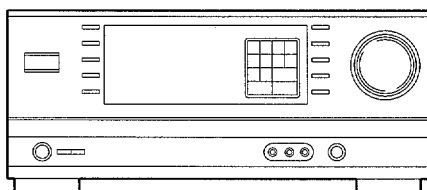


# aiwa



## AV-X270



STEREO RECEIVER

• TYPE: HRJ

### REVISION PUBLISHING

This Service Manual is the "Revision Publishing" and replaces "Simple Manual" (S/M Code No. 09-977-219-50I).

S/M Code No. 09-979-219-60I

MANUAL  
SERVICE

## SPECIFICATIONS

### FM tuner section

|                                 |                      |
|---------------------------------|----------------------|
| <b>Tuning range</b>             | 87.5 MHz to 108 MHz  |
| <b>Usable sensitivity (IHF)</b> | 13.2 dBf             |
| <b>Antenna terminals</b>        | 75 ohms (unbalanced) |

### AM tuner section

|                           |                                                                        |
|---------------------------|------------------------------------------------------------------------|
| <b>Tuning range</b>       | 531 kHz to 1602 kHz (9 kHz step),<br>530 kHz to 1710 kHz (10 kHz step) |
| <b>Usable sensitivity</b> | 350 $\mu$ V/m                                                          |
| <b>Antenna</b>            | Loop antenna                                                           |

### Amplifier section

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Power output</b> | <b>[Stereo Mode]</b><br><b>Front</b><br>Rated: 170 W + 170 W<br>(8 ohms, T.H.D. 1 %, 1 kHz)<br>Reference: 195 W + 195 W<br>(8 ohms, T.H.D. 10 %, 1 kHz)<br><b>[Dolby Pro Logic Mode]</b><br><b>Front</b><br>Rated: 130 W + 130 W<br>(8 ohms, T.H.D. 1 %, 1 kHz)<br>Reference: 150 W + 150 W<br>(8 ohms, T.H.D. 10 %, 1 kHz)<br><b>Rear (Surround)</b><br>Rated: 65 W + 65 W<br>(8 ohms, T.H.D. 1 %, 1 kHz)<br>Reference: 75 W + 75 W<br>(8 ohms, T.H.D. 10 %, 1 kHz)<br><b>Center</b><br>Rated: 130 W<br>(8 ohms, T.H.D. 1 %, 1 kHz)<br>Reference: 150 W<br>(8 ohms, T.H.D. 10 %, 1 kHz)<br>0.08 % (105 W, 1 kHz, 8 ohms, Front) |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Total harmonic distortion**  
**Inputs**

**AUDIO IN**  
PHONO: 2.8 mV (50 kohms)  
CD: 400 mV (50 kohms)  
TAPE MONITOR: 400 mV (25 kohms)  
VIDEO 1, VIDEO 2/LD/MD,  
VIDEO 3, AUX/TV: 400 mV (50 kohms)

**Outputs**

VIDEO IN: 1 Vp-p (75 ohms)  
MIC 1, MIC 2: 1 mV (20 kohms)  
AUDIO OUT (REC OUT): 250 mV (2 kohms)  
VIDEO OUT (MONITOR): 1 Vp-p (75 ohms)  
SUPER WOOFER: 3.1 V  
FRONT SPEAKERS IMP: 8  $\Omega$ /4  $\Omega$   
selectable (front speakers A and B):  
With the SPEAKER IMPEDANCE  
SELECTOR set to 4  $\Omega$ , accepts  
speakers of 4 ohms.  
With the SPEAKER IMPEDANCE  
SELECTOR set to 8  $\Omega$ , accepts  
speakers of 8 ohms or more.  
SURROUND SPEAKERS IMP: 8  $\Omega$   
(surround speakers): accepts  
speakers of 8 ohms or more

CENTER SPEAKER IMP: 8  $\Omega$ /4  $\Omega$   
selectable  
With the SPEAKER IMPEDANCE  
SELECTOR set to 4  $\Omega$ , accepts  
speaker of 4 ohms.  
With the SPEAKER IMPEDANCE  
SELECTOR set to 8  $\Omega$ , accepts  
speaker of 8 ohms or more.  
PHONES (stereo jack): accepts  
headphones of 32 ohms or more  
-20 dB

**Muting**

### General

|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| <b>Power requirements</b>     | 120 V/220-230/240 V AC, switchable,<br>50/60 Hz |
| <b>Power consumption</b>      | 290 W                                           |
| <b>Dimensions (W x H x D)</b> | 360 x 153.5 x 341 mm                            |
| <b>Weight</b>                 | 10.7 kg                                         |

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- Manufactured under license from Dolby Laboratories Licensing Corporation.  
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# ELECTRICAL MAIN PARTS LIST

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

| REF. NO    | PART NO.       | KANRI NO. | DESCRIPTION                  | REF. NO  | PART NO.       | KANRI NO. | DESCRIPTION            |
|------------|----------------|-----------|------------------------------|----------|----------------|-----------|------------------------|
| IC         |                |           |                              |          |                |           |                        |
|            | 87-A20-514-010 |           | C-IC, M62460FP               |          | 87-002-743-080 |           | ZENER, MTZJ 33B        |
|            | 87-AR4-600-010 |           | C-IC, LC866440W-5E85         |          | 87-017-932-080 |           | ZENER, MTZJ6.2B        |
|            | 87-070-083-010 |           | IC, GP1U281X                 |          | 87-017-931-080 |           | ZENER, MTZJ5.6B        |
|            | 87-017-915-080 |           | IC, BU4094BCF                | MAIN C.B |                |           |                        |
|            | 87-A20-107-010 |           | IC, BA3836                   |          |                |           |                        |
|            | 87-A20-068-040 |           | C-IC, M65847FP               | C102     | 87-012-368-080 |           | C-CAP, S 0.1-50 F      |
|            | 87-017-022-080 |           | IC, NJM2068M-D(T1)           | C103     | 87-012-368-080 |           | C-CAP, S 0.1-50 F      |
|            | 87-001-222-080 |           | IC, NJU4051BM                | C104     | 87-012-368-080 |           | C-CAP, S 0.1-50 F      |
|            | 87-002-779-010 |           | IC, LA7956                   | C105     | 87-012-368-080 |           | C-CAP, S 0.1-50 F      |
|            | 87-017-917-080 |           | IC, BU4066BCF                | C106     | 87-012-368-080 |           | C-CAP, S 0.1-50 F      |
|            | 87-017-888-080 |           | IC, NJM4558MD                |          |                |           |                        |
|            | 87-A20-056-010 |           | IC, BA3880S                  | C107     | 87-012-368-080 |           | C-CAP, S 0.1-50 F      |
|            | 87-017-726-080 |           | IC, BU4052 BCF               | C108     | 87-A10-416-090 |           | CAP, E 6800-80 SMG VB  |
|            | 87-A20-069-040 |           | C-IC, BA3842F                | C109     | 87-A10-416-090 |           | CAP, E 6800-80 SMG VB  |
|            | 87-070-127-110 |           | IC, LC72131 D                | C110     | 87-A10-056-090 |           | CAP, E 4700-35         |
|            | 87-017-714-110 |           | IC, LA1836L                  | C111     | 87-A10-056-090 |           | CAP, E 4700-35         |
| TRANSISTOR |                |           |                              |          |                |           |                        |
|            | 89-110-372-080 |           | TR, 2SA1037KR (140MHZ 200MW) | C113     | 87-010-235-080 |           | CAP, E 470-16 SME      |
|            | 89-213-702-010 |           | TR, 2SB1370E (1.8W)          | C114     | 87-012-368-080 |           | C-CAP, S 0.1-50 F      |
|            | 89-324-122-080 |           | TR, 2SC2412KR                | C115     | 87-012-368-080 |           | C-CAP, S 0.1-50 F      |
|            | 87-A30-066-080 |           | TR, 2SA1175FE                | C116     | 87-012-368-080 |           | C-CAP, S 0.1-50 F      |
|            | 89-332-665-080 |           | TR, 2SC3266GR (0.75W)        | C117     | 87-012-368-080 |           | C-CAP, S 0.1-50 F      |
|            | 87-A30-076-080 |           | C-TR, 2SC3052F               |          |                |           |                        |
|            | 87-026-263-080 |           | C-TR, RN1410                 | C123     | 87-010-260-080 |           | CAP, ELECT 47-25V      |
|            | 87-026-610-080 |           | TR, KTC3198GR                | C124     | 87-010-403-080 |           | CAP, ELECT 3.3-50V     |
|            | 87-026-238-080 |           | TR, DTC144WK                 | C201     | 87-010-405-080 |           | CAP, ELECT 10-50       |
|            | 87-026-230-080 |           | CHIP-TR, DTA114YK            | C202     | 87-010-405-080 |           | CAP, ELECT 10-50       |
|            | 87-A30-086-070 |           | C-TR, CSD1306E               | C205     | 87-015-629-080 |           | CHIP CAPACITOR, 0.0022 |
|            | 87-026-236-080 |           | TR, DTC124EK                 |          |                |           |                        |
|            | 87-026-609-080 |           | TR, KTA1266GR                | C206     | 87-010-182-080 |           | C-CAP, S 2200P-50 B    |
|            | 87-A30-106-070 |           | C-TR, CMBT5551               | C207     | 87-010-406-080 |           | CAP, ELECT 22-50       |
|            | 87-A30-111-080 |           | TR, C2N5401                  | C208     | 87-010-406-080 |           | CAP, ELECT 22-50       |
|            | 87-A30-097-010 |           | TR, FN 1016                  | C209     | 87-010-406-080 |           | CAP, ELECT 22-50       |
|            | 87-A30-098-010 |           | TR, FP 1016                  | C210     | 87-010-406-080 |           | CAP, ELECT 22-50       |
|            | 87-A30-089-010 |           | FET, 2SK2723                 |          |                |           |                        |
|            | 87-A30-072-080 |           | C-TR, RT1P 144C              | C211     | 87-010-179-080 |           | CAP, CHIP S B1200P     |
|            | 87-A30-073-080 |           | C-TR, RT1N 141C              | C212     | 87-010-179-080 |           | CAP, CHIP S B1200P     |
|            | 87-026-580-080 |           | C-TR, DTA123JK               | C213     | 87-010-260-080 |           | CAP, ELECT 47-25V      |
|            | 87-A30-132-070 |           | TR, 2SC2235Y                 | C214     | 87-010-260-080 |           | CAP, ELECT 47-25V      |
|            | 87-A30-075-080 |           | C-TR, 2SA1235F               | C215     | 87-012-358-080 |           | C-CAP, S 0.47-10 F Z   |
|            | 87-A30-047-080 |           | TR, CSD655E                  |          |                |           |                        |
|            | 89-109-521-080 |           | TR, 2SA952K (0.6W)           | C217     | 87-010-247-080 |           | CAP, ELECT 100-50V     |
|            | 87-A30-087-080 |           | C-FET, 2SK2158               | C218     | 87-012-368-080 |           | C-CAP, S 0.1-50 F      |
|            | 89-421-141-280 |           | C-TR, 2SD2114K, UV           | C220     | 87-010-247-080 |           | CAP, ELECT 100-50V     |
|            | 87-026-232-080 |           | TR, DTA144WK                 | C223     | 87-015-835-080 |           | C-CAP, 0.047 D         |
|            | 89-327-143-080 |           | TR, 2SC2714 (O) (0.1W)       | C225     | 87-A10-516-080 |           | C-CAP, S 100P-200 J CH |
|            | 87-026-214-080 |           | TR, DTA114YS (0.3W)          |          |                |           |                        |
|            | 89-505-434-540 |           | C-FET, 2SK543 (4/5)          | C226     | 87-A10-516-080 |           | C-CAP, S 100P-200 J CH |
| DIODE      |                |           |                              | C229     | 87-016-462-080 |           | C-CAP, S 1-16 F        |
|            | 87-A40-186-080 |           | ZENER, UZ5.1BSC              | C230     | 87-016-462-080 |           | C-CAP, S 1-16 F        |
|            | 87-A40-246-080 |           | DIODE, 1N4148 T-72           | C231     | 87-016-462-080 |           | C-CAP, S 1-16 F        |
|            | 87-017-437-080 |           | DIODE, 1N4148M               | C232     | 87-016-462-080 |           | C-CAP, S 1-16 F        |
|            | 87-A40-115-060 |           | DIODE, RS603M                |          |                |           |                        |
|            | 87-027-686-080 |           | ZENER, HZ12A1                | C239     | 87-010-305-080 |           | C-CAP 470P-50CH        |
|            | 87-A40-224-010 |           | DIODE, GBU8DL                | C240     | 87-010-305-080 |           | C-CAP 470P-50CH        |
|            | 87-A40-202-080 |           | ZENER, UZ5.1BSB              | C241     | 87-010-178-080 |           | CHIP CAP 1000P         |
|            | 87-070-274-080 |           | DIODE, 1N4003 SEM            | C242     | 87-018-131-080 |           | CAP, CER 1000P-50V     |
|            | 87-A40-270-080 |           | C-DIODE, MC2838              | C301     | 87-010-405-080 |           | CAP, ELECT 10-50V      |
|            | 87-A40-269-080 |           | C-DIODE, MC2836              |          |                |           |                        |
|            | 87-017-436-080 |           | ZENER, UZ4.7BSA              | C302     | 87-010-405-080 |           | CAP, ELECT 10-50V      |
|            | 87-A40-206-080 |           | ZENER, UZ10BSC               | C305     | 87-010-182-080 |           | C-CAP, S 2200P-50 B    |
|            | 87-A40-199-080 |           | ZENER, UZL6H2                | C306     | 87-010-182-080 |           | C-CAP, S 2200P-50 B    |
|            | 87-A40-209-080 |           | ZENER, UZ27BSD               | C307     | 87-010-406-080 |           | CAP, ELECT 22-50       |
|            | 87-A40-274-010 |           | DIODE, FMB-G16L              | C308     | 87-010-406-080 |           | CAP, ELECT 22-50       |
|            |                |           |                              |          |                |           |                        |
|            |                |           |                              | C309     | 87-010-406-080 |           | CAP, ELECT 22-50       |
|            |                |           |                              | C310     | 87-010-406-080 |           | CAP, ELECT 22-50       |
|            |                |           |                              | C311     | 87-010-179-080 |           | CAP, CHIP S B1200P     |
|            |                |           |                              | C312     | 87-010-179-080 |           | CAP, CHIP S B1200P     |
|            |                |           |                              | C313     | 87-010-260-080 |           | CAP, ELECT 47-25V      |
|            |                |           |                              |          |                |           |                        |
|            |                |           |                              | C314     | 87-010-260-080 |           | CAP, ELECT 47-25V      |
|            |                |           |                              | C315     | 87-012-358-080 |           | C-CAP, S 0.47-10 F Z   |
|            |                |           |                              | C316     | 87-010-408-080 |           | CAP, E 47-50SME        |
|            |                |           |                              | C317     | 87-010-247-080 |           | CAP, ELECT 100-50V     |
|            |                |           |                              | C318     | 87-012-368-080 |           | C-CAP, S 0.1-50 F      |
|            |                |           |                              |          |                |           |                        |
|            |                |           |                              | C319     | 87-012-368-080 |           | C-CAP, S 0.1-50 F      |
|            |                |           |                              | C320     | 87-010-247-080 |           | CAP, ELECT 100-50V     |
|            |                |           |                              | C323     | 87-010-194-080 |           | CAP, CHIP 0.047        |
|            |                |           |                              | C325     | 87-A10-516-080 |           | C-CAP, S 100P-200 J CH |

| REF. NO | PART NO.       | KANRI NO. | DESCRIPTION               | REF. NO | PART NO.       | KANRI NO. | DESCRIPTION            |
|---------|----------------|-----------|---------------------------|---------|----------------|-----------|------------------------|
| C326    | 87-A10-516-080 |           | C-CAP,S 100P-200 J CH     | C551    | 87-010-406-080 |           | CAP, ELECT 22-50       |
| C329    | 87-010-805-080 |           | C-CAP,S 1-16 ZF           | C552    | 87-010-406-080 |           | CAP, ELECT 22-50       |
| C330    | 87-010-805-080 |           | C-CAP,S 1-16 ZF           | C553    | 87-010-406-080 |           | CAP, ELECT 22-50       |
| C331    | 87-010-805-080 |           | C-CAP,S 1-16 ZF           | C554    | 87-010-406-080 |           | CAP, ELECT 22-50       |
| C332    | 87-010-805-080 |           | C-CAP,S 1-16 ZF           | C555    | 87-010-406-080 |           | CAP, ELECT 22-50       |
| C339    | 87-012-140-080 |           | CAP 470P                  | C556    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25  |
| C340    | 87-012-140-080 |           | CAP 470P                  | C557    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25  |
| C341    | 87-010-178-080 |           | CHIP CAP 1000P            | C558    | 87-010-384-080 |           | CAP, ELECT 100-25V     |
| C342    | 87-010-178-080 |           | CHIP CAP 1000P            | C559    | 87-010-371-080 |           | CAP, ELECT 470-6.3V    |
| C345    | 87-010-408-080 |           | CAP,E 47-50SME            | C560    | 87-010-371-080 |           | CAP, ELECT 470-6.3V    |
| C402    | 87-010-405-080 |           | CAP, ELECT 10-50V         | C561    | 87-010-371-080 |           | CAP, ELECT 470-6.3V    |
| C403    | 87-010-405-080 |           | CAP, ELECT 10-50V         | C604    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25  |
| C404    | 87-010-402-080 |           | CAP, ELECT 2.2-50V        | C605    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25  |
| C405    | 87-010-402-080 |           | CAP, ELECT 2.2-50V        | C621    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25  |
| C406    | 87-010-263-080 |           | CAP, ELECT 100-10V        | C631    | 87-010-322-080 |           | C-CAP,S 100P-50 CH     |
| C407    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25     | C632    | 87-018-209-080 |           | CAP, CER 0.1-50V       |
| C408    | 87-010-382-080 |           | CAP, ELECT 22-25V         | C641    | 87-010-405-080 |           | CAP, ELECT 10-50V      |
| C409    | 87-010-194-080 |           | CAP, CHIP 0.047           | C642    | 87-010-405-080 |           | CAP, ELECT 10-50V      |
| C410    | 87-016-492-080 |           | C-CAP,S 0.33-16 FZ        | C643    | 87-012-140-080 |           | C-CAP,S 470P-50 CH     |
| C411    | 87-010-545-080 |           | CAP, ELECT 0.22-50V       | C644    | 87-012-140-080 |           | C-CAP,S 470P-50 CH     |
| C412    | 87-010-194-080 |           | CAP, CHIP 0.047           | C645    | 87-010-197-080 |           | CAP, CHIP 0.01 DM      |
| C413    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25     | C646    | 87-010-197-080 |           | CAP, CHIP 0.01 DM      |
| C420    | 87-010-260-080 |           | CAP, ELECT 47-25V         | C647    | 87-010-195-080 |           | C-CAP,S 0.068-25 F     |
| C421    | 87-010-263-080 |           | CAP, ELECT 100-10V        | C648    | 87-010-195-080 |           | C-CAP,S 0.068-25 F     |
| C422    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25     | C649    | 87-010-260-080 |           | CAP, ELECT 47-25V      |
| C423    | 87-A10-060-080 |           | C-CAP,S 0.18-16 K B       | C661    | 87-012-140-080 |           | CAP 470P               |
| C424    | 87-A10-060-080 |           | C-CAP,S 0.18-16 K B       | C662    | 87-018-127-080 |           | CAP, CER 470P-50V      |
| C425    | 87-012-156-080 |           | C-CAP,S 220P-50 CH        | C663    | 87-010-188-080 |           | CAP,CHIP 6800P         |
| C426    | 87-012-156-080 |           | C-CAP,S 220P-50 CH        | C664    | 87-010-188-080 |           | CAP,CHIP 6800P         |
| C427    | 87-012-145-080 |           | CAP, CHIP S 270P CH       | C665    | 87-010-101-080 |           | CAP, ELECT 220-16      |
| C428    | 87-012-145-080 |           | CAP, CHIP S 270P CH       | C666    | 87-010-404-080 |           | CAP, ELECT 4.7-50V     |
| C429    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25     | C667    | 87-010-404-080 |           | CAP, ELECT 4.7-50V     |
| C430    | 87-010-177-080 |           | CHIP CAPACITOR 820P-50 SL | C668    | 87-010-404-080 |           | CAP, ELECT 4.7-50V     |
| C431    | 87-010-177-080 |           | C-CAP,S 820P-50 SL        | C669    | 87-010-404-080 |           | CAP, ELECT 4.7-50V     |
| C432    | 87-010-183-080 |           | C-CAP,S 2700P-50 B        | C670    | 87-010-404-080 |           | CAP, ELECT 4.7-50V     |
| C434    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25     | C671    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25  |
| C435    | 87-010-183-080 |           | C-CAP,S 2700P-50 B        | C672    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25  |
| C436    | 87-010-314-080 |           | C-CAP,S 22P-50V           | C701    | 87-010-404-080 |           | CAP, ELECT 4.7-50V     |
| C437    | 87-012-154-080 |           | C-CAP,S 150P-50 CH        | C702    | 87-010-197-080 |           | CAP, CHIP 0.01 DM      |
| C451    | 87-010-186-080 |           | CAP,CHIP 4700P            | C703    | 87-010-197-080 |           | CAP, CHIP 0.01 DM      |
| C452    | 87-010-321-080 |           | CHIP CAPACITOR,82P(J)     | C704    | 87-018-131-080 |           | CAP, CER 1000P-50V     |
| C453    | 87-010-260-080 |           | CAP, ELECT 47-25V         | C707    | 87-010-546-080 |           | CAP, ELECT 0.33-50V    |
| C454    | 87-018-209-080 |           | CAP, CER 0.1-50V          | C708    | 87-010-546-080 |           | CAP, ELECT 0.33-50V    |
| C455    | 87-010-177-080 |           | C-CAP,S 820P-50 SL        | C711    | 87-010-263-080 |           | CAP, ELECT 100-10V     |
| C456    | 87-010-401-080 |           | CAP, ELECT 1-50V          | C712    | 87-010-112-080 |           | CAP, ELECT 100-16V     |
| C457    | 87-010-260-080 |           | CAP, ELECT 47-25V         | C722    | 87-010-152-080 |           | C-CAP,S 8P-50 CH       |
| C458    | 87-018-209-080 |           | CAP, CER 0.1-50V          | C723    | 87-010-178-080 |           | CHIP CAP 1000P         |
| C459    | 87-010-405-080 |           | CAP, ELECT 10-50V         | C725    | 87-010-178-080 |           | CHIP CAP 1000P         |
| C460    | 87-010-545-080 |           | CAP, ELECT 0.22-50V       | C727    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25  |
| C463    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25     | C728    | 87-010-248-080 |           | CAP, ELECT 220-10V     |
| C465    | 87-018-133-080 |           | CAPACITOR,CER 4700P-16V   | C729    | 87-018-134-080 |           | CAPACITOR,TC-U 0.01-16 |
| C470    | 87-010-183-080 |           | C-CAP,S 2700P-50 B        | C731    | 87-012-153-080 |           | C-CAP,S 120P-50 CH     |
| C501    | 87-010-404-080 |           | CAP, ELECT 4.7-50V        | C732    | 87-012-155-080 |           | C-CAP 180P-50CH        |
| C502    | 87-010-404-080 |           | CAP, ELECT 4.7-50V        | C733    | 87-012-155-080 |           | C-CAP 180P-50CH        |
| C503    | 87-012-157-080 |           | C-CAP,S 330P-50 CH        | C771    | 87-010-405-080 |           | CAP, ELECT 10-50V      |
| C504    | 87-012-157-080 |           | C-CAP,S 330P-50 CH        | C772    | 87-010-194-080 |           | CAP, CHIP 0.047        |
| C511    | 87-010-404-080 |           | CAP, ELECT 4.7-50V        | C774    | 87-010-263-080 |           | CAP, ELECT 100-10V     |
| C512    | 87-010-404-080 |           | CAP, ELECT 4.7-50V        | C775    | 87-010-405-080 |           | CAP, ELECT 10-50V      |
| C513    | 87-010-260-080 |           | CAP, ELECT 47-25V         | C776    | 87-010-197-080 |           | CAP, CHIP 0.01 DM      |
| C514    | 87-010-260-080 |           | CAP, ELECT 47-25V         | C777    | 87-010-400-080 |           | CAP, ELECT 0.47-50V    |
| C515    | 87-010-370-080 |           | CAP,E 330-6.3 SME         | C778    | 87-010-401-080 |           | CAP, ELECT 1-50V       |
| C516    | 87-010-370-080 |           | CAP,E 330-6.3 SME         | C779    | 87-010-401-080 |           | CAP, ELECT 1-50V       |
| C525    | 87-010-184-080 |           | CHIP CAPACITOR 3300P(K)   | C780    | 87-010-197-080 |           | CAP, CHIP 0.01 DM      |
| C526    | 87-010-184-080 |           | CHIP CAPACITOR 3300P(K)   | C789    | 87-010-369-080 |           | C-CAP,S 0.033-25 K B   |
| C531    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25     | C790    | 87-010-369-080 |           | C-CAP,S 0.033-25 K B   |
| C532    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25     | C791    | 87-010-401-080 |           | CAP, ELECT 1-50V       |
| C533    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25     | C792    | 87-010-180-080 |           | C-CER 1500P            |
| C534    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25     | C793    | 87-010-189-080 |           | C-CAP,S 8200P-50 B     |
| C541    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25     | C794    | 87-010-260-080 |           | CAP, ELECT 47-25V      |
| C549    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25     | C795    | 87-010-194-080 |           | CAP, CHIP 0.047        |

| REF. NO | PART NO.       | KANRI NO. | DESCRIPTION                  |
|---------|----------------|-----------|------------------------------|
| C796    | 87-010-403-080 |           | CAP, ELECT 3.3-50V           |
| C797    | 87-010-197-080 |           | CAP, CHIP 0.01 DM            |
| C799    | 87-010-405-080 |           | CAP, ELECT 10-50V            |
| C817    | 87-010-196-080 |           | CHIP CAPACITOR, 0.1-25       |
| C820    | 87-010-260-080 |           | CAP, ELECT 47-25V            |
| C821    | 87-010-197-080 |           | CAP, CHIP 0.01 DM            |
| C823    | 87-010-197-080 |           | CAP, CHIP 0.01 DM            |
| C825    | 87-010-196-080 |           | CHIP CAPACITOR, 0.1-25       |
| C833    | 87-010-196-080 |           | CHIP CAPACITOR, 0.1-25       |
| C835    | 87-016-461-080 |           | C-CAP, S 0.47-16F            |
| C836    | 87-010-401-080 |           | CAP, ELECT 1-50V             |
| C837    | 87-010-197-080 |           | CAP, CHIP 0.01 DM            |
| C849    | 87-010-197-080 |           | CAP, CHIP 0.01 DM            |
| C850    | 87-010-196-080 |           | CHIP CAPACITOR, 0.1-25       |
| C901    | 87-010-197-080 |           | CAP, CHIP 0.01 DM            |
| C920    | 87-010-196-080 |           | CHIP CAPACITOR, 0.1-25       |
| C955    | 87-010-197-080 |           | CAP, CHIP 0.01 DM            |
| C960    | 87-016-461-080 |           | CHIP CAPACITOR, 0.47-16 ZF   |
| C988    | 87-010-198-080 |           | CAP, CHIP 0.022              |
| C989    | 87-010-154-080 |           | CAP CHIP 10P                 |
| C996    | 87-010-196-080 |           | CHIP CAPACITOR, 0.1-25       |
| CF801   | 87-008-261-080 |           | FLTR SFE 10.7 MA5-A          |
| CF802   | 87-008-261-080 |           | FLTR SFE 10.7 MA5-A          |
| EMI451  | 87-008-372-080 |           | FILTER, EMI BL OIRNI         |
| EMI501  | 87-008-372-080 |           | FILTER, EMI BL OIRNI         |
| FB101   | 87-608-372-080 |           | FLTR, EMIBL1 PN1             |
| FFB801  | A8-72A-291-030 |           | 72A-2 YFEUNM                 |
| J261    | 87-A60-198-010 |           | JACK, 6.3 BLK ST W/O SW HPJ  |
| J451    | 87-A60-188-010 |           | JACK, 6.3 BLK MONO W/SW MIC  |
| J452    | 87-A60-188-010 |           | JACK, 6.3 BLK MONO W/SW MIC  |
| J521    | 87-099-609-010 |           | JACK, PIN 4P KM EARTH        |
| J522    | 87-099-609-010 |           | JACK, PIN 4P KM EARTH        |
| J525    | 87-099-911-010 |           | JACK, PIN 3P YEL             |
| J527    | 87-099-911-010 |           | JACK, PIN 3P YEL             |
| J530    | 87-A60-197-010 |           | JACK, PIN 3P Y/W/R W/O SW H  |
| J583    | 87-099-911-010 |           | JACK, PIN 3P YEL             |
| J584    | 87-099-911-010 |           | JACK, PIN 3P YEL             |
| J586    | 87-099-911-010 |           | JACK, PIN 3P YEL             |
| J801    | 87-A60-202-010 |           | TERMINAL, ANT 4P MSP-154V-02 |
| L551    | 87-005-444-080 |           | COIL 100UH, K                |
| L741    | 87-A50-015-010 |           | COIL, FM DET(TOK)            |
| L742    | 87-A90-052-010 |           | FLTR, CFMT-450A(TOK)         |
| L770    | 87-005-849-080 |           | COIL, 10UH(CECS)             |
| L832    | 87-005-847-080 |           | COIL, 2.2UH(CECS)            |
| L981    | 85-NF7-664-010 |           | AMPACK 1(SG 1) R             |
| △ PR104 | 87-026-682-080 |           | PROTECTOR, 10A 60V491        |
| △ PR105 | 87-026-682-080 |           | PROTECTOR, 10A 60V491        |
| △ PR106 | 87-026-682-080 |           | PROTECTOR, 10A 60V491        |
| △ PR107 | 87-026-682-080 |           | PROTECTOR, 10A 60V491        |
| △ PR201 | 87-026-682-080 |           | PROTECTOR, 10A 60V491        |
| △ PR202 | 87-026-682-080 |           | PROTECTOR, 10A 60V491        |
| △ PR301 | 87-026-682-080 |           | PROTECTOR, 10A 60V491        |
| △ PR302 | 87-026-682-080 |           | PROTECTOR, 10A 60V491        |
| R229    | 87-022-184-080 |           | RES, METAL 0.33-1W           |
| R230    | 87-022-184-080 |           | RES, METAL 0.33-1W           |
| R231    | 87-022-184-080 |           | RES, METAL 0.33-1W           |
| R232    | 87-022-184-080 |           | RES, METAL 0.33-1W           |
| R295    | 87-A00-126-080 |           | RES M/F 220-1/WJ VIP         |
| R296    | 87-A00-126-080 |           | RES M/F 220-1/WJ VIP         |
| R297    | 87-A00-126-080 |           | RES M/F 220-1/WJ VIP         |
| R298    | 87-A00-126-080 |           | RES M/F 220-1/WJ VIP         |
| R329    | 87-022-184-080 |           | RES, METAL 0.33-1W           |
| R330    | 87-022-184-080 |           | RES, METAL 0.33-1W           |
| R331    | 87-022-184-080 |           | RES, METAL 0.33-1W           |
| R332    | 87-022-184-080 |           | RES, METAL 0.33-1W           |
| SFR722  | 87-024-171-080 |           | SEMI-FIXED RESISTOR, 4.7K    |
| SW261   | 87-A90-174-010 |           | SW, PUSH 2-2-2               |
| SW262   | 87-A90-174-010 |           | SW, PUSH 2-2-2               |
| TC721   | 87-011-253-080 |           | TRIMER, 30P LAR              |
| TH201   | 87-A90-221-080 |           | C-THMS, 100K                 |

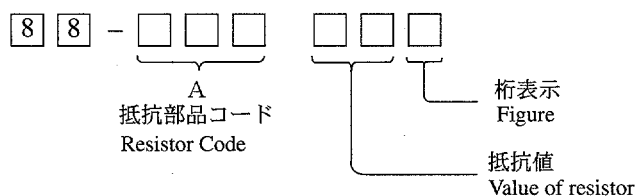
| REF. NO   | PART NO.       | KANRI NO. | DESCRIPTION              |
|-----------|----------------|-----------|--------------------------|
| TH202     | 87-A90-221-080 |           | C-THMS, 100K             |
| TH301     | 87-A90-221-080 |           | C-THMS, 100K             |
| TH302     | 87-A90-221-080 |           | C-THMS, 100K             |
| VR451     | 86-AR4-652-010 |           | VR, RTRY 10KBX1 1 H      |
| VR452     | 86-AR4-651-010 |           | VR, RTRY 10KAX1 1 H      |
| W101      | 87-AR4-676-010 |           | F-CABLE, 8P 2.5 400MM BL |
| W102      | 87-AR4-693-010 |           | F-CABLE, 2P 2.5 230MM    |
| W201      | 87-AR4-686-010 |           | F-CABLE, 8P 2.5 500MM BL |
| W301      | 86-AR4-642-110 |           | F-CABLE, 4P 2.5 300MM    |
| X703      | 84-508-618-010 |           | VIBRATER CSB456 F15      |
| X721      | 87-030-372-010 |           | VIB, XTAL 7.2MHZ         |
| FRONT C.B |                |           |                          |
| C101      | 87-018-209-010 |           | CAP, TC-U 0.1-50         |
| C103      | 87-010-316-080 |           | C-CAP, S 33P-50 CH       |
| C105      | 87-010-196-080 |           | CHIP CAPACITOR, 0.1-25   |
| C106      | 87-010-196-080 |           | CHIP CAPACITOR, 0.1-25   |
| C107      | 87-015-692-040 |           | E/CAP 0.22-50V TAPG      |
| C108      | 87-015-681-040 |           | E/CAP 10-16              |
| C109      | 87-010-178-080 |           | CHIP CAP 1000P           |
| C111      | 87-010-263-040 |           | CAP, E 100-10            |
| C112      | 87-010-562-040 |           | CAP, E 220-10 GAS        |
| C113      | 87-010-546-080 |           | CAP, ELECT 0.33-50       |
| C114      | 87-010-401-040 |           | CAP, E 1-50 SME          |
| C115      | 87-010-196-080 |           | CHIP CAPACITOR, 0.1-25   |
| C116      | 87-010-196-080 |           | CHIP CAPACITOR, 0.1-25   |
| C117      | 87-010-320-080 |           | CHIP CAP 68P             |
| C118      | 87-010-312-080 |           | C-CAP, S 15P-50 CH       |
| C120      | 87-012-368-080 |           | C-CAP, S 0.1-50 Z F      |
| C121      | 87-010-178-080 |           | CHIP CAP 1000P           |
| C161      | 87-010-408-040 |           | CAP, E 47-50 SME         |
| C162      | 87-010-405-040 |           | CAP, E 10-50             |
| C163      | 87-010-405-040 |           | CAP, E 10-50             |
| C301      | 87-010-196-080 |           | CHIP CAPACITOR, 0.1-25   |
| C302      | 87-010-196-080 |           | CHIP CAPACITOR, 0.1-25   |
| C605      | 87-A10-224-040 |           | CAP, E 10-10 7L BP       |
| C606      | 87-A10-224-040 |           | CAP, E 10-10 7L BP       |
| C607      | 87-A10-224-040 |           | CAP, E 10-10 7L BP       |
| C608      | 87-A10-224-040 |           | CAP, E 10-10 7L BP       |
| FL101     | 86-AR4-670-010 |           | FL, 9-BT-153GK           |
| LED301    | 87-070-199-080 |           | LED, SLP738F-81-S-T1     |
| LED302    | 87-070-199-080 |           | LED, SLP738F-81-S-T1     |
| LED303    | 87-070-199-080 |           | LED, SLP738F-81-S-T1     |
| LED304    | 87-070-199-080 |           | LED, SLP738F-81-S-T1     |
| LED305    | 87-070-199-080 |           | LED, SLP738F-81-S-T1     |
| LED306    | 87-070-199-080 |           | LED, SLP738F-81-S-T1     |
| LED307    | 87-070-199-080 |           | LED, SLP738F-81-S-T1     |
| LED308    | 87-070-199-080 |           | LED, SLP738F-81-S-T1     |
| LED309    | 87-070-199-080 |           | LED, SLP738F-81-S-T1     |
| LED310    | 87-070-199-080 |           | LED, SLP738F-81-S-T1     |
| LED311    | 87-070-199-080 |           | LED, SLP738F-81-S-T1     |
| LED312    | 87-070-199-080 |           | LED, SLP738F-81-S-T1     |
| LED313    | 87-070-199-080 |           | LED, SLP738F-81-S-T1     |
| LED314    | 87-070-199-080 |           | LED, SLP738F-81-S-T1     |
| LED315    | 87-070-199-080 |           | LED, SLP738F-81-S-T1     |
| LED316    | 87-070-199-080 |           | LED, SLP738F-81-S-T1     |
| LED317    | 87-001-123-080 |           | LED, SLZ981C-02          |
| LED318    | 87-001-123-080 |           | LED, SLZ981C-02          |
| LED319    | 87-001-123-080 |           | LED, SLZ981C-02          |
| LED320    | 87-001-123-080 |           | LED, SLZ981C-02          |
| LED321    | 87-001-123-080 |           | LED, SLZ981C-02          |
| LED322    | 87-001-123-080 |           | LED, SLZ981C-02          |
| LED323    | 87-001-123-080 |           | LED, SLZ981C-02          |
| LED324    | 87-001-123-080 |           | LED, SLZ981C-02          |
| S201      | 87-A90-095-080 |           | SW, TACT EVQ11G04M       |
| S202      | 87-A90-095-080 |           | SW, TACT EVQ11G04M       |
| S203      | 87-A90-095-080 |           | SW, TACT EVQ11G04M       |
| S204      | 87-A90-095-080 |           | SW, TACT EVQ11G04M       |

| REF. NO | PART NO.       | KANRI NO.       | DESCRIPTION    | REF. NO     | PART NO.       | KANRI NO. | DESCRIPTION               |
|---------|----------------|-----------------|----------------|-------------|----------------|-----------|---------------------------|
| S205    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C1          | 87-010-405-040 |           | CAP, E 10-50              |
| S206    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C2          | 87-010-405-040 |           | CAP, E 10-50              |
| S207    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C3          | 87-010-405-040 |           | CAP, E 10-50              |
| S208    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C4          | 87-010-260-040 |           | CAP, E 47-25 SME          |
| S209    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C5          | 87-010-405-040 |           | CAP, E 10-50              |
| S210    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C6          | 87-016-081-080 |           | C-CAP, S 0.1-16 RK        |
| S211    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C7          | 87-010-401-040 |           | CAP, E 1-50 SME           |
| S212    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C8          | 87-010-318-080 |           | C-CAP, S 47P-50 CH        |
| S213    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C9          | 87-010-318-080 |           | C-CAP, S 47P-50 CH        |
| S214    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C10         | 87-012-368-080 |           | C-CAP, S 0.1-50 F         |
| S221    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C11         | 87-010-263-040 |           | CAP, E 100-10             |
| S222    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C12         | 87-016-456-040 |           | CAP, E 22-16 SME          |
| S223    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C22         | 87-016-081-080 |           | C-CAP, S 0.1-16 RK        |
| S224    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C23         | 87-016-081-080 |           | C-CAP, S 0.1-16 RK        |
| S225    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C24         | 87-016-081-080 |           | C-CAP, S 0.1-16 RK        |
| S226    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C25         | 87-012-140-080 |           | CAP 470P                  |
| S227    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C27         | 87-010-401-040 |           | CAP, E 1-50 SME           |
| S228    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C28         | 87-010-177-080 |           | C-CAP, S 820P-50 SL       |
| S229    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C31         | 87-A10-229-080 |           | C-CAP, S 0.68-10 K W5     |
| S230    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C32         | 87-012-393-080 |           | C-CAP, S 0.22-16 R K      |
| S231    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C33         | 87-012-393-080 |           | C-CAP, S 0.22-16 R K      |
| S232    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C34         | 87-010-404-040 |           | CAP, E 4.7-50 SME         |
| S233    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C35         | 87-010-404-040 |           | CAP, E 4.7-50 SME         |
| S234    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C36         | 87-012-393-080 |           | C-CAP, S 0.22-16 R K      |
| S241    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C37         | 87-012-393-080 |           | C-CAP, S 0.22-16 R K      |
| S242    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C38         | 87-016-081-080 |           | C-CAP, S 0.1-16 RK        |
| S243    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C41         | 87-016-081-080 |           | C-CAP, S 0.1-16 RK        |
| S244    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C42         | 87-016-081-080 |           | C-CAP, S 0.1-16 RK        |
| S245    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C45         | 87-016-081-080 |           | C-CAP, S 0.1-16 RK        |
| S246    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C47         | 87-010-176-080 |           | C-CAP, S 680P-50 SL       |
| S247    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C49         | 87-010-176-080 |           | C-CAP, S 680P-50 SL       |
| S248    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C52         | 87-016-456-040 |           | CAP, E 22-16 LLA          |
| S249    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C53         | 87-016-251-040 |           | CAP, E 220-16 SMG         |
| S250    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C54         | 87-016-471-080 |           | CAP, ELECT 10-50V K       |
| S251    | 87-A90-095-080 | SW, TACT        | EVQ11G04M      | C56         | 87-018-115-080 |           | CAP, TC-U 47P-50 J        |
| VR601   | 86-AR4-653-010 | VR, RTRY        | 100K3BM 1H     | C57         | 87-010-405-080 |           | CAP, ELECT 10-50V         |
| X101    | 87-A70-070-080 | VIB, CER        | 5.76MHZ CRHF   | C58         | 87-010-405-080 |           | CAP, ELECT 10-50V         |
| MVR C.B |                |                 |                | C61         | 87-010-384-040 |           | CAP, E 100-25 SME         |
| C601    | 87-010-384-040 | CAP, E          | 100-25 SME     | C62         | 87-012-368-080 |           | C-CAP, S 0.1-50 F         |
| C602    | 87-010-263-040 | CAP, E          | 100-10         | C63         | 87-010-315-080 |           | C-CAP, S 27P-50 CH        |
| C603    | 87-015-692-040 | E/CAP           | 0.22-50V TAPG  | C64         | 87-010-315-080 |           | C-CAP, S 27P-50 CH        |
| C604    | 87-015-692-040 | E/CAP           | 0.22-50V TAPG  | C65         | 87-010-315-080 |           | C-CAP, S 27P-50 CH        |
| C609    | 87-012-154-080 | C-CAP, S        | 150P-50 CH     | C112        | 87-010-382-080 |           | CAP, ELECT 22-25V         |
| C610    | 87-012-153-080 | C-CAP, S        | 120P-50 CH     | C114        | 87-010-384-080 |           | CAP, ELECT 100-25V        |
| C621    | 87-010-196-080 | CHIP CAPACITOR, | 0.1-25         | C115        | 87-012-140-080 |           | CAP 470P                  |
| C701    | 87-010-402-040 | CAP, E          | 2.2-50 SME     | C117        | 87-010-235-080 |           | CAP, E 470-16 SME         |
| C702    | 87-010-402-040 | CAP, E          | 2.2-50 SME     | C118        | 87-010-235-080 |           | CAP, E 470-16 SME         |
| C703    | 87-012-154-080 | C-CAP, S        | 150P-50 CH     | C119        | 87-010-407-080 |           | CAP, ELECT 33-50V         |
| C704    | 87-012-154-080 | C-CAP, S        | 150P-50 CH     | C120        | 87-010-407-080 |           | CAP, ELECT 33-50V         |
| C705    | 87-016-460-080 | C-CAP, S        | 0.22-16 B      | C121        | 87-010-408-080 |           | CAP, ELECT 47-50V         |
| C706    | 87-016-460-080 | C-CAP, S        | 0.22-16 B      | C122        | 87-010-263-080 |           | CAP, ELECT 100-10V        |
| C707    | 87-010-182-080 | C-CAP, S        | 2200P-50 B     | C123        | 87-010-112-080 |           | CAP, ELECT 100-16V        |
| C708    | 87-010-182-080 | C-CAP, S        | 2200P-50 B     | C201        | 87-010-401-040 |           | CAP, E 1-50 SME           |
| C709    | 87-010-597-080 | C-CAP, S        | 0.056-16V, RK  | C202        | 87-010-263-040 |           | CAP, E 100-10             |
| C710    | 87-010-597-080 | C-CAP, S        | 0.056-16V, RK  | C203        | 87-010-380-080 |           | CAP, E 47-16M SME         |
| C711    | 87-016-460-080 | C-CAP, S        | 0.22-16 B      | L1          | 87-005-481-080 |           | COIL, 47UH J FLR50        |
| C712    | 87-016-460-080 | C-CAP, S        | 0.22-16 B      | R27         | 87-025-407-080 |           | RES, 100K-1/8W            |
| C713    | 87-016-462-080 | C-CAP, S        | 1-16 F         | △ R144      | 87-029-060-010 |           | FUSING RESISTOR, 33, 1/4W |
| C714    | 87-010-260-040 | CAP, E          | 47-25 SME      | SW C.B      |                |           |                           |
| C715    | 87-010-405-040 | CAP, E          | 10-50          | △ S11       | 87-036-173-010 |           | SW, SL 2-2-4 SDKG(*)      |
| C716    | 87-010-260-040 | CAP, E          | 47-25 SME      | SPEAKER C.B |                |           |                           |
| C717    | 87-016-081-080 | C-CAP, S        | 0.1-16 RK      | C251        | 87-010-196-080 |           | CHIP CAPACITOR, 0.1-25    |
| C718    | 87-010-196-080 | CHIP CAPACITOR, | 0.1-25         | C252        | 87-010-196-080 |           | CHIP CAPACITOR, 0.1-25    |
| MVR601  | 87-AR4-675-010 | VR, MOT         | 50KBX4 1 V 54B | C253        | 87-010-196-080 |           | CHIP CAPACITOR, 0.1-25    |
| PRO C.B |                |                 |                | C254        | 87-010-196-080 |           | CHIP CAPACITOR, 0.1-25    |
|         |                |                 |                | C255        | 87-010-196-080 |           | CHIP CAPACITOR, 0.1-25    |

| REF. NO | PART NO.       | KANRI NO. | DESCRIPTION                   | REF. NO | PART NO.       | KANRI NO. | DESCRIPTION            |
|---------|----------------|-----------|-------------------------------|---------|----------------|-----------|------------------------|
| C256    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25         | △ FC102 | 87-033-147-010 |           | FUSE CLAMP             |
| C257    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25         | △ FC103 | 87-033-147-010 |           | FUSE CLAMP             |
| C258    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25         | △ FC104 | 87-033-147-010 |           | FUSE CLAMP             |
| C351    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25         | △ P1    | 87-A60-317-010 |           | TERMINAL, 1P MSC       |
| C352    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25         | △ P2    | 87-A60-317-010 |           | TERMINAL, 1P MSC       |
| C353    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25         |         |                |           |                        |
| C354    | 87-010-196-080 |           | CHIP CAPACITOR,0.1-25         | AC2 C.B |                |           |                        |
| J201    | 87-A60-244-010 |           | JACK, PIN 1P BLK              | C101    | 87-018-209-080 |           | CAP, TC-U 0.1-50       |
| J202    | 87-A60-199-010 |           | TERMINAL, SP 8P CJ-9034-07 V0 | C102    | 87-018-209-080 |           | CAP, TC-U 0.1-50       |
| J303    | 87-A60-200-110 |           | TERMINAL, SP 6P CJ-9033       | C103    | 87-018-209-080 |           | CAP, TC-U 0.1-50       |
| L201    | 87-003-383-010 |           | COIL, 1UH-S                   | PR11    | 87-026-682-080 |           | PROTECTOR, 10A 60V491  |
| L202    | 87-003-383-010 |           | COIL, 1UH-S                   | PR12    | 87-026-682-080 |           | PROTECTOR, 10A 60V491  |
| L203    | 87-003-383-010 |           | COIL, 1UH-S                   | PR13    | 87-026-682-080 |           | PROTECTOR, 10A 60V491  |
| L204    | 87-003-383-010 |           | COIL, 1UH-S                   | PR14    | 87-026-682-080 |           | PROTECTOR, 10A 60V491  |
| L301    | 87-003-383-010 |           | COIL, 1UH-S                   | PR15    | 87-026-682-080 |           | PROTECTOR, 10A 60V491  |
| L302    | 87-003-383-010 |           | COIL, 1UH-S                   | PR16    | 87-026-682-080 |           | PROTECTOR, 10A 60V491  |
| S101    | 86-SP8-611-010 |           | SW, SL 1-1-2                  | RY101   | 87-A90-454-010 |           | RELAY, 12V DJ12D2-0(M) |
| AC1 C.B |                |           |                               | RY102   | 87-A90-454-010 |           | RELAY, 12V DJ12D2-0(M) |
| △       | 87-050-079-010 |           | AC-CORD ASSY, E               |         |                |           |                        |
| △       | 87-085-185-010 |           | BUSHING, AC CORD (E)          |         |                |           |                        |
| △ PT101 | 87-AR4-661-010 |           | PT, HE EI96-70 7AR-4          |         |                |           |                        |
| △ F106  | 87-035-370-010 |           | FUSE, 6.3A 250V               |         |                |           |                        |
| △ F107  | 87-035-370-010 |           | FUSE, 6.3A 250V               |         |                |           |                        |
| △ FC101 | 87-033-147-010 |           | FUSE CLAMP                    |         |                |           |                        |

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

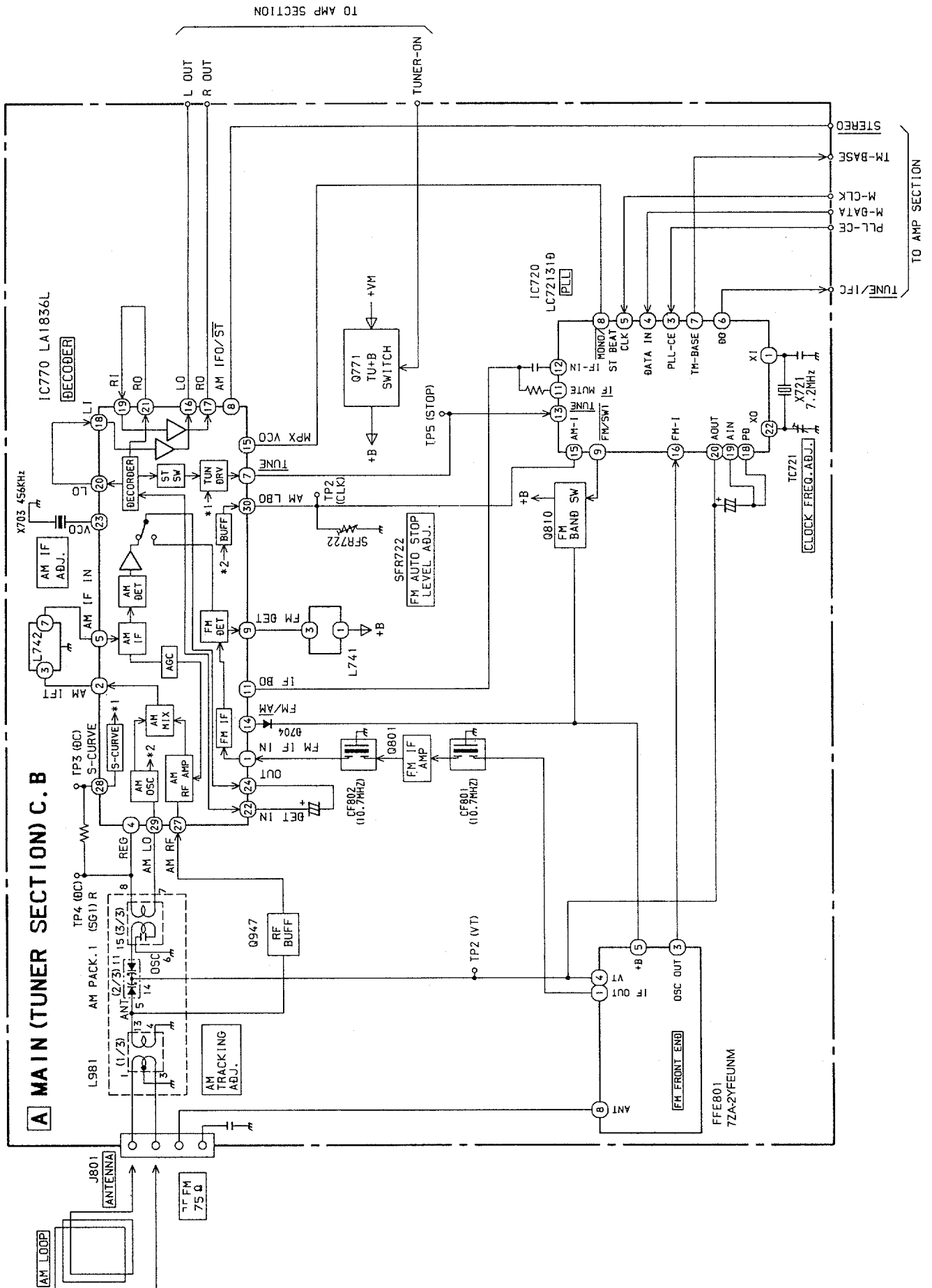
チップ抵抗部品コードの成り立ち  
Chip Resistor Part Coding



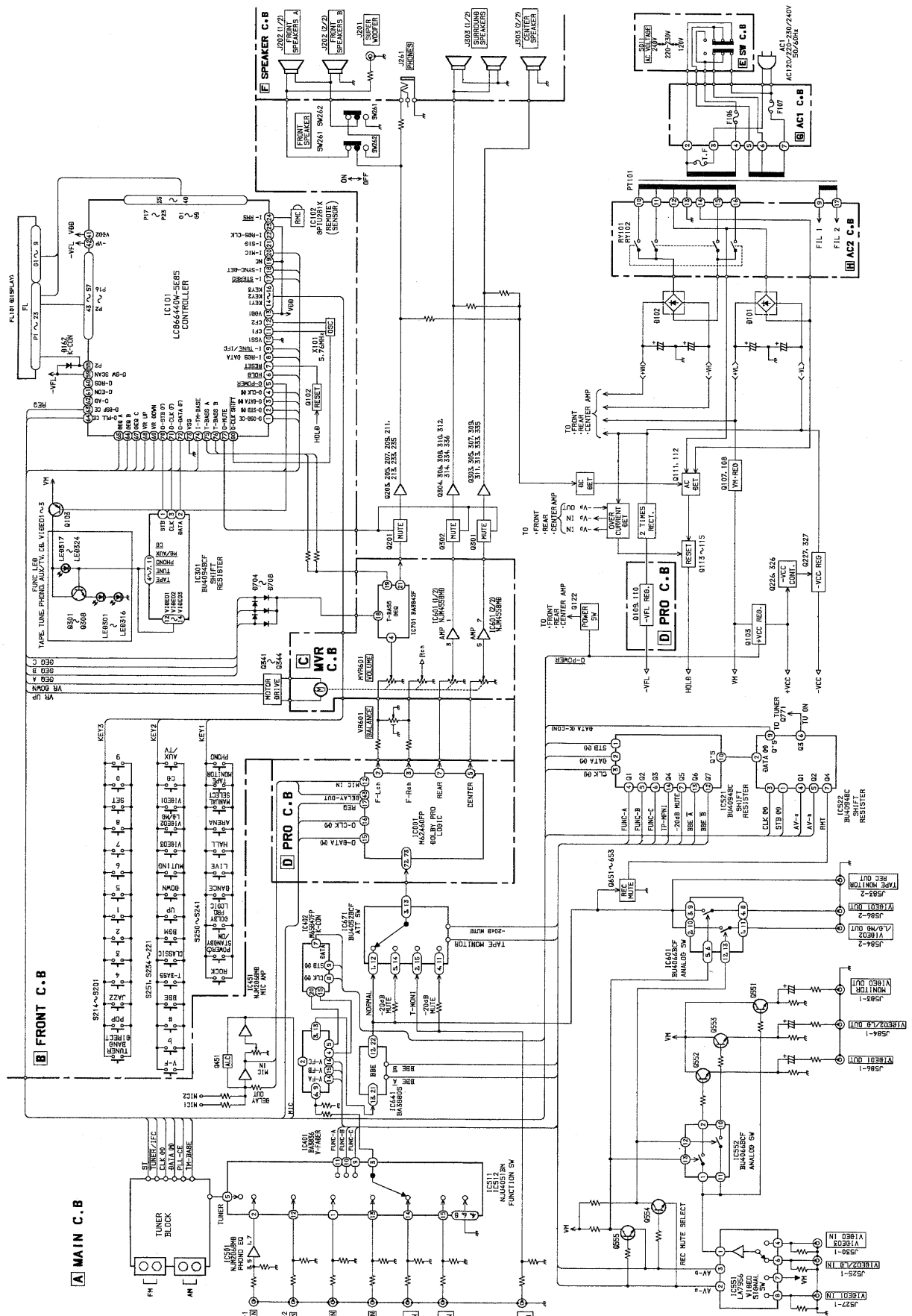
チップ抵抗  
Chip resistor

| 容量<br>Wattage | 種類<br>Type | 許容誤差<br>Tolerance | 記号<br>Symbol | 寸法 / Dimensions (mm)                                                                |     |      |      | 抵抗コード : A<br>Resistor Code : A |
|---------------|------------|-------------------|--------------|-------------------------------------------------------------------------------------|-----|------|------|--------------------------------|
|               |            |                   |              | 外形 / Form                                                                           | L   | W    | t    |                                |
| 1/16W         | 1608       | 5%                | CJ           |  | 1.6 | 0.8  | 0.45 | 108                            |
| 1/10W         | 2125       | 5%                | CJ           |                                                                                     | 2   | 1.25 | 0.45 | 118                            |
| 1/8W          | 3216       | 5%                | CJ           |                                                                                     | 3.2 | 1.6  | 0.55 | 128                            |

# BLOCK DIAGRAM-1 (TUNER SECTION)

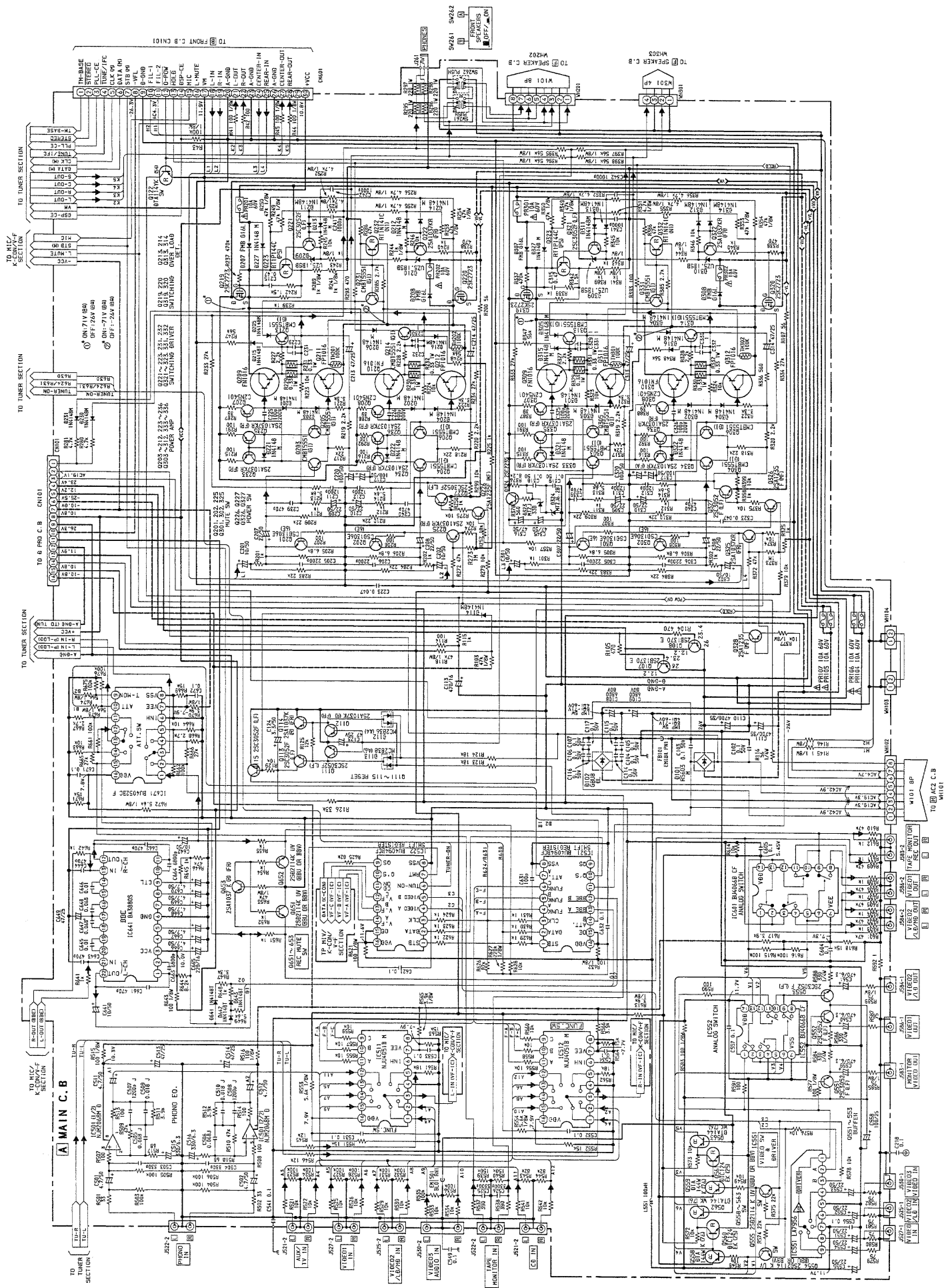


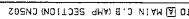
BLOCK DIAGRAM-2 (MAIN SECTION)



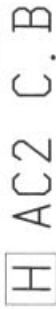


SCHEMATIC DIAGRAM-1 (MAIN AMP SECTION)

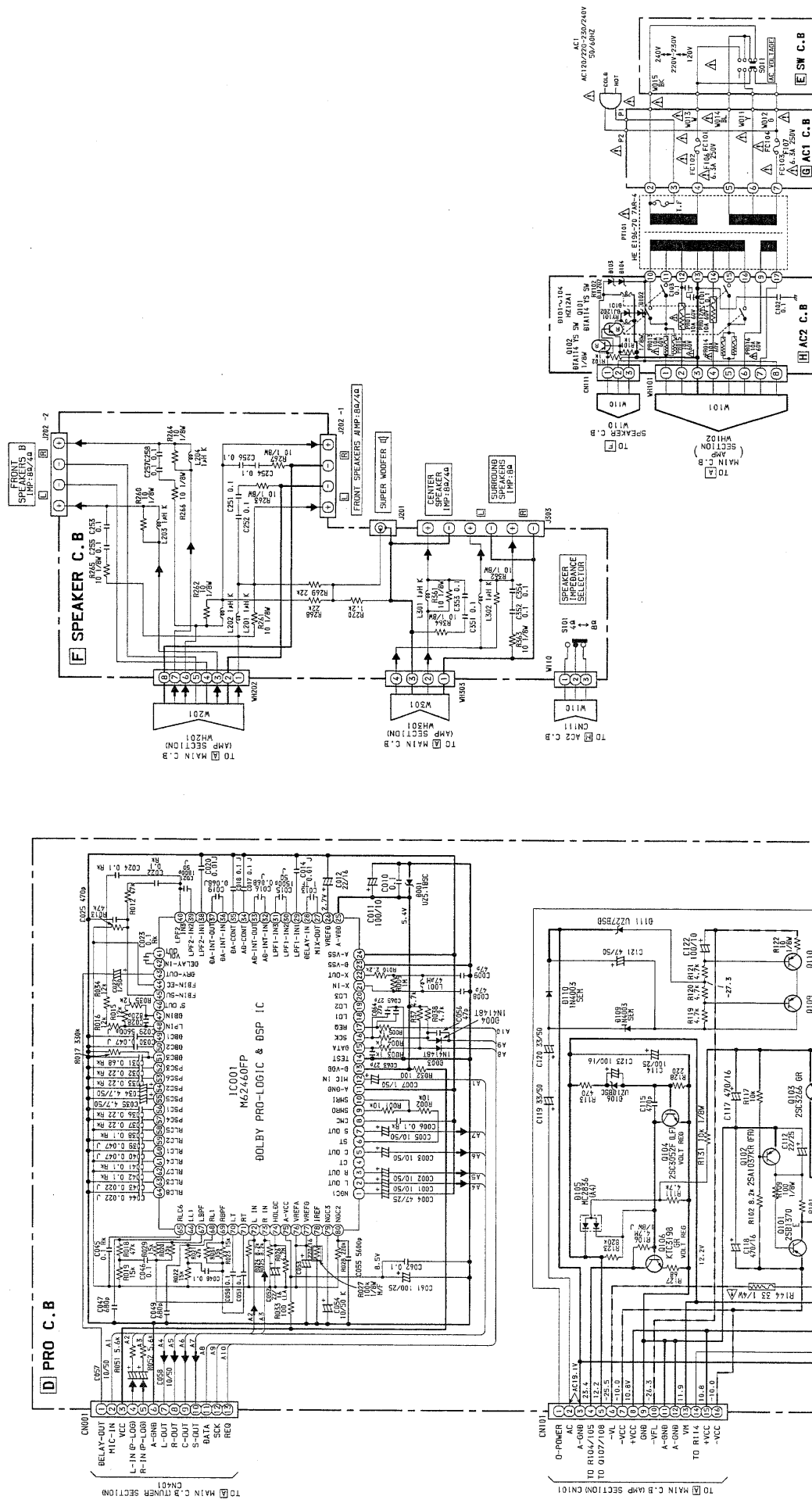




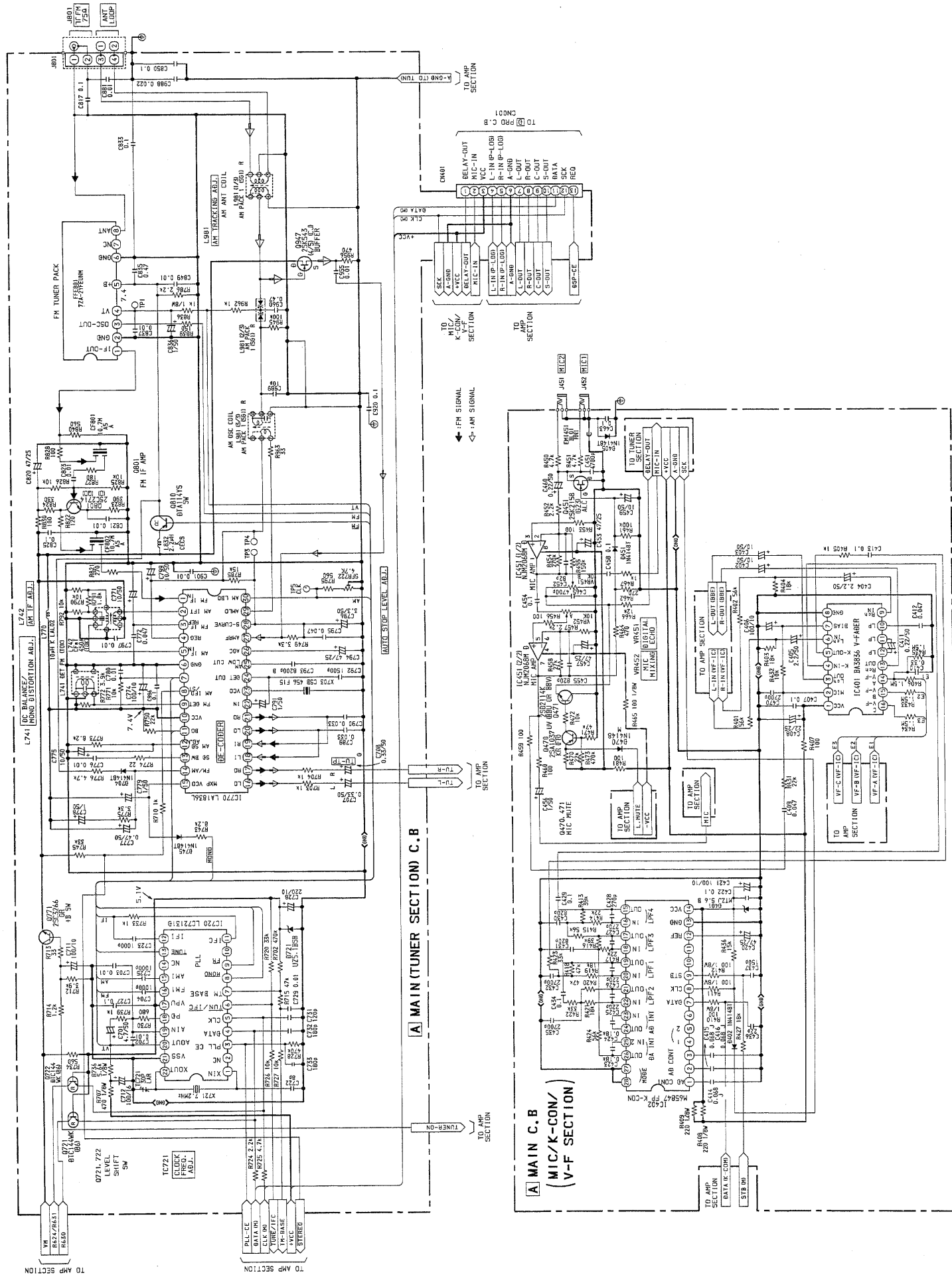




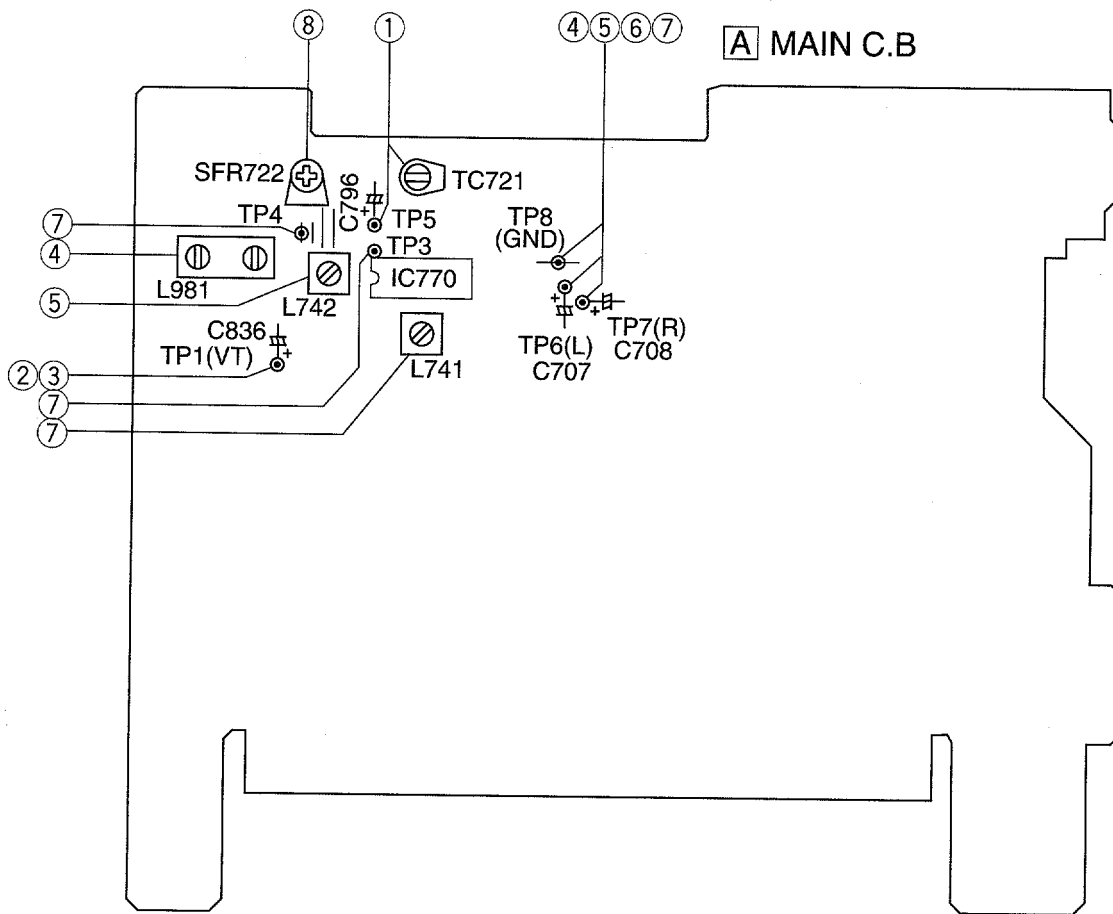
SCHEMATIC DIAGRAM-3 (PRO/SPEAKER/POWER SECTION)



SCHEMATIC DIAGRAM-4 (MAIN TUNER/MICK-KONV-F SECTION)



## ADJUSTMENT



### 1. Clock Frequency Adjustment

Settings: · Test point : TP5(CLK IC770 pin 30)  
· Adjustment location : TC721

Method: Set to AM 1602kHz and adjust TC721 so that the test point becomes  $2052\text{kHz} \pm 0.01\text{kHz}$ .

### 2. AM VT Check

Settings: · Test point : TP1(VT)

Method: Set to AM 531kHz and check the test point is  $1.1 \pm 0.20\text{V}$ .

### 3. FM VT Check

Setting: · Test point : TP1(VT)

Method: Set to FM 108.0MHz and check that the test point is  $7.5 \pm 1.0\text{V}$ . Then set to FM 87.5MHz and check that the test point is  $2.9 \pm 1.0\text{V}$ .

### 4. AM Tracking Adjustment

Settings: · Test point : TP6(Lch), TP7(Rch), TP8(GND)  
· Adjustment location : L981

Method: Set to AM 999kHz and adjust L981 that the test point becomes maximum.

### 5. AM IF Adjustment

Setting: · Test point : TP6(Lch), TP7(Rch), TP8(GND)  
L742 ..... 450kHz

### 6. FM Tracking Check

Setting: · Test point : TP6(Lch), TP7(Rch), TP8(GND)  
Method: Set to FM 87.5MHz and 108.0MHz, and check that the test point is  $4 \pm 4\text{dB}$  and  $6 \pm 4\text{dB}$ .

### 7. DC Balance/MONO Distortion Adjustment

Settings: · Test point : TP3, TP4 (DC Balance)  
TP6(Lch), TP7(Rch), TP8(GND) (Distortion)

· Adjustment location : L741

· Input level : 60dB

Method: Set to FM 98.0MHz and adjust L741 so that the voltage between TP3 and TP4 becomes  $0\text{V} \pm 0.01\text{V}$ .

Next check that the distortion is less than 1.3%.

### 8. Auto Stop Level Adjustment

Settings: · Adjustment location : SFR722  
· Input level : 20dB

Method: Set to FM 98.0MHz and adjust voltage low (about 0.01V) by SFR722. After that voltage high (about 7.0V) out by 2dB down.

## PRACTICAL SERVICE FIGURE

### TUNER SECTION

#### <FM SECTION>

|                                |                             |
|--------------------------------|-----------------------------|
| IHF Sensitivity :              | 6 dB $\pm$ 6 dB             |
| (THD 3 %)                      | (87.5 MHz / 98.0 MHz)       |
|                                | 8 dB $\pm$ 6 dB (108.0 MHz) |
| S/N 50dB Quieting Sensitivity: | 31 dB $\pm$ 5 dB            |
|                                | (87.5 / 98.0 / 108.0 MHz)   |
| Signal to noise ratio :        | More than 64 dB (98.0 MHz)  |
| Distortion :                   | Less than 1.3 % (98.0 MHz)  |
| Stereo separation :            | More than 25 dB (98.0 MHz)  |
| Intermediate frequency :       | 10.7 MHz                    |

#### <AM SECTION>

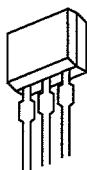
|                          |                                   |
|--------------------------|-----------------------------------|
| Sensitivity :            | 57 dB $\pm$ 6 dB (603 kHz)        |
| (S/N 20 dB)              | 53 dB $\pm$ 6 dB (999 / 1404 kHz) |
| Distortion :             | Less than 1.5 % (1004 kHz)        |
| Auto stop level :        | 50 dB $\pm$ 10 dB (999 kHz)       |
| Intermediate frequency : | 450 kHz                           |

## TRANSISTOR ILLUSTRATION



E C B

2SA952  
2SC2235  
2SC3266  
C2N5401  
CSD655  
KTC3198  
KTA1266



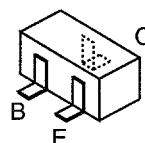
E C B

2SA1175  
DTA114YS

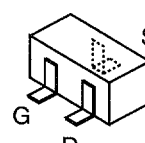


E C B

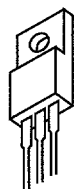
2SB1370



2SA1037  
2SA1235  
2SC2412  
2SC2714  
2SC3052  
2SD2114  
CMBT5551  
CSD1306E  
DTA114YK  
DTA123JK  
DTA144WK  
DTC124EK  
DTC144WK  
RN1410  
RTIN141C  
RTIP144C



2SK543  
2SK2158



G D S

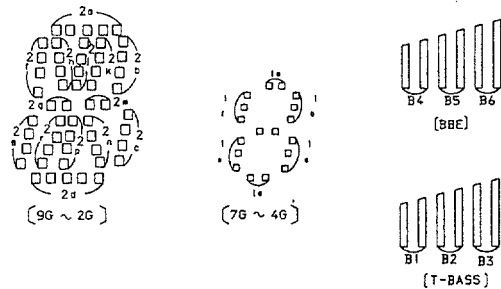
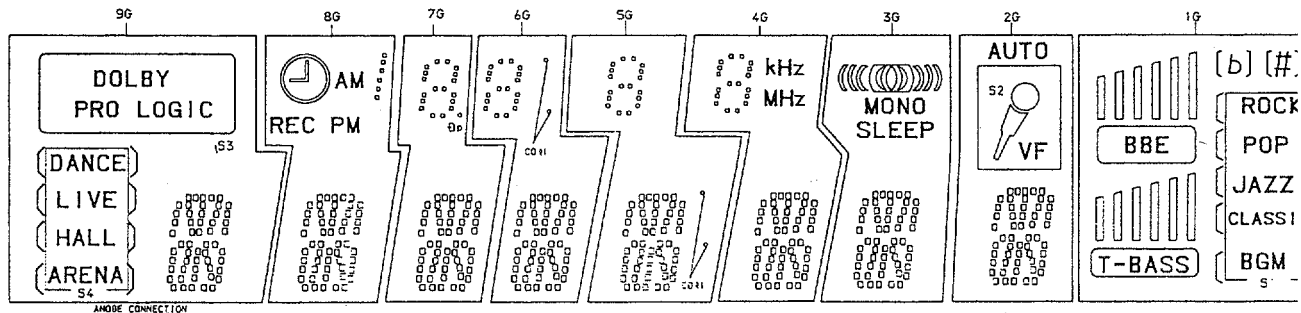
2SK2723



B C E

FN1016  
FP1016

# FL DISPLAY



## ANODE CONNECTION

|     | 9G      | 8G  | 7G           | 6G          | 5G  | 4G | 3G      | 2G   | 1G        |
|-----|---------|-----|--------------|-------------|-----|----|---------|------|-----------|
| P1  | 2d      | 2d  | 2d           | 2d          | 2d  | 2d | 2d      | 2d   | T-BASS    |
| P2  | 2n      | 2n  | 2n           | 2n          | 2n  | 2n | 2n      | 2n   | B3        |
| P3  | 2p      | 2p  | 2p           | 2p          | 2p  | 2p | 2p      | 2p   | B2        |
| P4  | 2r      | 2r  | 2r           | 2r          | 2r  | 2r | 2r      | 2r   | B1        |
| P5  | 2e      | 2e  | 2e           | 2e          | 2e  | 2e | 2e      | 2e   | S1        |
| P6  | 2c      | 2c  | 2c           | 2c          | 2c  | 2c | 2c      | 2c   | {BGM}     |
| P7  | 2g      | 2g  | 2g           | 2g          | 2g  | 2g | 2g      | 2g   | {CLASSIC} |
| P8  | 2m      | 2m  | 2m           | 2m          | 2m  | 2m | 2m      | 2m   | {JAZZ}    |
| P9  | 2f      | 2f  | 2f           | 2f          | 2f  | 2f | 2f      | 2f   | {POP}     |
| P10 | 2b      | 2b  | 2b           | 2b          | 2b  | 2b | 2b      | 2b   | {ROCK}    |
| P11 | 2k      | 2k  | 2k           | 2k          | 2k  | 2k | 2k      | 2k   | {#}       |
| P12 | 2j      | 2j  | 2j           | 2j          | 2j  | 2j | 2j      | 2j   | #         |
| P13 | 2h      | 2h  | 2h           | 2h          | 2h  | 2h | 2h      | 2h   | {(b)}     |
| P14 | 2a      | 2a  | 2a           | 2a          | 2a  | 2a | 2a      | 2a   | b         |
| P15 | S4      | I   | 1d           | 1d          | 1d  | 1d | SLEEP   | S2   | {BBE}     |
| P16 | {ARENA} | PM  | 1e           | 1e          | 1e  | 1e | MONO    | AUTO | B6        |
| P17 | {HALL}  | AM  | 1c           | 1c          | 1c  | 1c | {(000)} | —    | B5        |
| P18 | {LIVE}  | REC | 1g           | 1g          | 1g  | 1g | —       | —    | B4        |
| P19 | {DANCE} | ⌚   | 1f           | 1f          | 1f  | 1f | —       | —    | —         |
| P20 | S3      | —   | 1b           | 1b          | 1b  | 1b | —       | —    | —         |
| P21 | —       | —   | 1a           | 1a          | 1a  | 1a | —       | —    | —         |
| P22 | —       | —   | ⌚1<br>(DOWN) | co12        | MHz | —  | —       | —    | —         |
| P23 | —       | —   | —            | co1<br>(UP) | kHz | —  | —       | —    | —         |

# IC DESCRIPTION

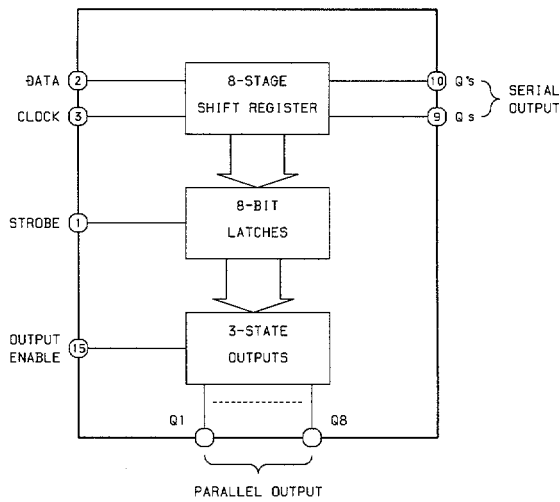
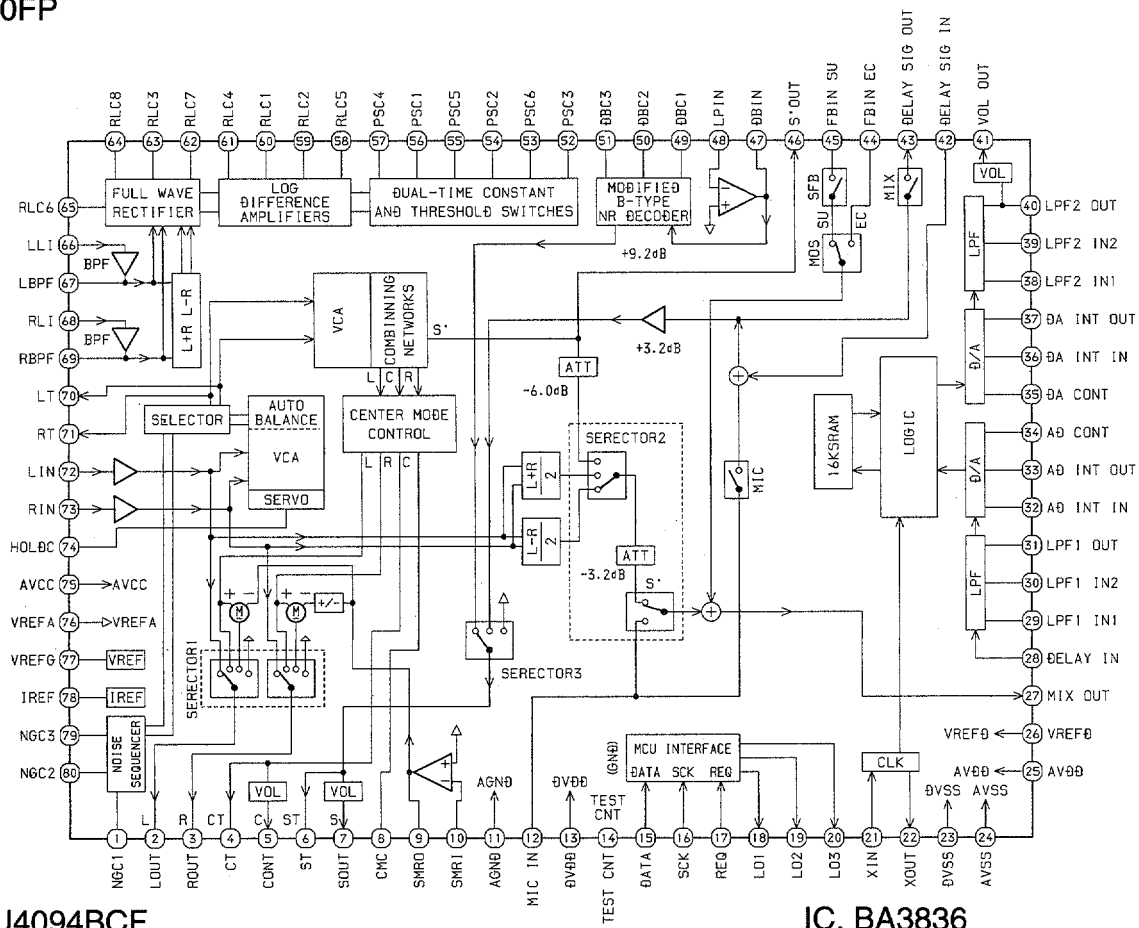
## IC, LC866448W-5E85

| Pin No. | Pin Name                       | I/O | Description                                                            |
|---------|--------------------------------|-----|------------------------------------------------------------------------|
| 1       | O-OSD-CE                       | O   | OSD data latch CE output.                                              |
| 2       | O-STB(M)                       | O   | Main shift register data latch strobe output.                          |
| 3       | O-DATA(M)                      | O   | Main shift register data output.                                       |
| 4       | O-CLK(M)                       | O   | Main shift register clock output.                                      |
| 5       | $\overline{\text{O-POWER}}$    | O   | System power supply ON/OFF output.                                     |
| 6       | $\overline{\text{HOLD}}$       | I   | Power failure detected input "L" to stop clock and maintain memory.    |
| 7       | $\overline{\text{RESET}}$      | I   | Reset input.                                                           |
| 8       | I-RDS DATA                     | I   | RDS data input (TUNER).                                                |
| 9       | $\overline{\text{I-TUNE/IFC}}$ | I   | Tuner $\overline{\text{SD}}$ detect input. IF count serial data input. |
| 10      | VSS1                           | —   | GND.                                                                   |
| 11, 12  | CF1, 2                         | —   | 5.7 MHz oscillator circuit.                                            |
| 13      | VDD1                           | —   | Power supply input.                                                    |
| 14 ~ 16 | I-KEY1 ~ 3                     | I   | Key input. (A/D).                                                      |
| 17      | $\overline{\text{I-STEREO}}$   | I   | TUNER stereo signal input.                                             |
| 18      | I-SYNC DET                     | I   | VIDEO signal level input.                                              |
| 19      | —                              | —   | Not used.                                                              |
| 20      | I-MIC                          | I   | Microphone input for auto VF display.                                  |
| 21      | I-SIG                          | I   | RDS signal input (TUNER).                                              |
| 22      | I-RDS CLK                      | I   | RDS clock input (TUNER).                                               |
| 23      | —                              | —   | Not used.                                                              |
| 24      | $\overline{\text{I-RMS}}$      | I   | System remote control signal input.                                    |
| 25 ~ 33 | G9 ~ G1                        | O   | FL grid output G9 to G1.                                               |
| 34 ~ 40 | P23 ~ P17                      | O   | FL segment output.                                                     |
| 41      | VDD2                           | —   | Power supply input.                                                    |
| 42      | -VP                            | —   | Power supply input for FL display. (-34.5 V)                           |
| 43 ~ 54 | P16 ~ P5                       | O   | FL segment output P16~P5.                                              |
| 55      | P4                             | O   | FL segment output P4, AM stereo, FM-WIDE mode data input to diode.     |
| 56      | P3                             | O   | FL segment output P3, RDS mode data input to diode.                    |
| 57      | P2                             | O   | FL segment output P2, K-CON mode data input to diode.                  |
| 58      | P1                             | O   | FL segment output 1, AM 10kHz step data input to diode.                |
| 59      | O-SW SCAN                      | O   | Switch cam timing output.                                              |
| 60      | O-RDS                          | O   | RDS LED turn output.                                                   |
| 61      | O-EON                          | O   | EON LED turn output.                                                   |
| 62      | O-AG                           | O   | AG LED turn output.                                                    |
| 63      | DSP-CE                         | O   | DSP data latch strobe output.                                          |
| 64      | PLL-CE                         | I/O | PLL IC chip enable.                                                    |
| 65      | GEQ A                          | O   | GEQ control output.                                                    |
| 66      | GEQ B                          | O   | GEQ control output.                                                    |
| 67      | GEQ-C                          | O   | GEQ/T-BASS IC GEQ control output.                                      |
| 68      | VR-UP                          | O   | MVR motor control (up) output.                                         |
| 69      | VR-DOWN                        | O   | MVR motor control (down) output.                                       |

| Pin No. | Pin Name                        | I/O | Description                                       |
|---------|---------------------------------|-----|---------------------------------------------------|
| 70      | O-STB(F)                        | O   | Front shift register, data latch strobe output.   |
| 71      | O-CLK(F)                        | O   | Front shift register, data transfer clock output. |
| 72      | O-DATA(F)                       | O   | Front shift register, data output.                |
| 73      | VSS2                            | —   | GND.                                              |
| 74      | I-TM BASE                       | I   | Reference clock input for timer watch.            |
| 75      | T-BSS A                         | O   | GEQ/T-BASS IC T-BASS control output.              |
| 76      | T-BSS B                         | O   | GEQ/T-BASS IC T-BASS control output.              |
| 77      | O-MUTE                          | O   | System mute output.                               |
| 78      | O-RT                            | O   | RT LED turn output.                               |
| 79      | O-TRFC                          | O   | TRFC LED turn output.                             |
| 80      | $\overline{\text{O-CLK SHIFT}}$ | O   | Micro clock shift output.                         |

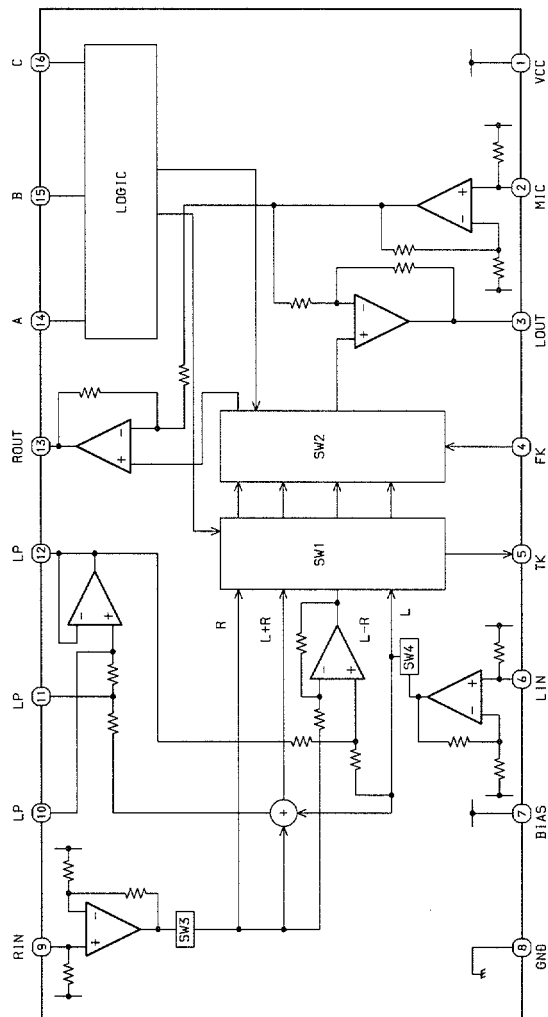
IC BLOCK DIAGRAM

IC, M62460FP

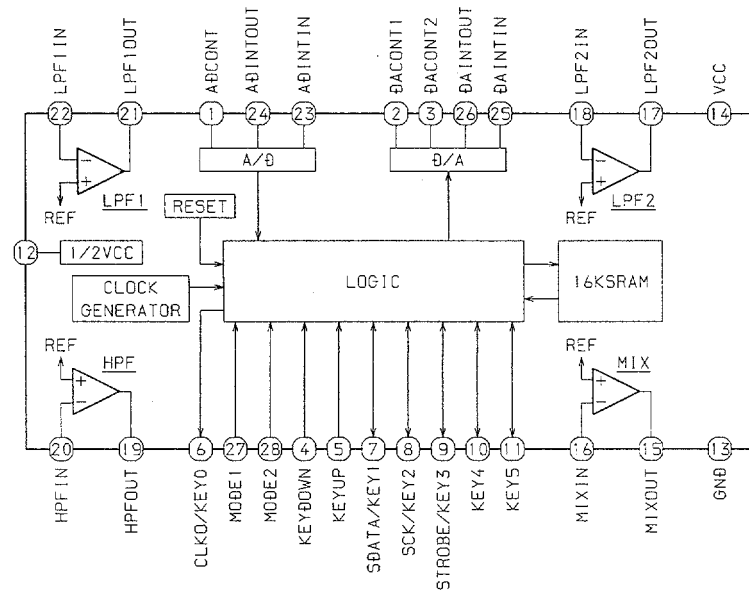


| CLOCK | OUTPUT ENABLE | STROBE | DATA | PARALLEL OUTPUTS |         | SERIAL OUTPUTS |         |
|-------|---------------|--------|------|------------------|---------|----------------|---------|
|       |               |        |      | Q1               | Qn      | Qs             | Q's     |
|       | L             | X      | X    | Z                | Z       | Q7             | No Chg. |
|       | L             | X      | X    | Z                | Z       | No Chg.        | Qs      |
|       | H             | L      | X    | No Chg.          | No Chg. | Q7             | No Chg. |
|       | H             | H      | L    | L                | Qn-1    | Q7             | No Chg. |
|       | H             | H      | H    | H                | Qn-1    | Q7             | No Chg. |
|       | H             | X      | X    | No Chg.          | No Chg. | No Chg.        | Qs      |

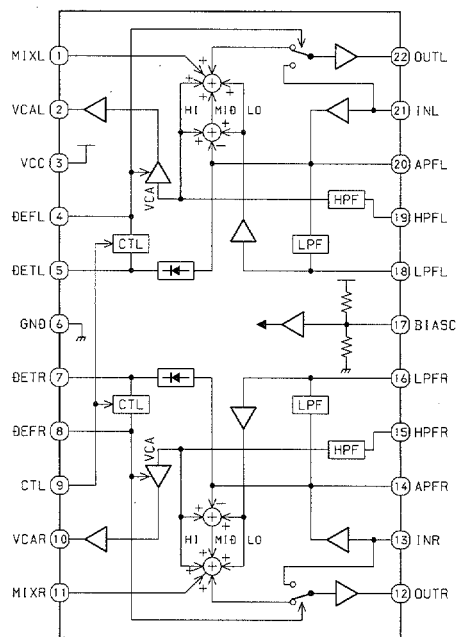
Z=High impedance  
X=Don't Care



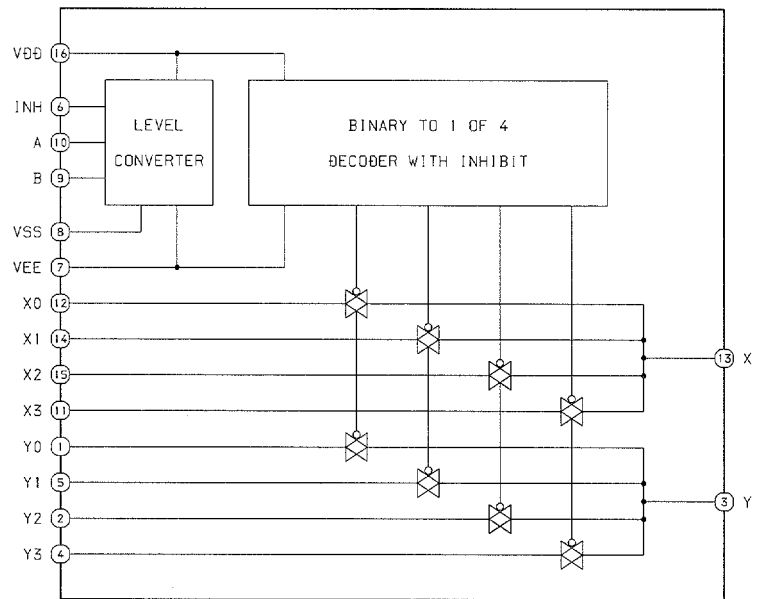
## IC, M65847FP



## IC, BA3880S



## IC, BU4052

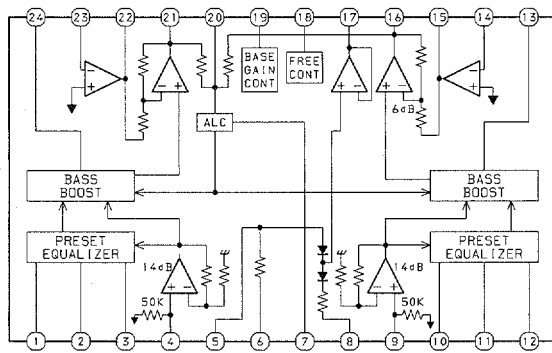


IC, BU4052B  
TRUTH TABLE

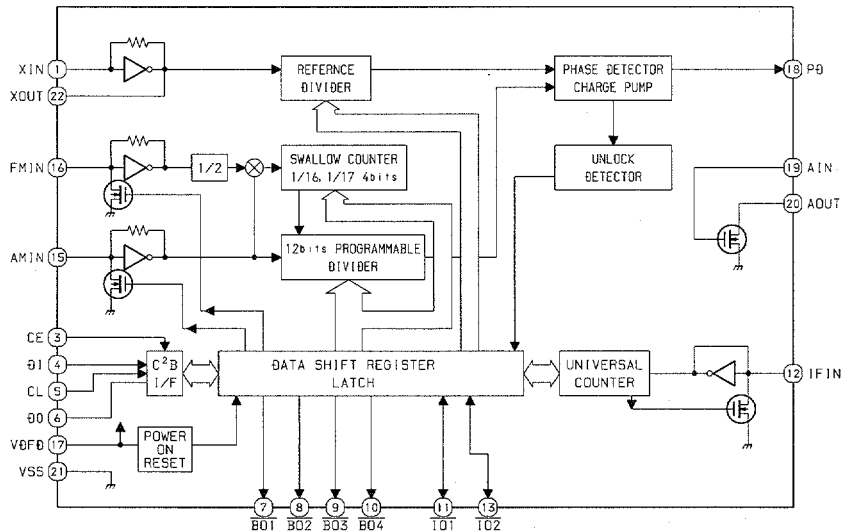
| INHIBIT | A | B | ON SWITCH |
|---------|---|---|-----------|
| L       | L | L | X0 Y0     |
| L       | H | L | X1 Y1     |
| L       | L | H | X2 Y2     |
| L       | H | H | X3 Y3     |
| H       | X | X | NONE      |

X: DON'T CARE.

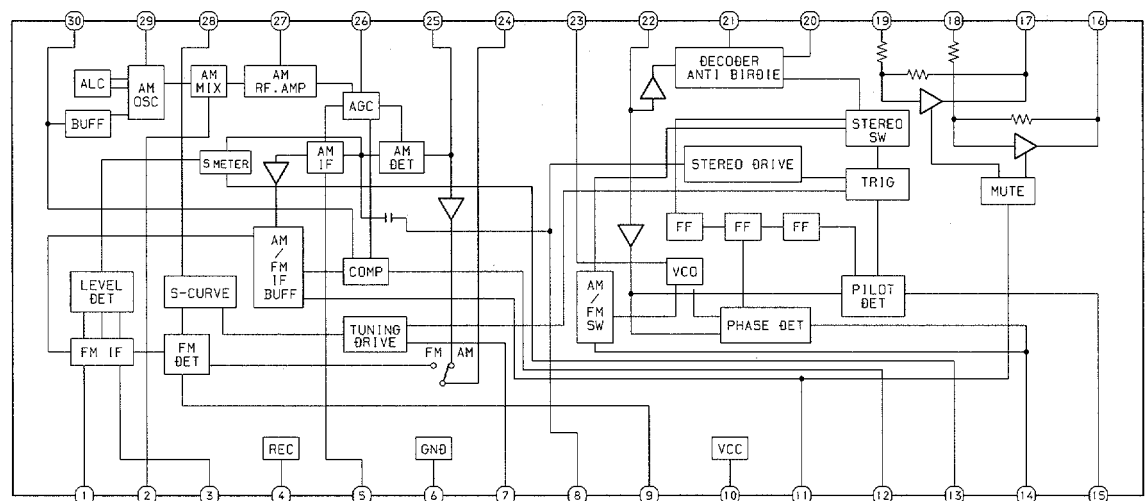
## IC, BA3842F



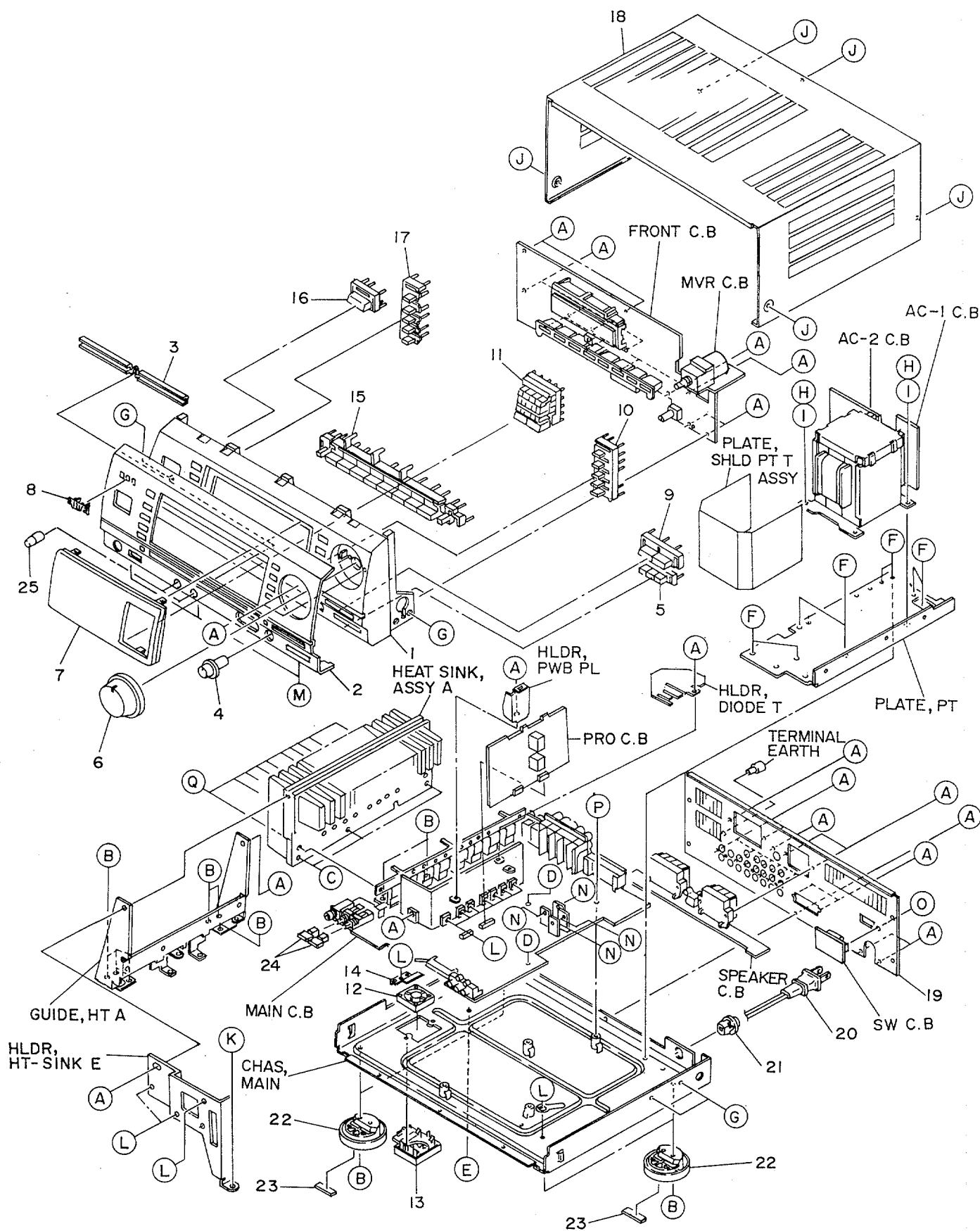
## IC, LC72131D



## IC, LA1836L



# MECHANICAL EXPLODED VIEW 1/1



# MECHANICAL PARTS LIST 1/1

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

| REF. NO | PART NO.       | KANRI NO. | DESCRIPTION           | REF. NO | PART NO.       | KANRI NO. | DESCRIPTION                  |
|---------|----------------|-----------|-----------------------|---------|----------------|-----------|------------------------------|
| 1       | 87-AR4-038-010 |           | CABI,FR H             | A       | 87-067-703-010 |           | TAPPING SCREW, BVT2+3-10     |
| 2       | 87-AR4-001-010 |           | PANEL,FR H            | B       | 87-067-688-010 |           | BVTT+3-6                     |
| 3       | 87-AR4-022-010 |           | LENS,FUN              | C       | 87-067-758-010 |           | BVT2+3-12 W/O SLOT           |
| 4       | 87-AR4-048-010 |           | KNOB,RTRY BAL SIL     | D       | 87-067-581-010 |           | TAPPING SCREW, BVT2+3-15     |
| 5       | 87-AR4-044-010 |           | KEY,RDS SIL           | E       | 87-067-585-010 |           | TAPPING SCREW, BVTT+4-6      |
| 6       | 87-AR4-046-010 |           | KNOB,RTRY VOL SIL     | F       | 87-067-586-010 |           | BVTT+4-8                     |
| 7       | 87-AR4-023-010 |           | WINDOW,DISPLAY        | G       | 87-591-095-410 |           | TAPPING SCREW, QIT+3-8 (GLD) |
| 8       | 87-B00-002-010 |           | BADGE,AIWA 30 ABS SIL | H       | 87-067-975-010 |           | S-SCREW,IT+4-8               |
| 9       | 87-AR4-043-010 |           | KEY,BBE SIL           | I       | 87-067-747-010 |           | W4.3-14-1                    |
| 10      | 87-AR4-006-010 |           | KEY,GEQ               | J       | 87-067-641-010 |           | UTT2+3-8(W/O SLOT)BL         |
| 11      | 87-AR4-049-010 |           | KEY,10 ASSY           | K       | 87-067-698-010 |           | BVT2+3-18 W/O SLOT           |
| 12      | 87-AR4-668-010 |           | FAN,MF40D-12-500MM    | L       | 87-067-579-010 |           | BVT2+3-8 W/O SLOT            |
| 13      | 87-AR4-233-110 |           | COVER,FAN             | M       | 87-067-673-010 |           | TAPPING SCREW, BUTT+3-8 (B)  |
| 14      | 87-AR4-235-010 |           | REFLECTOR AIR         | N       | 87-067-584-010 |           | TAPPING SCREW, BVT2+3-6      |
| 15      | 87-AR4-042-010 |           | KEY,FUN SIL           | O       | 81-653-215-010 |           | SPECIAL SCREW, VT2.6-8       |
| 16      | 87-AR4-041-010 |           | KEY,POWER SIL         | P       | 87-067-632-010 |           | TAPPING SCREW, BVT2+3-15     |
| 17      | 87-AR4-005-010 |           | KEY,DSP               | Q       | 87-B10-098-010 |           | BV2T3B+3-16                  |
| 18      | 87-AR4-036-010 |           | CABI,STEEL H          |         |                |           |                              |
| 19      | 87-AR4-003-010 |           | PANEL,REAR H          |         |                |           |                              |
| 20      | 87-050-079-010 |           | AC-CORD ASSY,E        |         |                |           |                              |
| 21      | 87-085-185-010 |           | BUSHING, AC CORD (E)  |         |                |           |                              |
| 22      | 86-AR5-023-010 |           | FOOT,FR               |         |                |           |                              |
| 23      | 82-VW2-211-010 |           | FELT 20-7.5-2         |         |                |           |                              |
| 24      | 87-AR4-045-010 |           | BTN,SP SIL            |         |                |           |                              |
| 25      | 87-AR4-047-010 |           | KNOB,RTRY MIC SIL     |         |                |           |                              |

## ACCESSORIES LIST

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

| REF. NO | PART NO.       | KANRI<br>NO. | DESCRIPTION                 |
|---------|----------------|--------------|-----------------------------|
| 1       | 87-006-225-010 |              | AM LOOP ANT NC2             |
| 2       | 87-043-115-010 |              | ANT, FEEDER FM              |
| 3       | 87-AR4-901-010 |              | IB, H(EC)M                  |
| 4       | 87-AR4-685-010 |              | RC UNIT, RC-AR01            |
| 5       | 87-A90-312-010 |              | PLUG, CONVERSION WTN-1157R1 |

## REFERENCE NAME LIST

### ELECTRICAL SECTION

| DESCRIPTION | REFERENCE NAME     |
|-------------|--------------------|
| ANT         | ANTENNAS           |
| C-          | CHIP               |
| C-CAP       | CAP, CHIP          |
| C-CAP TN    | CAP, CHIP TANTALUM |
| C-COIL      | COIL, CHIP         |
| C-DI        | DIODE, CHIP        |
| C-DIODE     | DIODE, CHIP        |
| C-FET       | FET, CHIP          |
| C-FOTR      | FILTER, CHIP       |
| C-JACK      | JACK, CHIP         |
| C-LED       | LED, CHIP          |
| C-RES       | RES, CHIP          |
| C-SFR       | SFR, CHIP          |
| C-SLIDE SW  | SLIDE SWITCH, CHIP |
| C-SW        | SWITCH, CHIP       |
| C-TR        | TRANSISTOR, CHIP   |
| C-VR        | VOLUME, CHIP       |
| C-ZENER     | ZENER, CHIP        |
| CAP, CER    | CAP, CERA-SOL      |
| CAP, E      | CAP, ELECT         |
| CAP, M/F    | CAP, FILM          |
| CAP, TC     | CAP, CERA-SOL      |
| CAP, TC-U   | CAP, CERA-SOL SS   |
| CAP, TN     | CAP, TANTALUM      |
| CERA FIL    | FILTER, CERAMIC    |
| CF          | FILTER, CERAMIC    |
| DL          | DELAY LINE         |
| E/CAP       | CAP, ELECT         |
| FILT        | FILTER             |
| FLTR        | FILTER             |
| FUSE RES    | RES, FUSE          |
| MOT         | MOTOR              |
| P-DIODE     | PHOTO DIODE        |
| P-SNSR      | PHOTO SENSER       |
| P-TR        | PHOTO TRANSISTOR   |
| POLY VARI   | VARIABLE CAPACITOR |
| PPCAP       | CAP, PP            |
| PT          | POWER TRANSFORMER  |
| PTR, RES    | PTR, MELF          |
| RC          | REMOTE CONTROLLER  |
| RES NF      | RES, NON-FLAMMABLE |
| RESO        | RESONATOR          |
| SHLD        | SHIELD             |
| SOL         | SOLENOID           |
| SPKR        | SPEAKER            |
| SW, LVR     | SWITCH, LEVER      |
| SW, RTRY    | SWITCH, ROTARY     |
| SW, SL      | SWITCH, SLIDE      |
| TC CAP      | CAP, CERA-SOL      |
| THMS        | THERMISTOR         |
| TR          | TRANSISTOR         |
| TRIMMER     | CAP, TRIMMER       |
| TUN-CAP     | VARIABLE CAPACITOR |
| VIB, CER    | RESONATOR, CERAMIC |
| VIB, XTAL   | RESONATOR, CRYSTAL |
| VR          | VOLUME             |
| ZENER       | DIODE, ZENER       |

### MECHANICAL SECTION

| DESCRIPTION    | REFERENCE NAME      |
|----------------|---------------------|
| ADHESHIVE      | SHEET ADHESHIVE     |
| AZ             | AZIMUTH             |
| BAR-ANT        | BAR-ANTENNA         |
| BAT            | BATTERY             |
| BATT           | BATTERY             |
| BRG            | BEARING             |
| BTN            | BUTTON              |
| CAB            | CABINET             |
| CASS           | CASSETTE            |
| CHAS           | CHASSIS             |
| CLR            | COLLAR              |
| CONT           | CONTROL             |
| CRSR           | CURSOR              |
| CU             | CUSHION             |
| CUSH           | CUSHION             |
| DIR            | DIRECTION           |
| DUBB           | DUBBING             |
| FL             | FRONT LOADING       |
| FLY-WHL        | FLYWHEEL            |
| FR             | FRONT               |
| FUN            | FUNCTION            |
| G-CU           | G-CUSHION           |
| HDL            | HANDOL              |
| HIMERON        | CLOTH               |
| HINGE, BAT     | HINGE, BATTERY      |
| HLDR           | HOLDER              |
| HT-SINK        | HEAT SINK           |
| IB             | INSTRUCTION BOOKLET |
| IDLE           | IDLER               |
| IND, L-R       | INDICATOR, L-R      |
| KEY, CONT      | KEY, CONTROL        |
| KEY, PRGM      | KEY, PROGRAM        |
| KNOB, SL       | KNOB, SLIDE         |
| LBL            | LABEL               |
| LID, BATT      | LID, BATTERY        |
| LID, CASS      | LID, CASSETTE       |
| LVR            | LEVER               |
| P-SP           | P-SPRING            |
| PANEL, CONT    | PANEL, CONTROL      |
| PANEL, FR      | PANEL, FRONT        |
| PRGM           | PROGRAM             |
| PULLY, LOAD MO | PULLY, LOAD MOTOR   |
| RBN            | RIBBON              |
| S-             | SPECIAL             |
| SEG            | SEGMENT             |
| SH             | SHEET               |
| SHLD-SH        | SHIELD-SHEET        |
| SL             | SLIDE               |
| SP             | SPRING              |
| SP-SCREW       | SPECIAL-SCREW       |
| SPACER, BAT    | SPACER, BATTERY     |
| SPR            | SPRING              |
| SPR-P          | P-SPRING            |
| SPR-PC-PUSH    | P-SPRING, C-PUSH    |
| T-SP           | T-SPRING            |
| TERM           | TERMINAL            |
| TRIG           | TRIGGER             |
| TUN            | TUNING              |
| VOL            | VOLUME              |
| W              | WASHER              |
| WHL            | WHEEL               |
| WORM-WHL       | WORM-WHEEL          |

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| G- -       |      |
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