

JVC

SERVICE MANUAL

STEREO RECEIVER

CA-MXC5BK (Unit No. XT-MXC5BK)



**For instruction manual, please refer to the DX-MXC5BK (S.M.No.20389).*

**DX-MXC5BK is needed (for power supply etc.) when servicing.*

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Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorised in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits.
2. Any unauthorised design alterations or additions will void the manufacturer's guarantee ; furthermore the manufacturer cannot accept responsibility for personal injury or property damage resulting therefrom.
3. Essential safety critical components are identified by (Δ) on the Parts List and by shading on the schematics ,and must never be replaced by parts other than those listed in the manual. Please note however that many electrical and mechanical parts in the product have special safety related characteristics . These characteristics are often not evident from visual inspection . Parts other than specified by the manufacturer may not have the same safety characteristics as the recommended replacement parts shown in the Parts List of the service manual and may create shock , fire , or other hazards .
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

Warning

1. Service should be performed by qualified personnel only.
2. This equipment has been designed and manufactured to meet international safety standards.
3. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
4. Repairs must be made in accordance with the relevant safety standards.
5. It is essential that safety critical components are replaced by approved parts.
6. If mains voltage selector is provided, check setting for local voltage .

Important for Laser Products

1. **CLASS 1 LASER PRODUCT**
2. **DANGER** : Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION** : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.
4. **CAUTION** : The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.
5. **CAUTION** : If safety switches malfunction, the laser is able to function.
6. **CAUTION** : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
7. **CAUTION** : The compact disc player provides a laser diode of wavelength 780-790nm and optical output power typical 3mW at the laser diode.

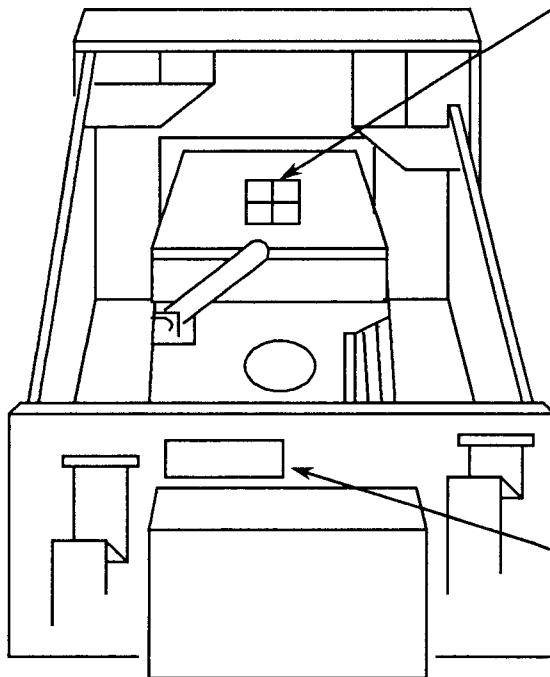
VARNING : Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.

ADVARSEL : Usynlig laserstrålning ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

ADVARSEL : Usynlig laserstrålning ved åbning, når sikkerhedsbryteren er avslott. unngå utsettelse for stråling.

REPRODUCTION AND POSITION OF LABELS



WARNING LABEL

(Except for the U. S. A.)

DANGER: invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)

VARNING: Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. (s)

ADVARSEL: Usynlig laserstrålning ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling. (d)

VARO: Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)

CLASS 1
LASER PRODUCT

CLASSIFICATION LABEL

(Except for the U. S. A. and Canada)

Description of Major LSIs

■ HD614089SC91 (IC201) : Tuner Control & FL Driver

(1) Terminal Layout

| | | | |
|------------------|----|----|----------------|
| G5 | 1 | 64 | G6 |
| G4 | 2 | 63 | G7 |
| G3 | 3 | 62 | G8 |
| G2 | 4 | 61 | G9 |
| G1 | 5 | 60 | G10 |
| S1 | 6 | 59 | G11 |
| S2 | 7 | 58 | G12 |
| S3 | 8 | 57 | G13 |
| S4 | 9 | 56 | |
| S5 | 10 | 55 | <u>DCS IN</u> |
| S6 | 11 | 54 | <u>DCS OUT</u> |
| S7 | 12 | 53 | GND |
| S8 | 13 | 52 | OSC 2 |
| S9 | 14 | 51 | <u>OSC 1</u> |
| S10 | 15 | 50 | TEST |
| S11 | 16 | 49 | <u>RST IN</u> |
| S12 | 17 | 48 | <u>KIN 1</u> |
| | 18 | 47 | <u>KIN 2</u> |
| -BP | 19 | 46 | <u>KIN 3</u> |
| | 20 | 45 | <u>KIN 4</u> |
| <u>KO9</u> | 21 | 44 | <u>KO 1</u> |
| FREQ.OUT | 22 | 43 | <u>KO 2</u> |
| RM IN | 23 | 42 | <u>KO 3</u> |
| | 24 | 41 | <u>KO 4</u> |
| <u>STEREO IN</u> | 25 | 40 | |
| <u>TUNED IN</u> | 26 | 39 | |
| INH IN | 27 | 38 | |
| | 28 | 37 | <u>KO 8</u> |
| MUTE | 29 | 36 | CE |
| MONO | 30 | 35 | DATA OUT |
| | 31 | 34 | DATA IN |
| VCC | 32 | 33 | CLK |

(2) Table of Key Matrix

| | KEY-IN1 | KEY-IN2 | KEY-IN3 | KEY-IN4 |
|----------|----------------|-----------|--------------|-------------|
| KEY-OUT1 | | TIMER 1 | TIMER 2 | DAILY |
| KEY-OUT2 | WAKE-UP /SLEEP | CLOCK ADJ | CANCEL | MEMORY |
| KEY-OUT3 | UP | DOWN | PRESET UP | PRESET DOWN |
| KEY-OUT4 | FM | AM | FM MODE/MUTE | |

(3) Pin Functions

| Pin No. | Name | I/O | Function |
|---------|------------------|-----|--|
| 1~5 | G5~G1 | O | FL grid control output |
| 6~17 | S1~S12 | O | FL segment control output |
| 19 | -BP | — | Power supply for FL drive circuit |
| 21 | <u>KO9</u> | O | Key matrix output |
| 22 | FREQ.OUT | O | Test signal output |
| 23 | <u>RM IN</u> | I | Pull up |
| 25 | <u>STEREO IN</u> | I | STEREO indicator input |
| 26 | <u>TUNED IN</u> | I | Tuned indicator input |
| 27 | <u>INH IN</u> | I | Inhibit signal input |
| 29 | MUTE | O | Muting output |
| 30 | MONO | — | NC |
| 32 | VCC | — | Power supply (+ 5V) |
| 33 | CLK | O | Serial clock output to PLL (IC102 : LC7218). |
| 34 | DATA IN | I | Serial data input from PLL (IC102 : LC7218). |
| 35 | DATA OUT | O | Serial data output to PLL (IC102 : LC7218). |
| 36 | <u>CE</u> | O | Chip enable output to PLL (IC102 : LC7218). |
| 37 | <u>KO8</u> | O | Key matrix output |
| 41~44 | <u>KO4~KO1</u> | O | Key matrix output |
| 45~48 | <u>KI4~KI1</u> | I | Key matrix input |
| 49 | <u>RST IN</u> | I | Reset signal input |
| 50 | <u>TEST</u> | — | Connect to Vcc |
| 51 | OSC 1 | I | Clock oscillation input |
| 52 | OSC 2 | O | Clock oscillation output |
| 53 | GND | — | GND |
| 54 | <u>DCS OUT</u> | O | COMPULINK signal output |
| 55 | <u>DCS IN</u> | I | COMPULINK signal input |
| 57~64 | G13~G6 | O | FL grid control output |

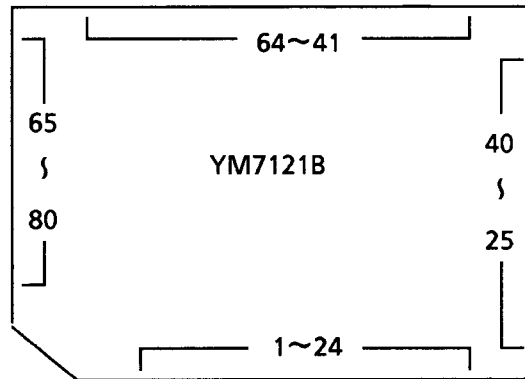
■ YM7121B(IC401)

1. Outline

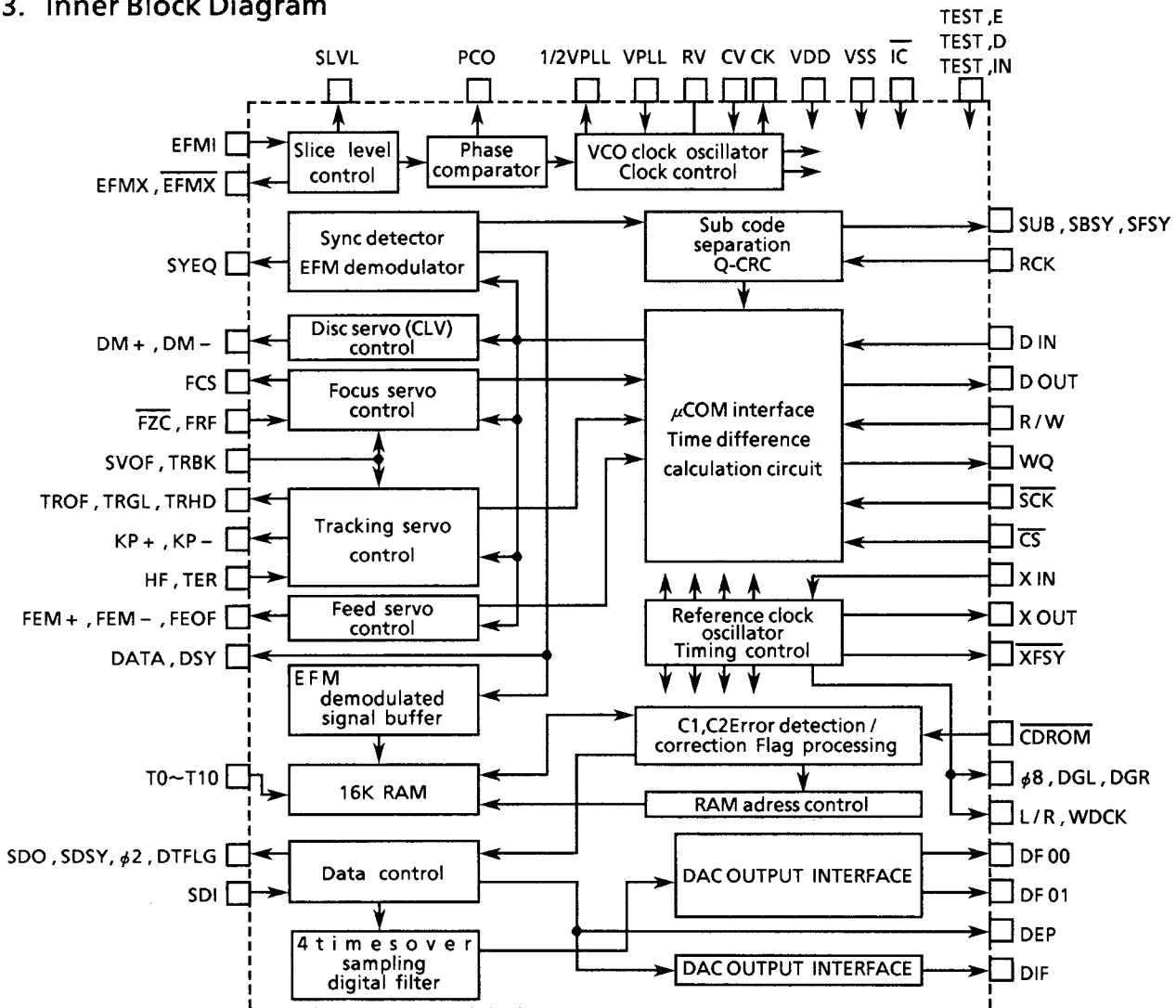
YM7121 is a C-MOS LSI for signal processing and servo control (SVC) in a CD player. It is used for the demodulation of the EFM signal from the laser pick up, detection / correction of the error signal, signal processing in digital filtering, etc. and for various servo controls (focusing, disc, tracking and feed servos).

And it contains digital interface which output the audio digital signals in S-RAM and CD-player. This digital interface matches EIAJ standards.

2. Top View



3. Inner Block Diagram



4. Pin Functions Description

| Pin No. | Symbol | I/O | Function |
|----------------------------------|---|----------------------------|--|
| 1 | CV | I | Adequate time constant is added to this terminal and input the PCO output. This makes the structure of clock reproduce circuit by inner VCO circuit. |
| 2 | RV | — | RV terminal is standard voltage terminal of inner VCO. And capacity for stabilizing is added to this terminal. |
| 3 32 72 | VDD | — | These are +5V power supply terminals. |
| 4 5 70 | TEST. IN TEST. E TEST. D | I I I | These terminals are for test. |
| 6 | SYEQ | O | This is the check output terminal, it becomes high when flame synchronizing signal detected from EFM pattern coincides frame synchronizing signal from internal counter. |
| 7 | DSY | O | DSY is synchronizing signal which becomes high when first signal of data output comes in. This terminal is the check terminal. |
| 8 | DATA | O | This terminal is for checks. The DATA is a serial signal of CK bit rate and it contains 8 bit EFM demodulation signal and 5 bit data control signal in 17 bit. |
| 9 | CK | O | CK has 4.3218 MHz clock. |
| 10~19 | T0~T9 | I | This terminal is internal RAM test terminal, and connected GND. |
| 22 | DEP | O | De-emphasis is necessary when this terminal is high. |
| 23 | DIF | O | DIF is digital audio interface format output matched EIAJ standards. |
| 24 | SDO | O | SDO is a serial signal output of $\phi 2$ bit rate. (The MSB puts in at first.) |
| 25 | SDI | I | SDI is the input terminal of 4 times over sampling digital filter. It is usually connected with SDO. |
| 26 | SDSY | O | This terminal changes the Lch/Rch by LSB of the SDO. |
| 27 | DTFLG | O | Not used. |
| 28 | $\phi 2$ | O | $\phi 2$ is 2.1168 MHz crystal clock. |
| 29, 52, 77 | VSS | — | GND |
| 30 31 | XOUT XIN | O I | The clock frequency is generated by crystal oscillator (16.9344MHz) and connecting capacitors each pin. |
| 33 34 35 36 37 38 | XFSY SUB SBSY RCK SFSY CDROM | O O O I O O | Not used. |
| 39 | $\phi 8$ | O | $\phi 8$ is 8.4672MHz crystal clock. |
| 40 41 | WDCK L/R | O O | This is synchronizing signal for data transfer and it connects with DAC. |
| 42 43 | DGL DGR | O O | Not used. |
| 44 45 | DF01 DF00 | O O | Serial data output. (Right channel.) Serial data output. (Left channel.) |
| 46 | $\overline{\text{SCK}}$ | I | This terminal is connected to μCOM . It is an input terminal that carries the clock signal for data transfers. |
| 47 | R/W | I | This connects with microcomputer and it is an output terminal for switching data transmission mode. it enables to transmit data from SVC to microcomputer when R/M is "L" and from microcomputer to SVC when R/W is "H". |
| 48 | $\overline{\text{CS}}$ | I | This is a chip select terminal for YM7121B. |
| 49 | DOUT | O | This terminal is the data output terminal connected to μCOM . When R/W is low, data is transferred from YM7121B to μCOM , according to the SCK clock input. |

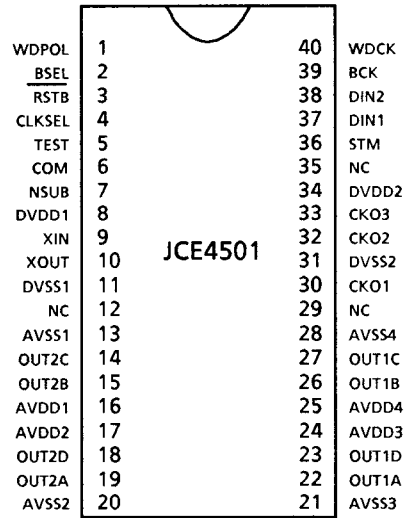
| Pin No. | Symbol | I/O | Function |
|--|---|---------------------------------|---|
| 50 | WQ | O | This terminal is connected to μ COM. It is a request signal which demands to μ COM inputting the data transfer (YM7121B to μ COM). |
| 51 | DIN | I | This is a data input terminal connected to μ COM. When R/W is high, the data is transferred from μ COM to YM7121B according to the SCK clock input. |
| 53 54 | DM+ DM- | O O | These terminals output the PWM to control the speed of spindle motor. The speed of the motor goes up when DM+ is high, and slows down when DM- is high: both terminals can not become high simultaneously. |
| 55 56 60 61 62 63 64 | HF TER TRHD TRGL TROF KP- KP+ | I I O O O O O | When tracks are being crossed during serches, the amplitude variation of the generated HF signal is sampled at the zero - cross point of the tracking error signal TER and the TROF signal is output. The level variations of this signal turn the servo on and off, greatly facilitaing track acquisition. KP+ or KP- is output to conduct tracking, and TRHD is output during tracking to cause generation of the tracking error signal. The TRGL signal is for increasing the tracking gain after tracking is completed. |
| 57 58 59 | FEM+ FEM- FEOF | O O O | The FEM+ and FEM- are output as high speed feed signals, and FEOF signal is output for cutting the feed servo during high speed feed. |
| 65 | TRBK | I | TRBK is input to apply tracking brake from outside. TRGL becomes low with high input and inner control signal TBKE becomes high. |
| 66 | SVOF | I | When the signal inputs to SVOF, tracking and feed srvo set to OFF. TROF and FEOF become "H" with high input, and TRHD, KP+, KP- become low. |
| 67 68 69 | $\overline{\text{FZC}}$ FCS FRF | I O I | These terminals are used for controlling the focus servo. The FCS is for a leading signal of Focusing; the signal, generated when the focus point is achieved, terminate the focusing operation; and FCO flag is dropped internally by FRF signal generated when reflected light is detected. |
| 71 | $\overline{\text{IC}}$ | I | YM7121B needs initializing when power supply turn on. IC will be low more than 400 μ s since XIN is input clock with VDD standard. |
| 73 74 75 | SLVL EFMX $\overline{\text{EFMX}}$ | O O O | Amplitude limited, mutually anti-phased signals are output from EFMX and $\overline{\text{EMFX}}$. Slice level is controlled by these signals and external amplifier. SLVL is output amplitude alteration component of both terminals. When integral circuit is connected to external. YM7121B easily can control slice level. |
| 76 | EFMI | I | This terminal is input EFM signal. (1~2 Vpp) |
| 78 | PCO | O | This terminal outputs the phase difference when the polarity of the clock and the EFM pattern changes. |
| 79 | VPLL | I | This terminal is input D.C. voltage matched VCO free run frequency. (17.2872 MHz) |
| 80 | 1/2 VPLL | O | This terminal outputs a half of VPLL input, and capacity for stabilizing is added to this terminal. |

■ JCE4501(IC703)··· D/A CONVERTER

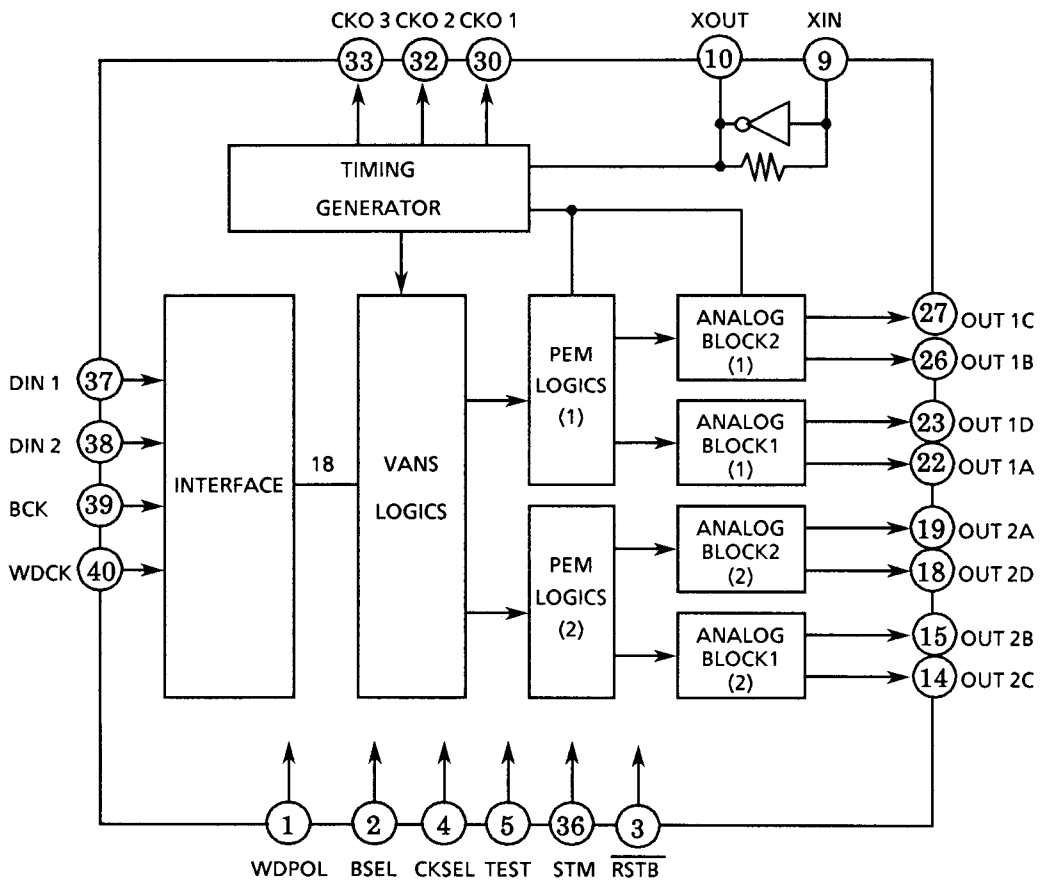
1. Outline

The JCE4501 is a CMOS digital-analog converter with independent left and right channels. It was developed for PCM digital audio equipment. It features pulse edge modulation (PEM) and Victor advanced noise shaping (VANS) for resolution equivalent to 20 bits (0-20 kHz) and a low distortion ratio. At JVC, this type of digital-analog converter is called a DD converter.

2. Terminal Layout



3. Internal Block Diagram

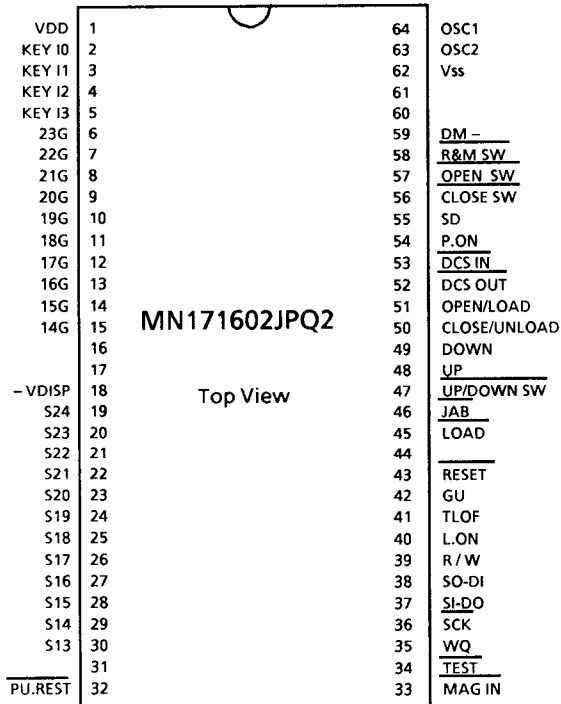


4. Pin Functions Description

| Pin No. | Symbol | I/O | Function |
|---------|--------------------------|-----|--|
| 1 | WDPOL | I | Word data polarity switching pin |
| 2 | BSEL | I | High : CXD 2554P format, low : YM3414 format |
| 3 | $\overline{\text{RSTB}}$ | I | Reset pin (low active) |
| 4 | CLKSEL | I | High: 256Fs mode, low: 384 Fs mode |
| 5 | TEST | I | Test mode switching pin |
| 6 | COM | I | COM board voltage fastening pin (connected to D-VDD) |
| 7 | NSUB | I | Silicon board voltage fastening pin (connected to D-VDD) |
| 8 | DVDD1 | — | Digital power supply pin 1 |
| 9 | XIN | I | Crystal oscillator input pin |
| 10 | XOUT | O | Crystal oscillator output pin |
| 11 | DVSS1 | — | Digital ground pin 1 |
| 12 | NC | — | To ground |
| 13 | AVSS1 | — | Analog ground pin 1 |
| 14 | OUT2C | O | 2C PEM output pin |
| 15 | OUT2B | O | 2B PEM output pin |
| 16 | AVDD1 | — | Analog power supply pin 1 |
| 17 | AVDD2 | — | Analog power supply pin 2 |
| 18 | OUT2D | O | 2D PEM output pin |
| 19 | OUT2A | O | 2A PEM output pin |
| 20 | AVSS2 | — | Analog ground pin 2 |
| 21 | AVSS3 | — | Analog ground pin 3 |
| 22 | OUT1A | O | 1A PEM output pin |
| 23 | OUT1D | O | 1D PEM output pin |
| 24 | AVDD3 | — | Analog power supply pin 3 |
| 25 | AVDD4 | — | Analog power supply pin 4 |
| 26 | OUT1B | O | 1B PEM output pin |
| 27 | OUT1C | O | 1C PEM output pin |
| 28 | AVSS4 | — | Analog ground pin 4 |
| 29 | NC | — | To ground |
| 30 | CKO1 | O | Clock output pin 1 (384 Fs output) |
| 31 | DVSS2 | — | Digital ground pin 2 |
| 32 | CKO2 | O | Clock output pin 2 (192 Fs output) |
| 33 | CKO3 | O | Clock output pin 3 (128 Fs output) |
| 34 | DVDD2 | — | Digital power supply pin 2 |
| 35 | NC | — | Not connected |
| 36 | STM | I | Stereo/monaural switching pin (high: stereo output, low: left channel, reversed polarity left channel) |
| 37 | DIN1 | I | Left channel 18-bits 8Fs serial data input pin |
| 38 | DIN2 | I | Right channel 18-bits 8Fs serial data input pin |
| 39 | BCK | I | Bit clock input pin |
| 40 | WDCK | I | Word clock input pin |

■ MN171602JPQ2 (IC901) : CD SYSTEM CONTROLLER

1. Terminal Layout



2. Key Matrix

| | KEY IN 0 | KEY IN 1 | KEY IN 2 | KEY IN 3 |
|-----|-----------|----------|-----------|----------|
| G14 | 2 | 4 | 6 | P |
| G15 | EJECT | 1 | 3 | 5 |
| G16 | +10 ◀◀ | +1 ▶▶ | ■ /CANCEL | ▶ / |
| G19 | SIDEA/B | CALL | REPEAT | ▲ |
| G20 | EDIT | MEMORY | INTRO | P.MODE |

3. Pin Functions Description

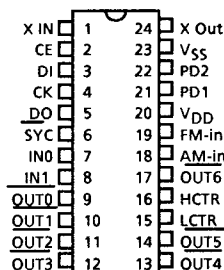
| Pin NO. | symbol | I/O | Function | Pin NO. | symbol | I/O | Function |
|---------|---------|-----|----------------------------------|---------|--------------|-----|--|
| 1 | VDD | I | Power supply | 33 | MAG-IN | I | Magazine in signal |
| 2 | KEY I0 | I | Key matrix input | 34 | TEST | I | Entering test mode with "L" |
| 3 | KEY I1 | I | Key matrix input | 35 | WQ | I | Write request input |
| 4 | KEY I2 | I | Key matrix input | 36 | SCK | O | Clock output for data transfers |
| 5 | KEY I3 | I | Key matrix input | 37 | SI-DO | I | Serial data input |
| 6 | 23G | O | FL grid control output | 38 | SO-DI | O | Serial data output |
| 7 | 22G | O | FL grid control output | 39 | RW | O | Read / Write signal output |
| 8 | 21G | O | FL grid control output | 40 | L.ON | O | Turns on laser |
| 9 | 20G | O | FL grid control output | 41 | TLOF | O | Tracking servo off signal |
| 10 | 19G | O | FL grid control output | 42 | GU | O | Increases tracking gain |
| 11 | 18G | O | FL grid control output | 43 | RESET | I | Reset signal input |
| 12 | 17G | O | FL grid control output | 44 | | - | Connect to GND |
| 13 | 16G | O | FL grid control output | 45 | LOAD | I | Disc load detect signal |
| 14 | 15G | O | FL grid control output | 46 | JAB | I | JAB switch signal |
| 15 | 14G | O | FL grid control output | 47 | UP/DOWN SW | I | Height detection signal |
| 16 | | - | Non connect | 48 | UP | O | Lifter driving control signal |
| 17 | | - | Non connect | 49 | DOWN | O | Lifter driving control signal |
| 18 | -VDDISP | I | FL power supply | 50 | CLOSE/UNLOAD | O | P1 CLOSE or UNLOAD driving control signal. |
| 19 | S24 | O | FL segment control output | 51 | OPEN/LOAD | O | P1 OPEN or LOAD. |
| 20 | S23 | O | FL segment control output | 52 | DCS OUT | O | Compulink signal output |
| 21 | S22 | O | FL segment control output | 53 | DCS IN | I | Compulink signal input |
| 22 | S21 | O | FL segment control output | 54 | P.ON | O | H: power off, L: power on. |
| 23 | S20 | O | FL segment control output | 55 | SD | O | LOAD drive speed down output. |
| 24 | S19 | O | FL segment control output | 56 | CLOSE SW | I | "L" with tray closed |
| 25 | S18 | O | FL segment control output | 57 | OPEN SW | I | "L" with tray opened |
| 26 | S17 | O | FL segment control output | 58 | R&M SW | I | Reset&Memory SW input. |
| 27 | S16 | O | FL segment control output | 59 | DM- | I | Spindle signal input |
| 28 | S15 | O | FL segment control output | 60 | | - | Connect to GND |
| 29 | S14 | O | FL segment control output | 61 | | - | Non connect |
| 30 | S13 | O | FL segment control output | 62 | VSS | - | GND |
| 31 | | - | Connect to GND | 63 | OSC2 | O | Clock oscillation output |
| 32 | PU.REST | I | "L" with pickup at rest position | 64 | OSC1 | I | Clock oscillation input |

■ LC7218 (IC102) : PLL Synthesizer

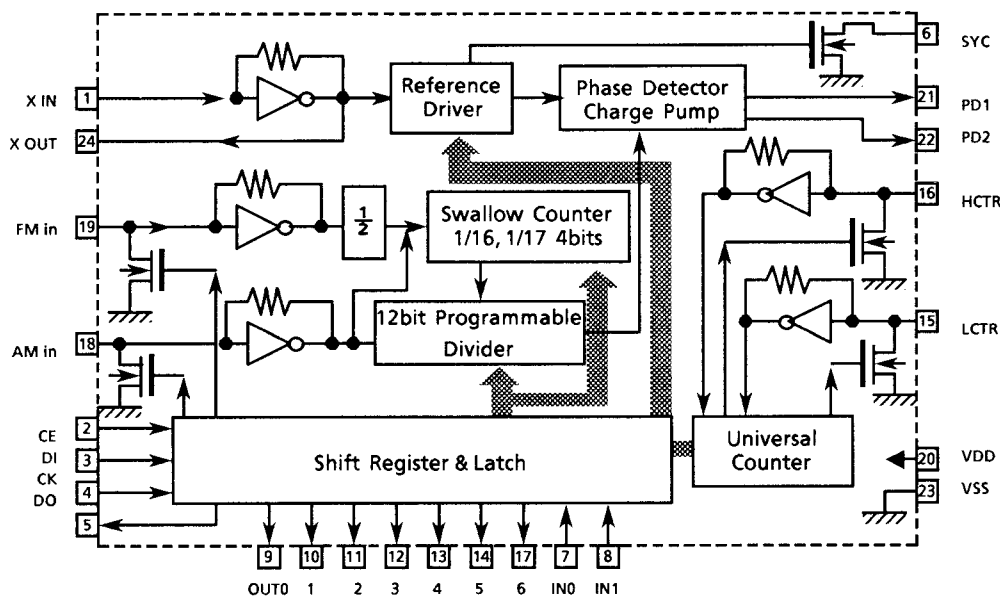
1. The main function descriptions

- (1) It makes the local oscillation frequency by the control data from IC102.
- (2) Decode the control signal and transmit the signal for receiving conditions.
- (3) For the best tuning, count the internal-frequency and transmit the data to IC102.

2. Terminal Layout



3. Block Diagram



4. Pin Functions

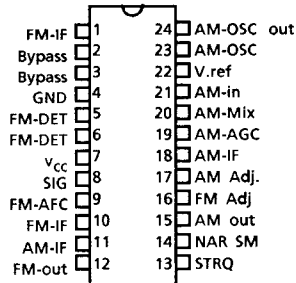
| Pin No. | Symbol | Name | I/O | Function |
|---------|-----------------|-----------------|-----|---|
| 1, 24 | X in, X out | X in, X out | I/O | Crystal oscillator (7.2MHz). |
| 2 | CE | CE | I | Fix the chip enable to "H" when inputting (DI) and outputting (DO) the serial data. |
| 3 | DI | DI | I | Receive the control data from the controller (IC201). |
| 4 | CK | CK | I | This clock is used to synchronize data when transmitting the data of DI and DO. |
| 5 | DO | DO | O | Transmit the data from LC7218 to the controller which is synchronized with CK. |
| 6 | SYC | SYC | - | Not use |
| 7 | IN0 | Tuned in | I | Receive the tuned signal from IC104 (LA1266A). |
| 8 | IN1 | Stop in | I | Not use |
| 9 | OUT 0 | POWER | O | Not use |
| 10 | OUT 1 | QSC | O | Not use |
| 11 | OUT 2 | MONO | O | It is "H" on FM-monaural, "L" on FM-stereo. |
| 12 | OUT 3 | FM | O | It is "L" on FM mode. |
| 13 | OUT 4 | MW | O | It is "L" on MW mode. |
| 14 | OUT 5 | LW | O | Not use |
| 15 | LCTR | AM-IF | I | Universal counter input for AM-IF from IC104 (LA1266A). |
| 16 | HCTR | FM-IF | I | Universal counter input for FM-IF from IC104 (LA1266A). |
| 17 | OUT 6 | IF REQ | O | Output the "IF-signal request" to IC104 when the pin-7 (tuned in) goes to "H". |
| 18 | AM in | AM osc | I | Input the local oscillator signal of AM. |
| 19 | FM in | FM osc | I | Input the local oscillator signal of FM. |
| 20 | V _{DD} | V _{DD} | - | This is a terminal of power supply. |
| 21 | PD1 | PD1 | O | PLL charge pump output : When the local oscillator signal frequency is higher than the reference frequency , high level signals will output. When it is lower than the reference frequency, low level signals will output. When it is same as reference frequency signals, it will be floating. |
| 22 | PD2 | PD2 | O | Not use |
| 23 | V _{SS} | V _{SS} | - | GND |

■ LA1266A (IC104) : FM AM IF AMP & detector

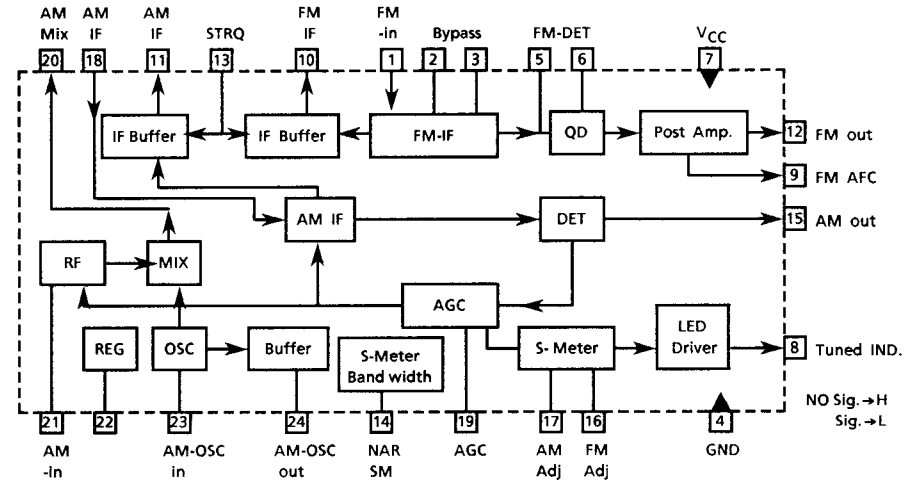
1. The main function descriptions

- (1) Amplify and detect of FM intermodulation frequencies.
- (2) It has local oscillator and mixer for AM, and amplify the AM-IF signal.

2. Top View



3. Block Diagram



4. Pin Functions

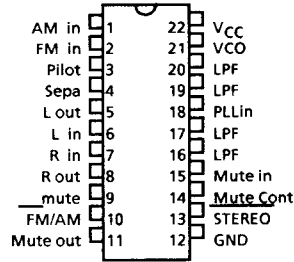
| Pin No. | Symbol | I/O | Function |
|---------|-----------------|-----|---|
| 1 | FM IF | I | This is an input terminal of FM IF Signal. |
| 2, 3 | Bypass | - | Bypass of FM IF Amp. |
| 4 | GND | - | This is the device ground terminal. |
| 5, 6 | FM DET | - | FM detect transformer. |
| 7 | V _{CC} | - | This is the power supply terminal. |
| 8 | SIGNAL | O | Mute drive and signal stop drive output when tuning. Active Low |
| 9 | FM AFC | O | This is an output terminal of voltage for FM-AFC. |
| 10 | FM IF | O | When the IF REQ signal of IC102(LC7218) applies to pin13, the signal of FM IF outputs. |
| 11 | AM IF | O | When the IF REQ signal of IC102(LC7218) applies to pin13, the signal of AM IF outputs. |
| 12 | FM out | O | FM detection output. |
| 13 | STRQ | I | The IF-signals come out from pin10 (FM-IF) or pin11 (AM-IF) while this terminal goes to "High". |
| 14 | NAR SM | - | Control the Band-width of AM signal meter. |
| 15 | AM out | O | AM detection output. |
| 16 | FM Adj | - | For adjust the stop level (or mute level) of FM. |
| 17 | AM Adj | - | For adjust the stop level (or mute level) of AM. |
| 18 | AM-IF | I | Input of AM IF Signal. |
| 19 | AM-AGC | I | This is an AGC voltage Input terminal for AM. |
| 20 | AM-MIX | O | This is an output terminal for AM mixer. |
| 21 | AM-IN | I | This is an input terminal for AM RF Signal. |
| 22 | V.REF | - | Control the Band-width of FM signal meter. |
| 23 | AM-OSC | - | This is a terminal of AM Local oscillation circuit. |
| 24 | AM-OSC out | O | AM Local Oscillation Signal output. |

■ LA3401 (IC105) : FM MPX Demodulator

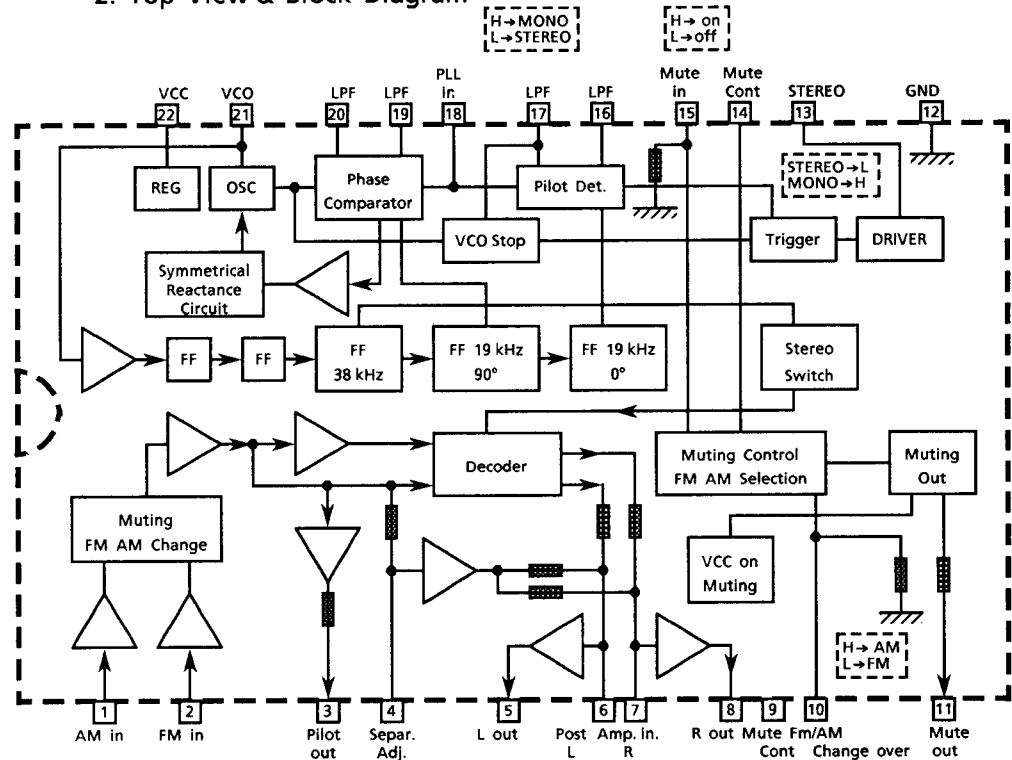
1. The main function descriptions

- (1) Demodulate the FM Multiplex Signal (Stereo signal).
- (2) When receiving FM Stereo Signal, it outputs the signal for indicator.
- (3) AM / FM Audio Amplifier.

(1) Terminal Layout



2. Top View & Block Diagram

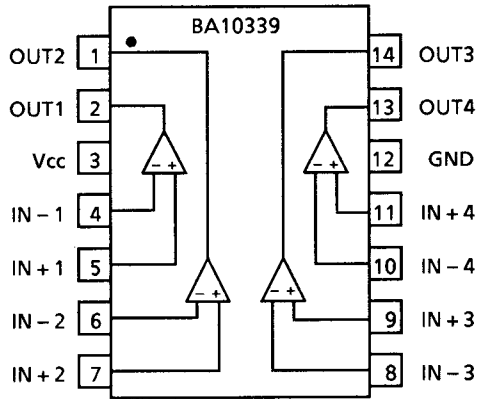


3. Pin Functions

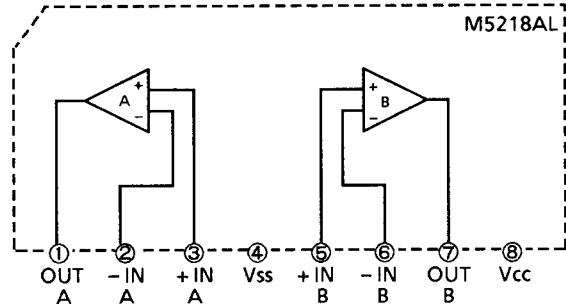
| Pin No. | Symbol | I/O | Function |
|---------|------------|-----|--|
| 1 | AM in | I | This is an input terminal for AM detection signal. |
| 2 | FM in | I | This is an input terminal for FM detection signal. |
| 3 | Pilot out | O | Output of MPX pilot signal (Connect to Pin18). |
| 4 | Sepa. Adj. | --- | Separation adjustment. |
| 5 | L. out | O | Left channel signal output. |
| 6 | L | O | Reversal output of Pin5. |
| 7 | R | O | Reversal output of Pin8. |
| 8 | R out | O | Right channel signal output |
| 9 | Mute Cont | --- | The mute time is controlled by the connected capacitor when turning the power switch on. |
| 10 | FM / AM | I | Change over the FM / AM input. "H" : AM, "L" : FM |
| 11 | Mute out | --- | Not use |
| 12 | GND | --- | Ground terminal. |
| 13 | STEREO | O | Stereo indicator output. Stereo : "L", Mono : "H" |
| 14 | Mute Cont | --- | The mute time is controlled by the connected capacitor when changing over the FM / AM . |
| 15 | Mute in | I | Mute signal input. "H" : Mute on, "L" : Mute off. |
| 16 | LPF | --- | Low pass filter of pilot detector. |
| 17 | LPF | --- | While this terminal goes to "H", the VCO stop. |
| 18 | Pilot in | I | PLL input. |
| 19 | LPF | --- | Low-pass filter of PLL. |
| 20 | LPF | --- | Low-pass filter of PLL. |
| 21 | VCO | I | Voltage controlled oscillator terminal. |
| 22 | Vcc | --- | Power supply. |

Internal Block Diagrams of Other ICs

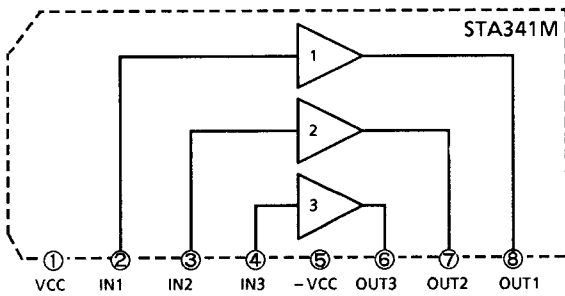
■ BA10339 (IC502) : Comparator



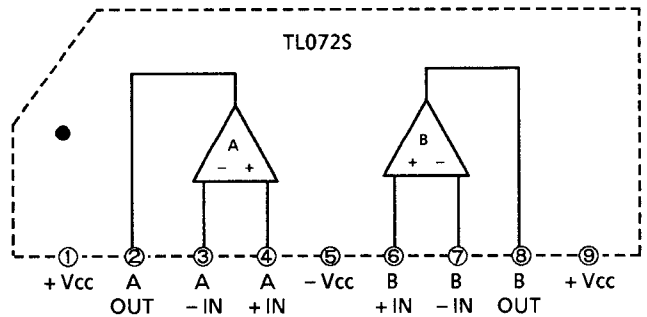
■ M5218AL (IC503,701,702,802,851,871) : Dual OP Amp.



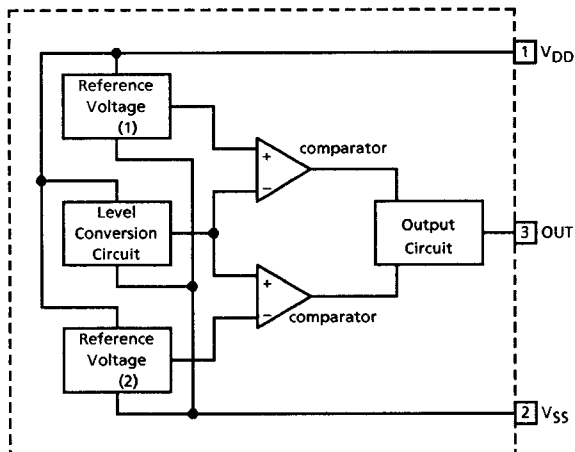
■ STA341M (IC801) : Motor Driver



■ TL072S (IC501) : Dual OP Amp.



■ MN1280 (P.Q) : IC902 RESET IC
 MN1281 (P.Q) : IC902 RESET IC

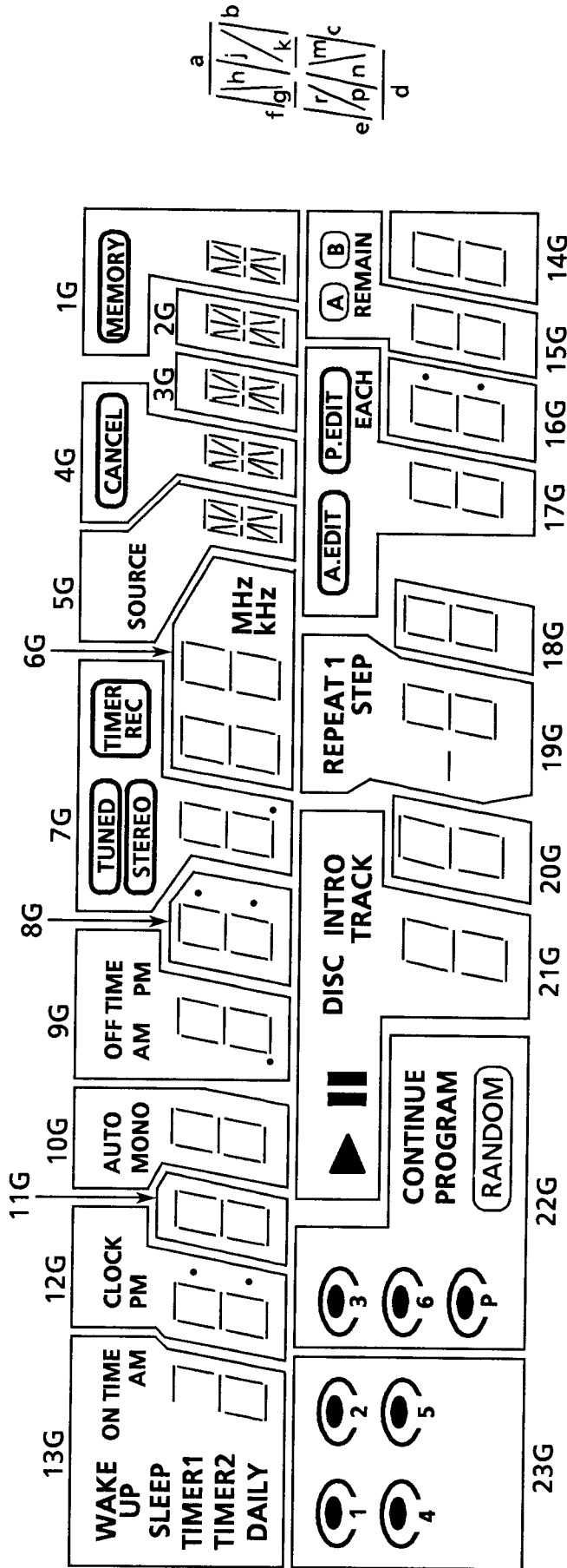


| Pin No. | Pin Name | Functions |
|---------|-----------------|---|
| 1 | V _{DD} | Power supply |
| 2 | V _{SS} | Ground |
| 3 | OUT | Reset signal output : Low level is output when resetting : High level is output when cancelling the reset. |

Internal Wiring of the FL Display Tube

■ ELU0001-135:(FL201)

1. Grid Assignment



2. Pin Connection

| TERMINAL NO. ELECTRODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| | F1 | F1 | F1 | NP | NP | 13G | 12G | 11G | 10G | 9G | 8G | 7G | 6G | 5G | 4G | 3G | 2G | 1G | P | P |
| | S3 | S4 | S5 | S6 | S7 | S8 | S9 | S10 | S11 | S12 | NP | NP | 23G | 22G | 21G | 20G | 19G | 18G | 17G | 16G |
| | | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 |
| | 15G | 14G | 14G | S24 | S23 | S22 | S21 | S20 | S19 | S18 | S17 | 16 | S15 | S14 | S13 | NP | NP | F2 | F2 | F2 |
| | | | | | | | | | | | | | | | | | | | | |

Notes

F : Filament
G : Grid

NP : No Pin
P : Anode

3.Anode Connection Table

| | 13G | 12G | 11G | 10G | 9G | 8G | 7G | 6G | 5G | 4G | 3G | 2G | 1G |
|-----|---------|---------|------|------|----------|---------|-----------|-----|--------|--------|-----|-----|--------|
| S1 | d | d | d | d | d | d | d | d | d | d | d | d | d |
| S2 | ---- | e | e | e | e | e | e | e | e | e | e | e | e |
| S3 | c | c | c | c | c | c | c | c | c | c | c | c | c |
| S4 | g | ---- | ---- | ---- | ---- | ---- | ---- | KHz | r | r | r | r | m |
| S5 | b | col (:) | ---- | ---- | DP (.) | col (:) | DP (.) | MHz | k | n | n | n | n |
| S6 | DAILY | ---- | ---- | ---- | AM | ---- | STEREO | i | j,p | j,p | j,p | j,p | j,p |
| S7 | TIMER 2 | g | g | g | g | g | g | g | g,m | g,m | g,m | g,m | g |
| S8 | TIMER 1 | f | f | f | f | f | f | f | f | f | f | f | f |
| S9 | SLEEP | b | b | b | b | b | b | b | b | b | b | b | b |
| S10 | WAKE UP | a | a | a | a | a | a | a | a | a | a | a | a |
| S11 | AM | PM | ---- | MONO | PM | ---- | TUNED | j | h | h | h | h | h,k |
| S12 | ON TIME | CLOCK | ---- | AUTO | OFF TIME | ---- | TIMER REC | h | SOURCE | CANCEL | k | k | MEMORY |

| | 23G | 22G | 21G | 20G | 19G | 18G | 17G | 16G | 15G | 14G |
|-----|-----|----------|-------|------|--------|------|--------|---------|--------|------|
| S13 | ○ | CONTINUE | DISC | ---- | ▬ | ---- | ---- | ---- | ---- | ---- |
| S14 | ○ | ○ | TRACK | ---- | STEP | ---- | EACH | col (:) | REMAIN | ---- |
| S15 | ● | ● | a | a | a | a | a | a | a | a |
| S16 | 5 | 6 | b | b | b | b | b | b | b | b |
| S17 | ○ | ● | c | c | c | c | c | c | c | c |
| S18 | 4 | RANDOM | d | d | d | d | d | d | d | d |
| S19 | ● | P | e | e | e | e | e | e | e | e |
| S20 | ● | PROGRAM | f | f | f | f | f | f | f | f |
| S21 | 1 | ○ | g | g | g | g | g | g | g | g |
| S22 | ○ | ○ | ▶ | ---- | REPEAT | ---- | P.EDIT | ---- | A | ---- |
| S23 | ● | ● | | ---- | 1 | ---- | ---- | ---- | B | ---- |
| S24 | 2 | 3 | INTRO | ← | ---- | ---- | A.EDIT | ---- | ---- | ---- |

Disassembly Procedures

1. Removing the top cover

- 1) Remove the 2 screws fastening both sides of the Top Cover, and the 4 screws fastening the rear sides.
- 2) Remove the Top Cover.

2. Removing the front panel

- 1) Remove the 1 screw fastening bottom of the Front Panel.
- 2) Remove the 3 hooks.
- 3) Disconnect the connectors. (P901, JB222)
- 4) Remove the Front Panel.

3. Removing the changer assembly

- 1) Remove the top cover.
 - 2) Remove the front panel.
 - 3) Remove the 2 screws (B) fastening the changer assembly.
 - 4) Disconnect the connectors. (C, D, E, F, G)
 - 5) Slide the changer assembly to arrow direction (I).
 - 6) Remove the changer assembly.
- * NOTICE (for reinstalling)
Wire (H) should be set as Fig.2.

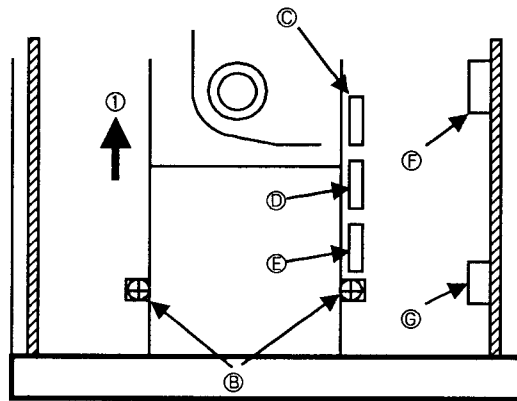


Fig.1

4. Removing the turntable base (Fig.2)

- 1) Remove the changer assembly.
 - 2) Turn over the changer assembly.
 - 3) Remove the 3 screws (J).
- * NOTICE : The left side spring differs from the right side ones.
- 4) Take the turntable base out.

5. Exchanging the pickup (Fig.2)

- 1) Remove the screw (K), and remove the feed nut support.
- 2) Remove the screw (L).
- 3) Remove the Feed Screw assembly, and remove the Pickup with the pickup shaft.
- 4) Exchange the pickup.

6. Removing the magazine holder (Fig.3)

- 1) Remove the 2 screws fastening the magazine holder.
- 2) Slide the magazine holder to arrow direction (L).
- 3) Remove the magazine holder to upside, and remove the tray stopper at the same time.

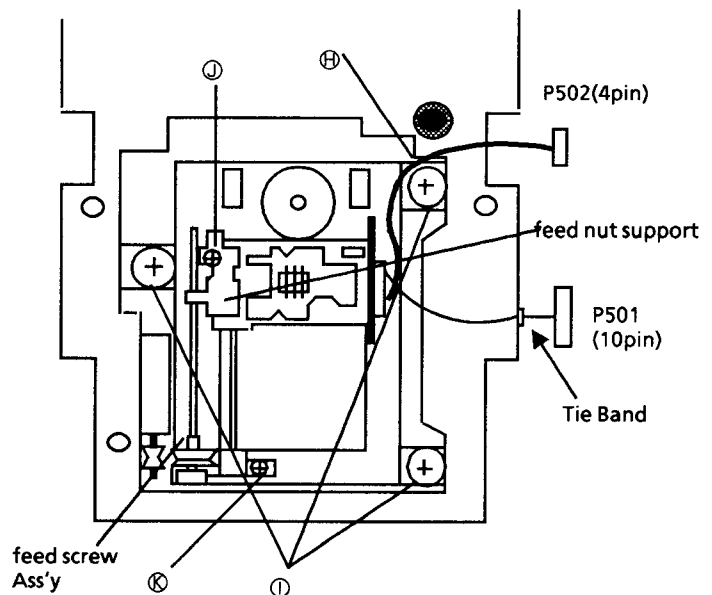


Fig.2

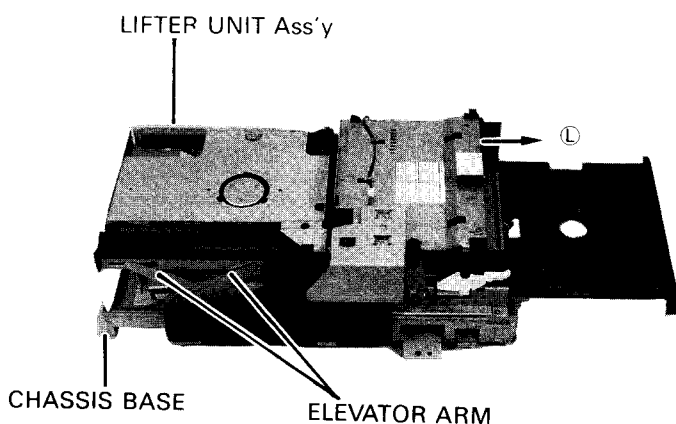


Fig.3

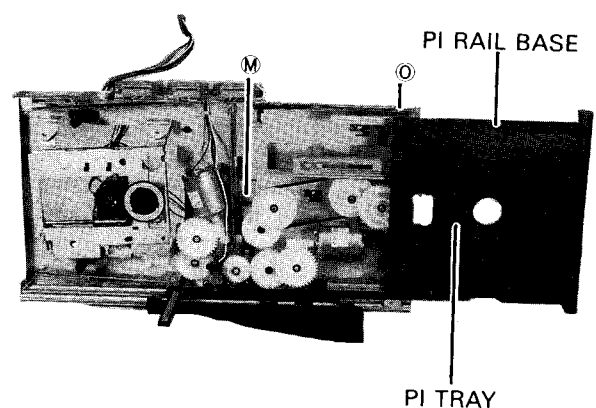


Fig.4

7. Removing the LIFTER UNIT Ass'y (Fig.3)

- 1) Remove the MAGAZINE HOLDER.
- 2) Lift the LIFTER UNIT Ass'y to the top position.
- 3) Remove the ELEVATOR ARMS from the CHASSIS BASE and the LIFTER UNIT Ass'y.
- 4) Remove the LIFTER UNIT Ass'y.

※ The LIFT CAM can be released, After removing the LIFTER UNIT Ass'y (Fig.7)

- 1) When installing the lift cam, Put the cam slider to the position shown in fig 7.
- 2) Install the changer assembly.
- 3) Set the power ON to operate the mechanism.
- 4) Set the power OFF while the disc is playing.
- 5) Set the power ON again.
In this case the unit will be reseted.

8. Removing the P1 RAIL BASE Ass'y (Fig.4,8)

- 1) Rotate the gear ㉑ clockwise a little.
- 2) Remove the P1 TRAY.
- 3) Remove the screw ㉒.
- 4) Remove the P1 RAIL BASE Ass'y.

9. Removing the P1 RAIL BASE (Fig.4,5,6)

- 1) Remove the P1 RAIL BASE Ass'y.
- 2) Remove the screw ㉑ fixing the open/close sw and the sw.
- 3) Pull the P1 RAIL BASE by pulling up the hook ㉓ slightly.
- 4) Remove the P1 RAIL BASE.

※ Install gear ㉑ so that part ㉒ shown in fig.5 is perpendicular to the P1 rail base.

The Gear Position when the P1 Rail Base is pulled out forward.

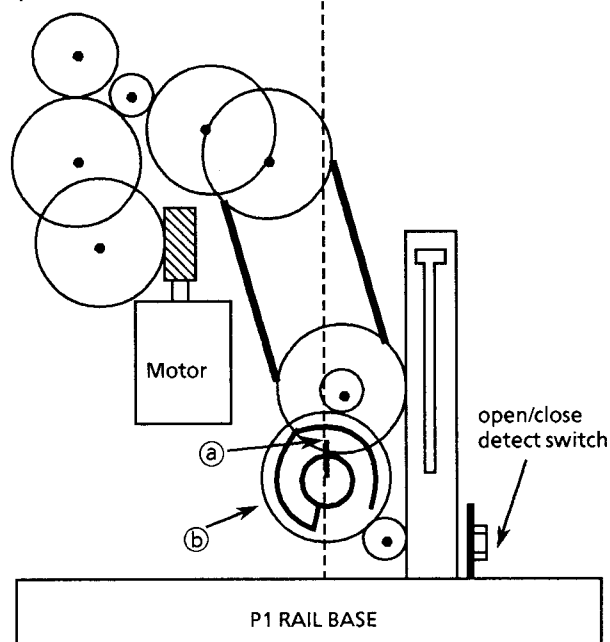


Fig.5

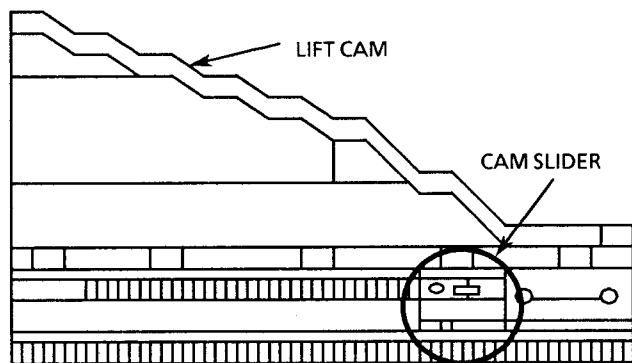


Fig.7

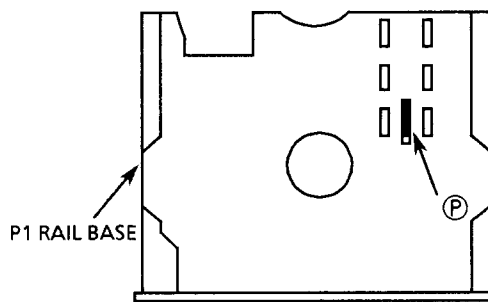


Fig.6

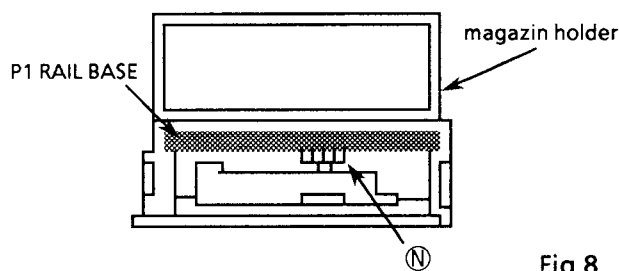
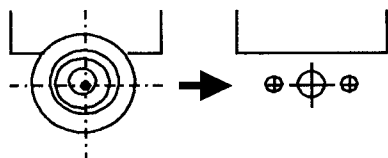


Fig.8

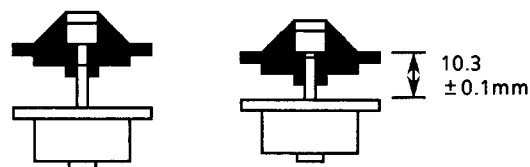
10. Removing the spindle motor

- 1) Remove the TURN TABLE BASE.
- 2) Turn over TURN TABLE BASE.
- 3) Remove the pressed-in turntable.
- 4) Remove the 2 screws fastening the motor.
- 5) Remove the spindle motor.

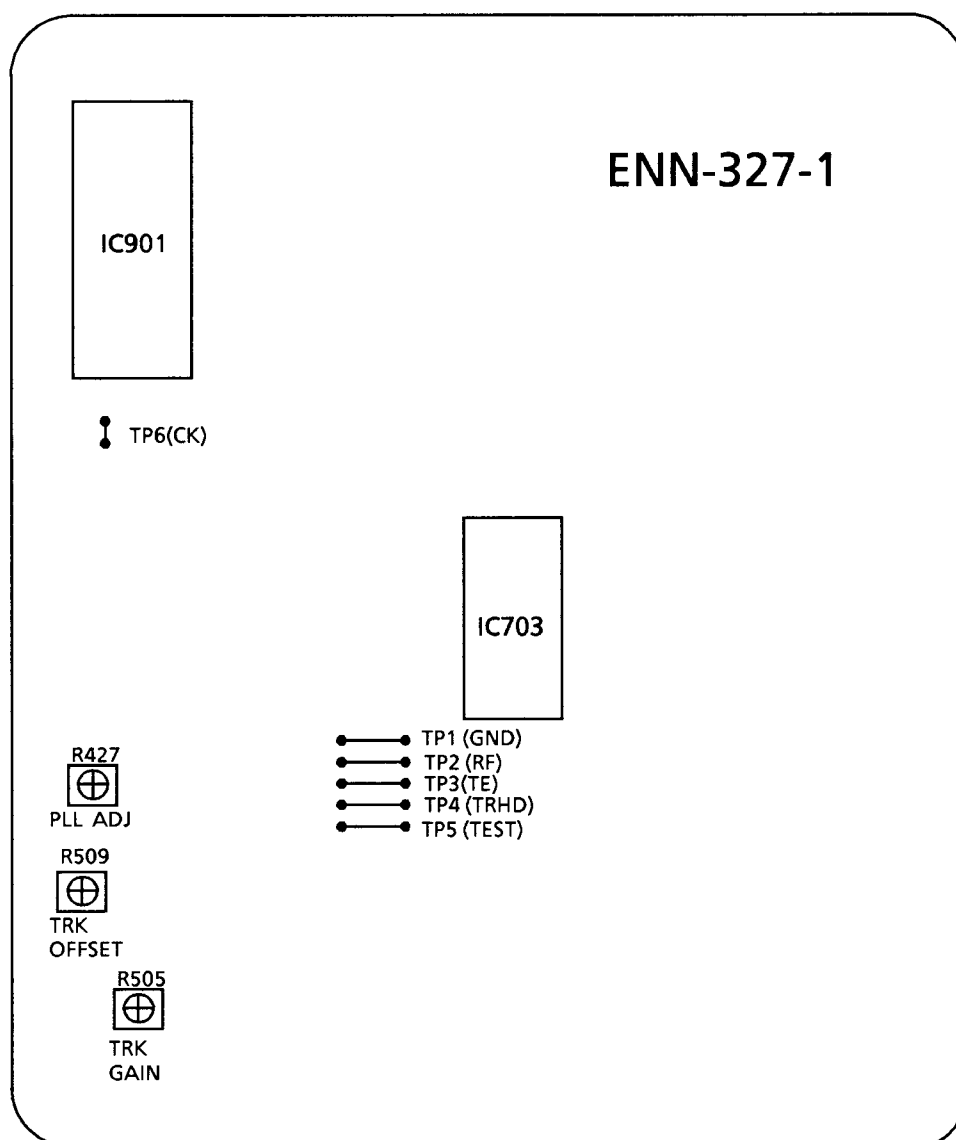


11. Mounting the spindle motor

- 1) Alternately tighten the 2 screws.
- 2) Fit the turntable by pressing gently at the centre to obtain a distance of 10.3mm ± 0.1mm from the mechanism base to the top of the turntable.



CD Adjustment Procedures



(1) PLL free-running adjustment

- a. Measuring instrument
Frequency counter
- b. Adjusting procedure
 1. Connect a frequency counter with TP6 (CK) and TP1 (GND) on the main PC board.
 2. Adjust R427 for setting the frequency counter's value becomes $4.295 \pm 0.005\text{MHz}$. (On the STOP MODE)
 3. Perform this adjustment immediately after the power is turned on.

(2) Tracking offset adjustment

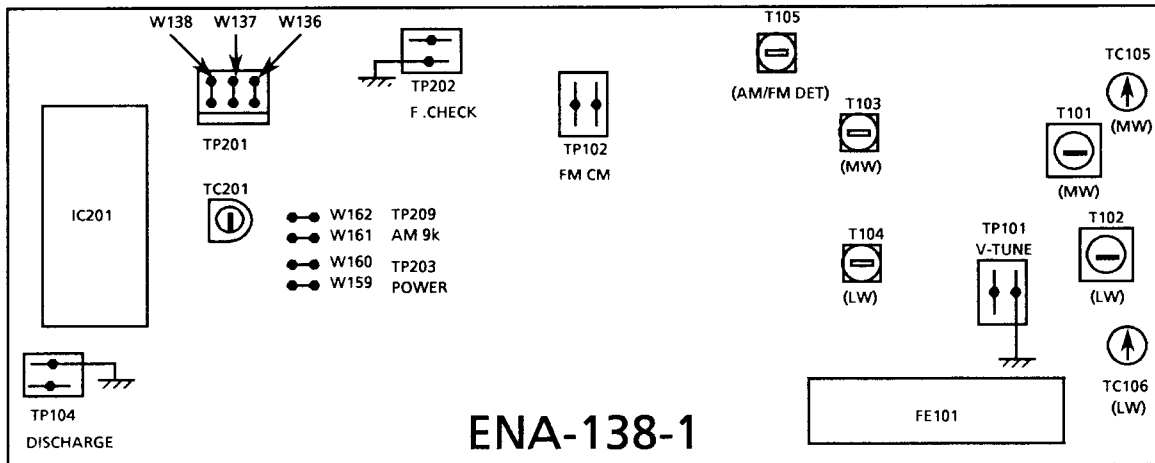
- a. Measuring instruments
Oscilloscope, Normal disc
- b. Adjusting procedure
 1. Connect an oscilloscope with TP3 (TE) and TP1 (GND) on the main PC board.
 2. Play the disc.
 3. Short circuit TP5 (TEST) to TP1 (GND).
 4. Adjust R509 for Zero DC offset of the tracking error waveform.

Note: The tracking error waveform should be symmetrical around the 0V level.

(3) Tracking gain adjustment

- a. Measuring instruments
Oscilloscope, Normal disc
- b. Adjusting procedure
 1. Connect an oscilloscope with TP3 (TE) and TP1(GND) on the main PC board.
 2. Play the disc.
 3. Short circuit TP5 (TEST) to TP1 (GND).
 4. Adjust R505 for 2.0 VP-P of tracking error signal.

FM / AM Tuner Alignment Procedures



1. FM section

■ FM oscillator

- (1) Set the frequency display to "108.0MHz".
- (2) Confirm that the FM inter-station noise is received.
- (3) Confirm that the voltage of test point "TP101" becomes $8.0 \pm 2.0V$.
- (4) Set the frequency display to "87.5MHz" and confirm the voltage of test point "TP101" becomes $1.6 \pm 1.0V$.

■ FM detector coil : T105

- (1) Connect a digital voltmeter to test point "TP 102", and receive to "100.1MHz" signal with SSG ATT 70dB.
- (2) Adjust T105 so that the digital voltmeter reads $0 \pm 1.5mV$.

2. LW section

Note : < > : Italy

■ LW oscillator : T104

- (1) Set the frequency display to 144kHz and adjust T104 so that the voltage of TP101 becomes $0.8 \pm 0.4V$ < $0.8 \pm 0.1V$ > .
- (2) Set the frequency display to 353kHz <290kHz> and confirm that the voltage of test point TP101 becomes $8.0 \pm 0.9V$ < $5.7 \pm 0.5V$ > .

■ LW antenna coil : T102

- (1) Connect a loop antenna to the "AM Loop" terminal on the rear panel.
- (2) Adjust T102 to obtain the best receiving sensitivity on 164kHz <164kHz> .

■ LW antenna trimmer : TC106

- (1) Adjust TC106 to obtain the best receiving sensitivity on 353kHz <245kHz> .

3. MW section

Note : () : Australia, the U.K. and Continental Europe
 { } : Channel space 9kHz for universal version
 [] : Channel space 10kHz for universal version

■ MW oscillator : T103

- (1) Set the frequency display to (522kHz) {531kHz} [530kHz] and confirm that the voltage of test point TP101 becomes $(0.9 \pm 0.2V)$ { $1.0 \pm 0.2V$ } [$1.0 \pm 0.2V$] .
- (2) Set the frequency display to (1629kHz) {1602kHz} [1600kHz] and confirm that the voltage of test point TP101 becomes $(7.5 \pm 0.8V)$ { $7.2 \pm 0.7V$ } [$7.2 \pm 0.7V$] .
- (3) If its voltage exceeds the allowance, adjust T103 to obtain the voltage .

■ MW antenna coil : T101

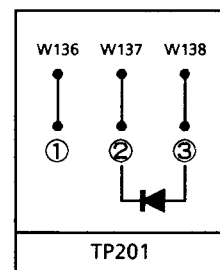
- (1) Connect a loop antenna to the "AM Loop" terminal on the rear panel.
- (2) Adjust T101 to obtain the best receiving sensitivity on 600kHz or 603kHz .

■ MW antenna trimmer : TC105

- (1) Adjust TC105 to obtain the best receiving sensitivity on 1400kHz or 1404kHz .

Clock Generator Frequency Adjustment

1. Switch OFF the DX-MX55MBK's power source, then pull out the AC plug.
2. Short circuit TP201's terminals ② and ③ with the diode as shown in the accompanying diagram, then insert the AC plug into the receptacle to switch the power ON.
3. Confirm that the tuner's FL display is off, then remove the diode and connect the frequency counter to TP 202(FREQ. CHECK).
4. Adjust TC201 so that the counter becomes $34,952.5 \pm 0.15$ Hz .



Example :
 1S5133
 1S5119
 1S2473

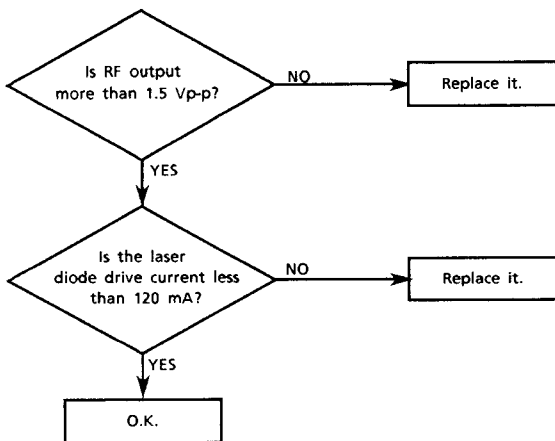
Maintenance of Laser Pickup

(1) Life of the laser diode

When the life of the laser diode has expired, the following symptoms will appear.

1. The level of RF output (EFM output: amplitude of eye pattern) will be low.
2. The drive current required by the laser diode will be increased.

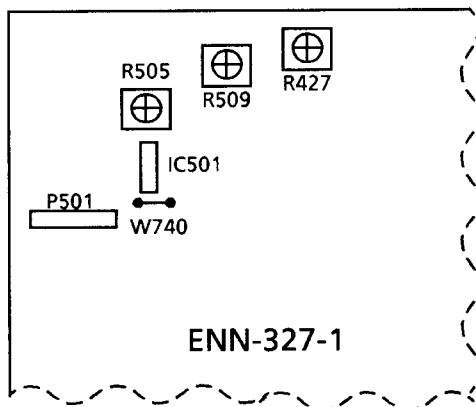
In such a case, check the life of the laser diode following the flowchart below



(2) Measurement of laser diode drive current

Replace the jump wire (W740) shown below with the resistor (1Ω).

Measure the voltage across the resistor with a milli-voltmeter. When the voltage is more than 120mV, it shows that the life of the laser diode has expired



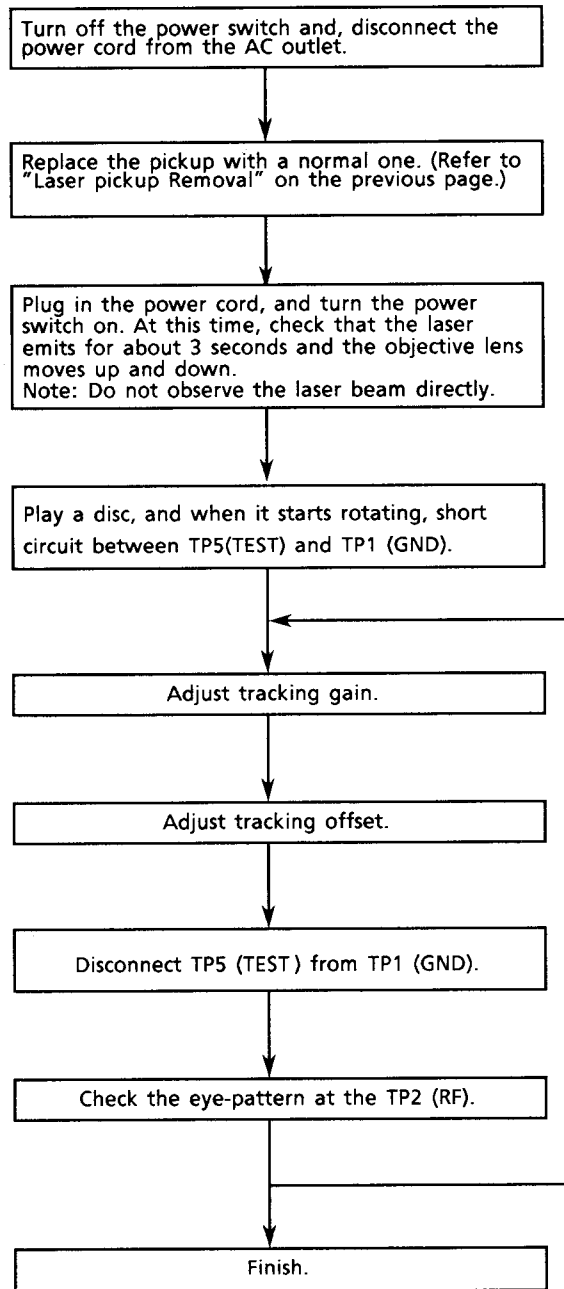
(3) Semi-fixed resistor on the APC PC board

The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power. Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.

If the laser power is lower than the specified value, the laser diode is almost worn out, and the laser pickup should be replaced.

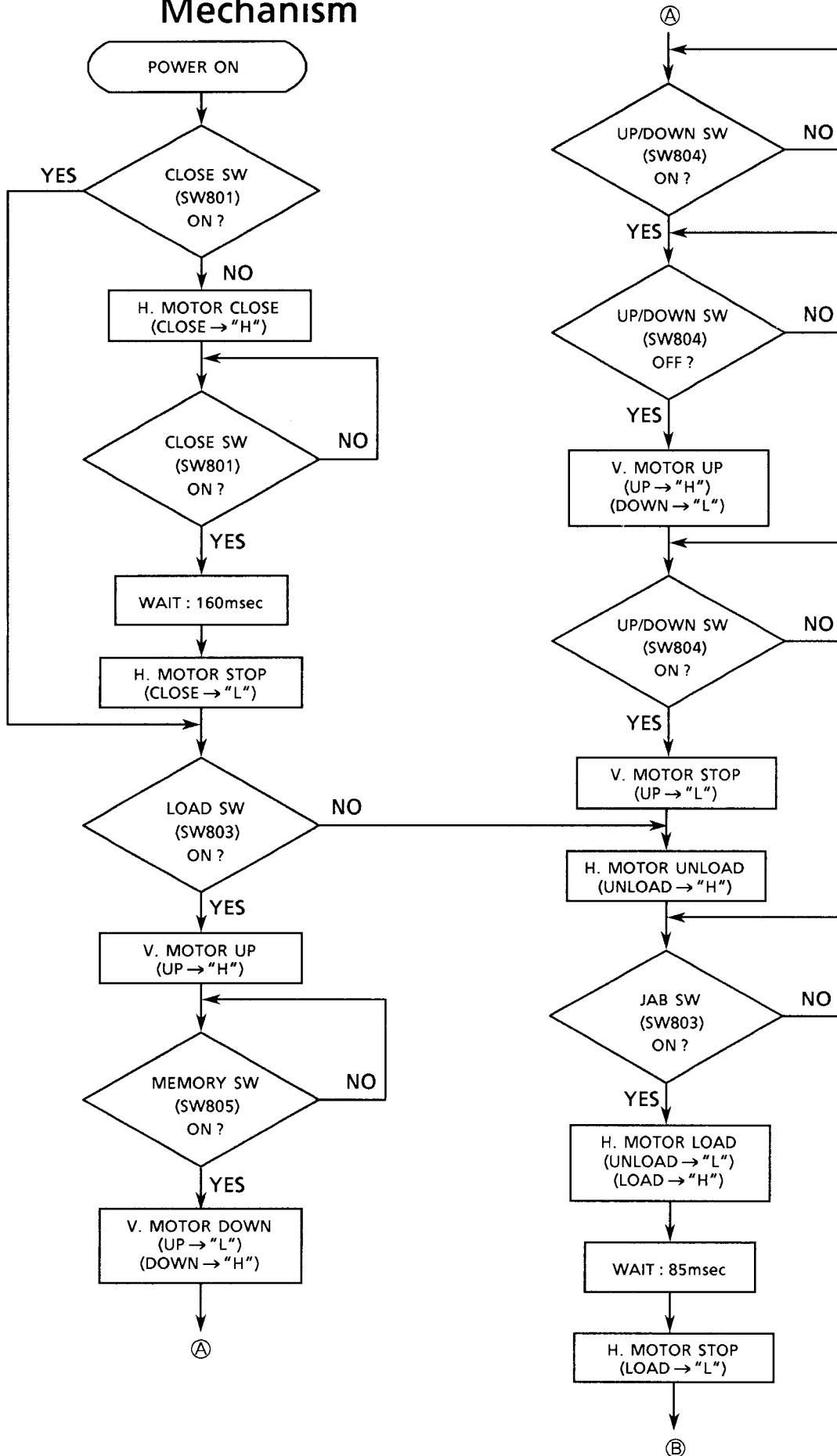
If the semi-fixed resistor is adjusted while the pickup is functioning normally, the laser pickup may be damaged due to excessive current.

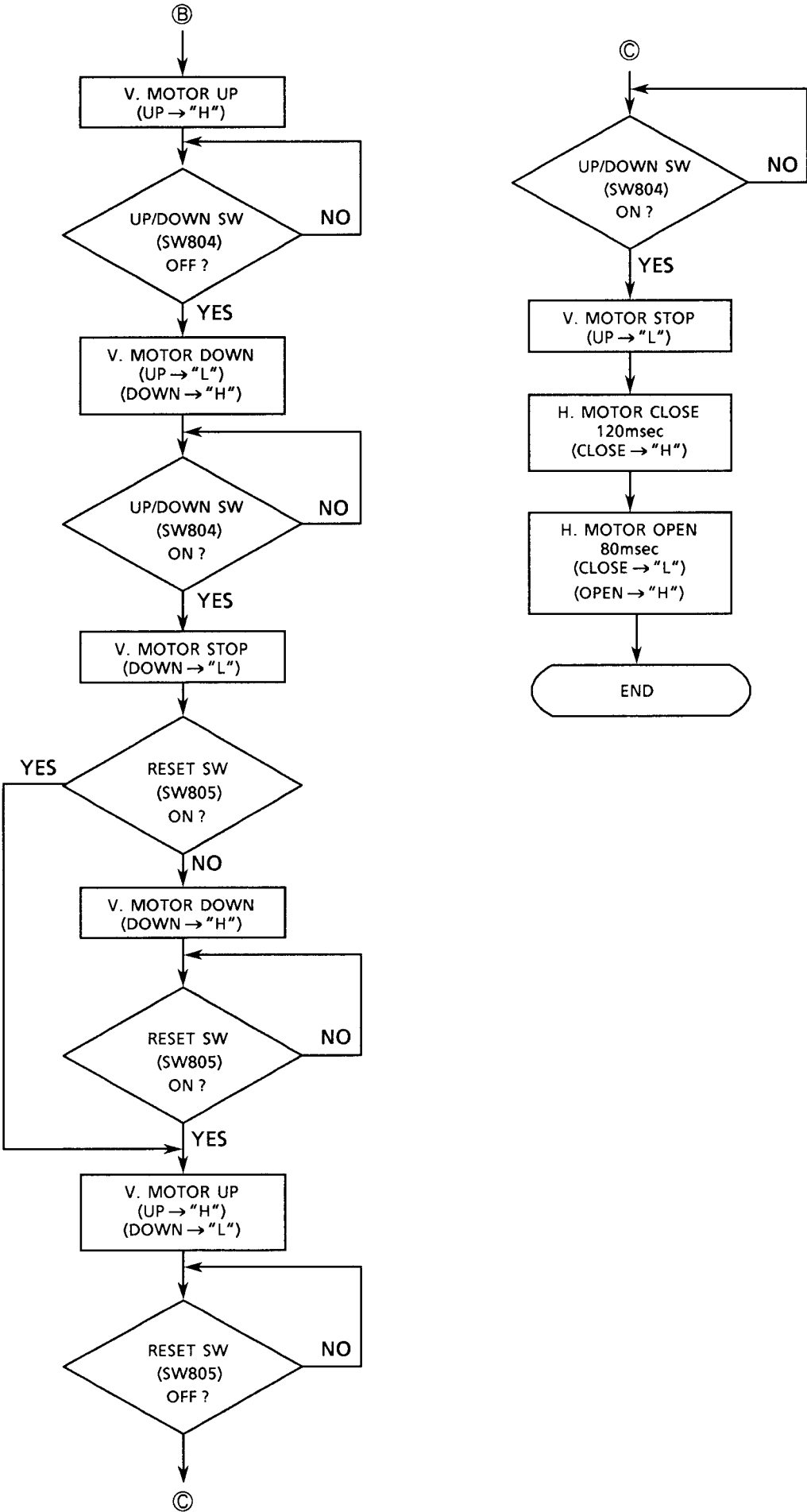
Replacement of Laser Pickup



Note: Since one adjustment may affect other settings, repeat these adjustments a few times.

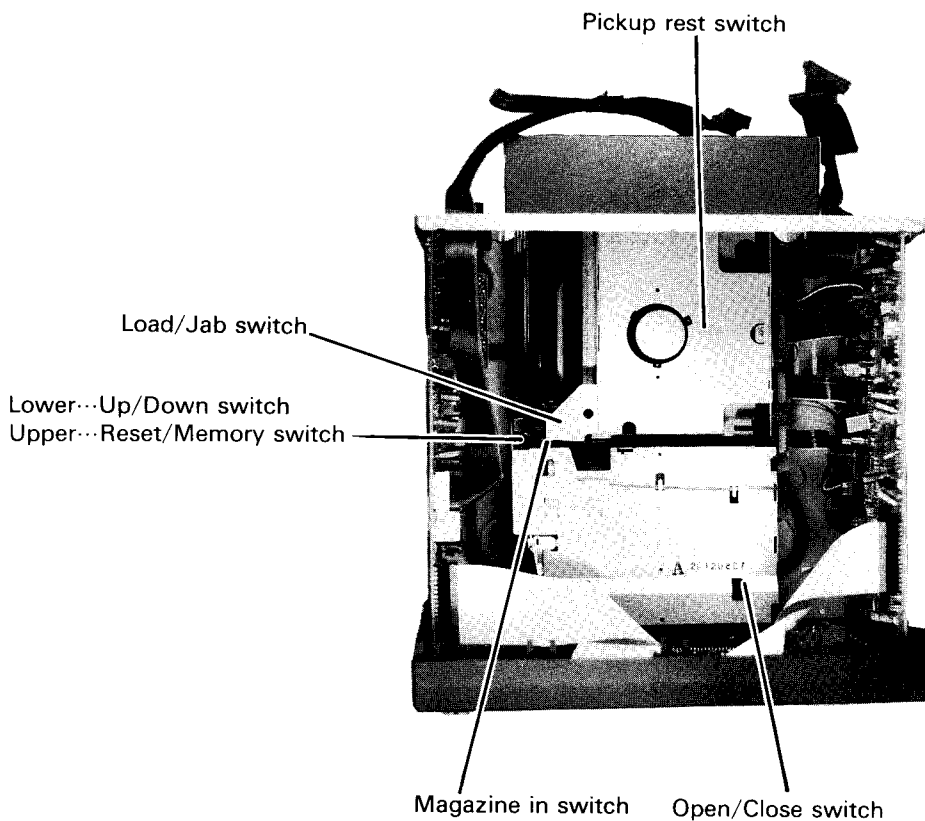
Initial Operation of Mechanism



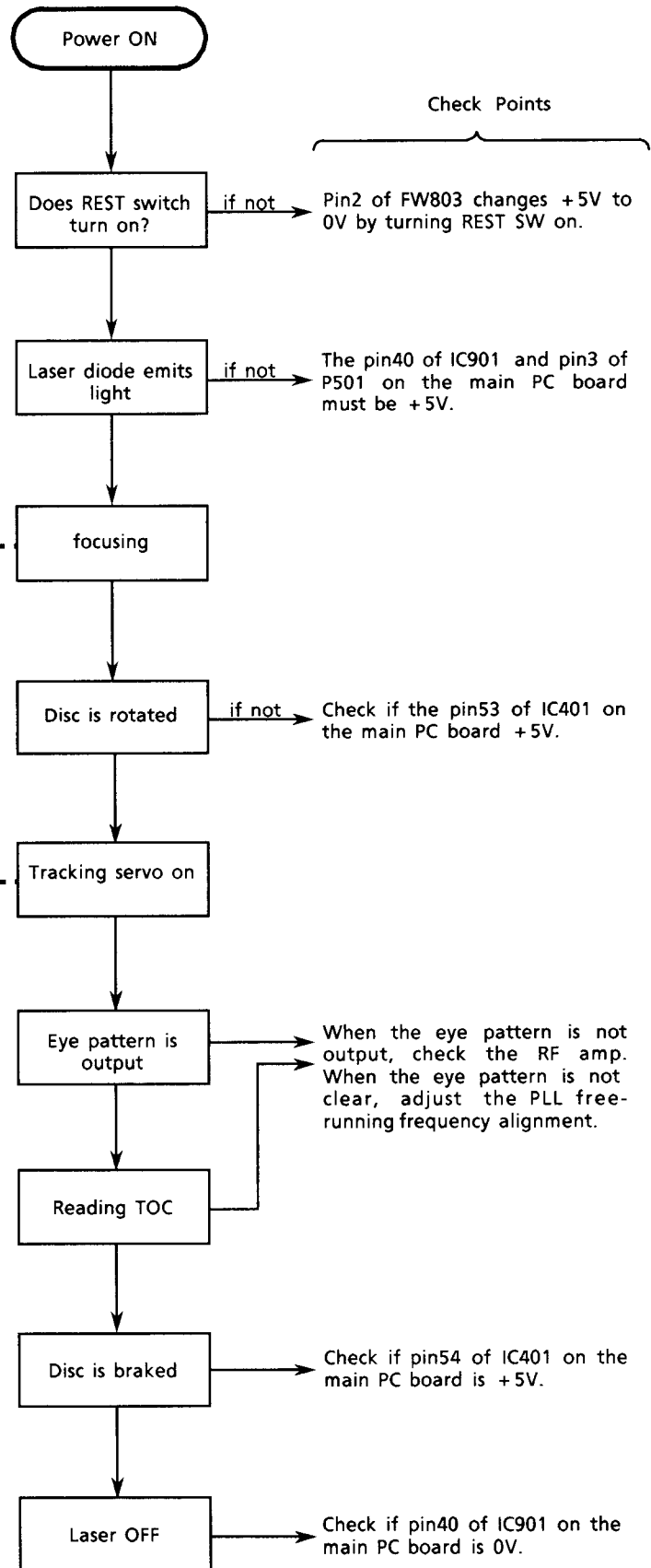
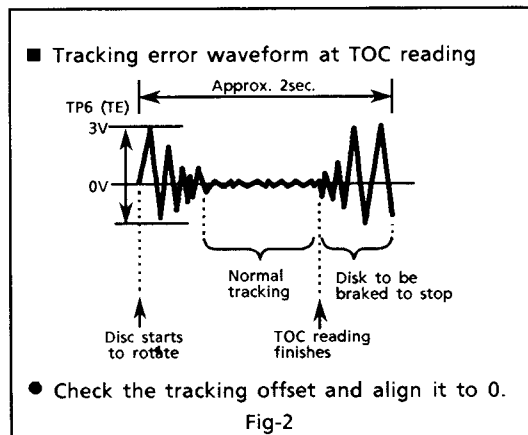
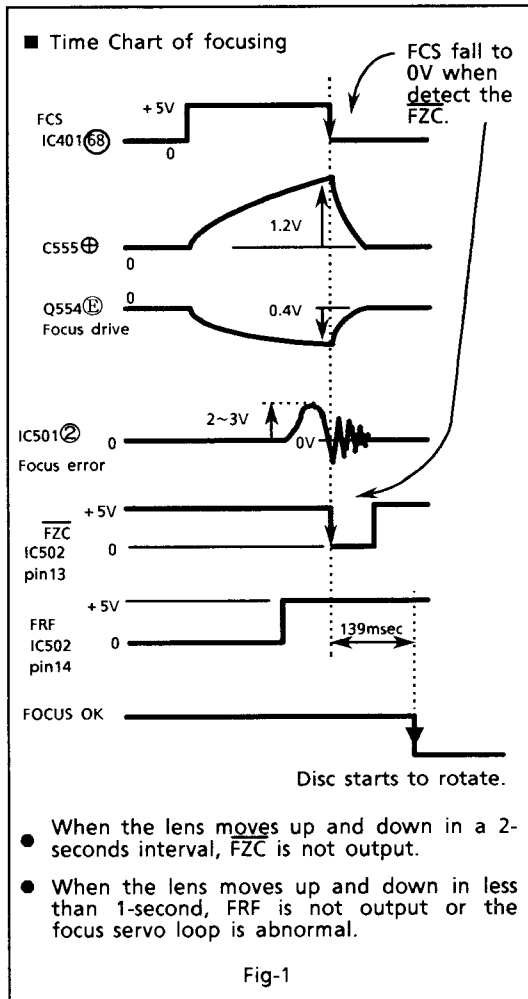


Operation check by each switch.

- SW802 : Magazine in switch.
When a magazine is inserted, the switch is turned on.
- SW803 : JAB switch.
When drive plate comes toward, the switch is turned on. (The switch is turned on momentarily.)
- SW803 : Tray load switch.
When the tray of a disc is loaded, the switch is turned on.
- SW804 : UP/DOWN switch.
When the mechanism goes up or down, this sw turns on and off alternately.
- SW805 : Reset switch.
When the mechanism comes to the point under the initial position, the switch is turned on.
- SW805 : Memory switch.
When the power is off in playing a disc, and on again, the switch detect which height the tray should be returned.
- SW807 : Pickup rest switch.
When pickup comes to the initial position, the switch is turned on.

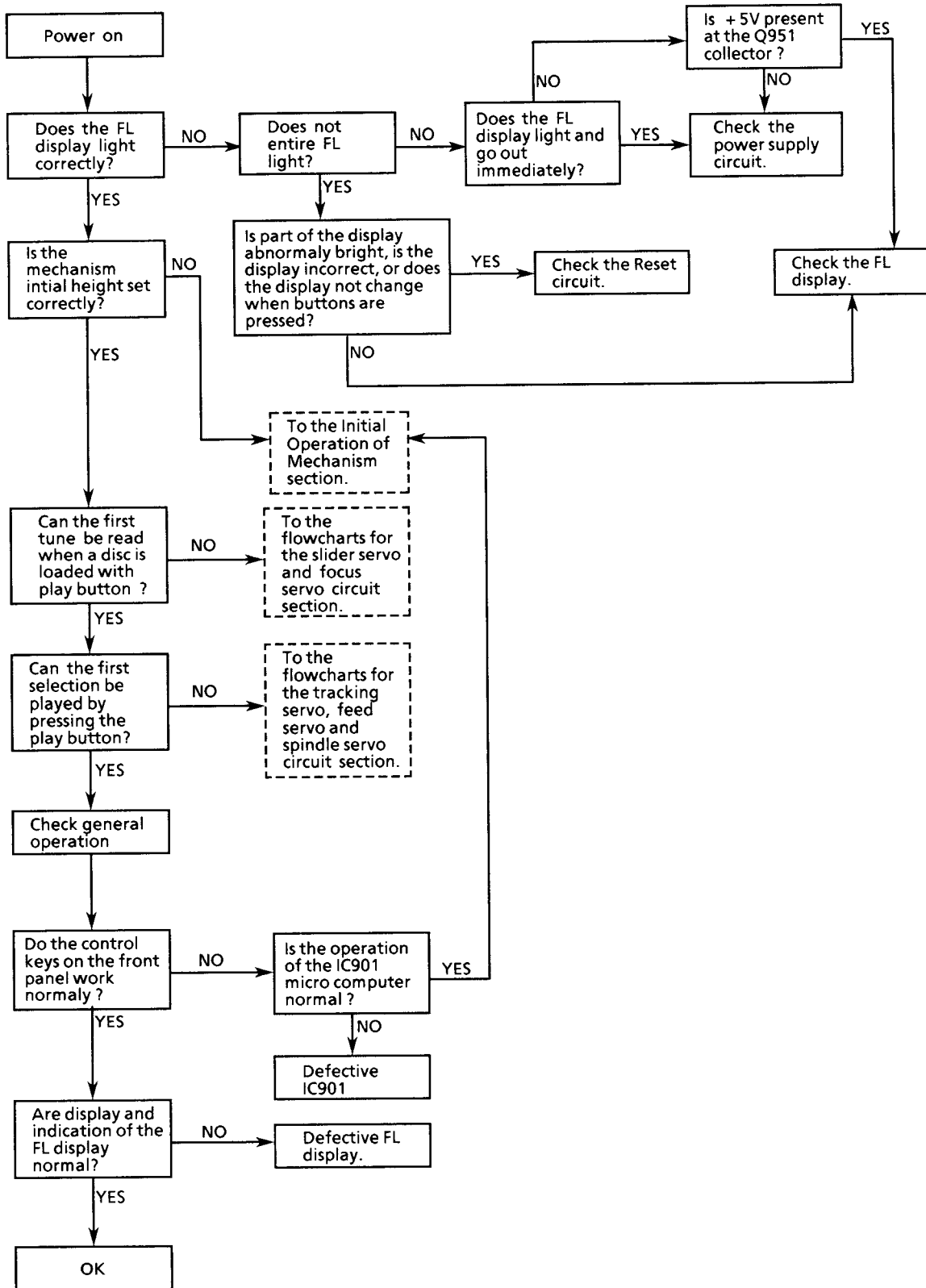


Flow of Functional Operation Until TOC is Read

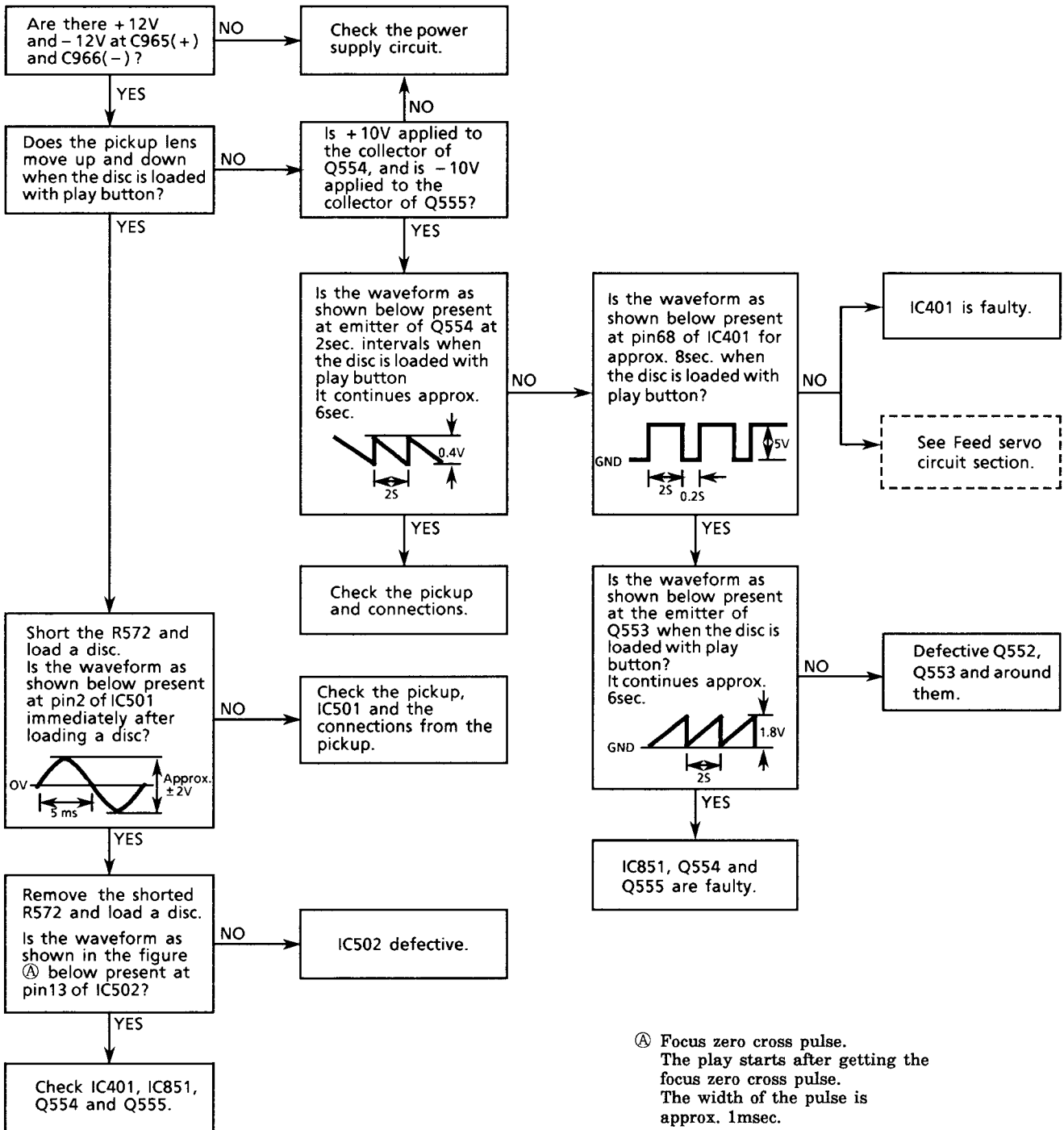


Troubleshooting

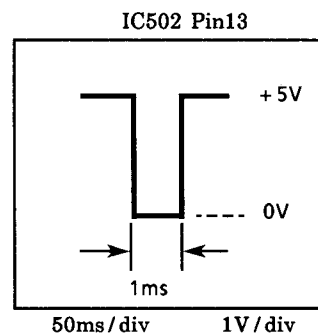
The following flowchart shows each circuit's condition about from "power on" until "ready to play".



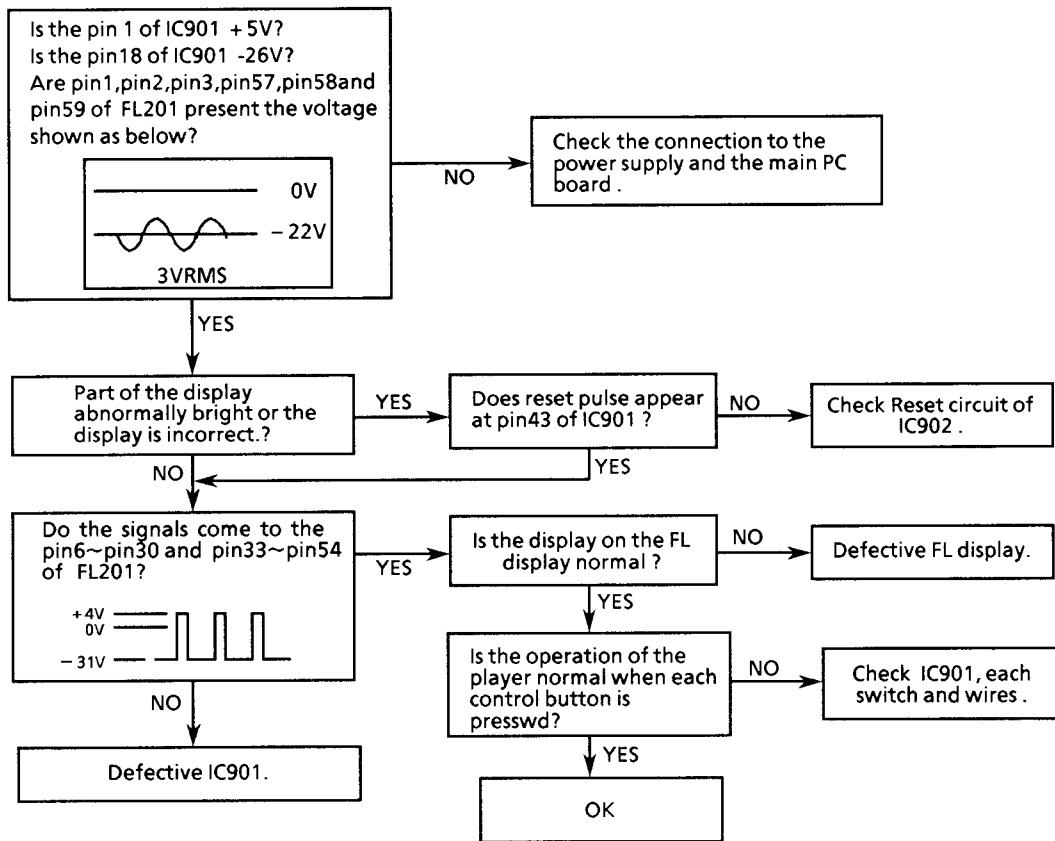
Focus servo circuit section



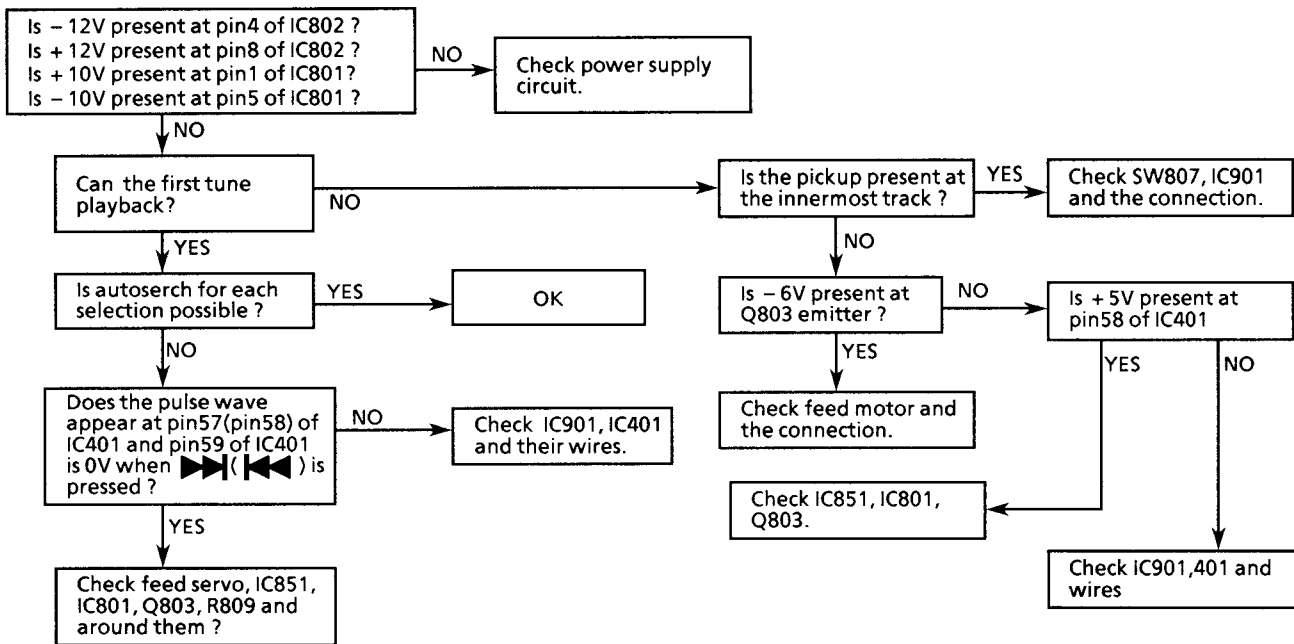
A Focus zero cross pulse.
 The play starts after getting the focus zero cross pulse.
 The width of the pulse is approx. 1msec.



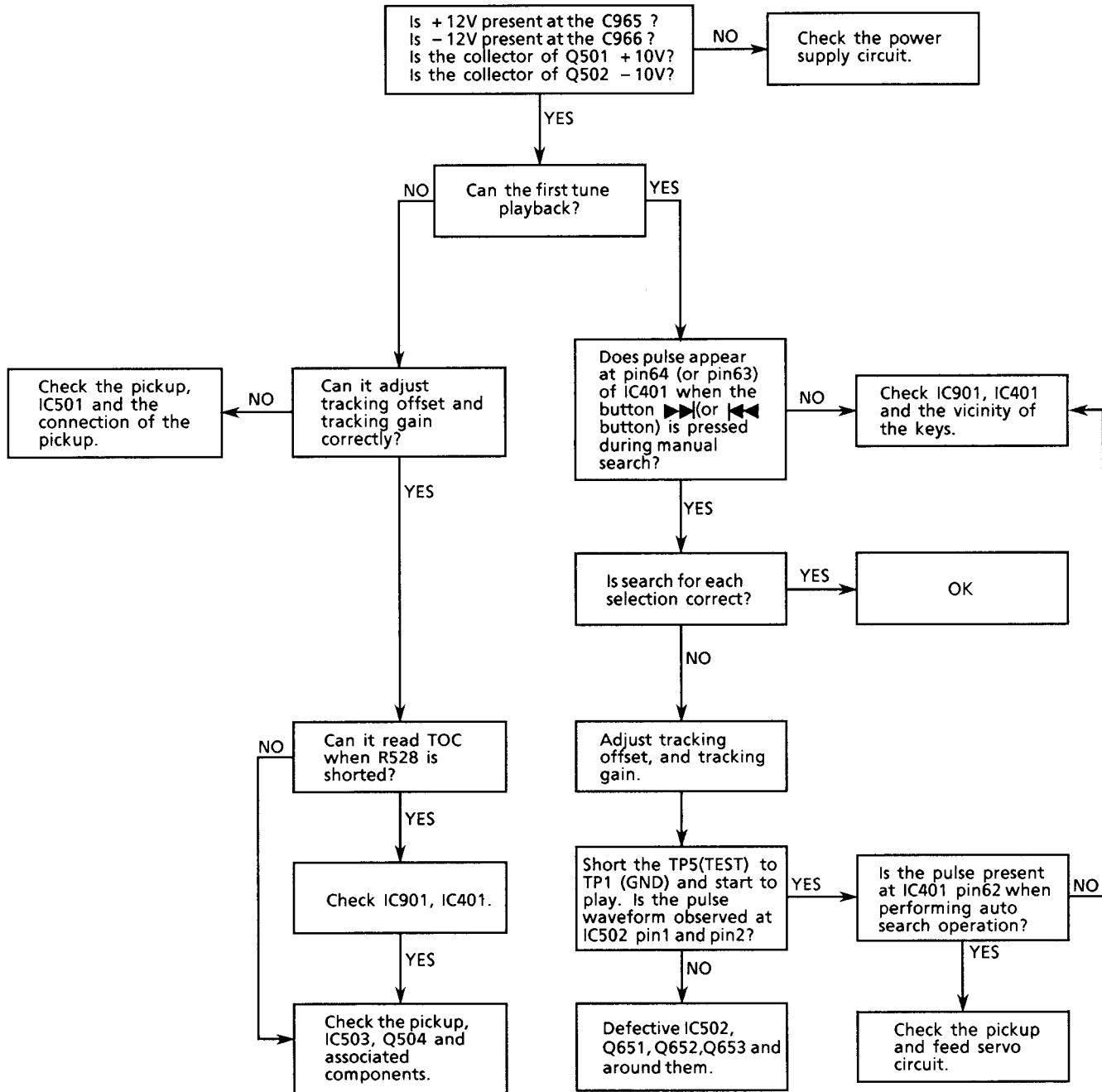
Front circuit Section



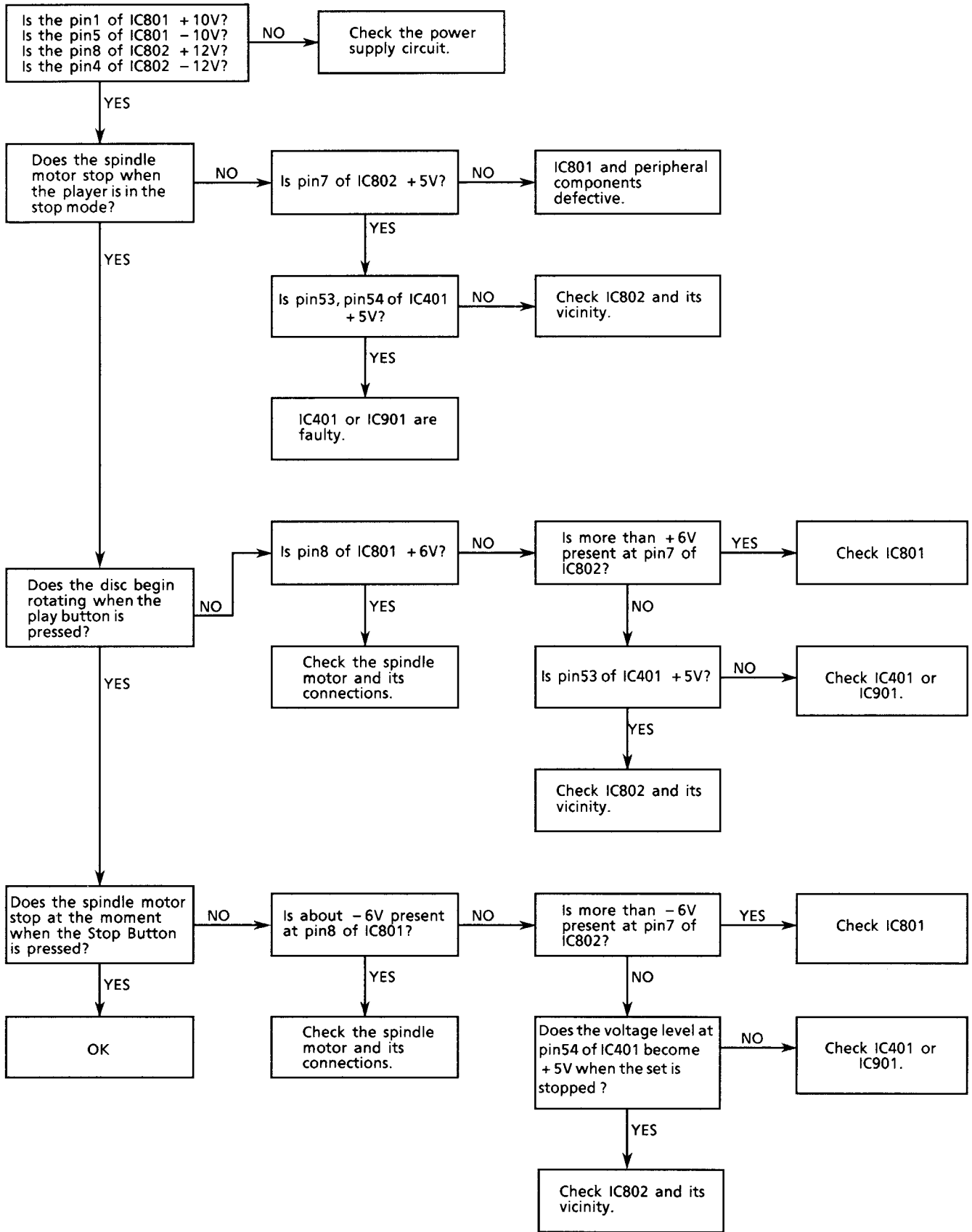
Feed servo circuit section



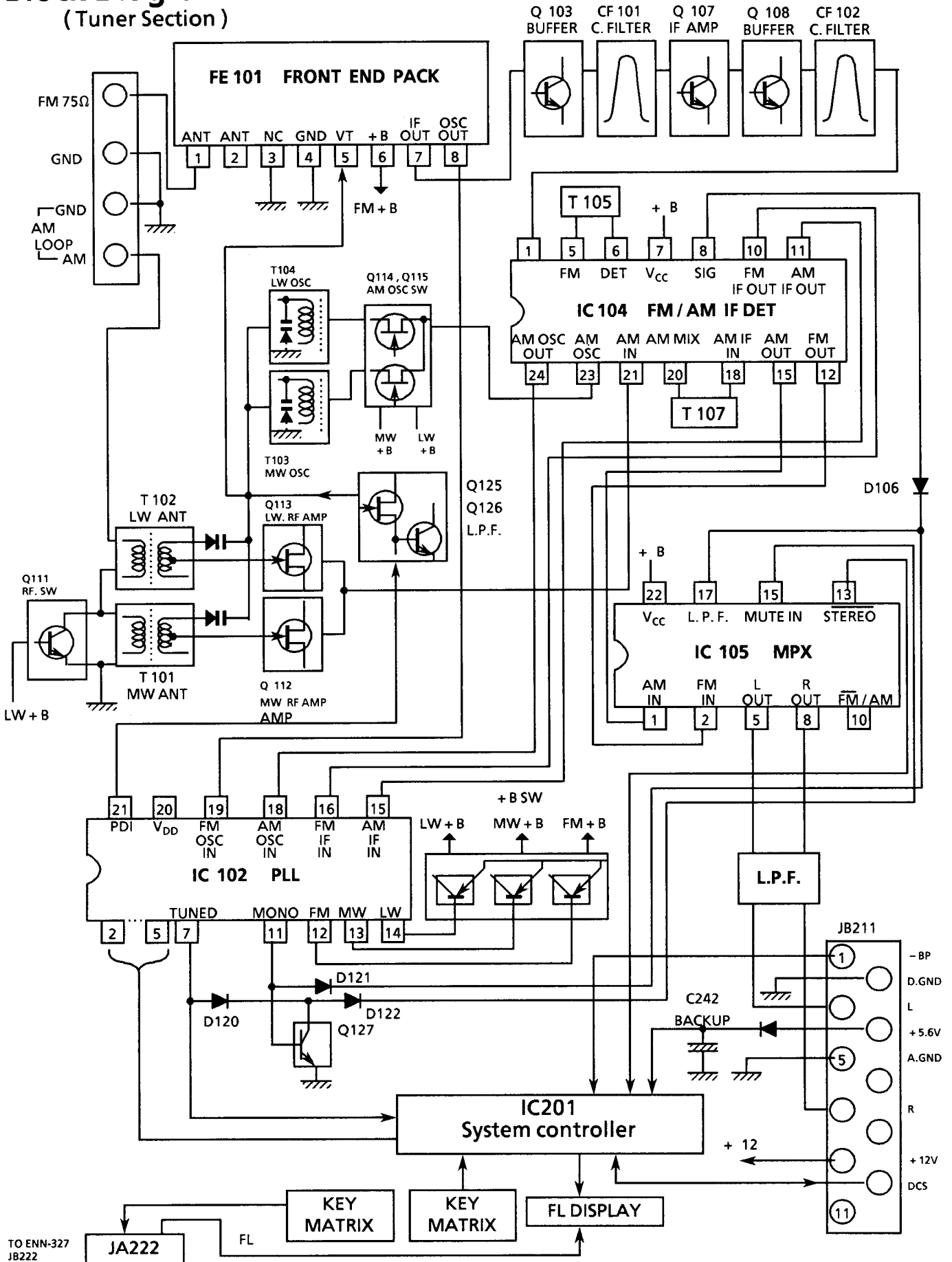
Tracking servo circuit section



Spindle servo circuit section

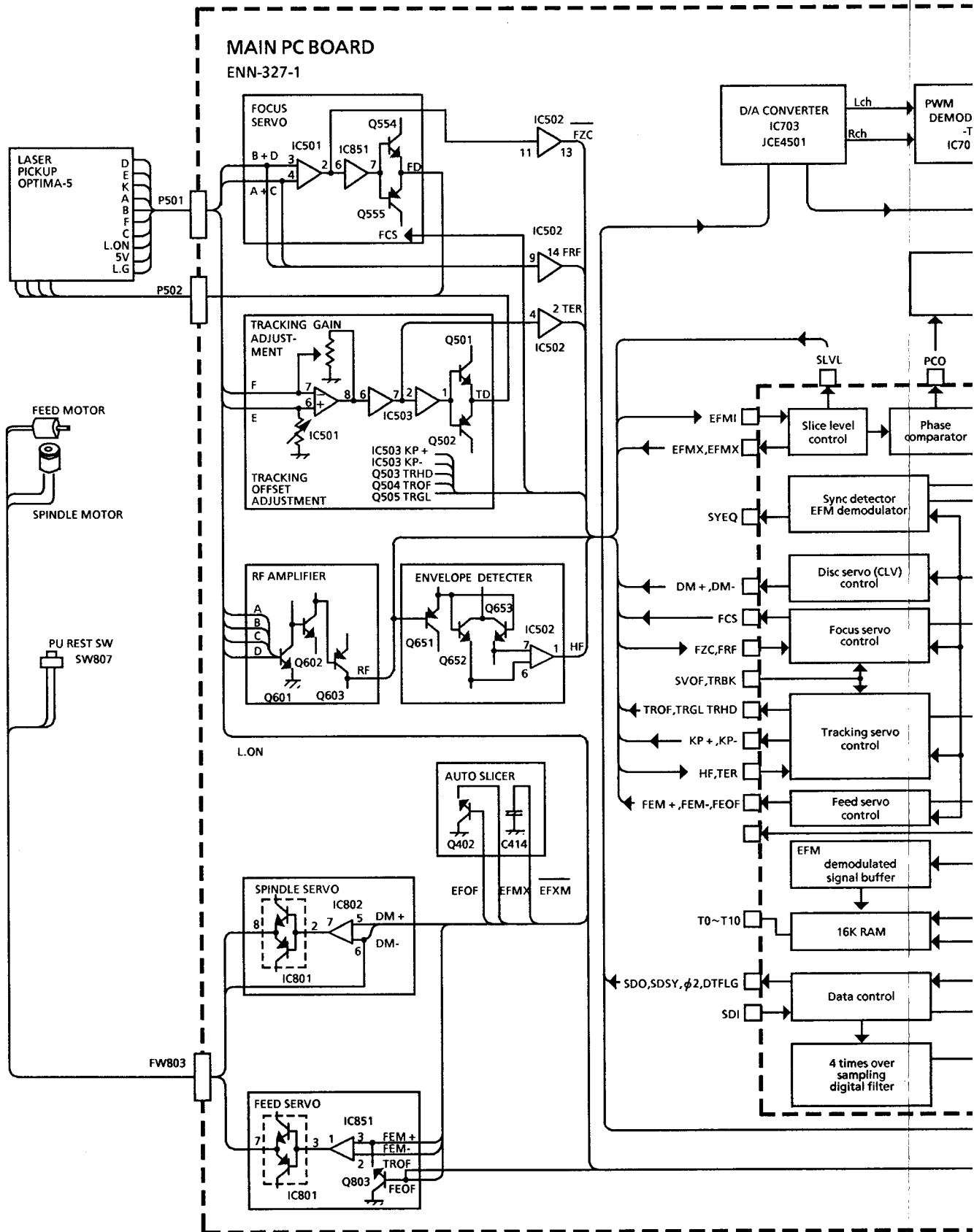


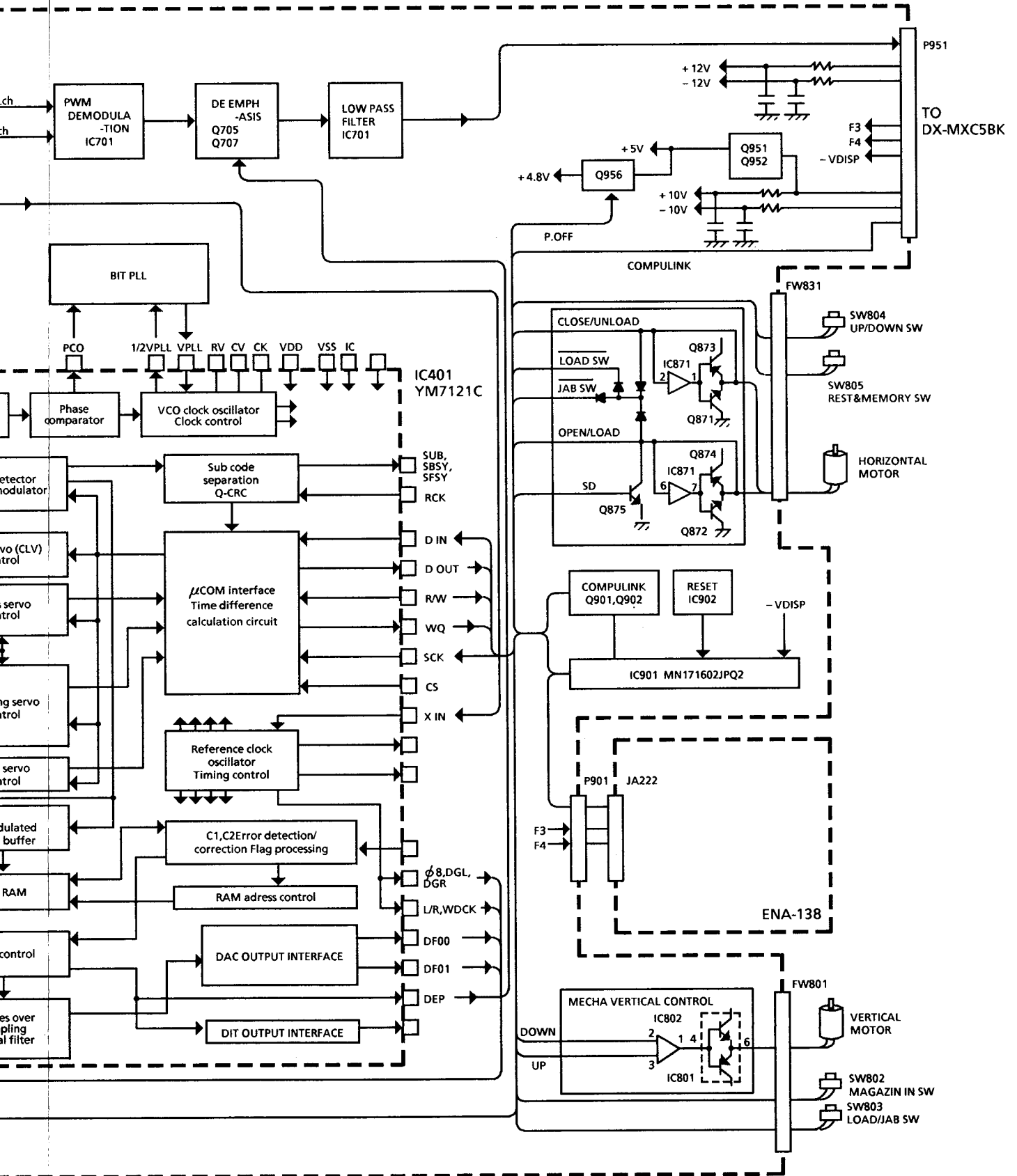
Block Diagram (Tuner Section)



TO ENN-327
JB222

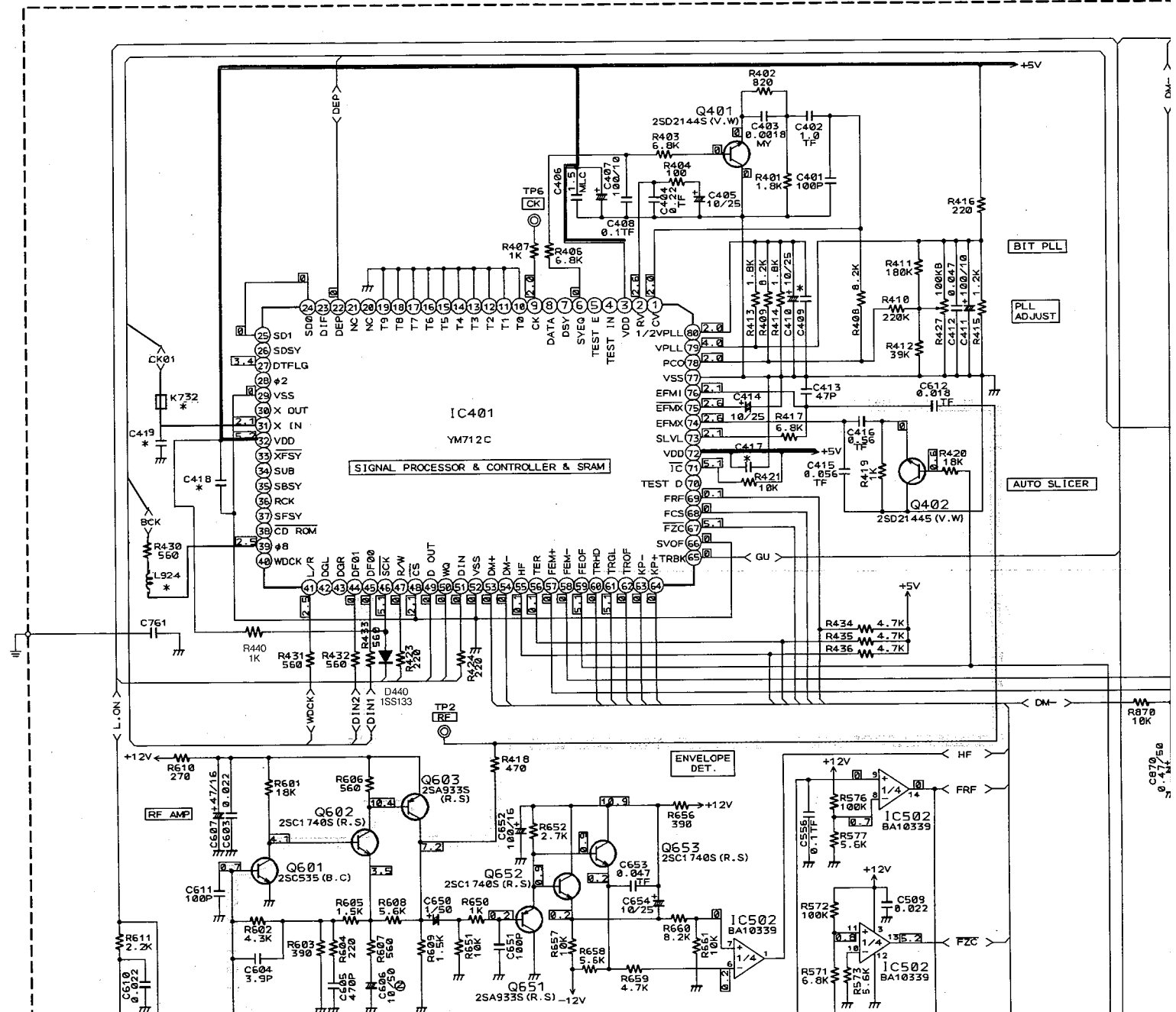
D
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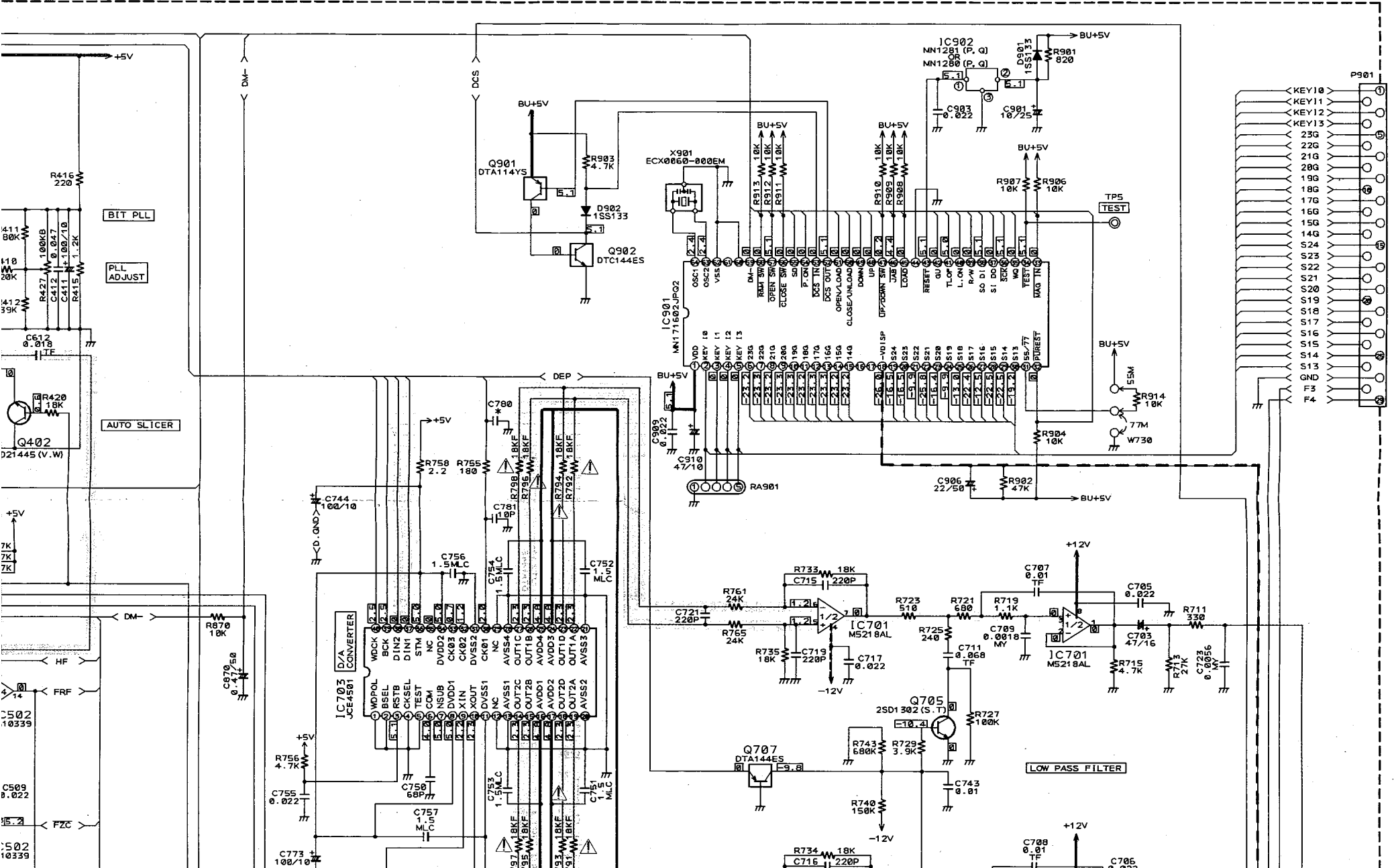


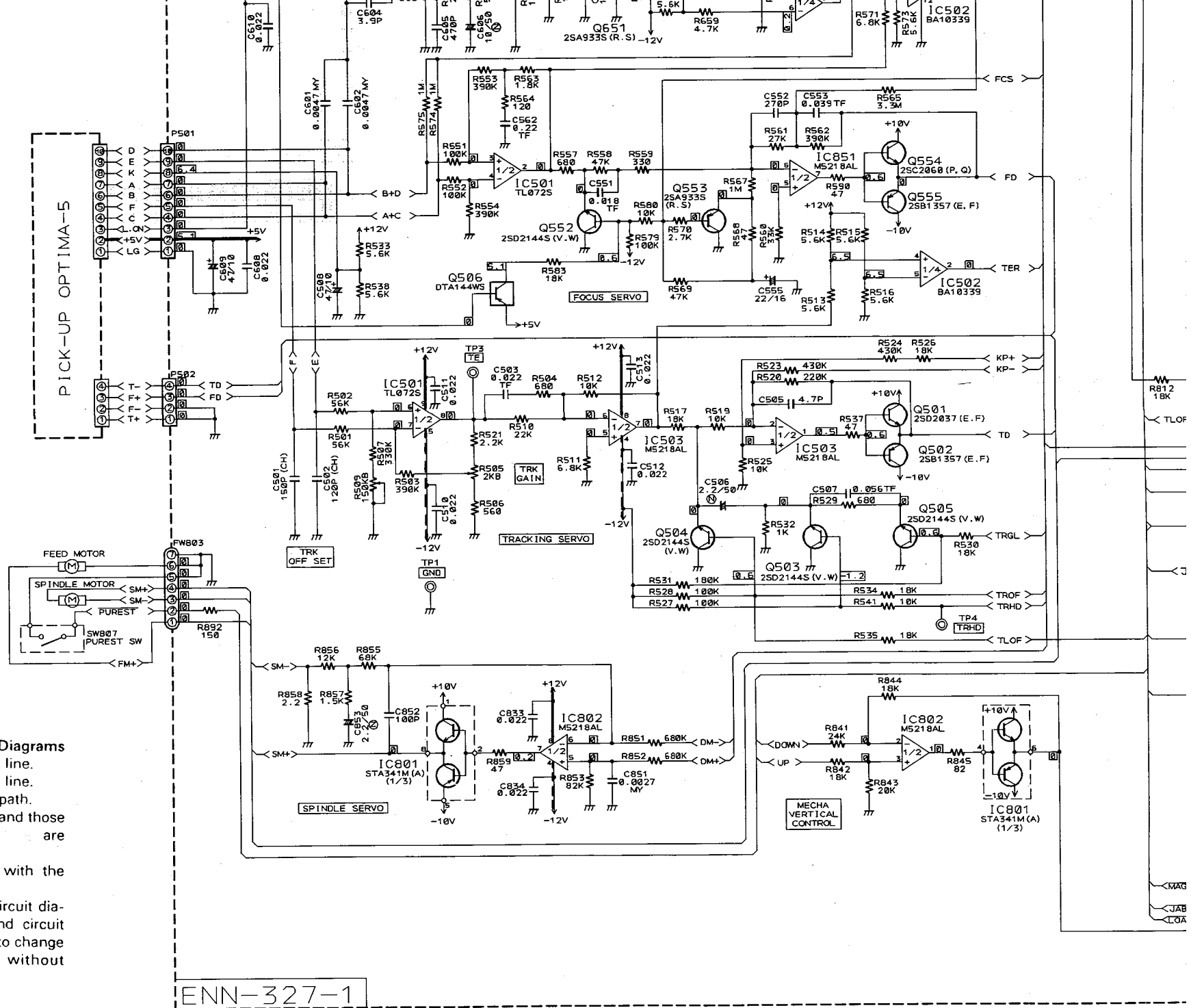


SCHEMATIC DIAGRAM

CD Section



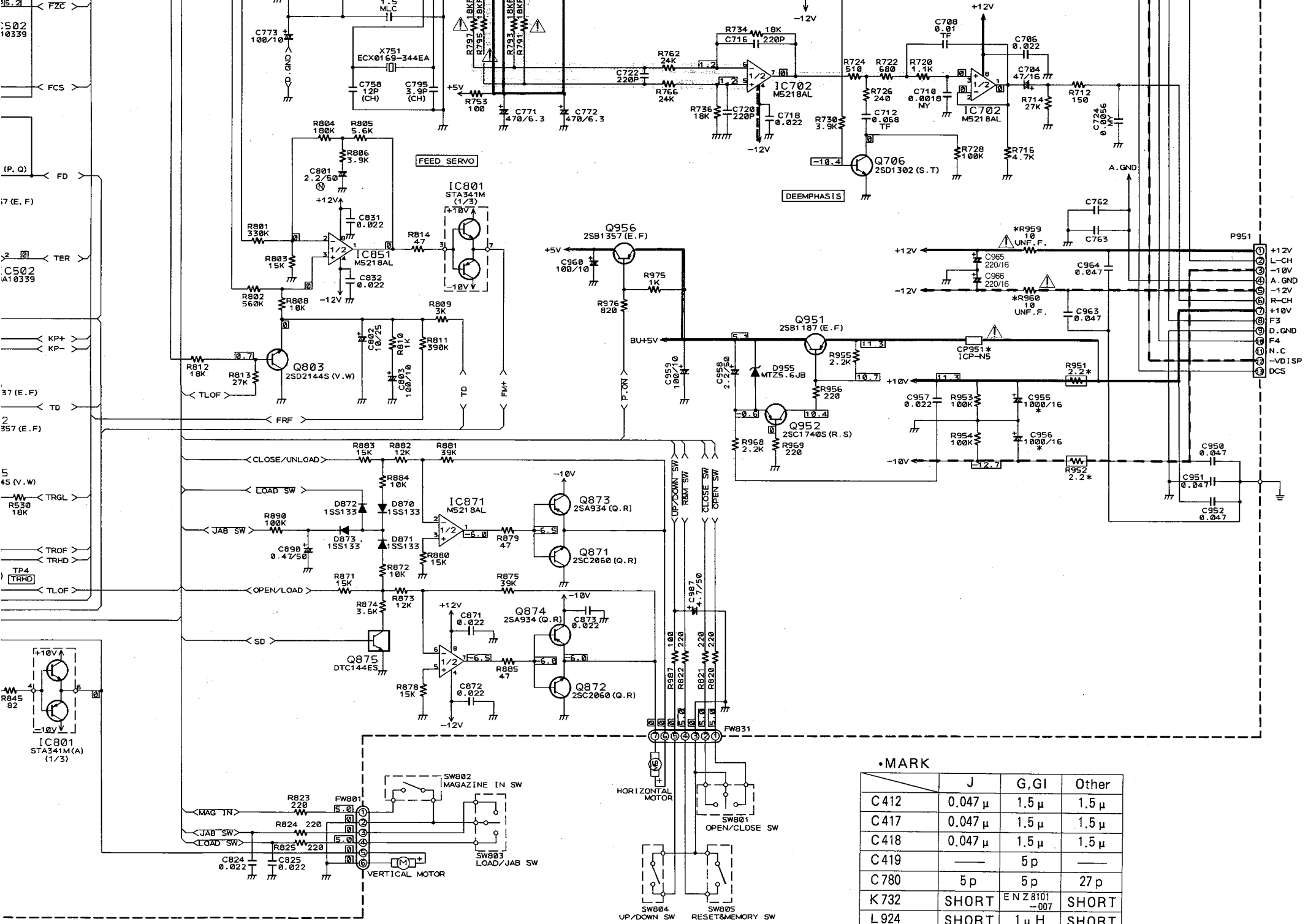




How to Use Schematic Diagrams

1. ——— indicates the +B line.
2. - - - - indicates the -B line.
3. ——— indicates signal path.
4. Parts marked with Δ and those in the shaded area are parts for safety. Be sure to use one with the specified part number.
5. This is the standard circuit diagram. The circuits and circuit constants are subject to change for improvement without notice.

ENN-327-1



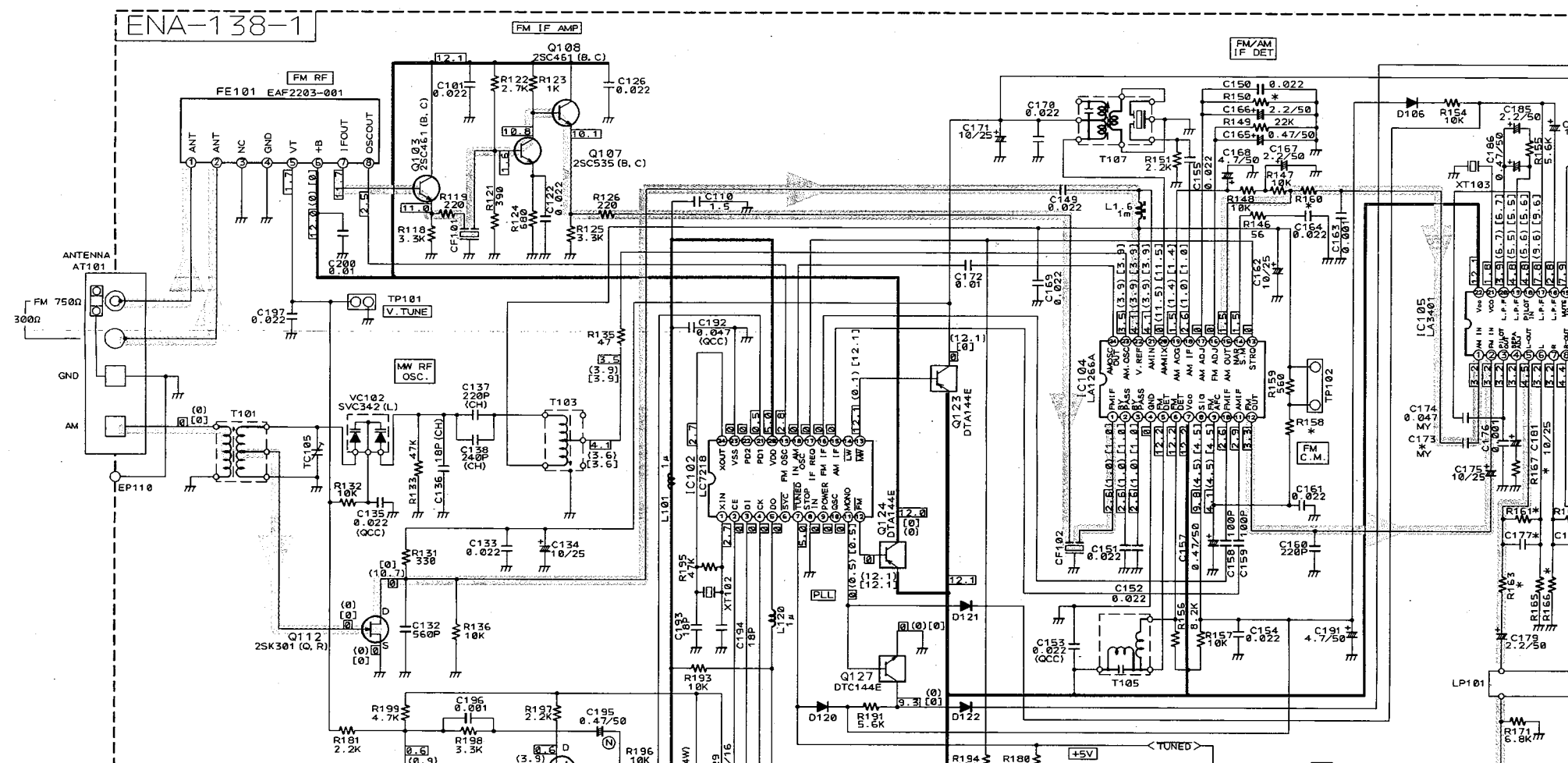
*MARK

| | J | G, GI | Other |
|-------|-------------|------------------------------|-----------|
| C 412 | 0.047 μ | 1.5 μ | 1.5 μ |
| C 417 | 0.047 μ | 1.5 μ | 1.5 μ |
| C 418 | 0.047 μ | 1.5 μ | 1.5 μ |
| C 419 | — | 5 p | — |
| C 780 | 5 p | 5 p | 27 p |
| K 732 | SHORT | ^{EN Z 8101} -007 | SHORT |
| L 924 | SHORT | 1 μ H | SHORT |
| CP951 | SHORT | ICP-N5 | ICP-N5 |

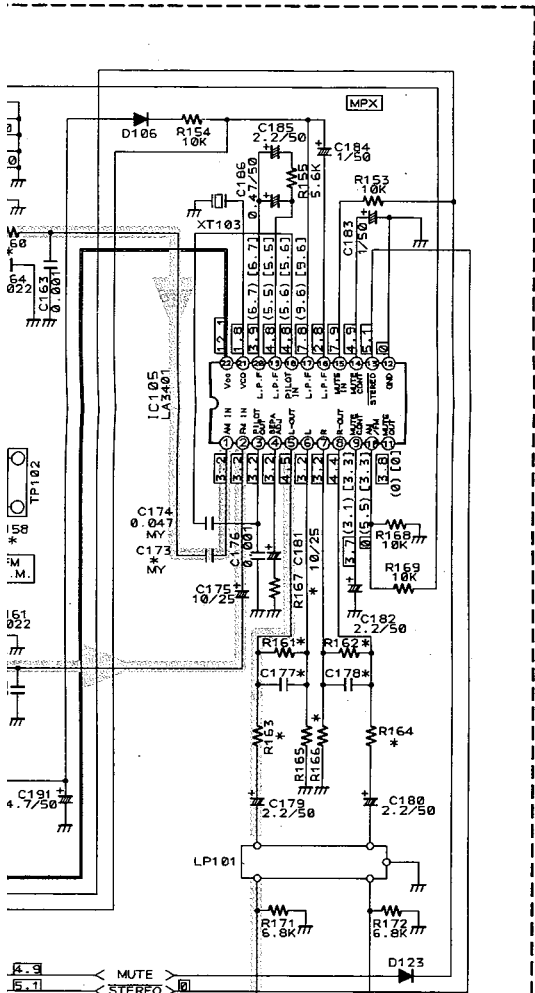
Tuner Section

A B C D E F G H I J K

1
2
3
4
5
6



J | K | L | M | N | O | P | Q | R | S



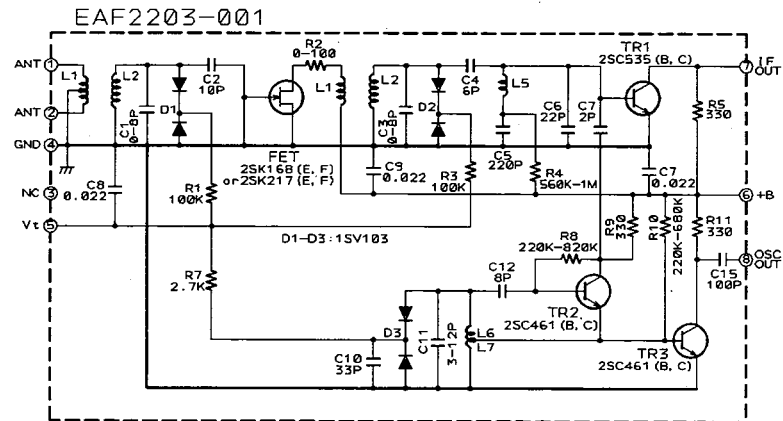
* MARK

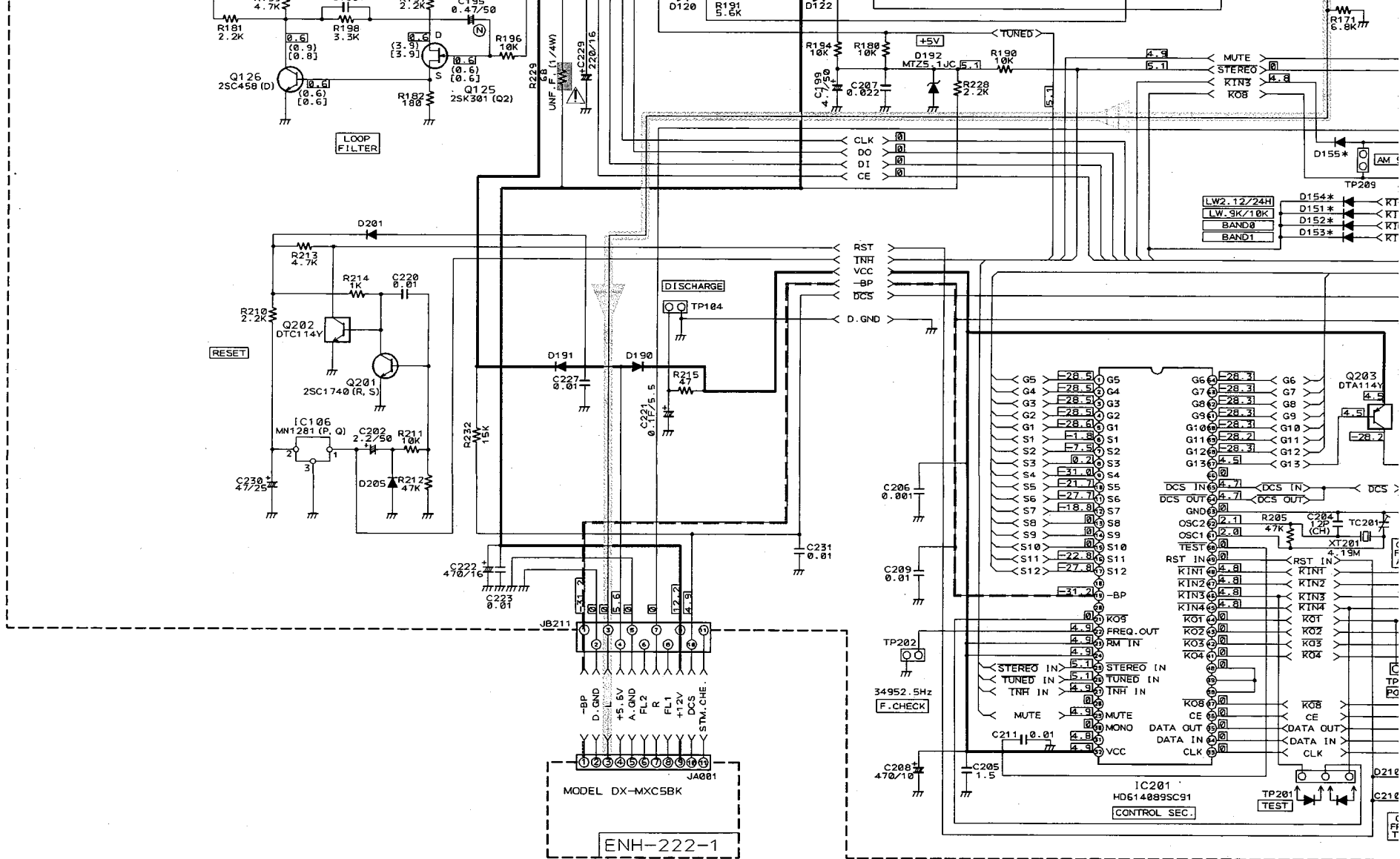
| | J. C | U | A |
|-----------|-------|-------|-------|
| R158 | 18K | 27K | 27K |
| R160 | 5.6K | 5.6K | 10K |
| R161, 162 | 82K | 82K | 100K |
| R163, 164 | 4.7K | 4.7K | 3.3K |
| R165, 166 | 180K | 180K | 270K |
| R167 | 39K | 39K | 47K |
| C173 | 0.039 | 0.039 | 0.022 |
| C177, 178 | 820P | 820P | 560P |
| S151 | NONE | USED | NONE |
| D151 | NONE | NONE | USED |
| D152 | USED | NONE | NONE |
| D153 | NONE | USED | NONE |
| D154 | USED | NONE | NONE |
| D155 | NONE | USED | NONE |

NO MARK DIODES ARE 1SS133

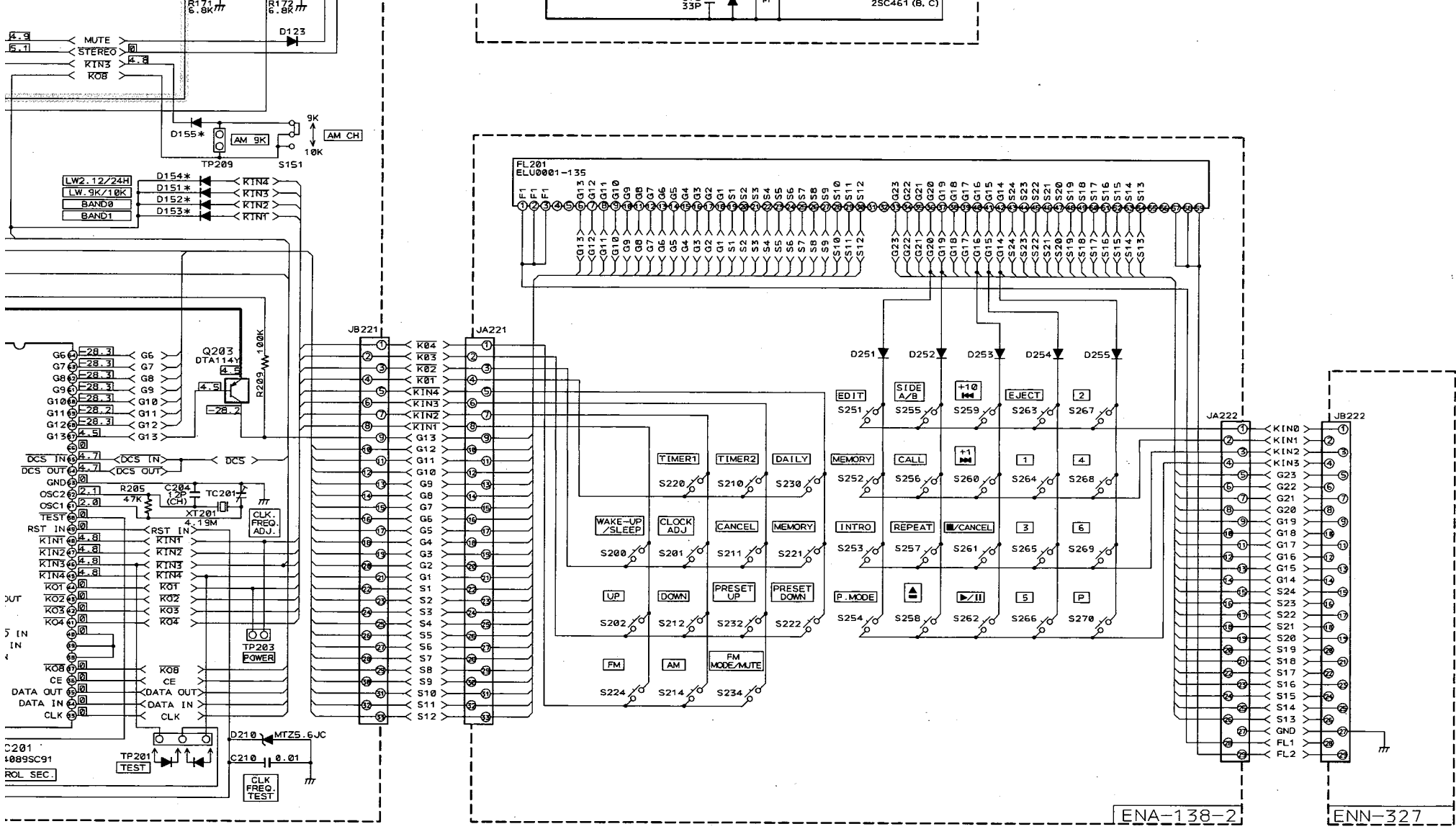
□ FM AUTO. NO SIGNAL (87.5MHZ)

() MW NO SIGNAL (522KHZ)





7
8
9
10
11
12
13
14



■ Tuner Section

A B C D E F G H I J

1

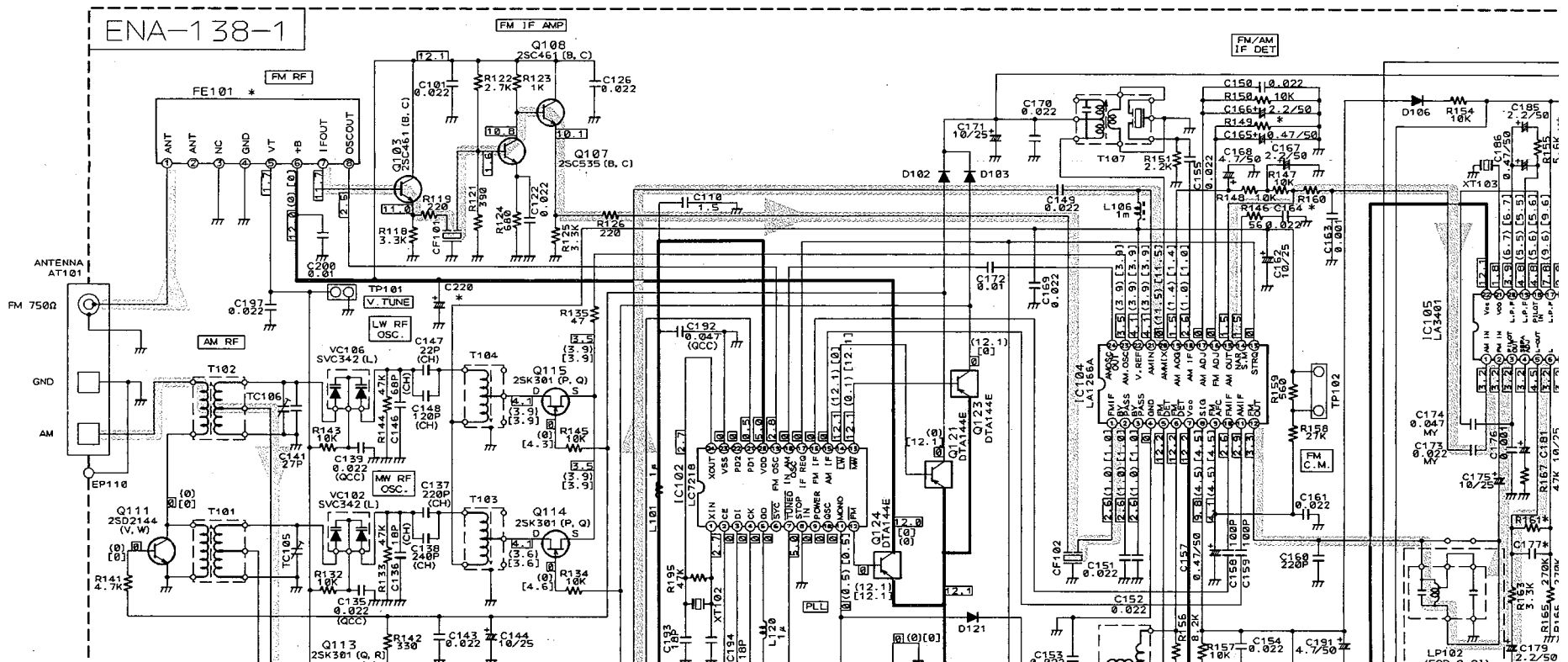
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3

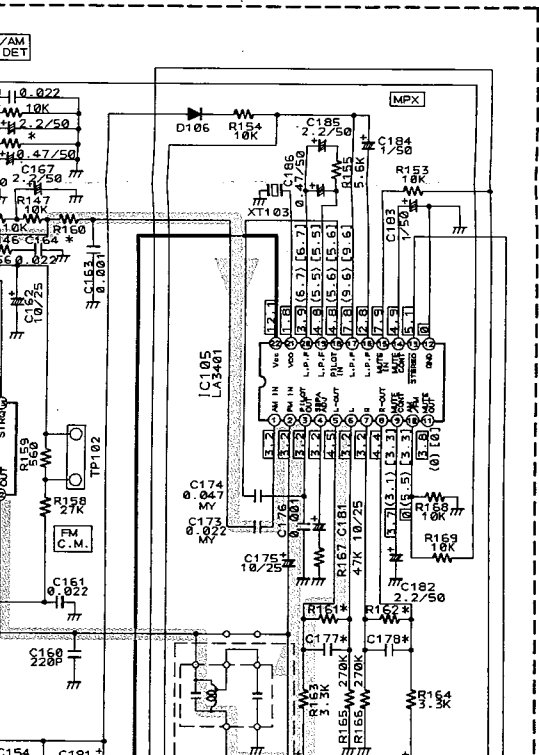
4

5

6



I J K L M N O P Q R S

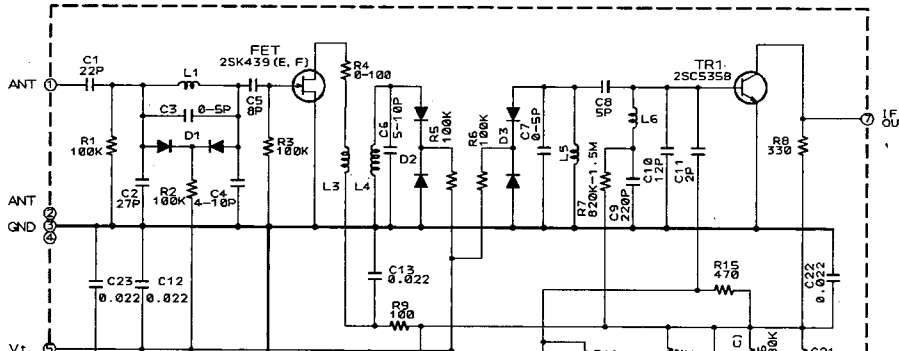


* MARK

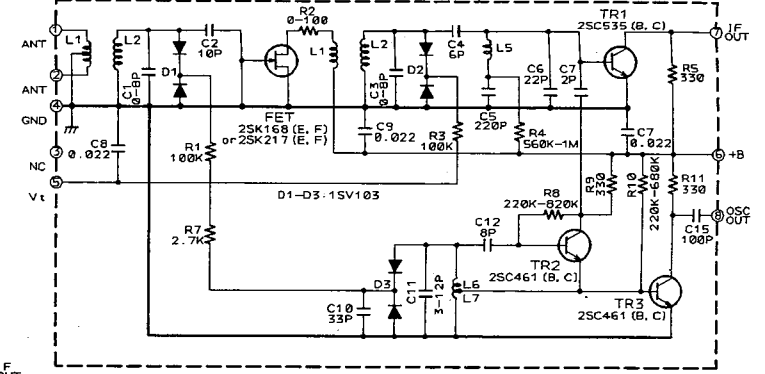
| | E, EF | G, GI | BS |
|-----------|-------|-----------|------|
| R160 | 10K | 10K | 1K |
| R161, 162 | 100K | 100K | 68K |
| C177, 178 | 560P | 560P | 820P |
| D151 | NONE | NONE | NONE |
| D152 | NONE | NONE | NONE |
| D153 | NONE | NONE | NONE |
| D154 | NONE | USED (GI) | NONE |
| R149 | 22K | 27K | 22K |
| C220 | NONE | 470/50 | NONE |

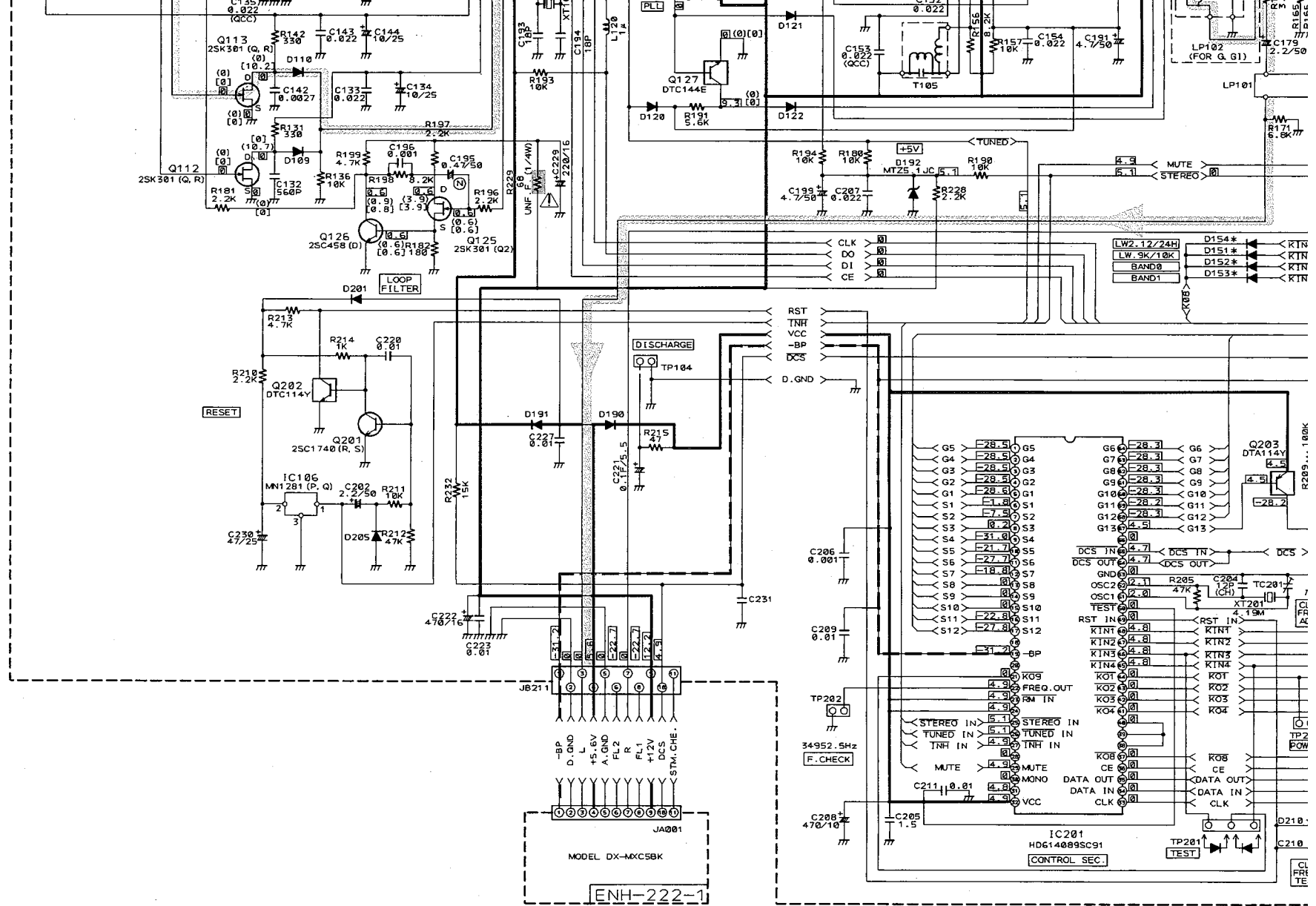
NO MARK DIODES ARE 1SS133
 □ FM AUTO NO SIGNAL (87.5MH)
 () MW NO SIGNAL (522KHZ)
 [] LW NO SIGNAL (144KHZ)

FE101
 EAF2203-003 (FOR G, GI)



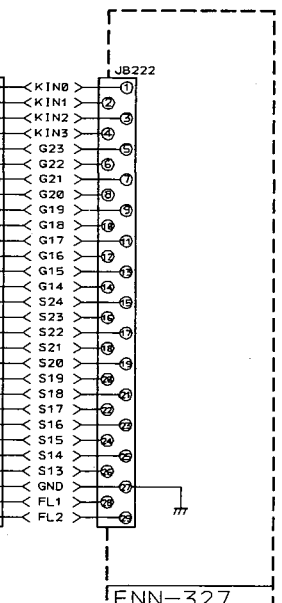
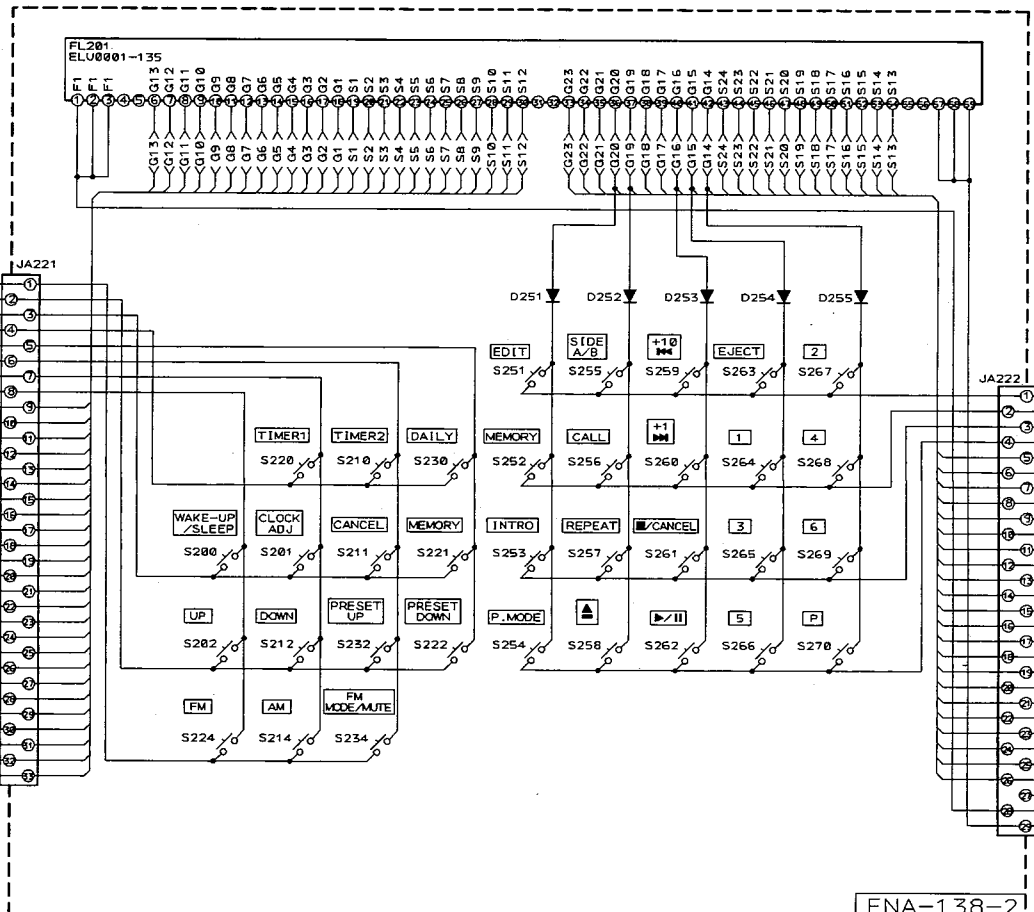
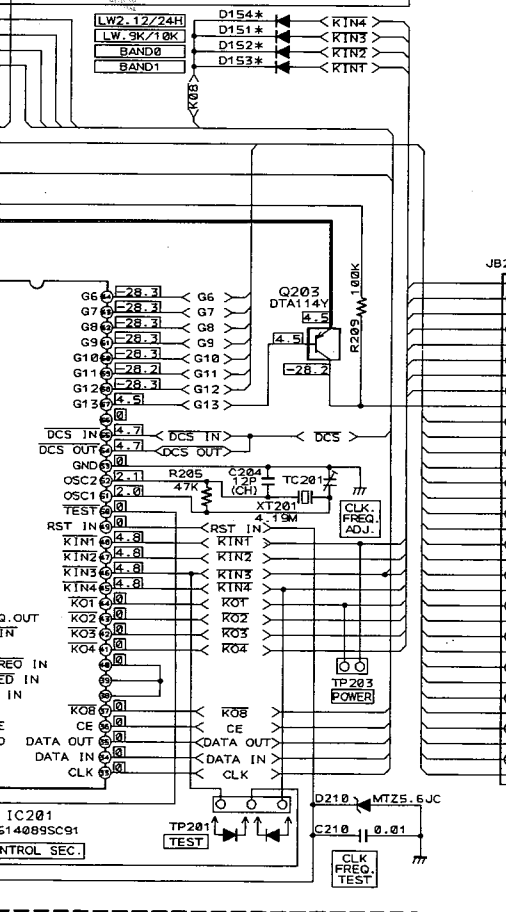
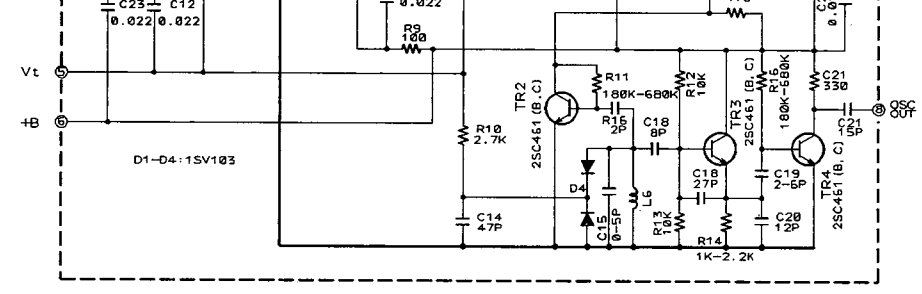
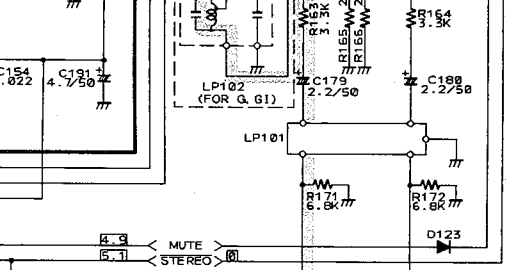
FE101
 EAF2203-001 (EXCEPT FOR G, GI, VX)





(No.20390)

(No.20390)

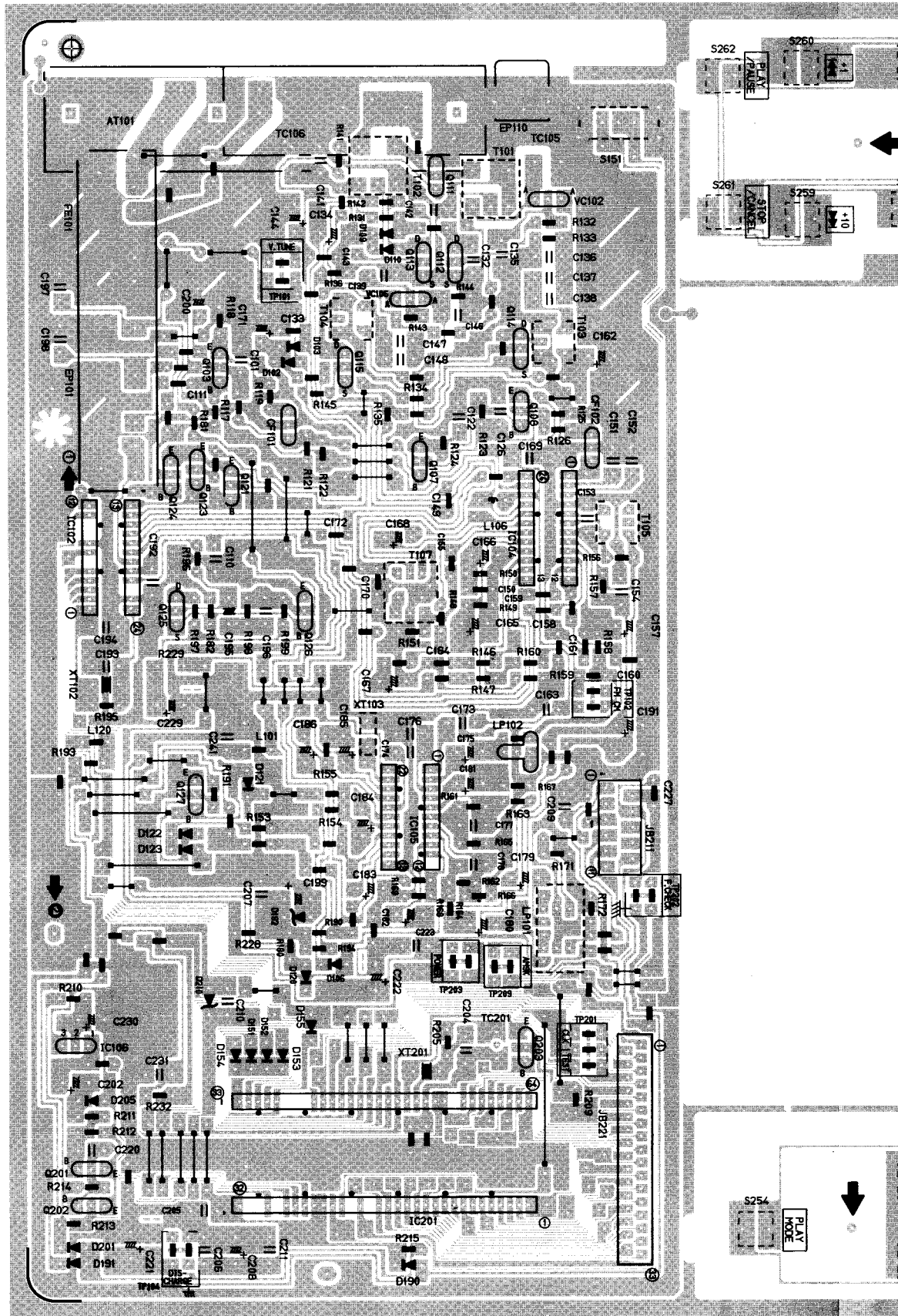


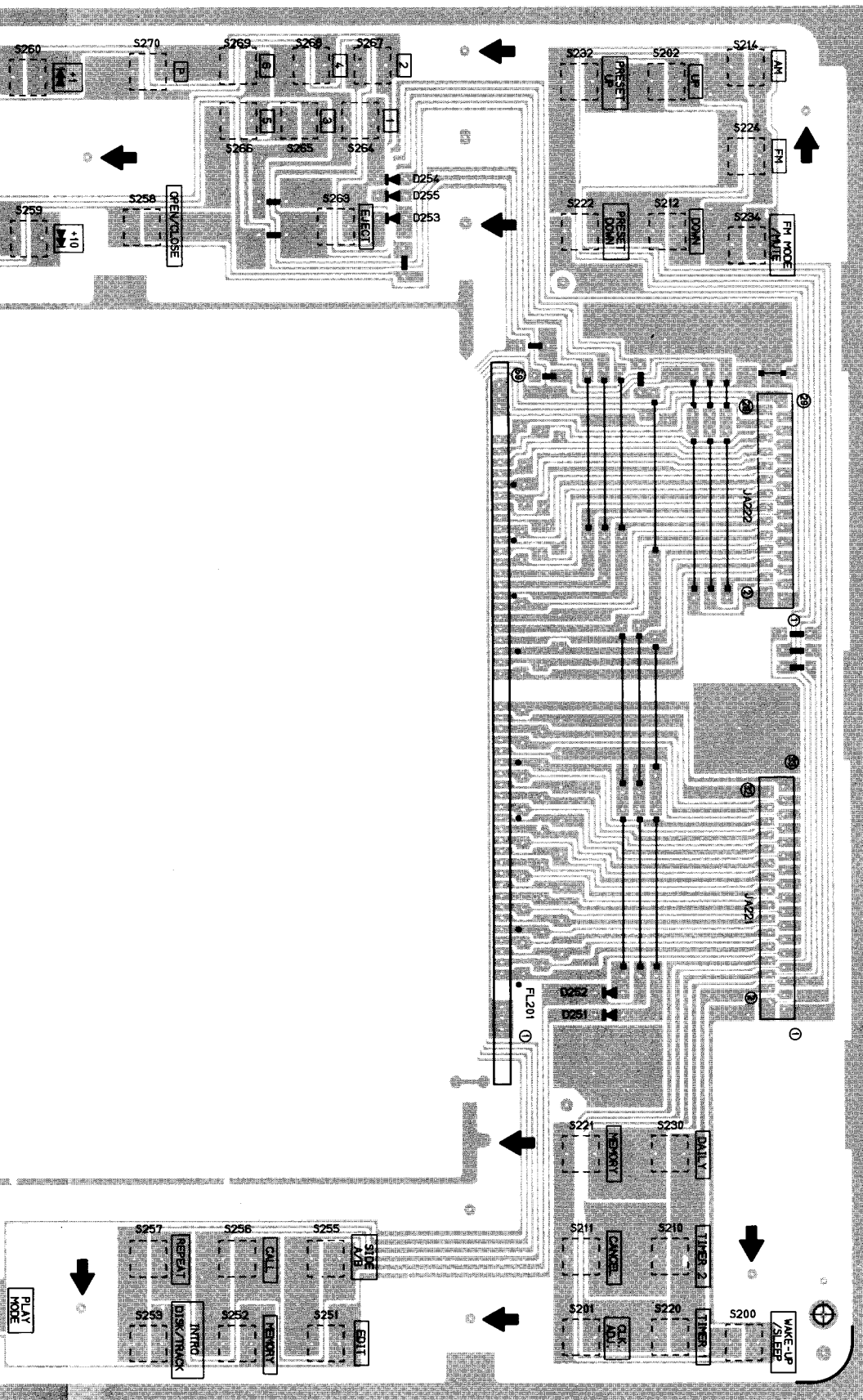
ENA-138-2

ENN-327

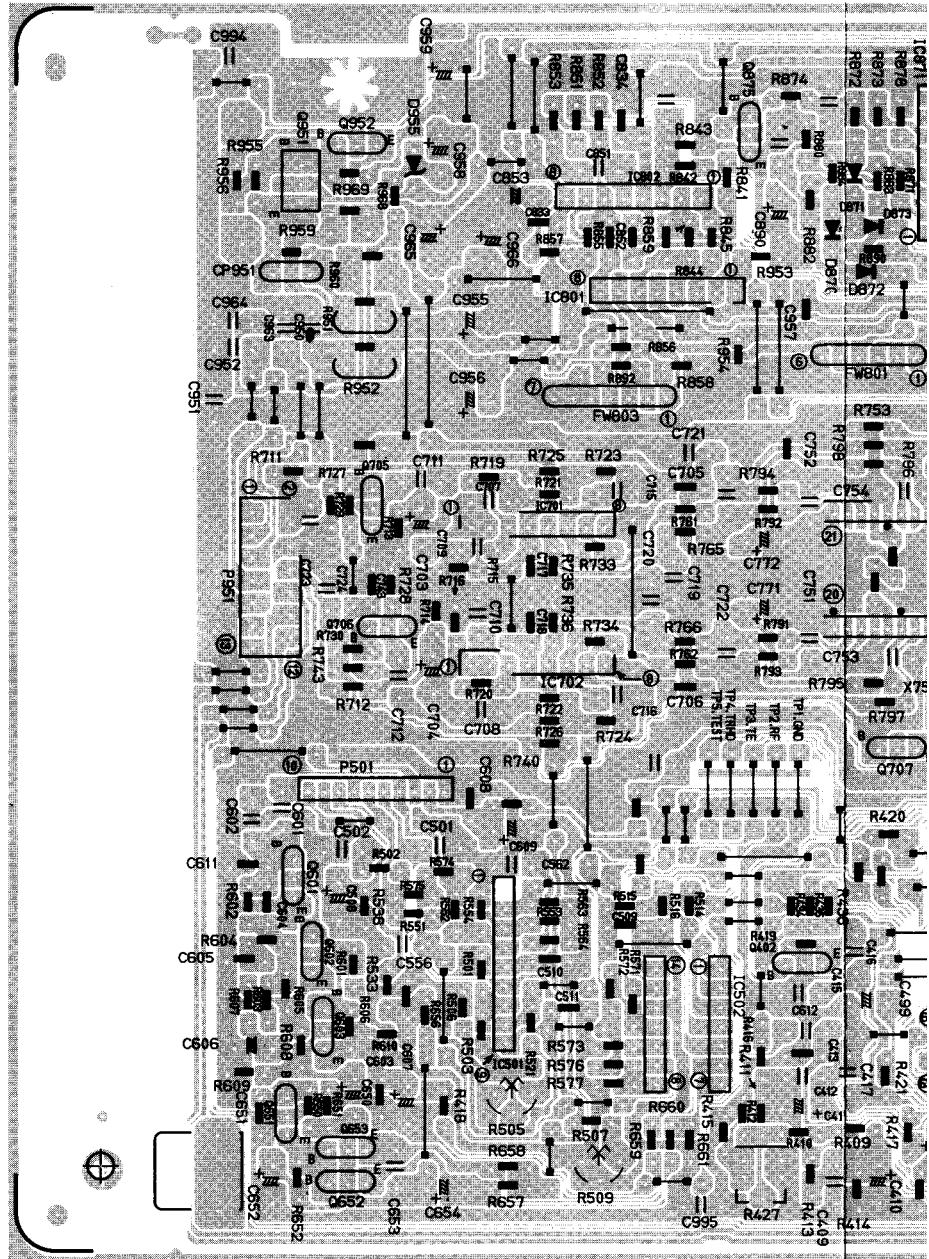
Printed Circuit Board

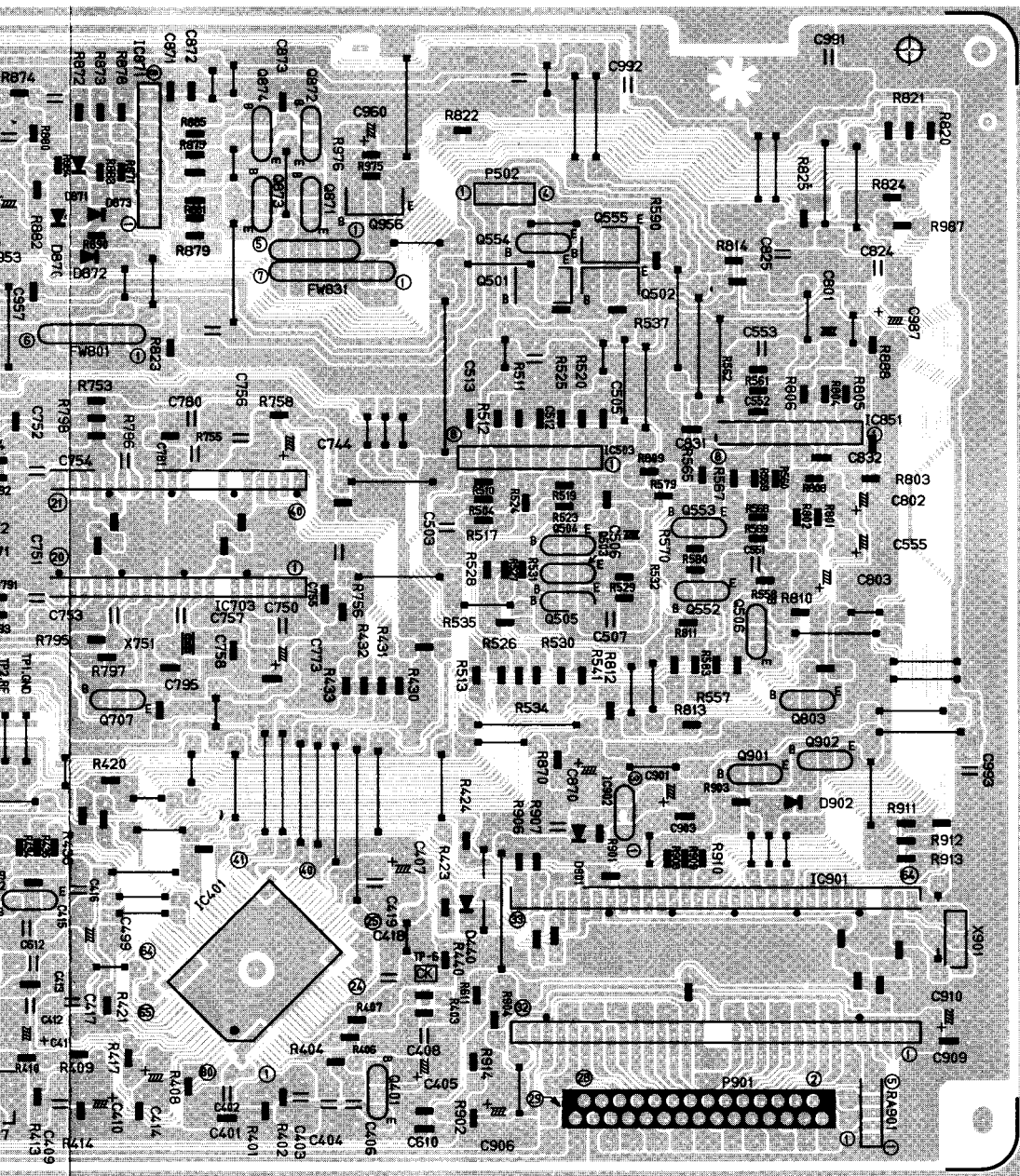
■ Tuner P,C,Bord(ENA-138)



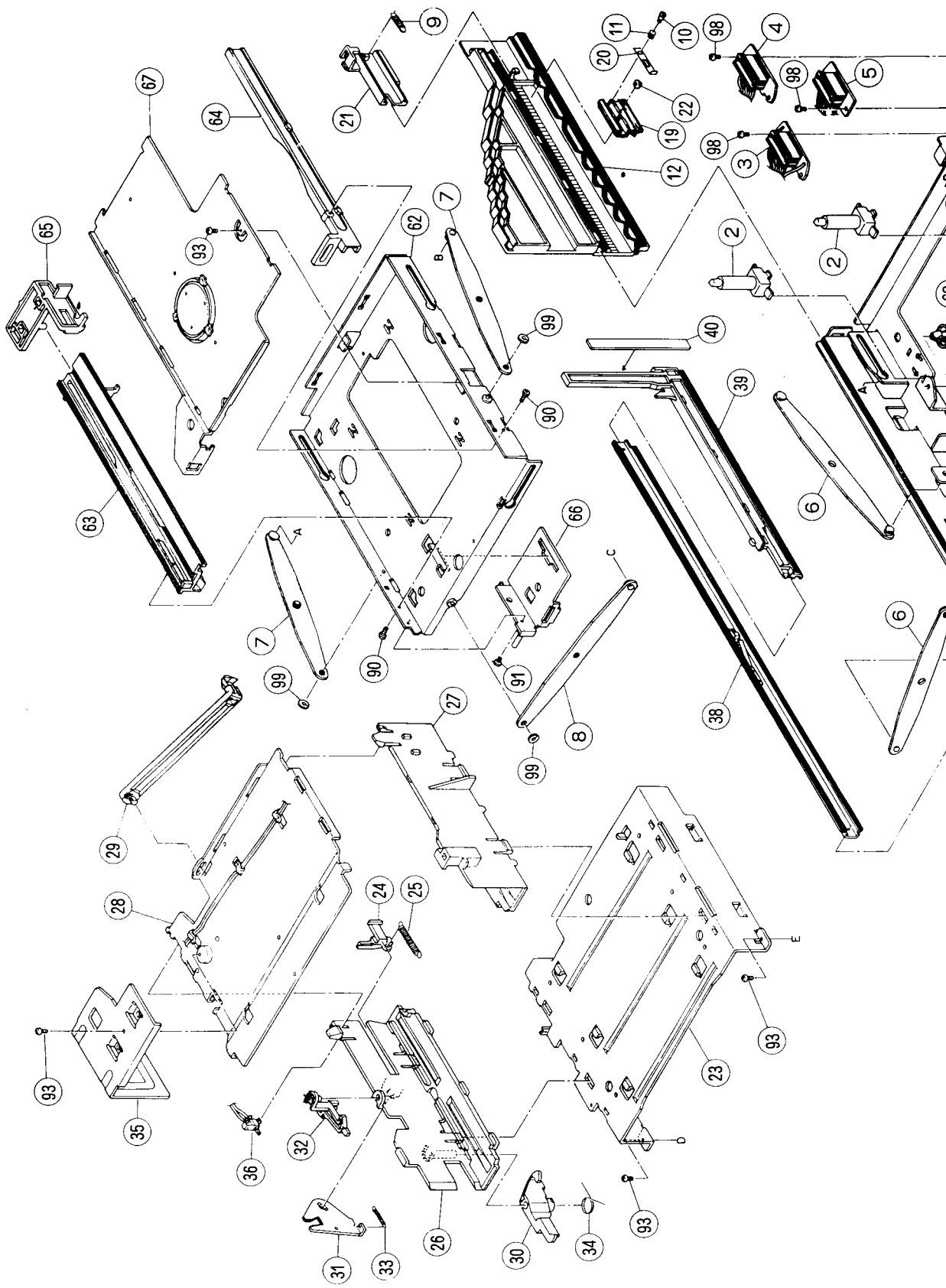


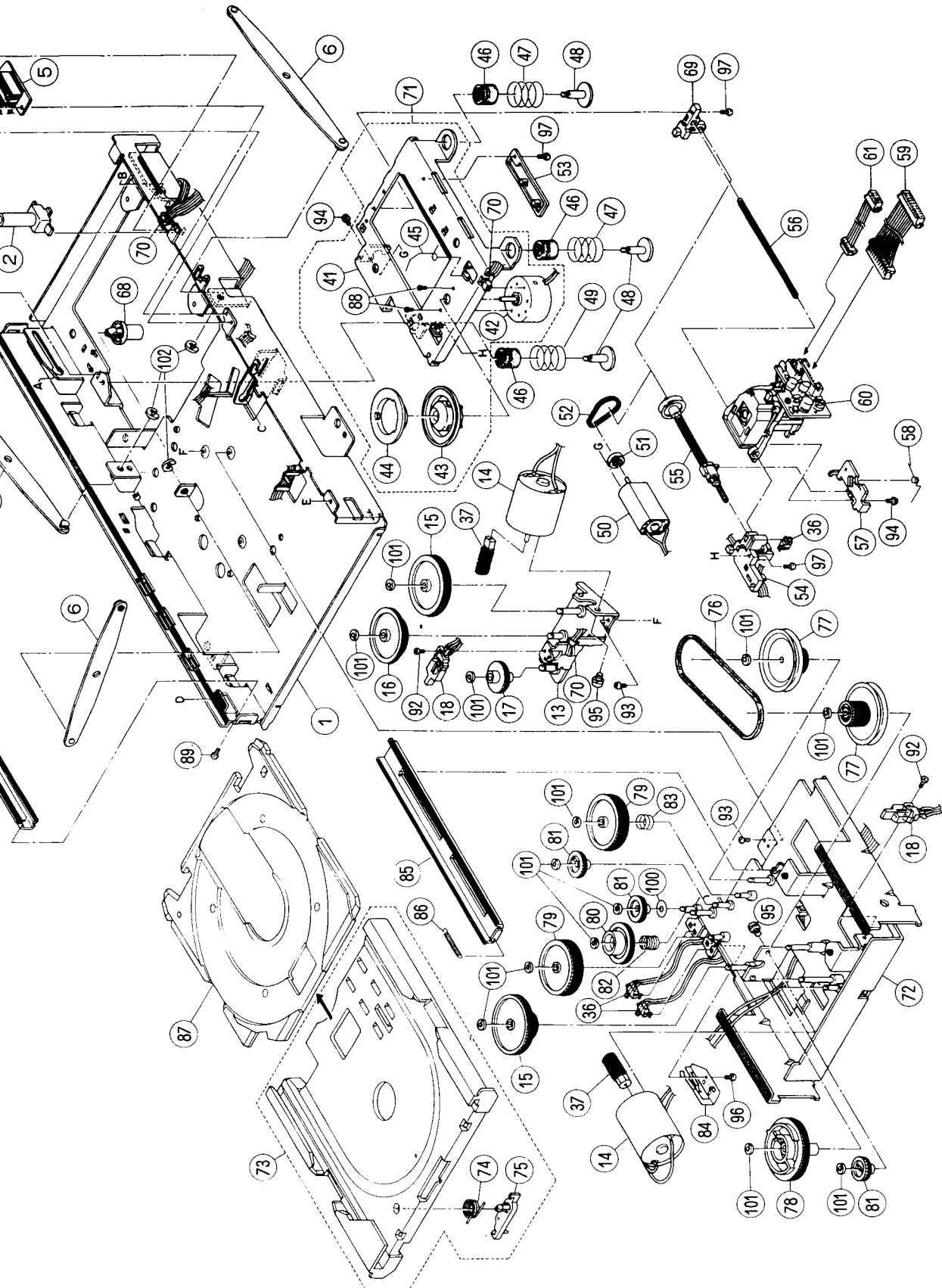
CD P,C,Bord(ENN-327)





Exploded View of Assemblies and Application points for Grease





- G-425A
- G-474C
- G-331

PARTS LIST

Note : All printed circuit boards and its assemblies are not available as service parts.

Contents

| | |
|---|------|
| General Exploded View and Parts List | 2-3 |
| CD Changer Ass'y and Parts List | 2-7 |
| ■ How to install the gears and pulley when servicing | 2-11 |
| Printed Circuit Board Ass'y and Parts List | 2-12 |
| ■ ENN-327 <input type="checkbox"/> Tuner PC Board Ass'y | 2-12 |
| ■ ENA-138 <input type="checkbox"/> CD PC Board Ass'y | 2-16 |

■ Parts List

| △ | Item | Part Number | Part Name | Q'ty | Description | Area |
|---|------|------------------|------------------|------|-------------|------|
| | 1 | EFP-XTMXC5BKE(S) | FRONT PANEL ASSY | 1 | | BS |
| | | EFP-XTMXC5BKE(S) | FRONT PANEL ASSY | 1 | | EF |
| | | EFP-XTMXC5BKE(S) | FRONT PANEL ASSY | 1 | | EN |
| | | EFP-XTMXC5BKE(S) | FRONT PANEL ASSY | 1 | | G |
| | | EFP-XTMXC5BKE(S) | FRONT PANEL ASSY | 1 | | GI |
| | | EFP-XTMXC5BKU(S) | FRONT PANEL ASSY | 1 | | A |
| | | EFP-XTMXC5BKU(S) | FRONT PANEL ASSY | 1 | | C |
| | | EFP-XTMXC5BKU(S) | FRONT PANEL ASSY | 1 | | J |
| | | EFP-XTMXC5BKU(S) | FRONT PANEL ASSY | 1 | | U |
| | | EFP-XTMXC5BKU(S) | FRONT PANEL ASSY | 1 | | UT |
| | 1-1 | E102557-007SM | FRONT PANEL | 1 | | A |
| | | E102557-007SM | FRONT PANEL | 1 | | C |
| | | E102557-008SM | FRONT PANEL | 1 | | BS |
| | | E102557-008SM | FRONT PANEL | 1 | | EF |
| | | E102557-008SM | FRONT PANEL | 1 | | EN |
| | | E102557-008SM | FRONT PANEL | 1 | | G |
| | | E102557-008SM | FRONT PANEL | 1 | | GI |
| | | E102557-007SM | FRONT PANEL | 1 | | J |
| | | E102557-007SM | FRONT PANEL | 1 | | U |
| | | E102557-007SM | FRONT PANEL | 1 | | UT |
| | 1-2 | E307975-001SM | WINDOW SCREEN | 1 | | J |
| | | E307975-002SM | WINDOW SCREEN | 1 | | A |
| | | E307975-002SM | WINDOW SCREEN | 1 | | BS |
| | | E307975-002SM | WINDOW SCREEN | 1 | | C |
| | | E307975-002SM | WINDOW SCREEN | 1 | | EF |
| | | E307975-002SM | WINDOW SCREEN | 1 | | EN |
| | | E307975-002SM | WINDOW SCREEN | 1 | | G |
| | | E307975-002SM | WINDOW SCREEN | 1 | | GI |
| | | E307975-002SM | WINDOW SCREEN | 1 | | U |
| | | E307975-002SM | WINDOW SCREEN | 1 | | UT |
| | 1-3 | E307973-005SM | LID | 1 | | |
| | 1-4 | E73534-001 | SPRING | 1 | | |
| | 1-5 | E72405-001 | SPECIAL SCREW | 2 | | |
| | 1-6 | E75130-007SM | FL SCREEN | 1 | | J |
| | 1-7 | E406971-001SM | JVC MARK | 2 | | |
| | 2 | E406855-006SM | SPACER | 2 | | |
| | 3 | E307958-004SM | PUSH BUTTON | 1 | TUNING | |
| | 4 | E207420-003SM | PUSH BUTTON | 1 | CD FF | |
| | 5 | E207411-004SM | PUSH BUTTON | 1 | CD EDIT | |
| | 6 | E307925-004SM | PUSH BUTTON | 1 | PRESET | |
| | 7 | E207409-003SM | PUSH BUTTON | 1 | CD DISK | |
| | 8 | E307987-004SM | PUSH BUTTON | 1 | TIMER | |
| | 9 | SDSF2610Z | SCREW | 7 | | |
| | 10 | EWR129K-15TT | FLAT WIRE | 1 | FOR CD | |
| | 11 | EWR133K-17TT | FLAT WIRE | 1 | FOR TUNER | |
| | 12 | E307992-002SM | CD FITNG | 1 | | |
| | 13 | E207399-006SM | METAL COVER | 1 | | |
| | 14 | SDSG3006M | SCREW | 7 | | |
| | 15 | E102564-001SM | CHASSIS BASE | 1 | | |
| | 16 | E406855-007SM | SPACER | 2 | FOOT | |

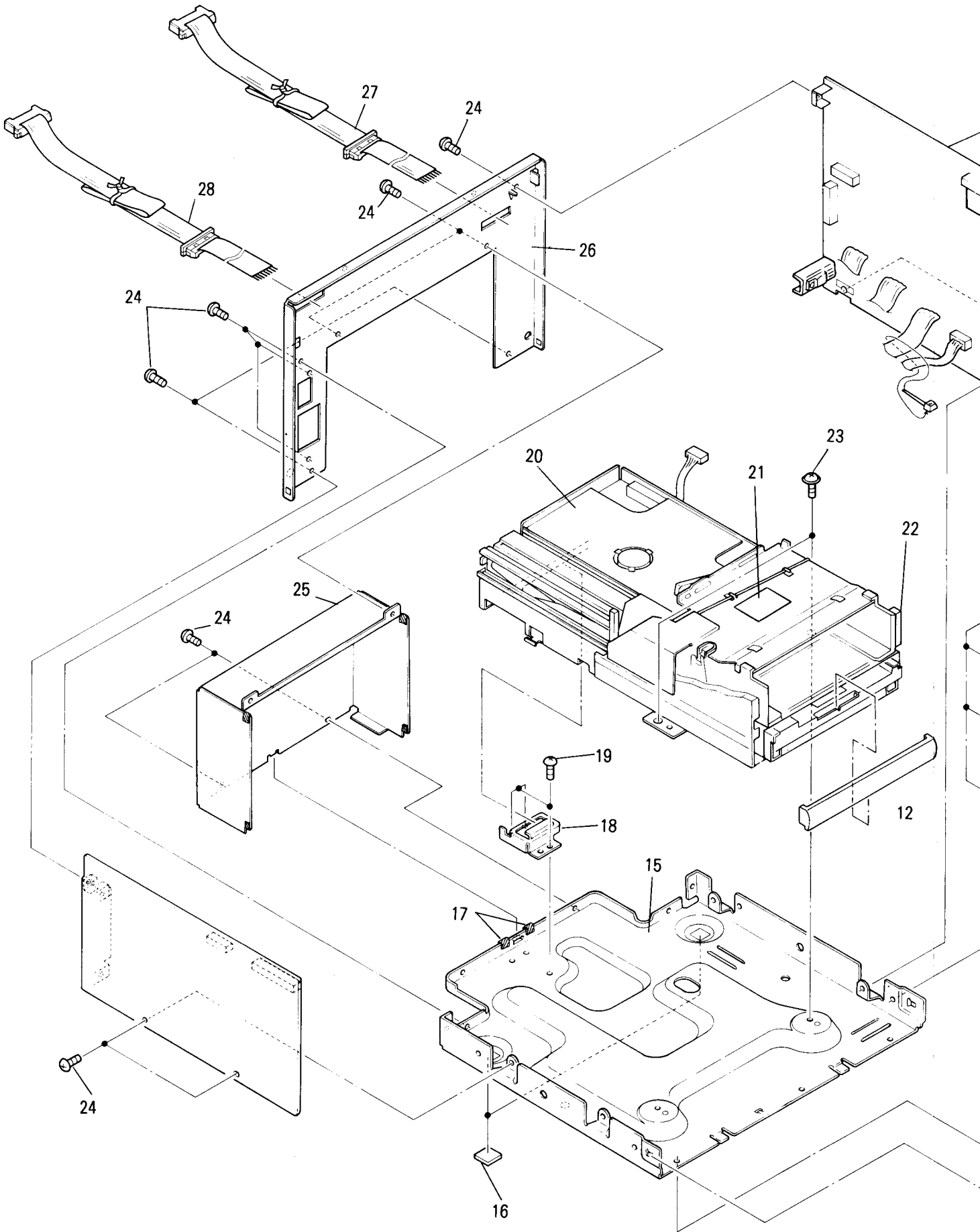
| △ | Item | Part Number | Part Name | Q'ty | Description | Area |
|---|------|-----------------|--------------------------------|------|--------------|------|
| | 17 | EXO015008H05S11 | SPACER | 6 | See page 2-7 | |
| | 18 | E307977-001SM | MECHA BRACKET | 1 | | |
| | 19 | SBST3004CC | SCREW | 3 | | |
| | 20 | ----- | CD CHANGER MECHANISM UNIT ASSY | 1 | | |
| | 21 | E406507-001 | CAUTION LABEL | 1 | | A |
| | | E406507-001 | CAUTION LABEL | 1 | | BS |
| | | E406507-001 | CAUTION LABEL | 1 | | C |
| | | E406507-001 | CAUTION LABEL | 1 | | EF |
| | | E406507-001 | CAUTION LABEL | 1 | | EN |
| | | E406507-001 | CAUTION LABEL | 1 | | G |
| | | E406507-001 | CAUTION LABEL | 1 | | GI |
| | | E406507-001 | CAUTION LABEL | 1 | | U |
| | 22 | E306805-065SM | SPACER | 1 | | UT |
| | 23 | GBSG3008Z | SCREW | 2 | | |
| | 24 | SBSG3008CC | SCREW | 14 | | |
| | 25 | E207413-001SM | REAR COVER | 1 | | |
| | 26 | E207402-018SM | REAR PANEL | 1 | | J |
| | | E207402-019SM | REAR PANEL | 1 | | A |
| | | E207402-019SM | REAR PANEL | 1 | | C |
| | | E207402-020SM | REAR PANEL | 1 | | U |
| | | E207402-020SM | REAR PANEL | 1 | | UT |
| | | E207402-021SM | REAR PANEL | 1 | | BS |
| | | E207402-022SM | REAR PANEL | 1 | | EF |
| | | E207402-022SM | REAR PANEL | 1 | | EN |
| | | E207402-022SM | REAR PANEL | 1 | | G |
| | | E207402-022SM | REAR PANEL | 1 | | GI |
| | 27 | EWP907-010 | FLAT WIRE ASSY | 1 | | |
| | 28 | EWP907-011 | FLAT WIRE ASSY | 1 | | |
| | 29 | E67000-018 | CAUTION LABEL | 1 | | |
| | - | E61029-009 | NUMBER LABEL | 1 | | |
| | - | E70891-001 | LABEL | 1 | | A |
| | | E70891-001 | LABEL | 1 | | BS |
| | | E70891-001 | LABEL | 1 | | EF |
| | | E70891-001 | LABEL | 1 | | EN |
| | | E70891-001 | LABEL | 1 | | G |
| | | E70891-001 | LABEL | 1 | | GI |
| | | E70891-001 | LABEL | 1 | | U |
| | | E70891-001 | LABEL | 1 | | UT |

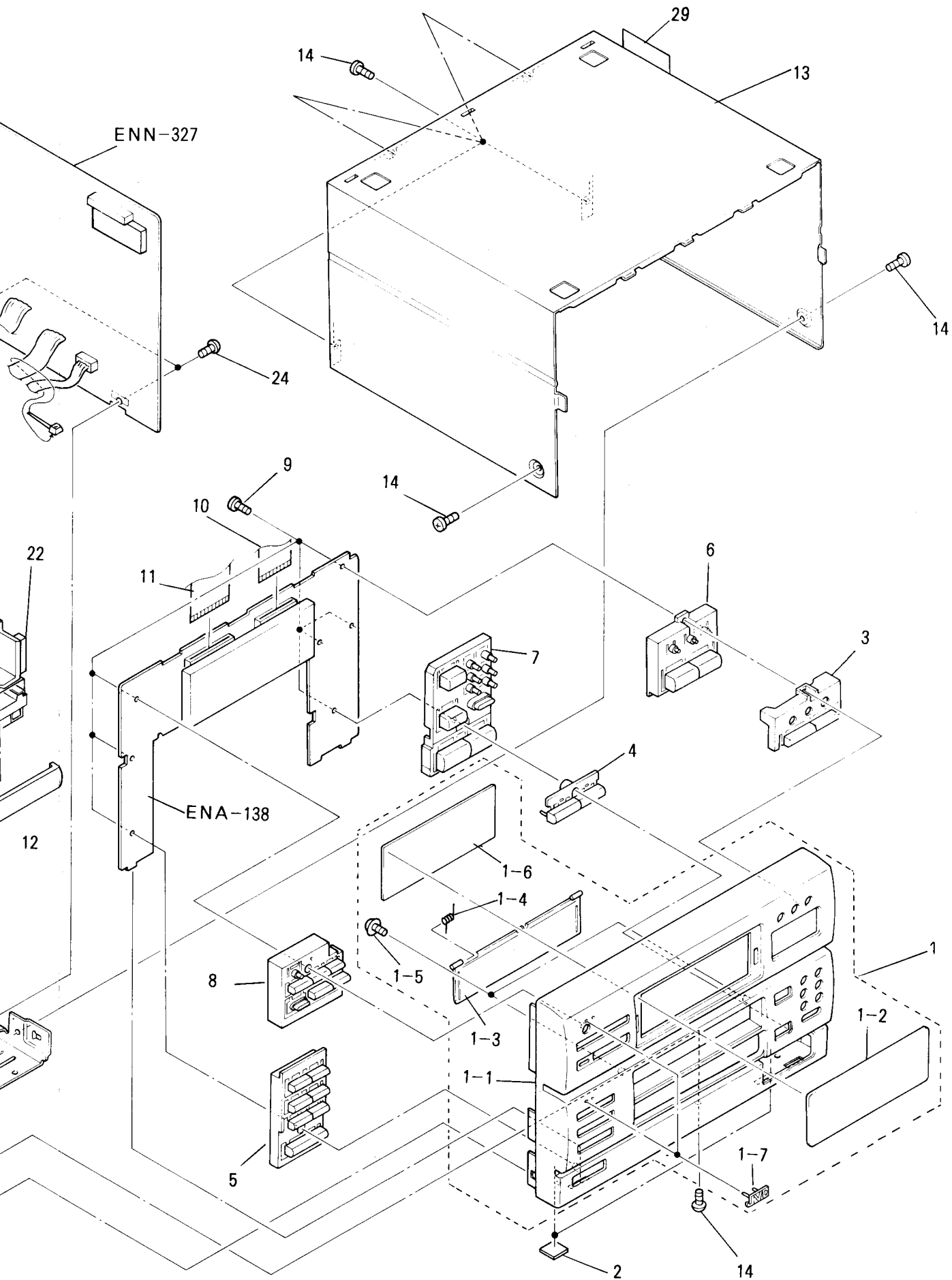
△ : Safety Parts

The Marks for Designated Areas

| | | | | | | | |
|---------|----------------|---------|-----------|------------------------------|----------|----------|--------------------|
| J | the U.S.A. | A | Australia | C | Canada | G | Germany |
| U | Universal Type | UT | Taiwan | BS | the U.K. | EF | Continental Europe |
| EN | Scandinavia | GI | Italy | No mark indicates all areas. | | | |

General Exploded View and Parts List



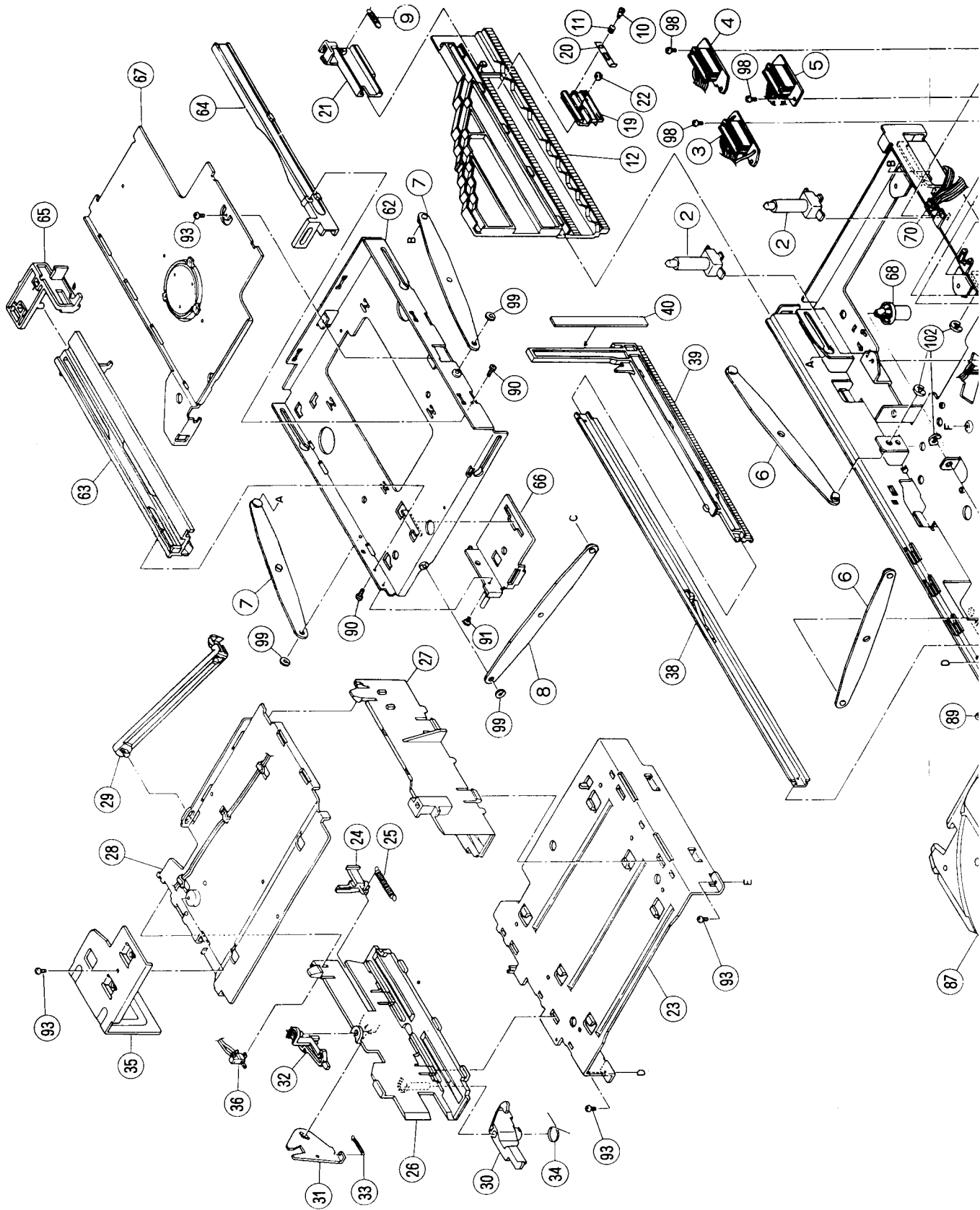


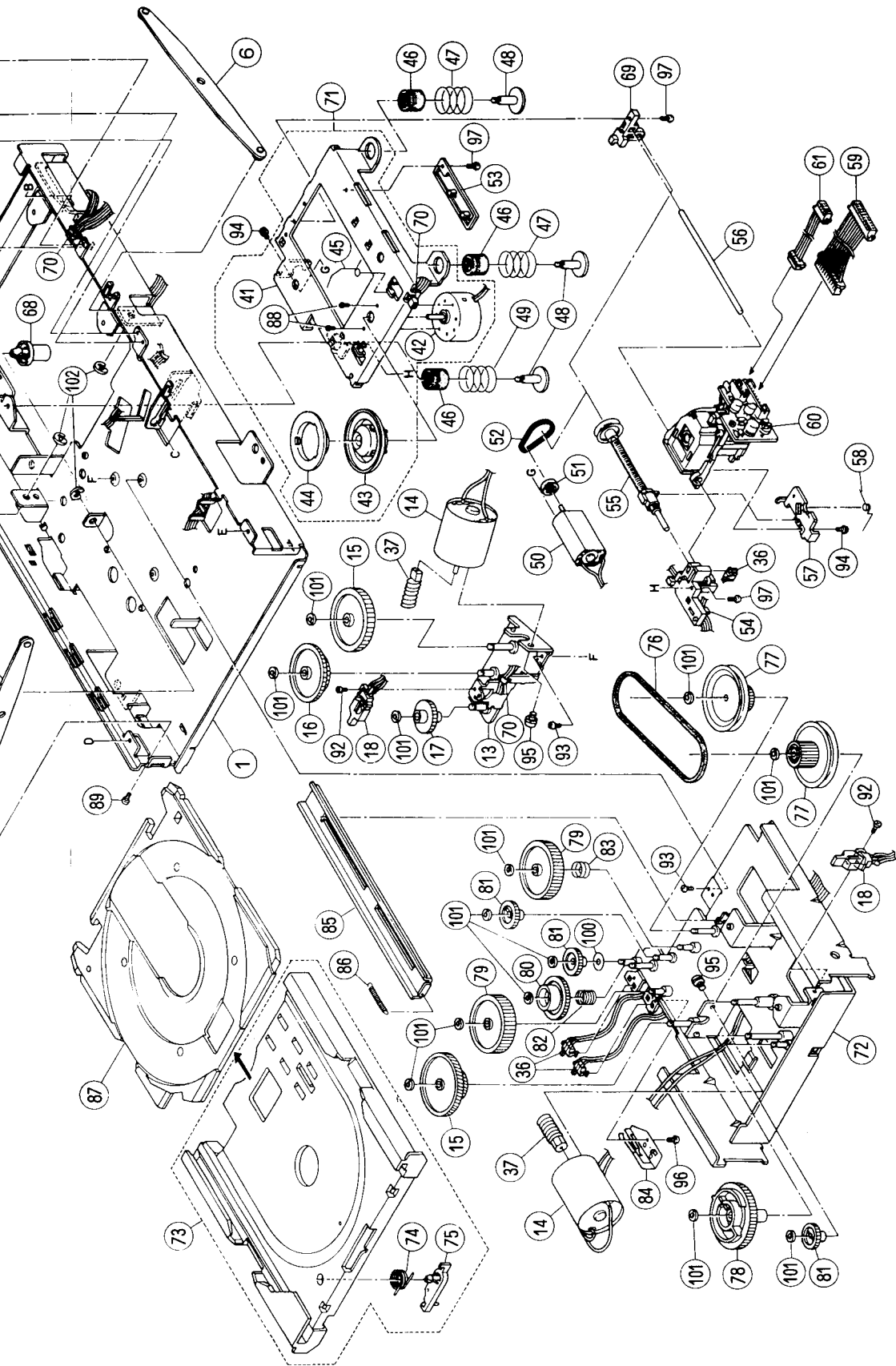
■ Parts List (CD Changer Ass'y)

| Item | Part Number | Part Name | Q'ty | Description | Area |
|------|---------------|-----------------------------|------|-------------|------|
| 1 | 30100101T | CHASSIS BASE | 1 | | |
| 2 | 30050115T | GUIDE BOSS | 2 | | |
| 3 | 300501302T | CONNECTOR PC BOARD A ASSY | 1 | | |
| 4 | 301001301T | CONNECTOR PC BOARD D ASSY | 1 | | |
| 5 | 300501304T | CONNECTOR PC BOARD P ASSY | 1 | | |
| 6 | 301002502T | ELEVATOR ARM A ASSY | 3 | | |
| 7 | 301002503T | ELEVATOR SIDE ARM B ASSY | 2 | | |
| 8 | 301002504T | ELEVATOR FRONT ARM A ASSY | 1 | | |
| 9 | 30100221T | CAM LEVER SPRING | 1 | | |
| 10 | 30100222T | COLLAY SCREW | 1 | | |
| 11 | 30100223T | CAM SPRING | 1 | | |
| 12 | 30100202T | LIFT CAM | 1 | | |
| 13 | 301002501T | ELEVATOR MOTOR BRACKET ASSY | 1 | | |
| 14 | RF-370C-15370 | LOADING MOTOR | 2 | | |
| 15 | 30100210T | ELEVATOR GEAR B | 2 | | |
| 16 | 30100212T | ELEVATOR GEAR C | 1 | | |
| 17 | 30100213T | ELEVATOR GEAR D | 1 | | |
| 18 | 640101204T | LEAF SWITCH | 2 | | |
| 19 | 30100204T | CAM SLIDER | 1 | | |
| 20 | 30100205T | CAM SPRING PLATE | 1 | | |
| 21 | 30100206T | CAM LEVER | 1 | | |
| 22 | 30100207T | CAM ROLLER | 1 | | |
| 23 | 30100301T | GUIDE BASE | 1 | | |
| 24 | 30100311T | ELEVATOR SLIDE LEVER | 1 | | |
| 25 | 30100312T | ELEVATOR SLIDE LEVER SPRING | 1 | | |
| 26 | 30100303T | MAGAZINE GUIDE | 1 | LEFT | |
| 27 | 30100304T | MAGAZINE GUIDE | 1 | RIGHT | |
| 28 | 30100305T | GUIDE COVER | 1 | | |
| 29 | 30050309T | TRAY STOPPER | 1 | | |
| 30 | 30100310T | RELEASE LEVER | 1 | | |
| 31 | 30100308T | ELEVATOR KICK LEVER | 1 | | |
| 32 | 30100307T | LOCK LEVER | 1 | | |
| 33 | 30100309T | ELEVATOR KICK LEVER SPRING | 1 | | |
| 34 | 30100313T | RELEASE LEVER SPRING | 1 | | |
| 35 | 30100306T | CAM STABILIZER | 1 | | |
| 36 | 64020403T | PUSH SWITCH | 4 | | |
| 37 | 30050508T | FEED GEAR A | 2 | | |
| 38 | 301005501T | FEED RAIL ASSY | 1 | | |
| 39 | 30100504T | HOOK SLIDE GEAR | 1 | | |
| 40 | 30100505T | SLIDE GEAR PLATE | 1 | | |
| 41 | 30050738T | TURN TABLE BASE | 1 | | |
| 42 | 60020705T | SPINDLE MOTOR | 1 | | |
| 43 | 30050729T | TURN TABLE | 1 | | |
| 44 | 30050713T | TURN TABLE PLATE | 1 | | |
| 45 | 30050742T | CONTROLLER SPRING | 1 | | |
| 46 | 30050721T | FLOATING RUBBER | 3 | | |
| 47 | 30050715T | FLOATING SPRING (B) | 2 | | |
| 48 | 30050743T | FLORTIN SCREW | 3 | | |
| 49 | 30050740T | FLORTIN SPRING | 1 | | |
| 50 | 60021102T | FEED MOTOR | 1 | | |
| 51 | 30050709T | MOTOR PULLEY | 1 | | |
| 52 | 30050714T | FEED MOTOR BELT | 1 | | |
| 53 | 30050737T | PICK UP SUPPORT | 1 | | |
| 54 | 30050724T | SHAFT HOLDER A | 1 | | |
| 55 | 300507303T | FEED SCREW ASSY | 1 | | |

| Item | Part Number | Part Name | Q'ty | Description | Area |
|------|-------------|----------------------|------|-------------|------|
| 56 | 30050728T | PICK UP SAHFT | 1 | | |
| 57 | 30050735T | FEED NUT SUPPORT | 1 | | |
| 58 | 30050739T | FEED NUT SPRING | 1 | | |
| 59 | EWS26A-B921 | WIRE | 1 | 10PIN | |
| 60 | OPTIMA-5S | PICK UP | 1 | | |
| 61 | EWS264-B924 | WIRE | 1 | 4PIN | |
| 62 | 301008503T | RAIL BASE ASSY | 1 | | |
| 63 | 30100802T | RAIL | 1 | LEFT | |
| 64 | 30100803T | RAIL | 1 | RIGHT | |
| 65 | 30100804T | HOOK LEVER | 1 | | |
| 66 | 301008502T | LP BRACKET ASSY | 1 | | |
| 67 | 301008301T | MAGNET HOLDER ASSY | 1 | | |
| 68 | 30050114T | CHASSIS SUPPORT | 1 | | |
| 69 | 30050725T | SHAFT HOLDER B | 1 | | |
| 70 | 12030105T | TIE BAND | 4 | | |
| 71 | 300507305T | TURN TABLE BASE ASSY | 1 | | |
| 72 | 301004502T | PLUS BASE ASSY | 1 | | |
| 73 | 301004302T | PLUS RAIL BASE ASSY | 1 | | |
| 74 | 30100415T | STOPPER SPRING | 1 | | |
| 75 | 30050416T | STOPPER | 1 | | |
| 76 | 30100411T | PLUS BELT | 1 | | |
| 77 | 30100403T | PLUS GEAR A | 2 | | |
| 78 | 30100404T | PLUS GEAR B | 1 | | |
| 79 | 30100515T | FEED GEAR C | 2 | | |
| 80 | 30100506T | FEED GEAR D | 1 | | |
| 81 | 30100516T | PLUS GEAR E | 3 | | |
| 82 | 30100413T | GEAR SPRING D SPRING | 1 | | |
| 83 | 30100412T | GEAR SPRING E SPRING | 1 | | |
| 84 | 30100414T | SWITCH ACTUATOR | 1 | | |
| 85 | 30100418T | PLUS SLIDE RAIL | 1 | | |
| 86 | 30100410T | PLUS RAIL SPRING | 1 | | |
| 87 | E26554-005 | PLUS 1 TRAY | | | |
| 88 | SPSK1722M | SCREW | 2 | | |
| 89 | 9C0420253T | SCREW | 1 | | |
| 90 | 9C0820601T | SCREW | 2 | | |
| 91 | 9C1220301T | SCREW | 1 | | |
| 92 | 9C0420403T | SCREW | 2 | | |
| 93 | 9P0420031T | SCREW | 6 | | |
| 94 | 9P0220031T | SCREW | 2 | | |
| 95 | 9P0230041T | SCREW | 2 | | |
| 96 | 9P1120032T | SCREW | 1 | | |
| 97 | 9P0420051T | SCREW | 3 | | |
| 98 | 9P0420041T | SCREW | 3 | | |
| 99 | 9W0640040T | WASHER | 3 | | |
| 100 | 9W0113080T | WASHER | 2 | | |
| 101 | 9W0250110T | WASHER | 14 | | |
| 102 | REE3000X | E.RING | 3 | | |

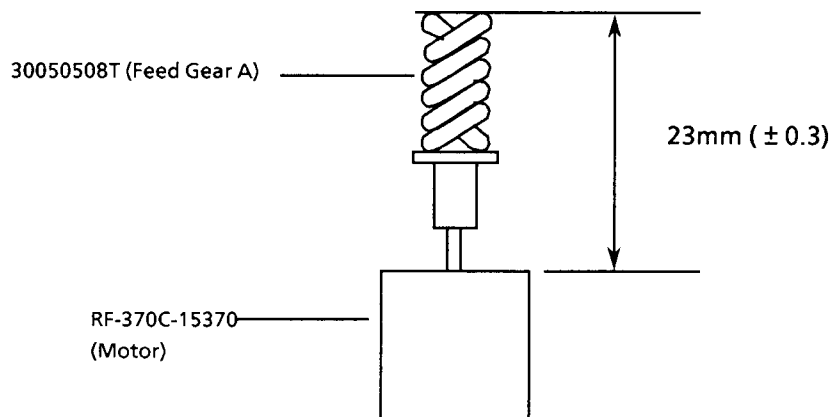
CD Changer Ass'y and Parts List



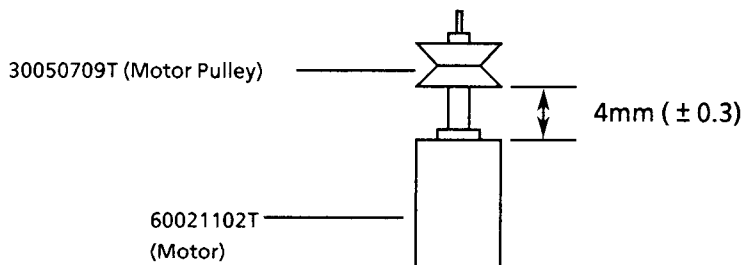


■ How to install the gears and pulley when servicing.

1. Motor, Loading Motor



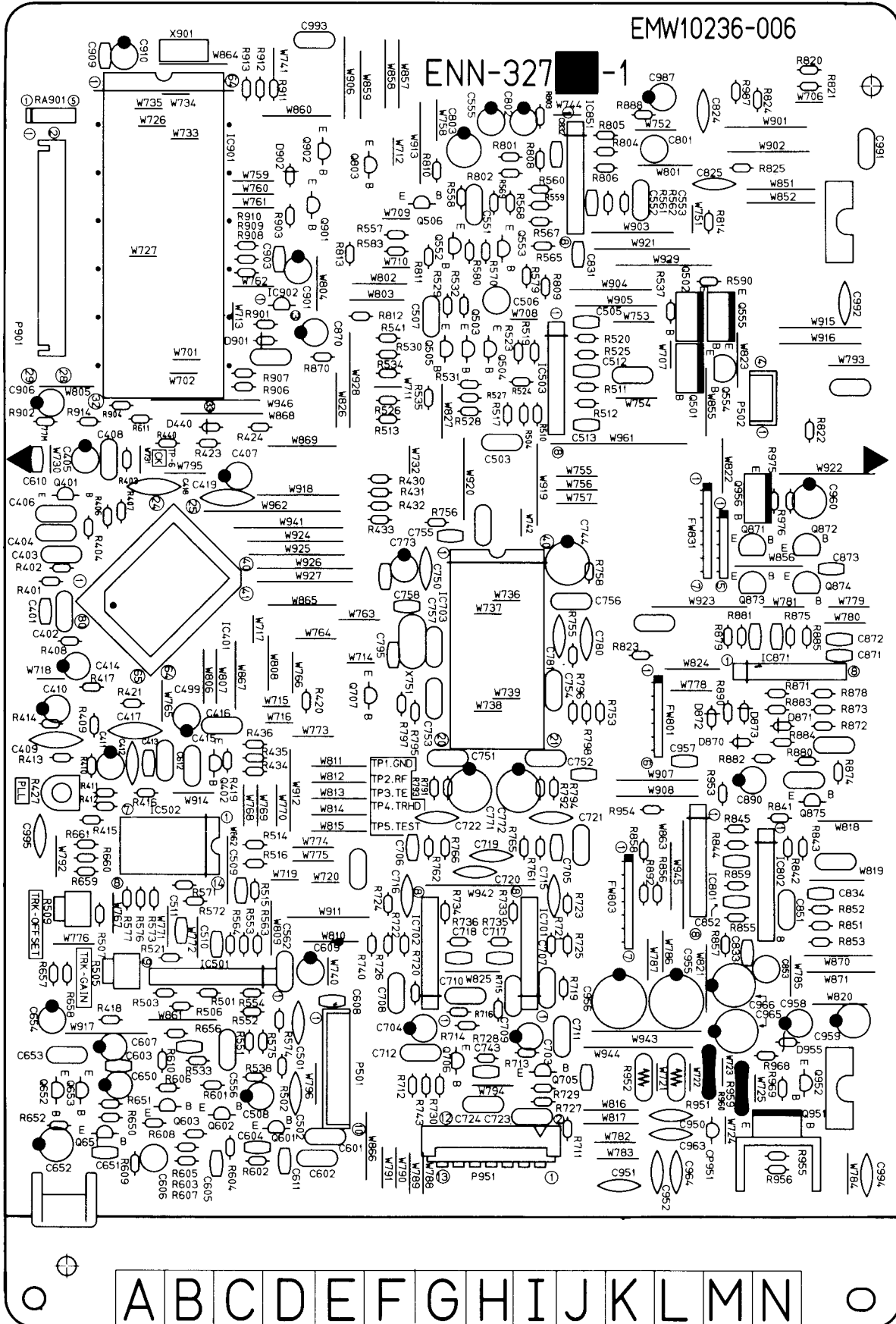
2. Feed Motor



Printed Circuit Board Ass'y and Parts List

■ ENN-327 □ Tuner PC Board Ass'y

Note : ENN-327 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

| PC Board Ass'y | Designated Areas |
|------------------|--|
| ENN-327 I | Australia the U.K. Canada Scandinavia Continental Europe Universal Type Taiwan |
| ENN-327 J | Germany Italy |
| ENN-327 H | the U.S.A. |

TRANSISTORS

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|---------------|--------------------|------|
| Q401 | 2SD2144S(VW) | SILICON ROHM | |
| Q402 | 2SD2144S(VW) | SILICON ROHM | |
| Q501 | 2SD2037(E,F) | SILICON ROHM | |
| Q502 | 2SB1357(E,F) | SILICON ROHM | |
| Q503 | 2SD2144S(VW) | SILICON ROHM | |
| Q504 | 2SD2144S(VW) | SILICON ROHM | |
| Q505 | 2SD2144S(VW) | SILICON ROHM | |
| Q506 | DTA144WS | SILICON ROHM | |
| Q552 | 2SD2144S(VW) | SILICON ROHM | |
| Q553 | 2SA933S(R,S) | SILICON ROHM | |
| Q554 | 2SC2060(Q,R) | SILICON ROHM | |
| Q555 | 2SB1357(E,F) | SILICON ROHM | |
| Q601 | 2SC535(B,C) | SILICON HITACHI | |
| Q602 | 2SC1740S(R,S) | SILICON ROHM | |
| Q603 | 2SA933S(R,S) | SILICON ROHM | |
| Q651 | 2SA933S(R,S) | SILICON ROHM | |
| Q652 | 2SC1740S(R,S) | SILICON ROHM | |
| Q653 | 2SC1740S(R,S) | SILICON ROHM | |
| Q705 | 2SD1302(S,T) | SILICON MATSUSHITA | |
| Q706 | 2SD1302(S,T) | SILICON MATSUSHITA | |
| Q707 | DTA144ES | SILICON ROHM | |
| Q803 | 2SD2144S(VW) | SILICON ROHM | |
| Q871 | 2SC2060(Q,R) | SILICON ROHM | |
| Q872 | 2SC2060(Q,R) | SILICON ROHM | |
| Q873 | 2SA934(Q,R) | SILICON ROHM | |
| Q874 | 2SA934(Q,R) | SILICON ROHM | |
| Q875 | DTA144ES | SILICON ROHM | |
| Q901 | DTA114YS | SILICON ROHM | |
| Q902 | DTA144ES | SILICON ROHM | |
| Q951 | 2SB1187(E,F) | SILICON ROHM | |
| Q952 | 2SC1740S(R,S) | SILICON ROHM | |
| Q956 | 2SB1357(E,F) | SILICON ROHM | |

I. C. S.

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|-------|--------------|-----------------|------|
| IC401 | YM7121C | I.C. YAMAHA | |
| IC501 | NJM072S | I.C. DAINICHI | |
| IC502 | BA10359 | I.C. ROHM | |
| IC503 | M5218AL | I.C. MITSUBISHI | |
| IC701 | M5218AL | I.C. MITSUBISHI | |
| IC702 | M5218AL | I.C. MITSUBISHI | |
| IC703 | JCE4501 | I.C. MATSUSHITA | |
| IC801 | STA341M(A) | I.C. SANKEN | |
| IC802 | M5218AL | I.C. MITSUBISHI | |
| IC851 | M5218AL | I.C. MITSUBISHI | |
| IC871 | M5218AL | I.C. MITSUBISHI | |
| IC901 | MN171602JP92 | I.C. MATSUSHITA | |
| IC902 | MN1281(P,Q) | I.C. MATSUSHITA | |

△ : SAFETY PARTS

DIODES

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|-------------|--------------|------|
| D440 | 1SS133 | SILICON ROHM | |
| D870 | 1SS133 | SILICON ROHM | |
| D871 | 1SS133 | SILICON ROHM | |
| D872 | 1SS133 | SILICON ROHM | |
| D873 | 1SS133 | SILICON ROHM | |
| D901 | 1SS133 | SILICON ROHM | |
| D902 | 1SS133 | SILICON ROHM | |
| D955 | MTZ5.6JB | ZENER ROHM | |

CAPACITORS

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|-------------|---------------------|------|
| C401 | QCBB1HK-101 | 100PF 50V CERAMIC | |
| C402 | QFV81HJ-105 | 1MF 50V T.FILM | |
| C403 | QFN81HJ-182 | 1800PF 50V MYLAR | |
| C404 | QFV81HJ-224 | 0.22MF 50V T.FILM | |
| C405 | QETB1EM-106 | 10MF 25V ELECTRO | |
| C406 | QCZ0205-155 | 1.5MF 25V CERAMIC | |
| C407 | QETB1AM-107 | 100MF 10V ELECTRO | |
| C408 | QFV81HJ-104 | 0.1MF 50V T.FILM | |
| C409 | QCF21HP-473 | 0.047MF 50V CERAMIC | |
| C410 | QETB1EM-106 | 10MF 25V ELECTRO | |
| C411 | QETB1AM-107 | 100MF 10V ELECTRO | |
| C412 | QCZ0205-155 | 1.5MF 25V CERAMIC | |
| C413 | QCSB1HJ-470 | 47PF 50V CERAMIC | |
| C414 | QETB1EM-106 | 10MF 25V ELECTRO | |
| C415 | QFV81HJ-563 | 0.056MF 50V T.FILM | |
| C416 | QFV81HJ-564 | 0.56MF 50V T.FILM | |
| C417 | QCZ0205-155 | 1.5MF 25V CERAMIC | |
| C418 | QCZ0205-155 | 1.5MF 25V CERAMIC | |
| C419 | QCS21HJ-5R0 | 5PF 50V CERAMIC | I |
| C499 | QETB1AM-476 | 47MF 10V ELECTRO | |
| C501 | QCT26CH-151 | 150PF 50V CERAMIC | |
| C502 | QCT26CH-121 | 120PF 50V CERAMIC | |
| C503 | QFV81HJ-223 | 0.022MF 50V T.FILM | |
| C505 | QCSB1HK-4R7 | 4.7PF 50V CERAMIC | |
| C506 | QEN51HM-225 | 2.2MF 50V NON POLE | |
| C507 | QFV81HJ-563 | 0.056MF 50V T.FILM | |
| C508 | QETB1AM-476 | 47MF 10V ELECTRO | |
| C509 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | |
| C510 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | |
| C511 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | |
| C512 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | |
| C513 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | |
| C551 | QFV81HJ-183 | 0.018MF 50V T.FILM | |
| C552 | QCBB1HK-271 | 270PF 50V CERAMIC | |
| C553 | QFV81HJ-393 | 0.039MF 50V T.FILM | |
| C555 | QETB1CM-226 | 22MF 16V ELECTRO | |
| C556 | QFV81HJ-104 | 0.1MF 50V T.FILM | |
| C562 | QFV81HJ-224 | 0.22MF 50V T.FILM | |
| C601 | QFN81HJ-472 | 4700PF 50V MYLAR | |
| C602 | QFN81HJ-472 | 4700PF 50V MYLAR | |
| C603 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | |
| C604 | QCSB1HK-3R9 | 3.9PF 50V CERAMIC | |
| C605 | QCBB1HK-471 | 470PF 50V CERAMIC | |
| C606 | QEN51HM-106 | 10MF 50V NON POLE | |
| C607 | QETB1CM-476 | 47MF 16V ELECTRO | |
| C608 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | |
| C609 | QETB1AM-476 | 47MF 10V ELECTRO | |
| C610 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | |
| C611 | QCBB1HK-101 | 100PF 50V CERAMIC | |
| C612 | QFV81HJ-183 | 0.018MF 50V T.FILM | |
| C650 | QETB1HM-105 | 1MF 50V ELECTRO | |
| C651 | QCBB1HK-101 | 100PF 50V CERAMIC | |
| C652 | QETB1CM-107 | 100MF 16V ELECTRO | |
| C653 | QFV81HJ-473 | 0.047MF 50V T.FILM | |
| C654 | QETB1EM-106 | 10MF 25V ELECTRO | |
| C703 | QETB1CM-476 | 47MF 16V ELECTRO | |
| C704 | QETB1CM-476 | 47MF 16V ELECTRO | |
| C705 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | |
| C706 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | |
| C707 | QFV81HJ-103 | 0.01MF 50V T.FILM | |
| C708 | QFV81HJ-103 | 0.01MF 50V T.FILM | |
| C709 | QFN81HJ-182 | 1800PF 50V MYLAR | |
| C710 | QFN81HJ-182 | 1800PF 50V MYLAR | |
| C711 | QFV81HJ-683 | 0.068MF 50V T.FILM | |
| C712 | QFV81HJ-683 | 0.068MF 50V T.FILM | |
| C715 | QCS21HJ-221 | 220PF 50V CERAMIC | |
| C716 | QCS21HJ-221 | 220PF 50V CERAMIC | |
| C717 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | |
| C718 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | |
| C719 | QCS21HJ-221 | 220PF 50V CERAMIC | |
| C720 | QCS21HJ-221 | 220PF 50V CERAMIC | |
| C721 | QCS21HJ-221 | 220PF 50V CERAMIC | |
| C722 | QCS21HJ-221 | 220PF 50V CERAMIC | |
| C723 | QFN81HJ-562 | 5600PF 50V MYLAR | |
| C724 | QFN81HJ-562 | 5600PF 50V MYLAR | |
| C743 | QCVB1CM-103 | 0.01MF 16V CERAMIC | |
| C744 | QETB1AM-107 | 100MF 10V ELECTRO | |
| C750 | QCS21HJ-680 | 68PF 50V CERAMIC | |
| C751 | QCZ0205-155 | 1.5MF 25V CERAMIC | |
| C752 | QCZ0205-155 | 1.5MF 25V CERAMIC | |

△ : SAFETY PARTS

CAPACITORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|------|-------------|-------------|------|----------|------|
| | C753 | QCZ0205-155 | 1.5MF | 25V | CERAMIC | |
| | C754 | QCZ0205-155 | 1.5MF | 25V | CERAMIC | |
| | C755 | QCHB1EZ-223 | 0.022MF | 25V | CERAMIC | |
| | C756 | QCZ0205-155 | 1.5MF | 25V | CERAMIC | |
| | C757 | QCZ0205-155 | 1.5MF | 25V | CERAMIC | |
| | C758 | QCT30CH-120 | 12PF | 50V | CERAMIC | |
| | C771 | QETB0JM-477 | 470MF | 6.3V | ELECTRO | |
| | C772 | QETB0JM-477 | 470MF | 6.3V | ELECTRO | |
| | C773 | QETB1AM-107 | 100MF | 10V | ELECTRO | |
| | C780 | QCS21HJ-5R0 | 5PF | 50V | CERAMIC | H |
| | C780 | QCS21HJ-270 | 27PF | 50V | CERAMIC | I |
| | C780 | QCS21HJ-5R0 | 5PF | 50V | CERAMIC | J |
| | C781 | QCS21HJ-100 | 10PF | 50V | CERAMIC | |
| | C795 | QCT30CH-3R9 | 3.9PF | 50V | CERAMIC | |
| | C801 | QEN51HM-225 | 2.2MF | 50V | NON POLE | |
| | C802 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C803 | QETB1AM-107 | 100MF | 10V | ELECTRO | |
| | C824 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C825 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C831 | QCHB1EZ-223 | 0.022MF | 25V | CERAMIC | |
| | C832 | QCHB1EZ-223 | 0.022MF | 25V | CERAMIC | |
| | C833 | QCHB1EZ-223 | 0.022MF | 25V | CERAMIC | |
| | C834 | QCHB1EZ-223 | 0.022MF | 25V | CERAMIC | |
| | C851 | QFN81HJ-272 | 2700PF | 50V | MYLAR | |
| | C852 | QCB1HK-101 | 100PF | 50V | CERAMIC | |
| | C853 | QEN51HM-225 | 2.2MF | 50V | NON POLE | |
| | C870 | QETB1HM-474 | 0.47MF | 50V | ELECTRO | |
| | C871 | QCHB1EZ-223 | 0.022MF | 25V | CERAMIC | |
| | C872 | QCHB1EZ-223 | 0.022MF | 25V | CERAMIC | |
| | C873 | QCHB1EZ-223 | 0.022MF | 25V | CERAMIC | |
| | C890 | QETB1HM-474 | 0.47MF | 50V | ELECTRO | |
| | C901 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C903 | QCHB1EZ-223 | 0.022MF | 25V | CERAMIC | |
| | C906 | QETB1HM-226 | 22MF | 50V | ELECTRO | |
| | C909 | QCHB1EZ-223 | 0.022MF | 25V | CERAMIC | |
| | C910 | QETB1AM-476 | 47MF | 10V | ELECTRO | |
| | C950 | QCC21EM-473 | 0.047MF | 25V | CERAMIC | |
| | C951 | QCC21EM-473 | 0.047MF | 25V | CERAMIC | |
| | C952 | QCC21EM-473 | 0.047MF | 25V | CERAMIC | |
| | C955 | QETB1CM-108 | 1000MF | 16V | ELECTRO | |
| | C956 | QETB1CM-108 | 1000MF | 16V | ELECTRO | |
| | C957 | QCF21HP-223 | 0.022MF | 50V | CERAMIC | |
| | C958 | QETB1EM-476 | 47MF | 25V | ELECTRO | |
| | C959 | QETB1AM-107 | 100MF | 10V | ELECTRO | |
| | C960 | QETB1AM-107 | 100MF | 10V | ELECTRO | |
| | C963 | QCC21EM-473 | 0.047MF | 25V | CERAMIC | |
| | C964 | QCC21EM-473 | 0.047MF | 25V | CERAMIC | |
| | C965 | QETB1CM-227 | 220MF | 16V | ELECTRO | |
| | C966 | QETB1CM-227 | 220MF | 16V | ELECTRO | |
| | C987 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |

RESISTORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|------|--------------|-------------|------|----------|------|
| | R401 | QRD167J-182 | 1.8K | 1/6W | CARBON | |
| | R402 | QRD167J-821 | 820 | 1/6W | CARBON | |
| | R403 | QRD167J-682 | 6.8K | 1/6W | CARBON | |
| | R404 | QRD167J-101 | 100 | 1/6W | CARBON | |
| | R406 | QRD167J-682 | 6.8K | 1/6W | CARBON | |
| | R407 | QRD167J-102 | 1K | 1/6W | CARBON | |
| | R408 | QRD167J-822 | 8.2K | 1/6W | CARBON | |
| | R409 | QRD167J-822 | 8.2K | 1/6W | CARBON | |
| | R410 | QRD167J-224 | 220K | 1/6W | CARBON | |
| | R411 | QRD167J-184 | 180K | 1/6W | CARBON | |
| | R412 | QRD167J-393 | 39K | 1/6W | CARBON | |
| | R413 | QRD167J-182 | 1.8K | 1/6W | CARBON | |
| | R414 | QRD167J-132 | 1.8K | 1/6W | CARBON | |
| | R415 | QRD167J-122 | 1.2K | 1/6W | CARBON | |
| | R416 | QRD161J-221 | 220 | 1/6W | CARBON | |
| | R417 | QRD167J-682 | 6.8K | 1/6W | CARBON | |
| | R418 | QRD167J-471 | 470 | 1/6W | CARBON | |
| | R419 | QRD167J-102 | 1K | 1/6W | CARBON | |
| | R420 | QRD167J-183 | 18K | 1/6W | CARBON | |
| | R421 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R423 | QRD161J-221 | 220 | 1/6W | CARBON | |
| | R424 | QRD161J-221 | 220 | 1/6W | CARBON | |
| | R427 | QVPA601-104A | 100K | | VARIABLE | |
| | R430 | QRD167J-561 | 560 | 1/6W | CARBON | |
| | R431 | QRD167J-561 | 560 | 1/6W | CARBON | |
| | R432 | QRD167J-561 | 560 | 1/6W | CARBON | |
| | R433 | QRD167J-561 | 560 | 1/6W | CARBON | |
| | R434 | QRD167J-472 | 4.7K | 1/6W | CARBON | |
| | R435 | QRD167J-472 | 4.7K | 1/6W | CARBON | |
| | R436 | QRD167J-472 | 4.7K | 1/6W | CARBON | |
| | R440 | QRD167J-102 | 1K | 1/6W | CARBON | |
| | R501 | QRD167J-563 | 56K | 1/6W | CARBON | |
| | R502 | QRD167J-563 | 56K | 1/6W | CARBON | |
| | R503 | QRD167J-394 | 390K | 1/6W | CARBON | |
| | R504 | QRD167J-681 | 680 | 1/6W | CARBON | |
| | R505 | QVPA603-202A | 2K | | VARIABLE | |
| | R506 | QRD167J-561 | 560 | 1/6W | CARBON | |
| | R507 | QRD167J-334 | 330K | 1/6W | CARBON | |
| | R509 | QVPA603-154A | 150K | | VARIABLE | |
| | R510 | QRD167J-223 | 22K | 1/6W | CARBON | |

RESISTORS

| Δ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|------|-------------|-------------|------|--------|------|
| | R511 | QRD167J-682 | 6.8K | 1/6W | CARBON | |
| | R512 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R513 | QRD167J-562 | 5.6K | 1/6W | CARBON | |
| | R514 | QRD167J-562 | 5.6K | 1/6W | CARBON | |
| | R515 | QRD167J-562 | 5.6K | 1/6W | CARBON | |
| | R516 | QRD167J-562 | 5.6K | 1/6W | CARBON | |
| | R517 | QRD167J-183 | 18K | 1/6W | CARBON | |
| | R519 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R520 | QRD167J-224 | 220K | 1/6W | CARBON | |
| | R521 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| | R523 | QRD167J-434 | 430K | 1/6W | CARBON | |
| | R524 | QRD167J-434 | 430K | 1/6W | CARBON | |
| | R525 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R526 | QRD167J-183 | 18K | 1/6W | CARBON | |
| | R527 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R528 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R529 | QRD167J-681 | 680 | 1/6W | CARBON | |
| | R530 | QRD167J-183 | 18K | 1/6W | CARBON | |
| | R531 | QRD167J-184 | 180K | 1/6W | CARBON | |
| | R532 | QRD167J-102 | 1K | 1/6W | CARBON | |
| | R533 | QRD167J-562 | 5.6K | 1/6W | CARBON | |
| | R534 | QRD167J-183 | 18K | 1/6W | CARBON | |
| | R535 | QRD167J-183 | 18K | 1/6W | CARBON | |
| | R537 | QRD167J-470 | 47 | 1/6W | CARBON | |
| | R538 | QRD167J-562 | 5.6K | 1/6W | CARBON | |
| | R541 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R551 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R552 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R553 | QRD167J-394 | 390K | 1/6W | CARBON | |
| | R554 | QRD167J-394 | 390K | 1/6W | CARBON | |
| | R557 | QRD167J-681 | 680 | 1/6W | CARBON | |
| | R558 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R559 | QRD167J-331 | 330 | 1/6W | CARBON | |
| | R560 | QRD167J-333 | 33K | 1/6W | CARBON | |
| | R561 | QRD167J-273 | 27K | 1/6W | CARBON | |
| | R562 | QRD167J-394 | 390K | 1/6W | CARBON | |
| | R563 | QRD167J-182 | 1.8K | 1/6W | CARBON | |
| | R564 | QRD167J-121 | 120 | 1/6W | CARBON | |
| | R565 | QRD167J-335 | 3.3M | 1/6W | CARBON | |
| | R567 | QRD167J-105 | 1M | 1/6W | CARBON | |
| | R568 | QRD167J-470 | 47 | 1/6W | CARBON | |
| | R569 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R570 | QRD167J-272 | 2.7K | 1/6W | CARBON | |
| | R571 | QRD167J-682 | 6.8K | 1/6W | CARBON | |
| | R572 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R573 | QRD167J-562 | 5.6K | 1/6W | CARBON | |
| | R574 | QRD167J-105 | 1M | 1/6W | CARBON | |
| | R575 | QRD167J-105 | 1M | 1/6W | CARBON | |
| | R576 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R577 | QRD167J-562 | 5.6K | 1/6W | CARBON | |
| | R579 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R580 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R583 | QRD167J-183 | 18K | 1/6W | CARBON | |
| | R590 | QRD167J-470 | 47 | 1/6W | CARBON | |
| | R601 | QRD167J-183 | 18K | 1/6W | CARBON | |
| | R602 | QRD167J-432 | 4.3K | 1/6W | CARBON | |
| | R603 | QRD167J-391 | 390 | 1/6W | CARBON | |
| | R604 | QRD161J-221 | 220 | 1/6W | CARBON | |
| | R605 | QRD167J-152 | 1.5K | 1/6W | CARBON | |
| | R606 | QRD167J-561 | 560 | 1/6W | CARBON | |
| | R607 | QRD167J-561 | 560 | 1/6W | CARBON | |
| | R608 | QRD167J-562 | 5.6K | 1/6W | CARBON | |
| | R609 | QRD167J-152 | 1.5K | 1/6W | CARBON | |
| | R610 | QRD167J-271 | 270 | 1/6W | CARBON | |
| | R611 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| | R650 | QRD167J-102 | 1K | 1/6W | CARBON | |
| | R651 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R652 | QRD167J-272 | 2.7K | 1/6W | CARBON | |
| | R656 | QRD167J-391 | 390 | 1/6W | CARBON | |
| | R657 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R658 | QRD167J-562 | 5.6K | 1/6W | CARBON | |
| | R659 | QRD167J-472 | 4.7K | 1/6W | CARBON | |
| | R660 | QRD167J-822 | 8.2K | 1/6W | CARBON | |
| | R661 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R711 | QRD167J-151 | 150 | 1/6W | CARBON | |
| | R712 | QRD167J-151 | 150 | 1/6W | CARBON | |
| | R713 | QRD167J-273 | 27K | 1/6W | CARBON | |
| | R714 | QRD167J-273 | 27K | 1/6W | CARBON | |
| | R715 | QRD167J-472 | 4.7K | 1/6W | CARBON | |
| | R716 | QRD167J-472 | 4.7K | 1/6W | CARBON | |
| | R719 | QRD167J-112 | 1.1K | 1/6W | CARBON | |
| | R720 | QRD167J-112 | 1.1K | 1/6W | CARBON | |
| | R721 | QRD167J-681 | 680 | 1/6W | CARBON | |
| | R722 | QRD167J-681 | 680 | 1/6W | CARBON | |
| | R723 | QRD167J-511 | 510 | 1/6W | CARBON | |
| | R724 | QRD167J-511 | 510 | 1/6W | CARBON | |
| | R725 | QRD167J-241 | 240 | 1/6W | CARBON | |
| | R726 | QRD167J-241 | 240 | 1/6W | CARBON | |
| | R727 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R728 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R729 | QRD167J-392 | 3.9K | 1/6W | CARBON | |
| | R730 | QRD167J-392 | 3.9K | 1/6W | CARBON | |
| | R733 | QRD167J-183 | 18K | 1/6W | CARBON | |
| | R734 | QRD167J-183 | 18K | 1/6W | CARBON | |
| | R735 | QRD167J-183 | 18K | 1/6W | CARBON | |

Δ : SAFETY PARTS

Δ : SAFETY PARTS

RESISTORS

OTHERS

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|-------|----------------|---------------------|------|
| R736 | QRD167J-183 | 18K 1/6W CARBON | |
| R740 | QRD167J-154 | 150K 1/6W CARBON | |
| R743 | QRD167J-684 | 680K 1/6W CARBON | |
| R753 | QRD167J-101 | 100 1/6W CARBON | |
| R755 | QRD167J-181 | 180 1/6W CARBON | |
| R756 | QRD167J-472 | 4.7K 1/6W CARBON | |
| R758 | QRD167J-560 | 56 1/6W CARBON | |
| R761 | QRD167J-243 | 24K 1/6W CARBON | |
| R762 | QRD167J-243 | 24K 1/6W CARBON | |
| R765 | QRD167J-243 | 24K 1/6W CARBON | |
| R766 | QRD167J-243 | 24K 1/6W CARBON | |
| R791 | QRV144F-1802 | 18K 1/4W M.FILM | |
| R792 | QRV144F-1802 | 18K 1/4W M.FILM | |
| R793 | QRV144F-1802 | 18K 1/4W M.FILM | |
| R794 | QRV144F-1802 | 18K 1/4W M.FILM | |
| R795 | QRV144F-1802 | 18K 1/4W M.FILM | |
| R796 | QRV144F-1802 | 18K 1/4W M.FILM | |
| R797 | QRV144F-1802 | 18K 1/4W M.FILM | |
| R798 | QRV144F-1802 | 18K 1/4W M.FILM | |
| R801 | QRD167J-334 | 330K 1/6W CARBON | |
| R802 | QRD167J-564 | 560K 1/6W CARBON | |
| R803 | QRD167J-153 | 15K 1/6W CARBON | |
| R804 | QRD167J-184 | 180K 1/6W CARBON | |
| R805 | QRD167J-562 | 5.6K 1/6W CARBON | |
| R806 | QRD167J-392 | 3.9K 1/6W CARBON | |
| R808 | QRD167J-103 | 10K 1/6W CARBON | |
| R809 | QRD167J-302 | 3K 1/6W CARBON | |
| R810 | QRD167J-102 | 1K 1/6W CARBON | |
| R811 | QRD167J-394 | 390K 1/6W CARBON | |
| R812 | QRD167J-183 | 18K 1/6W CARBON | |
| R813 | QRD167J-273 | 27K 1/6W CARBON | |
| R814 | QRD167J-470 | 47 1/6W CARBON | |
| R820 | QRD161J-221 | 220 1/6W CARBON | |
| R821 | QRD161J-221 | 220 1/6W CARBON | |
| R822 | QRD161J-221 | 220 1/6W CARBON | |
| R823 | QRD161J-221 | 220 1/6W CARBON | |
| R824 | QRD161J-221 | 220 1/6W CARBON | |
| R825 | QRD161J-221 | 220 1/6W CARBON | |
| R841 | QRD167J-243 | 24K 1/6W CARBON | |
| R842 | QRD167J-183 | 18K 1/6W CARBON | |
| R843 | QRD167J-203 | 20K 1/6W CARBON | |
| R844 | QRD167J-183 | 18K 1/6W CARBON | |
| R845 | QRD167J-820 | 82 1/6W CARBON | |
| R851 | QRD167J-684 | 680K 1/6W CARBON | |
| R852 | QRD167J-684 | 680K 1/6W CARBON | |
| R853 | QRD167J-823 | 82K 1/6W CARBON | |
| R855 | QRD167J-683 | 68K 1/6W CARBON | |
| R856 | QRD167J-123 | 12K 1/6W CARBON | |
| R857 | QRD167J-152 | 1.5K 1/6W CARBON | |
| R858 | QRD167J-2R2 | 2.2 1/6W CARBON | |
| R859 | QRD167J-470 | 47 1/6W CARBON | |
| R870 | QRD167J-103 | 10K 1/6W CARBON | |
| R871 | QRD167J-153 | 15K 1/6W CARBON | |
| R872 | QRD167J-103 | 10K 1/6W CARBON | |
| R873 | QRD167J-123 | 12K 1/6W CARBON | |
| R874 | QRD167J-362 | 3.6K 1/6W CARBON | |
| R875 | QRD167J-393 | 39K 1/6W CARBON | |
| R878 | QRD167J-153 | 15K 1/6W CARBON | |
| R879 | QRD167J-470 | 47 1/6W CARBON | |
| R880 | QRD167J-153 | 15K 1/6W CARBON | |
| R881 | QRD167J-393 | 39K 1/6W CARBON | |
| R882 | QRD167J-123 | 12K 1/6W CARBON | |
| R883 | QRD167J-153 | 15K 1/6W CARBON | |
| R884 | QRD167J-103 | 10K 1/6W CARBON | |
| R885 | QRD167J-470 | 47 1/6W CARBON | |
| R888 | QRD167J-153 | 15K 1/6W CARBON | |
| R890 | QRD167J-104 | 100K 1/6W CARBON | |
| R892 | QRD167J-151 | 150 1/6W CARBON | |
| R901 | QRD167J-821 | 820 1/6W CARBON | |
| R902 | QRD167J-473 | 47K 1/6W CARBON | |
| R903 | QRD167J-472 | 4.7K 1/6W CARBON | |
| R904 | QRD167J-103 | 10K 1/6W CARBON | |
| R906 | QRD167J-103 | 10K 1/6W CARBON | |
| R907 | QRD167J-103 | 10K 1/6W CARBON | |
| R908 | QRD167J-103 | 10K 1/6W CARBON | |
| R909 | QRD167J-103 | 10K 1/6W CARBON | |
| R910 | QRD167J-103 | 10K 1/6W CARBON | |
| R911 | QRD167J-103 | 10K 1/6W CARBON | |
| R912 | QRD167J-103 | 10K 1/6W CARBON | |
| R913 | QRD167J-103 | 10K 1/6W CARBON | |
| R951 | PTH61G30BD2R2N | FUSIBLE RESISTOR | |
| R952 | PTH61G30BD2R2N | FUSIBLE RESISTOR | |
| R953 | QRD167J-104 | 100K 1/6W CARBON | |
| R954 | QRD167J-104 | 100K 1/6W CARBON | |
| R955 | QRD167J-222 | 2.2K 1/6W CARBON | |
| R956 | QRD161J-221 | 220 1/6W CARBON | |
| R959 | QRZ0077-100 | 10 1/4W FUSIBLE | |
| R960 | QRZ0077-100 | 10 1/4W FUSIBLE | |
| R968 | QRD167J-222 | 2.2K 1/6W CARBON | |
| R969 | QRD161J-221 | 220 1/6W CARBON | |
| R975 | QRD167J-102 | 1K 1/6W CARBON | |
| R976 | QRD167J-821 | 820 1/6W CARBON | |
| R987 | QRD167J-101 | 100 1/6W CARBON | |
| RA901 | QRB049J-473 | 47K 1/10W R.NETWORK | |

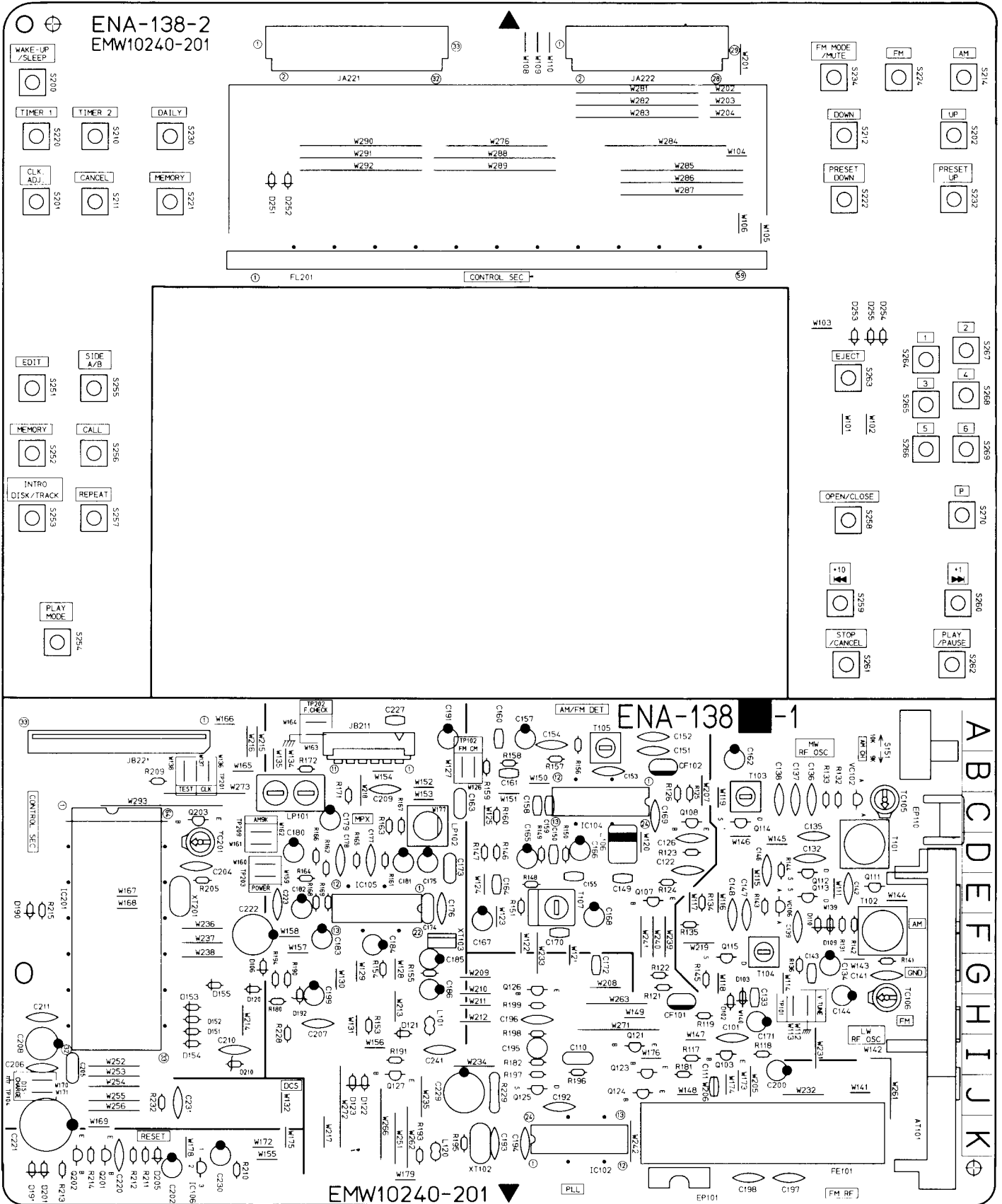
△ : SAFETY PARTS

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|-------|---------------|----------------|------|
| | E3400-431 | FELT SPACER | |
| | E70225-001 | EARTH PLATE | |
| | E70306-001 | HEAT SINK | |
| | E70859-001 | EARTH PLATE | |
| | SBSE3008Z | SCREW | |
| K732 | ENZ8101-007 | INDUCTOR | H |
| K732 | ENZ8101-007 | INDUCTOR | J |
| L924 | EQL4004-1R0 | INDUCTOR | H |
| L924 | EQL4004-1R0 | INDUCTOR | J |
| P501 | EMV5109-010A | PLUG ASSY10PIN | |
| P502 | EMV5109-004A | PLUG ASSY4PIN | |
| P901 | EMV7123-029 | CONNECTOR29PIN | |
| P951 | EMV7141-013M | CONNECTOR13PIN | |
| X751 | ECX0169-344EA | RESONATOR | |
| X901 | ECX0060-000EM | RESONATOR | |
| CP951 | ICP-N5 | I.C. PROTECTOR | I |
| CP951 | ICP-N5 | I.C. PROTECTOR | J |
| FW801 | EWR36B-10KST | FLAT WIRE6PIN | |
| FW803 | EWR37B-10KST | FLAT WIRE7PIN | |
| FW831 | EWR37B-10KST | FLAT WIRE7PIN | |

△ : SAFETY PARTS

■ ENN-138 □ CD PC Board Ass'y

Note : ENN-138 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

| PC Board Ass'y | Designated Areas |
|------------------|-----------------------------------|
| ENA-138 C | Australia |
| ENA-138 F | the U.K. |
| ENA-138 A | Canada |
| ENA-138 D | Scandinavia Continental Europe |
| ENA-138 E | Germany |
| ENA-138 G | Italy |
| ENA-138 A | the U.S.A. |
| ENA-138 B | Universal Type Taiwan |

TRANSISTORS

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|--------------|------------------|------|
| Q103 | 2SC461(B,C) | SILICON HITACHI | |
| Q107 | 2SC535(B,C) | SILICON HITACHI | |
| Q108 | 2SC461(B,C) | SILICON HITACHI | |
| Q111 | 2SD2144S(VW) | SILICON ROHM | D |
| Q111 | 2SD2144S(VW) | SILICON ROHM | E |
| Q111 | 2SD2144S(VW) | SILICON ROHM | F |
| Q111 | 2SD2144S(VW) | SILICON ROHM | G |
| Q112 | 2SK301(Q,R) | F.E.T MATSUSHITA | |
| Q113 | 2SK301(Q,R) | F.E.T MATSUSHITA | D |
| Q113 | 2SK301(Q,R) | F.E.T MATSUSHITA | E |
| Q113 | 2SK301(Q,R) | F.E.T MATSUSHITA | F |
| Q113 | 2SK301(Q,R) | F.E.T MATSUSHITA | G |
| Q114 | 2SK301(P,Q) | F.E.T MATSUSHITA | D |
| Q114 | 2SK301(P,Q) | F.E.T MATSUSHITA | E |
| Q114 | 2SK301(P,Q) | F.E.T MATSUSHITA | F |
| Q114 | 2SK301(P,Q) | F.E.T MATSUSHITA | G |
| Q115 | 2SK301(P,Q) | F.E.T MATSUSHITA | D |
| Q115 | 2SK301(P,Q) | F.E.T MATSUSHITA | E |
| Q115 | 2SK301(P,Q) | F.E.T MATSUSHITA | F |
| Q115 | 2SK301(P,Q) | F.E.T MATSUSHITA | G |
| Q121 | DTA144ES | SILICON ROHM | D |
| Q121 | DTA144ES | SILICON ROHM | E |
| Q121 | DTA144ES | SILICON ROHM | F |
| Q121 | DTA144ES | SILICON ROHM | G |
| Q123 | DTA144ES | SILICON ROHM | |
| Q124 | DTA144ES | SILICON ROHM | |
| Q125 | 2SK301(Q2) | F.E.T MATSUSHITA | |
| Q126 | 2SC458(D) | SILICON HITACHI | |
| Q127 | DTA144ES | SILICON ROHM | |
| Q201 | 2SC1740(R,S) | SILICON ROHM | |
| Q202 | DTA114YS | SILICON ROHM | |
| Q203 | DTA114YS | SILICON ROHM | |

I. C. S.

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|-------|--------------|-----------------|------|
| IC102 | LC7218 | I.C. SANYO | |
| IC104 | LA1266A | I.C. SANYO | |
| IC105 | LA3401 | I.C. SANYO | |
| IC106 | MN1281(P,Q) | I.C. MATSUSHITA | |
| IC201 | HD614089SC91 | I.C. HITACHI | |

DIODES

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|-------------|--------------|------|
| D102 | 1SS133 | SILICON ROHM | D |
| D102 | 1SS133 | SILICON ROHM | E |
| D102 | 1SS133 | SILICON ROHM | F |
| D102 | 1SS133 | SILICON ROHM | G |
| D103 | 1SS133 | SILICON ROHM | D |
| D103 | 1SS133 | SILICON ROHM | E |
| D103 | 1SS133 | SILICON ROHM | F |
| D103 | 1SS133 | SILICON ROHM | G |
| D106 | 1SS133 | SILICON ROHM | D |
| D109 | 1SS133 | SILICON ROHM | E |
| D109 | 1SS133 | SILICON ROHM | F |
| D109 | 1SS133 | SILICON ROHM | G |
| D109 | 1SS133 | SILICON ROHM | D |
| D110 | 1SS133 | SILICON ROHM | E |
| D110 | 1SS133 | SILICON ROHM | F |
| D110 | 1SS133 | SILICON ROHM | G |

△ : SAFETY PARTS

DIODES

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|-------|-------------|---------------|------|
| D110 | 1SS133 | SILICON ROHM | F |
| D110 | 1SS133 | SILICON ROHM | G |
| D120 | 1SS133 | SILICON ROHM | |
| D121 | 1SS133 | SILICON ROHM | |
| D122 | 1SS133 | SILICON ROHM | |
| D123 | 1SS133 | SILICON ROHM | |
| D151 | 1SS133 | SILICON ROHM | C |
| D152 | 1SS133 | SILICON ROHM | A |
| D153 | 1SS133 | SILICON ROHM | B |
| D154 | 1SS133 | SILICON ROHM | A |
| D154 | 1SS133 | SILICON ROHM | G |
| D155 | 1SS133 | SILICON ROHM | A |
| D155 | 1SS133 | SILICON ROHM | B |
| D155 | 1SS133 | SILICON ROHM | C |
| D190 | 1SS133 | SILICON ROHM | |
| D191 | 1SS133 | SILICON ROHM | |
| D192 | MTZ5.1JC | ZENER ROHM | |
| D201 | 1SS133 | SILICON ROHM | |
| D205 | 1SS133 | SILICON ROHM | |
| D210 | MTZ5.6JC | ZENER ROHM | |
| D251 | 1SS133 | SILICON ROHM | |
| D252 | 1SS133 | SILICON ROHM | |
| D253 | 1SS133 | SILICON ROHM | |
| D254 | 1SS133 | SILICON ROHM | |
| D255 | 1SS133 | SILICON ROHM | |
| VC102 | SVC342(L) | VARICAP SANYO | |
| VC106 | SVC342(L) | VARICAP SANYO | D |
| VC106 | SVC342(L) | VARICAP SANYO | E |
| VC106 | SVC342(L) | VARICAP SANYO | F |
| VC106 | SVC342(L) | VARICAP SANYO | G |

CAPACITORS

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|-------------|---------------------|------|
| C101 | QCF21HP-223 | 0.022MF 50V CERAMIC | |
| C110 | QCZ0202-155 | 1.5MF 25V CERAMIC | |
| C122 | QCF21HP-223 | 0.022MF 50V CERAMIC | |
| C126 | QCF21HP-223 | 0.022MF 50V CERAMIC | |
| C132 | QCS21HJ-561 | 560PF 50V CERAMIC | |
| C133 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | |
| C134 | QETB1EM-106 | 10MF 25V ELECTRO | |
| C135 | QCC21EM-223 | 0.022MF 25V CERAMIC | |
| C136 | QCT26CH-180 | 18PF 50V CERAMIC | |
| C137 | QCT26CH-221 | 220PF 50V CERAMIC | |
| C138 | QCT26CH-241 | 240PF 50V CERAMIC | |
| C139 | QCC21EM-223 | 0.022MF 25V CERAMIC | D |
| C139 | QCC21EM-223 | 0.022MF 25V CERAMIC | E |
| C139 | QCC21EM-223 | 0.022MF 25V CERAMIC | F |
| C139 | QCC21EM-223 | 0.022MF 25V CERAMIC | G |
| C139 | QCC21EM-223 | 0.022MF 25V CERAMIC | D |
| C141 | QCS21HJ-270 | 27PF 50V CERAMIC | D |
| C141 | QCS21HJ-270 | 27PF 50V CERAMIC | E |
| C141 | QCS21HJ-270 | 27PF 50V CERAMIC | F |
| C141 | QCS21HJ-270 | 27PF 50V CERAMIC | G |
| C142 | QCY21HK-272 | 2700PF 50V CERAMIC | D |
| C142 | QCY21HK-272 | 2700PF 50V CERAMIC | E |
| C142 | QCY21HK-272 | 2700PF 50V CERAMIC | F |
| C142 | QCY21HK-272 | 2700PF 50V CERAMIC | G |
| C143 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | D |
| C143 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | E |
| C143 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | F |
| C143 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | G |
| C144 | QETB1EM-106 | 10MF 25V ELECTRO | D |
| C144 | QETB1EM-106 | 10MF 25V ELECTRO | E |
| C144 | QETB1EM-106 | 10MF 25V ELECTRO | F |
| C144 | QETB1EM-106 | 10MF 25V ELECTRO | G |
| C146 | QCT26CH-680 | 68PF 50V CERAMIC | D |
| C146 | QCT26CH-680 | 68PF 50V CERAMIC | E |
| C146 | QCT26CH-680 | 68PF 50V CERAMIC | F |
| C146 | QCT26CH-680 | 68PF 50V CERAMIC | G |
| C147 | QCT26CH-220 | 22PF 50V CERAMIC | D |
| C147 | QCT26CH-220 | 22PF 50V CERAMIC | E |
| C147 | QCT26CH-220 | 22PF 50V CERAMIC | F |
| C147 | QCT26CH-220 | 22PF 50V CERAMIC | G |
| C148 | QCT26CH-121 | 120PF 50V CERAMIC | D |
| C148 | QCT26CH-121 | 120PF 50V CERAMIC | E |
| C148 | QCT26CH-121 | 120PF 50V CERAMIC | F |
| C148 | QCT26CH-121 | 120PF 50V CERAMIC | G |
| C149 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | |
| C150 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | |
| C151 | QCF21HP-223 | 0.022MF 50V CERAMIC | |
| C152 | QCF21HP-223 | 0.022MF 50V CERAMIC | |
| C153 | QCC21EM-223 | 0.022MF 25V CERAMIC | |
| C154 | QCF21HP-223 | 0.022MF 50V CERAMIC | |
| C155 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | |
| C157 | QETB1EM-474 | 0.47MF 50V ELECTRO | |
| C158 | QCB1HK-101 | 100PF 50V CERAMIC | |
| C159 | QCB1HK-101 | 100PF 50V CERAMIC | |
| C160 | QCB1HK-221 | 220PF 50V CERAMIC | |
| C161 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | |

△ : SAFETY PARTS

CAPACITORS

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|--------------|---------------------|------|
| C162 | QETB1EM-106 | 10MF 25V ELECTRO | |
| C163 | QFLB1HJ-102 | 1000PF 50V MYLAR | |
| C164 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | |
| C165 | QETB1HM-474 | 0.47MF 50V ELECTRO | |
| C166 | QETB1HM-225 | 2.2MF 50V ELECTRO | |
| C167 | QETB1HM-225 | 2.2MF 50V ELECTRO | |
| C168 | QETB1HM-475 | 4.7MF 50V ELECTRO | |
| C169 | QCF21HP-223 | 0.022MF 50V CERAMIC | |
| C170 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | |
| C171 | QETB1EM-106 | 10MF 25V ELECTRO | |
| C172 | QCVB1CM-103 | 0.01MF 16V CERAMIC | |
| C173 | QFLB1HJ-393 | 0.039MF 50V MYLAR | A |
| C173 | QFLB1HJ-393 | 0.039MF 50V MYLAR | B |
| C173 | QFLB1HJ-223 | 0.022MF 50V MYLAR | C |
| C173 | QFLB1HJ-223 | 0.022MF 50V MYLAR | D |
| C173 | QFLB1HJ-223 | 0.022MF 50V MYLAR | E |
| C173 | QFLB1HJ-223 | 0.022MF 50V MYLAR | F |
| C173 | QFLB1HJ-223 | 0.022MF 50V MYLAR | G |
| C174 | QFLB1HJ-473 | 0.047MF 50V MYLAR | |
| C175 | QETB1EM-106 | 10MF 25V ELECTRO | |
| C176 | QCY21HK-102 | 1000PF 50V CERAMIC | |
| C177 | QCS21HJ-821 | 820PF 50V CERAMIC | A |
| C177 | QCS21HJ-821 | 820PF 50V CERAMIC | B |
| C177 | QCS21HJ-561 | 560PF 50V CERAMIC | C |
| C177 | QCS21HJ-561 | 560PF 50V CERAMIC | D |
| C177 | QCS21HJ-561 | 560PF 50V CERAMIC | E |
| C177 | QCS21HJ-821 | 820PF 50V CERAMIC | F |
| C177 | QCS21HJ-561 | 560PF 50V CERAMIC | G |
| C178 | QCS21HJ-821 | 820PF 50V CERAMIC | A |
| C178 | QCS21HJ-821 | 820PF 50V CERAMIC | B |
| C178 | QCS21HJ-561 | 560PF 50V CERAMIC | C |
| C178 | QCS21HJ-561 | 560PF 50V CERAMIC | D |
| C178 | QCS21HJ-561 | 560PF 50V CERAMIC | E |
| C178 | QCS21HJ-821 | 820PF 50V CERAMIC | F |
| C178 | QCS21HJ-561 | 560PF 50V CERAMIC | G |
| C179 | QETB1HM-225 | 2.2MF 50V ELECTRO | |
| C180 | QETB1HM-225 | 2.2MF 50V ELECTRO | |
| C181 | QETB1EM-106 | 10MF 25V ELECTRO | |
| C182 | QETB1HM-225 | 2.2MF 50V ELECTRO | |
| C183 | QETB1HM-105 | 1MF 50V ELECTRO | |
| C184 | QETB1HM-105 | 1MF 50V ELECTRO | |
| C185 | QETB1HM-225 | 2.2MF 50V ELECTRO | |
| C186 | QETB1HM-474 | 0.47MF 50V ELECTRO | |
| C191 | QETB1HM-475 | 4.7MF 50V ELECTRO | |
| C192 | QCC21EM-473 | 0.047MF 25V CERAMIC | |
| C193 | QCS21HJ-180 | 18PF 50V CERAMIC | |
| C194 | QCS21HJ-180 | 18PF 50V CERAMIC | |
| C195 | QENB1HM-474 | 0.47MF 50V NON POLE | |
| C196 | QCY21HK-102 | 1000PF 50V CERAMIC | |
| C197 | QCF21HP-223 | 0.022MF 50V CERAMIC | |
| C198 | QCF21HP-103 | 0.01MF 50V CERAMIC | |
| C199 | QETB1HM-475 | 4.7MF 50V ELECTRO | |
| C200 | QETB1HM-476 | 47MF 50V ELECTRO | E |
| C200 | QETB1HM-476 | 47MF 50V ELECTRO | G |
| C202 | QETB1HM-225 | 2.2MF 50V ELECTRO | |
| C204 | QCT26CH-120 | 12PF 50V CERAMIC | |
| C205 | QCY202-155 | 1.5MF 25V CERAMIC | |
| C206 | QCY21HK-102 | 1000PF 50V CERAMIC | |
| C207 | QCF21HP-223 | 0.022MF 50V CERAMIC | |
| C208 | QETB1AM-477 | 470MF 10V ELECTRO | |
| C209 | QCF21HP-103 | 0.01MF 50V CERAMIC | |
| C210 | QCF21HP-103 | 0.01MF 50V CERAMIC | |
| C211 | QCF21HP-103 | 0.01MF 50V CERAMIC | |
| C220 | QCF21HP-103 | 0.01MF 50V CERAMIC | |
| C221 | QEA40HZ-10AB | ELECTRO | |
| C222 | QETB1CM-477 | 470MF 16V ELECTRO | |
| C223 | QCF21HP-103 | 0.01MF 50V CERAMIC | |
| C227 | QCVB1CM-103 | 0.01MF 16V CERAMIC | |
| C229 | QETB1CM-227 | 220MF 16V ELECTRO | |
| C230 | QETB1EM-476 | 47MF 25V ELECTRO | |
| C231 | QCF21HP-103 | 0.01MF 50V CERAMIC | |
| C241 | QCF21HP-223 | 0.022MF 50V CERAMIC | |

RESISTORS

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|-------------|------------------|------|
| R118 | QRD167J-332 | 3.3K 1/6W CARBON | |
| R119 | QRD161J-221 | 220 1/6W CARBON | |
| R121 | QRD167J-391 | 390 1/6W CARBON | |
| R122 | QRD167J-272 | 2.7K 1/6W CARBON | |
| R123 | QRD167J-102 | 1K 1/6W CARBON | |
| R124 | QRD167J-681 | 680 1/6W CARBON | |
| R125 | QRD167J-332 | 3.3K 1/6W CARBON | |
| R126 | QRD161J-221 | 220 1/6W CARBON | |
| R131 | QRD167J-331 | 330 1/6W CARBON | |
| R132 | QRD167J-103 | 10K 1/6W CARBON | |

△ : SAFETY PARTS

RESISTORS

| ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|-------------|------------------|------|
| R133 | QRD167J-473 | 47K 1/6W CARBON | |
| R134 | QRD167J-103 | 10K 1/6W CARBON | D |
| R134 | QRD167J-103 | 10K 1/6W CARBON | E |
| R134 | QRD167J-103 | 10K 1/6W CARBON | F |
| R134 | QRD167J-103 | 10K 1/6W CARBON | G |
| R135 | QRD167J-470 | 47 1/6W CARBON | |
| R136 | QRD167J-103 | 10K 1/6W CARBON | |
| R141 | QRD167J-472 | 4.7K 1/6W CARBON | D |
| R141 | QRD167J-472 | 4.7K 1/6W CARBON | E |
| R141 | QRD167J-472 | 4.7K 1/6W CARBON | F |
| R141 | QRD167J-472 | 4.7K 1/6W CARBON | G |
| R142 | QRD167J-331 | 330 1/6W CARBON | D |
| R142 | QRD167J-331 | 330 1/6W CARBON | E |
| R142 | QRD167J-331 | 330 1/6W CARBON | F |
| R142 | QRD167J-331 | 330 1/6W CARBON | G |
| R143 | QRD167J-103 | 10K 1/6W CARBON | D |
| R143 | QRD167J-103 | 10K 1/6W CARBON | E |
| R143 | QRD167J-103 | 10K 1/6W CARBON | F |
| R143 | QRD167J-103 | 10K 1/6W CARBON | G |
| R144 | QRD167J-473 | 47K 1/6W CARBON | D |
| R144 | QRD167J-473 | 47K 1/6W CARBON | E |
| R144 | QRD167J-473 | 47K 1/6W CARBON | F |
| R144 | QRD167J-473 | 47K 1/6W CARBON | G |
| R145 | QRD167J-103 | 10K 1/6W CARBON | D |
| R145 | QRD167J-103 | 10K 1/6W CARBON | E |
| R145 | QRD167J-103 | 10K 1/6W CARBON | F |
| R145 | QRD167J-103 | 10K 1/6W CARBON | G |
| R146 | QRD167J-560 | 56 1/6W CARBON | |
| R147 | QRD167J-103 | 10K 1/6W CARBON | |
| R148 | QRD167J-103 | 10K 1/6W CARBON | |
| R149 | QRD167J-223 | 22K 1/6W CARBON | A |
| R149 | QRD167J-223 | 22K 1/6W CARBON | B |
| R149 | QRD167J-223 | 22K 1/6W CARBON | C |
| R149 | QRD167J-223 | 22K 1/6W CARBON | D |
| R149 | QRD167J-273 | 27K 1/6W CARBON | E |
| R149 | QRD167J-223 | 22K 1/6W CARBON | F |
| R149 | QRD167J-273 | 27K 1/6W CARBON | G |
| R150 | QRD167J-103 | 10K 1/6W CARBON | |
| R151 | QRD167J-222 | 2.2K 1/6W CARBON | |
| R153 | QRD167J-103 | 10K 1/6W CARBON | |
| R154 | QRD167J-103 | 10K 1/6W CARBON | |
| R155 | QRD167J-562 | 5.6K 1/6W CARBON | |
| R156 | QRD167J-822 | 8.2K 1/6W CARBON | |
| R157 | QRD167J-103 | 10K 1/6W CARBON | |
| R158 | QRD167J-183 | 18K 1/6W CARBON | A |
| R158 | QRD167J-273 | 27K 1/6W CARBON | B |
| R158 | QRD167J-273 | 27K 1/6W CARBON | C |
| R158 | QRD167J-273 | 27K 1/6W CARBON | D |
| R158 | QRD167J-273 | 27K 1/6W CARBON | E |
| R158 | QRD167J-273 | 27K 1/6W CARBON | F |
| R158 | QRD167J-273 | 27K 1/6W CARBON | G |
| R159 | QRD167J-561 | 560 1/6W CARBON | |
| R160 | QRD167J-562 | 5.6K 1/6W CARBON | A |
| R160 | QRD167J-562 | 5.6K 1/6W CARBON | B |
| R160 | QRD167J-103 | 10K 1/6W CARBON | C |
| R160 | QRD167J-103 | 10K 1/6W CARBON | D |
| R160 | QRD167J-103 | 10K 1/6W CARBON | E |
| R160 | QRD167J-102 | 1K 1/6W CARBON | F |
| R160 | QRD167J-103 | 10K 1/6W CARBON | G |
| R161 | QRD167J-823 | 82K 1/6W CARBON | A |
| R161 | QRD167J-823 | 82K 1/6W CARBON | B |
| R161 | QRD167J-104 | 100K 1/6W CARBON | C |
| R161 | QRD167J-104 | 100K 1/6W CARBON | D |
| R161 | QRD167J-104 | 100K 1/6W CARBON | E |
| R161 | QRD167J-683 | 68K 1/6W CARBON | F |
| R161 | QRD167J-104 | 100K 1/6W CARBON | G |
| R162 | QRD167J-823 | 82K 1/6W CARBON | A |
| R162 | QRD167J-823 | 82K 1/6W CARBON | B |
| R162 | QRD167J-104 | 100K 1/6W CARBON | C |
| R162 | QRD167J-104 | 100K 1/6W CARBON | D |
| R162 | QRD167J-104 | 100K 1/6W CARBON | E |
| R162 | QRD167J-683 | 68K 1/6W CARBON | F |
| R162 | QRD167J-104 | 100K 1/6W CARBON | G |
| R163 | QRD167J-472 | 4.7K 1/6W CARBON | A |
| R163 | QRD167J-472 | 4.7K 1/6W CARBON | B |
| R163 | QRD167J-332 | 3.3K 1/6W CARBON | C |
| R163 | QRD167J-332 | 3.3K 1/6W CARBON | D |
| R163 | QRD167J-332 | 3.3K 1/6W CARBON | E |
| R163 | QRD167J-332 | 3.3K 1/6W CARBON | F |
| R163 | QRD167J-332 | 3.3K 1/6W CARBON | G |
| R164 | QRD167J-472 | 4.7K 1/6W CARBON | A |
| R164 | QRD167J-472 | 4.7K 1/6W CARBON | B |
| R164 | QRD167J-332 | 3.3K 1/6W CARBON | C |
| R164 | QRD167J-332 | 3.3K 1/6W CARBON | D |
| R164 | QRD167J-332 | 3.3K 1/6W CARBON | E |
| R164 | QRD167J-332 | 3.3K 1/6W CARBON | F |
| R164 | QRD167J-332 | 3.3K 1/6W CARBON | G |
| R165 | QRD167J-184 | 180K 1/6W CARBON | A |
| R165 | QRD167J-184 | 180K 1/6W CARBON | B |
| R165 | QRD167J-274 | 270K 1/6W CARBON | C |
| R165 | QRD167J-274 | 270K 1/6W CARBON | D |
| R165 | QRD167J-274 | 270K 1/6W CARBON | E |
| R165 | QRD167J-274 | 270K 1/6W CARBON | F |
| R165 | QRD167J-274 | 270K 1/6W CARBON | G |
| R166 | QRD167J-184 | 180K 1/6W CARBON | A |

△ : SAFETY PARTS

RESISTORS

| △ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|------|--------------|-------------|------|-------------|------|
| | R166 | QRD167J-184 | 180K | 1/6W | CARBON | B |
| | R166 | QRD167J-274 | 270K | 1/6W | CARBON | C |
| | R166 | QRD167J-274 | 270K | 1/6W | CARBON | D |
| | R166 | QRD167J-274 | 270K | 1/6W | CARBON | E |
| | R166 | QRD167J-274 | 270K | 1/6W | CARBON | F |
| | R166 | QRD167J-274 | 270K | 1/6W | CARBON | G |
| | R167 | QRD167J-393 | 39K | 1/6W | CARBON | A |
| | R167 | QRD167J-393 | 39K | 1/6W | CARBON | B |
| | R167 | QRD167J-473 | 47K | 1/6W | CARBON | C |
| | R167 | QRD167J-473 | 47K | 1/6W | CARBON | D |
| | R167 | QRD167J-473 | 47K | 1/6W | CARBON | E |
| | R167 | QRD167J-473 | 47K | 1/6W | CARBON | F |
| | R167 | QRD167J-473 | 47K | 1/6W | CARBON | G |
| | R168 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R169 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R171 | QRD167J-682 | 6.8K | 1/6W | CARBON | |
| | R172 | QRD167J-682 | 6.8K | 1/6W | CARBON | |
| | R180 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R181 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| | R182 | QRD167J-181 | 180 | 1/6W | CARBON | |
| | R190 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R191 | QRD167J-562 | 5.6K | 1/6W | CARBON | |
| | R193 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R194 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R195 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R196 | QRD167J-103 | 10K | 1/6W | CARBON | A |
| | R196 | QRD167J-103 | 10K | 1/6W | CARBON | B |
| | R196 | QRD167J-103 | 10K | 1/6W | CARBON | C |
| | R196 | QRD167J-222 | 2.2K | 1/6W | CARBON | D |
| | R196 | QRD167J-222 | 2.2K | 1/6W | CARBON | E |
| | R196 | QRD167J-222 | 2.2K | 1/6W | CARBON | F |
| | R196 | QRD167J-222 | 2.2K | 1/6W | CARBON | G |
| | R197 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| | R198 | QRD167J-332 | 3.3K | 1/6W | CARBON | A |
| | R198 | QRD167J-332 | 3.3K | 1/6W | CARBON | B |
| | R198 | QRD167J-332 | 3.3K | 1/6W | CARBON | C |
| | R198 | QRD167J-822 | 8.2K | 1/6W | CARBON | D |
| | R198 | QRD167J-822 | 8.2K | 1/6W | CARBON | E |
| | R198 | QRD167J-822 | 8.2K | 1/6W | CARBON | F |
| | R198 | QRD167J-822 | 8.2K | 1/6W | CARBON | G |
| | R199 | QRD167J-472 | 4.7K | 1/6W | CARBON | |
| | R205 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R209 | QRD167J-104 | 100K | 1/6W | CARBON | |
| | R210 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| | R211 | QRD167J-103 | 10K | 1/6W | CARBON | |
| | R212 | QRD167J-473 | 47K | 1/6W | CARBON | |
| | R213 | QRD167J-472 | 4.7K | 1/6W | CARBON | |
| | R214 | QRD167J-102 | 1K | 1/6W | CARBON | |
| | R215 | QRD167J-470 | 47 | 1/6W | CARBON | |
| | R228 | QRD167J-222 | 2.2K | 1/6W | CARBON | |
| △ | R229 | QRZ0077-680S | 68 | 1/4W | UNF. CARBON | A |
| △ | R229 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | B |
| △ | R229 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | C |
| △ | R229 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | D |
| △ | R229 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | E |
| △ | R229 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | F |
| △ | R229 | QRZ0077-680 | 68 | 1/4W | FUSIBLE | G |
| | R232 | QRD167J-153 | 15K | 1/6W | CARBON | |

OTHERS

| △ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|------|--------------|---------------------------|--|--|------|
| | L101 | EQL4004-1R0 | INDUCTOR | | | |
| | L106 | EQL3001-102K | INDUCTOR | | | |
| | L120 | EQL4004-1R0 | INDUCTOR | | | |
| | S151 | QSS6A12-E01 | SLIDE SWITCH | | | B |
| | S200 | ESP0001-023M | TACT SWITCH WAKE-UP/SLEEP | | | |
| | S201 | ESP0001-023M | TACT SWITCH CLOCK ADJ | | | |
| | S202 | ESP0001-023M | TACT SWITCH UP | | | |
| | S210 | ESP0001-023M | TACT SWITCH TIMER 2 | | | |
| | S211 | ESP0001-023M | TACT SWITCH CANCEL | | | |
| | S212 | ESP0001-023M | TACT SWITCH DOWN | | | |
| | S214 | ESP0001-023M | TACT SWITCH AM | | | |
| | S220 | ESP0001-023M | TACT SWITCH TIMER 1 | | | |
| | S221 | ESP0001-023M | TACT SWITCH MEMORY | | | |
| | S222 | ESP0001-023M | TACT SWITCH PRESE DOWN | | | |
| | S224 | ESP0001-023M | TACT SWITCH FM | | | |
| | S230 | ESP0001-023M | TACT SWITCH DAILY | | | |
| | S232 | ESP0001-023M | TACT SWITCH PRESET UP | | | |
| | S234 | ESP0001-023M | TACT SWITCH FM MODE/MUTE | | | |
| | S251 | ESP0001-023M | TACT SWITCH EDIT | | | |
| | S252 | ESP0001-023M | TACT SWITCH MEMORY | | | |
| | S253 | ESP0001-023M | TACT SWITCH INTRO | | | |
| | S254 | ESP0001-023M | TACT SWITCH P.MODE | | | |
| | S255 | ESP0001-023M | TACT SWITCH SIDE A/B | | | |
| | S256 | ESP0001-023M | TACT SWITCH CALL | | | |

△ : SAFETY PARTS

OTHERS

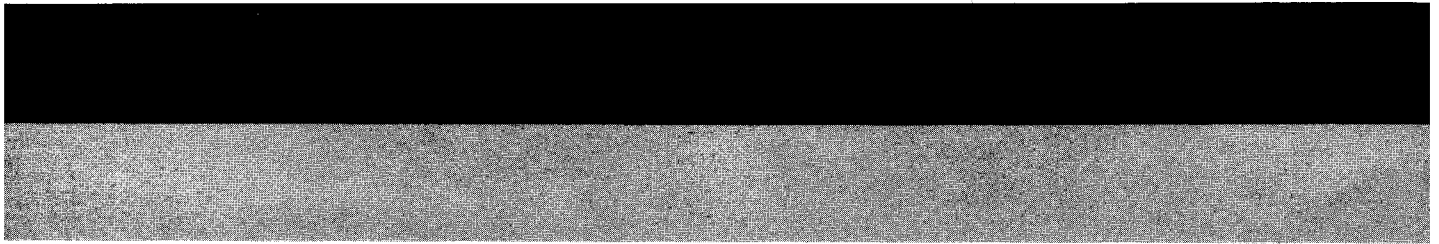
| △ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|-------|---------------|-------------------------|--|--|------|
| | S257 | ESP0001-023M | TACT SWITCH REPEAT | | | |
| | S258 | ESP0001-023M | TACT SWITCH OPEN/CLOSE | | | |
| | S259 | ESP0001-023M | TACT SWITCH +10M | | | |
| | S260 | ESP0001-023M | TACT SWITCH +1M | | | |
| | S261 | ESP0001-023M | TACT SWITCH STOP/CANCEL | | | |
| | S262 | ESP0001-023M | TACT SWITCH PLAY/PAUSE | | | |
| | S263 | ESP0001-023M | TACT SWITCH EJECT | | | |
| | S264 | ESP0001-023M | TACT SWITCH 1 | | | |
| | S265 | ESP0001-023M | TACT SWITCH 3 | | | |
| | S266 | ESP0001-023M | TACT SWITCH 5 | | | |
| | S267 | ESP0001-023M | TACT SWITCH 2 | | | |
| | S268 | ESP0001-023M | TACT SWITCH 4 | | | |
| | S269 | ESP0001-023M | TACT SWITCH 6 | | | |
| | S270 | ESP0001-023M | TACT SWITCH P | | | |
| | T101 | EQR1111-014 | AM RF COIL | | | |
| | T102 | EQR1111-005 | AM RF COIL | | | D |
| | T102 | EQR1111-005 | AM RF COIL | | | E |
| | T102 | EQR1111-005 | AM RF COIL | | | F |
| | T102 | EQR1111-005 | AM RF COIL | | | G |
| | T103 | EQR1207-017 | MW OSC COIL | | | |
| | T104 | EQR1307-010 | LW OSC COIL | | | D |
| | T104 | EQR1307-010 | LW OSC COIL | | | E |
| | T104 | EQR1307-010 | LW OSC COIL | | | F |
| | T104 | EQR1307-010 | LW OSC COIL | | | G |
| | T105 | EQT2140-017 | I.F. TRANSFORMER | | | |
| | T107 | ECB1560-010 | CERAMIC FILTER | | | |
| | AT101 | EMB41YV-401K | ANTENNA TERMINAL | | | A |
| | AT101 | EMB41YV-401K | ANTENNA TERMINAL | | | B |
| | AT101 | EMB41YV-401K | ANTENNA TERMINAL | | | C |
| | AT101 | EMB41YV-301K | ANTENNA TERMINAL | | | D |
| | AT101 | EMB41YV-301K | ANTENNA TERMINAL | | | E |
| | AT101 | EMB41YV-301K | ANTENNA TERMINAL | | | F |
| | AT101 | EMB41YV-301K | ANTENNA TERMINAL | | | G |
| | CF101 | ECB2123-006R | CERAMIC FILTER | | | A |
| | CF101 | ECB2123-006R | CERAMIC FILTER | | | B |
| | CF101 | ECB2123-006R | CERAMIC FILTER | | | C |
| | CF101 | ECB2118-007R | CERAMIC FILTER | | | D |
| | CF101 | ECB2118-007R | CERAMIC FILTER | | | E |
| | CF101 | ECB2118-007R | CERAMIC FILTER | | | F |
| | CF101 | ECB2118-007R | CERAMIC FILTER | | | G |
| | CF102 | ECB2123-006R | CERAMIC FILTER | | | A |
| | CF102 | ECB2123-006R | CERAMIC FILTER | | | B |
| | CF102 | ECB2123-006R | CERAMIC FILTER | | | C |
| | CF102 | ECB2118-007R | CERAMIC FILTER | | | D |
| | CF102 | ECB2118-007R | CERAMIC FILTER | | | E |
| | CF102 | ECB2118-007R | CERAMIC FILTER | | | F |
| | CF102 | ECB2118-007R | CERAMIC FILTER | | | G |
| | EP101 | E70859-001 | EARTH PLATE | | | |
| | EP110 | E70225-001 | EARTH PLATE | | | |
| | FE101 | EAF2203-001 | FRONT END | | | A |
| | FE101 | EAF2203-001 | FRONT END | | | B |
| | FE101 | EAF2203-001 | FRONT END | | | C |
| | FE101 | EAF2203-001 | FRONT END | | | D |
| | FE101 | EAF2203-003 | FRONT END | | | E |
| | FE101 | EAF2203-001 | FRONT END | | | F |
| | FE101 | EAF2203-003 | FRONT END | | | G |
| | FH201 | E307978-001 | FL HOLDER | | | |
| | FL201 | ELU0001-135 | FL TUBE | | | |
| | FS201 | E306805-014 | FELT SPACER | | | |
| | JA221 | EMV7123-033R | CONNECTOR | | | |
| | JA222 | EMV7123-029R | CONNECTOR | | | |
| | JB211 | EMV7141-011 | CONNECTOR | | | |
| | JB221 | EMV7123-033 | CONNECTOR | | | |
| | LP101 | EQF0101-002 | LOW PASS FILTER | | | |
| | LP102 | EQF0102-001 | LOW PASS FILTER | | | E |
| | LP102 | EQF0102-001 | LOW PASS FILTER | | | G |
| | TC105 | ENZ1003-006 | TRIMMER | | | |
| | TC106 | ENZ1003-006 | TRIMMER | | | D |
| | TC106 | ENZ1003-006 | TRIMMER | | | E |
| | TC106 | ENZ1003-006 | TRIMMER | | | F |
| | TC106 | ENZ1003-006 | TRIMMER | | | G |
| | TC201 | ENZ1003-015 | TRIMMER | | | |
| | XT102 | ECX0007-200KC | RESONATOR | | | |
| | XT103 | ECX0000-456KR | RESONATOR | | | |
| | XT201 | ECX4194-304CF | RESONATOR | | | |

△ : SAFETY PARTS

— MEMO —

— MEMO —

XT-MXC5BK



JVC

VICTOR COMPANY OF JAPAN, LIMITED
AUDIO DIVISION, 1644, SHIMOTURUMA, YAMATO-SHI, KANAGAWA-KEN, 242, JAPAN

(No.20390 U)

