

JVC

SERVICE MANUAL

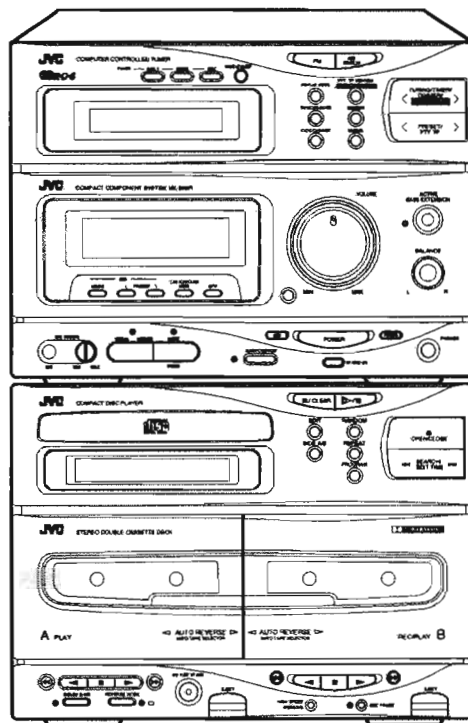
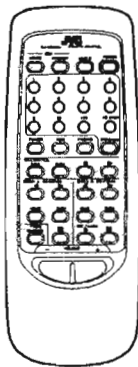
COMPACT COMPONENT SYSTEM

CA-S50RBK

| | |
|---------------------|----------|
| Pick up | OPTIMA-6 |
| CD signal processor | YM7121B |

Area Suffix

| | | |
|----|-------|--------------------|
| BS | | the U.K. |
| E | | Continental Europe |
| G | | Germany |



COMPACT
disc
DIGITAL AUDIO

Contents

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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 authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual 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.
5. Leakage current check (Electrical shock hazard testing)
After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).

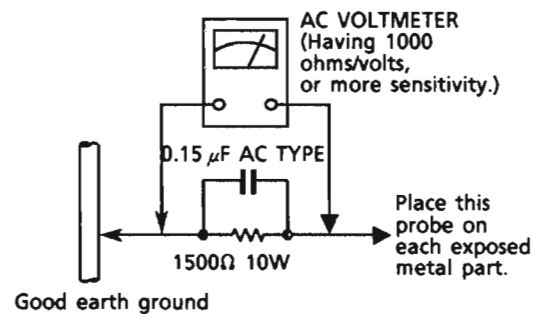
- Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor.

Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. 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

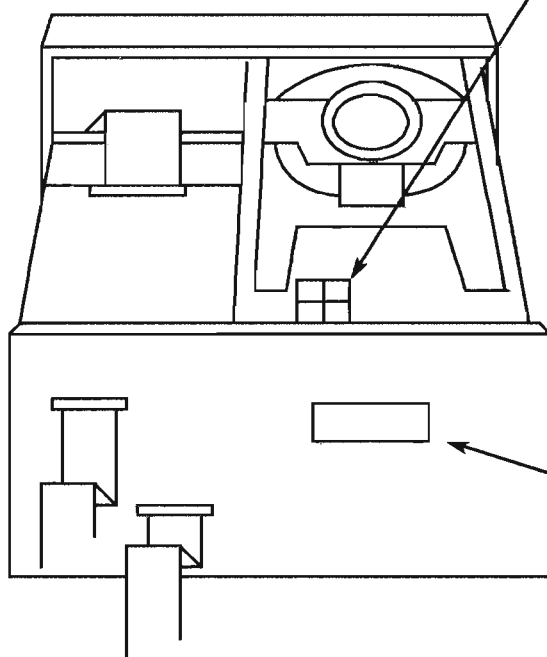
WARNING LABEL

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)



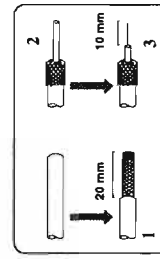
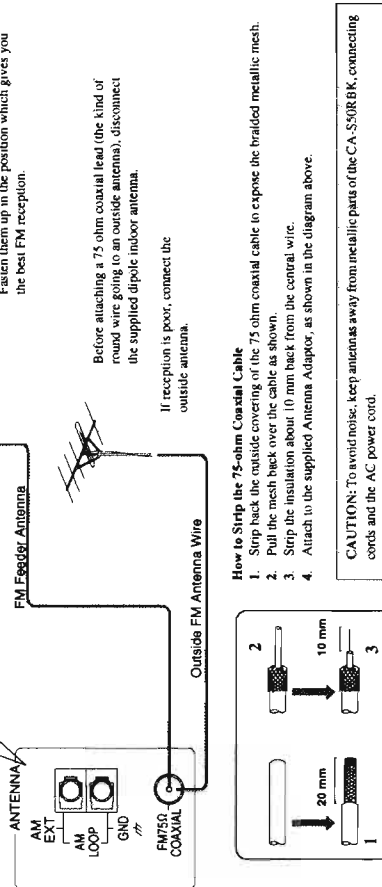
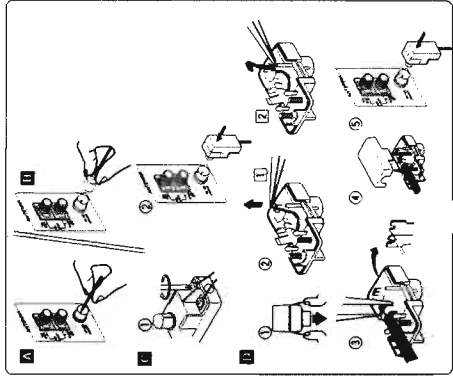
**CLASS 1
LASER PRODUCT**

CLASSIFICATION LABEL

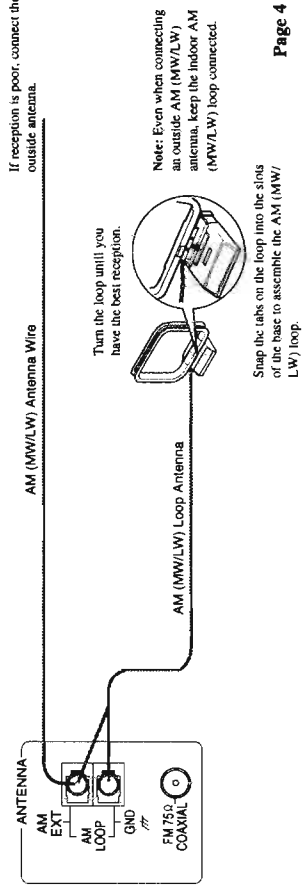
Instruction Book

2. Connect the AM (MW/LW) and FM Antennas

FM Antenna Connections




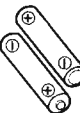




AM (MW/LW) Antenna Connections



Getting Started Right

Unpacking

Of course you have already opened your CA-S50RBK carton, since you are reading this manual. Although the Unit is quite sturdy, you may want to save the packing to re-pack your CA-S50RBK in case you are moving it some distance. Check to be sure you have all of the following things, which are supplied with the CA-S50RBK:

-  AM (MW/LW) Loop Antenna
-  Batteries
-  Remote Control
-  Antenna Adaptor (except for Germany)
-  FM Wire Antenna (only for Germany)
-  FM Feeder Antenna (except for Germany)

If any are missing, contact your dealer immediately.

Location

You can place the CA-S50RBK in many different kinds of locations to suit your needs; just observe the cautions on page 2, keep away from moisture and heat, leave some space between the Unit and its surroundings, more than 1 cm at the sides of the console and 10 cm at the back. (See page G.3.) NEVER place the CD/Cassette Deck Section on the Tuner/Amplifier Section. If you do, the ventilation holes of the Tuner/Amplifier Section will not work.

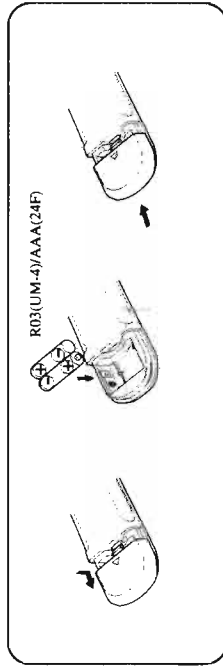
NEVER place the CD/Cassette Deck Section to the left of the Tuner/Amplifier Section, either. If you do, noise may occur when playing back or recording tapes.

Set Up

You will need to do the following 4 things to get your CA-S50RBK ready to use.

1. Put Batteries in the Remote Control

Match the polarity (+ and -) on the batteries with the + and - markings on the battery compartment.



CAUTION: Observe Proper Handling of Batteries.

- To avoid battery leakage or explosion:
- Remove batteries when the Remote will not be used for a long time.
- When you need to replace the batteries, replace both batteries at the same time with new ones.
- Don't use an old battery together with a new one.
- Don't use different types of batteries together.

Please look at the diagrams on pages 4 and 5 to do some more things.

Common Operations

Here are the things that apply to all the functions of your CA-S50RBK. If something in a later procedure is unclear to you, check back here.

COMPUPLAY

COMPUPLAY is JVC's feature that lets you control the most used functions of the CA-S50RBK with a single touch. This One Touch Operation starts playing a CD, turns on the radio or plays a tape with a single press of the play button for that function. What One Touch Operation does for you is to turn the power on, then start the function you have called for. If the Unit is not ready, such as no CD or tape in place, the Unit still comes on and then pauses so you can put in a CD or tape.

How One Touch Operation works in each case is explained in the section about that function.

Turning the CA-S50RBK On

Press POWER; the STANDBY indicator goes out.

- The CA-S50RBK comes on ready to do whatever it was doing when the power was last shut off. So if the last thing you were doing was listening to a tape in deck B, you now are ready to listen to a tape again in deck B, or you can change to another source.
- If you were listening to the radio last, the radio comes on playing that last station.

Turning the CA-S50RBK Off

Press POWER again; the STANDBY indicator lights up and the display blanks, except for the clock display.

- The small amount of the power (17 watts) is always consumed even in the stand-by mode.
- To switch off the Unit completely, unplug the AC power cord from the AC outlet. When you unplug the AC power cord, the preset stations of the Tuner will be erased in a couple of days.

Controlling the Sound

The same set of buttons and knobs control the sound, no matter which function is producing it.

Volume Control

Rotate clockwise to increase loudness, counter-clockwise to reduce loudness.

CAUTION: Always set the VOLUME control to MIN before turning on a connected source such as a VCR or Record Player, or starting any other of the sound sources such as the radio, tape, or CD player. Otherwise, if the VOLUME control is turned up, the sudden blast of sound energy can permanently damage your hearing and/or ruin your speakers.

Speaker Balance Control

If the sounds you hear from the right and left speakers are not well-balanced, you can adjust the speaker output balance with the BALANCE control.

Special Effects Control

The CA-S50RBK has some preset sound effects that give you control of the way your music sounds, so you can tailor it for your room and for the quality of the source.

Preset SEA (Sound Effect Amplifier) effects

You can select a sound effect by pressing SEA MODE to cycle through the following effects until the effect you want is pointed with the cursor (▶) on the display:

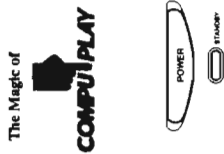
- POPS** Adds a pleasing quality to pop music.
- JAZZ** Gives a feeling of a live atmosphere. Good for acoustic music.
- ROCK** Boosted low and high frequencies.
- CLASSIC** Set for wide and dynamic sound stereo systems.
- MOVIE** Adds breadth to sounds so you feel like you're in a movie theater.

Moreover, each preset sound effect has 10 different SEA patterns. After selecting your desired sound effect mode, press PRESET > or < (or PRESET on the Remote).

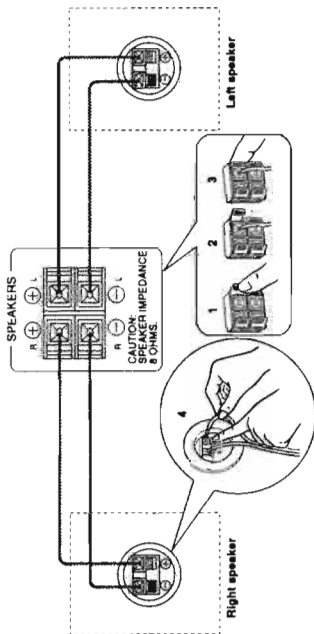
For example, when you have selected POPS, pressing PRESET > gives you the following settings:

▶ POPS1 → POPS2 → POPS3 → ... → POPS10

When you select FLAT with SEA MODE or when you press OFF, the sound effect will be cancelled.



3. Connect the Speakers



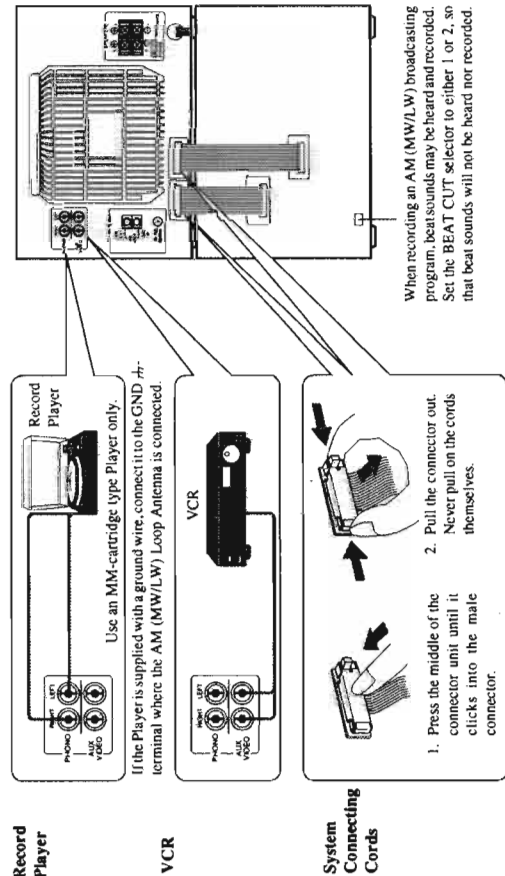
For each speaker connect one end of the speaker signal cable to the speaker terminals on the back of the CA-S50RBK and one end to the speaker.

1. Open each terminal.
2. Insert the end of the speaker signal cable as shown (be sure to remove the insulation at the end of each wire first).
3. Close the terminals to clamp the speaker signal cable firmly in place.
4. Connect the red (+) and black (-) terminals of the right side speaker to the red (+) and black (-) terminals marked R on the CA-S50RBK. Connect the red (+) and black (-) terminals of the left side speaker to the red (+) and black (-) terminals marked L on the CA-S50RBK.

IMPORTANT: Check your speakers for correct impedance: Speakers 8 ohms only.

CAUTION: If the TV is installed near speakers, irregular colors may result. In this case, set the TV away from the speakers.

4. Connect the System Connecting Cords and Auxiliary Equipment



Record Player

VCR

System Connecting Cords

Use an MM-cartridge type Player only.
If the Player is supplied with a ground wire, connect it to the GND terminal where the AM (MW/LW) Loop Antenna is connected.

When recording an AM (MW/LW) broadcasting program, beat sounds may be heard and recorded. Set the BEAT CUT selector to either 1 or 2, so that beat sounds will not be heard nor recorded.

1. Press the middle of the connector unit until it clicks into the male connector.
2. Pull the connector out. Never pull on the cords themselves.

CAUTION: First make all connections before plugging the Unit into any AC power outlet.

Now you can plug the AC power cord into the wall outlet, and your CA-S50RBK is at your command!

Listening to the Radio

The controls for the radio are located in the Tuner section, just above the large volume control. With these controls you can browse through all the stations or use the preset function to go immediately to a particular station.

- To record from the radio, see "Recording any Sound Source to Tape," page 16.

First we'll explain how to tune in stations, and then how to preset the ones you listen to often.

One Touch Radio

Just press AM (MW/LW) to turn on the Unit and start playing the most recent AM (MW/LW) station tuned in, or press FM to start the most recent FM station playing. If you press TUNER on the Remote instead, you can start playing the most recent station tuned in.

- You can switch from any other sound source in the radio by pressing either AM (MW/LW) or FM.

Tuning in a Station

Press AM (MW/LW) or FM to turn on the radio.

You have three ways to select a station:

1. Press and release TUNING/TIMER/DIMMER/CHARACTER < or > to move from station to station until you find the one you want.
- OR
2. Hold down TUNING/TIMER/DIMMER/CHARACTER < or >, the frequency starts changing on the display. When a station is tuned in, the TUNED indicator lights up on the display and the frequency stops changing.
- OR
3. Press once and release PRESET/PTY, TP < or > to go to the next preset station, or hold PRESET/PTY, TP < or > to cycle through the preset stations; release the button when the preset station you want shows on the display. (This method is possible after presetting stations by yourself.)

You can also use the Remote to tune in stations and preset channels:

- To tune preselected stations with the Remote:
 1. Press TUNER so that you can receive the most recent station tuned in.
 2. Select the station by entering the preset channel number in the 10 key pad of the Remote. The display shows the new channel number and frequency.

Presetting Stations

Once a station is assigned to a channel number, the station can be quickly tuned either from the Remote using the 10 key pad or the CA-S50RBK itself using PRESET/PTY, TP < or > to call up the channel number.

- You can preset a total of 40 stations, either AM (MW/LW) or FM.
- Preset stations may be erased when power is cut off to the Unit, as when it is unplugged from the AC outlet or a power failure occurs. If the preset stations are lost, simply set the stations again using the following procedure.

To preset radio stations:

1. Tune in the station you want to set.
2. Press MEMORY.
 - On the display, MEMORY lights up and "—" will blink for 4 seconds. During these 4 seconds while "—" is blinking you can assign a channel number to the station and enter it into the memory.
3. Select a channel number by pressing PRESET/PTY, TP < or > until you find the channel number you want.
4. Press MEMORY and the station will be assigned to the channel number showing on the display.

To cancel the preset stations:

1. Press CANCEL.
 - On the display, CANCEL and "—" will blink for 4 seconds. During these 4 seconds while CANCEL and "—" are blinking you can cancel preset stations.
2. Select a channel number by pressing PRESET/PTY, TP < or > until you find the channel number of the station you want to cancel.
3. Press CANCEL and the station will be erased.



Radio

Three ways to tune in a station



How to preset AM (MW/LW) and FM radio stations



LIVE SURROUND effects

You can select a Live Surround effect by pressing LIVE SURROUND MODE (or LIVE S on the Remote) to cycle through the following effects until the effect you want is pointed with the cursor (➡) on the display:

- STADIUM** Adds clarity and spreads the sound, like the sound in an outdoor stadium.
- D.CLUB** Increases resonance and bass.
- HALL** Adds depth and brilliance to the sound, like in a concert hall.

When you press OFF, the Live Surround mode will be cancelled, and at the same time the SEA effect will be cancelled.

Sound Effect Demo Mode

Since there are so many preset sound effects, you may be sometimes unable to decide which sound effect to select. In this case, you can use a very useful function — Sound Effect Demo Mode.

- While playing a CD, a tape, etc., keep pressing DEMO (the same button as MSEC) for a few seconds. The Unit starts demonstrating 10 preset patterns of each SEA effect (POPS, JAZZ, ROCK, CLASSIC, and MOVIE) for a few seconds. When you find the desired sound effect, press DEMO again to cancel the demo mode, and select the sound effect.

Things to remember about using special effects:

- Experiment with and set your special effects before you start recording with Auto Edit or Programmed Edit, because once recording starts, the special effects cannot be changed without stopping recording, and often having to start over. If you need different sound effects for each selection, use the standard recording features described on page 15, rather than Auto Edit or Programmed Edit.
- Each of the special effects changes the sound in a different way by changing which parts of the sound are increased or reduced. To see how each part of the sound will be changed, watch the display just as you press an effect button when music is playing. You will see a graphical display showing the effect's pattern for just a short time before the effect starts.

Active Bass Extension

This feature is designed and incorporated to reinforce the bass sound, depending on the volume level to maintain the richness and fullness of the bass.

Press ACTIVEBASS EXTENSION to use this effect so that the LED lights up. To cancel it, press the button again.

Using the Vocal Masking Function

Pressing VOCAL MASKING cancels the voice part of a song so you can broadcast your own voice through a microphone in place of the lead singer. Now if sounds as if you are singing directly with the band. To cancel it, press the button again. See page 22 for a more complete discussion of this function.

Memorizing the Sound Effect for Each Sound Source

- Press MSEC so that the indicator lights.
 - The learning function of the CA-S50RBK memorizes one sound effect for each sound source, so once you set your desired sound effect for each sound source, you don't have to repeat the many setting procedures each time you play the sound source.
- While the indicator is lit, each time you change the sound source, the preset sound effect for that sound source will be recalled.

To cancel the MSEC function, press MSEC again so that the indicator goes off.

Listening with Headphones

A standard pair of headphones can be connected at the PHONES jack on the front panel. No sound can be heard from the speakers. Be sure to turn down the volume before connecting or putting on headphones, as high volume can damage both the headphones and your hearing.

The Display and the LEDs — Two Very Useful Hints

- The Display Panel tells you many useful things about what your Unit is doing. Watch it as you give instructions to the CA-S50RBK by pressing buttons.
- A few of the control have a small light, called an LED, next to or even right on the function button or knob itself. The light comes on when the function is on, and goes out when it is not in use.

Adjusting the Brightness of the Display

In the stand-by mode (while the Unit is off), you can adjust the brightness of the clock display. Pressing TUNING/TIMER/DIMMER/CHARACTER > makes the display brighter. Pressing TUNING/TIMER/DIMMER/CHARACTER < makes the display dimmer.

STADIUM D.CLUB HALL

SOUND EFFECT DEMONSTRATION

ACTIVE BASS EXTENSION

VOCAL MASKING

MSEC (Multi Source-Related Effect Control)



The Display and The LEDs

Receiving in Stereo or Monaural

When an FM stereo broadcast is hard to receive or noisy:

- Press FM MODE/MUTE and reception will improve; although you will lose the stereo effect. In this state, you will hear some noise while tuning into a station.
- To restore stereo effect, press FM MODE/MUTE again so that AUTO appears on the display. In this state, when a program is broadcast in stereo, you will hear stereo sound; when in monaural, you will hear monaural sound. Furthermore, in this state, you won't hear noise while tuning into stations.

Receiving FM Stations with RDS (Radio Data System)

RDS is a broadcasting service which a growing number of FM stations are now providing. It allows these FM stations to send additional signals along with their regular program signals. For example, the stations send their station names, and information about what type of program they broadcast, such as sports or music, etc. When tuned to an FM station which provides the RDS service, the RDS indicator lights up, the station frequency (and then the station name if sent) is displayed.

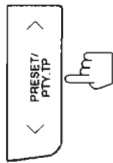
The TP (Traffic Program) indicator lights up on the display when the received broadcast carries traffic announcements, and the TA (Traffic Announcement) indicator lights up while a traffic announcement is being received.

What Information Can RDS Provide

With the CA-S50RBK, you can watch three types of RDS service as well as two other indications on the display. To show them on the display, press DISPLAY MODE. Each time you press the button, the display changes to show the following information:

| | |
|-----------------------|---|
| PS (Program Service): | While searching, "PS" appears and then station names commonly known will be displayed. "NO PS" appears if no signal is sent. |
| PTY (Program Type): | While searching, "PTY" appears and then types of broadcast programs. "NO PTY" appears if no signal is sent. |
| RT (Radio Text): | While searching, "RT" appears and then text messages the station sends. "NO RT" appears if no signal is sent. |
| Character Mode: | 8 characters you have set yourself. (See page 10.) "NO CHARA" appears if you have not used this function or if you have tuned to preset number over 10. |
| Station Frequency: | Station frequencies. |

These are the three RDS services



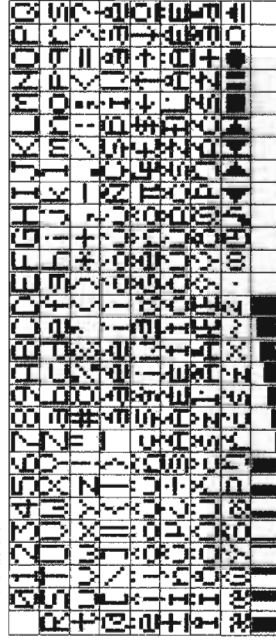
Giving names to stations: Character Mode

Character Mode
You can give names (8 characters) to any station (FM and AM (MW/LW)) regardless of the RDS service availability, and show them on the display by pressing DISPLAY MODE repeatedly. To do this, you need to preset the stations you want to name into the first ten preset numbers.

To give a name, follow this procedure:

1. Press PRESET/PTY/TP < or > and select a preset number from 1 to 10 on the display.
2. Press PTY/TP SEARCH/CHARACTER SET within 4 seconds.
3. Press TUNING/TIMER/DIMMER/CHARACTER < or > within 10 seconds to select the first character.
 - Each time you press the button, the character changes. The available characters are listed below.
4. Press PTY/TP SEARCH/CHARACTER SET to move the character insertion position on the display.
5. Repeat steps 3 and 4.
6. Press MEMORY within 10 seconds.
 - The Unit memorizes the name you have given. Once you have given the name to a preset channel, this name appears first whenever you tune to this preset channel. (If RDS sends the PS signal, it will appear after the name you have given.)
 - It is not necessary to input all the 8 characters. When you finish, press MEMORY.

Available characters



FM MODE/MUTE



RDS (Radio Data System)



PTY (Program Type) codes

Descriptions of the PTY codes and TP
With the CA-S50RBK, you can receive the following PTY and TP signals

- NEWS: News
- AFFAIRS: Topical program expanding on the current news or affairs
- INFO: Programs on medical service, weather forecast, etc.
- SPORT: Sports events
- EDUCATE: Educational programs
- DRAMA: Radio plays
- CULTURE: Programs on national or regional culture
- SCIENCE: Programs on natural sciences and technology
- VARIED: Other programs like comedies or ceremonies
- POP M: Pop music
- ROCK M: Rock music
- M.O.R. M: Middle-of-the-road music (usually called "easy listening")
- LIGHT M: Light music
- CLASSICS: Classics
- OTHER M: Other music
- ALARM: Emergency broadcasts
- NONE: Undefined
- TP: Broadcasts which carry traffic announcements

Listening to a Compact Disc

Here are the basic things you need to know to play a CD and locate the different selections on it. Each selection is called a track, so when we are talking about locating a track, we are also talking about how you find a certain song or performance.

Basics of Using the CD Player

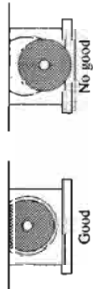
The quickest way to start a CD is with One Touch Operation:

- Press Play/Pause \triangleright/\parallel on the CD player or Play \blacktriangleright in CD CONTROL on the Remote.
- If a CD is already loaded, the Unit automatically turns on and starts to play it from track 1.
- If no CD is loaded, the CD tray opens, and you can put in a CD, printed side up, press Play/Pause \triangleright/\parallel and the tray closes and the CD starts playing.
- If you press \blacktriangle OPEN/CLOSE, the Unit automatically turns on and the CD tray comes out.

To Load, Play, and Stop a CD

1. Press \blacktriangle OPEN/CLOSE.
2. Put a CD, printed side up, into the tray.
 - When using an 8 cm CD, place it on the inner circle of the tray.

CAUTION: Place the disc correctly on the circle of the tray.



3. If you want to listen to the CD now, press Play/Pause \triangleright/\parallel and adjust the volume.
 - The CD tray closes automatically.
 - The display shows the track being played and the length of time since it started.
4. To stop the CD, press \blacksquare CLEAR. When you start again, the CD begins with track 1.
5. To pause the play, press Play/Pause \triangleright/\parallel while the CD is playing so when you press Play/Pause \triangleright/\parallel again the CD starts just where you left off.
6. To remove a CD, press \blacktriangle OPEN/CLOSE, take the CD out, and press \blacktriangle OPEN/CLOSE again to close the tray. Keep the tray closed except during loading and unloading to protect the mechanism from dust and damage.

How to Find the Track or a Particular Point You Want

- Each time you press briefly and release SEARCH/EDIT TIME \leftarrow/\leftarrow or \rightarrow/\rightarrow the track changes by one.
 - Press and release SEARCH/EDIT TIME \rightarrow/\rightarrow to go ahead one track at a time.
 - Press and release SEARCH/EDIT TIME \leftarrow/\leftarrow to go back one track at a time.
- Holding down SEARCH/EDIT TIME \leftarrow/\leftarrow or \rightarrow/\rightarrow will fast forward or fast reverse the CD so you can quickly find the particular part of a track you want to listen to.
- Holding down \leftarrow/\leftarrow or \rightarrow/\rightarrow on the CD CONTROL-section of the Remote allows you to change tracks continuously.

Locating a Track with the Remote Directly

Using the 10 key pad on the Remote allows you to go directly to the beginning of any track.

1. Press CD 10KEY.
2. Enter the number of the track you want using the 10 key pad.
 - Example: for track 5, press 5. For track 15, press +10 then 5. For track 20, press +10, then 10.
3. As long as a CD is loaded and the Unit is on, as soon as you enter the number of the track you want, it will start to play.

Programming the Playing Order of the Tracks

In addition to the high quality sound which makes the CD such a good way to listen to music, you can change the order in which the tracks play.

Random Play

- Press RANDOM on the CD player:
- The tracks will play in no special order.
 - When all of the tracks have been played, the CD stops.
 - Press REPEAT before or during random play to instruct the CA-S50RBK to continue with a different random track selection after the last selection is played.
 - To cancel random play, press \blacksquare CLEAR.



Program with the Remote

To program the CD track order from the Remote, follow this procedure:

1. Press PROGRAM.
2. Press CD 10KEY.
3. Press the number of the first track you want to hear, then the number of the second track, and so on until you have entered all the track numbers you want to play.
 - Refer to the section "How to Use the Remote Control" on page 23 if you have questions about how to enter numbers above 10.
4. Your program can include up to 32 tracks, and you can repeat tracks if you wish.
 - Press Play/Pause \triangleright/\parallel to start the program—the first track you programmed will start to play, followed by the next one you entered, until all the selected tracks are played.
5. To stop the CD during Programmed Play, press Stop \blacksquare . To cancel the program, press PROGRAM.

How to program: just 5 easy steps

Programming from the front panel

To program the CD from the main Unit, follow this procedure

1. Press PROGRAM.
2. Press SEARCH/EDIT TIME \leftarrow/\leftarrow or \rightarrow/\rightarrow to locate the track you want to start with.
3. Press PROGRAM to store the selected track.
4. Repeat steps 2 and 3 until you have entered all the tracks you want to program.
5. Press Play/Pause \triangleright/\parallel and the Unit will begin playing the tracks in the order you programmed them.
6. To stop the CD during Programmed Play, press \blacksquare CLEAR. To cancel the program, press \blacksquare CLEAR again.

Programming Hints

A few hints to make programming easier

- If you want to change the entire program, press \blacksquare CLEAR on the main Unit or PROGRAM on the Remote, and then you can start over.
- To view the order of the tracks in your program when it's playing, press Stop \blacksquare on the Remote, then press \leftarrow/\leftarrow or \rightarrow/\rightarrow on the Remote to display the order of the tracks. Each time you press \rightarrow/\rightarrow the next selection in your program is displayed. (Press \leftarrow/\leftarrow for the previous selections.)
- To add a track to your program, just press CD 10KEY and the number you want to add using the Remote.

Repeat a selection or the whole CD

Repeating a Selection or the Entire Disc

- You can have either the program or the individual selection currently playing repeat as many times as you like by pressing REPEAT. Each time you press REPEAT, it cycles from OFF, which turns the REPEAT indication out on the display, to REPEAT which will repeat all tracks in order or according to the program you have set, and REPEAT 1 which will repeat the currently playing track. To cancel Repeat, just press REPEAT until the REPEAT or REPEAT 1 indication on the display goes off.

Programmed Play

You can arrange the tracks to play in any order you like with the Program function. The Remote is very useful for this because you can select tracks by number with the key pad. See "How to Use the Remote Control," page 23, if you need more information about its use. You can also use the main Unit.

To program the CD track order from the Remote, follow this procedure:

1. Press PROGRAM.
2. Press CD 10KEY.
3. Press the number of the first track you want to hear, then the number of the second track, and so on until you have entered all the track numbers you want to play.
 - Refer to the section "How to Use the Remote Control" on page 23 if you have questions about how to enter numbers above 10.
4. Your program can include up to 32 tracks, and you can repeat tracks if you wish.
 - Press Play/Pause \triangleright/\parallel to start the program—the first track you programmed will start to play, followed by the next one you entered, until all the selected tracks are played.
5. To stop the CD during Programmed Play, press Stop \blacksquare . To cancel the program, press PROGRAM.

To program the CD from the main Unit, follow this procedure

1. Press PROGRAM.
2. Press SEARCH/EDIT TIME \leftarrow/\leftarrow or \rightarrow/\rightarrow to locate the track you want to start with.
3. Press PROGRAM to store the selected track.
4. Repeat steps 2 and 3 until you have entered all the tracks you want to program.
5. Press Play/Pause \triangleright/\parallel and the Unit will begin playing the tracks in the order you programmed them.
6. To stop the CD during Programmed Play, press \blacksquare CLEAR. To cancel the program, press \blacksquare CLEAR again.

A few hints to make programming easier

- If you want to change the entire program, press \blacksquare CLEAR on the main Unit or PROGRAM on the Remote, and then you can start over.
- To view the order of the tracks in your program when it's playing, press Stop \blacksquare on the Remote, then press \leftarrow/\leftarrow or \rightarrow/\rightarrow on the Remote to display the order of the tracks. Each time you press \rightarrow/\rightarrow the next selection in your program is displayed. (Press \leftarrow/\leftarrow for the previous selections.)
- To add a track to your program, just press CD 10KEY and the number you want to add using the Remote.

Repeating a Selection or the Entire Disc

- You can have either the program or the individual selection currently playing repeat as many times as you like by pressing REPEAT. Each time you press REPEAT, it cycles from OFF, which turns the REPEAT indication out on the display, to REPEAT which will repeat all tracks in order or according to the program you have set, and REPEAT 1 which will repeat the currently playing track. To cancel Repeat, just press REPEAT until the REPEAT or REPEAT 1 indication on the display goes off.



How to use the CD player: from the most basic to advanced



CD Find track

Using the Remote to find a track

With programming, you can play back tracks in any order

Listening to a Tape

The tape deck allows you to play, record and dub audio tapes.

- To record or dub, see Recording page 15.
- With Automatic Tape Type Detection, you can listen to type I, II, or IV tapes without changing any settings.

Listen to a tape:
How to use your tape deck



Playback Procedure



One Touch Play

By pressing either Play Forward (▶) / Play Reverse (◀) (or Play Forward ▶ / Play Reverse ◀) for deck A and B control (on the Remote) the power will come on, and if a tape is in the deck, it will start to play. If no tape is loaded, the Unit will come on and wait for further instructions.

Regular Play

When power is already on, you can use this basic procedure:

1. Press EJECT, which is located just to the right of the deck, for the deck you want to use.
2. When the cassette carrier opens, put the cassette in, with the exposed part of the tape down toward the base of the CA-S50RBK.
3. If the cassette carrier does not open, turn the Unit off, then back on again and press EJECT.
3. Close the carrier gently.
4. Turn the volume down.
5. Press Play Forward (▶) to play the front side, or Play Reverse (◀) to play the reverse side.
6. To stop playing, press Stop (■). To remove the tape, press EJECT.

Fast Left and Fast Right

- While the tape is stopped, press Fast Left (◀◀) and the tape will wind rapidly onto the left side of the cassette without playing.
- While the tape is stopped, press Fast Right (▶▶) and the tape will wind rapidly onto the right side of the cassette without playing.

Finding the place you want:
Music Scan



Deck A



Deck B

- When the power is on, the glowing LED shows the direction the tape was last moving. When the LED is blinking slowly, the tape is playing in the direction of the arrow. Now comes the tricky part: when the LED is blinking rapidly, the tape can be moving either the direction the arrow points, or the opposite direction, depending on whether you pushed Fast Right (▶▶) or Fast Left (◀◀). The tape will be going at high speed in the direction of the arrows of the button you pushed. The direction of the arrow with the rapidly blinking LED shows which way the tape will start playing when the fast search is done. Put in a tape and try it out.
- The Scan function works by detecting a 4 second blank at the beginning of each selection, so it won't work well if your tape has:
 - No blank at the beginning of a track.
 - Noise (often caused by much use or poor quality dubbing) which fills the blank with.
 - Long very soft passages or pauses in a selection. The scan will detect these instead of the 4-second blanks. If this happens, just go ahead and scan again until you reach the selection you want.
- Music scan only works on one tape at a time.
- If you use Music Scan on deck A while recording on deck B, recording will stop.

Scan Forward.....

Scan Forward

With the tape playing, to find the beginning of the next selection, press Fast Right (▶▶) or Fast Left (◀◀) whichever one points in the same direction as the arrow with the slowly blinking LED.

- The tape will fast forward to the next selection and begin playing it.

Scan Back

With the tape playing, to find the beginning of the selection now playing, press the Fast Right (▶▶) or Fast Left (◀◀) button pointing the opposite direction to the arrow with the slowly blinking LED.

- The tape will fast reverse to the beginning of the piece and start playing it again.

.....Scan Back

More Useful Things to Know:

- Reverse Mode
- Continuous Play
- Dolby NR

Useful hints and features to know when using your tape deck

- Use Reverse Mode to make the tape automatically reverse at the end of a side and start playing the other side. Press REVERSE MODE to change from Reverse Mode on (the LED is lit) to Reverse Mode off, or from off, to on.
- Continuous Play: When a tape finishes playing with the Reverse Mode LED on, the Unit always checks to see if a tape is in the other deck. If one is there, it automatically starts playing it. This Continuous Play happens regardless of which deck starts first.
- Press DOLBY B NR to switch the Dolby Noise Reduction on (the LED lights up) or off (the LED goes off). If a tape is recorded with Dolby B NR, playing it back with Dolby NR on will reduce tape noise and improve the clarity of the sound.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Listening to a VCR or Record Player through your CA-S50RBK

By playing the sound from a VCR or Record Player through the CA-S50RBK, you can often dramatically improve the quality, and gain control over how the music or program sounds. Once the connected equipment is playing through the CA-S50RBK, you can apply the sound effects, make recordings, or listen with the headphones. Here are the steps to take:

Advantages in Connecting a VCR or Record Player



1. Make a connection between the VCR or Record Player as shown on page 5.
2. Press PHONO or AUX either on the Unit or Remote.
3. The Unit is turned on and PHONO or AUX lights up on the display.
3. Switch on the connected equipment and start it playing.
4. Set the Unit's volume to its lowest setting. Use FADE MUTING on the Remote, or turn the VOLUME control all the way counterclockwise.
5. To cancel the PHONO/AUX setting, change the source by starting any one of the CA-S50RBK's built-in sound sources, such as the radio or CD player.

Recording

Recording onto cassette tape from any of the sound sources is easy and the CA-S50RBK does most of the work. Just have a tape in deck B, have the source ready, make one or two settings, and you're ready to record.
For each source the procedure is a little different and now we'll explain just what to do for each one. If you forget, just come back to the section which has the specific procedures you need. But first, here are a few things to make your recordings better.

- What can you record?**
- Tapes
 - Radio
 - CDs
 - Microphone
 - Connected Source

Things to Know before You Start Recording

- **It may be unlawful to record or playback copyrighted material without the consent of the copyright owner.**
- Press DOLBY B NR (noise reduction) to reduce tape hiss.
- The recording level, which is the volume at which the new tape is being made, is automatically set correctly, so it is not affected by the VOLUME control on the CA-S50RBK. Thus, you can adjust the sound you are actually listening to without changing the recording. If you don't want to listen to the sound, you can turn the VOLUME control all the way down, or press FADE MUTING on the Remote.
- Cassettes have a special feature so you won't accidentally record over a tape you want to save. Two small tabs on the back, one for side A and one for side B, can be removed to prevent erasure or re-recording. To record on a cassette with the tabs removed, you must cover the holes with tape first. However, when a Type II tape is used, only cover part of the hole as shown below, since the other part of the hole is used to detect the tape type.



Select Sound Effects

- When recording, you can use the sound effects in condition the music as it is recorded. But when recording using Auto Edit or Programmed Edit, once recording has started, these settings cannot be changed. When recording from tape deck A to deck B, the sound effects cannot be used, because the signal doesn't go through the amplifier first. This method gives you the highest quality dubbed tapes.
- Type I and type II tapes can be used for recording. While type IV tapes can be played, type IV tapes cannot be used for recording on the CA-S50RBK.

⚠ If recordings you make have excessive noise or static, the Unit may be too close to a TV which was on during the recording. Either turn off the TV or increase the distance between the TV and the CA-S50RBK.

Standard Recording: Any Source to Tape

This is the basic method for recording any source. The CA-S50RBK also has special ways for recording CD to tape, and tape to tape, which save you time and effort, as well as give you some special effects. However, when you need to add a selection to a tape you have made, or are combining selections from several sources on one tape, use the method we describe here; just substitute the source you want, such as a tape in deck A, or CD, or radio in this procedure. You can also record from the microphone or an auxiliary source with this procedure.

Source to Tape: Step by Step

Recording any Sound Source to Tape

Follow these steps to record from any sound source onto a tape in deck B.

1. Press POWER so the LED on the VOLUME control glows.
 - When you want to record on both sides of the tape, press REVERSE MODE to on and be sure to start recording from the front side (A). If you start recording from the reverse side (B), the deck stops after recording the reverse side (B) without going to the front side (A), even if the Reverse Mode is on.
2. Load the tape you are making into deck B.
3. Press REC PAUSE. The LED lights up.
4. Prepare the source, for example, tuning in a radio station, loading a CD, turning on a connected Record Player or VCR, etc.
 - If the source is already playing, just press REC PAUSE, then press either Play Forward ▷ to record on the front side (A), or Play Reverse ◁ to record on the reverse side (B).
 - When you want to start recording, press either Play Forward ▷ to record on the front side (A), or Play Reverse ◁ to record on the reverse side (B).
 - To pause recording any time during the process, press REC PAUSE again, then press Play Forward ▷ or Play Reverse ◁ to start recording again.
 - To stop recording any time during the process, press Stop ■ on deck B

CD to Tape, Introduction

CD to Tape Recording

There are four ways to record from CD to tape:

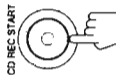
- The standard method described above.
- CD Direct—Everything on the CD goes onto the tape in the order it is on the CD or according to an order you have set in a program.
- Auto Edit—Your CA-S50RBK figures out which selections to put on which side of the tape, so a selection isn't cut off before it's finished when the tape runs out.
- Programmed Edit—You can decide the selections to be recorded in your desired order.

CD Direct Recording, Step by Step

CD Direct Recording

This is the easiest way of recording a CD. Everything on the CD goes onto the tape in the order it is on the CD or according to an order you have set in a program. To make a program, see page 12.

1. Put the cassette in deck B.
 - Press REVERSE MODE if you want to record on both sides of the cassette.
2. Load the CD into the CD Player.
 - If the CD is already loaded, be sure the power is on.
3. Set the sound effects you want now, since the sound environment cannot be changed once recording starts.
4. Now press CD REC START on the tape deck. The FADE indicator lights up on the display.
 - Deck B begins to record, and soon the CD begins to play. At the end of the tape, the CA-S50RBK automatically goes back to the beginning of the last selection and re-records it, this time gently fading out at the end. If you select the Reverse Mode, the reverse side (B) starts with the last selection on the front side (A) and will be faded out at the end again. (A 10-second blank is created on the beginning of the reverse side (B).)
 - To stop recording any time during the process, press either Stop ■ on deck B or CLEAR (when you press OPEN/CLOSE you can make a 4 second blank at the end of the recording). Pressing OPEN/CLOSE will also stop recording.



⚠ SEARCH/EDIT TIME ◀▶ or REPEAT and RANDOM will work during CD Direct Recording.

Auto Edit, CD to Tape, Introduction

Recording a CD onto a Tape Using Auto Edit

Using Auto Edit, you can arrange the CD tracks to fit the tape, so a selection isn't cut off when the tape runs out first. Auto Edit is one of the best ways to copy all of a CD onto a tape.

The selection of which tracks go on which side is based on the lengths of the tracks and the length of the tape. The CA-S50RBK can figure out most of what it needs to know, but you will have to tell it the tape size you are using if your tape is a different size than the one picked by the program. Follow this procedure to record a CD using Auto Edit.

Auto Edit, CD to Tape, Step by Step

1. Put the cassette in deck B.
 - Press REVERSE MODE if you want to record on both sides of the cassette.
2. Load the CD into the CD Player.
 - If the CD is already loaded, be sure the power is on and the source is CD. If the last selected source is tuner, the Unit will not recognize the loaded CD when turning on the Unit by pressing POWER.
3. Set the sound effects you want now, since the sound environment cannot be changed once recording starts.
4. Press CLEAR.
 - This cancels the previous edit or program setting.



- Now press **CD REC START** on the tape deck. The **FADE** indicator lights up on the display. The tape automatically rewinds to the beginning of the front side (A), a 10 second blank is created, and the CD begins to play and be recorded. (A 10 second blank is also created on the beginning of the reverse side (B).)
- If the playing time of the program for one side is longer than the length of one tape side, the last recorded selection will be fading out at the end of the tape side.
- To stop recording any time during the process, press either **Stop** on deck B or **■/CLEAR** (when you press **■/CLEAR** you can make a 4 second blank at the end of the recording). But remember: after you stop, if you restart, the tape will rewind and start recording the CD from the beginning. Pressing **▲ OPEN/CLOSE** will also stop recording.

Using **Auto Edit and Program Edit**, you can program up to 16 tracks for each side of the tape, and cannot program a track the number of which on the disc is greater than 31.

Tape to Tape Recording (Dubbing)

Recording from one tape to another is called dubbing. You can dub at regular speed for highest quality, or at high speed with a slight loss in sound quality. With high speed it takes only about one-half the time to copy a tape.

- To dub both sides of a tape, start from side A for both deck A and B, and press **REVERSE MODE** so that the LED next to it lights up.

How to Copy a Tape With Regular Speed Dubbing

- Put the cassette you want to copy from into deck A for playback.
- Put the cassette you want to copy onto into deck B for recording.
 - Anything already on the cassette in deck B will be erased as the new sound from deck A is copied onto it.
- Press **REC PAUSE** on deck B.
- Press the **Play Forward** (or **Play Reverse**) on deck A.
 - Deck A starts playing and you are set to start recording deck A to deck B.
- Press the **Play Forward** (or **Play Reverse**) on deck B.
 - Recording starts, deck A playing and deck B recording.

High Speed Dubbing

Although the quality of the dubbed tape is a little less, high speed dubbing is a very convenient way to record from one tape to another.

- Put the cassette you want to copy from into deck A, and the cassette to be copied onto in deck B.
- Press **HIGH SPEED DUBBING** on the tape deck.
 - Both decks start, deck A playing and deck B recording.
 - The sound you hear is strange because it is much faster than usual, and you may not want to listen to it. Turn down the **VOLUME** control or press **FADE/MUTING** on the Remote.
 - When using High Speed Dubbing, you can also listen to another source such as the radio or the CD player, just as if you weren't dubbing.
 - During High Speed Dubbing, if you listen to a CD with **Auto Power Off** turned on, the whole Unit, including the tape decks, may turn off when the CD ends.

Recording selections from several different tapes

When you want to take selections from several different tapes and combine them on one tape during high speed dubbing, follow these steps:

- Press **Stop** on deck A.
 - This causes deck A to stop, so you can change tapes, and deck B makes a 4 second blank and pauses.
- Change the tape in deck A.
- Press **HIGH SPEED DUBBING** to start deck A playing and deck B recording again.

Important dubbing information

- Dolby NR is inactive in dubbing mode regardless of the setting of the **DOLBY B NR** switch. The dubbed tape automatically contains the same processing as the source tape. The **DOLBY B NR** indicator goes off automatically.
- It is preferable that the tape type (Type I or II) you record from be the same as the tape type you record onto. When the tape you are recording from in deck A is a **METAL** (type IV) tape, use a **CO** (type II) tape for recording in deck B.
- During regular speed dubbing you can only listen to the source tape. If you don't want to hear it, turn down the **VOLUME** control or press **FADE/MUTING** on the Remote. Only the sound you hear will be affected; the recording level is controlled automatically.
- You cannot dub using the sound effects such as **POPS**, **STADIUM**, etc.

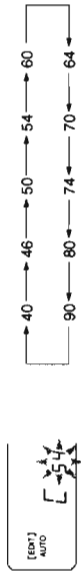
Tape to Tape Dubbing, Introduction

Regular Speed Dubbing, Step by Step

High Speed Dubbing, Step by Step



- Press **EDIT** on the CD player so that "[EDIT/AUTO]" appears in the display. The system tells you the minimum standard tape length to use.
 - You can select a different length of tape, depending on the actual size of the tape, you are using, from ten possibilities programmed into the CA-S50RBK: 40, 46, 50, 54, 60, 64, 70, 74, 80, 90. Cycle through these choices using the **SEARCH/EDIT TIME** or **▶▶▶** until you find the length closest to your tape's actual length.



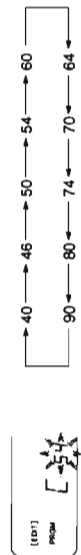
- You can use the **CD** **IOKEY** and the numeric buttons on the Remote to set the tape length as you wish. In this case, it is not necessary to press **SIDE A/B** in step 6 below.
- Press **SIDE A/B**, and the display shows which tracks will go on side A and which on side B. Each time you press **SIDE A/B** the display switches between A and B.
- Now press **CD REC START** on the tape deck. The **FADE** indicator lights up on the display. The tape automatically rewinds to the beginning of the front side (A), a 10 second blank is created, and the CD begins to play and be recorded. (A 10 second blank is also created on the beginning of the reverse side (B).)
- If you use a tape shorter than the total playing time of the CD, the last recorded selection will be fading out at the both ends of the tape.
- To stop recording any time during the process, press either **Stop** on deck B or **■/CLEAR** (when you press **■/CLEAR** you can make a 4 second blank at the end of the recording). But remember: after you stop, if you restart, the tape will rewind and start recording the CD from the beginning. Pressing **▲ OPEN/CLOSE** will also stop recording.

Recording a CD onto a Tape Using Programmed Edit

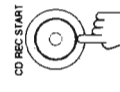
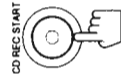
Using **Programmed Edit**, you can decide for yourself the selections to be recorded in your desired order. First, you will have to edit the Unit the tape size you are using if your tape is a different size than the one picked by the Unit. Then, you can make your program as you wish.

Follow this procedure to record a CD using **Programmed Edit**.

- Put the cassette in deck B.
- Load the CD into the CD Player.
 - If the CD is already loaded, be sure the power is on and the source is CD. If the last selected source is tuner, the Unit will not recognize the loaded CD when turning on the Unit by pressing **POWER**.
- Set the sound effects you want now, since the sound environment cannot be changed once recording starts.
- Press **■/CLEAR**.
 - This cancels the previous edit or program setting.
- Press **EDIT** on the CD player so that "[EDIT/PRGM]" appears in the display. The system tells you the minimum standard tape length to use.
 - You can select a different length of tape, depending on the actual size of the tape you are using, from ten possibilities programmed into the CA-S50RBK: 40, 46, 50, 54, 60, 64, 70, 74, 80, 90. Cycle through these choices using the **SEARCH/EDIT TIME** or **▶▶▶** until you find the length closest to your tape's actual length.



- You can use the **CD** **IOKEY** and the numeric buttons on the Remote to set the tape length as you wish. In this case, it is not necessary to press **SIDE A/B** in step 6 below.
- Press **SIDE A/B**.
- Now the tape size is determined and you can make a program for side A. (See page 12.)
- After making a program for side A, press **SIDE A/B** again so you can make another program for side B. (See page 12.)



Programmed Edit, CD to tape, Introduction

Programmed Edit, CD to tape, Step by Step

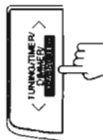
How to Use the Timers and Set the Clock

- The timers let you control recording and playing functions automatically. Five types of timers are available:
- Recording Timer**—Unattended recording of radio broadcasts.
 - Once/Daily Timer**—The Unit comes on playing a source at a particular time.
 - Wake up Timer**—Wake up to music from any source.
 - Sleep Timer**—Fall asleep and have your CA-S50RBK turn off automatically after a certain length of time.
 - Auto Power Off**—Automatically turns off the Unit when the CD or tape finishes.

- Five Timers:**
- Recording
 - Once/Daily
 - Wake up
 - Sleep
 - Auto Power Off

IMPORTANT!

Set your clock!



Recording when you're not there



Clock Setting

The timers depend on the clock. If the clock is right, the timers will work like you expect, but if the time is incorrect on the clock then the timers will also be incorrect.

Special Notice: The clock must be set, or the timers cannot be set! So, let's set the clock first.

1. Press **CLOCK ADJUST**.
2. Set the hours by pressing **TUNING/TIMER/DIMMER/CHARACTER < or >**. Pressing **>** increases the hour, and pressing **<** decreases it.
3. Press **MEMORY**.
4. Set the minutes by pressing **TUNING/TIMER/DIMMER/CHARACTER < or >**. Pressing **>** increases the minute, and pressing **<** decreases it.
5. Press **MEMORY** again and the clock is set and starts from zero second.

If there is a power failure, the clock loses its setting, the display shows "0:00" and it must be reset.

Setting the Recording Timer

With the Recording Timer you can make a tape of a radio broadcast automatically whether or not you are there to start the CA-S50RBK. For the timer to work correctly, you need to make sure that the tape you want to record onto must be in deck B when you want to record.

1. Press **REC** to tell the Unit which timer you are going to set. The **REC** indicator flashes in the display.
2. Set the time you want the sound source to come on and the tape in deck B to start recording.
 - Use **TUNING/TIMER/DIMMER/CHARACTER < or >** and **MEMORY** just like setting the clock. See instructions above.
3. Set the time you want the sound source to shut off and the tape in deck B to stop recording.
 - Use **TUNING/TIMER/DIMMER/CHARACTER < or >** and **MEMORY** just like setting the clock. See instructions above.
4. Select the station with **PRESET/PTY, TP < or >**.
5. Press **REC** again, and the Unit will memorize the setting. Now the CA-S50RBK is set to turn on and record the selected station.
 - The volume level during timer recording will be automatically set to minimum.
 - Notice that the **REC** indicator is lighted up on the display whenever the Timer is set.
6. To cancel the Timer setting, press **REC** again; the **REC** indicator on the display goes off. To check the timer contents, press **REC** so that the **REC** indicator flashes, and then press **REC** again.

You will see "VOLUME:0" on the display after setting is complete or while checking the timer contents. This indication means that the volume level during timer recording is set to minimum.

If you use the Sleep Timer during timer recording, the setting will be canceled through recording continues. In this case, recording will stop when the tape comes to its end or when the Sleep Timer shuts off the Unit.

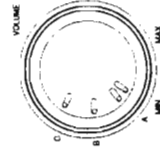
Setting the Once/Daily Timers

With these timers you can play the sound source at the specified time without recording them. The Once Timer works only once, while the Daily Timer executes the timer operation at the specified time every day.

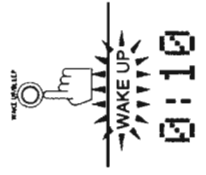
1. Press **ONCE** or **DAILY** to tell the Unit which timer you are going to set. The corresponding indicator (**ONCE** or **DAILY**) flashes in the display.
2. Set the time you want the sound source to come on.
 - Use **TUNING/TIMER/DIMMER/CHARACTER < or >** and **MEMORY** just like setting the clock.
 - 3. Set the time you want the sound source to shut off.
 - Use **TUNING/TIMER/DIMMER/CHARACTER < or >** and **MEMORY** just like setting the clock.
 - 4. Select the sound source with **TUNING/TIMER/DIMMER/CHARACTER < or >** and **MEMORY** to store it.
 - Each time you press **TUNING/TIMER/DIMMER/CHARACTER < or >**, the Unit gives you one of the following settings:

| Display | What it means |
|--------------|---|
| TUNER | Plays the last received station |
| CD | Plays a CD |
| TAPE | Plays a tape |
| --- | Plays from whichever source was used just before turning off the Unit |

- When you select **CD** as the source, you can designate the first track to play from the first 20 tracks on the disk by pressing **PRESET/PTY, TP < or >**.
 - 5. Set the volume level with **TUNING/TIMER/DIMMER/CHARACTER < or >**.
 - Each time you press **TUNING/TIMER/DIMMER/CHARACTER < or >**, the Unit gives you one of the following settings:
- | Display | What it means |
|------------------|---|
| VOLUME -- | Volume set to the level used before shut the power off. |
| VOLUME-A | Volume barely on. |
| VOLUME-B | Volume at about a 1/4 turn of the volume control |
| VOLUME-C | Volume at about a 3/8 turn of the volume control |
- 6. Press **ONCE** or **DAILY** again, and the Unit will memorize the setting. Notice that the **ONCE** or **DAILY** indicator is lighted up on the display whenever the Timer is set.
 - 7. To cancel the Timer setting, press **ONCE** or **DAILY** again; the corresponding indicator on the display goes off. To check the timer contents, press **ONCE** or **DAILY** so that the **ONCE** or **DAILY** indicator flashes, and then press **ONCE** or **DAILY** again.



Wake up to music with the Wake Up Timer



Wake Up Timer

- With this timer you can wake up to music from a CD, tape or your favourite radio program.
1. Press **POWER** to shut the Unit off.
 2. Press **WAKE UP/SLEEP**—The **WAKE UP** indicator will light up in the display.
 3. Set the time you want the Unit to turn on.
 - Each time you press **WAKE UP/SLEEP**, the wake up time lapse changes in the following order:
 - 0:10 → 0:20 → 0:30 → 1:00 → 1:30
 - WAKE UP → 12:00 → 3:00 → 2:00
 - OFF
 4. To cancel the Wake Up Timer setting, press **POWER** to turn on the Unit. The **WAKE UP** indicator remains lit in the display to let you know that the wake-up time is set.

Hints for using your Wake Up Timer:

- If you select **AM (MWLW)** or **FM** as the source, the last played station is the one which comes on at the wake-up time set.
- The volume when the timer turns on the source is the volume last set when the CA-S50RBK was turned off. This can be quite a surprise first thing in the morning, so you might want to reset it before going to sleep.
- If the CD is the source, it starts playing from the first track.

Sleep Timer: turns the Unit off automatically at a set time

Sleep Timer

Use the sleep timer to turn the Unit off after a certain number of minutes when it is playing. Using this timer, you can fall asleep to music and know your CA-S50RBK will turn off by itself rather than play all night.

- You can only set the Sleep Timer when the CA-S50RBK is on and a source is playing.
- To cancel the Sleep Timer, press POWER to turn off the Unit.

To set the Sleep Timer follow this procedure:

1. With the CA-S50RBK on and a source playing, press WAKE UP/SLEEP. The SLEEP indicator on the display will start blinking.
2. Set the length of time you want the source to play before shutting off.
3. Each time you press WAKE UP/SLEEP while the SLEEP indication is blinking, it changes the number of minutes shown on the display in this sequence:



- When the number of minutes you want is shown on the display, just wait 5 seconds until the indicator stops blinking, but remains lighted.

The Unit is now set to turn off after the number of minutes you set.

Checking the Remaining Time

After setting the Wake Up or Sleep Timer, you can check the time remaining until the Unit turns on (Wake Up Timer) or shuts off (Sleep Timer).

- Pressing WAKE UP/SLEEP shows you the remaining time on the display for 5 seconds. Then the display returns to the clock time display (Wake Up Timer) or the radio frequency display (Sleep Timer).

Turning off the CA-S50RBK Automatically

When playing either a tape or a CD, Auto Power Off will shut the Unit off when the tape or CD comes to the end. Auto Power Off is very useful for shutting off the CA-S50RBK at night.

- To use Auto Power Off, press AUTO POWER OFF.
 - If the AUTO OFF indicator in the display is on, Auto Power Off is on, and the source will automatically turn off when the tape or CD finishes.
 - If the AUTO OFF indicator is off, Auto Power Off is also off.

Important information on using Auto Power Off

- CD repeat mode cannot be used with Auto Power Off. If you do so, the repeat mode will be canceled so that Auto Power Off will be able to work.
- If you press AUTO POWER OFF while the tape is playing:
 - If Reverse Mode is off (the Reverse Mode LED is not lit), the Unit turns off when the currently playing side finishes.
 - If Reverse Mode is on (the Reverse Mode LED is lit), the Unit plays the side currently playing, reverses and plays the other side, then shuts off.

Timer Priority

Since each timer can be set independently, you may have wondered what happens if the settings overlap. Here are the priorities for each timer.

- The Wake Up Timer will have priority over any other timers.
- If the Recording, Once, and Daily Timers have the same starting time, the timer will work for only one of the three settings according to the following priority: Recording Timer > Once Timer > Daily Timer
- If the Recording, Once, and Daily Timers are set within the same time range, each timer will come on at the time you have set. If another timer is already on, that timer will be shut off when the second timer starts.
- If the Sleep Timer has been set within the same time range as another timer, the other timer operation will be executed until the Sleep Timer shuts off the Unit. In this case, the setting for the other timer will be canceled.
- Timer operations with the starting time while the Sleep Timer is operating will not be executed. When the set time comes, the REC or ONCE indication goes off. (The DAILY indication does not go off.)
- If the Sleep Timer and Auto Power Off have been set within the same time range, the timer operation with the earlier ending time will have priority.
- If a timer operation begins during Auto Power Off, the timer operation will have priority.
- If Auto Power Off is used during a timer operation, Auto Power Off will have priority.

Singing Along

When you press VOCAL MASKING, the lead vocal is reduced, and you can replace it by singing into the microphone as the music plays. No microphone is supplied with the CA-S50RBK, so you can select your own from the many kinds available.

How to Sing Along with Vocal Masking

1. Turn the MIC MIXING control all the way counterclockwise to the MIN position.
2. Attach the microphone (not supplied) by plugging it into the MIC jack in the amplifier section.
3. Start the source—CD, Tape, connected VCR, Record Player.
4. Press VOCAL MASKING—the LED will light up.
5. Now adjust the volume of the source with the main VOLUME control, and the volume of your voice with the MIC MIXING control as you sing into the microphone.

Recording Your Singing-Along

- You cannot record your singing along when the main source is a tape in deck A.

 1. Put the cassette you want to record onto in deck B.
 2. Press REC PAUSE—see Recording, page 15 if you need more information about tape recording.
 3. Follow the above procedure: "How to Sing Along with Vocal Masking."
 4. Press Play Forward▷ (or Play Reverse◁) on deck B, and deck B will start recording the source together with your voice in place of the lead vocal.

Important information about Vocal Masking

- Since the radio signal is not as reliable as signals coming from a tape or CD, you may not always get satisfactory results using the radio as a source for Vocal Masking.
- Some tapes and CDs are better sources for singing along than others.
 - Monaural sources are not suitable for Vocal Masking.
 - On sources with duets, strong echoes, a chorus, or with only a few instruments, the singer's voice may not be completely reduced.
 - Poorly dubbed tapes may not work well for Vocal Masking.

Recording from the Microphone

You can use the microphone for two kinds of recording:

- Mixing—Sound going into the microphone is mixed with sound sent to the tape in deck B from some other source, such as the CD, or radio.
- Regular recording—Only sound picked up by the microphone is recorded.

Mixing

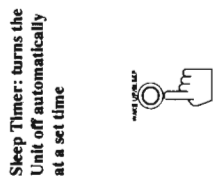
1. Put the cassette you want to record onto in deck B.
2. Connect the microphone to the MIC jack.
3. Set deck B to recording pause mode by pressing REC PAUSE.
4. Start the source (radio, CD, and PHONO/AUX) and set the VOLUME control.
5. Adjust the microphone volume with the MIC MIXING control.
6. When you are ready to record, press Play Forward▷ (or Play Reverse◁) on deck B, and both sounds from the microphone and from the playing source will be recorded.

Regular Microphone Recording

1. Put the cassette you want to record onto in deck B.
2. Connect the microphone to the MIC jack.
3. Set deck B to recording pause mode by pressing REC PAUSE.
4. Adjust the volume of the microphone with the MIC MIXING control.
5. Now when you press Play Forward▷ (or Play Reverse◁) on deck B, whatever sounds the microphone picks up will be recorded.

Important information for using the microphone

- You may have to experiment some to see just where to set the MIC MIXING control to get the best recorded sound.
- To prevent howling and squealing when using the microphone, adjust the MIC MIXING control and the VOLUME control, and try not to point the microphone at the speakers.
- When you are not using the microphone, keep the MIC MIXING control set to MIN. It is best to disconnect the microphone when you will not be using it for a while.



Auto Power Off: turns off your CA-S50RBK automatically

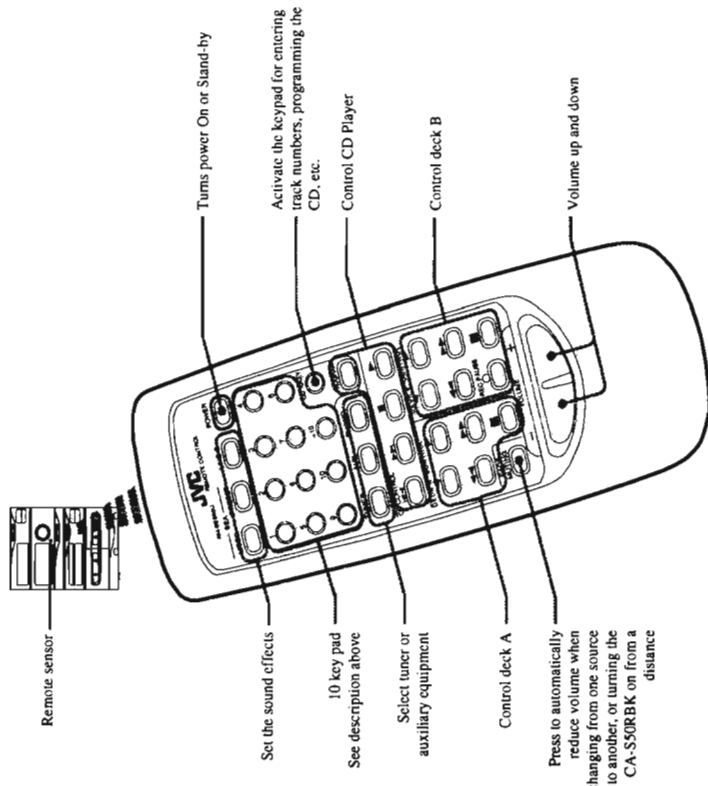
How to Use the Remote Control

The Remote Control makes it easy to control many of the functions of the CA-S50RBK from a distance of up to 7 m away.
Most of the buttons on the Remote Control do just what the ones on the front of the CA-S50RBK do, and they are explained in the manual. A few functions are available only by using the Remote Control, and those are described below.

Using the 10 Key Pad

The 10 key pad is used to specify a CD track, the number you have assigned to a preset radio station, or a sound effect. To enter a number using the 10 key pad follow these steps:

- Before using 10 key pad, check to see whether the 10 key pad is functioning to operate the CD player or tuner. This depends on which button on the Remote you have pressed before using 10 key pad.
- To select preset stations, press TUNER first.
- To select CD tracks, press CD 10KEY first.
- For numbers between 1 and 10, just press the button with the number you want.
- For numbers from 11 to 20, first press the +10 key, then the one's digit of the number you want—to get 15, first press +10, then 5. For 20, press +10 and 10.
- For numbers from 21 to 30, press the +10 key twice; then press the one's digit—to get 25, press +10 +10 and 5. For 30, press +10 +10 and 10.
- For numbers from 31 and 40, follow the same procedure; only press the +10 key three times, then the one's digit—to get 32, press +10 +10 +10 and 2.



Specifications

Tuner/Amplifier Section

Amplifier

Output Power (IEC 268-3/DIN) 35 watts per channel, min. RMS, both channels driven, into 8 ohms at 1 kHz with no more than 0.9% total harmonic distortion.

Input Sensitivity/Impedance (1 kHz) 3 mV/47 kohms
PHONO 300 mV/47 kohms
AUX/VIDEO 2 mV/10 kohms
MIC

Speaker terminals 8 ohms

Tuner

FM Tuner 87.5 – 108.0 MHz
Tuning Range 0.95 μ V/75 ohms (10.8 dBf)
Usable Sensitivity MONO (at 85 dBf) 80 dB
Signal-to-Noise Ratio STEREO (at 85 dBf) 73 dB
(IHF-A weighted)
(DIN)

AM (MW/LW) Tuner MW-Tuning Range 522 – 1,629 kHz
LW-Tuning Range 144 – 288 kHz

Dimensions (Approx.) 245 x 183 x 343 mm (w/h/d)
(9^{1/8} x 7^{1/8} x 13^{3/8} in.)
Weight (Approx.) 5.0 kg (11.1 lbs)

CD/Tape Deck Section

Tape deck

Frequency response 30 – 16,000 Hz
C/O: (Type II): 30 – 15,000 Hz
Normal (Type I): 0.09% (WRMS)/0.2% (DIN)
Wow and Flutter

Compact Disc Player Dynamic Range (1 kHz) 96 dB
Signal-to-Noise Ratio 102 dB
Wow and Flutter Unmeasurable

Dimensions (Approx.)

245 x 183 x 295 mm (w/h/d)
(9^{1/8} x 7^{1/8} x 11^{3/8} in.)
(Maximum depth 394 mm (15^{1/8} in.) with the CD tray open)
4.2 kg (9.3 lbs)

Power specifications

Power Requirements AC 230 V \pm 50 Hz
Power Consumption 112 watts

Supplied Accessories

FM wire antenna (only for Germany) (1)
FM feeder antenna (except for Germany) (1)
AM (MW/LW) loop antenna (1)
Remote control (RM-SES50U) (1)
Batteries R03(UM-4)/AAA(24F) (2)
Antenna adaptor (except for Germany) (1)

Design and specifications are subject to change without notice.

Technical Explanation

1. Outline

RDS (Radio Data System) means the system to transmit control signal such as frequency information for tuning, traffic information and so on.

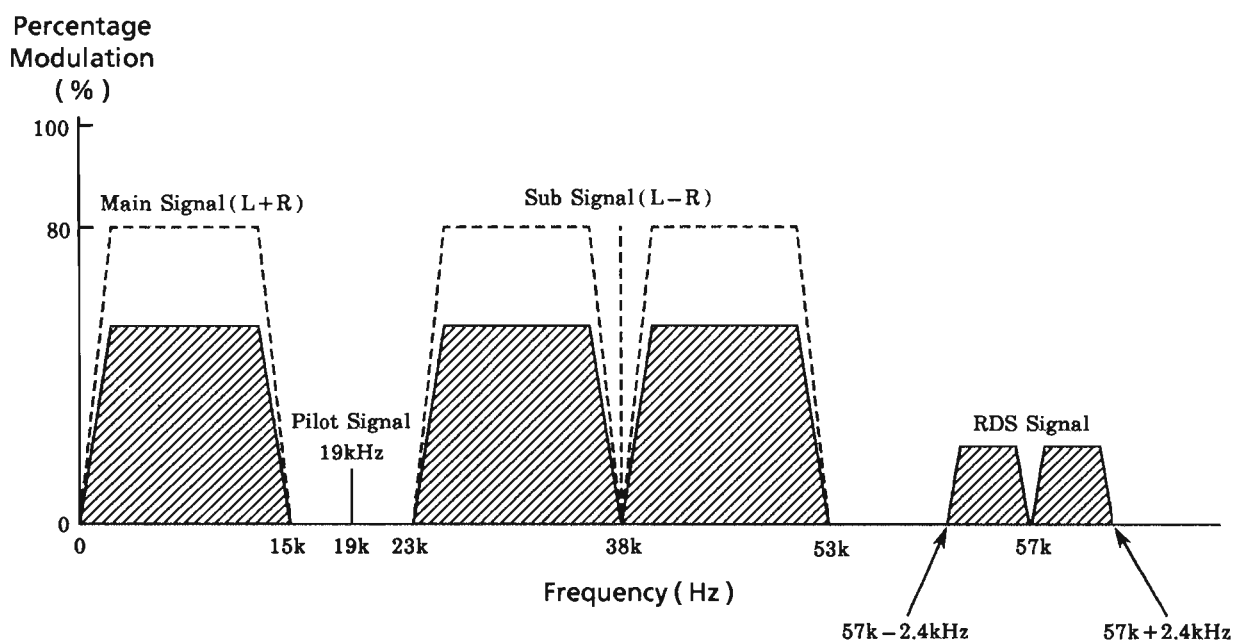
RDS signal which is DSB modulated at sub carrier frequency of 57kHz is FM modulated into main carrier signal.

Table-1 shows the details for RDS signal.

Figure 1 shows the frequency spectrum at RDS signal and stereo modulated (composite) signal.

[Table-1] RDS signal's Specification

| | Item | Specification |
|-----------------|-----------------------------|---|
| Modulation Form | Sub Carrier Frequency | 57kHz |
| | Sub Carrier Modulation Form | Duble Sideband Carrier Suppression Amplitude Modulation |
| | Frequency Deviation | RDS only : $\pm 2\text{kHz}$ TRI: $\pm 1.2\text{kHz}$ |
| | Data Modulation Form | Two Phase PSK (Phase Shift Keying) |
| | Data Coding Form | Differential Coding |
| | Occupied Bandwidth | $57\text{kHz} \pm 2.4\text{kHz}$ ($\sqrt{100\%}$ cosine roll off Characteristic) |
| Data Form | Bit late | 1,187.5bit/s |
| | Error correcting | (26,16) Reduction Cyclic Code |
| | 1 Block | 26bit |
| | 1 Group | 104bit (4 block) |
| | Synchronism Form | Offset ward |



[Fig. 1] Frequency Spectrum at RDS signal & Stereo modulated Signal

CA-S50RBK

RX-S50RBK

– Contents –

| | |
|--|------|
| Discription of Major LSIs | 2-2 |
| Internal Connections of FL Display | 2-10 |
| Disassembly Procedures | 2-12 |
| Adjustment Procedures | 2-13 |
| Block Diagram | 2-14 |
| Printed Circuit Boards | 2-16 |
| Schematic Diagrams | 2-20 |

Description of Major LSIs

■ MN171202JHF (IC901) : System Controller

1. Terminal Layout

| | | | |
|-------------|----|----|-------------|
| VDD | 1 | 64 | OSC2 |
| S1 | 2 | 63 | OSC1 |
| S2 | 3 | 62 | GND |
| S3 | 4 | 61 | NC |
| S4 | 5 | 60 | GND |
| S5 | 6 | 59 | CS |
| S6 | 7 | 58 | CS |
| S7 | 8 | 57 | KEY11 |
| S8 | 9 | 56 | KEY10 |
| S9 | 10 | 55 | AC RELAY |
| S10 | 11 | 54 | SPK RELAY |
| S11 | 12 | 53 | TU RESET |
| S12 | 13 | 52 | TU INH |
| S13 | 14 | 51 | SURR ON/OFF |
| S14 | 15 | 50 | S.MUTE |
| S16 | 16 | 49 | P.CONT |
| MSEC | 17 | 48 | DCS OUT |
| -BP | 18 | 47 | DCS IN |
| VOL UP | 19 | 46 | INH |
| VOL DOWN | 20 | 45 | REMOCON IN |
| 10G | 21 | 44 | PROTECT IN |
| 9G | 22 | 43 | RESET |
| 8G | 23 | 42 | SPI CK |
| 7G | 24 | 41 | SPI CS |
| 6G / KEY O5 | 25 | 40 | SPI DA |
| 5G / KEY O4 | 26 | 39 | |
| 4G / KEY O3 | 27 | 38 | DATA |
| 3G / KEY O2 | 28 | 37 | STB |
| 2G / KEY O1 | 29 | 36 | CLK |
| 1G / KEY O0 | 30 | 35 | ABX ON/OFF |
| STAND BY | 31 | 34 | DEMO |
| VOL IND | 32 | 33 | A.P.OFF |

2. Key Matrix

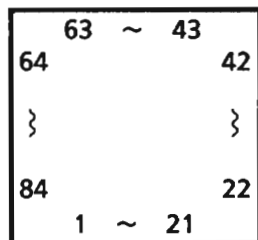
| | | |
|----------------------|--------------------------|---------------------|
| | KEY IN 0 (PIN56) | KEY IN 1 (PIN57) |
| KEY OUT 0 (PIN30) | POWER | AUTO POWER OFF |
| KEY OUT 1 (PIN29) | AUX | PHONO |
| KEY OUT 2 (PIN28) | ACTIVE BASS EXTENSION | OFF |
| KEY OUT 3 (PIN27) | PRESET ◀ | PRESET ▶ |
| KEY OUT 4 (PIN26) | MODE | LIVE-S |
| KEY OUT 5 (PIN25) | MSEC | DEMO |

3. Pin Functions

| Pin No. | Symbol | I/O | Function and Operations | Pin No. | Symbol | I/O | Function and Operations |
|---------|----------|-----|--------------------------------------|---------|-------------|-----|--|
| 1 | VDD | — | Power supply | 33 | A.P.OFF | O | Auto power off indication control |
| 2 | S1 | O | Segment control signal | 34 | DEMO | O | DEMO indication control |
| 3 | S2 | O | Segment control signal | 35 | ABX ON/OFF | O | ABX control signal |
| 4 | S3 | O | Segment control signal | 36 | CLK | O | Clock output for 501 and 512 |
| 5 | S4 | O | Segment control signal | 37 | STB | O | Strobe signal for IC501 and 512 |
| 6 | S5 | O | Segment control signal | 38 | DATA | O | Data for IC501 and 512 |
| 7 | S6 | O | Segment control signal | 39 | NC | — | Non connection |
| 8 | S7 | O | Segment control signal | 40 | SPI DA | O | Control data for IC001 |
| 9 | S8 | O | Segment control signal | 41 | SPI CS | O | Strobe signal for IC001 |
| 10 | S9 | O | Segment control signal | 42 | SPI CK | O | Clock output for IC001 |
| 11 | S10 | O | Segment control signal | 43 | RESET | I | Reset signal input |
| 12 | S11 | O | Segment control signal | 44 | PROTECT IN | I | Detection for protector |
| 13 | S12 | O | Segment control signal | 45 | REMOCON IN | I | Remote control signal input |
| 14 | S13 | O | Segment control signal | 46 | INH | I | Inhibit signal input |
| 15 | S14 | O | Segment control signal | 47 | DCS IN | I | Compulink signal input |
| 16 | S16 | O | Segment control signal | 48 | DCS OUT | O | Compulink signal output |
| 17 | MSEC | O | MSEC indication control | 49 | P.CONT | O | Power control for the deck / Indicate the 'Stand-by' |
| 18 | -BP | — | Power supply for FL display | 50 | S.MUTE | O | Muting signal when changing the source |
| 19 | VOL UP | O | Volume up control signal | 51 | SURR.ON/OFF | O | Live surround control signal |
| 20 | VOL DOWN | O | Volume down control signal | 52 | TU. INH | O | Inhibit signal for tuner controller |
| 21 | 10G | O | Grid control signal | 53 | TU RESET | O | Reset signal for tuner controller |
| 22 | 9G | O | Grid control signal | 54 | SPK RELAY | O | Speaker relay control signal |
| 23 | 8G | O | Grid control signal | 55 | AC RELAY | O | AC relay control signal |
| 24 | 7G | O | Grid control signal | 56 | KEY10 | O | Key matrix input |
| 25 | 6G/KO5 | O | Grid control signal (Key matrix out) | 57 | KEY11 | O | Key matrix input |
| 26 | 5G/KO4 | O | Grid control signal (Key matrix out) | 58 | CS | I | Chip select signal for IC901 |
| 27 | 4G/KO3 | O | Grid control signal (Key matrix out) | 59 | CS | I | Chip select signal for IC901 |
| 28 | 3G/KO2 | O | Grid control signal (Key matrix out) | 60 | GND | — | Connected to GND |
| 29 | 2G/KO1 | O | Grid control signal (Key matrix out) | 61 | NC | — | Non connection |
| 30 | 1G/KO0 | O | Grid control signal (Key matrix out) | 62 | GND | — | GND |
| 31 | STAND BY | O | Stand by indication control | 63 | OSC1 | — | Oscillation terminal |
| 32 | VOL IND. | O | Volume indication control | 64 | OSC2 | — | Oscillation terminal |

■ MN172412JYC1 (IC201) : Tuner Controller

1. Terminal Layout



2. Key Matrix

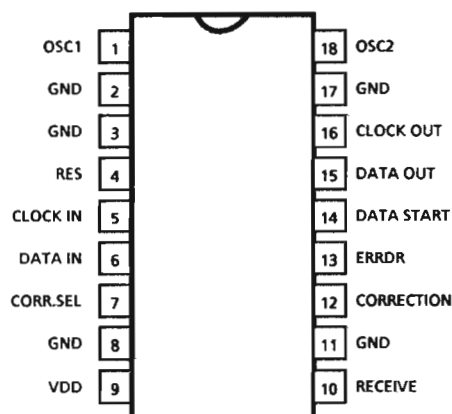
| | KEY IN 0 (PIN56) | KEY IN 1 (PIN57) | KEY IN2 (PIN58) | KEY IN3 (PIN59) |
|-------------------|------------------|------------------|-----------------|-----------------|
| KEY OUT 0 (PIN60) | WAKE-UP / SLEEP | ONCE TIMER | DAILY TIMER | REC TIMER |
| KEY OUT 1 (PIN61) | DISPLAY MODE | CLOCK ADJ | CANCEL | MEMORY |
| KEY OUT 2 (PIN62) | UP | DOWN | PRESET UP | PRESET DOWN |
| KEY OUT 3 (PIN63) | — | — | — | — |
| KEY OUT 6 (PIN66) | PRESET SCAN | FM MODE | FM | AM |
| KEY OUT 7 (PIN67) | BAND0 | BAND1 | LW 9K/10K | LW2 12/24H |

3. Pin Functions

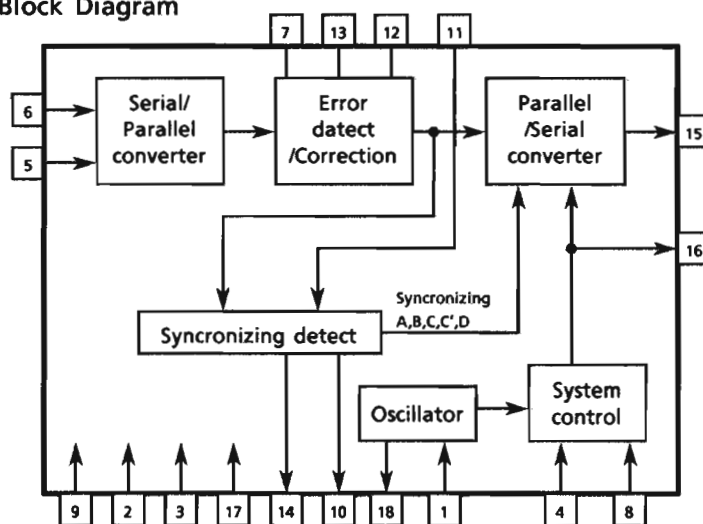
| Pin No. | Symbol | I/O | Function | Pin No. | Symbol | I/O | Function |
|---------|----------|-----|-----------------------------|---------|-------------|-----|----------------------|
| 1,2 | G2,G1 | O | Grid control signal | 52 | MUTE | O | |
| 3 | NC | — | Non connection | 53 | NC | — | Non connection |
| 4~22 | 35S~17S | O | Segment control signal | 54,55 | DCS OUT/IN | I/O | Compulink signal |
| 23 | -BP | — | Power supply for FL display | 56~59 | KIN0~KIN3 | I | Key matrix input |
| 24~39 | 16S~1S | O | Segment control signal | 60~67 | KOUT0~KOUT7 | O | Key matrix output |
| 40 | CE | O | Chip enable signal output | 68 | RST | I | Reset signal input |
| 41 | CLK | O | Clock for data transmission | 69 | X1 | — | Connected to GND |
| 42 | DATA IN | I/O | Data from PLL synthesizer | 70 | X2 | — | Non connection |
| 43 | DATA OUT | O | Data for PLL synthesizer | 71 | VSS | — | GND |
| 44 | fout | O | Frequency for the clock | 72,73 | OSC2/OSC1 | — | Oscillation terminal |
| 45 | RCK | I | Clock for RDS | 74 | VDD | — | Power supply |
| 46 | RDATA | I | Data for RDS | 75 | S60R/G70R | — | Connected to GND |
| 47 | R-RST | O | Reset for RDS | 76 | TEST | I | Test mode terminal |
| 48 | INH | I | Inhibit signal input | 77 | G10(NC) | — | Non connection |
| 49 | D-ST | I | RDS data start | 78~84 | G3~G9 | O | Grid control signal |
| 50 | TUNED | I | Indication control signal | | | | |
| 51 | STEREO | I | Indication control signal | | | | |

■ LC7073M (IC191) : Radio Data System

1. Terminal Layout



2. Block Diagram



3. Pin Functions

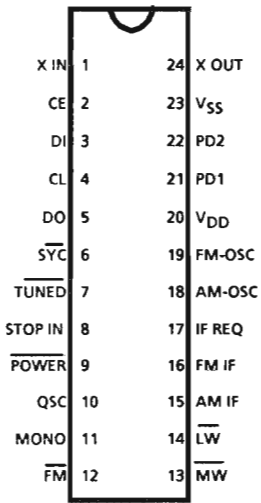
| Pin No. | Symbol | I/O | Function | Pin No. | Symbol | I/O | Function |
|-------------|-----------|-----|----------------------|---------|------------|-----|---|
| 1,18 | OSC1,OSC2 | I/O | Oscillation terminal | 10 | RECEIVE | — | Non connection |
| 2,3,8,11,17 | GND | — | GND | 12 | CORRECTION | — | Non connection |
| 4 | RES | I | Reset input | 13 | ERRDR | — | Non connection |
| 5 | CLOCK IN | I | RDS clock input | 14 | DATA START | O | Data start signal for block data to output serial data. |
| 6 | DATA IN | I | RDS data input | 15 | DATA OUT | O | Serial data output |
| 7 | CORR.SEL | I | Non connection | 16 | CLOCK OUT | O | Data output of serial data output |
| 9 | VDD | — | Power supply | | | | |

■ LC7218 (IC121) : PLL Synthesizer

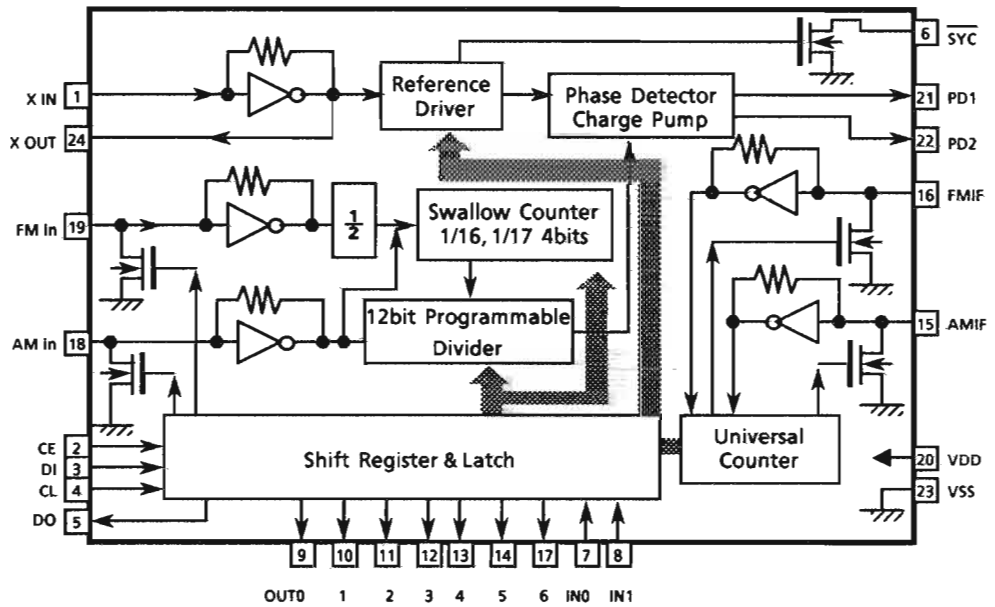
1. The main function descriptions

- (1) It makes the local oscillation frequency by the control data from IC201.
- (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 IC201.

2. Terminal Layout



3. Block Diagram

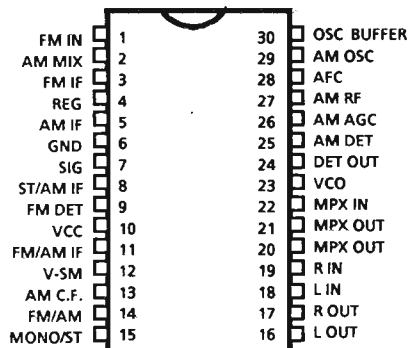


4. Pin Functions

| Pin No. | Symbol | I/O | Functions |
|---------|-----------------|-----|---|
| 1,24 | X in , X out | I/O | Crystal oscillator (7.2MHz). |
| 2 | CE | I | Fix the chip enable to "H" when inputting (DI) and outputting (DO) the serial data. |
| 3 | DI | I | Receive the control data from the controller (IC201). |
| 4 | CL | I | This clock is used to synchronize data when transmitting the data of DI and DO. |
| 5 | DO | O | Transmit the data from LC7218 to the controller which is synchronized with CL. |
| 6 | SYC | - | Not used. |
| 7 | TUNED | I | Receive the tuned signal from IC102 (LA1836). |
| 8 | STOP IN | - | Connected to GND |
| 9 | POWER | - | Not used. |
| 10 | QSC | - | Not used. |
| 11 | MONO | O | It is "H" on FM-monaural, "L" on FM-Stereo. |
| 12 | FM | O | It is "L" on FM mode. |
| 13 | MW | O | It is "L" on MW mode. |
| 14 | LW | O | It is "L" on LW mode. |
| 15 | AM-IF | I | Universal counter input for AM-IF from IC102 (LA1836). |
| 16 | FM-IF | I | Universal counter input for FM-IF from IC102(LA1836). |
| 17 | IF REQ | O | Output the "IF-signal request" to IC102 when the pin-7 (tuned in) goes to "H". |
| 18 | AMOSC | I | Input the local oscillator signal of AM. |
| 19 | FMOSC | I | Input the local oscillator signal of FM. |
| 20 | V _{DD} | - | This is a terminal of power supply. |
| 21 | 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 | - | Not used. |
| 23 | V _{SS} | - | Connected to GND |

LA1836M (IC102) : FM / AM IF Amp. & Detector

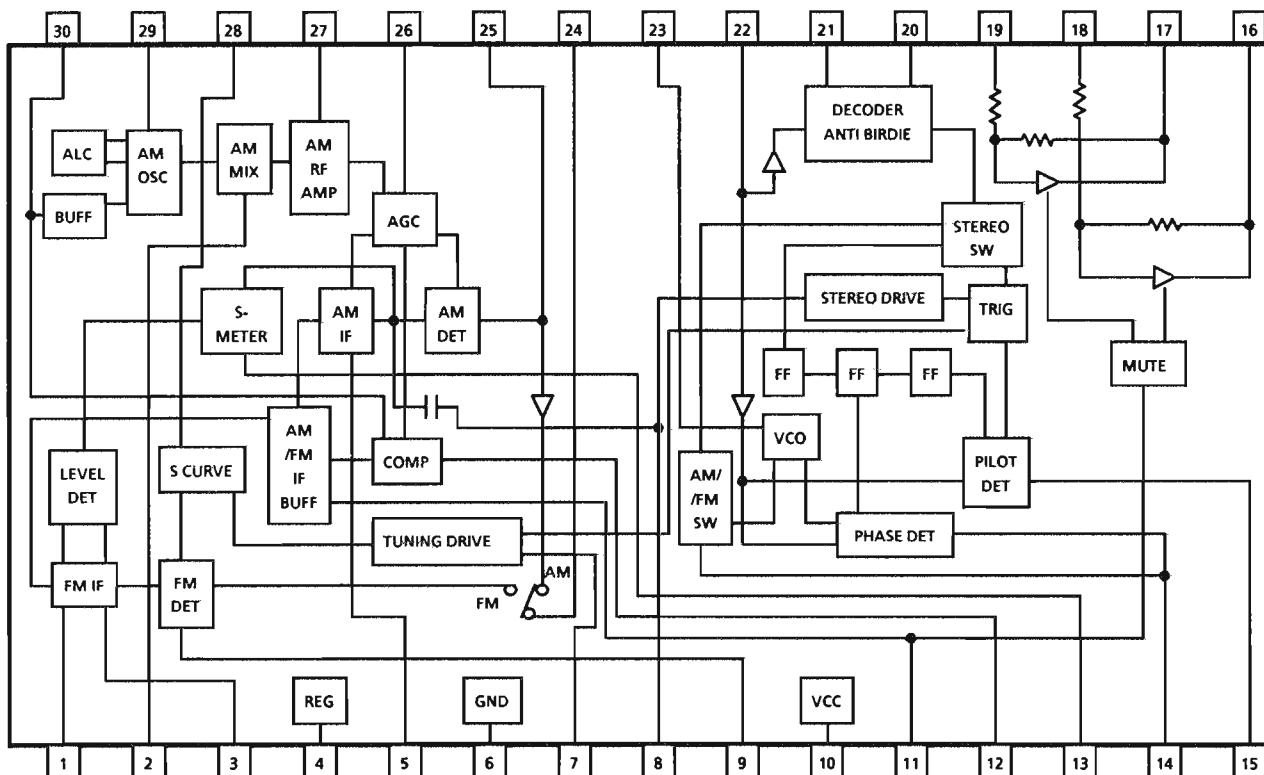
1. Terminal Layout



2. Pin Functions

| Pin No. | Symbol | I/O | Function |
|---------|------------|-----|--|
| 1 | FM IN | I | This is an input terminal of FM IF Signal. |
| 2 | AM MIX | O | This is an output terminal for AM mixer. |
| 3 | FM IF | I | Bypass of FM IF |
| 4 | REG | - | Register value between pin4 and pin28 desides the frequency width of the input signal. |
| 5 | AM IF | I | Input of AM IF Signal. |
| 6 | GND | - | This is the device ground terminal. |
| 7 | SIG | O | When the set is tuning, this terminal becomes "L". |
| 8 | ST/AM IF | O | Stereo indicator output. Stereo : "L", Mono : "H" |
| 9 | FM DET | - | FM detect transformer. |
| 10 | VCC | - | This is the power supply terminal. |
| 11 | FM/AM IF | O | When the signal of IF REQ of IC121(LC7218) appear, the signal of FM/AM IF output. |
| 12 | VSM | O | S Meter output and adjust AM SD sensitivity. |
| 13 | AM C.F. | I | This is a terminal of AM ceramic filter. |
| 14 | FM/AM | I | Change over the FM /AM input. "H" : FM, "L" : AM |
| 15 | MONO/ST | O | Stereo : "H", Mono : "L" |
| 16 | L OUT | O | Left channel signal output. |
| 17 | R OUT | O | Right channel signal output |
| 18 | L IN | I | Input terminal of the Left channel post AMP. |
| 19 | R IN | I | Input terminal of the Right channel post AMP. |
| 20 | MPX L OUT | O | Mpx Left channel signal output. |
| 21 | MPX R OUT | O | Mpx Right channel signal output. |
| 22 | MPX IN | I | Mpx input terminal. |
| 23 | VCO | I | Voltage controlled oscillator terminal. |
| 24 | DET OUT | O | AM/FM detection output. |
| 25 | AM DET | - | AM low cut adjustment. |
| 26 | AM AGC | I | This is an AGC voltage input terminal for AM. |
| 27 | AM RF | I | This is an input terminal for AM RF signal. |
| 28 | AFC | - | This is an output terminal of voltage for FM-AFC. |
| 29 | AM OSC | - | This is a terminal of AM Local oscillation circuit. |
| 30 | OSC BUFFER | O | AM Local oscillation Signal output. |

3. Block Diagram

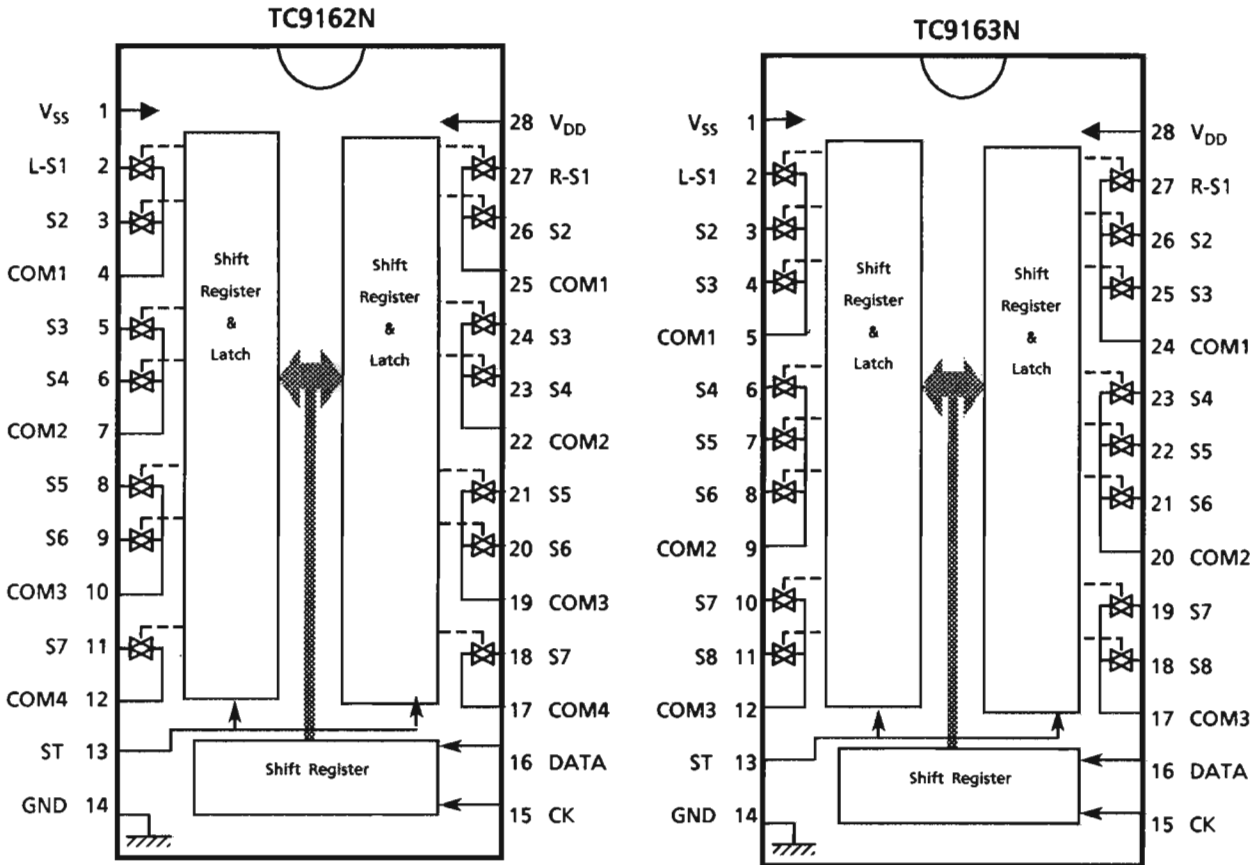


■ TC9162N (IC501), TC9163N (IC512) : Analog Switch

1. Functions

These analog switches are controlled by 14 bit serial data from computer for selecting the source.

2. Terminal Layout & Block Diagram

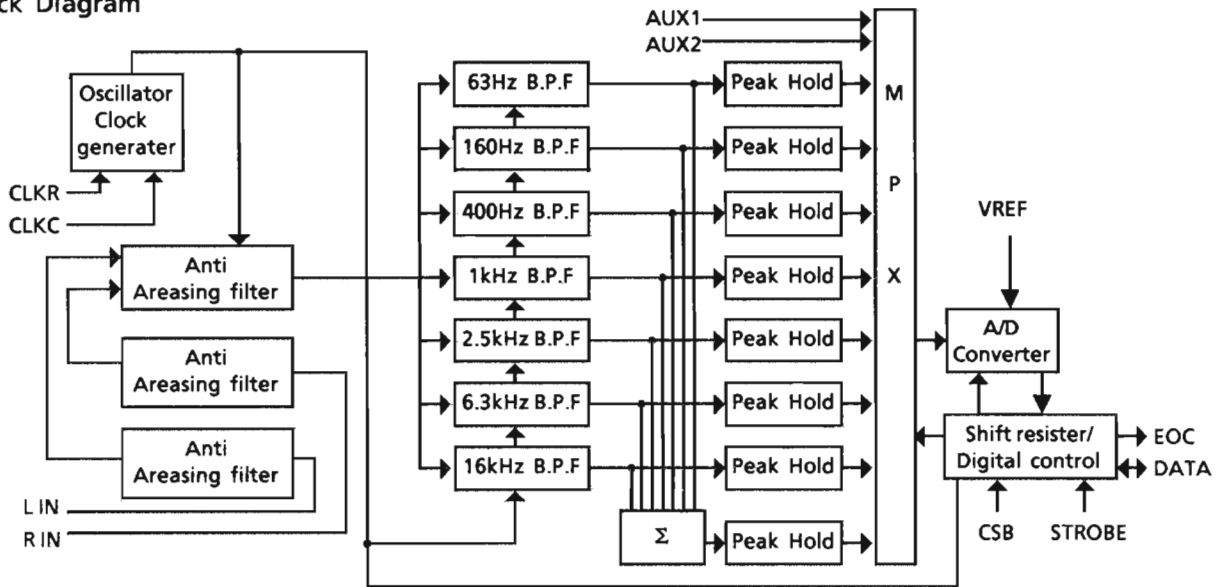


First 10bits are used to source select. Last 4bits are chip select. The switches (S1~S8) are connected to common terminals (COM1~COM3) according to the DATA from computer.

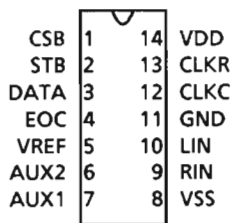
| | Chip Select Bit | | | |
|---------|-----------------|-----|-----|-----|
| | S11 | S12 | S13 | S14 |
| TC9162N | 0 | 0 | 0 | 0 |
| TC9163N | 1 | 0 | 0 | 0 |

■ XR1097CP(IC001) : 7-channel Graphic Equalizer Filter with A/D Converter

1. Block Diagram



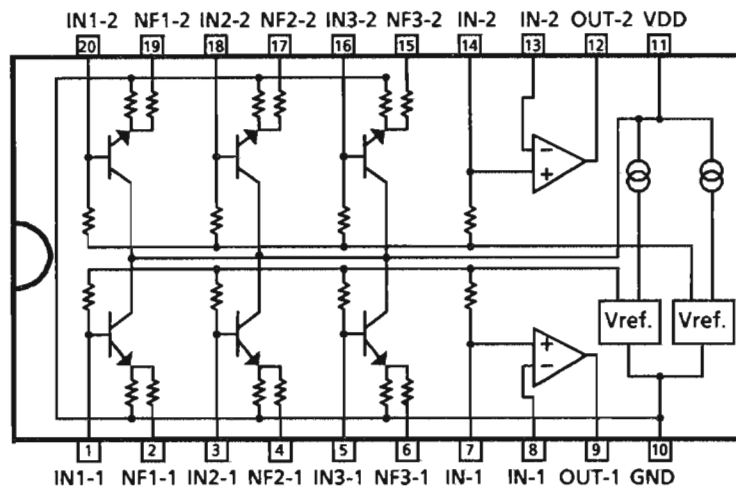
2. Terminal Layout



3. Pin Functions

| Pin No. | Symbol | I/O | Function | Pin No. | Symbol | I/O | Function |
|---------|--------|-----|---|---------|--------|-----|--------------------------|
| 1 | CSB | I | Chip select | 8 | VSS | - | -5V |
| 2 | STB | I | Strobe signal | 19 | RIN | I | Sound signal input |
| 3 | DATA | I/O | Data input / output | 10 | LIN | I | Connected to GND |
| 4 | EOC | - | Non connection | 11 | GND | - | GND |
| 5 | VREF | I | A/D converter reference voltage | 12 | CLKC | - | A capacitor is connected |
| 6 | AUX2 | I | Input the signal from the right channel speaker | 13 | CLKR | - | A resistor is connected |
| 7 | AUX1 | I | Input the signal from the left channel speaker | 14 | VDD | - | +5V |

■ M5243P12 (IC511) : S.E.A. Graphic Equalizer



RX-S50RBK

■ SAA6579T (IC192) : Radio Data System Demodulator

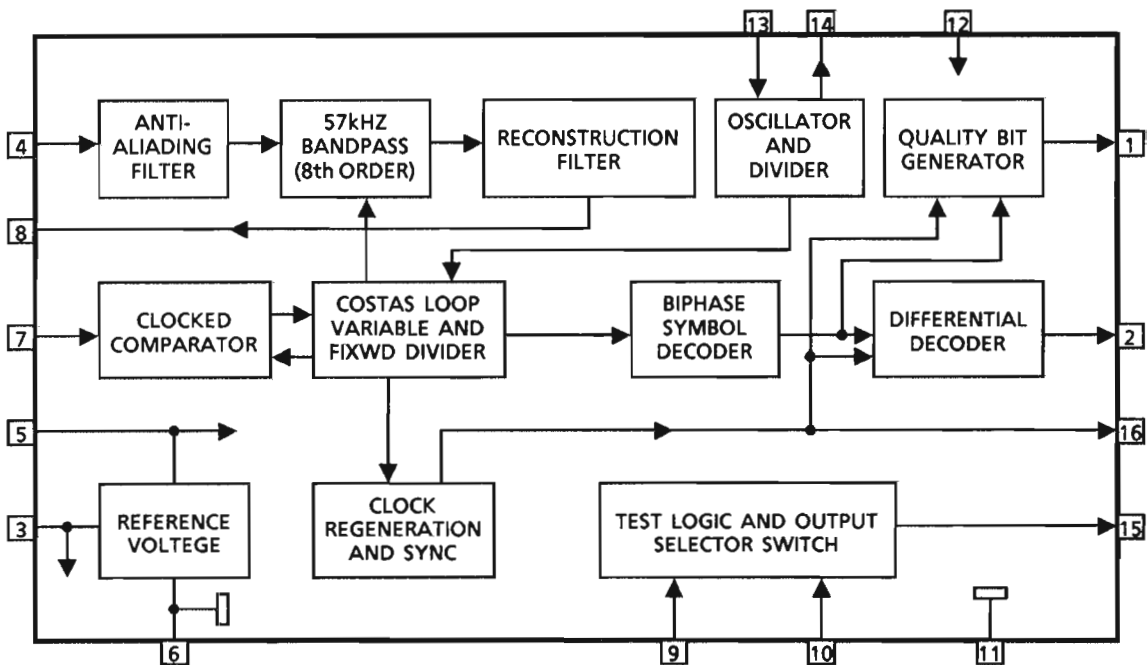
1. Terminal Layout

| | | | |
|-------|---|----|------|
| QUAL | 1 | 16 | RDCL |
| RDDA | 2 | 15 | T57 |
| Vref | 3 | 14 | OSCO |
| MUX | 4 | 13 | OSCI |
| VDDA | 5 | 12 | VDD |
| GND | 6 | 11 | GND |
| CIN | 7 | 10 | GND |
| SCOUT | 8 | 9 | GND |

2. Pin Functions

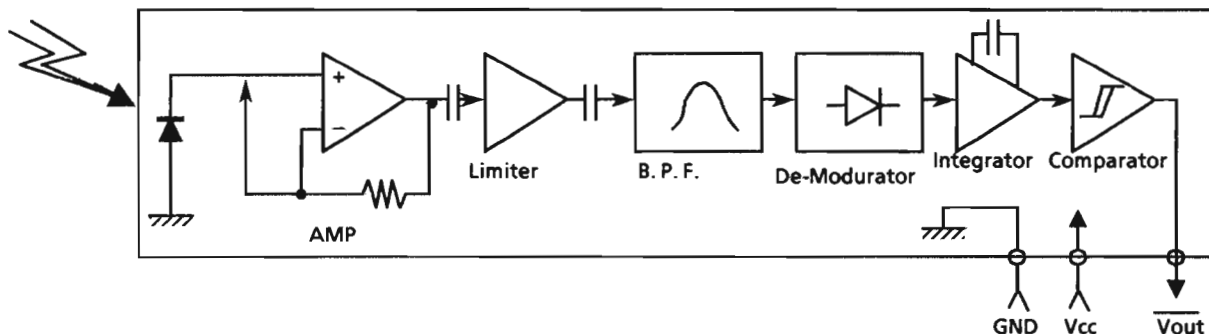
| Pin No. | Symbol | I/O | Function |
|---------|--------|-----|--|
| 1 | QUAL | — | Non connection |
| 2 | RDDA | O | RDS data output |
| 3 | Vref | O | Reference voltage output |
| 4 | MUX | I | Multiplex signal input |
| 5 | VDDA | — | +5V supply voltage for analog part |
| 6 | GND | — | Ground for analog part (0V) |
| 7 | CIN | I | Subcarrier input to comparator |
| 8 | SCOUT | O | Subcarrier output of reconstruction filter |
| 9 | GND | — | Ground for digital part (0V) |
| 10 | GND | — | Ground for digital part (0V) |
| 11 | GND | — | Ground for digital part (0V) |
| 12 | VDD | — | +5V supply voltage for digital part |
| 13 | OSCI | I | Oscillator input |
| 14 | OSCO | O | Oscillator output |
| 15 | T57 | — | Non connection |
| 16 | RDCL | O | RDS clock output |

3. Block Diagram

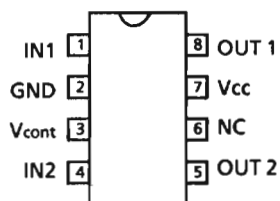


Internal Block Diagram of Other ICs

■ SPS-420-1 (IC910) : Receiver for Remote Controller

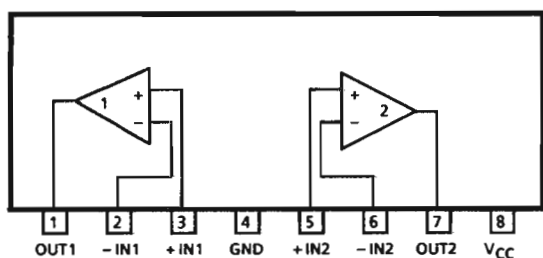


■ LB1639-CV (IC671) : Motor Driver



| IN 1 | IN 2 | OUT 1 | OUT 2 | MOTOR |
|------|------|-------|-------|---------------------|
| H | L | H | L | clockwise |
| L | H | L | H | counter - clockwise |
| H | H | OFF | OFF | waiting |
| L | L | OFF | OFF | waiting |

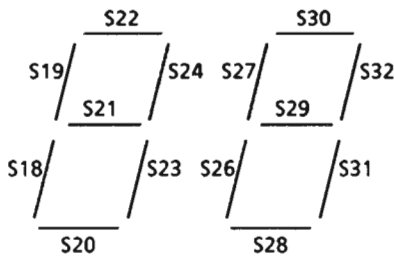
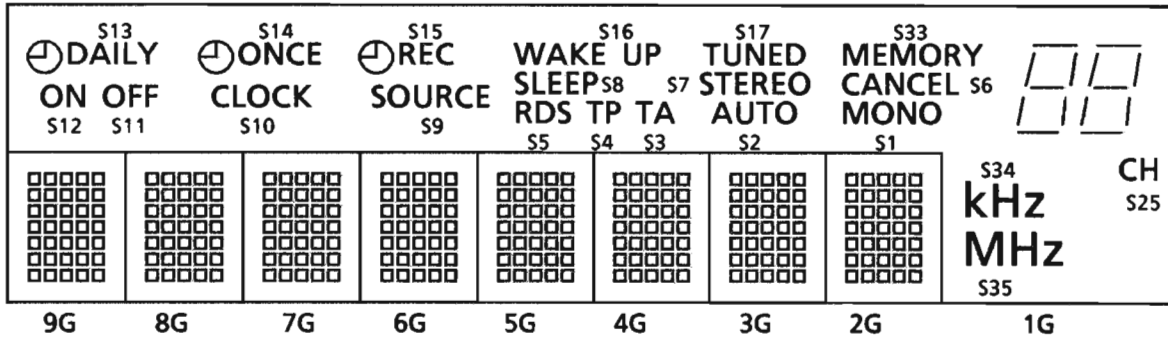
■ BA15218N or XRA15218N (IC504,514,781) : Dual OP Amp.
 VC4580L (IC502,515)
 VC4580LD (IC503)



Internal Connections of FL Display

■ ELU0001-174 : (FL201)

1. Grid Layout



2. Pin Connections

LOWER

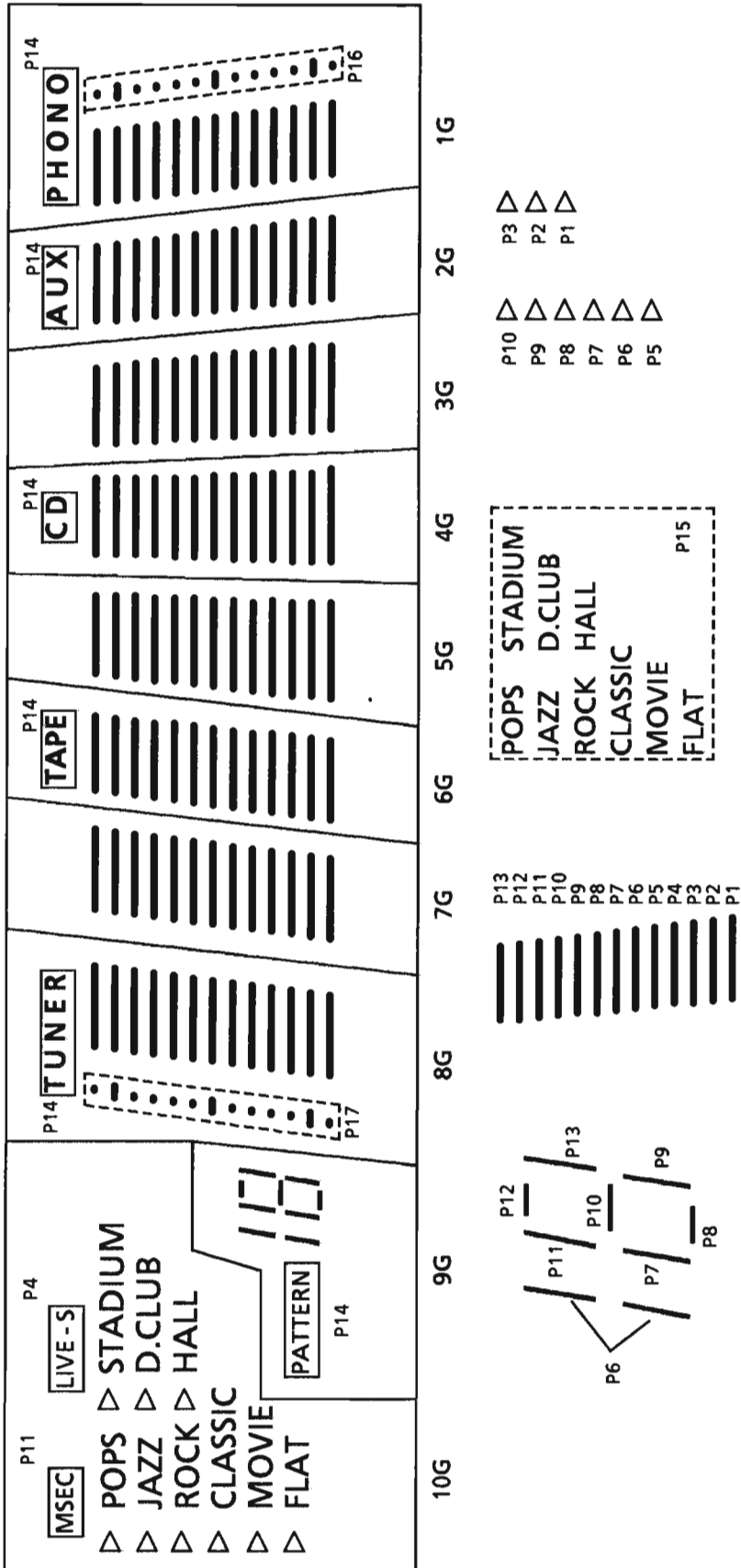
| | | | | | | | | | | | | | | | | |
|--------------|----|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| TERMINAL NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| ELECTRODE | F1 | F1 | F1 | NP | P S1 | P S2 | P S3 | P S4 | P S5 | P S6 | P S7 | P S8 | P S9 | P S10 | P S11 | P S12 |
| TERMINAL NO. | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| ELECTRODE | | P S13 | P S14 | P S15 | P S16 | NP | P S17 | P S18 | P S19 | P S20 | P S21 | P S22 | NP | F2 | F2 | F2 |

UPPER

| | | | | | | | | | | | | | | | | |
|--------------|----|-------|----|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| TERMINAL NO. | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| ELECTRODE | F2 | F2 | F2 | NP | P S23 | P S24 | P S25 | P S26 | P S27 | P S28 | P S29 | P S30 | P S31 | P S32 | P S33 | P S34 |
| TERMINAL NO. | | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 |
| ELECTRODE | | P S35 | 1G | 2G | 3G | 4G | 5G | 6G | 7G | 8G | 9G | NP | NP | F1 | F1 | F1 |

(Notes) F: Filament G: Grid P: Anode NP: No Pin

■ ELU0001-152 : (FL901)



Pin Connections

| | | | | | | | | | | | | | | | | | | | | |
|--------------|-----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| Terminal No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| ELECTRODE | F1 | F1 | NP | NP | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | P9 | P10 | P11 | P12 | P13 | P14 | P15 | P16 |
| Terminal No. | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| ELECTRODE | P17 | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP | NP |

(Notes) F:Filament NP:No Pin G:Grid P: Anode

Disassembly Procedures

■ Removing the metal cover

1. Remove the 6 screws (A) fastening the both sides and back of the metal cover to remove the cover.

■ Removing the front panel assembly

1. Remove the metal cover.
2. Disconnect the connectors J702, P701, JA901, J101 and P671.
3. Remove the 3 screws (B).
4. Release the 3 hooks to remove the assembly.

■ Removing the rear panel

1. Remove the 2 screws (D) in the broken line to remove the heat sink cover (Figure 3).
2. Remove the other screws (D).
3. Release the 2 hooks to remove the rear panel.

■ Removing the main circuit board

1. Remove the metal cover.
2. Remove the rear panel.
3. Remove the source selector & sea circuit board.
4. Remove the 3 screws (C) fixing the main circuit board to remove the circuit board.
(If necessary, remove the circuit boards on the main circuit board.)

■ Removing the display circuit board

1. Remove the front panel assembly.
2. Remove the mic mixing knob.
3. Remove the 1 screw (E) fixing the mic mixing circuit board to remove the mic mixing circuit board.
4. Remove the other screws (E) to remove the circuit board.

(Take care not to damage the pins of JA902 when disconnecting it.)

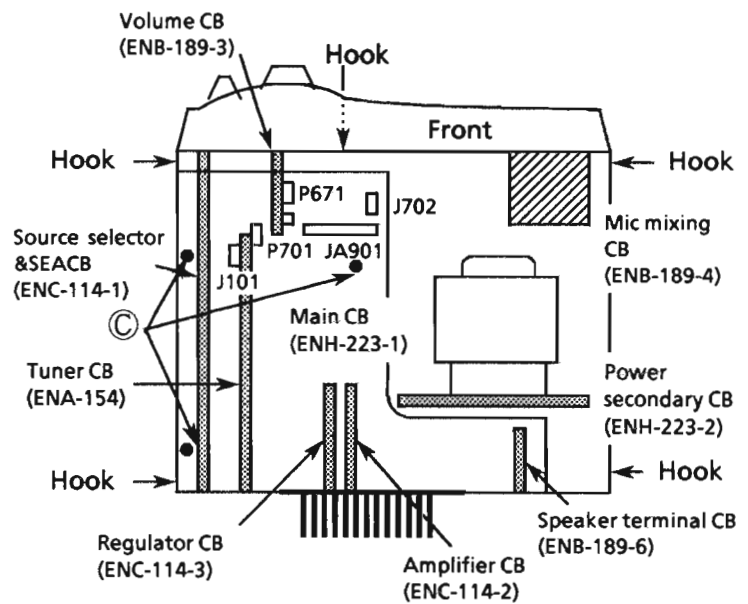
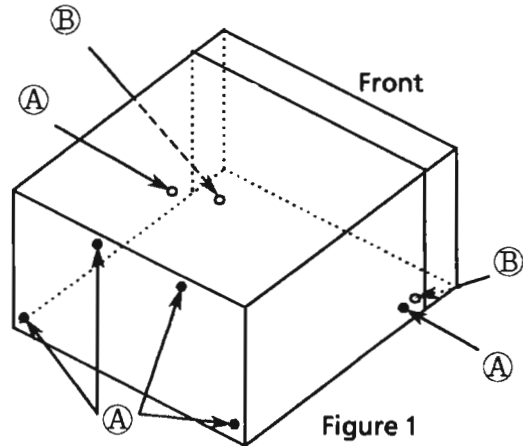


Figure 2 Top view

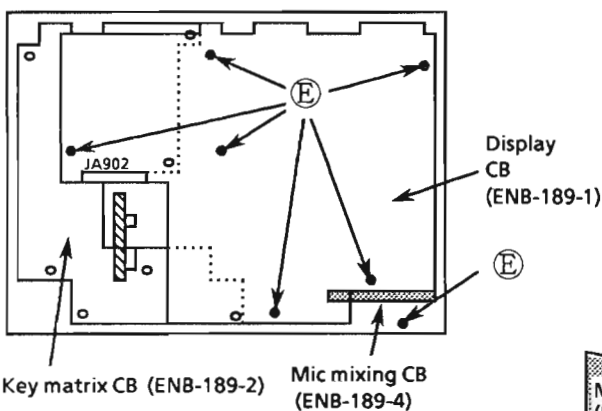


Figure 4 Behind the front panel assembly

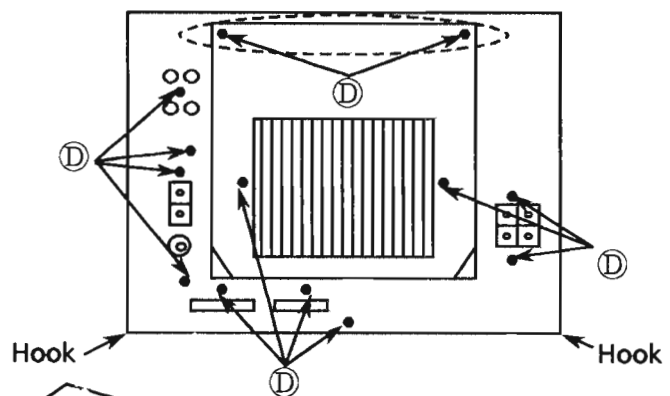


Figure 3 Rear view

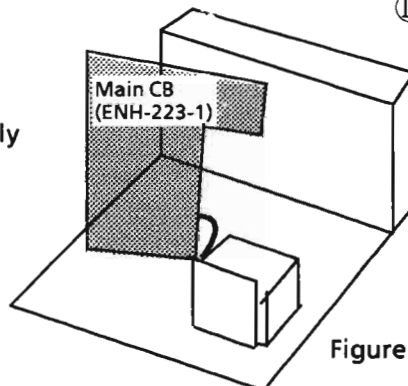
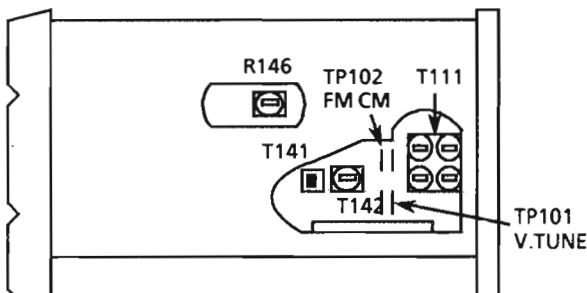


Figure 5 When checking

Adjustment Procedures

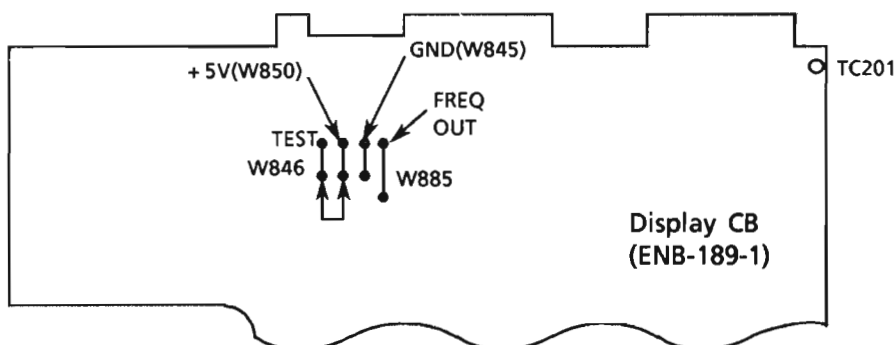
Front Panel

Rear Panel



Clock Adjustment

1. After connecting W846 and W850 with some wire as shown in the figure below, connect the AC power cord into an AC outlet.
2. Confirm that the display is off and remove the wire.
3. Connect a frequency counter to W885 and W845.
4. Adjust TC201 so that the frequency becomes $50000 \pm 0.29\text{Hz}$.



(1) Tuning voltage

Confirm the voltages at TP101 is within the standard values shown in the table below. If the voltages are not satisfied, replace T111 for MW and for LW or FE101 for FM.

FM Tuning voltage (Unit : V)

| Area | Frequency | |
|-------------------------------|-------------------|-------------------|
| | 87.5MHz | 108MHz |
| the U.K. , Continental Europe | $1.6 \pm 1.0 (V)$ | $8.0 \pm 2.0 (V)$ |

AM Tuning voltage (Unit : V)

| Area | Frequency (MW) | | | | | | | Frequency (LW) | |
|-------------------------------|----------------|--------|--------|---------|---------|-----------|---------|----------------|-----------|
| | 522KHz | 530KHz | 531KHz | 1600KHz | 1602KHz | 1629KHz | 1710KHz | 144kHz | 288kHz |
| Italy | 1.0 > 0.5 | — | — | — | — | 7.5 < 8.5 | — | 1.0 > 0.5 | 5.0 < 7.5 |
| the U.K. , Continental Europe | 1.0 > 0.5 | — | — | — | — | 7.5 < 8.5 | — | 1.0 > 0.5 | 5.0 < 7.5 |

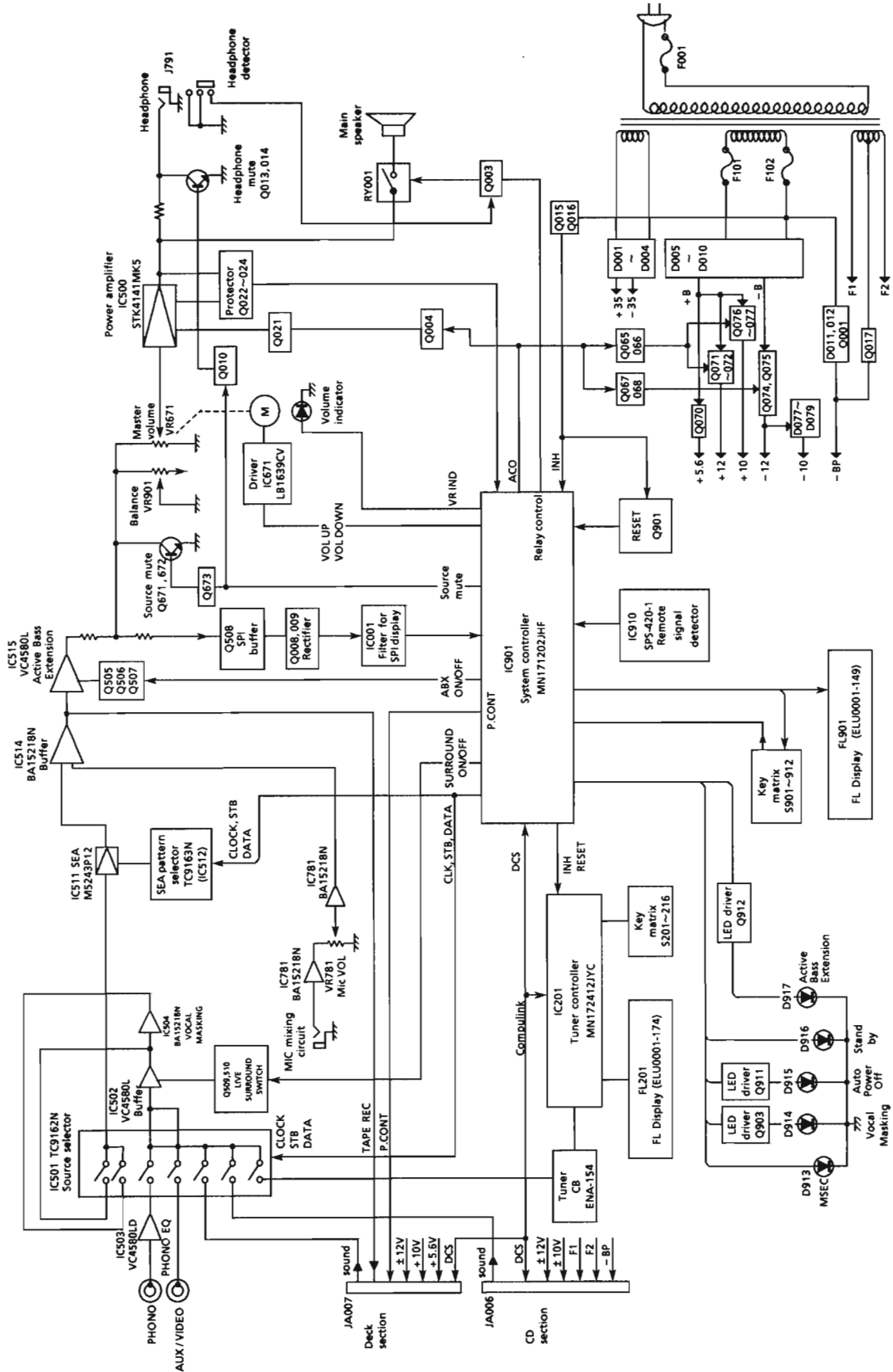
(2) FM center meter

Receive a broadcast by using the function of 'AUTO STOP'.

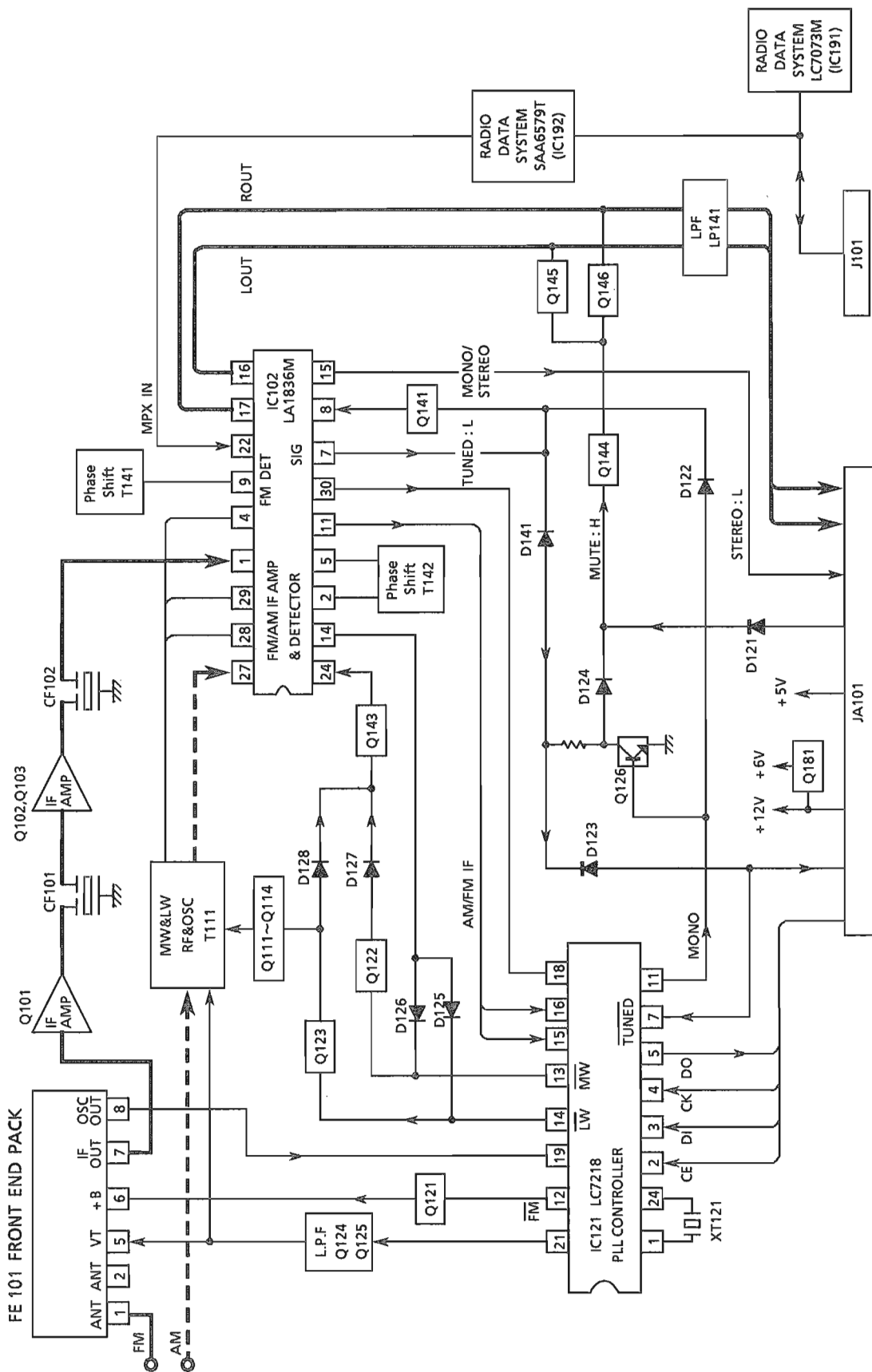
Adjust T141 (detector coil) so that the voltage at TP102 becomes $0 \pm 1.5\text{mV}$.

Block Diagrams

System Section

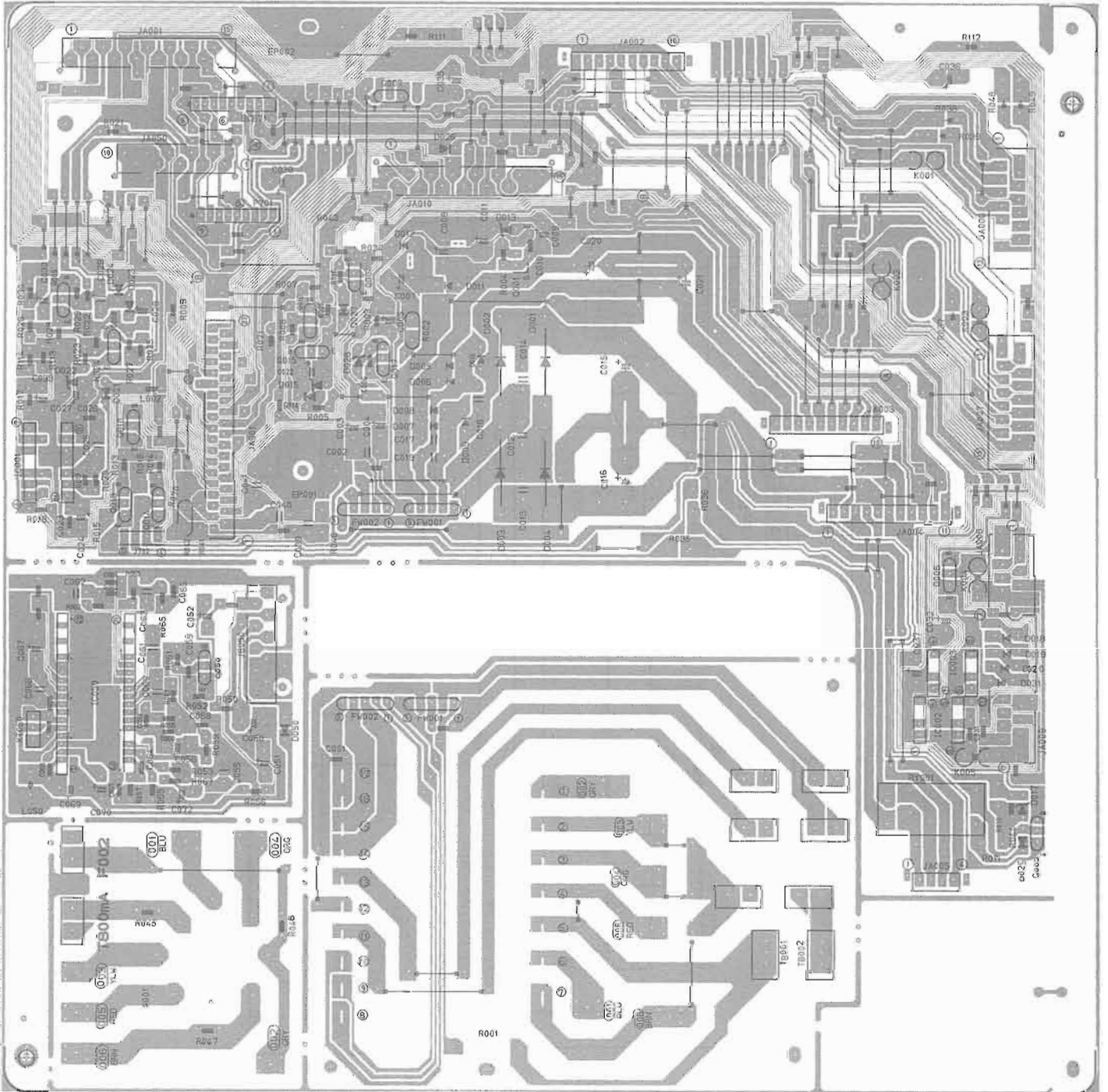


■ Tuner Section

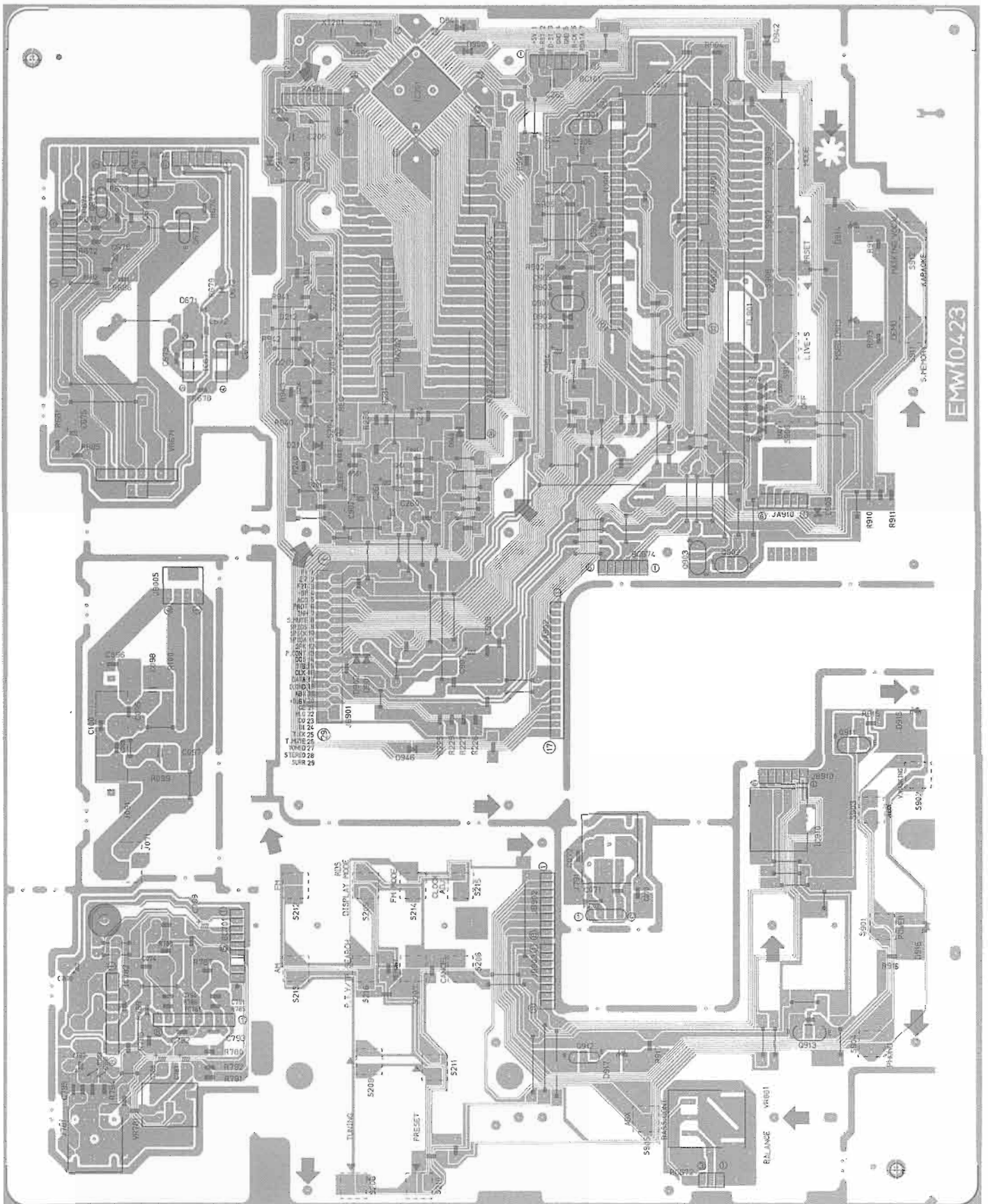


Printed Circuit Boards

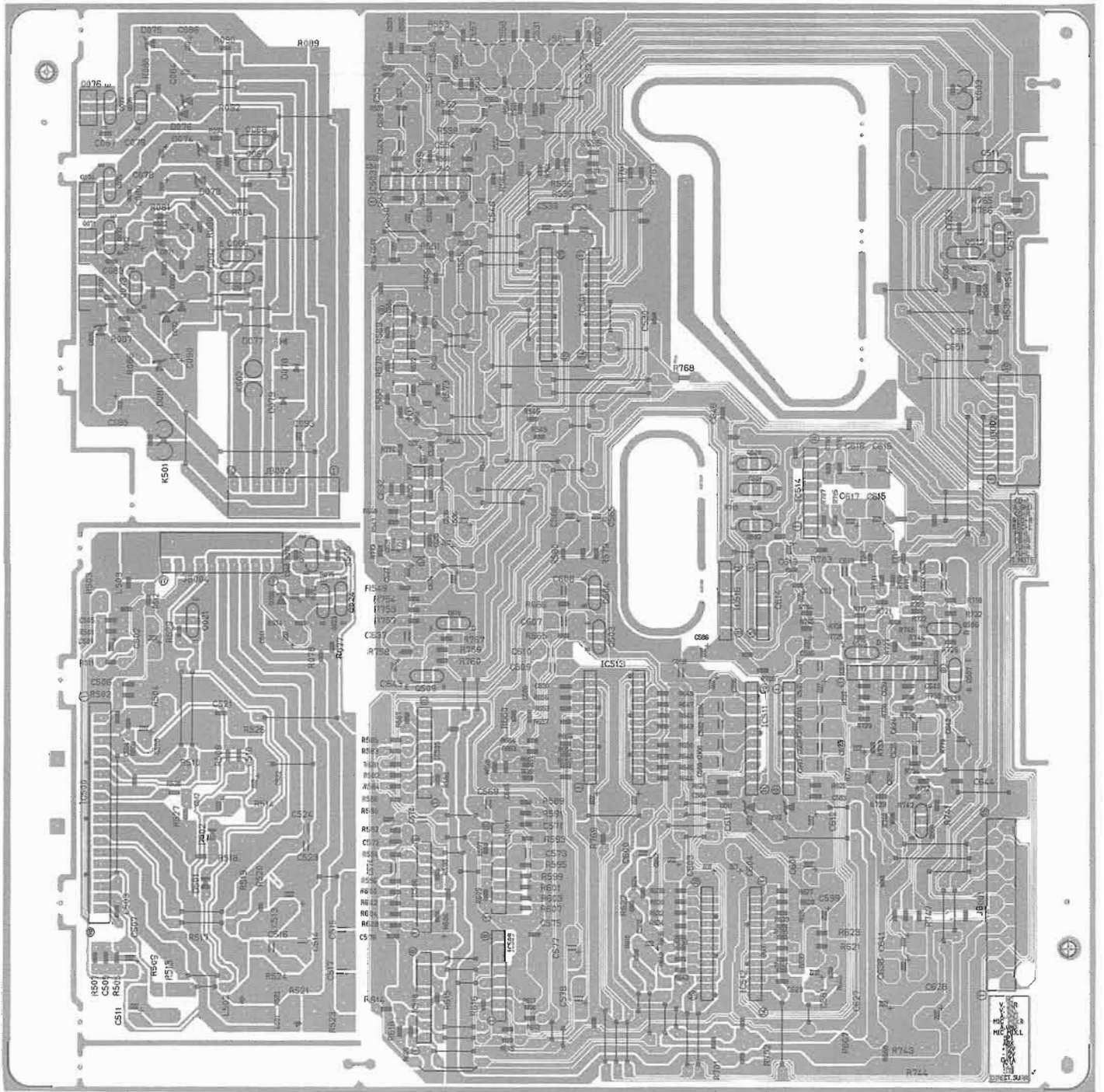
■ Main & Power Primary P.C.Board (ENH-223)



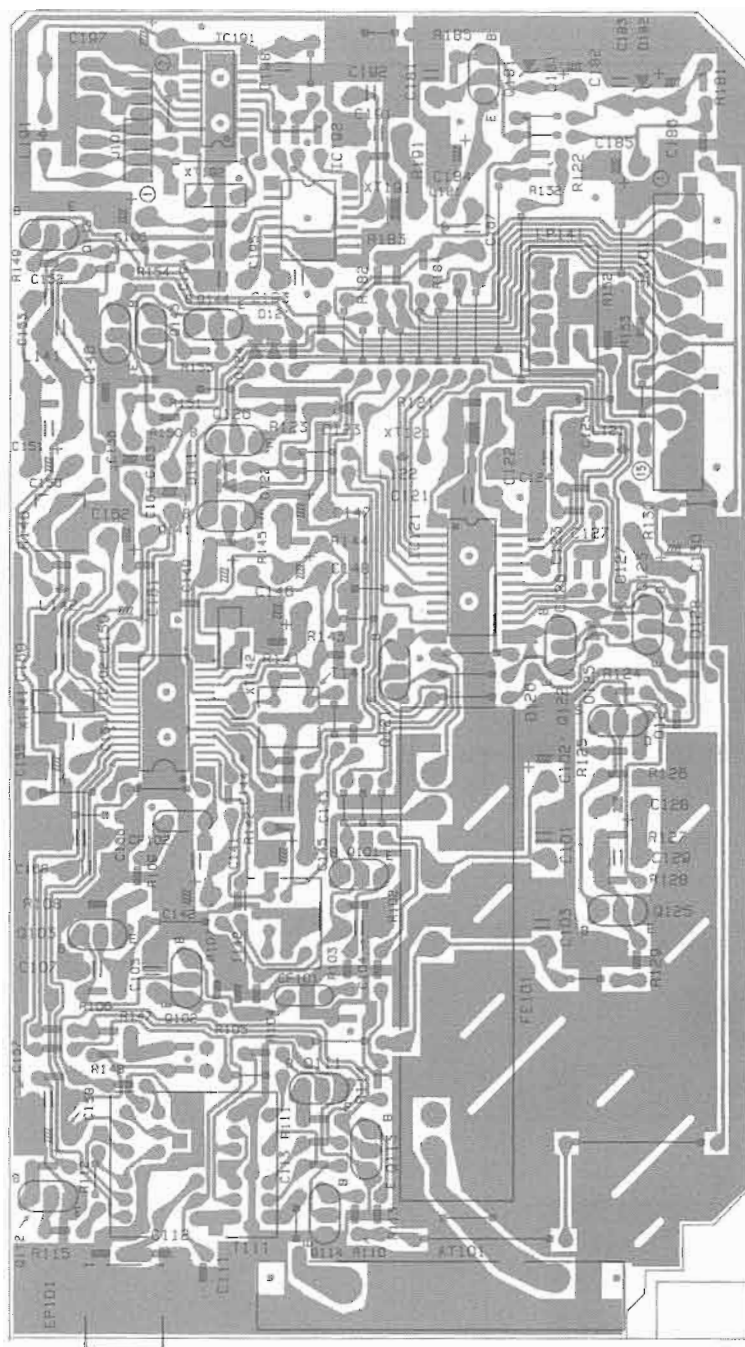
■ Display & Mic Mixing P.C.Board (ENB-189)



■ Selector, Amplifier & Regulator P.C.Board (ENC-114)



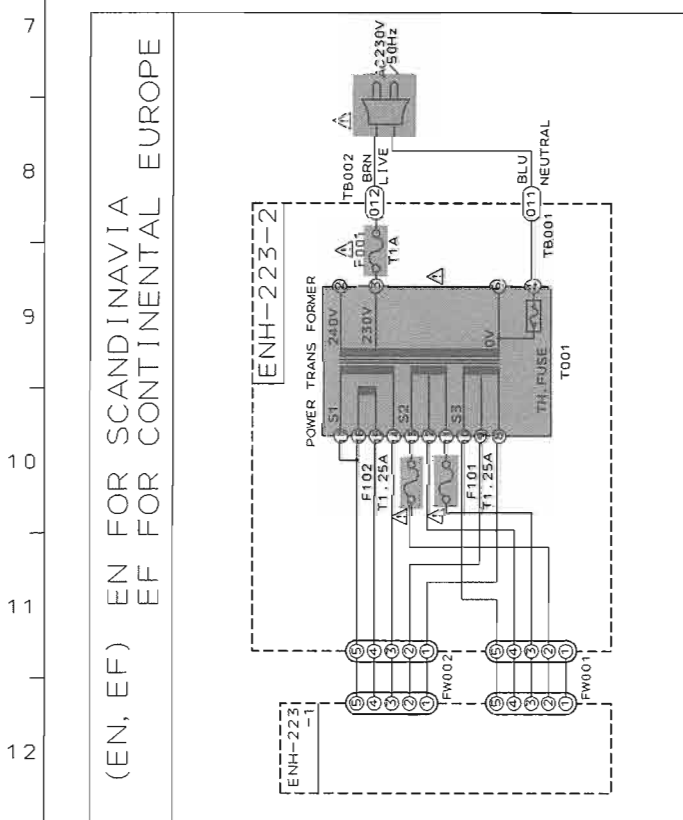
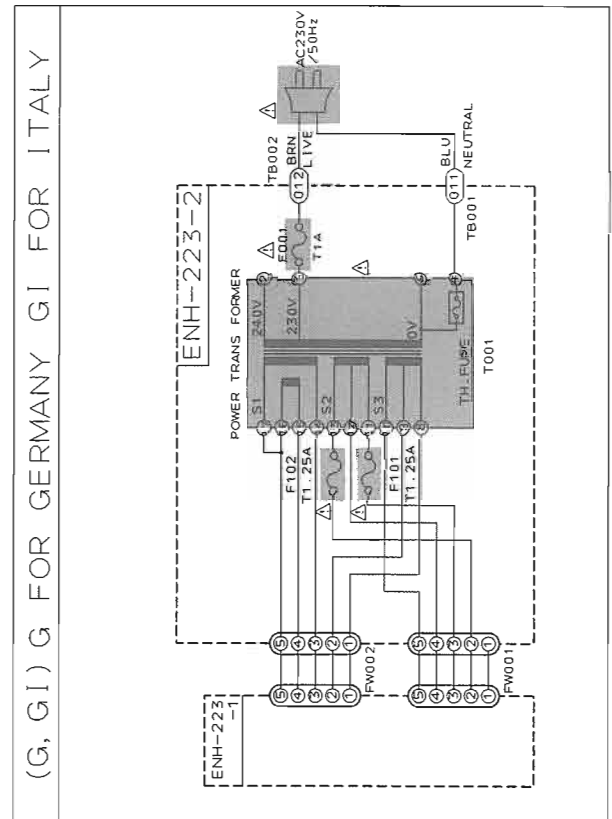
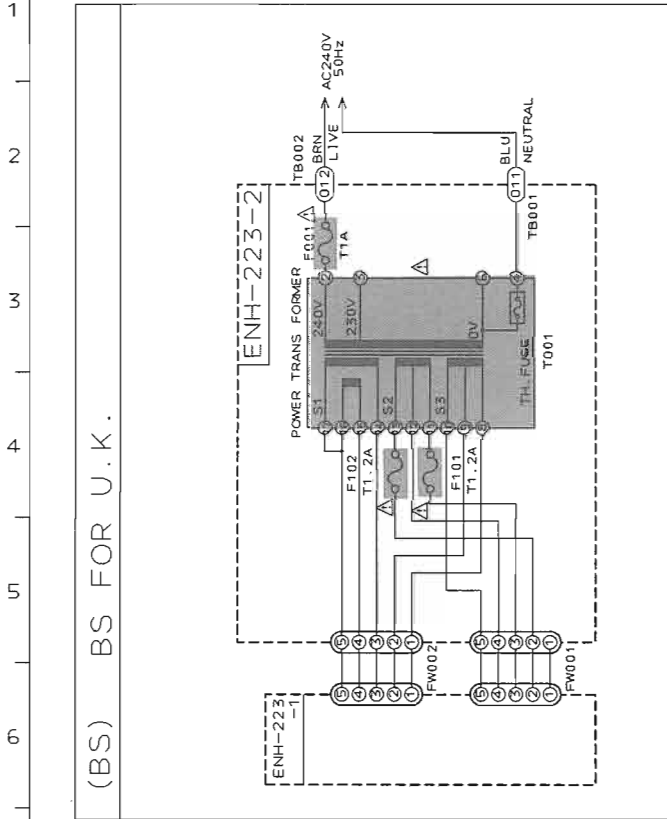
■ Tuner P.C.Board (ENA-154)



Schematic Diagrams

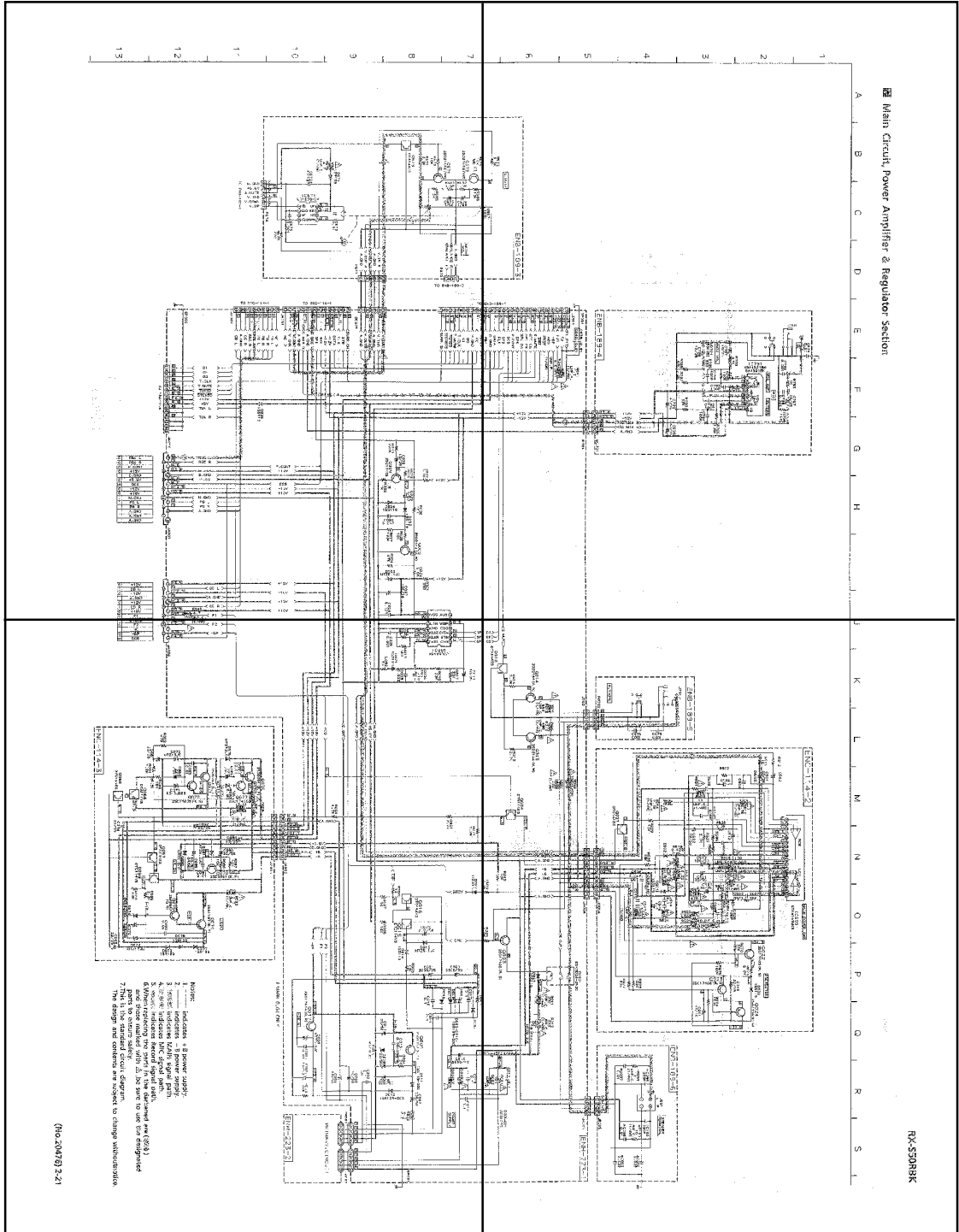
Power Primary Section

A B C D E F G H I J



P2-21-a

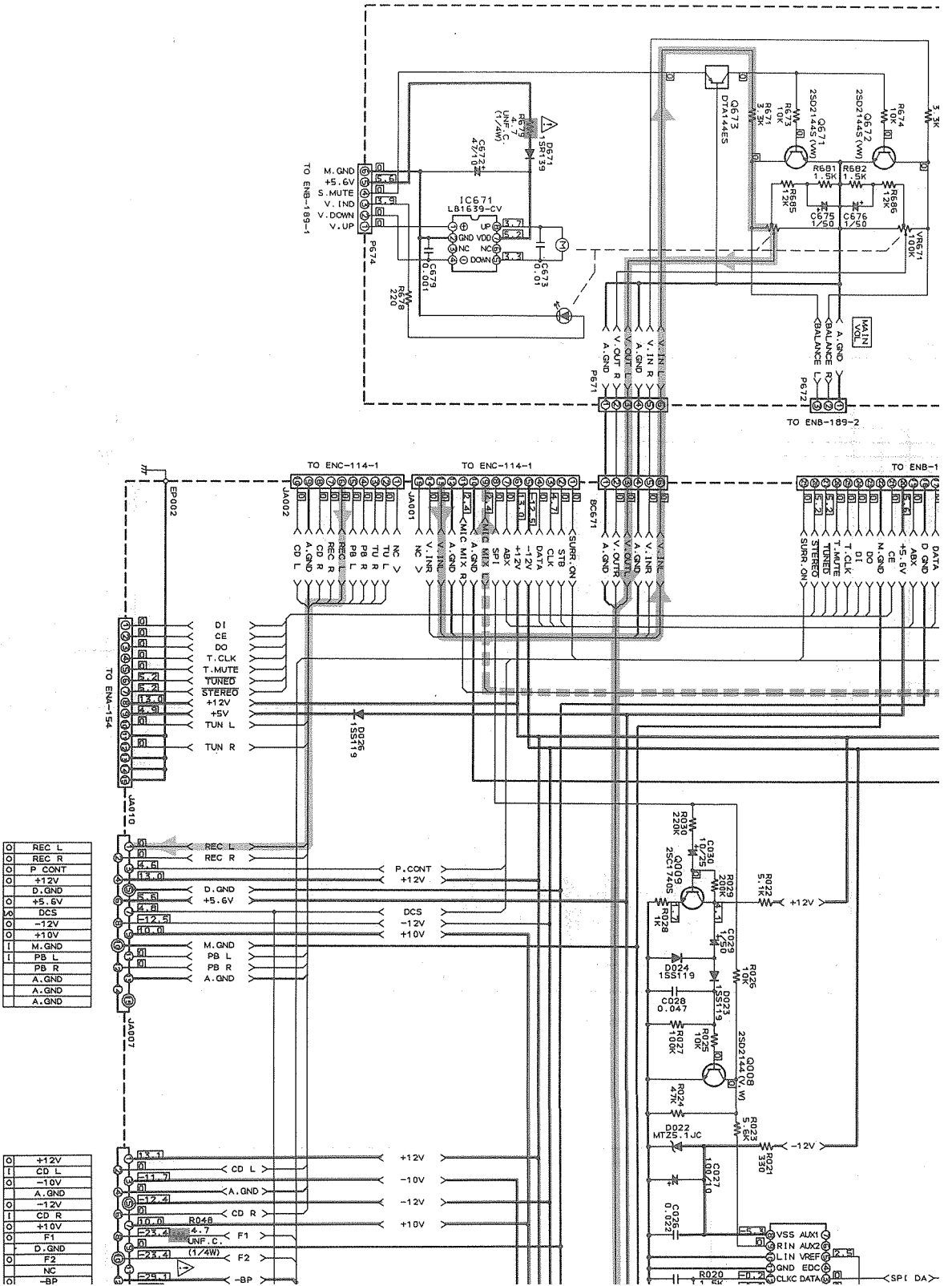
P2-21-b



P2-21-c

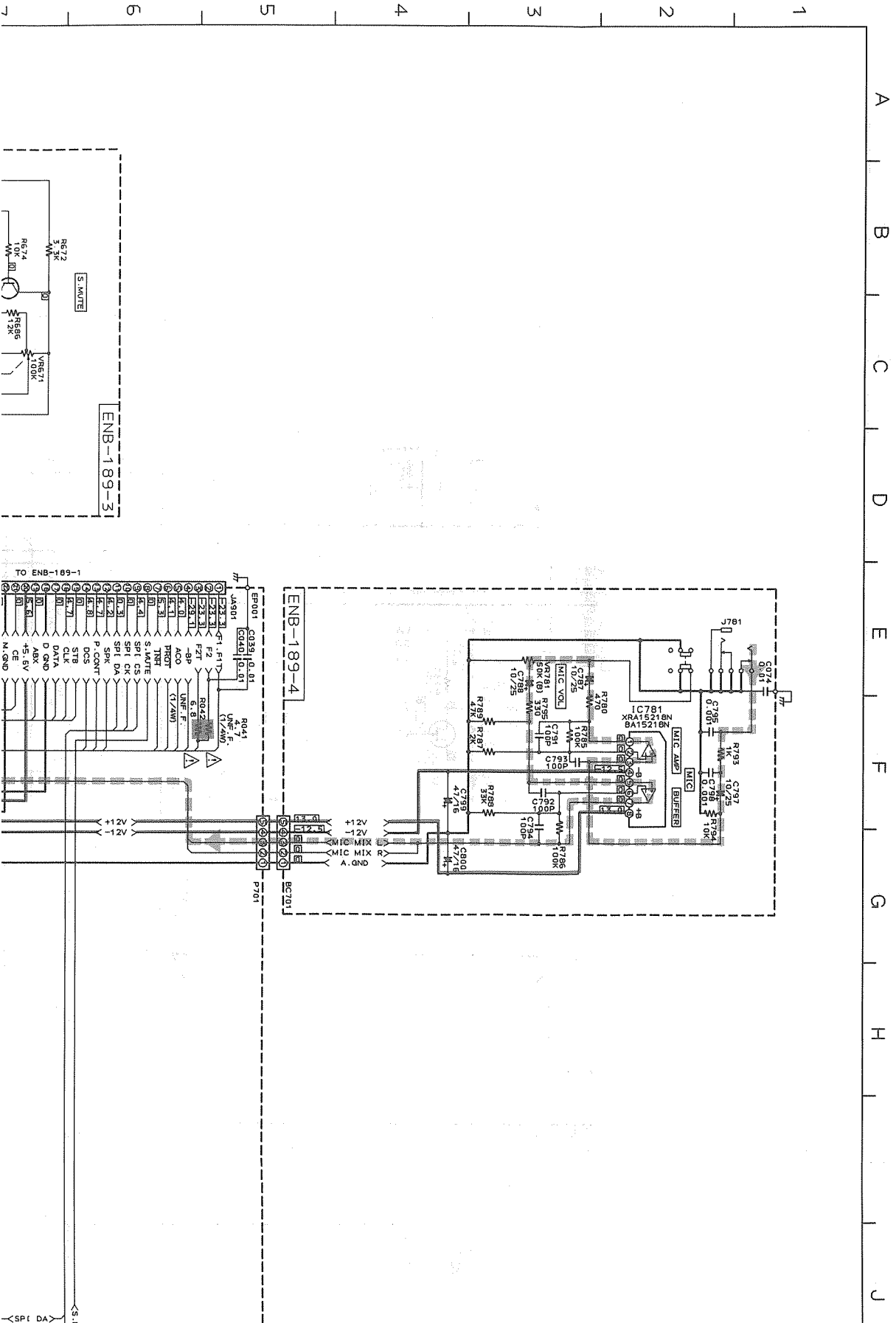
P2-21-d

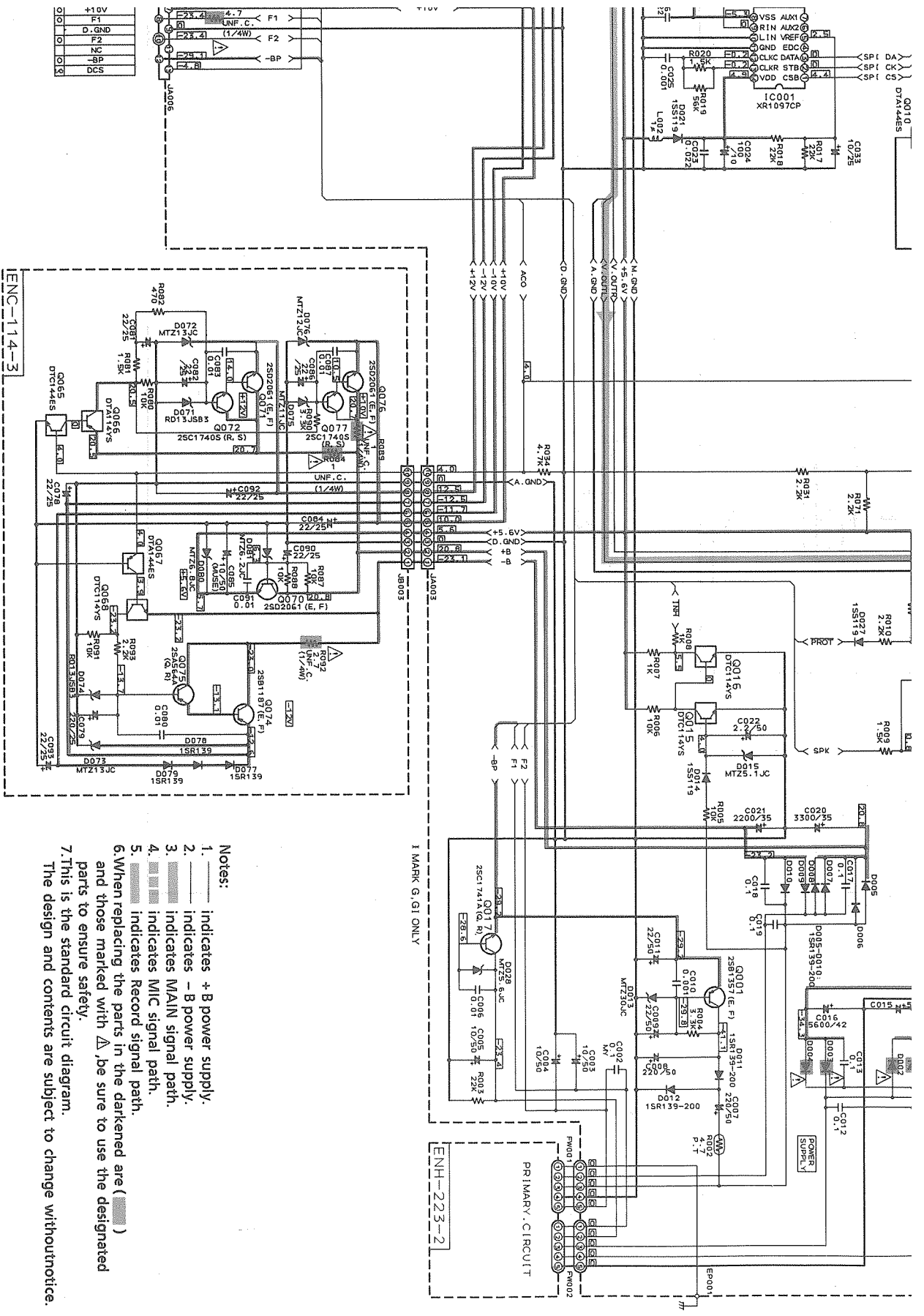
7
8
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P2-21-a

Main Circuit, Power Amplifier & Regulator Section

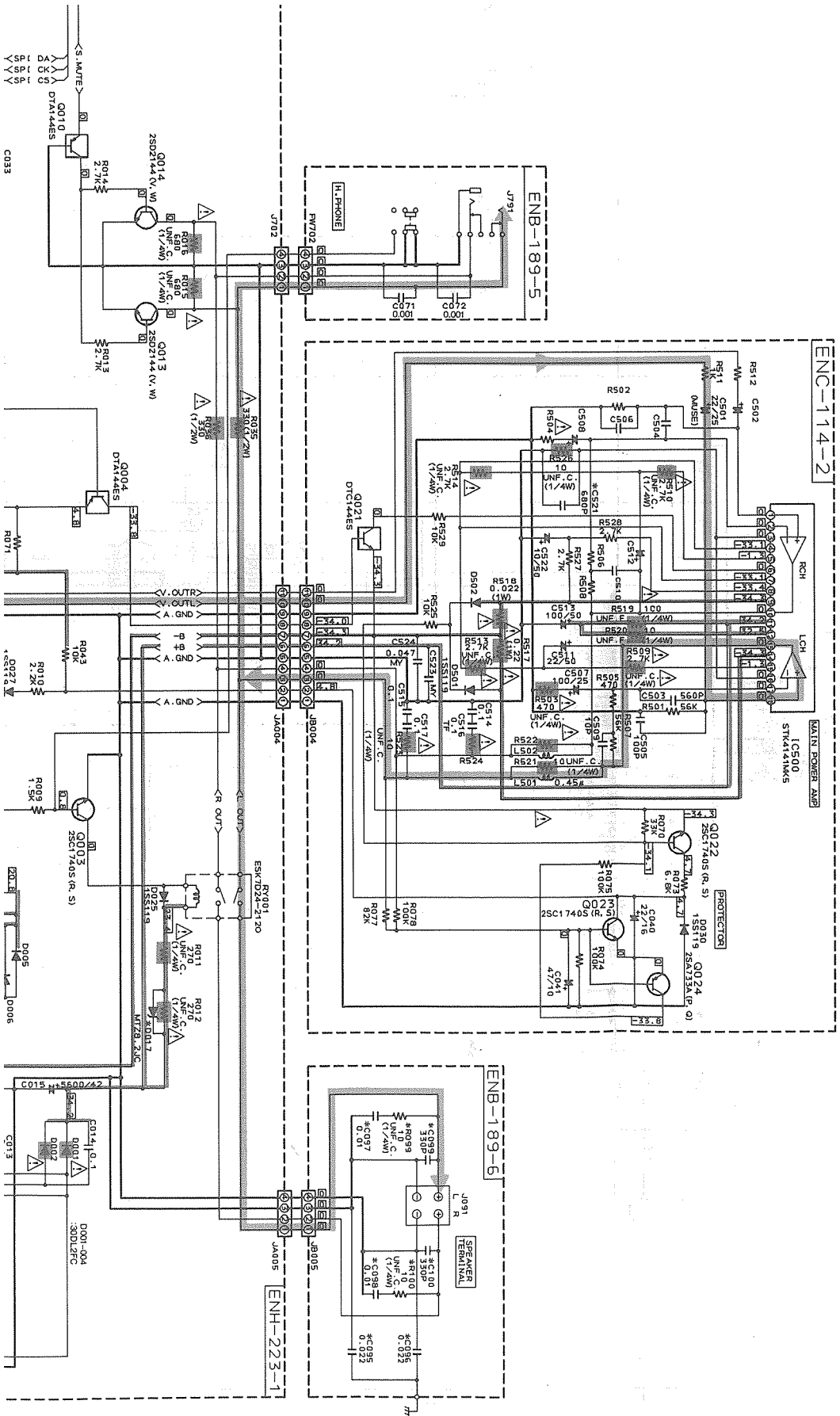




- Notes:
1. indicates + B power supply.
 2. indicates - B power supply.
 3. indicates MAIN signal path.
 4. indicates MIC signal path.
 5. indicates Record signal path.
 6. When replacing the parts in the darkened area () and those marked with , be sure to use the designated parts to ensure safety.
 7. This is the standard circuit diagram.
The design and contents are subject to change without notice.

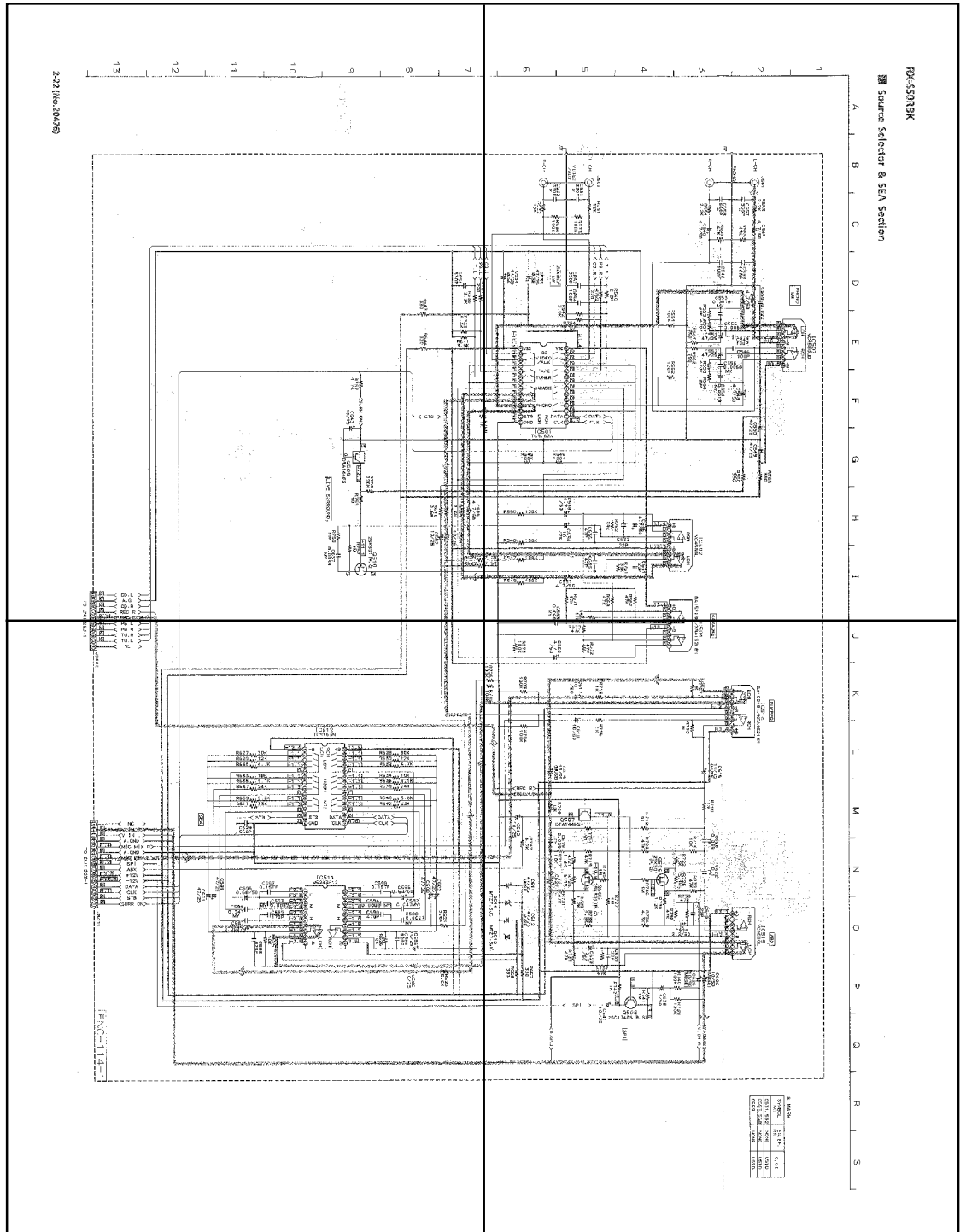
(No. 20476) 2-21

J K L M N O P Q R S

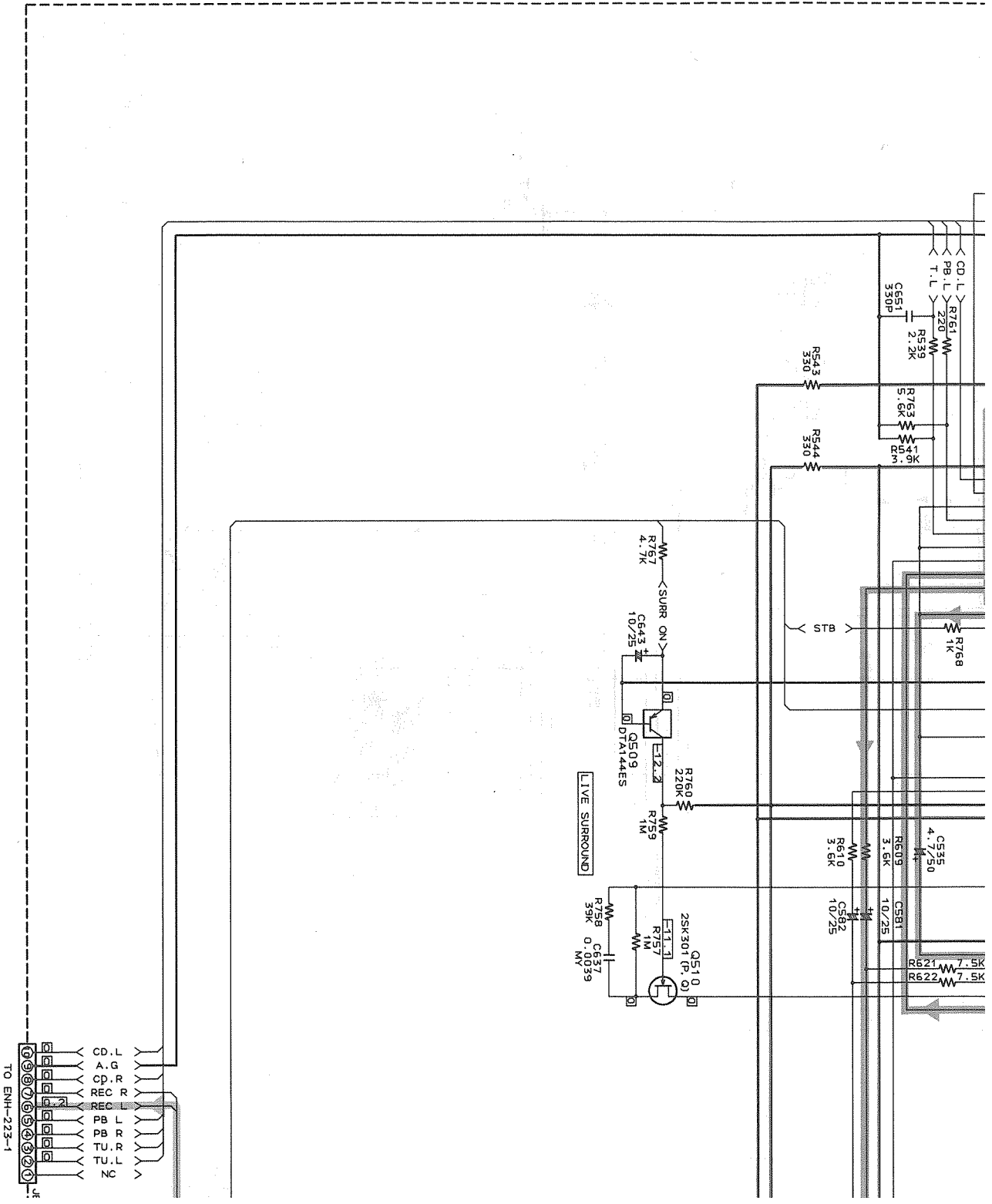


P2-22-a

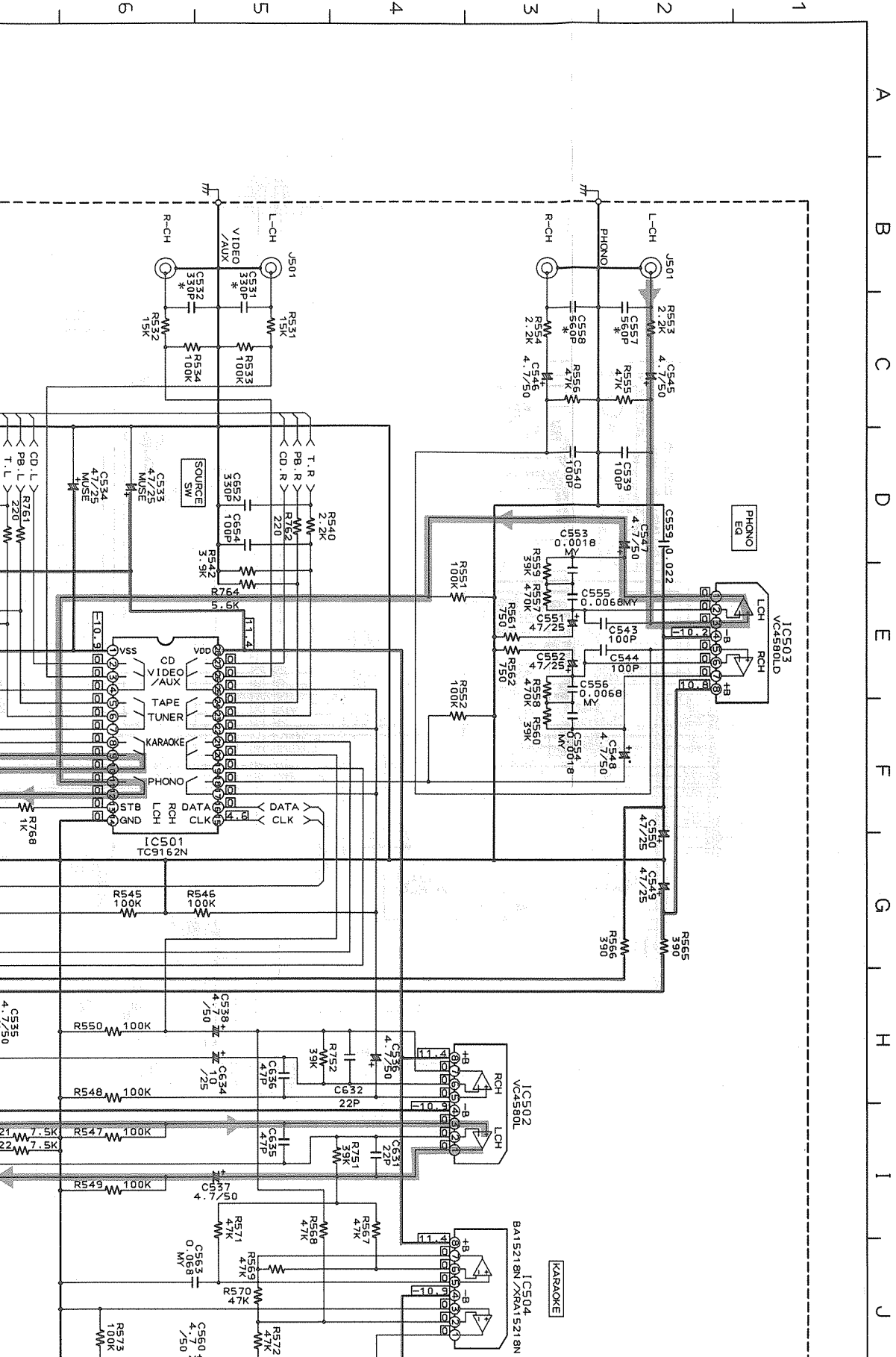
P2-22-b

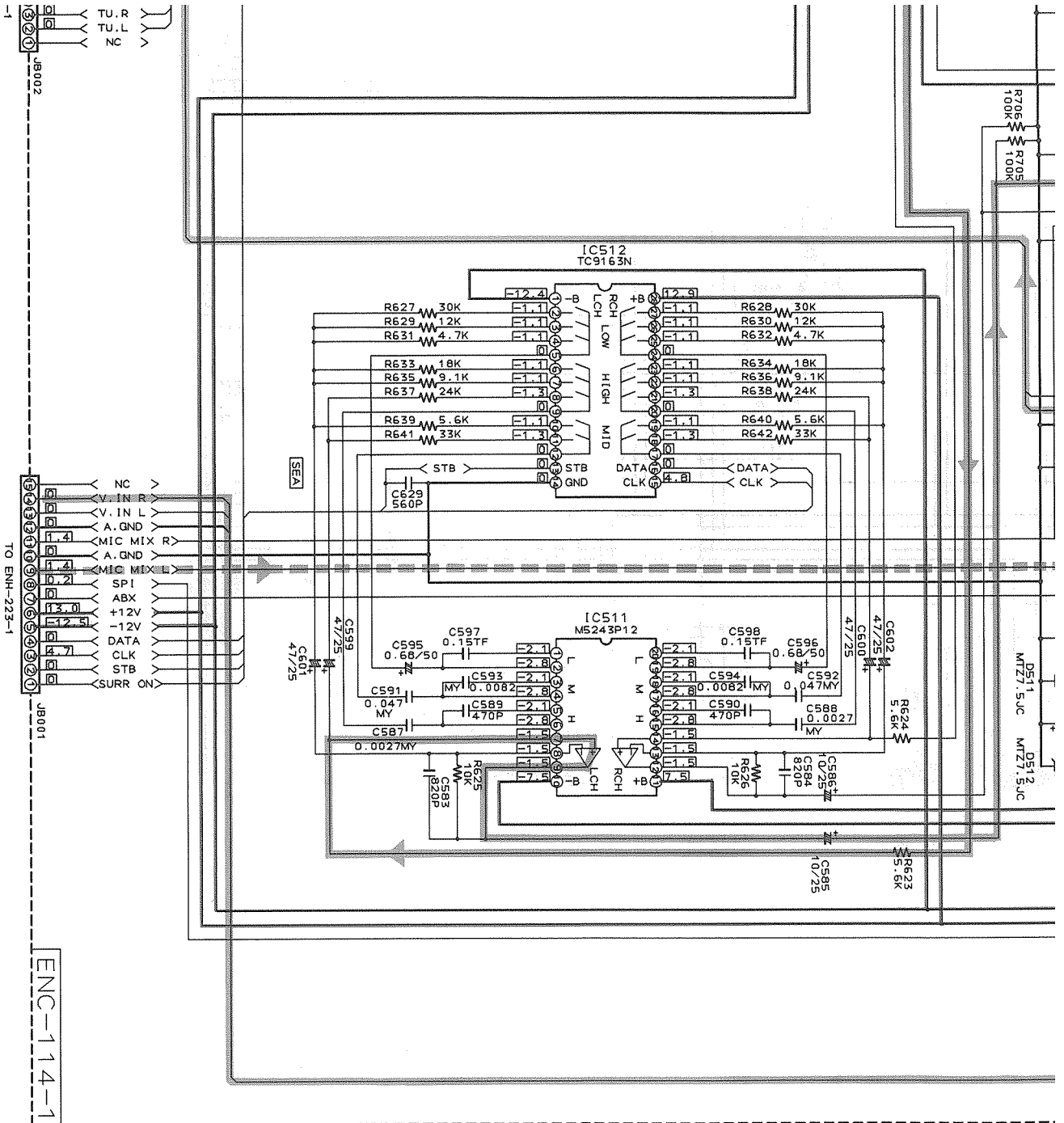


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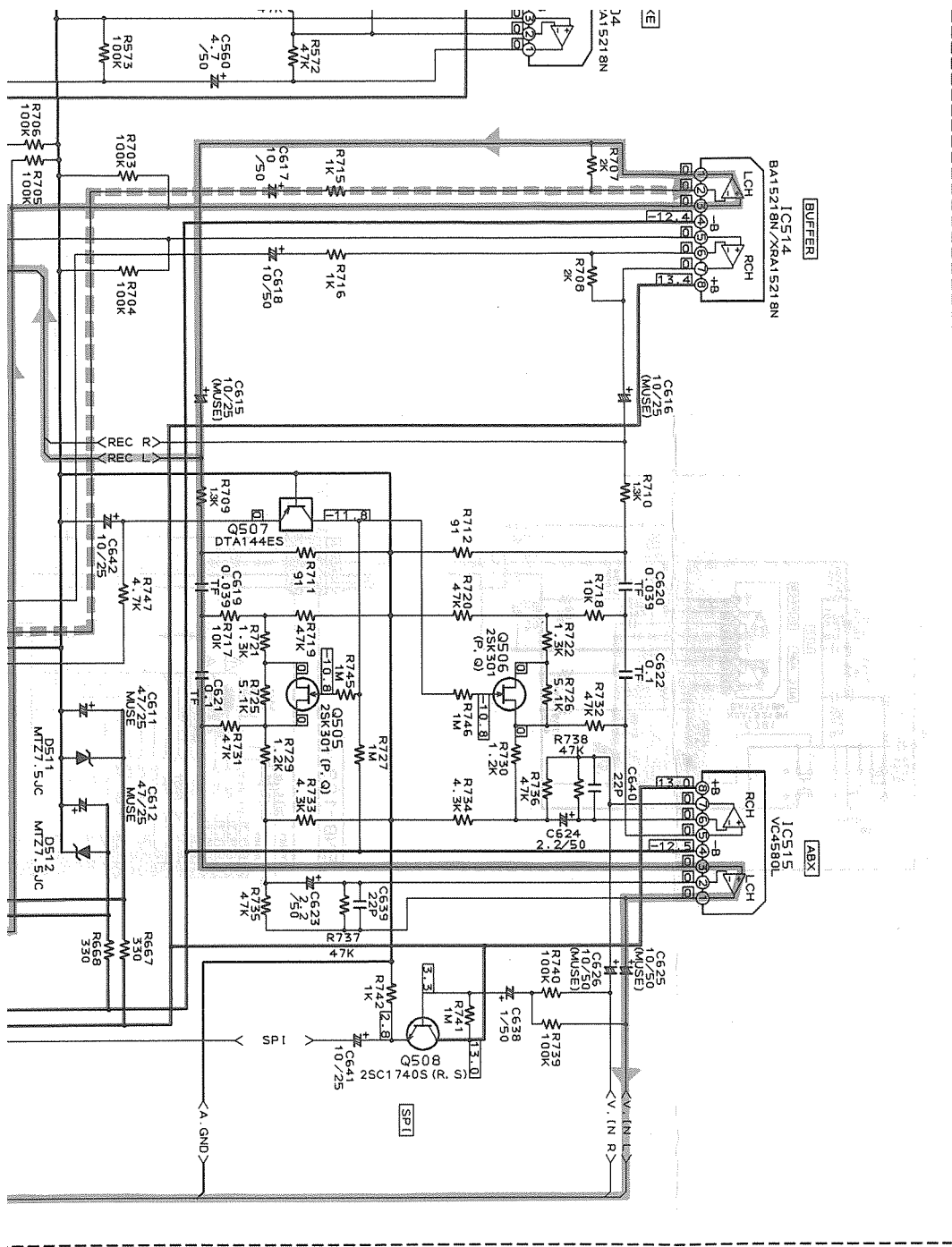


Source Selector & SEA Section





J K L M N O P Q R S

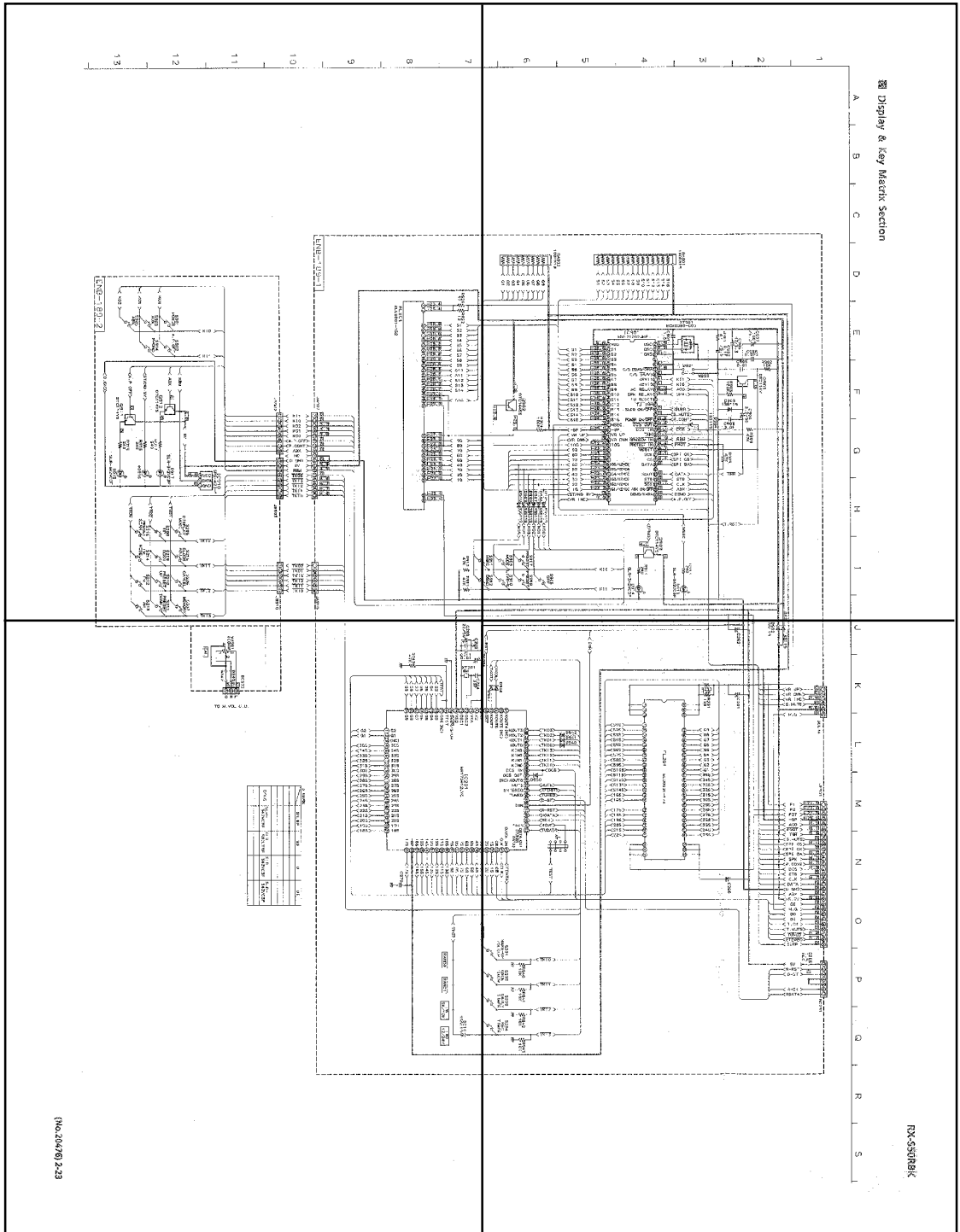


* MARK

| SYMBOL NO | EN. EF. | Q, Q1 |
|-----------|---------|-------|
| C531, 532 | NONE | USED |
| C557, 558 | NONE | USED |
| C559 | NONE | USED |

P2-23-a

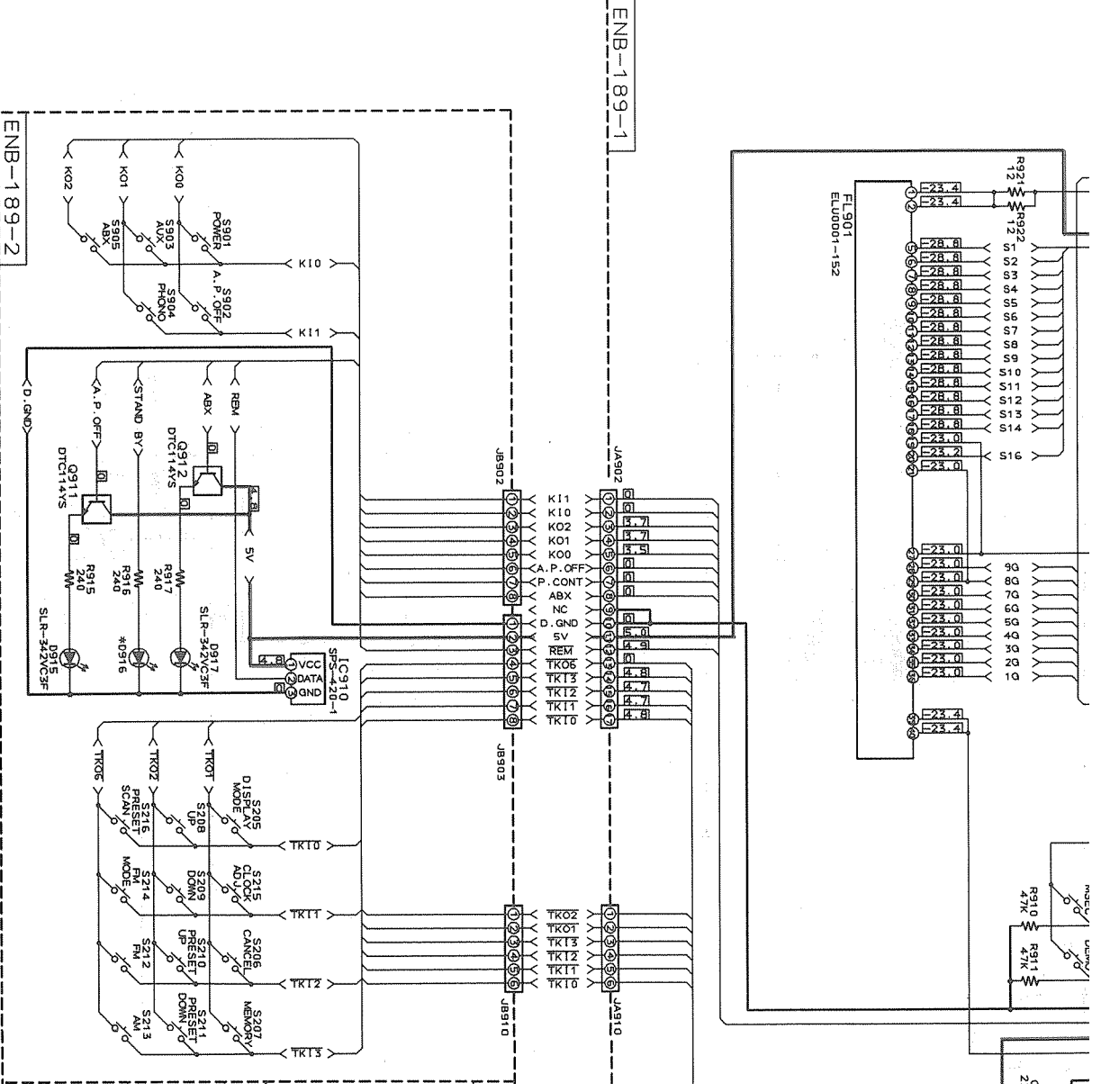
P2-23-b



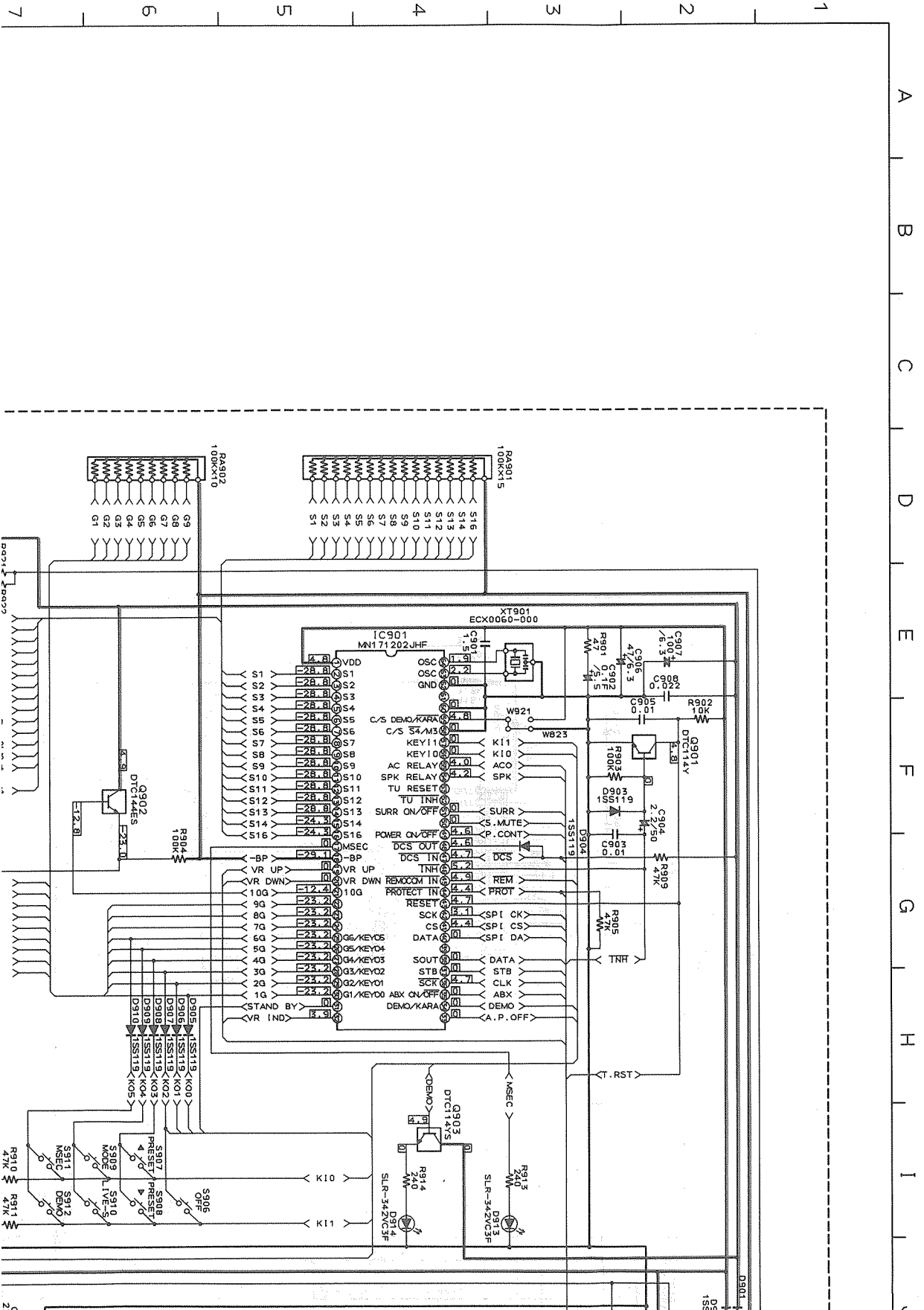
P2-23-c

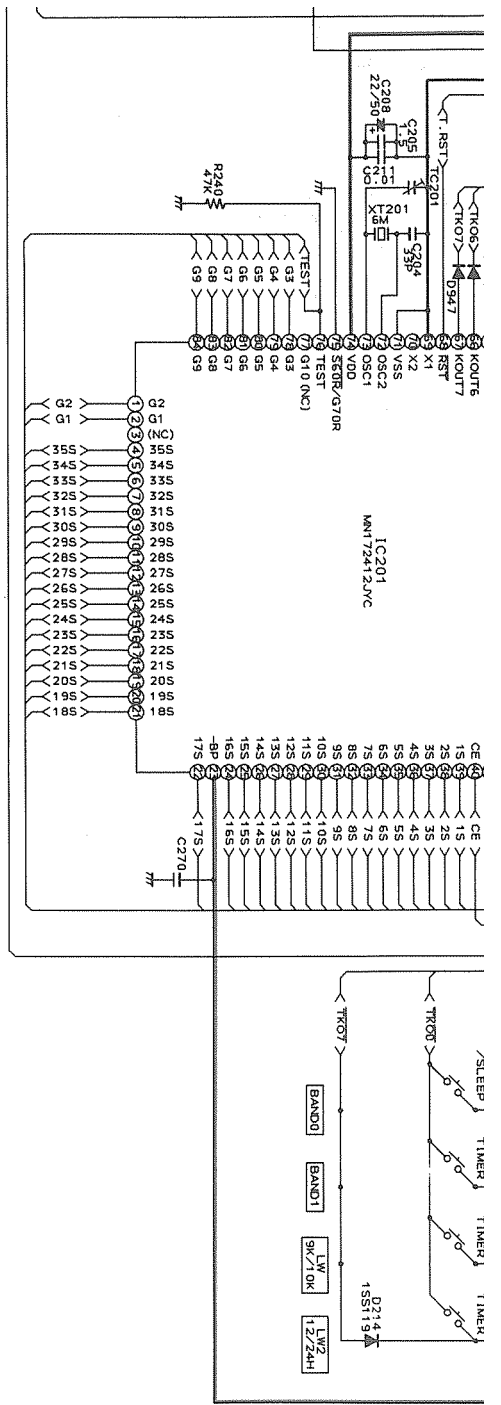
P2-23-d

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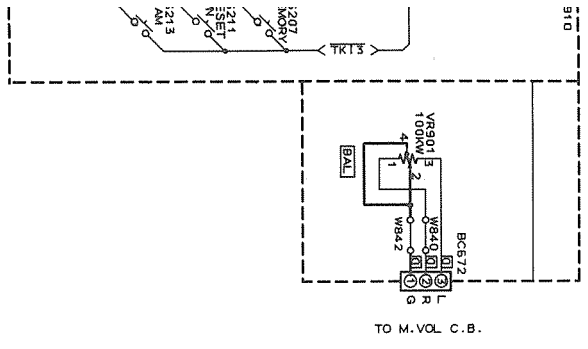


Display & Key Matrix Section





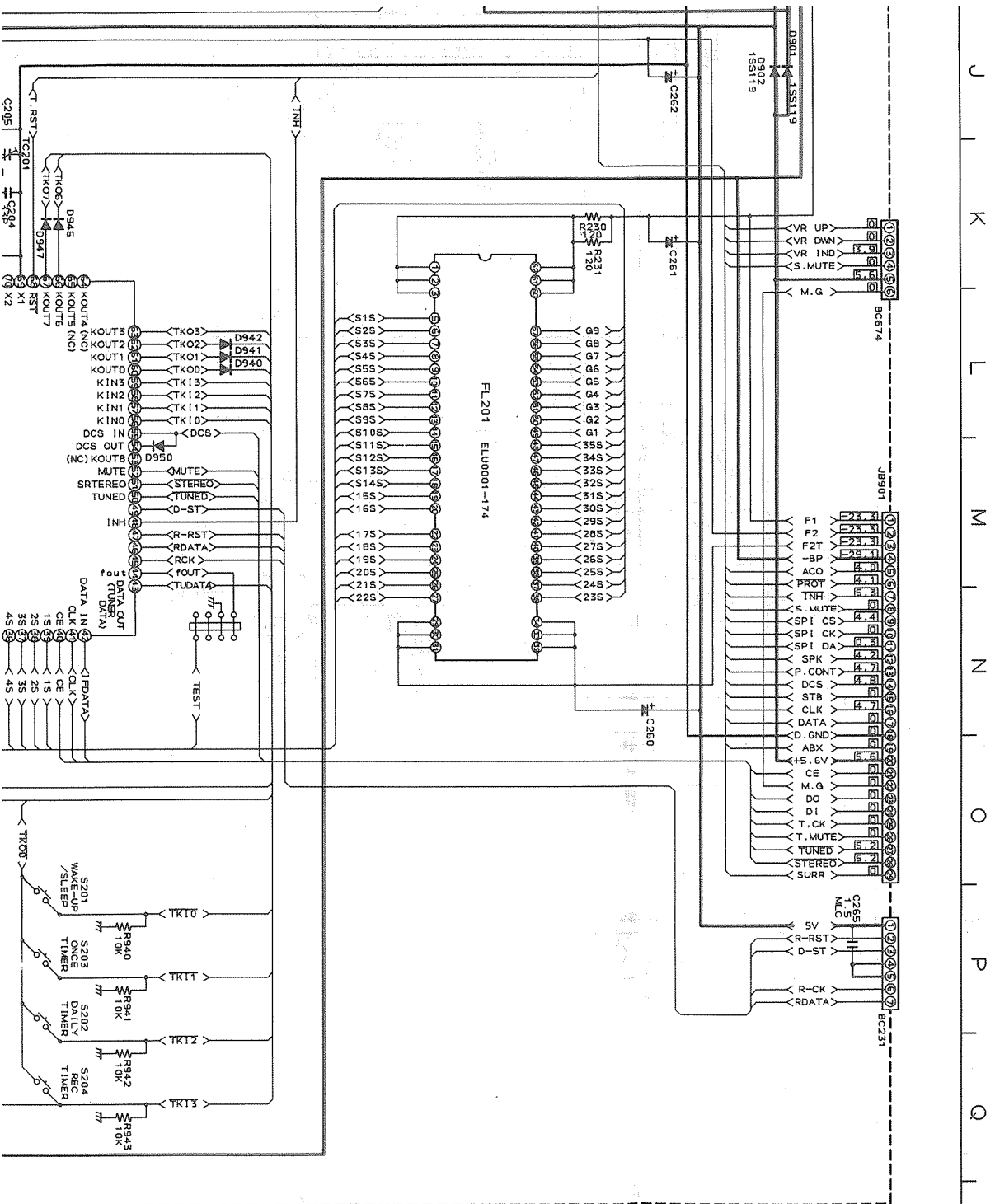
310



310

* MARK

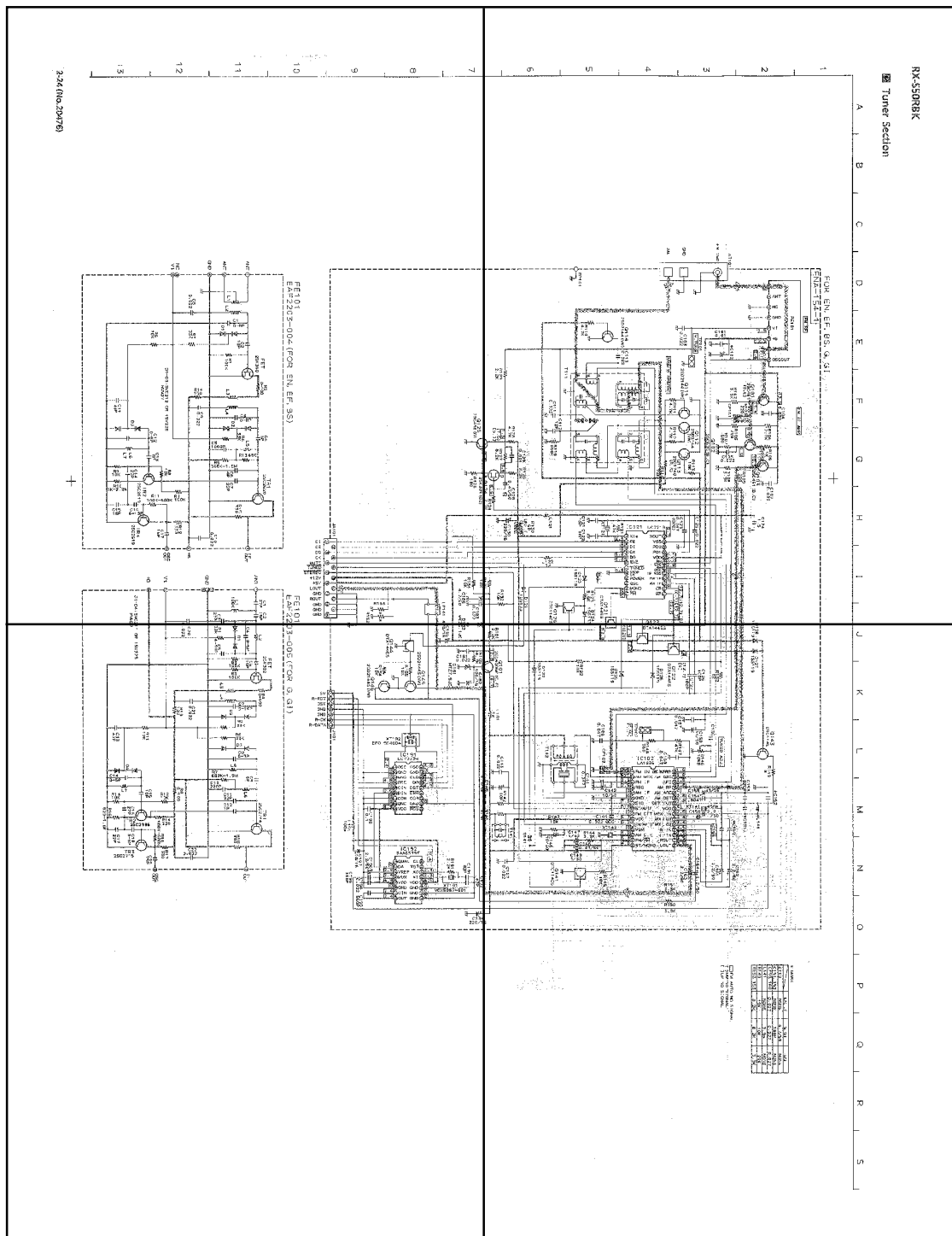
| EN. EF. | BS | Q | Q1 |
|---------|----------------|----------------|----------------|
| 0916 | SLR- 580LTF | SLR- 342VCF | SLR- 342VCF |



J
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P2-24-a

P2-24-b



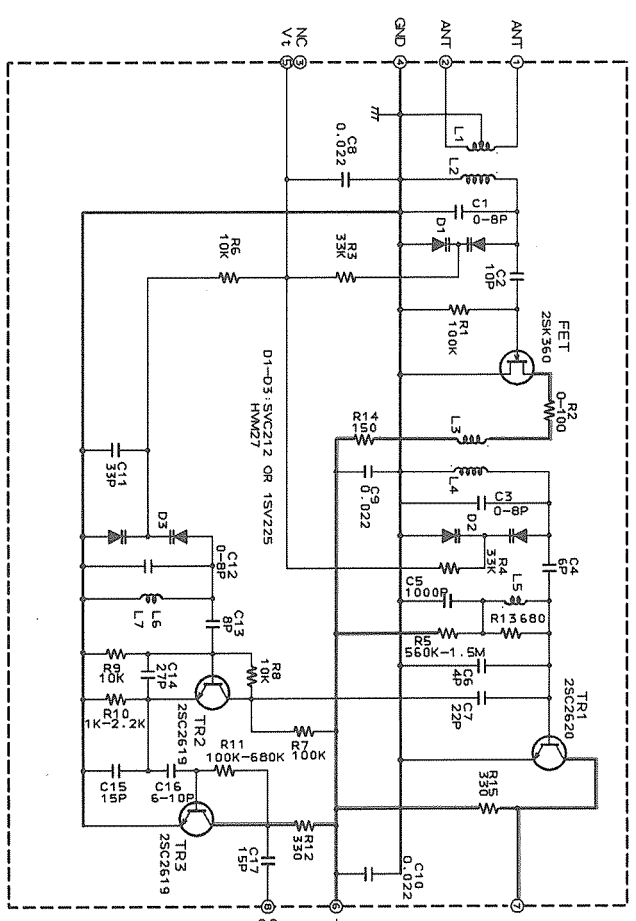
P2-24-c

P2-24-d

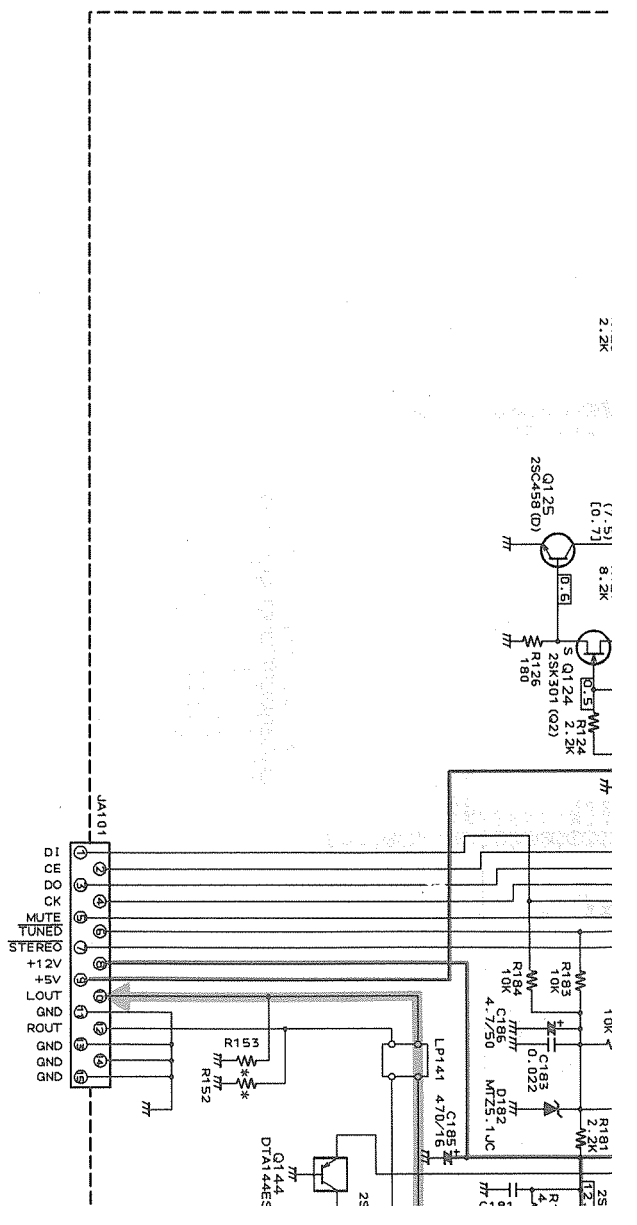
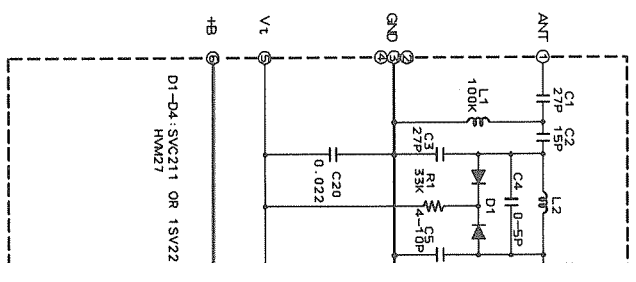
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2-24 (No.20476)

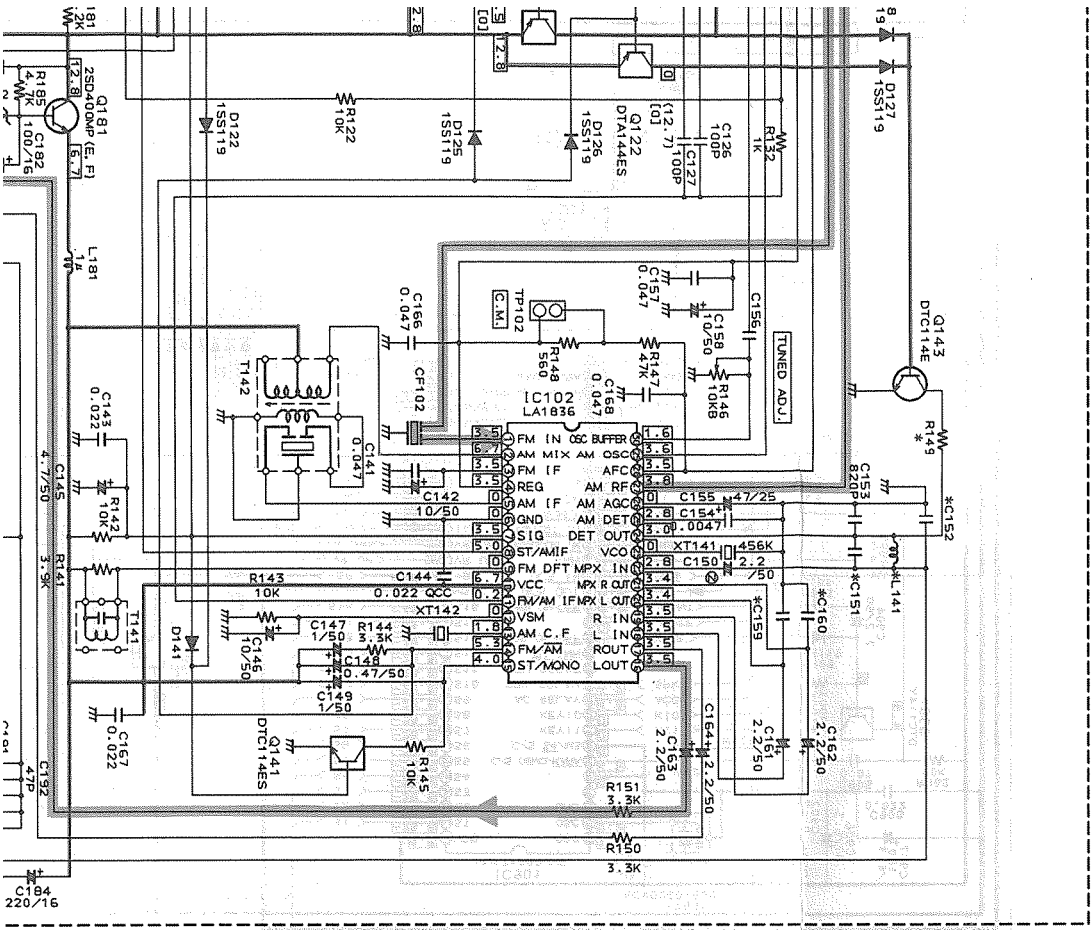
FE101
EAF2203-004 (FOR EN, EF, BS)



FE101
EAF2203-005



J K L M N O P Q R S



* MARK

| MARK | EN. EF | Q. Q1 | BS |
|-----------|--------|--------|-------|
| C102 | NONE | 4.7/50 | NONE |
| C151, 152 | NONE | 1.80P | NONE |
| C159, 160 | 0.027 | 0.027 | 0.027 |
| L141 | NONE | 3.9m | NONE |
| R149 | 10K | 10K | 22K |
| R152, 153 | 8.2K | 8.2K | 3.3K |

FM AUTO. NO. SIGNAL.
 MW. NO. SIGNAL.
 LW. NO. SIGNAL.

XT-S50RBK

– Contents –

| | |
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| Description of Major LSIs | 3-2 |
| Internal Connections of the FL Display Tube | 3-10 |
| Disassembly Procedures | 3-11 |
| Adjustment Procedures | 3-15 |
| Maintenance of Laser Pickup | 3-19 |
| Replacement of Laser Pickup | 3-19 |
| Flow of Functional Operation Until TOC is Read | 3-20 |
| Block Diagram | 3-21 |
| Printed Circuit Boards | 3-23 |
| Schematic Diagrams | 3-25 |

Description of Major LSIs

■ HD614081SD53 (IC491) : Deck System Controller

1. Terminal Layout

| | | | | |
|------------------|----|---------------------|----|-------------------|
| NR LED | 1 | HD614081SD53 | 64 | A FWD LED |
| NR LED(C) | 2 | | 63 | A REW LED |
| A.SPEED UP | 3 | | 62 | B FWD LED |
| B.SPEED UP | 4 | | 61 | B REV LED |
| MUSIC IN | 5 | | 60 | REC LED |
| B FWD REEL MOTOR | 6 | | 59 | REV. MODE |
| B REV REEL MOTOR | 7 | | 58 | BIAS |
| B REV CAM MOTOR | 8 | | 57 | NR OFF |
| B FWD CAM MOTOR | 9 | | 56 | REC MUTE |
| A CAM SW 2 | 10 | | 55 | DCS IN |
| A CAM SW 1 | 11 | | 54 | DCS OUT |
| A CAM SW 0 | 12 | | 53 | GND |
| A PULSE IN | 13 | | 52 | 4.19MHz OSC IN |
| B CAM SW 2 | 14 | | 51 | 4.19MHz OSC IN |
| B CAM SW 1 | 15 | | 50 | To VCC |
| B CAM SW 0 | 16 | | 49 | RESET IN |
| B PULSE IN | 17 | | 48 | KEY&SW IN4 |
| POWER OFF IN | 18 | | 47 | KEY&SW IN3 |
| GND | 19 | | 46 | KEY&SW IN2 |
| A FWD REEL MOTOR | 20 | | 45 | KEY&SW IN1 |
| A REV REEL MOTOR | 21 | | 44 | KEY OUT 4 |
| A REV CAM MOTOR | 22 | | 43 | KEY OUT 3 |
| A FWD CAM MOTOR | 23 | | 42 | KEY OUT 2 |
| NR REC | 24 | | 41 | KEY OUT 1 |
| A MUTE | 25 | | 40 | SW OUT 2 |
| B MUTE | 26 | | 39 | SW OUT 1 |
| PLAY MUTE | 27 | | 38 | HI-SPEED DUB BING |
| CAP MOTOR ON | 28 | | 37 | H.S CrO2 |
| REC | 29 | | 36 | H.S METAL |
| FADE CTRL | 30 | | 35 | H.S NORM |
| BEQ | 31 | | 34 | CrO2 |
| +5V | 32 | | 33 | METAL |

2. Table of key matrix

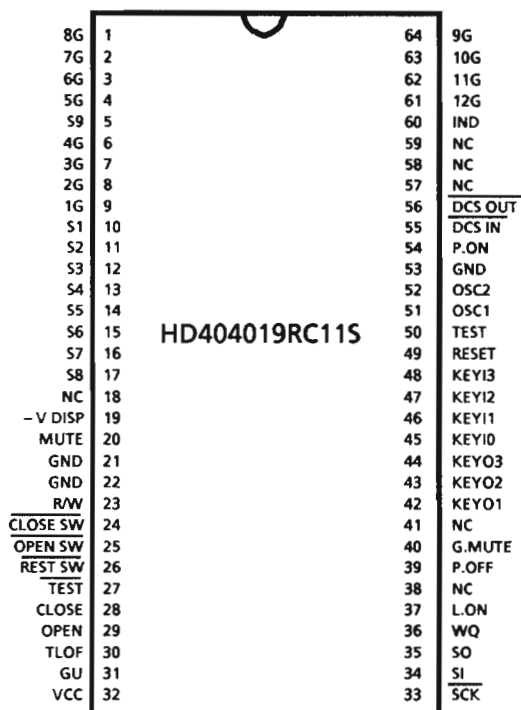
| | KEY IN 1 | KEY IN 2 | KEY IN 3 | KEY IN 4 |
|-----------|----------|----------|-------------|----------|
| KEY OUT 1 | ◀ | ◀◀ | ▶▶ | ▶ |
| KEY OUT 2 | ◀ | ◀◀ | ▶▶ | ▶ |
| KEY OUT 3 | ■ | ■ | B REC PAUSE | |
| KEY OUT 4 | A ▶ B | DOLBY | REV. MODE | CD. REC |

3. Pin Functions

| Pin No. | Symbol | I/O | Function | Pin No. | Symbol | I/O | Function |
|---------|------------------|-----|---|---------|-------------------|-----|---|
| 1 | NR LED | O | DOLBY B Indicator signal output | 33 | METAL | O | METAL Recording Equalizer control |
| 2 | NR LED (C) | O | DOLBY C Indicator signal output | 34 | CrO2 | O | CrO2 Recording Equalizer control |
| 3 | A SPEED UP | O | A deck Reel motor speed control output | 35 | H.S NORM | O | High speed Normal Recording Equalizer control |
| 4 | B SPEED UP | O | B deck Reel motor speed control output | 36 | H.S METAL | O | High speed METAL Recording Equalizer control |
| 5 | MUSIC IN | I | Music scan signal input | 37 | H.S CrO2 | O | High speed CrO2 Recording Equalizer control |
| 6 | B FWD REEL MOTOR | O | FWD direction control for B reel motor | 38 | HI SPEED DUB BING | O | Recording Equalizer control |
| 7 | B REV REEL MOTOR | O | REV direction control for B reel motor | 39 | SW OUT 1 | O | Leaf switch output |
| 8 | B REV CAM MOTOR | O | REV direction control for B cam motor | 40 | SW OUT 2 | O | Leaf switch output |
| 9 | B FWD CAM MOTOR | O | FWD direction control for B cam motor | 41 | KEY OUT 1 | O | Key matrix output |
| 10 | A CAM SW 2 | I | A CAM SW Input | 42 | KEY OUT 2 | O | Key matrix output |
| 11 | A CAM SW 1 | I | A CAM SW input | 43 | KEY OUT 3 | O | Key matrix output |
| 12 | A CAM SW 0 | I | A CAM SW input | 44 | KEY OUT 4 | O | Key matrix output |
| 13 | A PULSE IN | I | A deck reel pulse input | 45 | KEY&SW IN 1 | I | Key matrix and Leaf switch input |
| 14 | B CAM SW 2 | I | B CAM SW input | 46 | KEY&SW IN 2 | I | Key matrix and Leaf switch input |
| 15 | B CAM SW 1 | I | B CAM SW input | 47 | KEY&SW IN 3 | I | Key matrix and Leaf switch input |
| 16 | B CAM SW 0 | I | B CAM SW input | 48 | KEY&SW IN 4 | I | Key matrix and Leaf switch input |
| 17 | B PULSE IN | I | B deck reel pulse input | 49 | RESET IN | I | Reset signal Input |
| 18 | POWER OFF IN | I | Power ON / OFF signal input | 50 | TO VCC | - | Connect to VCC |
| 19 | GND | - | Ground | 51 | OSC IN | I | Clock oscillator input |
| 20 | A FWD REEL MOTOR | O | FWD direction control for A reel motor | 52 | OSC IN | I | Clock oscillator input |
| 21 | A REV REEL MOTOR | O | REV direction control for A reel motor | 53 | GND | - | Ground |
| 22 | A REV CAM MOTOR | O | REV direction control for A cam motor | 54 | DCS OUT | O | DCS signal output |
| 23 | A FWD CAM MOTOR | O | FWD direction control for A cam motor | 55 | DCS IN | I | DCS signal input |
| 24 | NR REC | O | NR Rec control signal output to IC351 | 56 | REC MUTE | O | Recording mute control signal output |
| 25 | A MUTE | O | A Deck play back mute signal output | 57 | NR OFF | O | NR ON/OFF control signal output to IC351 |
| 26 | B MUTE | O | B Deck play back mute signal output | 58 | BIAS | O | BIAS control signal output |
| 27 | PLAY MUTE | O | Play back mute signal output | 59 | REV MODE | O | REV Mode Indicator signal output |
| 28 | CAPSTAN ON | O | Capstan motor ON/OFF control | 60 | REC LED | O | Recording Indicator signal output |
| 29 | REC | O | PB / REC control signal output to IC331 | 61 | B REV LED | O | B REV Indicator signal output |
| 30 | FADE CTRL | O | Fade control signal output | 62 | B FWD LED | O | B FWD Indicator signal output |
| 31 | BEQ | O | Equalizer switching signal | 63 | A REW LED | O | A REW Indicator signal output |
| 32 | +5V | - | Power supply | 64 | A FWD LED | O | A FWD Indicator signal output |

■ HD404019RC11S (IC951) : CD System Controller

1. Terminal Layout



2. Key matrix

| | KEY IN 0 | KEY IN 1 | KEY IN2 | KEY IN3 |
|-----------|----------|----------|---------|---------|
| KEY OUT 1 | — | PROGRAM | — | ▶/ |
| KEY OUT 2 | ⏮ | REPEAT | RANDOM | ▲ |
| KEY OUT 3 | ■/CLEAR | SIDE A/B | EDIT | ⏭ |

3. Pin Functions

| Pin No. | Symbol | I/O | Functions and Operations | Pin No. | Symbol | I/O | Functions and Operations |
|---------|----------|-----|--|-------------|------------------------|-----|-------------------------------------|
| 1~4 | 8G~5G | O | FL grid control output | 34 | (D IN) SI | I | Serial data input from IC841 |
| 5 | S9 | O | FL segment control output | 35 | (D OUT) SO | O | Serial data output for IC841 |
| 6~9 | 4G~1G | O | FL grid control output | 36 | WQ | I | Write request signal input |
| 10~17 | S1~S8 | O | FL segment control output | 37 | L.ON | O | Laser on signal output |
| 18 | NC | -- | Non connection | 38,40 41 | NC | -- | Not used |
| 19 | -VDISP | I | FL Power supply | 39 | P.OFF | O | LSI power off signal output |
| 20~22 | NC | -- | Not used | 42~44 | KEY OUT0 ~ KEY OUT3 | O | Key matrix output |
| 23 | R/W | O | Read / Write signal output | 45~48 | KEY IN0 ~ KEY IN3 | I | Key matrix input |
| 24 | CLOSE SW | I | Close switch : active low | 49 | RESET | I | Reset signal input |
| 25 | OPEN SW | I | Open switch : active low | 50 | TEST | I | Test mode input : connected to + 5V |
| 26 | RESET SW | I | Reset switch : active low at the Inmost position of pickup | 51 | OSC 1 | I | Clock Oscillation input |
| 27 | TEST | I | Test mode input | 52 | OSC 2 | O | Clock Oscillation output |
| 28 | CLOSE | O | Close signal output | 53 | GND | -- | Ground |
| 29 | OPEN | O | Open signal output | 54 | P.ON | I | Power on signal input |
| 30 | TLOF | O | Tracking servo off signal output | 55 | DCS IN | I | Compu-link signal input |
| 31 | GU | O | Tracking gain up signal output | 56 | DCS OUT | O | Compu-link signal output |
| 32 | VCC | -- | + 5V | 57~59 | NC | -- | Non connection |
| 33 | SCK | O | Clock output for IC841 | 60 | IND | O | Auto power off indicator signal |
| | | | | 61~64 | 11G~9G | O | FL grid control output |

XT-S50RBK

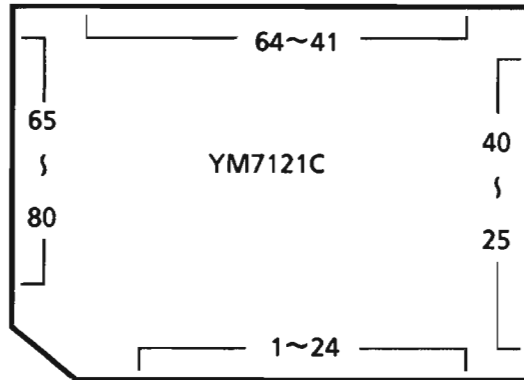
■ YM7121C (IC841) : Signal Processing and Servo Control

1. Outline

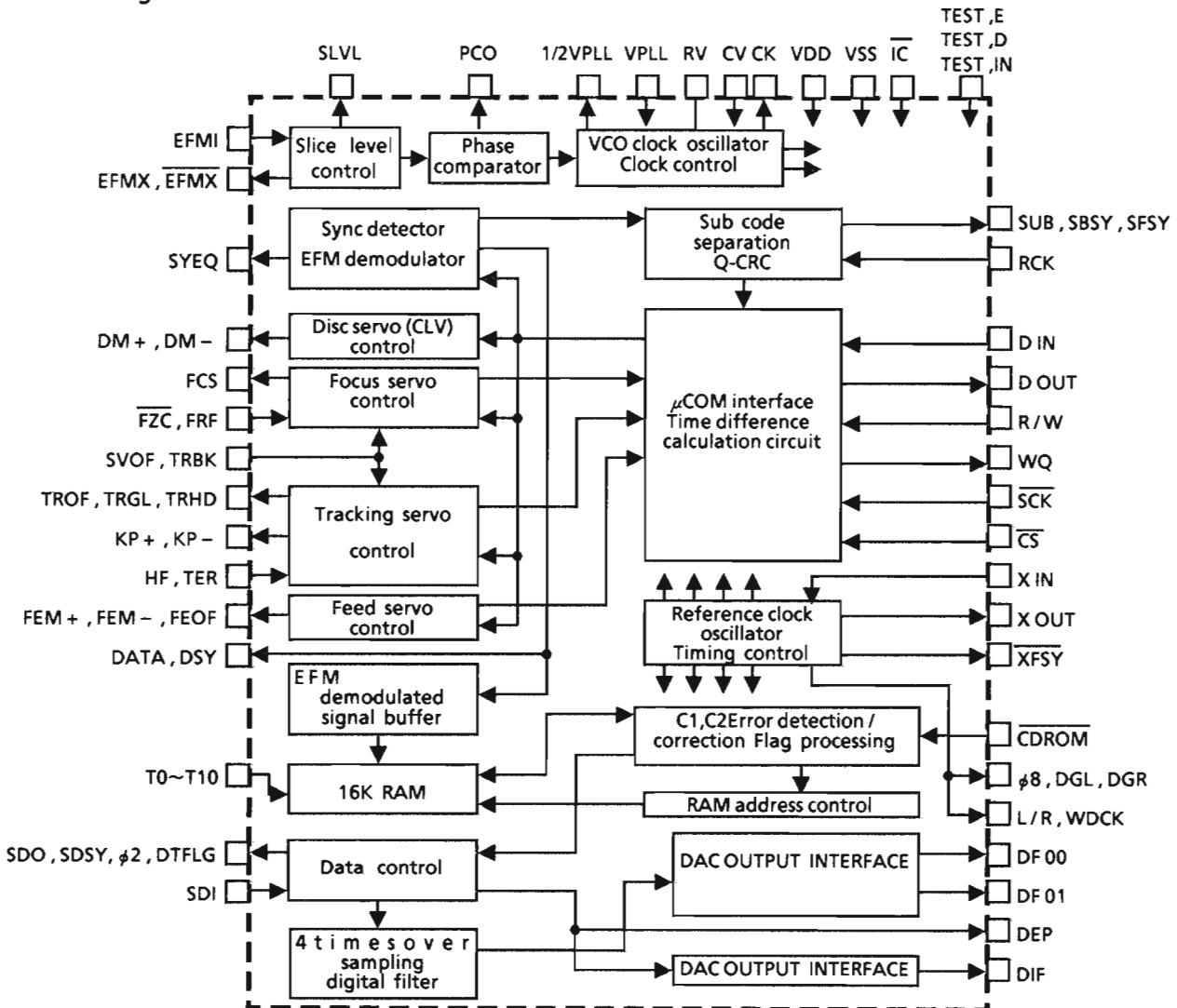
YM7121 is a C-MOS LSI for signal processing and servo control (SVC) in a CD player. It is used for the demodulation of the EFM signal from the laser pick up, detection / correction of the error signal, signal processing in digital filtering, etc. and for various servo controls (focusing, disc, tracking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



4. Pin Functions

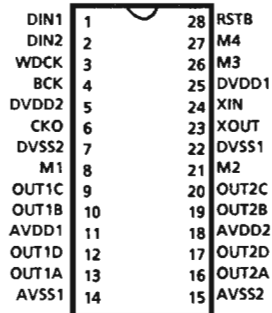
| Pin No. | Symbol | I/O | Function and Operation |
|----------------------|--------------------------------|------------------|--|
| 1 | CV | I | Adequate time constant is added to this terminal and input the PCO output. This makes the structure of clock reproduce circuit by inner VCO circuit. |
| 2 | 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 8 | DSY DATA | O O | Not used. |
| 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, 66 | VSS | — | GND |
| 30 | XOUT | O | Not used. |
| 31 | XIN | I | Input from crystal clock. |
| 33 | $\overline{\text{XFSY}}$ | O | Not used. |
| 34 35 36 37 | SUB SBSY RCK SFSY | O O I O | After detecting that SBSY changes from low to high by IC991, the sub-code(P~W) can be output from SUB output terminal by inputting 8 clocks to RCK terminal at every point where SFSY changes low to high. |
| 38 | $\overline{\text{CDROM}}$ | O | Not used. |
| 39 | $\phi 8$ | O | $\phi 8$ is 8.4672MHz crystal clock. |
| 40 | WDCK | O | Not used. |
| 41 | L/R | 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 YM7121. |
| 49 | DOUT | O | This terminal is the data output terminal connected to μCOM . When R/W is low, data is transferred from YM7121 to μCOM , according to the SCK clock input. |

XT-S50RBK

| Pin No. | Symbol | I/O | Function and Operation |
|--|---|---------------------------------|---|
| 50 | WQ | O | This terminal is connected to μ COM. It is a request signal which demands to μ COM inputting the data transfer (YM7121 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 YM7121 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. |
| 67 58 59 | \overline{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{IC} | I | YM7121 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 EFMX | O O O | Amplitude limited, mutually anti-phased signals are output from EFMX and \overline{EFMX} . 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. YM7121 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. |

■ MN35501 (IC873) : D/A Converter

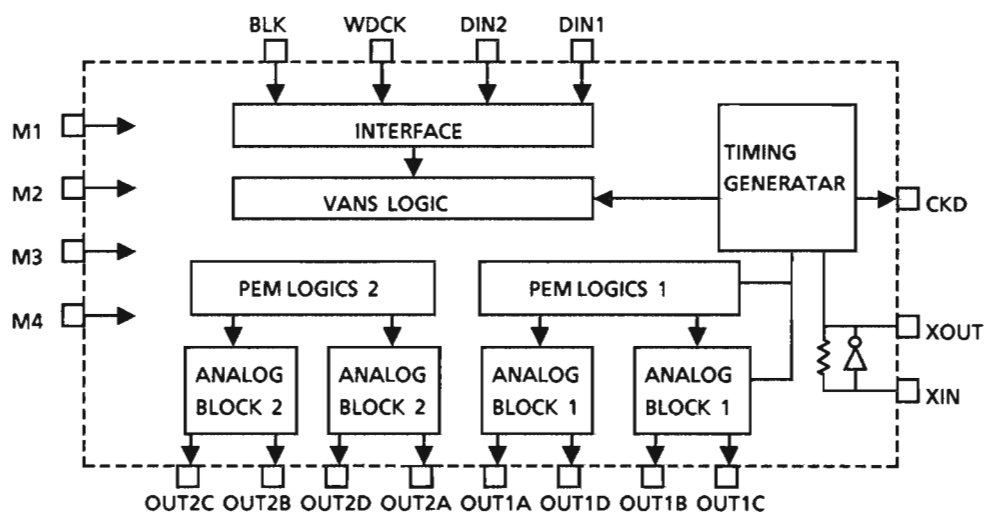
1. Terminal Layout



2. Pin Functions

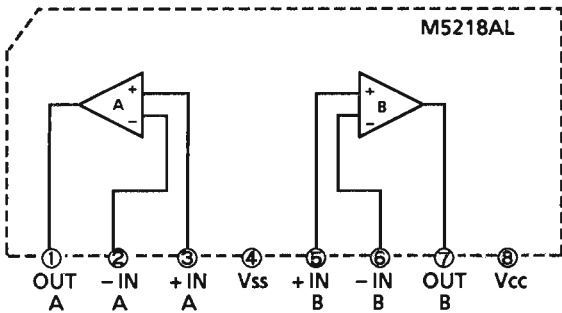
| Pin No. | Symbol | I/O | Function |
|---------|--------------|-----|---|
| 1,2 | DIN1, DIN2 | I | Serial data input |
| 3 | WDCK | I | Word clock input |
| 4 | BCK | I | Bit clock input |
| 5 | DVDD2 | - | Power supply for digital circuit |
| 6 | CKO | O | Clock output |
| 7 | DVSS2 | - | GND for digital circuit |
| 8 | M1 | I | Input for mode select |
| 9,10 | OUT1C, OUT1B | O | PEM signal output (Channel 1) |
| 11 | AVDD1 | - | Power supply for analog circuit (Channel 1) |
| 12,13 | OUT1D, OUT1A | O | PEM signal output (Channel 1) |
| 14 | AVSS1 | - | GND for analog circuit (Channel 1) |
| 15 | AVSS2 | - | GND for analog circuit (Channel 2) |
| 16,17 | OUT2A, OUT2D | O | PEM signal output (Channel 2) |
| 18 | AVDD2 | - | Power supply for analog circuit (Channel 2) |
| 19,20 | OUT2B, OUT2C | O | PEM signal output (Channel 2) |
| 21 | M2 | I | Input for mode select |
| 22 | DVSS1 | - | GND for clock circuit |
| 23,24 | XOUT, XIN | - | Oscillation terminal |
| 25 | DVDD1 | - | Power supply for clock circuit |
| 26,27 | M3, M4 | I | Input for mode select |
| 28 | RSTB | I | Reset input (Low active) |

3. Block Diagram

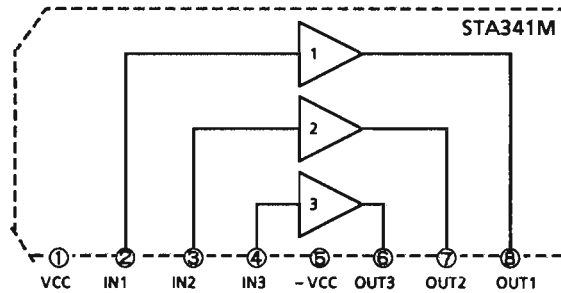


Internal Block Diagram of Other ICs

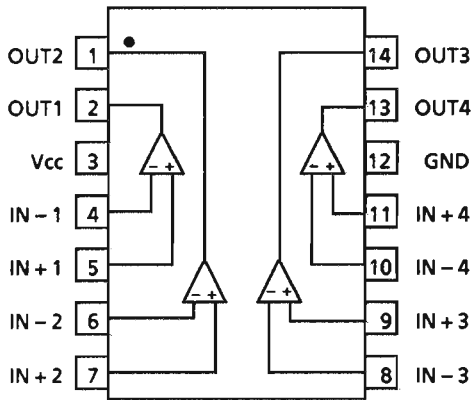
■ M5218AL (IC 762,781,803) : Dual OP Amp.



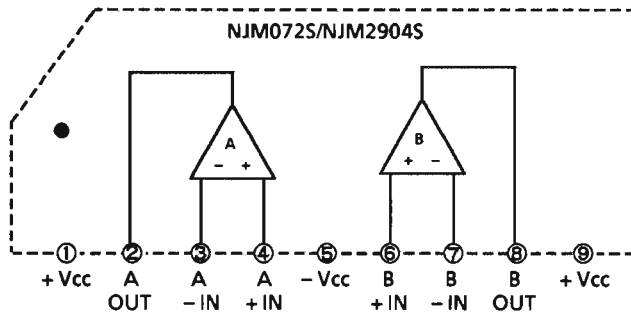
■ STA341M(A) (IC761) : Motor Driver



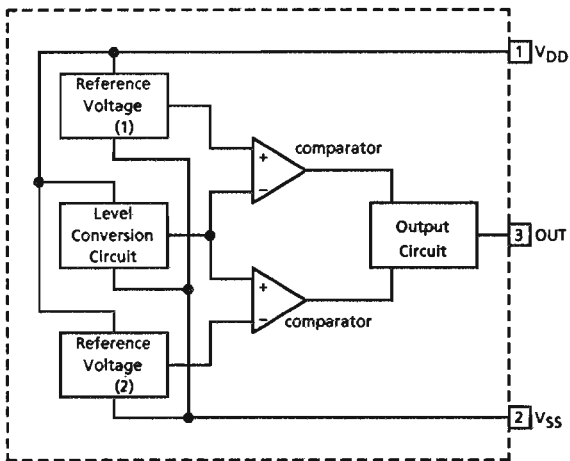
■ XRA/BA10339 (IC802) : Comparator



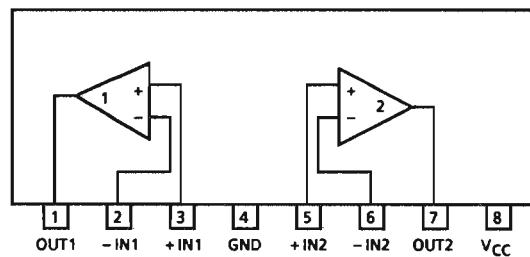
■ NJM072S/NJM2904S (IC801/971) : Dual OP Amp



■ MN1281 (P.Q) (IC952): Reset IC

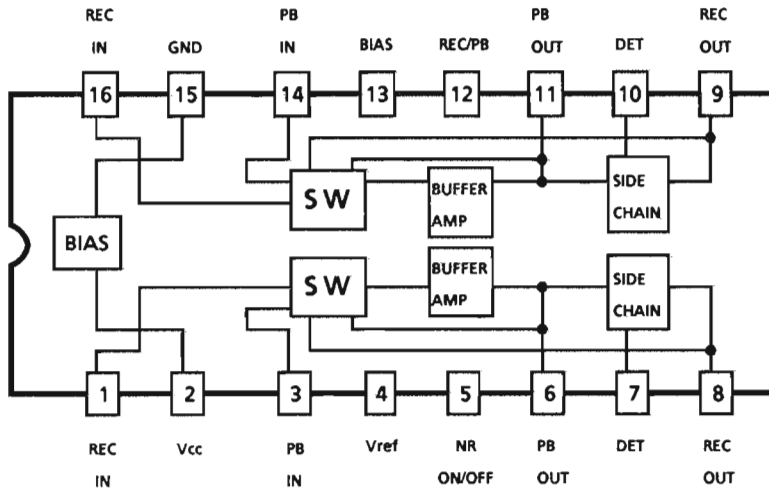


■ XRA/BA15218 (IC871) : Dual OP Amp
BA15218N (IC401)

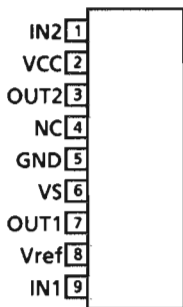


| Pin No. | Pin Name | Functions |
|---------|-----------------|---|
| 1 | V _{DD} | Power supply |
| 2 | V _{SS} | Ground |
| 3 | OUT | Reset signal output : Low level is output when resetting : High level is output when cancelling the reset. |

■ HA12136A (IC352) : Noise Reduction Amplifier



■ TA8409S (IC451~454) : DC Motor Driver

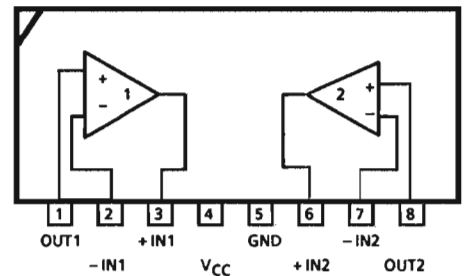


Function

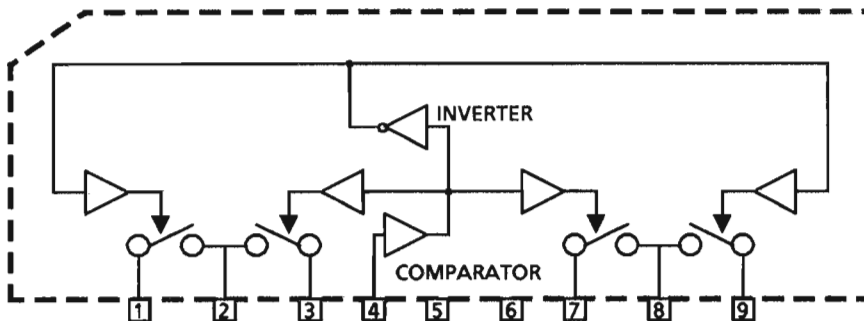
| INPUT | | OUTPUT | | MODE |
|-------|-----|--------|------|-------|
| IN1 | IN2 | OUT1 | OUT2 | |
| 0 | 0 | ∞ | ∞ | STOP |
| 1 | 0 | H | L | OPEN |
| 0 | 1 | L | H | CLOSE |
| 1 | 1 | L | L | BRAKE |

∞: High impedance

■ μPC1228HA (IC281,IC461) : Dual OP Amp.



■ μPC1330 HA (IC331) : Head Switch



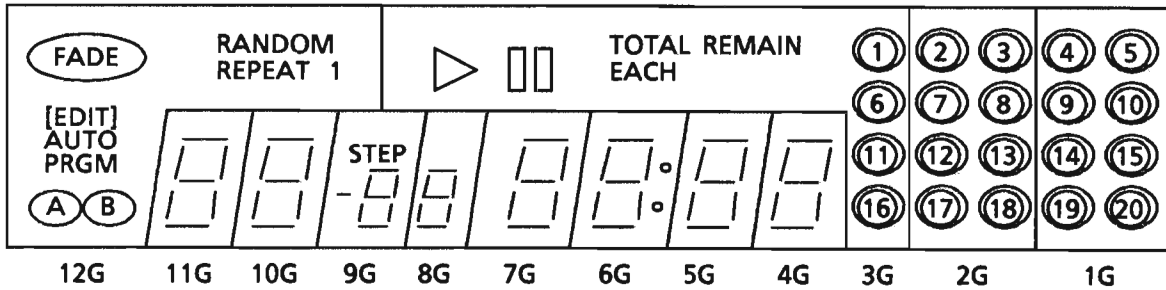
Function

| | 4pin |
|-----|------|
| PB | L |
| REC | H |

Internal Connections for the FL Display Tube

■ ELU0001-151:(FL991)

1. Grid Layout



2. Pin Connections

| TERMINAL NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|--------------|----|----|----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|
| ELECTRODE | F1 | F1 | NP | 12G | 11G | 10G | 9G | 8G | 7G | 6G | 5G | 4G | 3G | 2G | 1G | NP | NP | NP |

| TERMINAL NO. | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 |
|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| ELECTRODE | NP | NP | NP | NP | NP | NP | NP | S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | S9 | NP | F2 | F2 |

(Note) F: Filament G: Grid NP: No Pin NC: No Connection P1~P9: Anode

3. Anode Connection Table

| | 12G | 11G | 10G | 9G | 8G | 7G | 6G | 5G | 4G | 3G | 2G | 1G |
|----|--------|-----|-----|------|-----|-----|-----|-----|-----|--------|------|------|
| S1 | FADE | a | a | a | a | a | a | a | a | (1) | (2) | (4) |
| S2 | [EDIT] | b | b | b | b | b | b | b | b | (6) | (7) | (9) |
| S3 | AUTO | c | c | c | c | c | c | c | c | (11) | (12) | (14) |
| S4 | PRGM | d | d | d | d | d | d | d | d | (16) | (17) | (19) |
| S5 | (A) | e | e | e | e | e | e | e | e | ▶ | (3) | (5) |
| S6 | (B) | f | f | f | f | f | f | f | f | | (8) | (10) |
| S7 | RANDOM | g | g | g | g | g | g | g | g | TOTAL | (13) | (15) |
| S8 | REPEAT | --- | --- | STEP | --- | --- | ○ | --- | --- | EACH | (18) | (20) |
| S9 | 1 | --- | --- | (-) | --- | --- | --- | --- | --- | REMAIN | --- | --- |

Disassembly Procedures

■ Top cover removal

1. Remove the screws fastening both sides of the Top cover and rear side.
2. Remove the Top cover spreading both sides and lifting the rear up.

■ Front panel block removal

1. Remove the Top cover.
2. Remove the 2 screws ①.
3. Disconnect the connectors (P331,P333,P490,P491,P492,P493,P901,FW496).
4. Remove the 2 screws ② fixing the front panel.
5. Remove the screw ③ on the bottom.
6. Release the 3 hooks ④ and remove the front panel block.
7. Disconnect the connectors FW495.

■ CD mechanism assembly removal

1. Remove the Top cover.
2. Remove the 3 screws of the rear side.
3. Remove the 2 screws ① fixing the CD mechanism chassis.
4. Take out the CD mechanism assembly with CD PCB after unplugging the connectors (J701,J702,P901).
5. Remove the 3 screws ② fixing the CD mechanism assembly.
6. Remove the connectors (P801,P802,P803) and the CD mechanism assembly.

■ Tray removal

1. Remove the CD mechanism assembly.
2. Switch on the power of RX-S50RBK .
Press the OPEN /CLOSE switch to bring the tray forward and with the tray forward,switch off the power.
3. Remove the screw ③ on the tray .
4. Pull the tray toward the front to move it.

(Note)

If the power does not come on due to break down or the insert a Philips screw driver through the hole at the bottom of the CD mechanism assembly and turn it counter-clockwise to bring the tray forward ④.

■ Cassette mechanism assembly removal

1. Remove the front panel assembly.
2. Remove the 8 blue colored screws ① ② fixing the cassette mechanism.
3. Push the cassette button and remove the cassette mechanism assembly.

(Note)

The cassette mechanism is grounded through the bottom cover, so when checking the operations with the bottom cover removed (especially when checking the signal system), be sure to ground the chassis by using an alligator clip or other suitable gadget. Also, this mechanism is designed for pack sensing, remember that it can not be operated without any tape.

■ Cassette lid removal

1. Open the doors and slide them in the direction of the arrows.

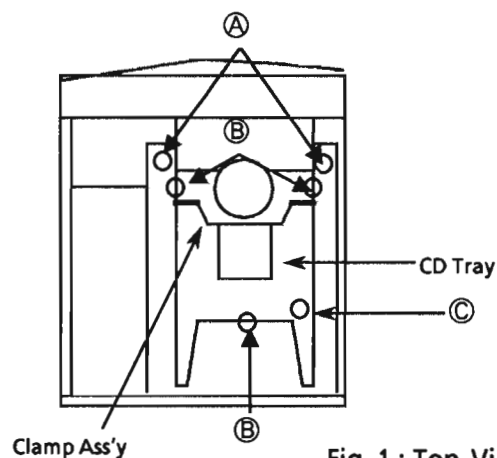


Fig. 1 : Top View

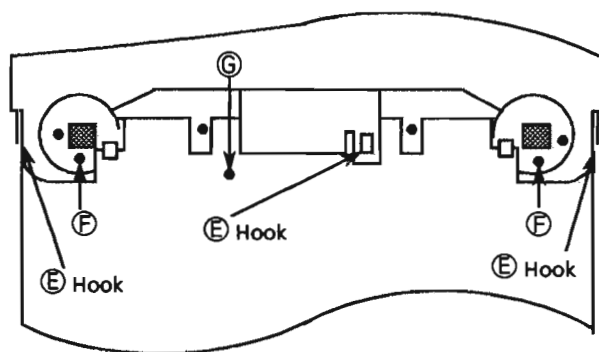


Fig. 2 : Bottom View

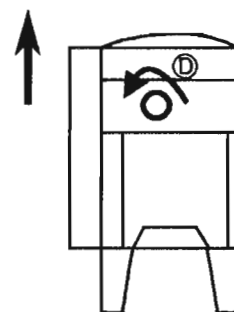


Fig. 3 : Bottom View of the CD mechanism

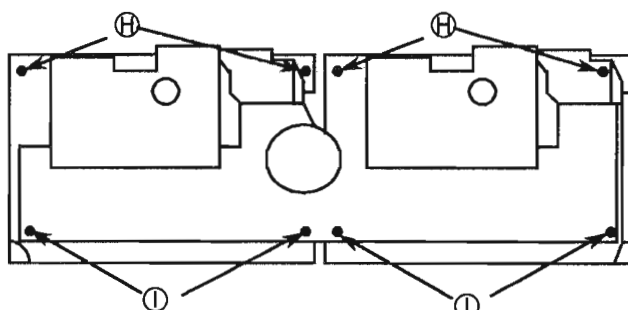


Fig. 4

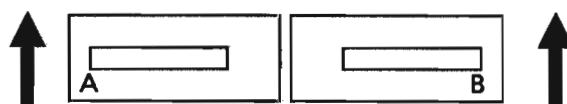


Fig. 5

Disassemble of the CD mechanism assembly

■ Pickup removal

1. Remove the cd mechanism assembly.
2. Release the shaft to remove the pickup (Fig 6).

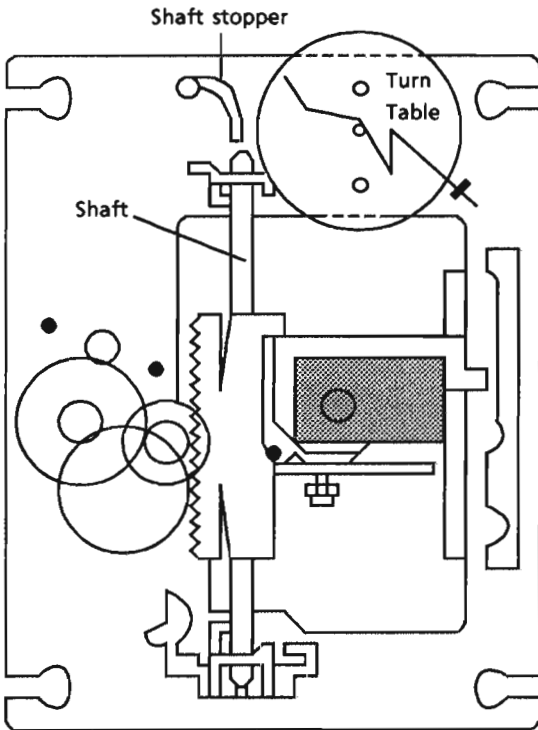


Fig. 6 : CD mechanism assembly

■ Spindle motor removal

1. Remove the CD mechanism assembly.
2. Remove the turntable, and remove the two screws retaining the spindle motor.
3. Remove the screws retaining the spindle and feed motor P.C. Board and unsolder it.

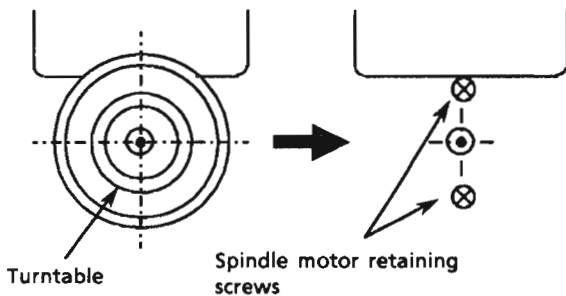


Fig. 7

■ Spindle motor installation

1. Tighten the 2 screws to the same torque.
2. Fasten the spindle and feed motor P.C. board with the screw and solder.
3. Install the turntable. When installing, press straight down at the center of the turntable until the distance from the surface of the mechanism base to the turntable is exactly $19.4 \pm 0.1\text{mm}$.

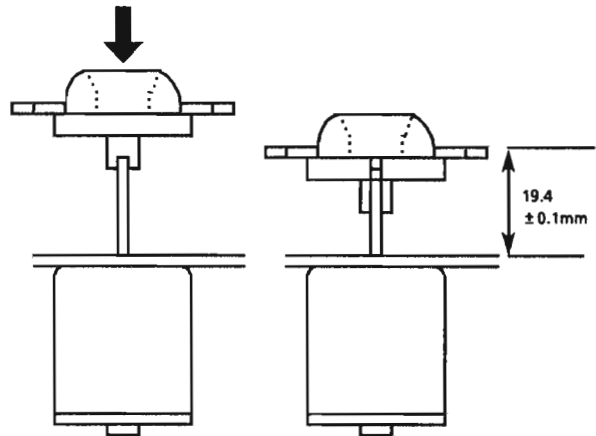


Fig. 8

4. After inserting the turntable, bond the motor shaft and turntable together (at the section marked by an arrow in fig.9 on the left below).

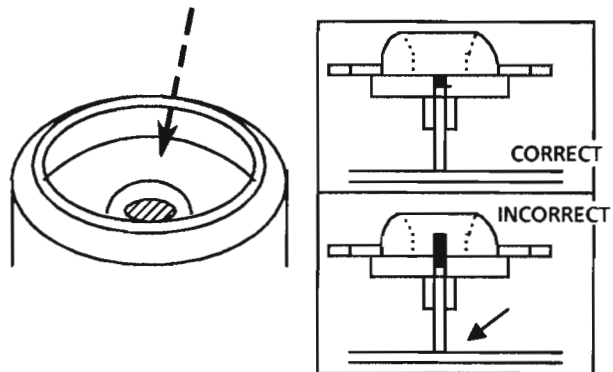


Fig. 9

5. Use "LOCKTITE" #460 bonding agent, and apply as little as possible. Take care not to allow any excess bonding agent to get onto the turntable. Be extremely careful not to allow bonding agent to adhere to the motor bearings (the section marked by an arrow in fig.9 on the right).

Disassemble of the cassette mechanism

■ Cassette controller PCB (ENJ-074-2) removal

1. Remove the cassette mechanism assembly.
2. Release the 8 hooks to remove the controller PCB (Fig. 10).

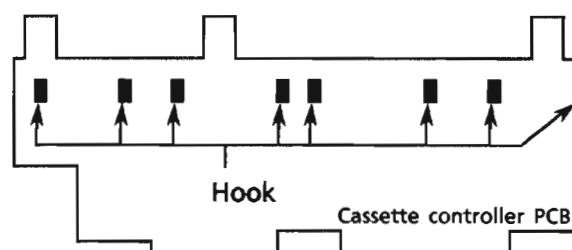


Fig. 10

■ Head assembly removal

1. Remove the cassette mechanism assembly.
2. Unsolder the flexible wire (Fig. 12).
3. Remove the 2 screws ⑩ fixing the head assembly (Fig. 17).

※ Note

The direction of the head is changed with the head gear. When servicing, install the head gear according to the direction of the head. Refer to fig. 11.

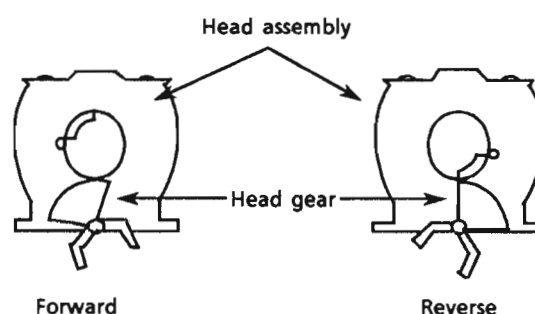


Fig. 11

■ Pinch roller arm assembly removal

1. Release the return spring (Fig. 17).
2. Release the hook holding the pinch roller arm assembly to remove the assembly (Fig. 12).

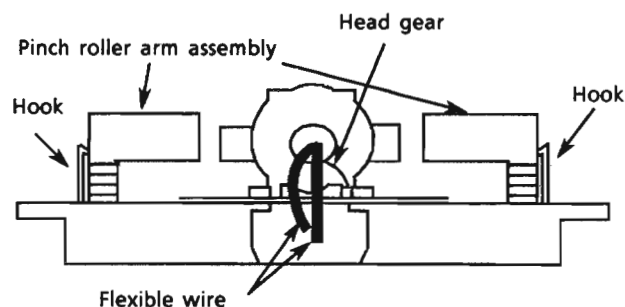


Fig. 12

■ Reel motor PCB removal

1. Remove the cassette mechanism assembly.
2. Remove the cassette controller PCB.
3. Remove the screw ⑪ fixing the reel motor PCB.
4. Unsolder the reel motor PCB.
5. Remove the PCB.
Be careful so that stress is not added to the terminals of the motor.

■ Capstan motor removal

1. Remove the cassette mechanism assembly.
2. Remove the reel motor PCBs.
3. Remove the 4 screws ⑫ fixing the bracket (Fig. 13).
4. Remove the motor with the bracket,
5. Remove the 2 screws fixing the motor and the bracket.

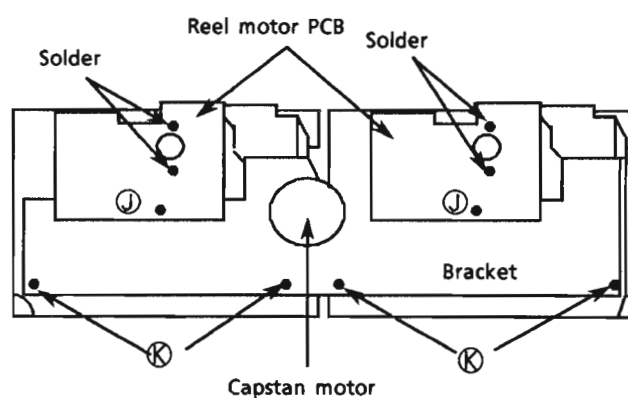


Fig. 13

■ Reel motor removal

1. Remove the cassette mechanism assembly.
2. Remove the reel motor PCB.
3. Remove the FR arm assembly (Fig. 17).
4. Remove the screw ⑬ fixing the motor (Fig. 17).
5. Remove the hooks fixing the motor to remove the motor.

XT-S50RBK

■ Fly wheel removal

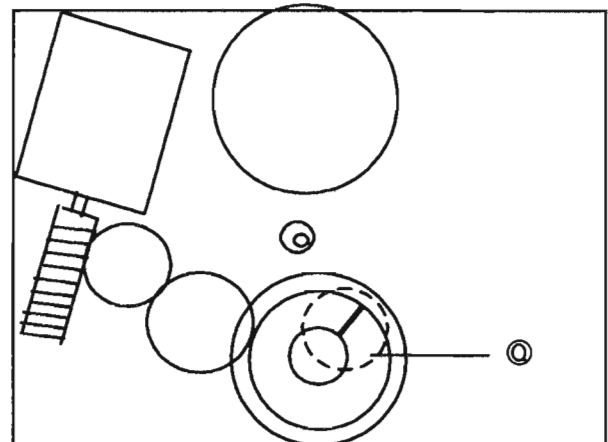
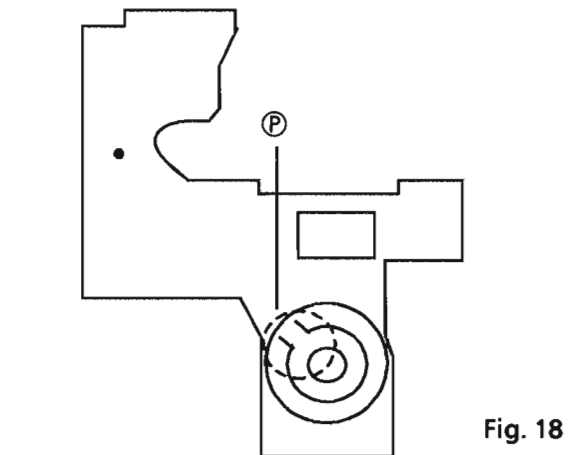
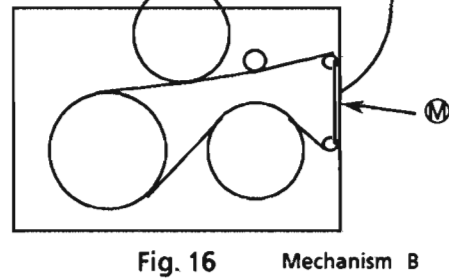
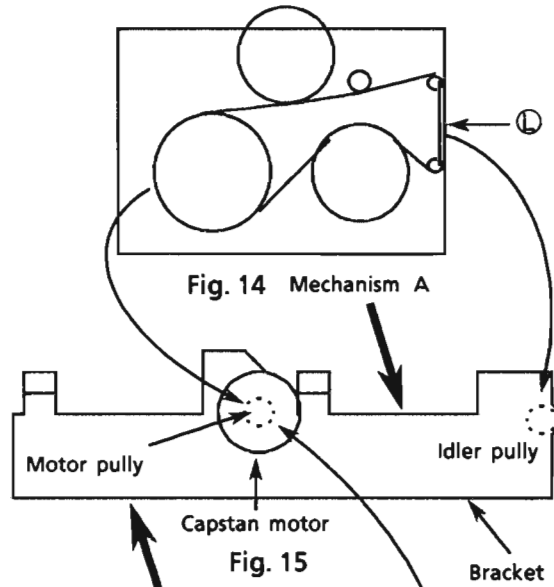
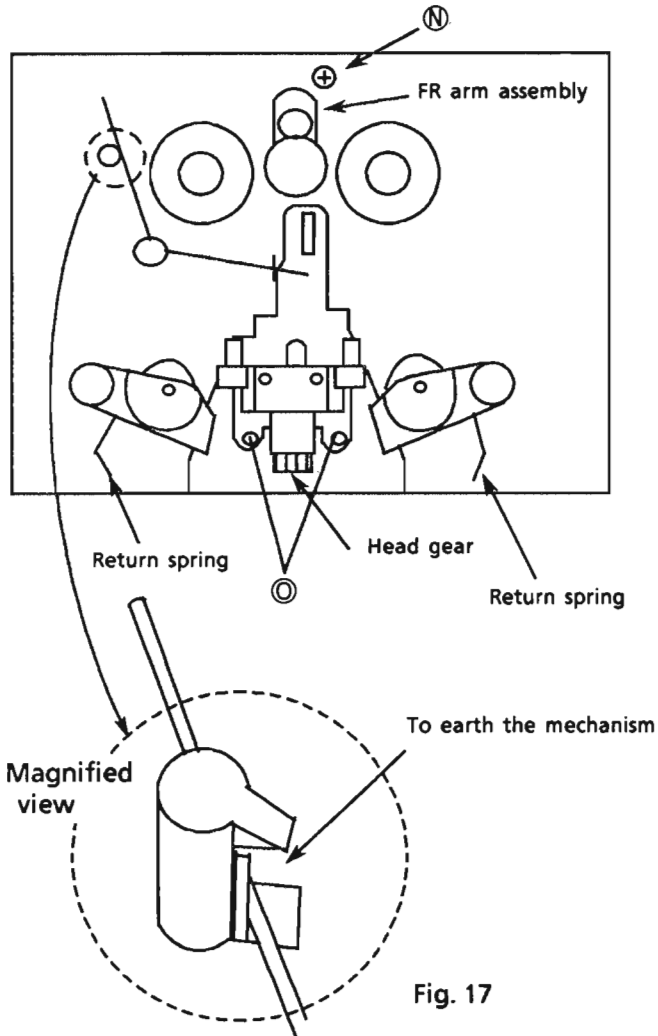
1. Remove the cassette mechanism assembly.
2. Remove the reel motor PCB.
3. Remove the screws ㊀ and the bracket (Fig. 13).

※ To install the bracket

1. Install the belt of mechanism A as shown in fig. 14.
2. Assemble the mechanism A and the bracket with the capstan motor.
3. Hang the belt of the mechanism A to the motor pulley using a tweezers and the like.
4. Hang the part ㊁ to the Idler pulley.
5. Install the mechanism B installed the belt as shown in fig. 16 to the bracket which is assembled with the mechanism A.
6. Hang the part ㊂ to the motor pulley using a tweezers and the like.

■ Cam switch PCB removal

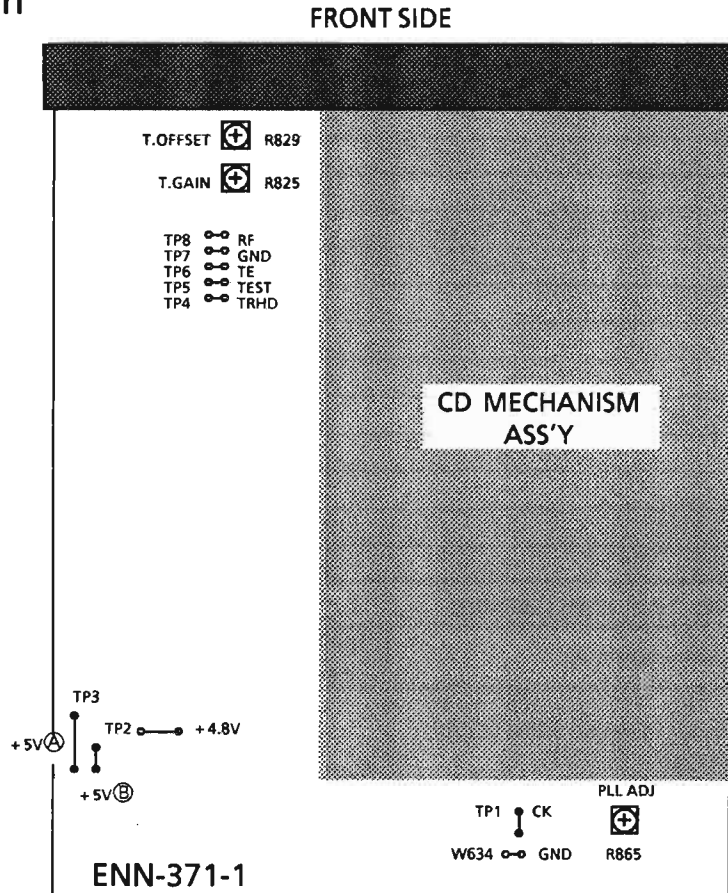
1. Remove the fly wheel.
2. Remove the hooks fixing the PCB to remove the cam switch. When assembling the cam switch, install it so that the part ㊃ meets the part ㊄ (Fig. 18).



Adjustment Procedures

* Use RX-S50RBK when adjusting .

■ CD section



1. PLL free-running adjustment

1) Measuring instrument : Frequency counter

2) Adjusting procedure

- (1) Connect a frequency counter with TP1 (CK) and W634 (GND) on the main PC board .
- (2) Adjust R865 for setting the frequency counter's value becomes $4.295 \pm 0.02\text{MHz}$.

2. Tracking gain adjustment

1) Measuring instruments : Oscilloscope, Normal disc

2) Adjusting procedure

- (1) Connect an oscilloscope with TP6 (TE) and TP7 (GND) on the main PC board.
- (2) Play a disc.
- (3) Short circuit TP5 (TEST) to TP7 (GND).
- (4) Adjust R825 for setting tracking error signal becomes $2.0 V_{p.p.}$.

3. Tracking offset adjustment

1) Measuring instruments : Oscilloscope, Normal disc

2) Adjusting procedure

- (1) Connect an oscilloscope with TP6 (TE) and TP7 (GND) on the main PC board.
- (2) Play a disc.
- (3) Short circuit TP5 (TEST) to TP7 (GND).
- (4) Adjust R829 for setting the DC level of the tracking error (off set) becomes 0.

Note : Adjust R829 for setting the waveform becomes symmetrical around the 0 level.

■ **Cassette Deck section**

1. Measuring instruments

- Audio frequency signal generator (0dbS output at the 600 ohm output terminal from 50Hz to 20KHz)
- Electronic voltmeter
- Frequency counter
- Wow & Flutter meter
- Distortion Meter with band pass filter
- Attenuator (600 ohm impedance)
- A resistor with 600Ω

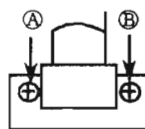
Standard Tape

0dbS = 0.775V

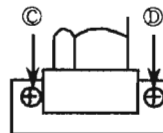
| Tape No. | Frequency | Level (Wow & Fkutter) | Purpose |
|---------------------|-----------|-----------------------|--|
| VTT-703L | 10kHz | - 10dbS | Head azimuth , Frequency Response |
| VTT-712 | 3000Hz | 0dbS 0.025%WRMS | Tape Speed , Wow & Flutter |
| VTT-724 | 1kHz | - 4dbS | Standard Level |
| TMT-6447 | - | - | Blunk Skip |
| TMT-6247 , TMT-6237 | - | - | Music Scan |
| TMT-7088S | - | - | Recording standard Normal : UR |
| AC-712 | - | - | Recording standard METAL : MA |
| AC-513 | - | - | Recording standard CrO ₂ : SA |
| TW-2111, TW-2121 | - | - | Forward / reverse play torque measuring |
| TW-2231 | - | - | Feed forward /rewind torque measuring |
| C-120 Tape | - | - | Confirming the tape running |

2. Adjustment and repairing the mechanism

| Item | Adjustment method | Standard value | Remarks |
|---------------------|---|----------------|--|
| Head azimuth | <p>Deck A</p> <ol style="list-style-type: none"> 1. Connect an electronic voltmeter to the DOLBY TP (figure 3) to playback VTT-703L. 2. Adjust screw Ⓐ so that the indication of the voltmeter becomes maximum when PLAY (▶) is pressed. 3. Adjust screw Ⓑ so that the indication of the voltmeter becomes maximum when PLAY (◀) is pressed. <p>Deck B</p> <ol style="list-style-type: none"> 4. Adjust screw Ⓒ so that the indication of the voltmeter becomes maximum when PLAY (▶) is pressed. 5. Adjust screw Ⓓ so that the indication of the voltmeter becomes maximum when PLAY (◀) is pressed. 6. After making the adjustment, apply screw lock to prevent screws Ⓐ , Ⓑ , Ⓒ and Ⓓ coming loose . | Maximum | <ol style="list-style-type: none"> 1. Refer to figure 1. 2. When the specified characteristic cannot be obtained because of head wear, excessive magnetization, etc., replace the head assembly and adjust the head azimuth. Also, perform the electric adjustment. 3. When there is the difference of more than 3 ~ 4 dB between left and right output levels, replace the head assembly to avoid complaints. |
| Playback torque | 1. Measure the torque in the playback mode by the torque meter. | 26 ~ 62 g-cm | When the standard torque cannot be obtained, replace the FR arm assembly or motor. |
| Fast forward torque | 1. Measure the torque in the fast forward mode by the torque meter. | 80 ~ 200 g-cm | When the standard torque cannot be obtained, replace the FR arm assembly or motor. |
| Rewind torque | 1. Measure the torque in the rewind mode by the torque meter. | 80 ~ 200 g-cm | When the standard torque cannot be obtained, replace the FR arm assembly or motor. |
| Wow & flutter | <ol style="list-style-type: none"> 1. Connect the wow & flutter meter to the DOLBY TP (figure 3) and play back VTT-712 . 2. Its reading should be within 0.2% (WTD). | Less than 0.2% | As a complaint may occur if the wow & flutter fluctuates by 0.1% even though it is allowed in the standard, repairing is required. |



Deck A



Deck B

Figure 1

3. Electrical Adjustments (Make the following adjustments after adjusting the head azimuth.)

In principle, the adjustments should be made in the following sequence.
 Set the NR switch to OFF and the BEAT CUT switch to "1".
 Adjustments marked with an asterisk (*) should always be made after the head is replaced

0dBs = 0.775V.

| Item | Adjustment Method | Adjustment Location | Standard Value | Remarks |
|---|--|--|--|---|
| Tape Speed | 1. Connect a frequency counter to the DOLBY TP (figure 3) and play back VTT-712. 2. Adjust the semi-fixed resistor VR481 on ENJ-074-1. | VR481 | 3,000 Hz ± 10Hz | Connect a wow & flutter meter with a built-in frequency counter to the speaker terminals. |
| Standard level (Playback Level) | 1. Connect an electronic voltmeter to the DOLBY TP (figure 3). Play back VTT-724 (1 kHz : -4dBs) to adjust the semi-fixed resistors. | Deck A L: VR453 R: VR454 Deck B L: VR281 R: VR282 | 488mV (-4dBs) | 1) The playback level varies when the head is replaced so should be adjusted. Use an electronic voltmeter with an impedance of 100 kΩ or more. |
| Playback Frequency Response | 1. Connect an electronic voltmeter to the DOLBY TP (figure 3). 2. Play VTT-703L (10kHz : -10dBs) and adjust semi-fixed resistors to obtain the standard values. | Deck A L: VR451 R: VR452 Deck B L: VR283 R: VR284 | 245mV (-10dBs) | — |
| Recording Bias Frequency | 1. Connect a frequency counter to the BIAS TP (figure 3), and perform a recording to adjust bias frequency. | L331 | 100 kHz ± 5 kHz | Set the BEAT CUT SWITCH to "1". |
| Record / Play Frequency Response (Bias current) | 1. Supply 1kHz and 12.5kHz with 30mV signals to AUX/VIDEO terminals respectively to record them. 2. Connect an electronic voltmeter to the DOLBY TP (figure 3) to confirm the recorded values. 3. If the values are not satisfied, adjust the semi-fixed resistors and record the signal again to confirm the recorded values. | L: VR331 R: VR332 | 0 ± 2 dB with 1 kHz as the standard. | Refer to figure 2 below. 1) The recording and playback frequency response of a cassette deck are adjusted by adjusting the bias. 2) Perform the adjustment with normal tape and confirm that the values are within the range for metal tape. |

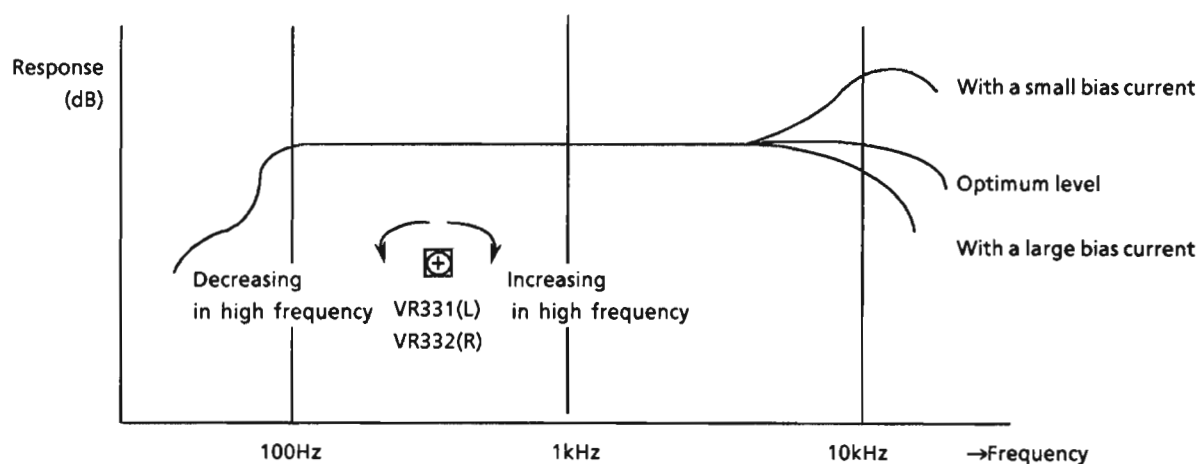


Figure 2

XT-S50RBK

| Item | Adjustment Method | Adjustment Location | Standard Value | Remarks |
|---------------------------------|--|------------------------|---|--|
| Record / Playback Sensitivity | <ol style="list-style-type: none"> 1. Input a 1kHz (300mV) signal to AUX/VIDEO terminal and record it with a normal tape. 2. Connect an electronic voltmeter to the DOLBY TP (figure 3) to confirm the values. 3. If the values are not satisfied, adjust the semi-fixed resistors and record the signal again to confirm the values. | L : VR311 R : VR312 | - 5.5dBs (411mV) | Adjust with normal tape and make sure that the left / right level difference is 1.0dB or less |
| Recording / playback distortion | <ol style="list-style-type: none"> 1) Input a 1 kHz (300mV) to AUX/VIDEO terminal and record it. 2) Play it back and check the speaker out with a distortion meter to make sure it is within the criterion. | | less than 3% (Normal/ CrO ₂) | Perform after the record / play frequency response and recording / playback sensitivity adjustments. |
| Recording / playback S/N ratio | <ol style="list-style-type: none"> 1) Input a 1 kHz (300mV) signal to AUX/VIDEO terminal and record it. While recording, remove the input and record without the signal. 2) Connect a electronic voltmeter to the speaker terminals to measure the output levels. 3) Confirm that the output level ratio between the signals with a 1kHz and no signal is more than 40dB. | | more than 40 dB (Normal/ CrO ₂) | |
| Erase ratio check | <ol style="list-style-type: none"> 1. Record a music source using the Metal tape. 2. Rewind and erase the recorded section. 3. Comfirm nothing can be heard. | — | — | — |
| Music Scan | <ol style="list-style-type: none"> 1. Make sure not to work the music scanning operation at the start of tape wind. 2. Make sure to work the music scanning operation at the end of tape wind. | — | — | — |

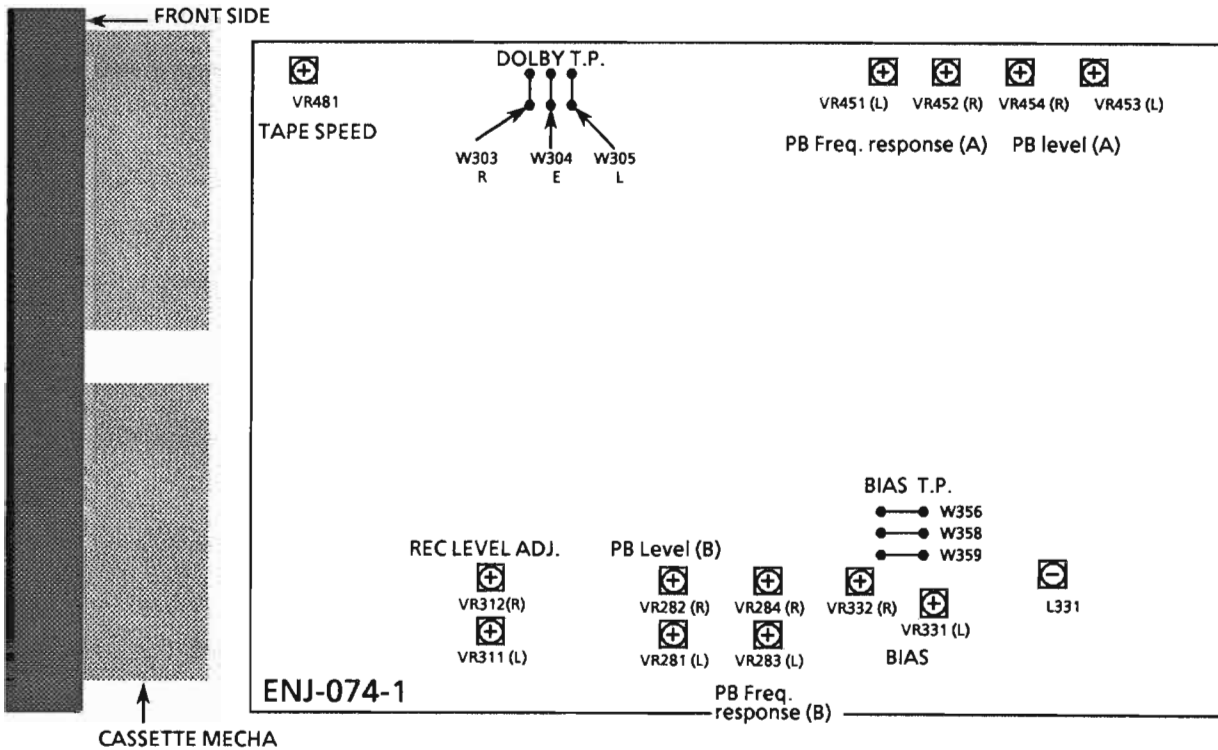


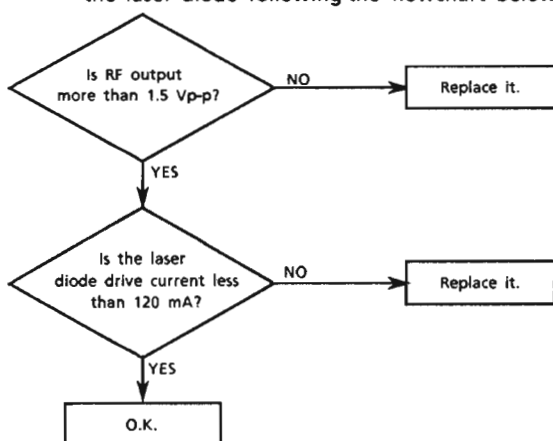
Figure 3

Maintenance of Laser Pickup

1. Life of the laser diode

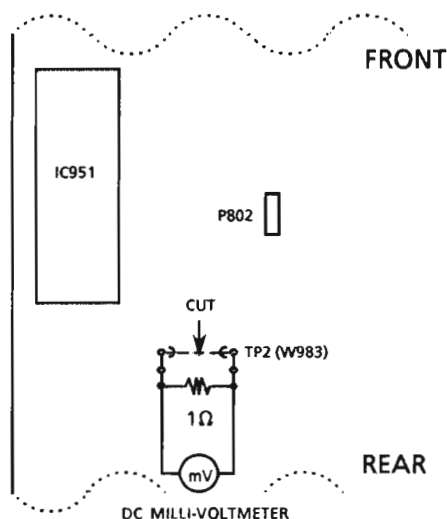
When the life of the laser diode has expired, the following symptoms will appear.

- (1) The level of RF output (EFM output: amplitude of eye pattern) will be low.
- (2) The drive current required by the laser diode 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 TP2(W983) shown below with the resistor (1Ω). Measure the voltage across the resistor with a milli-voltmeter. When the voltage is more than 180mV, it shows that the life of the laser diode has expired.



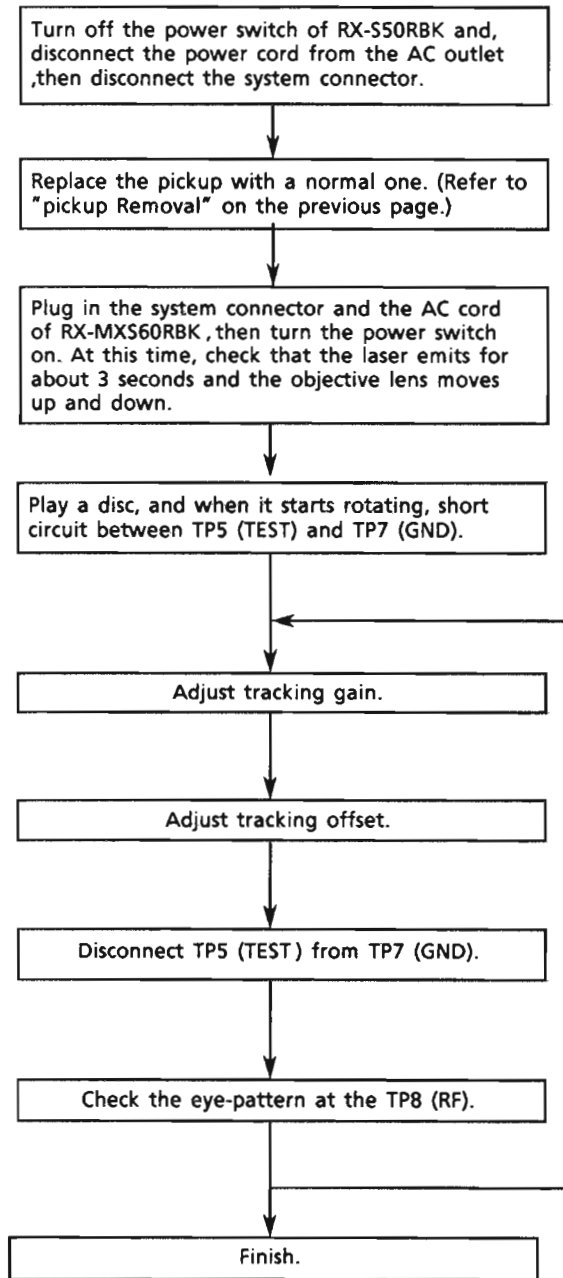
3. Semi-fixed resistor on the APC PC board

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.

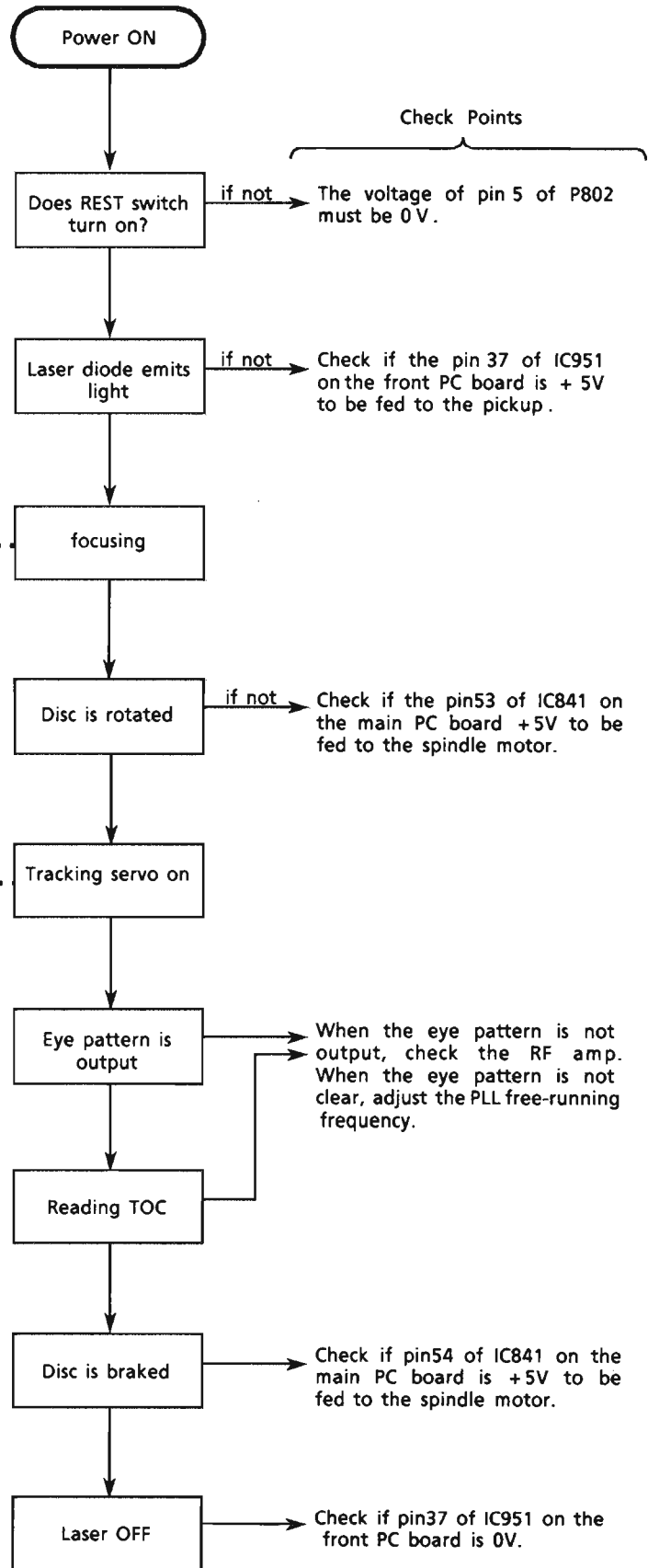
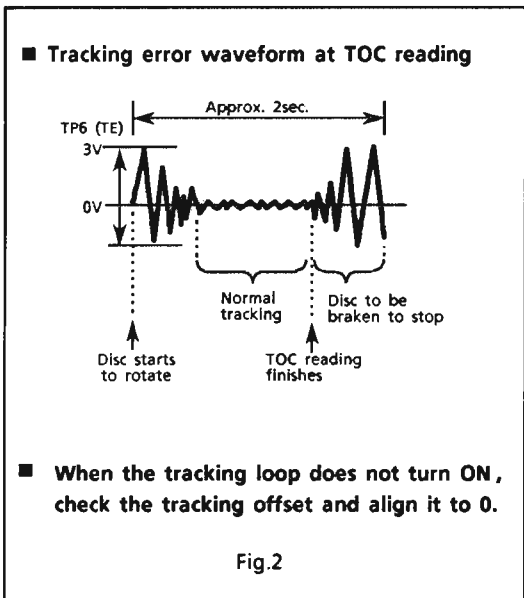
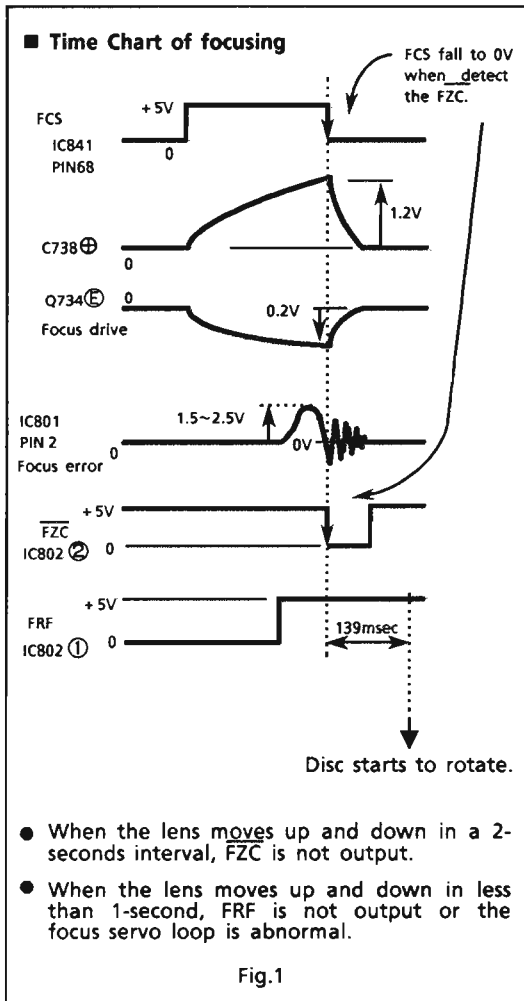
If the semi-fixed resistor is adjusted while the pickup is functioning normally, the laser pickup may be damaged due to excessive current.

Replacement of Laser Pickup



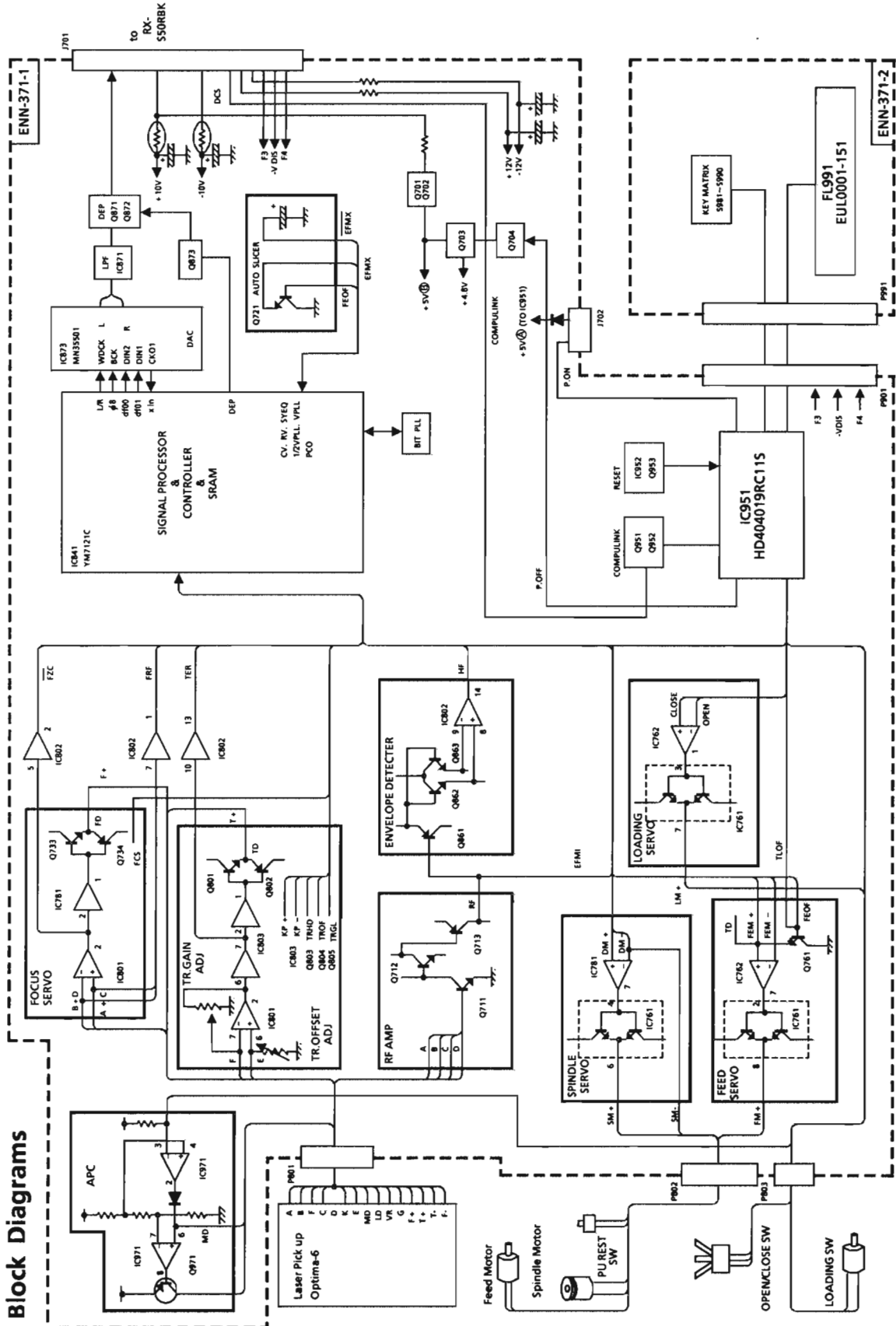
Note : Since one adjustment may affect other settings, repeat these adjustments a few times.

Flow of Functional Operation Until TOC is Read



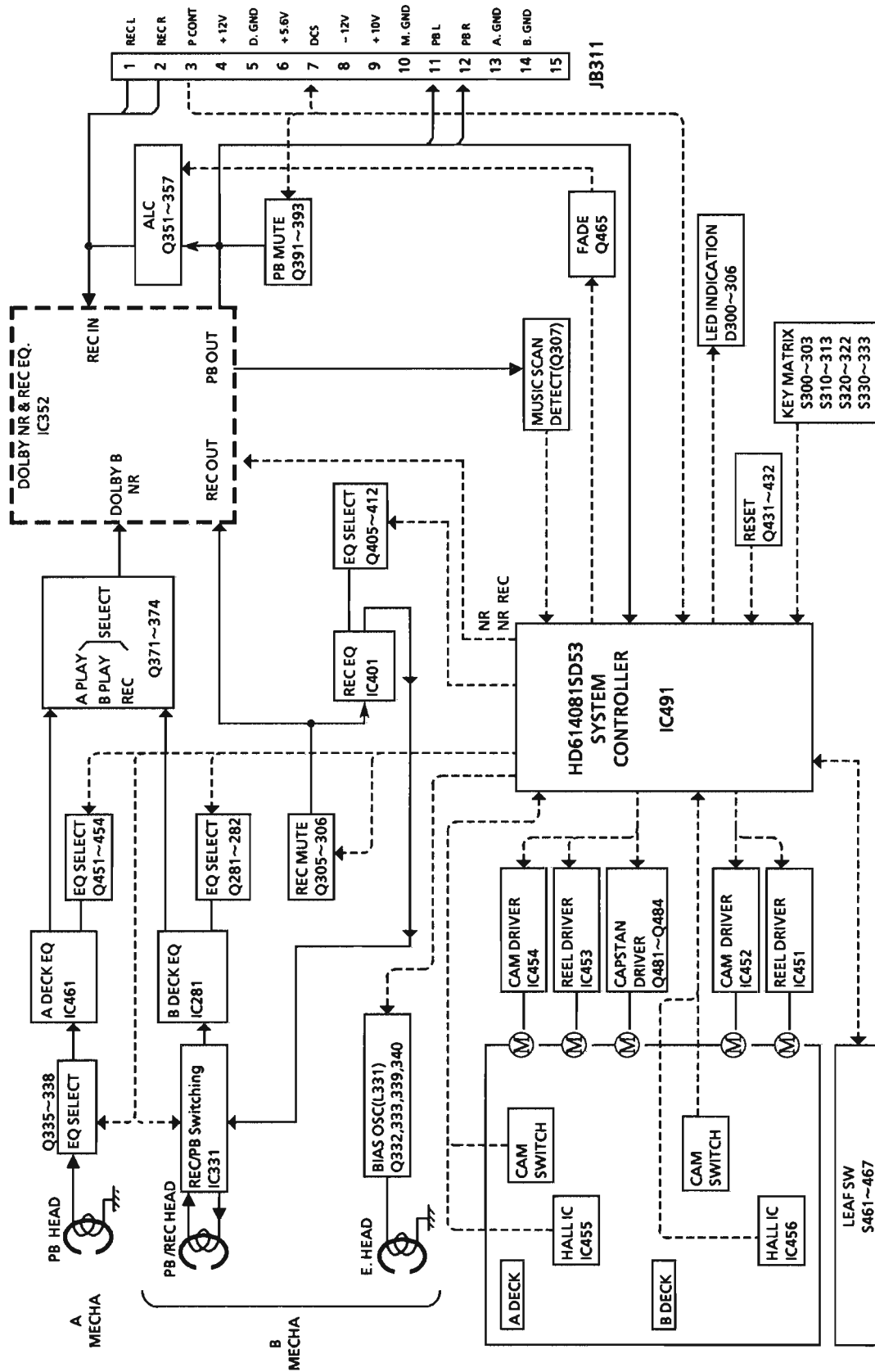
Block Diagrams

■ CD Section



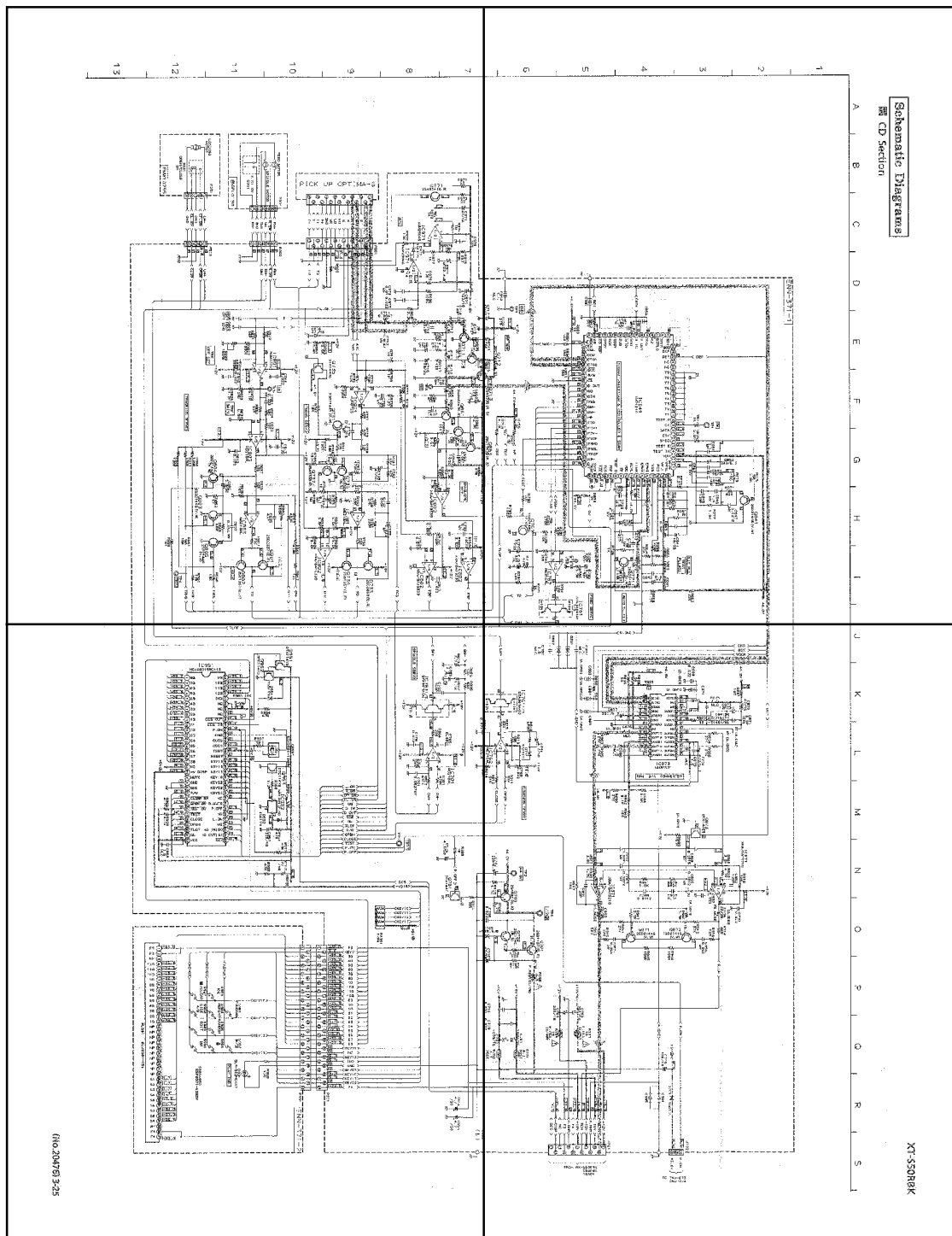
Block Diagrams

■ Cassette Deck Section



P3-25-a

P3-25-b

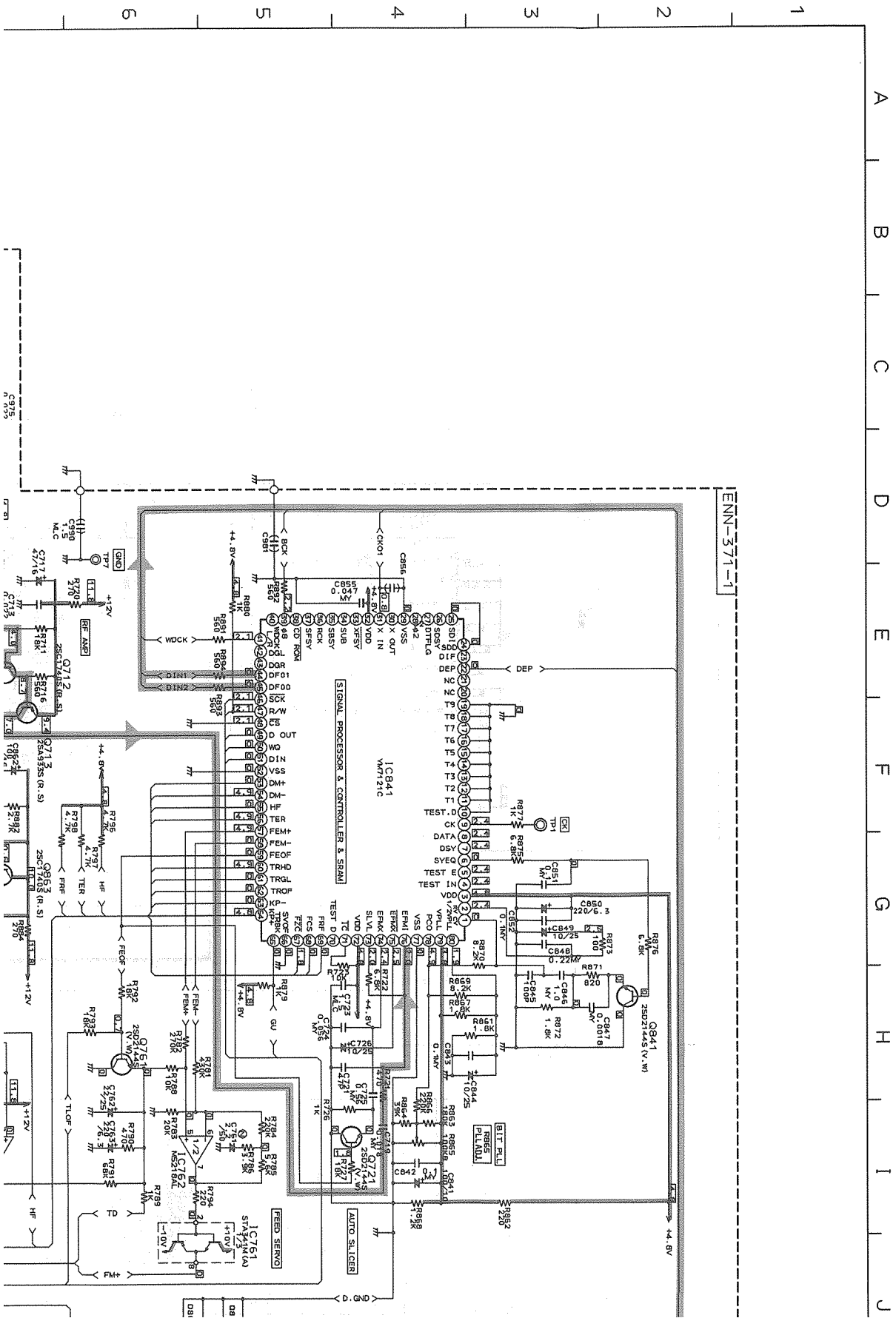


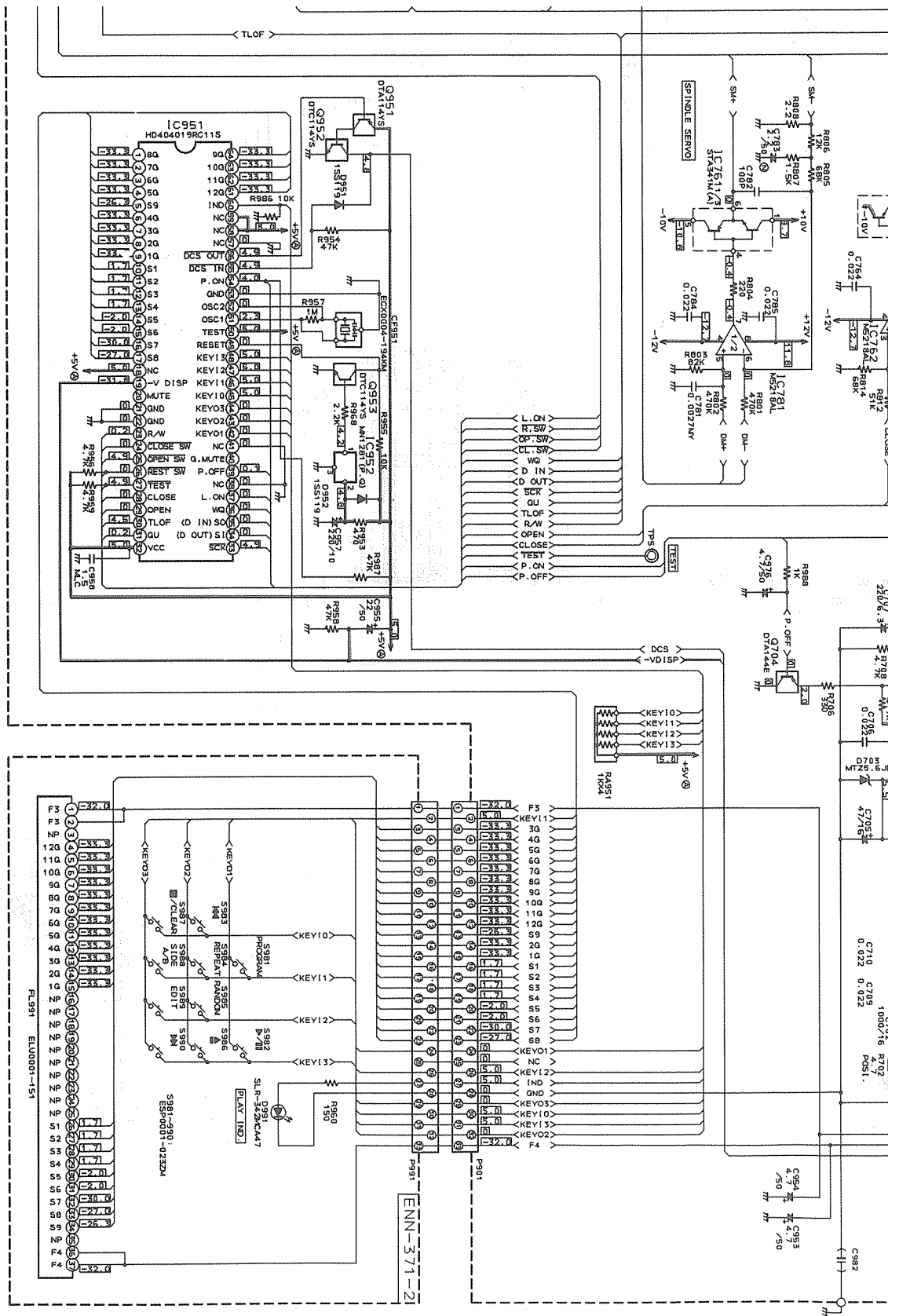
P3-25-c

P3-25-d

Schematic Diagrams

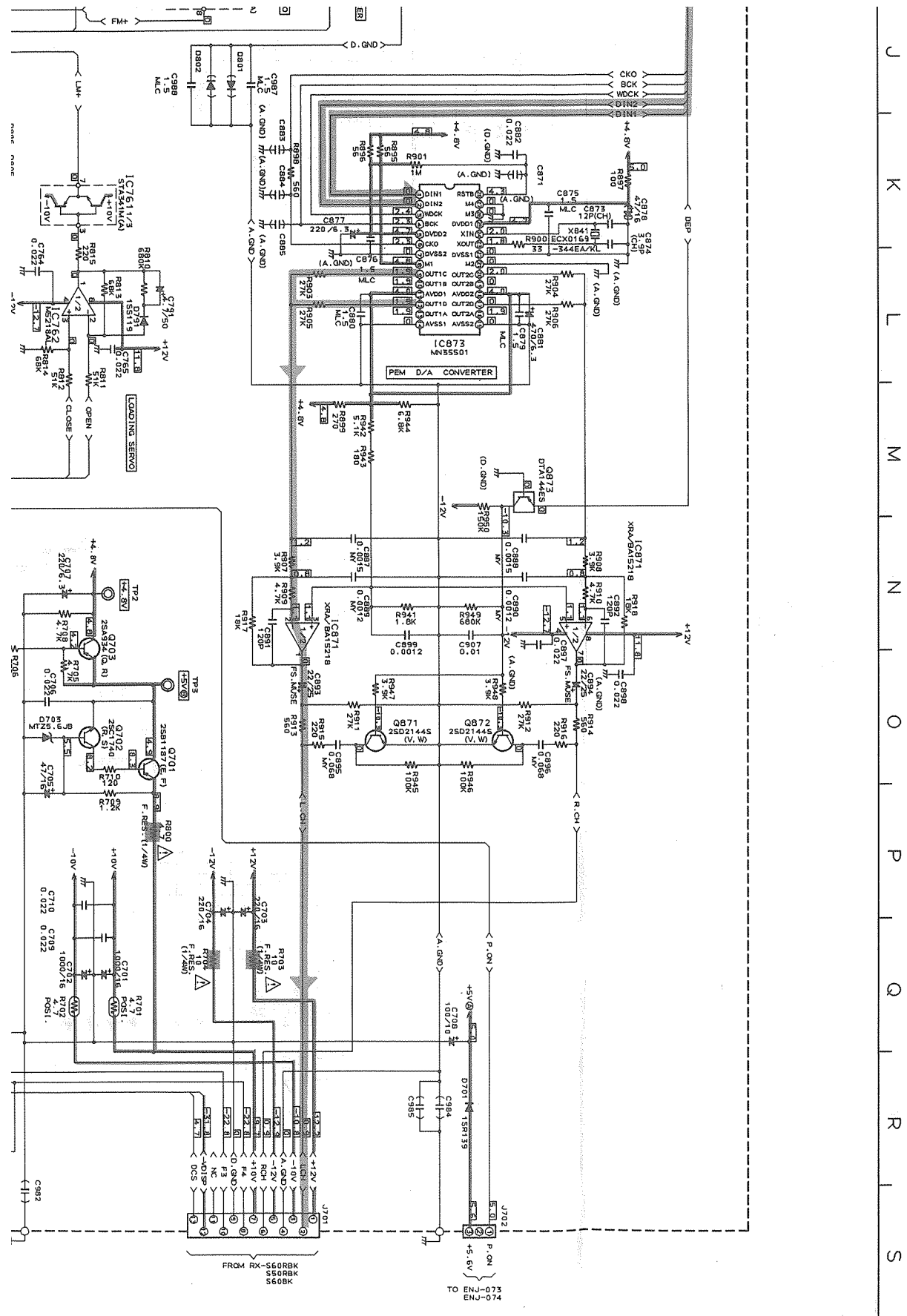
CD Section





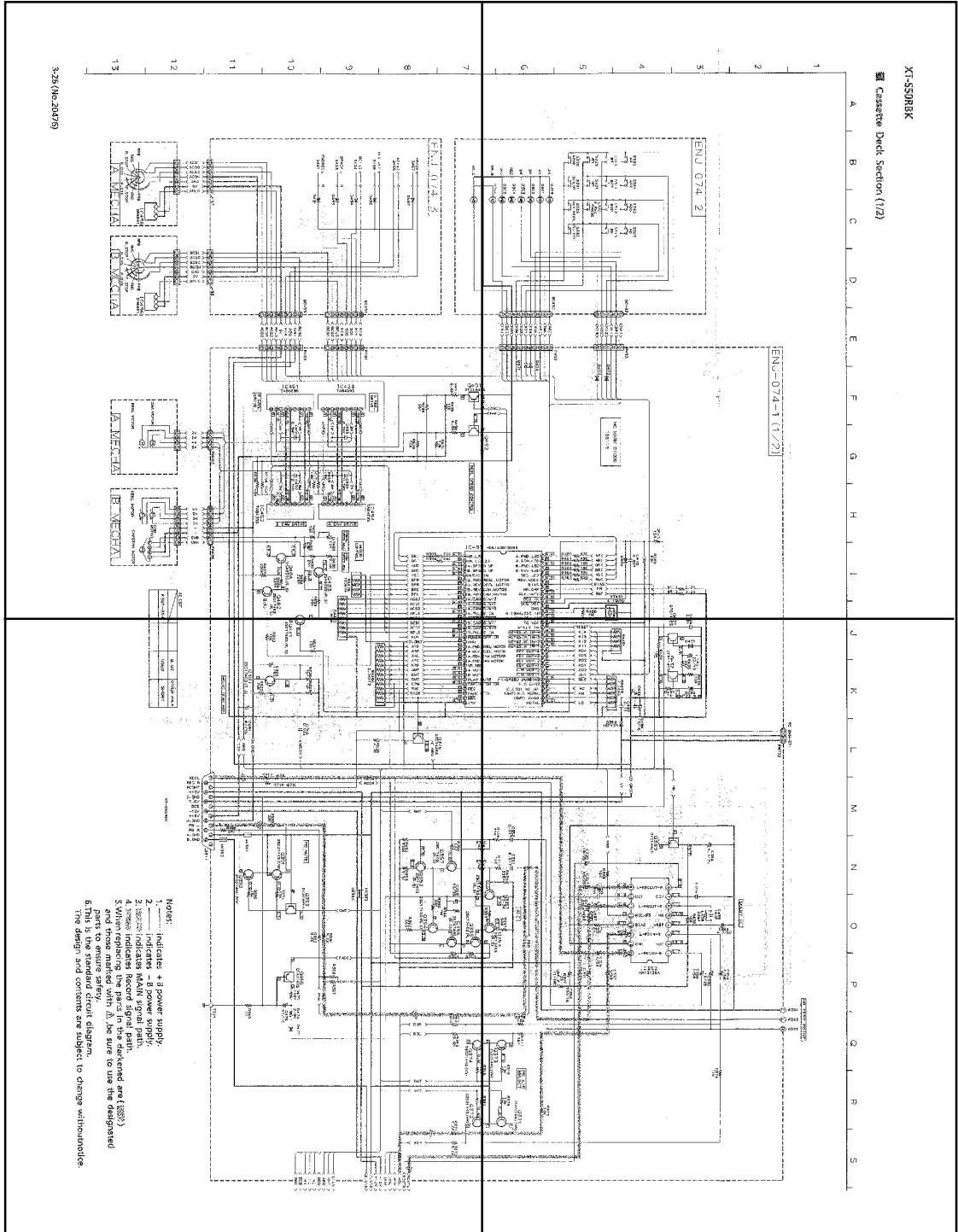
(No.20476) 3-25

XT-550RBK



P3-26-a

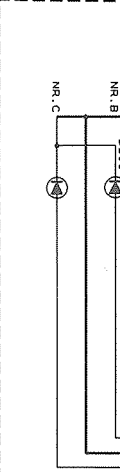
P3-26-b



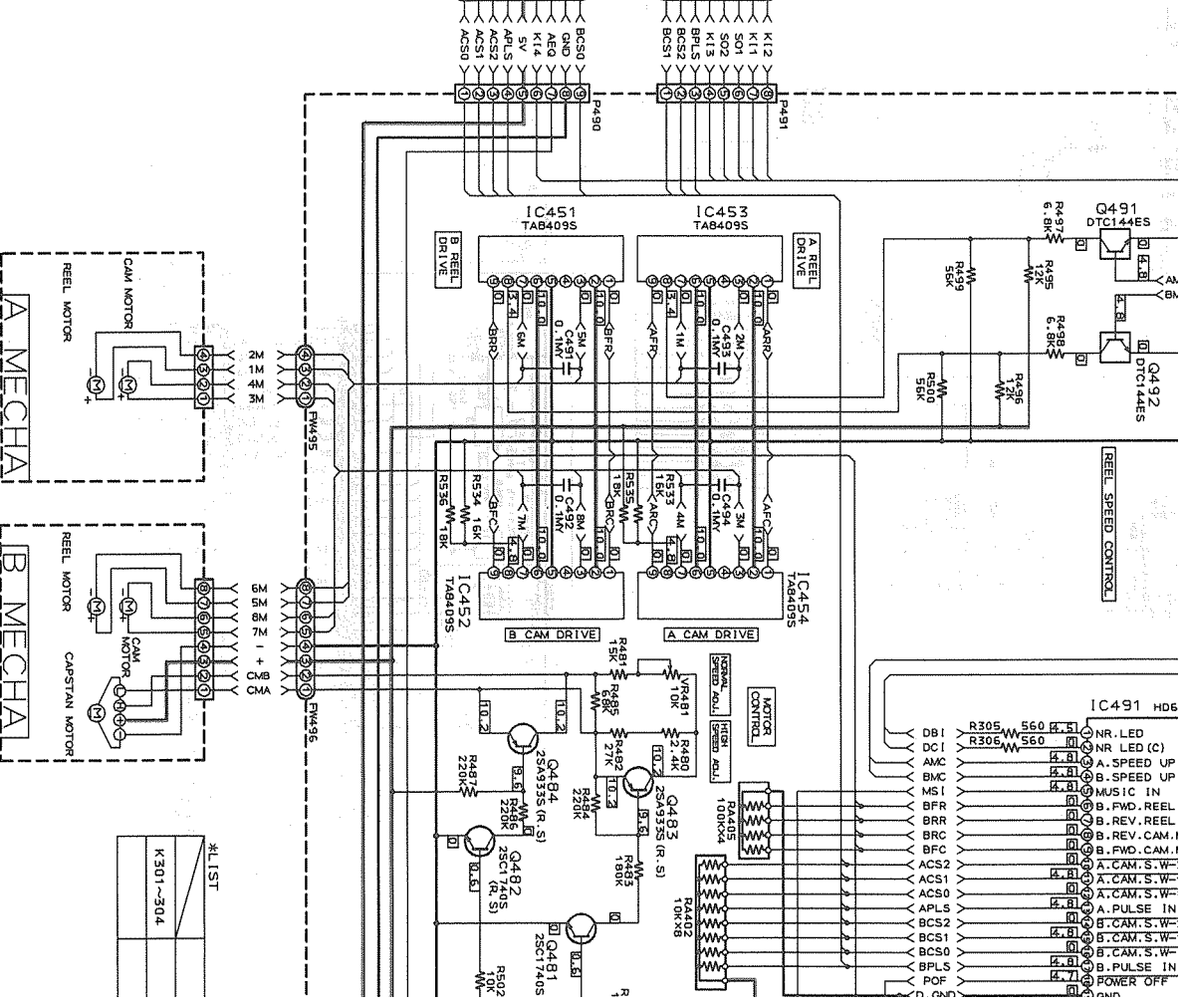
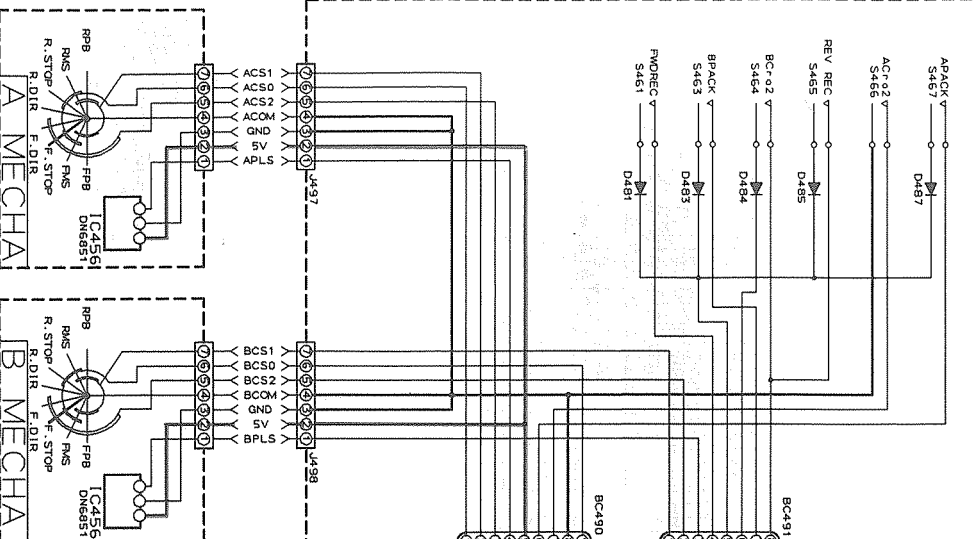
P3-26-c

P3-26-d

7
8
9
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11
12
13



ENU-074-3



IC491 HD6

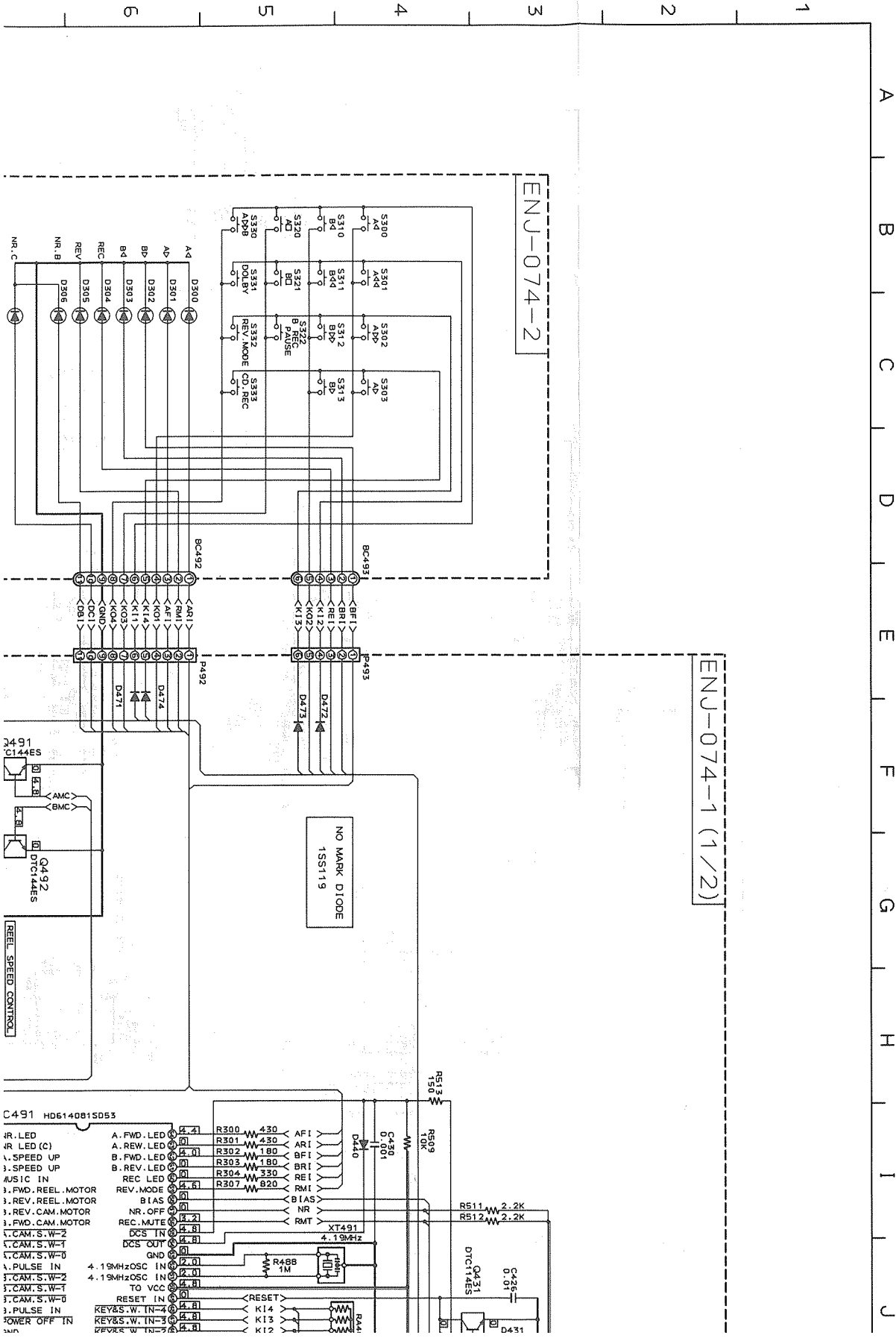
| | | | |
|------|------|-----|---------------|
| DB1 | R305 | 560 | NR. LED |
| DC1 | R305 | 560 | NR. LED (C) |
| AMC | | | A. SPEED UP |
| BMC | | | B. SPEED UP |
| MS1 | | | MUSIC IN |
| BFR | | | B. FWD. REEL |
| BRR | | | B. REV. REEL |
| BFC | | | B. FWD. CAM.1 |
| BRC | | | B. REV. CAM.1 |
| ACS1 | | | A. CAM. S.W. |
| ACS0 | | | A. CAM. S.W. |
| APLS | | | A. PULSE IN |
| BCS1 | | | B. CAM. S.W. |
| BCS0 | | | B. CAM. S.W. |
| BPLS | | | B. PULSE IN |
| POF | | | POWER OFF |
| GN5 | | | GN5 |

KL1ST

| | |
|------|------|
| K301 | ~304 |
|------|------|

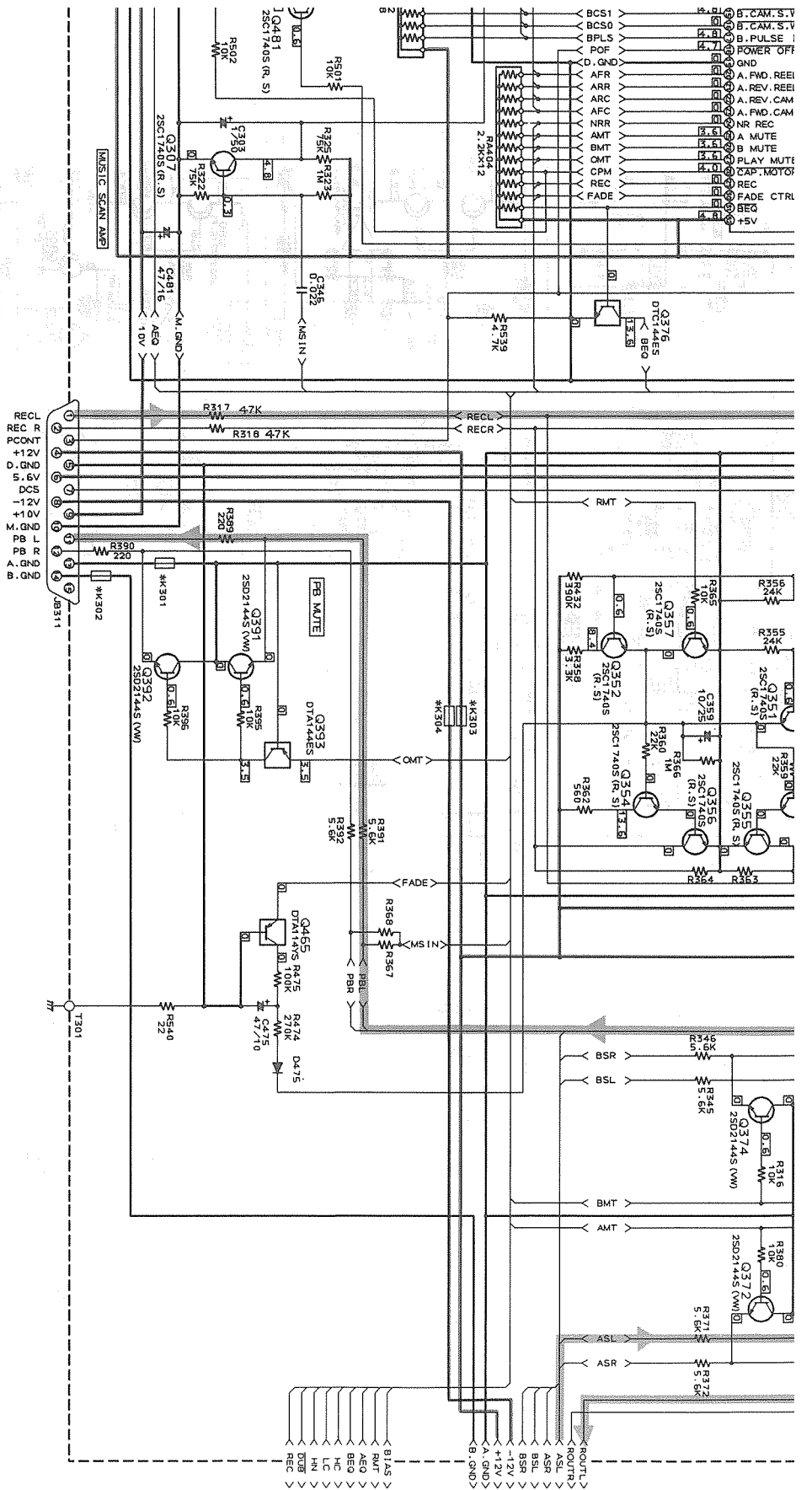
XT-S50RBK

Cassette Deck Section (1/2)



C491 HD614081SD53

| | | | | |
|--------------------|-----------------|------|-----|---------|
| IR LED | A. FWD. LED | R300 | 430 | AF1 |
| IR LED (C) | A. REW. LED | R301 | 430 | AR1 |
| 1. SPEED UP | B. FWD. LED | R302 | 80 | BF1 |
| 3. SPEED UP | B. REV. LED | R303 | 80 | BR1 |
| AUSIC IN | REC LED | R304 | 230 | RE1 |
| 3. FWD. REEL MOTOR | REV. MODE | R307 | 220 | RM1 |
| 3. REV. REEL MOTOR | BIAS | | | BIAS |
| 3. REV. CAM MOTOR | NR. OFF | | | NR |
| 3. FWD. CAM MOTOR | REC. MJTE | | | RMT |
| 1. CAM. S.W-2 | DCS IN | | | XT491 |
| 1. CAM. S.W-1 | DCS OUT | | | 4.19MHz |
| 3. CAM. S.W-0 | GND | | | |
| 1. PULSE IN | 4. 19MHz OSC IN | | | |
| 3. CAM. S.W-2 | 4. 19MHz OSC IN | | | |
| 3. CAM. S.W-1 | TO VCC | | | |
| 3. CAM. S.W-0 | RESET IN | | | RESET |
| 3. PULSE IN | KEY&S.W. IN-4 | | | K14 |
| POWER OFF IN | KEY&S.W. IN-3 | | | K13 |
| NR | POWER W. IN-2 | | | K12 |

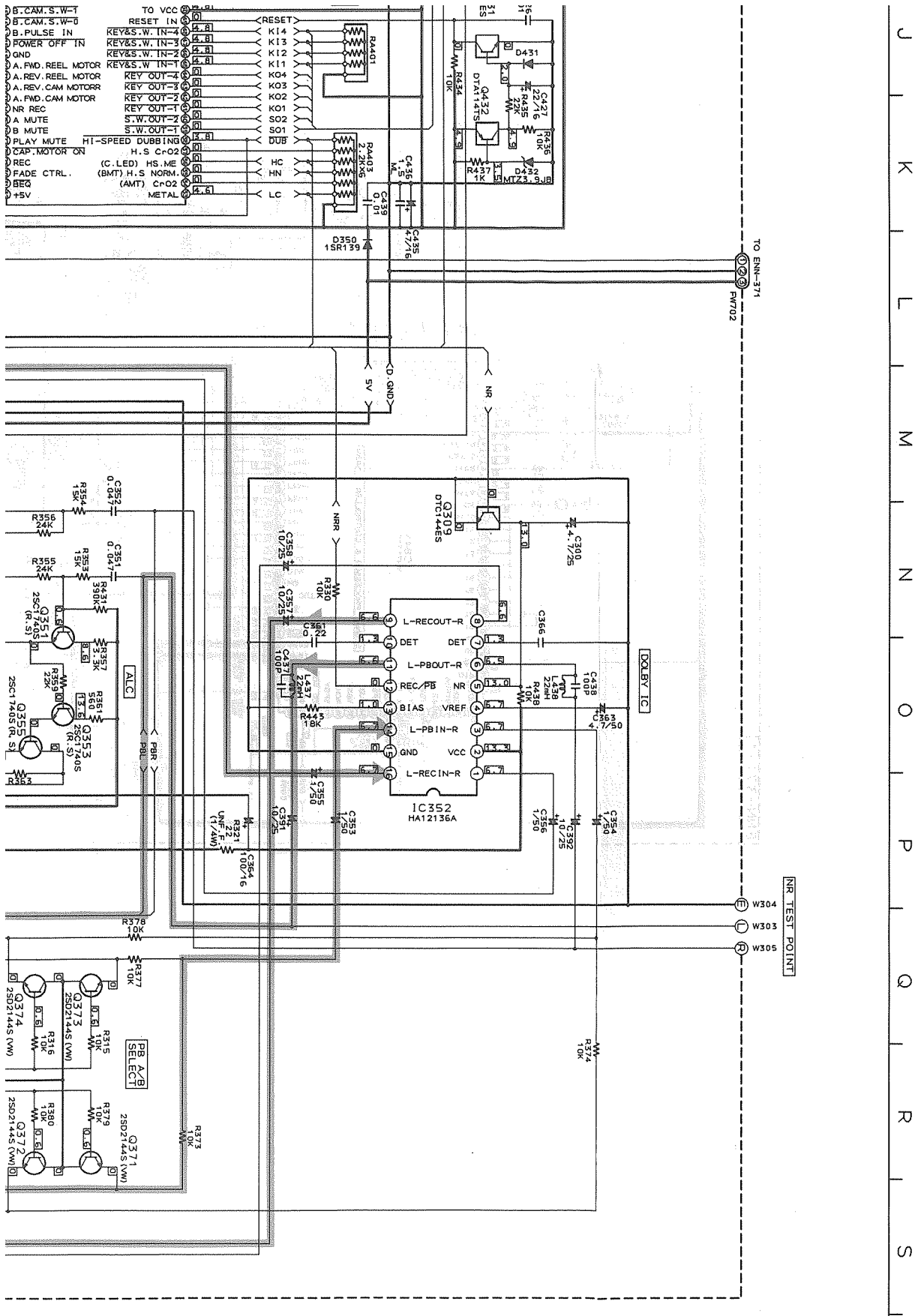


| | | |
|--|-------|------------|
| | G, GI | OTHER AREA |
| | USED | SHORT |

XT-550RBK

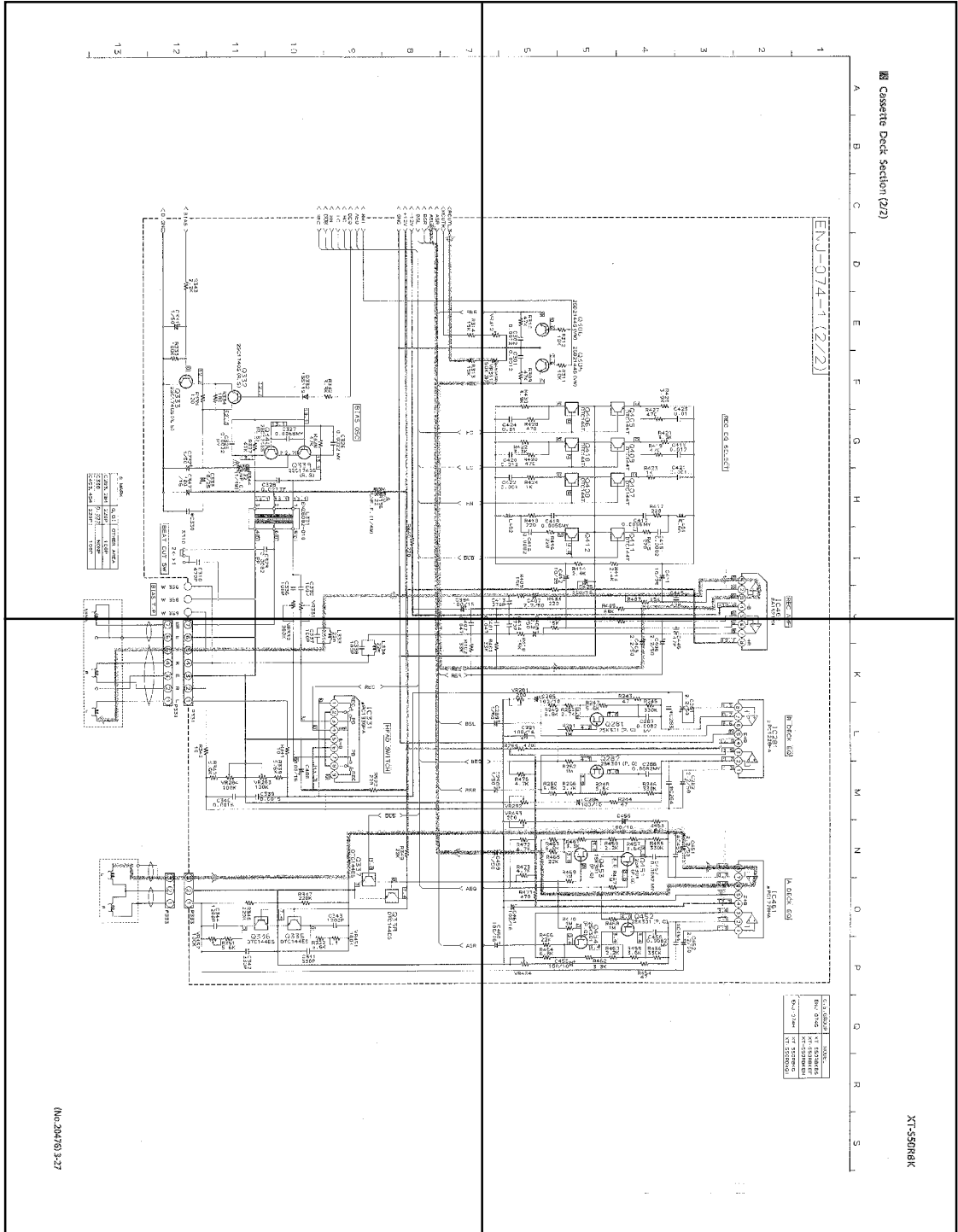
Notes:

1. indicates + B power supply.
2. indicates - B power supply.
3. indicates MAIN signal path.
4. indicates Record signal path.
5. When replacing the parts in the darkened are () and those marked with , be sure to use the designated parts to ensure safety.
6. This is the standard circuit diagram. The design and contents are subject to change without notice.



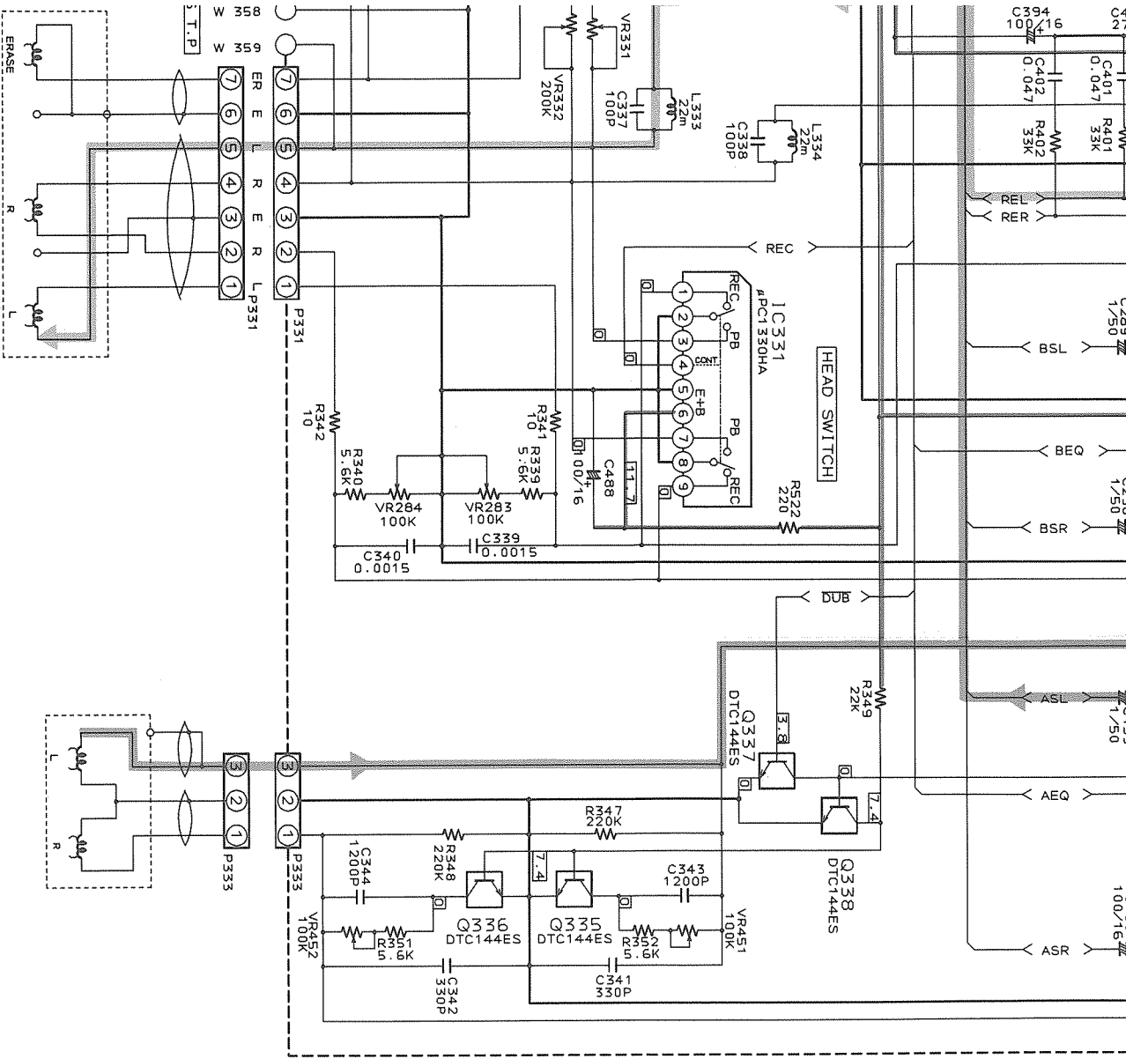
P3-27-a

P3-27-b



P3-27-c

P3-27-d

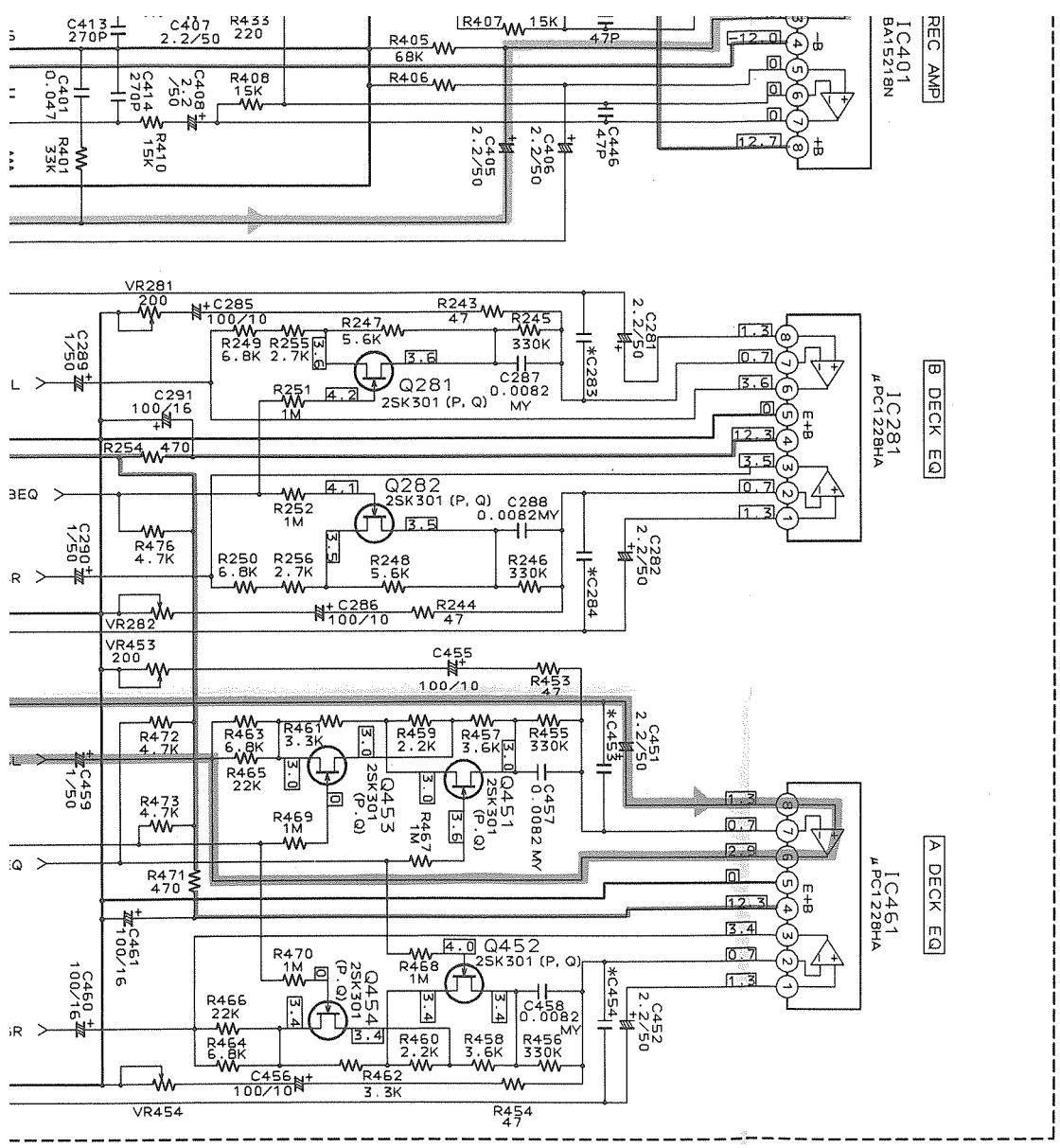


(No.20476) 3-27

XT-S50RBK

J K L M N O P Q R S

| C. B. GROUP | MODEL |
|-------------|---|
| ENJ-074G | XT-S50RBKBS XT-S50RBKEF XT-S50RBKEN |
| ENJ-074H | XT-S50RBKGG XT-S50RBKGI |



RX-S50RBK

< PARTS LIST >

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

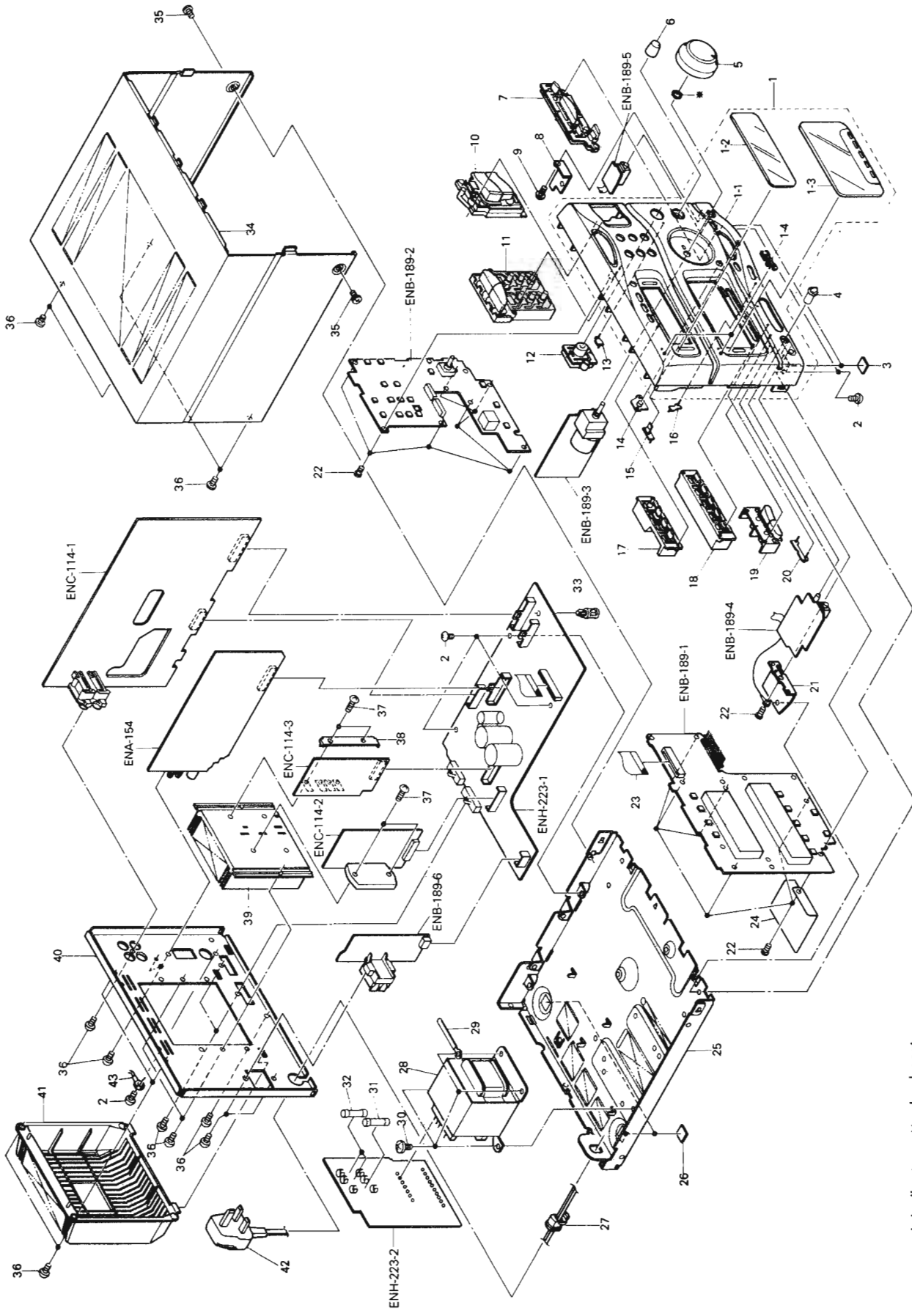
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General Exploded View and Parts List

Symbol No.

| | | | |
|---|---|---|---|
| M | 1 | M | M |
|---|---|---|---|



■ Parts List

Symbol No.

| | | | |
|---|---|---|---|
| M | 1 | M | M |
|---|---|---|---|

| ⚠ | Item | Part Number | Part Name | Q'ty | Description | Areas |
|---|------|-----------------|-------------------|------|-------------------------------|-------|
| | 1 | EFP-RX550RBKE(S | FRONT PANEL ASSY | 1 | | |
| | 1-1 | E102684-019SM | FRONT PANEL | 1 | | |
| | 1-2 | E308421-001SM | WINDOW SCREEN | 1 | | |
| | 1-3 | E308423-005SM | WINDOW SCREEN | 1 | | |
| | 1-4 | E406971-221 | JVC MARK | 2 | | |
| | 2 | SB5G3008CC | SCREW | 5 | | |
| | | SB5G3008CC | SCREW | 1 | | G |
| | | SB5G3008CC | SCREW | 1 | | GI |
| | 3 | E75896-001 | SPACER | 2 | FRONT FOOT | |
| | 4 | E407233-002 | KNOB | 1 | | |
| | 5 | E308414-001SS | VOLUME KNOB ASSY | 1 | | |
| | 6 | E75737-008 | KNOB | 1 | | |
| | 7 | E207794-001SM | PUSH BUTTON | 1 | | |
| | 8 | E408268-001 | BRACKET | 1 | | |
| | 9 | E407098-001 | SPECIAL SCREW | 1 | | |
| | 10 | E207858-004SM | PUSH BUTTON ASSY | 1 | | |
| | 11 | E207788-002SM | PUSH BUTTON | 1 | | |
| | 12 | E308428-001SM | PUSH BUTTON | 1 | | |
| | 13 | E407439-001SS | INDICATOR | 1 | | |
| | 14 | E407431-001SM | REMOTE LENS | 1 | | |
| | 15 | E407437-001SS | INDICATOR | 1 | | |
| | 16 | E407440-001SS | INDICATOR | 1 | | |
| | 17 | E308425-001SM | PUSH BUTTON | 1 | | |
| | 18 | E308426-001SM | PUSH BUTTON | 1 | | |
| | 19 | E308427-001SM | PUSH BUTTON | 1 | | |
| | 20 | E407438-001SS | INDICATOR | 1 | | |
| | 21 | E407580-001SM | BRACKET | 1 | | |
| | 22 | SDSF2608Z | SCREW | 14 | | |
| | 23 | EWR629K-22TTJ3 | FLAT WIRE | 1 | FW901 | |
| | 24 | E308547-002 | SHIELD PLATE ASSY | 1 | | |
| | 25 | E102616-004SS | CHASSIS BASE | 1 | | |
| | 26 | E75896-006 | FELT SPACER | 2 | REAR FOOT | |
| ⚠ | 27 | QHS3876-162BS | CORD STOPPER | 1 | | BS |
| ⚠ | | QHS3876-162 | CORD STOPPER | 1 | | EF |
| ⚠ | | QHS3876-162 | CORD STOPPER | 1 | | EN |
| ⚠ | | QHS3876-162 | CORD STOPPER | 1 | | G |
| ⚠ | | QHS3876-162 | CORD STOPPER | 1 | | GI |
| ⚠ | 28 | ETP1100-46EAJBS | POWER TRANSFORMER | 1 | T001 | BS |
| ⚠ | | ETP1100-46EAJ | POWER TRANSFORMER | 1 | T001 | EF |
| ⚠ | | ETP1100-46EAJ | POWER TRANSFORMER | 1 | T001 | EN |
| ⚠ | | ETP1100-46EAJ | POWER TRANSFORMER | 1 | T001 | G |
| ⚠ | | ETP1100-46EAJ | POWER TRANSFORMER | 1 | T001 | GI |
| | 29 | E407469-001SS | WIRE CLAMP | 1 | | |
| | 30 | E65389-004 | SPECIAL SCREW | 4 | | |
| ⚠ | 31 | QMF51E2-1R0J1BS | FUSE | 1 | F001 (T1.0A / 250V) | BS |
| ⚠ | | QMF51E2-1R0J1 | FUSE | 1 | F001 (T1.0A / 250V) | EF |
| ⚠ | | QMF51E2-1R0J1 | FUSE | 1 | F001 (T1.0A / 250V) | EN |
| ⚠ | | QMF51E2-1R0J1 | FUSE | 1 | F001 (T1.0A / 250V) | G |
| ⚠ | | QMF51E2-1R0J1 | FUSE | 1 | F001 (T1.0A / 250V) | GI |
| ⚠ | 32 | QMF51E2-1R2J1BS | FUSE | 2 | F101 , F102 (T1.25A / 250V) | BS |
| ⚠ | | QMF51E2-1R25 | FUSE | 2 | F101 , F102 (T1.25A / 250V) | EF |
| ⚠ | | QMF51E2-1R25 | FUSE | 2 | F101 , F102 (T1.25A / 250V) | EN |
| ⚠ | | QMF51E2-1R25 | FUSE | 2 | F101 , F102 (T1.25A / 250V) | G |
| ⚠ | | QMF51E2-1R25 | FUSE | 2 | F101 , F102 (T1.25A / 250V) | GI |
| | 33 | E308544-001 | FASTENER | 1 | | |

RX-S50RBK

| ⚠ | Item | Part Number | Part Name | Q'ty | Description | Areas |
|---|------|----------------|---------------|------|-------------|-------|
| | 34 | E207787-221 | METAL COVER | 1 | | |
| | 35 | SDSG3006M | SCREW | 2 | | |
| | 36 | E73273-003 | SPECIAL SCREW | 16 | | |
| | 37 | SBSG3014CC | SCREW | 4 | | |
| | 38 | E407434-001SM | LEAF SPRING | 1 | | |
| | 39 | E308420-002SM | HEAT SINK | 1 | | |
| | 40 | E207785-031SM | REAR PANEL | 1 | | EF |
| | | E207785-031SM | REAR PANEL | 1 | | EN |
| | | E207785-031SM | REAR PANEL | 1 | | G |
| | | E207785-031SM | REAR PANEL | 1 | | GI |
| | | E207785-032SM | REAR PANEL | 1 | | BS |
| ⚠ | 41 | E207356-001SM | REAR COVER | 1 | | |
| ⚠ | 42 | QMP5530-0085BS | POWER CORD | 1 | | BS |
| ⚠ | | QMP3900-200 | POWER CORD | 1 | | EF |
| ⚠ | | QMP3900-200 | POWER CORD | 1 | | EN |
| ⚠ | | QMP3900-200 | POWER CORD | 1 | | G |
| ⚠ | | QMP3900-200 | POWER CORD | 1 | | GI |
| | 43 | 52868-3 | LUG | 1 | | G |
| | | 52868-3 | LUG | 1 | | GI |
| | - | QZL1031-101 | LABEL | 1 | | EF |
| | - | E70027-001 | LABEL | 1 | | EN |
| | - | E407619-027 | FTZ LABEL | 1 | | G |
| | - | E75040-041 | GI LABEL | 1 | | GI |

⚠ SAFETY PARTS

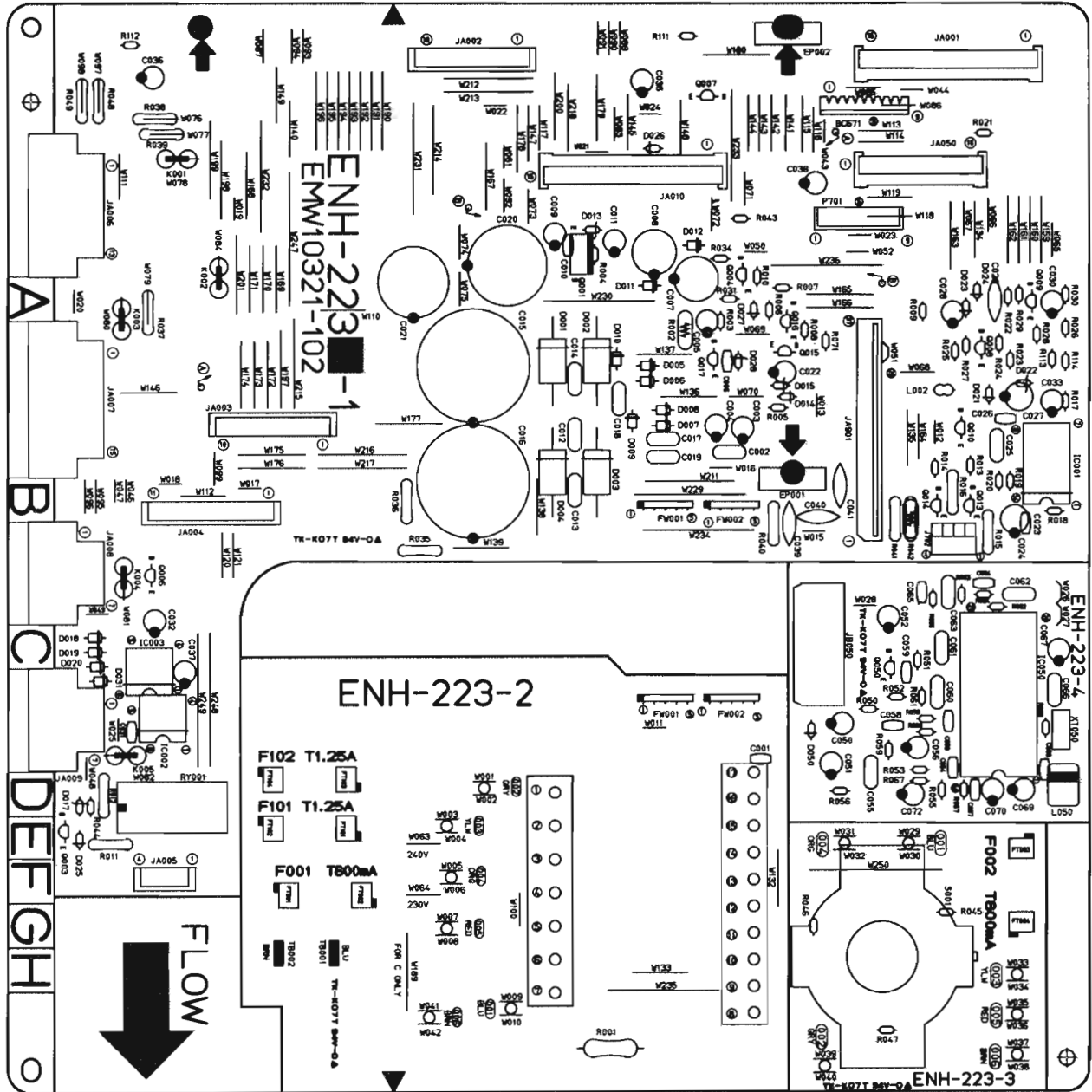
The Marks for Designated Areas

BS the U.K. EN Scandinavia EF Continental Europe
 G Germany GI Italy
 No mark indicates all areas.

Printed Circuit Board Ass'y and Parts List

■ ENH-223 □ Main & Power Primary PC Board Ass'y

Note : ENH-223 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

| PC Board Ass'y | Version | Designated Areas |
|----------------|----------|-----------------------------------|
| ENH-223 □ | EN EF | Scandinavia Continental Europe |
| ENH-223 □ BS | BS | the U.K. |
| ENH-223 □ K | G GI | Germany Italy |

Transistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|-----------------|------------------|------|
| | Q001 | 2SB1357 (E, F) | SI. TRANSISTROHM | |
| | Q003 | 2SC1740S (R, S) | SI. TRANSISTROHM | |
| | Q004 | DTA144ES | DIGITAL TRAROHM | |
| | Q008 | 2SD2144S (VW) | SI. TRANSISTROHM | |
| | Q009 | 2SC1740S (R, S) | SI. TRANSISTROHM | |
| | Q010 | DTA144ES | DIGITAL TRAROHM | |
| | Q013 | 2SD2144S (VW) | SI. TRANSISTROHM | |
| | Q014 | 2SD2144S (VW) | SI. TRANSISTROHM | |
| | Q015 | DTC114YS | DIGITAL TRAROHM | |
| | Q016 | DTC114YS | DIGITAL TRAROHM | |
| | Q017 | 2SC1741AS (QR) | SI. TRANSISTROHM | |

Δ : ISIA FIBRE OPTIC PARTS

RX-S50RBK

I.C.s

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|-------------|-------------------------|------|
| | IC001 | XR1097CP | I.C.(MONO-ANEXAR JAPAN) | |

Δ ISIAFETY PARTS

Diodes

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|-------------|---------------------|------|
| Δ | D001 | 30DL2FC | SI.DIODE NIHONINTER | |
| Δ | D002 | 30DL2FC | SI.DIODE NIHONINTER | |
| Δ | D003 | 30DL2FC | SI.DIODE NIHONINTER | |
| Δ | D004 | 30DL2FC | SI.DIODE NIHONINTER | |
| | D005 | 1SR139-200 | SI.DIODE ROHM | |
| | D006 | 1SR139-200 | SI.DIODE ROHM | |
| | D007 | 1SR139-200 | SI.DIODE ROHM | |
| | D008 | 1SR139-200 | SI.DIODE ROHM | |
| | D009 | 1SR139-200 | SI.DIODE ROHM | |
| | D010 | 1SR139-200 | SI.DIODE ROHM | |
| | D011 | 1SR139-200 | SI.DIODE ROHM | |
| | D012 | 1SR139-200 | SI.DIODE ROHM | |
| | D013 | MTZ30JC | ZENER DIODEROHM | |
| | D014 | 1SS119 | SI.DIODE | |
| | D015 | MTZ5.1JC | ZENER DIODEROHM | |
| | D017 | MTZ8.2JC | ZENER DIODEROHM | |
| | D021 | 1SS119 | SI.DIODE | |
| | D022 | MTZ5.1JC | ZENER DIODEROHM | |
| | D023 | 1SS119 | SI.DIODE | |
| | D025 | 1SS119 | SI.DIODE | |
| | D026 | 1SS119 | SI.DIODE | |
| | D027 | 1SS119 | SI.DIODE | |
| | D028 | MTZ5.6JC | ZENER DIODEROHM | |

Δ ISIAFETY PARTS

Capacitors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|-----------------------------|------|
| | C002 | QFVB1HJ-104 | 0.1MF 50V THIN FILM CA | |
| | C003 | QETB1HM-106 | 10MF 50V E.CAPACITO R | |
| | C004 | QETB1HM-106 | 10MF 50V E.CAPACITO R | |
| | C005 | QETB1HM-106 | 10MF 50V E.CAPACITO R | |
| | C006 | QCVB1CM-103Y | 0.01MF 16V CER.CAPACI TO | |
| | C007 | QETB1HM-227 | 220MF 50V E.CAPACITO R | |
| | C008 | QETB1HM-227 | 220MF 50V E.CAPACITO R | |
| | C009 | QETB1HM-226E | 22MF 50V E.CAPACITO R | |
| | C010 | QCGB1HK-102 | 1000PF 50V CER.CAPACI TO | |
| | C011 | QETB1HM-226E | 22MF 50V E.CAPACITO R | |
| | C012 | QFVB2AJ-104 | 0.1MF 100V THIN FILM CA | |
| | C013 | QFN81HJ-104 | 0.1MF 50V METAL.MYLA R | |
| | C014 | QFN81HJ-104 | 0.1MF 50V METAL.MYLA R | |
| | C015 | EEW4208-568E | 5600MF E.CAPACITO R | |
| | C016 | EEW4208-568E | 5600MF E.CAPACITO R | |
| | C017 | QFVB1HJ-104 | 0.1MF 50V THIN FILM CA | |
| | C018 | QFVB1HJ-104 | 0.1MF 50V THIN FILM CA | |
| | C019 | QFVB1HJ-104 | 0.1MF 50V THIN FILM CA | |
| | C020 | QETB1VM-338 | 3300MF 35V AL E.CAPAC IT | |
| | C021 | QETB1VM-228N | 2200MF 35V E.CAPACITO R | |
| | C022 | QETB1HM-225 | 2.2MF 50V E.CAPACITO R | |
| | C023 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI TO | |
| | C024 | QETB1AM-107 | 100MF 10V AL E.CAPAC IT | |
| | C025 | QFLB1HJ-102 | 1000PF 50V MYLAR CAPA CI | |
| | C026 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI TO | |
| | C027 | QETB1AM-107 | 100MF 10V AL E.CAPAC IT | |
| | C028 | QCF21HP-473A | 0.047MF 50V CER.CAPACI TO | |
| | C029 | QETB1HM-105 | 1MF 50V AL E.CAPAC IT | |
| | C030 | QETB1EM-106 | 10MF 25V AL E.CAPAC IT | |
| | C033 | QETB1EM-106 | 10MF 25V AL E.CAPAC IT | |
| | C039 | QCY31HK-103Z | 0.01MF 50V CER.CAPACI TO BS | |
| | C039 | QCY31HK-103Z | 0.01MF 50V CER.CAPACI TO EF | |
| | C039 | QCY31HK-103Z | 0.01MF 50V CER.CAPACI TO EN | |
| | C042 | QCY31HK-103Z | 0.01MF 50V CER.CAPACI TO BS | |
| | C042 | QCY31HK-103Z | 0.01MF 50V CER.CAPACI TO EF | |
| | C042 | QCY31HK-103Z | 0.01MF 50V CER.CAPACI TO EN | |

Δ ISIAFETY PARTS

Resistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|----------------|----------------------|------|
| Δ | R002 | PTH61G25AR4R7M | FUSIBLE RE | SI |
| | R003 | QRD167J-223 | 22K 1/6W CARBON RES | IS |
| | R004 | QRD167J-332 | 3.3K 1/6W CARBON RES | IS |
| | R005 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R006 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R007 | QRD167J-102 | 1K 1/6W CARBON RES | IS |
| | R008 | QRD167J-102 | 1K 1/6W CARBON RES | IS |
| | R009 | QRD167J-152 | 1.5K 1/6W CARBON RES | IS |
| | R010 | QRD167J-222 | 2.2K 1/6W CARBON RES | IS |
| Δ | R011 | QRZ0077-271 | 270 1/4W FUSIBLE RE | SI |

Δ ISIAFETY PARTS

Resistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|------------------------|------|
| Δ | R012 | QRD14CJ-271S | 270 1/4W UNF.CARBON R | |
| | R013 | QRD167J-272 | 2.7K 1/6W CARBON RES | IS |
| | R014 | QRD167J-272 | 2.7K 1/6W CARBON RES | IS |
| Δ | R015 | QRD14CJ-681S | 680 1/4W UNF.CARBON R | |
| Δ | R016 | QRD14CJ-681S | 680 1/4W UNF.CARBON R | |
| | R017 | QRD167J-223 | 22K 1/6W CARBON RES | IS |
| | R018 | QRD167J-223 | 22K 1/6W CARBON RES | IS |
| | R019 | QRD167J-563 | 56K 1/6W CARBON RES | IS |
| | R020 | QRD167J-152 | 1.5K 1/6W CARBON RES | IS |
| | R021 | QRD161J-331 | 330 1/6W CARBON RES | IS |
| | R022 | QRD161J-512 | 5.1K 1/6W CARBON RES | IS |
| | R023 | QRD167J-562 | 5.6K 1/6W CARBON RES | IS |
| | R024 | QRD167J-473 | 47K 1/6W CARBON RES | IS |
| | R025 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R026 | QRD161J-273 | 27K 1/6W CARBON RES | IS |
| | R027 | QRD167J-104 | 100K 1/6W CARBON RES | IS |
| | R028 | QRD167J-102 | 1K 1/6W CARBON RES | IS |
| | R029 | QRD161J-204 | 200K 1/6W CARBON RES | IS |
| | R030 | QRD167J-224 | 220K 1/6W CARBON RES | IS |
| | R031 | QRD167J-222 | 2.2K 1/6W CARBON RES | IS |
| | R034 | QRD167J-472 | 4.7K 1/6W CARBON RES | IS |
| | R035 | QRD12CJ-331S | 330 1/2W R.NETWORK | |
| | R036 | QRD12CJ-331S | 330 1/2W R.NETWORK | |
| Δ | R041 | QRZ0077-4R7 | 4.7 1/4W FUSE RESIS TO | |
| Δ | R042 | QRD14CJ-6R8S | 6.8 1/4W UNF.CARBON R | |
| Δ | R043 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| Δ | R048 | QRD14CJ-4R7S | 4.7 1/4W UNF.CARBON R | |
| | R071 | QRD167J-222 | 2.2K 1/6W CARBON RES | IS |

Δ ISIAFETY PARTS

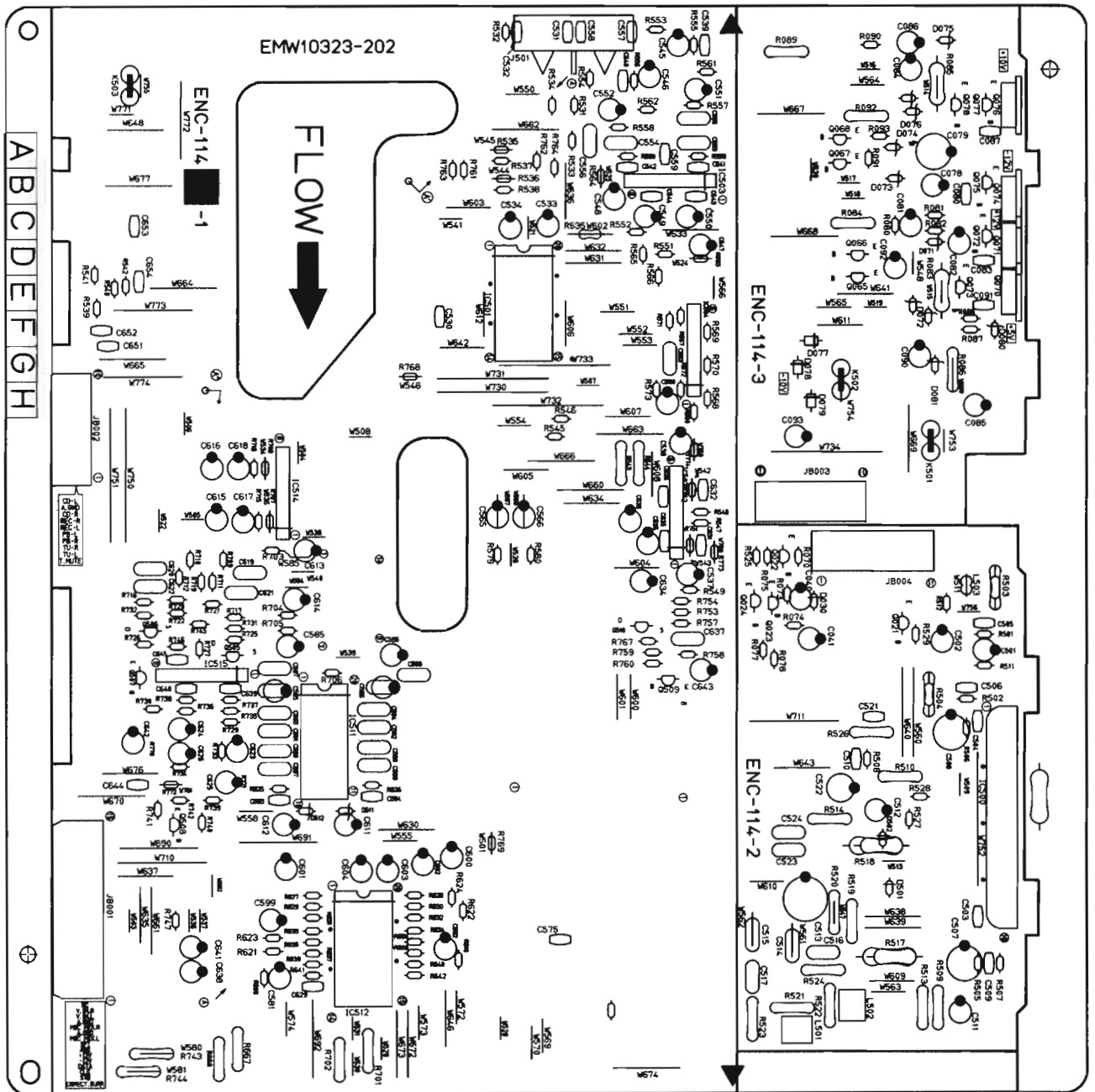
Others

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|--------------|-------------------------|------|
| | | QHX2075-001 | TIE BAND | |
| | | E67132-T1R0 | T1R0 FUSE LABEL | |
| | | QWE350-14RR | VINYL WIRE | |
| | | QWE351-18RR | VINYL WIRE | |
| | J702 | EMV7122-004 | CONNECT TERMINAL(4PIN) | |
| | K002 | ENZ8101-007 | INDUCTOR | G |
| | K002 | ENZ8101-007 | INDUCTOR | GI |
| | K006 | ENZ8101-007 | INDUCTOR | G |
| | K006 | ENZ8101-007 | INDUCTOR | GI |
| | L002 | EQL4007-1R0T | INDUCTOR | |
| | P701 | EMV5142-905 | CONNECT TERMINAL(5PIN) | |
| | BC671 | EWS296-0118 | SOCKET WIRE ASSY(6PIN) | |
| | EP001 | E65396-003 | EARTH PLATE | BS |
| | EP001 | E65396-003 | EARTH PLATE | EF |
| | EP001 | E65396-003 | EARTH PLATE | EN |
| | EP002 | E65396-003 | EARTH PLATE | |
| | FT001 | VMZ0087-001Z | FUSE HOLDER | |
| | FT002 | VMZ0087-001Z | FUSE HOLDER | |
| | FT101 | VMZ0087-001Z | FUSE HOLDER | |
| | FT102 | VMZ0087-001Z | FUSE HOLDER | |
| | FT103 | VMZ0087-001Z | FUSE HOLDER | |
| | FT104 | VMZ0087-001Z | FUSE HOLDER | |
| | FW001 | EWR358-16SST | FLAT WIRE ASSY(5PIN) | |
| | FW002 | EWR358-16SST | FLAT WIRE ASSY(5PIN) | |
| | JA001 | EMV5140-015 | CONNECT TERMINAL(15PIN) | |
| | JA002 | EMV5125-010 | MALE CONNECTOR(10PIN) | |
| | JA003 | EMV5125-010 | MALE CONNECTOR(10PIN) | |
| | JA004 | EMV5125-011 | MALE CONNECTOR(11PIN) | |
| | JA005 | EMV5125-004 | CONNECT TERMINAL(4PIN) | |
| | JA006 | EMV7127-013 | CONNECT TERMINAL(13PIN) | |
| | JA007 | EMV7127-015 | FEMALE CONNECTOR(15PIN) | |
| | JA010 | EMV5140-015 | CONNECT TERMINAL(15PIN) | |
| | JA901 | EMV7123-029 | MALE CONNECTOR(29PIN) | |
| | RY001 | ESK7D24-2120 | RELAY | |
| | TB001 | EMZ4001-001 | TAB | |
| | TB002 | EMZ4001-001 | TAB | |

Δ ISIAFETY PARTS

■ ENC-114 □ Selector, Amplifier & Regulator PC Board Ass'y

Note : ENC-114 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

| PC Board Ass'y | Version | Designated Areas |
|------------------------------------|----------------|---|
| ENC-114 <input type="checkbox"/> D | BS EN EF | the U.K. Scandinavia Continental Europe |
| ENC-114 <input type="checkbox"/> E | G GI | Germany Italy |

Transistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|---------------|-----------------|------|
| | Q021 | DTC144ES | DIGITAL TRAROHM | |
| | Q022 | 2SC1740S(R,S) | SI.TRANSISTROHM | |
| | Q023 | 2SC1740S(R,S) | SI.TRANSISTROHM | |
| | Q024 | 2SA733A(P,K) | SI.TRANSIST | |
| | Q065 | DTC144ES | DIGITAL TRAROHM | |
| | Q066 | DTA114YS | DIGITAL TRAROHM | |
| | Q067 | DTA144ES | DIGITAL TRAROHM | |
| | Q068 | DTC114YS | DIGITAL TRAROHM | |
| | Q070 | 2SD2061(E,F) | SI.TRANSIST | |
| | Q071 | 2SD2061(E,F) | SI.TRANSIST | |
| | Q072 | 2SC1740S(R,S) | SI.TRANSISTROHM | |
| | Q074 | 2SB1187(E,F) | SI.TRANSIST | |
| | Q075 | 2SA564A(Q,R) | SI.TRANSIST | |
| | Q076 | 2SD2061(E,F) | SI.TRANSIST | |
| | Q077 | 2SC1740S(R,S) | SI.TRANSISTROHM | |

Δ : ISIA.FICTIV.PARTIS

Transistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|---------------|-------------------|------|
| | Q505 | 2SK301(P,Q) | F.E.T. MATSUSHITA | |
| | Q506 | 2SK301(P,Q) | F.E.T. MATSUSHITA | |
| | Q507 | DTA144ES | DIGITAL TRAROHM | |
| | Q508 | 2SC1740S(R,S) | SI.TRANSISTROHM | |
| | Q509 | DTA144ES | DIGITAL TRAROHM | |
| | Q510 | 2SK301(P,Q) | F.E.T. MATSUSHITA | |

Δ SAFETY PARTS

I.C.s

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|-------------|-----------------------|------|
| | IC500 | STK4141MK5 | I.C(HYBRID)SANYO | |
| | IC501 | TC9162N | I.C(DIGI-MOTOSHIBA | |
| | IC502 | VC4580L | I.C(MONO-ANDAINICHI | |
| | IC503 | VC4580LD | I.C(MONO-ANDAINICHI | |
| | IC504 | BA15218N | I.C(MONO-ANROHM | |
| | IC511 | M5243P12 | I.C(MONO-ANMITSUBISHI | |
| | IC512 | TC9163N | I.C(DIGI-MOTOSHIBA | |
| | IC514 | BA15218N | I.C(MONO-ANROHM | |
| | IC515 | VC4580L | I.C(MONO-ANDAINICHI | |

Δ SAFETY PARTS

Diodes

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|-------------|-----------------|------|
| | D030 | 1SS119 | SI.DIODE | |
| | D071 | RD13JSB3 | ZENER DIODENEC | |
| | D072 | MTZ13JC | ZENER DIODEROHM | |
| | D073 | MTZ13JC | ZENER DIODEROHM | |
| | D074 | RD13JSB3 | ZENER DIODENEC | |
| | D075 | MTZ11JC | ZENER DIODEROHM | |
| | D076 | MTZ12JC | ZENER DIODEROHM | |
| | D077 | 1SR139-200 | SI.DIODE ROHM | |
| | D078 | 1SR139-200 | SI.DIODE ROHM | |
| | D079 | 1SR139-200 | SI.DIODE ROHM | |
| | D080 | MTZ6.8JC | ZENER DIODEROHM | |
| | D081 | MTZ6.2JC | ZENER DIODEROHM | |
| | D501 | 1SS119 | SI.DIODE | |
| | D502 | 1SS119 | SI.DIODE | |
| | D511 | MTZ6.2JC | ZENER DIODEROHM | |
| | D512 | MTZ6.2JC | ZENER DIODEROHM | |

Δ SAFETY PARTS

Capacitors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|---------------------------|------|
| | C040 | QETB1CM-226 | 22MF 16V E.CAPACITO R | |
| | C041 | QETB1AM-476 | 47MF 10V E.CAPACITO R | |
| | C078 | QETB1EM-226 | 22MF 25V E.CAPACITO R | |
| | C079 | QETB1EM-227 | 220PF 25V AL E.CAPAC IT | |
| | C080 | QCVB1CM-103Y | 0.01MF 16V CER.CAPACI TO | |
| | C081 | QETB1EM-226 | 22MF 25V E.CAPACITO R | |
| | C082 | QETB1EM-226 | 22MF 25V E.CAPACITO R | |
| | C083 | QCVB1CM-103Y | 0.01MF 16V CER.CAPACI TO | |
| | C084 | QETB1EM-226 | 22MF 25V E.CAPACITO R | |
| | C085 | EEZ5009-106 | 10MF AL E.CAPAC IT | |
| | C086 | QETB1EM-226 | 22MF 25V E.CAPACITO R | |
| | C087 | QCVB1CM-103Y | 0.01MF 16V CER.CAPACI TO | |
| | C090 | QETB1EM-226 | 22MF 25V E.CAPACITO R | |
| | C091 | QCVB1CM-103Y | 0.01MF 16V CER.CAPACI TO | |
| | C092 | QETB1EM-226 | 22MF 25V E.CAPACITO R | |
| | C093 | QETB1EM-226 | 22MF 25V E.CAPACITO R | |
| | C501 | EEZ2505-226 | 22MF AL E.CAPAC IT | |
| | C502 | EEZ2505-226 | 22MF AL E.CAPAC IT | |
| | C503 | QCBB1HK-561Y | 560PF 50V CER.CAPACI TO | |
| | C504 | QCBB1HK-561Y | 560PF 50V CER.CAPACI TO | |
| | C505 | QCBB1HK-101Y | 100PF 50V CER.CAPACI TO | |
| | C506 | QCBB1HK-101Y | 100PF 50V CER.CAPACI TO | |
| | C507 | EET2501-107E | 100MF AL E.CAPAC IT | |
| | C508 | EET2501-107E | 100MF AL E.CAPAC IT | |
| | C509 | QCT30CH-100Y | 10PF 50V CER.CAPACI TO | |
| | C510 | QCT30CH-100Y | 10PF 50V CER.CAPACI TO | |
| | C511 | QETB1HM-226E | 22MF 50V E.CAPACITO R | |
| | C512 | QETB1HM-226E | 22MF 50V E.CAPACITO R | |
| | C513 | QETB1HM-107 | 100MF 50V E.CAPACITO R | |
| | C514 | QFV81HJ-104 | 0.1MF 50V THIN FILM CA | |
| | C515 | QFV81HJ-104 | 0.1MF 50V THIN FILM CA | |
| | C516 | QFV81HJ-104 | 0.1MF 50V THIN FILM CA | |
| | C517 | QFV81HJ-104 | 0.1MF 50V THIN FILM CA | |
| | C521 | QCBB1HK-681Y | 680PF 50V CER.CAPACI TO G | |
| | C521 | QCBB1HK-681Y | 680PF 50V CER.CAPACI TO G | |
| | C522 | QETB1HM-106 | 10MF 50V E.CAPACITO R | |
| | C523 | QFLB1HJ-473 | 0.047MF 50V MYLAR CAPA CI | |
| | C524 | QFLB1HJ-473 | 0.047MF 50V MYLAR CAPA CI | |
| | C530 | QCBB1HK-331Y | 330PF 50V CER.CAPACI TO | |
| | C531 | QCBB1HK-331Y | 330PF 50V CER.CAPACI TO G | |

Δ SAFETY PARTS

Capacitors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|------------------------------|------|
| | C531 | QCBB1HK-331Y | 330PF 50V CER.CAPACI TO GI | |
| | C532 | QCBB1HK-331Y | 330PF 50V CER.CAPACI TO G | |
| | C532 | QCBB1HK-331Y | 330PF 50V CER.CAPACI TO GI | |
| | C533 | EEZ2505-476 | 47MF AL E.CAPAC IT | |
| | C534 | EEZ2505-476 | 47MF AL E.CAPAC IT | |
| | C535 | QETB1HM-475E | 4.7MF 50V E.CAPACITO R | |
| | C536 | QETB1HM-475E | 4.7MF 50V E.CAPACITO R | |
| | C537 | QETB1HM-475E | 4.7MF 50V E.CAPACITO R | |
| | C538 | QETB1HM-475E | 4.7MF 50V E.CAPACITO R | |
| | C539 | QCBB1HK-101Y | 100PF 50V CER.CAPACI TO | |
| | C540 | QCBB1HK-101Y | 100PF 50V CER.CAPACI TO | |
| | C543 | QCBB1HK-101Y | 100PF 50V CER.CAPACI TO | |
| | C544 | QCBB1HK-101Y | 100PF 50V CER.CAPACI TO | |
| | C545 | QETB1HM-475E | 4.7MF 50V E.CAPACITO R | |
| | C546 | QETB1HM-475E | 4.7MF 50V E.CAPACITO R | |
| | C547 | QETB1HM-475E | 4.7MF 50V E.CAPACITO R | |
| | C548 | QETB1HM-475E | 4.7MF 50V E.CAPACITO R | |
| | C549 | QETB1EM-476 | 47MF 25V AL E.CAPAC IT | |
| | C550 | QETB1EM-476 | 47MF 25V AL E.CAPAC IT | |
| | C551 | QETB1EM-476 | 47MF 25V AL E.CAPAC IT | |
| | C552 | QETB1EM-476 | 47MF 25V AL E.CAPAC IT | |
| | C553 | QFLB1HJ-182 | 1800PF 50V MYLAR CAPA CI | |
| | C554 | QFLB1HJ-182 | 1800PF 50V MYLAR CAPA CI | |
| | C555 | QFLB1HJ-682 | 6800PF 50V MYLAR CAPA CI | |
| | C556 | QFLB1HJ-682 | 6800PF 50V MYLAR CAPA CI | |
| | C557 | QCBB1HK-561Y | 560PF 50V CER.CAPACI TO G | |
| | C557 | QCBB1HK-561Y | 560PF 50V CER.CAPACI TO GI | |
| | C558 | QCBB1HK-561Y | 560PF 50V CER.CAPACI TO G | |
| | C558 | QCBB1HK-561Y | 560PF 50V CER.CAPACI TO GI | |
| | C559 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI TO G | |
| | C559 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI TO GI | |
| | C560 | QETB1HM-475E | 4.7MF 50V E.CAPACITO R | |
| | C563 | QFLB1HJ-683 | 0.068MF 50V MYLAR CAPA CI | |
| | C581 | QETB1EM-106 | 10MF 25V AL E.CAPAC IT | |
| | C582 | QETB1EM-106 | 10MF 25V AL E.CAPAC IT | |
| | C583 | QCGB1HK-821 | 820PF 50V CER.CAPACI TO | |
| | C584 | QCGB1HK-821 | 820PF 50V CER.CAPACI TO | |
| | C585 | QETB1EM-106 | 10MF 25V AL E.CAPAC IT | |
| | C586 | QETB1EM-106 | 10MF 25V AL E.CAPAC IT | |
| | C587 | QFLB1HJ-272 | 2700PF 50V MYLAR CAPA CI | |
| | C588 | QFLB1HJ-272 | 2700PF 50V MYLAR CAPA CI | |
| | C589 | QFLB1HJ-471 | 470PF 50V MYLAR CAPA CI | |
| | C590 | QFLB1HJ-471 | 470PF 50V MYLAR CAPA CI | |
| | C591 | QFLB1HJ-473 | 0.047MF 50V MYLAR CAPA CI | |
| | C592 | QFLB1HJ-473 | 0.047MF 50V MYLAR CAPA CI | |
| | C593 | QFLB1HJ-822 | 8200PF 50V MYLAR CAPA CI | |
| | C594 | QFLB1HJ-822 | 8200PF 50V MYLAR CAPA CI | |
| | C595 | QER51HM-684 | 0.68MF 50V AL E.CAPAC IT | |
| | C596 | QER51HM-684 | 0.68MF 50V AL E.CAPAC IT | |
| | C597 | QFV81HJ-154 | 0.15MF 50V THIN FILM CA | |
| | C598 | QFV81HJ-154 | 0.15MF 50V THIN FILM CA | |
| | C599 | QETB1EM-476 | 47MF 25V AL E.CAPAC IT | |
| | C600 | QETB1EM-476 | 47MF 25V AL E.CAPAC IT | |
| | C601 | QETB1EM-476 | 47MF 25V AL E.CAPAC IT | |
| | C602 | QETB1EM-476 | 47MF 25V AL E.CAPAC IT | |
| | C611 | EEZ2505-476 | 47MF AL E.CAPAC IT | |
| | C612 | EEZ2505-476 | 47MF AL E.CAPAC IT | |
| | C615 | EEZ5009-106 | 10MF AL E.CAPAC IT | |
| | C616 | EEZ5009-106 | 10MF AL E.CAPAC IT | |
| | C617 | QETB1HM-106 | 10MF 50V E.CAPACITO R | |
| | C618 | QETB1HM-106 | 10MF 50V E.CAPACITO R | |
| | C619 | QFV81HJ-393 | 0.039MF 50V THIN FILM CA | |
| | C620 | QFV81HJ-393 | 0.039MF 50V THIN FILM CA | |
| | C621 | QFV81HJ-104 | 0.1MF 50V THIN FILM CA | |
| | C622 | QFV81HJ-104 | 0.1MF 50V THIN FILM CA | |
| | C623 | QER51HM-225G | 2.2MF 50V AL E.CAPAC IT | |
| | C624 | QER51HM-225G | 2.2MF 50V AL E.CAPAC IT | |
| | C625 | EEZ5009-106 | 10MF AL E.CAPAC IT | |
| | C626 | EEZ5009-106 | 10MF AL E.CAPAC IT | |
| | C629 | QCBB1HK-561Y | 560PF 50V CER.CAPACI TO | |
| | C631 | QCSB1HJ-220 | 22PF 50V CER.CAPACI TO | |
| | C632 | QCSB1HJ-220 | 22PF 50V CER.CAPACI TO | |
| | C634 | QETB1EM-106 | 10MF 25V AL E.CAPAC IT | |
| | C635 | QCSB1HJ-470 | 47PF 50V CER.CAPACI TO | |
| | C636 | QCSB1HJ-470 | 47PF 50V CER.CAPACI TO | |
| | C637 | QFLB1HJ-392 | 3900PF 50V MYLAR CAPA CI | |
| | C638 | QEK51HM-105G | 1MF 50V AL E.CAPAC IT | |
| | C639 | QCSB1HJ-220 | 22PF 50V CER.CAPACI TO | |
| | C640 | QCSB1HJ-220 | 22PF 50V CER.CAPACI TO | |
| | C641 | QETB1EM-106 | 10MF 25V AL E.CAPAC IT | |
| | C642 | QETB1EM-106 | 10MF 25V AL E.CAPAC IT | |
| | C643 | QETB1EM-106 | 10MF 25V AL E.CAPAC IT | |
| | C644 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI TO G | |
| | C644 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI TO GI | |
| | C645 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI TO G | |
| | C645 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI TO GI | |
| | C646 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI TO G | |
| | C646 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI TO GI | |
| | C651 | QCBB1HK-331Y | 330PF 50V CER.CAPACI TO | |
| | C652 | QCBB1HK-331Y | 330PF 50V CER.CAPACI TO | |
| | C654 | QCBB1HK-101Y | 100PF 50V CER.CAPACI TO | |

Δ SAFETY PARTS

Resistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|------|---------------|-------------|------|-------------|------|
| | R070 | QRD161J-333 | 33K | 1/6W | CARBON RES | IS |
| | R073 | QRD167J-682 | 6.8K | 1/6W | CARBON RES | IS |
| | R074 | QRD167J-104 | 100K | 1/6W | CARBON RES | IS |
| | R075 | QRD167J-104 | 100K | 1/6W | CARBON RES | IS |
| | R077 | QRD167J-823 | 82K | 1/6W | CARBON RES | IS |
| | R078 | QRD167J-104 | 100K | 1/6W | CARBON RES | IS |
| | R080 | QRD167J-103 | 10K | 1/6W | CARBON RES | IS |
| | R081 | QRD167J-152 | 1.5K | 1/6W | CARBON RES | IS |
| | R082 | QRD167J-471 | 470 | 1/6W | CARBON RES | IS |
| Δ | R084 | QRD14CJ-1R0S | 1 | 1/4W | CARBON RES | IS |
| | R087 | QRD167J-103 | 10K | 1/6W | CARBON RES | IS |
| | R088 | QRD167J-103 | 10K | 1/6W | CARBON RES | IS |
| Δ | R089 | QRD14CJ-1R0S | 1 | 1/4W | CARBON RES | IS |
| | R090 | QRD167J-332 | 3.3K | 1/6W | CARBON RES | IS |
| | R091 | QRD167J-103 | 10K | 1/6W | CARBON RES | IS |
| Δ | R092 | QRD14CJ-2R7S | 2.7 | 1/4W | UNF. CARBON | R |
| | R093 | QRD167J-222 | 2.2K | 1/6W | CARBON RES | IS |
| | R501 | QRD167J-563 | 56K | 1/6W | CARBON RES | IS |
| | R502 | QRD167J-563 | 56K | 1/6W | CARBON RES | IS |
| Δ | R503 | QRD14CJ-471S | 470 | 1/4W | CARBON RES | IS |
| Δ | R504 | QRD14CJ-471S | 470 | 1/4W | CARBON RES | IS |
| | R505 | QRD167J-471 | 470 | 1/6W | CARBON RES | IS |
| | R506 | QRD167J-471 | 470 | 1/6W | CARBON RES | IS |
| | R507 | QRD167J-563 | 56K | 1/6W | CARBON RES | IS |
| | R508 | QRD167J-563 | 56K | 1/6W | CARBON RES | IS |
| Δ | R509 | QRD14CJ-272S | 2.7K | 1/4W | UNF. CARBON | R |
| Δ | R510 | QRD14CJ-272S | 2.7K | 1/4W | UNF. CARBON | R |
| | R511 | QRD167J-102 | 1K | 1/6W | CARBON RES | IS |
| | R512 | QRD167J-102 | 1K | 1/6W | CARBON RES | IS |
| Δ | R513 | QRD14CJ-272S | 2.7K | 1/4W | UNF. CARBON | R |
| Δ | R514 | QRD14CJ-272S | 2.7K | 1/4W | UNF. CARBON | R |
| Δ | R517 | QRX012J-R22AM | 0.22 | 1W | METAL FILM | R |
| Δ | R518 | QRX012J-R22AM | 0.22 | 1W | METAL FILM | R |
| Δ | R519 | QRZ0077-101 | 100 | 1/4W | FUSIBLE RE | SI |
| Δ | R520 | QRZ0077-100 | 10 | 1/4W | FUSIBLE RE | SI |
| Δ | R521 | QRD14CJ-100S | 10 | 1/4W | UNF. CARBON | R |
| Δ | R522 | QRD14CJ-100S | 10 | 1/4W | UNF. CARBON | R |
| Δ | R523 | QRD14CJ-100S | 10 | 1/4W | UNF. CARBON | R |
| Δ | R524 | QRD14CJ-100S | 10 | 1/4W | UNF. CARBON | R |
| Δ | R525 | QRD167J-332 | 3.3K | 1/6W | CARBON RES | IS |
| Δ | R526 | QRD14CJ-100S | 10 | 1/4W | UNF. CARBON | R |
| | R527 | QRD167J-272 | 2.7K | 1/6W | CARBON RES | IS |
| | R528 | QRD167J-272 | 2.7K | 1/6W | CARBON RES | IS |
| | R529 | QRD167J-103 | 10K | 1/6W | CARBON RES | IS |
| | R531 | QRD167J-153 | 15K | 1/6W | CARBON RES | IS |
| | R532 | QRD167J-153 | 15K | 1/6W | CARBON RES | IS |
| | R533 | QRD167J-104 | 100K | 1/6W | CARBON RES | IS |
| | R534 | QRD167J-104 | 100K | 1/6W | CARBON RES | IS |
| | R539 | QRD167J-222 | 2.2K | 1/6W | CARBON RES | IS |
| | R540 | QRD167J-222 | 2.2K | 1/6W | CARBON RES | IS |
| | R541 | QRD167J-392 | 3.9K | 1/6W | CARBON RES | IS |
| | R542 | QRD167J-392 | 3.9K | 1/6W | CARBON RES | IS |
| | R543 | QRD161J-331 | 330 | 1/6W | CARBON RES | IS |
| | R544 | QRD161J-331 | 330 | 1/6W | CARBON RES | IS |
| | R545 | QRD167J-104 | 100K | 1/6W | CARBON RES | IS |
| | R546 | QRD167J-104 | 100K | 1/6W | CARBON RES | IS |
| | R547 | QRD167J-104 | 100K | 1/6W | CARBON RES | IS |
| | R548 | QRD167J-104 | 100K | 1/6W | CARBON RES | IS |
| | R549 | QRD167J-104 | 100K | 1/6W | CARBON RES | IS |
| | R550 | QRD167J-104 | 100K | 1/6W | CARBON RES | IS |
| | R551 | QRD167J-104 | 100K | 1/6W | CARBON RES | IS |
| | R552 | QRD167J-104 | 100K | 1/6W | CARBON RES | IS |
| | R553 | QRD167J-222 | 2.2K | 1/6W | CARBON RES | IS |
| | R554 | QRD167J-222 | 2.2K | 1/6W | CARBON RES | IS |
| | R555 | QRD167J-473 | 47K | 1/6W | CARBON RES | IS |
| | R556 | QRD167J-473 | 47K | 1/6W | CARBON RES | IS |
| | R557 | QRD167J-474 | 470K | 1/6W | CARBON RES | IS |
| | R558 | QRD167J-474 | 470K | 1/6W | CARBON RES | IS |
| | R559 | QRD167J-393 | 39K | 1/6W | CARBON RES | IS |
| | R560 | QRD167J-393 | 39K | 1/6W | CARBON RES | IS |
| | R561 | QRD167J-751 | 750 | 1/6W | CARBON RES | IS |
| | R562 | QRD167J-751 | 750 | 1/6W | CARBON RES | IS |
| | R565 | QRD167J-391 | 390 | 1/6W | CARBON RES | IS |
| | R566 | QRD167J-391 | 390 | 1/6W | CARBON RES | IS |
| | R567 | QRD167J-473 | 47K | 1/6W | CARBON RES | IS |
| | R568 | QRD167J-473 | 47K | 1/6W | CARBON RES | IS |
| | R569 | QRD167J-473 | 47K | 1/6W | CARBON RES | IS |
| | R570 | QRD167J-473 | 47K | 1/6W | CARBON RES | IS |
| | R571 | QRD167J-473 | 47K | 1/6W | CARBON RES | IS |
| | R572 | QRD167J-473 | 47K | 1/6W | CARBON RES | IS |
| | R573 | QRD167J-104 | 100K | 1/6W | CARBON RES | IS |
| | R609 | QRD161J-362 | 3.6K | 1/6W | CARBON RES | IS |
| | R610 | QRD161J-362 | 3.6K | 1/6W | CARBON RES | IS |
| | R621 | QRD161J-752 | 7.5K | 1/6W | CARBON RES | IS |
| | R622 | QRD161J-752 | 7.5K | 1/6W | CARBON RES | IS |
| | R623 | QRD167J-562 | 5.6K | 1/6W | CARBON RES | IS |
| | R624 | QRD167J-562 | 5.6K | 1/6W | CARBON RES | IS |
| | R625 | QRD167J-103 | 10K | 1/6W | CARBON RES | IS |
| | R626 | QRD167J-103 | 10K | 1/6W | CARBON RES | IS |
| | R627 | QRD161J-303Y | 30K | 1/6W | CARBON RES | IS |
| | R628 | QRD161J-303Y | 30K | 1/6W | CARBON RES | IS |
| | R629 | QRD167J-123 | 12K | 1/6W | CARBON RES | IS |
| | R630 | QRD167J-123 | 12K | 1/6W | CARBON RES | IS |
| | R631 | QRD167J-472 | 4.7K | 1/6W | CARBON RES | IS |
| | R632 | QRD167J-472 | 4.7K | 1/6W | CARBON RES | IS |

Δ SAFETY PARTS

Resistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|------|--------------|-------------|------|------------|------|
| | R633 | QRD161J-183 | 18K | 1/6W | CARBON RES | IS |
| | R634 | QRD161J-183 | 18K | 1/6W | CARBON RES | IS |
| | R635 | QRD161J-912 | 9.1K | 1/6W | CARBON RES | IS |
| | R636 | QRD161J-912 | 9.1K | 1/6W | CARBON RES | IS |
| | R637 | QRD167J-243 | 24K | 1/6W | CARBON RES | IS |
| | R638 | QRD167J-243 | 24K | 1/6W | CARBON RES | IS |
| | R639 | QRD167J-562 | 5.6K | 1/6W | CARBON RES | IS |
| | R640 | QRD167J-562 | 5.6K | 1/6W | CARBON RES | IS |
| | R641 | QRD161J-333 | 33K | 1/6W | CARBON RES | IS |
| | R642 | QRD161J-333 | 33K | 1/6W | CARBON RES | IS |
| | R667 | QRD161J-331 | 330 | 1/6W | CARBON RES | IS |
| | R668 | QRD161J-331 | 330 | 1/6W | CARBON RES | IS |
| | R705 | QRD167J-104 | 100K | 1/6W | CARBON RES | IS |
| | R706 | QRD167J-104 | 100K | 1/6W | CARBON RES | IS |
| | R707 | QRD161J-202 | 2K | 1/6W | CARBON RES | IS |
| | R708 | QRD161J-202 | 2K | 1/6W | CARBON RES | IS |
| | R709 | QRD161J-132 | 1.3K | 1/6W | CARBON RES | IS |
| | R710 | QRD161J-132 | 1.3K | 1/6W | CARBON RES | IS |
| | R711 | QRD161J-910Y | 91 | 1/6W | CARBON RES | IS |
| | R712 | QRD161J-910Y | 91 | 1/6W | CARBON RES | IS |
| | R715 | QRD167J-102 | 1K | 1/6W | CARBON RES | IS |
| | R716 | QRD167J-102 | 1K | 1/6W | CARBON RES | IS |
| | R717 | QRD167J-103 | 10K | 1/6W | CARBON RES | IS |
| | R718 | QRD167J-103 | 10K | 1/6W | CARBON RES | IS |
| | R719 | QRD167J-473 | 47K | 1/6W | CARBON RES | IS |
| | R720 | QRD167J-473 | 47K | 1/6W | CARBON RES | IS |
| | R721 | QRD161J-132 | 1.3K | 1/6W | CARBON RES | IS |
| | R722 | QRD161J-132 | 1.3K | 1/6W | CARBON RES | IS |
| | R725 | QRD161J-512 | 5.1K | 1/6W | CARBON RES | IS |
| | R726 | QRD161J-512 | 5.1K | 1/6W | CARBON RES | IS |
| | R727 | QRD161J-105 | 1M | 1/6W | CARBON RES | IS |
| | R729 | QRD161J-122 | 1.2K | 1/6W | CARBON RES | IS |
| | R730 | QRD161J-122 | 1.2K | 1/6W | CARBON RES | IS |
| | R731 | QRD167J-473 | 47K | 1/6W | CARBON RES | IS |
| | R732 | QRD167J-473 | 47K | 1/6W | CARBON RES | IS |
| | R733 | QRD161J-432 | 4.3K | 1/6W | CARBON RES | IS |
| | R734 | QRD161J-432 | 4.3K | 1/6W | CARBON RES | IS |
| | R735 | QRD167J-473 | 47K | 1/6W | CARBON RES | IS |
| | R736 | QRD167J-473 | 47K | 1/6W | CARBON RES | IS |
| | R737 | QRD167J-473 | 47K | 1/6W | CARBON RES | IS |
| | R738 | QRD167J-473 | 47K | 1/6W | CARBON RES | IS |
| | R739 | QRD167J-104 | 100K | 1/6W | CARBON RES | IS |
| | R740 | QRD167J-104 | 100K | 1/6W | CARBON RES | IS |
| | R741 | QRD161J-105 | 1M | 1/6W | CARBON RES | IS |
| | R742 | QRD167J-102 | 1K | 1/6W | CARBON RES | IS |
| | R745 | QRD161J-105 | 1M | 1/6W | CARBON RES | IS |
| | R746 | QRD161J-105 | 1M | 1/6W | CARBON RES | IS |
| | R747 | QRD167J-472 | 4.7K | 1/6W | CARBON RES | IS |
| | R751 | QRD167J-393 | 39K | 1/6W | CARBON RES | IS |
| | R752 | QRD167J-393 | 39K | 1/6W | CARBON RES | IS |
| | R757 | QRD161J-105 | 1M | 1/6W | CARBON RES | IS |
| | R758 | QRD167J-393 | 39K | 1/6W | CARBON RES | IS |
| | R759 | QRD161J-105 | 1M | 1/6W | CARBON RES | IS |
| | R760 | QRD167J-224 | 220K | 1/6W | CARBON RES | IS |
| | R761 | QRD161J-221 | 220 | 1/6W | CARBON RES | IS |
| | R762 | QRD161J-221 | 220 | 1/6W | CARBON RES | IS |
| | R763 | QRD167J-562 | 5.6K | 1/6W | CARBON RES | IS |
| | R764 | QRD167J-562 | 5.6K | 1/6W | CARBON RES | IS |
| | R767 | QRD167J-472 | 4.7K | 1/6W | CARBON RES | IS |
| | R768 | QRD167J-102 | 1K | 1/6W | CARBON RES | IS |

Δ SAFETY PARTS

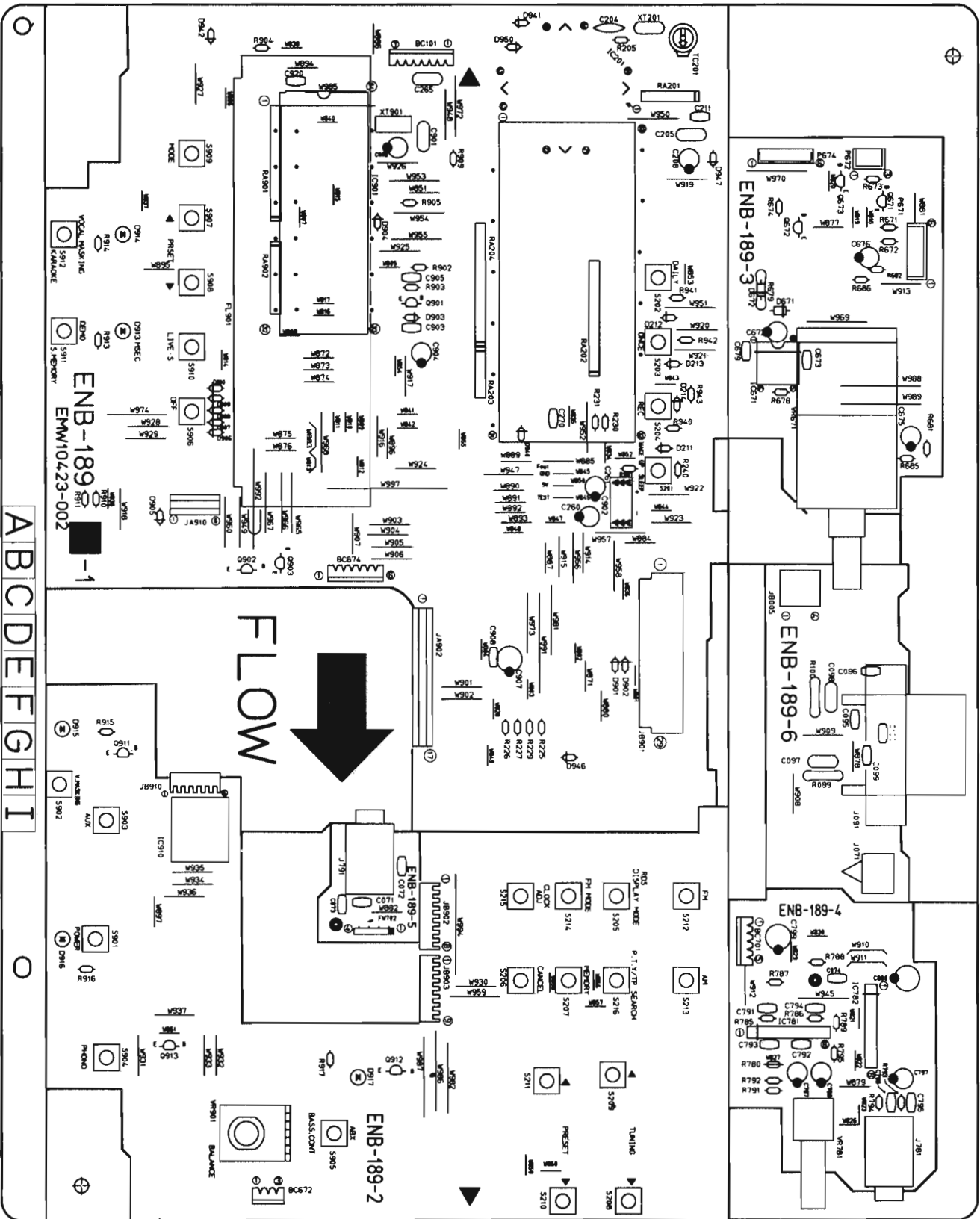
Others

| Δ | ITEM | PART NUMBER | DESCRIPTION | | AREA |
|---|-------|---------------|-------------------------|--|------|
| | | QWE350-08RR | VINYL WIRE | | |
| | | QWE351-17RR | VINYL WIRE | | |
| | J501 | EMN00TV-412B | PIN JACK | | |
| | K501 | ENZ8101-007 | INDUCTOR | | G |
| | K501 | ENZ8101-007 | INDUCTOR | | GI |
| | K502 | ENZ8101-007 | INDUCTOR | | G |
| | K502 | ENZ8101-007 | INDUCTOR | | GI |
| | L501 | EQL0011-R45J1 | INDUCTOR | | |
| | L502 | EQL0011-R45J1 | INDUCTOR | | |
| | L503 | EQL4007-1ROT | INDUCTOR | | G |
| | L503 | EQL4007-1ROT | INDUCTOR | | GI |
| | JB001 | EMV7140-L15R | CONNECT TERMINAL(15PIN) | | |
| | JB002 | EMV7125-010R | MALE CONNECTOR(10PIN) | | |
| | JB003 | EMV7125-010R | MALE CONNECTOR(10PIN) | | |
| | JB004 | EMV7125-011R | MALE CONNECTOR(11PIN) | | |

Δ SAFETY PARTS

■ ENB-189 □ Display, Mic Mixing PC Board Ass'y

Note : ENB-189 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

| PC Board Ass'y | Version | Designated Areas |
|------------------|----------|-----------------------------------|
| ENB-189 A | EN EF | Scandinavia Continental Europe |
| ENB-189 C | BS | the U.K. |
| ENB-189 D | G | Germany |
| ENB-189 E | GI | Italy |

Transistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|------------------|------|
| | Q671 | 2SD2144S(VW) | SI. TRANSISTROHM | |
| | Q672 | 2SD2144S(VW) | SI. TRANSISTROHM | |
| | Q673 | DTA144ES | DIGITAL TRAROHM | |
| | Q901 | DTC114YS | DIGITAL TRAROHM | |
| | Q902 | DTC144ES | DIGITAL TRAROHM | |
| | Q903 | DTC114YS | DIGITAL TRAROHM | |
| | Q911 | DTC114YS | DIGITAL TRAROHM | |
| | Q912 | DTC114YS | DIGITAL TRAROHM | |

Δ ISIAFETY PARTS

I.C.s

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|--------------|-----------------------|------|
| | IC201 | MN172412JYC1 | I.C.MICRO-CMATSUSHITA | |
| | IC671 | LB1639-CV | I.C(DIGI-OTSANYO | |
| | IC781 | BA15218N | I.C(MONO-ANROHM | |
| | IC901 | MN171202JHF1 | I.C.MICRO-CMATSUSHITA | |
| | IC910 | SPS-420-1 | INFRARED DESANYO | |

Δ ISIAFETY PARTS

Diodes

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|-------------|----------------|------|
| | D214 | 1SS119 | SI. DIODE | |
| | D671 | 1SR139-200 | SI. DIODE ROHM | |
| | D901 | 1SS119 | SI. DIODE | |
| | D902 | 1SS119 | SI. DIODE | |
| | D903 | 1SS119 | SI. DIODE | |
| | D904 | 1SS119 | SI. DIODE | |
| | D905 | 1SS119 | SI. DIODE | |
| | D906 | 1SS119 | SI. DIODE | |
| | D907 | 1SS119 | SI. DIODE | |
| | D908 | 1SS119 | SI. DIODE | |
| | D909 | 1SS119 | SI. DIODE | |
| | D910 | 1SS119 | SI. DIODE | |
| | D913 | SLR-342VC3F | L.E.D. ROHM | |
| | D914 | SLR-342VC3F | L.E.D. ROHM | |
| | D915 | SLR-342VC3F | L.E.D. ROHM | |
| | D916 | SLA-580LT3F | L.E.D. ROHM | BS |
| | D916 | SLR-342VC3F | L.E.D. ROHM | EF |
| | D916 | SLR-342VC3F | L.E.D. ROHM | EN |
| | D916 | SLR-342VC3F | L.E.D. ROHM | G |
| | D916 | SLR-342VC3F | L.E.D. ROHM | GI |
| | D917 | SLR-342VC3F | L.E.D. ROHM | |
| | D940 | 1SS119 | SI. DIODE | |
| | D941 | 1SS119 | SI. DIODE | |
| | D942 | 1SS119 | SI. DIODE | |
| | D946 | 1SS119 | SI. DIODE | |
| | D947 | 1SS119 | SI. DIODE | |
| | D950 | 1SS119 | SI. DIODE | |

Δ ISIAFETY PARTS

Capacitors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|------------------------|-------|
| | C071 | QCGB1HK-102 | 1000PF 50V CER.CAPACI | TO |
| | C072 | QCGB1HK-102 | 1000PF 50V CER.CAPACI | TO |
| | C074 | QCVB1CM-103Y | 0.01MF 16V CER.CAPACI | TO |
| | C095 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO G |
| | C095 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO GI |
| | C096 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO G |
| | C096 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO GI |
| | C097 | QFLB1HJ-103 | 0.01MF 50V MYLAR CAPA | CI G |
| | C097 | QFLB1HJ-103 | 0.01MF 50V MYLAR CAPA | CI GI |
| | C098 | QFLB1HJ-103 | 0.01MF 50V MYLAR CAPA | CI G |
| | C098 | QFLB1HJ-103 | 0.01MF 50V MYLAR CAPA | CI GI |
| | C099 | QCBB1HK-331Y | 330PF 50V CER.CAPACI | TO G |
| | C099 | QCBB1HK-331Y | 330PF 50V CER.CAPACI | TO GI |
| | C100 | QCBB1HK-331Y | 330PF 50V CER.CAPACI | TO G |
| | C100 | QCBB1HK-331Y | 330PF 50V CER.CAPACI | TO GI |

Δ ISIAFETY PARTS

Capacitors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|---------------|------------------------|------|
| | C204 | QCT26CH-330 | 33PF 50V CER.CAPACI | TO |
| | C205 | QCZ0202-155 | 1.5MF 25V CER.RESIST | OR |
| | C208 | QETB1HM-226E | 22MF 50V E.CAPACITO | R |
| | C211 | QCVB1CM-103Y | 0.01MF 16V CER.CAPACI | TO |
| | C265 | QCZ0202-155 | 1.5MF 25V CER.RESIST | OR |
| | C672 | QETB1AM-476 | 47MF 10V E.CAPACITO | R |
| | C673 | QCVB1CM-103Y | 0.01MF 16V CER.CAPACI | TO |
| | C675 | QETB1HM-474 | 0.47MF 50V ELECTRO | |
| | C676 | QETB1HM-474 | 0.47MF 50V ELECTRO | |
| | C679 | QCGB1HK-102 | 1000PF 50V CER.CAPACI | TO |
| | C787 | QEK51EM-106 | 10MF 25V AL E.CAPAC | IT |
| | C788 | QEK51EM-106 | 10MF 25V AL E.CAPAC | IT |
| | C791 | QCBB1HK-101Y | 100PF 50V CER.CAPACI | TO |
| | C792 | QCBB1HK-101Y | 100PF 50V CER.CAPACI | TO |
| | C793 | QCBB1HK-101Y | 100PF 50V CER.CAPACI | TO |
| | C794 | QCBB1HK-101Y | 100PF 50V CER.CAPACI | TO |
| | C795 | QCGB1HK-102 | 1000PF 50V CER.CAPACI | TO |
| | C797 | QEK51EM-106 | 10MF 25V AL E.CAPAC | IT |
| | C798 | QCGB1HK-102 | 1000PF 50V CER.CAPACI | TO |
| | C799 | QERS1CM-476 | 47MF 16V AL E.CAPAC | IT |
| | C800 | QERS1CM-476 | 47MF 16V AL E.CAPAC | IT |
| | C901 | QCZ0205-155 | 1.5MF 25V C.CAPACITO | R |
| | C902 | QEA0DHZ-22AZM | E.CAPACITO | R |
| | C903 | QCVB1CM-103Y | 0.01MF 16V CER.CAPACI | TO |
| | C904 | QEK51HM-225G | 2.2MF 50V AL E.CAPAC | IT |
| | C905 | QCVB1CM-103Y | 0.01MF 16V CER.CAPACI | TO |
| | C906 | QEK50JM-476 | 47MF 6.3V AL E.CAPAC | IT |
| | C907 | QERS0JM-107 | 100MF 6.3V AL E.CAPAC | IT |
| | C908 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO |

Δ ISIAFETY PARTS

Resistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|--------------|----------------------|------|
| | R099 | QRD14CJ-100S | 10 1/4W UNF.CARBON | G |
| | R099 | QRD14CJ-100S | 10 1/4W UNF.CARBON | GI |
| | R100 | QRD14CJ-100S | 10 1/4W UNF.CARBON | G |
| | R100 | QRD14CJ-100S | 10 1/4W UNF.CARBON | GI |
| | R230 | QRD167J-3R9 | 3.9 1/6W CARBON | |
| | R240 | QRD167J-473 | 47K 1/6W CARBON RES | IS |
| | R671 | QRD167J-332 | 3.3K 1/6W CARBON RES | IS |
| | R672 | QRD167J-332 | 3.3K 1/6W CARBON RES | IS |
| | R673 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R674 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R678 | QRD161J-221 | 220 1/6W CARBON RES | IS |
| | R679 | QRD14CJ-4R7S | 4.7 1/4W UNF.CARBON | R |
| | R681 | QRD167J-272 | 2.7K 1/6W CARBON RES | IS |
| | R682 | QRD167J-272 | 2.7K 1/6W CARBON RES | IS |
| | R685 | QRD167J-123 | 12K 1/6W CARBON RES | IS |
| | R686 | QRD167J-123 | 12K 1/6W CARBON RES | IS |
| | R780 | QRD167J-471 | 470 1/6W CARBON RES | IS |
| | R785 | QRD167J-104 | 100K 1/6W CARBON RES | IS |
| | R786 | QRD167J-104 | 100K 1/6W CARBON RES | IS |
| | R787 | QRD161J-202 | 2K 1/6W CARBON RES | IS |
| | R788 | QRD167J-913 | 91K 1/6W CARBON RES | IS |
| | R789 | QRD167J-473 | 47K 1/6W CARBON RES | IS |
| | R793 | QRD167J-102 | 1K 1/6W CARBON RES | IS |
| | R794 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R795 | QRD161J-331 | 330 1/6W CARBON RES | IS |
| | R901 | QRD167J-470 | 47 1/6W CARBON RES | IS |
| | R902 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R903 | QRD167J-104 | 100K 1/6W CARBON RES | IS |
| | R904 | QRD167J-104 | 100K 1/6W CARBON RES | IS |
| | R905 | QRD167J-473 | 47K 1/6W CARBON RES | IS |
| | R909 | QRD167J-473 | 47K 1/6W CARBON RES | IS |
| | R910 | QRD167J-473 | 47K 1/6W CARBON RES | IS |
| | R911 | QRD167J-473 | 47K 1/6W CARBON RES | IS |
| | R913 | QRD167J-241 | 240 1/6W CARBON RES | IS |
| | R914 | QRD167J-241 | 240 1/6W CARBON RES | IS |
| | R915 | QRD167J-241 | 240 1/6W CARBON RES | IS |
| | R916 | QRD167J-241 | 240 1/6W CARBON RES | IS |
| | R917 | QRD167J-241 | 240 1/6W CARBON RES | IS |
| | R940 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R941 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R942 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R943 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | VR671 | QVDB94B-E15C | 100K VARIABLE RES | ES |
| | VR781 | QVAB80B-E54D | 50K VARIABLE RES | ES |
| | VR901 | QVJ884W-E15C | 100K VARIABLE RES | ES |

Δ ISIAFETY PARTS

RX-S50RBK

Others

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|------|------|----------------|-------------------------------|------|
| | | VYH7653-001 | SPRING | |
| | | EWT011-158 | TERMINAL WIRE | |
| J091 | | EMB90TV-404A | SPEAKER TERMINAL | BS |
| J091 | | EMB90TV-404A | SPEAKER TERMINAL | EF |
| J091 | | EMB90TV-404A | SPEAKER TERMINAL | EN |
| J091 | | EMB90TV-403A | SPEAKER TERMINAL | G |
| J091 | | EMB90TV-403A | SPEAKER TERMINAL | GI |
| J781 | | QMS3L10-ED0H | MICROPHONE JACK | |
| J791 | | QMS3L10-ED0H | MICROPHONE JACK | |
| P671 | | EMV5109-006A | CONNECT TERMINAL(6PIN) | |
| P672 | | EMV5109-003A | MALE CONNECTOR(3PIN) | |
| P674 | | EMV5142-906 | CONNECT TERMINAL(6PIN) | |
| S201 | | ESP0001-023ZJ5 | TACT SWITCH(WAKE-UP SLEEP) | |
| S202 | | ESP0001-023ZJ5 | TACT SWITCH(DAILY) | |
| S203 | | ESP0001-023ZJ5 | TACT SWITCH(ONCE) | |
| S204 | | ESP0001-023ZJ5 | TACT SWITCH(REC) | |
| S205 | | ESP0001-023ZJ5 | TACT SWITCH(RDS DISPLAY MODE) | |
| S206 | | ESP0001-023ZJ5 | TACT SWITCH(CANCEL) | |
| S207 | | ESP0001-023ZJ5 | TACT SWITCH(MEMORY) | |
| S208 | | ESP0001-023ZJ5 | TACT SWITCH(TUNING ▶) | |
| S209 | | ESP0001-023ZJ5 | TACT SWITCH(TUNING ◀) | |
| S210 | | ESP0001-023ZJ5 | TACT SWITCH(PRESET ▶) | |
| S211 | | ESP0001-023ZJ5 | TACT SWITCH(PRESET ◀) | |
| S212 | | ESP0001-023ZJ5 | TACT SWITCH(FM) | |
| S213 | | ESP0001-023ZJ5 | TACT SWITCH(AM) | |
| S214 | | ESP0001-023ZJ5 | TACT SWITCH(FM MODE) | |
| S215 | | ESP0001-023ZJ5 | TACT SWITCH(CLOCK ADJ) | |
| S216 | | ESP0001-023ZJ5 | TACT SWITCH(P.T.Y./TP SEARCH) | |
| S901 | | ESP0001-023ZJ5 | TACT SWITCH(POWER) | |
| S902 | | ESP0001-023ZJ5 | TACT SWITCH(V.MASKING) | |

Δ SAFETY PARTS

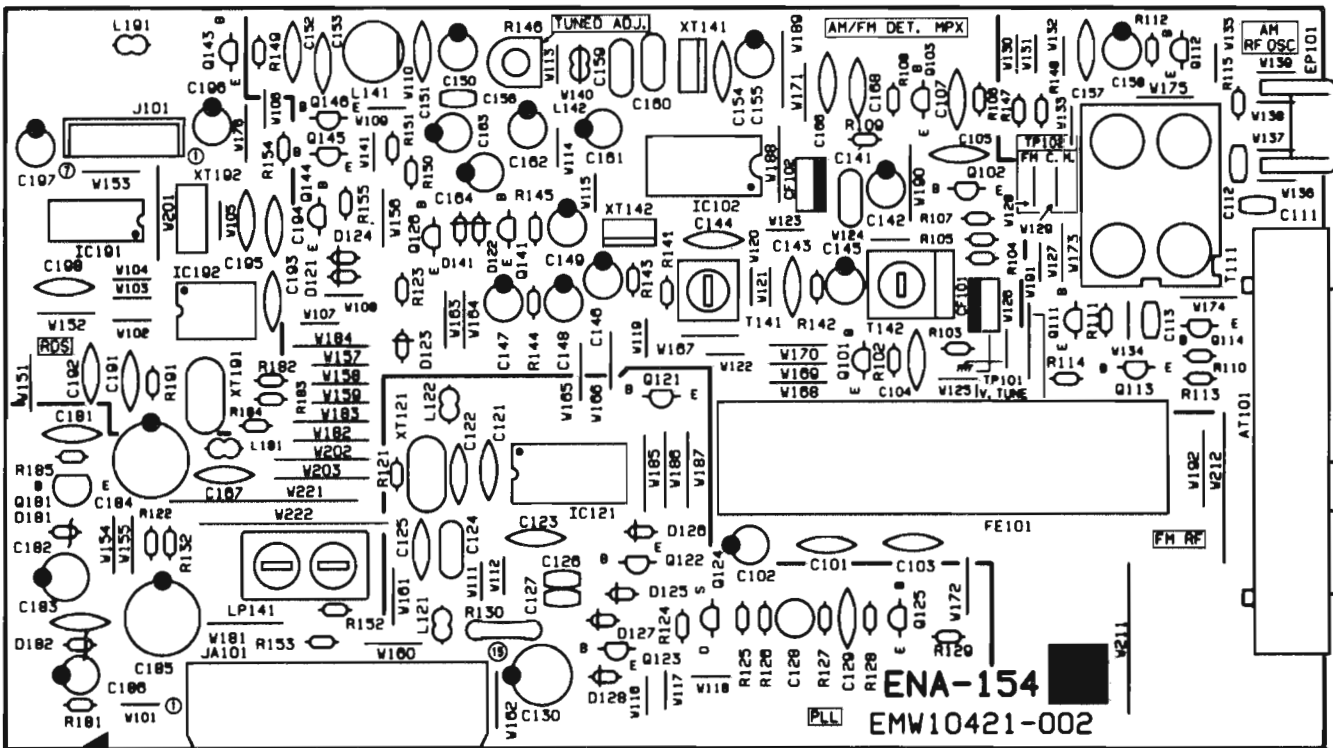
Others

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|----------------|-----------------------------|------|
| | S903 | ESP0001-023ZJ5 | TACT SWITCH(AUX) | |
| | S904 | ESP0001-023ZJ5 | TACT SWITCH(PHONO) | |
| | S905 | ESP0001-023ZJ5 | TACT SWITCH(ABX/BASS CONT.) | |
| | S906 | ESP0001-023ZJ5 | TACT SWITCH(OFF) | |
| | S907 | ESP0001-023ZJ5 | TACT SWITCH(PRESET ◀) | |
| | S908 | ESP0001-023ZJ5 | TACT SWITCH(PRESET ▶) | |
| | S909 | ESP0001-023ZJ5 | TACT SWITCH(MODE) | |
| | S910 | ESP0001-023ZJ5 | TACT SWITCH(LIVE-S) | |
| | S911 | ESP0001-023ZJ5 | TACT SWITCH(S.MEMORY) | |
| | S912 | ESP0001-023ZJ5 | TACT SWITCH(KARAOKE) | |
| | BC101 | EWS297-1130 | SOCKET WIRE ASSY(7PIN) | |
| | BC672 | EWS293-0116 | SOCKET WIRE(3PIN) | |
| | BC674 | EWS326-A913 | SOCKET WIRE ASSY(6PIN) | |
| | BC701 | EWS325-A920 | SOCKET WIRE ASSY(5PIN) | |
| | BK901 | E308419-001SM | FL HOLDER | |
| | FL201 | ELU0001-174 | FLUORESCENT DISPLAY TUBE | |
| | FL901 | ELU0001-152 | FLUORESCENT DISPLAY TUBE | |
| | FS901 | E306805-014 | FELT SPACER | |
| | FW702 | EWR34D-16LS | FLAT WIRE ASSY(4PIN) | |
| | JA902 | EMV5123-H070 | CONNECT TERMINAL(17PIN) | |
| | JA910 | EMV5123-6070 | CONNECT TERMINAL(6PIN) | |
| | JB005 | EMV7125-004R | CONNECT TERMINAL(4PIN) | |
| | JB901 | EMV7123-029R | PIN CONNECTOR(29PIN) | |
| | JB902 | EMV7124-008 | SOCKET(8PIN) | |
| | JB903 | EMV7124-008 | SOCKET(8PIN) | |
| | JB910 | EMV7124-006 | SOCKET(6PIN) | |
| | TC201 | ENZ1003-015 | TRIMMER CAPACITOR | |
| | XT201 | ECX0006-000KNJ | CRYSTAL | |
| | XT901 | ECX0060-000EM | CERAMIC RESONATOR | |

Δ SAFETY PARTS

■ ENA-154 □ Tuner PC Board Ass'y

Note: ENA-154 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

| PC Board Ass'y | Version | Designated Areas |
|------------------|----------|-----------------------------------|
| ENA-154 D | EN EF | Scandinavia Continental Europe |
| ENA-154 E | G | Germany |
| ENA-154 F | BS | the U.K. |
| ENA-154 G | GI | Italy |

Transistors

| Δ ITEM | PART NUMBER | DESCRIPTION | AREA |
|--------|---------------|--------------------|------|
| Q101 | 2SC461(B,C) | SI.TRANSISTHITACHI | |
| Q102 | 2SC535(B,C) | SI.TRANSIST | |
| Q103 | 2SC461(B,C) | SI.TRANSISTHITACHI | |
| Q111 | 2SD2144S(VW) | SI.TRANSISTROHM | |
| Q112 | 2SD2144S(VW) | SI.TRANSISTROHM | |
| Q113 | 2SC1740S(R,S) | SI.TRANSISTROHM | |
| Q114 | 2SD2144S(VW) | SI.TRANSISTROHM | |
| Q121 | DTA144ES | DIGITAL TRAROHM | |
| Q122 | DTA144ES | DIGITAL TRAROHM | |
| Q123 | DTA144ES | DIGITAL TRAROHM | |
| Q124 | 2SK301(Q2) | F.E.T. | |
| Q125 | 2SC458(D) | SI.TRANSIST | |
| Q126 | DTC114ES | DIGITAL TRAROHM | |
| Q141 | DTC114ES | DIGITAL TRAROHM | |
| Q143 | DTC114ES | DIGITAL TRAROHM | |
| Q144 | DTA144ES | DIGITAL TRAROHM | |
| Q145 | 2SD2144S(VW) | SI.TRANSISTROHM | |
| Q146 | 2SD2144S(VW) | SI.TRANSISTROHM | |
| Q181 | 2SD400MP(E,F) | SI.TRANSISTSANYO | |

Δ ISIAFETY PARTS

I.C.s

| Δ ITEM | PART NUMBER | DESCRIPTION | AREA |
|--------|-------------|------------------|------|
| IC102 | LA1836M | I.C(MONO-ANSANYO | |
| IC121 | LC7218M | I.C(DIGI-MOSANYO | |
| IC191 | LC7073M | I.C(DIGI-MOSANYO | |
| IC192 | SAA6579T | I.C(M) | |

Δ ISIAFETY PARTS

Diodes

| Δ ITEM | PART NUMBER | DESCRIPTION | AREA |
|--------|-------------|-----------------|------|
| D121 | 1SS119 | SI.DIODE | |
| D122 | 1SS119 | SI.DIODE | |
| D123 | 1SS119 | SI.DIODE | |
| D124 | 1SS119 | SI.DIODE | |
| D125 | 1SS119 | SI.DIODE | |
| D126 | 1SS119 | SI.DIODE | |
| D127 | 1SS119 | SI.DIODE | |
| D128 | 1SS119 | SI.DIODE | |
| D141 | 1SS119 | SI.DIODE | |
| D181 | MTZ7.5JC | ZENER DIODEROHM | |
| D182 | MTZ5.1JC | ZENER DIODEROHM | |

Δ ISIAFETY PARTS

Capacitors

| Δ ITEM | PART NUMBER | DESCRIPTION | AREA |
|--------|--------------|---------------------------|------|
| C101 | QCF21HP-103A | 0.01MF 50V CER.CAPACI TO | |
| C102 | QETB1HM-476 | 47MF 50V E.CAPACITO R G | |
| C102 | QETB1HM-476 | 47MF 50V E.CAPACITO R GI | |
| C103 | QCF21HP-223A | 0.022MF 50V CER.CAPACI TO | |
| C104 | QCF21HP-223A | 0.022MF 50V CER.CAPACI TO | |
| C105 | QCF21HP-223A | 0.022MF 50V CER.CAPACI TO | |
| C107 | QCF21HP-223A | 0.022MF 50V CER.CAPACI TO | |
| C111 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI TO | |
| C112 | QCT30CH-120Y | 12PF 50V CER.CAPACI TO | |
| C113 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI TO | |
| C121 | QCS21HJ-180A | 18PF 50V CER.CAPACI TO | |
| C122 | QCS21HJ-180A | 18PF 50V CER.CAPACI TO | |
| C123 | QCC21EM-473 | 0.047MF 25V CER.CAPACI TO | |
| C124 | QCZ0202-155 | 1.5MF 25V CER.RESIST OR | |
| C125 | QCF21HP-223A | 0.022MF 50V CER.CAPACI TO | |
| C126 | QCB1HK-101Y | 100PF 50V CER.CAPACI TO | |
| C127 | QCB1HK-101Y | 100PF 50V CER.CAPACI TO | |
| C128 | QENB1HM-474 | 0.47MF 50V NP E.CAPAC IT | |
| C129 | QCY21HK-102 | 1000PF 50V CER.CAPACI TO | |
| C130 | QETB1CM-227 | 220MF 16V AL E.CAPAC IT | |

Δ ISIAFETY PARTS

Capacitors

| Δ ITEM | PART NUMBER | DESCRIPTION | AREA |
|--------|---------------|----------------------------|------|
| C141 | QFLB1HJ-473 | 0.047MF 50V MYLAR CAPA CI | |
| C142 | QETB1HM-106 | 10MF 50V E.CAPACITO R | |
| C143 | QCF21HP-223A | 0.022MF 50V CER.CAPACI TO | |
| C144 | QCC21EM-223 | 0.022MF 25V CER.CAPACI TO | |
| C145 | QETB1HM-475E | 4.7MF 50V E.CAPACITO R | |
| C146 | QETB1HM-106 | 10MF 50V E.CAPACITO R | |
| C147 | QETB1HM-105 | 1MF 50V AL E.CAPAC IT | |
| C148 | QETB1HM-474 | 0.47MF 50V ELECTRO | |
| C149 | QETB1HM-105 | 1MF 50V AL E.CAPAC IT | |
| C150 | QETC1HM-2252M | 2.2MF 50V AL E.CAPAC IT | |
| C151 | QCS21HJ-181A | 180PF 50V CER.CAPACI TO G | |
| C151 | QCS21HJ-181A | 180PF 50V CER.CAPACI TO GI | |
| C152 | QCS21HJ-181A | 180PF 50V CER.CAPACI TO G | |
| C152 | QCS21HJ-181A | 180PF 50V CER.CAPACI TO GI | |
| C153 | QCY31HK-821Z | 820PF 50V CER.CAPACI TO | |
| C154 | QCY31HK-472Z | 4700PF 50V CER.CAPACI TO | |
| C155 | QETB1EM-476 | 47MF 25V AL E.CAPAC IT | |
| C156 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI TO | |
| C157 | QCF21HP-473A | 0.047MF 50V CER.CAPACI TO | |
| C158 | QETB1HM-106 | 10MF 50V E.CAPACITO R | |
| C159 | QFLB1HJ-333 | 0.033MF 50V MYLAR CAPA CI | |
| C160 | QFLB1HJ-333 | 0.033MF 50V MYLAR CAPA CI | |
| C161 | QETB1HM-225 | 2.2MF 50V E.CAPACITO R | |
| C162 | QETB1HM-225 | 2.2MF 50V E.CAPACITO R | |
| C163 | QETB1HM-225 | 2.2MF 50V E.CAPACITO R | |
| C164 | QETB1HM-225 | 2.2MF 50V E.CAPACITO R | |
| C166 | QCC21EM-473 | 0.047MF 25V CER.CAPACI TO | |
| C167 | QCF21HP-223A | 0.022MF 50V CER.CAPACI TO | |
| C168 | QCC21EM-473 | 0.047MF 25V CER.CAPACI TO | |
| C181 | QCF21HP-223A | 0.022MF 50V CER.CAPACI TO | |
| C182 | QETB1CM-107 | 100MF 16V AL E.CAPAC IT | |
| C183 | QCF21HP-223A | 0.022MF 50V CER.CAPACI TO | |
| C184 | QETB1CM-227 | 220MF 16V AL E.CAPAC IT | |
| C185 | QETB1CM-477M | 470MF 16V E.CAPACITO R | |
| C186 | QETB1HM-475E | 4.7MF 50V E.CAPACITO R | |
| C191 | QCS21HJ-820 | 82PF 50V CER.CAPACI TO | |
| C192 | QCS21HJ-470 | 47PF 50V CER.CAPACI TO | |
| C193 | QCS21HJ-561 | 560PF 50V CER.CAPACI TO | |
| C194 | QCF21HP-223A | 0.022MF 50V CER.CAPACI TO | |
| C195 | QCS21HJ-331 | 330PF 50V CER.CAPACI TO | |
| C196 | QETB1HM-225 | 2.2MF 50V E.CAPACITO R | |
| C197 | QETB1HM-106 | 10MF 50V E.CAPACITO R | |
| C198 | QCC21EM-104 | 0.1MF 25V CER.CAPACI TO | |

Δ ISIAFETY PARTS

Resistors

| Δ ITEM | PART NUMBER | DESCRIPTION | AREA |
|--------|--------------|----------------------------|------|
| R102 | QRD167J-332 | 3.3K 1/6W CARBON RES IS | |
| R103 | QRD161J-221 | 220 1/6W CARBON RES IS | |
| R104 | QRD167J-272 | 2.7K 1/6W CARBON RES IS | |
| R105 | QRD167J-391 | 390 1/6W CARBON RES IS | |
| R106 | QRD167J-102 | 1K 1/6W CARBON RES IS | |
| R107 | QRD161J-681 | 680 1/6W CARBON RES IS | |
| R108 | QRD167J-332 | 3.3K 1/6W CARBON RES IS | |
| R109 | QRD161J-221 | 220 1/6W CARBON RES IS | |
| R110 | QRD167J-472 | 4.7K 1/6W CARBON RES IS | |
| R111 | QRD167J-472 | 4.7K 1/6W CARBON RES IS | |
| R112 | QRD167J-472 | 4.7K 1/6W CARBON RES IS | |
| R113 | QRD167J-103 | 10K 1/6W CARBON RES IS | |
| R114 | QRD167J-103 | 10K 1/6W CARBON RES IS | |
| R115 | QRD167J-104 | 100K 1/6W CARBON RES IS | |
| R121 | QRD167J-473 | 47K 1/6W CARBON RES IS | |
| R122 | QRD167J-103 | 10K 1/6W CARBON RES IS | |
| R123 | QRD167J-562 | 5.6K 1/6W CARBON RES IS | |
| R124 | QRD167J-222 | 2.2K 1/6W CARBON RES IS | |
| R125 | QRD167J-222 | 2.2K 1/6W CARBON RES IS | |
| R126 | QRD161J-181 | 180 1/6W CARBON RES IS | |
| R127 | QRD167J-822 | 8.2K 1/6W CARBON RES IS | |
| R128 | QRD167J-472 | 4.7K 1/6W CARBON RES IS | |
| R129 | QRD167J-222 | 2.2K 1/6W CARBON RES IS | |
| R130 | QRZ0077-680 | 68 1/4W FUSIBLE RE SI | |
| R132 | QRD167J-102 | 1K 1/6W CARBON RES IS | |
| R141 | QRD167J-392 | 3.9K 1/6W CARBON RES IS | |
| R142 | QRD167J-103 | 10K 1/6W CARBON RES IS | |
| R143 | QRD167J-103 | 10K 1/6W CARBON RES IS | |
| R144 | QRD167J-332 | 3.3K 1/6W CARBON RES IS | |
| R145 | QRD167J-103 | 10K 1/6W CARBON RES IS | |
| R146 | QVPA601-103A | 10K TRIMMER RE SI | |
| R147 | QRD167J-473 | 47K 1/6W CARBON RES IS | |
| R148 | QRD161J-561 | 560 1/6W CARBON RES IS | |
| R149 | QRD167J-223 | 22K 1/6W CARBON RES IS BS | |
| R149 | QRD167J-103 | 10K 1/6W CARBON RES IS EF | |
| R149 | QRD167J-103 | 10K 1/6W CARBON RES IS EN | |
| R149 | QRD167J-103 | 10K 1/6W CARBON RES IS G | |
| R149 | QRD167J-103 | 10K 1/6W CARBON RES IS GI | |
| R150 | QRD167J-332 | 3.3K 1/6W CARBON RES IS | |
| R151 | QRD167J-332 | 3.3K 1/6W CARBON RES IS | |
| R152 | QRD167J-332 | 3.3K 1/6W CARBON RES IS BS | |
| R152 | QRD167J-822 | 8.2K 1/6W CARBON RES IS EF | |
| R152 | QRD167J-822 | 8.2K 1/6W CARBON RES IS EN | |
| R152 | QRD167J-822 | 8.2K 1/6W CARBON RES IS G | |
| R152 | QRD167J-822 | 8.2K 1/6W CARBON RES IS GI | |

Δ ISIAFETY PARTS

RX-S50RBK

Resistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|-------------|----------------------|-------|
| | R153 | QRD167J-332 | 3.3K 1/6W CARBON RES | IS BS |
| | R153 | QRD167J-822 | 8.2K 1/6W CARBON RES | IS EF |
| | R153 | QRD167J-822 | 8.2K 1/6W CARBON RES | IS EN |
| | R153 | QRD167J-822 | 8.2K 1/6W CARBON RES | IS G |
| | R153 | QRD167J-822 | 8.2K 1/6W CARBON RES | IS GI |
| | R154 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R155 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R181 | QRD167J-222 | 2.2K 1/6W CARBON RES | IS |
| | R182 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R183 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R184 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R185 | QRD167J-472 | 4.7K 1/6W CARBON RES | IS |
| | R191 | QRD167J-222 | 2.2K 1/6W CARBON RES | IS |

Δ IS SAFETY PARTS

Others

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|---------------|----------------------|------|
| | | E309022-001SM | SHIELD BRACKET | |
| | | VYH7653-002 | I.C.SOCKET | |
| | | VYH7653-004 | I.C.PROTECTOR | |
| | J101 | EMV5109-007A | MALE CONNECTOR(7PIN) | |
| | L111 | EQL4004-220 | INDUCTOR | G |
| | L111 | EQL4004-220 | INDUCTOR | GI |
| | L121 | EQL4007-1ROT | INDUCTOR | |
| | L122 | EQL4007-1ROT | INDUCTOR | |
| | L141 | EQL2108-392 | INDUCTOR | G |
| | L141 | EQL2108-392 | INDUCTOR | GI |

Δ IS SAFETY PARTS

Others

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|-----------------|-------------------------|------|
| | L181 | EQL4004-1R0 | INDUCTOR | |
| | L191 | EQL4004-101 | INDUCTOR | |
| | T111 | EQR7121-002 | RF COIL | |
| | T141 | EQT2140-021 | I.F.TRANSFORMER | |
| | T142 | ECB1560-010 | CERAMIC FILTER | |
| | AT101 | EMB01YV-305K | ANTENNA TERMINAL | |
| | CF101 | ECB2118-007R | CERAMIC FILTER | |
| | CF102 | ECB2118-007R | CERAMIC FILTER | |
| | EP101 | E70225-001 | EARTH PLATE | |
| | FE101 | EAF2203-004 | FRONT END | BS |
| | FE101 | EAF2203-004 | FRONT END | EF |
| | FE101 | EAF2203-004 | FRONT END | EN |
| | FE101 | EAF2203-005 | FRONT END | G |
| | FE101 | EAF2203-005 | FRONT END | GI |
| | JA101 | EMV7140-L15R | CONNECT TERMINAL(15PIN) | |
| | LP141 | EQF0101-002 | LOWPASS FILTER | |
| | XT121 | ECX0007-200KWJ1 | CRYSTAL | |
| | XT141 | ECXPR46-001A | CRYSTAL | |
| | XT142 | ECB1001-002 | CERAMIC FILTER | |
| | XT191 | VCX5057-001 | CRYSTAL | |
| | XT192 | EFO-EC4004T4 | CERAMIC RESONATOR | |

Δ IS SAFETY PARTS

Accessories List

Symbol No.

| | | | |
|---|---|---|---|
| M | 2 | M | M |
|---|---|---|---|

| Item | Part Number | Part Name | Q'ty | Description | Areas |
|------|----------------|-------------------|------|-------------|-------|
| 1 | E30580-2089A | INSTRUCTION BOOK | 1 | | EF |
| | E30580-2089A | INSTRUCTION BOOK | 1 | | G |
| | E30580-2089A | INSTRUCTION BOOK | 1 | | GI |
| | E30580-2090ABS | INSTRUCTION BOOK | 1 | | BS |
| | E30580-2091A | INSTRUCTION BOOK | 1 | | EN |
| 2 | BT20060 | WARRANTY CARD | 1 | | BS |
| 3 | BT-20134 | WARRANTY CARD | 1 | | G |
| 4 | BT-20066A | EEC AGENCY | 1 | | BS |
| 5 | E43486-340A | SAFETY SHEET | 1 | | BS |
| 6 | E03614-004 | BIUT-IN ANTENNA | 1 | | BS |
| 7 | E03614-004 | BIUT-IN ANTENNA | 1 | | EF |
| | E03614-004 | BIUT-IN ANTENNA | 1 | | EN |
| | E03614-004 | BIUT-IN ANTENNA | 1 | | GI |
| | E67007-001 | ANTENNA WIRE | 1 | | G |
| | EQB4001-015 | LOOP ANTENNA | 1 | | |
| 8 | EMZ2001-014 | ADAPTOR PLUG | 1 | | BS |
| | EMZ2001-014 | ADAPTOR PLUG | 1 | | EF |
| | EMZ2001-014 | ADAPTOR PLUG | 1 | | EN |
| | EMZ2001-014 | ADAPTOR PLUG | 1 | | GI |
| 9 | RM-SES50U | REMOTE CONTROLLER | 1 | | |
| 10 | UM-3(DJ)-2PSA | BATTERY | 1 | | |
| 11 | E43486-597A | INST SHEET | 1 | | G |
| | E43486-597A | INST SHEET | 1 | | GI |
| 12 | EWF102-040 | FLAT WIRE ASSY | 1 | | G |
| | EWF102-040 | FLAT WIRE ASSY | 1 | | GI |
| 13 | QPGA025-03505B | ENVELOPE | 1 | | |

The Marks for Designated Areas

BS the U.K.

G Germany

No mark indicates all areas.

EN Scandinavia

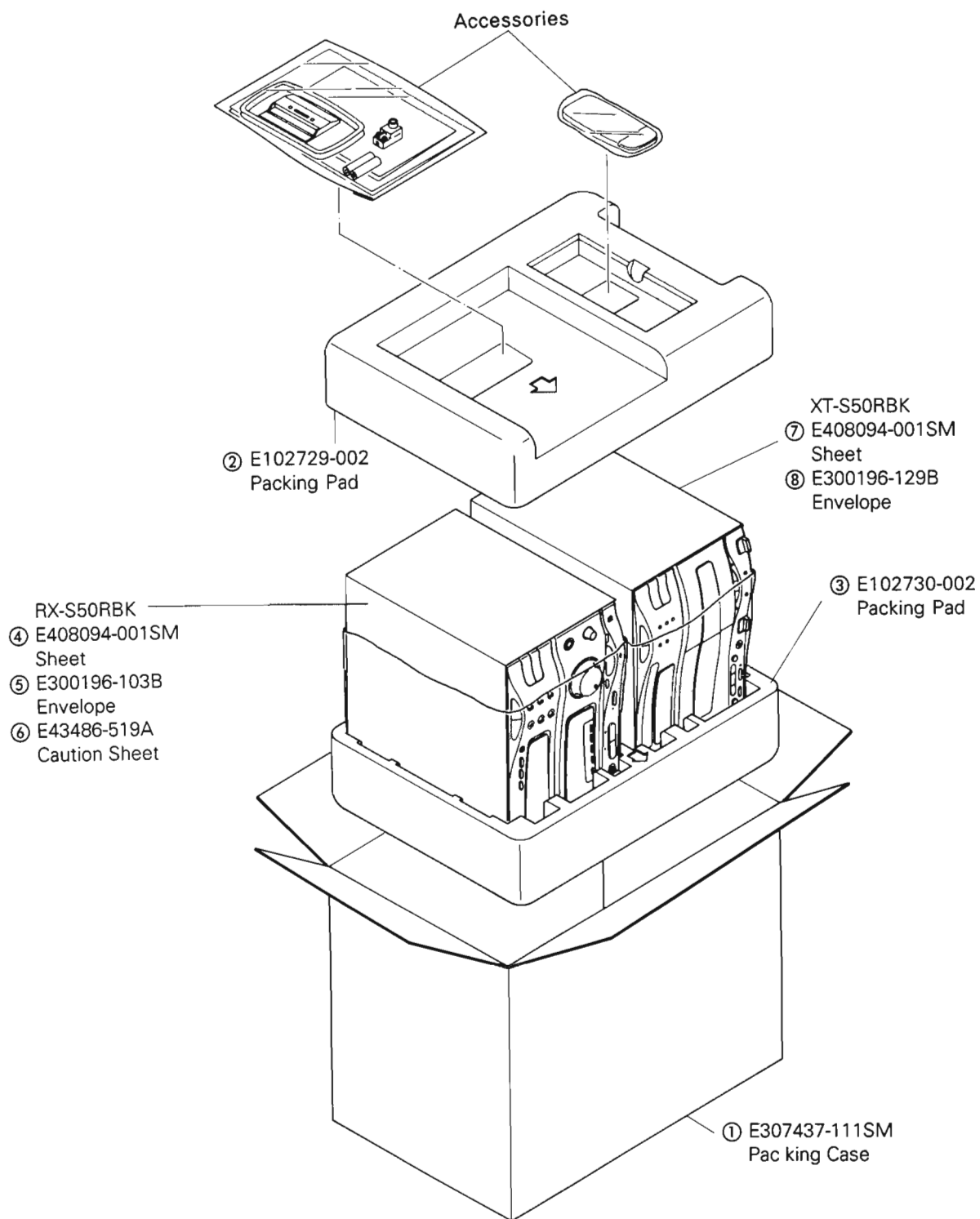
GI Italy

EF Continental Europe

Packing Materials and Part Numbers

Symbol No.

| | | | |
|---|---|---|---|
| M | 3 | M | M |
|---|---|---|---|



— MEMO —

XT-S50RBK

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

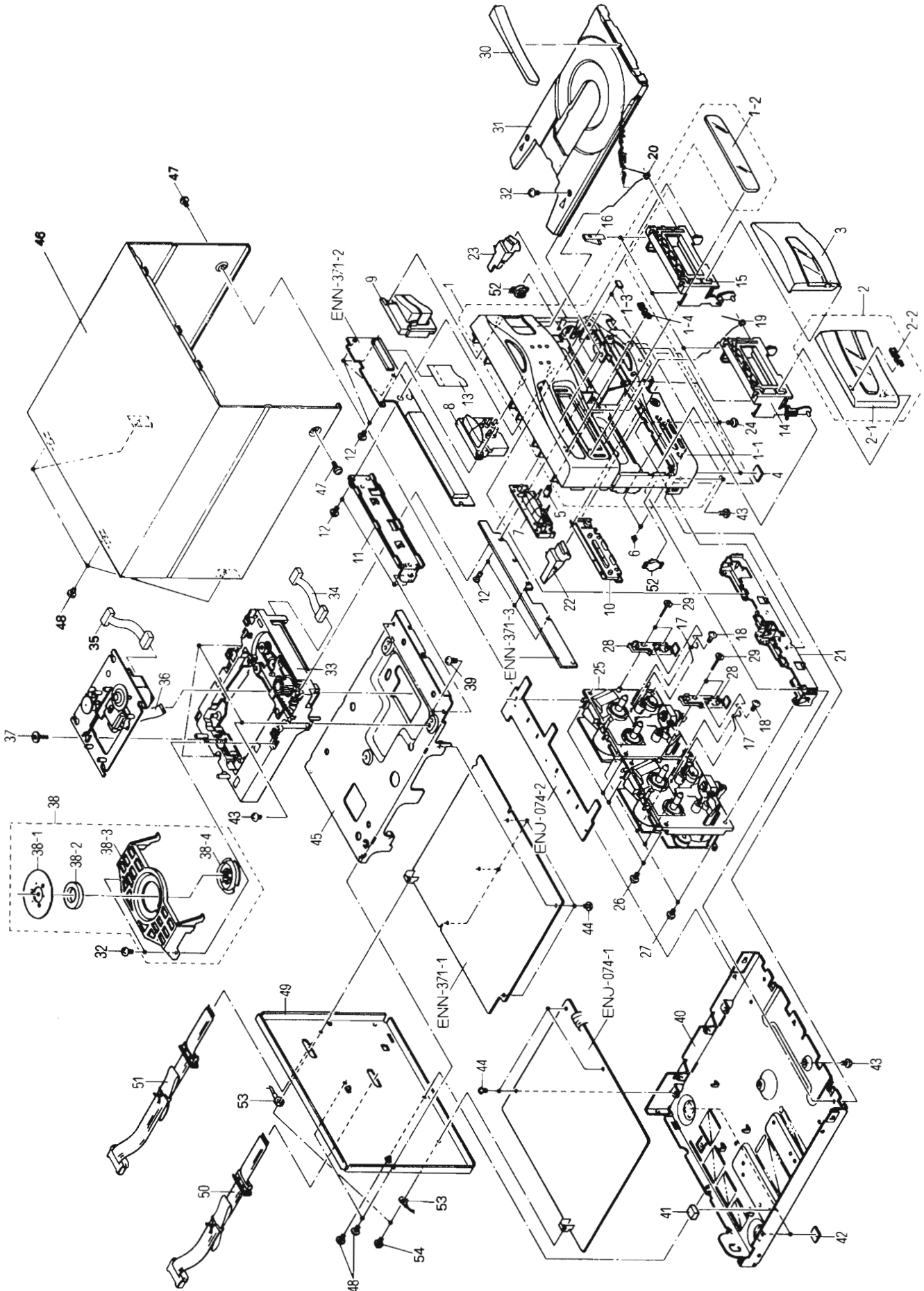
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| Cassette Mechanism Ass'y and Parts List | 5-5 |
| ■ Grease Point | 5-5 |
| CD Mechanism Ass'y and Parts List | 5-8 |
| ■ Grease Point | 5-8 |
| Printed Circuit Board Ass'y and Parts List | 5-10 |
| ■ ENN-371 <input type="checkbox"/> CD PC Board Ass'y | 5-10 |
| ■ ENJ-074 <input type="checkbox"/> Deck PC Board Ass'y | 5-14 |

General Exploded View and Parts List

Symbol No.

| | | | |
|---|---|---|---|
| M | 4 | M | M |
|---|---|---|---|



■ Parts List

Symbol No.

| | | | |
|---|---|---|---|
| M | 4 | M | M |
|---|---|---|---|

| ⚠ | Item | Part Number | Part Name | Q'ty | Description | Areas |
|---|------|------------------|-------------------------|------|--------------|-------|
| | 1 | EFP-XTS50RBKE (S | FRONT PANEL ASSY | 1 | | |
| | 1-1 | E102686-004SM | FRONT PANEL | 1 | | |
| | 1-2 | E308430-003SM | WINDOW SCREEN | 1 | | |
| | 1-3 | E69777-003 | REFLECTION PLATE | 2 | | |
| | 1-4 | E406971-221 | JVC MARK | 1 | | |
| | 2 | E207803-005SA | CASSETTE LID ASSY | 1 | DECK A | |
| | 2-1 | E207803-005SM | CASSETTE LID | 1 | DECK A | |
| | 2-2 | E406971-221 | JVC MARK | 1 | DECK A | |
| | 3 | E207806-005SM | CASSETTE LID ASSY | 1 | DECK B | |
| | 4 | E75896-001 | SPACER | 2 | FRONT FOOT | |
| | 5 | E407446-001SS | INDICATOR | 1 | | |
| | 6 | E407445-002SS | INDICATOR | 2 | | |
| | 7 | E207545-003SS | PUSH BUTTON ASSY | 1 | | |
| | 8 | E207796-001SM | PUSH BUTTON | 1 | | |
| | 9 | E207859-004SM | PUSH BUTTON ASSY | 1 | | |
| | 10 | E308151-003SS | PUSH BUTTON ASSY | 1 | | |
| | 11 | E308437-003SM | STAY BRACKET | 1 | | |
| | 12 | SDSF2608Z | SCREW | 10 | | |
| | 13 | EWR633K-14PPJ3 | FFC CABLE | 1 | | |
| | 14 | E207560-003SS | CASSETTE HOLDER | 1 | DECK A | |
| | 15 | E207561-003SS | CASSETTE HOLDER | 1 | DECK B | |
| | 16 | E406713-001 | CASSETTE SPRING | 4 | | |
| | 17 | E407304-001 | SPRING | 2 | | |
| | 18 | GBSF3006Z | SCREW | 2 | | |
| | 19 | E407447-007SM | EJECT SPRING | 1 | DECK A | |
| | 20 | E407447-008SM | EJECT SPRING | 1 | DECK B | |
| | 21 | E207567-001 | HOLDER BRACKET | 1 | | |
| | 22 | E308160-001SS | EJECT BUTTON | 1 | DECK A | |
| | 23 | E308161-001SS | EJECT BUTTON | 1 | DECK B | |
| | 24 | SBST3006M | SCREW | 4 | | |
| | 25 | ----- | CASSETTE MECHANISM ASSY | 1 | SEE PAGE 5-5 | |
| | 26 | SBSF3010C | SCREW | 4 | | |
| | 27 | SBST3008C | SCREW | 4 | | |
| | 28 | E308162-003SS | EJECT LEVER | 2 | | |
| | 29 | E407214-001 | SPECIAL SCREW | 4 | | |
| | 30 | E207534-003SS | FITTING | 1 | | |
| | 31 | E102358-332SS | TRAY | 1 | | |
| | 32 | SBSF3008M | SCREW | 3 | | |
| | 33 | ----- | CD MECHANISM ASSY | 1 | SEE PAGE 5-8 | |
| | 34 | EWS265-B410 | SOCKET WIRE ASSY | 1 | 5PIN | |
| | 35 | EWS266-B412 | SOCKET WIRE ASSY | 1 | 6PIN | |
| | 36 | EWR615M-11BBJ2 | FFC CABLE | 1 | 15PIN | |
| | 37 | E406293-002 | SPECIAL SCREW | 1 | | |
| | 38 | E306837-005 | CLAMPER BASE ASSY | 1 | | |
| | 38-1 | E306836-003 | YOKE | 1 | | |
| | 38-2 | E74897-002 | MAGNET | 1 | | |
| | 38-3 | E26756-002 | CLAMPER BASE | 1 | | |
| | 38-4 | E306835-001 | CLAMPER | 1 | | |
| | 39 | SBST3006Z | SCREW | 2 | | |
| | 40 | E102616-004SS | CHASSIS BASE | 1 | | |
| | 41 | EXO008008R40S | SPACER | 1 | | |
| | 42 | E75896-006 | FELT SPACER | 2 | REAR FOOT | |
| | 43 | SBST3008Z | SCREW | 6 | | |
| | 44 | SBSG3008N | SCREW | 8 | | |
| | 45 | E102688-003SM | CHASSIS BASE | 1 | | |

XT-S50RBK

| Item | Part Number | Part Name | Q'ty | Description | Areas |
|------|---------------|----------------|------|-------------|-------|
| 46 | E207787-223 | METAL COVER | 1 | | |
| 47 | SDSG3006M | SCREW | 2 | | |
| 48 | E73273-003 | SPECIAL SCREW | 7 | | |
| 49 | E207809-015SM | REAR PANEL | 1 | | BS |
| | E207809-015SM | REAR PANEL | 1 | | EF |
| | E207809-015SM | REAR PANEL | 1 | | EN |
| | E207809-015SM | REAR PANEL | 1 | | G |
| | E207809-015SM | REAR PANEL | 1 | | GI |
| 50 | EWP907-013 | PLUG CORD ASSY | 1 | | |
| 51 | EWP907-015 | FLAT WIRE ASSY | 1 | | |
| 52 | E304434-005 | DAMPER ASSY | 2 | | |
| 53 | 52868-3 | LUG | 2 | | G |
| | 52868-3 | LUG | 2 | | GI |
| 54 | SBSG3008CC | SCREW | 2 | | G |
| | SBSG3008CC | SCREW | 2 | | GI |
| - | E406507-001 | CAUTION LABEL | 1 | | |
| - | E70891-001 | CLASS 1 LABEL | 1 | | |

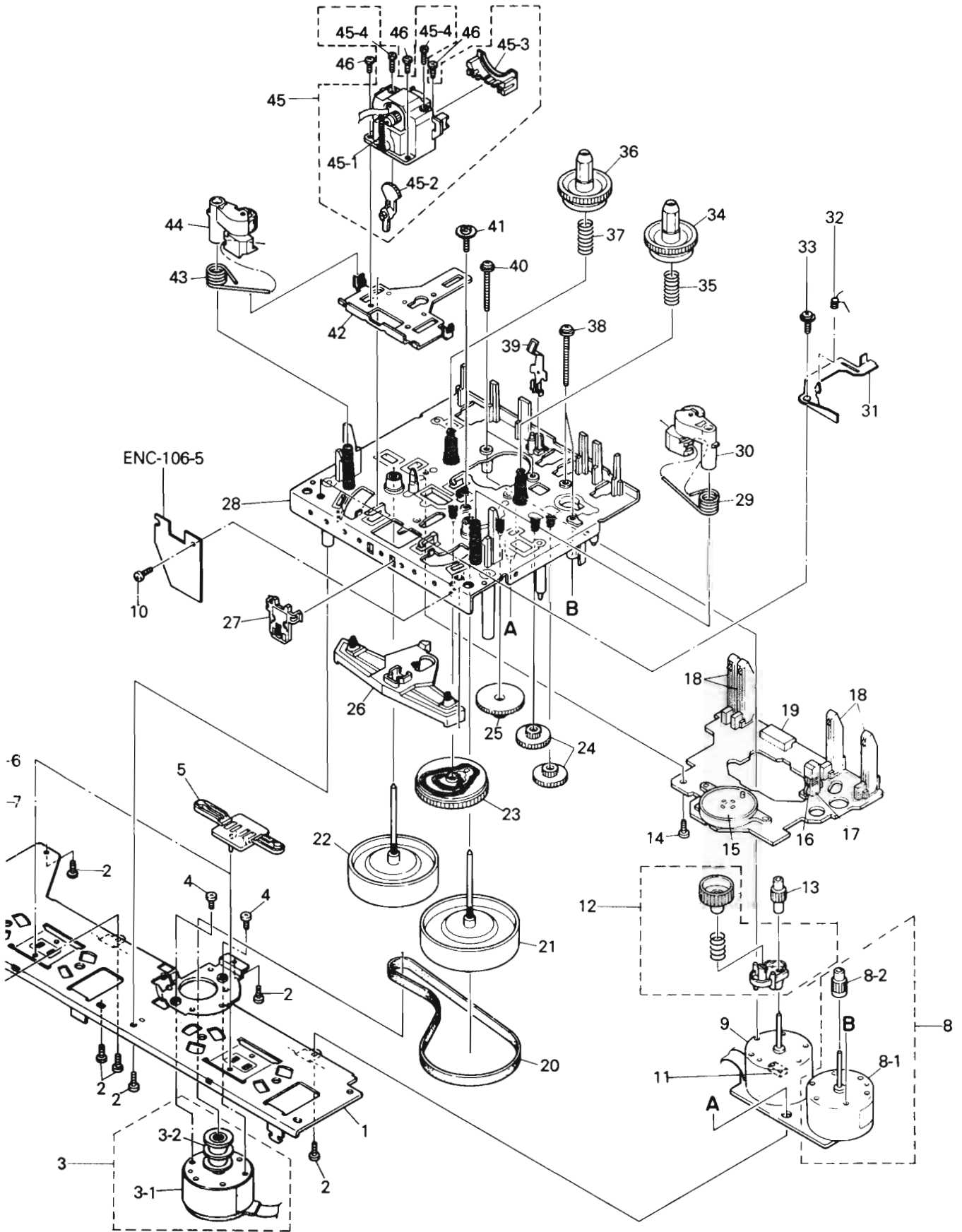
⚠ SAFETY PARTS

The Marks for Designated Areas

BS the U.K. EN Scandinavia EF Continental Europe

G Germany GI Italy

No mark indicates all areas.



Symbol No.

| | | | |
|---|---|---|---|
| M | 5 | M | M |
|---|---|---|---|

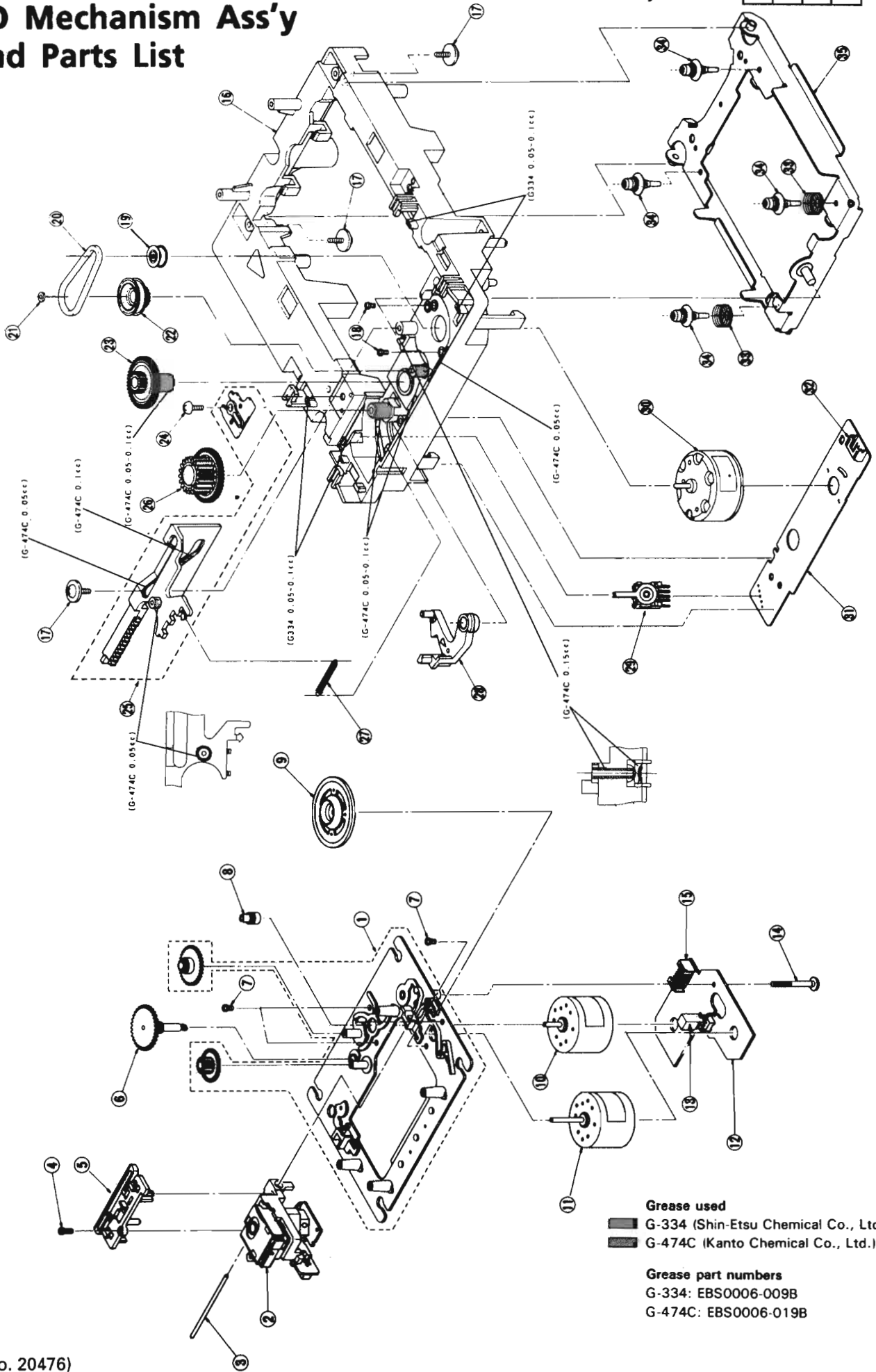
Parts List (Cassete Mechanism Ass'y)

| Item | Part Number | Part Name | Q'ty | Description | Areas |
|------|--------------|---------------------|------|---------------------------|-------|
| 1 | VKL7246-001 | EJECT BRACKET | 2 | | |
| 2 | VKS3551-00B | HEAD MOUNT ASSY | 1 | (B) | |
| 3 | GBSF3008Z | SCREW | 2 | | |
| 4 | VKB3001-054 | CAPSTAN BELT | 1 | (A) | |
| 5 | VKS5321-00D | TAKE-UP REEL DISK | 2 | RIGHT | |
| 6 | SDST2004Z | SCREW | 4 | FOR HEAD MOUNT ASSY | |
| 7 | VKL6942-00E | HEAD BASE | 2 | | |
| 8 | VKW4994-001 | HEAD SPRING | 2 | | |
| 9 | VKP4221-00C | PINCH ROLLER | 2 | LEFT | |
| 10 | VKW4982-001 | PINCH ROLLER SPRING | 2 | LEFT | |
| 11 | VKW4933-005 | TORSION SPRING | 2 | LEFT | |
| 12 | VKS1125-00A | CHASSIS BASE | 2 | | |
| 13 | VKW4930-002 | SPRING | 2 | | |
| 14 | VKS3480-005 | SUPPLY REEL DISK | 2 | LEFT | |
| 15 | VKW4928-003 | SPRING | 4 | FOR REEL ASSY | |
| 16 | VKL6940-002 | PINCH ROLLER LEVER | 2 | LEFT | |
| 17 | VKS2209-005 | CONTROL CAM | 2 | | |
| 18 | VKF3186-00C | FLYWHEEL | 2 | LEFT | |
| 19 | VKB3001-055 | CAPSTAN BELT | 1 | (B) | |
| 20 | VKF3184-00C | FLYWHEEL | 2 | RIGHT | |
| 21 | SDSF2608Z | SCREW | 2 | PCB - FM BRACKET | |
| 22 | MMN-6F4RA38 | DC MOTOR | 2 | REEL | |
| 23 | VKS5331-002 | ACTUATER GEAR | 2 | | |
| 24 | VKS5330-004 | DRIVE GEAR | 2 | | |
| 25 | MXN-13FB12F | DC MOTOR | 2 | CAM | |
| 26 | VKS5329-002 | PINION GEAR | 2 | | |
| 27 | SDSP2605Z | SCREW | 2 | CHASSIS BASE - MOTOR | |
| 28 | VKL6939-002 | PINCH ROLLER LEVER | 2 | RIGHT | |
| 29 | VKS5325-00F | F.F/REW.ARM | 2 | | |
| 30 | VKS5328-002 | REEL GEAR | 2 | | |
| 31 | VKS5327-003 | MECHA PLATE | 2 | | |
| 32 | VKY4628-002 | SPRING | 2 | | |
| 33 | VKP4219-00C | PINCH ROLLER | 2 | RIGHT | |
| 34 | VKW4981-001 | TORSION SPRING | 2 | RIGHT | |
| 35 | VKW4932-005 | TORSION SPRING | 2 | RIGHT | |
| 36 | E308162-001 | EJECT LEVER | 2 | | |
| 37 | E407214-001 | SPECIAL SCREW | 4 | | |
| 38 | VKS3550-00B | HEAD MOUNT | 1 | (A) | |
| 39 | VMW2362-001 | PRINTED BOARD | 2 | | |
| 40 | VKS3485-002 | TIMING GEAR | 2 | | |
| 41 | VMC0249-R08N | CONNECT TERMINAL | 1 | (B) | |
| 42 | VMC0234-R07 | CONNECT TERMINAL | 2 | | |
| 43 | DN6851A | I.C(DIGI-OTHER) | 2 | | |
| 44 | VKS3487-002 | IC HOLDER | 2 | | |
| 45 | VKS3587-00A | CAM SWITCH | 2 | | |
| 46 | WDL163525-4 | WASHER | 1 | | |
| 47 | VKR4631-003 | IDLER PULLEY | 1 | | |
| 48 | VKM3618-00A | FLYWHEEL BRACKET | 1 | | |
| 49 | SDSF2605Z | SCREW | 4 | CHASSIS BASE - FM BRACKET | |
| 50 | MMI-6H2LWSK | DC MOTOR | 1 | CAPSTAN | |
| 51 | VKR4632-002 | MOTOR PULLEY | 1 | | |
| 52 | SPSP2603Z | SCREW | 2 | | |
| 53 | VDM007P-024I | CONNECTOR WIRE ASSY | 1 | (B) | |
| 54 | VDM003P-040I | CONNECTOR WIRE ASSY | 1 | (A) | |
| 55 | VMC0249-R04N | CONNECT TERMINAL | 1 | (A) | |
| 56 | E407304-001 | SPRING | 2 | | |
| 57 | EMW4816-001 | CIRCUIT BOARD | 2 | | |

CD Mechanism Ass'y and Parts List

Symbol No.

| | | | |
|---|---|---|---|
| M | 6 | M | M |
|---|---|---|---|



Grease used
 G-334 (Shin-Etsu Chemical Co., Ltd.)
 G-474C (Kanto Chemical Co., Ltd.)

Grease part numbers
 G-334: EBS0006-009B
 G-474C: EBS0006-019B

■ Parts List (CD Mechanism Ass'y)

Symbol No.

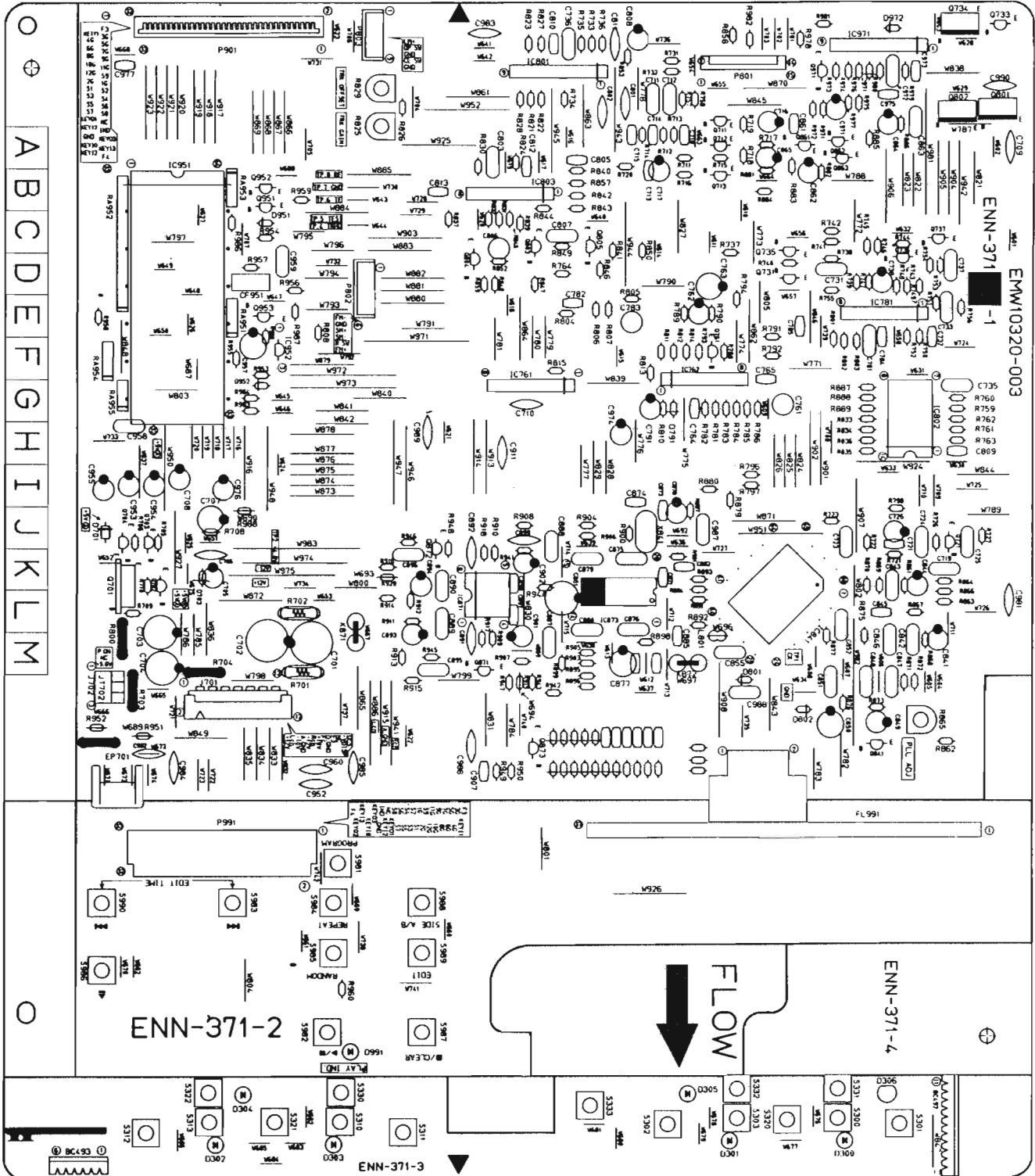
| | | | |
|---|---|---|---|
| M | 6 | M | M |
|---|---|---|---|

| Item | Part Number | Part Name | Q'ty | Description | Area |
|------|-----------------|---------------------|------|-------------|------|
| 1 | EPB-002A | MECHANISM BASE ASSY | 1 | | |
| 2 | OPTIMA-6S | PICK UP ASS'Y | 1 | | |
| 3 | E406777-001 | SHAFT | 1 | | |
| 4 | SDSF2006Z | SCREW | 1 | | |
| 5 | E307746-001 | CD RACK | 1 | | |
| 6 | EPB-003A | MECHANISM BASE ASSY | 1 | | |
| 7 | SDSP2003N | SCREW | 4 | | |
| 8 | E406750-001 | PINION GEAR | 1 | | |
| 9 | EPB-001C | TURNTABLE | 1 | | |
| 10 | E406784-001 | DC MOTOR | 1 | | |
| 11 | E406783-001 | DC MOTOR | 1 | | |
| 12 | EMW10190-001(S) | CIRCUIT BOARD | 1 | | |
| 13 | ESB1100-005 | LEAF SWITCH | 1 | | |
| 14 | E75832-001 | SPECIAL SCREW | 1 | | |
| 15 | EMV5109-006B | PLUG ASSY | 1 | 6PIN | |
| 16 | E102357-221 | LOADING BASE | 1 | | |
| 17 | E65923-003 | SCREW | 3 | | |
| 18 | SPSK2640Z | SCREW | 2 | | |
| 19 | E75984-001 | MOTOR PULLEY | 1 | | |
| 20 | E75950-002 | BELT | 1 | | |
| 21 | E72024-001 | SPEED NUT | 1 | | |
| 22 | E75985-001 | GEAR | 1 | | |
| 23 | E75986-002 | GEAR | 1 | | |
| 24 | SBSF3008Z | SCREW | 1 | | |
| 25 | E307252-221 | CAM - PLATE | 1 | | |
| 26 | E75987-001 | REEL GEAR | 1 | | |
| 27 | E75989-001 | SPRING | 1 | | |
| 28 | E307162-221 | LEVER | 1 | | |
| 29 | ESS1200-002 | SLIDE SWITCH | 1 | | |
| 30 | RF-500TB-12560 | MOTOR | 1 | | |
| 31 | EMW10255-002(S) | CIRCUIT BOARD | 1 | | |
| 32 | EMV5109-005B | PLUG ASSY | 1 | 5PIN | |
| 33 | E406871-001 | SPRING | 2 | | |
| 34 | E406294-002 | INSULATOR | 4 | | |
| 35 | E307179-221 | ELEVATOR BASE ASSY | 1 | | |

Printed Circuit Board Ass'y and Parts List

■ ENN-371 □ CD PC Board Ass'y

Note : ENN-371 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

| PC Board Ass'y | Version | Designated Areas |
|------------------|----------------|---|
| ENN-371 A | BS EN EF | the U.K. Scandinavia Continental Europe |
| ENN-371 D | G GI | Germany Italy |

Transistors

| Δ ITEM | PART NUMBER | DESCRIPTION | AREA |
|--------|---------------|------------------|------|
| Q701 | 2SB1187(E,F) | SI. TRANSIST | |
| Q702 | 2SC1740S(R,S) | SI. TRANSISTROHM | |
| Q703 | 2SA934(Q,R) | SI. TRANSISTROHM | |
| Q704 | DTA144ES | DIGITAL TRAROHM | |
| Q711 | 2SC535(B,C) | SI. TRANSIST | |
| Q712 | 2SC1740S(R,S) | SI. TRANSISTROHM | |
| Q713 | 2SA933S(R,S) | SI. TRANSIST | |
| Q721 | 2SD2144S(VW) | SI. TRANSISTROHM | |
| Q731 | 2SD2144S(VW) | SI. TRANSISTROHM | |
| Q733 | 2SC2060(Q,R) | SI. TRANSISTROHM | |
| Q734 | 2SB1357(E,F) | SI. TRANSISTROHM | |
| Q735 | DTA144WS | DIGITAL TRAROHM | |
| Q736 | 2SA933S(R,S) | SI. TRANSIST | |
| Q737 | 2SA933S(R,S) | SI. TRANSIST | |
| Q761 | 2SD2144S(VW) | SI. TRANSISTROHM | |
| Q801 | 2SD2037(E,F) | SI. TRANSISTROHM | |
| Q802 | 2SB1357(E,F) | SI. TRANSISTROHM | |
| Q803 | 2SD2144S(VW) | SI. TRANSISTROHM | |
| Q804 | 2SD2144S(VW) | SI. TRANSISTROHM | |
| Q805 | 2SD2144S(VW) | SI. TRANSISTROHM | |
| Q841 | 2SD2144S(VW) | SI. TRANSISTROHM | |
| Q861 | 2SA933S(R,S) | SI. TRANSIST | |
| Q862 | 2SC1740S(R,S) | SI. TRANSISTROHM | |
| Q863 | 2SC1740S(R,S) | SI. TRANSISTROHM | |
| Q871 | 2SD2144S(VW) | SI. TRANSISTROHM | |
| Q872 | 2SD2144S(VW) | SI. TRANSISTROHM | |
| Q873 | DTA144ES | DIGITAL TRAROHM | |
| Q951 | DTA114YS | DIGITAL TRAROHM | |
| Q952 | DTC114YS | DIGITAL TRAROHM | |
| Q953 | DTC114YS | DIGITAL TRAROHM | |
| Q971 | 2SA934(Q,R) | SI. TRANSISTROHM | |

Δ : SAFETY PARTS.

I.C.s

| Δ ITEM | PART NUMBER | DESCRIPTION | AREA |
|--------|---------------|-----------------------|------|
| IC761 | STA341M(A) | TRANSISTOR | |
| IC762 | M5218AL | I.C(MONO-ANMITSUBISHI | |
| IC781 | M5218AL | I.C(MONO-ANMITSUBISHI | |
| IC801 | NJM072S | I.C(MONO-ANDAINICHI | |
| IC802 | BA10339 | I.C(MONO-ANROHM | |
| IC803 | M5218AL | I.C(MONO-ANMITSUBISHI | |
| IC841 | YM7121C | I.C(DIGI-MOYAMAMA | |
| IC871 | BA1521B | I.C(MONO-ANROHM | |
| IC873 | MN35501 | I.C(DIGI-MOMATSUSHITA | |
| IC951 | HD404019RC11S | I.C(MICRO-CHITACHI | |
| IC952 | MN1281(P,Q) | I.C(DIGI-MOMATSUSHITA | |
| IC971 | NJM2904S | I.C(MONO-ANDAINICHI | |

Δ : SAFETY PARTS.

Diodes

| Δ ITEM | PART NUMBER | DESCRIPTION | AREA |
|--------|--------------|-----------------|------|
| D300 | SLR-342MCA47 | L.E.D. ROHM | |
| D301 | SLR-342MCA47 | L.E.D. ROHM | |
| D302 | SLR-342MCA47 | L.E.D. ROHM | |
| D303 | SLR-342MCA47 | L.E.D. ROHM | |
| D304 | SLR-342VC3F | L.E.D. ROHM | |
| D305 | SLR-342VC3F | L.E.D. ROHM | |
| D306 | SPR-39MVWF | L.E.D. ROHM | |
| D701 | 1SR139-200 | SI. DIODE ROHM | |
| D703 | MTZ5.6JB | ZENER DIODEROHM | |
| D791 | 1SS119 | SI. DIODE | |
| D951 | 1SS119 | SI. DIODE | |
| D952 | 1SS119 | SI. DIODE | |
| D971 | MTZ2.4JB | ZENER DIODEROHM | |
| D972 | 1SS119 | SI. DIODE | |
| D991 | SLR-342MCA47 | L.E.D. ROHM | |

Δ : SAFETY PARTS.

Capacitors

| Δ ITEM | PART NUMBER | DESCRIPTION | AREA |
|--------|--------------|------------------------|------|
| C701 | QETB1CM-108 | 1000MF 16V AL E.CAPAC | IT |
| C702 | QETB1CM-108 | 1000MF 16V AL E.CAPAC | IT |
| C703 | QETB1CM-227 | 220MF 16V AL E.CAPAC | IT |
| C704 | QETB1CM-227 | 220MF 16V AL E.CAPAC | IT |
| C705 | QETB1CM-476 | 47MF 16V AL E.CAPAC | IT |
| C706 | QCF21HP-223A | 0.022MF 50V CER.CAPACI | TO |
| C707 | QETBOJM-227 | 220MF 6.3V E.CAPACITO | R |
| C708 | QETB1AM-107 | 100MF 10V AL E.CAPAC | IT |
| C709 | QCF21HP-223A | 0.022MF 50V CER.CAPACI | TO |
| C710 | QCF21HP-223A | 0.022MF 50V CER.CAPACI | TO |
| C711 | QFLB1HJ-472 | 4700PF 50V MYLAR CAPA | CI |
| C712 | QFLB1HJ-472 | 4700PF 50V MYLAR CAPA | CI |
| C713 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO |
| C714 | QCSB1HK-3R9 | 5.9PF 50V CER.CAPACI | TO |
| C715 | QCSB1HK-471Y | 470PF 50V CER.CAPACI | TO |
| C716 | QETB1EM-106 | 10MF 25V AL E.CAPAC | IT |
| C717 | QETB1CM-476 | 47MF 16V AL E.CAPAC | IT |
| C718 | QCSB1HK-101Y | 100PF 50V CER.CAPACI | TO |
| C719 | QFLB1HJ-183 | 0.018MF 50V MYLAR CAPA | CI |
| C721 | QCSB1HJ-470 | 47PF 50V CER.CAPACI | TO |
| C723 | QCZ0202-155 | 1.5MF 25V CER.RESIST | OR |
| C724 | QFLB1HJ-563 | 0.056MF 50V MYLAR CAPA | CI |
| C725 | QFV81HJ-564 | 0.56MF 50V THIN FILM | CA |
| C726 | QETB1EM-106 | 10MF 25V AL E.CAPAC | IT |
| C731 | QFLB1HJ-183 | 0.018MF 50V MYLAR CAPA | CI |
| C732 | QCSB1HK-271Y | 270PF 50V CER.CAPACI | TO |
| C733 | QFLB1HJ-393 | 0.039MF 50V MYLAR CAPA | CI |
| C735 | QFV81HJ-104 | 0.1MF 50V THIN FILM | CA |
| C736 | QFV81HJ-224 | 0.22MF 50V THIN FILM | CA |
| C737 | QFV81HJ-104 | 0.1MF 50V THIN FILM | CA |
| C738 | QETB1CM-476 | 47MF 16V AL E.CAPAC | IT |
| C761 | QEN51HM-225 | 2.2MF 50V NP E.CAPAC | IT |
| C762 | QETB1EM-226 | 22MF 25V E.CAPACITO | R |
| C763 | QETBOJM-227 | 220MF 6.3V E.CAPACITO | R |
| C764 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO |
| C765 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO |
| C781 | QFLB1HJ-272 | 2700PF 50V MYLAR CAPA | CI |
| C782 | QCSB1HK-101Y | 100PF 50V CER.CAPACI | TO |
| C783 | QEN51HM-225 | 2.2MF 50V NP E.CAPAC | IT |
| C784 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO |
| C785 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO |
| C791 | QETB1HM-475E | 4.7MF 50V E.CAPACITO | R |
| C801 | QCT26CH-151 | 150PF 50V CER.CAPACI | TO |
| C802 | QCT26CH-101 | 100PF 50V CER.CAPACI | TO |
| C803 | QFLB1HJ-223 | 0.022MF 50V MYLAR CAPA | CI |
| C805 | QCSB1HJ-470 | 47PF 50V CER.CAPACI | TO |
| C806 | QEN51HM-225 | 2.2MF 50V NP E.CAPAC | IT |
| C807 | QFLB1HJ-563 | 0.056MF 50V MYLAR CAPA | CI |
| C808 | QETB1CM-476 | 47MF 16V AL E.CAPAC | IT |
| C809 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO |
| C810 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO |
| C811 | QCF21HP-223A | 0.022MF 50V CER.CAPACI | TO |
| C812 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO |
| C813 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO |
| C841 | QETB1AM-107 | 100MF 10V AL E.CAPAC | IT |
| C842 | QFV81HJ-104 | 0.1MF 50V THIN FILM | CA |
| C843 | QFV81HJ-104 | 0.1MF 50V THIN FILM | CA |
| C844 | QETB1EM-106 | 10MF 25V AL E.CAPAC | IT |
| C845 | QCSB1HK-101Y | 100PF 50V CER.CAPACI | TO |
| C846 | QFV81HJ-105 | 1MF 50V THIN FILM | CA |
| C847 | QFLB1HJ-182 | 1800PF 50V MYLAR CAPA | CI |
| C848 | QFV81HJ-224 | 0.22MF 50V THIN FILM | CA |
| C849 | QETB1EM-106 | 10MF 25V AL E.CAPAC | IT |
| C850 | QETBOJM-227 | 220MF 6.3V E.CAPACITO | R |
| C851 | QFV81HJ-104 | 0.1MF 50V THIN FILM | CA |
| C852 | QFV81HJ-104 | 0.1MF 50V THIN FILM | CA |
| C855 | QFLB1HJ-473 | 0.047MF 50V MYLAR CAPA | CI |
| C861 | QCSB1HK-101Y | 100PF 50V CER.CAPACI | TO |
| C862 | QETB1CM-107 | 100MF 16V AL E.CAPAC | IT |
| C863 | QFLB1HJ-473 | 0.047MF 50V MYLAR CAPA | CI |
| C864 | QETB1EM-106 | 10MF 25V AL E.CAPAC | IT |
| C865 | QETB1HM-105 | 1MF 50V AL E.CAPAC | IT |
| C873 | QCT30CH-120Y | 12PF 50V CER.CAPACI | TO |
| C874 | QCT30CH-3R9Y | 3.9PF 50V CER.CAPACI | TO |
| C875 | QCZ0202-155 | 1.5MF 25V CER.RESIST | OR |
| C876 | QCZ0202-155 | 1.5MF 25V CER.RESIST | OR |
| C877 | QETBOJM-227 | 220MF 6.3V E.CAPACITO | R |
| C879 | QCZ0202-155 | 1.5MF 25V CER.RESIST | OR |
| C880 | QCZ0202-155 | 1.5MF 25V CER.RESIST | OR |
| C881 | QETBOJM-477 | 470MF 6.3V AL E.CAPAC | IT |
| C882 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO |
| C887 | QFLB1HJ-152 | 1500PF 50V MYLAR CAPA | CI |
| C888 | QFLB1HJ-152 | 1500PF 50V MYLAR CAPA | CI |
| C889 | QFLB1HJ-122 | 1200PF 50V MYLAR CAPA | CI |
| C890 | QFLB1HJ-122 | 1200PF 50V MYLAR CAPA | CI |
| C891 | QCS21HJ-121 | 120PF 50V CER.CAPACI | TO |
| C892 | QCS21HJ-121 | 120PF 50V CER.CAPACI | TO |
| C893 | EEZ2505-226 | 22MF AL E.CAPAC | IT |
| C894 | EEZ2505-226 | 22MF AL E.CAPAC | IT |
| C895 | QFLB1HJ-683 | 0.068MF 50V MYLAR CAPA | CI |
| C896 | QFLB1HJ-683 | 0.068MF 50V MYLAR CAPA | CI |
| C897 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO |
| C898 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO |
| C899 | QCY31HK-122Z | 1200PF 50V CER.CAPACI | TO |
| C907 | QCVB1CM-103Y | 0.01MF 16V CER.CAPACI | TO |

Δ : SAFETY PARTS.

XT-S50RBK

Capacitors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|------------------------|-------|
| | C953 | QETB1HM-475E | 4.7MF 50V E.CAPACITO | R |
| | C954 | QETB1HM-475E | 4.7MF 50V E.CAPACITO | R |
| | C955 | QETB1HM-226E | 22MF 50V E.CAPACITO | R |
| | C957 | QETB1AM-227 | 220MF 10V E.CAPACITO | R |
| | C958 | QCZ0202-155 | 1.5MF 25V CER.RESIST | DR |
| | C959 | QFV81HJ-104 | 0.1MF 50V THIN FILM | CA BS |
| | C959 | QFV81HJ-104 | 0.1MF 50V THIN FILM | CA EF |
| | C959 | QFV81HJ-104 | 0.1MF 50V THIN FILM | CA EN |
| | C959 | QFV81HJ-104 | 0.1MF 50V THIN FILM | CA G |
| | C959 | QFV81HJ-104 | 0.1MF 50V THIN FILM | CA GI |
| | C971 | QETB1CM-476 | 47MF 16V AL E.CAPAC | IT |
| | C972 | QFLB1HJ-103 | 0.01MF 50V MYLAR CAPA | CI |
| | C973 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO |
| | C974 | QETB1AM-107 | 100MF 10V AL E.CAPAC | IT |
| | C975 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO |
| | C976 | QETB1HM-475E | 4.7MF 50V E.CAPACITO | R |
| | C984 | QCS21HJ-470 | 47PF 50V CER.CAPACI | TO G |
| | C984 | QCS21HJ-470 | 47PF 50V CER.CAPACI | TO GI |
| | C987 | QCZ0202-155 | 1.5MF 25V CER.RESIST | DR |
| | C988 | QCZ0202-155 | 1.5MF 25V CER.RESIST | DR |

Δ : ISIA:PEITY :PARTS:

Resistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|----------------|----------------------|------|
| Δ | R701 | PTH61G25AR4R7M | FUSIBLE RE | SI |
| Δ | R702 | PTH61G25AR4R7M | FUSIBLE RE | SI |
| Δ | R703 | QRZ0077-100 | 10 1/4W FUSIBLE RE | SI |
| Δ | R704 | QRZ0077-100 | 10 1/4W FUSIBLE RE | SI |
| | R705 | QRD167J-472 | 4.7K 1/6W CARBON RES | IS |
| | R706 | QRD161J-331 | 330 1/6W CARBON RES | IS |
| | R708 | QRD167J-472 | 4.7K 1/6W CARBON RES | IS |
| | R709 | QRD161J-122 | 1.2K 1/6W CARBON RES | IS |
| | R710 | QRD167J-121 | 120 1/6W CARBON RES | IS |
| | R711 | QRD161J-183 | 18K 1/6W CARBON RES | IS |
| | R712 | QRD161J-432 | 4.3K 1/6W CARBON RES | IS |
| | R713 | QRD167J-391 | 390 1/6W CARBON RES | IS |
| | R714 | QRD161J-221 | 220 1/6W CARBON RES | IS |
| | R715 | QRD167J-152 | 1.5K 1/6W CARBON RES | IS |
| | R716 | QRD161J-561 | 560 1/6W CARBON RES | IS |
| | R717 | QRD167J-431 | 430 1/6W CARBON RES | IS |
| | R718 | QRD161J-512 | 5.1K 1/6W CARBON RES | IS |
| | R719 | QRD167J-152 | 1.5K 1/6W CARBON RES | IS |
| | R720 | QRD167J-271 | 270 1/6W CARBON RES | IS |
| | R721 | QRD167J-471 | 470 1/6W CARBON RES | IS |
| | R722 | QRD167J-682 | 6.8K 1/6W CARBON RES | IS |
| | R723 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R726 | QRD167J-102 | 1K 1/6W CARBON RES | IS |
| | R727 | QRD161J-183 | 18K 1/6W CARBON RES | IS |
| | R731 | QRD167J-104 | 100K 1/6W CARBON RES | IS |
| | R732 | QRD167J-104 | 100K 1/6W CARBON RES | IS |
| | R733 | QRD167J-394 | 390K 1/6W CARBON RES | IS |
| | R734 | QRD167J-394 | 390K 1/6W CARBON RES | IS |
| | R735 | QRD167J-121 | 120 1/6W CARBON RES | IS |
| | R736 | QRD167J-182 | 1.8K 1/6W CARBON RES | IS |
| | R737 | QRD161J-681 | 680 1/6W CARBON RES | IS |
| | R738 | QRD167J-473 | 47K 1/6W CARBON RES | IS |
| | R739 | QRD161J-331 | 330 1/6W CARBON RES | IS |
| | R740 | QRD161J-183 | 18K 1/6W CARBON RES | IS |
| | R741 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R742 | QRD167J-104 | 100K 1/6W CARBON RES | IS |
| | R743 | QRD167J-474 | 470K 1/6W CARBON RES | IS |
| | R744 | QRD167J-562 | 5.6K 1/6W CARBON RES | IS |
| | R745 | QRD161J-184 | 180K 1/6W CARBON RES | IS |
| | R746 | QRD161J-183 | 18K 1/6W CARBON RES | IS |
| | R747 | QRD167J-473 | 47K 1/6W CARBON RES | IS |
| | R748 | QRD167J-471 | 470 1/6W CARBON RES | IS |
| | R749 | QRD161J-105 | 1M 1/6W CARBON RES | IS |
| | R750 | QRD161J-273 | 27K 1/6W CARBON RES | IS |
| | R751 | QRD167J-394 | 390K 1/6W CARBON RES | IS |
| | R752 | QRD161J-333 | 33K 1/6W CARBON RES | IS |
| | R753 | QRD167J-394 | 390K 1/6W CARBON RES | IS |
| | R754 | QRD167J-102 | 1K 1/6W CARBON RES | IS |
| | R755 | QRD161J-105 | 1M 1/6W CARBON RES | IS |
| | R756 | QRD161J-221 | 220 1/6W CARBON RES | IS |
| | R757 | QRD161J-105 | 1M 1/6W CARBON RES | IS |
| | R758 | QRD161J-105 | 1M 1/6W CARBON RES | IS |
| | R759 | QRD167J-104 | 100K 1/6W CARBON RES | IS |
| | R760 | QRD167J-332 | 3.3K 1/6W CARBON RES | IS |
| | R761 | QRD167J-104 | 100K 1/6W CARBON RES | IS |
| | R762 | QRD167J-682 | 6.8K 1/6W CARBON RES | IS |
| | R763 | QRD167J-562 | 5.6K 1/6W CARBON RES | IS |
| | R764 | QRD161J-183 | 18K 1/6W CARBON RES | IS |
| | R781 | QRD167J-434 | 430K 1/6W CARBON RES | IS |
| | R782 | QRD161J-274 | 270K 1/6W CARBON RES | IS |
| | R783 | QRD161J-203 | 20K 1/6W CARBON RES | IS |
| | R784 | QRD167J-224 | 220K 1/6W CARBON RES | IS |
| | R785 | QRD167J-562 | 5.6K 1/6W CARBON RES | IS |
| | R786 | QRD167J-392 | 3.9K 1/6W CARBON RES | IS |
| | R788 | QRD167J-103 | 10K 1/6W CARBON RES | IS |

Δ : ISIA:PEITY :PARTS:

Resistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|----------------------|------|
| | R789 | QRD167J-102 | 1K 1/6W CARBON RES | IS |
| | R790 | QRD167J-471 | 470 1/6W CARBON RES | IS |
| | R791 | QRD167J-683 | 68K 1/6W CARBON RES | IS |
| | R792 | QRD161J-183 | 18K 1/6W CARBON RES | IS |
| | R793 | QRD161J-183 | 18K 1/6W CARBON RES | IS |
| | R794 | QRD161J-221 | 220 1/6W CARBON RES | IS |
| | R796 | QRD167J-472 | 4.7K 1/6W CARBON RES | IS |
| | R797 | QRD167J-472 | 4.7K 1/6W CARBON RES | IS |
| | R798 | QRD167J-472 | 4.7K 1/6W CARBON RES | IS |
| Δ | R800 | QRZ0077-4R7 | 4.7 1/4W FUSE RESIS | TO |
| | R801 | QRD167J-474 | 470K 1/6W CARBON RES | IS |
| | R802 | QRD167J-474 | 470K 1/6W CARBON RES | IS |
| | R803 | QRD167J-823 | 82K 1/6W CARBON RES | IS |
| | R804 | QRD161J-221 | 220 1/6W CARBON RES | IS |
| | R805 | QRD167J-683 | 68K 1/6W CARBON RES | IS |
| | R806 | QRD167J-123 | 12K 1/6W CARBON RES | IS |
| | R807 | QRD167J-152 | 1.5K 1/6W CARBON RES | IS |
| | R808 | QRD167J-2R2 | 2.2 1/6W CARBON RES | IS |
| | R810 | QRD161J-684 | 680K 1/6W CARBON RES | IS |
| | R811 | QRD161J-513 | 51K 1/6W CARBON RES | IS |
| | R812 | QRD161J-513 | 51K 1/6W CARBON RES | IS |
| | R813 | QRD167J-683 | 68K 1/6W CARBON RES | IS |
| | R814 | QRD167J-683 | 68K 1/6W CARBON RES | IS |
| | R815 | QRD161J-221 | 220 1/6W CARBON RES | IS |
| | R821 | QRD167J-563 | 56K 1/6W CARBON RES | IS |
| | R822 | QRD167J-563 | 56K 1/6W CARBON RES | IS |
| | R823 | QRD167J-394 | 390K 1/6W CARBON RES | IS |
| | R824 | QRD161J-681 | 680 1/6W CARBON RES | IS |
| | R825 | QVPA601-202A | 2K TRIMMER RE | SI |
| | R826 | QRD161J-122 | 1.2K 1/6W CARBON RES | IS |
| | R827 | QRD167J-334 | 330K 1/6W CARBON RES | IS |
| | R828 | QRD161J-512 | 5.1K 1/6W CARBON RES | IS |
| | R829 | QVPA601-154A | 150K TRIMMER RE | SI |
| | R830 | QRD167J-223 | 22K 1/6W CARBON RES | IS |
| | R831 | QRD167J-682 | 6.8K 1/6W CARBON RES | IS |
| | R832 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R833 | QRD167J-562 | 5.6K 1/6W CARBON RES | IS |
| | R834 | QRD167J-562 | 5.6K 1/6W CARBON RES | IS |
| | R835 | QRD167J-562 | 5.6K 1/6W CARBON RES | IS |
| | R836 | QRD167J-562 | 5.6K 1/6W CARBON RES | IS |
| | R837 | QRD161J-183 | 18K 1/6W CARBON RES | IS |
| | R839 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R840 | QRD167J-154 | 150K 1/6W CARBON RES | IS |
| | R841 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R842 | QRD161J-303Y | 30K 1/6W CARBON RES | IS |
| | R843 | QRD167J-434 | 430K 1/6W CARBON RES | IS |
| | R844 | QRD167J-434 | 430K 1/6W CARBON RES | IS |
| | R845 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R846 | QRD161J-184 | 180K 1/6W CARBON RES | IS |
| | R847 | QRD167J-104 | 100K 1/6W CARBON RES | IS |
| | R848 | QRD167J-104 | 100K 1/6W CARBON RES | IS |
| | R849 | QRD161J-681 | 680 1/6W CARBON RES | IS |
| | R850 | QRD161J-183 | 18K 1/6W CARBON RES | IS |
| | R852 | QRD167J-102 | 1K 1/6W CARBON RES | IS |
| | R853 | QRD167J-562 | 5.6K 1/6W CARBON RES | IS |
| | R857 | QRD161J-221 | 220 1/6W CARBON RES | IS |
| | R858 | QRD167J-562 | 5.6K 1/6W CARBON RES | IS |
| | R859 | QRD161J-183 | 18K 1/6W CARBON RES | IS |
| | R861 | QRD167J-182 | 1.8K 1/6W CARBON RES | IS |
| | R862 | QRD161J-221 | 220 1/6W CARBON RES | IS |
| | R863 | QRD161J-184 | 180K 1/6W CARBON RES | IS |
| | R864 | QRD167J-393 | 39K 1/6W CARBON RES | IS |
| | R865 | QVPA601-104A | 100K TRIMMER RE | SI |
| | R866 | QRD167J-224 | 220K 1/6W CARBON RES | IS |
| | R867 | QRD167J-182 | 1.8K 1/6W CARBON RES | IS |
| | R868 | QRD161J-122 | 1.2K 1/6W CARBON RES | IS |
| | R869 | QRD167J-822 | 8.2K 1/6W CARBON RES | IS |
| | R870 | QRD167J-822 | 8.2K 1/6W CARBON RES | IS |
| | R871 | QRD161J-821 | 820 1/6W CARBON RES | IS |
| | R872 | QRD167J-182 | 1.8K 1/6W CARBON RES | IS |
| | R873 | QRD161J-101 | 100 1/6W CARBON RES | IS |
| | R875 | QRD167J-682 | 6.8K 1/6W CARBON RES | IS |
| | R876 | QRD167J-682 | 6.8K 1/6W CARBON RES | IS |
| | R877 | QRD167J-102 | 1K 1/6W CARBON RES | IS |
| | R879 | QRD167J-102 | 1K 1/6W CARBON RES | IS |
| | R880 | QRD167J-102 | 1K 1/6W CARBON RES | IS |
| | R881 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R882 | QRD167J-272 | 2.7K 1/6W CARBON RES | IS |
| | R883 | QRD167J-102 | 1K 1/6W CARBON RES | IS |
| | R884 | QRD167J-271 | 270 1/6W CARBON RES | IS |
| | R885 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R886 | QRD167J-562 | 5.6K 1/6W CARBON RES | IS |
| | R887 | QRD167J-472 | 4.7K 1/6W CARBON RES | IS |
| | R888 | QRD167J-822 | 8.2K 1/6W CARBON RES | IS |
| | R889 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R891 | QRD161J-561 | 560 1/6W CARBON RES | IS |
| | R892 | QRD161J-561 | 560 1/6W CARBON RES | IS |
| | R893 | QRD161J-561 | 560 1/6W CARBON RES | IS |
| | R894 | QRD161J-561 | 560 1/6W CARBON RES | IS |
| | R895 | QRD167J-560 | 56 1/6W CARBON RES | IS |
| | R896 | QRD167J-560 | 56 1/6W CARBON RES | IS |
| | R897 | QRD161J-101 | 100 1/6W CARBON RES | IS |
| | R898 | QRD161J-561 | 560 1/6W CARBON RES | IS |
| | R899 | QRD167J-271 | 270 1/6W CARBON RES | IS |
| | R900 | QRD161J-330 | 33 1/6W CARBON RES | IS |

Δ : ISIA:PEITY :PARTS:

Resistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|-------|--------------|-------------|-------|------------|------|
| | R901 | QRD161J-105 | 1M | 1/6W | CARBON RES | IS |
| | R903 | QRD161J-273 | 27K | 1/6W | CARBON RES | IS |
| | R904 | QRD161J-273 | 27K | 1/6W | CARBON RES | IS |
| | R905 | QRD161J-273 | 27K | 1/6W | CARBON RES | IS |
| | R906 | QRD161J-273 | 27K | 1/6W | CARBON RES | IS |
| | R907 | QRD167J-392 | 3.9K | 1/6W | CARBON RES | IS |
| | R908 | QRD167J-392 | 3.9K | 1/6W | CARBON RES | IS |
| | R909 | QRD167J-472 | 4.7K | 1/6W | CARBON RES | IS |
| | R910 | QRD167J-472 | 4.7K | 1/6W | CARBON RES | IS |
| | R911 | QRD161J-273 | 27K | 1/6W | CARBON RES | IS |
| | R912 | QRD161J-273 | 27K | 1/6W | CARBON RES | IS |
| | R913 | QRD161J-561 | 560 | 1/6W | CARBON RES | IS |
| | R914 | QRD161J-561 | 560 | 1/6W | CARBON RES | IS |
| | R915 | QRD161J-221 | 220 | 1/6W | CARBON RES | IS |
| | R916 | QRD161J-221 | 220 | 1/6W | CARBON RES | IS |
| | R917 | QRD161J-183 | 18K | 1/6W | CARBON RES | IS |
| | R918 | QRD161J-183 | 18K | 1/6W | CARBON RES | IS |
| | R941 | QRD167J-182 | 1.8K | 1/6W | CARBON RES | IS |
| | R942 | QRD161J-512 | 5.1K | 1/6W | CARBON RES | IS |
| | R943 | QRD161J-181 | 180 | 1/6W | CARBON RES | IS |
| | R944 | QRD167J-682 | 6.8K | 1/6W | CARBON RES | IS |
| | R945 | QRD167J-104 | 100K | 1/6W | CARBON RES | IS |
| | R946 | QRD167J-104 | 100K | 1/6W | CARBON RES | IS |
| | R947 | QRD167J-392 | 3.9K | 1/6W | CARBON RES | IS |
| | R948 | QRD167J-392 | 3.9K | 1/6W | CARBON RES | IS |
| | R949 | QRD161J-684 | 680K | 1/6W | CARBON RES | IS |
| | R950 | QRD167J-154 | 150K | 1/6W | CARBON RES | IS |
| | R953 | QRD167J-471 | 470 | 1/6W | CARBON RES | IS |
| | R954 | QRD167J-473 | 47K | 1/6W | CARBON RES | IS |
| | R955 | QRD167J-103 | 10K | 1/6W | CARBON RES | IS |
| | R956 | QRD167J-472 | 4.7K | 1/6W | CARBON RES | IS |
| | R957 | QRD161J-105 | 1M | 1/6W | CARBON RES | IS |
| | R958 | QRD167J-473 | 47K | 1/6W | CARBON RES | IS |
| | R959 | QRD167J-472 | 4.7K | 1/6W | CARBON RES | IS |
| | R960 | QRD167J-151 | 150 | 1/6W | CARBON RES | IS |
| | R968 | QRD167J-222 | 2.2K | 1/6W | CARBON RES | IS |
| | R971 | QRD161J-220 | 22 | 1/6W | CARBON RES | IS |
| | R972 | QRD161J-220 | 22 | 1/6W | CARBON RES | IS |
| | R973 | QRD167J-102 | 1K | 1/6W | CARBON RES | IS |
| | R974 | QRD161J-105 | 1M | 1/6W | CARBON RES | IS |
| | R975 | QRD161J-331 | 330 | 1/6W | CARBON RES | IS |
| | R976 | QRD161J-183 | 18K | 1/6W | CARBON RES | IS |
| | R977 | QRD167J-102 | 1K | 1/6W | CARBON RES | IS |
| | R978 | QRD167J-103 | 10K | 1/6W | CARBON RES | IS |
| | R979 | QRD167J-103 | 10K | 1/6W | CARBON RES | IS |
| | R980 | QRD167J-104 | 100K | 1/6W | CARBON RES | IS |
| | R981 | QRD167J-222 | 2.2K | 1/6W | CARBON RES | IS |
| | R982 | QRD161J-910Y | 91 | 1/6W | CARBON RES | IS |
| | R986 | QRD167J-103 | 10K | 1/6W | CARBON RES | IS |
| | R987 | QRD167J-473 | 47K | 1/6W | CARBON RES | IS |
| | R988 | QRD167J-102 | 1K | 1/6W | CARBON RES | IS |
| | RA951 | GRB049J-102 | 1K | 1/10W | NETWORK RE | SI |

Δ : SAFETY PARTS

Others

| Δ | ITEM | PART NUMBER | DESCRIPTION | | AREA |
|---|-------|----------------|-----------------------------|--|------|
| | S990 | ESP0001-023ZJ5 | TACT SWITCH(FOW.AUTQSEARCH) | | |
| | X841 | ECX0169-344KL | CRYSTAL | | |
| | BC492 | EWS32B-A930 | SOCKET WIRE ASSY(11PIN) | | |
| | BC493 | EWS326-A920 | SOCKET WIRE ASSY(6PIN) | | |
| | CF951 | ECX0004-194KM | CERAMIC RESONATOR | | |
| | EP701 | E70225-001 | EARTH PLATE | | |
| | FL991 | ELU0001-151 | FLUORESCENT DISPLAY TUBE | | |
| | JT702 | EMV7122-103 | CONNECT TERMINAL(3PIN) | | |

Δ : SAFETY PARTS

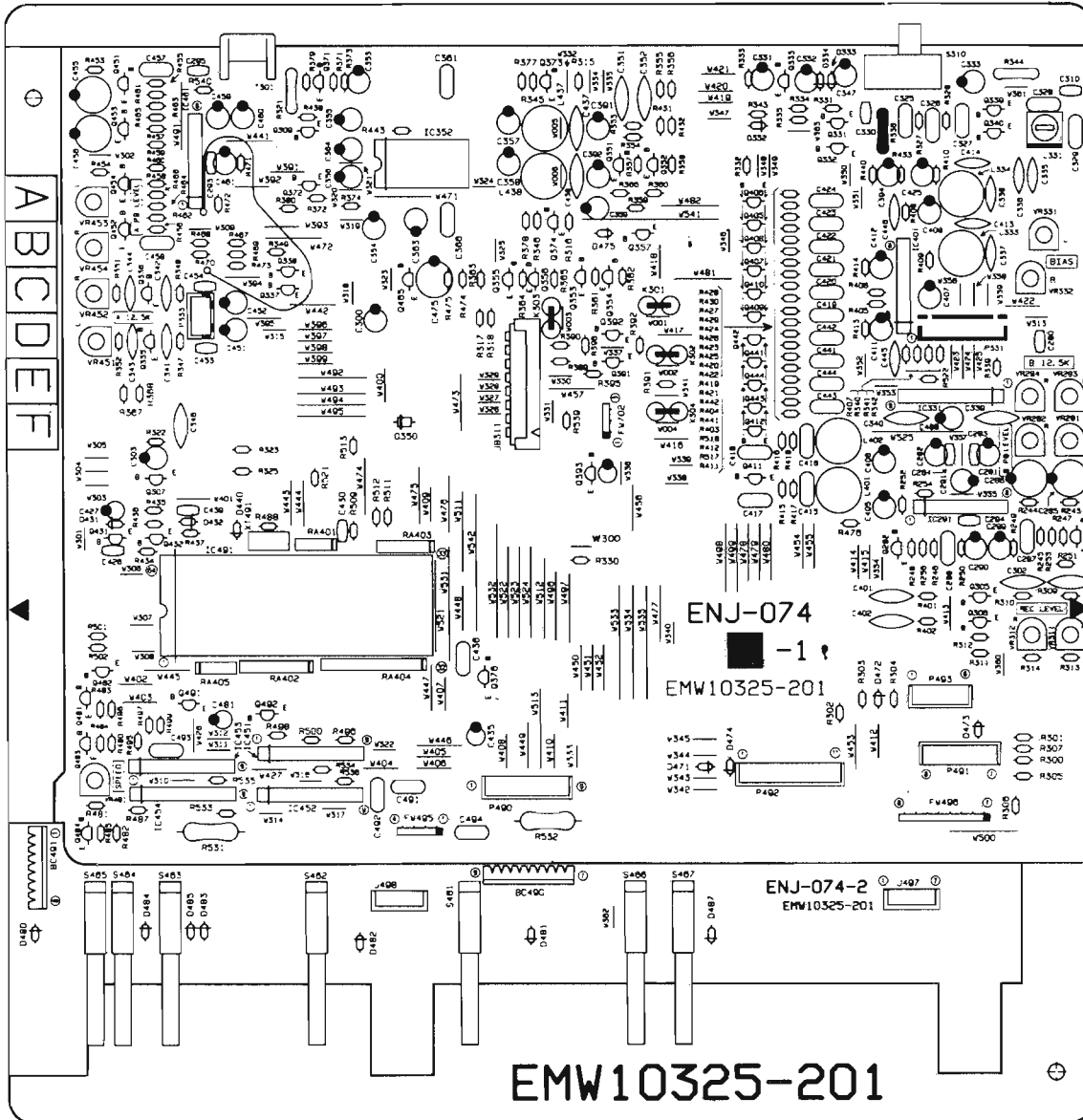
Others

| Δ | ITEM | PART NUMBER | DESCRIPTION | | AREA |
|---|------|----------------|---------------------------------|--|------|
| | | VYH7653-005 | I.C.PROTECTOR | | |
| | | VYH7653-002 | I.C.SOCKET | | |
| | | E407620-001 | SPACER | | |
| | | E306805-075 | FELT SPACER | | |
| | | E308432-001 | FL.HOLDER | | |
| | J701 | EMV7141-013M | CONNECT TERMINAL(13PIN) | | |
| | P801 | EKV7144-015 | F.P.C.PLUG(15PIN) | | |
| | P802 | EMV5109-006A | CONNECT TERMINAL(6PIN) | | |
| | P803 | EMV5109-005A | MALE CONNECTOR(5PIN) | | |
| | P901 | EMV7123-033 | FEMALE CONNECTOR(33PIN) | | |
| | P991 | EMV7123-033R | FEMALE CONNECTOR(33PIN) | | |
| | S300 | ESP0001-023ZJ5 | TACT SWITCH(B.WPLAY)A Mecha | | |
| | S301 | ESP0001-023ZJ5 | TACT SWITCH(REW)A Mecha | | |
| | S302 | ESP0001-023ZJ5 | TACT SWITCH(FF)A Mecha | | |
| | S303 | ESP0001-023ZJ5 | TACT SWITCH(F.WPLAY)A Mecha | | |
| | S310 | ESP0001-023ZJ5 | TACT SWITCH(B.WPLAY)B Mecha | | |
| | S311 | ESP0001-023ZJ5 | TACT SWITCH(REW)B Mecha | | |
| | S312 | ESP0001-023ZJ5 | TACT SWITCH(FF)B Mecha | | |
| | S313 | ESP0001-023ZJ5 | TACT SWITCH(F.WPLAY)B Mecha | | |
| | S320 | ESP0001-023ZJ5 | TACT SWITCH(STOP)A Mecha | | |
| | S321 | ESP0001-023ZJ5 | TACT SWITCH(STOP)B Mecha | | |
| | S322 | ESP0001-023ZJ5 | TACT SWITCH(REC.PAUSE)B Mecha | | |
| | S330 | ESP0001-023ZJ5 | TACT SWITCH(HIGH SPEED DUBBING) | | |
| | S331 | ESP0001-023ZJ5 | TACT SWITCH(DOLBY) | | |
| | S332 | ESP0001-023ZJ5 | TACT SWITCH(REV.MODE) | | |
| | S333 | ESP0001-023ZJ5 | TACT SWITCH(CD REC) | | |
| | S981 | ESP0001-023ZJ5 | TACT SWITCH(PROGRAM) | | |
| | S982 | ESP0001-023ZJ5 | TACT SWITCH(PALY/PAUSE) | | |
| | S983 | ESP0001-023ZJ5 | TACT SWITCH(BACK.AUTO SEARCH) | | |
| | S984 | ESP0001-023ZJ5 | TACT SWITCH(REPEAT) | | |
| | S985 | ESP0001-023ZJ5 | TACT SWITCH(RANDOM) | | |
| | S986 | ESP0001-023ZJ5 | TACT SWITCH(OPEN/CLOSE) | | |
| | S987 | ESP0001-023ZJ5 | TACT SWITCH(STOP/CLEAR) | | |
| | S988 | ESP0001-023ZJ5 | TACT SWITCH(SIDE A/B) | | |
| | S989 | ESP0001-023ZJ5 | TACT SWITCH(EDIT) | | |

Δ : SAFETY PARTS

■ ENJ-074 □ Deck PC Board Ass'y

Note : ENJ-074 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

| PC Board Ass'y | Version | Designated Areas |
|------------------------------------|----------------|---|
| ENJ-074 <input type="checkbox"/> D | BS EN EF | the U.K. Scandinavia Continental Europe |
| ENJ-074 <input type="checkbox"/> F | G GI | Germany Italy |

Transistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|---------------|-------------------|------|
| | Q281 | 2SK301(P,Q) | F.E.T. MATSUSHITA | |
| | Q282 | 2SK301(P,Q) | F.E.T. MATSUSHITA | |
| | Q305 | 2SD2144S(VW) | SI. TRANSISTROHM | |
| | Q306 | 2SD2144S(VW) | SI. TRANSISTROHM | |
| | Q307 | 2SC1740S(R,S) | SI. TRANSISTROHM | |
| | Q309 | DTC144ES | DIGITAL TRAROHM | |
| | Q332 | 2SC1740S(R,S) | SI. TRANSISTROHM | |
| | Q333 | 2SC1740S(R,S) | SI. TRANSISTROHM | |
| | Q335 | DTC144ES | DIGITAL TRAROHM | |
| | Q336 | DTC144ES | DIGITAL TRAROHM | |
| | Q337 | DTC144ES | DIGITAL TRAROHM | |
| | Q338 | DTC144ES | DIGITAL TRAROHM | |
| | Q339 | 2SC1740S(R,S) | SI. TRANSISTROHM | |
| | Q340 | 2SC1740S(R,S) | SI. TRANSISTROHM | |
| | Q351 | 2SC1740S(R,S) | SI. TRANSISTROHM | |
| | Q352 | 2SC1740S(R,S) | SI. TRANSISTROHM | |
| | Q353 | 2SC1740S(R,S) | SI. TRANSISTROHM | |
| | Q354 | 2SC1740S(R,S) | SI. TRANSISTROHM | |
| | Q355 | 2SC1740S(R,S) | SI. TRANSISTROHM | |
| | Q356 | 2SC1740S(R,S) | SI. TRANSISTROHM | |
| | Q357 | 2SC1740S(R,S) | SI. TRANSISTROHM | |
| | Q371 | 2SD2144S(VW) | SI. TRANSISTROHM | |
| | Q372 | 2SD2144S(VW) | SI. TRANSISTROHM | |
| | Q373 | 2SD2144S(VW) | SI. TRANSISTROHM | |
| | Q374 | 2SD2144S(VW) | SI. TRANSISTROHM | |

Transistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|---------------|-------------------|------|
| | Q376 | DTC144ES | DIGITAL TRAROHM | |
| | Q391 | 2SD2144S(VW) | SI. TRANSISTROHM | |
| | Q392 | 2SD2144S(VW) | SI. TRANSISTROHM | |
| | Q393 | DTA144ES | DIGITAL TRAROHM | |
| | Q405 | DTC144TS | DIGITAL TRAROHM | |
| | Q406 | DTC144TS | DIGITAL TRAROHM | |
| | Q407 | DTC144TS | DIGITAL TRAROHM | |
| | Q408 | DTC144TS | DIGITAL TRAROHM | |
| | Q409 | DTC144TS | DIGITAL TRAROHM | |
| | Q410 | DTC144TS | DIGITAL TRAROHM | |
| | Q411 | DTC144TS | DIGITAL TRAROHM | |
| | Q412 | DTC144TS | DIGITAL TRAROHM | |
| | Q431 | DTC114ES | DIGITAL TRAROHM | |
| | Q432 | DTA114TS | DIGITAL TRAROHM | |
| | Q451 | 2SK301(P,Q) | F.E.T. MATSUSHITA | |
| | Q452 | 2SK301(P,Q) | F.E.T. MATSUSHITA | |
| | Q453 | 2SK301(P,Q) | F.E.T. MATSUSHITA | |
| | Q454 | 2SK301(P,Q) | F.E.T. MATSUSHITA | |
| | Q465 | DTA114YS | DIGITAL TRAROHM | |
| | Q481 | 2SC1740S(R,S) | SI. TRANSISTROHM | |
| | Q482 | 2SC1740S(R,S) | SI. TRANSISTROHM | |
| | Q483 | 2SA933S(R,S) | SI. TRANSIST | |
| | Q484 | 2SA933S(R,S) | SI. TRANSIST | |
| | Q491 | DTC144ES | DIGITAL TRAROHM | |
| | Q492 | DTC144ES | DIGITAL TRAROHM | |

Δ : SAFETY PARTS

I.C.s

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|--------------|--------------------|------|
| | IC281 | UPC1228HA | I.C(MONO-ANNEC | |
| | IC351 | UPC1330HA | I.C(MONO-ANNEC | |
| | IC352 | HA12136A | I.C(MONO-ANHITACHI | |
| | IC401 | BA15218N | I.C(MONO-ANROHM | |
| | IC451 | TAB409S | I.C(MONO-ANTOSHIBA | |
| | IC452 | TAB409S | I.C(MONO-ANTOSHIBA | |
| | IC453 | TAB409S | I.C(MONO-ANTOSHIBA | |
| | IC454 | TAB409S | I.C(MONO-ANTOSHIBA | |
| | IC461 | UPC1228HA | I.C(MONO-ANNEC | |
| | IC491 | HD614081SD53 | I.C(MICRO-CHITACHI | |

Δ : SAFETY PARTS

Diodes

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|-------------|-----------------|------|
| | D332 | 1SS119 | SI. DIODE | |
| | D350 | 1SR139-200 | SI. DIODE ROHM | |
| | D431 | 1SS119 | SI. DIODE | |
| | D432 | MTZ3.9JB | ZENER DIODEROHM | |
| | D440 | 1SS119 | SI. DIODE | |
| | D471 | 1SS119 | SI. DIODE | |
| | D472 | 1SS119 | SI. DIODE | |
| | D473 | 1SS119 | SI. DIODE | |
| | D474 | 1SS119 | SI. DIODE | |
| | D475 | 1SS119 | SI. DIODE | |
| | D481 | 1SS119 | SI. DIODE | |
| | D483 | 1SS119 | SI. DIODE | |
| | D484 | 1SS119 | SI. DIODE | |
| | D485 | 1SS119 | SI. DIODE | |
| | D487 | 1SS119 | SI. DIODE | |

Δ : SAFETY PARTS

Capacitors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|------------------------|-------|
| | C280 | QCVB1CM-103Y | 0.01MF 16V CER.CAPACI | TO G |
| | C280 | QCVB1CM-103Y | 0.01MF 16V CER.CAPACI | TO G1 |
| | C281 | QEK51HM-225G | 2.2MF 50V AL E.CAPAC | IT |
| | C282 | QEK51HM-225G | 2.2MF 50V AL E.CAPAC | IT |
| | C283 | QCBB1HK-101Y | 100PF 50V CER.CAPACI | TO BS |
| | C283 | QCBB1HK-101Y | 100PF 50V CER.CAPACI | TO EF |
| | C283 | QCBB1HK-101Y | 100PF 50V CER.CAPACI | TO EN |
| | C283 | QCBB1HK-471Y | 470PF 50V CER.CAPACI | TO G |
| | C283 | QCBB1HK-471Y | 470PF 50V CER.CAPACI | TO G1 |
| | C284 | QCBB1HK-101Y | 100PF 50V CER.CAPACI | TO BS |
| | C284 | QCBB1HK-101Y | 100PF 50V CER.CAPACI | TO EF |
| | C284 | QCBB1HK-101Y | 100PF 50V CER.CAPACI | TO EN |
| | C284 | QCBB1HK-471Y | 470PF 50V CER.CAPACI | TO G |
| | C284 | QCBB1HK-471Y | 470PF 50V CER.CAPACI | TO G1 |
| | C285 | QETB1AM-107 | 100MF 10V AL E.CAPAC | IT |
| | C286 | QETB1AM-107 | 100MF 10V AL E.CAPAC | IT |
| | C287 | QFLB1HJ-822 | 8200PF 50V MYLAR CAPA | CI |
| | C288 | QFLB1HJ-822 | 8200PF 50V MYLAR CAPA | CI |
| | C289 | QERS1HM-105G | 1MF 50V AL E.CAPAC | IT |
| | C290 | QERS1HM-105G | 1MF 50V AL E.CAPAC | IT |
| | C291 | QEK51CM-107 | 100MF 16V E.CAPACITO | R |
| | C293 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO G |
| | C293 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO G1 |
| | C294 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO G |
| | C294 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO G1 |

Δ : SAFETY PARTS

Capacitors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|------------------------|-------|
| | C301 | QCY31HK-122Z | 1200PF 50V CER.CAPACI | TO |
| | C302 | QCY31HK-122Z | 1200PF 50V CER.CAPACI | TO |
| | C303 | QEK51HM-105G | 1MF 50V AL E.CAPAC | IT |
| | C310 | QCBB1HK-471Y | 470PF 50V CER.CAPACI | TO BS |
| | C310 | QCBB1HK-471Y | 470PF 50V CER.CAPACI | TO EF |
| | C310 | QCBB1HK-471Y | 470PF 50V CER.CAPACI | TO EN |
| | C310 | QCBB1HK-471Y | 470PF 50V CER.CAPACI | TO G |
| | C310 | QCBB1HK-471Y | 470PF 50V CER.CAPACI | TO G1 |
| | C325 | QFLB1HJ-222 | 2200PF 50V MYLAR CAPA | CI |
| | C326 | QFLB1HJ-222 | 2200PF 50V MYLAR CAPA | CI |
| | C327 | QFLB1HJ-682 | 6800PF 50V MYLAR CAPA | CI |
| | C328 | QFLB1HJ-273 | 0.027MF 50V MYLAR CAPA | CI |
| | C329 | QFP81HG-822 | 8200PF 50V POLYPROPY. | FI |
| | C330 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO G |
| | C330 | QCHB1EZ-223 | 0.022MF 25V CER.CAPACI | TO G1 |
| | C331 | QETB1HM-105 | 1MF 50V AL E.CAPAC | IT |
| | C332 | QETB1HM-105 | 1MF 50V AL E.CAPAC | IT |
| | C333 | QETB1EM-106 | 10MF 25V AL E.CAPAC | IT |
| | C335 | QCS21HJ-101A | 100PF 50V CER.CAPACI | TO |
| | C336 | QCS21HJ-101A | 100PF 50V CER.CAPACI | TO |
| | C337 | QCS21HJ-101A | 100PF 50V CER.CAPACI | TO |
| | C338 | QCS21HJ-101A | 100PF 50V CER.CAPACI | TO |
| | C339 | QCY31HK-152Z | 1500PF 50V CER.CAPACI | TO |
| | C340 | QCY31HK-152Z | 1500PF 50V CER.CAPACI | TO |
| | C341 | QCS21HJ-331 | 330PF 50V CER.CAPACI | TO |
| | C342 | QCS21HJ-331 | 330PF 50V CER.CAPACI | TO |
| | C343 | QCY31HK-122Z | 1200PF 50V CER.CAPACI | TO |
| | C344 | QCY31HK-122Z | 1200PF 50V CER.CAPACI | TO |
| | C346 | QCF21HP-223A | 0.022MF 50V CER.CAPACI | TO |
| | C347 | QETB1CM-107 | 100MF 16V AL E.CAPAC | IT |
| | C351 | QCF21HP-473A | 0.047MF 50V CER.CAPACI | TO |
| | C352 | QCF21HP-473A | 0.047MF 50V CER.CAPACI | TO |
| | C353 | QEK51HM-105G | 1MF 50V AL E.CAPAC | IT |
| | C354 | QEK51HM-105G | 1MF 50V AL E.CAPAC | IT |
| | C355 | QEK51HM-105G | 1MF 50V AL E.CAPAC | IT |
| | C356 | QEK51HM-105G | 1MF 50V AL E.CAPAC | IT |
| | C357 | QETB1EM-106 | 10MF 25V AL E.CAPAC | IT |
| | C358 | QETB1EM-106 | 10MF 25V AL E.CAPAC | IT |
| | C359 | QETB1CM-476 | 47MF 16V AL E.CAPAC | IT |
| | C361 | QFV81HJ-224 | 0.22MF 50V THIN FILM | CA |
| | C363 | QEK51HM-475 | 4.7MF 50V AL E.CAPAC | IT |
| | C364 | QEK51CM-107 | 100MF 16V E.CAPACITO | R |
| | C366 | QFV81HJ-224 | 0.22MF 50V THIN FILM | CA |
| | C371 | QCBB1HK-331Y | 330PF 50V CER.CAPACI | TO |
| | C372 | QCBB1HK-331Y | 330PF 50V CER.CAPACI | TO |
| | C373 | QCBB1HK-331Y | 330PF 50V CER.CAPACI | TO |
| | C374 | QCBB1HK-331Y | 330PF 50V CER.CAPACI | TO |
| | C385 | QCBB1HK-101Y | 100PF 50V CER.CAPACI | TO G |
| | C385 | QCBB1HK-101Y | 100PF 50V CER.CAPACI | TO G1 |
| | C386 | QCBB1HK-101Y | 100PF 50V CER.CAPACI | TO G |
| | C386 | QCBB1HK-101Y | 100PF 50V CER.CAPACI | TO G1 |
| | C391 | QEK51EM-106 | 10MF 25V AL E.CAPAC | IT |
| | C392 | QEK51EM-106 | 10MF 25V AL E.CAPAC | IT |
| | C394 | QETB1CM-107 | 100MF 16V AL E.CAPAC | IT |
| | C401 | QCF21HP-473A | 0.047MF 50V CER.CAPACI | TO |
| | C402 | QCF21HP-473A | 0.047MF 50V CER.CAPACI | TO |
| | C405 | QETB1HM-225 | 2.2MF 50V E.CAPACITO | R |
| | C406 | QETB1HM-225 | 2.2MF 50V E.CAPACITO | R |
| | C407 | QERS1HM-225G | 2.2MF 50V AL E.CAPAC | IT |
| | C408 | QERS1HM-225G | 2.2MF 50V AL E.CAPAC | IT |
| | C411 | QERS1EM-106 | 10MF 25V E.CAPACITO | R |
| | C412 | QERS1EM-106 | 10MF 25V E.CAPACITO | R |
| | C413 | QCS21HJ-271A | 270PF 50V CER.CAPACI | TO |
| | C414 | QCS21HJ-271A | 270PF 50V CER.CAPACI | TO |
| | C415 | QFLB1HJ-822 | 8200PF 50V MYLAR CAPA | CI |
| | C416 | QFLB1HJ-822 | 8200PF 50V MYLAR CAPA | CI |
| | C417 | QFLB1HJ-562 | 5600PF 50V MYLAR CAPA | CI |
| | C418 | QFLB1HJ-562 | 5600PF 50V MYLAR CAPA | CI |
| | C419 | QFLB1HJ-123 | 0.012MF 50V MYLAR CAPA | CI |
| | C420 | QFLB1HJ-123 | 0.012MF 50V MYLAR CAPA | CI |
| | C421 | QFLB1HJ-102 | 1000PF 50V MYLAR CAPA | CI |
| | C422 | QFLB1HJ-102 | 1000PF 50V MYLAR CAPA | CI |
| | C423 | QFLB1HJ-103 | 0.01MF 50V MYLAR CAPA | CI |
| | C424 | QFLB1HJ-103 | 0.01MF 50V MYLAR CAPA | CI |
| | C425 | QETB1CM-107 | 100MF 16V AL E.CAPAC | IT |
| | C426 | QCVB1CM-103Y | 0.01MF 16V CER.CAPACI | TO |
| | C427 | QEK51CM-226 | 22MF 16V AL E.CAPAC | IT |
| | C430 | QCGB1HK-102 | 1000PF 50V CER.CAPACI | TO |
| | C435 | QETB1CM-476 | 47MF 16V AL E.CAPAC | IT |
| | C436 | QCZ0202-155 | 1.5MF 25V CER.RESIST | OR |
| | C437 | QCS21HJ-101A | 100PF 50V CER.CAPACI | TO |
| | C438 | QCS21HJ-101A | 100PF 50V CER.CAPACI | TO |
| | C439 | QCVB1CM-103Y | 0.01MF 16V CER.CAPACI | TO |
| | C445 | QCS21HJ-470 | 47PF 50V CER.CAPACI | TO |
| | C446 | QCS21HJ-470 | 47PF 50V CER.CAPACI | TO |
| | C451 | QEK51HM-225G | 2.2MF 50V AL E.CAPAC | IT |
| | C453 | QCBB1HK-101Y | 100PF 50V CER.CAPACI | TO BS |
| | C453 | QCBB1HK-101Y | 100PF 50V CER.CAPACI | TO EF |
| | C453 | QCBB1HK-101Y | 100PF 50V CER.CAPACI | TO EN |
| | C453 | QCBB1HK-471Y | 470PF 50V CER.CAPACI | TO G |
| | C453 | QCBB1HK-471Y | 470PF 50V CER.CAPACI | TO G1 |
| | C454 | QCBB1HK-101Y | 100PF 50V CER.CAPACI | TO BS |
| | C454 | QCBB1HK-101Y | 100PF 50V CER.CAPACI | TO EF |
| | C454 | QCBB1HK-101Y | 100PF 50V CER.CAPACI | TO EN |
| | C454 | QCBB1HK-471Y | 470PF 50V CER.CAPACI | TO G |

Δ : SAFETY PARTS

XT-S50RBK

Capacitors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|-----------------------|-------|
| | C454 | QCB11HK-471Y | 470PF 50V CER.CAPAC | TO GI |
| | C455 | QETB1AM-107 | 100MF 10V AL E.CAPAC | IT |
| | C456 | QETB1AM-107 | 100MF 10V AL E.CAPAC | IT |
| | C457 | QFLB1HJ-822 | 8200PF 50V MYLAR CAPA | CI |
| | C458 | QFLB1HJ-822 | 8200PF 50V MYLAR CAPA | CI |
| | C459 | QEK51HM-105G | 1MF 50V AL E.CAPAC | IT |
| | C460 | QEK51HM-105G | 1MF 50V AL E.CAPAC | IT |
| | C461 | QETB1CM-107 | 100MF 16V AL E.CAPAC | IT |
| | C475 | QETB1AM-476 | 47MF 10V E.CAPACITO | R |
| | C481 | QETB1CM-476 | 47MF 16V AL E.CAPAC | IT |
| | C488 | QEK51CM-107 | 100MF 16V E.CAPACITO | R |
| | C490 | QCGB1HK-102 | 1000PF 50V CER.CAPAC | TO G |
| | C490 | QCGB1HK-102 | 1000PF 50V CER.CAPAC | TO G |
| | C491 | QFLB1HJ-104 | 0.1MF 50V MYLAR CAPA | CI |
| | C492 | QFLB1HJ-104 | 0.1MF 50V MYLAR CAPA | CI |
| | C493 | QFLB1HJ-104 | 0.1MF 50V MYLAR CAPA | CI |
| | C494 | QFLB1HJ-104 | 0.1MF 50V MYLAR CAPA | CI |

Δ : SAFETY PARTS

Resistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|----------------------|-------|
| | R241 | QRD167J-470 | 47 1/6W CARBON RES | IS G |
| | R241 | QRD167J-470 | 47 1/6W CARBON RES | IS G1 |
| | R242 | QRD167J-470 | 47 1/6W CARBON RES | IS G |
| | R242 | QRD167J-470 | 47 1/6W CARBON RES | IS G1 |
| | R243 | QRD167J-470 | 47 1/6W CARBON RES | IS |
| | R244 | QRD167J-470 | 47 1/6W CARBON RES | IS |
| | R245 | QRD167J-334 | 330K 1/6W CARBON RES | IS |
| | R246 | QRD167J-334 | 330K 1/6W CARBON RES | IS |
| | R247 | QRD167J-562 | 5.6K 1/6W CARBON RES | IS |
| | R248 | QRD167J-562 | 5.6K 1/6W CARBON RES | IS |
| | R249 | QRD167J-682 | 6.8K 1/6W CARBON RES | IS |
| | R250 | QRD167J-682 | 6.8K 1/6W CARBON RES | IS |
| | R251 | QRD161J-105 | 1M 1/6W CARBON RES | IS |
| | R252 | QRD161J-105 | 1M 1/6W CARBON RES | IS |
| | R254 | QRD167J-471 | 470 1/6W CARBON RES | IS |
| | R255 | QRD167J-272 | 2.7K 1/6W CARBON RES | IS |
| | R256 | QRD167J-272 | 2.7K 1/6W CARBON RES | IS |
| | R300 | QRD167J-431 | 430 1/6W CARBON RES | IS |
| | R301 | QRD167J-431 | 430 1/6W CARBON RES | IS |
| | R302 | QRD161J-181 | 180 1/6W CARBON RES | IS |
| | R303 | QRD161J-181 | 180 1/6W CARBON RES | IS |
| | R304 | QRD161J-331 | 330 1/6W CARBON RES | IS |
| | R305 | QRD161J-561 | 560 1/6W CARBON RES | IS |
| | R306 | QRD161J-561 | 560 1/6W CARBON RES | IS |
| | R307 | QRD161J-821 | 820 1/6W CARBON RES | IS |
| | R309 | QRD167J-473 | 47K 1/6W CARBON RES | IS |
| | R310 | QRD167J-473 | 47K 1/6W CARBON RES | IS |
| | R311 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R312 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R313 | QRD167J-153 | 15K 1/6W CARBON RES | IS |
| | R314 | QRD167J-153 | 15K 1/6W CARBON RES | IS |
| | R315 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R316 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R317 | QRD167J-473 | 47K 1/6W CARBON RES | IS |
| | R318 | QRD167J-473 | 47K 1/6W CARBON RES | IS |
| Δ | R321 | QRZ0077-220 | 22 1/4W FUSIBLE RE | SI |
| | R322 | QRD167J-913 | 91K 1/6W CARBON RES | IS |
| | R323 | QRD161J-105 | 1M 1/6W CARBON RES | IS |
| | R325 | QRD167J-104 | 100K 1/6W CARBON RES | IS |
| | R327 | QRD167J-473 | 47K 1/6W CARBON RES | IS |
| | R328 | QRD167J-473 | 47K 1/6W CARBON RES | IS |
| | R330 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R332 | QRD167J-332 | 3.3K 1/6W CARBON RES | IS |
| | R333 | QRD167J-104 | 100K 1/6W CARBON RES | IS |
| | R334 | QRD161J-181 | 180 1/6W CARBON RES | IS |
| | R335 | QRD167J-121 | 120 1/6W CARBON RES | IS |
| Δ | R336 | QRZ0077-220 | 22 1/4W FUSIBLE RE | SI |
| | R341 | QRD161J-100 | 10 1/6W CARBON RES | IS |
| | R342 | QRD161J-100 | 10 1/6W CARBON RES | IS |
| | R343 | QRD167J-222 | 2.2K 1/6W CARBON RES | IS |
| Δ | R344 | QRD14CJ-220S | 22 1/4W UNF. CARBON | R |
| | R345 | QRD167J-562 | 5.6K 1/6W CARBON RES | IS |
| | R346 | QRD167J-562 | 5.6K 1/6W CARBON RES | IS |
| | R347 | QRD167J-224 | 220K 1/6W CARBON RES | IS |
| | R348 | QRD167J-224 | 220K 1/6W CARBON RES | IS |
| | R349 | QRD167J-223 | 22K 1/6W CARBON RES | IS |
| | R353 | QRD167J-153 | 15K 1/6W CARBON RES | IS |
| | R354 | QRD167J-153 | 15K 1/6W CARBON RES | IS |
| | R355 | QRD167J-243 | 24K 1/6W CARBON RES | IS |
| | R356 | QRD167J-243 | 24K 1/6W CARBON RES | IS |
| | R357 | QRD167J-332 | 3.3K 1/6W CARBON RES | IS |
| | R358 | QRD167J-332 | 3.3K 1/6W CARBON RES | IS |
| | R359 | QRD167J-223 | 22K 1/6W CARBON RES | IS |
| | R360 | QRD167J-223 | 22K 1/6W CARBON RES | IS |
| | R361 | QRD161J-561 | 560 1/6W CARBON RES | IS |
| | R362 | QRD161J-561 | 560 1/6W CARBON RES | IS |
| | R363 | QRD161J-242 | 2.4K 1/6W CARBON RES | IS |
| | R364 | QRD161J-242 | 2.4K 1/6W CARBON RES | IS |
| | R365 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R366 | QRD161J-105 | 1M 1/6W CARBON RES | IS |

Δ : SAFETY PARTS

Resistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|-------------|----------------------|-------|
| | R367 | QRD167J-223 | 22K 1/6W CARBON RES | IS |
| | R368 | QRD167J-223 | 22K 1/6W CARBON RES | IS |
| | R371 | QRD167J-562 | 5.6K 1/6W CARBON RES | IS |
| | R372 | QRD167J-562 | 5.6K 1/6W CARBON RES | IS |
| | R373 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R374 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R377 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R378 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R379 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R380 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R389 | QRD161J-221 | 220 1/6W CARBON RES | IS |
| | R390 | QRD161J-221 | 220 1/6W CARBON RES | IS |
| | R391 | QRD167J-562 | 5.6K 1/6W CARBON RES | IS |
| | R392 | QRD167J-562 | 5.6K 1/6W CARBON RES | IS |
| | R395 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R396 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R401 | QRD161J-333 | 33K 1/6W CARBON RES | IS |
| | R402 | QRD161J-333 | 33K 1/6W CARBON RES | IS |
| | R405 | QRD167J-683 | 68K 1/6W CARBON RES | IS |
| | R406 | QRD167J-683 | 68K 1/6W CARBON RES | IS |
| | R407 | QRD167J-153 | 15K 1/6W CARBON RES | IS |
| | R408 | QRD167J-153 | 15K 1/6W CARBON RES | IS |
| | R409 | QRD167J-153 | 15K 1/6W CARBON RES | IS |
| | R410 | QRD167J-153 | 15K 1/6W CARBON RES | IS |
| | R413 | QRD167J-182 | 1.8K 1/6W CARBON RES | IS |
| | R414 | QRD167J-182 | 1.8K 1/6W CARBON RES | IS |
| | R415 | QRD161J-221 | 220 1/6W CARBON RES | IS |
| | R416 | QRD161J-221 | 220 1/6W CARBON RES | IS |
| | R417 | QRD161J-221 | 220 1/6W CARBON RES | IS |
| | R418 | QRD161J-221 | 220 1/6W CARBON RES | IS |
| | R419 | QRD167J-471 | 470 1/6W CARBON RES | IS |
| | R420 | QRD167J-471 | 470 1/6W CARBON RES | IS |
| | R421 | QRD167J-332 | 3.3K 1/6W CARBON RES | IS |
| | R422 | QRD167J-332 | 3.3K 1/6W CARBON RES | IS |
| | R423 | QRD167J-102 | 1K 1/6W CARBON RES | IS |
| | R424 | QRD167J-102 | 1K 1/6W CARBON RES | IS |
| | R427 | QRD167J-471 | 470 1/6W CARBON RES | IS |
| | R428 | QRD167J-471 | 470 1/6W CARBON RES | IS |
| | R429 | QRD167J-392 | 3.9K 1/6W CARBON RES | IS |
| | R430 | QRD167J-392 | 3.9K 1/6W CARBON RES | IS |
| | R431 | QRD167J-394 | 390K 1/6W CARBON RES | IS |
| | R432 | QRD167J-394 | 390K 1/6W CARBON RES | IS |
| | R433 | QRD161J-221 | 220 1/6W CARBON RES | IS |
| | R434 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R435 | QRD167J-223 | 22K 1/6W CARBON RES | IS |
| | R436 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R437 | QRD167J-102 | 1K 1/6W CARBON RES | IS |
| | R438 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R440 | QRD161J-221 | 220 1/6W CARBON RES | IS |
| | R443 | QRD161J-183 | 18K 1/6W CARBON RES | IS |
| | R451 | QRD167J-470 | 47 1/6W CARBON RES | IS G |
| | R451 | QRD167J-470 | 47 1/6W CARBON RES | IS G1 |
| | R452 | QRD167J-470 | 47 1/6W CARBON RES | IS G |
| | R452 | QRD167J-470 | 47 1/6W CARBON RES | IS G1 |
| | R453 | QRD167J-470 | 47 1/6W CARBON RES | IS |
| | R454 | QRD167J-470 | 47 1/6W CARBON RES | IS |
| | R455 | QRD167J-334 | 330K 1/6W CARBON RES | IS |
| | R456 | QRD167J-334 | 330K 1/6W CARBON RES | IS |
| | R457 | QRD161J-362 | 3.6K 1/6W CARBON RES | IS |
| | R458 | QRD161J-362 | 3.6K 1/6W CARBON RES | IS |
| | R459 | QRD167J-222 | 2.2K 1/6W CARBON RES | IS |
| | R460 | QRD167J-222 | 2.2K 1/6W CARBON RES | IS |
| | R461 | QRD167J-332 | 3.3K 1/6W CARBON RES | IS |
| | R462 | QRD167J-332 | 3.3K 1/6W CARBON RES | IS |
| | R463 | QRD167J-682 | 6.8K 1/6W CARBON RES | IS |
| | R464 | QRD167J-682 | 6.8K 1/6W CARBON RES | IS |
| | R465 | QRD167J-223 | 22K 1/6W CARBON RES | IS |
| | R466 | QRD167J-223 | 22K 1/6W CARBON RES | IS |
| | R467 | QRD161J-105 | 1M 1/6W CARBON RES | IS |
| | R468 | QRD161J-105 | 1M 1/6W CARBON RES | IS |
| | R469 | QRD161J-105 | 1M 1/6W CARBON RES | IS |
| | R470 | QRD161J-105 | 1M 1/6W CARBON RES | IS |
| | R471 | QRD167J-471 | 470 1/6W CARBON RES | IS |
| | R472 | QRD167J-472 | 4.7K 1/6W CARBON RES | IS |
| | R473 | QRD167J-472 | 4.7K 1/6W CARBON RES | IS |
| | R474 | QRD161J-274 | 270K 1/6W CARBON RES | IS |
| | R475 | QRD167J-104 | 100K 1/6W CARBON RES | IS |
| | R476 | QRD167J-472 | 4.7K 1/6W CARBON RES | IS |
| | R480 | QRD161J-242 | 2.4K 1/6W CARBON RES | IS |
| | R481 | QRD167J-153 | 15K 1/6W CARBON RES | IS |
| | R482 | QRD161J-273 | 27K 1/6W CARBON RES | IS |
| | R483 | QRD161J-184 | 180K 1/6W CARBON RES | IS |
| | R484 | QRD167J-224 | 220K 1/6W CARBON RES | IS |
| | R485 | QRD167J-683 | 68K 1/6W CARBON RES | IS |
| | R486 | QRD167J-224 | 220K 1/6W CARBON RES | IS |
| | R487 | QRD167J-224 | 220K 1/6W CARBON RES | IS |
| | R488 | QRD161J-105 | 1M 1/6W CARBON RES | IS |
| | R495 | QRD167J-123 | 12K 1/6W CARBON RES | IS |
| | R496 | QRD167J-123 | 12K 1/6W CARBON RES | IS |
| | R497 | QRD167J-682 | 6.8K 1/6W CARBON RES | IS |
| | R498 | QRD167J-682 | 6.8K 1/6W CARBON RES | IS |
| | R499 | QRD167J-563 | 56K 1/6W CARBON RES | IS |
| | R500 | QRD167J-563 | 56K 1/6W CARBON RES | IS |
| | R501 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R502 | QRD167J-103 | 10K 1/6W CARBON RES | IS |

Δ : SAFETY PARTS

Resistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|--------------|----------------------|-------|
| | R509 | QRD167J-103 | 10K 1/6W CARBON RES | IS |
| | R513 | QRD167J-151 | 150 1/6W CARBON RES | IS |
| | R522 | QRD161J-221 | 220 1/6W CARBON RES | IS |
| | R525 | QRD161J-221 | 220 1/6W CARBON RES | IS |
| | R526 | QRD161J-221 | 220 1/6W CARBON RES | IS |
| | R527 | QRD161J-220 | 22 1/6W CARBON RES | IS G |
| | R527 | QRD161J-220 | 22 1/6W CARBON RES | IS GI |
| Δ | R531 | QRG022J-470A | 47 2W OXIDE META L | L |
| Δ | R532 | QRG022J-470A | 47 2W OXIDE META L | L |
| | R533 | QRD161J-163 | 16K 1/6W CARBON RES | IS |
| | R534 | QRD161J-163 | 16K 1/6W CARBON RES | IS |
| | R535 | QRD161J-183 | 18K 1/6W CARBON RES | IS |
| | R536 | QRD161J-183 | 18K 1/6W CARBON RES | IS |
| | R539 | QRD167J-472 | 4.7K 1/6W CARBON RES | IS |
| | R540 | QRD161J-220 | 22 1/6W CARBON RES | IS BS |
| | R540 | QRD161J-220 | 22 1/6W CARBON RES | IS EF |
| | R540 | QRD161J-220 | 22 1/6W CARBON RES | IS EN |
| | RA401 | QRB049J-103 | 10K 1/10W RESISTOR | |
| | RA402 | QRB089J-103 | 10K 1/10W NETWORK RE | SI |
| | VR281 | QVPA601-201A | 200 TRIMMER RE | SI |
| | VR282 | QVPA601-201A | 200 TRIMMER RE | SI |
| | VR283 | QVPA601-104A | 100K TRIMMER RE | SI |
| | VR284 | QVPA601-104A | 100K TRIMMER RE | SI |
| | VR311 | QVPA601-503A | 50K TRIMMER RE | SI |
| | VR312 | QVPA601-503A | 50K TRIMMER RE | SI |
| | VR331 | QVPA601-204A | 200K TRIMMER RE | SI |
| | VR332 | QVPA601-204A | 200K TRIMMER RE | SI |
| | VR451 | QVPA601-104A | 100K TRIMMER RE | SI |
| | VR452 | QVPA601-104A | 100K TRIMMER RE | SI |
| | VR453 | QVPA601-201A | 200 TRIMMER RE | SI |
| | VR454 | QVPA601-201A | 200 TRIMMER RE | SI |
| | VR481 | QVPA601-103A | 10K TRIMMER RE | SI |

Δ : SAFETY PARTS

Others

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|----------------|-------------------------|------|
| | | QWE351-10RR | VINYL WIRE | BS |
| | | QWE351-10RR | VINYL WIRE | EF |
| | | QWE351-10RR | VINYL WIRE | EN |
| | | QWE351-10RR | VINYL WIRE | G |
| | | QWE356-11RR | SHIELD WIRE | G |
| | | QWE353-08RR | SHIELD WIRE | G |
| | | QWE350-15RR | SHIELD WIRE | G |
| | | QWE351-10RR | VINYL WIRE | GI |
| | | QWE356-11RR | SHIELD WIRE | GI |
| | | QWE353-08RR | SHIELD WIRE | GI |
| | | QWE350-15RR | SHIELD WIRE | GI |
| | J497 | VMC0234-P07 | CONNECT TERMINAL(7PIN) | |
| | J498 | VMC0234-P07 | CONNECT TERMINAL(7PIN) | |
| | K302 | ENZ8101-007 | INDUCTOR | G |
| | K302 | ENZ8101-007 | INDUCTOR | GI |
| | K303 | ENZ8101-007 | INDUCTOR | G |
| | K303 | ENZ8101-007 | INDUCTOR | GI |
| | K304 | ENZ8101-007 | INDUCTOR | G |
| | K304 | ENZ8101-007 | INDUCTOR | GI |
| | L331 | ENZ6002-013J2 | OSC COIL | BS |
| | L331 | ENZ6002-013J2 | OSC COIL | EF |
| | L331 | ENZ6002-013J2 | OSC COIL | EN |
| | L331 | ENZ6002-013J2 | OSC COIL | G |
| | L331 | ENZ6002-013J2 | OSC COIL | GI |
| | L333 | EQL2106-223TJ2 | INDUCTOR | |
| | L334 | EQL2106-223TJ2 | INDUCTOR | |
| | L401 | EQL2106-562TJ2 | INDUCTOR | |
| | L402 | EQL2106-562TJ2 | INDUCTOR | |
| | L437 | EQL2106-223TJ2 | INDUCTOR | |
| | L438 | EQL2106-223TJ2 | INDUCTOR | |
| | P331 | EMV5133-007K | PLUG(7PIN) | |
| | P333 | EMV5233-003K | CONNECT TERMINAL(3PIN) | |
| | P490 | EMV5109-009A | PIN PLUG(9PIN) | |
| | P491 | EMV5109-008A | MALE CONNECTOR(8PIN) | |
| | P492 | EMV5142-911 | CONNECT TERMINAL(11PIN) | |
| | P493 | EMV5142-906 | CONNECT TERMINAL(6PIN) | |
| | S310 | QSS7A12-E01 | SLIDE SWITCH | BS |
| | S310 | QSS7A12-E01 | SLIDE SWITCH | EF |
| | S310 | QSS7A12-E01 | SLIDE SWITCH | EN |
| | S310 | QSS7A12-E01 | SLIDE SWITCH | G |
| | S310 | QSS7A12-E01 | SLIDE SWITCH | GI |
| | S461 | ESB1100-007 | LEAF SWITCH | |
| | S463 | ESB1100-007 | LEAF SWITCH | |
| | S464 | ESB1100-007 | LEAF SWITCH | |
| | S465 | ESB1100-007 | LEAF SWITCH | |
| | S466 | ESB1100-007 | LEAF SWITCH | |
| | S467 | ESB1100-007 | LEAF SWITCH | |
| | T301 | E70225-001 | EARTH PLATE | |
| | BC490 | EWS269-F413 | SOCKET WIRE ASSY(9PIN) | |
| | BC491 | EWS268-F413 | SOCKET WIRE ASSY(8PIN) | |
| | FW495 | EWR34D-16LS | FLAT WIRE ASSY(4PIN) | |
| | FW496 | EWR38D-16LS | FLAT WIRE ASSY(8PIN) | |
| | FW702 | EWR33D-20LS | FLAT WIRE ASSY(3PIN) | |
| | JB311 | EMV7141-015 | PIN CONNECTOR(15PIN) | |
| | XT491 | ECX0004-194KM | CERAMIC RESONATOR | |

Δ : SAFETY PARTS

CA-S50RBK

JVC

VICTOR COMPANY OF JAPAN, LIMITED

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