ORDER NO. AD9807142C3

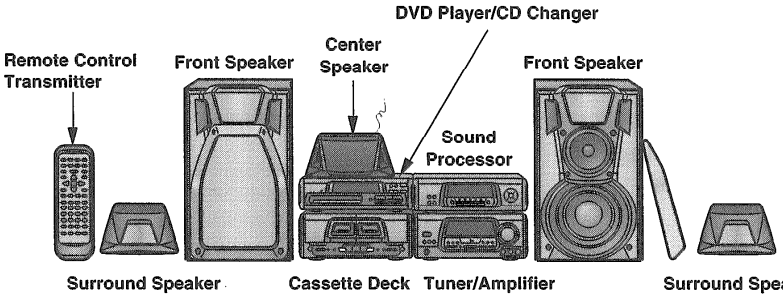
Service Manual

DOLBY SURROUND PRO•LOGIC *1

Sound Processor

Sound Processor

SH-EH1000



Colour
(S) ..... Silver Type.

Area
(GK)..... China.

Because of unique interconnecting cables, when a component requires service, send or bring in the entire system.

System	SC-VC1000	SC-VC988
Sound Processor	**SH-EH1000**	**SH-EH1000**
Tuner/Amplifier	SA-EH1000	SA-EH602
DVD Player	SL-EH1000	————
CD Changer	————	SL-EH602
Cassette Deck	RS-EH1000	RS-EH1000
Front Speakers*2	SB-VC1000	SB-VC1000
Center Speaker*2	SB-PC600X	SB-PC600X
Surround Speakers*2	SB-PS600X	SB-PS600X

Specifications

EQ/SFP Section

MANUAL GEQ
Center frequency 100 Hz, 315 Hz, 1 kHz, 3.15 kHz, 10 kHz
Level control ± 3, 6, 9 dB
EQ SPACE mode
3 modes HALL, CLEAR, HEAVY
Acoustic Image Equalizer 36 patterns

Pre-amplifier Section

Input sensitivity/impedance
VCR 250 mV/15 kΩ
VDP 250 mV/15 kΩ
Output level
VCR REC OUT 250 mV/1.5 kΩ
VIDEO OUTPUT
MONITOR OUT 1 Vp-p, 75 Ω
VCR REC OUT 1 Vp-p, 75 Ω

DOLBY PRO LOGIC Section

PRO LOGIC mode SURROUND, 3 STEREO
CENTER mode NORMAL, WIDE, PHANTOM
DELAY TIME 20 ms (Fixed)

Spectrum analyzer Section

Display mode NORMAL, PEAKHOLD, AURORA

General

Power supply DC ±7.5/+13/−30 V
AC 5.5 V 50/60 Hz
Power consumption 5 W
Dimensions 287 (W) × 89 (H) × 273.5 (D) mm
Weight 1.1 kg

Notes: Specifications are subject to change without notice.
Weight and dimensions are approximate.
*1: Manufactured under license from Dolby Laboratories Licensing Corporation.
DOLBY, the double-D symbol and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.
*2: Made in Singapore.

⚠WARNING

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

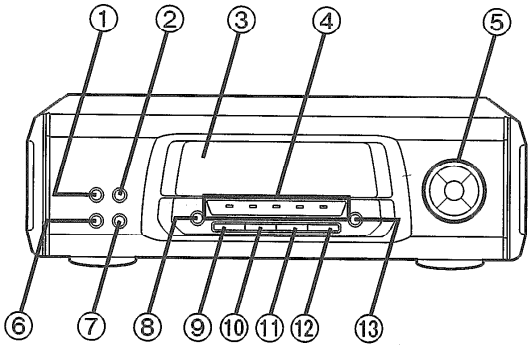
Panasonic®

■ Contents

NOTE:

Refer to the service manual for Model No. SA-EH1000 (ORDER No. AD9807143C3) for information on "Accessories", "Connections", "Installation" , "Operations" and "Packaging".

■ Location of Controls



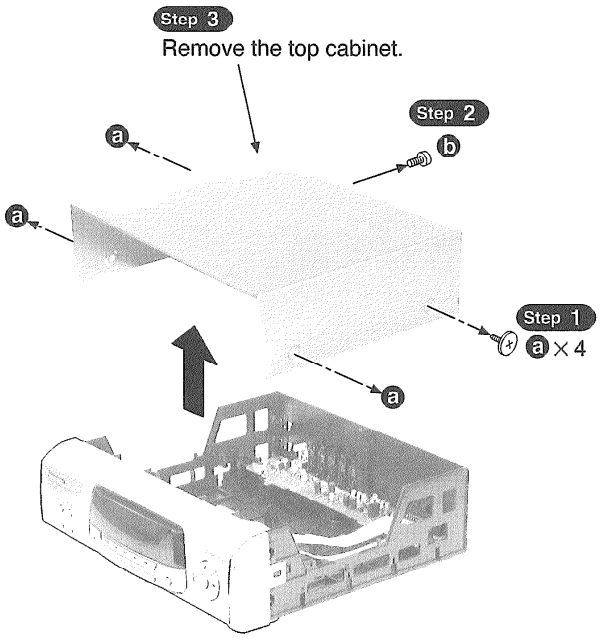
① **EQ SPACE on/flat button (EQ SPACE ON/FLAT)**
② **Display mode select/demonstration button (DISP MODE/—DEMO)**
③ **Display**
④ **DOLBY PRO LOGIC indicators (SURROUND, 3 STEREO, NORMAL, WIDE, PHANTOM)**
⑤ **Multi control buttons (MULTI CONTROL ◄, ►, ▼, ▲)**
⑥ **Acoustic image EQ button (ACOUSTIC IMAGE EQ)**
⑦ **EQ SPACE preset/manual select button (PRESET/MANUAL)**
⑧ **SUPER SURROUND button and indicator (SUPER SURROUND)**
⑨ **DOLBY PRO LOGIC on/off button (DOLBY PRO LOGIC, OFF/ON)**
⑩ **DOLBY PRO LOGIC mode select button (MODE)**
⑪ **DOLBY PRO LOGIC test signal button (TEST)**
⑫ **DOLBY PRO LOGIC center mode select button (CENTER MODE)**
⑬ **SUPER WOOFER button and indicator (SUPER WOOFER)**

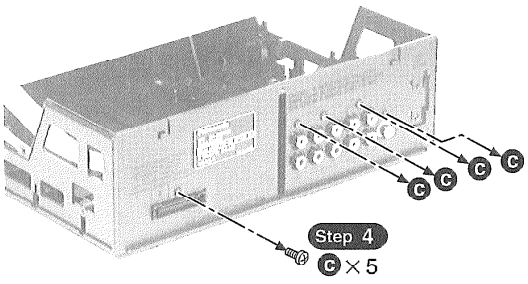
■ Operation Checks and Component Replacement Procedures

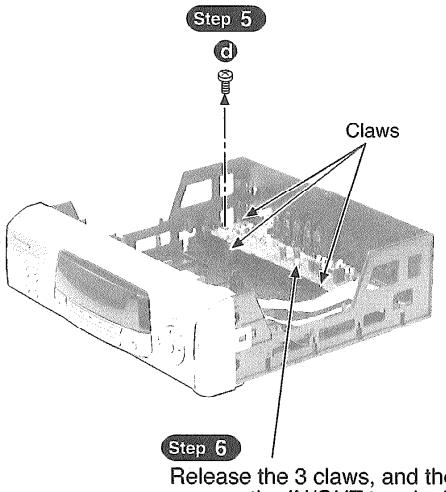
NOTE **1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**

2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.

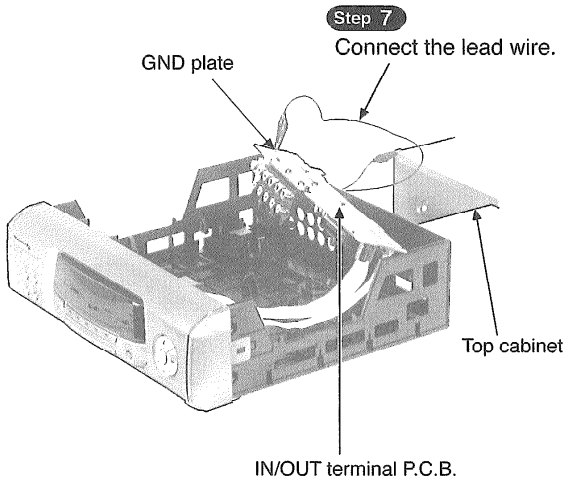
1. Checking for the IN/OUT terminal P.C.B.





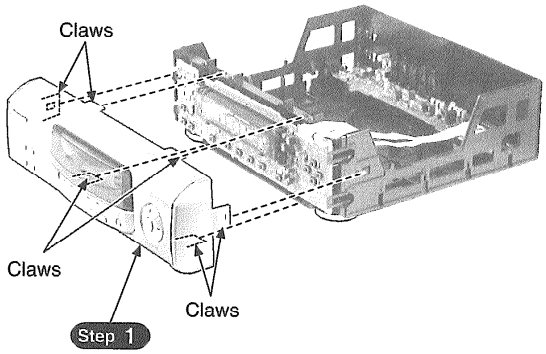


· Check the IN/OUT terminal P.C.B. as shown below.



2. Checking for the FL P.C.B.

· Follow the Step 1 ~ Step 3 of the item 1 on page 3.

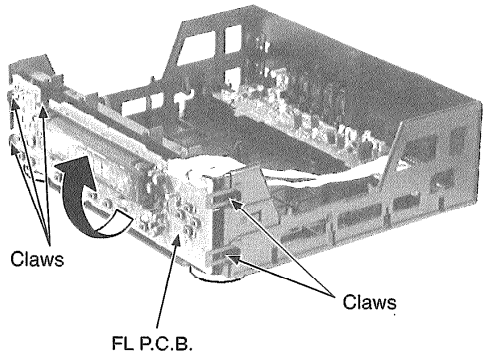


Step 1

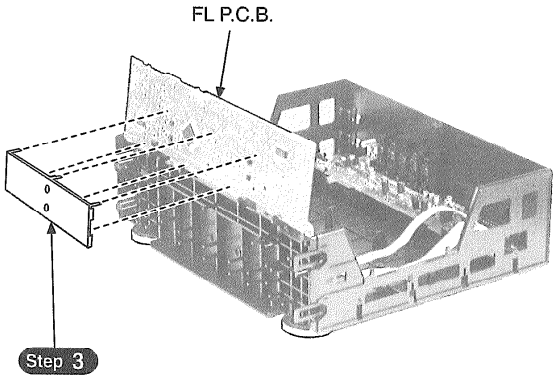
Release the 6 claws, and then remove the front panel ass'y.

Step 2

Release the 5 claws, and then remove the FL P.C.B..



· Check the FL P.C.B. as shown below.



Step 3

Unsolder the shield plate terminals. (6 points)

■ To Supply Power Source

This unit SH-EH1000 is designed to operate on power supplied from the system connected. (For system connection, refer to Fig.1)

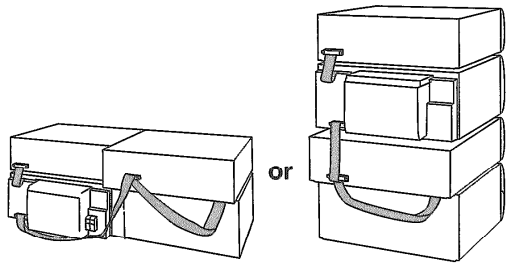
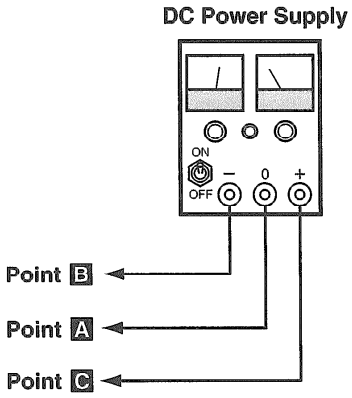
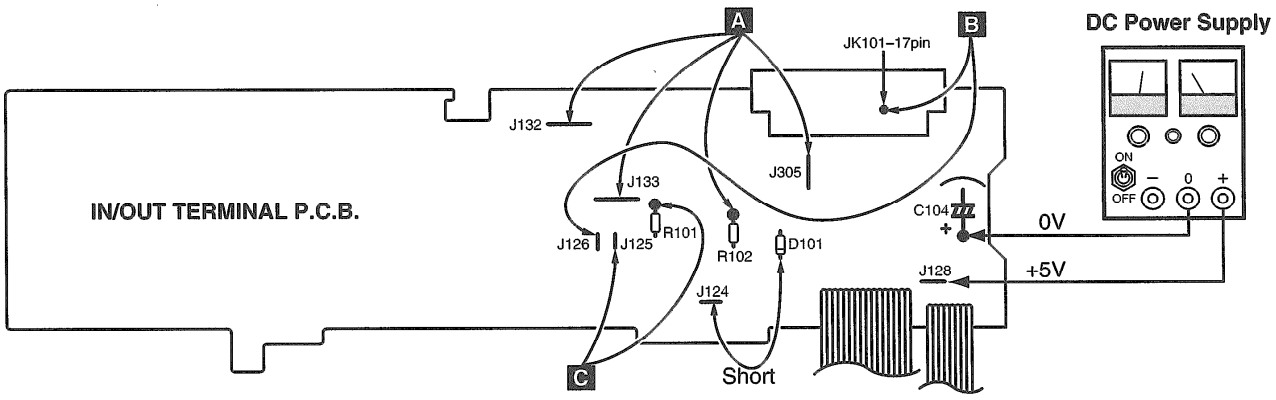


Fig. 1

When you have to test and service the unit SH-EH1000 alone, use the following method to supply power source and operate the unit:

1. Short the section between **J124** and **D101**.
2. Short the section **J132, J133, J305** and **R102** with each other. (Point A)
3. Short the section between **J126** and **17 pin** of the connector **JK101**. (Point B)
4. Short the section between **J125** and **R101**. (Point C)
5. Apply +5 V DC power to the section between **J128** and **(+) foil side** of **C104**.
6. Connect the DC power supply as shown below.
   - + 12 V terminal of the DC Power Supply connect to Point C .
   - GND terminal of the DC Power Supply connect to Point A .
   - – 12 V terminal of the DC Power Supply connect to Point B .

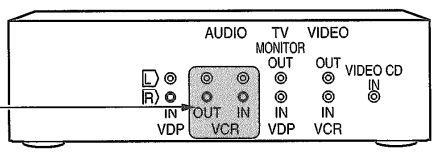




■ To Check Signals

Input the audio signal and confirm it to be outputted from the terminal.

	INPUT	OUTPUT
L-ch	AUDIO IN VCR	AUDIO OUT VCR
R-ch		



■ Schematic Diagram

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

Notes:

- **S301**: EQ SPACE on/flat switch (EQ SPACE ON/FLAT)
- **S302**: Acoustic image EQ switch (ACOUSTIC IMAGE EQ)
- **S303**: EQ SPACE preset/manual select switch (PRESET/MANUAL)
- **S304**: Display mode select/demonstration switch (DISP MODE/–DEMO)
- **S305**: DOLBY PRO LOGIC on/off switch (OFF/ON)
- **S306**: DOLBY PRO LOGIC mode select switch (MODE)
- **S307**: DOLBY PRO LOGIC test signal switch (TEST)
- **S308**: DOLBY PRO LOGIC center mode select switch (CENTER MODE)
- **S309**: Super surround switch (SUPER SURROUND)
- **S310** ~ **S313** : Multi control switch
  (MULTI CONTROL , S310 : ▼, S311 : ◀, S312 : ▲, S313 : ▶)
- **S314**: Super woofer switch (SUPER WOOFER)

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

- Voltage values and waveforms are measured as indicated in the schematic diagram when test points between AG and VG, and between DG and CTG, and between AG and DG are shorted.

- Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety.
  Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
  When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

- **Caution!**
  IC and LSI are sensitive to static electricity.
  Secondary trouble can be prevented by taking care during repair.
  Cover the parts boxes made of plastics with aluminum foil.
  Ground the soldering iron.
  Put a conductive mat on the work table.
  Do not touch the legs of IC or LSI with the fingers directly.

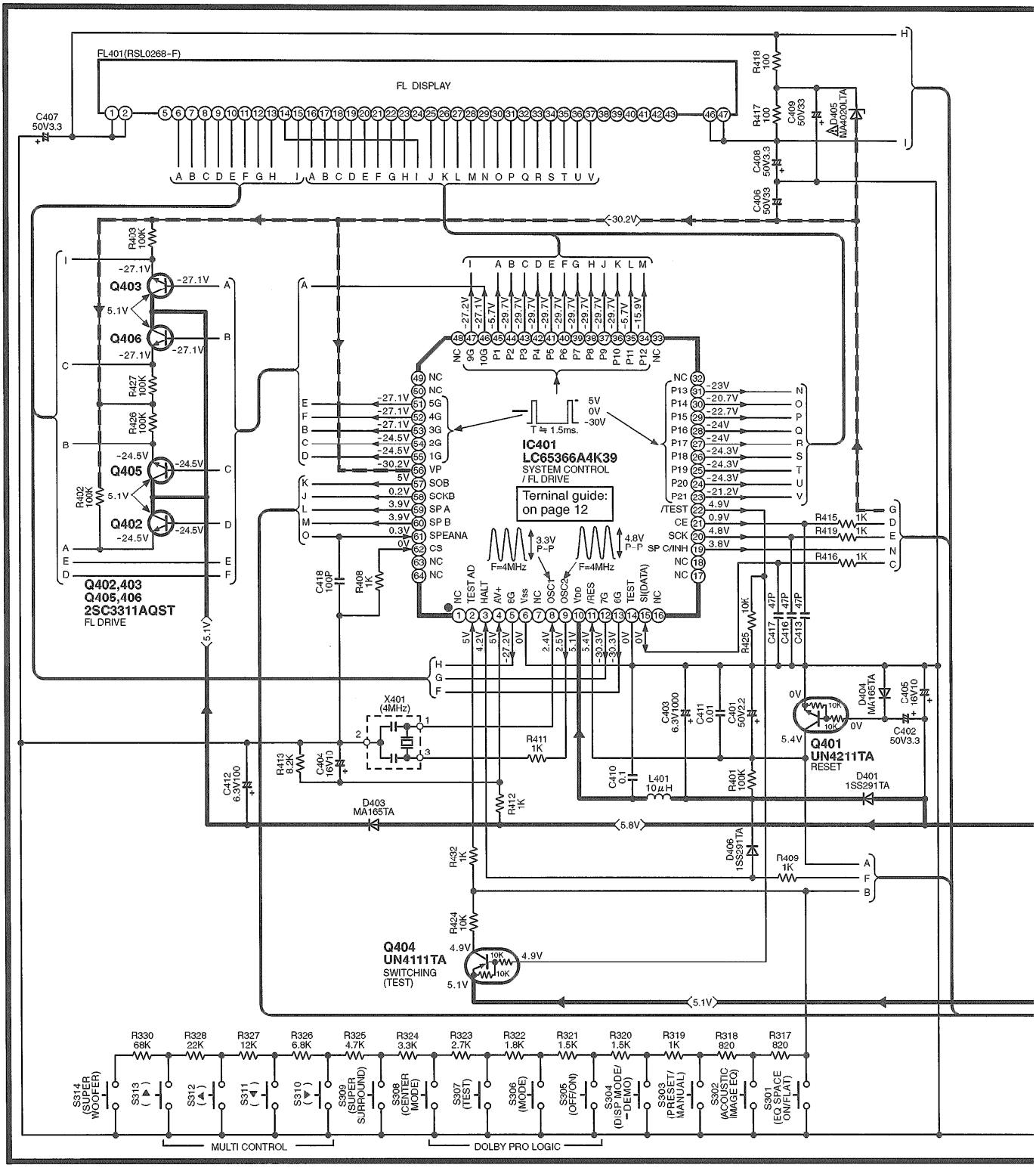
- **Voltage and signal line**

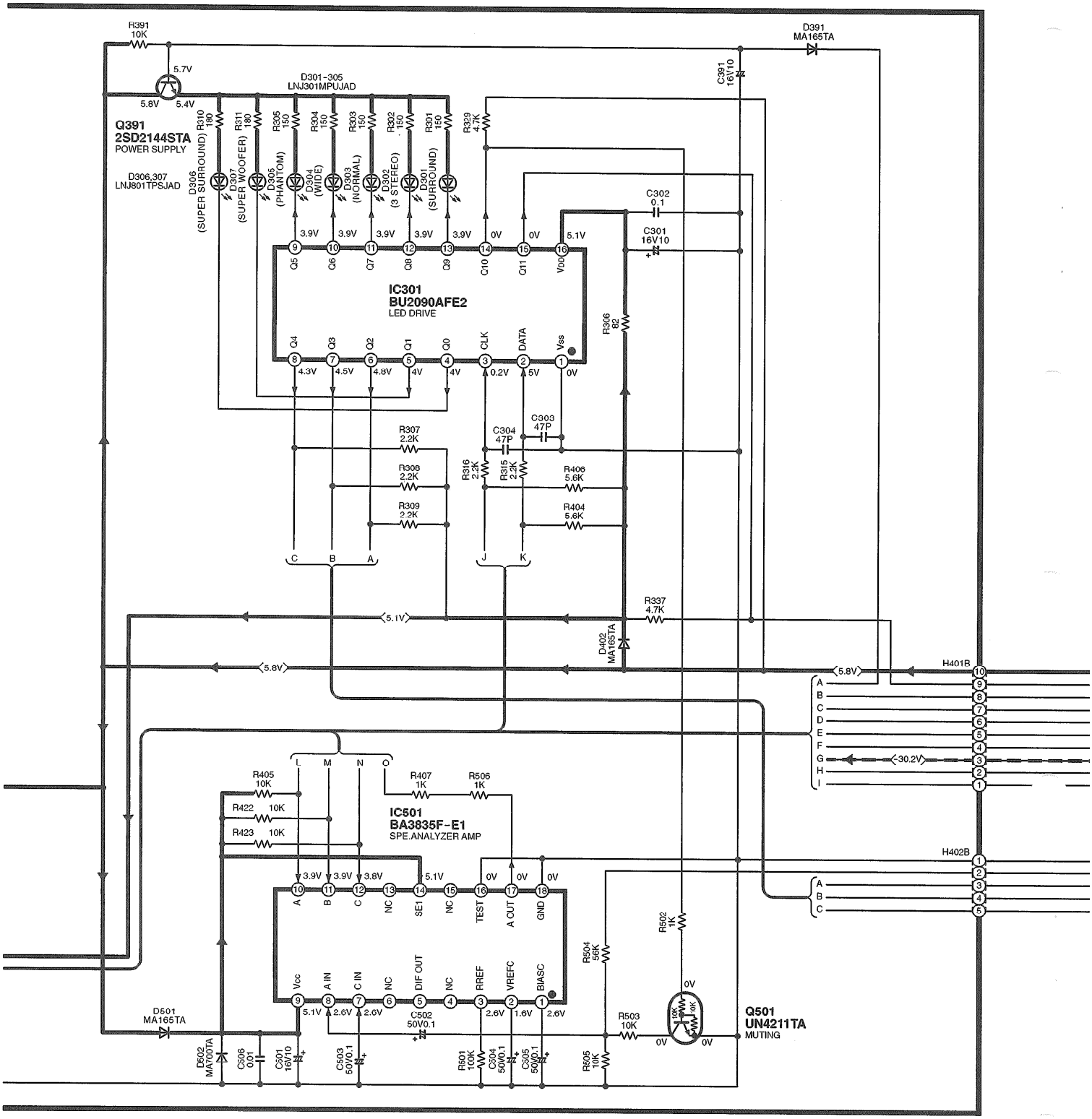
  : Positive voltage line

  : Negative voltage line

  : Source signal line (L-ch)

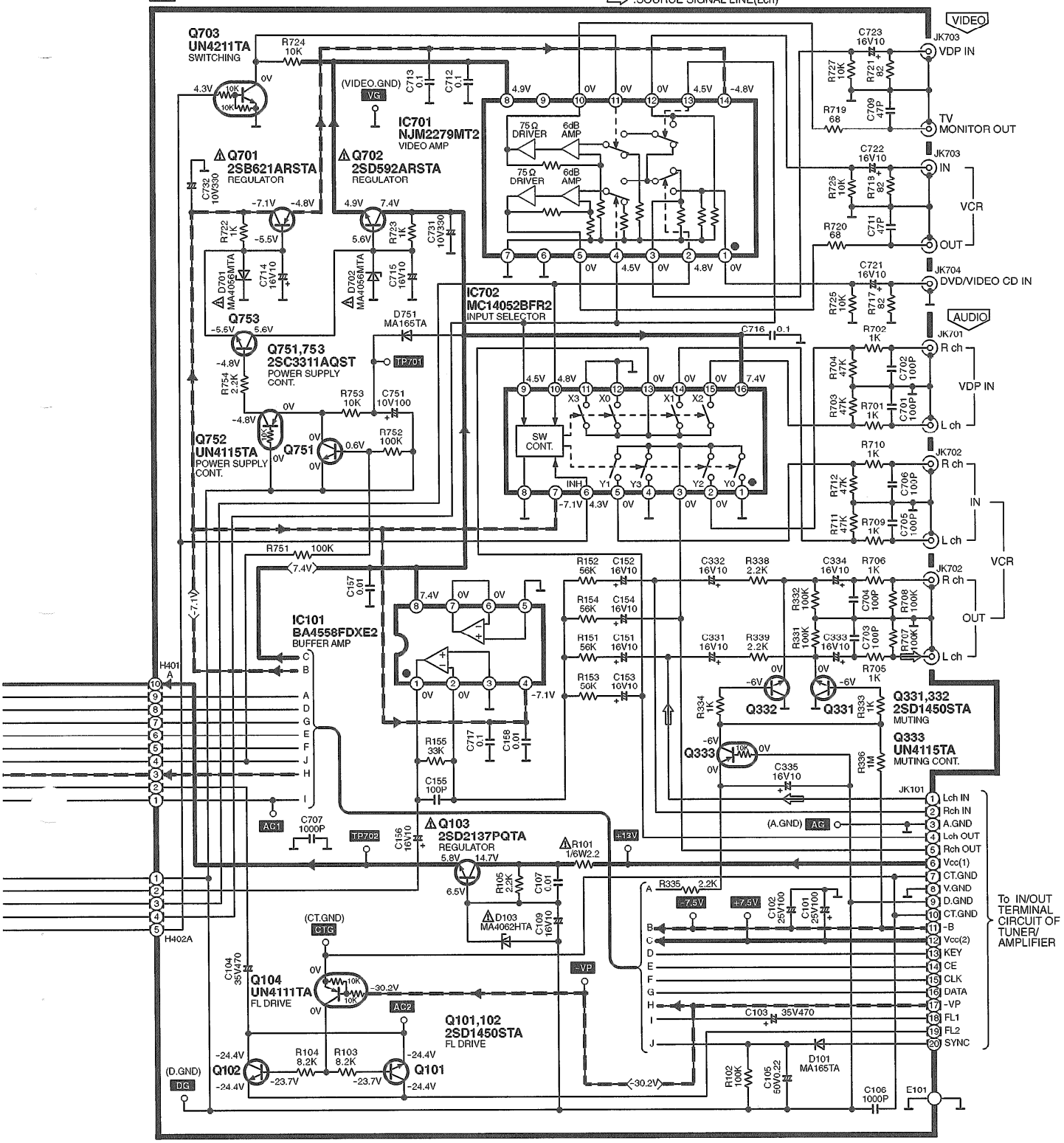
A FL CIRCUIT (P.C.Board: on page 10) :POSITIVE VOLTAGE LINE :NEGATIVE VOLTAGE LINE




R391
10K
5.7V
5.8V
5.4V
D391
MA165TA
C391
16V10
D301-305
LNJ301MPUJAD
Q391
2SD2144STA
POWER SUPPLY
D306,307
LNJ801TPSJAD
D306 (SUPER SURROUND)
D307 (SUPER WOOFER)
D305 (PHANTOM)
D304 (WIDE)
D303 (NORMAL)
D302 (3 STEREO)
D301 (SURROUND)
R310 180
R311 180
R305 150
R304 150
R303 150
R302 150
R301 150
R329 4.7K
C302
0.1
C301
16V10
IC301
BU2090AFE2
LED DRIVE
Q5 Q6 Q7 Q8 Q9 Q10 Q11 VDD
Q4 Q3 Q2 Q1 Q0 CLK DATA Vss
R306
82
C303
47P
C304
47P
R307
2.2K
R308
2.2K
R309
2.2K
R316
2.2K
R315
2.2K
R406
5.6K
R404
5.6K
C B A
J K
R337
4.7K
D402
MA165TA
5.1V
5.8V
H401B
H402B
R405
10K
R422
10K
R423
10K
R407
1K
R506
1K
L M N O
IC501
BA3835F-E1
SPE.ANALYZER AMP
A B C NC SE1 NC TEST A CUT GND
Vcc A IN C IN NC DIF OUT NC RREF VREFC BIASC
R502
1K
R504
56K
R503
10K
Q501
UN4211TA
MUTING
D501
MA165TA
D502
MA700TA
C506
0.01
C501
16V10
C503
50V0.1
C502
50V0.1
R601
100K
C304
50V0.1
C305
50V0.1
R605
10K

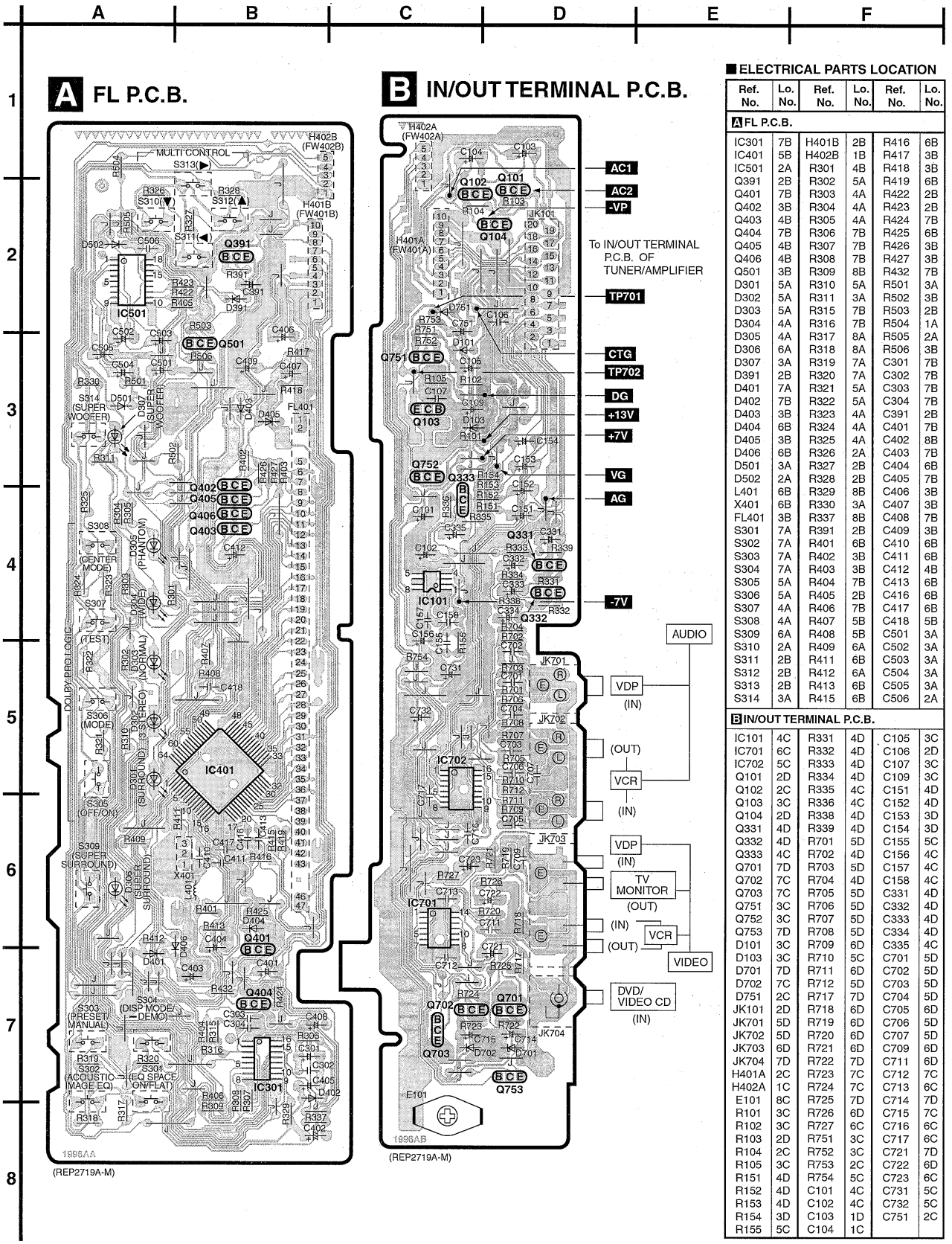
B IN/OUT TERMINAL CIRCUIT (P.C.Board: on page 10)

:POSITIVE VOLTAGE LINE :NEGATIVE VOLTAGE LINE
:SOURCE SIGNAL LINE(Lch)



■ Printed Circuit Board Diagram

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

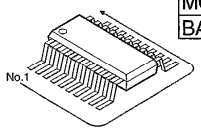


■ ELECTRICAL PARTS LOCATION

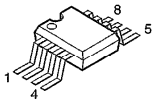
Ref. No.	Lo. No.	Ref. No.	Lo. No.	Ref. No.	Lo. No.
A FL P.C.B.					
IC301	7B	H401B	2B	R416	6B
IC401	5B	H402B	1B	R417	3B
IC501	2A	R301	4B	R418	3B
Q391	2B	R302	5A	R419	6B
Q401	7B	R303	4A	R422	2B
Q402	3B	R304	4A	R423	2B
Q403	4B	R305	4A	R424	7B
Q404	7B	R306	7B	R425	6B
Q405	4B	R307	7B	R426	3B
Q406	4B	R308	7B	R427	3B
Q501	3B	R309	8B	R432	7B
D301	5A	R310	5A	R501	3A
D302	5A	R311	3A	R502	3B
D303	5A	R315	7B	R503	2B
D304	4A	R316	7B	R504	1A
D305	4A	R317	8A	R505	2A
D306	6A	R318	8A	R506	3B
D307	3A	R319	7A	C301	7B
D391	2B	R320	7A	C302	7B
D401	7A	R321	5A	C303	7B
D402	7B	R322	5A	C304	7B
D403	3B	R323	4A	C391	2B
D404	6B	R324	4A	C401	7B
D405	3B	R325	4A	C402	8B
D406	6B	R326	2A	C403	7B
D501	3A	R327	2B	C404	6B
D502	2A	R328	2B	C405	7B
L401	6B	R329	8B	C406	3B
X401	6B	R330	3A	C407	3B
FL401	3B	R337	8B	C408	7B
S301	7A	R391	2B	C409	3B
S302	7A	R401	6B	C410	6B
S303	7A	R402	3B	C411	6B
S304	7A	R403	3B	C412	4B
S305	5A	R404	7B	C413	6B
S306	5A	R405	2B	C416	6B
S307	4A	R406	7B	C417	6B
S308	4A	R407	5B	C418	5B
S309	6A	R408	5B	C501	3A
S310	2A	R409	6A	C502	3A
S311	2B	R411	6B	C503	3A
S312	2B	R412	6A	C504	3A
S313	2B	R413	6B	C505	3A
S314	3A	R415	6B	C506	2A
B IN/OUT TERMINAL P.C.B.					
IC101	4C	R331	4D	C105	3C
IC701	6C	R332	4D	C106	2D
IC702	5C	R333	4D	C107	3C
Q101	2D	R334	4D	C109	3C
Q102	2C	R335	4C	C151	4D
Q103	3C	R336	4C	C152	4D
Q104	2D	R338	4D	C153	3D
Q331	4D	R339	4D	C154	3D
Q332	4D	R701	5D	C155	5C
Q333	4C	R702	4D	C156	4C
Q701	7D	R703	5D	C157	4C
Q702	7C	R704	4D	C158	4C
Q703	7C	R705	5D	C331	4D
Q751	3C	R706	5D	C332	4D
Q752	3C	R707	5D	C333	4D
Q753	7D	R708	5D	C334	4D
D101	3C	R709	6D	C335	4C
D103	3C	R710	5C	C701	5D
D701	7D	R711	6D	C702	5D
D702	7C	R712	5D	C703	5D
D751	2C	R717	7D	C704	5D
JK101	2D	R718	6D	C705	6D
JK701	5D	R719	6D	C706	5D
JK702	5D	R720	6D	C707	5D
JK703	6D	R721	6D	C709	6D
JK704	7D	R722	7D	C711	6D
H401A	2C	R723	7C	C712	7C
H402A	1C	R724	7C	C713	6C
E101	8C	R725	7D	C714	7D
R101	3C	R726	6D	C715	7C
R102	3C	R727	6C	C716	6C
R103	2D	R751	3C	C717	6C
R104	2C	R752	3C	C721	7D
R105	3C	R753	2C	C722	6D
R151	4D	R754	5C	C723	6C
R152	4D	C101	4C	C731	5C
R153	4D	C102	4C	C732	5C
R154	3D	C103	1D	C751	2C
R155	5C	C104	1C		

■ Type Illustration of IC's, Transistors and Diodes

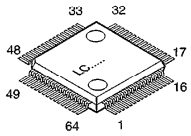
NJM2279MT2	14PIN
BU2090AFE2	16PIN
MC14052BFR2	16PIN
BA3835F-E1	18PIN



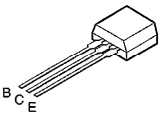
BA4558FDXE2



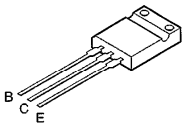
LC65366A4K39

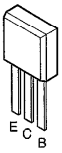


2SD2144STA
2SC3311AQST



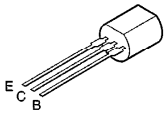
2SD2137PQTA

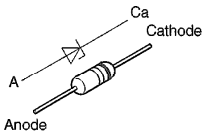




2SD1450STA
UN4111TA
UN4115TA
UN4211TA

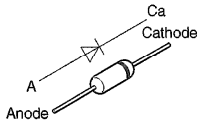
2SB621ARSTA
2SD592ARSTA



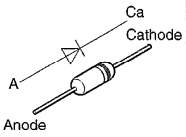


MA4020LTA
MA4056MTA
MA4062HTA

MA165TA
MA700TA



1SS291TA



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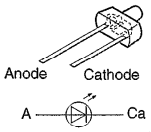
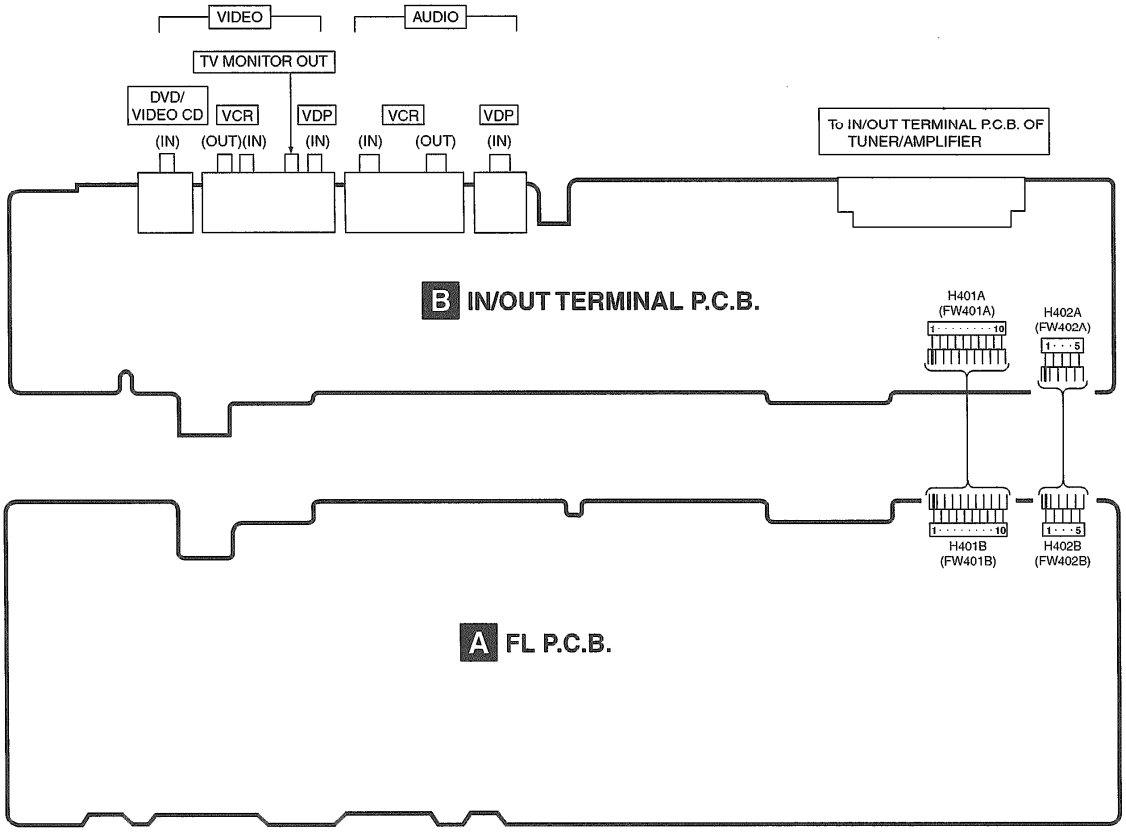


■ Wiring Connection Diagram



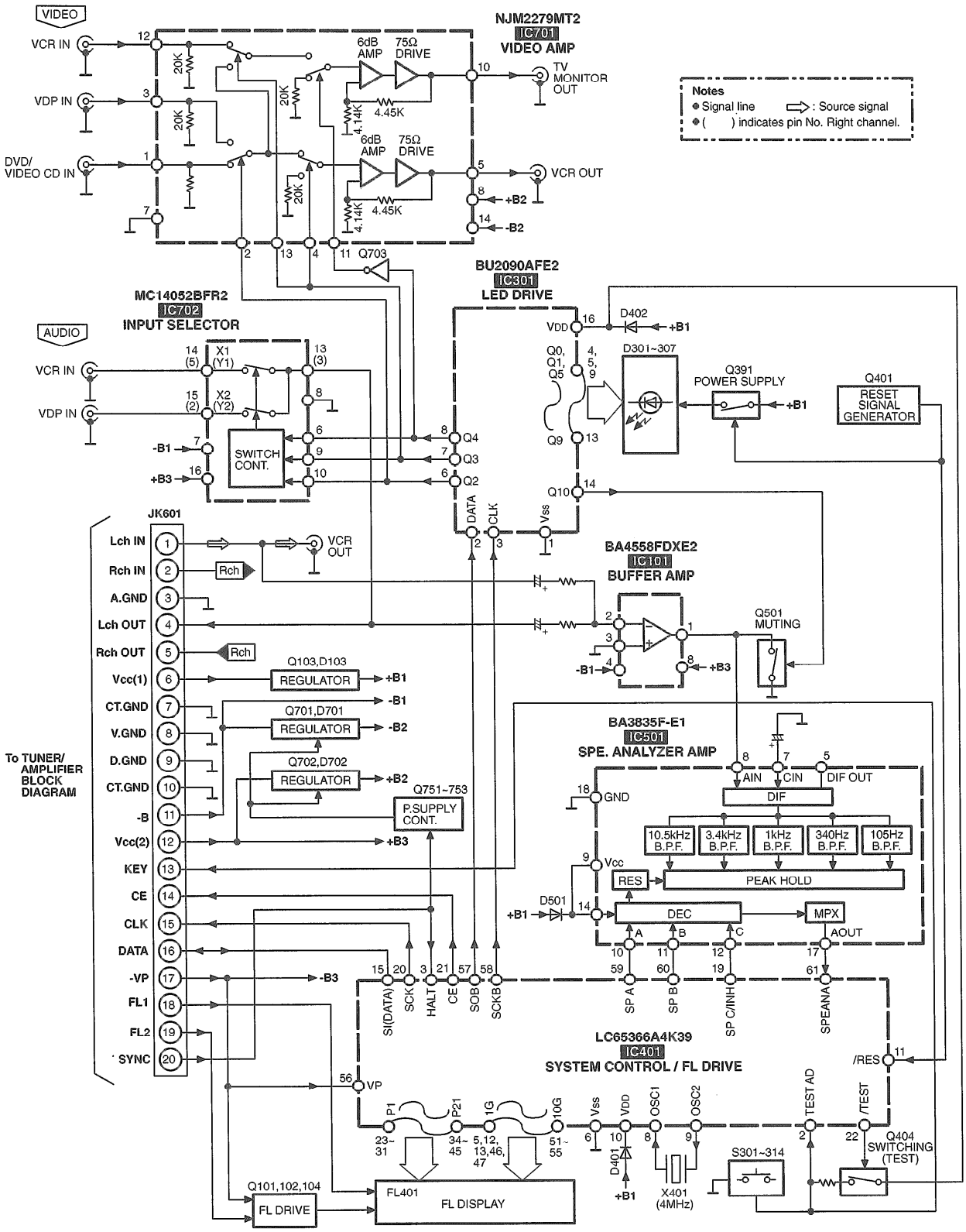
■ Terminal Function of IC's

● IC401 (LC65366A4K39) : System Control / FL Drive

Pin No.	Terminal Name	I/O	Function
1	NC	—	No used, open
2	TEST AD	I	TEST mode key signal input
3	HALT	I	Power failure detect signal input
4	AV+	I	Power supply for analog circuit (+5 V)
5	8G	O	Grid signal output
6	V_{SS}	—	GND terminal
7	NC	—	No used, open
8	OSC1	I	Oscillator connected terminal (4 MHz)
9	OSC2	O	
10	V_{DD}	—	Power supply
11	/RES	I	Reset signal input
12, 13	7G, 6G	O	Grid signal output
14	TEST	—	No used, connected to VSS
15	SI	I/O	Communication data signal input/output
16~18	NC	—	No used, open
19	SP C/INH	O	Select terminal for Spectrum analyzer IC output
20	SCK	O	Serial communication signal output (Clock signal output)

Pin No.	Terminal Name	I/O	Function
21	CE	O	Serial communication signal output (Chip enable signal output)
22	/TEST	O	Test signal terminal
23~31	P21~P13	O	Segment signal output
32, 33	NC	—	No used, open
34~45	P12~P1	O	Segment signal output
46, 47	10G, 9G	O	Grid signal output
48~50	NC	—	No used, open
51~55	5G~1G	O	Grid signal output
56	VP	—	Negative power supply
57	SOB	O	Serial data signal output
58	SCKB	O	Serial clock signal output
59	SP A	O	Select terminal to spectrum analyzer IC output
60	SP B	O	
61	SPEANA	I	Analog signal input from spectrum analyzer IC
62	CS	I	Chip select signal input terminal
63, 64	NC	—	No used, open

■ Block Diagram



■ Replacement Parts List

Notes: * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.
* All parts are supplied by MESA.

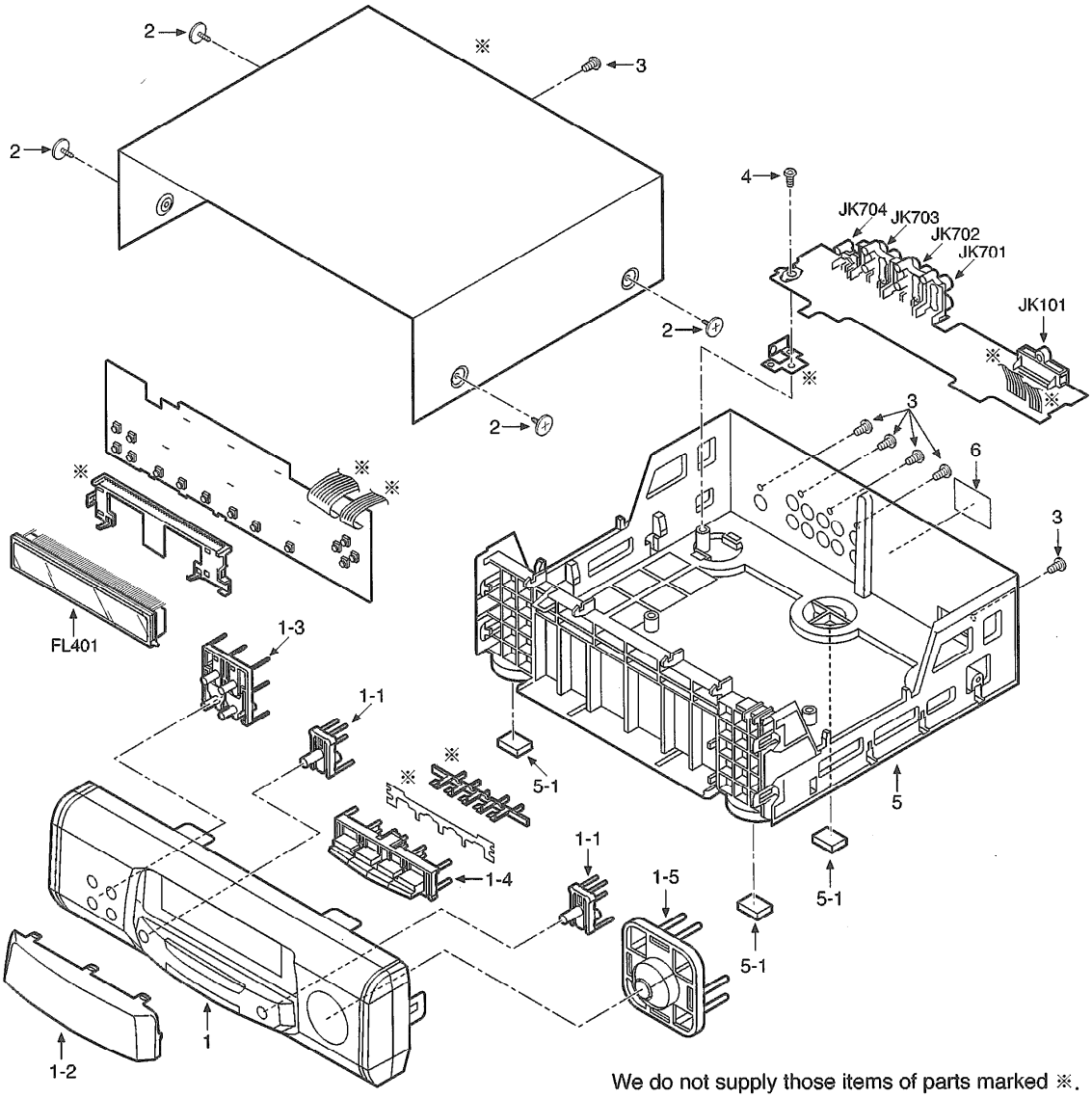
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	RYP0733P-S	FRONT PANEL ASS'Y	1	
1-1	RGU1682-Q	BUTTON 1	2	
1-2	RKW0504-V	FL WINDOW	1	
1-3	RGU1509-S	BUTTON 2	1	
1-4	RGU1510A-S	BUTTON 3	1	
1-5	RGU1511-S	BUTTON 4	1	
2	RHD30007-K1	SCREW	4	
3	XTB3+8JFZ	SCREW	6	
4	XTBS3+8JFZ1	SCREW	1	
5	RYK0700M-K	CHASSIS	1	
5-1	RKA0089-K	RUBBER	3	
6	RGN1560-K	NAME PLATE	1	
C101,02	ECA1EM101	25V 100U	2	
C103,04	RCE1VM471BV	35V 470U	2	
C105	ECEA1HKAR22B	50V 0.22U	1	
C106	ECBT1H102KB5	50V 1000P	1	
C107	ECBT1E103ZF	25V 0.01U	1	
C109	RCE1CKA100BG	16V 10U	1	
C151-54	RCE1CKA100BG	16V 10U	4	
C155	ECBT1H101KB5	50V 100P	1	
C156	RCE1CKA100BG	16V 10U	1	
C157,58	ECBT1E103ZF	25V 0.01U	2	
C301	RCE1CKA100BG	16V 10U	1	
C302	ECBT1H104ZF5	50V 0.1U	1	
C303,04	ECBT1H470J5	50V 47P	2	
C331-35	RCE1CKA100BG	16V 10U	5	
C391	RCE1CKA100BG	16V 10U	1	
C401	ECEA1HKS2R2	50V 2.2U	1	
C402	RCE1HKA3R3BG	50V 3.3U	1	
C403	RCE0JU102BV	6.3V 1000U	1	
C404,05	RCE1CKA100BG	16V 10U	2	
C406	ECEA1HKA330B	50V 33U	1	
C407,08	RCE1HKA3R3BG	50V 3.3U	2	
C409	ECEA1HKA330B	50V 33U	1	
C410	ECBT1H104ZF5	50V 0.1U	1	
C411	ECBT1E103ZF	25V 0.01U	1	
C412	ECEA0JKS101	6.3V 100U	1	
C413	ECBT1H470J5	50V 47P	1	
C416,17	ECBT1H470J5	50V 47P	2	
C418	ECBT1H101KB5	50V 100P	1	
C501	RCE1CKA100BG	16V 10U	1	
C502-05	ECEA1HKS0R1	50V 0.1U	4	
C506	ECBT1E103ZF	25V 0.01U	1	
C701-06	ECBT1H101KB5	50V 100P	6	
C707	ECBT1H102KB5	50V 1000P	1	
C709	ECBT1H470J5	50V 47P	1	
C711	ECBT1H470J5	50V 47P	1	
C712,13	ECBT1H104ZF5	50V 0.1U	2	
C714,15	RCE1CKA100BG	16V 10U	2	
C716,17	ECBT1H104ZF5	50V 0.1U	2	
C721-23	RCE1CKA100BG	16V 10U	3	
C731,32	ECA1AM331	10V 330U	2	
C751	RCE1AKA101BG	10V 100U	1	
D101	MA165	DIODE	1	
⚠ D103	MA4062-H	DIODE	1	
D301-05	LNJ301MPUJAD	LED	5	
D306,07	LNJ801TPSJAD	LED	2	
D391	MA165	DIODE	1	
D401	1SS291TA	DIODE	1	
D402-04	MA165	DIODE	3	
⚠ D405	MA4020LTA	DIODE	1	
D406	1SS291TA	DIODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D501	MA165	DIODE	1	
D502	MA700TA	DIODE	1	
⚠ D701,02	MA4056MTA	DIODE	2	
D751	MA165	DIODE	1	
E101	SNE1004-2	GND PLATE	1	
FL401	RSL0268-F	FL	1	
IC101	BA4558FDXE2	IC	1	
IC301	BU2090AFE2	IC	1	
IC401	LC65366A4K39	IC	1	
IC501	BA3835F-E1	IC	1	
IC701	NJM2279MT2	IC	1	
IC702	MC14052BFR2	IC	1	
JK101	RJT065K20	JACK	1	
JK701	SJF3068-7N	JACK	1	
JK702	SJF3069N	JACK,LINE OUT/QUX IN JACK	1	
JK703	SJF3069-3N	JACK	1	
JK704	SJFD7-5	JACK,VCR1 IN TERMINAL	1	
L401	RLQA100JT-Y	COIL,CHOKE	1	
Q101,02	2SD1450R	TRANSISTOR	2	
⚠ Q103	2SD2137PQTA	TRANSISTOR	1	
Q104	UN4111	TRANSISTOR	1	
Q331,32	2SD1450R	TRANSISTOR	2	
Q333	UN4115	TRANSISTOR	1	
Q391	2SD2144S	TRANSISTOR	1	
Q401	UN4211	TRANSISTOR	1	
Q402,03	2SC3311AQST	TRANSISTOR	2	
Q404	UN4111	TRANSISTOR	1	
Q405,06	2SC3311AQST	TRANSISTOR	2	
Q501	UN4211	TRANSISTOR	1	
⚠ Q701	2SB621A-R	TRANSISTOR	1	
⚠ Q702	2SD592ARSTA	TRANSISTOR	1	
Q703	UN4211	TRANSISTOR	1	
Q751	2SC3311AQST	TRANSISTOR	1	
Q752	UN4115	TRANSISTOR	1	
Q753	2SC3311AQST	TRANSISTOR	1	
⚠ R101	ERQ16NKW2R2E	1/6W 2.2	1	
R102	ERDS2FJ104	1/4W 100K	1	
R103,04	ERDS2FJ822	1/4W 8.2K	2	
R105	ERDS2FJ222	1/4W 2.2K	1	
R151-54	ERDS2FJ563	1/4W 56K	4	
R155	ERDS2FJ333	1/4W 33K	1	
R301-05	ERDS2FJ151	1/4W 150	5	
R306	ERDS2FJ820	1/4W 82	1	
R307-09	ERDS2FJ222	1/4W 2.2K	3	
R310,11	ERDS2FJ181	1/4W 180	2	
R315,16	ERDS2FJ222	1/4W 2.2K	2	
R317,18	ERDS2FJ821	1/4W 820	2	
R319	ERDS2FJ102	1/4W 12K	1	
R320,21	ERDS2FJ152	1/4W 1.5K	2	
R322	ERDS2FJ182	1/4W 1.8K	1	
R323	ERDS2FJ272	1/4W 2.7K	1	
R324	ERDS2FJ332	1/4W 3.3K	1	
R325	ERDS2FJ472	1/4W 4.7K	1	
R326	ERDS2FJ682	1/4W 6.8K	1	
R327	ERDS2FJ123	1/4W 12K	1	
R328	ERDS2FJ223	1/4W 22K	1	
R329	ERDS2FJ472	1/4W 4.7K	1	
R330	ERDS2FJ683	1/4W 68K	1	
R331,32	ERDS2FJ104	1/4W 100K	2	
R333,34	ERDS2FJ102	1/4W 1K	2	
R335	ERDS2FJ222	1/4W 2.2K	1	
R336	ERDS2FJ105	1/4W 1M	1	
R337	ERDS2FJ472	1/4W 4.7K	1	
R338,39	ERDS2FJ222	1/4W 2.2K	2	
R391	ERDS2FJ103	1/4W 10K	1	
R401-03	ERDS2FJ104	1/4W 100K	3	
R404	ERDS2FJ562	1/4W 5.6K	1	
R405	ERDS2FJ103	1/4W 10K	1	
R406	ERDS2FJ562	1/4W 5.6K	1	
R407-09	ERDS2FJ102	1/4W 1K	3	
R411,12	ERDS2FJ102	1/4W 1K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R413	ERDS2FJ822	1/4W 8.2K	1	
R415,16	ERDS2FJ102	1/4W 1K	2	
R417,18	ERDS2FJ101	1/4W 100	2	
R419	ERDS2FJ102	1/4W 1K	1	
R422-25	ERDS2FJ103	1/4W 10K	4	
R426,27	ERDS2FJ104	1/4W 100K	2	
R432	ERDS2FJ102	1/4W 1K	1	
R501	ERDS2FJ104	1/4W 100K	1	
R502	ERDS2FJ102	1/4W 1K	1	
R503	ERDS2FJ103	1/4W 10K	1	
R504	ERDS2FJ563	1/4W 56K	1	
R505	ERDS2FJ103	1/4W 10K	1	
R506	ERDS2FJ102	1/4W 1K	1	
R701,02	ERDS2FJ102	1/4W 1K	2	
R703,04	ERDS2FJ473	1/4W 47K	2	
R705,06	ERDS2FJ102	1/4W 1K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R707,08	ERDS2FJ104	1/4W 100K	2	
R709,10	ERDS2FJ102	1/4W 1K	2	
R711,12	ERDS2FJ473	1/4W 47K	2	
R717,18	ERDS2FJ820	1/4W 82	2	
R719,20	ERDS2FJ680	1/4W 68	2	
R721	ERDS2FJ820	1/4W 82	1	
R722,23	ERDS2FJ102	1/4W 1K	2	
R724-27	ERDS2FJ103	1/4W 10K	4	
R751,52	ERDS2FJ104	1/4W 100K	2	
R753	ERDS2FJ103	1/4W 10K	1	
R754	ERDS2FJ222	1/4W 2.2K	1	
S301-14	EVQPTD05Q	SW,PUSH	14	
X401	EF0EC4004T4	OSCILLATOR	1	

■ Cabinet Parts Location



We do not supply those items of parts marked ※.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	RYP0733P-S	FRONT PANEL ASS'Y	1	
1-1	RGU1682-Q	BUTTON 1	2	
1-2	RKW0504-V	FL WINDOW	1	
1-3	RGU1509-S	BUTTON 2	1	
1-4	RGU1510A-S	BUTTON 3	1	
1-5	RGU1511-S	BUTTON 4	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
2	RHD30007-K1	SCREW	4	
3	XTB3+8JFZ	SCREW	6	
4	XTBS3+8JFZ1	SCREW	1	
5	RYK0700M-K	CHASSIS	1	
5-1	RKA0089-K	RUBBER	3	
6	RGN1560-K	NAME PLATE	1	

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