	87-A30-433-040	C-TR,DTC143XKA		C302	87-012-274-080		CHIP CAP,U 1000P-50B
	87-A30-427-040	C-TR,DTC114EKA		C305	87-A12-062-080		CAP,E 100-10 SMG
	89-112-965-080	TR,2SA1296 (0.75W)		C306	87-A12-062-080		CAP,E 100-10 SMG
	87-A30-515-080	TR,2SA19790/Y		C307	87-012-285-080		C-CAP,U 8200P-50 B
	87-A30-273-040	C-TR,DTC124EKA		C308	87-012-285-080		C-CAP,U 8200P-50 B
	89-109-521-080	TR,2SA952 (0.6W)		C311	87-010-546-080		CAP, ELECT 0.33-50V
	87-026-291-080	TR,DTC124XS		C312	87-010-546-080		CAP, ELECT 0.33-50V
	87-A30-492-080	TR,2SC5343G<FD94HRJSF>		C313	87-012-283-080		C-CAP,U 5600P-50 B
	87-A30-630-080	TR,2SC5343GL		C314	87-012-283-080		C-CAP,U 5600P-50 B
	89-213-702-010	TR,2SB1370 (1.8W)		C321	87-018-205-080		CAP, CERA-SOL 0.022
DIODE				C323	87-012-271-080		CAP, U 560P-50
	87-070-345-080	DIODE,IN4148		C324	87-012-271-080		CAP, U 560P-50
	87-A40-616-070	VARI-CAP,SVC384 (S/T)		C331	87-018-126-080		CAP,TC-U 390P-50 B
	87-A40-916-040	C-VARI-CAP,HVC202A		C332	87-018-126-080		CAP,TC-U 390P-50 B
	87-017-090-080	ZENER,HZS5B3		C333	87-012-275-080		C-CAP,U 1200P-50 B
	87-A40-530-080	DIODE,RB721Q-40		C334	87-012-278-080		C-CAP,U 2200P-50 B
	87-017-148-080	ZENER,HZS6ALL		C336	87-018-134-080		CAPACITOR,TC-U 0.01-16
	87-A40-270-080	C-DIODE,MC2838		C337	87-012-279-080		C-CAP,U 2700P-50 B
	87-020-339-080	CHIP DIODE,1SS226		C338	87-012-279-080		C-CAP,U 2700P-50 B
	87-001-936-080	ZENER,HZS7A3L		C339	87-012-279-080		C-CAP,U 2700P-50 B
	87-001-731-080	ZENER,HZS6C2L		C340	87-A12-691-040		CAP,E 22-16 M 5L R85S5
	87-017-161-080	ZENER,HZS7C2L		C341	87-010-787-080		CAP, U 0.022-25
	87-020-465-080	DIODE,1SS133 (110MA)		C342	87-012-266-080		C-CAP,U 220P-50 B<EXCEPT FD92USTF>
	87-A40-465-090	DIODE,FR202		C343	87-012-284-080		CAP, U 6800P-50<FD94EZSF>
MAIN C.B				C345	87-012-274-080		CHIP CAP,U 1000P-50B
C211	87-010-546-080	CAP, ELECT 0.33-50V		C346	87-012-274-080		CHIP CAP,U 1000P-50B
C212	87-010-546-080	CAP, ELECT 0.33-50V		C347	87-010-374-080		CAP, ELECT 47-10V
C230	87-010-401-080	CAP, ELECT 1-50V		C348	87-012-274-080		CHIP CAP,U 1000P-50B
C233	87-010-546-080	CAP, ELECT 0.33-50V		C350	87-012-275-080		C-CAP,U 1200P-50 B
C234	87-010-546-080	CAP, ELECT 0.33-50V		C351	87-012-278-080		C-CAP,U 2200P-50 B
C235	87-A11-148-080	CAP,TC U 0.1-50 Z F		C352	87-012-284-080		CAP, U 6800P-50<FD94EZSF>
				C354	87-010-555-040		CAP,E 100-10 GAS
				C355	87-012-285-080		C-CAP,U 8200P-50 B
				C356	87-012-285-080		C-CAP,U 8200P-50 B
				C357	87-010-784-080		C-CAP,U 0.012-25 B
				C358	87-010-784-080		C-CAP,U 0.012-25 B
				C363	87-010-405-080		CAP, ELECT 10-50V

ELECTRICAL MAIN PARTS LIST-4/4

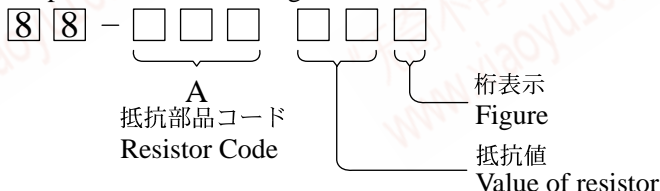
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C44	87-010-311-080		CAP 12P<EXCEPT FD92USTF>	X1	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
C45	87-010-312-080		C-CAP,S 15P-50 CH				
C46	87-010-197-080		CAP, CHIP 0.01 DM				
C47	87-010-197-080		CAP, CHIP 0.01 DM	SPL C.B			
C48	87-010-197-080		CAP, CHIP 0.01 DM				
C49	87-012-140-080		CAP 470P	C293	87-010-133-080		CAP, ELECT 2.2-50V
C50	87-010-197-080		CAP, CHIP 0.01 DM	CN291	87-A60-619-010		CONN,2P V 2MM JMT
C51	87-010-316-080		C-CAP,S 33P-50 CH<FD94EZSF>	CNA203	8B-CH4-655-010		CONN ASSY,4P V SP
C52	87-010-197-080		CAP, CHIP 0.01 DM<FD94EZSF>				
C53	87-010-197-080		CAP, CHIP 0.01 DM<FD94EZSF>	SPR C.B			
C54	87-010-177-080		C-CAP,S 820P-50 SL<FD94EZSF>	C294	87-010-133-080		CAP, ELECT 2.2-50V
C55	87-010-197-080		CAP, CHIP 0.01 DM<FD94EZSF>	CN292	87-A60-619-010		CONN,2P V 2MM JMT
C56	87-010-312-080		C-CAP,S 15P-50 CH<FD94EZSF>				
C71	87-010-197-080		CAP, CHIP 0.01 DM				
C72	87-A12-062-080		CAP,E 100-10 SMG	DECK C.B			
C73	87-010-197-080		CAP, CHIP 0.01 DM	CN1	87-009-352-010		CONN,9P PH H
C75	87-010-197-080		CAP, CHIP 0.01 DM	CRD1	82-ZM1-625-010		RBN-CORD,4P-55
C91	87-012-140-080		CAP 470P<FD92USTF>	M1	87-045-347-010		MOT,SHU2L 70
C92	87-010-197-080		CAP, CHIP 0.01 DM	SFR1	87-024-581-010		SFR,3.3K DIA6V K0A
C93	87-010-197-080		CAP, CHIP 0.01 DM	SOL1	82-ZM3-628-010		SOL ASSY,23 SO
CF2	87-008-261-010		FILTER, SFE10.7MA5-A	SW2	87-036-110-010		PUSH SWITCH
CF3	87-008-261-010		FILTER, SFE10.7MA5-A	SW3	87-036-110-010		PUSH SWITCH
CN2	87-A60-623-010		CONN,6P V 2MM JMT	SW5	87-036-110-010		PUSH SWITCH
CN3	87-A60-621-010		CONN,4P V 2MM JMT	SW6	87-A90-248-010		SW,MICRO ESE11SH2CXQ
L2	87-A50-560-010		COIL,FM BPF(ACD)				
L4	87-A50-420-010		COIL,MW OSC(SYN)	MOTOR C.B			
L5	87-A50-566-010		COIL,FM RF EX(ACH)	CN1	87-A60-670-010		CONN,6P H 2MM JMT
L6	87-A50-567-010		COIL,FM OSC(ACH)	M1	87-A91-973-010		MOT,MDN4RA3FTAS1
L7	87-A91-308-010		FLTR,PCFAZH- 450T (TOK)	M2	87-045-363-010		MOT,MDN4RA3ETA1
L8	87-005-849-080		COIL,10UH(CECS)	SW1	87-A90-042-010		SW,LEAF MSW-17310MVP0
L51	87-A50-421-010		COIL,LW OSC(SYN)<FD94EZSF>				
L003	8A-CH4-670-010		BAR-ANT,MW 2B-ACH(COI)<EXCEPT FD94EZSF>				
L003	8A-CH4-671-010		BAR-ANT,MW/LW 3B-ACH(COI)<FD94EZSF>				
TC1	87-011-254-080		TRIMER,20P LAR				
TC51	87-A91-659-010		TRIMMER,50P 4.0X4.5 ECRL<FD94EZSF>				

- Regarding connectors, they are not stocked as they are not the initial order items. The connectors are available after they are supplied from connector manufacturers upon the order is received.

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



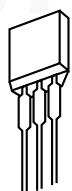
チップ抵抗 Chip resistor

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	1005	± 5%	CJ		1.0	0.5	0.35	104
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-1/1

QQ 376315150

892498299



ECB

2SA933



ECB

2SA952

2SA1296

2SC1740

2SC2001

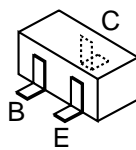
CC5551

KTC3198

2SA1015

2SC5343

2SA19790



2SA1162

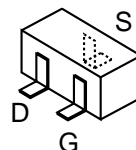
2SC2714

DTA114YK

DTC114YK

DTC124XK

DTC144EK



2SK302GR



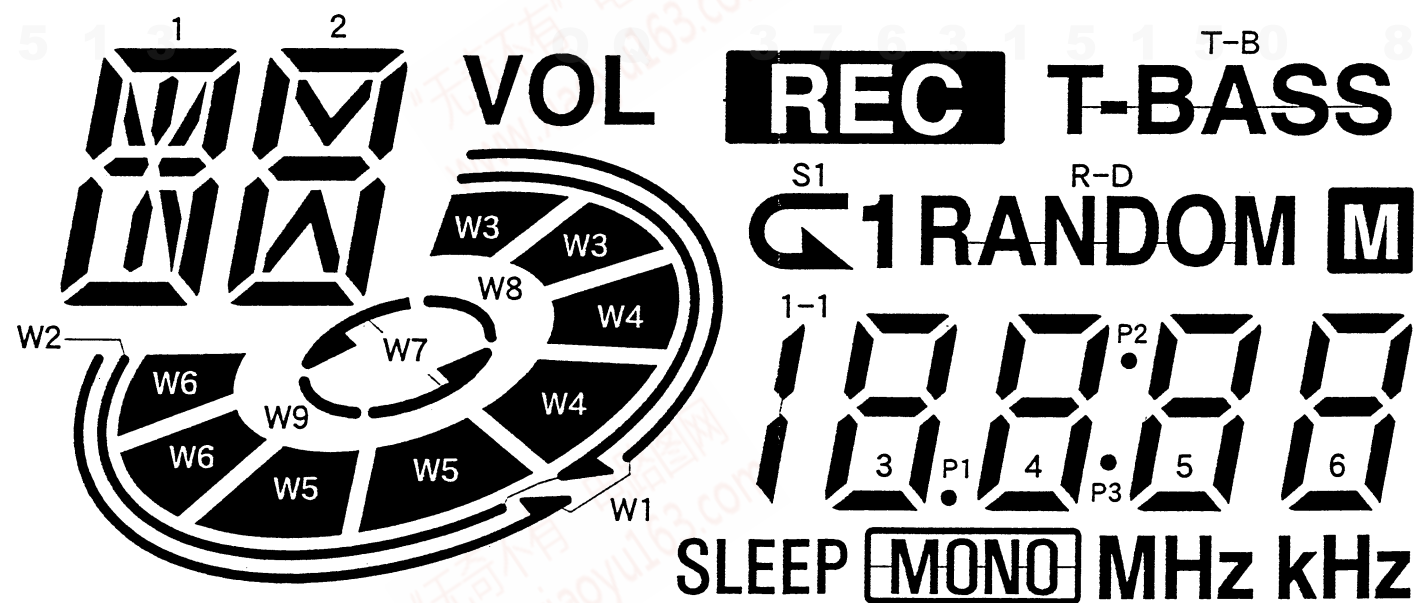
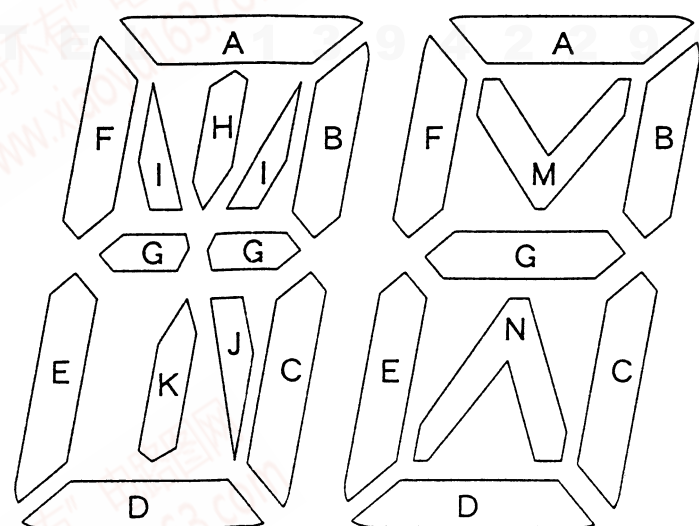
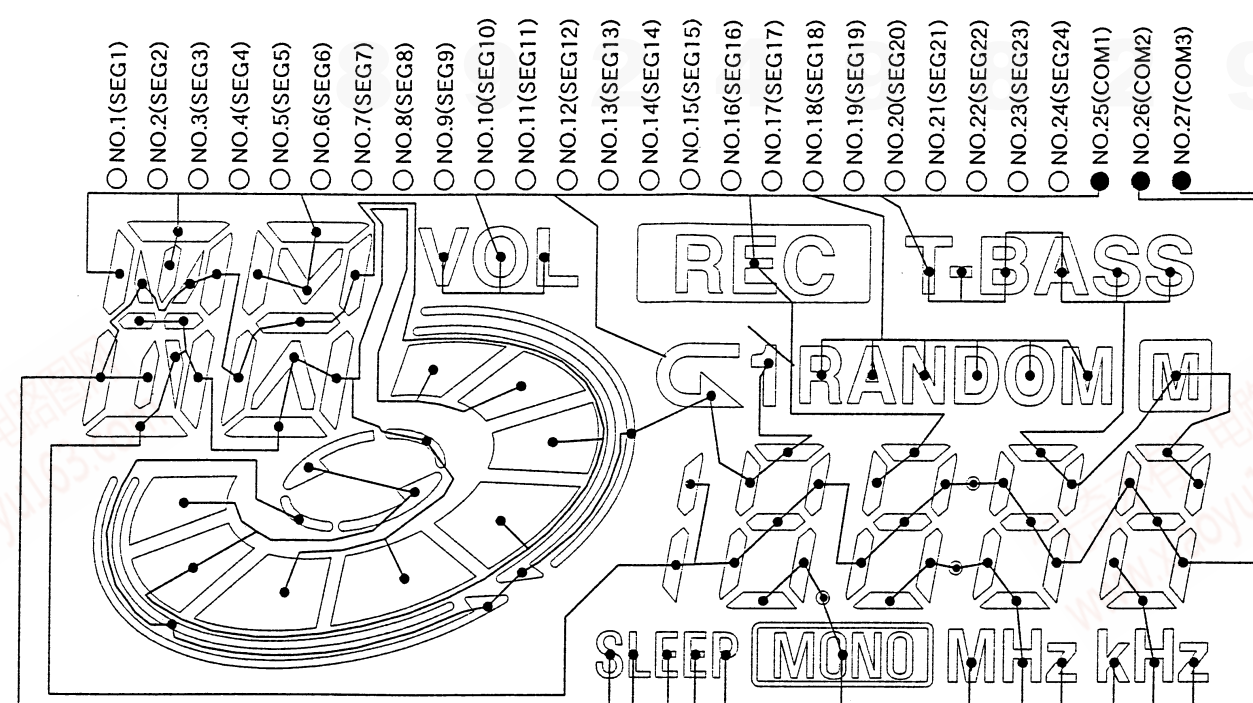
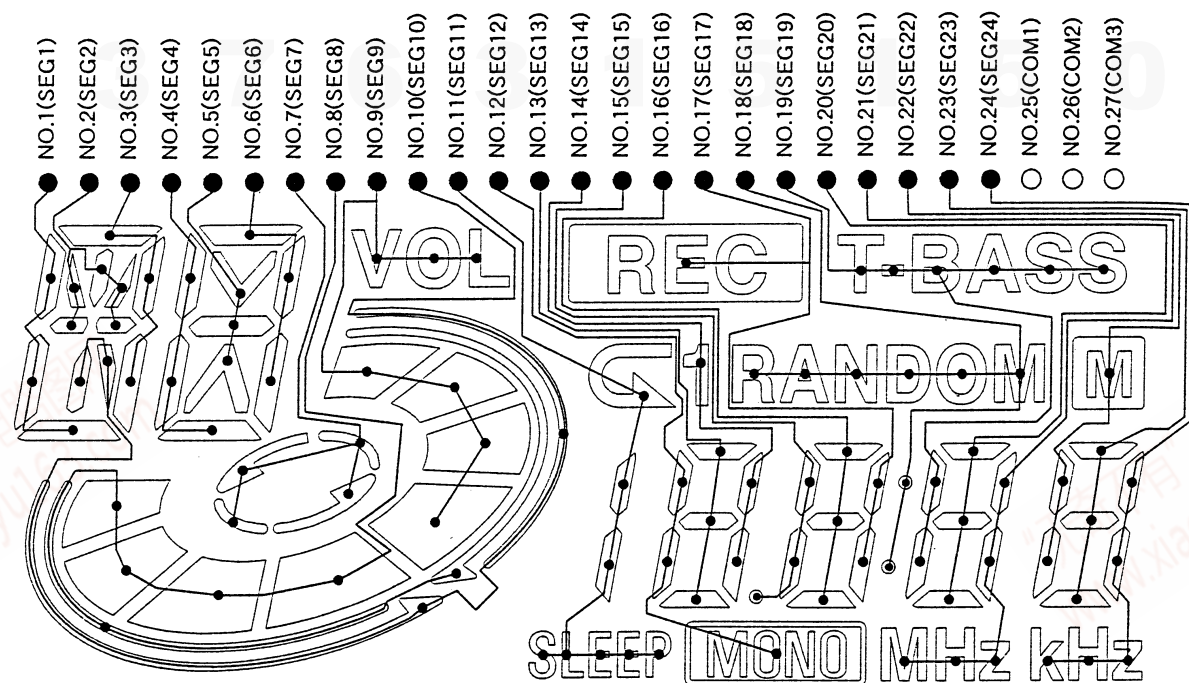
ECB

2SK2541

TEL 13942296513 QQ 376315150 892498299

TEL 13942296513 QQ 376315150 892498299

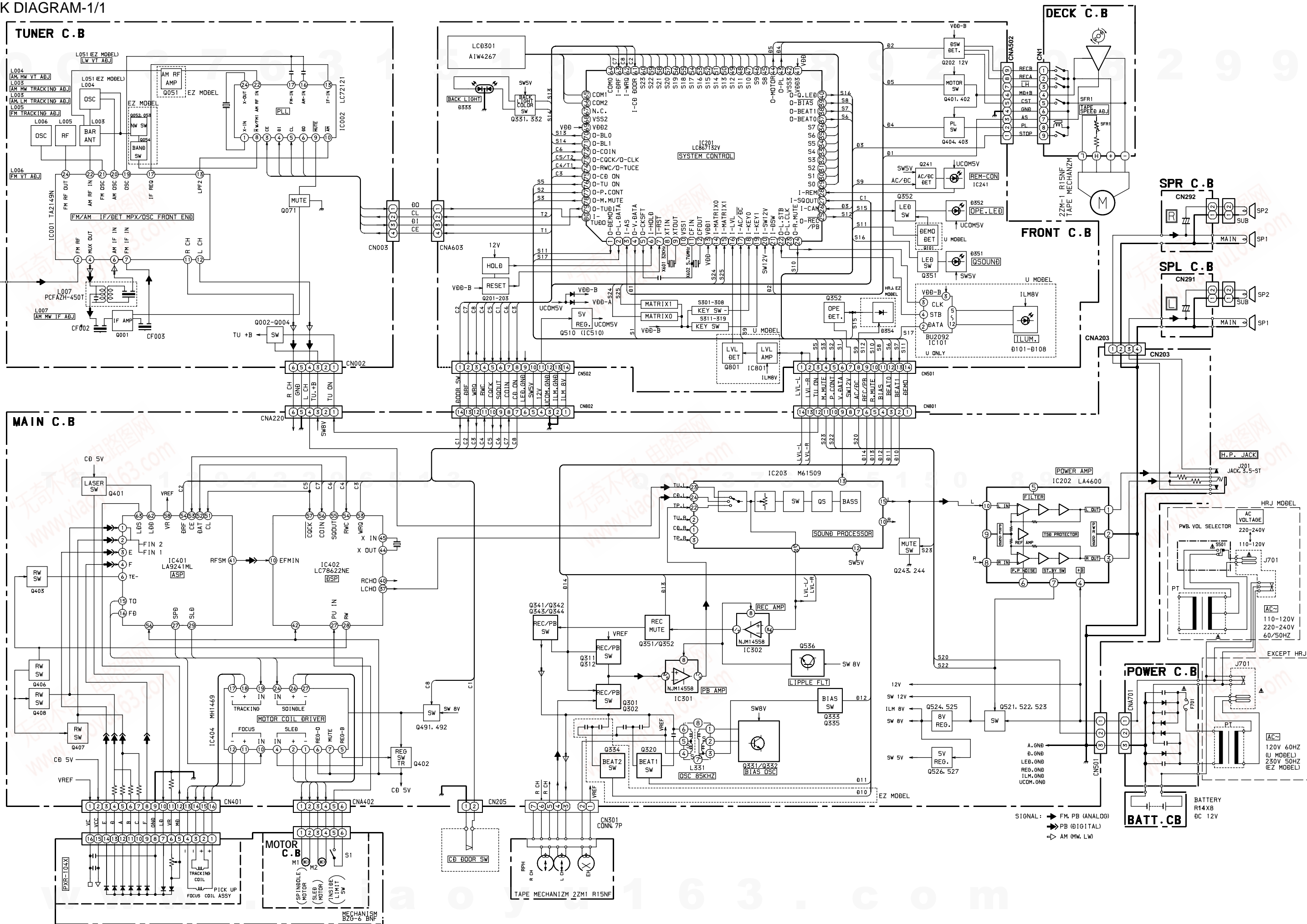
FL (LCD, AIW4267BCH-4) GRID ASSIGNMENT/ANODE CONNECTION-1/1
 GRID ASSIGNMENT



ANODE CONNECTION

NO	COM1	COM2	COM3
1	1F	1D	1E
2	1H	1G	1I
3	1A	1C	1B
4	2F	2D	2E
5	2M	2N	2G
6	2A	2C	2B
7	W9	W8	W7
8	W2	W5	W6
9	VOL	W3	W4
10	W1	1J	1K
11	S1	1-1	SLEEP
12	3F	3E	MONO
13	3A	3G	3D
14	1	3B	3C
15	4F	4E	P1
16	4A	4G	4D
17	REC	4B	4C
18	R-D	P2	P3
19	T-B	5F	5E
20	5A	5G	5D
21	5B	5C	MHz
22	M	6F	6E
23	6A	6G	6D
24	6B	6C	KHz
25	COM1	---	---
26	---	COM2	---
27	---	---	COM3

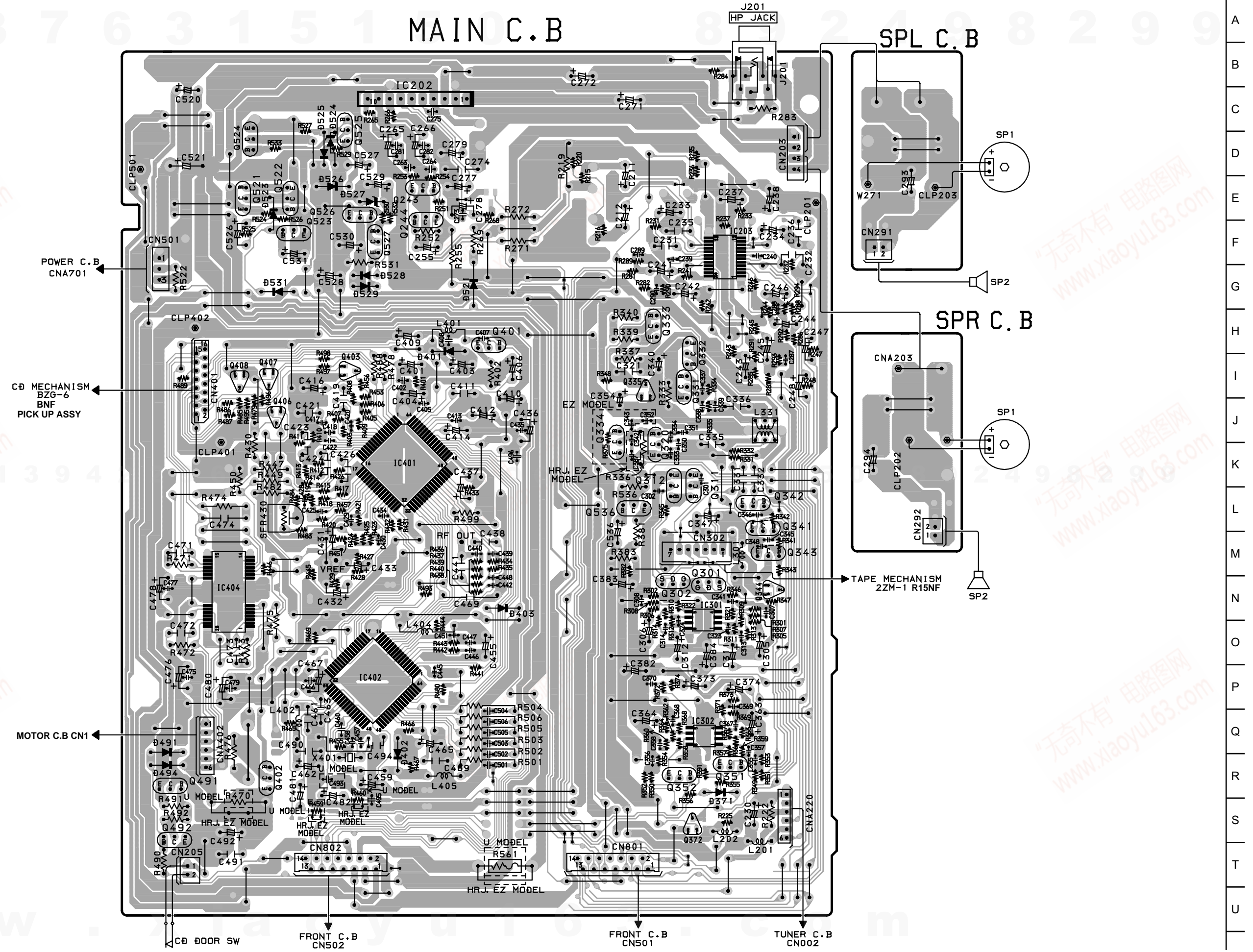
BLOCK DIAGRAM-1/1



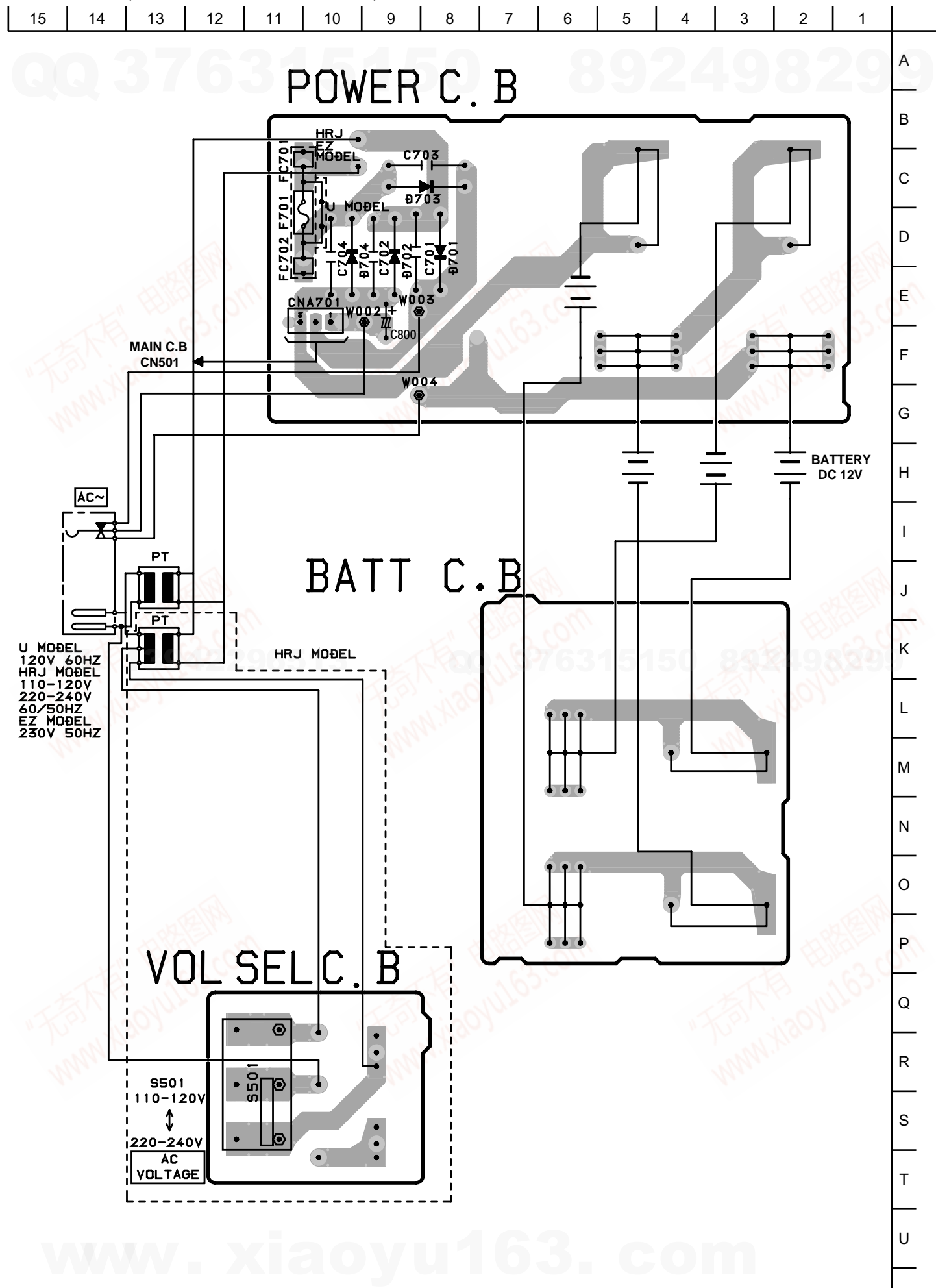
WIRING-1/6 (MAIN, CD)

32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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MAIN C.B



WIRING-2/6 (POWER, BATT, VOL SEL)



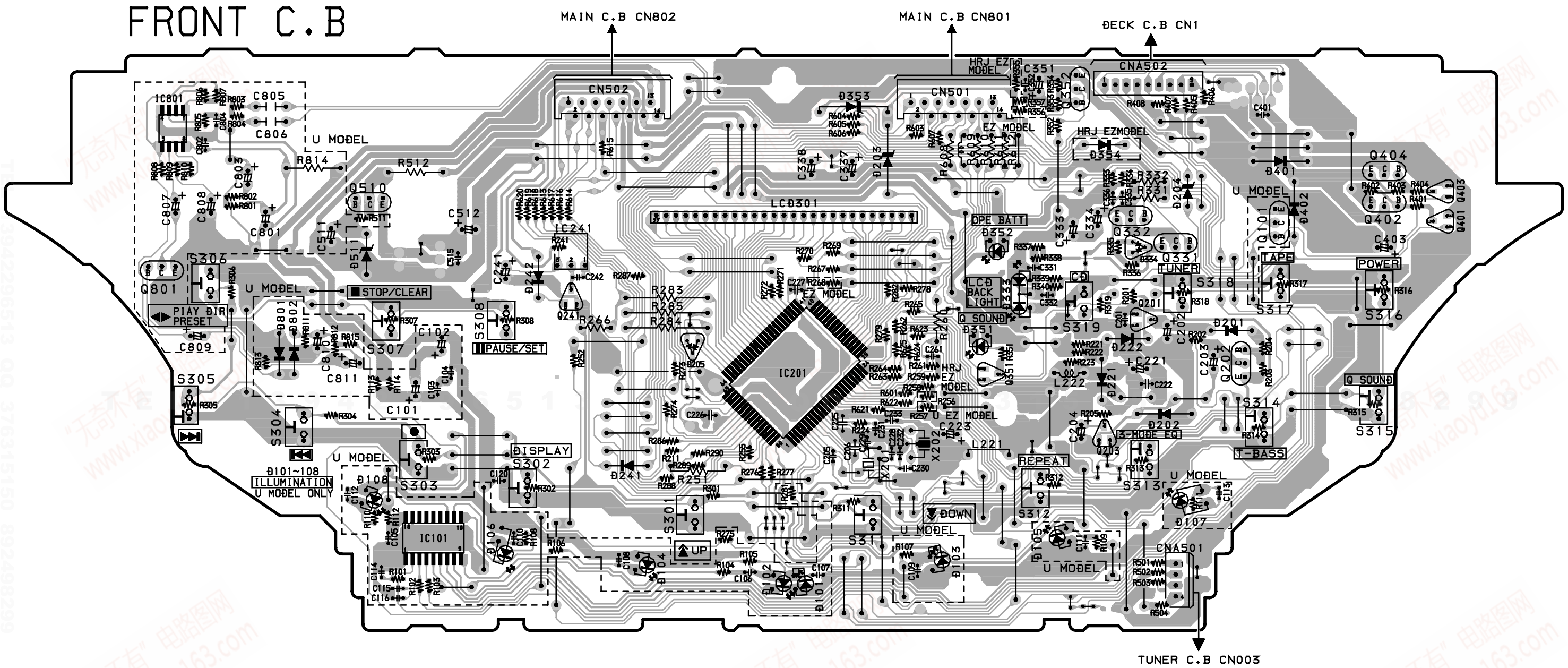
WIRING-3/6 (FRONT)

32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

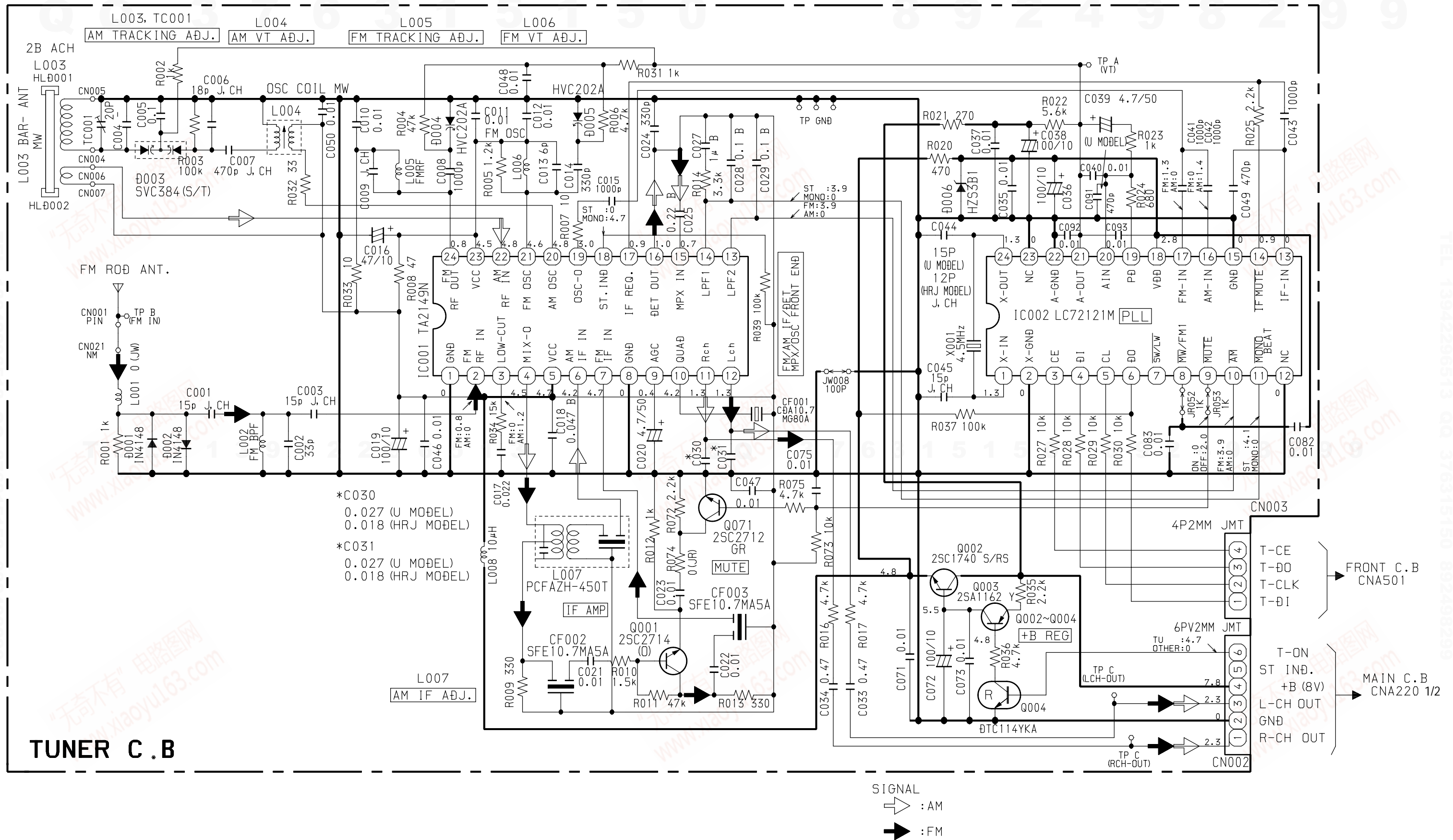
Q Q 3 7 6 3 1 5 1 5 0 8 9 2 4 9 8 2 9 9

A B C D E F G H I J K L M N O P Q R S T U

FRONT C.B



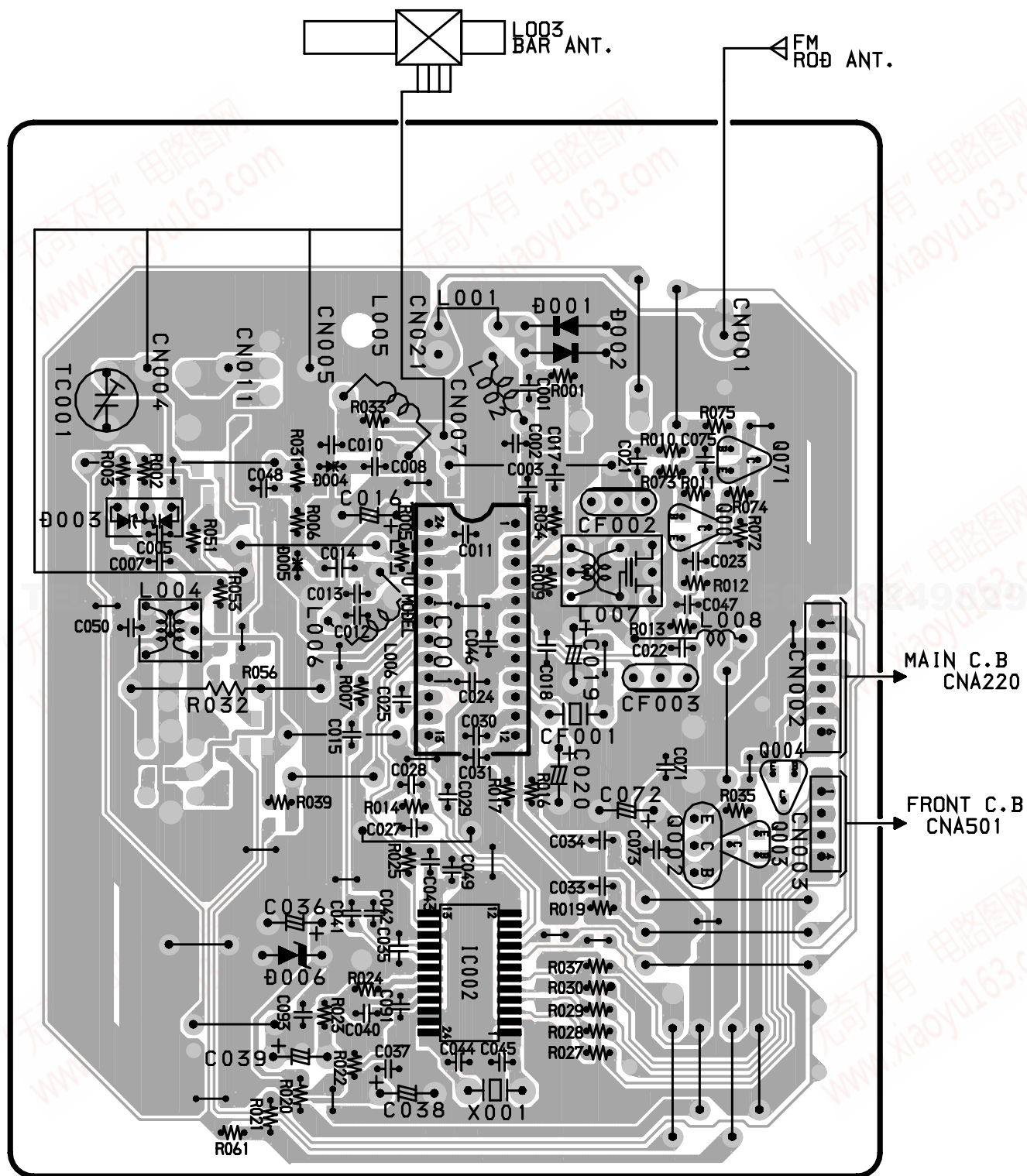
SCHEMATIC DIAGRAM-4/5 (TUNER HRJ, U)



WIRING-4/6 (TUNER HRJ, U)

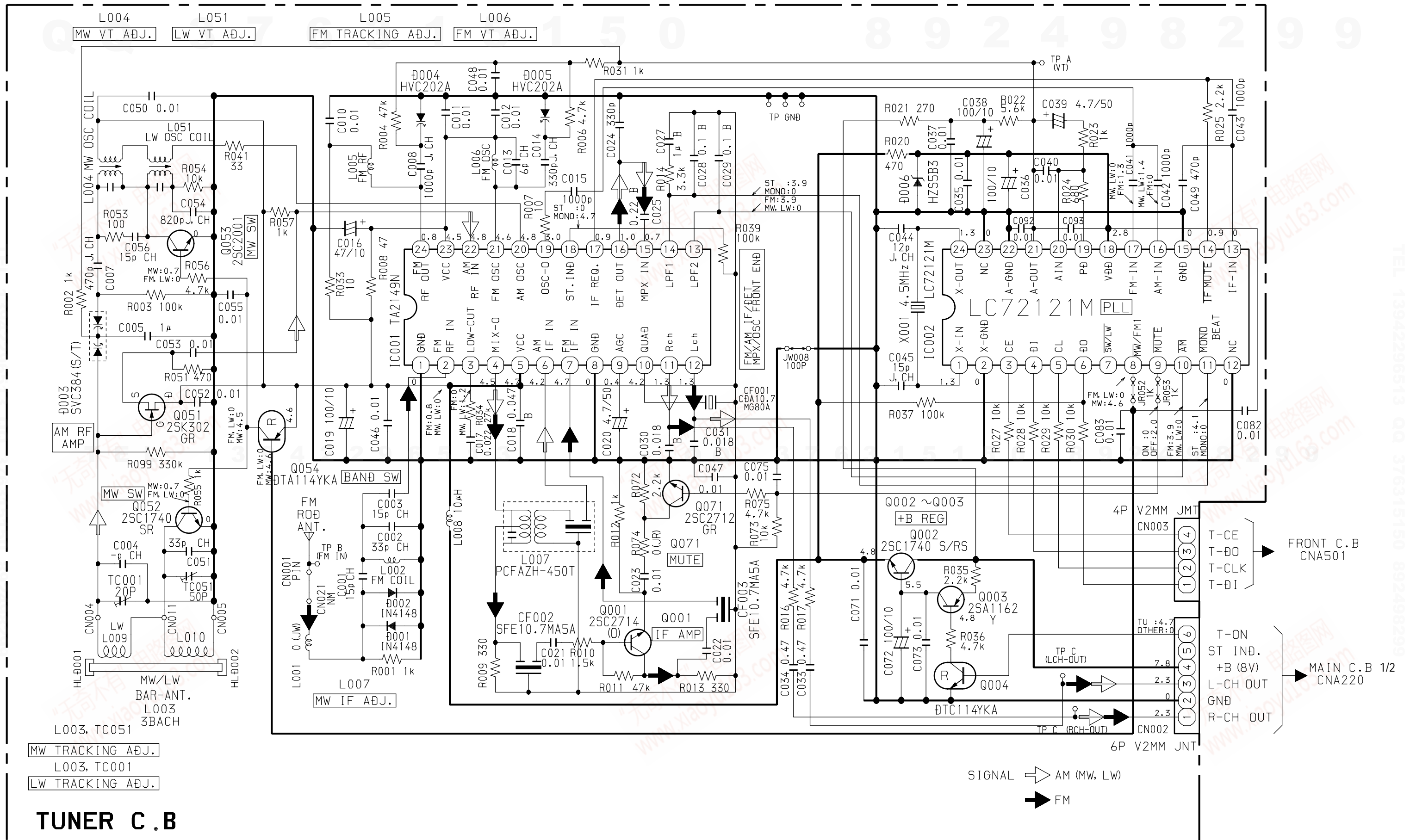
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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TUNER C.B



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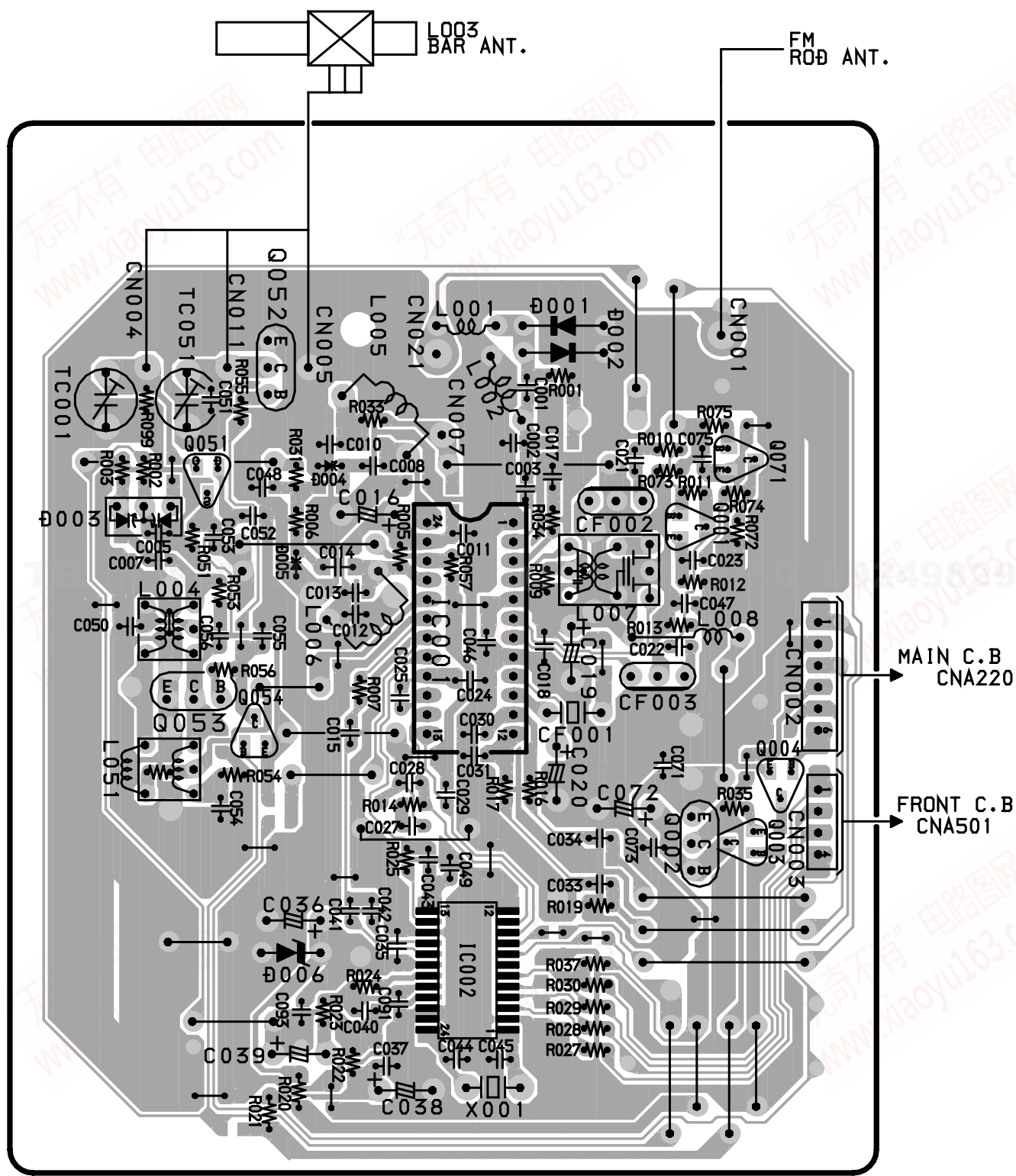
SCHEMATIC DIAGRAM-5/5 (TUNER EZ)



WIRING-5/6 (TUNER EZ)

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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TUNER C.B

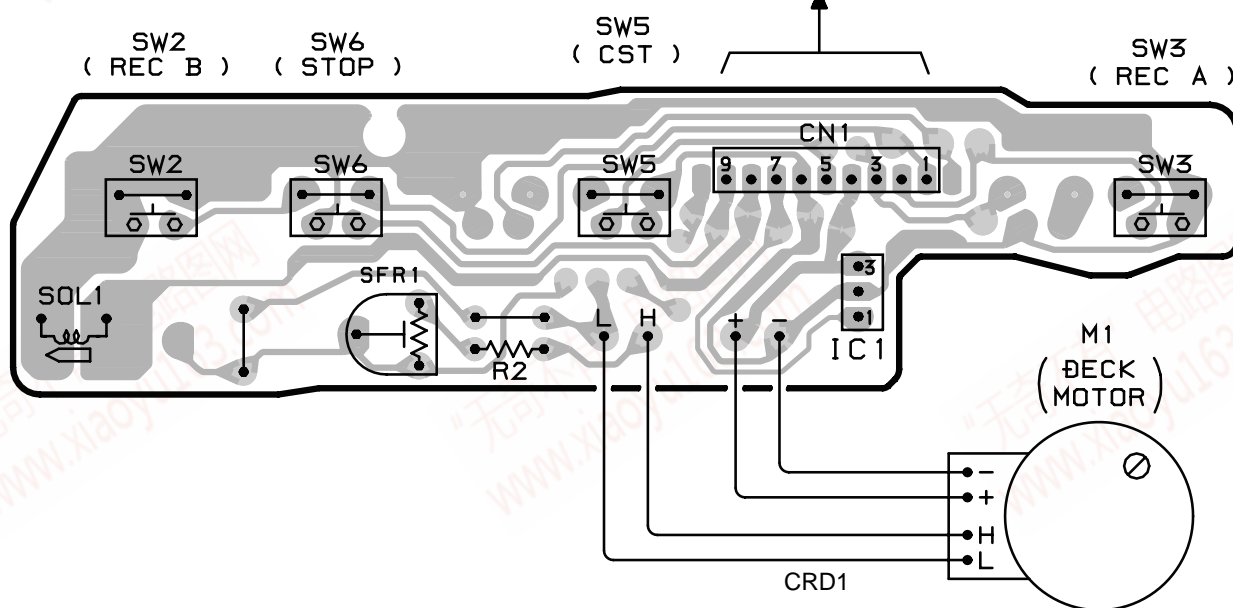


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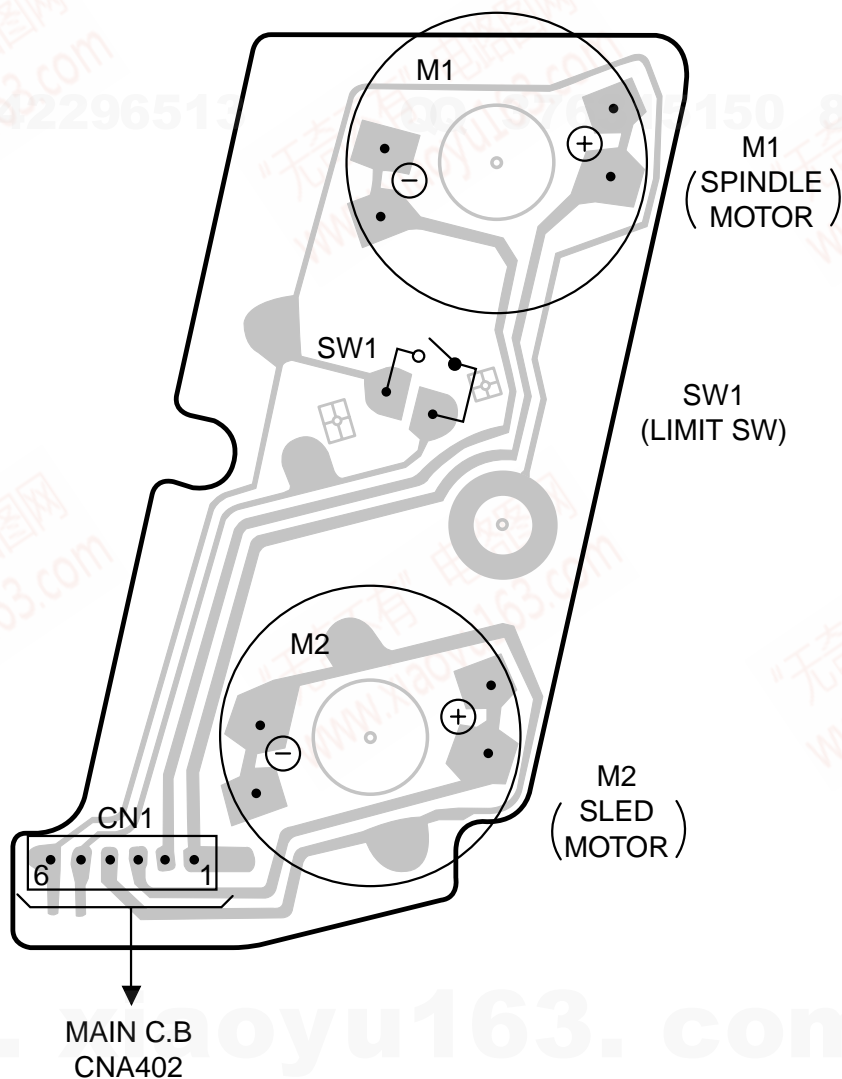
WIRING-6/6 (TAPE, CD)

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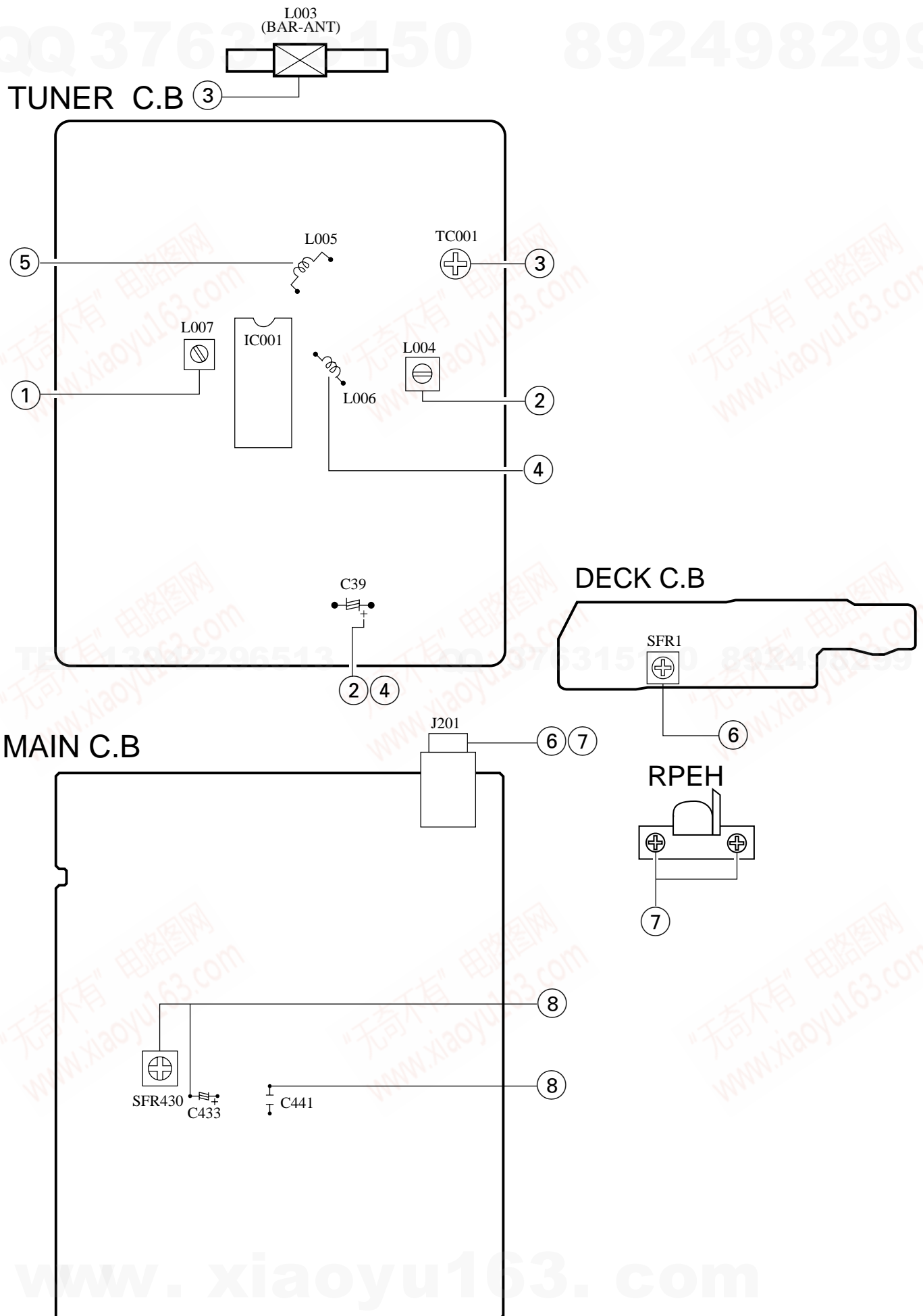
DECK C.B (2ZM1 R15NF)



MOTOR C.B (BZG6 BNF)



ELECTRICAL ADJUSTMENT-1/4 (HRJ, U MODEL)



ELECTRICAL ADJUSTMENT-2/4 (HRJ, U MODEL)

< TUNER SECTION >

1. AM IF Adjustment
L007 1400/1404kHz
2. AM VT Adjustment
Settings: • Test point: C39⊕
• Adjustment location: L004
Method: Set to AM 1602/1710kHz adjust L004 so that the test point becomes 6.0V±50mV (U)
Set to AM 1602/1710 kHz adjust L004 so that the Test point becomes 5.6V±50mV (HRJ)
3. AM Tracking Adjustment
L003 600kHz
TC001 1400kHz
4. FM VT Adjustment
Settings: • Test point: C39⊕
• Adjustment location: L006
Method: Set to FM 108MHz adjust L006 so that the test point becomes 6.0V±50mV.
5. FM Tracking Adjustment
L005 87.5MHz

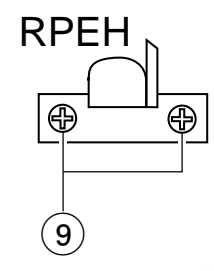
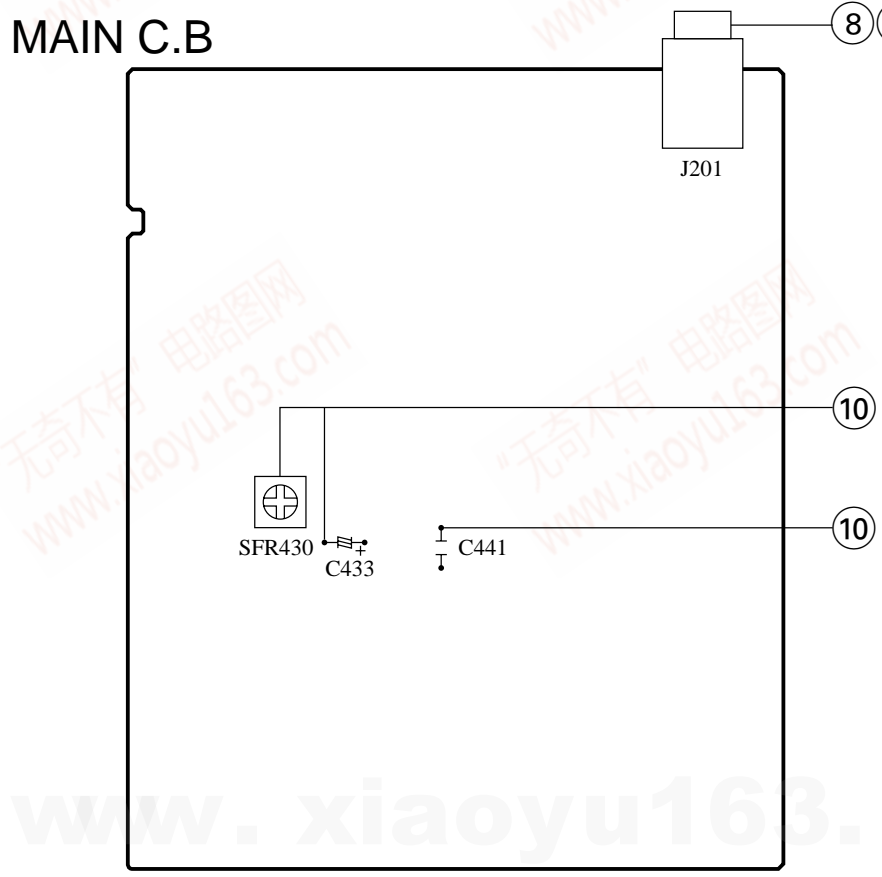
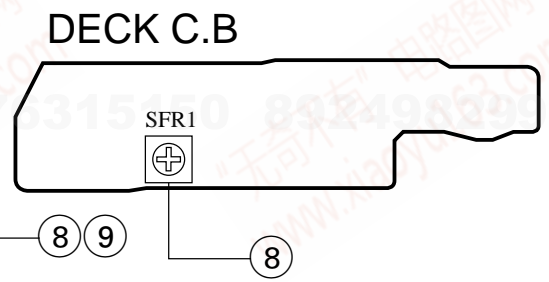
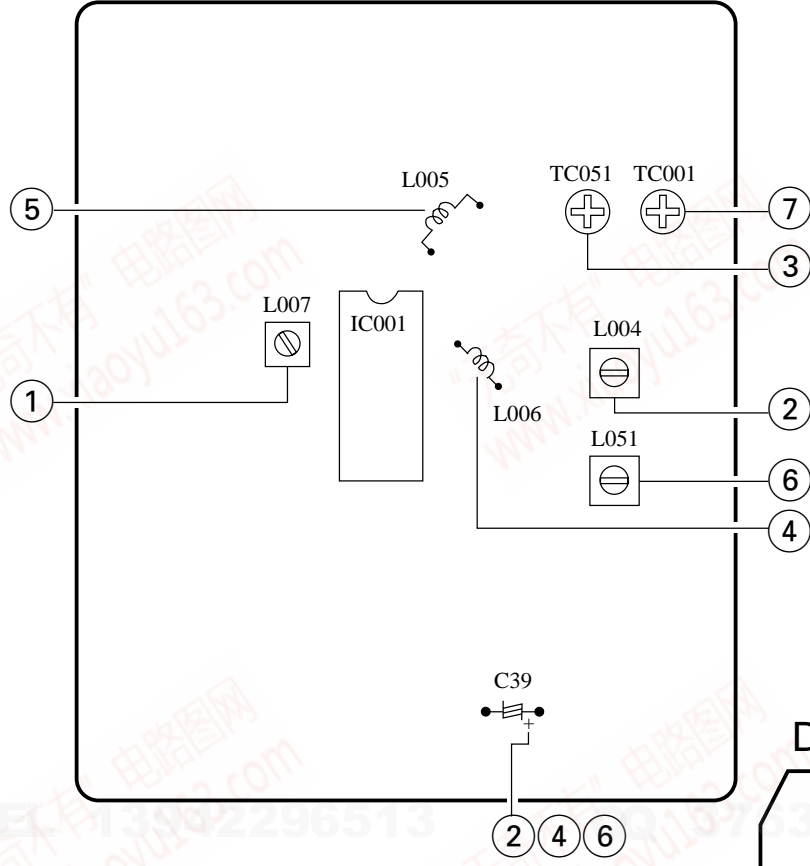
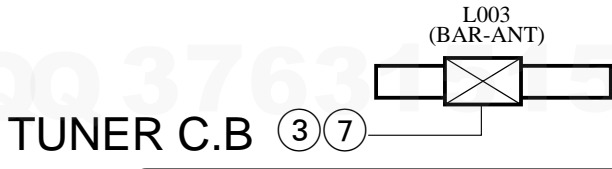
< DECK SECTION >

6. Tape speed Adjustment
Settings: • Test tape: TTA-100
• Test point: PHONES JACK (J201)
• Adjustment location: SFR of deck motor
Method: Play back the test tape and adjust so that the output frequency is 3000Hz ±30Hz.
7. Azimuth Adjustment
Settings: • Test tape: TTA-320
• Test point: PHONES JACK (J201)
• Adjustment location: Azimuth adjustment screw
Method: Play back the test tape and adjust so that the output is maximum.

< CD SECTION >

8. Focus BIAS Adjustment
Settings: • Test CD: D-782
• Test point: C441 (RF OUT)
C433⊖ (VREF)
• Adjustment location: SFR430
Method: Play back the test ⊕ track 2 and adjust so that the output level is DC 0mV±10mV.

ELECTRICAL ADJUSTMENT-3/4 (EZ MODEL)



ELECTRICAL ADJUSTMENT-4/4 (EZ MODEL)

< TUNER SECTION >

1. MW IF Adjustment
L007 1400/1404kHz
2. MW VT Adjustment
Settings: • Test point: C39⊕
• Adjustment location: L004
Method: Set to MW 1602/1710kHz adjust L004 so that the test point becomes 5.6V±50mV.
3. MW Tracking Adjustment
L003 603kHz
TC051 1404kHz
4. FM VT Adjustment
Settings: • Test point: C39⊕
• Adjustment location: L006
Method: Set to FM 108MHz adjust L006 so that the test point becomes 6.0V±50mV.
5. FM Tracking Adjustment
L005 87.5MHz
6. LW VT Adjustment
Settings: • Test point: C39⊕
• Adjustment location: L051
Method: Set to LW 290kHz adjust L051 so that the test point becomes 4.60V±50mV.
7. LW Tracking Adjustment
L003 153kHz
TC001 288kHz

< DECK SECTION >

8. Tape speed Adjustment
Settings: • Test tape: TTA-100
• Test point: PHONES JACK (J201)
• Adjustment location: SFR1 of deck C.B
Method: Play back the test tape and adjust so that the output frequency is 3000Hz ±30Hz.
9. Azimuth Adjustment
Settings: • Test tape: TTA-320
• Test point: PHONES JACK (J201)
• Adjustment location: Azimuth adjustment screw
Method: Play back the test tape and adjust so that the output is maximum.

< CD SECTION >

10. Focus BIAS Adjustment
Settings: • Test CD: TCD-782
• Test point: C441 (RF OUT)
C433⊖ (VREF)
• Adjustment location: SFR430
Method: Play back the test CD track 2 and adjust so that the output level is DC 0mV±10mV.

IC DESCRIPTION-1/3 (LA9241ML)-1/2

Pin No.	Pin Name	I/O	Description
1	FIN2	I	Pin to which external pickup photo diode is connected. RF signal is created by adding with the FIN1 pin signal. FE signal is created by subtracting from the FIN1 pin signal.
2	FIN1	I	Pin to which external pickup photo diode is connected.
3	E	I	Pin to which external pickup photo diode is connected. TE signal is created by subtracting from the F pin signal.
4	F	I	Pin to which external pickup photo diode is connected.
5	TB	I	DC component of the TE signal is input.
6	TE-	I	Pin to which external resistor setting the TE signal gain is connected between the TE pin.
7	TE	O	TE signal output pin.
8	TESI	I	TES "Track Error Sense" comparator input pin. TE signal is passed through a band-pass filter then input.
9	SCI	I	Shock detection signal input pin.
10	TH	I	Tracking gain time constant setting pin.
11	TA	O	TA amplifier output pin.
12	TD-	I	Pin to which external tracking phase compensation constants are connected between the TD and VR pins.
13	TD	I	Tracking phase compensation setting pin.
14	JP	I	Tracking jump signal (kick pulse) amplitude setting pin.
15	TO	O	Tracking control signal output pin.
16	FD	O	Focusing control signal output pin.
17	FD-	I	Pin to which external focusing phase compensation constants are connected between the FD and FA pins.
18	FA	I	Pin to which external focusing phase compensation constants are connected between the FD- and FA- pins.
19	FA-	I	Pin to which external focusing phase compensation constants are connected between the FA and FE pins.
20	FE	O	FE signal output pin.
21	FE-	I	Pin to which external FE signal gain setting resistor is connected between the FE pin.
22	AGND	—	Analog signal GND.
23	SP	O	Signal ended output of the CV+and CV- pin input signal.
24	SPI	I	Spindle amp input.
25	SPG	I	Pin to which external spindle gain setting resistor in 12 cm mode is connected.
26	SP-	I	Pin to which external spindle phase compensation constants are connected together with SPD pin.
27	SPD	O	Spindle control signal output pin.
28	SLEQ	I	Pin to which external sled phase compensation constants are connected.
29	SLD	O	Sled control signal output pin.
30, 31	SL-, SL+	I	Sled advance signal input pin from microprocessor.
32, 33	JP-, JP+	I	Tracking jump signal input pin from DSP.
34	TGL	I	Tracking gain control signal input from DSP. Low gain when TGL = H.
35	TOFF	I	Tracking off control signal input pin from DSP. Off when TOFF = H.

IC DESCRIPTION-1/3 (LA9241ML)-2/2

Pin No.	Pin Name	I/O	Description
36	TES	O	Pin from which TES signal is output to DSP.
37	HFL	O	“High Frequency Level” is used to judge whether the main beam position is on top of bit or on top of mirror.
38	SLOF	I	Sled servo off control input pin.
39, 40	CV-, CV+	I	CLV error signal input pin from DSP.
41	RFSM	O	RF output pin.
42	RFS-	I	RF gain setting and EFM signal 3T compensation constant setting pin together with RFSM pin.
43	SLC	O	“Slice Level Control” is the output pin which controls the RF signal data slice level by DSP.
44	SLI	I	Input pin which control the data slice level by the DSP.
45	DGND	—	Digital system GND.
46	FSC	O	Output pin to which external focus search smoothing capacitor is connected.
47	TBC	I	“Tracking Balance Control” EF balance variable range setting pin.
48	NC	—	No connection.
49	DEF	O	Disc defect detector output pin.
50	CLK	I	Reference clock input pin. 4.23 MHz of the DSP is input.
51	CL	I	Microprocessor command clock input pin.
52	DAT	I	Microprocessor command data input pin.
53	CE	I	Microprocessor command chip enable input pin.
54	DRF	O	“Detect RF” RF level detector output.
55	FSS	I	“Focus Search Select” focus search mode (\pm search/+ search) select pin. (Not connected)
56	VCC2	—	Servo system and digital system Vcc pin.
57	REFI	—	Pin to which external bypass capacitor for reference voltage is connected.
58	VR	O	Reference voltage output pin.
59	LF2	I	Disc defect detector time constant setting pin.
60	PHI	I	Pin to which external capacitor for RF signal peak holding is connected.
61	BHI	I	Pin to which external capacitor for RF signal bottom holding is connected.
62	LDD	O	APC circuit output pin.
63	LDS	I	APC circuit input pin.
64	VCC1	—	RF system Vcc pin.

IC DESCRIPTION-2/3 (LC78622NE)-1/2

Pin No.	Pin Name	I/O	Description	
1	DEFI	I	Defect sense signal (DEF) input pin. (Connect to 0V when not used)	
2	TAI	I	For PLL.	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
3	PDO	O		Phase comparator output pin to control external VCO.
4	VVSS	—		GND pin for built-in VCO. Be sure to connect to 0V.
5	ISET	I		Pin to which external resistor adjusting the PDO output current.
6	VVDD	—		Power supply pin for built-in VCO.
7	FR	I		Pin for VCO frequency range adjustment.
8	VSS	—		Digital system GND. Be sure to connect to 0V.
9	EFMO	O	For slice level control.	EFM signal output pin.
10	EFMIN	I		EFM signal input pin.
11	T2	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
12, 13	CLV+, CLK-	O	Disc motor control output. Three level output is possible using command.	
14	V/P	O	Rough servo or phase control automatic selection monitoring output pin. Rough servo at H. Phase servo at L.	
15	HFL	I	Track detect signal input pin. Schmidt input.	
16	TES	I	Tracking error signal input pin. Schmidt input.	
17	TOFF	O	Tracking OFF output pin.	
18	TGL	O	Tracking gain selection output pin. Gain boost at L.	
19, 20	JP+, JP-	O	Track jump control signal output pin. Three level output is possible using command.	
21	PCK	O	EFM data playback clock monitoring pin 4.3218 MHz when phase is locked in. (Not connected)	
22	FSEQ	O	Sync signal detection output pin. H when the sync signal which is detected from EFM signal and thesync signal which is internally generated agree. (Not connected)	
23	VDD	—	Digital system power supply pin.	
24	SL+	O	Moves the sled to outer circumference.	
25	SL-	O	Moves the sled to inner circumference.	
26	COM3	I/O	General purpose input/output pin.	
27	PUIN	I	CD pickup inner switch detection.	
28	RW	O	Read, wright signal.	
29	EMPH	O	De-emphasis monitor output pin. De-emphasis disc is being played back at H. (Not connected)	
30	C2F	O	C2 flag output pin. (Not connected)	
31	DOUT	O	DIGITAL OUT output pin. (EIAJ format) (Not connected)	
32, 33	T3, T4	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
34	N.C.	—	Not connected. Set the pin to open.	
35	MUTEL	O	L-channel 1-bit DAC.	L-channel mute output pin. (Not connected)
36	LVDD	—		L-channel power supply pin.
37	LCHO	O		L-channel output pin.
38	LVSS	—		L-channel GND. Be sure to connect to 0V.
39	RVSS	—	R-channel 1-bit DAC.	R-channel GND. Be sure to connect to 0V.
40	RCHO	O		R-channel output pin.
41	RVDD	—		R-channel power supply pin.
42	MUTER	O		R-channel mute output pin. (Not connected)

IC DESCRIPTION-2/3 (LC78622NE)-2/2

Pin No.	Pin Name	I/O	Description
43	XVDD	—	Crystal oscillator power supply pin.
44	XOUT	O	Pin to which external 16.9344 MHz crystal oscillator is connected.
45	XIN	I	
46	XVSS	—	Crystal oscillator GND pin. Be sure to connect to 0V.
47	SBSY	O	Subcode block sync signal output pin. (Not connected)
48	EFLG	O	C1, C2, single and dual correction monitoring pin. (Not connected)
49	PW	O	Subcode P, Q, R, S, T, U and W output pin. (Not connected)
50	SFSY	O	Subcode frame sync signal output pin. Falls down when subcode enters standby. (Not connected)
51	SBCK	I	Subcode read clock input pin. Schmidt input. (Be sure to connected to 0V when not in use)
52	FSX	O	Pin outputting the 7.35 kHz sync signal which is generated by dividing frequency of crystal oscillator. (Not connected)
53	WRQ	O	Subcode Q output standby output pin.
54	RWC	I	Read/write control input pin. Schmidt input.
55	SQOUT	O	Subcode Q output pin.
56	COIN	I	Command input pin from microprocessor.
57	CQCK	I	Command input read clock or subcode read input clock from SQOUT pin.
58	RES	I	LC78622 reset input pin. Set this pin to L once when the main power is turned on.
59	T11	O	Test signal output pin. Use this pin as open (normally L output) (Not connected)
60	16M	O	16.9344 MHz output pin. (Not connected)
61	4.2M	O	4.2336 MHz output pin.
62	T5	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
63	CS	I	Chip select signal input pin with built-in pull-down resistor. Be sure to connect to 0V while it is not controlling.
64	T1	I	Test signal input pin without built-in pull-down resistor. Be sure to connect to 0V.

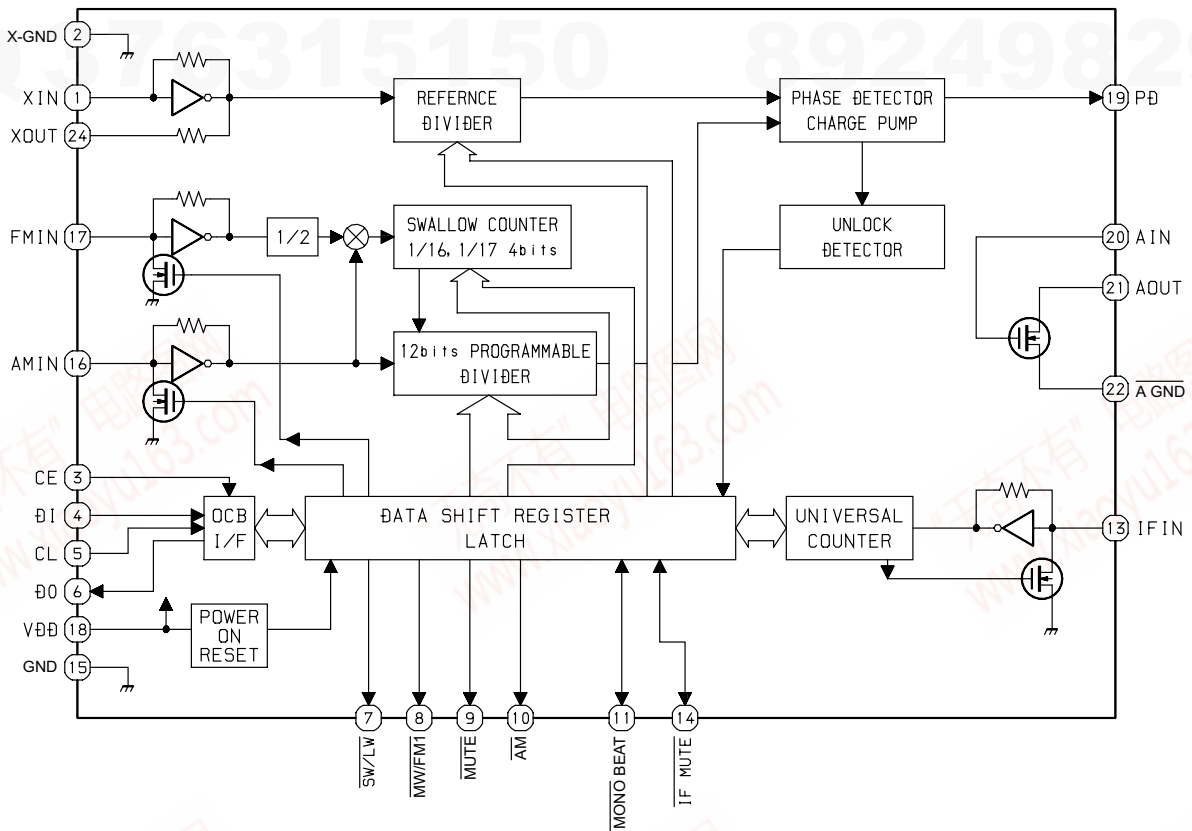
IC DESCRIPTION-3/3 (LC867132V)-1/2

Pin No.	Pin Name	I/O	Description
1	O-DEMO	O	POWER OFF: demonstration mode. OPE LED control output.
2	O-L.DATA	O	Shift register BU2092 data output for illumination LED control.
3	I-AS	I	Tape mechanism status detection. (Auto pulse)
4	O-V.DATA	O	Volume control IC M61509.
5	O-CLKSFT	O	μ COM main clock. Clock shift output.
6	I-HOLD	I	Hold status detection: Hold rush-in at "H".
7	$\overline{\text{I-RST}}$	I	Microprocessor reset input.
8	XTIN	I	Connected to external 32.768 kHz X'tal.
9	XTOUT	O	
10	VSS1	—	Microprocessor power GND.
11	CFIN	I	Connected to external 5.76 MHz CF.
12	CFOUT	O	
13	VDD1	—	Microprocessor power. μ com 5 V.
14	I-MATRIX0	I	AD value matrix input-1 for each destination. Tuner system selection. (AD input)
15	I-MATRIX1	I	AD value matrix input-2 for each destination. Deck system selection. (AD input)
16	I-LVL	I	Audio level detector level input. (AD input)
17	I-AC/DC	I	Set power. AD/DC status input. (AD input)
18, 19	I-KEY0, 1	I	Key input (AD input)-1, 2.
20	I-SW12V	I	Set SW 12 V status detection. (AD input)
21	I-DSW	I	Tape mechanism status detection. (Side-A/-B REC possible/impossible) (AD input)
22	O-L.STB	O	Shift register BU2092 STB output for illumination LED control.
23	O-L.CLK	O	Shift register BU2092 CLK output for illumination LED control.
24	O-R.MUTE	O	Tape REC MUTE control output.
25	O-REC/PB	O	Tape REC/PLAY selection control output.
26	I-CAM	I	Tape mechanism status detection. (stop pulse)
27	I-SQOUT	I	CD sub-code Q data input.
28	I-REM	I	Remote control signal input.
29-36	S0-7	O	LCD segment output LCD.
37, 38	O-BEAT0, 1	O	AM beat selection output-1, 2.
39	O-BIAS	O	Tape REC BIAS control output.
40	O-Q.LED	O	Q SOUND LED control output mode "H": LED ON.
41	VDD3	—	Microprocessor power. μ com 5 V.
42	VSS3	—	Microprocessor power GND.
43	O-PL	O	Tape mechanism control output. (Plunger)
44	O-MOTOR	O	Tape mechanism control output. (Motor)
45-60	S8-23	O	LCD segment output LCD.
61	I-CDDOOR	I	CD DOOR SW open/close detection.
62	I-WRQ	I	CD sub-code Q standby input.
63	I-DRF	I	CD DRF input.
64-66	COM0-2	O	LCD common output LCD.
67	N.C.	—	Not connected.

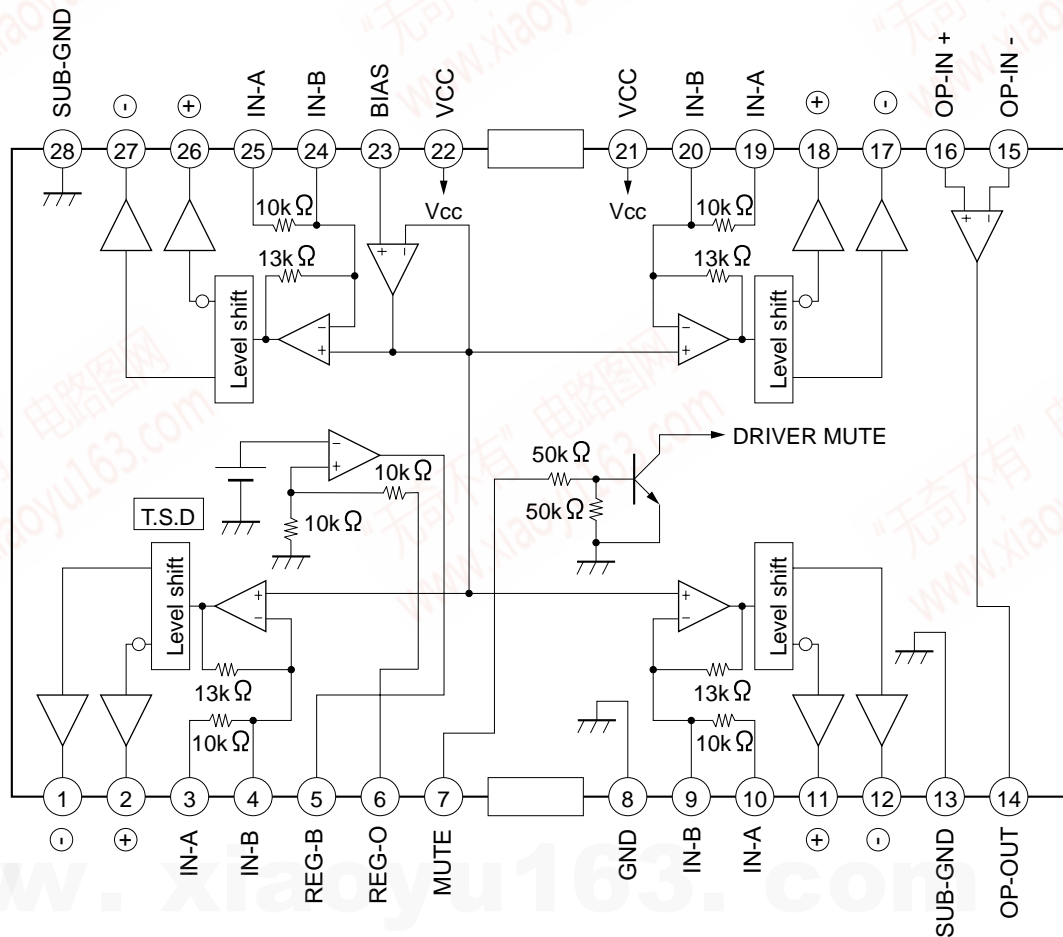
IC DESCRIPTION-3/3 (LC867132V)-2/2

Pin No.	Pin Name	I/O	Description
68	VSS2	—	Microprocessor power GND.
69	VDD2	—	Microprocessor power. μ com 5 V.
70, 71	O-BL0, 1	O	LCD color backlight control output-1, 2.
72	O-COIN	O	CD command output.
73	O-CQCK/O-CLK	O	CD command/sub-code CLK and TUNER IC LC72121 clock output.
74	O-RWC/O-TUCE	O	CD read/write control output and CE output to TUNER IC72121.
75	O-CD ON	O	CD Function Power control output.
76	O-TU ON	O	TUNER Function Power control output.
77	O-P.CONT	—	Set power control output.
78	O-M.MUTE	O	Main mute output.
79	O-TUDI	O	Data output to TUNER IC LC72121.
80	I-TUDO	I	Data input from TUNER IC LC72121.

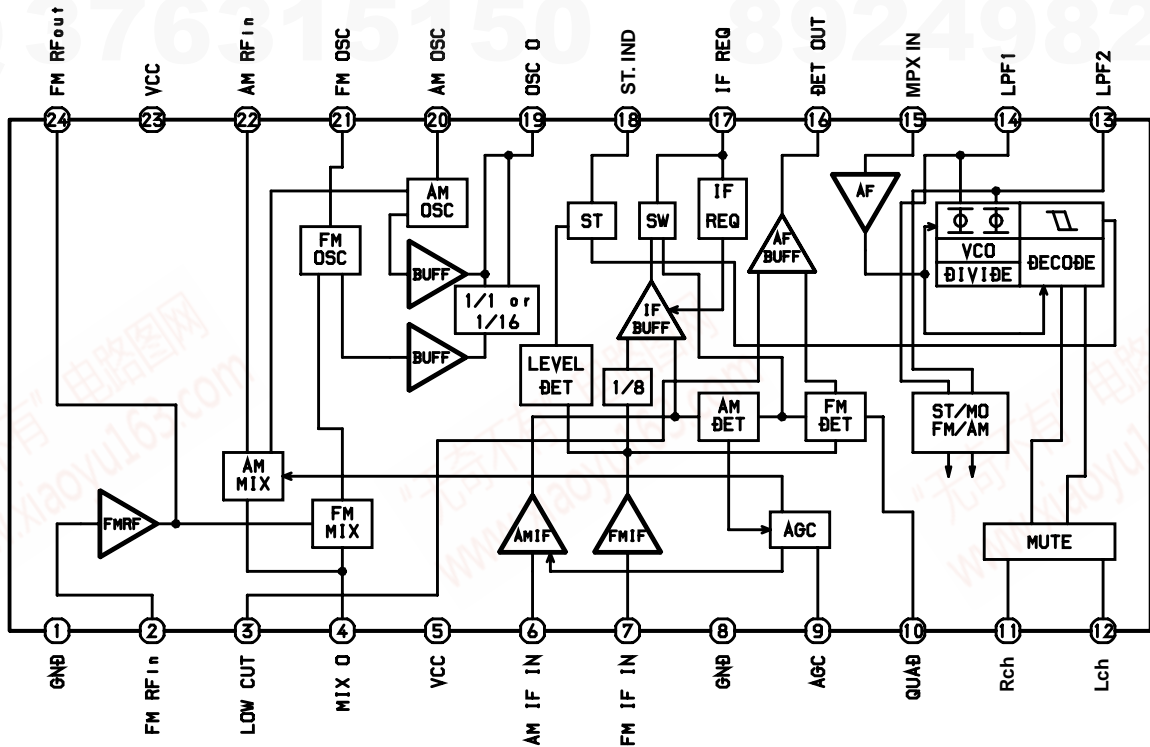
IC BLOCK DIAGRAM-1/3
IC, LC72121



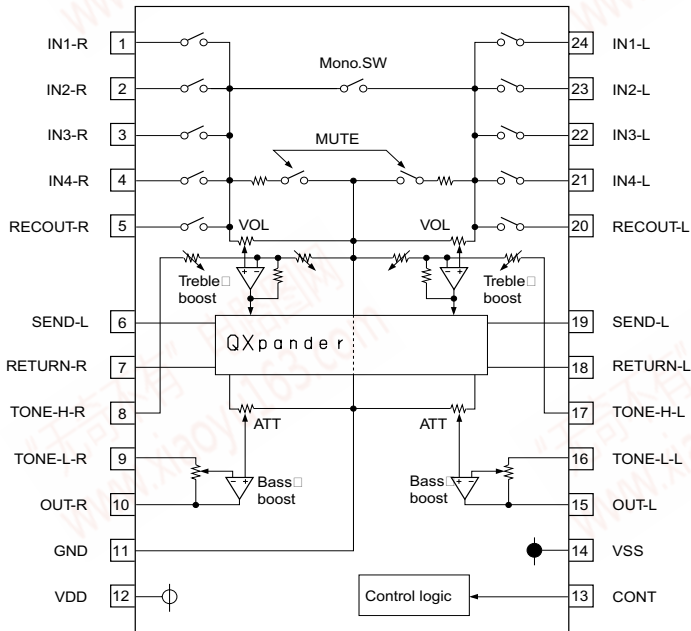
IC, MM1469



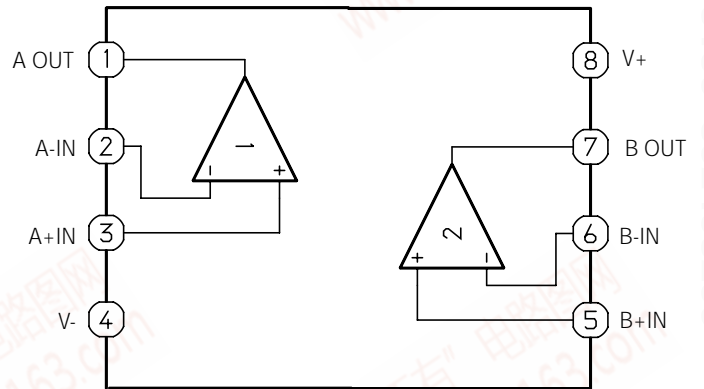
IC BLOCK DIAGRAM-2/3
IC, TA2149



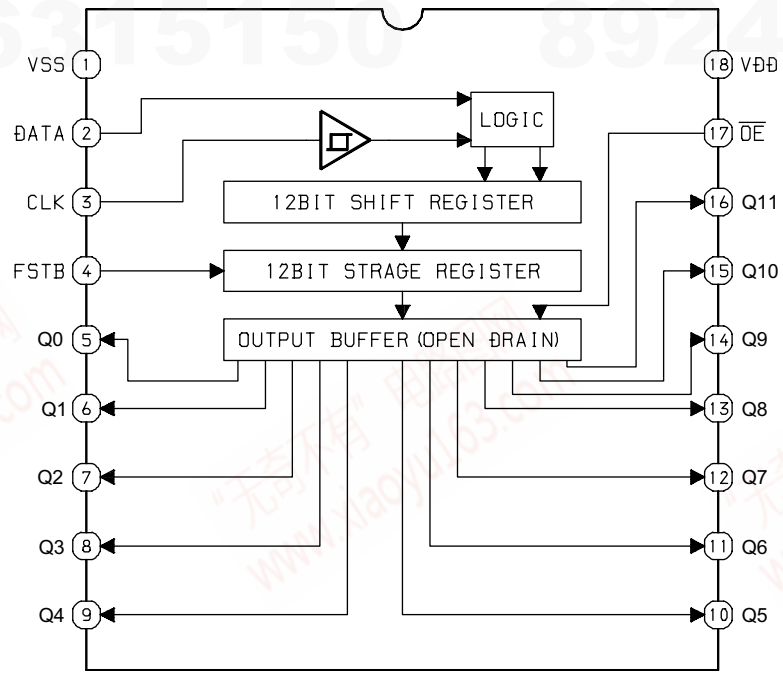
IC, M61509



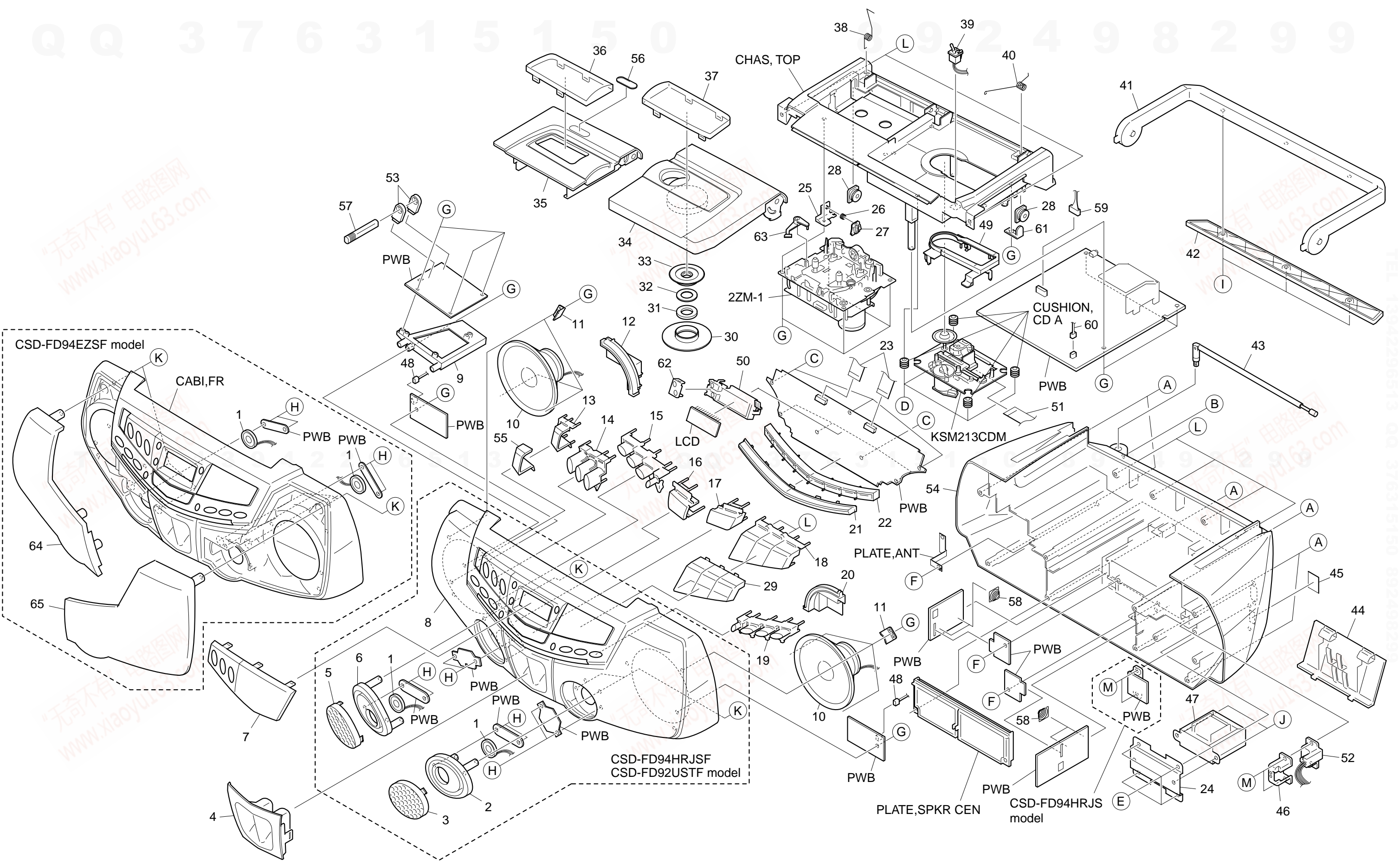
IC, NJM14558



IC BLOCK DIAGRAM-3/3
IC, BU2092



MECHANICAL EXPLODED VIEW-1/1



MECHANICAL PARTS LIST-1/1

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8B-CHA-640-010		SPKR,36MM FY36-1C-W/GASKET	36	8B-CHR-007-010		WINDOW,CASS U 24
2	8B-CH4-036-010		PANEL,TW R<FD94HRJSF>	37	8B-CH4-007-010		WINDOW,CD
2	8B-CHR-016-010		PANEL,TW R U 24<FD92USTF>	38	8B-CH4-210-110		SPR-T,CASS
3	8B-CH4-015-010		CAP, TW R<EXCEPT FD94EZSF>	39	87-036-389-010		SW,PUSH LOCK
4	8B-CH4-022-010		COVER, DUCT<EXCEPT FD92USTF>	40	8B-CH4-211-010		SPR-T,CD
4	8B-CHR-019-010		COVER, DUCT U 24<FD92USTF>	41	8B-CH4-011-010		HANDL,ARM<EXCEPT FD92USTF>
5	8B-CH4-014-010		CAP, TW L<EXCEPT FD94EZSF>	41	8B-CHR-012-010		HANDL,ARM U 24<FD92USTF>
6	8B-CH4-035-010		PANEL,TW L<FD94HRJSF>	42	8B-CH4-012-010		HANDL,GRIP<EXCEPT FD92USTF>
6	8B-CHR-015-010		PANEL,TW L U 24<FD92USTF>	42	8B-CHR-013-010		HANDL,GRIP U 24<FD92USTF>
7	8B-CHE-002-110		WINDOW,FR K 14	43	87-A92-151-010		ANT,ROD 5SEC709
8	8B-CH4-030-110		CABI,FR ASSY<FD94HRJSF>	44	8B-CH4-013-010		LID,BATT<EXCEPT FD92USTF>
8	8B-CHR-009-010		CABI,FR ASSY U 24<FD92USTF>	44	8B-CHR-014-010		LID,BATT U 24<FD92USTF>
9	8B-CH4-203-010		HLDR,TU	45	8B-CH4-042-010		PLATE,AC<EXCEPT FD94HRJSF>
10	8B-CHR-666-010		SPKR,10- 7OHM SILVER RED<FD92USTF>	46	87-A92-235-010		COVER,AC JACK MORNIN
10	8B-CHE-631-010		SPKR,10- 3.2OHM SILVER<EXCEPT FD92USTF>	47	8A-CH4-667-010		PT,E<FD94EZSF>
11	8B-CH4-222-010		HLDR,SPEAKER	47	8A-CH4-668-010		PT,H<FD94HRJSF>
12	8B-CH4-213-010		PLATE,SPKR L	47	8A-CD9-606-010		PT,U 2.5W<FD92USTF>
13	8B-CH4-040-010		BTN,POWER BASE K 4<EXCEPT FD92USTF>	48	8B-CH4-657-010		CONN ASSY,2P V S-SP
13	8B-CHR-029-010		BTN,POWER BASE U 24<FD92USTF>	49	8B-CH4-010-010		PANEL,CD M
14	8B-CH4-017-010		BTN,FUNC<EXCEPT FD92USTF>	50	8B-CH4-201-010		HLDR,LCD
14	8B-CHR-020-010		BTN,FUNC U 24<FD92USTF>	51	8B-CH4-641-010		FF-CABLE,16P 1.0 120MM
15	8B-CH4-018-110		BTN,EQ<EXCEPT FD92USTF>	52	87-A61-455-010		JACK,AC E PSE27<EXCEPT FD92USTF>
15	8B-CHR-021-110		BTN,EQ U 24<FD92USTF>	52	87-A60-177-010		JACK,AC U W/SW<FD92USTF>
16	8B-CHR-027-010		BTN,VOL DOWN K 24<FD92USTF>	53	8B-CH4-683-110		HLDR,BER ANT
16	8B-CH4-034-010		BTN,VOL DOWN<EXCEPT FD92USTF>	54	8B-CH4-002-010		CABI,REAR<EXCEPT FD92USTF>
17	8B-CH4-033-010		BTN,VOL UP<EXCEPT FD92USTF>	54	8B-CHR-002-010		CABI,REAR U 24<FD92USTF>
17	8B-CHR-026-010		BTN,VOL UP K24<FD92USTF>	55	8B-CH4-031-010		CAP, POWER<EXCEPT FD92USTF>
18	8B-CH4-039-010		BTN,CONT BASE K 4<EXCEPT FD92USTF>	55	8B-CHR-034-010		CAP, POWER U 24<FD92USTF>
18	8B-CHR-028-010		BTN,CONT BASE U 24<FD92USTF>	56	8B-CH4-043-010		PLATE,BOX CASS<EXCEPT FD92USTF>
19	8B-CH4-019-110		BTN,REC<EXCEPT FD92USTF>	56	8B-CHR-037-010		PLATE,BOX CASS U 24<FD92USTF>
19	8B-CHR-022-010		BTN,REC U 24<FD92USTF>	57	8A-CH4-670-010		BAR-ANT,MW 2B-ACH(COI)<EXCEPT FD94EZSF>
20	8B-CH4-214-010		PLATE,SPKR R	57	8A-CH4-671-010		BAR-ANT,MW/LW 3B-ACH(COI)<FD94EZSF>
21	8B-CH4-023-010		LENS,FR<FD92USTF>	58	8B-CH4-221-010		SPR-C,BATT(-)
22	8B-CH4-207-010		HLDR,LED<FD92USTF>	59	8B-CH4-654-110		CONN ASSY,7P V DECK SHLD
23	88-914-141-110		FF-CABLE,14P 1.25	60	8B-CH4-661-110		CONN ASSY,2P V DOOR
24	8B-CH4-205-010		HLDR,PT	61	8B-CH4-206-010		HLDR,OIL-DMPR
25	87-NF4-217-110		HLDR,LOCK 2	62	8B-CH4-218-010		CAP,LCD
26	86-NF9-224-010		SPR-C,LOCK	63	82-ZM1-264-010		LVR,EJECT R
27	82-NF5-229-010		PLATE,LOCK	64	8B-CH4-027-010		NET,ASSY L<FD94EZSF>
28	87-063-165-010		OIL-DMPR 150	65	8B-CH4-028-010		NET,ASSY R<FD94EZSF>
29	8B-CHR-024-010		CAP, CONT K 24<EXCEPT FD92USTF>	A	87-B10-242-010		UT2+3-30 W/O CR
29	8B-CHR-025-010		CAP, CONT U 24<FD92USTF>	B	87-254-097-410		U+3-12 CR
30	8B-CH4-223-010		BASE,CHUCK N	C	87-721-096-410		QT2+3-10 GLD
31	87-036-368-010		MAGNET	D	8Z-CK5-222-010		S-SCREW,CD+2.6-6 F9
32	8B-CH4-225-010		PLATE,MAGNET	E	87-661-100-410		VFT1+3-16
33	85-CD7-217-110		HLDR,CHUCK A	F	87-741-095-410		UT2+3-8 GLD
34	8B-CH4-004-110		BOX,CD<EXCEPT FD92USTF>	G	87-741-096-410		UT2+3-10
34	8B-CHR-004-110		BOX,CD U 24<FD92USTF>	H	87-342-074-010		UT2+2.6-8
35	8B-CH4-003-010		BOX,CASS<EXCEPT FD92USTF>	I	87-B10-239-010		QT2+3-8 W/O CR
35	8B-CHR-003-010		BOX,CASS U 24<FD92USTF>	J	87-067-566-010		TAPPING SCREW, VFTT+3-6
				K	87-661-097-410		VFT1+3-12
				L	87-B10-269-010		UT2+3-12 W/O CR
				M	87-352-075-210		VT2+2.6-10

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COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green		

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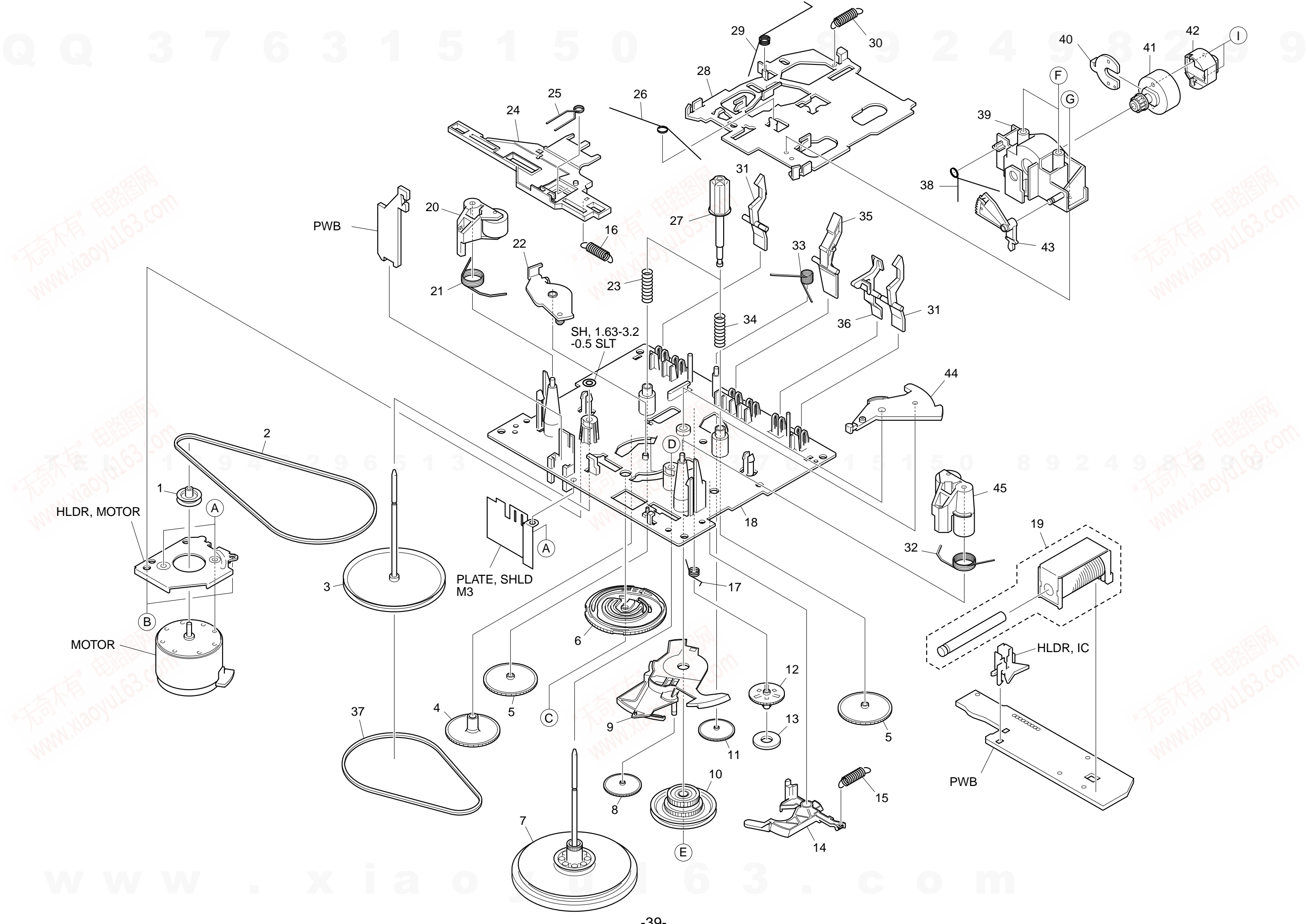
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TAPE MECHANISM EXPLODED VIEW-1/1 (2ZM-1 R15NF)

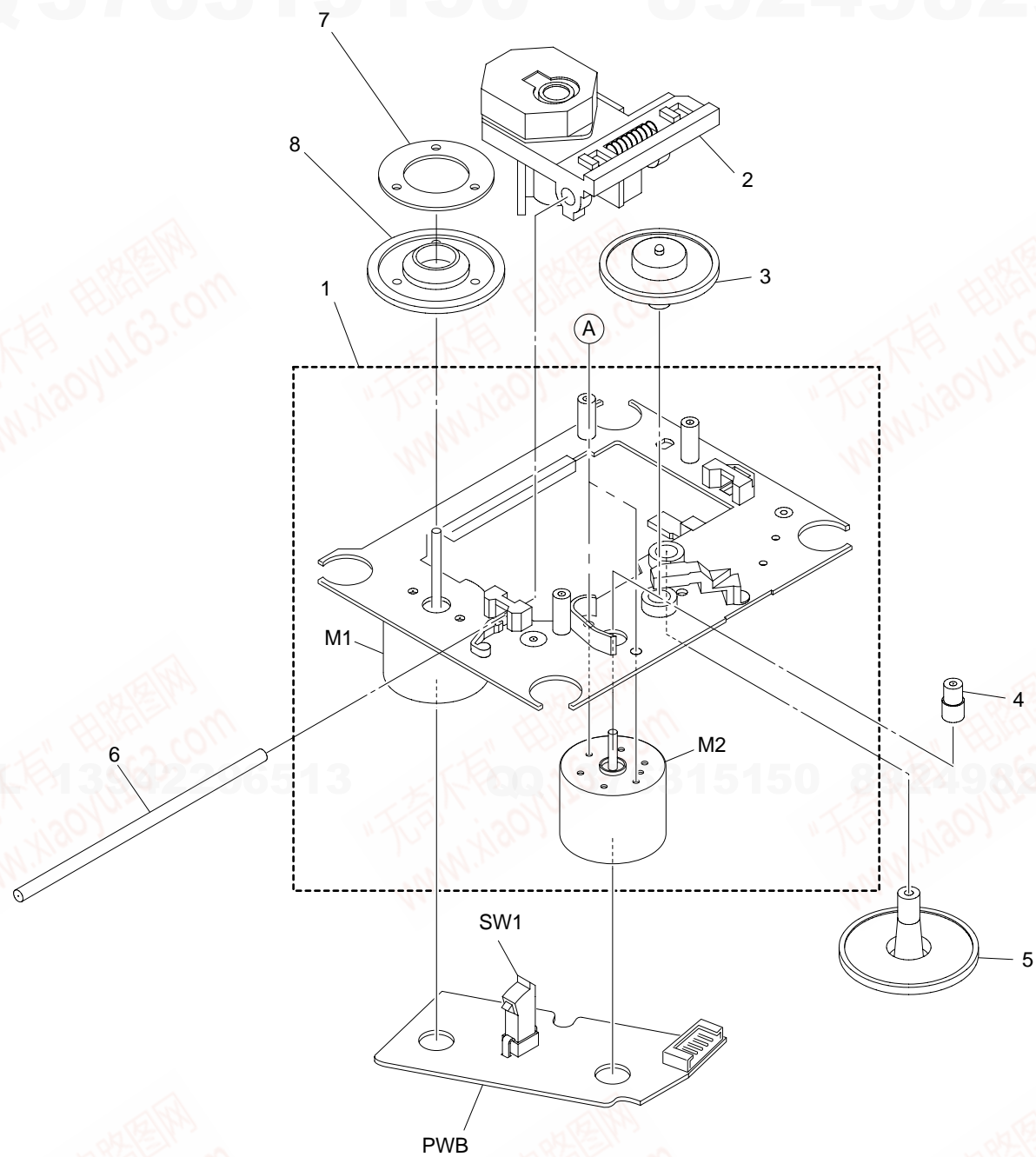


TAPE MECHANISM PARTS LIST-1/1 (2ZM-1 R15NF)

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM1-247-210		PULLEY, MOTOR	31	82-ZM1-240-110		LVR, REC (*)
2	82-ZM1-354-010		BELT, SBU MAIN2 EPDM	32	82-ZM1-259-210		SPR-T, PINCH R
3	82-ZM1-234-310		FLY-WHL ASSY, L	33	82-ZM1-257-010		SPR-T, CAS
4	82-ZM1-226-010		GEAR, REW	34	82-ZM1-285-410		SPR-C, BT L
5	82-ZM1-216-510		GEAR, REEL	35	82-ZM1-242-010		LVR, CAS
6	82-ZM1-221-310		GEAR, CAM (*)	36	82-ZM1-243-010		LVR, STOP
7	82-ZM1-237-610		FLY-WHL ASSY, R	37	82-ZM1-338-110		BELT, FR 4
8	82-ZM1-225-210		GEAR, FR	38	82-ZM3-353-010		SPR-T, HEAD 2
9	82-ZM1-224-410		LVR, FR	39	82-ZM1-207-910		GUIDE, TAPE
10	82-ZM3-333-310		SLIP DISK ASSY 2	40	82-ZM1-314-110		PLATE, HEAD
11	82-ZM1-223-010		GEAR, PLAY	41	82-ZM1-208-310		HLD, HEAD
12	82-ZM1-220-210		GEAR, IDLER	42	87-A90-821-010		HEAD, RPH HADKH56 FPC
13	82-ZM3-616-010		RING MAGNET 4	43	82-ZM1-210-110		GEAR, H T
14	82-ZM1-227-310		LVR, TRIG	44	82-ZM1-222-310		LVR, PLAY (*)
15	82-ZM1-305-210		SPR-E, TRIG 2	45	82-ZM1-344-210		LVR ASSY, PINCH R2
16	82-ZM1-255-310		SPR-E, LVR DIR	A	87-251-070-410		U+2.6-3
17	82-ZM1-322-010		SPR-T, FR 60	B	87-741-073-410		UT2+2.6-6 GLD
18	82-ZM1-358-010		CHAS ASSY, FPC	C	87-B10-008-010		W-P, 2.08-8-0.4-SLIP
19	82-ZM3-628-010		SOL ASSY, 23 SO	D	80-ZM6-243-010		SH 1.75-3.6-0.5 SLT
20	82-ZM1-341-210		LVR ASSY, PINCH L2	E	82-ZM3-334-010		PW 2.16-6-0.4
21	82-ZM1-258-210		SPR-T, PINCH L	F	86-ZM4-206-110		S-SCREW, AZIMUTH L
22	82-ZM1-333-210		PLATE, LINK2	G	85-ZM3-202-010		S-SCREW, TG
23	82-ZM1-244-510		SPR-C, BT	H	82-ZM3-222-010		S-SCREW, SHILD PLATE
24	82-ZM1-266-310		LVR, DIR	I	80-ZM6-207-010		V+1.6-7
25	82-ZM1-214-010		SPR-T, DIR				
26	82-ZM1-269-210		SPR-T, BRG				
27	82-ZM1-217-410		REEL TABLE				
28	82-ZM1-206-910		CHAS, HEAD				
29	82-ZM1-219-110		SPR-T, LINK				
30	82-ZM1-218-010		SPR-E, HB				

CD MECHANISM EXPLODED VIEW-1/1 (BZG-6 BNF)

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8B-ZG6-201-010		CHAS ASSY, SHT R
2	87-A91-995-010		PICKUP, PXR-104X-AP-0101
3	83-ZG2-235-010		GEAR, A3
4	83-ZG2-236-010		GEAR, MOTOR 3
5	83-ZG2-205-310		GEAR, B
6	83-ZG2-253-010		SHAFT, SLIDE 5
7	83-ZG2-226-410		TURN, TABLE B3
8	83-ZG2-241-110		PLATE, C2
A	87-261-032-210		V+2-3

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ACCESSORIES/PACKAGE LIST-1/1

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8B-CHE-906-010		IB,EZ (9L)M<FD94EZSF>
1	8B-CHE-901-010		IB,H (ECA)M<FD94HRJSF>
1	8B-CHE-903-010		IB,U (ESF)M<FD92USTF>
2	8A-CLB-961-210		RC UNIT,RC-AAT11
⚠	3	87-A80-109-010	AC CORD,HK7281 BLK U<FD92USTF>
⚠	3	8Z-RT5-601-010	CORD,AC POWER-KE21/KE22 KENIC <EXCEPT FD92USTF>
⚠	4	87-A91-017-010	PLUG,CONVERSION JT-0476<FD94HRJSF>

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