

# Service Manual

Stereo Cassette Deck

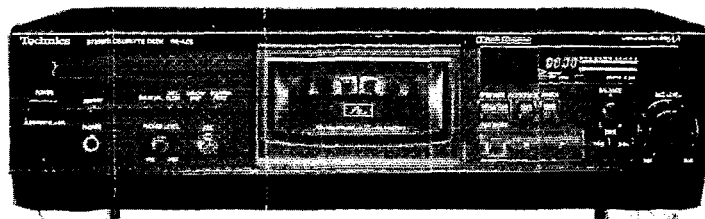
Cassette Deck

## RS-AZ6

\*  
 DOLBY B·C NR HX PRO

Colour

(K)...Black Type



Please file and use this manual together with the service manual for Model No. RS-AZ7, Order No. AD9601017C2.

**Note:** • This service manual is provided to indicate the main differences between the original model No. RS-AZ7 (E) and the subsequent model No. RS-AZ6 (E, EB, EG).

Area

| Suffix for Model No. | Area               | Colour |
|----------------------|--------------------|--------|
| (E)                  | Europe.            | (K)    |
| (EB)                 | Great Britain.     |        |
| (EG)                 | Germany and Italy. |        |

\* Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Band and Olufsen. "Dolby", the double-D symbol and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

## CHANGES

### SPECIFICATIONS

RS-AZ7 (E)

RS-AZ6 (E, EB, EG)

|                   |       |
|-------------------|-------|
| <b>General</b>    |       |
| Power consumption | 26W   |
| Weight            | 4.2kg |



|                   |       |
|-------------------|-------|
| <b>General</b>    |       |
| Power consumption | 25W   |
| Weight            | 3.9kg |

### CHANGE IN REPLACEMENT PARTS LIST (RS-AZ7 Service Manual of pages 56~60.)

- Notes:** • Mentioned in this parts list is only those different from Model No. RS-AZ7 (E). All other parts are the same as for RS-AZ7 (E).  
 • Important safety notice:  
 Components identified by  $\Delta$  mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.  
 When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.  
 • The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.) Parts without these indications can be used for all areas.

| Ref. No.              | Change of Part No. |                      | Part Name & Description | Remarks  |
|-----------------------|--------------------|----------------------|-------------------------|----------|
|                       | RS-AZ7 (E)         | ➡ RS-AZ6 (E, EB, EG) |                         |          |
| INTEGRATED CIRCUIT(S) |                    |                      |                         |          |
| IC4                   | AN6558SFE2         | —                    | BUFFER AMP              | Deletion |
| TRANSISTOR(S)         |                    |                      |                         |          |
| Q101—104              | 2SK369GRTPE2       | —                    | TRANSISTOR              | Deletion |
| Q105, 106             | 2SB709QRSTX        | —                    | TRANSISTOR              | Deletion |
| Q107, 108             | 2SD601QRSTX        | —                    | TRANSISTOR              | Deletion |
| Q109                  | DTC144EKT147       | —                    | TRANSISTOR              | Deletion |

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## ⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

| Ref. No.                   | Change of Part No. |                    | Part Name & Description  | Remarks    |
|----------------------------|--------------------|--------------------|--------------------------|------------|
|                            | RS-AZ7 (E)         | RS-AZ6 (E, EB, EG) |                          |            |
| Q110                       | DTA114EKT147       | —                  | TRANSISTOR               | Deletion   |
| Q201                       | 2SD2037EFTA        | —                  | TRANSISTOR               | Deletion   |
| Q251                       | 2SK330GRYTA        | —                  | TRANSISTOR               | Deletion   |
| Q703-705                   | DTA114ESTP         | —                  | TRANSISTOR               | Deletion   |
| DIODE(S)                   |                    |                    |                          |            |
| D201                       | MA700              | —                  | DIODE                    | Deletion   |
| D202                       | MTZJ8R2CTA         | —                  | DIODE                    | ⚠ Deletion |
| D250, 251                  | MA110TX            | —                  | DIODE                    | Deletion   |
| D252                       | MA8043MTX          | MA8062MTX          | DIODE                    |            |
| IC PROTECTOR(S)            |                    |                    |                          |            |
| ICP201                     | SRUN10             | —                  | IC PROTECTOR             | ⚠ Deletion |
| LAMP(S)                    |                    |                    |                          |            |
| PL701                      | XAMR136S           | —                  | LAMP                     | Deletion   |
| SWITCH(ES)                 |                    |                    |                          |            |
| S710                       | EVQ21405R          | —                  | PLAY DIRECT              | Deletion   |
| S718                       | RSS3A18YA-H        | —                  | PLAY TIMER REC           | Deletion   |
| CONNECTOR(S) AND SOCKET(S) |                    |                    |                          |            |
| CN102                      | REX0784            | —                  | CONNECTOR ASS'Y (2P)     | Deletion   |
| CP102                      | RJP2G17ZA          | —                  | CONNECTOR (2P)           | Deletion   |
| JACK(S)                    |                    |                    |                          |            |
| JK1                        | SJF3069A           | SJF3069N           | TERMINAL BOARD: REC/PLAY |            |
| RESISTOR(S)                |                    |                    |                          |            |
| R101, 102                  | ERJ6GEYJ272V       | —                  | 1/10w 2.7kΩ              | Deletion   |
| R103, 104                  | ERJ6GEYJ102V       | —                  | 1/10w 1kΩ                | Deletion   |
| R105, 106                  | ERJ6GEYJ472V       | —                  | 1/10w 4.7kΩ              | Deletion   |
| R107, 108                  | ERJ6GEYJ272V       | —                  | 1/10w 2.7kΩ              | Deletion   |
| R127, 128                  | ERJ6GEYJ102V       | —                  | 1/10w 1kΩ                | Deletion   |
| R129, 130                  | ERJ6GEYJ223V       | —                  | 1/10w 22kΩ               | Deletion   |
| R131                       | ERJ6GEYJ102V       | —                  | 1/10w 1kΩ                | Deletion   |
| R132-138                   | ERJ6GEYJ103V       | —                  | 1/10w 10kΩ               | Deletion   |
| R139                       | ERJ6GEYJ681V       | —                  | 1/10w 680Ω               | Deletion   |
| R202                       | ERDS2TJ102         | —                  | 1/4w 1kΩ                 | Deletion   |
| R203                       | ERDS2TJ101         | —                  | 1/4w 100Ω                | Deletion   |
| R250                       | ERJ6GEYJ102V       | —                  | 1/10w 1kΩ                | Deletion   |
| R251                       | ERJ6GEYJ563V       | —                  | 1/10w 56kΩ               | Deletion   |
| R252                       | ERJ6GEYJ105        | —                  | 1/10w 1MΩ                | Deletion   |
| R253                       | ERJ6GEYJ102V       | ERJ6GEYJ331V       | 1/10w 330Ω               |            |
| R471, 472                  | ERDAS3G102T        | —                  | 1/4w 1kΩ                 | Deletion   |
| R473, 474                  | ERDAS3G152T        | —                  | 1/4w 1.5kΩ               | Deletion   |
| R481, 482                  | ERDAS3G103T        | —                  | 1/4w 10kΩ                | Deletion   |
| R507                       | —                  | ERDS2TJ223         | 1/4w 22kΩ                | Addition   |
| R523, 524                  | —                  | ERDS2TJ103         | 1/4w 10kΩ                | Addition   |

| Ref. No.           | Change of Part No. |                    | Part Name & Description | Remarks  |
|--------------------|--------------------|--------------------|-------------------------|----------|
|                    | RS-AZ7 (E)         | RS-AZ6 (E, EB, EG) |                         |          |
| R719               | ERDS2TJ682T        | —                  | 1/4w 6.8kΩ              | Deletion |
| R725               | ERDS2TJ222         | —                  | 1/4w 2.2kΩ              | Deletion |
| R726               | ERDS2TJ332         | —                  | 1/4w 3.3kΩ              | Deletion |
| R727               | ERDS2TJ472         | —                  | 1/4w 4.7kΩ              | Deletion |
| R728               | ERDS2TJ331         | —                  | 1/4w 330Ω               | Deletion |
| R729, 730          | ERDS2TJ181T        | —                  | 1/4w 180Ω               | Deletion |
| CHIP JUMPER(S)     |                    |                    |                         |          |
| RJ 14              | ERJ6GEY0R00V       | —                  | CHIP JUMPER             | Deletion |
| RJ 17              | ERJ6GEY0R00V       | —                  | CHIP JUMPER             | Deletion |
| RJ 20-22           | ERJ6GEY0R00V       | —                  | CHIP JUMPER             | Deletion |
| RJ 27, 28          | ERJ6GEY0R00V       | —                  | CHIP JUMPER             | Deletion |
| RJ 30, 31          | ERJ6GEY0R00V       | —                  | CHIP JUMPER             | Deletion |
| RJ 33-37           | ERJ6GEY0R00V       | —                  | CHIP JUMPER             | Deletion |
| RJ 39              | ERJ6GEY0R00V       | —                  | CHIP JUMPER             | Deletion |
| CAPACITOR(S)       |                    |                    |                         |          |
| C101, 102          | ECUV1E183KBN       | —                  | 25V 0.018μF             | Deletion |
| C117               | RCE0JKS101IV       | —                  | 6.3V 100μF              | Deletion |
| C201               | ECBT1E103ZF        | —                  | 25V 0.01μF              | Deletion |
| C256               | —                  | ECUV1H103ZFN       | 50V 0.01μF              | Addition |
| C473, 474          | ECBT1H471KB5       | —                  | 50V 470PF               | Deletion |
| C475, 476          | ECA1CPXS100B       | —                  | 16V 10μF                | Deletion |
| C601               | ECA1EM472E         | ECEA1EU222         | 25V 2200μF              |          |
| CABINET AND CASSIS |                    |                    |                         |          |
| 3                  | RYF0371-K          | RYF0399-K          | CASSETTE LID ASS'Y      |          |
| 5                  | RGR0230A-B         | RGR0230A-D         | REAR PANEL              | (E, EG)  |
|                    |                    | RGR0230A-E         | REAR PANEL              | (EB)     |
| 13                 | RFKGS AZ7EK        | RFKGS AZ6EK        | FRONT PANEL ASS'Y       |          |
| 15                 | RGL0307-Q          | —                  | PANEL LIGHT, HALF       | Deletion |
| 16                 | RGL0308-Q          | —                  | PANEL LIGHT, PLAY       | Deletion |
| 17                 | RGL0309-Q          | —                  | PANEL LIGHT, DIRECT     | Deletion |
| 20                 | RGU1317-K          | RGU1317A-K         | BUTTON, OPERATION       |          |
| 22                 | RGV0112-K          | —                  | KNOB, TIMER             | Deletion |
| 25                 | RHD26017           | XTBS26+8J          | SCREW                   |          |
| 26                 | RHD26018           | RHD26016           | SCREW                   |          |
| 28                 | RKQ0190-K          | —                  | CASSETTE HOLDER         | Deletion |
| 32                 | RMG0410-K          | —                  | SPACER (A)              | Deletion |
| 33                 | RMG0411-K          | —                  | SPACER (B)              | Deletion |
| 34                 | XTB3+12GFY         | XTB3+12JFZ         | SCREW                   |          |
| 35                 | XTW2+6S            | —                  | SCREW                   | Deletion |
| 41                 | —                  | RHD20034           | SCREW                   | Addition |
| MECHANISM PARTS    |                    |                    |                         |          |
| 102                | RKF0334-K          | RYF0263-K          | CASSETTE HOLDER ASS'Y   |          |
| 102-1              | —                  | RUS757ZA           | SPRING, TAPE PRESSURE   | Addition |
| 115                | RGQ0121-K          | —                  | LIFTER                  | Deletion |
| 123                | RDG0212A           | —                  | LIFT ARM                | Deletion |
| 132                | RMQ0401            | —                  | STABILIZER              | Deletion |
| 133                | RML0275A           | —                  | LIFT GEAR               | Deletion |
| 144                | RMB0324            | —                  | SPRING, STABILIZER      | Deletion |

| Ref. No.         | Change of Part No. |                      | Part Name & Description | Remarks       |
|------------------|--------------------|----------------------|-------------------------|---------------|
|                  | RS-AZ7 (E)         | ➡ RS-AZ6 (E, EB, EG) |                         |               |
| PACKING MATERIAL |                    |                      |                         |               |
| P1               | RPG2956            | RPG2958              | PACKING CASE            | (E, EG)       |
|                  |                    | RPG2959              | PACKING CASE            | (EB)          |
| P2               | RPN0956            | RPN0979              | CUSHION                 | (EB)          |
| P6               | —                  | RPH0032              | MIRROR SHEET            | (EB) Addition |
| ACCESSORIES      |                    |                      |                         |               |
| A1               | RFKSSAZ7EK         | RQT3434-B            | INSTRUCTION MANUAL      | (EB)          |
|                  |                    | RQT3433-D            | INSTRUCTION MANUAL      | (EG)          |
| A4               | RJA0019-2K         | RJA0049-K            | AC POWER SUPPLY CORD    | (EB) △        |

## ■ SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with the development of new technology.)

**Notes:**

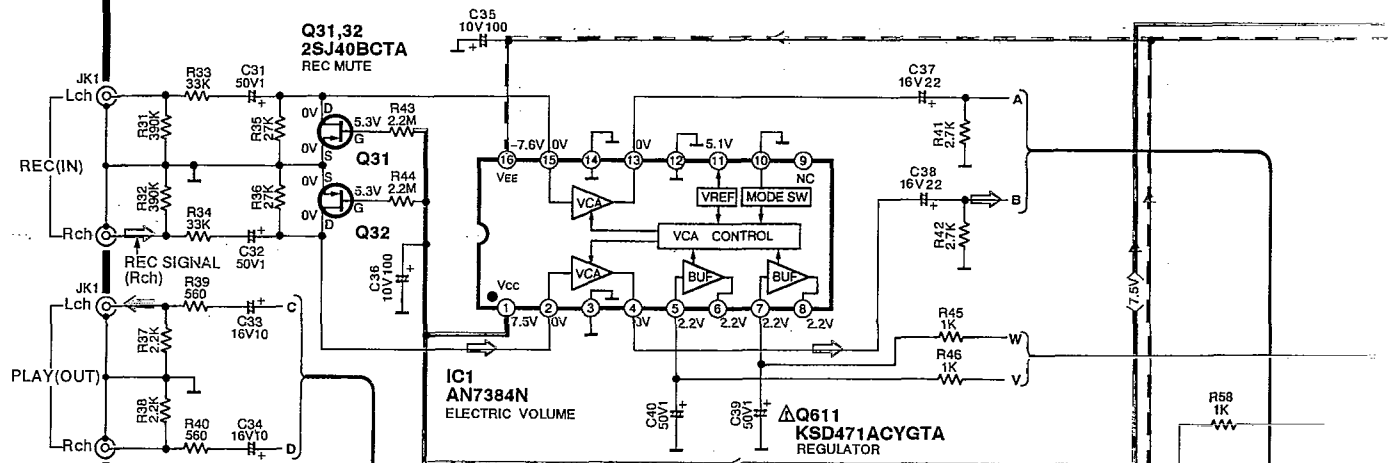
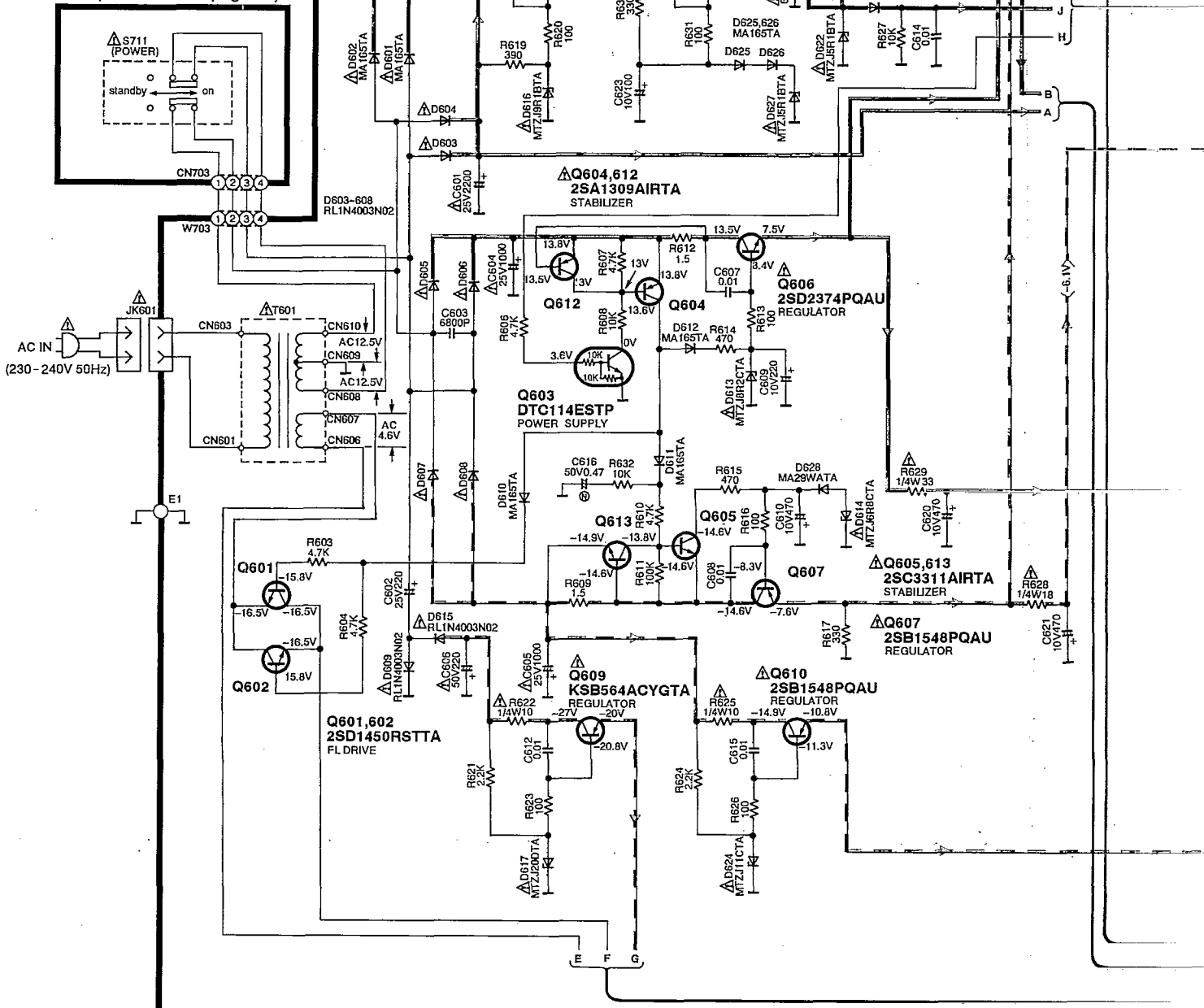
- **S701:** Stop switch (■).
  - **S702:** Playback/Record switch (▶).
  - **S704:** Fast-forward search switch (▶▶ TPS).
  - **S705:** Rewind search switch (◀◀ TPS).
  - **S706:** Recording/Pause switch (REC PAUSE).
  - **S707:** Automatic-record-muting switch (● AUTO REC MUTE).
  - **S708:** Cassette holder open/close switch (▲ OPEN/CLOSE).
  - **S709:** Monitor switch (MONITOR).
  - **S711:** Power "STANBY ⏻/ON" (POWER STANBY ⏻ ON) switch.
  - **S712:** Counter reset switch (COUNTER RESET).
  - **S713:** Memory stop switch (MEMORY STOP).
  - **S714:** Multiplex filter switch (MPX FILTER).
  - **S715:** Dolby noise-reduction switch (DOLBY NR).
  - **S716:** Auto tape calibration switch (ATC).
  - **S851:** Cassette holder open detection switch in "off" position.
  - **S852:** Cassette holder close detection switch in "off" position.
  - **S971:** Mode switch in "off" position.
  - **S972:** Half switch in "off" position.
  - **S973:** ATS (CrO<sub>2</sub>) switch in "off" position.
  - **S975:** Forward rec. inhibit switch in "off" position.
  - **S976:** ATS (Metal) switch in "off" position.
- Resistance are in ohms (Ω), 1/4 watt unless specified otherwise.  
1K=1,000 (Ω), 1M=1,000k (Ω)
- Capacity are in micro-farads (μF) unless specified otherwise.
- All voltage values shown in circuitry are under no signal condition and playback mode with volume control at minimum position otherwise specified.  
( ).....Voltage values at record mode.
- For measurement use EVM.
- Important safety notice:  
Components identified by Δ mark have special characteristics important for safety.  
When replacing any of components, be sure to use only manufacturer's specified parts.
  - ( ———— <+B> ———— ) indicates +B (bias).
  - ( - - - - <-B> - - - - ) indicates -B (bias).
  - (  ) indicates the playback signal.
  - (  ) indicates the recording signal.
  - The supply part number is described alone in the replacement parts list.

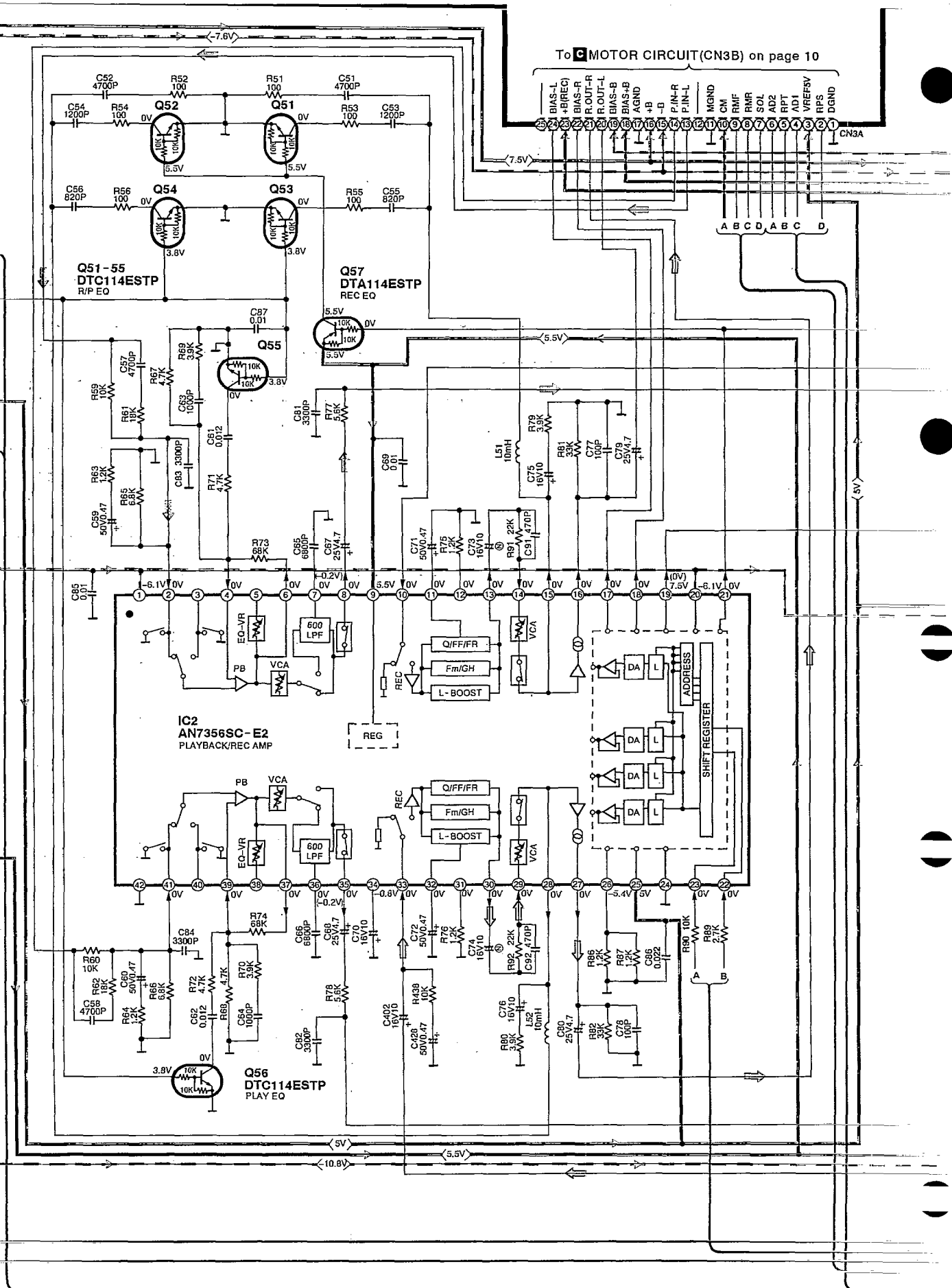
| Part No. | Production Part No. | Supply Part No. |
|----------|---------------------|-----------------|
| IC701    | M5218AL             | M5218L          |

### Caution!

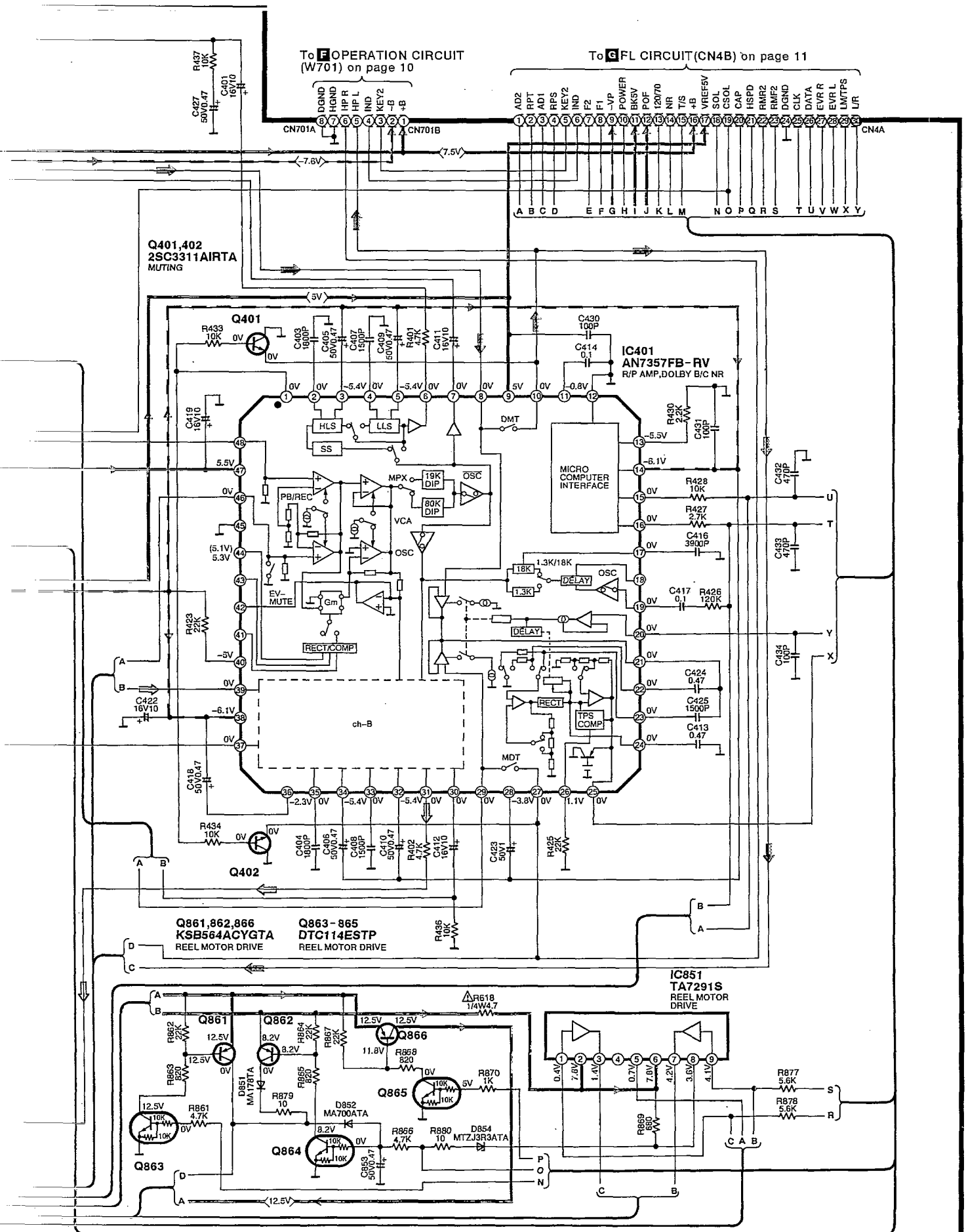
IC and LSI are sensitive to static electricity.  
Secondary trouble can be prevented by taking care during repair.

- Cover the parts boxes made of plastics with aluminum foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the pins of IC or LSI with fingers directly.

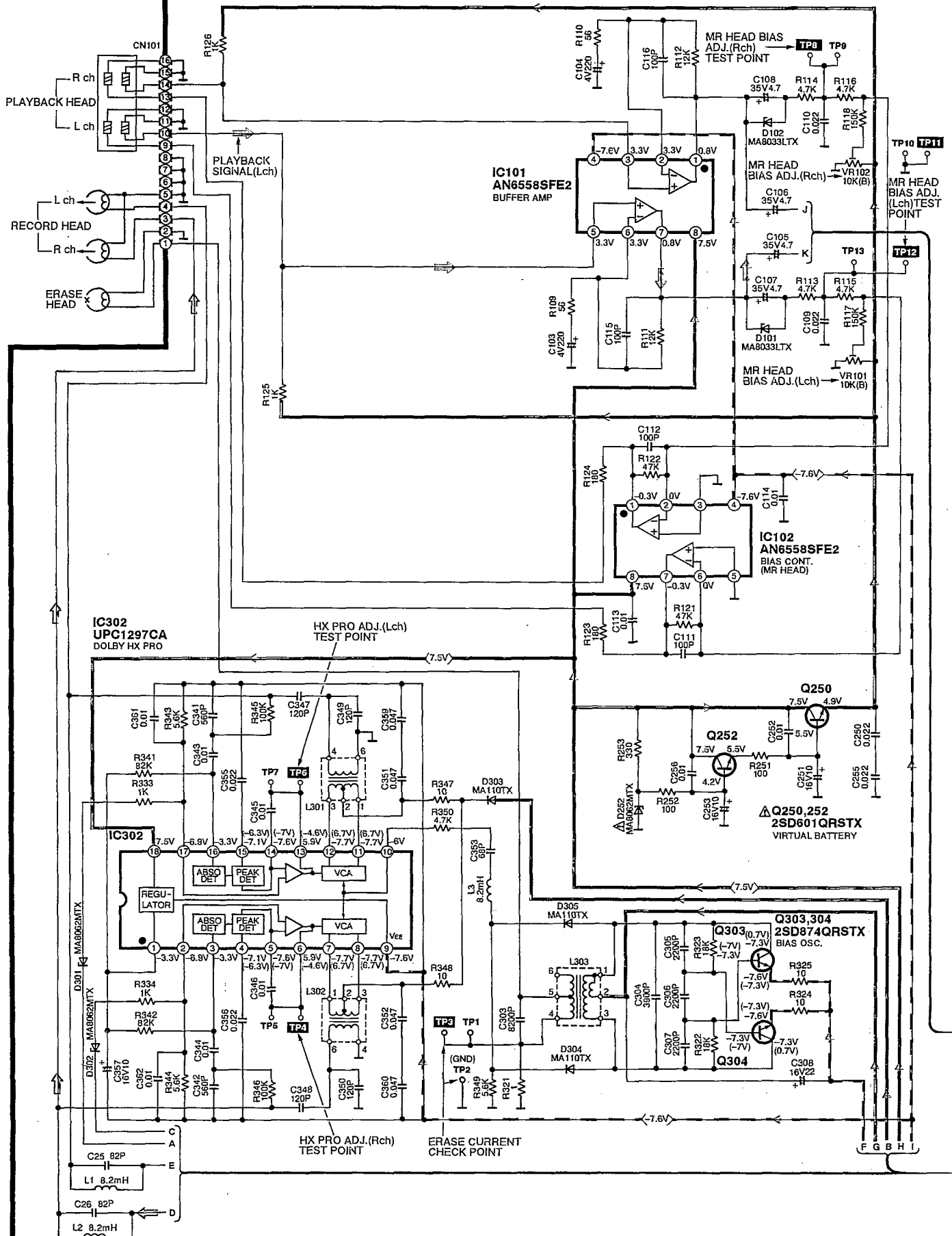
**A** MAIN CIRCUIT (P.C.Board: on page 18)**B** POWER SWITCH CIRCUIT (P.C.Board: on page 17)









**C** MOTOR CIRCUIT (P.C.Board: on page 16)


### E HEADPHONES JACK CIRCUIT (P.C.Board: on page 17)

JK701  
HEADPHONES

E701

C705  
0.01

CN701

CP701

C706  
0.1R734  
18R731  
100R732  
100R733  
18R734  
18R735  
18R736  
18R737  
18R738  
18R739  
18R740  
18R741  
18R742  
18R743  
18R744  
18R745  
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18R789  
18R790  
18R791  
18R792  
18R793  
18R794  
18R795  
18R796  
18R797  
18R798  
18R799  
18R800  
18R801  
18R802  
18R803  
18R804  
18R805  
18

### D MECHANISM CIRCUIT (P.C.Board: on page 16)

IC971,972  
RVSGP2S24BC  
PHOTO  
INTERRUPTER

IC971

IC972

R971  
220R972  
39KR973  
39KR974  
39KR975  
39KR976  
39KR977  
39KR978  
39KR979  
39KR980  
39KR981  
39KR982  
39KR983  
39KR984  
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39KR1008  
39KR1009  
39KR1010  
39KR1011  
39KR1012  
39KR1013  
39KR1014  
39KR1015  
39KR1016  
39KR1017  
39KR1018  
39KR1019  
39KR1020  
39K

Z971

S972  
(HALF)S971  
(MODE)S976  
(ATS/METAL)S973  
(ATS/CRO2)S975  
(FREC INH.)D971  
RVD1SS133TA

SOLENOID

CS971

CP851

A B C D E F G H I

A B C D E F G H I

A B C D E F G H I

A B C D E F G H I

A B C D E F G H I

A B C D E F G H I

A B C D E F G H I

A B C D E F G H I

A B C D E F G H I

A B C D E F G H I

A B C D E F G H I

A B C D E F G H I

A B C D E F G H I

A B C D E F G H I

A B C D E F G H I

A B C D E F G H I

A B C D E F G H I

A B C D E F G H I

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A B C D E F G H I

A B C D E F G H I

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A B C D E F G H I

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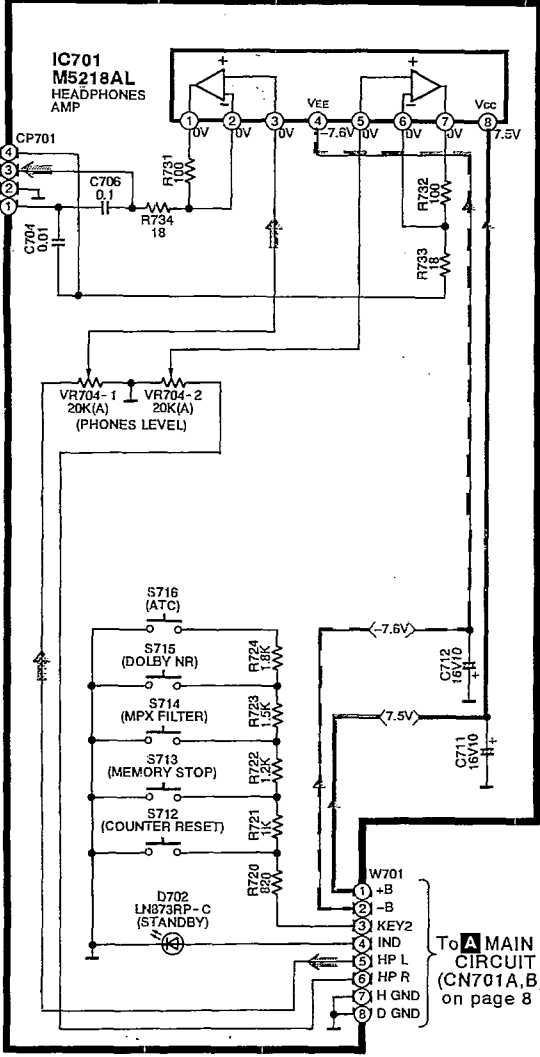
A B C D E F G H I

A B C D E F G H I

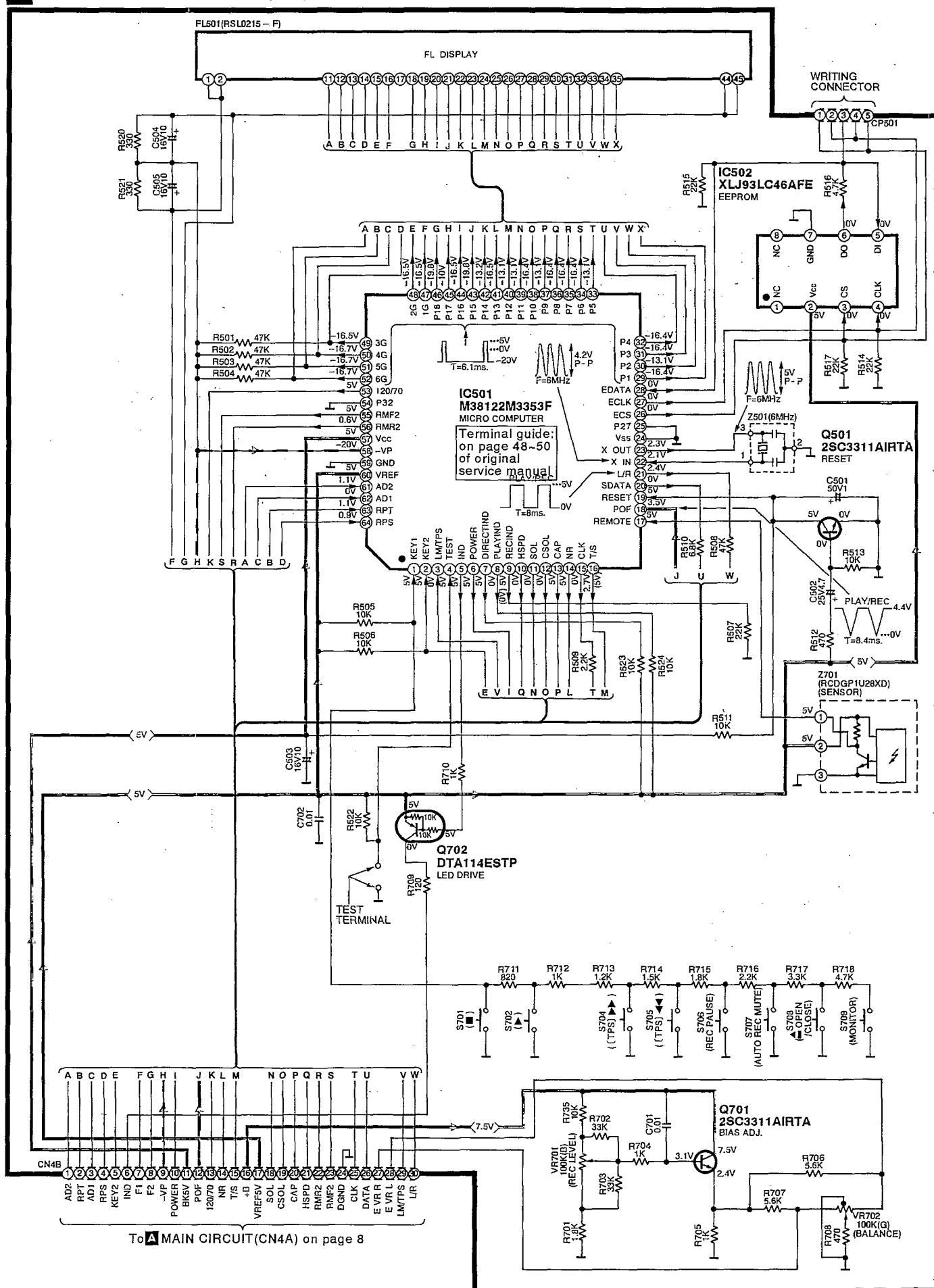
A B C D E F G H I

A B C D E F G H I

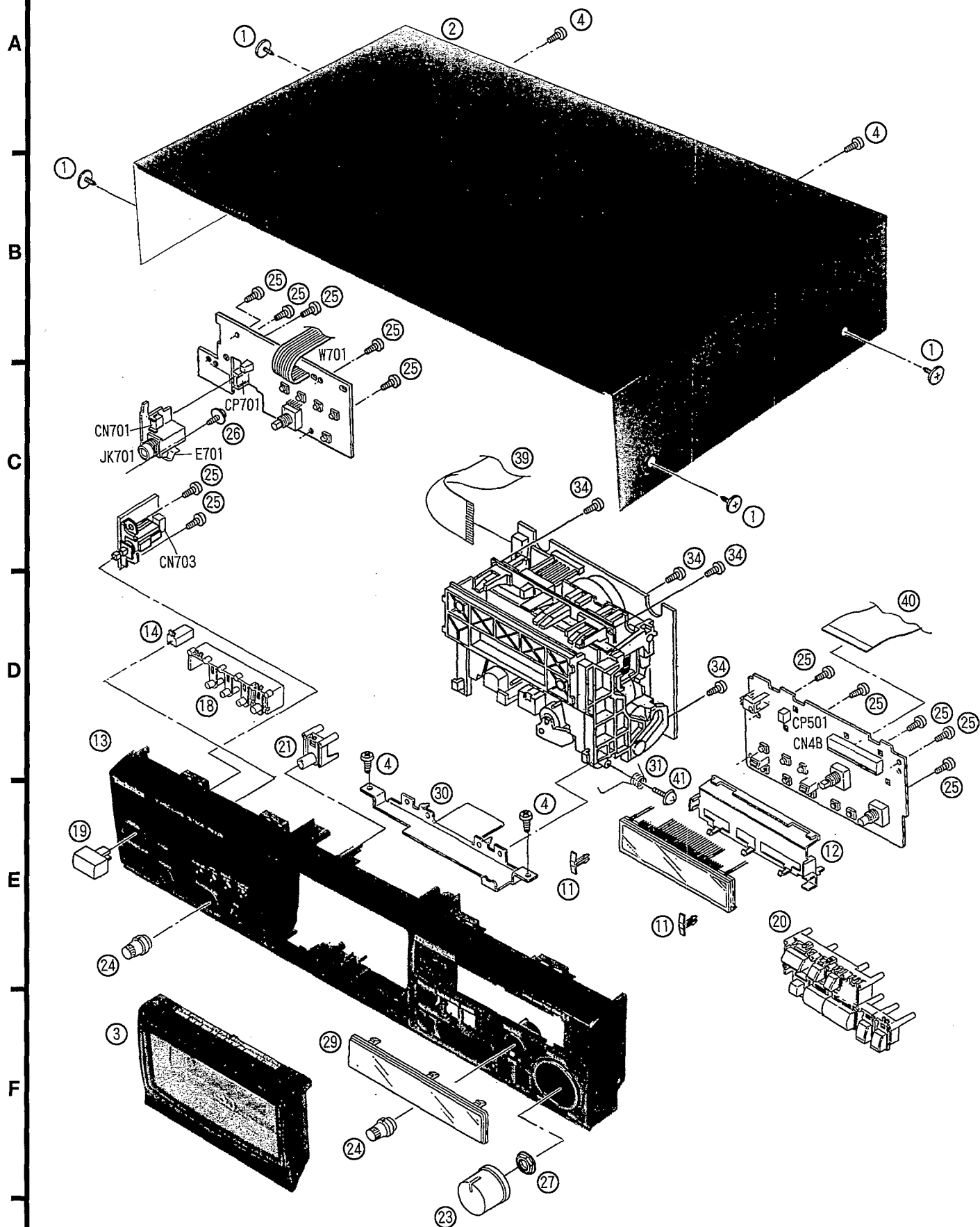
To MAIN CIRCUIT (CN3A) on page 6



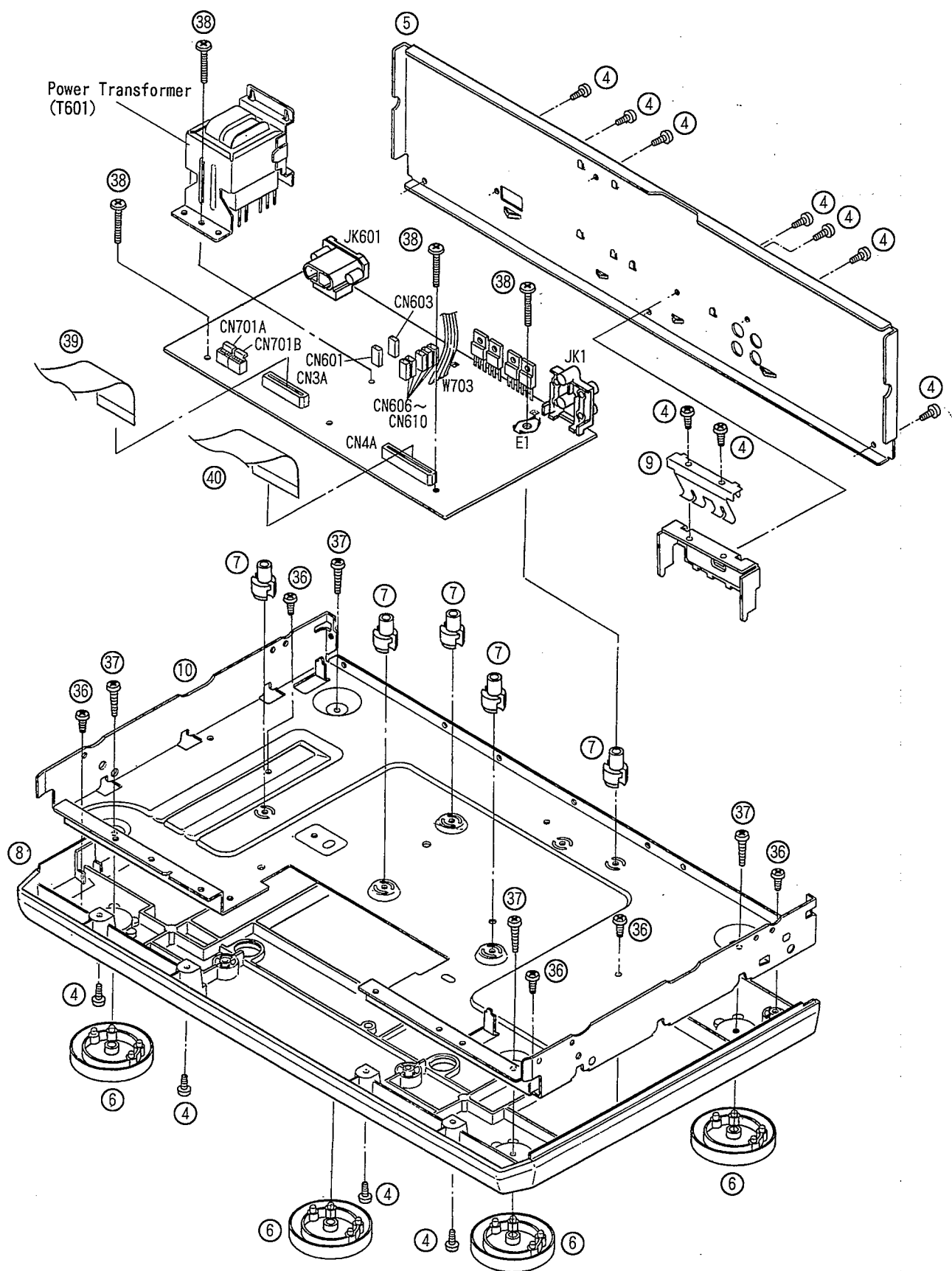
## G FL CIRCUIT (P.C.Board: on page 17)



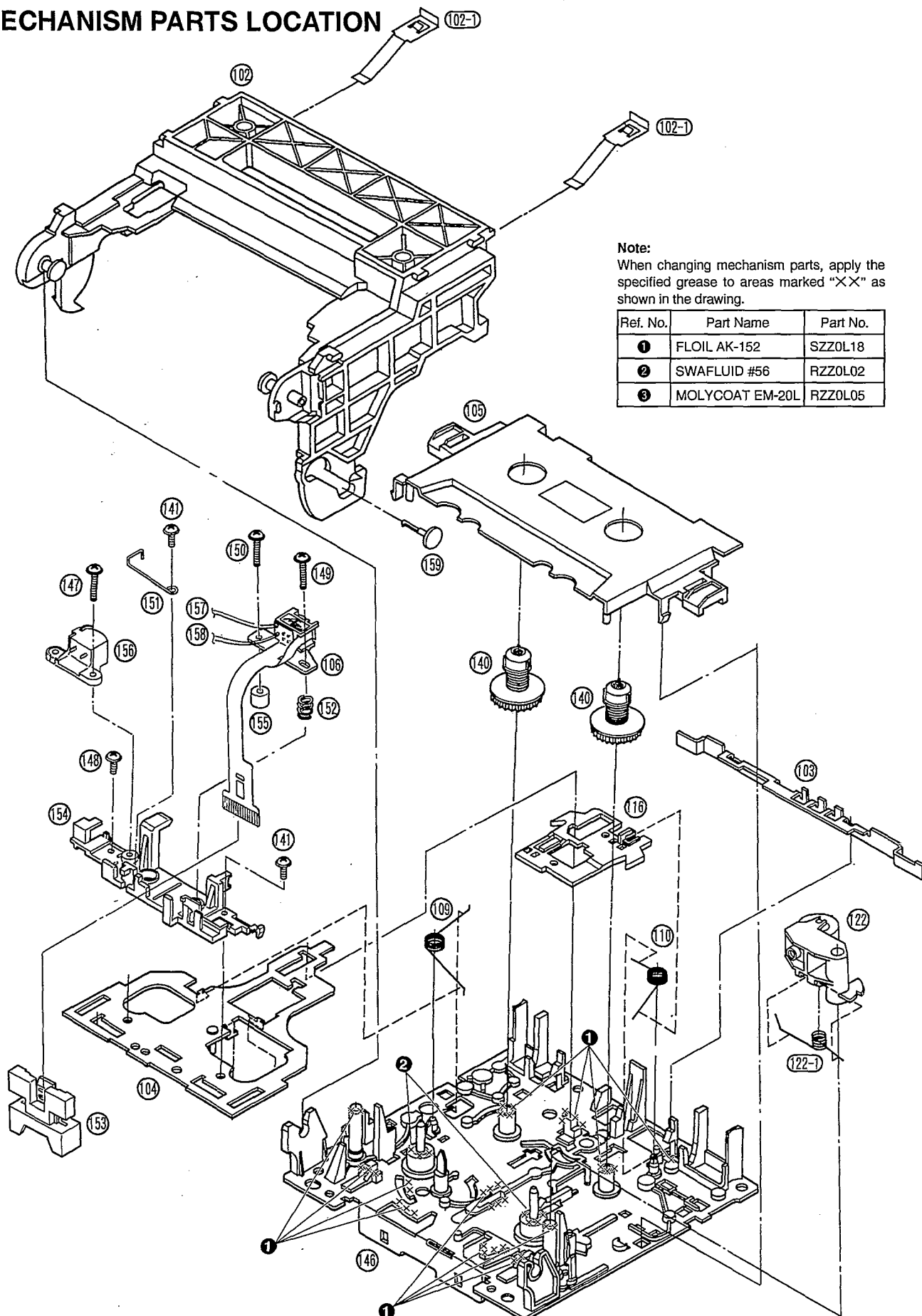
## ■ CABINET PARTS LOCATION



6 7 8 9 10



# MECHANISM PARTS LOCATION



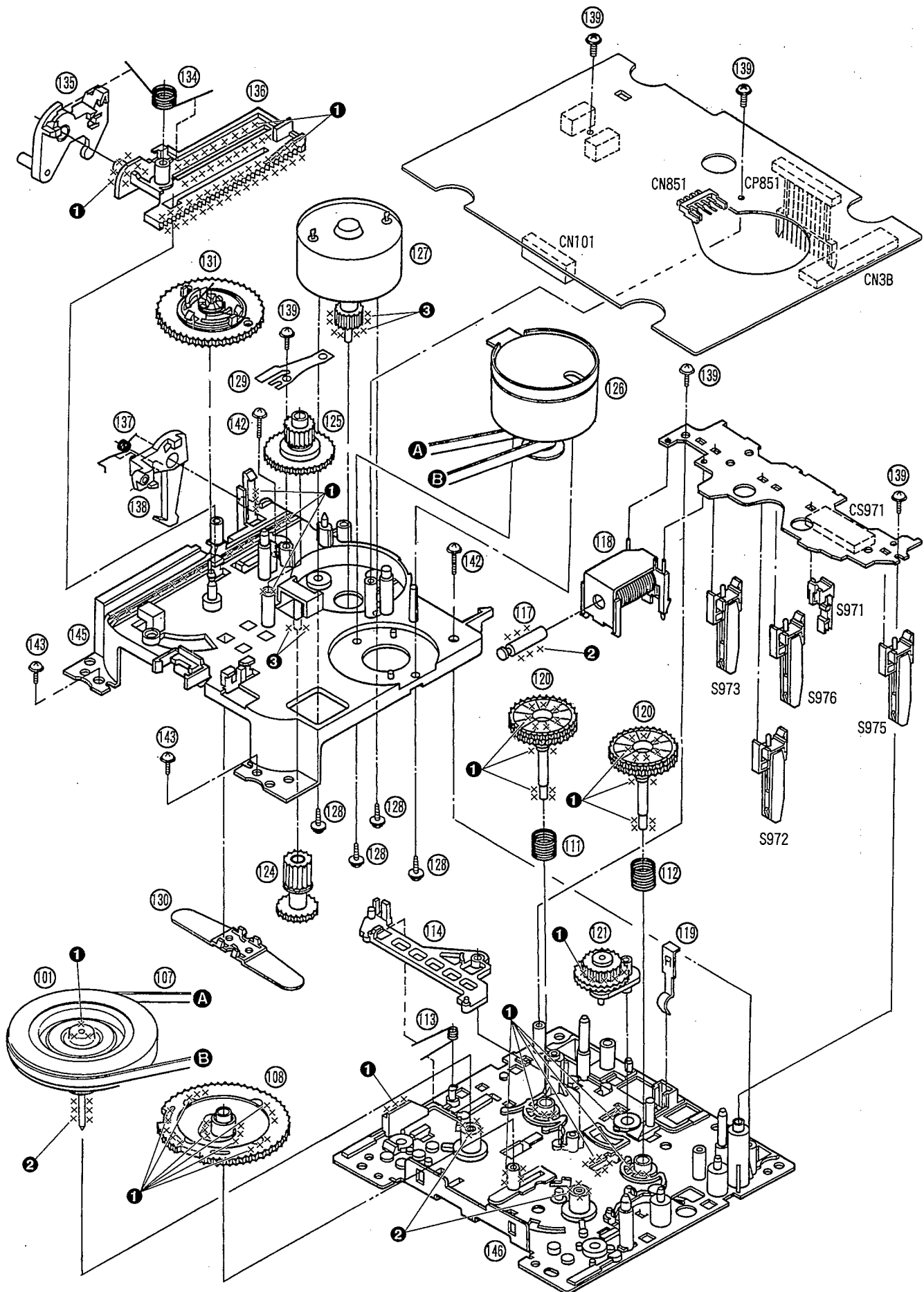
6

7

8

9

10



(This printed circuit board diagram may be modified at any time with the development of new technology.)

MR HEAD BIAS  
NOL TEST POINT



6

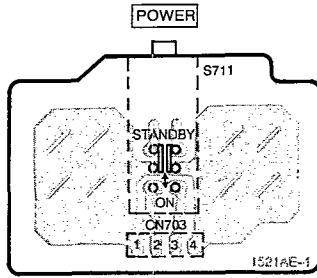
7

8

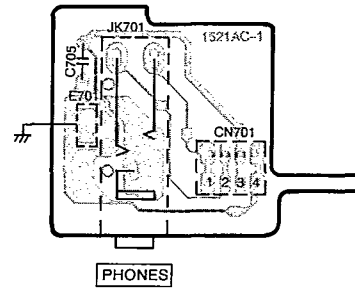
9

10

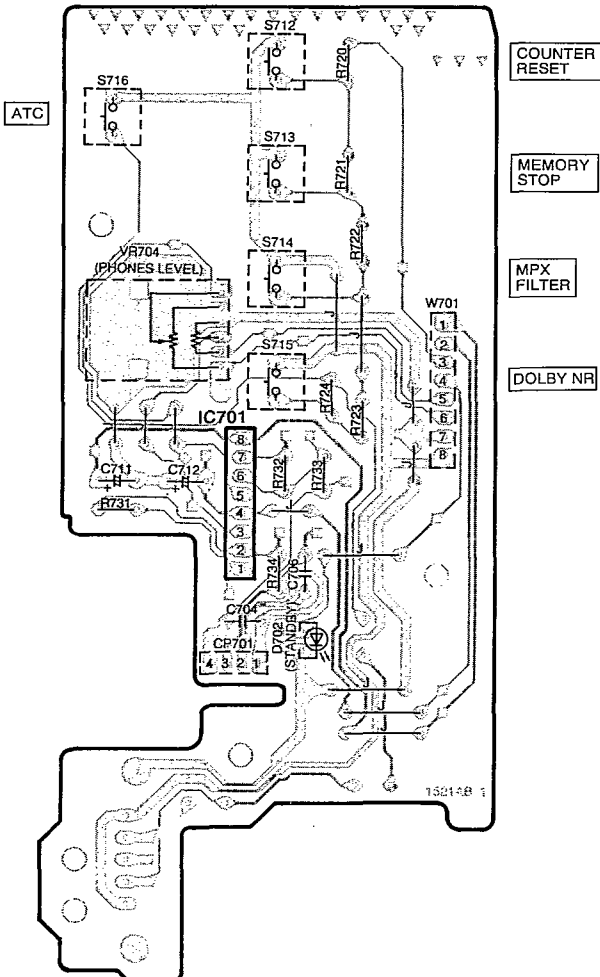
# **B** POWER SWITCH P.C.B. (REP2285C-S)



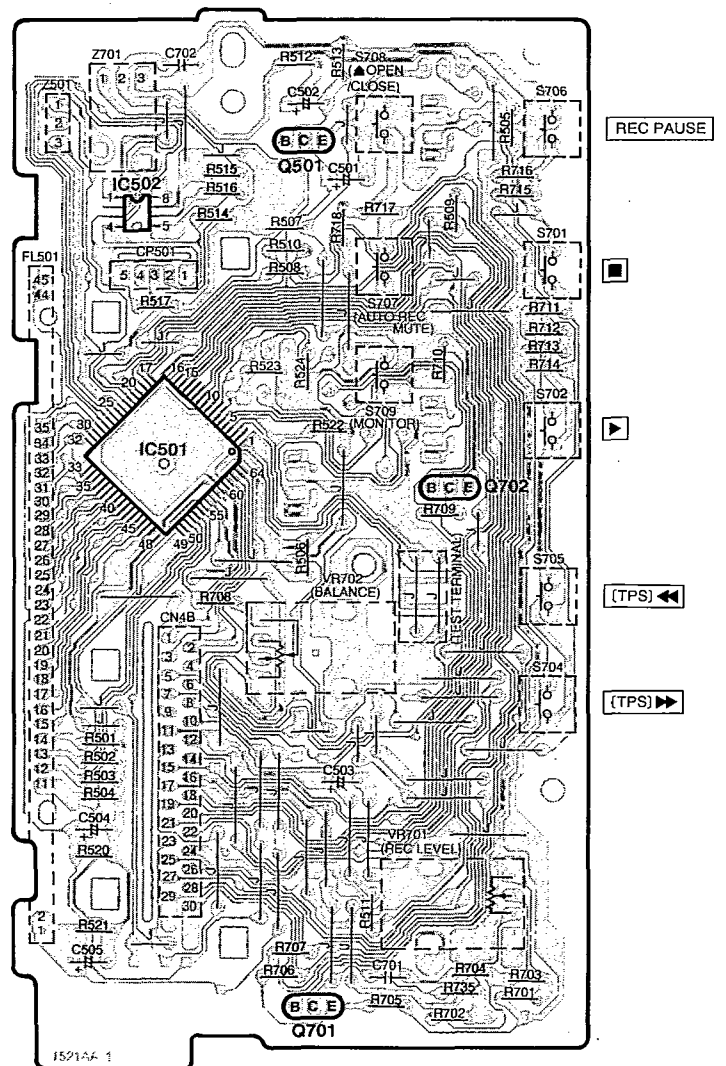
# **E** HEADPHONES JACK P.C.B. (REP2285C-S)



# **F** OPERATION P.C.B. (REP2285C-S)



# **G** FL P.C.B. (REP2285C-S)



1 2 3 4 5

**A** MAIN P.C.B.  
(REP2284C-M)

A

B

C

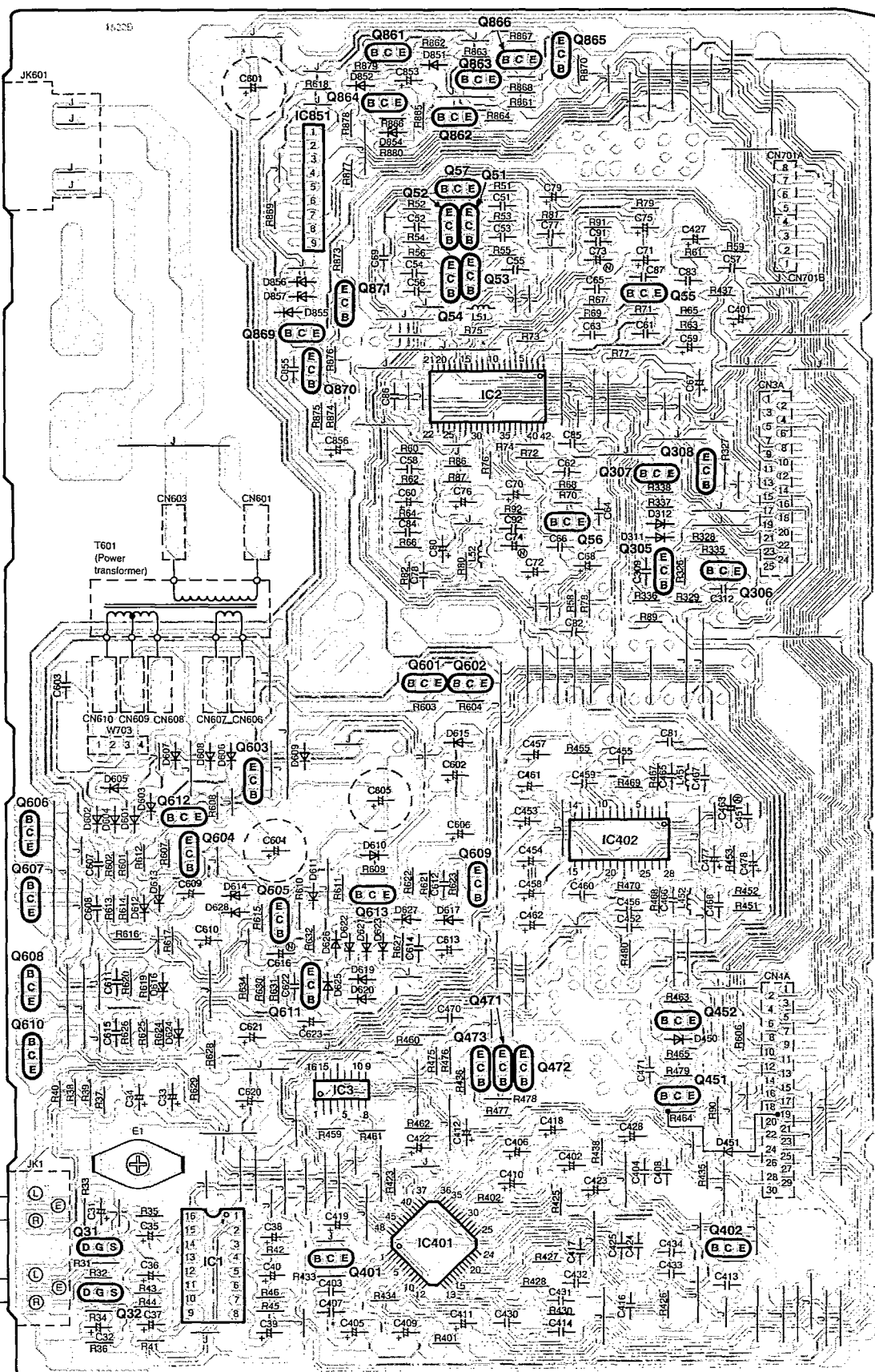
D

E

F

 AC IN  
(230-240V 50Hz)

 PLAY  
(OUT)

 REC  
(IN)




1136