



CSD-A220

LH, HA

CSD-A229

LH

SERVICE MANUAL

CD STEREO RADIO
CASSETTE RECORDER

BASIC TAPE MECHANISM : TN-21ZVC-2000
BASIC CD MECHANISM : DA11T3C

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

aiwa

S/M Code No. 09-002-427-8T1

SIMPLE

DATA

ELECTRICAL MAIN PARTS LIST - 1/5

NOTE: The characters in the suffix column indicate the part usage.

| REF.NO | PARTS NO. | KANRI NO. | DESCRIPTION | SUFFIX |
|---------|----------------|-----------|----------------------|--------|
| 220LH | | XX | | A |
| 220HA | | XX | | B |
| 229LH | | XX | | C |
| C 605 | 87-010-264-040 | 0E | CAP,E 100-10 5L | ABC |
| C 601 | 87-010-313-080 | 0E | CAP, CHIP 18P | ABC |
| C 602 | 87-010-315-080 | 0E | C-CAP,S 27P-50 CH | ABC |
| C 604 | 87-010-317-010 | 0E | CHIP CAP,S 39P CH | ABC |
| C 603 | 87-010-319-080 | 0E | C-CAP,S 56P-50 CH | ABC |
| C 609 | 87-010-400-080 | 0E | CAP, ELECT 0.47-50V | ABC |
| C 608 | 87-010-405-080 | 0E | CAP, ELECT 10-50V | ABC |
| C 607 | 87-010-452-080 | 0E | CAPACITOR,1-16 | ABC |
| C 606 | 87-010-805-080 | 0E | CAP, S 1-16 | ABC |
| C 618 | 87-010-166-080 | 0E | C-CAP,S 100P-50 SL | ABC |
| C 617 | 87-010-166-080 | 0E | C-CAP,S 100P-50 SL | ABC |
| C 614 | 87-010-312-080 | 0E | C-CAP,S 15P-50 CH | ABC |
| C 615 | 87-010-805-080 | 0E | CAP, S 1-16 | ABC |
| C 616 | 87-010-805-080 | 0E | CAP, S 1-16 | ABC |
| C 613 | 87-012-368-080 | 0E | C-CAP,S 0.1-50 F | ABC |
| C 611 | 87-A10-189-040 | 0E | CAP,E 220-10 | ABC |
| CN 601 | 87-099-033-010 | 0E | 16P 6216 H | ABC |
| CN 602 | 87-099-201-010 | 0E | CONN,8P 6216 H | ABC |
| CNA 604 | 8A-CD9-623-010 | | CONN ASSY,4P KEY | ABC |
| D 607 | 87-020-465-080 | 0E | DIODE,1SS133 (110MA) | ABC |
| D 602 | 87-020-465-080 | 0E | DIODE,1SS133 (110MA) | ABC |
| D 608 | 87-020-465-080 | 0E | DIODE,1SS133 (110MA) | ABC |
| D 601 | 87-020-465-080 | 0E | DIODE,1SS133 (110MA) | ABC |
| D 606 | 87-070-345-080 | 0E | DIODE,IN4148 | ABC |
| IC 604 | 8A-CD9-610-010 | | C-IC,LC865516A-*** | ABC |
| L 604 | 87-003-098-080 | 0E | COIL,2.2UH | ABC |
| L 605 | 87-003-098-080 | 0E | COIL,2.2UH | ABC |
| L 606 | 87-003-098-080 | 0E | COIL,2.2UH | ABC |
| L 609 | 87-003-098-080 | 0E | COIL,2.2UH | ABC |
| L 603 | 87-003-098-080 | 0E | COIL,2.2UH | ABC |
| L 601 | 87-003-098-080 | 0E | COIL,2.2UH | ABC |
| L 607 | 87-003-098-080 | 0E | COIL,2.2UH | ABC |
| L 602 | 87-003-098-080 | 0E | COIL,2.2UH | ABC |
| L 608 | 87-003-098-080 | 0E | COIL,2.2UH | ABC |
| LED 608 | 88-CD6-630-010 | | LED,934ID RED | ABC |
| LED 603 | 88-CD6-630-010 | | LED,934ID RED | ABC |
| LED 602 | 88-CD6-630-010 | | LED,934ID RED | ABC |
| LED 607 | 88-CD6-630-010 | | LED,934ID RED | ABC |
| LED 606 | 88-CD6-630-010 | | LED,934ID RED | ABC |
| LED 611 | 87-CD8-616-010 | | LED,SA36-11 HWA-11.0 | ABC |
| LED 610 | 88-CD6-631-010 | | LED,934GD GRN | ABC |
| Q 603 | 87-026-237-080 | 0E | CHIP-TR,DTC124XX | ABC |
| Q 608 | 87-026-464-010 | 0E | TR,DTC114TS | ABC |
| Q 606 | 87-026-464-010 | 0E | TR,DTC114TS | ABC |
| Q 607 | 87-026-464-010 | 0E | TR,DTC114TS | ABC |
| Q 604 | 89-317-403-080 | 0E | TR,2SC1740S | ABC |
| Q 610 | 87-026-463-080 | 0E | TR,2SA933S (0.3W) | ABC |
| Q 613 | 87-026-464-010 | 0E | TR,DTC114TS | ABC |
| S 604 | 87-A91-704-080 | | SW,TACT EVQ 214 05R | ABC |
| S 602 | 87-A91-704-080 | | SW,TACT EVQ 214 05R | ABC |
| S 605 | 87-A91-704-080 | | SW,TACT EVQ 214 05R | ABC |
| S 609 | 87-A91-704-080 | | SW,TACT EVQ 214 05R | ABC |
| S 603 | 87-A91-704-080 | | SW,TACT EVQ 214 05R | ABC |
| S 601 | 87-A91-704-080 | | SW,TACT EVQ 214 05R | ABC |
| S 611 | 87-A91-704-080 | | SW,TACT EVQ 214 05R | ABC |
| X 601 | 87-030-273-010 | 1A | VIB,XTAL 32.768K5PPM | ABC |
| X 602 | 87-030-376-080 | 1A | VIB,CER CSA5.76MG200 | ABC |
| CN 204 | 87-A60-685-010 | 0E | CONN,4P H WHT EH | ABC |
| CN 605 | 87-A60-114-010 | 0E | CONN,4P H S2M-4WR | ABC |
| CNA 203 | 8A-CD9-628-010 | | CONN ASSY,3P MA-HP | ABC |
| J 251 | 87-A60-569-010 | | JACK,HTJ-035-18 | ABC |
| S 608 | 87-A91-704-080 | | SW,TACT EVQ 214 05R | ABC |
| S 606 | 87-A91-704-080 | | SW,TACT EVQ 214 05R | ABC |
| S 607 | 87-A91-704-080 | | SW,TACT EVQ 214 05R | ABC |
| S 614 | 87-A91-704-080 | | SW,TACT EVQ 214 05R | ABC |
| S 615 | 87-A91-704-080 | | SW,TACT EVQ 214 05R | ABC |
| C 903 | 87-010-192-080 | 0E | C-CAP,S 0.022-50 F | ABC |
| C 901 | 87-010-192-080 | 0E | C-CAP,S 0.022-50 F | ABC |
| C 902 | 87-010-192-080 | 0E | C-CAP,S 0.022-50 F | ABC |
| C 904 | 87-010-192-080 | 0E | C-CAP,S 0.022-50 F | ABC |
| CNA 901 | 8A-CD9-627-010 | | CONN ASSY,3P PWR | ABC |
| D 903 | 87-A40-465-010 | 0E | DIODE,FR202 | ABC |
| D 902 | 87-A40-465-010 | 0E | DIODE,FR202 | ABC |
| D 904 | 87-A40-465-010 | 0E | DIODE,FR202 | ABC |
| D 901 | 87-A40-465-010 | 0E | DIODE,FR202 | ABC |
| PR 901 | 87-A90-092-080 | 1A | PROTECTOR,2.5A 491 | ABC |
| SP 903 | 87-CD6-213-010 | | SPR-C,BATT (-) | ABC |
| SP 902 | 87-CD6-213-010 | | SPR-C,BATT (-) | ABC |
| SP 901 | 87-CD6-213-010 | | SPR-C,BATT (-) | ABC |

ELECTRICAL MAIN PARTS LIST - 2/5

| | | | | |
|----|-----|----------------|--------------------------------|-----|
| SP | 904 | 87-CD6-213-010 | SPR-C, BATT (-) | ABC |
| C | 211 | 87-010-805-080 | OE CAP, S 1-16 | ABC |
| C | 212 | 87-010-805-080 | OE CAP, S 1-16 | ABC |
| C | 216 | 87-016-460-080 | OE C-CAP, S 0.22-16 B | ABC |
| C | 215 | 87-016-460-080 | OE C-CAP, S 0.22-16 B | ABC |
| C | 239 | 87-010-197-080 | OE CAP, CHIP 0.01 DM | ABC |
| C | 232 | 87-010-213-080 | OE C-CAP, S 0.015-50 B | ABC |
| C | 231 | 87-010-213-080 | OE C-CAP, S 0.015-50 B | ABC |
| C | 237 | 87-010-408-080 | OE CAP, ELECT 47-50V | ABC |
| C | 239 | 87-010-805-080 | OE CAP, S 1-16 | ABC |
| C | 235 | 87-016-669-080 | OE C-CAP, S 0.1-25 K B | ABC |
| C | 236 | 87-016-669-080 | OE C-CAP, S 0.1-25 K B | ABC |
| C | 234 | 87-A10-201-080 | OE C-CAP, S0.33-16 KB | ABC |
| C | 233 | 87-A10-201-080 | OE C-CAP, S0.33-16 KB | ABC |
| C | 240 | 87-010-197-080 | OE CAP, CHIP 0.01 DM | ABC |
| C | 240 | 87-010-805-080 | OE CAP, S 1-16 | ABC |
| C | 310 | 87-010-248-080 | OE CAP, ELECT 220-10V | ABC |
| C | 483 | 87-012-156-080 | OE C-CAP, S 220P-50 CH | ABC |
| C | 484 | 87-012-156-080 | OE C-CAP, S 220P-50 CH | ABC |
| C | 819 | 87-010-426-080 | OE C-CAP, S 0.012-25 B | ABC |
| C | 820 | 87-010-426-080 | OE C-CAP, S 0.012-25 B | ABC |
| D | 310 | 87-020-465-080 | OE DIODE, 1SS133 (110MA) | ABC |
| IC | 203 | 87-A21-443-040 | C-IC, M62495AFP | ABC |
| IC | 203 | 87-A21-520-040 | C-IC, M61509FP | ABC |
| C | 267 | 87-010-112-080 | OE CAP, ELECT 100-16V | ABC |
| C | 268 | 87-010-112-080 | OE CAP, ELECT 100-16V | ABC |
| C | 264 | 87-010-178-080 | OE CHIP CAP 1000P | ABC |
| C | 263 | 87-010-178-080 | OE CHIP CAP 1000P | ABC |
| C | 266 | 87-010-263-080 | OE CAP, ELECT 100-10V | ABC |
| C | 265 | 87-010-263-080 | OE CAP, ELECT 100-10V | ABC |
| C | 262 | 87-010-402-080 | OE CAP, ELECT 2.2-50V | ABC |
| C | 261 | 87-010-402-080 | OE CAP, ELECT 2.2-50V | ABC |
| C | 271 | 87-010-237-080 | 1A CAP, ELECT 1000-16V | ABC |
| C | 272 | 87-010-237-080 | 1A CAP, ELECT 1000-16V | ABC |
| C | 279 | 87-010-385-080 | OE CAP, ELECT 220-25V | ABC |
| C | 278 | 87-010-405-080 | OE CAP, ELECT 10-50V | ABC |
| CN | 202 | 8A-CH4-689-010 | CONN, 3P V 2.5 | ABC |
| IC | 202 | 87-A21-064-010 | 1D IC, LA4227 | ABC |
| C | 308 | 87-010-221-080 | OE CAP, ELECT 470-10V | ABC |
| C | 307 | 87-010-401-080 | OE CAP, ELECT 1-50V | ABC |
| C | 306 | 87-010-404-080 | OE CAP, ELECT 4.7-50V | ABC |
| C | 301 | 87-016-495-000 | 1B CAP, E 3300-25 M SMG | ABC |
| C | 311 | 87-010-374-080 | OE CAP, ELECT 47-10V | ABC |
| C | 312 | 87-010-385-080 | OE CAP, ELECT 220-25V | ABC |
| C | 325 | 87-010-405-080 | OE CAP, ELECT 10-50V | ABC |
| CN | 301 | 8A-CH4-689-010 | CONN, 3P V 2.5 | ABC |
| D | 305 | 87-070-345-080 | OE DIODE, IN4148 | ABC |
| D | 306 | 87-070-345-080 | OE DIODE, IN4148 | ABC |
| D | 303 | 87-070-345-080 | OE DIODE, IN4148 | ABC |
| D | 304 | 87-A40-648-080 | OE ZENER, MTZJ8.2A | ABC |
| D | 311 | 87-027-702-080 | OE DIODE, ZENER HZ6C2L (200MA) | ABC |
| Q | 303 | 87-026-291-080 | 1A TR, DTC124XS | ABC |
| Q | 305 | 87-026-462-080 | OE TR, 2SC1740 S (RS 0.3W) | ABC |
| Q | 302 | 87-026-463-080 | OE TR, 2SA933S (0.3W) | ABC |
| Q | 301 | 89-112-965-080 | OE TR, 2SA1296 (0.75W) | ABC |
| Q | 304 | 89-213-702-080 | 1A TR, 2SB1370E | ABC |
| Q | 310 | 89-318-154-080 | OE TR, 2SC1815 (0.4W) | ABC |
| C | 30 | 87-010-260-080 | OE CAP, ELECT 47-25V | ABC |
| C | 801 | 87-010-248-080 | OE CAP, ELECT 220-10V | ABC |
| C | 808 | 87-010-405-080 | OE CAP, ELECT 10-50V | ABC |
| C | 807 | 87-010-405-080 | OE CAP, ELECT 10-50V | ABC |
| C | 809 | 87-010-405-080 | OE CAP, ELECT 10-50V | ABC |
| C | 806 | 87-012-365-080 | OE C-CAP, S 0.027-25VBK | ABC |
| C | 805 | 87-012-365-080 | OE C-CAP, S 0.027-25VBK | ABC |
| C | 811 | 87-010-178-080 | OE CHIP CAP 1000P | ABC |
| C | 812 | 87-010-178-080 | OE CHIP CAP 1000P | ABC |
| C | 817 | 87-010-180-080 | OE C-CER 1500P | ABC |
| C | 816 | 87-010-180-080 | OE C-CER 1500P | ABC |
| C | 810 | 87-010-405-080 | OE CAP, ELECT 10-50V | ABC |
| C | 829 | 87-010-178-080 | OE CHIP CAP 1000P | ABC |
| C | 824 | 87-010-178-080 | OE CHIP CAP 1000P | ABC |
| C | 823 | 87-010-178-080 | OE CHIP CAP 1000P | ABC |
| C | 821 | 87-010-401-080 | OE CAP, ELECT 1-50V | ABC |
| C | 822 | 87-010-401-080 | OE CAP, ELECT 1-50V | ABC |
| C | 830 | 87-010-178-080 | OE CHIP CAP 1000P | ABC |
| C | 831 | 87-010-198-080 | OE CAP, CHIP 0.022 | ABC |
| C | 834 | 87-010-248-080 | OE CAP, ELECT 220-10V | ABC |
| C | 835 | 87-010-322-080 | OE C-CAP, S 100P-50 CH | ABC |
| C | 836 | 87-010-322-080 | OE C-CAP, S 100P-50 CH | ABC |
| C | 833 | 87-018-195-080 | OE CAP, CER 1200P-16V | ABC |
| C | 845 | 87-010-178-080 | OE CHIP CAP 1000P | ABC |
| C | 843 | 87-010-197-080 | OE CAP, CHIP 0.01 DM | ABC |
| C | 846 | 87-010-263-080 | OE CAP, ELECT 100-10V | ABC |
| C | 844 | 87-018-124-080 | OE CAP, CER 270P-50V | ABC |
| C | 852 | 87-010-178-080 | OE CHIP CAP 1000P | ABC |
| C | 851 | 87-010-186-080 | OE CAP, CHIP 4700P | ABC |
| C | 853 | 87-018-211-080 | OE CAP, CER 0.01-50 | ABC |

ELECTRICAL MAIN PARTS LIST - 3/5

| | | | | |
|----|-----|----------------|----------------------------|-----|
| C | 853 | 87-A11-145-080 | CAP,TC U 0.01-50 Z F | AB |
| CN | 801 | 87-A60-110-010 | 0E CONN,4P V S2M-4W | ABC |
| CN | 802 | 8A-CH4-687-010 | CONN,4P V 2.5 | ABC |
| D | 308 | 87-017-978-080 | 0E DIODE,1N4003 | ABC |
| D | 309 | 87-070-345-080 | 0E DIODE,IN4148 | ABC |
| D | 809 | 87-020-465-080 | 0E DIODE,1SS133 (110MA) | ABC |
| D | 808 | 87-070-345-080 | 0E DIODE,IN4148 | ABC |
| D | 807 | 87-070-345-080 | 0E DIODE,IN4148 | ABC |
| D | 810 | 87-020-465-080 | 0E DIODE,1SS133 (110MA) | ABC |
| IC | 801 | 87-A21-431-010 | IC,BA4560N | ABC |
| L | 801 | 87-007-342-010 | 0E COIL,OSC 85K BIAS | ABC |
| Q | 801 | 89-318-154-080 | 0E TR,2SC1815 (0.4W) | ABC |
| Q | 810 | 87-026-464-080 | 0E TR,DTC114TS (0.3W) | ABC |
| R | 840 | 87-029-124-010 | 0E RES,FUSE 2.2-1/4 | ABC |
| SW | 801 | 8Z-CD9-609-010 | SW,SL 1-6-2 PS62D01 | ABC |
| C | 321 | 87-010-197-080 | 0E CAP,CHIP 0.01 DM | ABC |
| C | 322 | 87-010-263-080 | 0E CAP,ELECT 100-10V | ABC |
| CN | 201 | 87-099-018-010 | 0E CONN,16P | ABC |
| CN | 302 | 8A-CD9-629-010 | CONN ASSY,6P MA-TU | ABC |
| D | 32 | 87-027-399-080 | 0E ZENER,HZ7A3L (200MA) | ABC |
| D | 32 | 87-027-607-080 | 0E ZENER,HZ7B3L | ABC |
| D | 323 | 87-070-345-080 | 0E DIODE,IN4148 | ABC |
| Q | 321 | 89-318-154-080 | 0E TR,2SC1815 (0.4W) | ABC |
| Q | 841 | 87-026-291-080 | 1A TR,DTC124XS | ABC |
| C | 407 | 87-010-178-080 | 0E CHIP CAP 1000P | ABC |
| C | 402 | 87-010-197-080 | 0E CAP,CHIP 0.01 DM | ABC |
| C | 405 | 87-010-197-080 | 0E CAP,CHIP 0.01 DM | ABC |
| C | 408 | 87-010-198-080 | 0E CAP,CHIP 0.022 | ABC |
| C | 409 | 87-010-248-080 | 0E CAP,ELECT 220-10V | ABC |
| C | 404 | 87-010-248-080 | 0E CAP,ELECT 220-10V | ABC |
| C | 403 | 87-010-263-080 | 0E CAP,ELECT 100-10V | ABC |
| C | 406 | 87-010-374-080 | 0E CAP,ELECT 47-10V | ABC |
| C | 401 | 87-010-403-080 | 0E CAP,ELECT 3.3-50V | ABC |
| C | 418 | 87-010-213-080 | 0E C-CAP,S 0.015-50 B | ABC |
| C | 410 | 87-010-263-080 | 0E CAP,ELECT 100-10V | ABC |
| C | 412 | 87-010-401-080 | 0E CAP,ELECT 1-50V | ABC |
| C | 414 | 87-010-405-080 | 0E CAP,ELECT 10-50V | ABC |
| C | 416 | 87-010-545-080 | 0E CAP,ELECT 0.22-50V | ABC |
| C | 417 | 87-012-157-080 | 0E C-CAP,S 330P-50 CH | ABC |
| C | 413 | 87-016-369-080 | 0E C-CAP,S 0.033-25 B K | ABC |
| C | 411 | 87-A11-177-080 | 0E C-CAP,S 0.15-16 K B | ABC |
| C | 419 | 87-A11-608-080 | C-CAP,S 0.33-25 K B | ABC |
| C | 425 | 87-010-176-080 | 0E C-CAP,S 680P-50 SL | ABC |
| C | 422 | 87-010-184-080 | 0E CHIP CAPACITOR 3300P(K) | ABC |
| C | 429 | 87-010-186-080 | 0E CAP,CHIP 4700P | ABC |
| C | 428 | 87-010-197-080 | 0E CAP,CHIP 0.01 DM | ABC |
| C | 423 | 87-010-992-080 | 0E C-CAP,S 0.047-25 B | ABC |
| C | 420 | 87-016-369-080 | 0E C-CAP,S 0.033-25 B K | ABC |
| C | 424 | 87-016-460-080 | 0E C-CAP,S 0.22-16 B | ABC |
| C | 421 | 87-A11-177-080 | 0E C-CAP,S 0.15-16 K B | ABC |
| C | 426 | 87-A11-608-080 | C-CAP,S 0.33-25 K B | ABC |
| C | 439 | 87-010-178-080 | 0E CHIP CAP 1000P | ABC |
| C | 434 | 87-010-184-080 | 0E CHIP CAPACITOR 3300P(K) | ABC |
| C | 435 | 87-010-197-080 | 0E CAP,CHIP 0.01 DM | ABC |
| C | 432 | 87-010-374-080 | 0E CAP,ELECT 47-10V | ABC |
| C | 436 | 87-010-374-080 | 0E CAP,ELECT 47-10V | ABC |
| C | 433 | 87-010-401-080 | 0E CAP,ELECT 1-50V | ABC |
| C | 437 | 87-010-404-080 | 0E CAP,ELECT 4.7-50V | ABC |
| C | 431 | 87-010-545-080 | 0E CAP,ELECT 0.22-50V | ABC |
| C | 430 | 87-012-156-080 | 0E C-CAP,S 220P-50 CH | ABC |
| C | 438 | 87-016-669-080 | 0E C-CAP,S 0.1-25 K B | ABC |
| C | 441 | 87-010-197-080 | 0E CAP,CHIP 0.01 DM | ABC |
| C | 442 | 87-010-313-080 | 0E CAP,CHIP 18P | ABC |
| C | 448 | 87-010-315-080 | 0E C-CAP,S 27P-50 CH | ABC |
| C | 447 | 87-012-368-080 | 0E C-CAP,S 0.1-50 F | ABC |
| C | 446 | 87-012-368-080 | 0E C-CAP,S 0.1-50 F | ABC |
| C | 445 | 87-012-368-080 | 0E C-CAP,S 0.1-50 F | ABC |
| C | 455 | 87-010-247-080 | 0E CAP,ELECT 100-50V | ABC |
| C | 459 | 87-010-263-080 | 0E CAP,ELECT 100-10V | ABC |
| C | 458 | 87-010-312-080 | 0E C-CAP,S 15P-50 CH | ABC |
| C | 457 | 87-010-312-080 | 0E C-CAP,S 15P-50 CH | ABC |
| C | 450 | 87-012-140-080 | 0E CAP 470P | ABC |
| C | 451 | 87-012-156-080 | 0E C-CAP,S 220P-50 CH | ABC |
| C | 463 | 87-010-197-080 | 0E CAP,CHIP 0.01 DM | ABC |
| C | 461 | 87-010-197-080 | 0E CAP,CHIP 0.01 DM | ABC |
| C | 462 | 87-010-248-080 | 0E CAP,ELECT 220-10V | ABC |
| C | 467 | 87-010-263-080 | 0E CAP,ELECT 100-10V | ABC |
| C | 465 | 87-010-404-080 | 0E CAP,ELECT 4.7-50V | ABC |
| C | 469 | 87-012-154-080 | 0E C-CAP,S 150P-50 CH | ABC |
| C | 466 | 87-012-368-080 | 0E C-CAP,S 0.1-50 F | ABC |
| C | 460 | 87-015-819-080 | 0E CAPACITOR,0.01 | ABC |
| C | 475 | 87-010-197-080 | 0E CAP,CHIP 0.01 DM | ABC |
| C | 479 | 87-010-197-080 | 0E CAP,CHIP 0.01 DM | ABC |
| C | 477 | 87-010-197-080 | 0E CAP,CHIP 0.01 DM | ABC |
| C | 476 | 87-010-236-080 | 0E CAP,E 1000-10 SME | ABC |
| C | 478 | 87-010-263-080 | 0E CAP,ELECT 100-10V | ABC |
| C | 470 | 87-010-544-080 | 0E CAP,ELECT 0.1-50V | ABC |

ELECTRICAL MAIN PARTS LIST - 4/5

| | | | | | |
|-----|-----|----------------|----|-----------------------------|----------|
| C | 473 | 87-015-785-080 | 0E | CHIP CAPACITOR, 0.1FZ-25Z | ABC..... |
| C | 471 | 87-015-785-080 | 0E | CHIP CAPACITOR, 0.1FZ-25Z | ABC..... |
| C | 474 | 87-015-785-080 | 0E | CHIP CAPACITOR, 0.1FZ-25Z | ABC..... |
| C | 472 | 87-015-785-080 | 0E | CHIP CAPACITOR, 0.1FZ-25Z | ABC..... |
| C | 480 | 87-010-221-080 | 0E | CAP, ELECT 470-10V | ABC..... |
| C | 482 | 87-010-405-080 | 0E | CAP, ELECT 10-50V | ABC..... |
| C | 481 | 87-010-405-080 | 0E | CAP, ELECT 10-50V | ABC..... |
| C | 489 | 87-012-368-080 | 0E | C-CAP,S 0.1-50 F | ABC..... |
| C | 494 | 87-010-197-080 | 0E | CAP, CHIP 0.01 DM | ABC..... |
| C | 490 | 87-012-368-080 | 0E | C-CAP,S 0.1-50 F | ABC..... |
| C | 505 | 87-010-322-080 | 0E | C-CAP,S 100P-50 CH | ABC..... |
| C | 503 | 87-010-322-080 | 0E | C-CAP,S 100P-50 CH | ABC..... |
| C | 502 | 87-010-322-080 | 0E | C-CAP,S 100P-50 CH | ABC..... |
| C | 504 | 87-010-322-080 | 0E | C-CAP,S 100P-50 CH | ABC..... |
| C | 506 | 87-010-322-080 | 0E | C-CAP,S 100P-50 CH | ABC..... |
| C | 501 | 87-012-368-080 | 0E | C-CAP,S 0.1-50 F | ABC..... |
| C | 510 | 87-016-669-080 | 0E | C-CAP,S 0.1-25 K B | ABC..... |
| CN | 205 | 87-A60-109-010 | 0E | CONN,2P V S2M-2W | ABC..... |
| CN | 403 | 87-099-201-010 | 0E | CONN,8P 6216 H | ABC..... |
| CN | 401 | 87-A60-424-010 | 0E | CONN,16P V TOC-B | ABC..... |
| CNA | 402 | 8A-CD9-625-010 | 0E | CONN ASSY,6P CD-ME | ABC..... |
| D | 401 | 87-070-345-080 | 0E | DIODE,IN4148 | ABC..... |
| D | 403 | 87-070-345-080 | 0E | DIODE,IN4148 | ABC..... |
| D | 402 | 87-070-345-080 | 0E | DIODE,IN4148 | ABC..... |
| IC | 401 | 87-A20-446-010 | 1E | C-IC,LA9241ML | ABC..... |
| IC | 402 | 87-A20-459-010 | 2A | C-IC,LC78622ED | ABC..... |
| IC | 404 | 87-A21-093-010 | 1C | IC,LA6541D | ABC..... |
| L | 401 | 87-003-102-080 | 0E | COIL, 10UH | ABC..... |
| L | 404 | 87-003-152-080 | 0E | COIL, 100UH | ABC..... |
| Q | 403 | 87-026-295-080 | 0E | TR,DTC144TK | ABC..... |
| Q | 408 | 87-026-295-080 | 0E | TR,DTC144TK | ABC..... |
| Q | 406 | 87-026-295-080 | 0E | TR,DTC144TK | ABC..... |
| Q | 407 | 87-026-295-080 | 0E | TR,DTC144TK | ABC..... |
| Q | 401 | 89-109-332-380 | 0E | TR,2SA933RS | ABC..... |
| Q | 402 | 89-113-187-080 | 0E | TR,2SA1318TU | ABC..... |
| SFR | 430 | 87-024-437-080 | 0E | SFR100K,RH063EC | ABC..... |
| X | 401 | 8Z-CD5-633-010 | 0E | VIB, CER16.93MHZ FCR16.93M2 | ABC..... |
| C | 491 | 87-010-197-080 | 0E | CAP, CHIP 0.01 DM | ABC..... |
| C | 492 | 87-010-221-080 | 0E | CAP, ELECT 470-10V | ABC..... |
| D | 491 | 87-070-345-080 | 0E | DIODE,IN4148 | ABC..... |
| D | 494 | 87-070-345-080 | 0E | DIODE,IN4148 | ABC..... |
| Q | 492 | 87-026-291-080 | 1A | TR,DTC124XS | ABC..... |
| Q | 491 | 89-112-965-080 | 0E | TR,2SA1296 (0.75W) | ABC..... |
| C | 4 | 87-010-148-080 | 0E | CAP, CHIP S 75P SL | ABC..... |
| C | 9 | 87-010-151-080 | 0E | C-CAP,S 7P-50 CH | ABC..... |
| C | 8 | 87-010-197-080 | 0E | CAP, CHIP 0.01 DM | ABC..... |
| C | 9 | 87-010-311-080 | 0E | CAP 12P | ABC..... |
| C | 1 | 87-010-314-080 | 0E | C-CAP,S 22P-50V | ABC..... |
| C | 3 | 87-010-314-080 | 0E | C-CAP,S 22P-50V | ABC..... |
| C | 2 | 87-010-316-080 | 0E | C-CAP,S 33P-50 CH | ABC..... |
| C | 2 | 87-010-318-080 | 0E | C-CAP,S 47P-50 CH | ABC..... |
| C | 5 | 87-010-378-080 | 0E | CAP, ELECT 10-16V | ABC..... |
| C | 7 | 87-012-154-080 | 0E | C-CAP,S 150P-50 CH | ABC..... |
| C | 7 | 87-012-156-080 | 0E | C-CAP,S 220P-50 CH | ABC..... |
| C | 11 | 87-010-148-080 | 0E | CAP, CHIP S 75P SL | ABC..... |
| C | 14 | 87-010-148-080 | 0E | CAP, CHIP S 75P SL | ABC..... |
| C | 11 | 87-010-152-080 | 0E | C-CAP,S 8P-50 CH | ABC..... |
| C | 16 | 87-010-178-080 | 0E | CHIP CAP 1000P | ABC..... |
| C | 10 | 87-010-197-080 | 0E | CAP, CHIP 0.01 DM | ABC..... |
| C | 18 | 87-010-198-080 | 0E | CAP, CHIP 0.022 | ABC..... |
| C | 12 | 87-010-314-080 | 0E | C-CAP,S 22P-50V | ABC..... |
| C | 13 | 87-010-322-080 | 0E | C-CAP,S 100P-50 CH | ABC..... |
| C | 13 | 87-012-156-080 | 0E | C-CAP,S 220P-50 CH | ABC..... |
| C | 15 | 87-016-669-080 | 0E | C-CAP,S 0.1-25 K B | ABC..... |
| C | 17 | 87-016-669-080 | 0E | C-CAP,S 0.1-25 K B | ABC..... |
| C | 19 | 87-016-669-080 | 0E | C-CAP,S 0.1-25 K B | ABC..... |
| C | 24 | 87-010-188-080 | 0E | CAP,CHIP 6800P | ABC..... |
| C | 25 | 87-010-188-080 | 0E | CAP,CHIP 6800P | ABC..... |
| C | 22 | 87-010-197-080 | 0E | CAP, CHIP 0.01 DM | ABC..... |
| C | 24 | 87-010-197-080 | 0E | CAP, CHIP 0.01 DM | ABC..... |
| C | 25 | 87-010-197-080 | 0E | CAP, CHIP 0.01 DM | ABC..... |
| C | 20 | 87-010-400-080 | 0E | CAP, ELECT 0.47-50V | ABC..... |
| C | 21 | 87-010-403-080 | 0E | CAP, ELECT 3.3-50V | ABC..... |
| C | 29 | 87-010-992-080 | 0E | C-CAP,S 0.047-25 B | ABC..... |
| C | 28 | 87-010-992-080 | 0E | C-CAP,S 0.047-25 B | ABC..... |
| C | 27 | 87-012-358-080 | 0E | C-CAP,S 0.47-10 F Z | ABC..... |
| C | 26 | 87-012-358-080 | 0E | C-CAP,S 0.47-10 F Z | ABC..... |
| C | 39 | 87-010-197-080 | 0E | CAP, CHIP 0.01 DM | ABC..... |
| C | 32 | 87-010-197-080 | 0E | CAP, CHIP 0.01 DM | ABC..... |
| C | 38 | 87-010-197-080 | 0E | CAP, CHIP 0.01 DM | ABC..... |
| C | 37 | 87-010-197-080 | 0E | CAP, CHIP 0.01 DM | ABC..... |
| C | 35 | 87-010-197-080 | 0E | CAP, CHIP 0.01 DM | ABC..... |
| C | 33 | 87-010-197-080 | 0E | CAP, CHIP 0.01 DM | ABC..... |
| C | 34 | 87-010-197-080 | 0E | CAP, CHIP 0.01 DM | ABC..... |
| C | 30 | 87-010-248-080 | 0E | CAP, ELECT 220-10V | ABC..... |
| C | 36 | 87-010-263-080 | 0E | CAP, ELECT 100-10V | ABC..... |
| C | 31 | 87-010-379-080 | 0E | CAP, ELECT 22-16V | ABC..... |

ELECTRICAL MAIN PARTS LIST - 5/5

| | | | | | |
|----|----|----------------|----|----------------------------------|----------|
| C | 56 | 87-010-148-080 | 0E | CAP, CHIP S 75P SL | ABC..... |
| C | 56 | 87-010-152-080 | 0E | C-CAP,S 8P-50 CH | |
| C | 51 | 87-010-197-080 | 0E | CAP, CHIP 0.01 DM | ABC..... |
| CF | 3 | 82-785-747-010 | 1A | CF MS2 GHY R | |
| CF | 2 | 82-785-747-010 | 1A | CF MS2 GHY R | |
| CF | 2 | 87-008-261-010 | 1A | FILTER, SFE10.7MA5-A | ABC..... |
| CF | 3 | 87-008-261-010 | 1A | FILTER, SFE10.7MA5-A | ABC..... |
| CF | 1 | 87-A90-128-010 | 0E | FLTR,AM IF CFAL-455 | ABC..... |
| CN | 2 | 87-A60-116-010 | | CONN,6P H S2M-6WR | ABC..... |
| D | 2 | 87-020-465-080 | 0E | DIODE,1SS133 (110MA) | ABC..... |
| D | 1 | 87-020-465-080 | 0E | DIODE,1SS133 (110MA) | ABC..... |
| D | 3 | 87-A40-128-080 | 0E | C-VARI-CAP,HVU202A | ABC..... |
| D | 13 | 87-A40-128-080 | 0E | C-VARI-CAP,HVU202A | |
| IC | 1 | 87-A20-955-010 | 1C | IC,LA1828 | ABC..... |
| L | 8 | 87-A50-335-010 | 1A | COIL,FM IFT (TOKO) | ABC..... |
| L | 6 | 87-A50-337-010 | 1A | COIL,AM OSC (TOKO) | ABC..... |
| L | 2 | 87-A50-560-010 | | COIL,FM BPF (ACD) | ABC..... |
| L | 4 | 87-A50-561-010 | | COIL,FM RF D (ACD) | |
| L | 4 | 87-A50-562-010 | | COIL,FM RF EX (ACD) | ABC..... |
| L | 5 | 87-A50-563-010 | | COIL,FM OSC D (ACD) | |
| L | 5 | 87-A50-564-010 | | COIL,FM OSC EX (ACD) | ABC..... |
| L | 9 | 87-A50-577-010 | | COIL,FM DET (ACD) | ABC..... |
| L | 7 | 87-A50-579-010 | | COIL,AM IFT (ACD) | ABC..... |
| L | 3 | 8A-CD9-660-010 | | BAR-ANT,MW 2B-ACD (COI) | ABC..... |
| L | 10 | 87-005-849-080 | 0E | COIL,10UH (CECS) | ABC..... |
| Q | 4 | 87-026-213-080 | 0E | CHIP-TR,DTC114YK | ABC..... |
| Q | 2 | 87-026-447-080 | 0E | TR,2SC1740S R | ABC..... |
| Q | 3 | 87-026-463-080 | 0E | TR,2SA933S (0.3W) | ABC..... |
| Q | 1 | 89-327-143-080 | 0E | TR,2SC2714 (0.1W) | ABC..... |
| S | 1 | 87-A91-548-010 | | SW,SL-2-3 SK23E01G06 | ABC..... |
| VC | 1 | 87-A91-167-010 | | TUN-CAP,20P-160P FA-22125 N000 | ABC..... |
| VC | 1 | 87-A91-169-010 | 1D | TUN-CAP,40P-140P FA-22124 AN00 | |
| VC | 1 | 87-A91-635-010 | | TUN-CAP,20P-140P E-ACD (MITSUMI) | |

MECHANICAL PARTS LIST - 1/1

NOTE: The characters in the suffix column indicate the part usage.

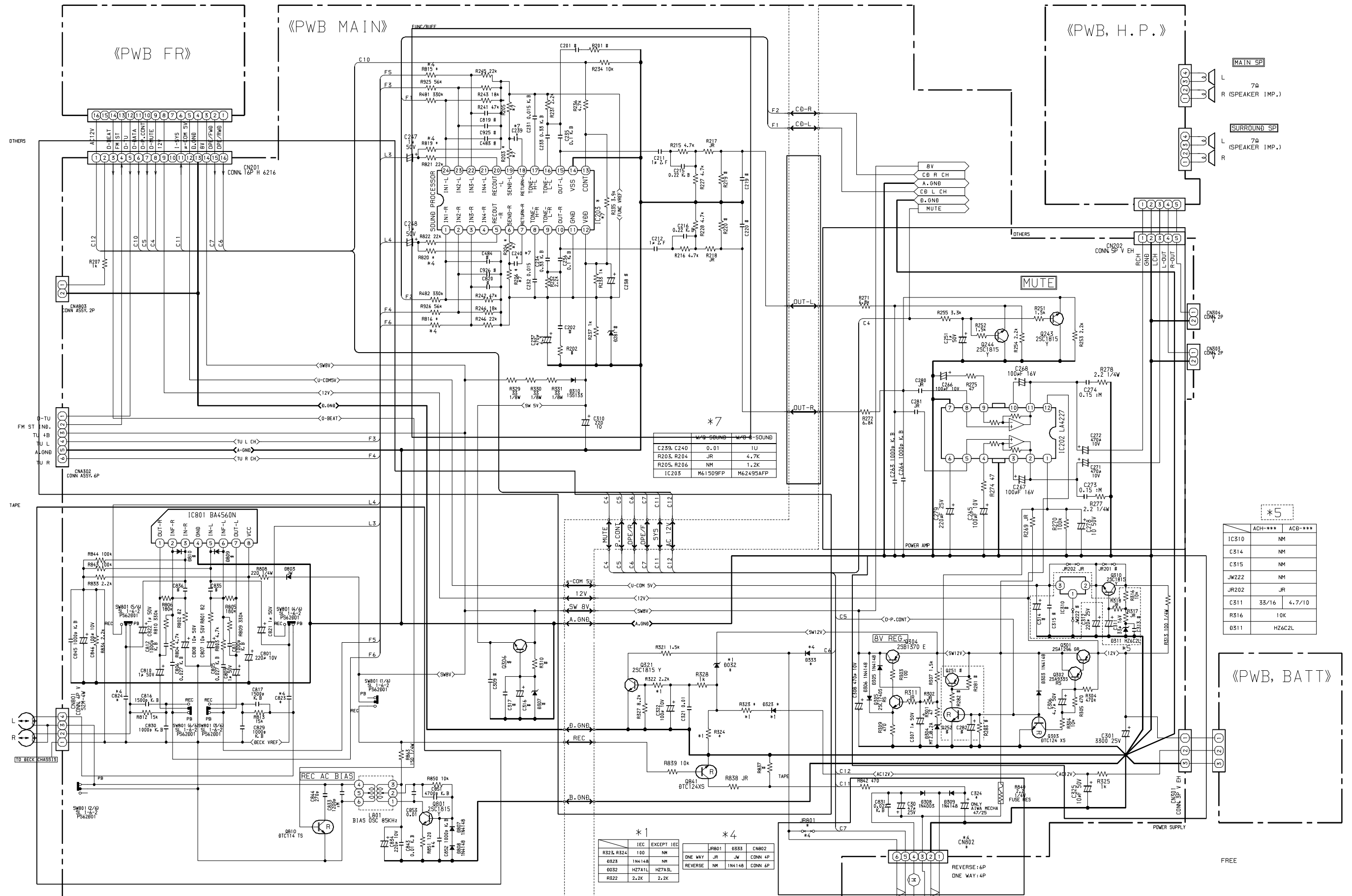
| REF.NO | PARTS NO. | KANRI NO. | DESCRIPTION | SUFFIX |
|-----------------------|-----------|-----------|----------------------------|--------|
| 220LH | | XX | | A |
| 220HA | | XX | | B |
| 229LH | | XX | | C |
| 87-B00-010-010 | | 0E | BADGE,AIWA 30.5-5.2 S 2.5L | ABC |
| 8A-CD9-004-010 | | | CABI, REAR B1 | ABC |
| 8A-CD9-005-010 | | | CHAS, CD A | ABC |
| 8A-CD9-010-010 | | | LID, BATT | ABC |
| 8A-CD9-011-010 | | | HANDL, ARM | ABC |
| 8A-CD9-012-010 | | | HANDL, GRIP | ABC |
| 8A-CD9-013-010 | | | PANEL, VOL | ABC |
| 8A-CD9-022-010 | | | LENS, LED | ABC |
| 8A-CD9-023-010 | | | POINTER, TU | ABC |
| 8A-CD9-024-010 | | | KEY, CASS TN21 | ABC |
| 8A-CD9-033-010 | | | WINDOW, LED | ABC |
| 8A-CD9-034-010 | | | WINDOW, TU U | ABC |
| 8A-CD9-074-010 | | | CABI, FR B1-2 ASSY | ABC |
| 8A-CD9-078-010 | | | BOX, CD LH | AB |
| 8A-CD9-081-010 | | | WINDOW, CD-X | ABC |
| 8A-CD9-082-010 | | | BOX, CASS-X | ABC |
| 8A-CD9-083-010 | | | WINDOW, CASS-X | ABC |
| 8A-CD9-088-010 | | | BOX, CD LH1 | C |
| 8Z-CDB-169-010 | | | PANEL, CD SANYO | ABC |
| 8A-CD9-014-010 | | | BTN, VOL | ABC |
| 8A-CD9-015-010 | | | BTN, CD A | ABC |
| 8A-CD9-016-010 | | | BTN, CD B | ABC |
| 8A-CD9-017-010 | | | BTN, QSOUND | ABC |
| 8A-CD9-026-010 | | | KNOB, RTRY TU | ABC |
| 8A-CD9-027-010 | | | KNOB, SL BAND | ABC |
| M8-ZZK-E90-070 | | | DA11T3C | ABC |
| 84-CD5-215-010 | | 0E | GEAR | ABC |
| 84-CD5-216-010 | | 0E | BRACKET | ABC |
| 84-CD5-217-010 | | | PLATE, MAGNET | ABC |
| 86-CT4-218-010 | | 0E | CUSHION, FOOT/PORON | ABC |
| 87-036-368-010 | | 0E | MAGNET | ABC |
| 87-CD6-213-010 | | | SPR-C, BATT (-) | ABC |
| 8A-CD9-206-010 | | | GEAR, TU A | ABC |
| 8A-CD9-207-010 | | | GEAR, TU B | ABC |
| 8A-CD9-208-010 | | | DRUM, TU | ABC |
| 8A-CD9-209-010 | | | LEVER, BAND A | ABC |
| 8A-CD9-223-010 | | | SPR-P, REC TN21 | ABC |
| 8A-CD9-231-010 | | | SPR-T, CD | ABC |
| 8A-CD9-232-010 | | | SPR-T, CASS | ABC |
| 8Z-CH4-211-010 | | | BASE, CHUCK | ABC |
| 8Z-CH4-212-010 | | | RING, CHUCK | ABC |
| 8Z-CH4-225-010 | | | HLDR, CHUCK A (S) | ABC |
| * 8A-CD9-201-010 | | | HLDR, DISPLAY | ABC |
| * 8A-CD9-202-010 | | | GUIDE, LED | ABC |
| * 8A-CD9-203-010 | | | GUIDE, VOL | ABC |
| * 8A-CD9-205-010 | | | GUIDE, GEAR | ABC |
| * 8A-CD9-211-010 | | | HLDR, PWB L | ABC |
| * 8A-CD9-212-010 | | | HLDR, PWB R | ABC |
| * 8A-CD9-221-010 | | | HLDR, ANT | ABC |
| * 8A-CD9-222-010 | | | HLDR, SPEAKER | ABC |
| * 8A-CH4-209-010 | | | HLDR, PT | ABC |
| 87-067-566-010 | | 0E | TAPPING SCREW, VFTT+3-6 | ABC |
| 87-251-073-410 | | 0E | SCREW, U+2.6-6 | ABC |
| 87-255-096-410 | | | U+3-10 NI | ABC |
| 87-342-074-010 | | 0E | UT2+2.6-8 | ABC |
| 87-352-075-210 | | 0E | VT2+2.6-10 | ABC |
| 87-571-032-410 | | 0E | VIT+2-3 | ABC |
| 87-571-033-410 | | 0E | TAPPING SCREW, VIT+2-4 | ABC |
| 87-661-095-410 | | 0E | VFT1+3-8 | ABC |
| 87-661-097-410 | | 0E | TAPPING SCREW, VFT1+3-12 | ABC |
| 87-741-096-410 | | 0E | UT2+3-10 | ABC |
| 87-B10-239-010 | | | QT2+3-8 W/O CR | ABC |
| 87-B10-242-010 | | | UT2+3-30 W/O CR | ABC |
| 87-B10-269-010 | | | UT2+3-12 W/O CR | ABC |
| 87-WA5-253-010 | | | W, 3.3-10-0.8 | ABC |
| * 87-751-094-410 | | 0E | VT2+3-6 W10SLOT | ABC |
| 8Z-CD5-634-010 | | | COVER, AC SOCKET | ABC |
| * 87-036-389-010 | | 1B | SW, PUSH LOCK | ABC |
| * 87-A60-178-010 | | | JACK, AC E W/SW | ABC |
| * 87-A91-369-010 | | | SW, AC SL 2 2 2 SDKGA41700 | ABC |
| * 8Z-CH4-640-010 | | | ANT, ROD | ABC |
| CNA 0 8A-CD9-626-010 | | | CONN ASSY, 2P DOOR | ABC |
| CNA 0 8A-CD9-630-010 | | | CONN ASSY, 4P RPH | ABC |
| CNA 0 8A-CD9-631-010 | | | CONN ASSY, 4P TP-ME | ABC |
| CNA 0 8A-CD9-633-010 | | | CONN ASSY, 4P SP | ABC |
| PT 901 8A-CD9-608-010 | | | PT, H 2.5W | ABC |
| SP 0 88-CD9-626-010 | | | SPKR, 100 7OHM 3W | ABC |
| W 0 8A-CD9-620-010 | | | FF-CABLE, 16P FR-MAIN | ABC |
| W 0 8A-CD9-621-010 | | | FF-CABLE, 16P CD-RF | ABC |
| W 0 8A-CD9-622-010 | | | FF-CABLE, 8P CD-FR | ABC |

ACCESSORIES / PACKAGE LIST - 1/1

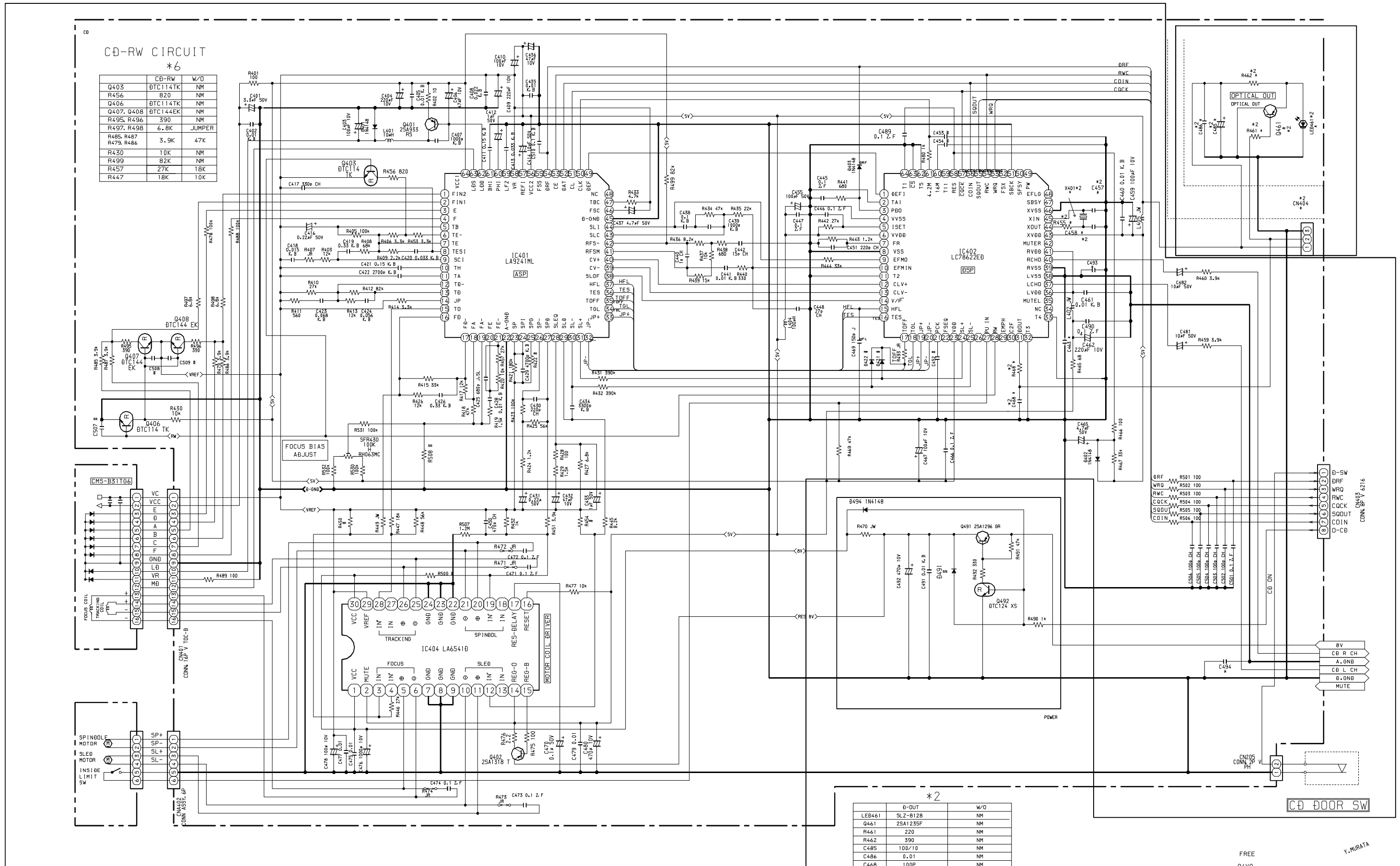
NOTE: The characters in the suffix column indicate the part usage.

| REF.NO | PARTS NO. | KANRI NO. | DESCRIPTION | SUFFIX |
|----------------|-----------|--------------|-------------------------------|--------|
| 220LH | | XX | | A |
| 220HA | | XX | | B |
| 229LH | | XX | | C |
| 8A-CD9-901-010 | | | IB,H(ECA)B | |
| 8A-CD9-902-010 | | | IB,LH(ESP)B | AB |
| 8A-CD9-908-010 | | | IB,D(J)B | |
| 8A-CD9-940-010 | | | IB,B-KIT | C |
| 87-A80-033-010 | 1C | | AC CORD SET,D BLK | |
| 87-A80-036-010 | | | AC CORD SET ASSY,E W/FLTR VOL | ABC |
| 87-A91-017-010 | 1A | | PLUG,CONVERSION JT-0476 | B |

SCHEMATIC DIAGRAM - 1 (MAIN : AMP)



SCHEMATIC DIAGRAM - 2 (MAIN : CD)



CD-RW CIRCUIT *6

| Q403 | CD-RW | W/O |
|------------|----------|--------|
| Q403 | DTC114TK | NM |
| R456 | 820 | NM |
| Q406 | DTC114TK | NM |
| Q407, Q408 | DTC144EK | NM |
| R495, R496 | 390 | NM |
| R497, R498 | 6.8K | JUMPER |
| R485, R487 | 3.9K | 47K |
| R479, R486 | | |
| R430 | 10K | NM |
| R499 | 82K | NM |
| R457 | 27K | 18K |
| R447 | 18K | 10K |

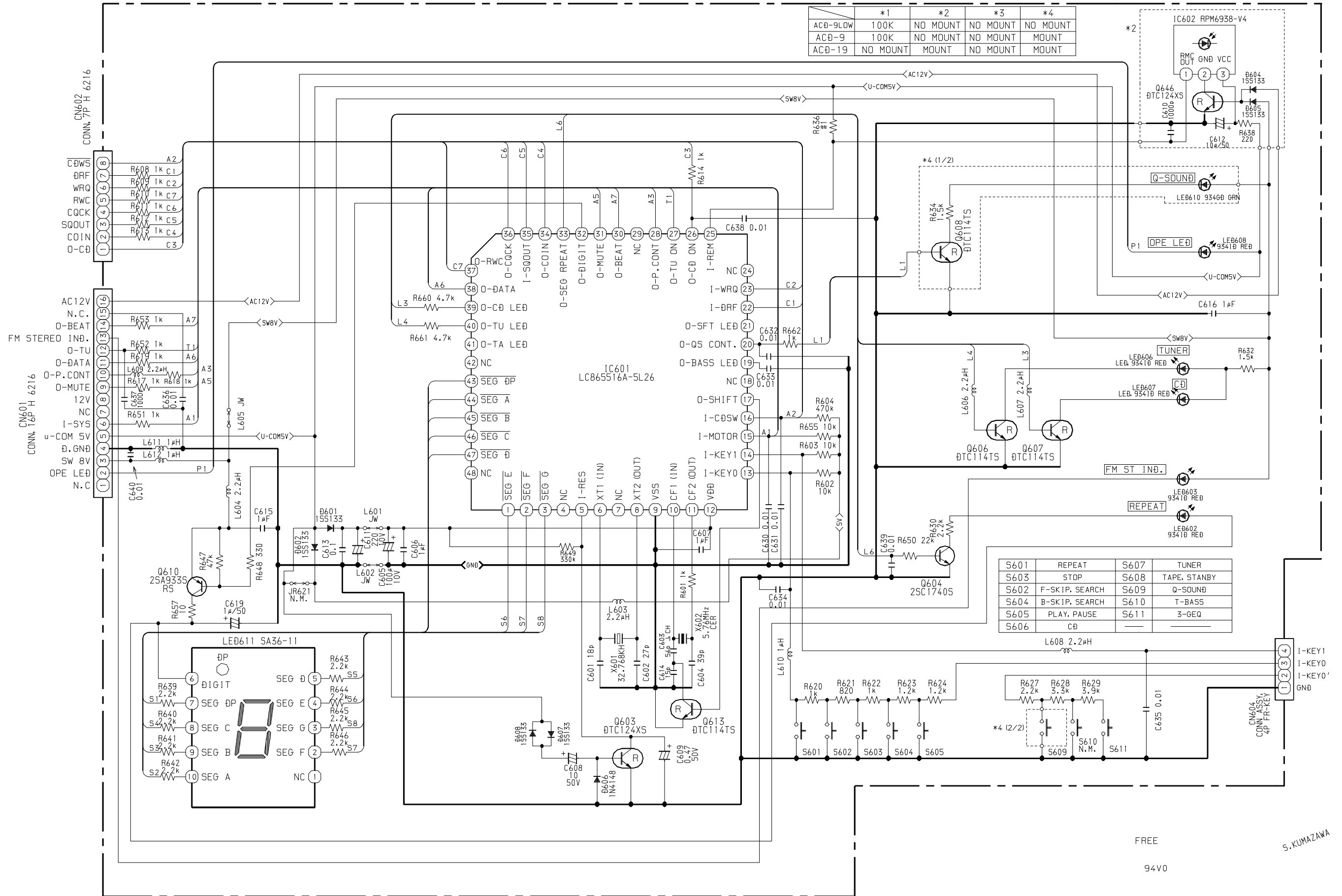
*2

| LEB461 | Q-OUT | W/O |
|------------|--------------------|------------------|
| LEB461 | SLZ-B128 | NM |
| Q461 | Z5A1235F | NM |
| R461 | 220 | NM |
| R462 | 390 | NM |
| C485 | 100/10 | NM |
| C486 | 0.01 | NM |
| C468 | 100P | NM |
| R468 | 100 | NM |
| R455 | 1K | 100 |
| C457, C458 | 3SP | 15P |
| X401 | VIB. X TALI6.93MHZ | VIB. CER16.93MHZ |

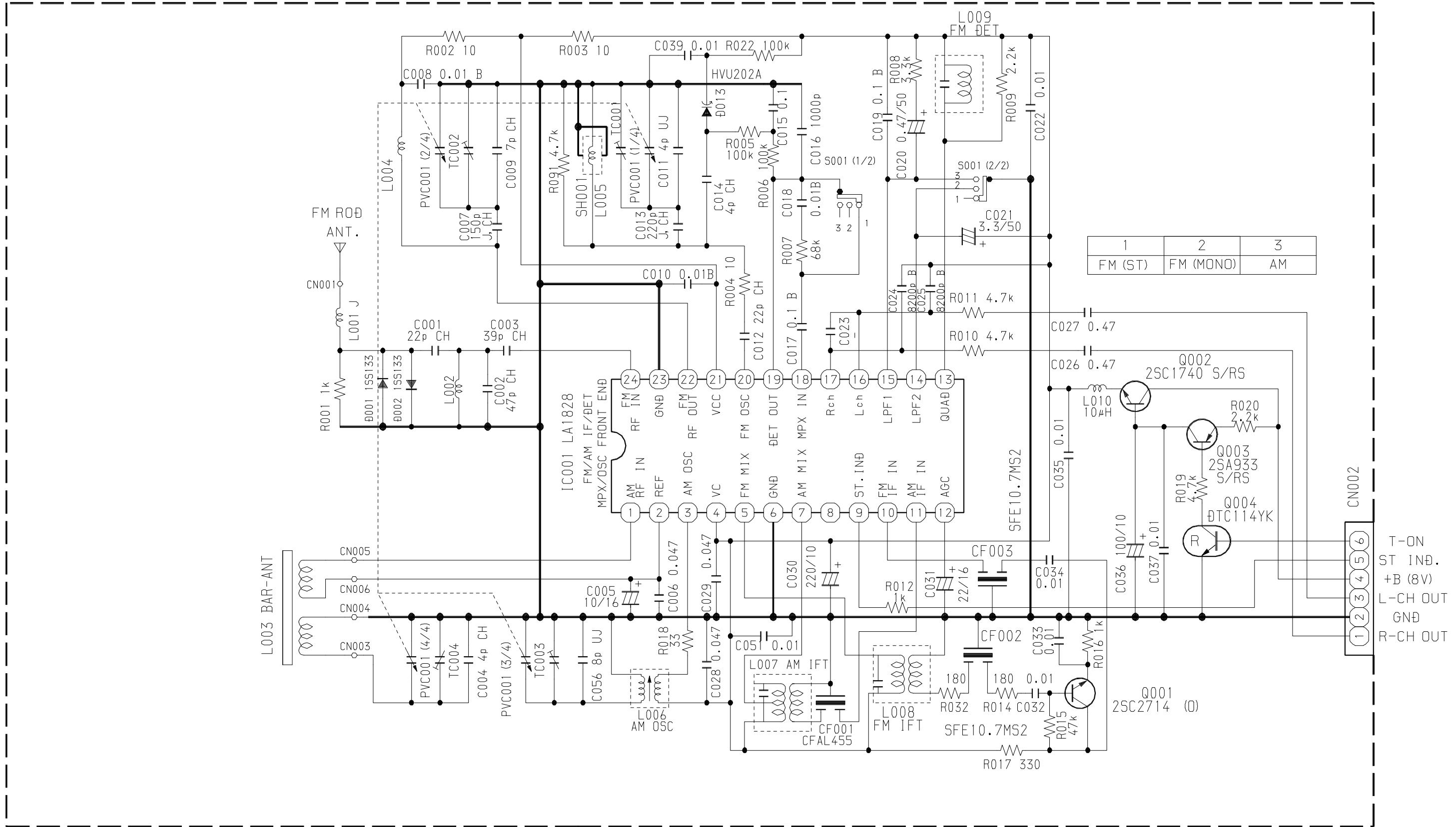
FREE 94V0 CD SCHEMATIC DIAGRAM

Y.MURATA

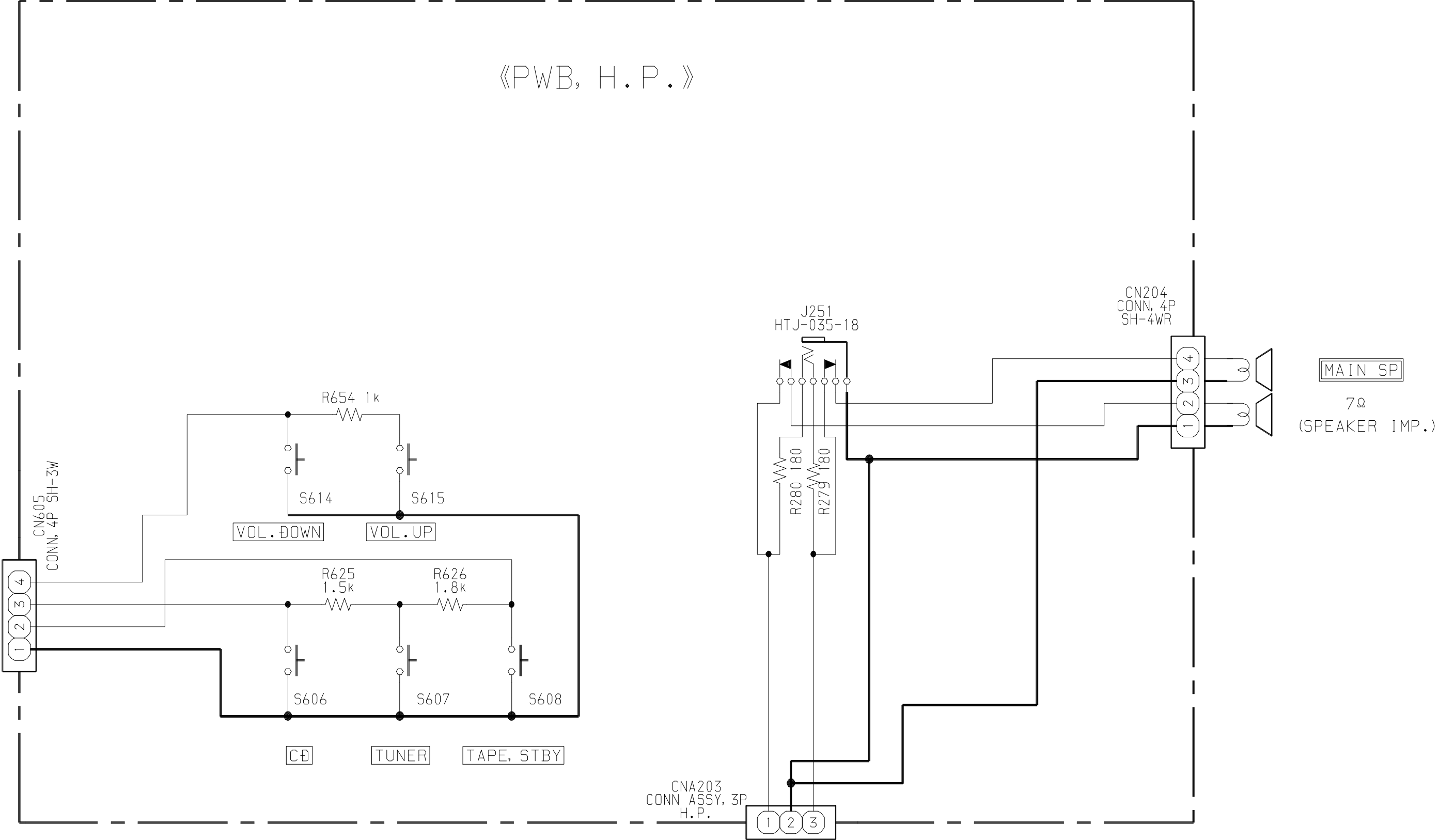
SCHEMATIC DIAGRAM - 3 (FRONT)



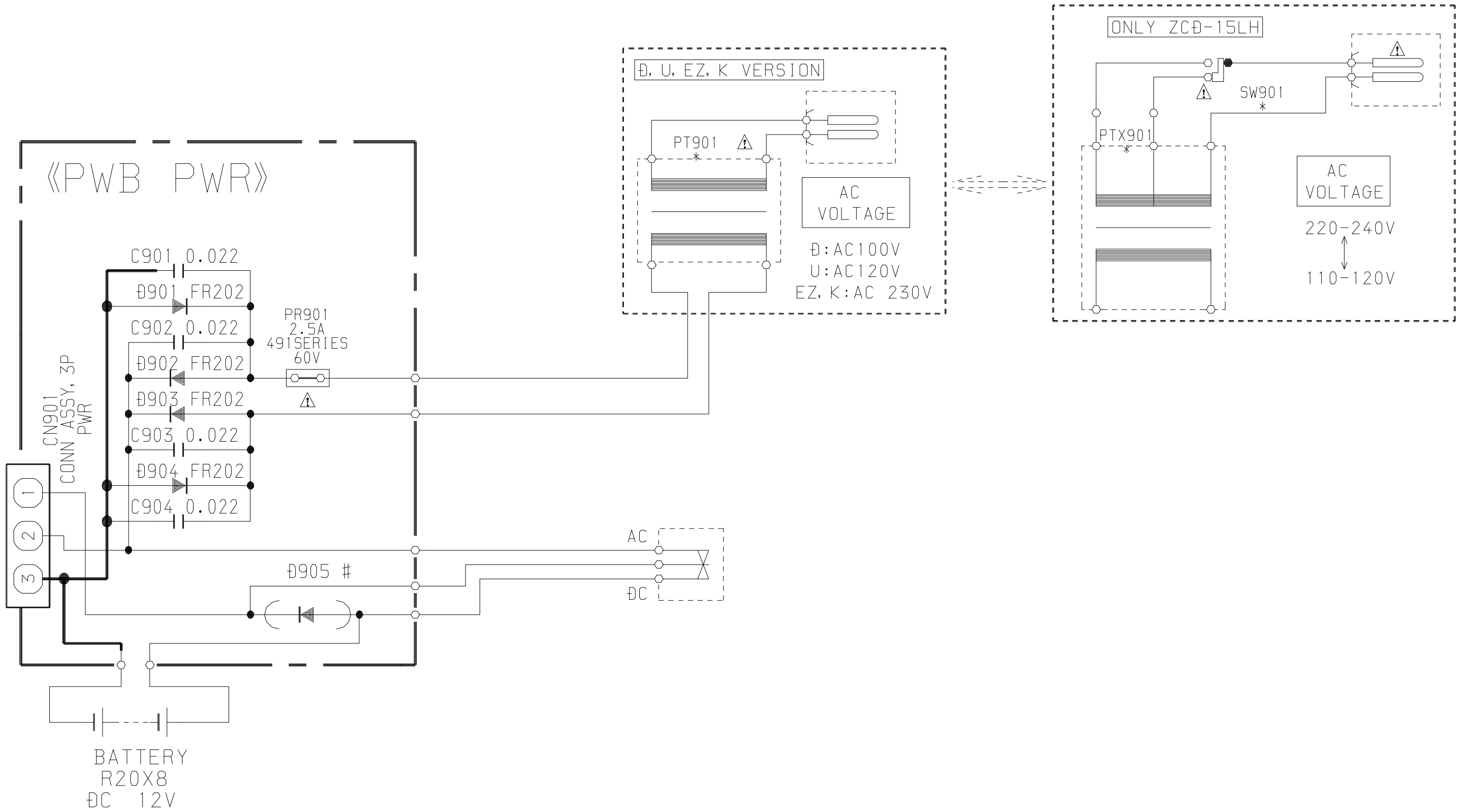
SCHEMATIC DIAGRAM - 4 (TUNER)



《PWB, H.P.》



SCHEMATIC DIAGRAM - 6 (POWER)



アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
AIWA CO.,LTD. 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110, JAPAN TEL:03 (3827) 3111