aiwa SERVICE

HT-DV90

U (S) K(S) EZ(S)

SERVICE MANUAL

DVD STEREO SYSTEM

BASIC DVD/CD MECHANISM: MGD-F6103A

This Service Manual is the ”Revision Publishing” and replace “Simple Manual” (S/M Code No. 09-01B-359-3T1).

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REVISION DATA

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SPECIFICATIONS -1/2

[EZ, K Models]

Main unit HT-DV90

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	16.2 dBf
Antenna jack	75 ohms (unbalanced)

AM tuner section

Tuning range	531 kHz to 1629 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	700 µV/m
Antenna	Loop antenna

Amplifier section

Power output	**Front** Rated: 38 W + 38 W (6 ohms, T.H.D 1%, 1 kHz/DIN 45500) Reference: 50 W + 50 W (6 ohms, T.H.D. 10%, 1 kHz/DIN 45324) DIN MUSIC POWER: 50 W + 50 W **Rear (Surrond)** Rated: 38 W + 38 W (6 ohms, T.H.D 1%, 1 kHz/DIN 45500) Reference: 50 W + 50 W (6 ohms, T.H.D. 10%, 1 kHz/DIN 45324) DIN MUSIC POWER: 50 W + 50 W **Center** Rated: 38 W (6 ohms, T.H.D 1%, 1 kHz/DIN 45500) Reference: 50 W (6 ohms, T.H.D. 10%, 1 kHz/DIN 45324) DIN MUSIC POWER: 50 W **Subwoofer** Rated: 38 W (6 ohms, T.H.D 1%, 100 Hz/DIN 45500) Reference: 50 W (6 ohms, T.H.D. 10%, 100 Hz/DIN 45324) DIN MUSIC POWER: 50 W
Total harmonic distortion	0.2% (10 W, 1 kHz, 6 ohms, DIN AUDIO, Front)

Input/output

Input	**AUDIO VIDEO 1 IN, AUDIO VIDEO 2 IN:** 370 mV (47 kohms) **OPTICAL IN VIDEO 1, OPTICAL IN VIDEO 2:** accept linear PCM signals and Dolby Digital and DTS surround bitstream (32 kHz, 44.1 kHz, 48 kHz, and 96 kHz) **VIDEO VIDEO 1 IN, VIDEO VIDEO 2 IN:** 1 Vp-p (75 ohms, unbalanced)
Output	**AUDIO VIDEO 1 OUT:** 350 mV (47 kohms) **OPTICAL OUT** **VIDEO VIDEO 1 OUT, VIDEO OUT:** 1 Vp-p (75 ohms, unbalanced) **S-VIDEO OUT** Y output: 1 Vp-p (75 ohms, sync negative) C output: 0.286 Vp-p **FRONT SPEAKERS:** accept speakers of 6 ohms **SURROUND SPEAKERS:** accept speakers of 6 ohms **CENTER SPEAKER:** accept speakers of 6 ohms **SUB WOOFER** terminal: 6 ohms **SUB WOOFER** jack: 1 V **PHONES** (mini jack): accepts headphones of 32 phms or more

General

Power requirements	230 V AC, 50 Hz
Power consumption	85 W
Power consumption	4W in standby mode
Dimensions	430 (W) x 70 (H) x 311 (D) mm
Weight	4.3 kg

Disc player section

Colour system	PAL/MULTI/NTSC (Switchable)
Supported discs	**DVD video discs** 12 cm (single-sided sigle-layer, single-sided double-layer, double-sided-doubel layer) 8 cm (single-sided sigle-layer, single-sided double-layer, double-sided-doubel layer) **Compact discs (CD-DA, CD-R/RW, video CD)** 12 cm and 8 cm discs
Audio output characteristics	Frequency range: 20 Hz to 20 kHz
Operating conditions	5 °C to 35 °C (41 °F to 95 °F)

Spekaer system

Speakers	Front, Surround, Center: full range, 100 mm bass reflex type Subwoofer: 200 mm, bass reflex type
Impedance	6 ohms
Maximum input power	55 W (peak)
Dimensions (W x H x D)	SX-F90 (Front): 115 x 153 x 138 mm SX-R90 (Surround): 115 x 153 x 138 mm SX-C90 (Center): 153 x 115 x 138 mm TS-W90 (Subwoofer): 180 x 335 x 390 mm
Weight	SX-F90 (Front): 1 kg SX-R90 (Surround): 0.8 kg SX-C90 (Center): 1 kg TS-W90 (Subwoofer): 4.9 kg

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SPECIFICATIONS -2/2

[U Model]

Main unit HT-DV90

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	16.2 dBf
Antenna jack	75 ohms (unbalanced)

AM tuner section

Tuning range	531 kHz to 1629 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	700 µV/m
Antenna	Loop antenna

Amplifier section

Power output	**Front** Rated: 38 W + 38 W (40 Hz - 20 kHz, T.H.D less than 1%, 6 ohms) Reference: 50 W + 50 W (40 Hz - 20 kHz, T.H.D less than 10%, 6 ohms) Setting range: 1 FT to 30 FT (feet) **Rear (Surrond)** Rated: 38 W + 38 W (40 Hz - 20 kHz, T.H.D less than 1%, 6 ohms) Reference: 50 W + 50 W (40 Hz - 20 kHz, T.H.D less than 10%, 6 ohms) Setting range: 1 FT to 30 FT (feet) **Center** Rated: 38 W (40 Hz - 20 kHz, T.H.D less than 1%, 6 ohms) Reference: 50 W (40 Hz - 20 kHz, T.H.D less than 10%, 6 ohms) Setting range: 1 FT to 30 FT (feet) **Subwoofer** Rated: 38 W (40 Hz - 20 kHz, T.H.D less than 1%, 6 ohms) Reference: 50 W (40 Hz - 20 kHz, T.H.D less than 10%, 6 ohms) Setting range: 1 FT to 30 FT (feet)
Total harmonic distortion	0.2% (10 W, 1 kHz, 6 ohms, DIN AUDIO, Front)

Input/output

Input	**AUDIO VIDEO 1 IN, AUDIO VIDEO 2 IN:** 370 mV (47 kohms) **OPTICAL IN VIDEO 1, OPTICAL IN VIDEO 2:** accept linear PCM signals and Dolby Digital and DTS surround bitstream (32 kHz, 44.1 kHz, 48 kHz, and 96 kHz) **VIDEO VIDEO 1 IN, VIDEO VIDEO 2 IN:** 1 Vp-p (75 ohms, unbalanced)
Output	**AUDIO VIDEO 1 OUT:** 350 mV (47 kohms) **OPTICAL OUT** **VIDEO VIDEO 1 OUT, VIDEO OUT:** 1 Vp-p (75 ohms, unbalanced) **S-VIDEO OUT** Y output: 1 Vp-p (75 ohms, sync negative) C output: 0.286 Vp-p **FRONT SPEAKERS:** accept speakers of 6 ohms **SURROUND SPEAKERS:** accept speakers of 6 ohms **CENTER SPEAKER:** accept speakers of 6 ohms **SUB WOOFER** terminal: 6 ohms **SUB WOOFER** jack: 1 V **PHONES** (mini jack): accepts headphones of 32 phms or more

General

Power requirements	120 V AC, 60 Hz
Power consumption	85 W
Power consumption	4W in standby mode
Dimensions	430 (W) x 70 (H) x 311 (D) mm (17 x 2 $^{7}/_{8}$ x 12 $^{1}/_{4}$ in.)
Weight	4.3 kg (9 lbs 8 oz)

Disc player section

Colour system	NTSC/MULTI/PAL (Switchable)
Supported discs	**DVD video discs** 12 cm (single-sided sigle-layer, single-sided double-layer, double-sided-doubel layer) 8 cm (single-sided sigle-layer, single-sided double-layer, double-sided-doubel layer) **Compact discs (CD-DA, CD-R/RW)** 12 cm and 8 cm discs
Audio output characteristics	Frequency range: 20 Hz to 20 kHz
Operating conditions	5 °C to 35 °C (41 °F to 95 °F)

Spekaer system

Speakers	Front, Surround, Center: full range, 100 mm (4 in.), bass reflex type Subwoofer: 200 mm (7 $^{7}/_{8}$ in.), bass reflex type
Impedance	6 ohms
Maximum input power	55 W (peak)
Dimensions (W x H x D)	SX-F90 (Front): 115 x 153 x 138 mm (4 $^{5}/_{8}$ x 6 $^{1}/_{8}$ x 5 $^{1}/_{2}$ in.) SX-R90 (Surround): 115 x 153 x 138 mm (4 $^{5}/_{8}$ x 6 $^{1}/_{8}$ x 5 $^{1}/_{2}$ in.) SX-C90 (Center): 153 x 115 x 138 mm (6 $^{1}/_{8}$ x 4 $^{5}/_{8}$ x 5 $^{1}/_{2}$ in.) TS-W90 (Subwoofer): 180 x 335 x 390 mm (7 $^{1}/_{8}$ x 13 $^{1}/_{4}$ x 15 $^{3}/_{8}$ in.)
Weight	SX-F90 (Front): 1 kg (2 lbs 30 z) SX-R90 (Surround): 0.8 kg (1 lbs 120 z) SX-C90 (Center): 1 kg (2 lbs 30 z) TS-W90 (Subwoofer): 4.9 kg (10 lbs 130 z)

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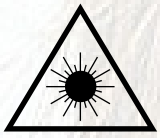
PROTECTION OF EYES FROM LASER BEAM DURING SERVICING -1/1

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

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

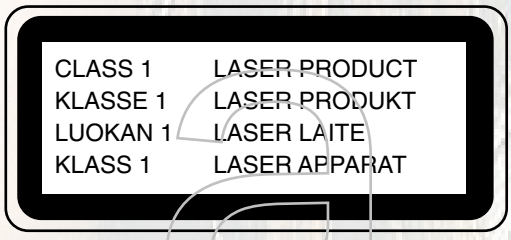
VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

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

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

ADVARSEL!
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer 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.



ACCESSORIES PARTS LIST -1/1

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
		O	AS1001	SQ-X1A-755-Z00	MANUAL,INSTRUCTION	a	.	.
		O	AS1001	SQ-X1A-750-Y00	MANUAL,INSTRUCTION	.	b	.
		O	AS1001	SQ-X1A-750-Z00	MANUAL,INSTRUCTION	.	b	.
		O	AS1001	SQ-X1A-765-Z00	MANUAL,INSTRUCTION	.	.	c
		O	AS1002	SA-RTB-AX2-UC0	RC UNIT,RC-BAR03	a	.	.
		O	AS1002	SA-RTB-AX2-EZ0	RC UNIT,RC-BAR01	.	b	c
		O	AS1003	SS-A1A-020-Z00	AM LOOP ANT	a	b	c
		O	AS1004	SS-A1A-019-Z00	FM 1 POL ANT(UL)	a	.	.
		O	AS1004	SS-A1A-018-Z00	FM 1 POLE ANT(EZ)	.	b	c
		O	AS1005	SJ-S4M-023-Z00	CORD,PIN (1P)YELLOW(1.5M)	a	b	c
		O	AS1006	SJ-S3L-004-Z00	ADAPTOR,UK (240V)	.	.	c
		O	AS1007	SW-X1A-030-000	CABLE SPEAKER,5M (SUB)	a	b	c
		O	AS1008	SW-X1A-029-000	CABLE SPEAKER,3M (CENTER)	a	b	c
		O	AS1009	SW-X1A-027-000	CABLE SPEAKER,4M (FRONT)	a	b	c
		O	AS1010	SW-X1A-028-000	CABLE SPEAKER,8M (REAR)	a	b	c

ELECTRICAL PARTS LIST - 1/17

! = ⚠ SAFTY PARTS
C = Components marked
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However, please note that not all components will be available as spare parts for after-sales service.
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Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
DVD MAIN		O	C 101	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 102	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 103	SC-EC0-JRV-210	C-CAP,E 100U-6.3	a	b	c
DVD MAIN		O	C 105	SC-EC0-JRV-210	C-CAP,E 100U-6.3	a	b	c
DVD MAIN		O	C 111	SC-EC0-JRV-210	C-CAP,E 100U-6.3	a	b	c
DVD MAIN		O	C 112	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 114	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 116	SC-EC0-JRV-247	C-CAP,E 47U-6.3	a	b	c
DVD MAIN		O	C 117	SC-US1-H27-0JA	C-CAP,27P-50 J	a	b	c
DVD MAIN		O	C 118	SC-US1-H27-0JA	C-CAP,27P-50 J	a	b	c
DVD MAIN		O	C 120	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 121	SC-EC0-JSE-331	C-CAP,E 330U-6.3	a	b	c
DVD MAIN		O	C 123	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 124	SC-EC0-JRV-210	C-CAP,E 100U-6.3	a	b	c
DVD MAIN		O	C 142	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 144	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 146	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 150	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 152	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 154	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
DVD MAIN		O	C 155	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 156	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 158	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 159	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 160	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 162	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 163	SC-US1-H15-1JA	C-CAP,150P-50 J	a	b	c
DVD MAIN		O	C 164	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 165	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 166	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 168	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 169	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 171	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 173	SC-EC0-JRV-210	C-CAP,E 100U-6.3	a	b	c
DVD MAIN		O	C 178	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 179	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 186	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 188	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 190	SC-EC0-JRV-247	C-CAP,E 47U-6.3	a	b	c
DVD MAIN		O	C 191	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
DVD MAIN		O	C 192	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 285	SC-EC0-JSE-331	C-CAP,E 330U-6.3	a	b	c
DVD MAIN		O	C 286	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	C 287	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
DVD MAIN		O	CN 010	SJ-P17-GA1-17Z	WAFER,CARD CABLE GF102-17S-TS	a	b	c
DVD MAIN		O	CN 012	SJ-P40-GB8-0ZP	40P HEADER (ANGLE TYPE)2110DR	a	b	c
DVD MAIN		O	FFC001	SW-ZHT-S50-00B	CABLE,ATAPI(FLATE,40P)	a	b	c
DVD MAIN		S	IC 001	SV-IES-431-8F0	IC,ES4318F	a	b	c
DVD MAIN		S	IC 003	SV-IHY-29F-400	IC,HY29F400BT90	a	b	c
DVD MAIN		S	IC 007	SV-I74-VHC-04M	IC,74VHC04M	a	b	c
DVD MAIN		S	IC 008	SV-IRC-111-7ST	IC,RC1117ST	a	b	c
DVD MAIN		S	IC 009	SV-IRC-111-7ST	IC,RC1117ST	a	b	c
DVD MAIN		S	IC 010	SV-IHY-57V-161	IC,HY57V161610DTC8	a	b	c
DVD MAIN		S	IC 011	SV-IHY-57V-161	IC,HY57V161610DTC8	a	b	c
DVD MAIN		S	IC 013	SV-IBR-24C-16F	IC,2K*8 SOP8	a	b	c
DVD MAIN		S	IC 014	SV-ICS-495-500	IC,CS4955	a	b	c
DVD MAIN		O	L 101	SL-Z9Z-005-Z00	FERRITE CORE,6*10(A) + COIL	a	b	c
DVD MAIN		O	L 102	SL-Z9Z-005-Z00	FERRITE CORE,6*10(A) + COIL	a	b	c
DVD MAIN		X	L 104	SR-J10-DJ0-R0T	C-RES,0-1/10W J	a	b	c
DVD MAIN		X	L 105	SR-J10-DJ0-R0T	C-RES,0-1/10W J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
DVD MAIN		X	R 101	SR-J10-DJ3-61T	C-RES,360-1/10W J	a	b	c
DVD MAIN		X	R 106	SR-J10-DJ0-R0T	C-RES,0-1/10W J	a	b	c
DVD MAIN		X	R 107	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
DVD MAIN		X	R 108	SR-J10-DJ1-05T	C-RES,1M-1/10W J	a	b	c
DVD MAIN		X	R 109	SR-J10-DJ1-21T	C-RES,120-1/10W J	a	b	c
DVD MAIN		X	R 110	SR-J10-DJ1-21T	C-RES,120-1/10W J	a	b	c
DVD MAIN		X	R 111	SR-J10-DJ1-21T	C-RES,120-1/10W J	a	b	c
DVD MAIN		X	R 112	SR-J10-DJ1-21T	C-RES,120-1/10W J	a	b	c
DVD MAIN		X	R 113	SR-J10-DJ2-21T	C-RES,220-1/10W J	a	b	c
DVD MAIN		X	R 114	SR-J10-DJ4-31T	C-RES,430-1/10W J	a	b	c
DVD MAIN		X	R 115	SR-J10-DJ2-21T	C-RES,220-1/10W J	a	b	c
DVD MAIN		X	R 116	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
DVD MAIN		X	R 117	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
DVD MAIN		X	R 118	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
DVD MAIN		X	R 119	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
DVD MAIN		X	R 120	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
DVD MAIN		X	R 121	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
DVD MAIN		X	R 123	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
DVD MAIN		X	R 125	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
DVD MAIN		X	R 126	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c

ELECTRICAL PARTS LIST - 2/17

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
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Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
DVD MAIN		X	R 127	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
DVD MAIN		X	R 128	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 129	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 130	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 131	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 132	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 133	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 134	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 135	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 136	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
DVD MAIN		X	R 137	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
DVD MAIN		X	R 138	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
DVD MAIN		X	R 139	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
DVD MAIN		X	R 140	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
DVD MAIN		X	R 141	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
DVD MAIN		X	R 142	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
DVD MAIN		X	R 143	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
DVD MAIN		X	R 144	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
DVD MAIN		X	R 145	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
DVD MAIN		X	R 146	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
DVD MAIN		X	R 147	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
DVD MAIN		X	R 148	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 149	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 150	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 151	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 152	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 153	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 154	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
DVD MAIN		X	R 155	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
DVD MAIN		X	R 156	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
DVD MAIN		X	R 157	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
DVD MAIN		X	R 158	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
DVD MAIN		X	R 159	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
DVD MAIN		X	R 160	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
DVD MAIN		X	R 162	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
DVD MAIN		X	R 163	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
DVD MAIN		X	R 164	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
DVD MAIN		X	R 165	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
DVD MAIN		X	R 166	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
DVD MAIN		X	R 167	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
DVD MAIN		X	R 168	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
DVD MAIN		X	R 169	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
DVD MAIN		X	R 170	SR-J10-DJ4-70T	C-RES,47-1/10W J	a	b	c
DVD MAIN		X	R 171	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 172	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 173	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 174	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 175	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 176	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 177	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 178	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 179	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 180	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 181	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 182	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 183	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 184	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 185	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 186	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 187	SR-J10-DJ4-70T	C-RES,47-1/10W J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
DVD MAIN		X	R 188	SR-J10-DJ4-70T	C-RES,47-1/10W J	a	b	c
DVD MAIN		X	R 189	SR-J10-DJ4-70T	C-RES,47-1/10W J	a	b	c
DVD MAIN		X	R 190	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 191	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 192	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 193	SR-J10-DJ4-70T	C-RES,47-1/10W J	a	b	c
DVD MAIN		X	R 194	SR-J10-DJ4-70T	C-RES,47-1/10W J	a	b	c
DVD MAIN		X	R 195	SR-J10-DJ4-70T	C-RES,47-1/10W J	a	b	c
DVD MAIN		X	R 196	SR-J10-DJ4-70T	C-RES,47-1/10W J	a	b	c
DVD MAIN		X	R 197	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
DVD MAIN		X	R 198	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
DVD MAIN		X	R 200	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
DVD MAIN		X	R 201	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 203	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
DVD MAIN		X	R 208	SR-J10-DJ0-R0T	C-RES,0-1/10W J	a	b	c
DVD MAIN		X	R 213	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
DVD MAIN		X	R 214	SR-J10-DJ0-R0T	C-RES,0-1/10W J	a	b	c
DVD MAIN		X	R 217	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
DVD MAIN		X	R 218	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
DVD MAIN		X	R 219	SR-J10-DJ1-52T	C-RES,1.5K-1/10W J	a	b	c

ELECTRICAL PARTS LIST - 3/17

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All components used on this model at the production line are shown in this service manual.
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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
DVD MAIN		X	R 220	SR-J10-DJ1-52T	C-RES,1.5K-1/10W J	a	b	c
DVD MAIN		X	R 222	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
DVD MAIN		X	R 223	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
DVD MAIN		X	R 225	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
DVD MAIN		X	P 226	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
DVD MAIN		X	R 228	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
DVD MAIN		X	R 229	SR-J10-DF4-02T	C-RES,4.0K-1/10W F	a	b	c
DVD MAIN		X	R 230	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 231	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
DVD MAIN		X	R 248	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
DVD MAIN		X	R 249	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
DVD MAIN		X	R 250	SR-J10-DJ3-31T	C-RES,330-1/10W J	a	b	c
DVD MAIN		X	R 251	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
DVD MAIN		X	R 252	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
DVD MAIN		X	R 260	SR-J10-DJ0-R0T	C-RES,0-1/10W J	a	b	c
DVD MAIN		X	R 261	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
DVD MAIN		X	R 262	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
DVD MAIN		X	R 263	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
DVD MAIN		X	R 264	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
DVD MAIN		X	R 267	SR-J10-DJ7-50T	C-RES,75-1/10W J	a	b	c
DVD MAIN		X	R 268	SR-J10-DJ8-20T	C-RES,82-1/10W J	a	b	c
DVD MAIN		X	R 269	SR-J10-DJ7-50T	C-RES,75-1/10W J	a	b	c
DVD MAIN		X	R 270	SR-J10-DJ7-50T	C-RES,75-1/10W J	a	b	c
DVD MAIN		X	R 271	SR-J10-DJ7-50T	C-RES,75-1/10W J	a	b	c
DVD MAIN		X	R 272	SR-J10-DJ7-50T	C-RES,75-1/10W J	a	b	c
DVD MAIN		X	P 273	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
DVD MAIN		O	X 101	SO-X27-000-E18	C-VIB,XTAL 27MHZ	a	b	c
FRONT		X	BN 073	SW-B1A-008-120	WIRE ASSY	a	b	c
FRONT		O	C 711	SC-US1-H10-3KC	CAP,CHIP	a	b	c
FRONT		O	C 712	SC-EA0-JH1-02T	CAP,E 1000U-6.3V	a	b	c
FRONT		O	C 713	SC-US1-H10-3KC	CAP,CHIP	a	b	c
FRONT		O	C 714	SC-ES0-HD1-040	CAP,GOLD 0.1-5.5	a	b	c
FRONT		O	C 715	SC-EA1-CKS-470	CAP,E 47U-16	a	b	c
FRONT		O	C 716	SC-EA1-CKS-470	CAP,E 47U-16	a	b	c
FRONT		O	C 717	SC-EA1-CKS-470	CAP,E 47U-16	a	b	c
FRONT		O	C 718	SC-US1-H10-3KC	CAP,CHIP	a	b	c
FRONT		O	C 719	SC-EA1-HKS-2R2	CAP,E 2.2U-50	a	b	c
FRONT		O	C 720	SC-US1-H22-0JA	C-CAP,22P-50 J	a	b	c
FRONT		O	C 721	SC-US1-H22-0JA	C-CAP,22P-50 J	a	b	c
FRONT		O	C 733	SC-EA1-CKS-470	CAP,E 47U-16	a	b	c
FRONT		O	C 734	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
FRONT		O	C 735	SC-US1-H10-3KC	CAP,CHIP	a	b	c
FRONT		O	C 736	SC-EA1-VKS-100	CAP,E 10U-35	a	b	c
FRONT		O	C 737	SC-US1-H10-3KC	CAP,CHIP	a	b	c
FRONT		O	C 738	SC-US1-H10-3KC	CAP,CHIP	a	b	c
FRONT		O	C 743	SC-EA1-HKS-1R0	CAP,E 1.0U-50	a	b	c
FRONT		O	C 746	SC-US1-H10-3KC	CAP,CHIP	a	b	c
FRONT		O	C 747	SC-US1-H10-3KC	CAP,CHIP	a	b	c
FRONT		O	C 751	SC-US1-H82-1JA	C-CAP,820P-50 J	a	b	c
FRONT		O	C 752	SC-US1-H82-1JA	C-CAP,820P-50 J	a	b	c
FRONT		O	C 753	SC-US1-H82-1JA	C-CAP,820P-50 J	a	b	c
FRONT		O	CN 071	SJ-P23-GA1-17Z	WAFER,CARD CABLE GF102-23S-TS	a	b	c
FRONT		O	CN 072	SJ-P17-GA1-17Z	WAFER,CARD CABLE GF102-17S-TS	a	b	c
FRONT		O	CN 074	SJ-P03-GA1-9ZM	WAFER	a	b	c
FRONT		S	D 711	SV-DRB-160-L60	DIODE,RB160L-60TE25	a	b	c
FRONT		S	D 712	SV-DRB-160-L60	DIODE,RB160L-60TE25	a	b	c
FRONT		S	D 713	SV-D1S-S13-3MT	DIODE,1SS133T-77	a	b	c
FRONT		S	D 714	SV-D1S-S13-3MT	DIODE,1SS133T-77	a	b	c
FRONT		S	D 715	SV-D1S-S13-3MT	DIODE,1SS133T-77	.	b	c
FRONT		S	D 716	SV-D1S-S13-3MT	DIODE,1SS133T-77	.	b	c
FRONT		S	D 717	SV-D1S-S13-3MT	DIODE,1SS133T-77	.	b	c
FRONT		S	FIP007	SF-LHN-A10-SM1	F.I.P,HNA-10SM17	a	b	c
FRONT		S	IC 071	SV-ITM-P87-PS7	IC,TMP87PS71F	a	b	c
FRONT		O	L 711	SL-Q02-C10-0KT	COIL,10UH K	a	b	c
FRONT		S	Q 711	SV-TKS-B81-1YT	TR,KSB811Y	a	b	c
FRONT		S	Q 712	SV-TKR-C10-2MT	TR,KRC102M	a	b	c
FRONT		S	Q 713	SV-TKR-C10-2MT	TR,KRC102M	a	b	c
FRONT		S	Q 714	SV-TKR-A10-2MT	TR,KRA102M	a	b	c
FRONT		S	Q 715	SV-TKR-C10-2MT	TR,KRC102M	a	b	c
FRONT		S	Q 735	SV-TKR-C10-2MT	TR,KRC102M	a	b	c
FRONT		S	Q 736	SV-TKR-C10-2MT	TR,KRC102M	a	b	c
FRONT		S	Q 743	SV-TKR-C10-2MT	TR,KRC102M	a	b	c
FRONT		X	R 711	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
FRONT		X	R 712	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
FRONT		X	R 713	SR-J10-DJ2-23T	C-RES,22K-1/10W J	a	b	c
FRONT		X	R 714	SR-J10-DJ2-23T	C-RES,22K-1/10W J	a	b	c
FRONT		X	R 715	SR-J10-DJ1-22T	C-RES,1.2K-1/10W J	a	b	c
FRONT		X	R 716	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FRONT		X	R 717	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FRONT		X	R 718	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c

ELECTRICAL PARTS LIST - 4/17

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
FRONT		X	R 719	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
FRONT		X	R 720	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FRONT		X	R 721	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
FRONT		X	R 722	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FRONT		X	R 723	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FRONT		X	R 724	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FRONT		X	R 725	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FRONT		X	R 726	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FRONT		X	R 729	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FRONT		X	R 730	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FRONT		X	R 731	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FRONT		X	R 732	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FRONT		X	R 733	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
FRONT		X	R 734	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
FRONT		X	R 737	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FRONT		X	R 738	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FRONT		X	R 739	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FRONT		X	R 740	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FRONT		X	R 741	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FRONT		X	R 742	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
FRONT		X	R 743	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FRONT		X	R 744	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
FRONT		X	R 745	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
FRONT		X	R 746	SR-J10-DJ2-72T	C-RES,2.7K-1/10W J	a	b	c
FRONT		X	R 747	SR-J10-DJ2-72T	C-RES,2.7K-1/10W J	a	b	c
FRONT		X	R 748	SR-J10-DJ1-22T	C-RES,1.2K-1/10W J	a	b	c
FRONT		X	R 749	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
FRONT		X	R 751	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FRONT		X	R 752	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FRONT		X	R 753	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FRONT		X	R 754	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
FRONT		X	R 755	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
FRONT		X	R 756	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
FRONT		X	R 757	SR-J10-DJ1-52T	C-RES,1.5K-1/10W J	a	b	c
FRONT		X	R 758	SR-J10-DJ1-52T	C-RES,1.5K-1/10W J	a	b	c
FRONT		X	R 759	SR-J10-DJ1-52T	C-RES,1.5K-1/10W J	a	b	c
FRONT		X	R 760	SR-J10-DJ1-82T	C-RES,1.8K-1/10W J	a	b	c
FRONT		X	R 762	SR-J10-DJ1-82T	C-RES,1.8K-1/10W J	a	b	c
FRONT		X	R 763	SR-J10-DJ2-72T	C-RES,2.7K-1/10W J	a	b	c
FRONT		X	R 765	SR-J10-DJ2-72T	C-RES,2.7K-1/10W J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
FRONT		X	R 766	SR-J10-DJ3-32T	C-RES,3.3K-1/5W J	a	b	c
FRONT		X	R 768	SR-J10-DJ3-32T	C-RES,3.3K-1/5W J	a	b	c
FRONT		X	R 769	SR-J10-DJ5-62T	C-RES,5.6K-1/10W J	a	b	c
FRONT		X	R 771	SR-J10-DJ5-62T	C-RES,5.6K-1/10W J	a	b	c
FRONT		O	RC 073	SR-VKS-M60-3TH	REMOCON SENSER,KSM-603TH2	a	b	c
FRONT		O	S 751	SS-T1A-012-ZT0	SW,TACT SKHV10910G	a	b	c
FRONT		O	S 752	SS-T1A-012-ZT0	SW,TACT SKHV10910G	a	b	c
FRONT		O	S 753	SS-T1A-012-ZT0	SW,TACT SKHV10910G	a	b	c
FRONT		O	S 754	SS-T1A-012-ZT0	SW,TACT SKHV10910G	a	b	c
FRONT		O	S 755	SS-T1A-012-ZT0	SW,TACT SKHV10910G	a	b	c
FRONT		O	S 756	SS-T1A-012-ZT0	SW,TACT SKHV10910G	a	b	c
FRONT		O	S 757	SS-T1A-012-ZT0	SW,TACT SKHV10910G	a	b	c
FRONT		O	S 759	SS-T1A-012-ZT0	SW,TACT SKHV10910G	a	b	c
FRONT		O	S 760	SS-T1A-012-ZT0	SW,TACT SKHV10910G	a	b	c
FRONT		O	S 762	SS-T1A-012-ZT0	SW,TACT SKHV10910G	a	b	c
FRONT		O	S 763	SS-T1A-012-ZT0	SW,TACT SKHV10910G	a	b	c
FRONT		O	S 765	SS-T1A-012-ZT0	SW,TACT SKHV10910G	a	b	c
FRONT		O	S 766	SS-T1A-012-ZT0	SW,TACT SKHV10910G	a	b	c
FRONT		O	S 768	SS-T1A-012-ZT0	SW,TACT SKHV10910G	a	b	c
FRONT		O	S 769	SS-T1A-012-ZT0	SW,TACT SKHV10910G	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
FRONT		O	VR 074	SS-R2A-018-Z00	VR,ENCODER	a	b	c
FRONT		O	X 721	SO-X08-000-E16	VIB,XTAL 8.0MHz	a	b	c
FUNCTION		O	C 107	SC-US1-H15-1JA	C-CAP,150P-50 J	a	b	c
FUNCTION		O	C 108	SC-US1-H15-1JA	C-CAP,150P-50 J	a	b	c
FUNCTION		O	C 109	SC-US1-H15-1JA	C-CAP,150P-50 J	a	b	c
FUNCTION		O	C 110	SC-US1-H15-1JA	C-CAP,150P-50 J	a	b	c
FUNCTION		O	C 111	SC-US1-H15-1JA	C-CAP,150P-50 J	a	b	c
FUNCTION		O	C 112	SC-US1-H15-1JA	C-CAP,150P-50 J	a	b	c
FUNCTION		O	C 115	SC-EA1-CH1-01T	CAP,E 100U-16	a	b	c
FUNCTION		O	C 116	SC-EA1-CH1-01T	CAP,E 100U-16	a	b	c
FUNCTION		O	C 117	SC-US1-H10-3KC	CAP,CHIP	a	b	c
FUNCTION		O	C 118	SC-US1-H10-3KC	CAP,CHIP	a	b	c
FUNCTION		O	C 119	SC-US1-H22-2KC	C-CAP,2200P-50 K	a	b	c
FUNCTION		O	C 120	SC-US1-H22-2KC	C-CAP,2200P-50 K	a	b	c
FUNCTION		O	C 121	SC-EA1-CH1-01T	CAP,E 100U-16	a	b	c
FUNCTION		O	C 122	SC-EA1-CH1-01T	CAP,E 100U-16	a	b	c
FUNCTION		O	C 123	SC-US1-H47-1JA	C-CAP,470P-50 J	a	b	c
FUNCTION		O	C 124	SC-US1-H47-1JA	C-CAP,470P-50 J	a	b	c
FUNCTION		O	C 125	SC-US1-H47-1JA	C-CAP,470P-50 J	a	b	c
FUNCTION		O	C 126	SC-US1-H10-3KC	CAP,CHIP	a	b	c

ELECTRICAL PARTS LIST - 5/17

! = ⚠ SAFTY PARTS
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All components used on this model at the production line are shown in this service manual.
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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
FUNCTION		O	C 127	SC-US1-H10-3KC	CAP,CHIP	a	b	c
FUNCTION		O	C 151	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
FUNCTION		O	C 152	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
FUNCTION		O	C 153	SC-EA1-AH4-71T	CAP,E 470U-10	a	b	c
FUNCTION		O	C 154	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
FUNCTION		O	C 155	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
FUNCTION		O	C 156	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
FUNCTION		O	C 157	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
FUNCTION		O	C 158	SC-EA1-AH4-71T	CAP,E 470U-10	a	b	c
FUNCTION		O	C 159	SC-US1-H22-1JA	C-CAP,220P-50 J	a	b	c
FUNCTION		O	C 160	SC-US1-H22-1JA	C-CAP,220P-50 J	a	b	c
FUNCTION		O	C 161	SC-US1-H22-1JA	C-CAP,220P-50 J	a	b	c
FUNCTION		O	C 162	SC-US1-H22-1JA	C-CAP,220P-50 J	a	b	c
FUNCTION		O	C 163	SC-EA1-AH4-71T	CAP,E 470U-10	a	b	c
FUNCTION		O	C 164	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
FUNCTION		O	C 165	SC-US1-H10-3KC	CAP,CHIP	a	b	c
FUNCTION		O	C 166	SC-US1-H10-3KC	CAP,CHIP	a	b	c
FUNCTION		O	C 167	SC-EA1-CH1-01T	CAP,E 100U-16	a	b	c
FUNCTION		O	C 168	SC-EA1-CH1-01T	CAP,E 100U-16	a	b	c
FUNCTION		O	C 169	SC-EA1-AH4-71T	CAP,E 470U-10	a	b	c
FUNCTION		O	C 170	SC-US1-H82-1JA	C-CAP,820P-50 J	a	b	c
FUNCTION		O	C 171	SC-US1-H22-1JA	C-CAP,220P-50 J	a	b	c
FUNCTION		O	C 172	SC-EA1-AH4-71T	CAP,E 470U-10	a	b	c
FUNCTION		O	C 174	SC-US1-H22-2KC	C-CAP,2200P-50 K	a	b	c
FUNCTION		O	C 181	SC-EA1-CH1-01T	CAP,E 100U-16	.	b	c
FUNCTION		O	C 182	SC-US1-H10-3KC	CAP,CHIP	.	b	c
FUNCTION		O	C 183	SC-US1-H33-0JA	C-CAP,33P-50 J	.	b	c
FUNCTION		O	C 184	SC-US1-H33-0JA	C-CAP,33P-50 J	.	b	c
FUNCTION		O	C 185	SC-US1-H22-2KC	C-CAP,2200P-50 K	.	b	c
FUNCTION		O	C 186	SC-US1-H22-2KC	C-CAP,2200P-50 K	.	b	c
FUNCTION		O	C 187	SC-US1-H56-1JA	C-CAP,560P-50 J	.	b	c
FUNCTION		O	C 188	SC-US1-H10-3KC	CAP,CHIP	.	b	c
FUNCTION		O	C 189	SC-EA1-HH2-R2T	CAP,E 2.2U-50	.	b	c
FUNCTION		O	CN 011	SJ-P15-GA1-15Z	WAFER,CARD CABLE GF120-15S-TS	a	b	c
FUNCTION		O	CN 012	SJ-P15-GA1-17Z	WAFER,CARD CABLE 15P 1M/M S/T	a	b	c
FUNCTION		O	CN 013	SJ-P15-GA1-17Z	WAFER,CARD CABLE 15P 1M/M S/T	a	b	c
FUNCTION		S	D 167	SV-DMT-ZJ6-2B0	ZENER,6.2V 1/4W B	a	b	c
FUNCTION		S	D 168	SV-DMT-ZJ6-2B0	ZENER,6.2V 1/4W B	a	b	c
FUNCTION		S	D 169	SV-D1S-S13-3MT	DIODE,1SS133T-77	a	b	c
FUNCTION		S	D 170	SV-D1S-S13-3MT	DIODE,1SS133T-77	a	b	c
FUNCTION		O	FFC011	SW-C1C-4A1-5B0	CABLE,CARD	a	b	c
FUNCTION		S	IC 011	SV-ITC-916-4AF	IC,TC9164AF	a	b	c
FUNCTION		S	IC 012	SV-INJ-M20-68M	IC,NJM2068M-TE1	a	b	c
FUNCTION		S	IC 016	SV-INJ-M22-79M	IC,NJM2279M-TE1	a	b	c
FUNCTION		S	IC 018	SV-ISA-A65-79T	IC,SAA6579T/V1	.	b	c
FUNCTION		O	JK 011	SJ-J4L-002-Z00	JACK,9P	a	b	c
FUNCTION		O	JK 014	SJ-J9N-004-Z00	JACK,(S-VIDEO+VHS)	a	b	c
FUNCTION		O	L 159	SL-Q02-C1R-8KT	COIL,1.8UH K	a	b	c
FUNCTION		O	L 160	SL-Q02-C1R-8KT	COIL,1.8UH K	a	b	c
FUNCTION		O	L 171	SL-Q02-C1R-8KT	COIL,1.8UH K	a	b	c
FUNCTION		O	L 172	SL-Q02-C10-0KT	COIL,10UH K	a	b	c
FUNCTION		X	R 101	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
FUNCTION		X	R 102	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
FUNCTION		X	R 103	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
FUNCTION		X	R 104	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
FUNCTION		X	R 105	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
FUNCTION		X	R 106	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
FUNCTION		X	R 107	SR-J10-DJ1-04T	C-RES,100K-1/10W J	a	b	c
FUNCTION		X	R 108	SR-J10-DJ1-04T	C-RES,100K-1/10W J	a	b	c
FUNCTION		X	R 109	SR-J10-DJ1-04T	C-RES,100K-1/10W J	a	b	c
FUNCTION		X	R 110	SR-J10-DJ1-04T	C-RES,100K-1/10W J	a	b	c
FUNCTION		X	R 111	SR-J10-DJ1-04T	C-RES,100K-1/10W J	a	b	c
FUNCTION		X	R 112	SR-J10-DJ1-04T	C-RES,100K-1/10W J	a	b	c
FUNCTION		X	R 113	SR-J10-DJ1-04T	C-RES,100K-1/10W J	a	b	c
FUNCTION		X	R 114	SR-J10-DJ1-04T	C-RES,100K-1/10W J	a	b	c
FUNCTION		X	R 115	SR-J10-DJ1-04T	C-RES,100K-1/10W J	a	b	c
FUNCTION		X	R 116	SR-J10-DJ1-04T	C-RES,100K-1/10W J	a	b	c
FUNCTION		X	R 117	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
FUNCTION		X	R 118	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
FUNCTION		X	R 119	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
FUNCTION		X	R 120	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
FUNCTION		X	R 121	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
FUNCTION		X	R 122	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
FUNCTION		X	R 123	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
FUNCTION		X	R 124	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
FUNCTION		X	R 125	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
FUNCTION		X	R 126	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
FUNCTION		X	R 127	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
FUNCTION		X	R 135	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
FUNCTION		X	R 136	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c

ELECTRICAL PARTS LIST - 6/17

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
FUNCTION		X	R 151	SR-J10-DJ7-50T	C-RES,75-1/10W J	a	b	c
FUNCTION		X	R 153	SR-J10-DJ6-80T	C-RES,68-1/10W J	a	b	c
FUNCTION		X	R 154	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FUNCTION		X	R 155	SR-J10-DJ7-50T	C-RES,75-1/10W J	a	b	c
FUNCTION		X	P 159	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FUNCTION		X	R 160	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FUNCTION		X	R 161	SR-J10-DJ8-20T	C-RES,82-1/10W J	a	b	c
FUNCTION		X	R 162	SR-J10-DJ8-20T	C-RES,82-1/10W J	a	b	c
FUNCTION		X	R 163	SR-J10-DJ6-80T	C-RES,68-1/10W J	a	b	c
FUNCTION		X	R 164	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FUNCTION		X	R 165	SR-J10-DJ8-20T	C-RES,82-1/10W J	a	b	c
FUNCTION		X	R 166	SR-J10-DJ8-20T	C-RES,82-1/10W J	a	b	c
FUNCTION		X	R 167	SR-J10-DJ8-20T	C-RES,82-1/10W J	a	b	c
FUNCTION		X	R 168	SR-J10-DJ8-20T	C-RES,82-1/10W J	a	b	c
FUNCTION		X	R 169	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
FUNCTION		X	R 170	SR-J10-DJ1-R0T	C-RES,1.0-1/10W J	a	b	c
FUNCTION		X	R 171	SR-J10-DJ7-50T	C-RES,75-1/10W J	a	b	c
FUNCTION		X	R 172	SR-D25-TJ4-R7T	C-RES,4.7-1/4W J	a	b	c
FUNCTION		X	R 173	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
FUNCTION		X	R 174	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
FUNCTION		X	R 175	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
FUNCTION		X	R 176	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
FUNCTION		X	R 177	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
FUNCTION		X	R 178	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
FUNCTION		X	R 179	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
FUNCTION		X	P 181	SR-J10-DJ1-22T	C-RES,1.2K-1/10W J	.	b	c
FUNCTION		X	R 182	SR-J10-DJ5-62T	C-RES,5.6K-1/10W J	.	b	c
FUNCTION		X	R 184	SR-J10-DJ4-71T	C-RES,470-1/10W J	.	b	c
FUNCTION		X	R 185	SR-J10-DJ1-03T	C-RES,10K-1/10W J	.	b	c
FUNCTION		X	R 186	SR-J10-DJ1-03T	C-RES,10K-1/10W J	.	b	c
FUNCTION		X	R 188	SR-J10-DJ1-01T	C-RES,100-1/10W J	.	b	c
FUNCTION		O	X 181	SO-X04-332-A20	VIB,XTAL 4.332KHz	.	b	c
KEY1		O	C 782	SC-EA1-HKS-1R0	CAP,E 1.0U-50	a	b	c
KEY1		O	C 783	SC-US1-H82-1JA	C-CAP,820P-50 J	a	b	c
KEY1		O	C 784	SC-US1-H82-1JA	C-CAP,820P-50 J	a	b	c
KEY1		O	D 781	SV-DSP-R39-MVW	LED,2COLORSPR-39MVW3	a	b	c
KEY1		O	JK 078	SJ-J2D-003-Z00	JACK,HEADPHONE	a	b	c
KEY1		X	JW 071	SW-EH2-020-90P	WIRE ASSY (1P,BLK)	a	b	c
KEY1		X	R 781	SR-J10-DJ2-71T	C-RES,270-1/10W J	a	b	c
KEY1		X	R 782	SR-J10-DJ3-31T	C-RES,330-1/10W J	a	b	c
KEY1		X	R 783	SR-J10-DJ3-31T	C-RES,330-1/10W J	a	b	c
KEY1		O	S 781	SS-T1A-012-ZT0	SW,TACT SKHV10910G	a	b	c
KEY2		X	BN 074	SW-B1A-003-080	WIRE ASSY	a	b	c
KEY2		X	R 761	SR-J10-DJ1-82T	C-RES,1.8K-1/10W J	a	b	c
KEY2		X	R 764	SR-J10-DJ2-72T	C-RES,2.7K-1/10W J	a	b	c
KEY2		X	R 767	SR-J10-DJ3-32T	C-RES,3.3K-1/5W J	a	b	c
KEY2		X	R 770	SR-J10-DJ5-62T	C-RES,5.6K-1/10W J	a	b	c
KEY2		O	SW 075	SS-T6F-017-Z00	SW,TACT JOG	a	b	c
MAIN		X	BN 091	SW-B1E-006-240	WIRE ASSY	a	b	c
MAIN		X	BN 092	SW-B1C-009-150	WIRE ASSY	a	b	c
MAIN		X	BN 093	SW-B1C-006-150	WIRE ASSY	a	b	c
MAIN		O	C 201	SC-US1-H33-0JA	C-CAP,33P-50 J	a	b	c
MAIN		O	C 202	SC-US1-H33-0JA	C-CAP,33P-50 J	a	b	c
MAIN		O	C 203	SC-EA1-CH1-01T	CAP,E 100U-16	a	b	c
MAIN		O	C 204	SC-EA1-CH1-01T	CAP,E 100U-16	a	b	c
MAIN		O	C 205	SC-EA1-CH1-01T	CAP,E 100U-16	a	b	c
MAIN		O	C 206	SC-US1-H33-0JA	C-CAP,33P-50 J	a	b	c
MAIN		O	C 207	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 208	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 209	SC-EA1-CH1-01T	CAP,E 100U-16	a	b	c
MAIN		O	C 210	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 211	SC-US1-H33-0JA	C-CAP,33P-50 J	a	b	c
MAIN		O	C 212	SC-US1-H33-0JA	C-CAP,33P-50 J	a	b	c
MAIN		O	C 213	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
MAIN		O	C 214	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 215	SC-EA1-CH1-01T	CAP,E 100U-16	a	b	c
MAIN		O	C 216	SC-EA1-AH4-71T	CAP,E 470U-10	a	b	c
MAIN		O	C 221	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
MAIN		O	C 222	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
MAIN		O	C 223	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 224	SC-EA1-AH4-71T	CAP,E 470U-10	a	b	c
MAIN		O	C 225	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
MAIN		O	C 226	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
MAIN		O	C 235	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
MAIN		O	C 236	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
MAIN		O	C 239	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 241	SC-EA1-HH2-R2T	CAP,E 2.2U-50	a	b	c
MAIN		O	C 242	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 243	SC-EA1-AH2-21T	CAP,E 220U-10	a	b	c
MAIN		O	C 244	SC-QI1-H10-3JZ	CAP,M 0.01U-50 J	a	b	c

ELECTRICAL PARTS LIST - 7/17

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		O	C 245	SC-US1-H47-1JA	C-CAP,470P-50 J	a	b	c
MAIN		O	C 246	SC-US1-H47-1JA	C-CAP,470P-50 J	a	b	c
MAIN		O	C 255	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 257	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 261	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 262	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 263	SC-EA1-CH1-01T	CAP,E 100U-16	a	b	c
MAIN		O	C 264	SC-EA1-AH4-71T	CAP,E 470U-10	a	b	c
MAIN		O	C 265	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 266	SC-EA1-CH1-01T	CAP,E 100U-16	a	b	c
MAIN		O	C 267	SC-EA1-AH4-71T	CAP,E 470U-10	a	b	c
MAIN		O	C 268	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 269	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 270	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 271	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 272	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 273	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
MAIN		O	C 274	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
MAIN		O	C 275	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 276	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 277	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 278	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 279	SC-QI1-H22-2JZ	CAP,M 2.2U-50 J	a	b	c
MAIN		O	C 280	SC-QI1-H22-2JZ	CAP,M 2.2U-50 J	a	b	c
MAIN		O	C 281	SC-EA1-AH2-21T	CAP,E 220U-10	a	b	c
MAIN		O	C 282	SC-EA1-CH1-01T	CAP,E 100U-16	a	b	c
MAIN		O	C 283	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 284	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 287	SC-US1-H33-0JA	C-CAP,33P-50 J	a	b	c
MAIN		O	C 288	SC-US1-H33-0JA	C-CAP,33P-50 J	a	b	c
MAIN		O	C 289	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
MAIN		O	C 295	SC-EA1-AH2-21T	CAP,E 220U-10	a	b	c
MAIN		O	C 296	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 301	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 302	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 303	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 304	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 307	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 308	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 309	SC-US1-H47-1JA	C-CAP,470P-50 J	a	b	c
MAIN		O	C 310	SC-US1-H47-1JA	C-CAP,470P-50 J	a	b	c
MAIN		O	C 311	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 312	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 313	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 315	SE-A1V-H10-0TS	CAP,E 10U-35	a	b	c
MAIN		O	C 316	SE-A1V-H10-0TS	CAP,E 10U-35	a	b	c
MAIN		O	C 317	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 318	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 319	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 320	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 321	SC-UP2-A10-4KC	CHIP CAP	a	b	c
MAIN		O	C 322	SC-UP2-A10-4KC	CHIP CAP	a	b	c
MAIN	!	O	C 323	SC-EA1-VH4-71E	CAP,E 470U-35	a	b	c
MAIN	!	O	C 324	SC-EA1-VH4-71E	CAP,E 470U-35	a	b	c
MAIN		O	C 325	SC-EA1-VH1-01T	CAP,E 100U-35	a	b	c
MAIN		O	C 326	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 327	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 329	SC-QI1-H10-4JZ	CAP,M 0.1U-50 J	a	b	c
MAIN		O	C 330	SC-QI1-H10-4JZ	CAP,M 0.1U-50 J	a	b	c
MAIN		O	C 331	SC-EA1-EH4-70T	CAP,E 47U-25	a	b	c
MAIN		O	C 332	SC-EA1-EH4-70T	CAP,E 47U-25	a	b	c
MAIN		O	C 333	SC-US1-H56-1JA	C-CAP,560P-50 J	a	b	c
MAIN		O	C 334	SC-US1-H56-1JA	C-CAP,560P-50 J	a	b	c
MAIN		O	C 335	SC-FE1-J22-4JB	CAP,FILM(POLYESTER) 0.22U-63	a	b	c
MAIN		O	C 336	SC-FE1-J22-4JB	CAP,FILM(POLYESTER) 0.22U-63	a	b	c
MAIN		O	C 337	SC-FE1-J10-4JB	CAP,FILM(POLYESTER) 0.1U-63	a	b	c
MAIN		O	C 338	SC-FE1-J10-4JB	CAP,FILM(POLYESTER) 0.1U-63	a	b	c
MAIN		O	C 339	SC-US1-H10-2KC	C-CAP,1000P-50 K	a	b	c
MAIN		O	C 340	SC-US1-H10-2KC	C-CAP,1000P-50 K	a	b	c
MAIN		O	C 341	SC-EA1-EH4-70T	CAP,E 47U-25	a	b	c
MAIN		O	C 342	SC-EA1-EH4-70T	CAP,E 47U-25	a	b	c
MAIN		O	C 343	SC-US1-H47-3ZF	C-CAP,0.047U-50 Z	a	b	c
MAIN		O	C 344	SC-US1-H47-3ZF	C-CAP,0.047U-50 Z	a	b	c
MAIN		O	C 361	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 362	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 363	SC-QI1-H18-2JZ	CAP,M 1800P-50 J	a	b	c
MAIN		O	C 364	SC-QI1-H18-2JZ	CAP,M 1800P-50 J	a	b	c
MAIN		O	C 365	SC-US1-H22-1JA	C-CAP,220P-50 J	a	b	c
MAIN		O	C 366	SC-US1-H22-1JA	C-CAP,220P-50 J	a	b	c
MAIN		O	C 367	SC-US1-H22-2KC	C-CAP,2200P-50 K	a	b	c

ELECTRICAL PARTS LIST - 8/17

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All components used on this model at the production line are shown in this service manual.
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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		O	C 368	SC-US1-H22-2KC	C-CAP,2200P-50 K	a	b	c
MAIN		O	C 371	SC-QI1-H18-2JZ	CAP,M 1800P-50 J	a	b	c
MAIN		O	C 372	SC-QI1-H18-2JZ	CAP,M 1800P-50 J	a	b	c
MAIN		O	C 375	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 376	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 377	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 378	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 381	SC-US1-H15-1JA	C-CAP,150P-50 J	a	b	c
MAIN		O	C 384	SC-US1-H15-1JA	C-CAP,150P-50 J	a	b	c
MAIN		O	C 387	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 388	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 390	SC-EA1-CH1-01T	CAP,E 100U-16	a	b	c
MAIN		O	C 391	SC-EA1-CH1-01T	CAP,E 100U-16	a	b	c
MAIN		O	C 392	SC-EA1-CH1-01T	CAP,E 100U-16	a	b	c
MAIN		O	C 393	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 394	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 395	SC-QI1-H82-2JZ	CAP,M 8200P-50 J	a	b	c
MAIN		O	C 396	SC-QI1-H82-2JZ	CAP,M 8200P-50 J	a	b	c
MAIN		O	C 397	SC-QI1-H15-3JZ	CAP,M 0.015U-50 J	a	b	c
MAIN		O	C 398	SC-QI1-H15-3JZ	CAP,M 0.015U-50 J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		O	C 399	SC-FE1-J33-4JB	CAP,FILM 0.33U-63 J	a	b	c
MAIN		O	C 400	SC-FE1-J33-4JB	CAP,FILM 0.33U-63 J	a	b	c
MAIN		O	C 401	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 402	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 405	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 406	SC-US1-H10-2KC	C-CAP,1000P-50 K	a	b	c
MAIN		O	C 407	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 408	SC-EA1-HH2-R2T	CAP,E 2.2U-50	a	b	c
MAIN		O	C 409	SC-US1-H47-1JA	C-CAP,470P-50 J	a	b	c
MAIN		O	C 410	SC-US1-H10-2KC	C-CAP,1000P-50 K	a	b	c
MAIN		O	C 411	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 412	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 415	SE-A1V-H10-0TS	CAP,E 10U-35	a	b	c
MAIN		O	C 416	SE-A1V-H10-0TS	CAP,E 10U-35	a	b	c
MAIN		O	C 417	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 418	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 419	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 420	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 421	SC-UP2-A10-4KC	CHIP CAP	a	b	c
MAIN		O	C 422	SC-UP2-A10-4KC	CHIP CAP	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN	!	O	C 423	SC-EA1-VH4-71E	CAP,E 470U-35	a	b	c
MAIN	!	O	C 424	SC-EA1-VH4-71E	CAP,E 470U-35	a	b	c
MAIN		O	C 425	SC-EA1-VH1-01T	CAP,E 100U-35	a	b	c
MAIN		O	C 426	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 427	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 428	SC-EA1-EH4-70T	CAP,E 47U-25	a	b	c
MAIN		O	C 429	SC-QI1-H10-4JZ	CAP,M 0.1U-50 J	a	b	c
MAIN		O	C 430	SC-QI1-H10-4JZ	CAP,M 0.1U-50 J	a	b	c
MAIN		O	C 431	SC-EA1-EH4-70T	CAP,E 47U-25	a	b	c
MAIN		O	C 432	SC-EA1-EH4-70T	CAP,E 47U-25	a	b	c
MAIN		O	C 433	SC-US1-H56-1JA	C-CAP,560P-50 J	a	b	c
MAIN		O	C 434	SC-US1-H56-1JA	C-CAP,560P-50 J	a	b	c
MAIN		O	C 435	SC-FE1-J22-4JB	CAP,FILM(POLYESTER) 0.22U-63	a	b	c
MAIN		O	C 436	SC-FE1-J22-4JB	CAP,FILM(POLYESTER) 0.22U-63	a	b	c
MAIN		O	C 437	SC-FE1-J10-4JB	CAP,FILM(POLYESTER) 0.1U-63	a	b	c
MAIN		O	C 438	SC-FE1-J10-4JB	CAP,FILM(POLYESTER) 0.1U-63	a	b	c
MAIN		O	C 439	SC-US1-H10-2KC	C-CAP,1000P-50 K	a	b	c
MAIN		O	C 440	SC-US1-H10-2KC	C-CAP,1000P-50 K	a	b	c
MAIN		O	C 443	SC-US1-H47-3ZF	C-CAP,0.047U-50 Z	a	b	c
MAIN		O	C 444	SC-US1-H47-3ZF	C-CAP,0.047U-50 Z	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		O	C 461	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 462	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 463	SC-QI1-H18-2JZ	CAP,M 1800P-50 J	a	b	c
MAIN		O	C 464	SC-QI1-H18-2JZ	CAP,M 1800P-50 J	a	b	c
MAIN		O	C 465	SC-US1-H22-1JA	C-CAP,220P-50 J	a	b	c
MAIN		O	C 466	SC-US1-H10-2KC	C-CAP,1000P-50 K	a	b	c
MAIN		O	C 467	SC-US1-H22-2KC	C-CAP,2200P-50 K	a	b	c
MAIN		O	C 468	SC-US1-H22-2KC	C-CAP,2200P-50 K	a	b	c
MAIN		O	C 471	SC-QI1-H18-2JZ	CAP,M 1800P-50 J	a	b	c
MAIN		O	C 472	SC-QI1-H18-2JZ	CAP,M 1800P-50 J	a	b	c
MAIN		O	C 473	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 474	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 475	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 476	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 483	SC-US1-H47-1JA	C-CAP,470P-50 J	a	b	c
MAIN		O	C 487	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 488	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 493	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 494	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 495	SC-EA1-EH4-70T	CAP,E 47U-25	a	b	c

ELECTRICAL PARTS LIST - 9/17

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		O	C 496	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 497	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 498	SC-EA1-AH2-21T	CAP,E 220U-10	a	b	c
MAIN		O	C 499	SC-EA1-EH4-70T	CAP,E 47U-25	a	b	c
MAIN		O	C 500	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 501	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 502	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 505	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 506	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 507	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 508	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 509	SC-US1-H47-1JA	C-CAP,470P-50 J	a	b	c
MAIN		O	C 510	SC-US1-H47-1JA	C-CAP,470P-50 J	a	b	c
MAIN		O	C 511	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 512	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 515	SE-A1V-H10-0TS	CAP,E 10U-35	a	b	c
MAIN		O	C 516	SE-A1V-H10-0TS	CAP,E 10U-35	a	b	c
MAIN		O	C 517	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 518	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 519	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 520	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 521	SC-UP2-A10-4KC	CHIP CAP	a	b	c
MAIN		O	C 522	SC-UP2-A10-4KC	CHIP CAP	a	b	c
MAIN		O	C 523	SC-EA1-VH4-71E	CAP,E 470U-35	a	b	c
MAIN		O	C 524	SC-EA1-VH4-71E	CAP,E 470U-35	a	b	c
MAIN		O	C 525	SC-EA1-VH1-01T	CAP,E 100U-35	a	b	c
MAIN		O	C 526	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 527	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 529	SC-QI1-H10-4JZ	CAP,M 0.1U-50 J	a	b	c
MAIN		O	C 530	SC-QI1-H10-4JZ	CAP,M 0.1U-50 J	a	b	c
MAIN		O	C 531	SC-EA1-EH4-70T	CAP,E 47U-25	a	b	c
MAIN		O	C 532	SC-EA1-EH4-70T	CAP,E 47U-25	a	b	c
MAIN		O	C 533	SC-US1-H56-1JA	C-CAP,560P-50 J	a	b	c
MAIN		O	C 534	SC-US1-H56-1JA	C-CAP,560P-50 J	a	b	c
MAIN		O	C 535	SC-FE1-J22-4JB	CAP,FILM(POLYESTER) 0.22U-63	a	b	c
MAIN		O	C 536	SC-FE1-J22-4JB	CAP,FILM(POLYESTER) 0.22U-63	a	b	c
MAIN		O	C 537	SC-FE1-J10-4JB	CAP,FILM(POLYESTER) 0.1U-63	a	b	c
MAIN		O	C 538	SC-FE1-J10-4JB	CAP,FILM(POLYESTER) 0.1U-63	a	b	c
MAIN		O	C 539	SC-US1-H10-2KC	C-CAP,1000P-50 K	a	b	c
MAIN		O	C 540	SC-US1-H10-2KC	C-CAP,1000P-50 K	a	b	c
MAIN		O	C 543	SC-US1-H47-3ZF	C-CAP,0.047U-50 Z	a	b	c
MAIN		O	C 544	SC-US1-H47-3ZF	C-CAP,0.047U-50 Z	a	b	c
MAIN		O	C 561	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 562	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 563	SC-QI1-H18-2JZ	CAP,M 1800P-50 J	a	b	c
MAIN		O	C 564	SC-QI1-H18-2JZ	CAP,M 1800P-50 J	a	b	c
MAIN		O	C 565	SC-US1-H22-1JA	C-CAP,220P-50 J	a	b	c
MAIN		O	C 566	SC-US1-H22-1JA	C-CAP,220P-50 J	a	b	c
MAIN		O	C 567	SC-US1-H22-2KC	C-CAP,2200P-50 K	a	b	c
MAIN		O	C 568	SC-US1-H22-2KC	C-CAP,2200P-50 K	a	b	c
MAIN		O	C 571	SC-QI1-H18-2JZ	CAP,M 1800P-50 J	a	b	c
MAIN		O	C 572	SC-QI1-H18-2JZ	CAP,M 1800P-50 J	a	b	c
MAIN		O	C 573	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 574	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 575	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 576	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 581	SC-US1-H15-1JA	C-CAP,150P-50 J	a	b	c
MAIN		O	C 583	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 584	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 585	SC-US1-H10-2KC	C-CAP,1000P-50 K	a	b	c
MAIN		O	C 587	SC-US1-H10-2KC	C-CAP,1000P-50 K	a	b	c
MAIN		O	C 588	SC-US1-H10-2KC	C-CAP,1000P-50 K	a	b	c
MAIN		O	C 589	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 590	SC-EA1-VH1-00T	CAP,E 10U-35	a	b	c
MAIN		O	C 591	SC-US1-H10-2KC	C-CAP,1000P-50 K	a	b	c
MAIN		O	C 592	SC-US1-H10-2KC	C-CAP,1000P-50 K	a	b	c
MAIN		O	C 593	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 594	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 595	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 601	SC-EA1-CH1-01T	CAP,E 100U-16	a	b	c
MAIN		O	C 605	SC-EA1-CH1-01T	CAP,E 100U-16	a	b	c
MAIN		O	C 606	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 611	SC-EA1-CH2-21T	CAP,E 220U-16	a	b	c
MAIN		O	C 612	SC-EA1-AH4-71T	CAP,E 470U-10	a	b	c
MAIN		O	C 621	SC-EA1-CH2-21T	CAP,E 220U-16	a	b	c
MAIN		O	C 623	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 625	SC-EA1-CH2-21T	CAP,E 220U-16	a	b	c
MAIN		O	C 627	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 631	SC-US1-H47-3ZF	C-CAP,0.047U-50 Z	a	b	c
MAIN		O	C 632	SC-US1-H47-3ZF	C-CAP,0.047U-50 Z	a	b	c

ELECTRICAL PARTS LIST - 10/17

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		O	C 633	SC-US1-H47-3ZF	C-CAP,0.047U-50 Z	a	b	c
MAIN		O	C 634	SC-US1-H47-3ZF	C-CAP,0.047U-50 Z	a	b	c
MAIN		O	C 635	SC-US1-H47-3ZF	C-CAP,0.047U-50 Z	a	b	c
MAIN		O	C 636	SC-US1-H22-1JA	C-CAP,220P-50 J	a	b	c
MAIN		O	C 637	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 638	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 639	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 640	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 641	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 642	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 643	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 644	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 645	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 646	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 647	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 648	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 649	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 650	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 651	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
MAIN		O	C 652	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		O	C 653	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
MAIN		O	C 654	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
MAIN		O	C 655	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
MAIN		O	C 656	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
MAIN		O	C 657	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
MAIN		O	C 658	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
MAIN		O	C 659	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
MAIN		O	C 660	SC-US1-H47-1JA	C-CAP,470P-50 J	a	b	c
MAIN		O	C 661	SC-US1-H47-1JA	C-CAP,470P-50 J	a	b	c
MAIN		O	C 662	SC-US1-H47-1JA	C-CAP,470P-50 J	a	b	c
MAIN		O	C 663	SC-US1-H10-1JA	C-CAP,100P-50 J	a	b	c
MAIN		O	C 671	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 672	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 673	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 674	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 675	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 676	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
MAIN		O	C 677	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 678	SC-US1-H47-0JA	C-CAP,47P-50 J	a	b	c
MAIN		O	C 685	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		O	C 686	SC-EA1-CH1-01T	CAP,E 100U-16	a	b	c
MAIN		O	C 687	SC-EA1-CH1-01T	CAP,E 100U-16	a	b	c
MAIN		O	CN 010	SJ-P17-GA1-17Z	WAFER,CARD CABLE GF102-17S-TS	a	b	c
MAIN		O	CN 012	SJ-P15-GA1-17Z	WAFER,CARD CABLE 15P 1M/M S/T	a	b	c
MAIN		O	CN 013	SJ-P15-GA1-17Z	WAFER,CARD CABLE 15P 1M/M S/T	a	b	c
MAIN		O	CN 064	SJ-P04-GA0-1ZM	WAFERMOLEX 5267-04A	a	b	c
MAIN		X	CN 064	SW-B1E-004-200	WIRE ASSY	a	b	c
MAIN		O	CN 071	SJ-P23-GA1-17Z	WAFER,CARD CABLE GF102-23S-TS	a	b	c
MAIN		O	CN 072	SJ-P17-GA1-17Z	WAFER,CARD CABLE GF102-17S-TS	a	b	c
MAIN		S	D 263	SV-DMT-ZJ4-3C0	ZENER,4.3V 1/4W C	a	b	c
MAIN		S	D 266	SV-DMT-ZJ3-3B0	ZENER,3.3V 1/4W B	a	b	c
MAIN		S	D 301	SV-DRB-160-L60	DIODE,RB160L-60TE25	a	b	c
MAIN		S	D 302	SV-DRB-160-L60	DIODE,RB160L-60TE25	a	b	c
MAIN		S	D 303	SV-DRB-160-L60	DIODE,RB160L-60TE25	a	b	c
MAIN		S	D 305	SV-DRB-160-L60	DIODE,RB160L-60TE25	a	b	c
MAIN		S	D 306	SV-DRB-160-L60	DIODE,RB160L-60TE25	a	b	c
MAIN		S	D 315	SV-D1S-S13-3MT	DIODE,1SS133T-77	a	b	c
MAIN		S	D 391	SV-DMT-ZJ7-5A0	ZENER,7.5V 1/4W A	a	b	c
MAIN		S	D 392	SV-DMT-ZJ7-5A0	ZENER,7.5V 1/4W A	a	b	c
MAIN		S	D 401	SV-DRB-160-L60	DIODE,RB160L-60TE25	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		S	D 402	SV-DRB-160-L60	DIODE,RB160L-60TE25	a	b	c
MAIN		S	D 403	SV-DRB-160-L60	DIODE,RB160L-60TE25	a	b	c
MAIN		S	D 405	SV-DRB-160-L60	DIODE,RB160L-60TE25	a	b	c
MAIN		S	D 406	SV-DRB-160-L60	DIODE,RB160L-60TE25	a	b	c
MAIN		S	D 415	SV-D1S-S13-3MT	DIODE,1SS133T-77	a	b	c
MAIN		S	D 497	SV-D1S-S13-3MT	DIODE,1SS133T-77	a	b	c
MAIN		S	D 501	SV-DRB-160-L60	DIODE,RB160L-60TE25	a	b	c
MAIN		S	D 502	SV-DRB-160-L60	DIODE,RB160L-60TE25	a	b	c
MAIN		S	D 503	SV-DRB-160-L60	DIODE,RB160L-60TE25	a	b	c
MAIN		S	D 505	SV-DRB-160-L60	DIODE,RB160L-60TE25	a	b	c
MAIN		S	D 506	SV-DRB-160-L60	DIODE,RB160L-60TE25	a	b	c
MAIN		S	D 515	SV-D1S-S13-3MT	DIODE,1SS133T-77	a	b	c
MAIN		S	D 562	SV-D1S-S13-3MT	DIODE,1SS133T-77	a	b	c
MAIN		S	D 595	SV-D1S-S13-3MT	DIODE,1SS133T-77	a	b	c
MAIN		S	D 619	SV-D1S-S13-3MT	DIODE,1SS133T-77	a	b	c
MAIN		S	D 621	SV-D1S-S13-3MT	DIODE,1SS133T-77	a	b	c
MAIN		S	D 622	SV-D1S-S13-3MT	DIODE,1SS133T-77	a	b	c
MAIN		S	D 624	SV-D1S-S13-3MT	DIODE,1SS133T-77	a	b	c
MAIN		S	D 625	SV-D1S-S13-3MT	DIODE,1SS133T-77	a	b	c
MAIN		S	D 626	SV-D1S-S13-3MT	DIODE,1SS133T-77	a	b	c

ELECTRICAL PARTS LIST - 11/17

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		S	D 628	SV-D1S-S13-3MT	DIODE,1SS133T-77	a	b	c
MAIN		O	FFC010	SW-C3B-2A1-7A2	CARD,CABLE SHIELD	a	.	.
MAIN		X	FFC010	SW-C1B-2A1-7A2	CABLE,CARD	.	b	c
MAIN		O	FFC012	SW-C1B-2A1-5A0	CABLE,CARD	a	b	c
MAIN		O	FFC013	SW-C1B-2A1-5A0	CABLE,CARD	a	b	c
MAIN		O	FFC071	SW-C1B-2A2-3A2	CABLE,CARD	a	b	c
MAIN		O	FFC072	SW-C1B-2A1-7A1	CABLE,CARD	a	b	c
MAIN		S	IC 021	SV-IAK-411-2VF	IC,AK4112A-VF-E2	a	b	c
MAIN		S	IC 023	SV-ICS-493-263	IC,CS493263-CL	a	b	c
MAIN		S	IC 027	SV-INJ-M20-68M	IC,NJM2068M-TE1	a	b	c
MAIN		S	IC 028	SV-IAK-452-7BV	IC,AK4527B-VQ	a	b	c
MAIN		S	IC 031	SI-NJM-206-8MD	IC,NJM2068MD-TE1	a	b	c
MAIN	!	S	IC 032	SV-ITA-202-210	IC,TA2022-100	a	b	c
MAIN		S	IC 036	SI-NJM-206-8MD	IC,NJM2068MD-TE1	a	b	c
MAIN		S	IC 038	SV-INJ-M20-68M	IC,NJM2068M-TE1	a	b	c
MAIN		S	IC 039	SV-IM6-244-6FP	IC,M62446FP	a	b	c
MAIN		S	IC 041	SI-NJM-206-8MD	IC,NJM2068MD-TE1	a	b	c
MAIN	!	S	IC 042	SV-ITA-202-210	IC,TA2022-100	a	b	c
MAIN		S	IC 046	SI-NJM-206-8MD	IC,NJM2068MD-TE1	a	b	c
MAIN		S	IC 048	SV-INJ-M20-68M	IC,NJM2068M-TE1	a	b	c
MAIN	!	S	IC 049	SV-ITA-731-7P0	IC,TA7317P	a	b	c
MAIN		S	IC 051	SI-NJM-206-8MD	IC,NJM2068MD-TE1	a	b	c
MAIN	!	S	IC 052	SV-ITA-202-210	IC,TA2022-100	a	b	c
MAIN		S	IC 056	SI-NJM-206-8MD	IC,NJM2068MD-TE1	a	b	c
MAIN		S	IC 059	SV-INJ-M20-68M	IC,NJM2068M-TE1	a	b	c
MAIN		S	IC 061	SV-I74-LCX-08M	IC,74LCX08MX	a	b	c
MAIN		S	IC 062	SV-INJ-U37-13G	IC,NJU3713G	a	b	c
MAIN		O	JK 021	SJ-STO-RX1-790	MODULE,OPTICAL(RECEIVE)TORX1	a	b	c
MAIN		O	JK 022	SJ-STO-RX1-790	MODULE,OPTICAL(RECEIVE)TORX1	a	b	c
MAIN		O	JK 023	SJ-S9L-001-Z00	MODULE,OPTICAL TOTX178	a	b	c
MAIN		O	JK 031	SJ-J5P-014-Z00	TERMINAL,SPEAKER 4P	a	b	c
MAIN		O	JK 041	SJ-J5Q-010-Y00	TERMINAL,SPEAKER 8P	a	b	c
MAIN		O	JK 051	SJ-J4M-037-Z00	JACK,BOARDS-440AE	a	b	c
MAIN		O	L 201	SL-Z9M-011-Z00	C-COIL,22UH K LEMC3225T-2	a	b	c
MAIN		O	L 209	SL-Z9J-003-Z00	C-F-BEAD,BLM21A121S	a	b	c
MAIN		O	L 215	SL-Z9J-003-Z00	C-F-BEAD,BLM21A121S	a	b	c
MAIN		O	L 223	SL-Z9J-003-Z00	C-F-BEAD,BLM21A121S	a	b	c
MAIN		O	L 241	SL-Z9J-003-Z00	C-F-BEAD,BLM21A121S	a	b	c
MAIN		O	L 261	SL-Z9J-003-Z00	C-F-BEAD,BLM21A121S	a	b	c
MAIN		O	L 281	SL-Z9J-003-Z00	C-F-BEAD,BLM21A121S	a	b	c
MAIN		O	L 295	SL-Z9J-003-Z00	C-F-BEAD,BLM21A121S	a	b	c
MAIN		O	L 301	SL-Z9J-003-Z00	C-F-BEAD,BLM21A121S	a	b	c
MAIN		O	L 302	SL-Z9J-003-Z00	C-F-BEAD,BLM21A121S	a	b	c
MAIN		O	L 303	SL-Z9M-001-Z00	C-COIL,100UH K NLC322522T	a	b	c
MAIN		O	L 305	SL-Z9Z-008-Z00	COIL,SPEAKER	a	b	c
MAIN		O	L 306	SL-Z9Z-008-Z00	COIL,SPEAKER	a	b	c
MAIN		O	L 401	SL-Z9J-003-Z00	C-F-BEAD,BLM21A121S	a	b	c
MAIN		O	L 402	SL-Z9J-003-Z00	C-F-BEAD,BLM21A121S	a	b	c
MAIN		O	L 403	SL-Z9M-001-Z00	C-COIL,100UH K NLC322522T	a	b	c
MAIN		O	L 405	SL-Z9Z-008-Z00	COIL,SPEAKER	a	b	c
MAIN		O	L 406	SL-Z9Z-008-Z00	COIL,SPEAKER	a	b	c
MAIN		O	L 501	SL-Z9J-003-Z00	C-F-BEAD,BLM21A121S	a	b	c
MAIN		O	L 502	SL-Z9J-003-Z00	C-F-BEAD,BLM21A121S	a	b	c
MAIN		O	L 503	SL-Z9M-001-Z00	C-COIL,100UH K NLC322522T	a	b	c
MAIN		O	L 505	SL-Z9Z-008-Z00	COIL,SPEAKER	a	b	c
MAIN		O	L 506	SL-Z9Z-008-Z00	COIL,SPEAKER	a	b	c
MAIN		S	Q 261	SV-TKS-D10-21Y	TR,KSD1021Y	a	b	c
MAIN		S	Q 266	SV-TKS-C23-16Y	TR,KSC2316Y	a	b	c
MAIN		S	Q 303	SV-TKR-C10-2S0	C-TR,KRC102S	a	b	c
MAIN		S	Q 313	SV-TKT-D13-04T	C-TR,KTD1304	a	b	c
MAIN		S	Q 314	SV-TKT-D13-04T	C-TR,KTD1304	a	b	c
MAIN		S	Q 413	SV-TKT-D13-04T	C-TR,KTD1304	a	b	c
MAIN		S	Q 414	SV-TKT-D13-04T	C-TR,KTD1304	a	b	c
MAIN		S	Q 481	SV-TKR-C11-4S0	C-TR,KRC114S	a	b	c
MAIN		S	Q 482	SV-TKR-A10-2S0	C-TR,KRA102S	a	b	c
MAIN		S	Q 513	SV-TKT-D13-04T	C-TR,KTD1304	a	b	c
MAIN		S	Q 514	SV-TKT-D13-04T	C-TR,KTD1304	a	b	c
MAIN		S	Q 595	SV-TKT-D13-04T	C-TR,KTD1304	a	b	c
MAIN		S	Q 596	SV-TKT-D13-04T	C-TR,KTD1304	a	b	c
MAIN	!	S	Q 611	SV-TKS-B11-51Y	TR,KSB1151Y	a	b	c
MAIN	!	S	Q 612	SV-TKS-B11-51Y	TR,KSB1151Y	a	b	c
MAIN		S	Q 613	SV-TKR-C10-2S0	C-TR,KRC102S	a	b	c
MAIN		S	Q 614	SV-TKS-D10-21Y	TR,KSD1021Y	a	b	c
MAIN		S	Q 619	SV-TKR-A10-2S0	C-TR,KRA102S	a	b	c
MAIN		S	Q 620	SV-TKR-C10-2S0	C-TR,KRC102S	a	b	c
MAIN		S	Q 621	SV-TKR-A10-2S0	C-TR,KRA102S	a	b	c
MAIN		S	Q 622	SV-TKR-C11-4S0	C-TR,KRC114S	a	b	c
MAIN		S	Q 623	SV-TKR-C10-2S0	C-TR,KRC102S	a	b	c
MAIN		S	Q 624	SV-TKR-A10-2S0	C-TR,KRA102S	a	b	c
MAIN		S	Q 625	SV-TKR-A10-2S0	C-TR,KRA102S	a	b	c

ELECTRICAL PARTS LIST - 12/17

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		S	Q 626	SV-TKR-C11-4S0	C-TR,KRC114S	a	b	c
MAIN		S	Q 627	SV-TKR-C10-2S0	C-TR,KRC102S	a	b	c
MAIN		S	Q 628	SV-TKR-A10-2S0	C-TR,KRA102S	a	b	c
MAIN		S	Q 629	SV-TKR-C10-2S0	C-TR,KRC102S	a	b	c
MAIN		S	Q 630	SV-TKS-B81-1YT	TR,KSB811Y	a	b	c
MAIN		X	R 201	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 202	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 203	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
MAIN		X	R 204	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
MAIN		X	R 205	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
MAIN		X	R 206	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
MAIN		X	R 207	SR-J10-DJ4-R7T	C-RES,4.7-1/10W J	a	b	c
MAIN		X	R 208	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
MAIN		X	R 209	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
MAIN		X	R 210	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
MAIN		X	R 211	SR-J10-DJ1-05T	C-RES,1M-1/10W J	a	b	c
MAIN		X	R 212	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
MAIN		X	R 213	SR-J10-DJ1-83T	C-RES,18K-1/10W J	a	b	c
MAIN		X	R 214	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 215	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		X	R 216	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
MAIN		X	R 217	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 218	SR-J10-DJ4-R7T	C-RES,4.7-1/10W J	a	b	c
MAIN		X	R 219	SR-J10-DJ4-R7T	C-RES,4.7-1/10W J	a	b	c
MAIN		X	R 220	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
MAIN		X	R 221	SR-J10-DJ4-R7T	C-RES,4.7-1/10W J	a	b	c
MAIN		X	R 222	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 223	SR-J10-DJ4-R7T	C-RES,4.7-1/10W J	a	b	c
MAIN		X	R 224	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 225	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 226	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 227	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 228	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 229	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 230	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 231	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 232	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 233	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 234	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 235	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		X	R 236	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 237	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 238	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 239	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 240	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 241	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 242	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 243	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 244	SR-J10-DJ3-33T	C-RES,33K-1/10W J	a	b	c
MAIN		X	R 245	SR-J10-DJ4-R7T	C-RES,4.7-1/10W J	a	b	c
MAIN		X	R 246	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 247	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 248	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 249	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 250	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 251	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 252	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 253	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 254	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 255	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		X	R 256	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 257	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 258	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 259	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 260	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 261	SR-J10-DJ6-81T	C-RES,680-1/10W J	a	b	c
MAIN		X	R 266	SR-J10-DJ6-81T	C-RES,680-1/10W J	a	b	c
MAIN		X	R 269	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 270	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 271	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 272	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 273	SR-J10-DJ5-62T	C-RES,5.6K-1/10W J	a	b	c
MAIN		X	R 274	SR-J10-DJ5-62T	C-RES,5.6K-1/10W J	a	b	c
MAIN		X	R 275	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 276	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 277	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 278	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 279	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
MAIN		X	R 280	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
MAIN		X	R 281	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c

ELECTRICAL PARTS LIST - 13/17

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
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Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		X	R 282	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
MAIN		X	R 284	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
MAIN		X	R 285	SR-J10-DJ4-R7T	C-RES,4.7-1/10W J	a	b	c
MAIN		X	R 286	SR-J10-DJ4-R7T	C-RES,4.7-1/10W J	a	b	c
MAIN		X	R 287	SR-J10-DJ4-R7T	C-RES,4.7-1/10W J	a	b	c
MAIN		X	R 288	SR-J10-DJ4-R7T	C-RES,4.7-1/10W J	a	b	c
MAIN		X	R 289	SR-J10-DJ4-R7T	C-RES,4.7-1/10W J	a	b	c
MAIN		X	R 290	SR-J10-DJ4-R7T	C-RES,4.7-1/10W J	a	b	c
MAIN		X	R 291	SR-J10-DJ4-R7T	C-RES,4.7-1/10W J	a	b	c
MAIN		X	R 292	SR-J10-DJ4-R7T	C-RES,4.7-1/10W J	a	b	c
MAIN		X	R 293	SR-J10-DJ4-R7T	C-RES,4.7-1/10W J	a	b	c
MAIN		X	R 294	SR-J10-DJ4-R7T	C-RES,4.7-1/10W J	a	b	c
MAIN		X	R 295	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
MAIN		X	R 296	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
MAIN		X	R 301	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 302	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 303	SR-J10-DJ1-23T	C-RES,12K-1/10W J	a	b	c
MAIN		X	R 304	SR-J10-DJ1-23T	C-RES,12K-1/10W J	a	b	c
MAIN		X	R 305	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 306	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		X	R 307	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
MAIN		X	R 308	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
MAIN		X	R 309	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 310	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 311	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 312	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 313	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 314	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 321	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 322	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 323	SR-J10-DJ2-23T	C-RES,22K-1/10W J	a	b	c
MAIN		X	R 324	SR-J10-DJ2-23T	C-RES,22K-1/10W J	a	b	c
MAIN		X	R 325	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 326	SR-J10-DJ1-84T	C-RES,180K-1/10W J	a	b	c
MAIN		X	R 327	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 328	SR-J10-DJ1-84T	C-RES,180K-1/10W J	a	b	c
MAIN		X	R 329	SR-J10-DJ8-22T	C-RES,8.2K-1/10W J	a	b	c
MAIN		X	R 330	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 331	SR-J10-DJ5-62T	C-RES,5.6K-1/10W J	a	b	c
MAIN		X	R 332	SR-J10-DJ5-62T	C-RES,5.6K-1/10W J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		X	R 333	SR-J10-DJ1-22T	C-RES,1.2K-1/10W J	a	b	c
MAIN		X	R 334	SR-J10-DJ1-22T	C-RES,1.2K-1/10W J	a	b	c
MAIN		X	R 335	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 336	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 337	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 338	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 339	SR-J10-DJ1-23T	C-RES,12K-1/10W J	a	b	c
MAIN		X	R 340	SR-J10-DJ1-23T	C-RES,12K-1/10W J	a	b	c
MAIN		X	R 341	SR-J10-DJ1-22T	C-RES,1.2K-1/10W J	a	b	c
MAIN		X	R 342	SR-J10-DJ1-22T	C-RES,1.2K-1/10W J	a	b	c
MAIN		X	R 343	SR-J10-DJ2-71T	C-RES,270-1/10W J	a	b	c
MAIN		X	R 344	SR-J10-DJ2-71T	C-RES,270-1/10W J	a	b	c
MAIN		O	R 345	SR-G2S-ANJ-6R8	RES,M/F 6.8-2W J	a	b	c
MAIN		O	R 346	SR-G2S-ANJ-6R8	RES,M/F 6.8-2W J	a	b	c
MAIN		X	R 347	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 348	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 349	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 350	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		O	R 351	SR-G1A-NJ3-92H	RES,M/F 3.9K-1W J	a	b	c
MAIN		O	R 352	SR-G1A-NJ3-92H	RES,M/F 3.9K-1W J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		O	R 353	SR-G1A-NJ3-91H	RES,M/F 390-1W J	a	b	c
MAIN		O	R 354	SR-G1A-NJ3-91H	RES,M/F 390-1W J	a	b	c
MAIN		X	R 355	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 357	SR-D20-TJ1-03T	RES,10K-1/5W J	a	b	c
MAIN		X	R 358	SR-D20-TJ1-03T	RES,10K-1/5W J	a	b	c
MAIN		X	R 359	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 360	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 361	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 362	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 363	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 364	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 365	SR-J10-DJ2-22T	C-RES,2.2K-1/10W J	a	b	c
MAIN		X	R 366	SR-J10-DJ2-22T	C-RES,2.2K-1/10W J	a	b	c
MAIN		X	R 367	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 368	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 369	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 370	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 371	SR-J10-DJ1-81T	C-RES,180-1/10W J	a	b	c
MAIN		X	R 372	SR-J10-DJ1-81T	C-RES,180-1/10W J	a	b	c
MAIN		X	R 375	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c

ELECTRICAL PARTS LIST - 14/17

! = ⚠ SAFTY PARTS
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All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
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Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		X	R 376	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 377	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 378	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 379	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 380	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 381	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 384	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 387	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 388	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 390	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 391	SR-D20-TJ3-31T	RES,330-1/5W J	a	b	c
MAIN		X	R 392	SR-D20-TJ3-31T	RES,330-1/5W J	a	b	c
MAIN		X	R 393	SR-D20-TJ3-31T	RES,330-1/5W J	a	b	c
MAIN		X	R 394	SR-D20-TJ3-31T	RES,330-1/5W J	a	b	c
MAIN		X	R 401	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 402	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 403	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 404	SR-J10-DJ3-92T	RES,CHIP	a	b	c
MAIN		X	R 405	SR-J10-DJ1-23T	C-RES,12K-1/10W J	a	b	c
MAIN		X	R 406	SR-J10-DJ1-23T	C-RES,12K-1/10W J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		X	R 407	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
MAIN		X	R 408	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
MAIN		X	R 409	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 410	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 411	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 412	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 413	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 414	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 421	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 422	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 423	SR-J10-DJ2-23T	C-RES,22K-1/10W J	a	b	c
MAIN		X	R 424	SR-J10-DJ2-23T	C-RES,22K-1/10W J	a	b	c
MAIN		X	R 425	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 426	SR-J10-DJ1-84T	C-RES,180K-1/10W J	a	b	c
MAIN		X	R 427	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 428	SR-J10-DJ1-84T	C-RES,180K-1/10W J	a	b	c
MAIN		X	R 429	SR-J10-DJ8-22T	C-RES,8.2K-1/10W J	a	b	c
MAIN		X	R 430	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 431	SR-J10-DJ5-62T	C-RES,5.6K-1/10W J	a	b	c
MAIN		X	R 432	SR-J10-DJ5-62T	C-RES,5.6K-1/10W J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		X	R 433	SR-J10-DJ1-22T	C-RES,1.2K-1/10W J	a	b	c
MAIN		X	R 434	SR-J10-DJ1-22T	C-RES,1.2K-1/10W J	a	b	c
MAIN		X	R 435	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 436	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 437	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 438	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 439	SR-J10-DJ1-23T	C-RES,12K-1/10W J	a	b	c
MAIN		X	R 440	SR-J10-DJ1-23T	C-RES,12K-1/10W J	a	b	c
MAIN		X	R 441	SR-J10-DJ1-22T	C-RES,1.2K-1/10W J	a	b	c
MAIN		X	R 442	SR-J10-DJ1-22T	C-RES,1.2K-1/10W J	a	b	c
MAIN		X	R 443	SR-J10-DJ2-71T	C-RES,270-1/10W J	a	b	c
MAIN		X	R 444	SR-J10-DJ2-71T	C-RES,270-1/10W J	a	b	c
MAIN		O	R 445	SR-G2S-ANJ-6R8	RES,M/F 6.8-2W J	a	b	c
MAIN		O	R 446	SR-G2S-ANJ-6R8	RES,M/F 6.8-2W J	a	b	c
MAIN		X	R 447	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 448	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 449	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 450	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 459	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 460	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		X	R 461	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 462	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 463	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 464	SR-J10-DJ3-32T	C-RES,3.3K-1/5W J	a	b	c
MAIN		X	R 465	SR-J10-DJ2-22T	C-RES,2.2K-1/10W J	a	b	c
MAIN		X	R 466	SR-J10-DJ2-22T	C-RES,2.2K-1/10W J	a	b	c
MAIN		X	R 467	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 468	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 469	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 470	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 471	SR-J10-DJ1-81T	C-RES,180-1/10W J	a	b	c
MAIN		X	R 472	SR-J10-DJ1-81T	C-RES,180-1/10W J	a	b	c
MAIN		X	R 473	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 474	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 475	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 476	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 477	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 478	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 481	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 482	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c

ELECTRICAL PARTS LIST - 15/17

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		X	R 483	SR-J10-DJ2-22T	C-RES,2.2K-1/10W J	a	b	c
MAIN		X	R 484	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 485	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 486	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	P 487	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 488	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 491	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 492	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 493	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 494	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 495	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 496	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 497	SR-J10-DJ6-83T	C-RES,68K-1/10W J	a	b	c
MAIN		X	R 498	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 499	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 500	SR-J10-DJ2-22T	C-RES,2.2K-1/10W J	a	b	c
MAIN		X	R 501	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 502	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 503	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 504	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		X	R 505	SR-J10-DJ1-23T	C-RES,12K-1/10W J	a	b	c
MAIN		X	R 506	SR-J10-DJ1-23T	C-RES,12K-1/10W J	a	b	c
MAIN		X	R 507	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
MAIN		X	R 508	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
MAIN		X	R 509	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	P 510	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 511	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 512	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 513	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 514	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 521	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 522	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 523	SR-J10-DJ2-23T	C-RES,22K-1/10W J	a	b	c
MAIN		X	R 524	SR-J10-DJ2-23T	C-RES,22K-1/10W J	a	b	c
MAIN		X	R 525	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 526	SR-J10-DJ1-84T	C-RES,180K-1/10W J	a	b	c
MAIN		X	R 527	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 528	SR-J10-DJ1-84T	C-RES,180K-1/10W J	a	b	c
MAIN		X	R 529	SR-J10-DJ8-22T	C-RES,8.2K-1/10W J	a	b	c
MAIN		X	R 530	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		X	R 531	SR-J10-DJ5-62T	C-RES,5.6K-1/10W J	a	b	c
MAIN		X	R 532	SR-J10-DJ5-62T	C-RES,5.6K-1/10W J	a	b	c
MAIN		X	R 533	SR-J10-DJ1-22T	C-RES,1.2K-1/10W J	a	b	c
MAIN		X	P 534	SR-J10-DJ1-22T	C-RES,1.2K-1/10W J	a	b	c
MAIN		X	R 535	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 536	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 537	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 538	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 539	SR-J10-DJ1-23T	C-RES,12K-1/10W J	a	b	c
MAIN		X	R 540	SR-J10-DJ1-23T	C-RES,12K-1/10W J	a	b	c
MAIN		X	R 541	SR-J10-DJ1-22T	C-RES,1.2K-1/10W J	a	b	c
MAIN		X	R 542	SR-J10-DJ1-22T	C-RES,1.2K-1/10W J	a	b	c
MAIN		X	R 543	SR-J10-DJ2-71T	C-RES,270-1/10W J	a	b	c
MAIN		X	R 544	SR-J10-DJ2-71T	C-RES,270-1/10W J	a	b	c
MAIN		O	R 545	SR-G2S-ANJ-6R8	RES,M/F 6.8-2W J	a	b	c
MAIN		O	R 546	SR-G2S-ANJ-6R8	RES,M/F 6.8-2W J	a	b	c
MAIN		X	R 547	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 548	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 549	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 550	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		X	R 559	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 560	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 561	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 562	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 563	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 564	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 565	SR-J10-DJ2-22T	C-RES,2.2K-1/10W J	a	b	c
MAIN		X	R 566	SR-J10-DJ2-22T	C-RES,2.2K-1/10W J	a	b	c
MAIN		X	R 567	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 568	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 569	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 570	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 571	SR-J10-DJ1-81T	C-RES,180-1/10W J	a	b	c
MAIN		X	R 572	SR-J10-DJ1-81T	C-RES,180-1/10W J	a	b	c
MAIN		X	R 573	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 574	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 575	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 576	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 577	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 578	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c

ELECTRICAL PARTS LIST - 16/17

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		X	R 579	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 580	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 581	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 582	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	P 583	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 584	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 585	SR-J10-DJ6-82T	C-RES,6.8K-1/10W J	a	b	c
MAIN		X	R 586	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 587	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 588	SR-J10-DJ1-23T	C-RES,12K-1/10W J	a	b	c
MAIN		X	R 589	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 590	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
MAIN		X	R 591	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 592	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
MAIN		X	R 593	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 594	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 595	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 596	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 601	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
MAIN		X	R 605	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		X	R 606	SR-J10-DJ1-02T	C-RES,1K-1/10W J	a	b	c
MAIN		X	R 611	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 612	SR-D20-TJ3-31T	RES,330-1/5W J	a	b	c
MAIN		X	R 613	SR-D20-TJ3-31T	RES,330-1/5W J	a	b	c
MAIN		X	R 614	SR-J10-DJ2-22T	C-RES,2.2K-1/10W J	a	b	c
MAIN		X	P 615	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 619	SR-J10-DJ4-72T	C-RES,4.7K-1/10W J	a	b	c
MAIN		X	R 621	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 622	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 625	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 626	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 629	SR-J10-DJ1-03T	C-RES,10K-1/10W J	a	b	c
MAIN		X	R 630	SR-J10-DJ4-73T	C-RES,47K-1/10W J	a	b	c
MAIN		X	R 631	SR-J10-DJ2-22T	C-RES,2.2K-1/10W J	a	b	c
MAIN		X	R 632	SR-J10-DJ1-R0T	C-RES,1.0-1/10W J	a	b	c
MAIN		X	R 633	SR-J10-DJ1-R0T	C-RES,1.0-1/10W J	a	b	c
MAIN		X	R 634	SR-J10-DJ1-R0T	C-RES,1.0-1/10W J	a	b	c
MAIN		X	R 635	SR-J10-DJ1-R0T	C-RES,1.0-1/10W J	a	b	c
MAIN		X	R 636	SR-J10-DJ6-80T	C-RES,68-1/10W J	a	b	c
MAIN		X	R 637	SR-J10-DJ6-80T	C-RES,68-1/10W J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		X	R 638	SR-J10-DJ6-80T	C-RES,68-1/10W J	a	b	c
MAIN		X	R 639	SR-J10-DJ6-80T	C-RES,68-1/10W J	a	b	c
MAIN		X	R 640	SR-J10-DJ6-80T	C-RES,68-1/10W J	a	b	c
MAIN		X	P 641	SR-J10-DJ6-80T	C-RES,68-1/10W J	a	b	c
MAIN		X	R 642	SR-J10-DJ6-80T	C-RES,68-1/10W J	a	b	c
MAIN		X	R 643	SR-J10-DJ6-80T	C-RES,68-1/10W J	a	b	c
MAIN		X	R 644	SR-J10-DJ6-80T	C-RES,68-1/10W J	a	b	c
MAIN		X	R 645	SR-J10-DJ6-80T	C-RES,68-1/10W J	a	b	c
MAIN		X	R 646	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 647	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 648	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 649	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 650	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 651	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 652	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 653	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 654	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 655	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 656	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 657	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		X	R 658	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 659	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 660	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
MAIN		X	R 661	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
MAIN		X	R 662	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
MAIN		X	R 663	SR-J10-DJ1-01T	C-RES,100-1/10W J	a	b	c
MAIN		X	R 671	SR-J10-DJ4-71T	C-RES,470-1/10W J	a	b	c
MAIN		X	R 673	SR-J10-DJ1-00T	C-RES,10-1/10W J	a	b	c
MAIN		X	R 675	SR-J10-DJ1-R0T	C-RES,1.0-1/10W J	a	b	c
MAIN		X	R 677	SR-J10-DJ1-R0T	C-RES,1.0-1/10W J	a	b	c
MAIN		X	R 678	SR-J10-DJ1-R0T	C-RES,1.0-1/10W J	a	b	c
MAIN		X	R 679	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 680	SR-J10-DJ2-22T	C-RES,2.2K-1/10W J	a	b	c
MAIN		X	R 681	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 682	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 683	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 684	SR-J10-DJ3-30T	C-RES,33-1/10W J	a	b	c
MAIN		X	R 685	SR-J10-DJ4-R7T	C-RES,4.7-1/10W J	a	b	c
MAIN		O	R 697	SR-G2A-NJ8-21H	RES,M/F 820-2W J	.	b	c
MAIN		O	R 698	SR-G2A-NJ8-21H	RES,M/F 820-2W J	a	.	.

ELECTRICAL PARTS LIST - 17/17

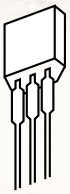
! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
MAIN		O	R 699	SR-G2A-NJ8-21H	RES,M/F 820-2W J	a	.	.
MAIN	!	O	RY 031	SS-L4A-004-ZU0	RELAY	a	b	c
MAIN	!	O	RY 041	SS-L4A-004-ZU0	RELAY	a	b	c
MAIN	!	O	RY 051	SS-L4A-004-ZU0	RELAY	a	b	c
MAIN		O	VR 031	SV-N1R-A47-3B0	RES,RH0638C-473	a	b	c
MAIN		O	VR 032	SV-N1R-A47-3B0	RES,RH0638C-473	a	b	c
MAIN		O	VR 041	SV-N1R-A47-3B0	RES,RH0638C-473	a	b	c
MAIN		O	VR 042	SV-N1R-A47-3B0	RES,RH0638C-473	a	b	c
MAIN		O	VR 051	SV-N1R-A47-3B0	RES,RH0638C-473	a	b	c
MAIN		O	VR 052	SV-N1R-A47-3B0	RES,RH0638C-473	a	b	c
MAIN		O	X 211	SO-X12-288-E22	VIB,XTAL 12.288MHZ	a	b	c
OTHER		O	C 001	SC-EA0-JH1-02T	CAP,E 1000U-6.3V	a	b	c
OTHER		O	C 104	SC-US1-E10-4ZF	C-CAP,0.1U-25 Z	a	b	c
OTHER		O	L 000	SL-Z9Z-006-Z00	FERRITE CORE,5*12*25	a	.	.

TRANSISTOR ILLUSTRATION -1/1

E C B

KSC2316
KTC3198

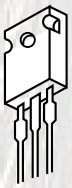


E C B

KRA102M
KRC102M
KSB811Y
KSD1021

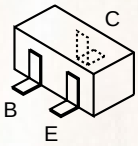
E C B

KSB1151



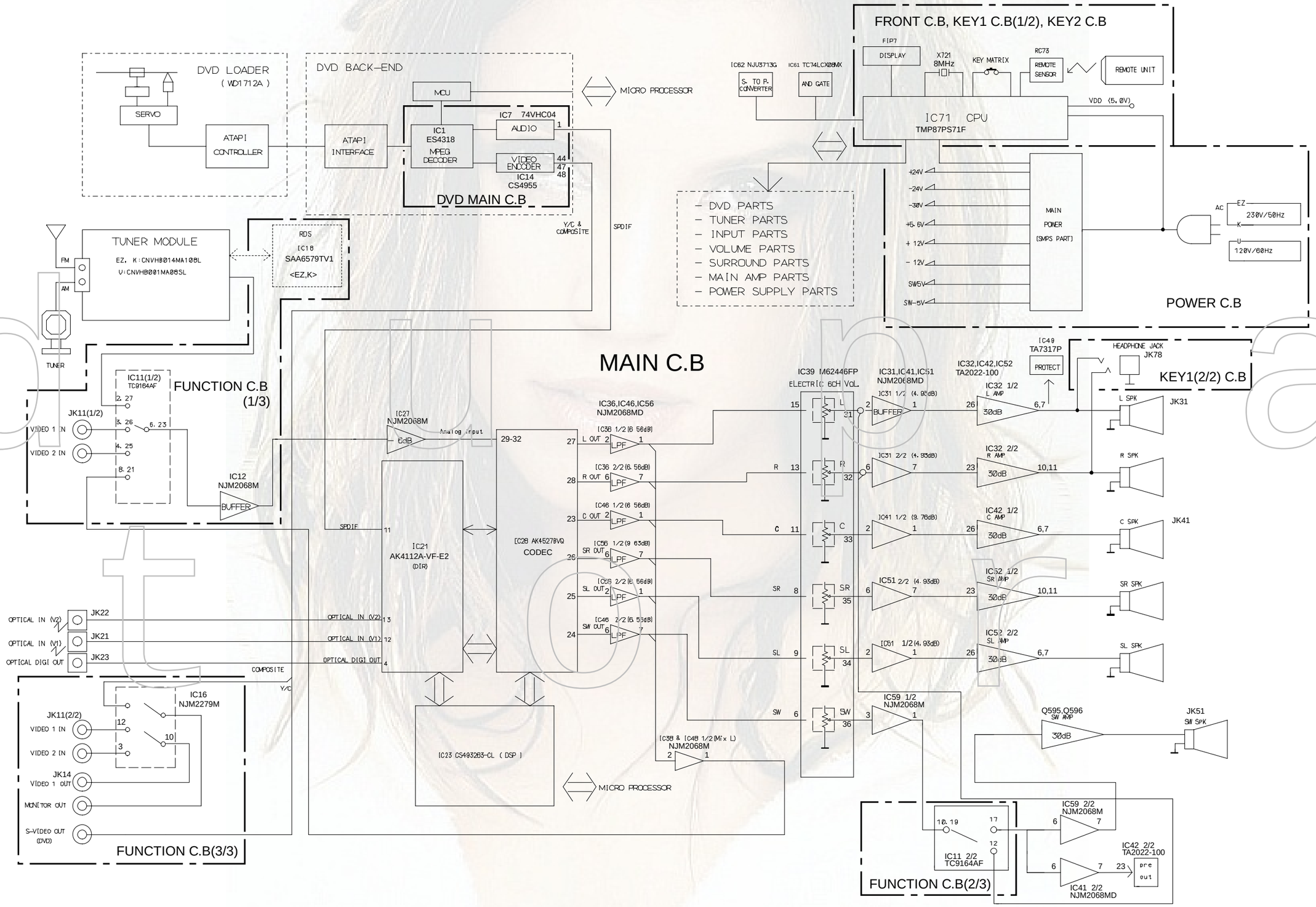
G D S

2SK2654

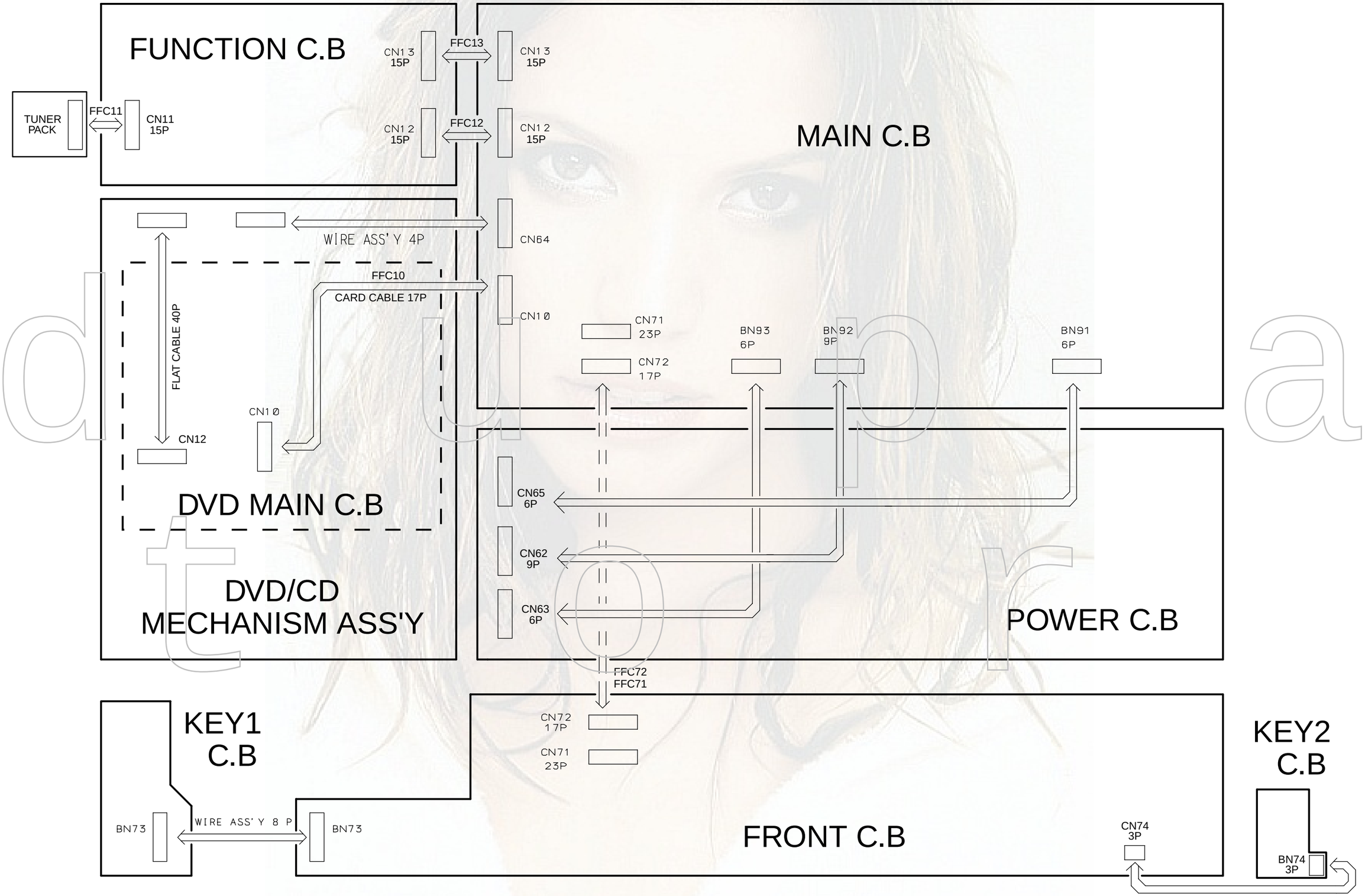


KRA102S
KRC102S
KRC114S
KTD1304

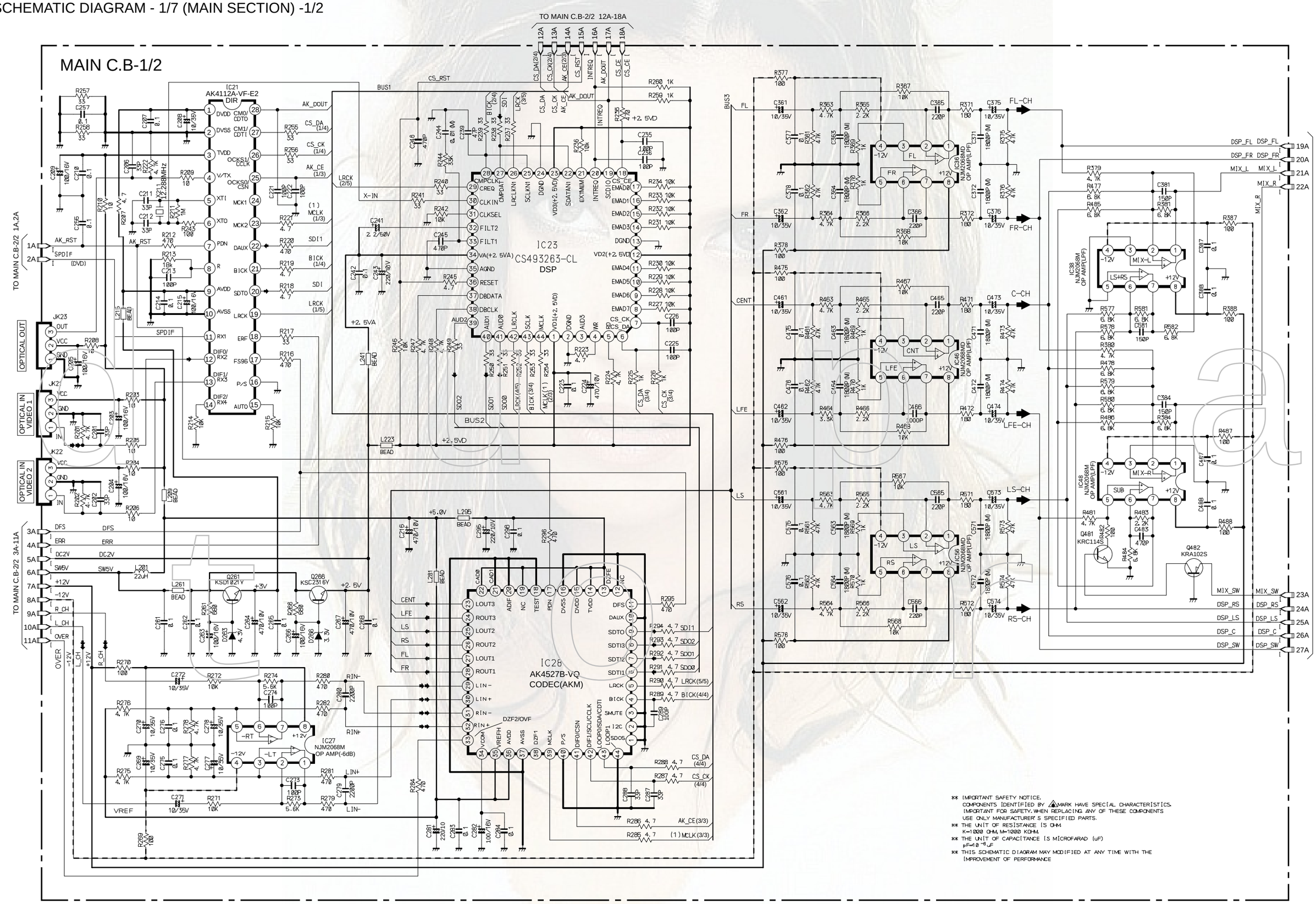
BLOCK DIAGRAM -1/1 (OVERALL SECTION)



WIRE HARNESS DIAGRAM-1/1



SCHEMATIC DIAGRAM - 1/7 (MAIN SECTION) -1/2



SCHEMATIC DIAGRAM - 2/7 (MAIN SECTION) -2/2

MAIN C.B-2/2

TO MAIN C.B-1/2 1A-27A

TO FUNCTION C.B CN12 VIA FFC12

TO FUNCTION C.B CN13 VIA FFC13

TO POWER C.B CN62

TO POWER C.B CN63

TO POWER C.B CN65

TO DVD/CD MECHANISM

TO DVD MAIN C.B CN10 VIA FFC10

TO FRONT C.B CN71 VIA FFC71

TO FRONT C.B CN72 VIA FFC72

IC32 TA2022-100 CLASS-T DIGITAL AUDIO AMP

IC42 TA2022-100 CLASS-T DIGITAL AUDIO AMP

IC52 TA2022-100 CLASS-T DIGITAL AUDIO AMP

IC61 74LCX08MX OP AMP(AND GATE)

IC39 M62446FP

IC62 NJU7130

IC49 TA7317P

IC51 NJM2068MD OP AMP(BUFFER)

IC41 NJM2068MD OP AMP(BUFFER)

EXPANDER (S. TO P. CONVERTER)

PROTECTOR

VOLUME (ELECTRIC 6CH VOL)

Q595,Q596 SW AMP

OUTPUT OFFSET VOLTAGE ADJUSTMENT

NO	PIN	ADJUST FOR	ADJUSTMENT
JK31	3, 4	0mV	VR31
	1, 2		VR32
	1, 3		VR41
JK41	2, 4	(-10mV TO +10mV)	VR42
	5, 7		VR51
	6, 8		VR52

FRONT SPEAKERS IMP: 6Ω

CENTER SPEAKER IMP: 6Ω

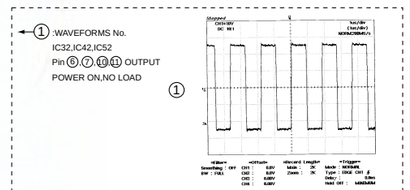
SUB WOOFER IMP: 6Ω

SURROUND SPEAKERS IMP: 6Ω

SUB WOOFER

※ IMPORTANT SAFETY NOTICE
COMPONENTS IDENTIFIED BY ⚠ MARK HAVE SPECIAL CHARACTERISTICS.
IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS
USE ONLY MANUFACTURER'S SPECIFIED PARTS
※ THE UNIT OF RESISTANCE IS OHM
K=1000 OHM, M=1000 KOHM
※ THE UNIT OF CAPACITANCE IS MICROFARAD (uF)
pF=10⁻⁶uF
※ THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WITH THE IMPROVEMENT OF PERFORMANCE

① :WAVEFORMS No.
IC32,IC42,IC52
Pin ⑥ ⑦ ⑩ ⑪ OUTPUT
POWER ON,NO LOAD



WIRING - 1/8 (MAIN C.B - 1/2)

MAIN C.B

JK51 SUB WOOFER

JK23 OPTICAL OUT

JK21 OPTICAL IN VIDEO1

JK22 OPTICAL IN VIDEO2

JK31 FRONT SPEAKERS IMP:6Ω — L+ L- R- R+

JK41 CENTER SPEAKER IMP:6Ω — + - | SUB WOOFER IMP:6Ω — + - | SURROUND SPEAKERS IMP:6Ω — LS+ LS- RS+ RS-

TO FUNCTION C.B CN13 — FFC13

TO FUNCTION C.B CN12 — FFC12

TO DVD MECHANISM — RED BLK BLK BLK

TO DVD MECHANISM — FFC10

CN71 — FFC71 — TO FRONT C.B CN71

CN72 — FFC72 — TO FRONT C.B CN72

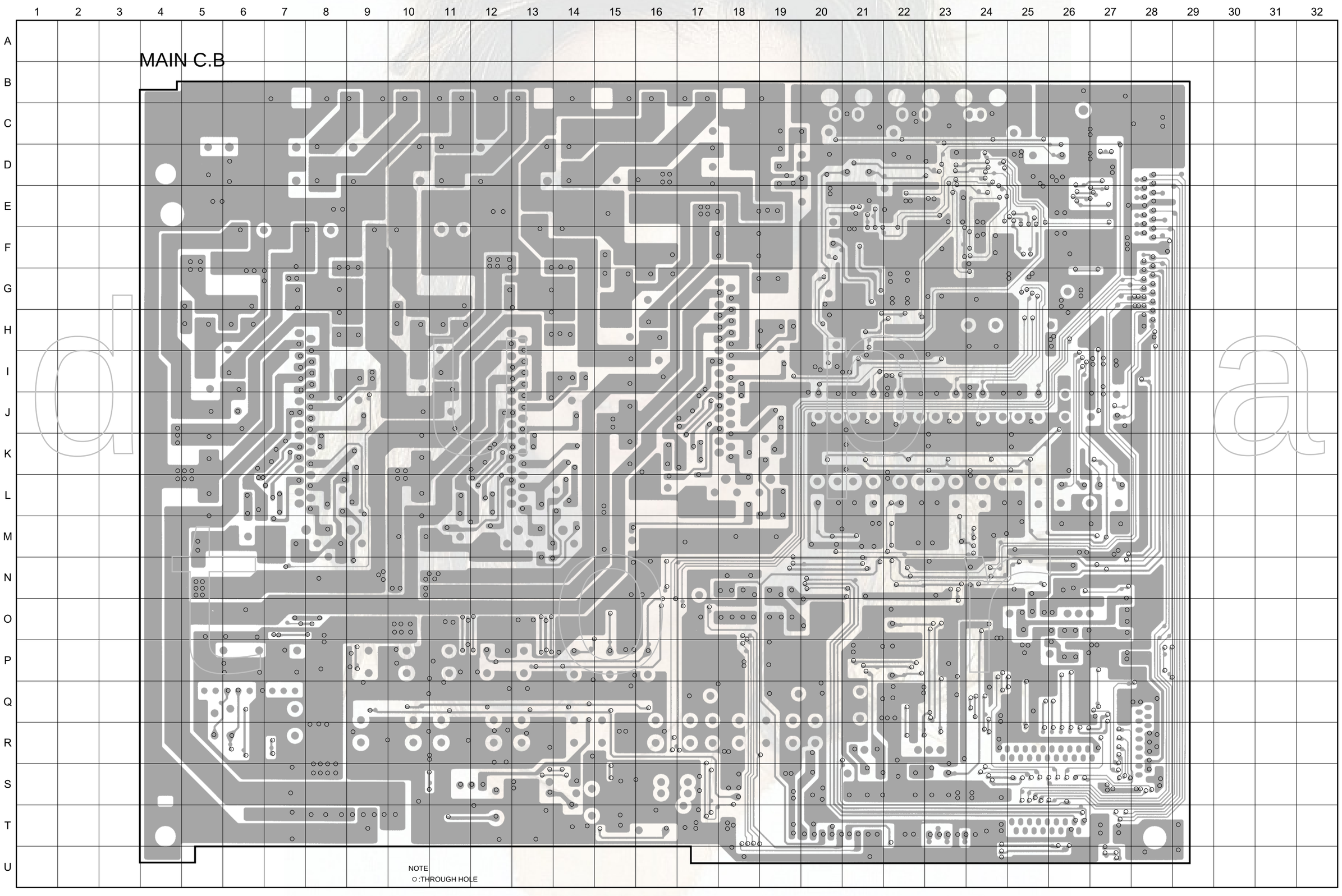
BN93 — TO POWER C.B CN63

BN92 — TO POWER C.B CN62

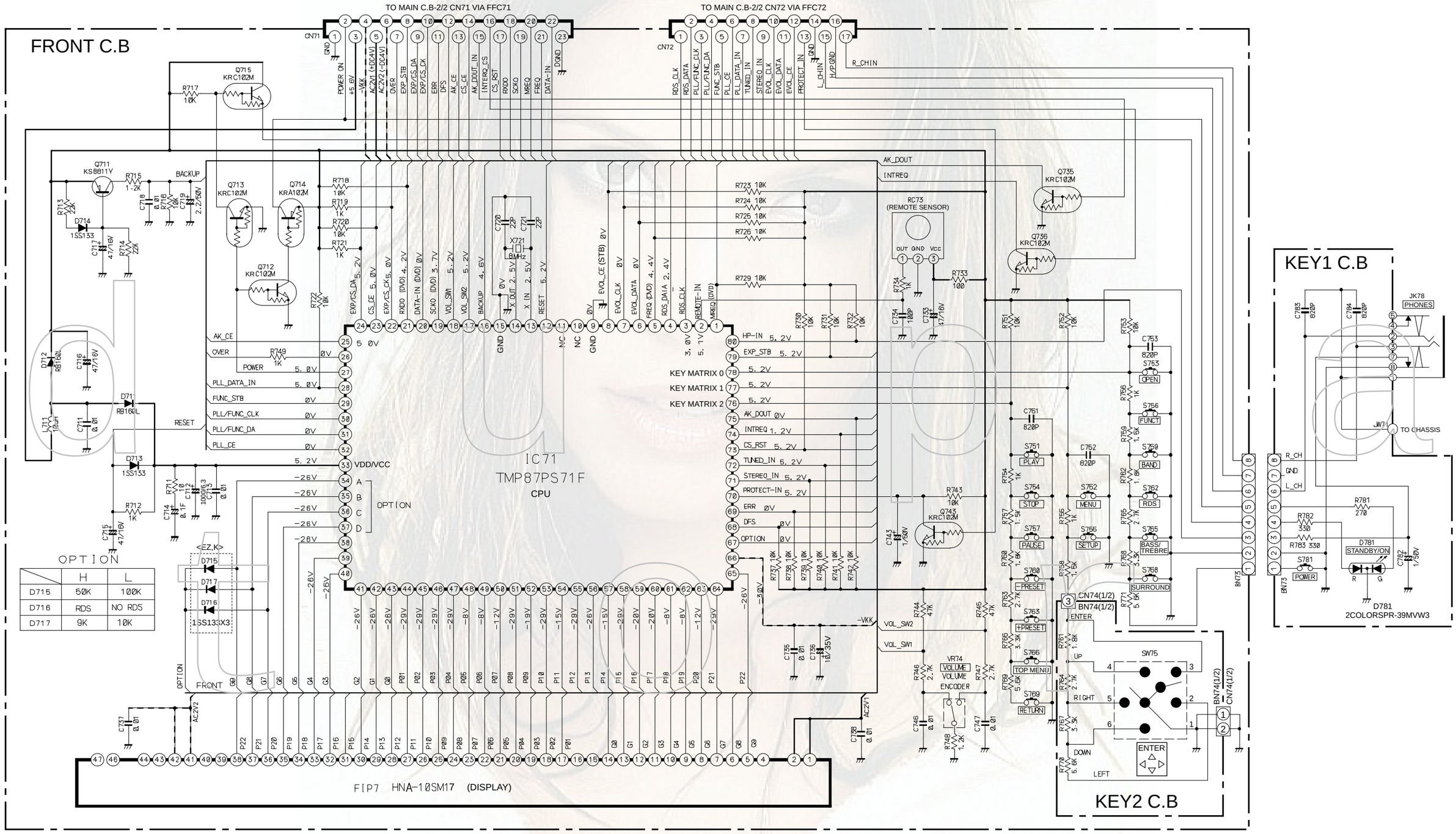
BN91 — TO POWER C.B CN65

NOTE
○ :THROUGH HOLE

WIRING - 2/8 (MAIN C.B - 2/2)

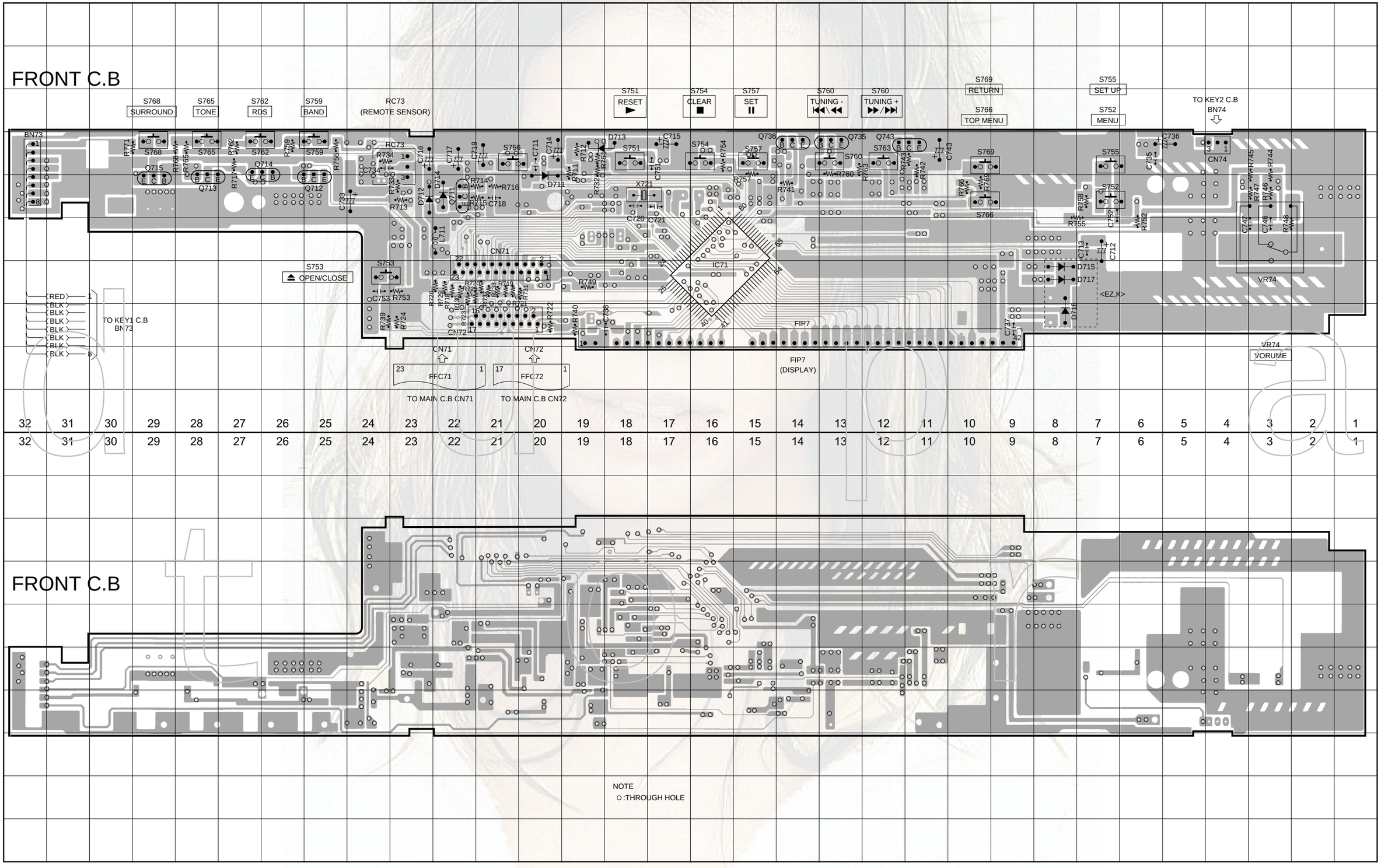


SCHEMATIC DIAGRAM - 3/7 (FRONT/KEY1/KEY2 SECTION)



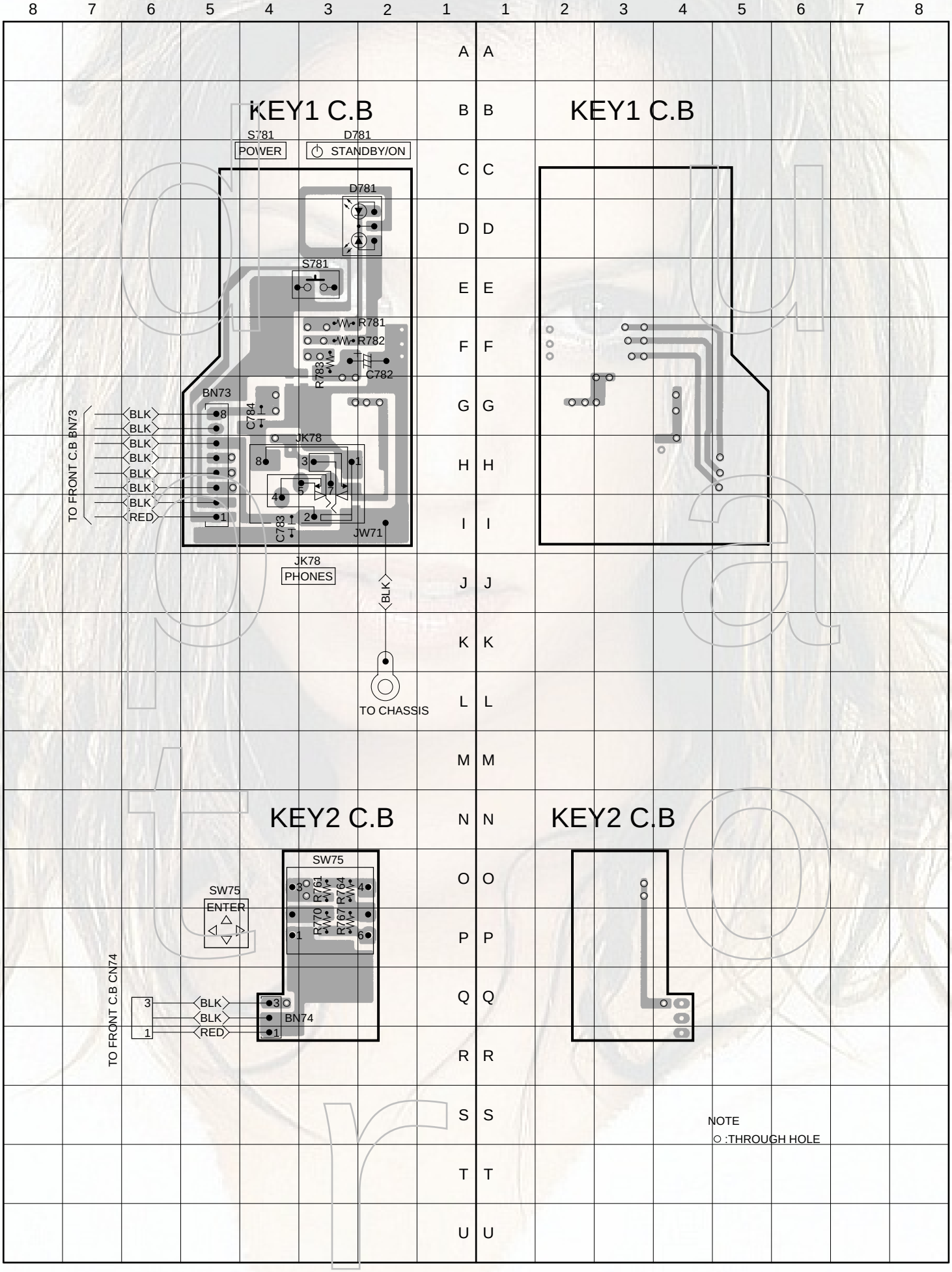
** IMPORTANT SAFETY NOTICE.
COMPONENTS IDENTIFIED BY MARK HAVE SPECIAL CHARACTERISTICS.
IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS
USE ONLY MANUFACTURER'S SPECIFIED PARTS.
** THE UNIT OF RESISTANCE IS OHM.
K=1000 OHM, M=1000 KOHM.
** THE UNIT OF CAPACITANCE IS MICROFARAD (uF)
pF=10^-6 uF
** THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WITH THE
IMPROVEMENT OF PERFORMANCE

WIRING - 3/8 (FRONT C.B)

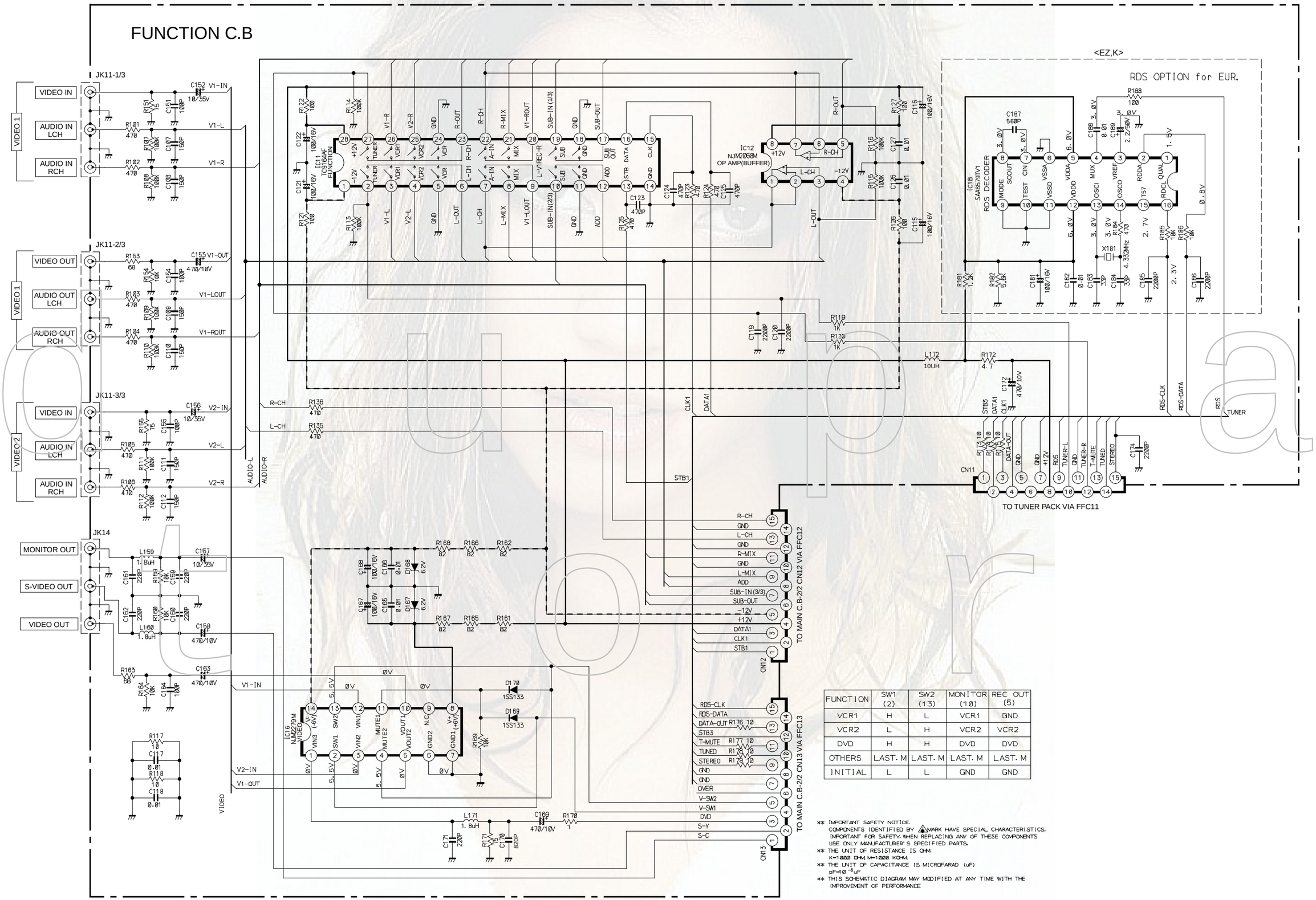


NOTE
○:THROUGH HOLE

WIRING - 4/8 (KEY1 C.B, KEY2 C.B)



SCHEMATIC DIAGRAM - 4/7 (FUNCTION SECTION)

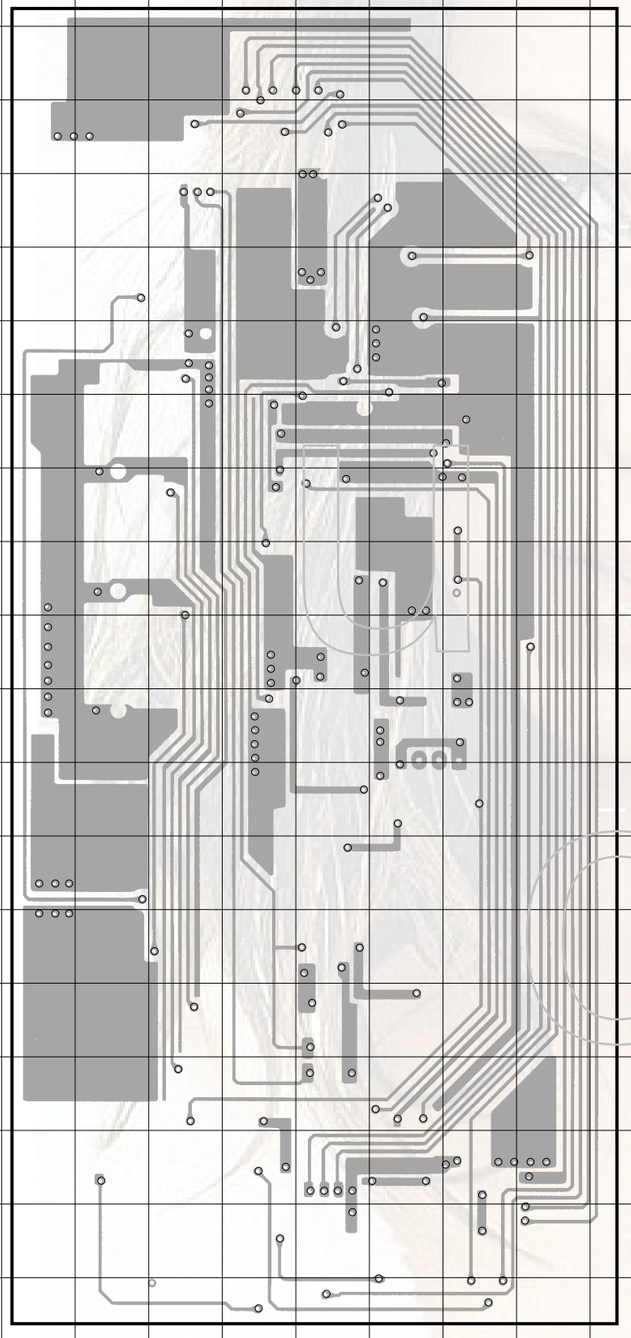


FUNCTION	SW1 (2)	SW2 (13)	MONITOR (10)	REC OUT (5)
VCR1	H	L	VCR1	GND
VCR2	L	H	VCR2	VCR2
DVD	H	H	DVD	DVD
OTHERS	LAST. M	LAST. M	LAST. M	LAST. M
INITIAL	L	L	GND	GND

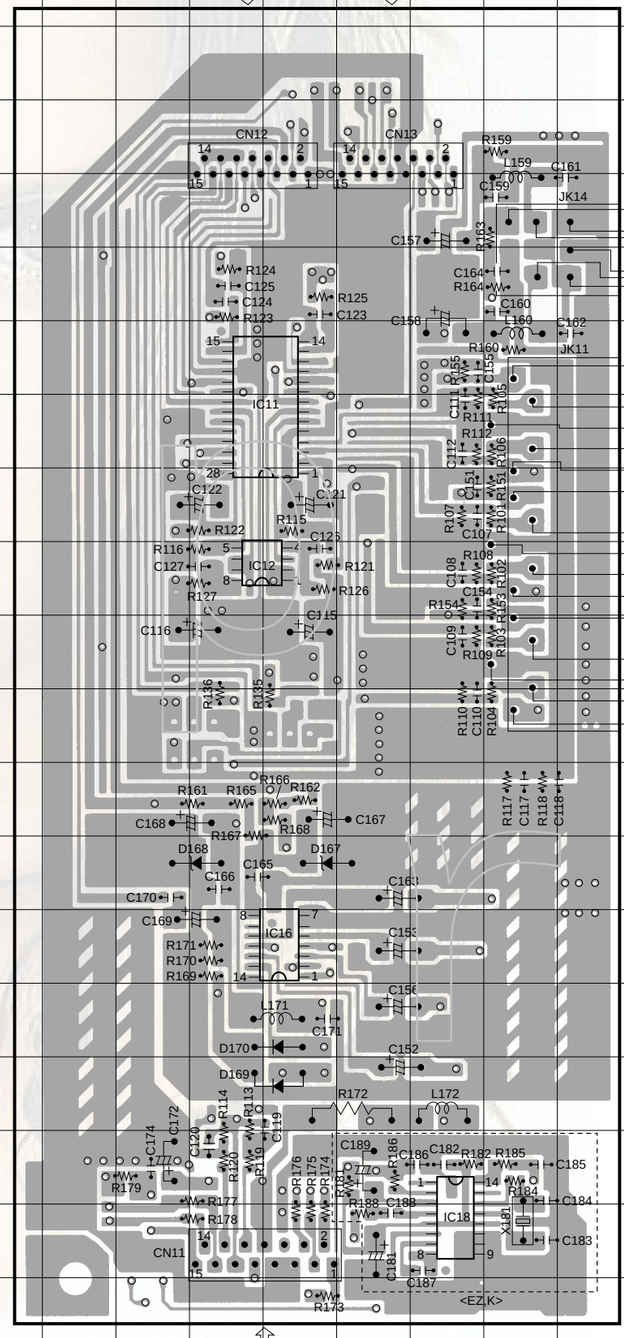
** IMPORTANT SAFETY NOTICE.
COMPONENTS IDENTIFIED BY ⚠ MARK HAVE SPECIAL CHARACTERISTICS.
IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS
USE ONLY MANUFACTURER'S SPECIFIED PARTS.
** THE UNIT OF RESISTANCE IS OHM.
K=1000 OHM, M=1000 KOHM.
** THE UNIT OF CAPACITANCE IS MICROFARAD (uF)
pF=10^{-6}uF
** THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WITH THE IMPROVEMENT OF PERFORMANCE

WIRING - 5/8 (FUNCTION C.B)

FUNCTION C.B

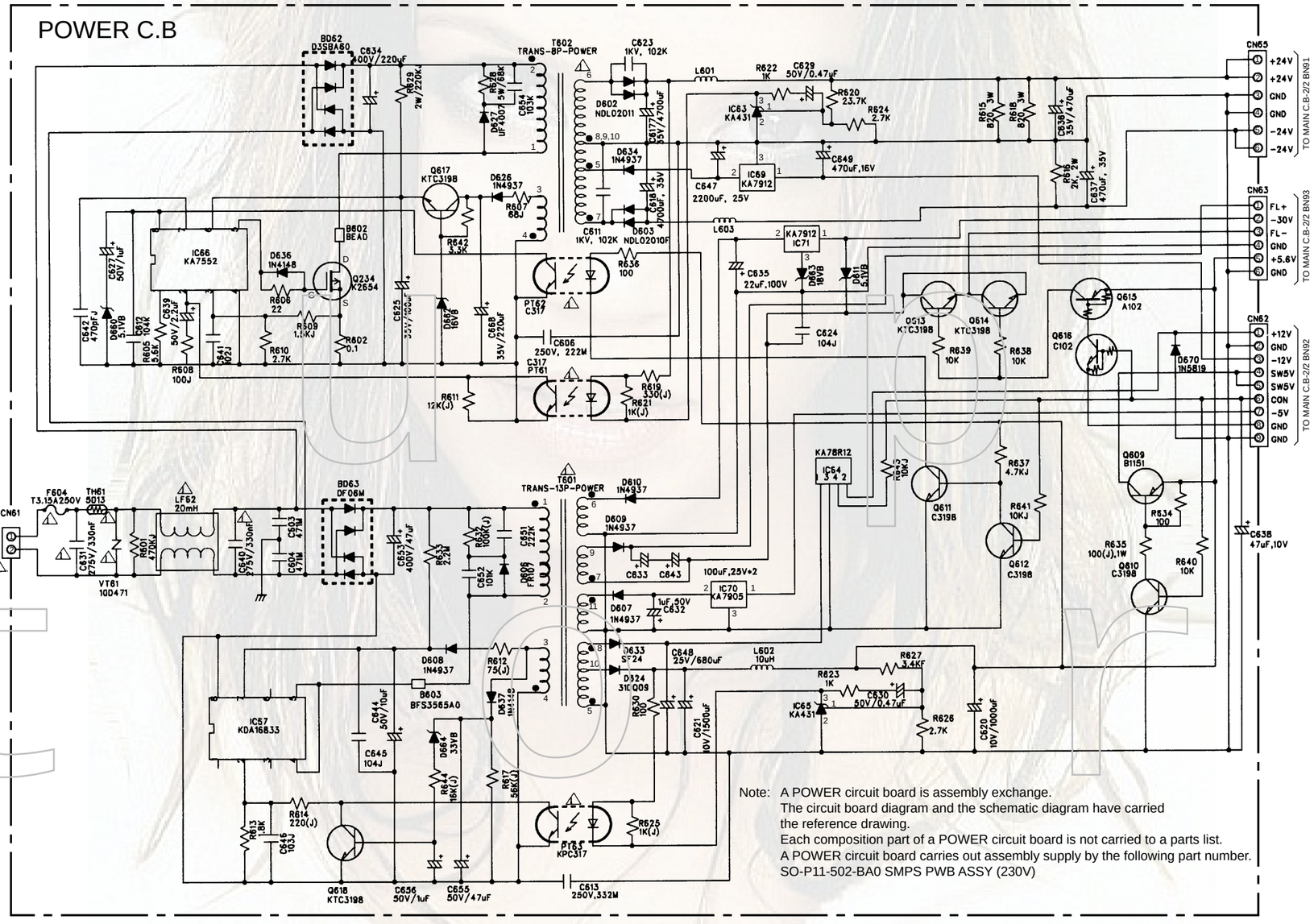


FUNCTION C.B



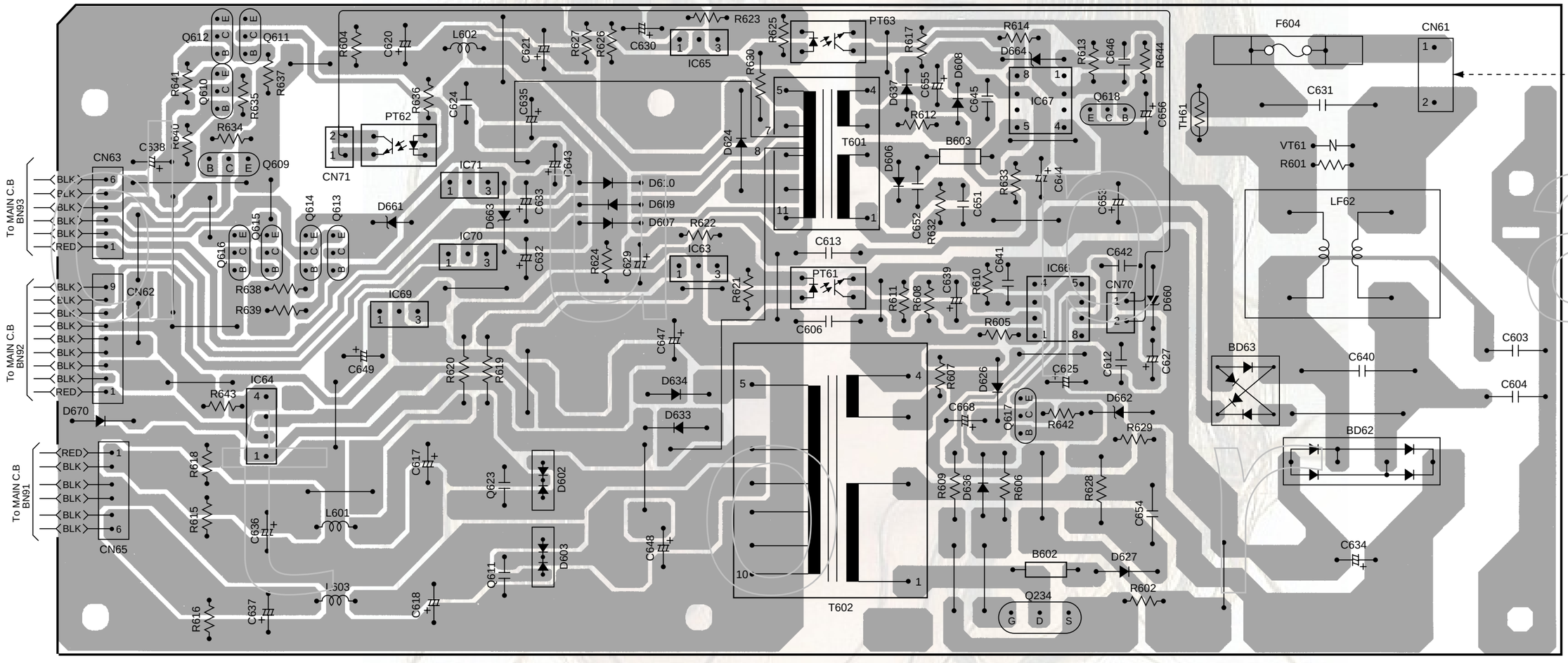
NOTE
○:THROUGH HOLE

SCHEMATIC DIAGRAM - 5/7 (POWER SECTION) -Reference Drawing- <EZ, K>



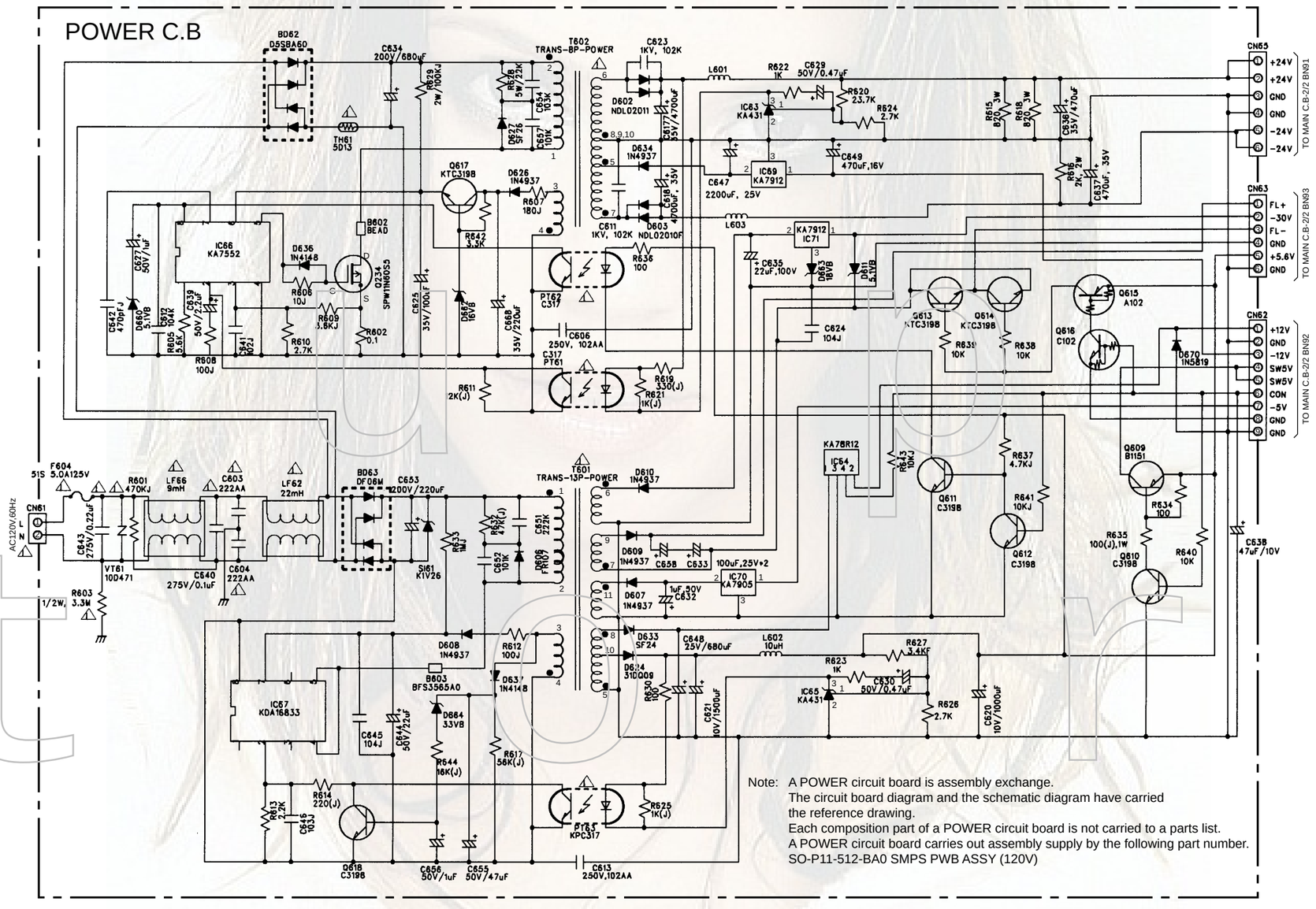
Note: A POWER circuit board is assembly exchange.
The circuit board diagram and the schematic diagram have carried the reference drawing.
Each composition part of a POWER circuit board is not carried to a parts list.
A POWER circuit board carries out assembly supply by the following part number.
SO-P11-502-BA0 SMPS PWB ASSY (230V)

POWER C.B



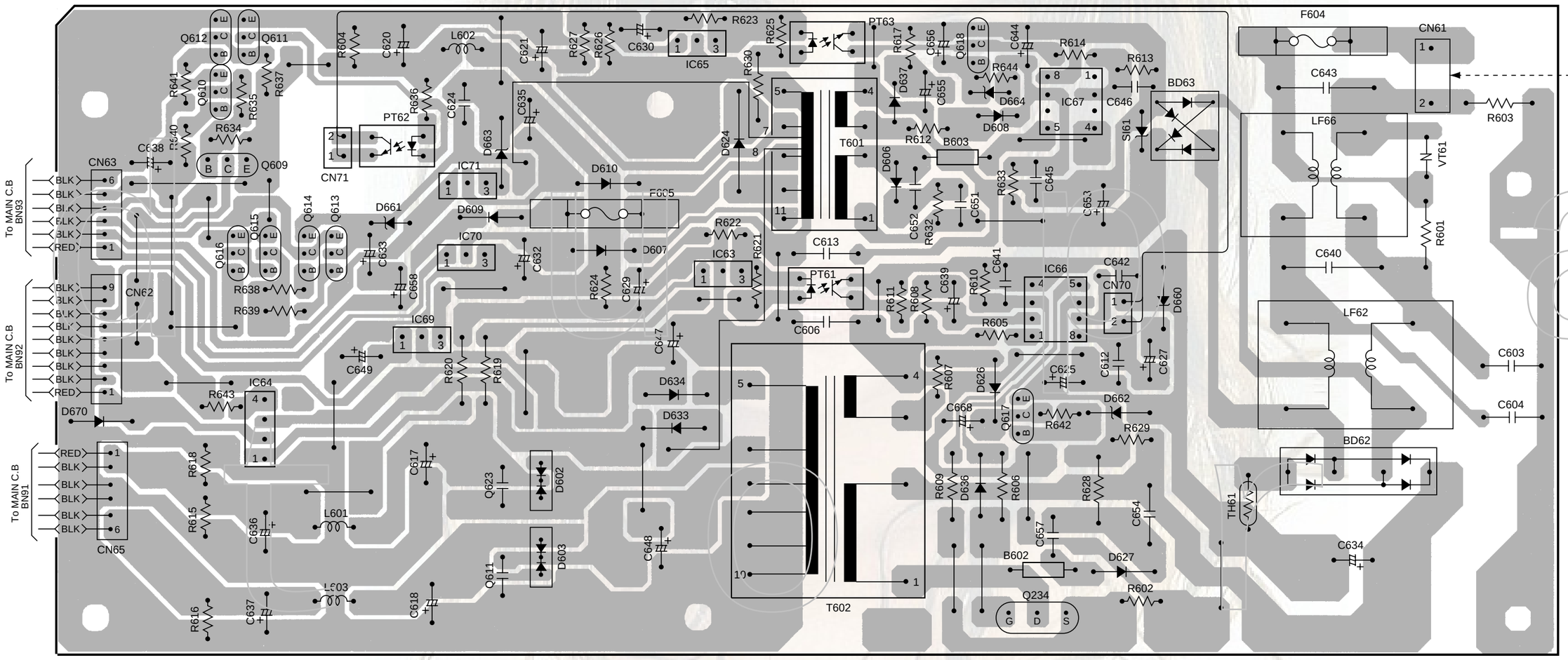
Note: A POWER circuit board is assembly exchange.
The circuit board diagram and the schematic diagram have carried the reference drawing.
Each composition part of a POWER circuit board is not carried to a parts list.
A POWER circuit board carries out assembly supply by the following part number.
SO-P11-502-BA0 SMPS PWB ASSY (230V)

SCHEMATIC DIAGRAM - 6/7 (POWER SECTION) -Reference Drawing- <U>



Note: A POWER circuit board is assembly exchange.
The circuit board diagram and the schematic diagram have carried the reference drawing.
Each composition part of a POWER circuit board is not carried to a parts list.
A POWER circuit board carries out assembly supply by the following part number.
SO-P11-512-BA0 SMPS PWB ASSY (120V)

POWER C.B



Note: A POWER circuit board is assembly exchange.
The circuit board diagram and the schematic diagram have carried the reference drawing.
Each composition part of a POWER circuit board is not carried to a parts list.
A POWER circuit board carries out assembly supply by the following part number.
SO-P11-512-BA0 SMPS PWB ASSY (120V)

DVD MAIN C.B

TO DVD MECHANISM VIA FFC1

CN12

IC01
ES4318F
DVD MPEG DECODER

IC3
FLASH_ROM
HY29F400BT90
FLASH MEMORY(4M)

IC13
BR24C16F
EEPROM(16K)

IC10,IC11
HY57V161610DTC8
SDRAM

IC7
74VHC04M
INVERTER

IC8,IC9
ADJ REGULATOR
RC1117ST

IC14
CS4955
VIDEO ENCODER

X101
27MHz

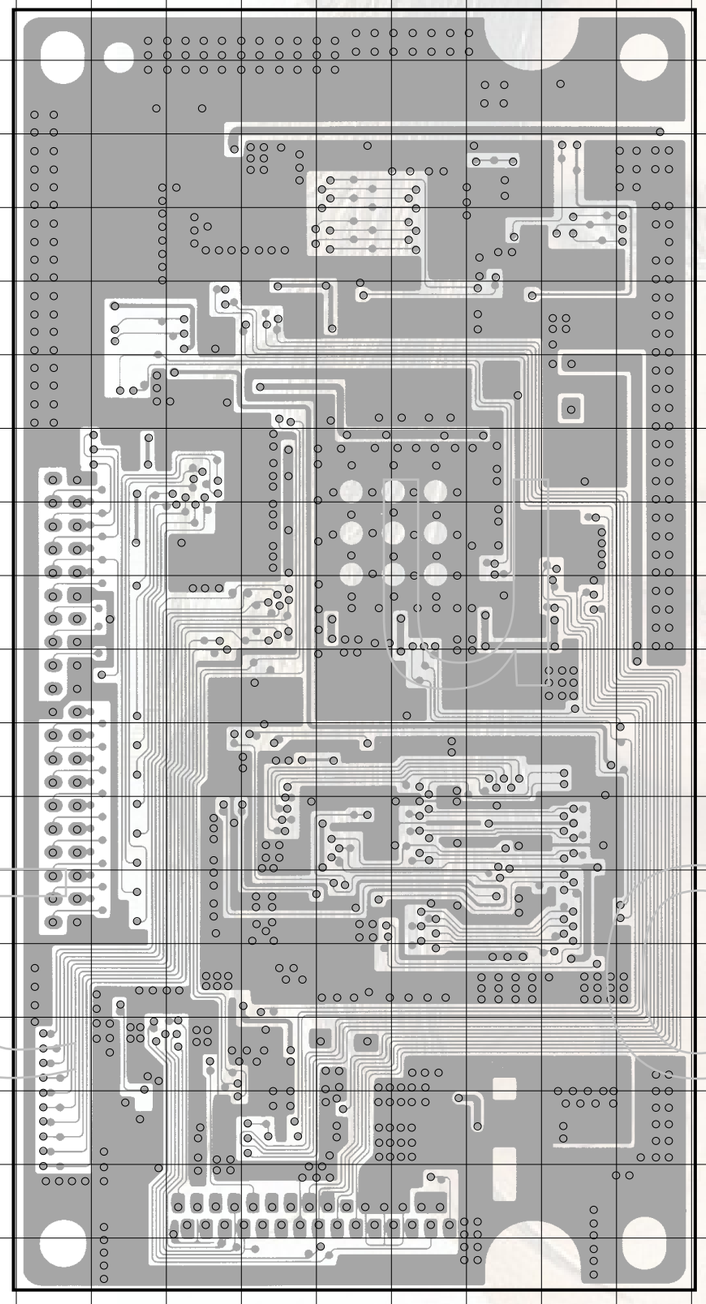
SPDIF | CLK SOURCE
1(R251) | DCLK INPUT

TWS	TSD1	TSD0	FERQ
1 (R120)	1 (R107)	1 (R262)	108.0 MHz

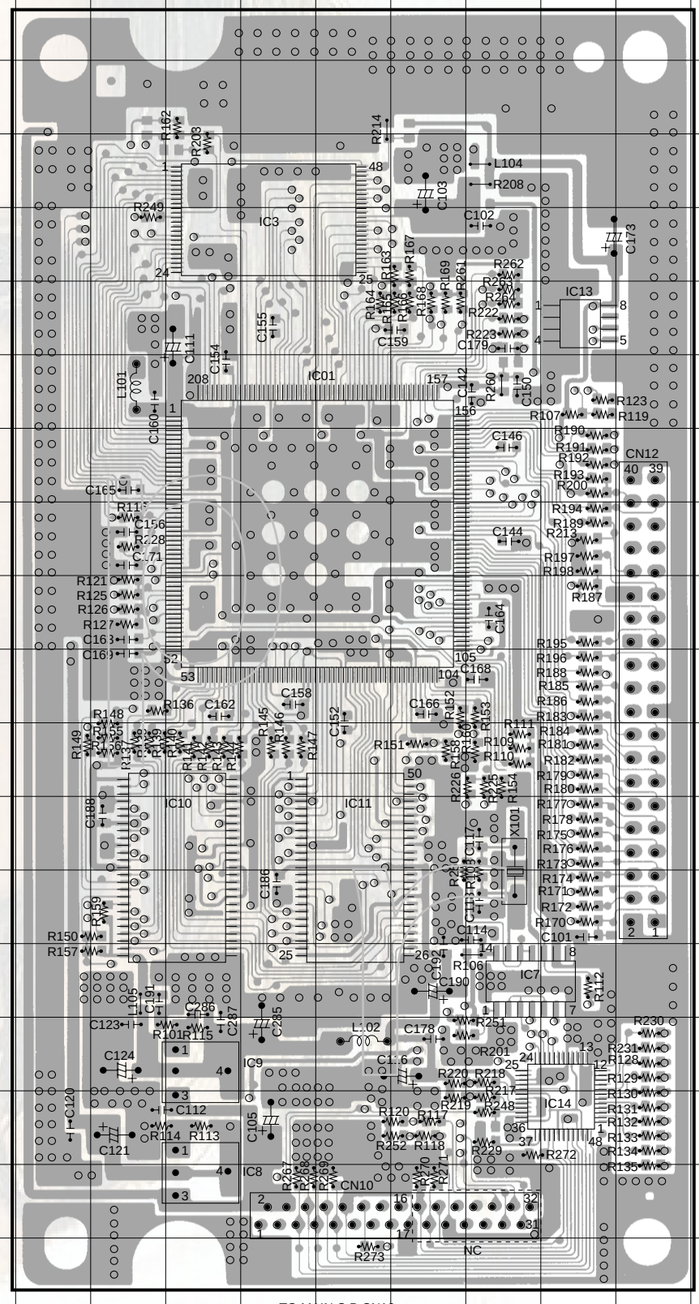
SPDIF
COAXIAL
OPTICAL

CN10
TO MAIN C.B CN10

DVD MAIN C.B

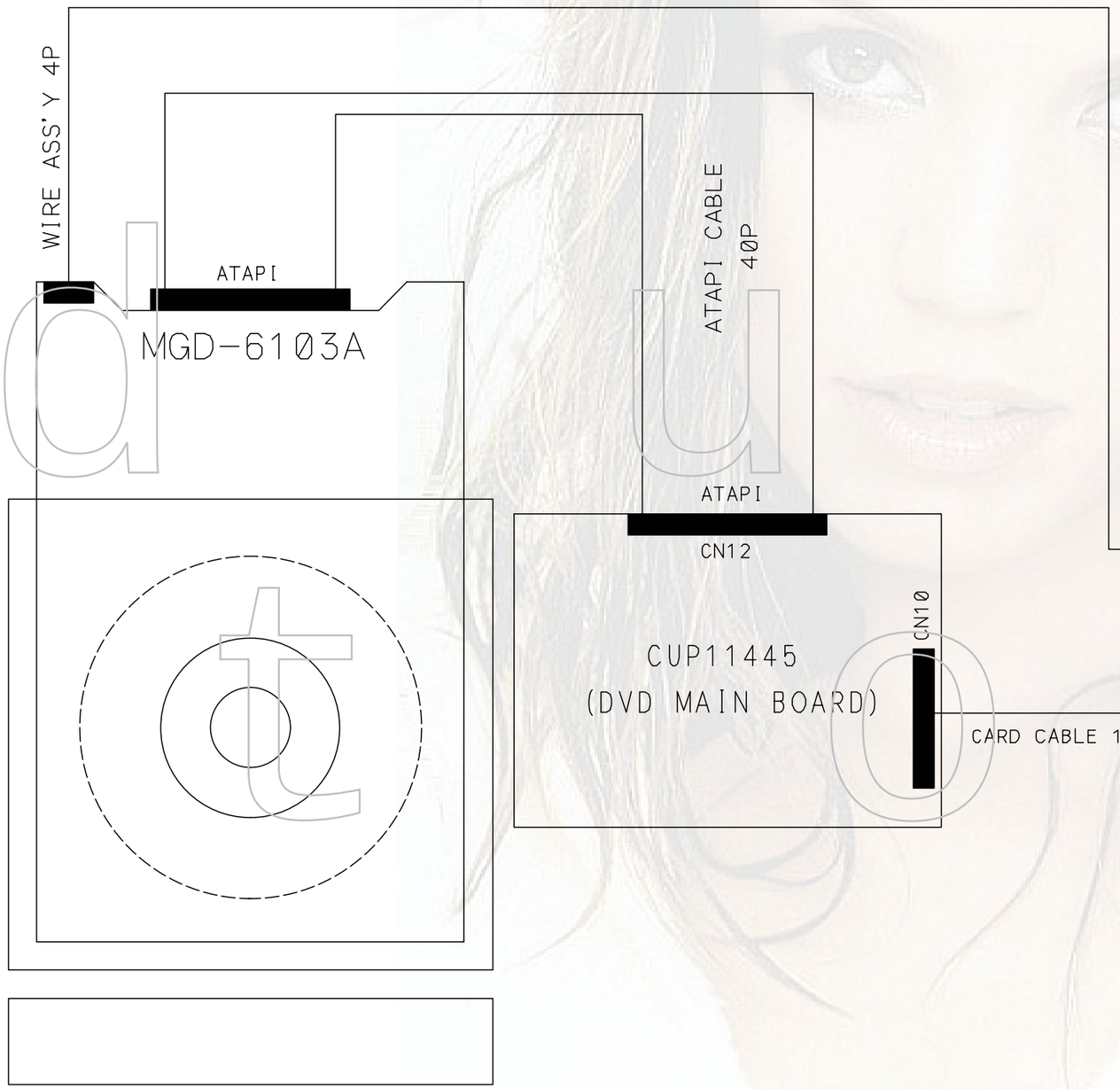


DVD MAIN C.B



NOTE
○:THROUGH HOLE

DVD SECTION WIRING DIAGRAM



PIN DISCRIPTION

CN10

1	RESET
2	5VAD
3	OPTICAL
4	5VAD
5	Y
6	GND
7	C
8	GND
9	CVBS
10	GND
11	RXD0
12	A_MUTE
13	SCK0
14	M_REQ
15	F_REQ
16	TXD0
17	GND

CN12

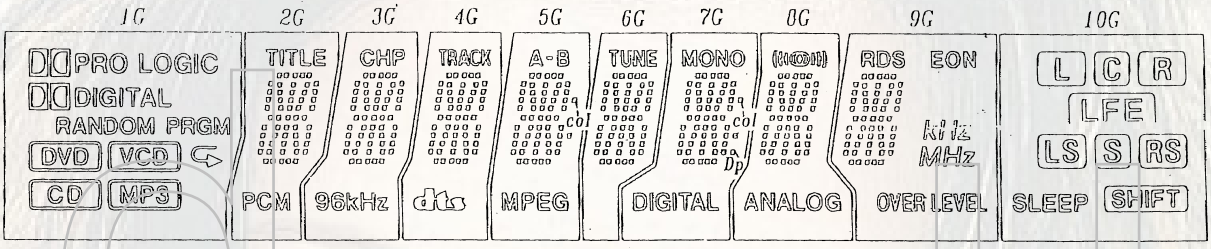
1	RESET
2	GND
3	D7
4	D8
5	D6
6	D9
7	D5
8	D10
9	D4
10	D11
11	D3
12	D12
13	D2
14	D13
15	D1
16	D14
17	D0
18	D15
19	GND
20	KEY
21	DRQ
22	GND
23	IOW
24	GND
25	IOR
26	GND
27	IOCHROY
28	BALE
29	DACK
30	GND
31	IRQ14
32	IOCS16
33	A1
34	RESERVED
35	A0
36	A2
37	CS0
38	CS1
39	ACTIVITY
40	GND

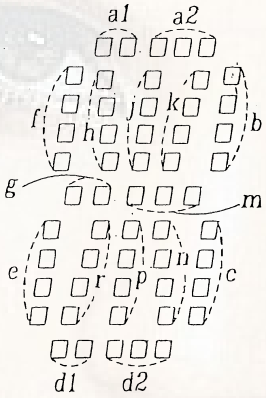
CN64

1	12V
2	GND
3	GND
4	5VAD

LCD DISPLAY - 1/1

GRID ASSIGHNMENT





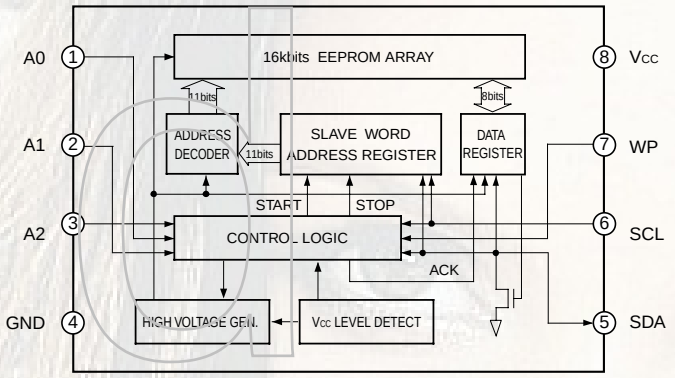
(2G-9G)

ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G
P1	PRO LOGIC	TITLE	CHP	TRACK	A-	TUNE	MONO	((●))	RDS	L
P2	DIGITAL	—	—	—	B	—	—	—	EON	C
P3	RANDOM	f	f	f	f	f	f	f	f	R
P4	PRGM	a1	a1	a1	a1	a1	a1	a1	a1	LFE
P5	DVD	a2	a2	a2	a2	a2	a2	a2	a2	LS
P6	VCD	h	h	h	h	h	h	h	h	S
P7	CD	j	j	j	j	j	j	j	j	RS
P8	MP3	k	k	k	k	k	k	k	k	SLEEP
P9	⟲	b	b	b	b	b	b	b	b	SHIFT
P10	—	m	m	m	m	m	m	m	m	—
P11	—	g	g	g	g	g	g	g	g	—
P12	—	e	e	e	e	e	e	e	e	—
P13	—	r	r	r	r	r	r	r	r	—
P14	—	p	p	p	p	p	p	p	p	—
P15	—	n	n	n	n	n	n	n	n	—
P16	—	c	c	c	c	c	c	c	c	—
P17	—	d1	d1	d1	d1	d1	d1	d1	d1	—
P18	—	d2	d2	d2	d2	d2	d2	d2	d2	—
P19	—	—	—	—	col	—	col	—	kHz	—
P20	—	—	—	—	—	—	Dp	—	MHz	—
P21	—	—	—	—	—	—	—	—	OVER	—
P22	—	PCM	96kHz	dts	MPEG	—	DIGITAL	ANALOG	LEVEL	—

IC BLOCK DIAGRAM -1/4

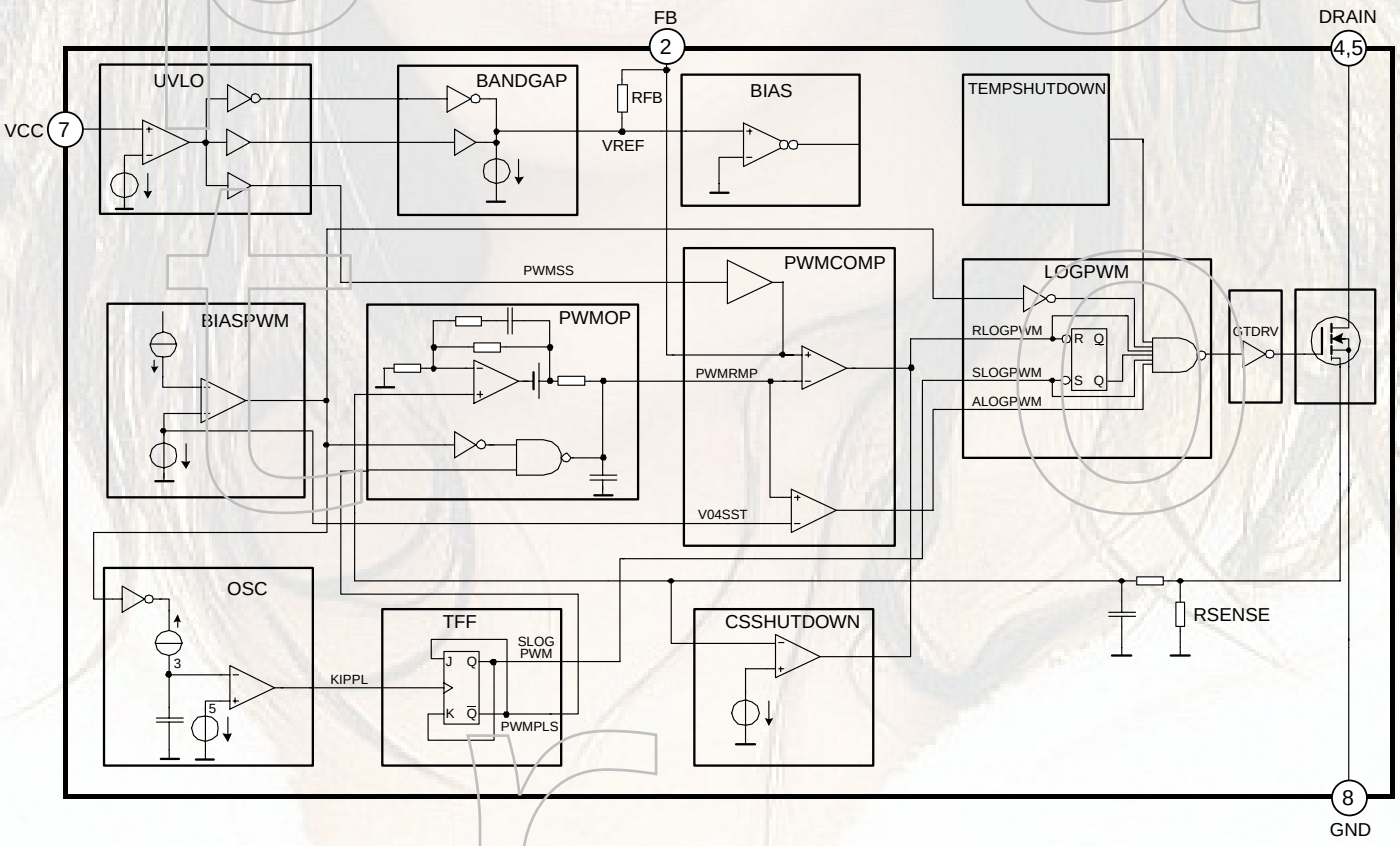
IC, BR24C16F



Pin name	I / O	Function
Vcc	-	Power supply
GND	-	Ground (0V)
A0, A1, A2	I	Out of use. Please connect to GND.
SCL	I	Serial clock input
SDA	I / O	Slave and word address, serial data input, serial data output *
WP	I	Wite protect pin

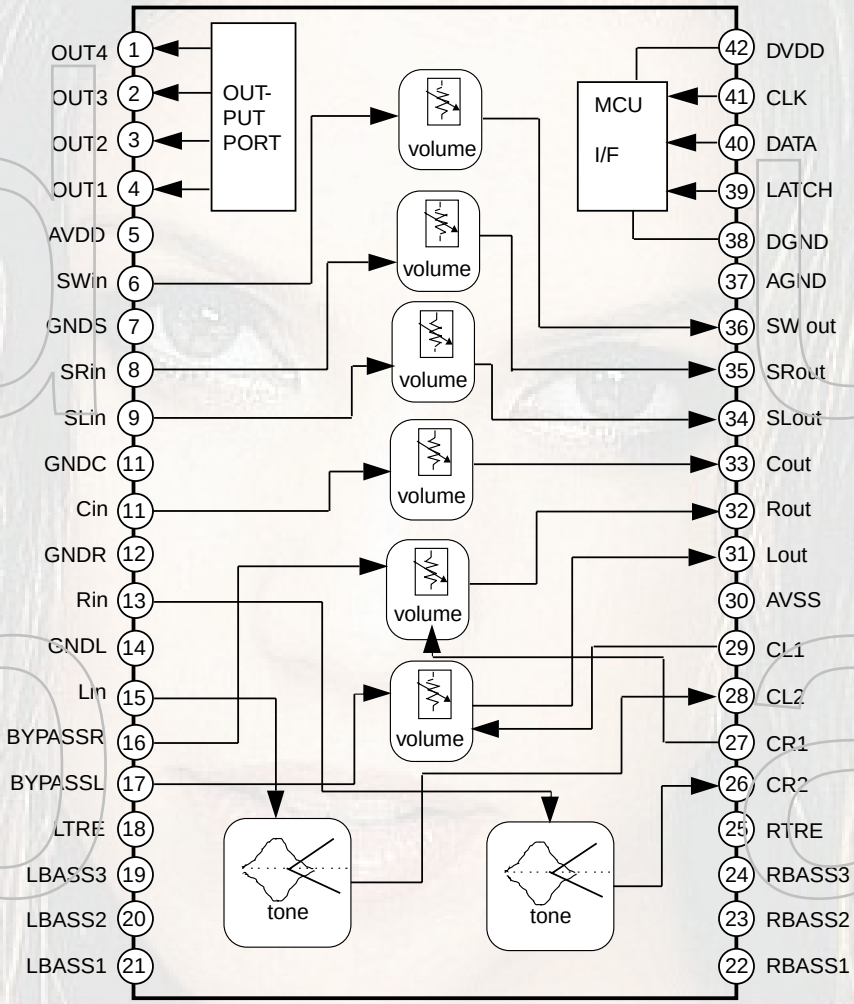
*An open drain output requires a pull-up resistor.

IC, KDA16833

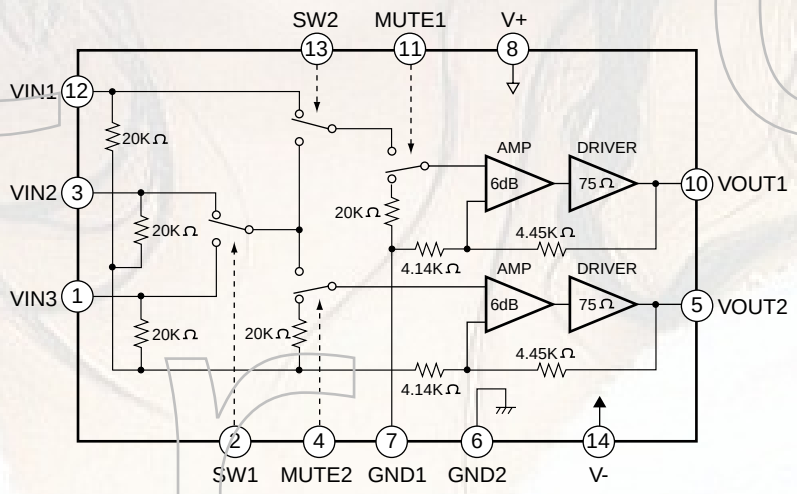


IC BLOCK DIAGRAM -2/4

IC, M62446FP

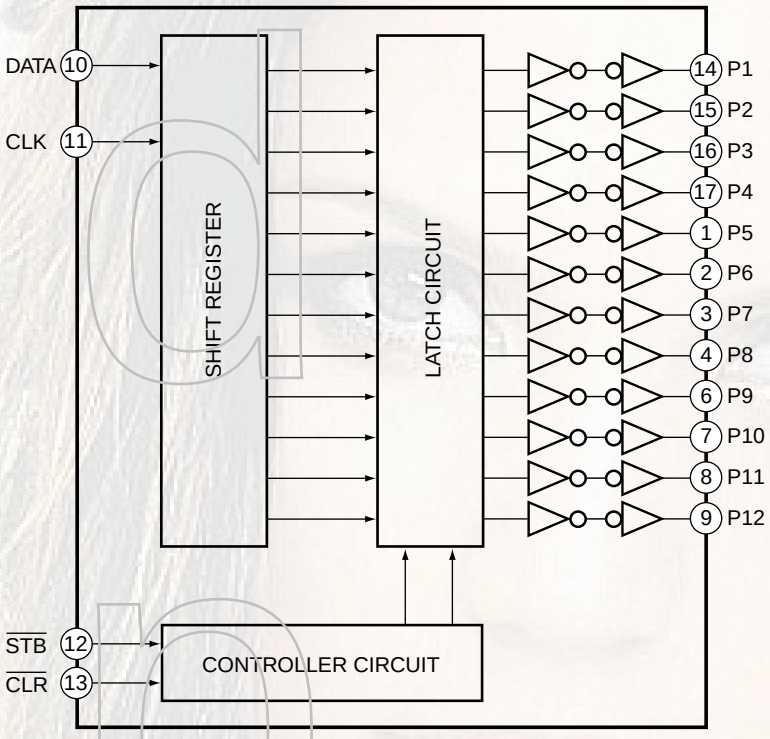


IC, NJM2279M



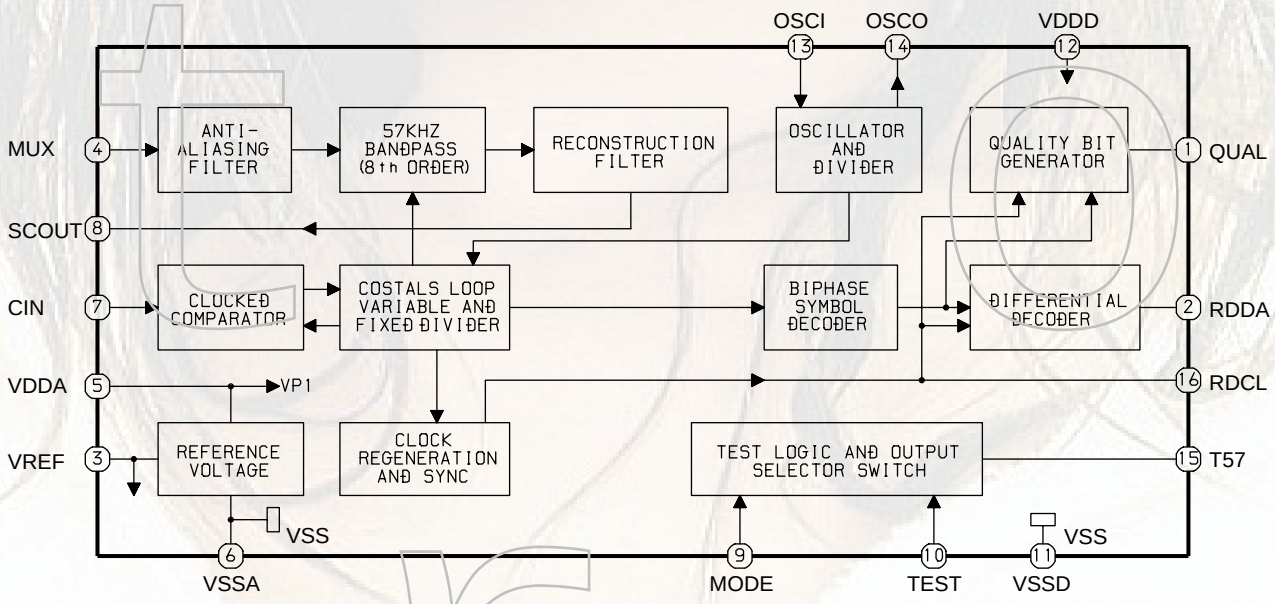
IC BLOCK DIAGRAM -3/4

IC, NJU3713G



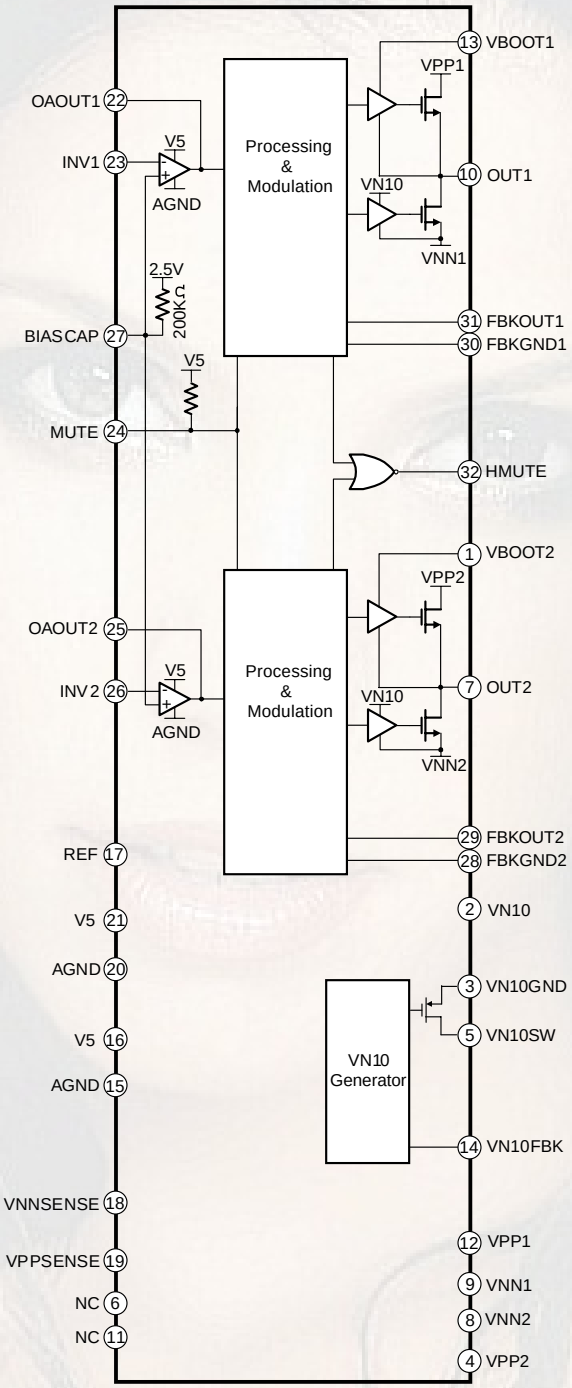
No.	SYMBOL	FUNCTION
1	P5	Parallel Converts Data Output Terminals
2	P6	
3	P7	
4	P8	
5	VSS	GND
6	P9	Parallel Converts Data Output Terminals
7	P10	
8	P11	
9	P12	
10	DATA	Serial Data Input Terminal
11	CLK	Clock Signal Input Terminal
12	$\overline{STB}$	Strove Signal Input Terminal
13	$\overline{CLR}$	Clear Signal Input Terminal
14	P1	Parallel Converts Data Output Terminals
15	P2	
16	P3	
17	P4	
18	VDD	Power Supply Terminal

IC, SAA6579TV1

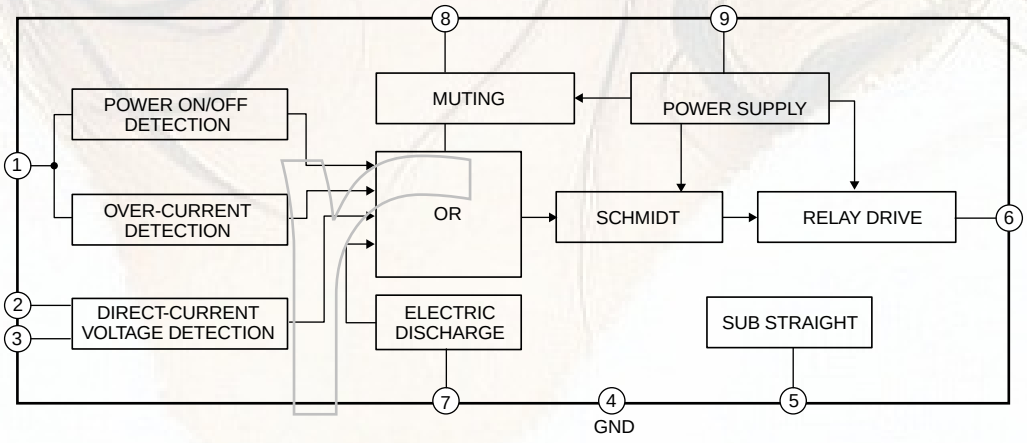


IC BLOCK DIAGRAM -4/4

IC, TA2022-100



IC, TA7317P



IC DESCRIPTION -1/9 (TA2022-100) -1/1

Pin No.	Pin Name	I/O	Description
1	VBOOT2	–	Bootstrap voltages for gate drive of high side MOSFET's
2	VN10	I	"Floating" supply input. Normally connected to the output of onboard VN10 buck converter. This voltage must be stable and referenced to VNN.
3	VN10GND	–	Power ground for onboard VN10 generator. Electrically tied to the TA2022 case.
4	VPP2	–	Positive power supply input pins.
5	VN10SW	O	Switching output voltage for onboard VN10 generator (buck converter).
6	NC	–	Not connected internally. May be connected to pin 7 without any loss of functionality or performance.
7	OUT2	O	Power amplifier outputs.
8	VNN2	–	Negative power supply inputs.
9	VNN1	–	
10	OUT1	O	Power amplifier outputs.
11	NC	–	Not connected internally. May be connected to pin 10 without any loss of functionality or performance.
12	VPP1	–	Positive power supply input pins.
13	VBOOT1	–	Bootstrap voltages for gate drive of high side MOSFET's
14	VN10FDBK		Feedback for onboard VN10 generator (nominally 11V above VNN)
15	AGND	–	Analog Ground.
16	V5	–	5 V power supply input.
17	REF	–	Used to set internal bias currents. The pin voltage is typically 1.1V.
18	VNNSENSE	I	Negative supply voltage sense input. This pin is used for both over and under voltage sensing for the VNN supply.
19	VPPSENSE	I	Positive supply voltage sense input. This pin is used for both over and under voltage sensing for the VPP supply.
20	AGND	–	Analog Ground.
21	V5	–	5 V power supply input.
22	OAOUT1	O	Outputs of Input Stage op amps.
23	INV1	I	Inverting inputs of Input Stage op amps.
24	MUTE	I	Logic input. A logic high puts the amplifier in mute mode. Ground pin if not used. Please refer to the section, Mute Control, in the Application Information.
25	OAOUT2	O	Outputs of Input Stage op amps.
26	INV2	I	Inverting inputs of Input Stage op amps.
27	BIASCAP		Bandgap reference times two (typically 2.5VDC). Used to set the common mode voltage for the input op amps. This pin is not capable of driving external circuitry.
28	FBKGND2	O	Output voltage differential feedback for channel 2.
29	FBKOUT2	O	
30	FBKGND1	O	Output voltage differential feedback for channel 1.
31	FBKOUT1	O	
32	HMUTE	O	Logic Output. A logic high indicates both amplifiers are muted, due to the mute pin state, or a "fault" such as an overcurrent, undervoltage, or overvoltage condition.

IC DESCRIPTION -2/9 (AK4527B-VQ) -1/2

Pin No.	Pin Name	I/O	Description
1	SDOS	I	SDTO Source Select Pin (Note 1). "L": Internal ADC output, "H": DAUX input
2	I2C	I	Control Mode Select Pin. "L": 3-wire Serial, "H": I²C Bus
3	SMUTE	I	Soft Mute Pin (Note 1). When this pin goes to "H", soft mute cycle is initialized. When returning to "L", the output mute releases.
4	BICK	I	Audio Serial Data Clock Pin
5	LRCK	I	Input Channel Clock Pin
6	SDTI1	I	DAC1 Audio Serial Data Input Pin
7	SDTI2	I	DAC2 Audio Serial Data Input Pin
8	SDTI3	I	DAC3 Audio Serial Data Input Pin
9	SDTO	O	Audio Serial Data Output Pin
10	DAUX	I	AUX Audio Serial Data Input Pin
11	DFS	I	Double Speed Sampling Mode Pin (Note 1). "L": Normal Speed, "H": Double Speed
12	NC	–	No Connect. No internal bonding.
13	DZFE	I	Zero Input Detect Enable Pin. "L": mode 7 (disable) at parallel mode, zero detect mode is selectable by DZFM2-0 bits at serial mode. “H”: mode 0 (DZF1 is AND of all six channels)
14	TVDD	–	Output Buffer Power Supply Pin, 2.7 V ~ 5.5 V
15	DVDD	–	Digital Power Supply Pin, 4.5 V ~ 5.5 V
16	DVSS	–	Digital Ground Pin, 0V
17	PDN	I	Power-Down & Reset Pin. When "L", the AK4527B is powered-down and the control registers are reset to default state. If the state of P/S or CAD0-1 changes, then the AK4527B must be reset by PDN.
18	TST	I	Test Pin. This pin should be connected to DVSS.
19	NC	–	No Connect. No internal bonding.
20	ADIF	I	Analog Input Format Select Pin. “H”: Full-differential input, "L": Single-ended input
21	CAD1	I	Chip Address 1 Pin
22	CAD0	I	Chip Address 0 Pin
23	LOUT3	O	DAC3 Lch Analog Output Pin
24	ROUT3	O	DAC3 Rch Analog Output Pin
25	LOUT2	O	DAC2 Lch Analog Output Pin
26	ROUT2	O	DAC2 Rch Analog Output Pin
27	LOUT1	O	DAC1 Lch Analog Output Pin
28	ROUT1	O	DAC1 Rch Analog Output Pin
29	LIN-	I	Lch Analog Negative Input Pin
30	LIN+	I	Lch Analog Positive Input Pin
31	RIN-	I	Rch Analog Negative Input Pin
32	RIN+	I	Rch Analog Positive Input Pin
33	DZF2	O	Zero Input Detect 2 Pin (Note 2). When the input data of the group 1 follow total 8192 LRCK cycles with "0" input data, this pin goes to "H".
	OVF		Analog Input Overflow Detect Pin (Note 3). This pin goes to "H" if the analog input of Lch or Rch is overflows.

Pin No.	Pin Name	I/O	Description
34	VCOM	O	Common Voltage Output Pin, AVDD/2. Large external capacitor around 2.2µF is used to reduce power-supply noise.
35	VREFH	I	Positive Voltage Reference Input Pin, AVDD
36	AVDD	–	Analog Power Supply Pin, 4.5 V -~ 5.5 V
37	AVSS	–	Analog Ground Pin, 0V
38	DZF1	O	Zero Input Detect 1 Pin (Note 2). When the input data of the group 1 follow total 8192 LRCK cycles with "0" input data, this pin goes to "H".
39	MCLK	I	Master Clock Input Pin
40	P/S	I	Parallel/Serial Select Pin. "L": Serial control mode, "H": Parallel control mode
41	DIF0 CSN	I	Audio Data Interface Format 0 Pin in parallel control mode. Chip Select Pin in 3-wire serial control mode. This pin should be connected to DVDD at I²C bus control mode.
42	DIF1 SCL/CCLK	I	Audio Data Interface Format 1 Pin in parallel control mode. Control Data Clock Pin in serial control mode. I²C = "L": CCLK (3-wire Serial), I²C = "H": SCL (I²C Bus)
43	LOOP0 SDA/CDTI	I I/O	Loopback Mode 0 Pin in parallel control mode. Enables digital loop-back from ADC to 3 DACs. Control Data Input Pin in serial control mode. I²C = "L": CDTI (3-wire Serial), I²C = "H": SDA (I²C Bus)
44	LOOP1	I	Loopback Mode 1 Pin (Note 1). Enables all 3 DAC channels to be input from SDTI1.

Notes:
1. SDOS, SMUTE, DFS, and LOOP1 pins are ORed with register data if P/S = "L".
2. The group 1 and 2 can be selected by DZFM2-0 bits if P/S = "L" and DZFE = "L".
3. This pin becomes OVF pin if OVFE bit is set to "1" at serial control mode.
4. All input pins should not be left floating.

IC DESCRIPTION -3/9 (AK4112A-VF-E2) -1/1

Pin No.	Pin Name	I/O	Description
1	DVDD	–	Digital Power Supply Pin, 3.3 V
2	DVSS	–	Digital Ground Pin
3	TVDD	–	Input Buffer Power Supply Pin, 3.3 V or 5 V
4	V	O	Validity Flag Output Pin in Parallel Mode.
	TX		Transmit channel (through data) Output Pin in Serial Mode
5	XTI	I	X'tal Input Pin
6	XTO	O	X'tal Output Pin
7	PDN	I	Power-Down Mode Pin. When "L", the AK4112B is powered-down and reset.
8	R	–	External Resistor Pin. 18k +/-1% resistor to AVSS externally.
9	AVDD	–	Analog Power Supply Pin
10	AVSS	–	Analog Ground Pin
11	RX1	I	Receiver Channel 1. This channel is selected in Parallel Mode or default of Serial Mode.
12	DIF0	I	Audio Data Interface Format 0 Pin in Parallel Mode.
	RX2		Receiver Channel 2 in Serial Mode.
13	DIF1	I	Audio Data Interface Format 1 Pin in Parallel Mode.
	RX3		Receiver Channel 3 in Serial Mode.
14	DIF2	I	Audio Data Interface Format 2 Pin in Parallel Mode.
	RX4		Receiver Channel 4 in Serial Mode.
15	AUTO	O	Non-PCM Detect Pin. "L": No detect, "H" : Detect.
16	P/S	I	Parallel/Serial Select Pin. "L": Serial Mode, "H": Parallel Mode
17	FS96	O	96kHz Sampling Detect Pin. (RX Mode) "H" : fs=88.2kHz or more, "L" fs=54kHz or less. (X'tal Mode) "H" : XFS96=1, "L" : XFS96=0.
18	ERF	O	Unlock & Parity Error Output Pin. "L": No Error, "H": Error
19	LRCK	I/O	Output Channel Clock Pin
20	SDTO	O	Audio Serial Data Output Pin
21	BICK	I/O	Audio Serial Data Clock Pin
22	DAUX	I	Auxiliary Audio Data Input Pin
23	MCK02	O	Master Clock #2 Output Pin
24	MCK01	O	Master Clock #1 Output Pin
25	OCKS0	I	Output Clock Select 0 Pin in Parallel Mode
	CSN		Chip Select Pin in Serial Mode
26	OCKS1	I	Output Clock Select 1 Pin in Parallel Mode
	CCLK		Control Data Clock Pin in Serial Mode
27	CM1	I	Master Clock Operation Mode Pin1 in Parallel Mode
	ODTI		Control Data Input Pin in Serial Mode
28	CM0	I	Master Clock Operation Mode Pin0 in Parallel Mode
	CDTO	O	Control Data Output Pin in Serial Mode

Note 1: All input pins except internal pull-down pins should not be left floating.

IC DESCRIPTION - 4/9 (CS493263-CL) -1/1

Pin No.	Pin Name	I/O	Description
1	VD1	–	Digital power supply. Normally +2.5 V
2	DGND	–	Digital ground
3	AUD3	O	SPDIF transmitter output/Digital audio output (N.C)
4	WR	I	Host write strobe pin (connected to GND with an external resistor)
5	RD	I	Host parallel output enable pin (pulled up with an external resistor)
6	CS_DA	I	SPI Serial data input pin
7	CS_CK	I	Serial control clock input pin
8 ~ 11	EMAD7 ~ EMAD4	I/O	Serial data IN/OUTPUT pins (pulled up with an external resistor)
12	VD2	–	Digital power supply. Normally +2.5 V
13	DGND	–	Digital ground
14 ~ 17	EMAD3 ~ EMAD0	I/O	Serial data IN/OUTPUT pins (pulled up with an external resistor)
18	CS_CE	I	Host parallel chip select pin
19	SCDIO (AK_DOUT)	O	Serial control port data output pin
20	INTREQ	O	Control port interrupt request output pin
21	EXTMEM	I/O	External Memory Chip Selector (pulled up with an external resistor)
22	SDATAN1 (SD1)	I	PCM audio data input number 1 pin
23	VD3	–	Digital power supply. Normally +2.5 V
24	DGND	–	Digital ground
25	SCLKM1 (BICK)	I	PCM audio input bit clock pin
26	LRCLKN1 (LRCK)	I	PCM audio input sample rate clock pin
27	CMPDAT (SDI)	I	PCM audio data input number 2 pin
28	CMPCLK (BICK)	I	PCM audio input bit clock pin
29	CREQ (LRCK)	I	PCM audio input sample rate clock pin
30	CLKIM (XIN)	I	Master clock input (used external clock)
31	CLKSEL (GND)	I	DSP clock mode select pin: connect the GND
32, 33	FILT1, FILT2	–	Connects to an external filter for the on-chip phase-locked loop
34	VA	–	Analog Power supply for clock generator . Normally +2.5 V
35	AGND	–	Analog ground supply for clock generator PLL.
36	RESET (CS_RST)	I	Master reset input pin
37	DBDATA	–	Reserved pin and should be pulled up with an external resistor.
38	DBCLK	–	Reserved pin and should be pulled up with an external resistor.
39	AUD2 (SDO2)	O	PCM multi-format digital-audio data output 2 pin
40	AUD1 (SDO1)	O	PCM multi-format digital-audio data output 1 pin
41	AUD0 (SDO0)	O	PCM multi-format digital-audio data output 0 pin
42	LRCLK	I	Audio output sample rate clock pin
43	SCLK (BICK)	I	Audio output bit clock pin
44	MCLK	I	Audio master clock output pin

IC DESCRIPTION - 5/9 (TMP87PS71F) -1/2

Pin No.	Pin Name	I/O	Description
1	MREQ (DVD)	–	DVD interface
2	REMOTE-IN	I	Remote Control Sensor Data Input
3	RDS_CLK	O	N.C
4	RDS_DATA	I	N.C
5	FREQ (DVD)	–	DVD interface
6	EVOL_DATA	O	ELECTRONIC VOL. IC (M62446) DATA/CLK/STB port
7	EVOL_CLK	O	
8	EVOL_CE (STB)	O	
9	GND	–	GND port
10, 11	NC	I	Not connected
12	RESET	I	Reset input port ("L")
13	X_IN	I	8 MHz crystal connection port
14	X_OUT	O	
15	GND	–	GND port
16	BACKUP	I	BACKUP mode control port
17, 18	FUNC_SW2, 1	I	Function selector control port
19	SCKO (DVD)	–	DVD interface
20	DATA-IN (DVD)	–	DVD interface
21	RXDO (DVD)	–	DVD interface
22	EXP/CS_CK	O	CLK output port for CS49326
23	CS_CE	O	CHIP selector port for CS49326
24	EXP/CS_DA	O	DATA output port for CS49326
25	AK_CE	O	CHIP selector port for AK4112 & AK4527
26	OVER	O	OVER voltage input port ("L")
27	POWER	O	UNIT turn-on control port
28	PLL_DATA_IN	I	PLL data input port
29	FUNC_STB	O	FUNC. IC (TC9164) strobe control port
30	PLL_FUNC_CLK	O	PLL/FUNC. CLK output port
31	PLL_FUNC_DA	O	PLL/FUNC. data output port
32	PLL_CE	O	PLL IC chip enable control port
33	VDD/VCC	–	Power supply port (+5 V)
34	G9	O	FIP grid control port
35	G8	O	
36	G7	O	
37	G6	O	
38	G5	O	
39	G4	O	
40	G3	O	
41	G2	O	
42	G1	O	
43	G0	O	

IC DESCRIPTION - 5/9 (TMP87PS71F) -2/2

Pin No.	Pin Name	I/O	Description
44	P01	O	FIP segment control port
45	P02	O	
46	P03	O	
47	P04	O	
48	P05	O	
49	P06	O	
50	P07	O	
51	P08	O	
52	P09	O	
53	P10	O	
54	P11	O	
55	P12	O	
56	P13	O	
57	P14	O	
58	P15	O	
59	P16	O	
60	P17	O	
61	P18	O	
62	P19	O	
63	P20	O	
64	P21	O	
65	P22	O	
66	–Vkk	–	FIP power supply port (-30 V)
67	OPTION	–	Option control port
68	DFS	I	Sampling freq. (96 kHz) sensing port ("H")
69	ERR	I	Error sensing port ("H")
70	PROTECT-IN	I	Protect input port ("L")
71	STEREP_IN	I	Stereo display control port ("L")
72	TUNED_IN	I	Tuned display control port ("L")
73	CS_RST	O	Reset output port for CS49326
74	INTREQ	I	Interrupt request control port
75	AK_DOUT	I	Data input port
76	KEY MATRIX2	I	Key control input port
77	KEY MATRIX1	I	
78	KEY MATRIX0	I	
79	EXP_STB	–	Chip selector port for NJU3713
80	HP-IN	I	Headphone insert sensing port

IC DESCRIPTION - 6/9 (CS4955) -1/1

Pin No.	Pin Name	I/O	Description
1 ~ 8	V0 ~ V7	I	Digital video data inputs
9	FIELD/CB	O	Video field ID. Selectable polarity or composite blank
10	$\overline{\text{HSYNC/CB}}$	I/O	Active "L" horizontal sync, or composite blank signal
11	$\overline{\text{VSYNC}}$	I/O	Active "L" vertical sync.
12	INT	O	Interrupt output, active "H"
13	TEST	I	TEST pin. Ground for normal operation
14	XTAL_OUT	O	Subcarrier crystal output
15	XTAL_IN	I	Subcarrier crystal input
16	PADDR	I	Address enable line
17	VDD	–	+5 V or 3.3 V supply (must be same as VAA)
18	GNDD	–	Ground
19 ~ 26	PDAT7 ~ PDAT0	I/O	Host parallel port/general purpose I/O
27	$\overline{\text{RD}}$	I	Host parallel port read strobe, active "L".
28	$\overline{\text{WR}}$	I	Host parallel port write strobe, active "L".
29	CLK	I	27 MHz input clock
30	TTXDAT	I	Teletext data input
31	TTXRQ	O	Teletext request output
32	SDA	I/O	I²C data
33	SCL	I	I²C clock input
34	$\overline{\text{RESET}}$	I	Active "L" master RESET
35	GNDA	–	Ground
36	VAA	–	+5 V or 3.3 V supply (must be same as VDD)
37	ISET	–	DAC current set
38	VREF	I/O	Internal voltage reference output or external reference input
39	R	O	Red analog output
40	G	O	Green analog output
41	VAA	–	+5 V or 3.3 V supply (must be same as VDD)
42	GNDA	–	Ground
43	B	O	Blue analog output
44	CVBS	O	Composite video output
45	GNDA	–	Ground
46	VAA	–	+5 V or 3.3 V supply (must be same as VDD)
47	C	O	Chrominance analog output
48	Y	O	Luminance analog output

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>1</td><td>VCC</td><td>–</td><td>3.65 V ± 150 mV</td></tr>
<tr><td>2 ~ 7</td><td>LA4 ~ LA9</td><td>O</td><td>Device address output</td></tr>
<tr><td>8</td><td>VSS</td><td>–</td><td>Ground</td></tr>
<tr><td>9</td><td>VCC</td><td>–</td><td>3.65 V ± 150 mV</td></tr>
<tr><td>10 ~ 16</td><td>LA10 ~ LA16</td><td>O</td><td>Device address output</td></tr>
<tr><td>17</td><td>VSS</td><td>–</td><td>Ground</td></tr>
<tr><td>18</td><td>VCC</td><td>–</td><td>3.65 V ± 150 mV</td></tr>
<tr><td>19 ~ 23</td><td>LA17 ~ LA21</td><td>O</td><td>Device address output</td></tr>
<tr><td>24</td><td>$\overline{\text{RESET}}$</td><td>I</td><td>Reset input, active "L".</td></tr>
<tr><td rowspan="2">25</td><td>TDMDX</td><td>O</td><td>TDM transmit data.</td></tr>
<tr><td>RSEL</td><td>I</td><td>ROM Select
<table><tr><th>RSEL</th><th>Selection</th></tr><tr><td>0</td><td>16-bit ROM</td></tr><tr><td>1</td><td>8-bit ROM</td></tr></table></td></tr>
<tr><td>26</td><td>VSS</td><td>–</td><td>Ground</td></tr>
<tr><td>27</td><td>VCC</td><td>–</td><td>3.65 V ± 150 mV</td></tr>
<tr><td>28</td><td>TDMDR</td><td>I</td><td>TDM receive data</td></tr>
<tr><td>29</td><td>TDMCLK</td><td>I</td><td>TDM clock input</td></tr>
<tr><td>30</td><td>TDMFS</td><td>I</td><td>TDM frame synch</td></tr>
<tr><td>31</td><td>$\overline{\text{TDMTSC}}$</td><td>O</td><td>TDM output enable, active "L".</td></tr>
<tr><td rowspan="2">32</td><td>TWS</td><td>O</td><td>Audio transmit frame sync</td></tr>
<tr><td>SEL_PLL1</td><td>I</td><td>Select PLL1</td></tr>
<tr><td rowspan="2">33</td><td>TSD</td><td>O</td><td>Audio transmit serial data port</td></tr>
<tr><td>SEL_PLL0</td><td>I</td><td>Select PLL0
<table><tr><th>SEL_PLL2</th><th>SEL_PLL0</th><th>Clock Output</th></tr><tr><td>0</td><td>0</td><td>2.5 x DCLK</td></tr><tr><td>0</td><td>1</td><td>3 x DCLK</td></tr><tr><td>1</td><td>0</td><td>3.5 x DCLK</td></tr><tr><td>1</td><td>1</td><td>4 x DCLK</td></tr></table></td></tr>
<tr><td>34</td><td>VSS</td><td>–</td><td>Ground</td></tr>
<tr><td>35</td><td>VCC</td><td>–</td><td>3.65 V ± 150 mV</td></tr>
<tr><td>36</td><td>SEL_PLL2</td><td>I</td><td>Select PLL2. See the table for pin number 33</td></tr>
<tr><td>37, 38</td><td>NC</td><td>–</td><td>No connect pins. Leave open.</td></tr>
<tr><td>39</td><td>MCLK</td><td>I/O</td><td>Audio master clock for audio DAC</td></tr>
<tr><td>40</td><td>TBCK</td><td>I/O</td><td>Audio transmit bit clock</td></tr>
<tr><td>41</td><td>SPDIF_DOBM</td><td>O</td><td>S/PDIF (IEC958) Format Output</td></tr>
<tr><td>42</td><td>NC</td><td>–</td><td>No connect pins. Leave open.</td></tr>
<tr><td>43</td><td>VSS</td><td>–</td><td>Ground</td></tr>
<tr><td>44</td><td>VCC</td><td>–</td><td>3.65 V ± 150 mV</td></tr>
<tr><td>45</td><td>RSD</td><td>I</td><td>Audio receive serial data</td></tr>
<tr><td>46</td><td>RWS</td><td>I</td><td>Audio receive frame synch</td></tr>
</table>

Pin No.	Pin Name	I/O	Description
47	PBCK	I	Audio receive bit clock
48	APLLCAP	I	Analog PLL Capacitor
49	XIN	I	Crystal input
50	XOUT	O	Crystal output
51	VCC	–	3.65 V ± 150 mV
52	VSS	–	Ground
53 ~ 58	DMA0 ~ DMA5	O	DRAM address bus
59	VCC	–	3.65 V ± 150 mV
60	VSS	–	Ground
61 ~ 66	DMA6 ~ DMA11	O	DRAM address bus
67	VSS	–	Ground
68	VCC	–	3.65 V ± 150 mV
69	$\overline{\text{DCAS}}$	O	Column address strobe, active "L".
70	$\overline{\text{DOE}}$	O	Output enable, active "L".
	$\overline{\text{DSCK_EN}}$	I	Clock Enable, active "L".
71	$\overline{\text{DWE}}$	O	DRAM write enable, active "L".
72 ~ 74	$\overline{\text{DRAS0}}$ ~ $\overline{\text{DRAS2}}$	O	Row address strobe, active "L".
75	VCC	–	3.65 V ± 150 mV
76	VSS	–	Ground
77 ~ 82	DB0 ~ DB5	I/O	DRAM data bus
83	VCC	–	3.65 V ± 150 mV
84	VSS	–	Ground
85 ~ 90	DB6 ~ DB11	I/O	DRAM data bus
91	VSS	–	Ground
92	VCC	–	3.65 V ± 150 mV
93 ~ 96	DB12 ~ DB15	I/O	DRAM data bus
97	$\overline{\text{DCS1}}$	O	SDRAM chip select [1], active "L".
98	VSS	–	Ground
99	VCC	–	3.65 V ± 150 mV
100	$\overline{\text{DCS0}}$	O	SDRAM chip select [0], active "L".
101	DQM	O	Data input/output mask
102	DSCK	O	Clock to SDRAM
103	VSS	–	Ground
104	VCC	–	3.65 V ± 150 mV
105	DCLK	I	Clock Input (27 MHz)
106 ~ 110	YUV0 ~ YUV4	O	8-bit YUV output
111	VCC	–	3.65 V ± 150 mV
112	VSS	–	Ground
113 ~ 115	YUV5 ~ YUV7	O	8-bit YUV output
116	PCLK2XSCN	I/O	2X pixel clock
117	PCLKQSCN	I/O	Pixel clock

Pin No.	Pin Name	I/O	Description
118	$\overline{\text{VSYNCH}}$	I/O	Vertical synch for screen video interface, programmable for rising or falling edge, active "L".
119	$\overline{\text{HSYNCH}}$	I/O	Horizontal sync for screen video interface, programmable for rising or falling edge, active "L".
120	VSS	–	Ground
121	VCC	–	3.65 V ± 150 mV
122 ~ 128	HD0 ~ HD6	I/O	Host data bus
129	VSS	–	Ground
130	VCC	–	3.65 V ± 150 mV
131 ~ 137	HD7 ~ HD13	I/O	Host data bus
138	VSS	–	Ground
139	VCC	–	3.65 V ± 150 mV
140, 141	HD14, HD15	I/O	Host data bus
142	$\overline{\text{HWRQ}}$	O	Host write request, active "L".
143	$\overline{\text{HRDQ}}$	O	Host read request, active "L".
144	HIRQ	I/O	Host interrupt.
145	$\overline{\text{HRST}}$	O	Host reset, active "L".
146	HIORDY	I	Host I/O ready.
147	VSS	–	Ground
148	VCC	–	3.65 V ± 150 mV
149	$\overline{\text{HWR}}$	O	Host write request, active "L".
	$\overline{\text{HWR}}$/DCI_ACK	I	Host write/DCI Interface Acknowledge Signal, active "L".
150	$\overline{\text{HRD}}$/DCI_CLK	I	Host read/DCI Interface Clock
151	$\overline{\text{HIOCS16}}$	I	Device 16-bit data transfer, active "L".
152	$\overline{\text{HCS1FX}}$	O	Host select 1, active "L".
153	$\overline{\text{HCS3FX}}$	O	Host select 3, active "L".
154, 155	HA0, HA1	I/O	Host address bus
156	VSS	–	Ground
157	VCC	–	3.65 V ± 150 mV
158	HA2	I/O	Host address bus
159	VPP	I	Peripheral protection voltage. See AppNote 2.
160 ~ 162	AUX0 ~ AUX2	I/O	Auxiliary ports
163	VSS	–	Ground
164	VCC	–	3.65 V ± 150 mV
165 ~ 169	AUX3 ~ AUX7	I/O	Auxiliary ports
170	$\overline{\text{LOE}}$	O	Device output enable, active "L".
171	VSS	–	Ground
172	VCC	–	3.65 V ± 150 mV
173 ~ 176	$\overline{\text{LCS0}}$ ~ $\overline{\text{LCS3}}$	O	Chip select [0:3], active "L".
177	VSS	–	Ground
178 ~ 182	LD0 ~ LD4	I/O	Device data bus
183	VCC	–	3.65 V ± 150 mV
184	VSS	–	Ground

Pin No.	Pin Name	I/O	Description
185 ~ 191	LD5 ~ LD11	I/O	Device data bus
192	VSS	–	Ground
193	VCC	–	3.65 V ± 150 mV
194 ~ 197	LD12 ~ LD15	I/O	Device data bus
198	$\overline{\text{LWRLL}}$	O	Device write enable, active "L".
199	$\overline{\text{LWRHL}}$	O	Device write enable, active "L".
200	VSS	–	Ground
201	VCC	–	3.65 V ± 150 mV
202, 203	NC	–	No connect pins. Leave open.
204 ~ 207	LA0 ~ LA3	O	Device address output
208	VSS	–	Ground

IC DESCRIPTION -8/9 (HY29F400BT90) -1/2

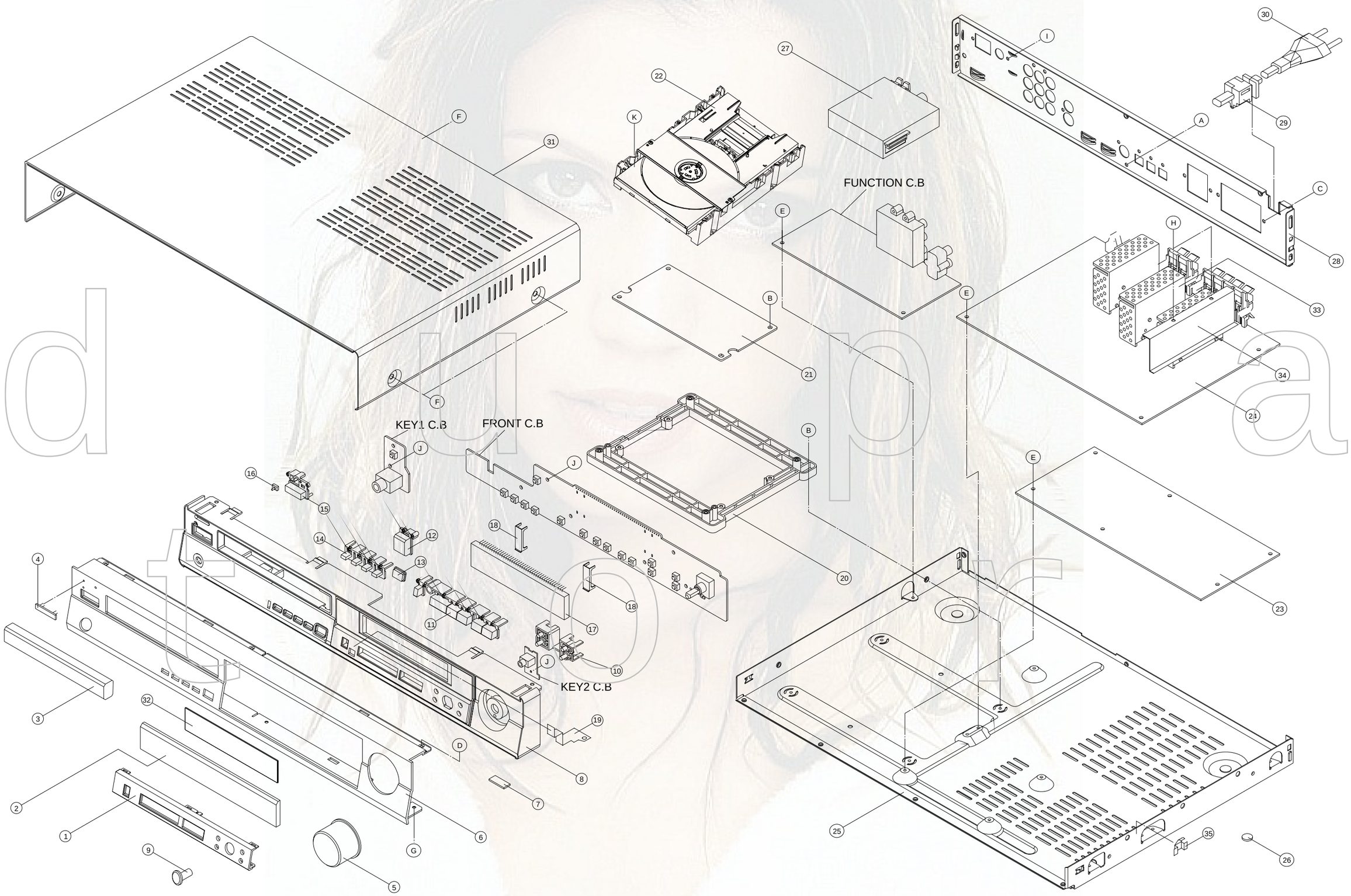
Pin No.	Pin Name	I/O	Description
1 ~ 8	A15 ~ A8	I	Address, active "H". In word mode, these 18 inputs select one of 262, 144 (256K) words within the array for read or write operations. In Byte mode, these inputs are combined with the DQ15/ A-1 input (LSB) to select one of 524,288 (512K) bytes within the array for read or write operations.
9, 10	NC	–	Not used.
11	$\overline{WE}$	I	Write enable, active "L". Controls writing of commands or command sequences in order to program data or erase sectors of the memory array. A write operation takes place when $\overline{WE}$ is asserted while $\overline{CE}$ is Low and $\overline{OE}$ is High. $\overline{BYTE}$ determines whether a byte or a word is written during the write operation.
12	$\overline{RESET}$	I	Hardware reset, active "L". Provides a hardware method of resetting the HY29F400 to the read array state. When the device is reset, it immediately terminates any operation in progress. The data bus is tri-stated and all read/write commands are ignored while the input is asserted. While $\overline{RESET}$ is asserted, the device will be in the standby mode.
13 ~ 16	NC	–	Not used.
17	A17	I	Address, active "H". In word mode, these 18 inputs select one of 262, 144 (256K) words within the array for read or write operations. In Byte mode, these inputs are combined with the DQ15/ A-1 input (LSB) to select one of 524,288 (512K) bytes within the array for read or write operations.
18 ~ 25	A7 ~ A0	I	
26	$\overline{CE}$	I	Chip enable, active "L". This input must be asserted for read data from or write data to the HY29F400. When High, the data bus is tri-stated and the device is placed in the standby mode.
27	VSS	–	Power and signal ground.
28	$\overline{OE}$	I	Output enable, active "L". This input must be asserted for read operations and negated for write operations. $\overline{BYTE}$ determines whether a byte or a word is read during the read operation. When High, data outputs from the device are disabled and the data bus pins are placed in the high impedance state.
29	DQ0	I/O	Data Bus, active "H". In word mode, these pins provide a 16-bit data path for read and write operations. In Byte mode, DQ [7:0] provide an 8-bit data path and DQ [15]/A [-1] is used as the LSB of the 19-bit byte address input. DQ [14:8] are unused and remain tri-stated in byte mode.
30	DQ8		
31	DQ1		
32	DQ9		
33	DQ2		
34	DQ10		
35	DQ3		
36	DQ11		
37	VCC	–	5-volt power supply.
38	DQ4	I/O	Data Bus, active "H". In word mode, these pins provide a 16-bit data path for read and write operations. In Byte mode, DQ [7:0] provide an 8-bit data path and DQ [15]/A [-1] is used as the LSB of the 19-bit byte address input. DQ [14:8] are unused and remain tri-stated in byte mode.
39	DQ2		
40	DQ5		
41	DQ13		
42	DQ6		
43	DQ14		
44	DQ7		

Pin No.	Pin Name	I/O	Description
45	DQ15/A -1	I/O	Data Bus, active "H". In word mode, these pins provide a 16-bit data path for read and write operations. In Byte mode, DQ [7:0] provide an 8-bit data path and DQ [15]/A [-1] is used as the LSB of the 19-bit byte address input.
46	VSS	–	Power and signal ground.
47	$\overline{BYTE}$	I	Byte mode, active Low. Controls the byte/word configuration of the device. Low selects byte mode, High selects word mode.
48	A16	I	Address, active "H". In word mode, these 18 inputs select one of 262, 144 (256K) words within the array for read or write operations. In Byte mode, these inputs are combined with the DQ15/ A-1 input (LSB) to select one of 524,288 (512K) bytes within the array for read or write operations.

IC DESCRIPTION -9/9 (HY57V161610DTC8) -1/1

Pin No.	Pin Name	I/O	Description
1	VCC	–	Power supply. Power supply for internal circuit and input buffer.
2, 3	DQ0, DQ1	I/O	Data input/output. Multiplexed data input/output pin.
4	VSSQ	–	Ground. Power supply for DQ.
5, 6	DQ2, DQ3	I/O	Data input/output. Multiplexed data input/output pin.
7	VCCQ	–	Data output power. Power supply for DQ.
8, 9	DQ4, DQ5	I/O	Data input/output. Multiplexed data input/output pin.
10	VSSQ	–	Ground. Power supply for DQ.
11, 12	DQ6, DQ7	I/O	Data input/output. Multiplexed data input/output pin.
13	VCCQ	–	Data output power. Power supply for DQ.
14	LDQM	I	Data input/output mask. DQM control output buffer in read mode and mask input data in write mode.
15	$\overline{WE}$	I	Write enable. $\overline{WE}$ defines the operation. Refer function truth table for details, Active "L".
16	$\overline{CAS}$	I	Column address strobe. $\overline{CAS}$ defines the operation. Refer function truth table for details, Active "L".
17	$\overline{RAS}$	I	Row address strobe. $\overline{RAS}$ defines the operation. Refer function truth table for details, Active "L".
18	$\overline{CS}$	I	Chip select. Command input enable or mask except CLK, CKE and DQM. Active "L".
19	BA/A11	I	Bank address. Select either one of banks during both $\overline{RAS}$ and $\overline{CAS}$ activity.
20	A10	I	Address. Row address: RA0 - RA10, column address: CA0 - CA7. Auto-precharge flag: A10.
21 ~ 24	A0 ~ A3	I	Address. Row address: RA0 - RA10, column address: CA0 - CA7. Auto-precharge flag: A10.
25	VCC	–	Power supply. Power supply for internal circuit and input buffer.
26	VSS	–	Ground. Power supply for internal circuit and input buffer.
27 ~ 32	A4 ~ A9	I	Address. Row address: RA0 - RA10, column address: CA0 - CA7. Auto-precharge flag: A10.
33	NC	–	Not connected.
34	CKE	I	Clock enable. Controls internal clock signal and when deactivated, the SDRAM will be one of the states among power down, suspend or self refresh.
35	CLK	I	Clock. The system clock input. All other inputs are referenced to the SDRAM on the rising edge of CLK.
36	UDQM	I	Data input/output mask. DQM control output buffer in read mode and mask input data in write mode.
37	NC	–	Not connected.
38	VCCQ	–	Data output power. Power supply for DQ.
39, 40	DQ8, DQ9	I/O	Data input/output. Multiplexed data input/output pin.
41	VSSQ	–	Ground. Power supply for DQ.
42, 43	DQ10, DQ11	I/O	Data input/output. Multiplexed data input/output pin.
44	VCCQ	–	Data output power. Power supply for DQ.
45, 46	DQ12, DQ13	I/O	Data input/output. Multiplexed data input/output pin.
47	VSSQ	–	Ground. Power supply for DQ.
48, 49	DQ14, DQ15	I/O	Data input/output. Multiplexed data input/output pin.
50	VSS	–	Ground. Power supply for internal circuit and input buffer.

MECHANICAL EXPLODED VIEW 1/1



MECHANICAL PARTS LIST -1/1

! = ⚠ SAFTY PARTS
C = Components marked
All components used on this model at the production line are shown in this service manual.
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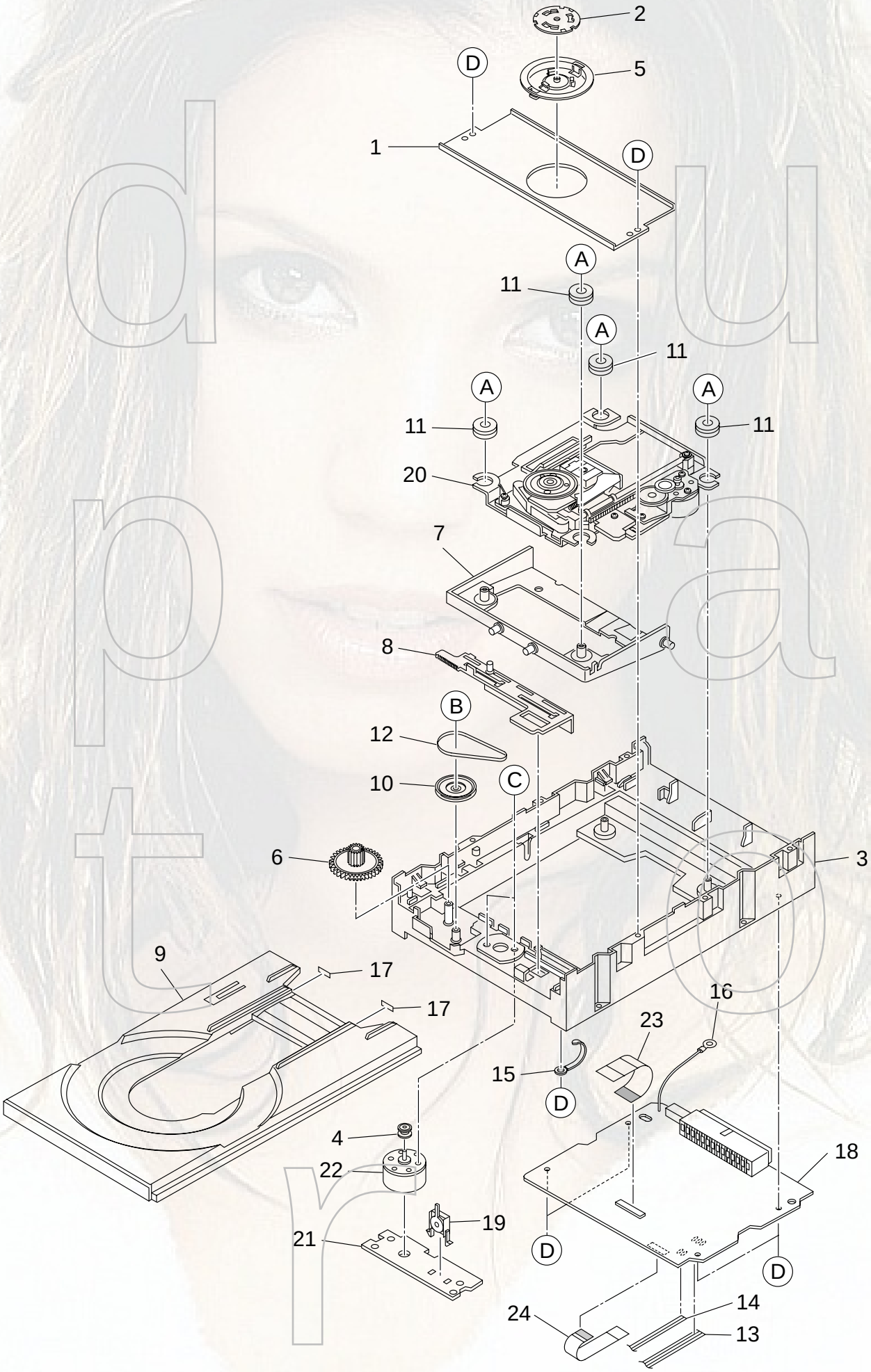
UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
		O	MC1001	SG-X1A-313-ZC3	ORNAMENT,FRONT	a	b	c
		O	MC1002	SG-U2A-275-Z00	WINDOW,FIP	a	.	.
		O	MC1002	SG-U1A-275-Z00	WINDOW,FIP	.	b	c
		O	MC1003	SG-R1A-261-MQZ	ORNAMENT,DOOR	a	b	c
		O	MC1004	SG-B1A-103-Z00	BADGE,AIWA	a	b	c
		O	MC1005	SB-N1A-154-MQC	KNOB,VOLUME	a	.	.
		O	MC1005	SG-X1A-312-ZA0	KNOB ASSY,VOL	.	b	c
		O	MC1006	SK-M1A-119-YC3	PANEL,FRONT(AL)	a	.	.
		O	MC1006	SK-M1A-119-ZC3	PANEL,FRONT(AL)	.	b	c
		O	MC1007	SH-G1A-200-000	FOOT,(F)	a	b	c
		O	MC1008	SG-W2A-330-MSK	PANEL,FRONT	.	b	c
		O	MC1008	SG-W2A-330-R8K	PANEL,FRONT	a	.	.
		O	MC1009	SB-T1A-805-MQZ	KNOB,JOG	a	b	c
		O	MC1010	SB-T1A-804-MQK	KNOB,TITLE	a	b	c
		O	MC1011	SB-T1A-803-MQZ	KNOB,FUNCTION	a	b	c
		O	MC1012	SB-T1A-800-MQZ	KNOB,OPEN	a	b	c
		O	MC1013	SG-U1A-274-K12	WINDOW,IR	a	b	c
		O	MC1014	SB-T1A-801-MQK	KNOB,DISPLAY	a	b	c
		O	MC1015	SB-T1A-802-MQZ	KNOB,POWER	a	b	c
		O	MC1016	SG-L1A-197-A18	INCICATOR,POWER	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
		S	MC1017	SF-LHN-A10-SM1	F.I.P,HNA-10SM17	a	b	c
		O	MC1018	SM-D1A-458-000	BRACKET,FIP	a	b	c
		X	MC1019	SM-C1A-176-000	PLATE,GND	a	b	c
		O	MC1020	SM-H1A-156-MQ0	SUPPORT,MECHA	a	b	c
		X	MC1021	SU-P11-445-W00	DVD MAIN PWB	a	b	c
		O	MC1022	SJ-DMG-DF6-100	MGD-F6103A	a	b	c
	!	O	MC1023	SO-P11-512-BA0	SMPS PWB ASSY (120V)	a	.	.
	!	O	MC1023	SO-P11-502-BA0	SMPS PWB ASSY (230V)	.	b	c
		X	MC1024	SU-P11-494-Y00	PWB,MAIN	a	b	c
		X	MC1025	SU-A2A-210-000	CHASSIS,BOTTOM	a	b	c
		O	MC1026	SH-G1A-201-000	FOOT,(R)	a	b	c
		O	MC1027	SN-VMB-001-MA0	TUNER MODULE	a	.	.
		O	MC1027	SN-VMB-014-MA1	TUNER MODULE	.	b	c
		O	MC1028	SK-F2A-231-Y00	PANEL,REAR	a	.	.
		O	MC1028	SK-F2A-231-Z00	PANEL,REAR	.	b	.
		O	MC1028	SK-F2A-231-X00	PANEL,REAR	.	.	c
	!	O	MC1029	SH-R1A-028-000	BUSHING,AC CORD	a	b	c
	!	O	MC1030	SJ-A2A-058-Z00	AC CORD,UL 7.0A 125V	a	.	.
	!	O	MC1030	SJ-A2B-043-Z00	AC CORD,UR 2.5A 250V	.	b	c
		O	MC1031	SK-C3A-126-K12	CABI,TOP	a	.	.
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
		O	MC1031	SK-C2A-126-K12	CABINET,TOP	.	b	c
		O	MC1032	SM-Z2A-074-000	FILTER,FIP	a	b	c
		X	MC1033	SM-Y1A-189-ZA0	HEAT SINK ASS'Y	a	b	c
		X	MC1034	SM-D2A-461-000	SHIELD,POWER	a	.	.
		X	MC1034	SM-X1A-117-000	PLATE,SHIELD(A)	.	b	c
		O	MC1035	SM-D1A-465-000	COVER,SCREW	.	b	c
		O	MC1A	87-744-094-410	SCREW,UT2+3-6	a	b	c
		O	MC1B	87-741-096-410	SCREW,UT2+3-10	a	b	c
		O	MC1C	87-B10-269-010	SCREW,UT2+3-12	a	b	c
		O	MC1D	ST-S31-0GF-C00	SCREW	a	b	c
		O	MC1E	87-761-095-410	SCREW,VFT2+3-8	a	b	c
		O	MC1F	ST-B46-FFC-000	SCREW	a	b	c
		O	MC1G	ST-BD3-8JF-C00	SCREW,DOT	a	b	c
		O	MC1H	87-741-095-410	SCREW,UT2+3-8	a	b	c
		O	MC1I	SN-B36-FC0-000	SCREW,CROME	a	b	c
		O	MC1J	87-741-095-410	SCREW,UT2+3-8	a	b	c
		O	MC1K	ST-B26-10G-000	SCREW	a	b	c

COLOR NAME TABLE -1/1

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	HT	Transparent Gray
HM	Metallic Gray	NH	Champagne Gold	M	Wood Pattern

MECHANISM EXPLODED VIEW - 1/1



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		O	SD1001	SF-6C1-001-000	CLAMPER BKT	a	b	c
		O	SD1002	S3-0D1-002-000	YORK(CLAMPER-T)	a	b	c
		O	SD1003	SF-6A3-001-000	CHASSIS	a	b	c
		O	SD1004	SF-6D3-007-000	PULLEY(MOTOR)	a	b	c
		O	SD1005	SF-6C3-008-000	CLAMPER	a	b	c
		O	SD1006	SF-6D3-006-000	GEAR(LOAD)	a	b	c
		O	SD1007	SF-6C3-003-000	HOLDER(TU)	a	b	c
		O	SD1008	SF-6C3-004-000	SLIDER(CAM)	a	b	c
		O	SD1009	SF-6A3-002-000	TRAY	a	b	c
		O	SD1010	SF-6D3-005-000	PULLEY(GEAR)	a	b	c
		O	SD1011	SF-6D4-003-000	INSULATOR	a	b	c
		O	SD1012	SF-6D4-002-000	DRIVE BELT	a	b	c
		O	SD1013	SF-6D9-012-000	WIRING HARNESS(3P)	a	b	c
		O	SD1014	SF-6D9-011-000	WIRING HARNESS(2P)	a	b	c
		X	SD1015	S9-099-907-700	CORD CLAMPER	a	b	c
		X	SD1016	SF-6D9-014-000	WIRE(1P)	a	b	c
		X	SD1017	SF-6D8-011-000	SOFT TAPE	a	b	c
		O	SD1018	SP-340-030-000	PWB ASSY	a	b	c
		O	SD1019	S9-440-212-400	LEVER SW SSS-28-3	a	b	c
		O	SD1020	SK-DTB-2H0-000	DVD TRAVERSE UNIT	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
		X	SD1021	SF-6A9-002-000	PWB MECHA	a	b	c
		O	SD1022	S9-143-317-400	MOTOR MDN3BT3DSA	a	b	c
		O	SD1023	SF-6D9-009-000	FFC WIRE(28P)	a	b	c
		O	SD1024	SF-6D9-010-000	FFC WIRE(9P)	a	b	c
		O	SD1A	SF-5D8-010-000	SCREW(TU)	a	b	c
		O	SD1B	SE-1D8-012-000	SCREW(A2)	a	b	c
		O	SD1C	SN-530-047-000	SEMS SCREW 1.7*3.5	a	b	c
		O	SD1D	SN-230-001-000	BIND TAPPING SC M2.6*8	a	b	c

OTHER PARTS LIST -1/1

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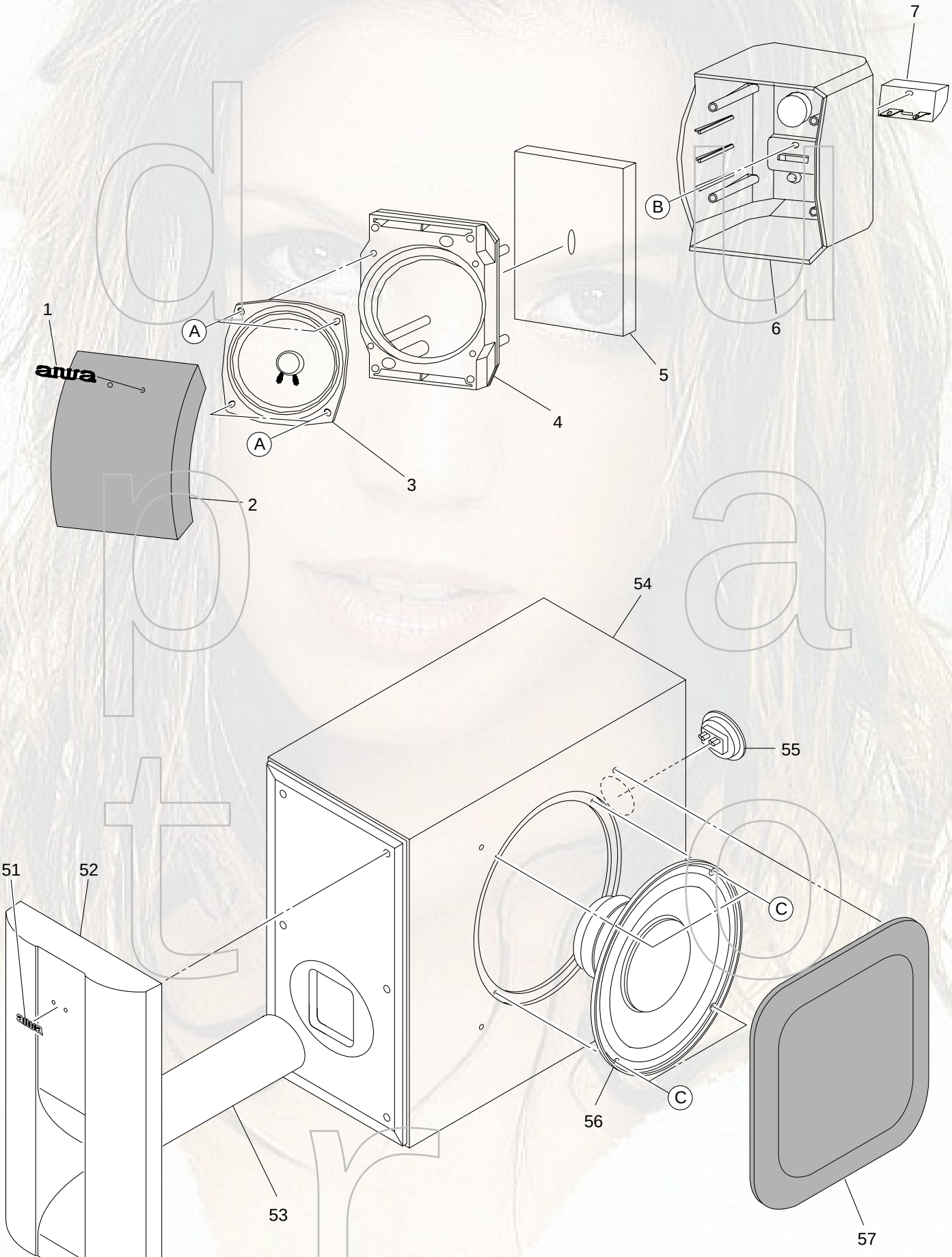
UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
		X		SP-P1A-093-Z00	BAG,POLY(FR)	a	b	c
		X		SP-P1A-093-Y00	BAG,POLY(RE)	a	b	c
		X		SP-B1A-160-Z00	BAG,POLY	a	b	c
		X		SP-B1A-165-Z00	BAG,POLY	a	b	c
		X		SP-P1A-096-Z00	BAG,POLY	a	b	c
		X		SP-P1A-093-X00	BAG,POLY(CE)	a	b	c
		X		SP-B1A-163-Z00	BAG,POLY(MANUAL)	a	b	c
		X		SP-P1A-099-Y00	BAG,POLY(SW)	a	b	c
		X		SP-B1A-164-Z00	BAG,POLY	a	b	c
		X		SP-G1A-657-Z00	BAX,OUT CARTON	.	b	c
		X		S8-AYG-626-000	COMPOUND,SILICONE	a	b	c
		X		SH-S1A-032-000	TAPE,HEMELON	a	b	c
		X		S4-FJ1-040-000	TAPE,BOTH SIDE	a	b	c
		X		S4-FE1-900-000	TAPE,FILAMENT	a	b	c
		X		SQ-B1A-508-Y00	LABEL,CAUTION	a	b	c
		X		SP-S1A-548-000	PAD,SNOW(CENTER)	a	b	c
		X		SP-S1A-549-000	PAD,SNOW(DOWN)	a	b	c
		X		SP-S1A-545-000	PAD,SNOW(F)	a	b	c
		X		SP-S1A-546-000	PAD,SNOW(R)	a	b	c
		X		SP-S1A-547-000	PAD,SNOW(UP)	a	b	c
						HT-DV90 USC	HT-DV90 EZSC	HT-DV90 KSC
		X		SQ-B1A-526-Z00	LABEL,CAUTION DVD	a	.	.
		X		SQ-B1A-503-Z00	LABEL,DOLBY	a	b	c
		X		SQ-E1A-151-Z00	SHEET,REMOCON	a	b	c
		X		S4-FH3-000-000	TAPE,PROTECTOR	a	b	c
		X		SP-G1A-657-Y00	BOX,OUT CARTON	a	.	.
		X		SQ-E1A-153-Z00	CARD,WARRANTY	a	.	.
		X		SQ-T1A-225-000	LABEL,BAR CODE(U)	a	.	.
		X		SQ-B1A-504-Z00	LABEL,DHHS	a	.	.
		X		SQ-T1A-227-Z00	LABEL,MANUFACTURE	a	.	.
		X		SQ-B1A-516-Z00	LABEL,POP(UCC)	a	.	.
		X		SQ-B1A-520-Z00	LABEL,USA	a	.	.
		X		SQ-B1A-510-Z00	LABEL,POP	.	b	c
		X		SQ-B1A-509-Z00	LABEL,PRODUCT	.	b	c
		X		SQ-E1A-148-Z00	LIST,FACILITY	.	b	c
		X		SQ-E1A-147-Z00	CARD,WARRANTY	.	b	c
		X		SQ-T1A-223-000	LABEL,BAR CODE	.	b	.
		X		SQ-B2A-511-Z00	LABEL,K	.	.	c
		X		SQ-T1A-224-000	LABEL,BAR CODE(K)	.	.	c
		X		SP-B1A-162-Z00	POLY BAG	.	.	c

SPEAKER EXPLODED VIEW -1/1



SPEAKER PARTS LIST -1/1

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UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL			
						TS-W90 WOOFER	SX-F90 CENTER	SX-F90 FRONT	SX-R90 SURRUND
		O	MC1001	SG-B1A-104-H41	BADGE,AIWA(MOLD)	.	b	c	d
		O	MC1002	SM-H1A-159-MP0	FRAME,NET	.	b	c	d
		O	MC1003	SA-S10-FP2-01S	SPEAKER,4INCH(F/C)	.	b	c	.
		O	MC1003	SA-S10-FP2-03S	SPEAKER,4INCH(REAR)	.	.	.	d
		O	MC1004	SM-H1A-160-MR0	BAFFLE PANEL(F/R/C)	.	b	c	d
		X	MC1005	SH-S1A-124-000	ABSORBOR(F/R/C)	.	b	c	d
		X	MC1006	SK-A1A-141-MRK	COVER,BACK(F/R/C)	.	b	c	d
		O	MC1007	SJ-J3N-013-X00	TERMINAL(CENTER)	.	b	.	.
		O	MC1007	SJ-J3N-013-Z00	TERMINAL(FRONT)	.	.	c	.
		O	MC1007	SJ-J3N-013-Y00	TERMINAL(REAR)	.	.	.	d
		O	MC1051	SG-B1A-104-H41	BADGE,AIWA(MOLD)	a	.	.	.
		O	MC1052	SG-W1A-336-MPZ	PANEL,FRONT(SUB)	a	.	.	.
		X	MC1053	SK-D1A-038-000	PORT(SUB)	a	.	.	.
		X	MC1054	SK-A1A-143-Z00	CABINET(SUB)	a	.	.	.
		O	MC1055	SJ-J1A-001-W00	TERMINAL(SUB)	a	.	.	.
		O	MC1056	SA-S20-LP2-02S	WOOFER 8INCH(SUB)	a	.	.	.
		O	MC1057	SM-H1A-158-MP0	FRAME,NET(SUB)	a	.	.	.
		O	MC1A	SH-D1A-041-000	SCREW,SPECIAL(F/R/C)	.	b	c	d
		O	MC1B	ST-W41-2G0-000	SCREW,CTW4+12G	.	b	c	d
		O	MC1C	ST-B41-0AF-Z00	SCREW,CTB4+10AFZ	a	.	.	.

SPEAKER OTHER PARTS LIST -1/1

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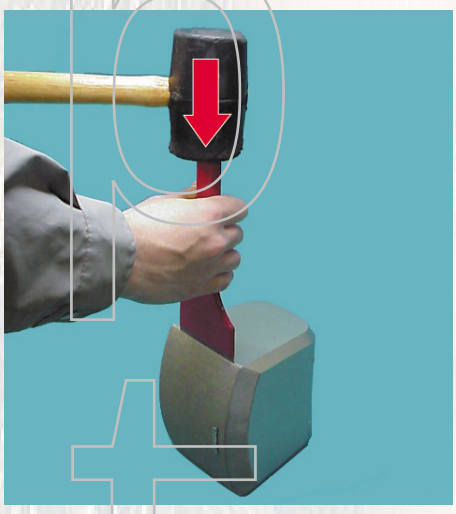
UNIT-NAME	!	C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL			
						TS-W90 WOOFER	SX-F90 CENTER	SX-F90 FRONT	SX-R90 SURRUND
		X		SQ-B1A-501-000	RATING,LABEL(SUB)	a	.	.	.
		X		SW-CSP-BAX-2SW	WIRE ASSY(SUB)	a	.	.	.
		X		SW-ZCS-PBA-X2S	WIRE ASSY(F/R/C)	.	b	c	d
		X		SQ-B1A-499-000	RATING,LABEL(CENTER)	.	b	.	.
		X		SQ-B1A-498-000	RATING,LABEL(FRONT)	.	.	c	.
		X		SQ-B1A-500-000	RATING,LABEL(REAR)	.	.	.	d

SPEAKER DISASSEMBLY INSTRUCTION -1/2

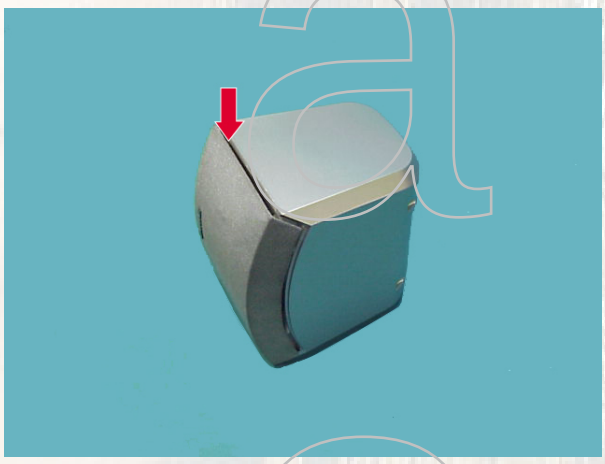
Preparation: A plastic head hammer (or rubber head hammer), a cut chisel

1. FRONT, SURROUND, CENTER Speaker Decomposition Method

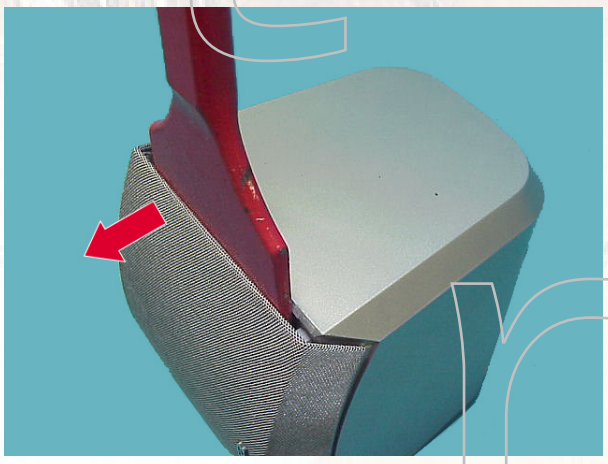
1) Insert a cut chisel in the crevice between a net and a cabinet. A hammer strikes lightly and a crevice is extended.



2) It put on reverse and also open the crevice by the side of opposite.



3) Put a cut chisel into a crevice and remove a panel.

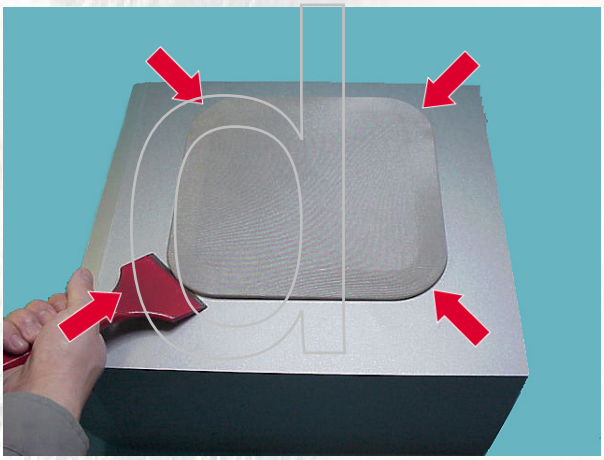


4) Remove four screws and remove a speaker.

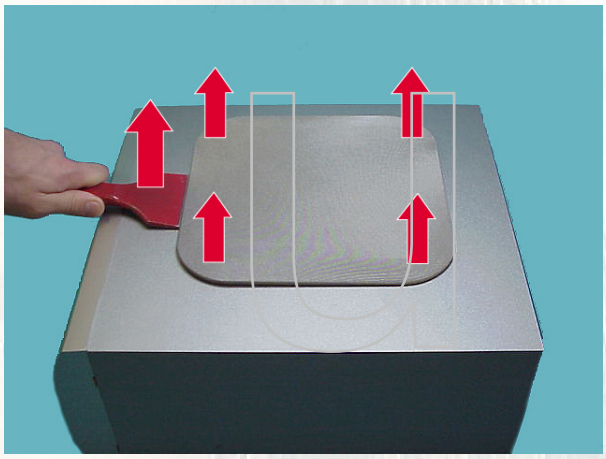
SPEAKER DISASSEMBLY INSTRUCTION -2/2

2. SUB WOOFR Decomposition Method

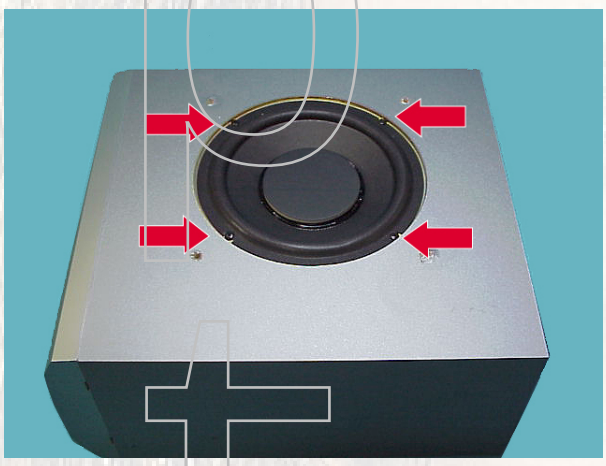
1) Extend a crevice, putting a cut chisel into the crevice between a net and a cabinet, and prying it lightly.

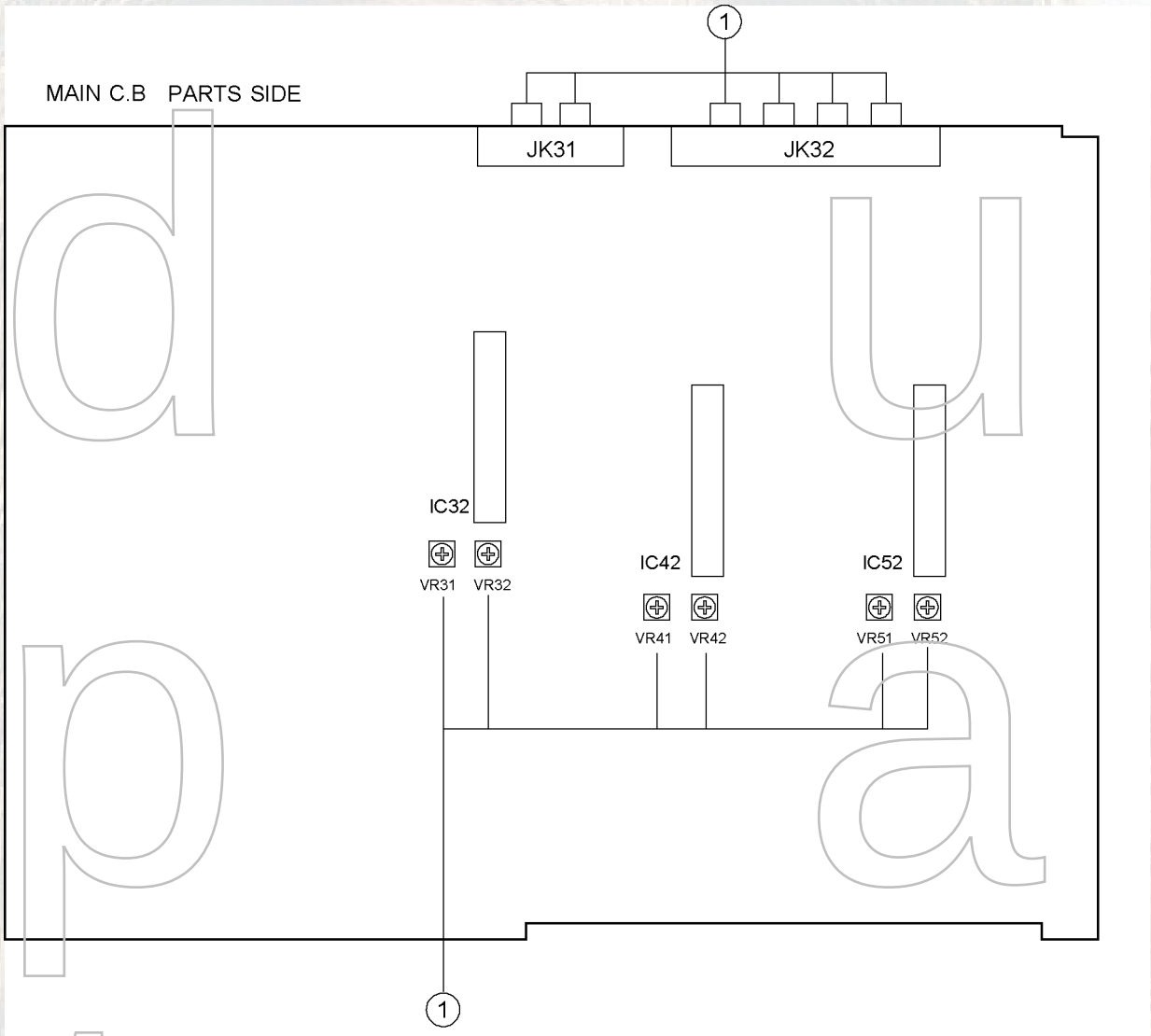


2) Being cautious of a boss (four places), extend a crevice and remove a panel.



3) Remove four screws and remove a speaker.





1. DC OFFSET ADJUSTMENT

Settings

Oscillator (DC range)

FUNCTION: DVD/CD (NO DISC)

Input side: With no input.

Output side: Dummy resistor (6 ohms)

Test point: SP OUT, JK31 (FRONT Lch,Rch)

JK41(SURROUND Lch,Rch / CENTER / SUB WOFER)

Adjustment location: VR31 (FRONT Lch)

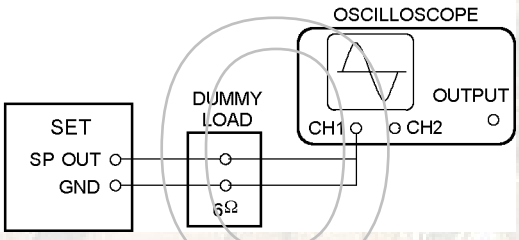
VR32 (FRONT Rch)

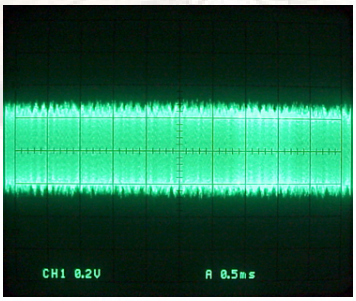
VR41 (CENTER Lch)

VR42 (SUB-WOOFER Lch)

VR51 (SURROUND Lch)

VR52 (SURROUND Lch)

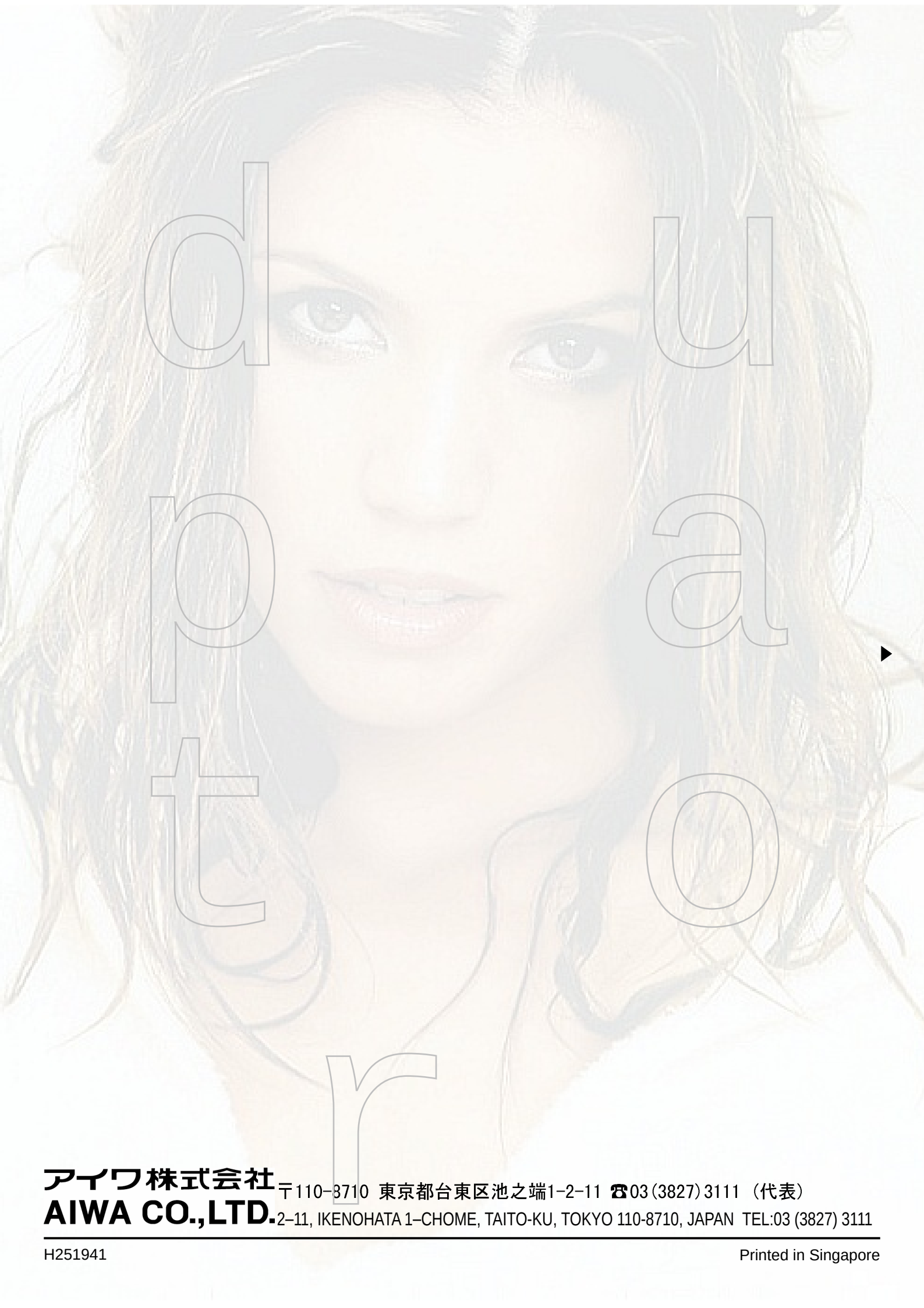




1) Please connect the probe of an oscilloscope with a dummy resistor (6 ohms) JK31 (FRONT Lch) of the SP OUT terminal of a set.

2) Please adjust VR31 so that the center of a noise becomes a center. (Refer to right figure).

3) Three Please adjust other channels similarly.



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