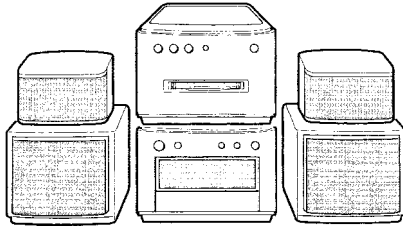


aiwa



XR-MD90



MD / CD STEREO SYSTEM

- BASIC MD MECHANISM: 7ZG-9 A1
- BASIC CD MECHANISM: KSM-542 ABA

• TYPE: EZ

SIMPLE MANUAL

Replace this Service Manual with "Revision Publishing" when it is issued.

SPECIFICATIONS

MAIN UNITS

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

MW tuner section

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 μ V/m
Antenna	Loop antenna

LW tuner section

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 μ V/m
Antenna	Loop antenna

Amplifier section

Power output	Rated: 16 W + 16 W (8 ohms, T.H.D. 1%, 1kHz/DIN 45500) Reference: 20 W + 20 W (8 ohms, T.H.D. 10%, 1kHz/DIN 45324) DIN MUSIC POWER 40 W + 40 W
Inputs	TAPE IN: 500 mV AUX IN: 500 mV
Outputs	SUPER WOOFER: 1.7 V SPEAKERS: accept speakers of 8 ohms or more LINE OUT: 340 mV PHONES (stereo minijack): accepts headphones of 32 ohms or more

Compact disc player section

Laser	Semiconductor laser ($\lambda = 780$ nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

MD recorder section


Scanning method	Non-contact optical scanner (Semiconductor laser application)
Recording system	Magnetic polarity modulation overwrite system
Rotation speed	Approx. 400 - 900 rpm (CLV)
Sampling frequency	44.1 kHz
No. of channels	Stereo: 2 channels Monaural: 1 channel
A-D, D-A converter	1-bit
Frequency	20 - 20000 Hz +0.2 - -1.5 dB
Wow and flutter	Unmeasurable

SPEAKER SYSTEM

Cabinet type	2 way, bass reflex (magnetic shielded type)
Speakers	Main speaker: 100 mm cone type Cardioid Speaker: 60 mm cone type 8 ohms
Impedance	8 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	140 x 202 x 185 mm
Weight	1.8 kg

General

Power requirements	230 V AC, 50 Hz
Power consumption	55 W
Dimensions (W x H x D)	CD player/MD recorder unit 144 x 101.5 x 176.1 mm Tuner/amplifier unit 144 x 101.5 x 208 mm
Weight	CD player / MD recorder unit 1.45 kg Tuner / amplifier unit 2.4 kg

- 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.
- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc. Under license from BBE Sound, Inc.

SPEAKER 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
1	88-CL1-941-010		PANEL,FR W
2	88-CL1-953-010		SPKR,100
3	88-CL1-954-010		SPKR,60
4	88-CL1-959-010		GRILLE,FRAME B ASSY
5	88-CL1-958-010		GRILLE,FRAME T ASSY
6	88-CL1-957-010		GRILLE,FRAME W ASSY
7	88-CL1-944-010		COVER,BOTTOM
8	88-CL1-943-010		COVER, TOP

ACCESSORIES/PACKAGE 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	S8-CL1-910-600		INSTRUCTION BOOK(MD90EZL)
2	S0-27N-F90-000		ANT,LOOP AM
3	S8-CLR-EM1-000		RC,RC-MD90

MECHANICAL PARTS LIST 1/2

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	S8-CL1-050-010		CAB,BOTTOM MD(GRY)	21	S8-CL1-010-010		PANEL,FRONT MD(GRY)
2	S8-CL1-080-100		DOOR,CD	22	S8-CL1-480-000		LENS,SENSOR REMOTE
3	S8-CL1-090-000		WINDOW,CD	23	S8-CL1-750-100		PLATE COVER FRONT MD
4	S8-CL1-030-100		CAB, TOP MD	24	S8-CL1-800-000		BADGE AIWA
5	S8-CL1-150-000		GEAR,DOOR CD				
6	S8-CL1-160-000		GEAR,DOOR CD	25	S8-CL1-640-000		FOOT,RUBBER 10-10-3
7	S8-CL1-170-000		GEAR,DOOR CD	A	87-751-097-410		SCREW ST3-12MM HEAD
8	S8-CL1-630-000		BELT,PULLEY CD 48-1.6-1.6	B	87-352-095-010		SCREW,ST3-8
9	S8-CL1-180-000		GEAR,DOOR CD	C	87-741-097-410		SCREW,ST3-12
10	S1-215-370-000		MOTOR RF-370CA-15370 12V	D	87-743-074-410		SCREW,ST2.6-8
11	S8-CL1-070-000		CHASSIS CD	E	87-741-096-010		SCREW,3-10MM PM
12	S8-CL1-450-000		HOLDER REMOTE SENSOR	F	87-251-092-410		SCREW,M3-4
13	S8-CL1-260-000		HOLDER LED	G	87-261-074-010		SCREW,ST2.6-8MM BB
14	S0-000-020-000		SW,MICRO MQS-2	H	87-743-073-410		SCREW,ST2.6-6
15	S8-CL1-120-010		KNOB,EJECT CD(GRY)	I	87-342-076-010		SCREW,ST2.6-12MM PAB
16	S8-CL1-110-010		KNOB,EJECT MD(GRY)	J	87-B10-026-010		SCREW,ST1.7-8
17	S8-CL1-470-000		BRACKET DOOR MD	K	87-353-533-310		SCREW,ST1.7-5
18	S8-CL1-130-100		DOOR,MD	L	87-081-438-010		FW,3-6-0.4
19	S8-CL1-740-000		SPR,DOOR MD				
20	S8-CL1-100-100		KNOB,PLAY SET				

MECHANICAL PARTS LIST 2/2

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	S8-CL1-350-010		KEY,SOUND	26	S8-CL1-220-000		CHASSIS PANEL CONTROL
2	S8-CL1-340-010		KEY,SET-EDIT	27	85-ZG1-616-010		MOTOR,FF-050SH-11190
3	S8-CL1-390-010		KEY,SET-FUNCTION	28	S8-CL1-410-000		PULLEY MOTOR TRAY
4	S8-CL1-380-100		KEY,SET-F.F	29	S8-CL1-620-000		BELT,PULLEY AMP
5	S8-CL1-370-100		KEY,SET-CD(GRY)	30	S8-CL1-420-000		GEAR,TRAY
6	S8-CL1-360-100		KEY,SET-REC	31	S8-CL1-430-000		CENTER GEAR TRAY
7	S8-CL1-800-000		BADGE AIWA	32	S8-CL1-660-000		BRACKET CORD AC
8	S8-CL1-200-010		PANEL,TOP CONTROL	33	S0-000-010-010		SW,MIRCO MLS-1
9	S8-CL1-710-100		PLATE CONTROL PANEL				
10	S8-CL1-230-010		KEY,JOG GREY	A	87-357-036-010		SCREW ST 2-8
				B	87-268-508-310		SCREW,ST1.4-3.5
11	S8-CL1-280-100		CAB,TOP AMP	C	87-352-095-010		SCREW,ST3-8
12	S8-CL1-760-200		PLATE PANEL FRONT AMP	D	87-741-097-410		SCREW,ST3-12
13	S8-CL1-190-100		LENS,DISPLAY	E	87-261-075-010		SCREW,ST2.6-10MM BB
14	S8-CL1-210-000		TRAY,PANEL CONTROL				
15	S8-CL1-020-010		PANEL,FRONT AMP	F	87-255-169-410		SCREW,4-6
16	S8-CL1-400-010		KNOB,POWER(GRY)	G	87-261-094-410		SCREW,M3-6
17	S8-CL1-060-010		CAB,BOTTOM AMP	H	87-352-097-210		SCREW,ST3-12
18	S0-041-380-000		LCD DISPLAY	I	87-261-074-010		SCREW,ST2.6-8MM BB
19	S8-CL1-680-000		BKT DISPLAY LCD	J	87-067-911-010		SCREW,ST1.7-10
20	S8-CL1-640-000		FOOT,RUBBER 10-10-3	K	87-078-157-010		SCREW,ST3-16
⚠	21	S5-866-361-400	POWER TF EI-66/36	L	87-253-095-410		SCREW 3-8
	22	S0-900-120-000	COOLING FAN DC12V 0.08A	M	87-751-096-410		SCREW,3-10
	23	S8-CL1-240-010	BRACKET FAN	N	87-251-094-410		SCREW,ST3-6
	24	S0-408-000-020	CORD AC BUSHING	O	S0-000-305-000		NUT,M3.5-0.5
⚠	25	S2-201-200-000	CORD,POWER 6.5 VDE	P	87-078-044-010		FW,3.2-8-1

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					S3-MTZ-J91-BM0		ZENER, 9.1V
					S0-254-010-000		DIODE, 1N5401BL
					S0-100-680-010		ZENER, 6.8V MTZJ6.8B
	87-A20-698-080		C-IC, AK4512VF				
	87-A20-755-080		C-IC, AK93C45AF				
	87-A20-711-040		C-IC, BA5970FP				
	87-A20-712-040		C-IC, BA6417F				
	87-A20-709-040		C-IC, BD7910FV				
				TUNER C.B			
	87-A20-707-010		C-IC, CXA2523AR	C101	87-010-067-080		CAP, E 0.1-50V
	87-A20-708-010		C-IC, CXD2652AR	C102	87-010-067-080		CAP, E 0.1-50V
	87-A20-714-040		C-IC, NJM2370U33	C103	87-010-067-080		CAP, E 0.1-50V
	87-A20-797-040		C-IC, NJU7221U30	C104	87-010-067-080		CAP, E 0.1-50V
	87-A20-798-040		C-IC, NJU7221U35	C105	87-010-067-080		CAP, E 0.1-50V
	87-A20-710-040		C-IC, S-8110AMP	C106	87-010-067-080		CAP, E 0.1-50V
	87-017-920-040		IC, HM51W4400BS/BLS78	C109	87-010-380-010		CAP, E 47-16V
	87-017-853-040		IC, NJM2100V	C113	87-010-380-010		CAP, E 47-16V
	S8-320-570-000		IC, TA2057N	C114	87-010-074-080		CAP, E 4.7-35V
	S8-492-570-000		IC, TC9257F	C116	87-010-545-010		ELECT CAP 0.22-50V
	87-070-060-040		IC, TA2040AF	C120	87-015-975-010		CAP, E 220-6.3V
	S9-187-470-000		IC, TMP87CH47U-4A90	C121	87-010-075-040		CAP, E 10-16V
	S8-279-340-000		IC, T7934-000	C126	87-010-221-010		CAP, E 470-10V
	87-017-726-080		IC, BU4052BCF	C129	87-010-071-040		CAP, E 1-50V
	87-001-607-080		IC, BA4558F-E2	C130	87-010-071-040		CAP, E 1-50V
	87-070-101-010		IC, TC9284AF	C135	87-010-074-080		CAP, E 4.7-35V
	87-070-134-010		IC, TA2065F	C137	87-010-074-080		CAP, E 4.7-35V
	87-A20-157-010		IC, TA2092N	C141	87-015-975-010		CAP, E 220-6.3V
	S9-187-400-000		IC, TMP87CM40AF-4A85	C142	87-010-074-080		CAP, E 4.7-35V
	87-001-982-010		IC, TA7291S	C148	87-010-380-010		CAP, E 47-16V
	87-002-368-010		IC, NJM7805FA	C168	87-010-071-040		CAP, E 1-50V
	S8-CL1-270-000		IC, REGULATOR(B) 8CL1-27	C179	87-010-079-010		CAP, E 100-6.3V
	87-017-917-080		IC, BU4066BCF	C180	87-010-074-080		CAP, E 4.7-35V
	S4-038-540-000		IC, BH3854AFS	C282	87-010-079-010		CAP, E 100-6.3V
	87-A20-056-010		IC, BA3880S	C288	87-010-075-040		CAP, E 10-16V
	87-022-899-010		IC, STK4122MK2	CF1	S0-001-070-010		CER, FILTER
	87-NF8-617-010		IC, LA1836(L)	CF2	S0-001-070-010		CER, FILTER
				CF102	S6-010-700-010		CER, RESO CDA10.7MG43-A
				CF103	S6-004-560-050		CER, RESO CSB456F29
				CF106	S6-003-600-000		CER, RESO
TRANSISTOR				CON2	S0-401-540-000		SPKR, TERMINAL 4P
	87-026-412-080		C-TR RN1305	CON102	S0-524-180-900		B-B HEADER 9PI
	87-026-423-080		C-TR RN2305	F81	A8-6ZA-196-030		TUNER PACK FM 6ZA-1YFEJNC
	87-026-226-080		CHIP-TR, DTA143EK	IPT101	87-A90-245-010		IFT, CFAZH-450
	89-115-884-080		CHIP-TRANSISTOR, 2SA1588Y	IPT105	S7-NF8-020-240		IFT, AM PACK 4 455BFR-121
	89-341-164-080		CHIP-TRANSISTOR, 2SC4116Y				
	89-327-143-080		C-TR, 2SC2714	L101	87-003-098-080		INDUCTOR, 2.2UH
	87-026-230-010		C-TR, DTA114YK	L112	87-003-147-010		COIL, 22UH
	89-502-114-080		C-FET, 2SK211-Y/GR	L113	87-005-196-080		INDUCTOR, 10UH
	89-502-094-080		C-FET, 2SK209Y	L281	87-005-696-080		INDUCTOR, 100UH
	89-327-126-080		C-TR, 2SC2712GR	PT281	S1-667-260-000		PT, EL EI-16
	87-026-213-010		C-TR, DTC114YK	SFR101	S1-030-850-000		SFR, 10K
	87-026-227-010		C-TR, DTA114EK/A	X101	S6-072-000-000		X'TAL 7.2 MHz
	87-026-200-080		TR, DTC114ES				
	S7-855-000-020		TR, PE8550B, C	POWER C.B			
	87-026-239-080		C-TR, DTC114TK/TKA	C807	87-010-404-010		CAP, E 4.7-50V
	89-111-625-080		C-TR, 2SA1162GR	C808	87-010-404-010		CAP, E 4.7-50V
	S7-805-000-020		TR, PE8050B, C, D	C815	87-010-546-080		CAP, E 0.33-50V
	89-304-583-010		TR, 2SC458C	C816	87-010-546-080		CAP, E 0.33-50V
	89-213-702-010		TR, 2SB1370E/F	C819	87-010-038-010		CAP, E 22-25V
				C821	87-010-380-010		CAP, E 47-16V
DIODE				C822	87-010-263-080		ELECT CAP 100-10V
	87-A40-412-040		C-DIODE, SB05-05CP	C824	87-A10-189-080		CAP, E 220-10V
	87-001-166-080		DIODE, 1SS301	C825	87-010-545-010		CAP, E 0.22-50V
	87-027-513-010		ZENER, 1N5232B 5.6V1/2W	C826	87-010-545-010		CAP, E 0.22-50V
	87-070-136-080		ZENER, 5.1V	C835	87-010-380-010		CAP, E 47-16V
	82-135-799-010		DIODE, 1N4148	C837	87-010-404-010		CAP, E 4.7-50V
	S0-100-221-200		ZENER, 2.2V	C838	87-010-404-010		CAP, E 4.7-50V
	87-020-465-010		DIODE, 1SS133	C839	87-010-404-010		CAP, E 4.7-50V
	82-596-799-010		DI, 1N4001B	C840	87-010-404-010		CAP, E 4.7-50V
	S0-100-560-000		ZENER, 5.6V	C842	87-A10-189-080		CAP, E 220-10V
	87-020-511-010		ZENER, 05AZ4.7V	C843	87-010-399-090		CAP, E 3300-35V
	S0-100-821-200		ZENER, 8.2V, 1/2W	C844	87-010-398-090		CAP, E 2200-35V
				C849	87-010-249-010		CAP, E 470-16V

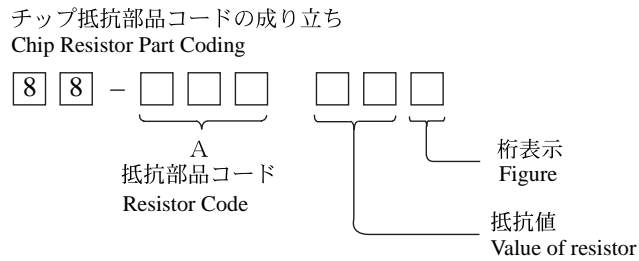
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C850	87-A10-189-080	CAP, E	220-10V	SW306	SK-HH9-010-000	SW, TACT	KSM0612A
C852	87-010-221-010	CAP, E	470-10V	SW307	SK-HH9-010-000	SW, TACT	KSM0612A
C854	87-010-038-010	CAP, E	22-25V	SW308	SK-HH9-010-000	SW, TACT	KSM0612A
C858	87-010-403-010	CAP, E	3.3-50V	SW309	SK-HH9-010-000	SW, TACT	KSM0612A
C862	87-010-388-010	CAP, E	1000-25V	SW310	SK-HH9-010-000	SW, TACT	KSM0612A
C865	87-010-237-010	CAP, E	1000-16V	SW311	SK-HH9-010-000	SW, TACT	KSM0612A
△FR801	S1-250-300-000	FUSE, PROTECTOR		SW312	SK-HH9-010-000	SW, TACT	KSM0612A
△FR802	S1-250-300-000	FUSE, PROTECTOR		SW313	SK-HH9-010-000	SW, TACT	KSM0612A
△FR803	S1-250-300-000	FUSE, PROTECTOR		SW314	SK-HH9-010-000	SW, TACT	KSM0612A
J801	S0-055-301-200	CONN, BOARD TO BOARD	12P	SW315	SK-HH9-010-000	SW, TACT	KSM0612A
J803	S0-524-180-800	B-B HEADER	8PI	SW316	SK-HH9-010-000	SW, TACT	KSM0612A
J804	S0-528-070-700	CONN, FFC	7P	SW317	SK-HH9-010-000	SW, TACT	KSM0612A
J805	S0-011-171-700	CONN, SOCKET	FFC 17P	SW318	SK-HH9-010-000	SW, TACT	KSM0612A
				SW351	SH-132-032-000		ROTARY ENCODER
AMP C.B				SPEAKER C.B			
C903	87-010-494-010	CAP, E	1-50V	J603	S0-202-130-000	JACK, PIN	3P
C904	87-010-045-010	CAP, E	100-25V				
C905	87-010-045-010	CAP, E	100-25V				
C913	87-A10-818-040	CAP, E	100-16V				
C914	87-A10-818-040	CAP, E	100-16V				
				PT C.B			
C915	87-010-035-010	CAP, E	2.2-50V	J604	S0-702-000-000	CONN, PIN	7P
C916	87-010-035-010	CAP, E	2.2-50V	J614	S0-532-650-200	HEADER MOLEX	2P
C917	87-010-037-010	CAP, E	10-50V	△PT801	S5-866-361-400	POWER TF EI-66/36	230V
C918	87-010-380-010	CAP, E	47-16V				
C919	87-010-393-010	CAP, E	100-35V				
				FUSE C.B			
C921	87-A10-818-040	CAP, E	100-16V	△F901	S7-900-000-000	FUSE HOLDER	
C923	87-010-045-010	CAP, E	100-25V	△F901	S0-050-200-020	FUSE, 500/250V	
C924	87-A10-818-040	CAP, E	100-16V				
C925	87-010-380-010	CAP, E	47-16V				
C926	87-A10-818-040	CAP, E	100-16V				
				MD MAIN C.B			
C927	87-010-494-010	CAP, E	1-50V	C507	87-010-404-010	CAP, E	4.7-50V
J908	S0-401-400-000	CONN, PIN	4P	C508	87-010-404-010	CAP, E	4.7-50V
M1	85-ZG1-616-010	MOTOR, FF-050SH-11190		C518	87-010-037-010	CAP, E	10-50V
M2	S0-900-120-000	COOLING FAN	DC12V 0.08A	C521	87-010-263-080	ELECT CAP	100-10V
R956	S2-054-100-010	THERMISTOR	T5D410K45JBPDA-0	C523	87-010-263-080	ELECT CAP	100-10V
				C527	87-010-221-010	CAP, E	470-10V
DISPLAY C.B				C533	87-010-263-080	ELECT CAP	100-10V
BL201	S0-904-100-000	EL BACKLIGHT	114-36	C540	87-010-380-010	CAP, E	47-16V
C204	87-010-782-010	CAP, E	47000-5.5V	C541	87-010-037-010	CAP, E	10-50V
C205	87-010-079-010	CAP, E	100-6.3V	C547	87-010-549-010	CAP, E	47-6.3V
C207	87-010-071-040	CAP, E	1-50V				
C208	87-010-071-040	CAP, E	1-50V	C549	87-010-549-010	CAP, E	47-6.3V
FC3	S0-702-501-000	FFC CABLE	7P 250MM	C555	87-010-244-040	CAP, E	22-16V
FC4	S0-701-801-000	FFC CABLE	7P 180MM	C556	87-010-549-010	CAP, E	47-6.3V
H201	S0-532-900-900	B-B RECEPTACLE	9P	C558	87-010-037-010	CAP, E	10-50V
H202	S0-528-060-700	CONN, FFC	7P	C561	87-010-406-080	ELECT CAP	22-50V
H203	S0-532-900-800	B-B RECEPTACLE	8P				
H204	S0-528-060-700	CONN, FFC	7P	C566	87-010-263-080	ELECT CAP	100-10V
J201	S0-035-183-500	HP, JACK	ST 3.5MM	C569	87-010-248-080	ELECT CAP	220-10V
L201	87-003-097-010	COIL, 1UH		C574	87-010-047-010	CAP, E	100-50V
L202	S0-035-341-000	COIL, BEAD	100MHZ	C575	87-010-047-010	CAP, E	100-50V
L203	S0-035-341-000	COIL, BEAD	100MHZ	C701	87-010-418-040	CAP, E	3.3-25V
L204	S0-035-341-000	COIL, BEAD	100MHZ				
LCD101	S0-041-380-000	LCD DISPLAY		C705	87-010-401-010	CAP, E	1-50V
RN201	S2-291-030-000	RES, NETWORK	EXB-Z9E103J	C706	87-010-401-010	CAP, E	1-50V
SW201	SK-HH9-010-000	SW, TACT	KSM0612A	C707	87-010-401-010	CAP, E	1-50V
SW202	SK-HH9-010-000	SW, TACT	KSM0612A	C708	87-010-401-010	CAP, E	1-50V
SW203	SK-HH9-010-000	SW, TACT	KSM0612A	C713	87-010-075-040	CAP, E	10-16V
SW204	SK-HH9-010-000	SW, TACT	KSM0612A				
SW205	S0-000-010-010	SW, MIRCO	MLS-1	C714	87-A10-189-080	CAP, E	220-10V
X201	S3-327-680-000	X, TAL	32.768KHZ	C715	87-010-401-010	CAP, E	1-50V
X202	S0-008-000-000	CER, RESO	8 MHZ	C716	87-010-401-010	CAP, E	1-50V
				C721	87-010-401-010	CAP, E	1-50V
				C722	87-010-401-010	CAP, E	1-50V
				C723	87-010-112-010	CAP, E	100-16V
				C724	87-A10-189-080	CAP, E	220-10V
				C727	87-010-782-010	CAP, E	47000-5.5V
				C728	87-010-263-080	ELECT CAP	100-10V
				C731	87-010-124-090	CAP, E	4700-16V
				C732	87-016-045-080	CAP, E	1000-6.3V
				C736	87-010-401-010	CAP, E	1-50V
				C737	87-010-401-010	CAP, E	1-50V
KEY C.B							
H301	S0-528-070-700	CONN, FFC	7P				
SW302	SK-HH9-010-000	SW, TACT	KSM0612A				
SW304	SK-HH9-010-000	SW, TACT	KSM0612A				
SW305	SK-HH9-010-000	SW, TACT	KSM0612A				

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C743	87-010-075-040	CAP,E 10-16V		C100	87-A10-418-080	C-CAP,TN 22-4 A TCF	
C751	87-010-401-010	CAP,E 1-50V		C101	87-A10-418-080	C-CAP,TN 22-4 A TCF	
C752	87-010-401-010	CAP,E 1-50V		C102	87-012-286-080	CAP, U 0.01-25	
C755	87-015-716-010	CAP,E 22-16V		C103	87-010-787-080	CAP, U 0.022-25	
C756	87-010-075-040	CAP,E 10-16V		C104	87-010-662-080	C-CAP,E 22-6.3	
C761	87-010-075-040	CAP,E 10-16V		C105	87-010-831-080	C-CAP,U,0.1-16F	
C770	87-010-401-010	CAP,E 1-50V		C106	87-016-462-080	C-CAP,S 1-16 F	
C771	87-010-401-010	CAP,E 1-50V		C107	87-012-195-080	C-CAP,U 100P-50CH	
C772	87-010-075-040	CAP,E 10-16V		C108	87-012-274-080	CHIP CAP,U 1000P-50B	
CON701	S0-524-181-200	B-B HEADER 12P		C109	87-016-436-080	C-CAP,TN 47-4(B2)	
CON702	S1-78C-L12-010	CONN-PLUG FC SMK 17P		C111	87-A10-418-080	C-CAP,TN 22-4 A TCF	
FC1	S1-401-201-000	FFC CABLE 14P 120MM		C112	87-012-286-080	CAP, U 0.01-25	
FC2	S0-801-201-000	FFC CABLE 8P 120MM		C113	87-012-284-080	CAP, U 6800P-50	
H501	S0-000-151-510	CONN,SNAP-IN 15P		C114	87-010-828-080	CHIP CAPACITOR,U 0.033-25F	
H502	S0-000-020-210	HEADER JST 2P		C115	87-A10-369-080	C-CAP,S 0.47-16 K B	
H503	S0-000-020-220	HEADER JST 2P(RED)		C116	87-012-282-080	CAP, U 4700P-50	
H504	S0-000-020-230	HEADER JST 2P(BLU)		C117	87-016-462-080	C-CAP,S 1-16 F	
H703	S0-000-020-230	HEADER JST 2P(BLU)		C118	87-012-282-080	CAP, U 4700P-50	
H706	S0-528-061-400	CONN,FFC 14P		C119	87-016-491-080	C-CAP,S 0.22-16 FZ	
H707	S0-528-060-800	CONN,FFC 8P		C120	87-010-787-080	CAP, U 0.022-25	
H708	S0-000-020-220	HEADER JST 2P(RED)		C121	87-012-286-080	CAP, U 0.01-25	
L501	87-005-696-080	INDUCTOR,100UH		C122	87-010-829-080	CAP, U 0.047-16	
L502	S0-035-341-000	COIL,BEAD 100MHZ		C123	87-012-286-080	CAP, U 0.01-25	
L503	S0-035-341-000	COIL,BEAD 100MHZ		C124	87-010-662-080	C-CAP,E 22-6.3	
M701	S1-215-370-000	MOTOR RF-370CA-15370 12V		C125	87-010-662-080	C-CAP,E 22-6.3	
RN701	S2-291-030-000	RES,NETWORK EXB-Z9E103J		C201	87-010-831-080	C-CAP,U,0.1-16F	
RN702	S2-291-030-000	RES,NETWORK EXB-Z9E103J		C202	87-010-831-080	C-CAP,U,0.1-16F	
RN703	S2-291-030-000	RES,NETWORK EXB-Z9E103J		C203	87-010-785-080	C-CAP,U0.015-25BK	
SW701	S0-000-020-000	SW,MICRO MQS-2		C204	87-016-461-080	C-CAP,S 0.47-16F	
SW702	S0-000-020-000	SW,MICRO MQS-2		C205	87-010-831-080	C-CAP,U,0.1-16F	
VR501	87-024-171-080	SFR,5K		C206	87-012-270-080	CAP, U 470P-50	
VR502	87-024-176-080	SFR,100K		C207	87-016-461-080	C-CAP,S 0.47-16F	
VR503	87-024-176-080	SFR,100K		C208	87-012-286-080	CAP, U 0.01-25	
VR504	87-024-176-080	SFR,100K		C209	87-010-831-080	C-CAP,U,0.1-16F	
X501	S0-016-930-000	CER,RESO		C210	87-012-172-080	CAPACITOR CHIP U 10P CH	
X701	S3-327-680-000	X,TAL 32.768KHZ		C211	87-012-172-080	CAPACITOR CHIP U 10P CH	
X703	S0-008-000-000	CER,RESO 8 MHZ		C212	87-012-195-080	C-CAP,U 100P-50CH	
				C213	87-010-662-080	C-CAP,E 22-6.3	
				C214	87-012-274-080	CHIP CAP,U 1000P-50B	
				C217	87-012-188-080	C-CAP,U 47P-50 CH	
				C218	87-012-188-080	C-CAP,U 47P-50 CH	
FUNCTION C.B				C219	87-A10-418-080	C-CAP,TN 22-4 A TCF	
C401	87-010-401-010	CAP,E 1-50V		C220	87-010-662-080	C-CAP,E 22-6.3	
C402	87-010-401-010	CAP,E 1-50V		C221	87-010-831-080	C-CAP,U,0.1-16F	
C407	87-010-401-010	CAP,E 1-50V		C222	87-016-444-080	C-CAP,TN 47-10 F95E	
C408	87-010-401-010	CAP,E 1-50V		C223	87-010-831-080	C-CAP,U,0.1-16F	
C411	87-A10-818-040	CAP,E 100-16V		C224	87-A10-685-080	C-CAP,S 470P-100 J CH	
C412	87-A10-818-040	CAP,E 100-16V		C225	87-010-831-080	C-CAP,U,0.1-16F	
C413	87-010-075-040	CAP,E 10-16V		C226	87-010-831-080	C-CAP,U,0.1-16F	
C414	87-010-075-040	CAP,E 10-16V		C227	87-012-274-080	CHIP CAP,U 1000P-50B	
C415	87-010-401-010	CAP,E 1-50V		C228	87-012-274-080	CHIP CAP,U 1000P-50B	
C416	87-010-401-010	CAP,E 1-50V		C229	87-012-274-080	CHIP CAP,U 1000P-50B	
CON401	S0-532-901-200	B-B RECEPTACLE 12P		C232	87-012-274-080	CHIP CAP,U 1000P-50B	
J401	S0-202-460-010	JACK,PIN 3Px2		C233	87-012-274-080	CHIP CAP,U 1000P-50B	
PANEL C.B				C236	87-010-831-080	C-CAP,U,0.1-16F	
C601	87-010-053-810	CAP,E 1-50V		C300	87-010-831-080	C-CAP,U,0.1-16F	
H705	S2-001-WR0-700	HEADER 7P		C301	87-010-831-080	C-CAP,U,0.1-16F	
LED651	S0-005-310-050	LED,5MM(GRN)		C302	87-010-831-080	C-CAP,U,0.1-16F	
LED652	S0-005-310-050	LED,5MM(GRN)		C305	87-016-462-080	C-CAP,S 1-16 F	
LED653	S0-005-310-050	LED,5MM(GRN)		C307	87-010-831-080	C-CAP,U,0.1-16F	
REM601	S0-006-380-000	RC,PHOTO RECEIVER		C308	87-010-831-080	C-CAP,U,0.1-16F	
SW601	SK-HH9-010-000	SW,TACT KSM0612A		C311	87-010-662-080	C-CAP,E 22-6.3	
SW602	SK-HH9-010-000	SW,TACT KSM0612A		C312	87-012-195-080	C-CAP,U 100P-50CH	
SW603	SK-HH9-010-000	SW,TACT KSM0612A		C321	87-012-274-080	CHIP CAP,U 1000P-50B	
SW606	SK-HH9-010-000	SW,TACT KSM0612A		C322	87-012-274-080	CHIP CAP,U 1000P-50B	
SW607	SK-HH9-130-000	SW,PB(CSDSR510,515)		C323	87-012-274-080	CHIP CAP,U 1000P-50B	
MD C.B				C324	87-012-274-080	CHIP CAP,U 1000P-50B	
				C325	87-012-274-080	CHIP CAP,U 1000P-50B	
				C400	87-010-831-080	C-CAP,U,0.1-16F	
				C401	87-010-831-080	C-CAP,U,0.1-16F	

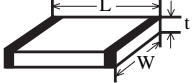
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C402	87-010-831-080		C-CAP,U,0.1-16F				
C403	87-010-831-080		C-CAP,U,0.1-16F	C603	87-010-662-080		C-CAP,E 22-6.3
C404	87-010-831-080		C-CAP,U,0.1-16F	C604	87-010-779-080		C-CAP,E 100-6.3
C405	87-010-661-080		C-CAP,E 10-16	C605	87-012-286-080		CAP, U 0.01-25
C406	87-010-779-080		C-CAP,E 100-6.3	C607	87-010-831-080		C-CAP,U,0.1-16F
C407	87-012-197-080		C-CAP,U 150P-50 CH	C608	87-010-831-080		C-CAP,U,0.1-16F
C408	87-012-197-080		C-CAP,U 150P-50 CH	FC100	87-ZG9-602-010		FF-CABLE, 21P 0.5 90MM
C411	87-012-271-080		CAP, U 560P-50	FC400	87-ZG9-603-010		FF-CABLE, 8P 1.0 120MM
C412	87-012-271-080		CAP, U 560P-50	FC401	87-ZG9-604-010		FF-CABLE, 5P 1.25 100MM
C413	87-012-197-080		C-CAP,U 150P-50 CH	L100	87-A50-117-080		C-COIL,10UHLQH3C
C414	87-012-197-080		C-CAP,U 150P-50 CH	L101	87-A50-012-080		C-COIL,100UH LQH3C
C417	87-012-268-080		C-CAP,U 330P-50 B	L102	87-A50-117-080		C-COIL,10UHLQH3C
C418	87-012-268-080		C-CAP,U 330P-50 B	L103	87-A50-117-080		C-COIL,10UHLQH3C
C423	87-012-286-080		CAP, U 0.01-25	L201	87-A50-117-080		C-COIL,10UHLQH3C
C424	87-012-286-080		CAP, U 0.01-25	L202	87-A50-117-080		C-COIL,10UHLQH3C
C429	87-012-286-080		CAP, U 0.01-25	L203	87-A50-116-080		C-COIL,4.7UHLQH3C
C430	87-012-286-080		CAP, U 0.01-25	L301	87-A50-117-080		C-COIL,10UHLQH3C
C431	87-010-779-080		C-CAP,E 100-6.3	L501	87-A50-116-080		C-COIL,4.7UHLQH3C
C434	87-010-831-080		C-CAP,U,0.1-16F	L502	87-A50-116-080		C-COIL,4.7UHLQH3C
C501	87-010-831-080		C-CAP,U,0.1-16F	L503	87-A50-116-080		C-COIL,4.7UHLQH3C
C502	87-010-831-080		C-CAP,U,0.1-16F	L504	87-005-774-080		C-COIL,4BLH
C503	87-010-662-080		C-CAP,E 22-6.3	L505	87-005-774-080		C-COIL,4BLH
C504	87-010-831-080		C-CAP,U,0.1-16F	L611	87-A50-163-080		C-COIL,ZBFS5101-PT
C505	87-010-662-080		C-CAP,E 22-6.3	L612	87-005-512-080		C-COIL,BLM21A05
C506	87-010-831-080		C-CAP,U,0.1-16F	L613	87-005-512-080		C-COIL,BLM21A05
C507	87-010-661-080		C-CAP,E 10-16	L614	87-A50-163-080		C-COIL,ZBFS5101-PT
C508	87-010-831-080		C-CAP,U,0.1-16F	L615	87-A90-034-080		C-FLTR,EMI BLM41P750
C509	87-010-662-080		C-CAP,E 22-6.3	L616	87-A50-163-080		C-COIL,ZBFS5101-PT
C510	87-010-831-080		C-CAP,U,0.1-16F	R423	87-025-564-080		C-RES,U M/F 47K D
C511	87-010-661-080		C-CAP,E 10-16	R424	87-025-564-080		C-RES,U M/F 47K D
C513	87-010-661-080		C-CAP,E 10-16	R425	87-022-583-080		C-RES,U M/F 12K D
C514	87-010-661-080		C-CAP,E 10-16	R426	87-022-583-080		C-RES,U M/F 12K D
C515	87-012-337-080		C-CAP,U 56P-50 CH	X200	87-A70-105-080		C-VIB,XTAL 22.5792MHZ SMD-49
C516	87-012-337-080		C-CAP,U 56P-50 CH	X301	87-A70-100-080		C-VIB,CER 12.0MHZ PBRC-BR-A
C517	87-012-278-080		C-CAP,U 2200P-50 B				
C518	87-012-278-080		C-CAP,U 2200P-50 B				
C519	87-010-831-080		C-CAP,U,0.1-16F	LOAD C.B			
C520	87-010-661-080		C-CAP,E 10-16	M450	87-A90-672-010		MOT,M25E-4
C521	87-010-831-080		C-CAP,U,0.1-16F	SW451	87-A90-673-010		SW,MICRO ESE11SH1C
C522	87-010-661-080		C-CAP,E 10-16	SW452	87-A90-117-010		SW,PUSH 1-1-1 MPU103
C523	87-010-662-080		C-CAP,E 22-6.3				
C524	87-010-662-080		C-CAP,E 22-6.3	MECHA C.B			
C525	87-012-274-080		CHIP CAP,U 1000P-50B	SW400	87-A90-611-010		SW,PUSH 3-2-2 MPU20300MLB0
C526	87-012-274-080		CHIP CAP,U 1000P-50B	SW401	87-A90-612-010		SW,PUSH 2-1-1 MPU10371MLB1
C527	87-010-661-080		C-CAP,E 10-16				
C528	87-010-661-080		C-CAP,E 10-16				
C530	87-010-831-080		C-CAP,U,0.1-16F				
C531	87-010-831-080		C-CAP,U,0.1-16F				
C600	87-010-662-080		C-CAP,E 22-6.3				
C601	87-010-779-080		C-CAP,E 100-6.3				
C602	87-010-779-080		C-CAP,E 100-6.3				

- 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.

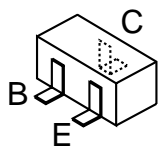
○ チップ抵抗部品コード / CHIP RESISTOR PART CODE



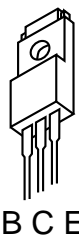
チップ抵抗
Chip resistor

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



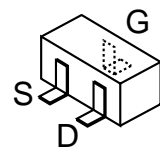
2SA1162 DTA143EK
2SA1588 DTC114TK/TKA
2SC2712 DTC114YK
2SC2714 RN1305
2SC4116 RN2305
DTA114YK



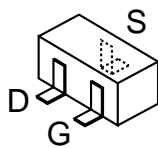
2SB1370



2SC458



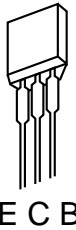
2SK209



2SK211



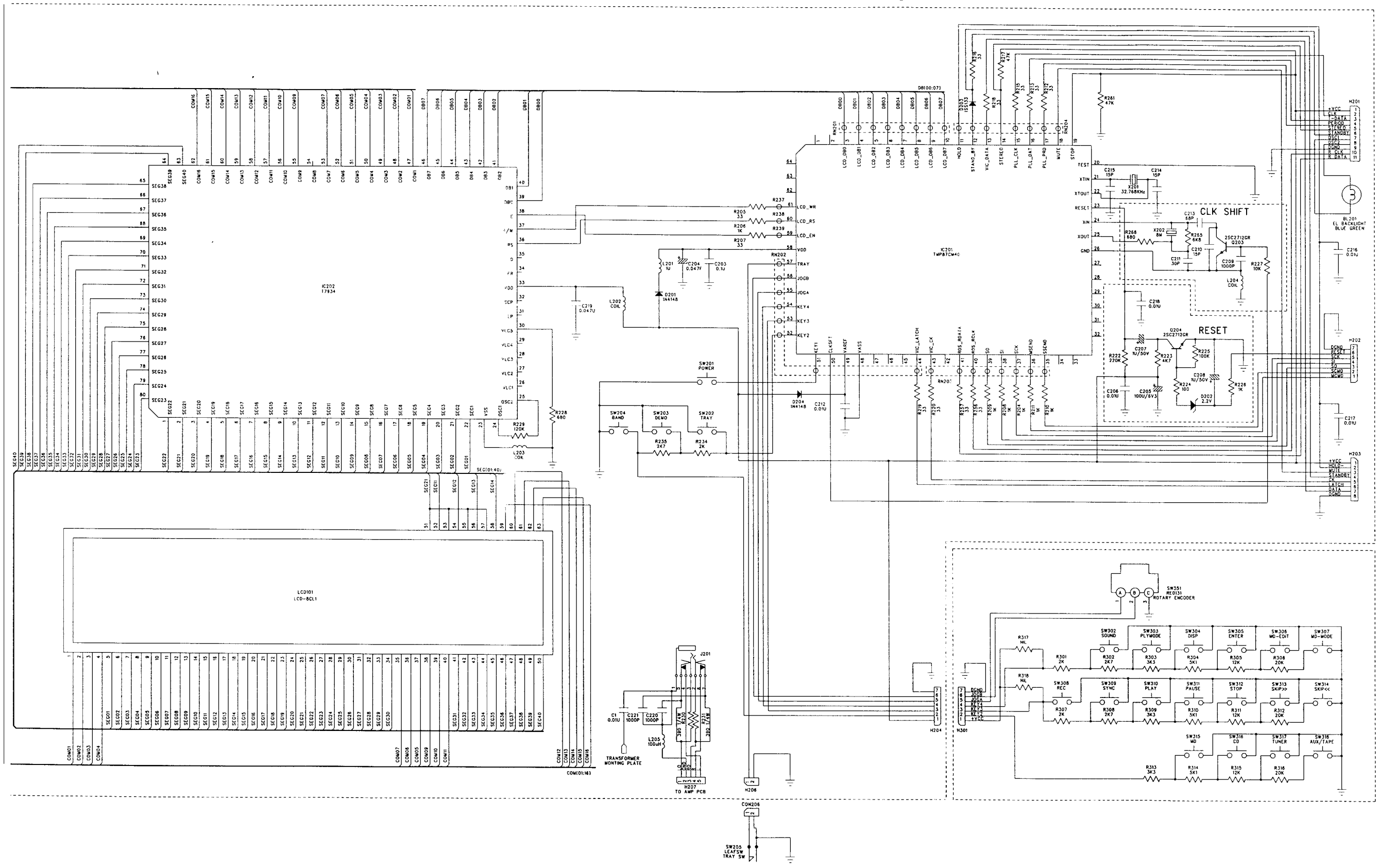
PE8050
PE8550



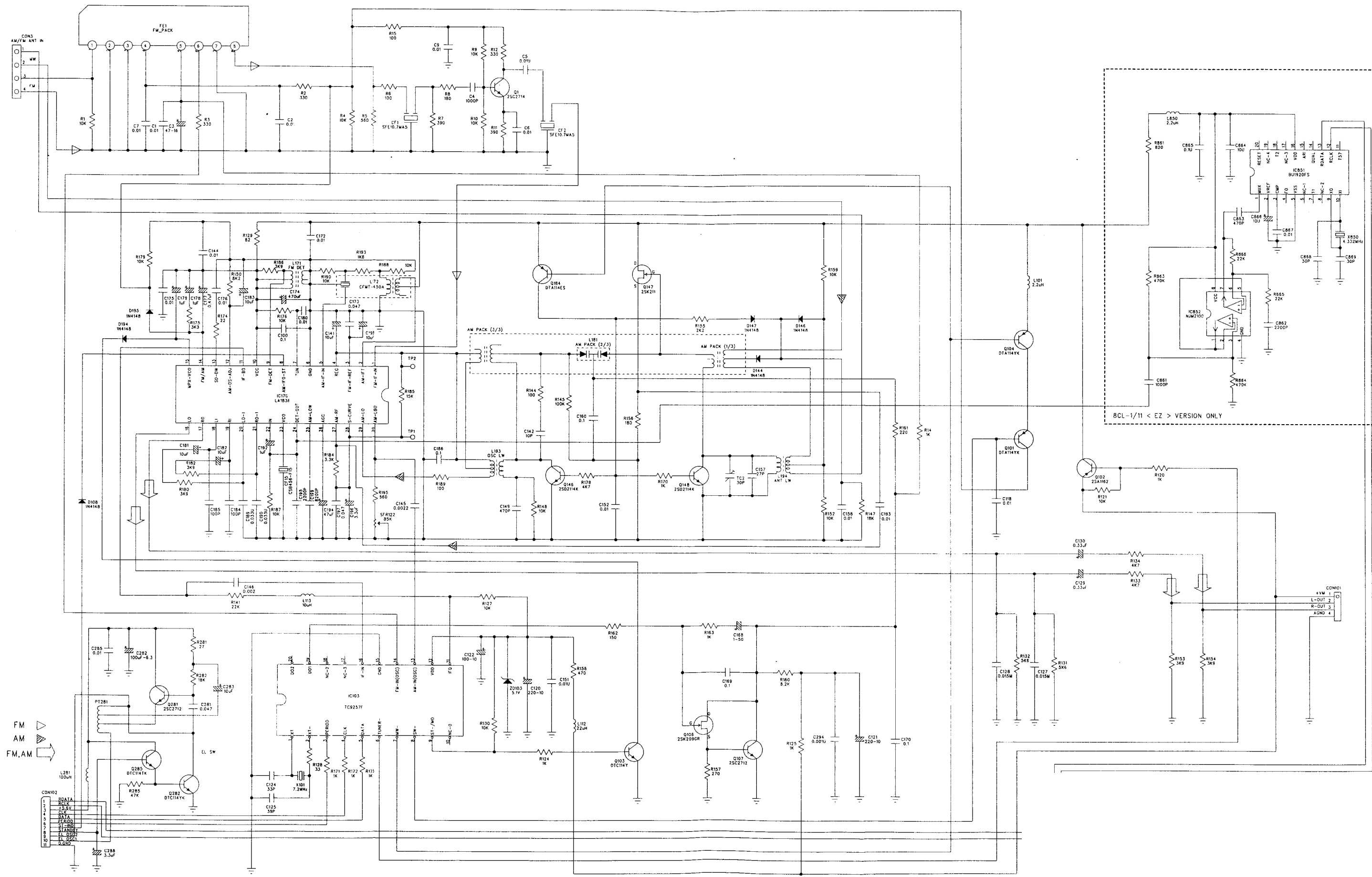
DTC114ES
DTC124ES

SCHEMATIC DIAGRAM-1

○=PULL-UP

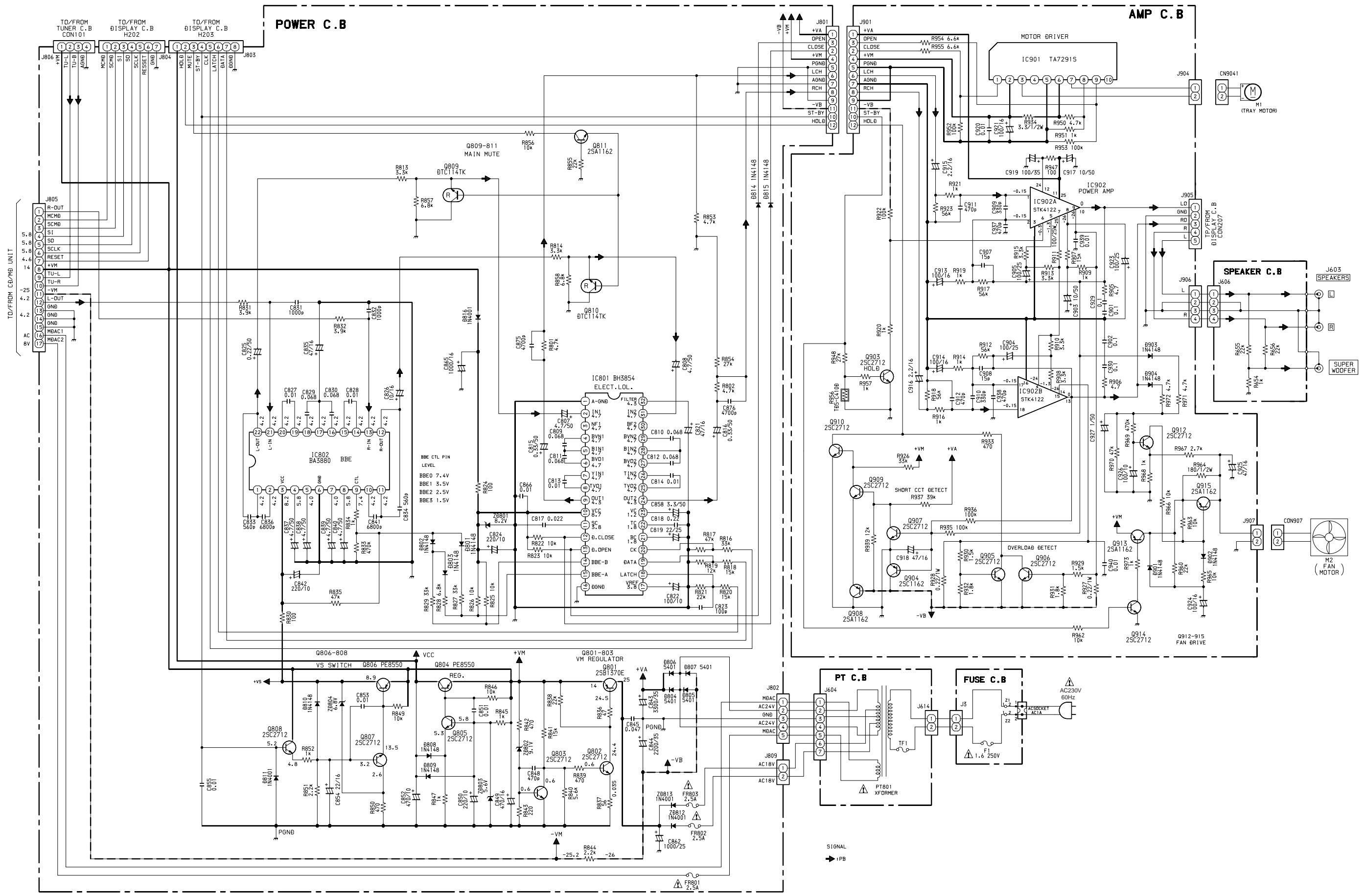


SCHEMATIC DIAGRAM-1



8CL-1/11 < EZ > VERSION ONLY

SCHEMATIC DIAGRAM-2 (AMP/POWER)



SCHEMATIC DIAGRAM-5 (FUNCTION/PANEL)

