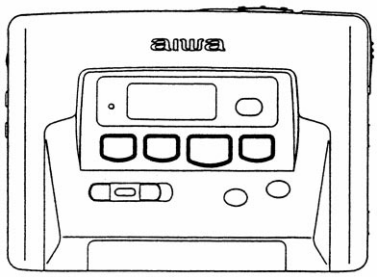
aiwa
SERVICE

# HS-JX807 AH,AU
# HS-JX807D AH
# HS-JX808 AH
# HS-JX808D AH




# SERVICE MANUAL

STEREO RADIO
CASSETTE RECORDER

BASIC TAPE MECHANISM : 6ZM−2 R2

aiwa

S/M Code No. 09-989-289-0OT

# SPECIFICATIONS

**Frequency range:**

**Reception area "EU"** AM 531–1,602kHz (9kHz steps)
FM1,FM2 87.5–108MHz (50kHz steps)

**Reception area "USA"** AM 530–1,710kHz (10kHz steps)
FM1,FM2 87.5–108.1MHz (200kHz steps)

**Reception area "JPN"** AM 531–1,629kHz (9kHz steps)
FM1,FM2 76–108MHz (100kHz step in 76–90MHz, 50kHz step in 90–108MHz)

**Maximum output:** 4mW + 4mW (EIAJ 32ohms)

**Power source:** DC 1.2V using supplied rechargeable battery NB-3A
DC 1.5V using an R6 (size AA) dry cell battery
AC house current using the optional AC adaptor

**Maximum dimensions:** 111.4(W)x79.7(H)x 29.8(D)mm ($4^1/_2$ x $3^1/_4$x $1^3/_{16}$ in.)

**Weight:** Approx.146g (5.1oz) (excluding batteries)

**<Battery charger RB-N01>**

**Rated voltage:** AC 115V–230V, 50/60Hz

- Design and specifications are subject to change without notice.
- "DOLBY" and the double-D symbol ⧫ are trademarks of Dolby Laboratories Licensing Corporation.

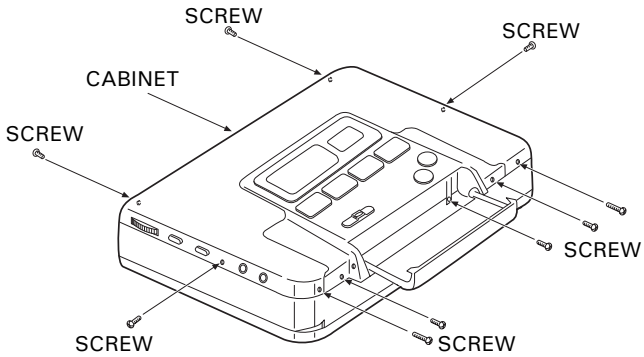
# ACCESSORIES / PACKAGE LIST

| REF.NO. | PART NO. | KANRI NO. | DESCRIPTION |
|---|---|---|---|
| 1 | 88-HJ3-901-010 | | IB,EC-808<808AH,808DAH> |
| 1 | 88-HJ3-902-010 | | IB,EC-807<807AH,807DAH> |
| 1 | 88-HJ3-903-010 | | IB,SF-807<807AU> |
| 1 | 88-HJ3-904-010 | | IB,E-807<807AU> |
| 2 | 87-B30-122-010 | | HEADPHONE,HP-M023<808AH,808DAH> |
| 2 | 87-B30-152-010 | | HEADPHONE,HP-MR002A(T)<807AH,807AU,807DAH> |
| 3 | 86-HJ4-950-010 | | CASE,CARRYING |
| 4 | 87-041-083-110 | | MIC,CM-S40A<807AH,807AU,807DAH> |
| 4 | 87-B30-138-010 | | MIC,CM-MS001<808AH,808DAH> |
| ⚠ 5 | 87-B30-174-010 | | CHARGER,RB-N01UNC<807AU> |
| ⚠ 5 | 87-B30-135-010 | | CHARGER,RB-N01HNC<EXCEPT 807AU> |
| 6 | 87-047-153-210 | | BAT,NB-3A-PH |
| 7 | 88-HJ3-951-010 | | RC UNIT,RC808<808AH,808DAH> |

# DISASSEMBLY INSTRUCTIONS

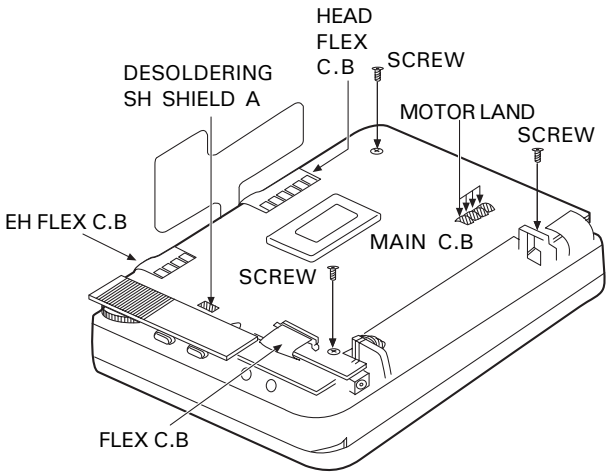
## • REMOVAL OF CABINET

1) Remove the 9 screws.
2) Remove the cabinet.



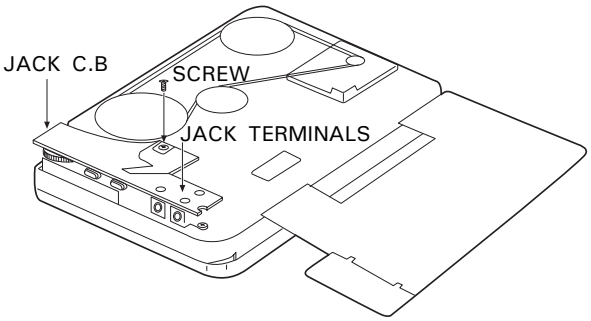

## • REMOVAL OF MAIN C.B

1) Remove the 3 screws.
2) Remove SH SHIELD A.
3) Remove the EH FLEX C.B.
4) Remove the HEAD FLEX C.B.
5) Remove the FLEX C.B from the connector.
6) Remove the soldering of the motor terminal.
7) Remove the battery terminal from the holder and pull up the MAIN C.B.




## • REMOVAL OF JACK C.B

1) Remove the screw on the JACK C.B.
2) Remove the soldering of the jack terminals.
3) Pull up the JACK C.B.



# ELECTRICAL MAIN PARTS LIST

| REF.NO. | PART NO. | KANRI NO. | DESCRIPTION |
|---|---|---|---|
| IC | | | |
| | 87-A20-745-040 | | C-IC,TA2030FN |
| | 87-A20-076-040 | | C-IC,TA2022AFN |
| | 87-A20-124-080 | | IC,TK11823 |
| | 87-A20-441-010 | | C-IC,BA3632K |
| | 87-A20-818-040 | | C-IC,NJM2185AV |
| | 87-A20-580-040 | | C-IC,BA3641FV |
| | 87-A20-878-040 | | C-IC,TK70403M |
| | 87-A20-880-010 | | C-IC,TC9327F-017 |
| | 87-A21-050-040 | | C-IC,S-808010ANNP-E72-T2 |
| | 87-A20-755-080 | | C-IC,AK93C45AF |
| | 87-A20-757-040 | | C-IC,S-80815ANNP-EDC-T2 |
| | 87-A20-961-040 | | C-IC,MM1279XV |
| | 87-A20-603-040 | | C-IC,RN5RK241A |
| TRANSISTOR | | | |
| | 87-026-482-080 | | TR,RN4610 |
| | 87-A30-188-080 | | C-TR,2SC4915(O) |
| | 89-342-153-080 | | TR,2SC4215 |
| | 87-026-343-080 | | C-TR,DTC123JU |
| | 89-508-814-080 | | C-FET,2SK881Y |
| | 87-026-425-080 | | C-TR,RN2307 |
| | 87-026-480-080 | | TR,RN4605(0.3W) |
| | 89-508-804-080 | | C-FET,2SK880Y |
| | 89-341-165-080 | | C-TR,2SC4116GR |
| | 87-026-597-080 | | C-TR,UMH3 |
| | 87-026-352-080 | | C-TR,DTC144TU |
| | 89-113-625-080 | | TR,2SA1362GR |
| | 87-026-585-080 | | C-TR,IMX1HQQ |
| | 87-026-461-080 | | C-TR,IMH3 |
| | 87-026-532-080 | | C-TR,RN2907 |
| | 87-026-596-080 | | C-TR,UMH9 |
| | 87-026-424-080 | | C-TR,RN2306 |
| | 87-026-524-080 | | C-TR,HN1C03FU(B) |
| | 89-413-284-080 | | TR,2SD1328T |
| | 87-026-346-080 | | C-TR,DTC114YU |
| | 87-A30-228-080 | | C-TR,UMB3 |
| | 87-026-481-080 | | TR,RN4607(0.3W) |
| | 89-342-132-080 | | TR,2SC4213 |
| | 87-026-648-080 | | C-TR,UPA608T |
| DIODE | | | |
| | 87-017-366-080 | | DIODE,DAN202U |
| | 87-017-367-080 | | DIODE,DAP202U |
| | 87-001-553-080 | | C-DIODE,1SS322 |
| MAIN C.B | | | |
| | 87-A90-291-080 | | C-FLTR,KMFC5132-AE-TC |
| BPF201 | 81-HW1-628-080 | | C-BAND PASE FILTER |
| C201 | 87-A10-031-080 | | C-CAP,U 0.01-25 KB |
| C202 | 87-012-274-080 | | C-CAP,U 1000P-50 B |
| C203 | 87-A10-031-080 | | C-CAP,U 0.01-25 KB |
| C204 | 87-012-270-080 | | C-CAP,470P |
| C205 | 87-A10-031-080 | | C-CAP,U 0.01-25 KB |
| C206 | 87-012-165-080 | | CAP,3P |
| C207 | 87-012-162-080 | | C-CAP,U 1P-50 CK |
| C208 | 87-A10-031-080 | | C-CAP,U 0.01-25 KB |
| C209 | 87-012-193-080 | | C-CAP,U 82P-50 CH |
| C210 | 87-A10-368-080 | | C-CAP,S 2.2-10 ZF |
| C211 | 87-A10-030-080 | | C-CAP,U 100P-50 CH |
| C212 | 87-A10-030-080 | | C-CAP,U 100P-50 CH |
| C214 | 87-012-275-080 | | C-CAP,U 1200P-50 B |
| C251 | 87-A10-368-080 | | C-CAP,S 2.2-10 ZF |
| C254 | 87-A10-031-080 | | C-CAP,U 0.01-25 KB |
| C257 | 87-A10-263-080 | | C-CAP,U 0.1-16 ZF |
| C259 | 87-012-172-080 | | C-CAP,U 10P CH |
| C260 | 87-012-180-080 | | C-CAP,U 22P-50 CH |
| C261 | 87-012-140-080 | | CAP,470P |
| C262 | 87-012-245-080 | | C-CAP,U 15P-50 UJ |
| C263 | 87-010-787-080 | | C-CAP,U 0.022-25 |
| C264 | 87-012-274-080 | | C-CAP,U 1000P-50 B |
| C265 | 87-A10-353-080 | | C-CAP,U 0.22-10 KB |
| C266 | 87-010-787-080 | | C-CAP,U 0.022-25 |
| C267 | 87-A10-263-080 | | C-CAP,U 0.1-16 ZF |
| C268 | 87-A10-249-080 | | C-CAP,U 1-10 ZF |
| C269 | 87-012-273-080 | | C-CAP,U 820P-50 B |
| C270 | 87-A10-031-080 | | C-CAP,U 0.01-25 KB |
| C271 | 87-A10-418-080 | | C-CAP,TN 22-4 A TCF |
| C272 | 87-A10-249-080 | | C-CAP,U 1-10 ZF |
| C273 | 87-A10-422-080 | | C-CAP,TN 10-4 A TCF |
| C274 | 87-012-274-080 | | C-CAP,U 1000P-50 B |
| C275 | 87-012-282-080 | | CAP,U 4700P-50 |
| C276 | 87-012-349-080 | | C-CAP,S 1000P-50 CH |
| C277 | 87-010-829-080 | | CAP,U 0.047-16 |
| C278 | 87-012-274-080 | | C-CAP,U 1000P-50 B |
| C279 | 87-012-282-080 | | CAP,U 4700P-50 |
| C280 | 87-012-282-080 | | CAP,U 4700P-50 |
| C281 | 87-A10-249-080 | | C-CAP,U 1-10 ZF |
| C282 | 87-A10-249-080 | | C-CAP,U 1-10 ZF |
| C283 | 87-A10-418-080 | | C-CAP,TN 22-4 A TCF |
| C284 | 87-A10-368-080 | | C-CAP,S 2.2-10 ZF |
| C301 | 87-010-787-080 | | CAP,U 0.022-25 |
| C302 | 87-A10-419-080 | | C-CAP,TN 1-16 A TCF |
| C303 | 87-A10-707-080 | | C-CAP,U 0.47-10 ZF |
| C304 | 87-A10-251-080 | | C-CAP,TN 33-2.5 A |
| C305 | 87-A10-264-080 | | C-CAP,S 0.1-16 ZF |
| C306 | 87-012-167-080 | | C-CAP,U 5P-50 CH |
| C307 | 87-012-174-080 | | C-CAP,CERA SS 12P CHJ |
| C308 | 87-012-191-080 | | C-CAP,68 PF |
| C401 | 87-012-274-080 | | C-CAP,U 1000P-50 B |
| C402 | 87-012-274-080 | | C-CAP,U 1000P-50 B |
| C403 | 87-012-274-080 | | C-CAP,U 1000P-50 B |
| C404 | 87-012-274-080 | | C-CAP,U 1000P-50 B |
| C405 | 87-016-117-080 | | C-CAP,U 0.018-25 JB |
| C406 | 87-016-117-080 | | C-CAP,U 0.018-25 JB |
| C407 | 87-016-296-080 | | C-CAP,TN 22-4SV(A) |
| C408 | 87-016-296-080 | | C-CAP,TN 22-4SV(A) |
| C409 | 87-010-828-080 | | C-CAP,U 0.033-25 F |
| C410 | 87-010-828-080 | | C-CAP,U 0.033-25 F |
| C411 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C412 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C415 | 87-012-272-080 | | C-CAP,U 680P-50 B |
| C416 | 87-012-272-080 | | C-CAP,U 680P-50 B |
| C417 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C418 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C419 | 87-A10-263-080 | | C-CAP,U 0.1-16 ZF |
| C420 | 87-A10-263-080 | | C-CAP,U 0.1-16 ZF |
| C423 | 87-A10-703-080 | | C-CAP,TN 47-2.5 MA |
| C424 | 87-A10-263-080 | | C-CAP,U 0.1-16 ZF |
| C425 | 87-016-296-080 | | C-CAP,TN 22-4SV(A) |
| C426 | 87-010-829-080 | | CAP,U 0.047-16 |
| C427 | 87-A10-781-080 | | C-CAP,U 0.15-10 KB |
| C428 | 87-016-504-080 | | C-CAP,TN 6.8-4(A2) |
| C429 | 87-A10-260-080 | | C-CAP,U 0.1-16 KB |
| C431 | 87-016-296-080 | | C-CAP,TN 22-4SV(A) |
| C432 | 87-016-286-080 | | C-CAP,TN 2.2-6.3 F93 |
| C433 | 87-A10-263-080 | | C-CAP,U 0.1-16ZF |
| C434 | 87-010-274-080 | | C-CAP,TN 3.3-4 |
| C435 | 87-A10-704-080 | | C-CAP,TN 100-2.5 M B2 |
| C436 | 87-010-787-080 | | CAP,U 0.022-25 |
| C437 | 87-A10-263-080 | | C-CAP,U 0.1-16 ZF |
| C438 | 87-012-273-080 | | C-CAP,U 820P-50 B |
| C439 | 87-A10-263-080 | | C-CAP,U 0.1-16 ZF |
| C440 | 87-A10-263-080 | | C-CAP,U 0.1-16 ZF |
| C441 | 87-010-746-080 | | CAP,TANTAL 10-4 |
| C442 | 87-012-274-080 | | C-CAP,U 1000P-50 B |
| C443 | 87-A10-827-080 | | C-CAP,U 0.47-6.3 KB |

| REF.NO. | PART NO. | KANRI NO. | DESCRIPTION |
|---|---|---|---|
| C444 | 87-A10-827-080 | | C-CAP,U 0.47-6.3 KB |
| C445 | 87-A10-353-080 | | C-CAP,U 0.22-10 KB |
| C446 | 87-A10-353-080 | | C-CAP,U 0.22-10 KB |
| C450 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C451 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C452 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C453 | 87-012-274-080 | | C-CAP,U 1000P-50 B |
| C501 | 87-012-274-080 | | C-CAP,U 1000P-50 B |
| C502 | 87-012-274-080 | | C-CAP,U 1000P-50 B |
| C503 | 87-012-274-080 | | C-CAP,U 1000P-50 B |
| C504 | 87-012-274-080 | | C-CAP,U 1000P-50 B |
| C505 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C506 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C507 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C508 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C509 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C510 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C511 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C512 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C513 | 87-012-271-080 | | CAP,U 560P-50 |
| C514 | 87-012-267-080 | | C-CAP,U 270P-50 B |
| C515 | 87-012-278-080 | | C-CAP,U 2200P-50 B |
| C516 | 87-A10-031-080 | | C-CAP,U 0.01-25 KB |
| C517 | 87-A10-031-080 | | C-CAP,U 0.01-25 KB |
| C518 | 87-012-279-080 | | C-CAP,U 2700P-50 B |
| C519 | 87-016-296-080 | | C-CAP,TN 22-4SV(A) |
| C520 | 87-010-746-080 | | CAP,TANTAL 10-4 |
| C521 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C522 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C523 | 87-015-923-080 | | C-CAP,TN 0.22-35 |
| C524 | 87-015-923-080 | | C-CAP,TN 0.22-35 |
| C525 | 87-010-787-080 | | CAP,U 0.022-25 |
| C526 | 87-010-787-080 | | CAP,U 0.022-25 |
| C527 | 87-A10-704-080 | | C-CAP,TN 100-2.5 M B2 |
| C528 | 87-016-296-080 | | C-CAP,TN 22-4SV(A) |
| C529 | 87-A10-031-080 | | C-CAP,U 0.01-25 KB |
| C530 | 87-010-746-080 | | CAP,TANTAL 10-4 |
| C531 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C532 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C533 | 87-010-505-080 | | C-CAP,TANTALUM 1-16 |
| C534 | 87-A10-263-080 | | C-CAP,U 0.1-16 ZF |
| C535 | 87-010-196-080 | | C-CAP,0.1-25 |
| C536 | 87-010-196-080 | | C-CAP,0.1-25 |
| C601 | 87-A10-263-080 | | C-CAP,U 0.1-16 ZF |
| C603 | 87-A10-031-080 | | C-CAP,U 0.01-25 KB |
| C604 | 87-016-296-080 | | C-CAP,TN 22-4SV(A) |
| C605 | 87-012-172-080 | | C-CAP,U 10P CH |
| C606 | 87-012-172-080 | | C-CAP,U 10P CH |
| C607 | 87-A10-025-080 | | C-CAP,U 0.22-16 ZF |
| C608 | 87-A10-263-080 | | C-CAP,U 0.1-16 ZF |
| C609 | 87-A10-263-080 | | C-CAP,U 0.1-16 ZF |
| C610 | 87-A10-263-080 | | C-CAP,U 0.1-16 ZF |
| C611 | 87-A10-263-080 | | C-CAP,U 0.1-16 ZF |
| C613 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C701 | 87-A10-031-080 | | C-CAP,U 0.01-25 KB |
| C702 | 87-A10-260-080 | | C-CAP,U 0.1-16 KB |
| C703 | 87-A10-950-080 | | C-CAP,S 4.7-10 ZF |
| C704 | 87-A10-263-080 | | C-CAP,U 0.1-16 ZF |
| C705 | 87-A10-025-080 | | C-CAP,U 0.22-16 ZF |
| C706 | 87-A10-707-080 | | C-CAP,U 0.47U-16 FZ |
| C707 | 87-A10-031-080 | | C-CAP,U 0.01-25 KB |
| C708 | 87-A10-031-080 | | C-CAP,U 0.01-25 KB |
| C709 | 87-A10-031-080 | | C-CAP,U 0.01-25 KB |
| C801 | 87-010-674-080 | | CAP,ELECT 220-2 |
| C805 | 87-016-296-080 | | C-CAP,TN 22-4SV(A) |
| CF251 | 87-A90-456-080 | | C-FLTR,PFWCC 450J3 |
| CN401 | 87-A60-473-080 | | C-CONN,18P H SFV2ST |
| D201 | 87-A40-517-040 | | C-VARI-CAP,SVC208 |
| D202 | 87-A40-517-040 | | C-VARI-CAP,SVC208 |
| D251 | 87-A40-462-040 | | C-VARI-CAP,SVC347(S) |
| IFT251 | 87-005-788-080 | | C-IFT,AM(450K) |
| J801 | 87-A60-319-010 | | JACK,DC DIA 2.75 |
| L201 | 87-A50-245-080 | | C-COIL,S 0.1UH G |
| L202 | 87-A50-244-080 | | C-COIL,S 82NH G |
| L203 | 87-005-564-080 | | C-COIL,S 2.2MH |
| L251 | 88-HJ3-610-010 | | BAR-ANT,MW |
| L252 | 87-A50-194-080 | | C-COIL,100UH J N |
| L253 | 87-003-245-080 | | C-COIL,22UH |
| L301 | 87-A50-037-080 | | C-COIL,D-D 5CDLU |
| L403 | 87-A50-322-080 | | C-COIL,S BK2125LM252 |
| L404 | 87-HJ2-613-010 | | COIL,LOADING3.3UH |
| L405 | 87-003-245-080 | | C-COIL,22UH |
| L501 | 87-HJ3-605-080 | | C-COIL,OSC BIAS |
| L803 | 87-003-089-110 | | CHOKE-COIL,47UH FL5R200F |
| L804 | 87-003-089-110 | | CHOKE-COIL,47UH FL5R200F |
| L805 | 87-003-246-080 | | C-COIL,33UH |
| LCD601 | 88-HJ3-608-010 | | LCD,AIW4145 |
| LED601 | 87-070-079-080 | | C-LED,SML-010 VT |
| PS601 | 87-A90-440-010 | | SNSR,PHOTO GP2S24N2-B |
| R403 | 87-022-432-080 | | C-RES,U 270-1/16WF |
| R404 | 87-022-432-080 | | C-RES,U 270-1/16WF |
| R405 | 87-022-437-080 | | C-RES,U 430-1/16WF |
| R406 | 87-022-437-080 | | C-RES,U 430-1/16WF |
| R434 | 87-022-252-080 | | C-RES,U 36K-1/16WF |
| R612 | 87-022-245-080 | | C-RES,U 18K-1/16WF |
| R613 | 87-022-245-080 | | C-RES,U 18K-1/16WF |
| R616 | 87-022-223-080 | | C-RES,U 2.2K-1/16WF |
| R617 | 87-022-223-080 | | C-RES,U 2.2K-1/16WF |
| R618 | 87-022-223-080 | | C-RES,U 2.2K-1/16WF |
| R619 | 87-022-227-080 | | C-RES,U 3.3K-1/16WF |
| R620 | 87-022-227-080 | | C-RES,U 3.3K-1/16WF |
| R621 | 87-022-231-080 | | C-RES,U 4.7K-1/16WF |
| R804 | 87-022-569-080 | | C-RES,0.47-1/2WK |
| S501 | 87-036-415-080 | | C-SW,SL 1-3BSSSS8 |
| S601 | 87-036-220-080 | | C-SW,TACT SKQBAA |
| S602 | 87-A90-361-010 | | SW,PUSH SPPB51-H11.3 |
| S603 | 87-A90-356-210 | | SW,LEAF 6ZM-2 |
| S604 | 87-036-373-080 | | C-SW,SLIDE 1-1-2(E) |
| S605 | 87-036-220-080 | | C-SW,TACT SKQBAA |
| S606 | 87-A90-665-080 | | C-SW,TACT LS7A2M |
| S607 | 87-A90-665-080 | | C-SW,TACT LS7A2M |
| S608 | 87-A90-665-080 | | C-SW,TACT LS7A2M |
| S609 | 87-A90-665-080 | | C-SW,TACT LS7A2M |
| S610 | 87-A90-665-080 | | C-SW,TACT LS7A2M |
| S611 | 87-036-203-180 | | C-SW,SL1-1-3 SSSS81 |
| S614 | 87-HJ3-608-010 | | SW,LEAF REC ASSY |
| S615 | 87-HJ3-608-010 | | SW,LEAF REC ASSY |
| SFR701 | 87-024-406-080 | | C-SFR,6.8K RH03A3A |
| TC201 | 87-011-189-080 | | C-TRIMMER,CTZ-10A |
| TC202 | 87-A90-688-080 | | C-TRIMMER,30P CTZ2S-30C |
| TC251 | 87-011-189-080 | | C-TRIMMER,CTZ-10A |
| TH701 | 87-A90-855-080 | | C-THMS,SC20-3K102K |
| VR251 | 87-A90-027-080 | | C-SFR,22K H CVR-32 |
| X601 | 87-A70-078-110 | | VIB,XTAL 75KHZ KF-26R5 |

JACK C.B

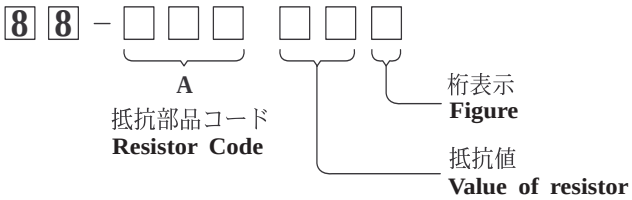
| | | | |
|---|---|---|---|
| C413 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C414 | 87-A10-262-080 | | C-CAP,U 1-10 ZF |
| C421 | 87-010-673-080 | | CAP,ELECT 100-2 |
| C422 | 87-010-673-080 | | CAP,ELECT 100-2 |
| J402 | 87-A60-273-010 | | JACK,DIA3.5 ST5P<807,807D> |
| J402 | 85-HK3-605-010 | | JACK,DIA3.5 ST5P<808,808D> |
| J501 | 87-A60-416-010 | | JACK,3.5 BLK ST 3P |
| L401 | 87-A50-322-080 | | COIL,S BK2125LM252 |
| L402 | 87-A50-322-080 | | COIL,S BK2125LM252 |
| L601 | 87-A50-322-080 | | COIL,S BK2125LM252<808,808D> |
| L602 | 87-A50-322-080 | | COIL,S BK2125LM252<808,808D> |
| L603 | 87-A50-322-080 | | COIL,S BK2125LM252<808,808D> |
| L604 | 87-A50-322-080 | | COIL,S BK2125LM252<808,808D> |

| REF.NO. | PART NO. | KANRI NO. | DESCRIPTION |
|---|---|---|---|
| L605 | 87-A50-322-080 | | COIL,S BK2125LM252 |
| L606 | 87-A50-322-080 | | COIL,S BK2125LM252<807,807D> |
| S612 | 87-A90-378-080 | | C-SW,PUSH PTO35C1T |
| S613 | 87-A90-378-080 | | C-SW,PUSH PTO35C1T |
| VR401 | 88-HJ3-609-080 | | C-VR,RTRY 50KCX2 XV0103G |
| **DD C.B** | | | |
| C802 | 87-016-444-080 | | C-CAP,TN 47-10 F95E |
| C803 | 87-016-444-080 | | C-CAP,TN 47-10 F95E |
| C804 | 87-A10-034-080 | | C-CAP,TN 33-10(B2) |
| L801 | 87-A50-174-080 | | C-COIL, 82UH 7004-2 |
| L802 | 87-A50-010-080 | | C-COIL,22UH LQH3C |
| **FLEX C.B** | | | |
| | 88-HJ3-606-010 | | PWB,FLEX 18P |
| **HEAD FLEX C.B** | | | |
| RPH | 86-ZM2-323-010 | | HEAD ASSY,R2 |
| **DD CON FLEX C.B** | | | |
| | 88-HJ3-607-010 | | PWB,FLEX 4P |
| **EH FLEX C.B** | | | |
| | 86-ZM2-326-010 | | HEAD ASSY,EH 6ZM-2 R2 |

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

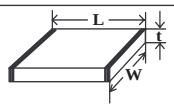
チップ抵抗部品コードの成り立ち

**Chip Resistor Part Coding**

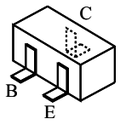



チップ抵抗

**Chip resistor**

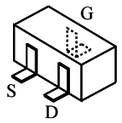
| 容量 **Wattage** | 種類 **Type** | 許容誤差 **Tolerance** | 記号 **Symbol** | 寸法／**Dimensions** 外形／**Form** | **L** | **W** | **t** | 抵抗コード **:A** **Resistor :A** |
|---|---|---|---|---|---|---|---|---|
| **1/16W** | **1608** | **±5%** | **CJ** |  | **1.6** | **0.8** | **0.45** | **108** |
| **1/10W** | **2125**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

## TRANSISTOR ILLUSTRATION

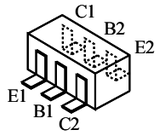



2SA1362
2SC4116
2SC4213
2SC4215
2SC4915
2SD1328

DTC114YU
DTC123JU
DTC144TU
RN2307
RN2306

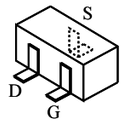



2SK880



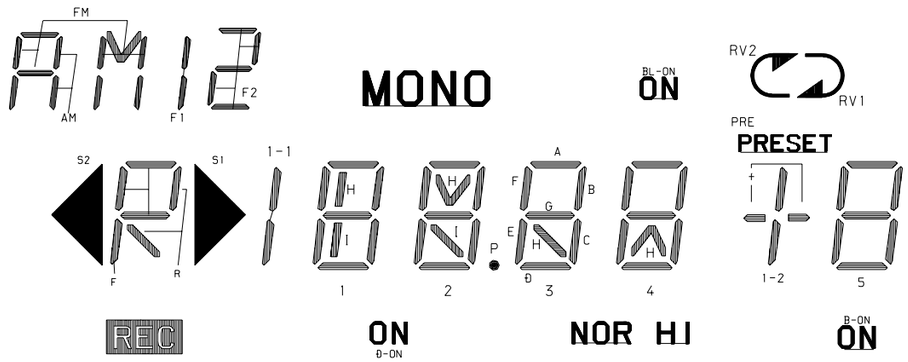

HN1C03FU
RN2907
RN4605
RN4610
UMB3
RN4607

UMH3
UMH9
IMH3
IMX1 HQQ
UPA608T



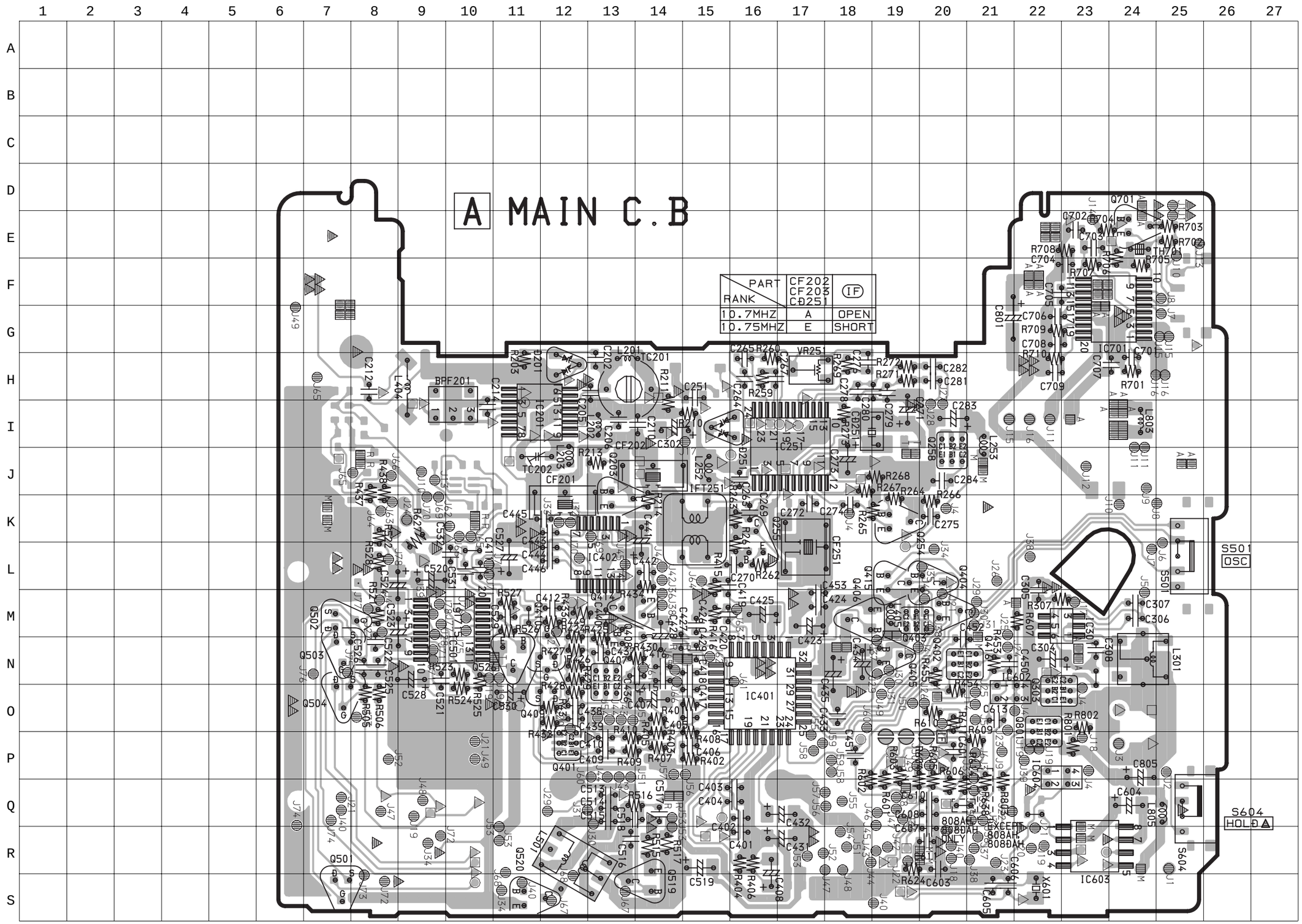

2SK881

## LCD DIAGRAM

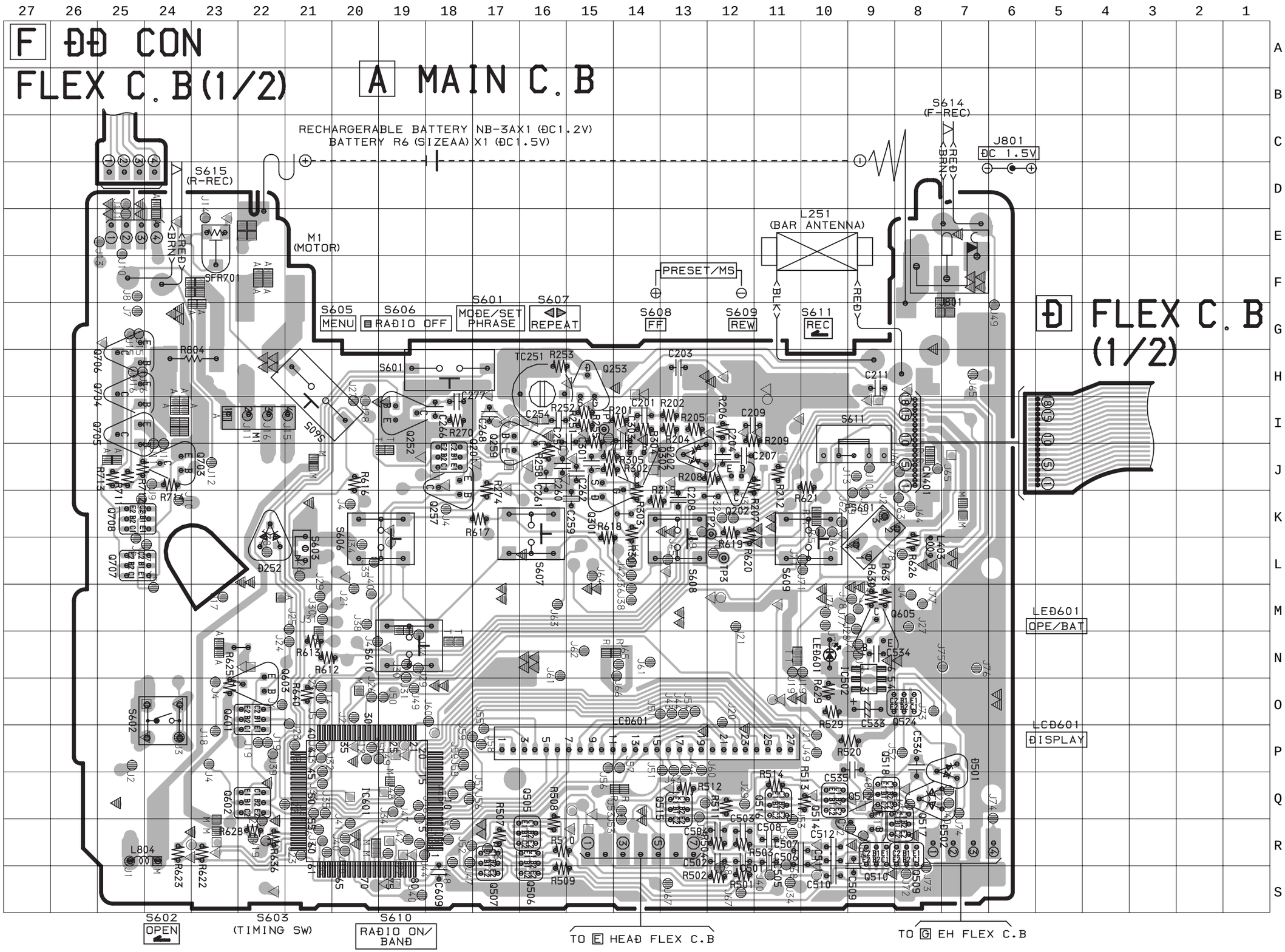



| NO | COM1 | COM2 | COM3 | COM4 |
|---|---|---|---|---|
| 1 | 2Đ | 2I | 2G | NOR |
| 2 | P | 2C | 2B | HI |
| 3 | 3Đ | 3H | —— | —— |
| 4 | 3C | 3G | 3A | + |
| 5 | B-ON | 4E | 4F | 5E |
| 6 | 4Đ | 4H | 4G | 4A |
| 7 | —— | 4C | 4B | 5Đ |
| 8 | —— | —— | COM3 | —— |
| 9 | —— | COM2 | —— | —— |
| 10 | COM1 | —— | —— | —— |
| 11 | 5A | 5B | 5C | 5G |
| 12 | —— | 3B | 1-2 | 5F |
| 13 | —— | 3E | 3F | PRE |
| 14 | —— | —— | —— | COM4 |
| 15 | —— | —— | COM3 | —— |
| 16 | —— | COM2 | —— | —— |
| 17 | COM1 | —— | —— | —— |
| 18 | MONO | BL-ON | RV2 | RV1 |
| 19 | —— | COM2 | —— | —— |
| 20 | —— | —— | COM3 | —— |
| 21 | —— | —— | —— | COM4 |
| 22 | 1-1 | 1E | 1F | 1A |
| 23 | F | R | AM | F2 |
| 24 | S2 | S1 | FM | F1 |
| 25 | 1Đ | 1I | 1G | 1H |
| 26 | REC | 1C | 1B | 2A |
| 27 | Đ-ON | 2E | 2F | 2H |

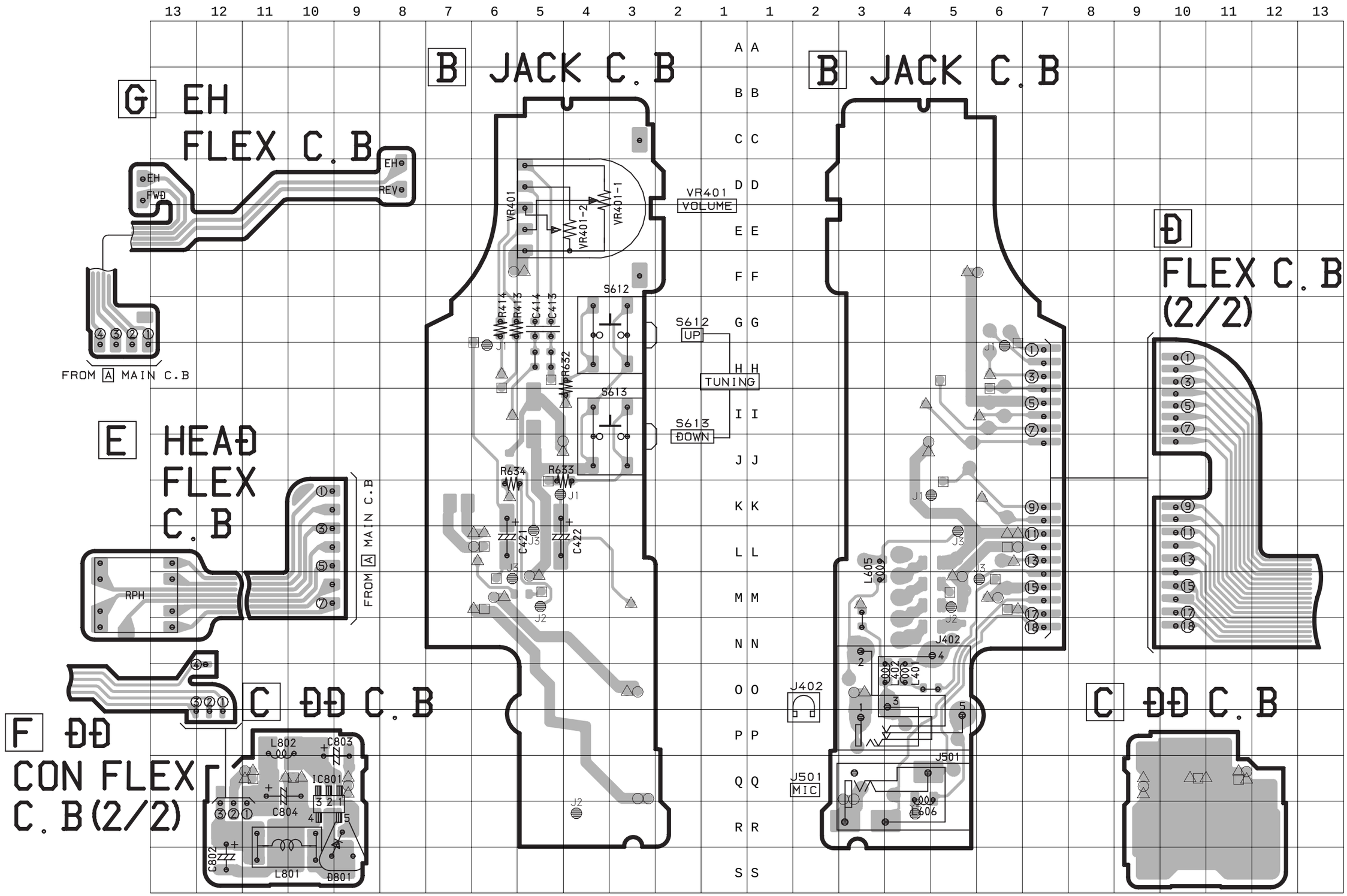
WIRING – 1 (MAIN: 1/2)



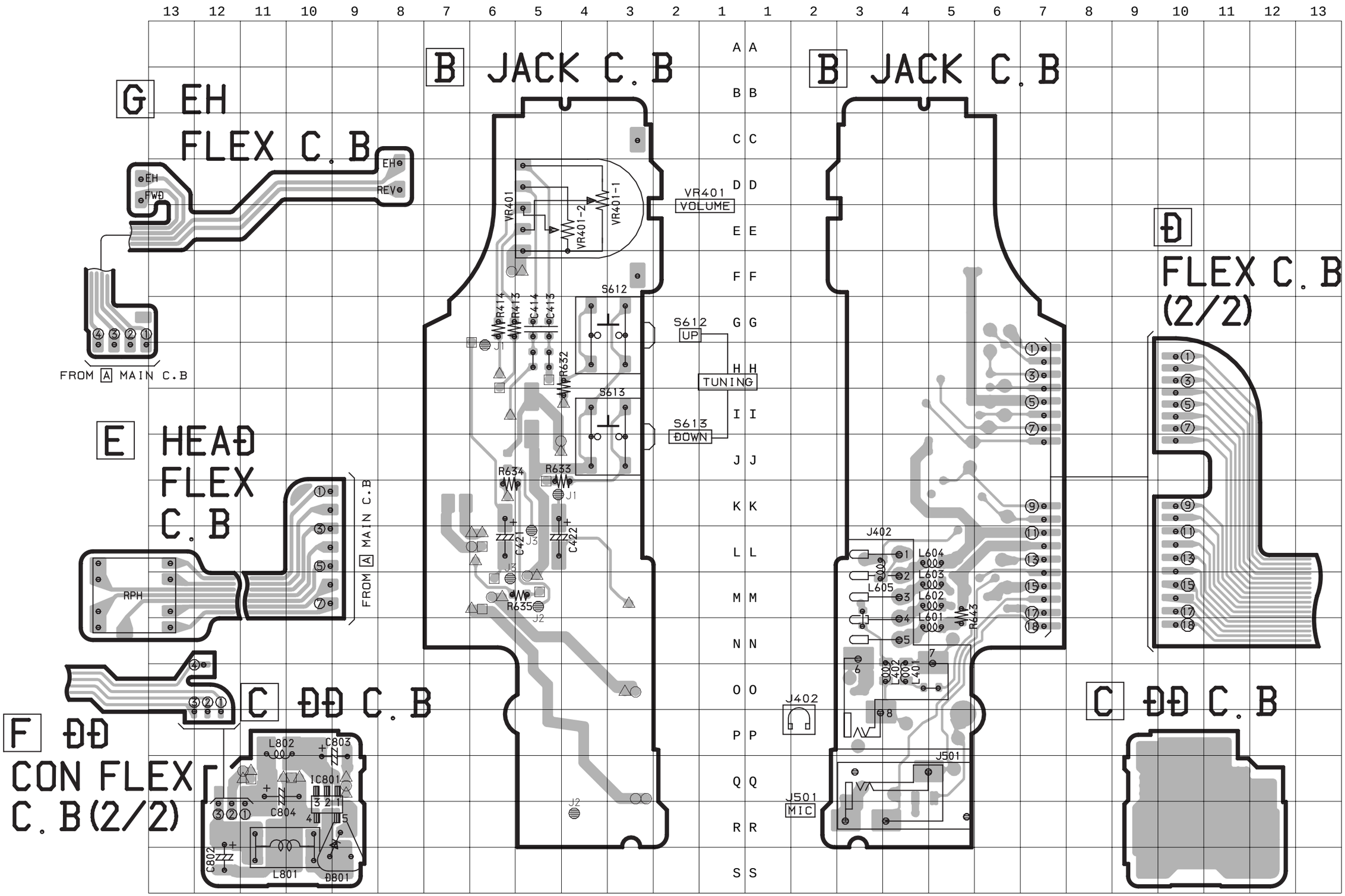

THIS WIRING DIAGRAM SHOWS A 4 LAYER BOARD. THE ▲ MARK SHOWS THE CONNECTIONS BETWEEN THE USUAL DOUBLE FACE PATTERNS AND THE PATTERNS ON THE INTERNAL LAYERS THAT CANNOT BE SEEN.
THE PATTERN WITH ▲ MARK ARE CONNECTED TO GND PATTERNS.
THE PATTERN WITH ● J1∽J78 MARK ARE CONNECTED TO JUMPER PATTERNS.
THE PATTERN WITH ■ MARK ARE CONNECTED TO VCC PATTERNS.
THE PATTERN WITH ■A MARK ARE CONNECTED TO AU/TU DD-VCC PATTERNS.
THE PATTERN WITH ■M MARK ARE CONNECTED TO MCOM-VDD PATTERNS.
THE PATTERN WITH ■T MARK ARE CONNECTED TO TU-VCC PATTERNS.
THE PATTERN WITH ■R MARK ARE CONNECTED TO VREF PATTERNS.


F ĐĐ CON
FLEX C.B(1/2)
A MAIN C.B
RECHARGERABLE BATTERY NB-3AX1 (ĐC1.2V)
BATTERY R6 (SIZEAA) X1 (ĐC1.5V)
S614
(F-REC)
J801
ĐC 1.5V
S615
(R-REC)
M1
(MOTOR)
L251
(BAR ANTENNA)
PRESET/MS
S605
MENU
S606
RAĐIO OFF
S601
MOĐE/SET
PHRASE
S607
REPEAT
S608
FF
S609
REW
S611
REC
Đ FLEX C.B
(1/2)
LEĐ601
OPE/BAT
LCĐ601
ĐISPLAY
S602
OPEN
S603
(TIMING SW)
S610
RAĐIO ON/
BANĐ
TO E HEAĐ FLEX C.B
TO G EH FLEX C.B

WIRING – 2 (JACK / DD / FLEX) <HS-JX807 / 807D>

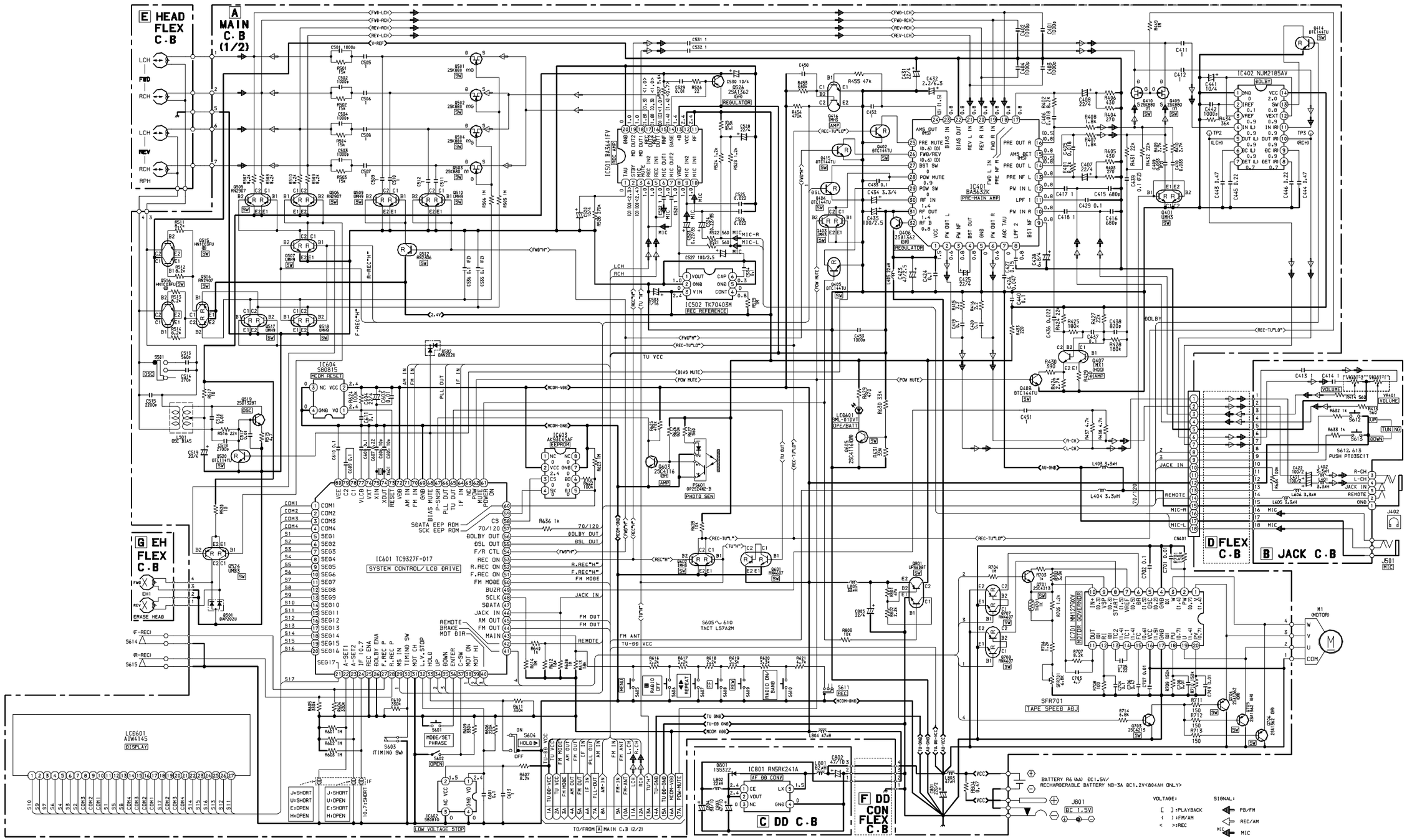



THIS WIRING DIAGRAM SHOWS A 4 LAYERS BOARD.
THE J1 3 MARKS SHOWS THE CONNECTIONS BETWEEN
THE USUAL DOUBLE FACE PATTERNS AND THE PATTERNS
ON THE INTERNAL LAYERS THAT CANNOT BE SEEN.
THE PATTERN WITH J1 3 ARE CONNECTED TO JUMPER PATTERNS.

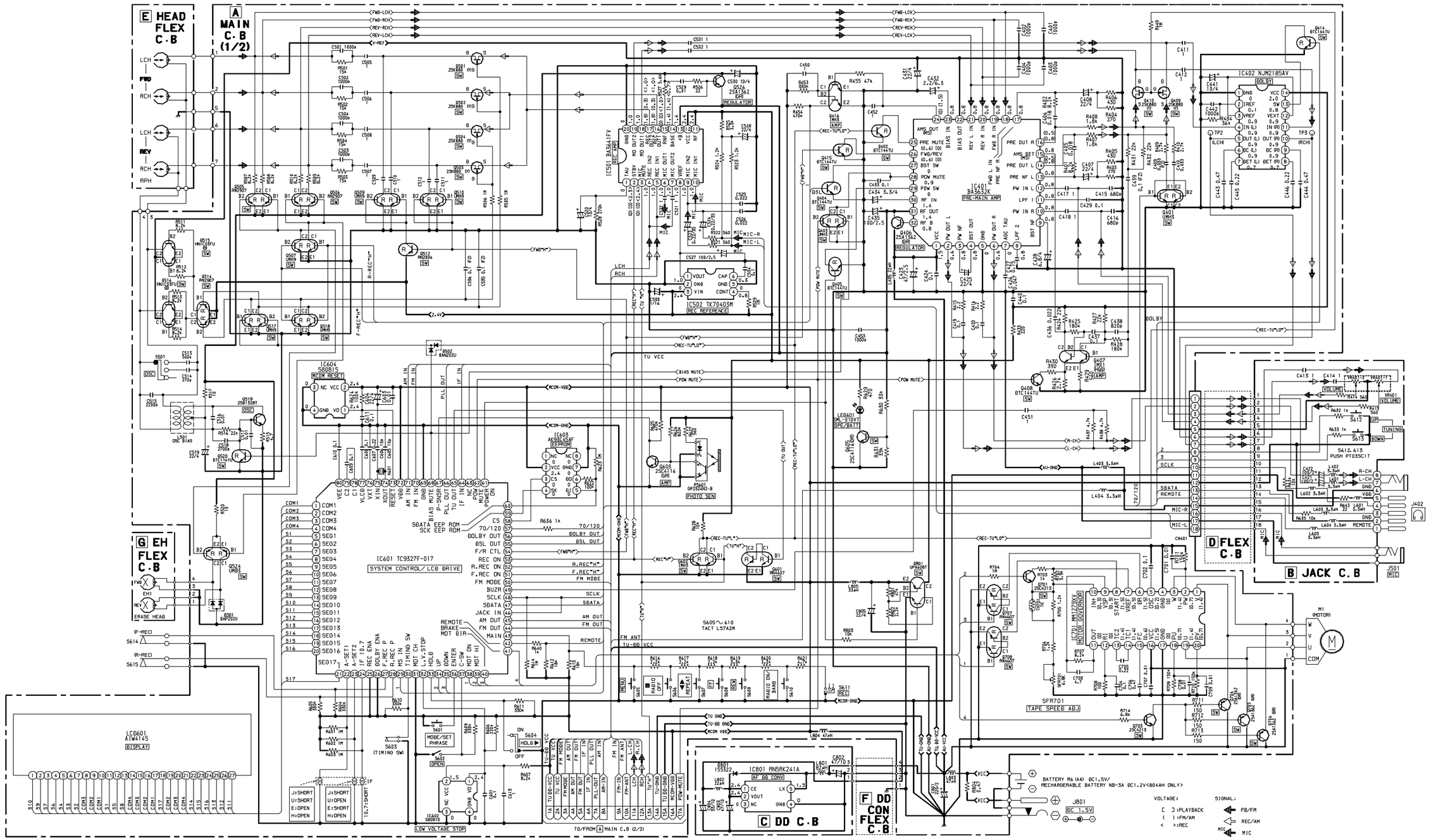


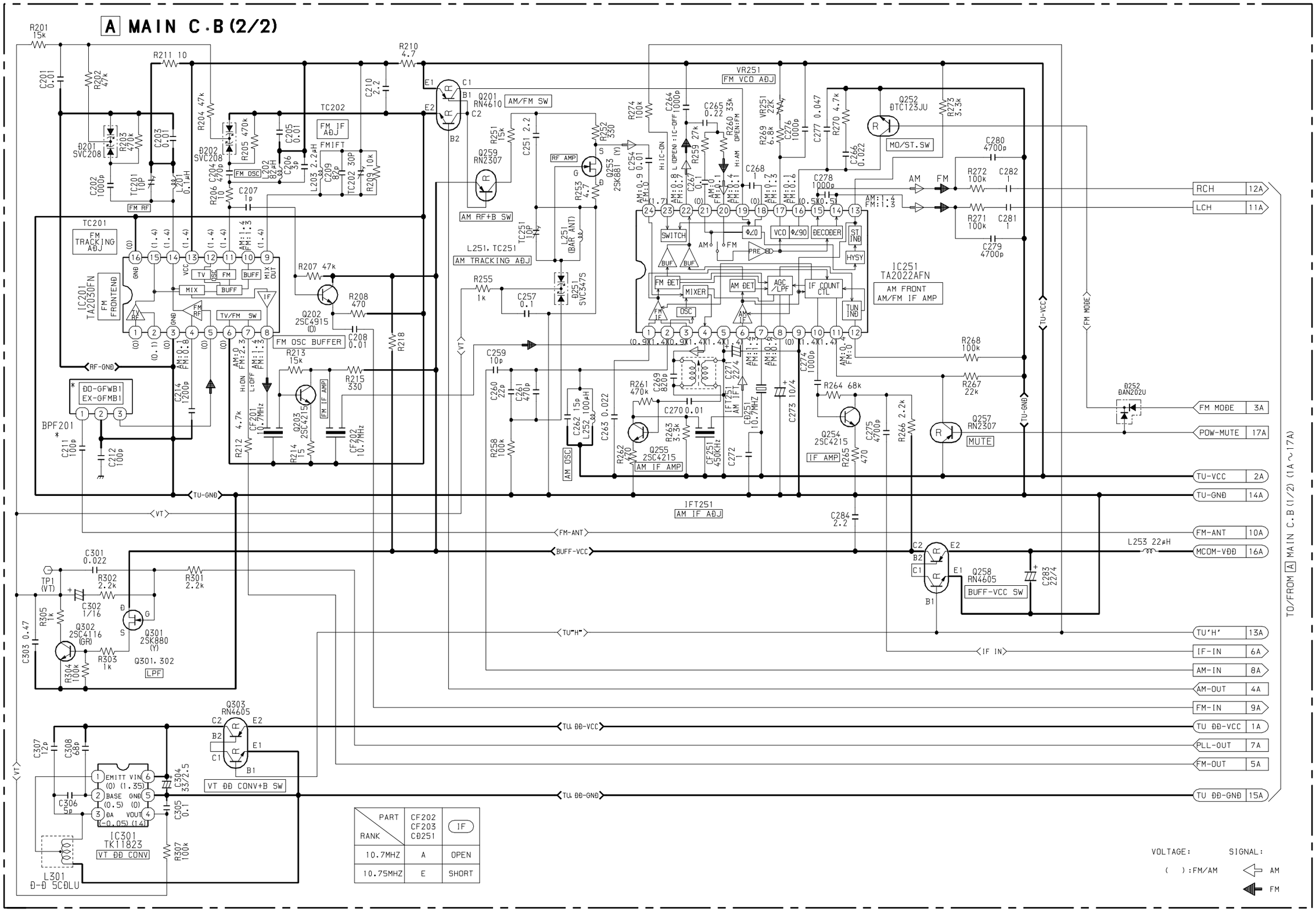

THIS WIRING DIAGRAM SHOWS A 4 LAYERS BOARD.
THE J1 3 MARKS SHOWS THE CONNECTIONS BETWEEN
THE USUAL DOUBLE FACE PATTERNS AND THE PATTERNS
ON THE INTERNAL LAYERS THAT CANNOT BE SEEN.
THE PATTERN WITH J1 3 ARE CONNECTED TO JUMPER PATTERNS.

SCHEMATIC DIAGRAM – 1 (MAIN:1/2 / JACK / DD / FLEX) <HS-JX807 / 807D>



SCHEMATIC DIAGRAM – 2 (MAIN:1/2 / JACK / DD / FLEX) <HS-JX808 / 808D>

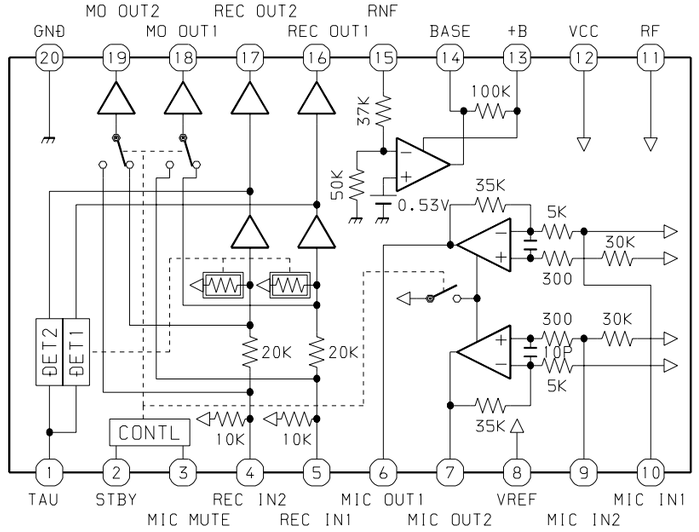




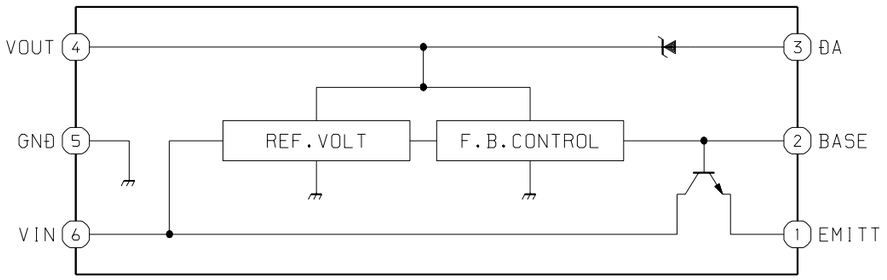

| PART / RANK | CF202 CF203 CĐ251 | IF |
|---|---|---|
| 10.7MHZ | A | OPEN |
| 10.75MHZ | E | SHORT |

# IC BLOCK DIAGRAM

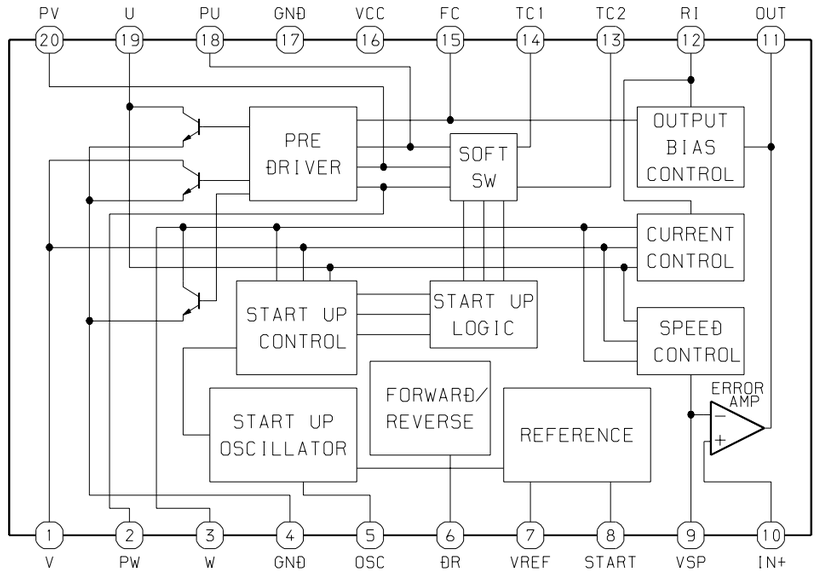
## IC, BA3641FV




## IC, TK11823

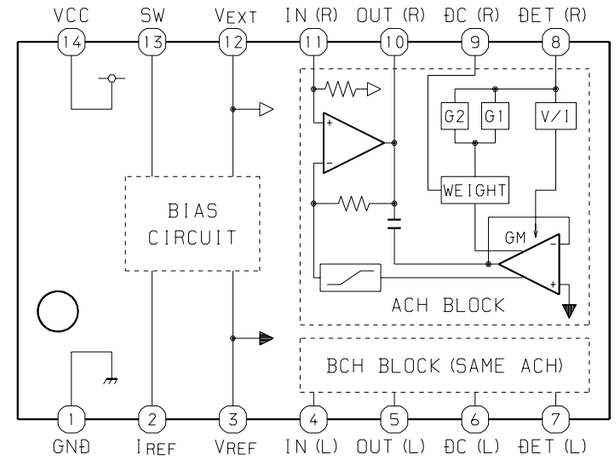



## IC, NJM2185V

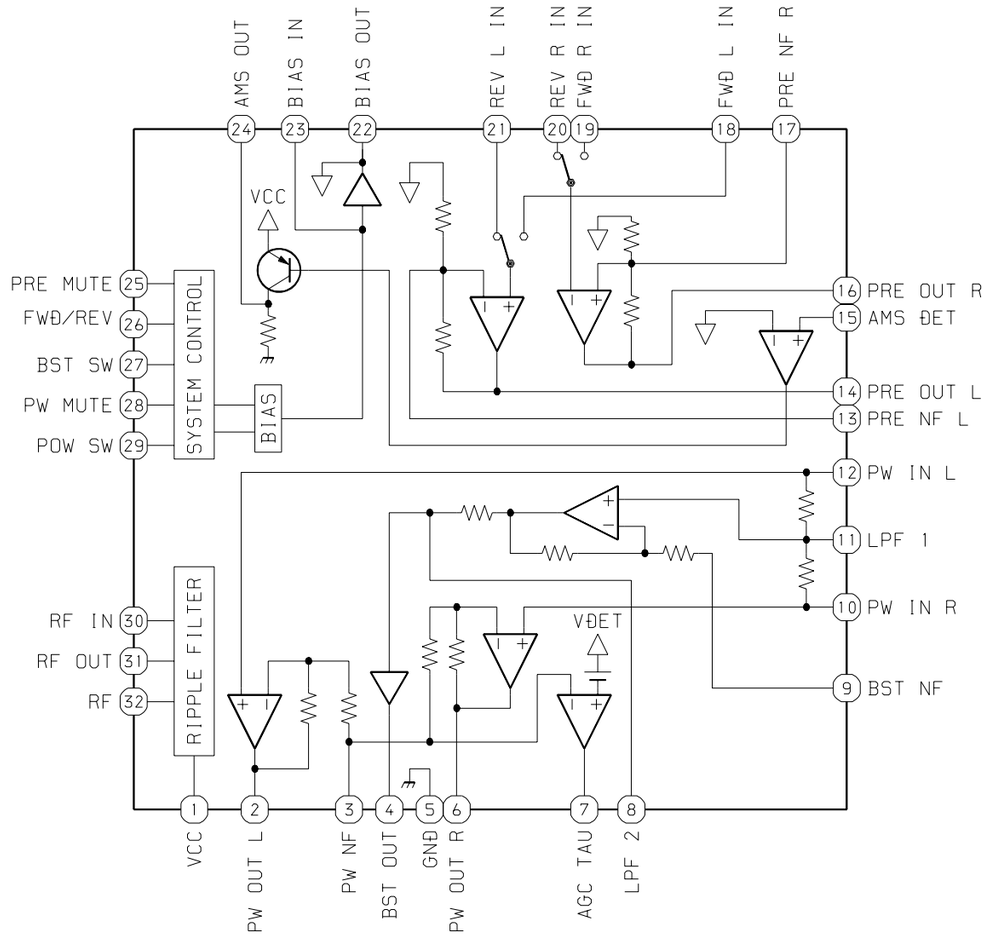





## IC, MM1279XV




## IC, BA3632K



## IC DESCRIPTION

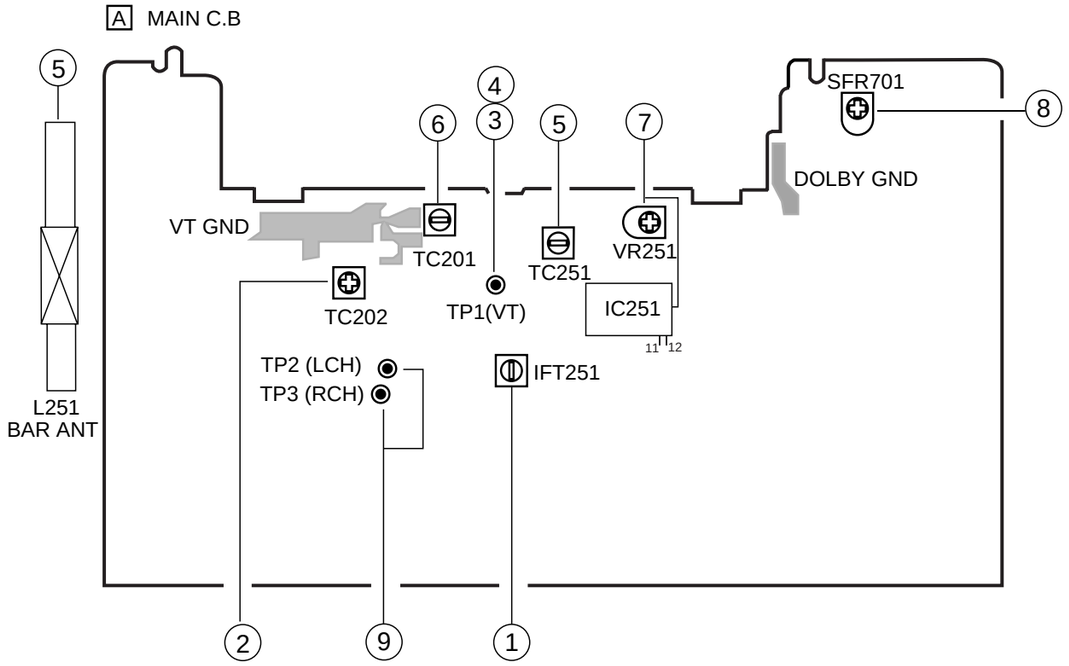
IC, TC9327F-017

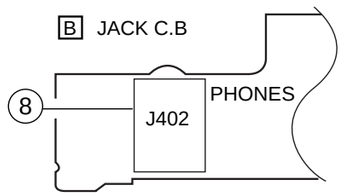
| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 ~ 4 | COM1~COM4 | O | LCD common output 1~4. |
| 5 ~ 21 | SEG1 ~ SEG17 | O | LCD segment output 1~17. |
| 22,23 | A-SET1,2 | I | Input pin for switching J , U , E , H areas.<br>A-SET1: J area L, U area L, E area H, H area H<br>A-SET2: J area L, U area H, E area L, H area H |
| 24 | IF 10.7 | I | "H": IF 10.75 MHz. "L": 10.7 MHz. |
| 25 | REC ENA | I | Input pin for REC enable. "H": REC enable. "L": REC disable. |
| 26 | DOLBY ENA | I | Input pin for DOLBY enable. "H": DOLBY enable. "L": DOLBY disable. |
| 27 | F. REC P | I | "H": FWD REC shift disable. "L": enable. |
| 28 | R. REC P | I | "H": REV REC shift disable. "L": enable. |
| 29 | MS IN | I | Pin to input music sensor signal. "H": music exist. "L": blank. |
| 30 | TIMING SW | I | Pin to input for mechanism operation detection. |
| 31 | MOT CH | I | Pin to input for motor activation detection. |
| 32 | L.V. STOP | I | Stop mechanism operation and hold key input when low voltage is detected. |
| 33 | HOLD | I | "H": Hold OFF. "L": Hold ON. |
| 34 | UP | I | Up key input pin. "H": Key ON. "L": Key OFF. |
| 35 | DOWN | I | Down key input pin. "H": Key ON. "L": Key OFF. |
| 36 | ENTER | I | Enter key input pin. "H": Key ON. "L": Key OFF. |
| 37 | C-SW | I | Input pin for detecting the presence of cassette. "H": C-SW OFF. "L": C-SW ON. |
| 38 | MOT ON | O | Pin to output motor control. "H": Motor ON. "L": Motor OFF. |
| 39 | MOT HI | O | Pin to control motor. "H": Motor high speed. "L": Motor normal speed. |
| 40 | MOT DIR | O | Pin to output for motor rotation direction. "H": Clockwise. "L": Counter Clockwise. |
| 41 | BRAKE | O | Pin to output brake control for motor. "H": Brake ON. "L": Brake OFF. |
| 42 | REMOTE | I | Remote control key input pin. |
| 43 | MAIN | I | Main unit key input pin. |
| 44 | FM OUT | O | Pin to output for FM mode. "H": FM mode. "L" except FM mode. |
| 45 | AM OUT | O | Pin to output for AM mode. "H": AM(MW) mode. "L" except AM(MW) mode. |
| 46 | JACK IN | I | This is a pin where HP plug input is detected. "H": no plug. "L" plug exist. |
| 47 | SDATA | O | Pin to output data for remote controller display. |
| 48 | SCLK | I | Pin to input serial clock. |
| 49 | BUZR | O | Output buzzer. |
| 50 | FM MODE | O | Pin to output FM MONO/ST switching. |
| 51 | F. REC ON | O | "H": FWD REC mode. "L": Other mode. |
| 52 | R.REC ON | O | "H": REV REC mode. "L": Other mode. |
| 53 | REC ON | O | "H": REC mode. "L": Other mode. |
| 54 | F/R CTL | O | Output pin for tape run direction. "H": FWD direction. "L": REV direction. |
| 55 | DSL OUT | O | Pin to output DSL ON/OFF control. |



| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 56 | DOLBY OUT | O | DOLBY ON/OFF control output pin. |
| 57 | 70/120 | O | Pin to output normal tape and metal tape switching. |
| 58 | CS | O | Pin to control READ,WRITE of EEPROM. |
| 59 | SCK EEPROM | O | Pin to output serial clock of EEPROM. |
| 60 | SDATA EEPROM | I/O | Pin to input/output data of EEPROM. |
| 61 | POWER ON | O | "H": POWER ON. "L": POWER OFF. |
| 62 | POW MUTE | O | Pin to output muting. "H": MUTE ON. "L": MUTE OFF. |
| 63 | NC | – | Not connected. |
| 64 | IF IN | I | Pin to input IF signal. |
| 65 | TU OUT | O | Output "H". "H": TU mode. "L": except TU mode. |
| 66 | PLL OUT | O | Output phase comparison instrument. |
| 67 | P-SNSR | I | Pin to input photo sensor waveform output. |
| 68 | BIAS MUTE | O | Pin to output mute when REC. "H": MUTE ON. "L": MUTE OFF. |
| 69 | GND | – | GND. |
| 70 | FM IN | I | Input FM programmable counter. |
| 71 | AM IN | I | Input AM programmable counter. |
| 72 | VDD | – | Pin to apply voltage. |
| 73 | $\overline{\text{RESET}}$ | I | Pin to input system reset signal. |
| 74 | XOUT | O | Crystal oscillation pin. |
| 75 | XIN | I | Crystal oscillation pin. |
| 76 | VXT | – | Power supply pin for crystal oscillation. |
| 77 | VLCD | – | Reference voltage pin for LCD drive. |
| 78 | C1 | – | Reference voltage pin for LCD drive. |
| 79 | C2 | – | Reference voltage pin for LCD drive. |
| 80 | VEE | – | 1.5V constant voltage power supply pin for LCD drive. |

# ADJUSTMENT




## <TUNER SECTION>

1. AM IF Adjustment
   IFT251 ..... 450kHz

2. FM IF Adjustment
   TC202 ..... 10.7MHz

3. AM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to AM 531kHz<AH>, 530kHz<AU> and check that the test point voltage is 1.3V ± 0.3V. Then set to AM 1602kHz<AH>, 1710kHz<AU> and check that the test point voltage is within 6.7 ~ 8.2V<AH>, 6.5 ~ 8.0V<AU>.

4. FM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to FM 87.5MHz and check that the test point voltage is 3.6V ± 0.4V. Then set to FM 108.0MHz<AH>, 108.1MHz<AU> and check that the test point voltage is within 6.8 ~ 9.0V.

5. AM Tracking Adjustment
   L251 ..... 630kHz
   TC251 ..... 1440kHz

6. FM Tracking Adjustment
   TC201 ..... 87.5MHz

7. FM VCO Adjustment
   Settings : • Adjustment location : VR251
   Method : Connect a frequency counter to pin 11 and 12 of IC251, adjust VR251 for VCO to 19kHz ± 100Hz.

## <TAPE PLAYER SECTION>

8. Tape Speed Adjustment
   Settings : • Test tape : TTA–100
   • Test point : PHONES JACK (J402)
   • Volume : MAX.
   • Adjustment location : SFR701
   Method : Play back the test tape and adjust SFR701 for 3015Hz ± 10Hz(FWD) and 3015Hz ± 45Hz (REV).

9. Dolby Level Check
   Settings : • Test tape : TTA-200
   • Test point : TP2(Lch), TP3(Rch)
   • Volume : MIN.
   • DOLBY SW : OFF
   Method : Connect an electrolytic capacitor (10uF/16V) to measured instrument and test point, check the voltage for 31.6mV ± 1dB.



# PRACTICAL SERVICE FIGURE

## <TUNER SECTION>

<FM SECTION>

| | |
|---|---|
| Sensitivity : | |
| (IHF, THD 3%) | Less than 17dB |
| | [at 87.5 / 98.5 / 108.0MHz] |
| Distortion : | Less than 3% (at input 54dB) |
| | Less than 5% (at input 110dB) |
| | [at 98.5MHz] |
| Stereo separation : | More than 16dB |
| | [at 98.5MHz] |
| Auto stop level : | 20dB ± 6dB |
| | [at 98.5MHz] |
| Intermediate frequency : | 10.7 / 10.75MHz ± 0.05MHz |

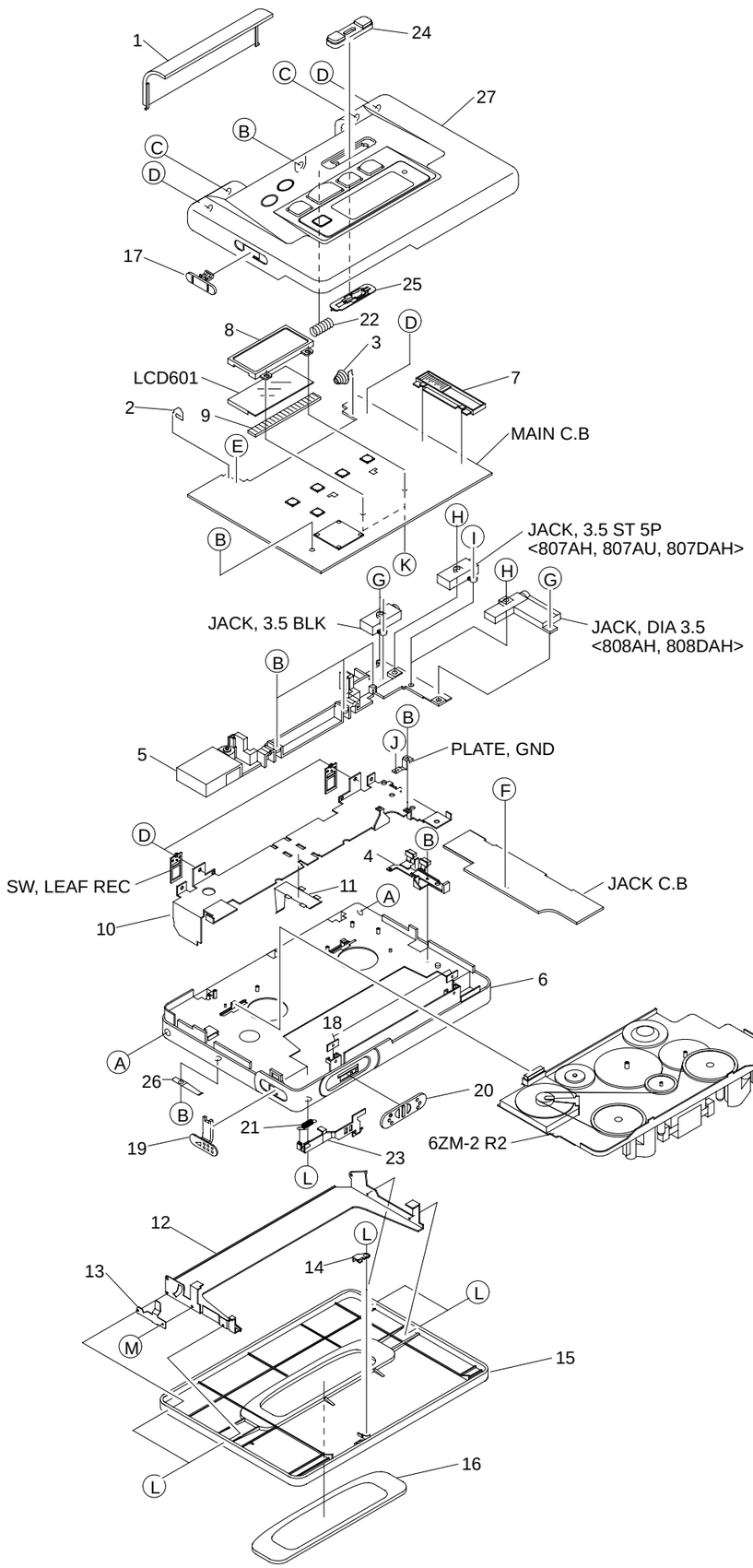
<AM SECTION>

| | |
|---|---|
| Sensitivity : | |
| (S/N 10dB) | Less than 58dB |
| | [at 630kHz] |
| | Less than 56dB |
| | [at 999 / 1440kHz]<AH> |
| | [at 1000 / 1440kHz]<AU> |
| S/N ratio : | More than 26dB |
| (Input 74dB) | [at 630kHz] |
| | More than 27dB |
| | [at 999 / 1440kHz]<AH> |
| | [at 1000 / 1440kHz]<AU> |
| Distortion : | Less than 5% (at input 74dB) |
| | Less than 10% (at input 120dB) |
| | [at 999 / 1440kHz]<AH> |
| | [at 1000 / 1440kHz]<AU> |
| Auto stop level : | 60dB ± 7dB |
| | [at 999 / 1440kHz]<AH> |
| | [at 1000 / 1440kHz]<AU> |
| Intermediate frequency : | 450kHz ± 3kHz |

## <TAPE SECTION>

| | |
|---|---|
| Tape speed : | 3015Hz ± 50Hz |
| Wow & flutter : | Less than 0.52% (RMS) |
| Take-up torque : | 20 ~ 30g-cm (FWD, REV) |
| F.F torque : | 70 ~ 150g-cm |
| Rew torque : | 70 ~ 150g-cm |
| Back tension : | 1.0 ~ 3.0g-cm (FWD, REV) |
| S/N ratio : | More than 43dB (PB, DC) |
| | More than 20dB (REC/PB, DC) |
| Distortion : | Less than 3.0% (PB, DC) |
| | Less than 7.0% (REC/PB, DC) |
| Noise level : | Less than 3.0mV (PB, DC, MAX.) |
| | Less than 0.3mV (PB, DC, MIN.) |
| Erasing Ratio: | More than 45dB |
| Dolby level : | 31.6mV ± 1dB |
| Dolby NR effect : | More than 8.5dB (B-TYPE) |
| Frequency response : | 63Hz +2/–6dB ~ 8kHz ± 4dB (NORMAL, PB) |
| | 63Hz +2/–6dB ~ 10kHz ± 4dB (CRO2, PB) |
| | 125Hz –4/–12dB ~ 8kHz +3/–12dB (REC/PB) |
| Test tape : | MTT–15070 |
| | TTA–100 |
| | TTA–200 |
| | TTA–210 |
| | TTA–320(NORMAL) |
| | TTA–310(CRO2) |
| | TTA–601 |
| | TTA–610 |

# MECHANICAL EXPLODED VIEW 1/1

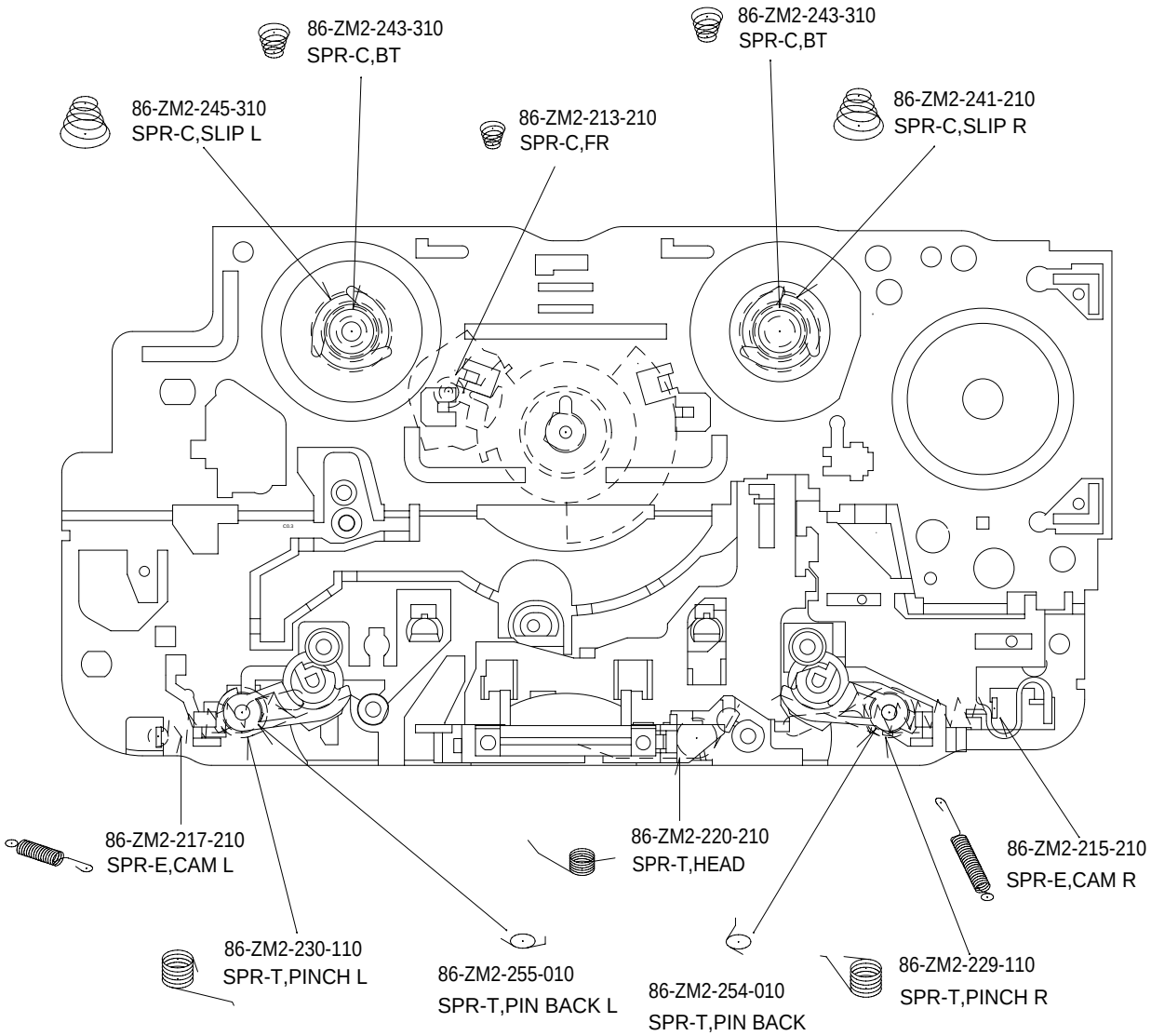




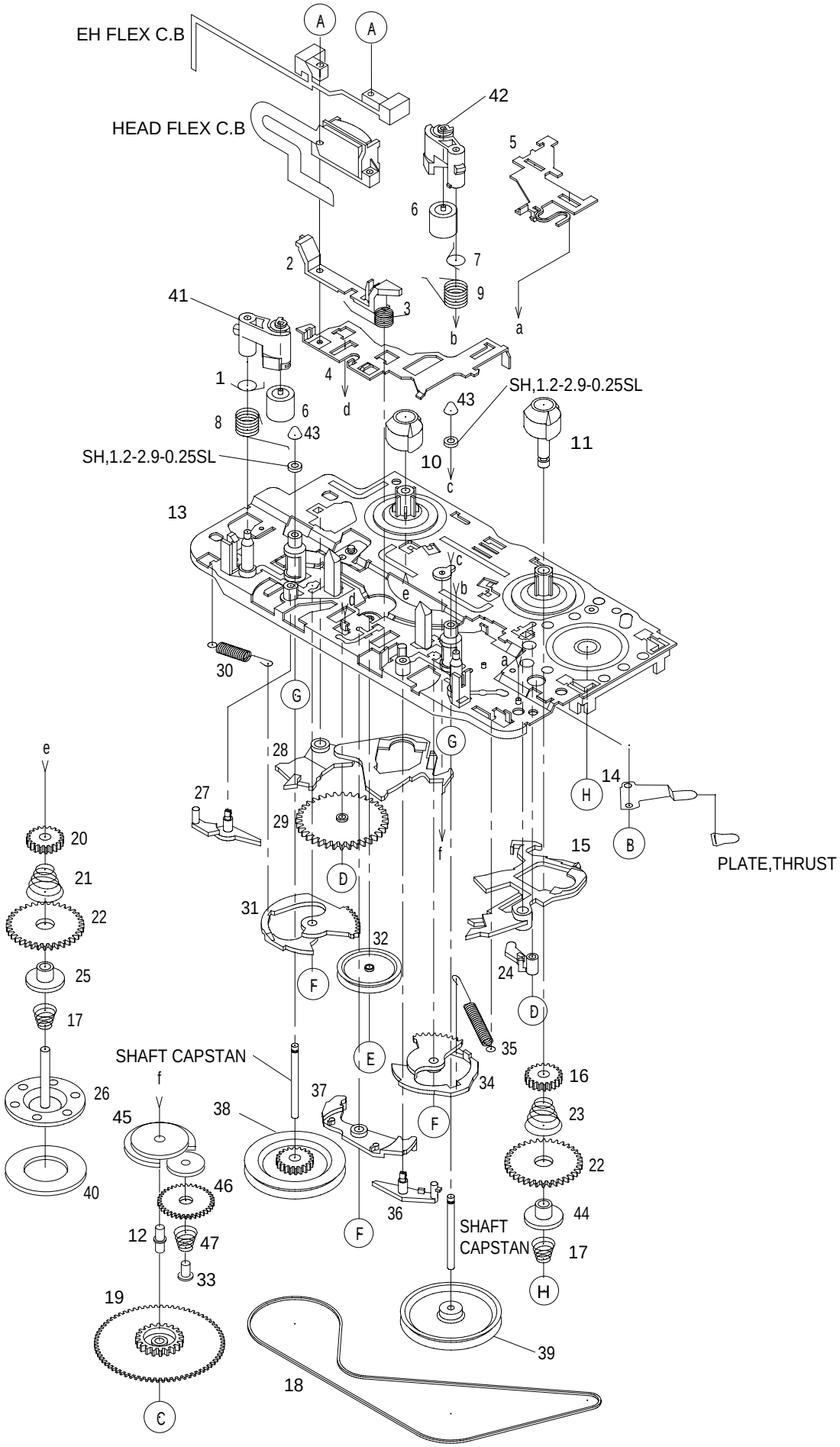

# MECHANICAL PARTS LIST 1 /

| REF. NO. | PART NO. | KANRI NO. | DESCRIPTION |
|---|---|---|---|
| 1 | 88-HJ3-006-010 | | LID,BAT |
| 2 | 88-HJ3-211-010 | | TERMINAL,BAT+ |
| 3 | 88-HJ3-212-010 | | TERMINAL,BAT- |
| 4 | 88-HJ3-015-010 | | KEY,TUNING |
| 5 | 88-HJ3-210-010 | | HLDR,BAT |
| 6 | 88-HJ3-004-010 | | FRAME,CENTER<808AH,808DAH> |
| 6 | 88-HJ3-020-010 | | FRAME,CENTER LOW<807AH,807AU,807DAH> |
| 7 | 88-HJ3-204-010 | | HLDR,ANTENNA |
| 8 | 88-HR4-201-010 | | HLDR,LCD |
| 9 | 88-HR4-202-010 | | CONN,RUBBER LCD |
| 10 | 88-HJ3-206-010 | | PLATE,HINGE |
| 11 | 88-HJ3-205-010 | | SPR-P,CASS |
| 12 | 88-HJ3-202-010 | | HLDR,CASS |
| 13 | 88-HJ3-203-010 | | SPR-P,CLICK |
| 14 | 88-HJ3-201-010 | | STOPPER,CASS |
| 15 | 88-HJ3-002-010 | | LID,CASS S<808AH,808DAH> |
| 15 | 88-HJ3-021-010 | | LID,CASS S JX807<807AH,807AU,807DAH> |
| 16 | 88-HJ3-007-010 | | WINDOW,CASS |
| 17 | 88-HJ3-010-010 | | KNOB,SL SIDE |
| 18 | 88-HJ3-208-010 | | NUT,FRONT |
| 19 | 88-HJ3-009-010 | | KNOB,SL HOLD |
| 20 | 88-HJ3-008-010 | | KNOB,SL OPEN |
| 21 | 87-HR5-225-010 | | SPR-E,EJECT N |
| 22 | 82-HK3-206-110 | | C-SP,LOCK |
| 23 | 88-HJ3-207-010 | | PLATE,LOCK |
| 24 | 88-HJ3-011-010 | | KNOB,SL REC |
| 25 | 87-HR6-219-010 | | SPR-P,POP UP |
| 26 | 87-HR6-219-010 | | SPR-P,POP UP |
| 27 | 09-028-360-010 | | CABI,REAR ASSY<808AH,808DAH> |
| 27 | 09-028-359-010 | | CABI,REAR ASSY<807AH,807AU,807DAH> |
| A | 88-HJ3-220-010 | | S-SCREW,+1.4-0.7-1 CR NL |
| B | 87-067-384-010 | | SCREWVT1.4-3.5HL |
| C | 86-HK4-224-010 | | S-SCREW,SERR+1.4-3.5 CR L |
| D | 87-078-153-010 | | SCRW,1.4-2.5 CR |
| E | 87-067-534-010 | | SCREW,VT-1.4-6 |
| F | 87-078-113-010 | | S-SCRW,+1.4-3.5 HL(B |
| G | 87-078-185-010 | | SCRW-SR,1.4-4.5 BL |
| H | 87-262-512-310 | | V+1.4-5.5 |
| I | 87-078-218-010 | | SCRW-SERR,M1.4-5.3<807AH,807AU,807DAH> |
| J | 88-HK5-228-010 | | S-SCREW,+1.4-2 CR |
| K | 88-HR4-222-010 | | S-SCREW,+1.4-1.6 CR (0.2) |
| L | 86-HJ3-222-010 | | S-SCREW,SERR+1.4-2 CR L |
| M | 87-078-216-010 | | SCRW-SR,1.4-1.4B LS |
| N | 88-HJ3-219-010 | | S-SCREW,+1.4-2.5 B HL(0.3) |
| O | 87-HK5-235-010 | | S-SCREW,1.4-0.6-2.5 |

# SPRING APPLICATION POSITION



# TAPE MECHANISM EXPLODED VIEW 1/1



# TAPE MECHANISM PARTS LIST 1/1

| REF.NO. | PART NO. | KANRI NO. | DESCRIPTION |
|---|---|---|---|
| 1 | 86-ZM2-255-010 | | SPR-T,PIN BACK L |
| 2 | 86-ZM2-286-210 | | GUIDE,TAPE REC |
| 3 | 86-ZM2-220-210 | | SPR-T,HEAD |
| 4 | 86-ZM2-285-110 | | LEVER,HEAD REC |
| 5 | 86-ZM2-247-210 | | LEVER,MS |
| 6 | 86-ZM2-226-110 | | ROLLER ASSY,PINCH |
| 7 | 86-ZM2-254-010 | | SPR-T,PIN BACK |
| 8 | 86-ZM2-230-110 | | SPR-T,PINCH L |
| 9 | 86-ZM2-229-110 | | SPR-T,PINCH R |
| 10 | 86-ZM2-240-110 | | CAP,REEL |
| 11 | 86-ZM2-234-110 | | SHAFT,REEL R |
| 12 | 86-ZM2-251-210 | | SHAFT,GEAR B |
| 13 | 86-ZM2-308-310 | | CHAS ASSY,OUT-SERT R |
| 14 | 86-ZS2-312-010 | | SPR-P,6A-MOT |
| 15 | 86-ZM2-232-210 | | LEVER,REEL R |
| 16 | 86-ZM2-258-610 | | GEAR,REW |
| 17 | 86-ZM2-243-310 | | SPR-C,BT |
| 18 | 86-ZM2-329-110 | | BELT,P5 |
| 19 | 86-ZM2-209-110 | | GEAR,B |
| 20 | 86-ZM2-238-610 | | GEAR,FF |
| 21 | 86-ZM2-245-310 | | SPR-C,SLIP L |
| 22 | 86-ZM2-237-010 | | GEAR,PLAY |
| 23 | 86-ZM2-241-210 | | SPR-C,SLIP R |
| 24 | 86-ZM2-272-010 | | LEVER,SW P 8.4 |
| 25 | 86-ZM2-236-210 | | CAP,SLIP |
| 26 | 86-ZM2-235-210 | | SHAFT,REEL L |
| 27 | 86-ZM2-223-210 | | LEVER,PIN UP L |
| 28 | 86-ZM2-233-310 | | LEVER,REEL L |
| 29 | 86-ZM2-208-210 | | GEAR,A |
| 30 | 86-ZM2-217-210 | | SPR-E,CAM L |
| 31 | 86-ZM2-216-410 | | LEVER,CAM L |
| 32 | 86-ZM2-276-010 | | PULLEY,COUPLER |
| 33 | 86-ZM2-212-210 | | SHAFT,FR |
| 34 | 86-ZM2-214-410 | | LEVER,CAM R |
| 35 | 86-ZM2-215-210 | | SPR-E,CAM R |
| 36 | 86-ZM2-222-210 | | LEVER,PIN UP R |
| 37 | 86-ZM2-218-110 | | LEVER,HEAD UP |
| 38 | 86-ZM2-205-410 | | FLY-WHL,L |
| 39 | 86-ZM2-330-010 | | FLY-WHL,R2 |
| 40 | 86-ZM2-282-010 | | SH,AUTO 2 |
| 41 | 86-ZM2-225-310 | | ARM,PINCH L |
| 42 | 86-ZM2-224-210 | | ARM,PINCH R |
| 43 | 86-ZM2-283-010 | | CAP,SHAFT |
| 44 | 86-ZM2-275-110 | | CAP,SLIP R |
| 45 | 86-ZM2-210-610 | | LEVER,FR |
| 46 | 86-ZM2-211-210 | | GEAR,FR |
| 47 | 86-ZM2-213-210 | | SPR-C,FR |
| A | 86-ZM2-296-110 | | S-SCREW,+1.4-8.45 |
| B | 87-067-430-010 | | VT1.4-5 BLK |
| C | 87-067-516-010 | | PW,3-1.58-0.25,SLIT |
| D | 87-067-860-010 | | PW,3-0.95-0.4 |
| E | 86-ZM2-277-010 | | W-P,0.8-3-0.2 SLT |
| F | 86-ZM2-319-010 | | W-L,0.95-3-0.35 |
| G | 86-ZM2-313-010 | | W-P,1.76-4-0.13 |
| H | 86-ZM2-278-010 | | W-P,1.36-4-0.2 SLT |

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