

Service Manual

COMPACT
disc
DIGITAL AUDIO



MASH*1
multi-stage noise shaping

*2 **DOLBY B NR**

CD Stereo System

SA-CH72

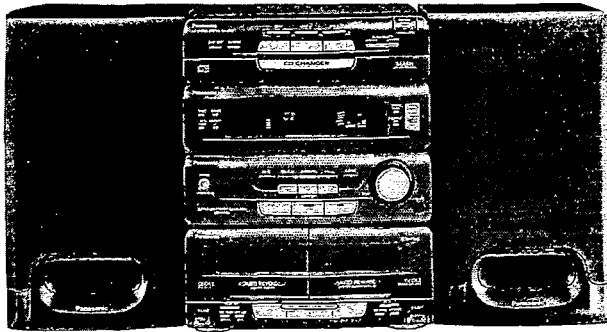
Colour

(K) Black Type

Area

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

Remote
Control
Transmitter



SB-CH72

SA-CH72

SB-CH72

TAPE SECTION : AR300 MECHANISM SERIES

CD SECTION : RAE0113Z TRAVERSE DECK SERIES

Specifications

Amplifier Section

1 kHz continuous power output, both channels driven	2 x 35 W (THD 1%, 6Ω)
RMS	2 x 47 W (THD 10%, 6Ω)
Total harmonic distortion	
Half power at 1 kHz	0.07 % (6Ω)
Frequency response	
CD, AUX	45 Hz — 20 kHz (−3 dB)
Input sensitivity and impedance	
AUX	250 mV, 28 kΩ
Load impedance	6 Ω

FM Tuner Section

Frequency range	87.5 — 108.0 MHz
Sensitivity	23.3 dBf
Total harmonic distortion	
MONO	0.3%
STEREO	0.5%
S/N MONO	60 dB
Image rejection at 98 MHz	35 dB
Stereo separation at 1 kHz	35 dB
Antenna terminal(s)	75 Ω (unbalanced)

AM Tuner Section

Frequency range	
MW	522 — 1611 kHz
LW	144 — 288 kHz
Sensitivity (for 500 mW)	
MW (at 999 kHz)	250 μV/m
LW (at 252 kHz)	500 μV/m

Notes :

- Specifications are subject to change without notice.
Weight and dimensions are approximate.
- Total harmonic distortion is measured by the digital spectrum analyzer.

*2

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

Cassette Deck Section

Track system	4 track, 2 channel
Heads	
Playback	Solid permalloy head (Rotary head)
Record/playback	Solid permalloy head (Rotary head)
Erasure	Double gap ferrite head
Motor	DC servo motor
Recordingsystem	AC bias 100 kHz
Erasing system	AC erase 100 kHz
Tapespeed	4.8 cm/s (1 7/8 ips)
Frequency response	
NORMAL	40 Hz — 14 kHz (+3 dB, −6 dB)
CrO ₂	40 Hz — 14 kHz (+3 dB, −6 dB)
S/N (CrO ₂ type)	
Dolby NR off	52 dB (A-WTD)
Dolby NR on	61 dB (CCIR)
Wow and flutter	0.1% (WRMS)
Fast forward and rewind time	
	Approx. 110 seconds with C-60 cassette tape

CD Changer Section

Sampling frequency	44.1 kHz
Decoding	16 bit linear
Beam source/wavelength	Semiconductor laser/780 nm
Number of channels	Stereo
Frequency response	20 Hz — 20 kHz (+1, −2 dB)
S/N	
CD UNIT OUT	95 dB (JIS, A)
Wow and flutter	Below measurable limit
Digital filter	4 fs
D/A converter	MASH (1 bit DAC)

General

Power consumption	120 W
Power supply	AC 50 Hz, 230 V (E, EG) AC 50 Hz, 230 — 240 V (EB)
Dimensions (W x H x D)	270 x 345 x 327 mm
Weight	8.2 kg

*1

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Panasonic®

General Inspection

Note : Please use the remote control transmitter with part number EUR643801 when performing the inspection.

FUNCTION	CHECKING	REMARKS
1. To enter TEST MODE.	1 2 3 4 5 6 7 8 9 10 11 12 DISC 1 2 3 SIDEAB ▶	

■ Display Functions of Automatically-Adjusted Results (Self-Check Function)

Note : Please use the remote control transmitter with part number EUR643801 when performing the Self-Check Function.

The unit contains a function which displays the result of the automatically adjustment of the servo circuits (tracking, focus servo, etc.) as an error code on the FL display.

The error code display serves as a repair guide showing the automatically adjustment circuit is at fault. The procedures for displaying the error codes are given below.

• Procedures to display the error code

1. Switch the unit to "ON".
2. Press the "□" (Tape STOP) button, then simultaneously press "4". Release "4" key and press the "7" key.
3. The "D-0" will appear on the FL display for 2 seconds and then change to "CD"
4. "E00" will appear if no error is found.
5. The error code provides a rough indication of which servo circuit is malfunctioning.

• Error code based troubleshooting

- The unit is satisfactory if the error code is E00.
- Before testing , make sure that the test disc is free of scratches and dirt and optical pickup is clean.

FL error code display	Symptom	Probable cause	Signal to check		Normal the values of voltage and waveform	
			Signal name	Location	PLAY	STOP
E01	Focus and tracking offset adjustments did not complete in the specified time period.	① Clocks X1 and X2, power supply VDD, and reset/RST, all on IC702. ② MDATA, MCLK, MLD and SENSE signals to/from the mechanism controller.	MDATA	IC702 ⑧ pin	 T=13.6 ms 4.8V 0V	4.8V
			MCLK	IC702 ⑦ pin	 T=13.6 ms 4.8V 0V	4.8V
			MLD	IC702 ⑨ pin		
			SENSE	IC702 ⑩ pin	0V	0V
			/RST	IC702 ⑱ pin	4.9V	4.9V
			X1	IC702 ⑤⑧ pin	 F=16.9344 MHz 1.1V p-p	 F=16.9344 MHz 1.1V p-p
			X2	IC702 ⑤⑨ pin	 F=16.9344 MHz 4.8V p-p	 F=16.9344 MHz 4.8V p-p
E03 E05 E07 E09 E0B E0D E0F	Disc play unstable	① Scratches or contaminants on disc surface. ② Focus and tracking servo circuits (check waveforms, voltage, and part constants). ③ Spindle driver circuit. ④ Optical pickup.	FE	IC702 ③② pin	 2ms 0.1V/DIV 0.3V p-p	2.4V
			TE	IC702 ③③ pin	 2ms 0.1V/DIV 0.4V p-p	2.4V
			FOD	IC702 ②⑧ pin	2.4V	2.4V
			TRD	IC702 ②⑦ pin	2.4V	2.4V
			KICK	IC702 ②⑥ pin	2.4V	2.4V
			/FLOCK	IC702 ①① pin	0V	4.9V
			/RF DET	IC702 ③⑧ pin	0V	4.8V
			RF	TJ701	 0.5μs 0.1V/DIV 1.2V p-p	3.4V
			STAT	IC702 ①⑦ pin	3.5V	0V
E04 E06 E0C E0E	Best Eye (PD Balance) adjustment did not complete in specified time period.	① Scratches or contaminants on disc surface. ② Focus and tracking servo circuits (check waveforms, voltage, and part constants). ③ Optical pickup.	FBAL	IC702 ③⑩ pin	2.5 ± 1.25V	2.5 ± 1.25V
			RF	TJ701	 0.5μs 0.1V/DIV 1.2V p-p	3.4V
			FE	IC702 ③② pin	 2ms 0.1V/DIV 0.3V p-p	0V
			/TLOCK	IC702 ①② pin	0V	0V
			OFT	IC702 ③⑥ pin	0V	0V
E08 E0A	Focus or tracking gain adjustment did not complete in the specified time period.	① Scratches or contaminants on disc surface. ② Focus and tracking servo circuits (check waveforms, voltage, and part constants). ③ Optical pickup.	FE	IC702 ③② pin	 2ms 0.1V/DIV 0.3V p-p	2.4V
			TE	IC702 ③③ pin	 2ms 0.1V/DIV 0.4V p-p	2.4V
			/TLOCK	IC702 ①② pin	0V	0V
			OFT	IC702 ③⑥ pin	0V	0V

■ Self-Diagnostic Display Function

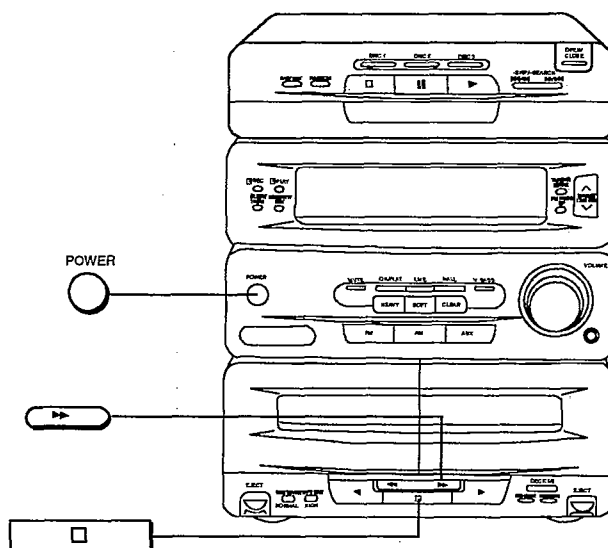
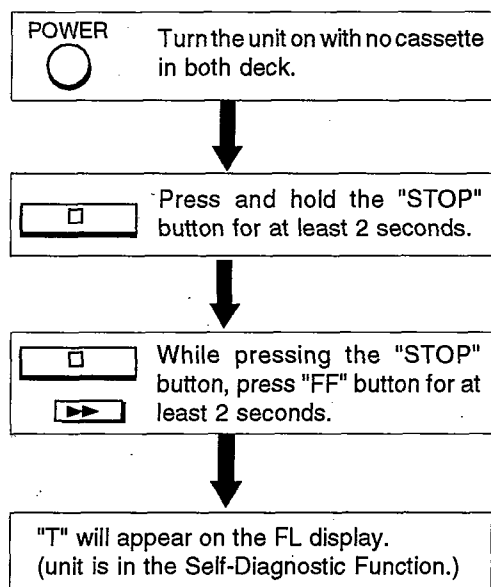
■ Self-diagnostic display

This unit is equipped with a self-diagnosis display function which, if a problem occurs, will display an error code corresponding to the problem. Use this function when performing maintenance on the unit.

■ Preparation

- * Normal blank tape with recording prevention tab on one side.
- * Normal pre-recorded tape with data on both sides and recording prevention tabs intact.

■ How to enter the Self-Diagnostic Function.



■ Cassette Deck Test

1. Press "DECK 1/2" button to select DECK 2.
2. Load the normal blank tape into DECK 2. (Recording prevention tab at the left hand side)
3. Press the "FF" (▶▶) button. (Tape will fast forward for about 2 seconds and stop automatically)
4. Press the "REW" (◀◀) button. (Tape will rewind for about 2 seconds and stop automatically.)
5. Remove the tape from DECK 2.
6. Load the normal pre-recorded tape into DECK 2.
7. Press "PLAY" (▶). (TPS function starts and will stop automatically.)
8. Press "REC PAUSE" button. (The mechanism should not move.)
9. Remove the cassette tape.
10. Press "DECK 1/2" button to select DECK 1.
11. Repeat steps 2 ~ 9.

• To Display Self-Diagnostic Result

1. Press "DECK 1/2" button to select the deck require.
2. Press "STOP" (□) button. (Error code will appear if there is any malfunction.)
 - * If several problem exist, error code will change each time you press "STOP" button.
(e.g.. H02 → H03 → F01....H02....etc.)
 - * If no problem, "T" will remain unchange.

■ CD Changer Test (F15 ~ F26)

1. Press "SKIP/SEARCH" (▶▶/◀◀) button. (Self-Diagnostic function will perform for 25 seconds.)

• To Display Self-Diagnostic Result

1. Press Deck 1 "STOP" (□) button.
 - * If several problem exist, error code will change each time you press "STOP" button.
(e.g.. H02 → H03 → F01....H02....etc.)
 - * If no problem, "T" will remain unchange.

■ Power Amplifier Test (F61)

- * When the power is ON, F61 will display for 3 seconds and OFF automatically.

■ How to Get out From Self-Diagnostic Function

1. For error codes other than F61:
 - * Press the "POWER" button to switch off the unit.
2. For F61 error code:
 - * The unit remain OFF until the fault is fixed.

■ To Display Error Code Again

- * Follow the steps on "How to enter the Self-Diagnostic Function" and press the deck "STOP" (□) button.
(Except F61)

■ How To Clear The Error Code From Memory

(These error codes are stored in memory and must be cleared when the fault has been fixed.)

1. Press the "STOP" (□) button for at least 5 second while the error code is displayed.
2. "CLEAR" will be displayed for 1 second and replace with "T".
3. Turn off the unit.

■ Interpretation of error codes

Error code	Problem condition	Correction procedure
H01	Faulty operation of cassette mechanism. Example: Reverse-play operation performs when FWD button is pressed.	Faulty cassette mechanism mode switch [S951, S971] and plunger. (Check and replace)
H02	Recording not possible, or recording mode entered even though erasure prevention tabs have been removed.	Faulty contact or short-circuit of erasure prevention switches [S973, S974]. (Check and replace)
H03	Playback not performed when Play (◀▶) button is pressed. Motor turns when Play (▶) button is pressed even though there is no tape cassette loaded in cassette holder.	Faulty contact or short-circuit of cassette half detect switch. [S972] (Check and replace)
F01	When the Play (▶) button is pressed, the tape advances slightly and then stops.	Faulty reel pulse, faulty hole detect IC. [IC951, IC971] (Check and replace)
F02	Cassette deck will not perform TPS function.	Faulty playback EQ/recording amplifier IC. [IC101] (Check and replace)
F15	Relatively long time (about 8 seconds) is required to begin play when the CD Play (▶) button is pressed from the power-off state or from a function other than CD player.	Faulty contact on CD mechanism optical pick-up rest switch [S701]. (Check and replace)
F16	CD traverse "UP" switch faulty. e.g. CD traverse push up the rotary tray.	Faulty contact on switch S501. (Check and replace)
F17	CD traverse "DOWN" switch faulty. e.g. Tray open.	Faulty contact on switch S501. (Check and replace)
F18	Faulty tray rotational detection. e.g. Tray does not stop at initial position.	Faulty optical sensor. (Check D503 and replace)
F19	Rotary tray does not move.	Faulty optical sensor or motor. (Check D502 and replace)
F20	Faulty loading motor rotation detection. e.g. Tray rotates forward or reverse continuously or open and close repeatedly.	Faulty optical sensor. (Check D502 and replace)
F21	Loading motor rotate in reverse direction. e.g. Tray rotates forward or reverse continuously or open and close repeatedly.	Faulty motor instruction or loading circuit of IC, transistor. (Check and replace)
F22	Faulty loading motor or loading mechanism. e.g. Tray doesn't move even "PLAY" (▶) button is pressed. No loading operation when "▲ OPEN/CLOSE" button is pressed.	Faulty motor or loading mechanism parts. (Check and replace)
F23	Rotary tray does not move or keep rotating.	Faulty solenoid or drive circuit. (Check drive transistor Q314, Q315 and solenoid)
F24	Faulty "Half open switch". e.g. When tray open during play, tray become full open condition.	Faulty "Half open switch" (Check S502 and replace)
F25	Faulty "Full open switch" e.g. Tray closes automatically after 3 ~ 4 seconds.	Faulty "Full open switch" (Check S502 and replace)
F26	CD does not function even when pressing Play (▶) button. CD track jumps. CD rotates irregularly.	Faulty system contact (IC900) or servo processor (IC702). (Check and replace) Faulty connection or broken of FPC for CD circuit. (Check and replace)
F61	When power is switched on it automatically switches immediately back off, and cannot be switched on. (Faulty speaker output IC is causing DC voltage to be output to speakers.)	Faulty speaker output IC (IC501). (Check and replace)
F75	"NO DISC" indication show in the FL display even CD is loaded.	Faulty power circuit of CD (IC501 or circuit for power supply) (Check and replace) Faulty servo processor IC (IC702). (Check and replace)

NOTE:

- * For the cassette deck to perform the TPS (tape program sensor) function, there must be black spaces with no signal recorded between the programs on the tape, so the following types of recorded tapes cannot be used.

- Tape on which the blank space between programs is less than 4 seconds long.
- Tapes on which there is no unrecorded black spaces (such as a tape recorded using a microphone).
- When there are very low-level or silent sections within a program (such as some classical music recordings).
- When less than 10 seconds have passed after the start of the program or when there is less than 10 seconds remaining until the start of the next program.
- When the recording has been made using a fade-in (gradually increasing level) or fade-out (gradually decreasing level).

■ Terminal Functions Of ICs

• IC701 (AN8802SCE1V) Servo Amplifier

Pin No.	Mark	I/O	Function
1	PDAD	I	PDA channel signal input with delay
2	PDA	I	PDA channel signal input without delay
3	LPD	I	Laser PD connection
4	LD	O	Power supply for LD driving
5	AMPI	I	RF amplifier input
6	VCC	I	Power supply connection
7	AMPO	O	RF amplifier output (Not used, open)
8	CAGC	I	AGC loop filter connection
9	ARF	O	RF AGC output
10	CENV	I	Capacitor connection for RF detection
11	CEA	I	Capacitor connection for HPF amplifier
12	GND	—	Ground connection
13	LDON	I	ON/OFF input of LD APC("H" : ON, "L" : OFF)
14	TES	I	Tracking error shunt signal input
15	PLAY	I	Play signal input ("H" : PLAY)
16	WVEL	I	Double speed ("H" : double, "L" : single)

Pin No.	Mark	I/O	Function
17	BDO	O	Dropout detection control
18	/RFDET	O	RF detection signal ("L" : detection)
19	CROSS	O	Tracking error zero cross output
20	OFTR	O	Off-track detection ("H" : detection)
21	VDET	O	Vibration detection signal output("H" : detection)
22	ENV	O	Envelope output terminal
23	TEBPF	I	Vibration detection signal input
24	TE	O	Tracking error signal output
25	FE	O	Focus error signal output
26	PTO	O	Potential amplifier inversion input (Not used, open)
27	PTI	I	Potential amplifier inversion output (Not used, open)
28	TBAL	I	Tracking balance signal input
29	FBAL	I	Focus balance signal input
30	VREF	O	Reference voltage output
31	PDB	I	Photo detection Bch input without delay
32	PDBD	I	Photo detection Bch input with delay

• IC703 (AN8389SE1) Focus coil / Tracking coil / Traverse motor / Spindle motor driver

Pin No.	Mark	I/O	Function
1	VCC	I	Power supply terminal
2	VREF	I	Reference voltage input
3	IN4	I	Motor driver (4) input
4	IN3	I	Motor driver (3) input
5	GND	—	Ground connection
6	NC	—	Ground connection
7	NRESET	I	Reset input
8	GND	—	Ground connection
9	IN2	I	Motor driver (2) input
10	PC2	I	PC2 (power cut) input
11	IN1	I	Motor driver (1) input
12	PC1	I	PC1 (power cut) input (Not used, open)

Pin No.	Mark	I/O	Function
13	PVCC1	I	Power supply (1) for driver
14	PGND1	—	Ground connection (1) for driver
15	D1—	O	Motor driver (1) reverse-action output
16	D1+	O	Motor driver (1) forward-action output
17	D2—	O	Motor driver (2) reverse-action output
18	D2+	O	Motor driver (2) forward-action output
19	D3—	O	Motor driver (3) reverse-action output
20	D3+	O	Motor driver (3) forward-action output
21	D4—	O	Motor driver (4) reverse-action output
22	D4+	O	Motor driver (4) forward-action output
23	PGND2	—	Ground connection (2) for driver
24	PVCC2	I	Power supply (2) for driver

• IC702 (MN66271RA) Servo processor / Digital signal processor / Digital filter / D/A converter

Pin No.	Mark	I/O	Function
1	BCLK	O	Serial bit clock terminal (Not used, open)
2	LRCK	O	L/R discriminating signal (Not used, open)
3	SRDATA	O	Serial data (Not used, open)
4	DVDD1	I	Power supply (digital circuit) terminal
5	DVSS1	—	GND (digital circuit) terminal
6	TX	O	Digital audio interface signal
7	MCLK	I	Microprocessor command clock signal
8	MDATA	I	Microprocessor command data signal
9	MLD	I	Microprocessor command load signal
10	SENSE	O	Sense signal output (OFT, FESL, MAGEND, NAJEND, POSAD, SFG)
11	/FLOCK	O	Optical servo condition (focus) ("L" : lead-in)
12	/TLOCK	O	Optical servo condition (tracking) ("L" : lead-in)
13	BLKCK	O	Sub-code block clock (f=75Hz)
14	SQCK	I	External clock signal input for sub-code Q register.
15	SUBQ	O	Sub-code Q code output
16	DMUTE	I	Muting input ("H" : mute)
17	STAT	O	Status signal output (CRC, CUE, CLVS, TTSTVP, FCLV, SQCK)
18	/RST	I	Reset input
19	SMCK	O	1/2-divided clock signal of crystal oscillating at MSEL = "H" (fSMCK=8.4672MHz) 1/4-divided clock signal of crystal oscillating at MSEL = "L" (fSMCK=4.2336MHz)
20	PMCK	O	1/192-divided clock signal of crystal oscillating (fPMCK=88.2kHz) (Not used, open)
21	TRV	O	Traverse servo control output
22	TVD	O	Traverse drive signal output
23	PC	O	Spindle motor ON signal output ("L" : ON)
24	ECM	O	Spindle motor drive signal output (forced mode output)
25	ECS	O	Spindle motor drive signal output (servo error signal output)
26	KICK	O	Kick pulse output
27	TRD	O	Tracking drive output
28	FOD	O	Focus drive output
29	VREF	I	D/A (drive) output (TVD, ECS, TRD, FOD, FBAL, TBAL) Reference voltage input.
30	FBAL	O	Focus balance adjustment output (Not used, open)
31	TBAL	O	Tracking balance adjustment output
32	FE	I	Focus error signal input (analog input)
33	TE	I	Tracking error signal input (analog input)
34	RFENV	I	RF envelope signal input
35	VDET	I	Vibration detection signal input ("H" : detection)

Pin No.	Mark	I/O	Function
36	OFT	I	Off-track signal input ("H" : off track)
37	TRCRS	I	Track cross signal input
38	/RFDET	I	RF detection signal input ("L" : detection)
39	BDO	I	Dropout signal input ("H" : Dropout)
40	LDON	O	Laser on signal output ("H" : ON)
41	TES	O	Tracking error shunt signal output ("H" : shunt)
42	PLAY	O	Play signal out ("H" : PLAY)
43	WVEL	O	Double speed status signal output ("H" : DS)
44	ARF	I	RF signal input
45	IREF	I	Reference current input
46	DRF	I	DSL bias (Not used, open)
47	DSLIF	I/O	DSL loop filter
48	PLLIF	I/O	PLL loop filter
49	VCOF	I/O	VCO loop filter (Not used, open)
50	AVDD2	I	Power supply input (for analog circuit)
51	AVSS2	—	GND (for analog circuit)
52	EFM	O	EFM signal output (Not used, open)
53	PCK	O	PLL extraction clock output (Not used, open) (fPCK=4.321 MHz during normal playback)
54	PDO	O	Phase comparison signal of EFM and PCK signals (Not used, open)
55	SUBC	O	Sub-code serial data output (Not used, open)
56	SBCK	I	Sub-code frame clock signal output (fCLDCK=7.35kHz during normal playback)
57	VSS	—	GND
58	X1	I	Crystal oscillating circuit input (f=16.9344MHz)
59	X2	O	Crystal oscillating circuit output (f=16.9344MHz)
60	VDD	I	Power supply input (for oscillating circuit)
61	BYTCK	O	Byte clock output (Not used, open)
62	/CLDCK	O	Clock input for sub-code serial data (Not used, open)
63	FCLK	O	Crystal frame clock signal output (fCLK=7.35kHz, double=14.7kHz)
64	IPFLAG	O	Interpolation flag output ("H" : interpolation) (Not used, open)
65	FLAG	O	Flag output (Not used, open)
66	CLVS	O	Spindle servo phase synchronizing signal output ("H" : CLV, "L" : rough servo) (Not used, open)
67	CRC	O	Sub-code CRC checked output ("H" : OK, "L" : NG) (Not used, open)
68	DEMPH	O	De-emphasis ON signal output ("H" : ON) (Not used, open)
69	RESY	O	Frame resynchronizing signal output (Not used, open)
70	/RST2	I	Reset input through MASH circuit ("L" : Reset)
71	/TEST	I	Test input

Pin No.	Mark	I/O	Function
72	AVDD1	I	Power supply input (for analog circuit)
73	OUTL	O	Left channel audio signal output
74	AVSS1	—	GND
75	OUTR	O	Right channel audio signal output
76	RSEL	I	RF signal polarity assignment input (at "H" level, RSEL="H", at "L" level, RSEL="L")
77	CSEL	I	Crystal oscillating frequency designation input

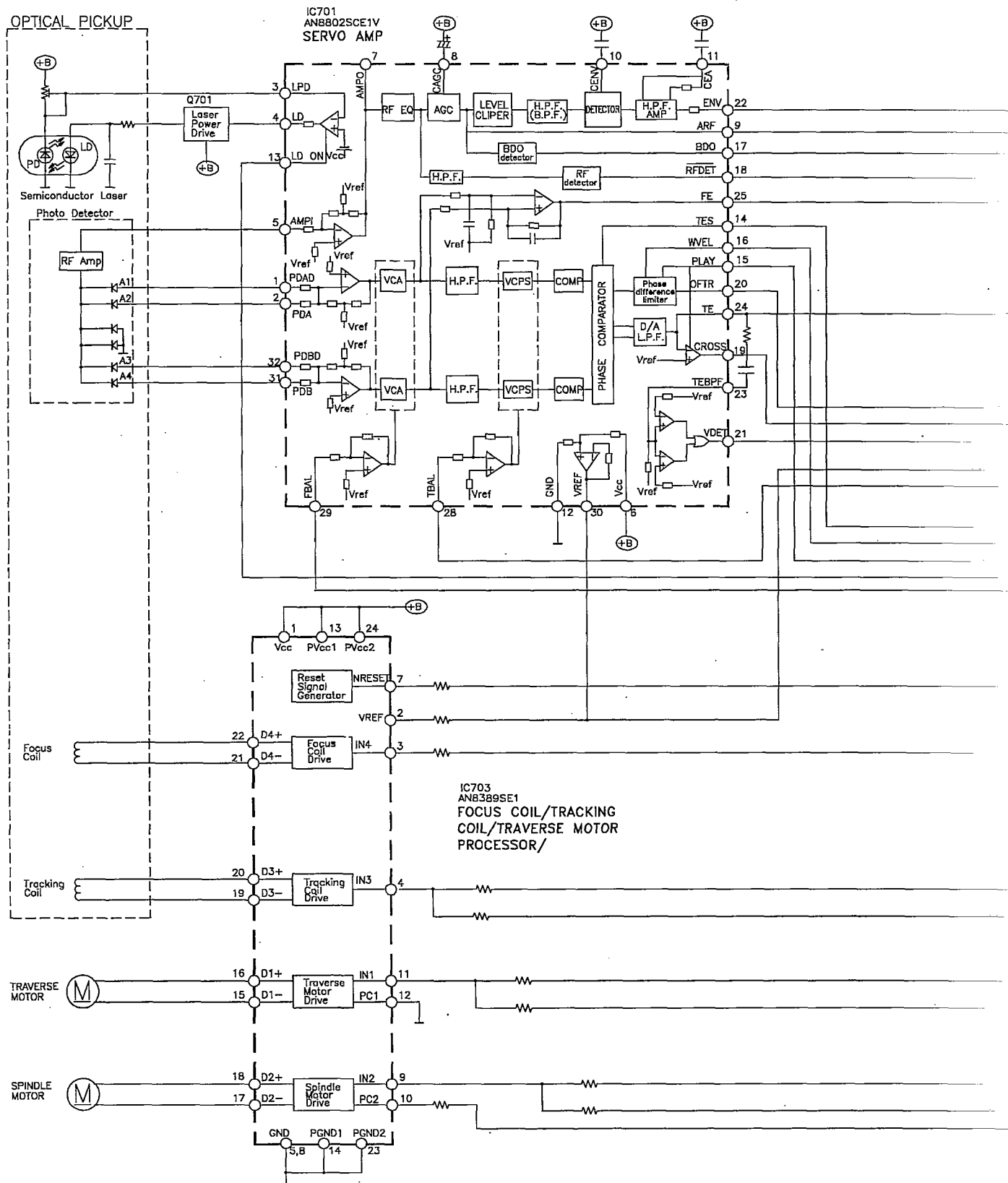
Pin No.	Mark	I/O	Function
			"L" : 16.9344MHz "H" : 33.8688MHz
78	PSEL	I	Test input (normally "L") (Not used, open)
79	MSEL	I	Output mode switching of SUBQ terminal ("H" : Q code buffer mode)
80	SSEL	I	Output frequency switching for SMCK terminal "H" : SMCK=8.4672MHz "L" : MCK=4.2336MHz (Not used, open)

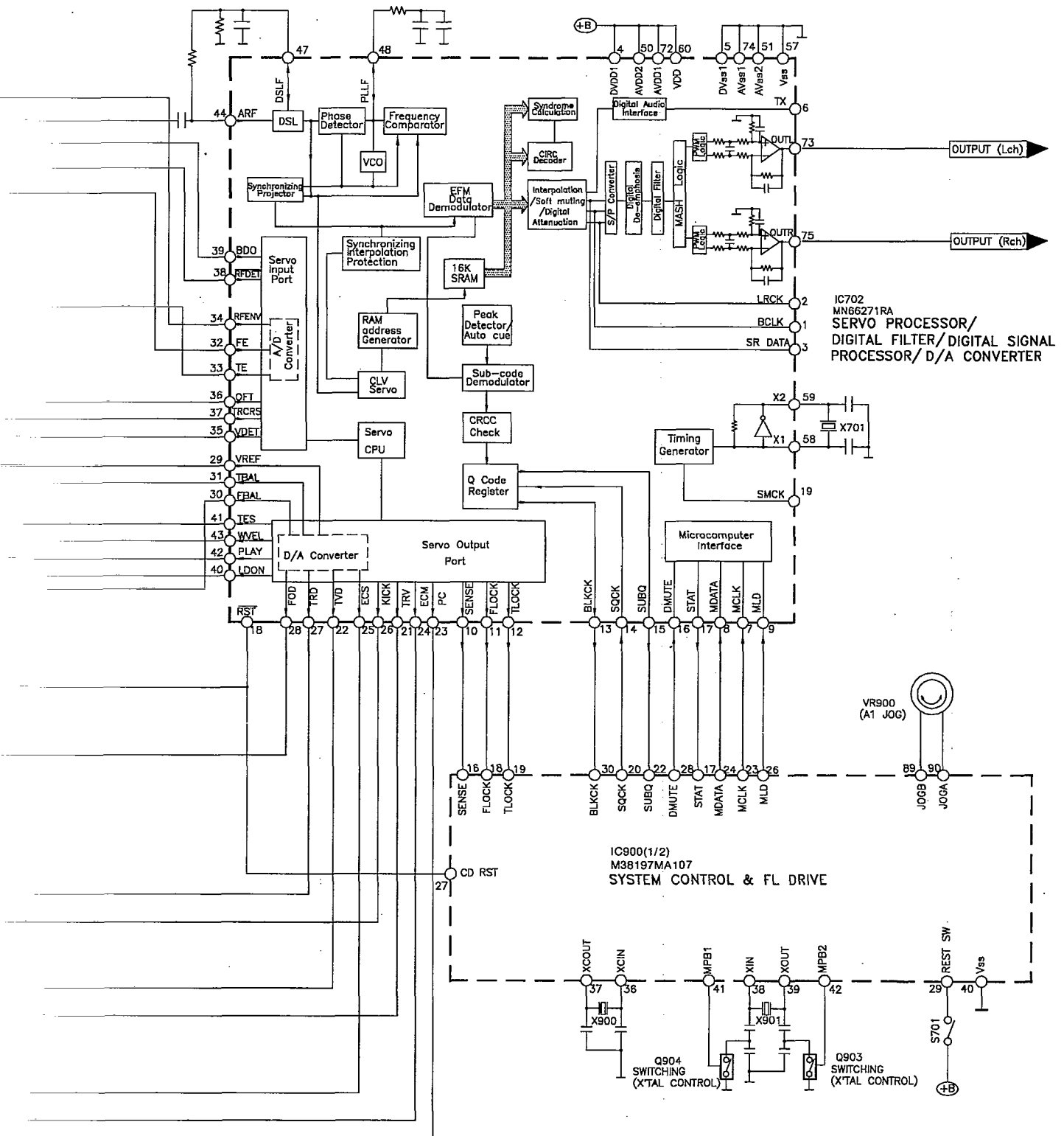
• IC900 (M38197MA107) System Microprocessor

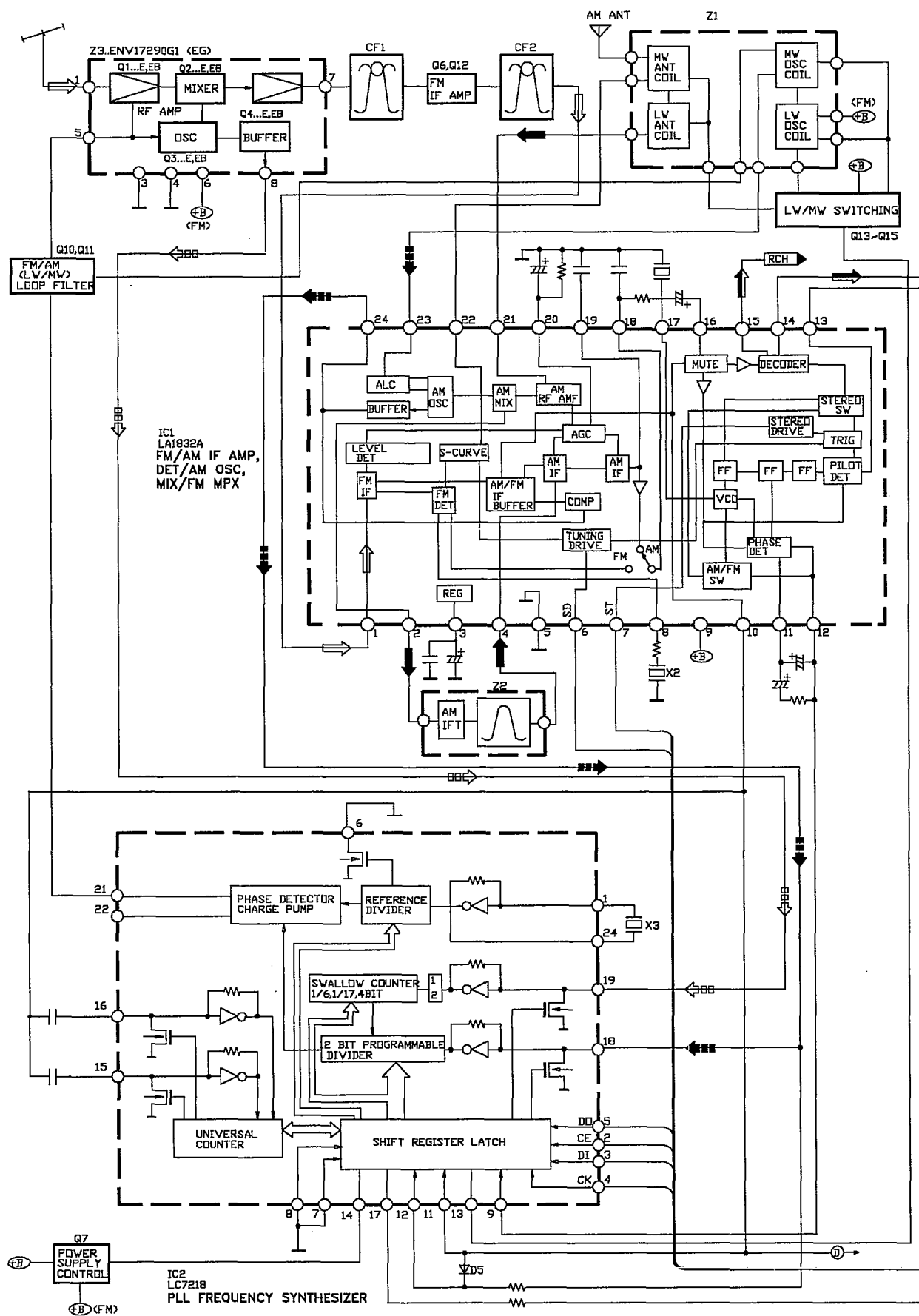
Pin No.	Mark	I/O	Function
1	DECK3	I	Recording inhibit detection
2	DECK2	I	Cassette hole/mode/half detection (Deck 1).
3	DECK1	I	Cassette hole/mode/half detection (Deck 2).
4	CRT	—	CR Timer detection.
5~8	KEY4 ~ KEY1	I	Key switch detection.
9	STEREO	I	Stereo detection.
10	DA	O	Electric volume control outputsignal.
11	SD	I	Tuner signal receiving detection.
12	DO	I	PLL synthesizer control signal input.
13	PLLCE	O	PLL tuner strobe signal output.
14	PLLDI	O	PLL tuner setting data output.
15	PLLCK	O	PLL tuner setting clock output.
16	SENSE	I	CD sense signal input.
17	STATUS	I	STATUS signal input.
18	FLOCK	I	Focus servo on signal input.
19	TLOCK	I	Focus servo on signal input.
20	SQCK	O	Subcode Q clock for resistor output.
21	NC	—	No connection.
22	SUBQ	I	Subcode Q loading signal input.
23	MCLK	O	Microprocessor command clock output.
24	MDATA	O	Microprocessor command data output.
25	CDG	—	No connection.
26	MLD	O	Microprocessor command loading signal output.
27	CDRST	I	Reset for CD player input.
28	DMUTE	O	Muting control signal output.
29	RESISW	I	Rest detection input.
30	BLKCK	I	Subcode clock input.
31	RMT	I	Remote contrl signal input.
32	DCDET	I	DC detection.
33	P.CONT	O	Power control signal input.
34	HALT	I	Power down detection input.
35	RESET	I	Reset input.
36	XC IN	O	Crystal oscillator output.
37	XC OUT	I	
38	XIN	I	Clock frequency signal oscillator in (6 MHz).

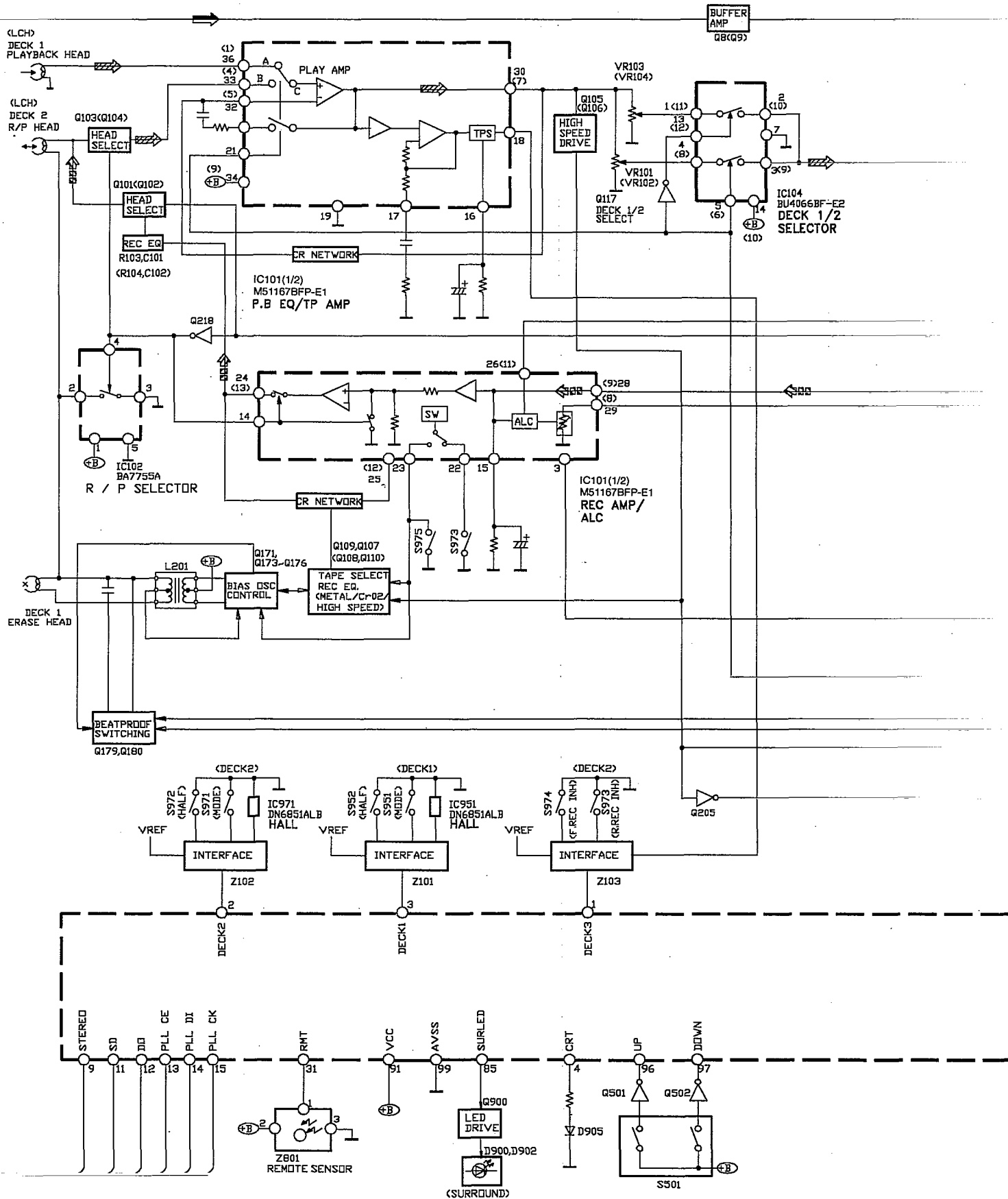
Pin No.	Mark	I/O	Function
39	XOUT	O	Clock frequency signal oscillator out (6 MHz).
40	VSS	—	GND
41	MBP1	O	Crystal control output.
42	MBP2	O	Crystal control output.
43	CDGM	O	CD graphic muting.
44	CDGR	O	CD graphic reset.
45	SLA	O	Data writing trigger out.
46	SDA	O	Serial data out.
47	SCK	O	Serial data carrier clock out.
48	MKDA	O	Cassette deck control data out.
49	MACK	O	Cassette deck control clock signal output.
50	AFDA	O	Audio control data output.
51	AFCK	O	Audio control clock signal output.
52~64	DIG13~DIG1	O	FL digit signal output.
65~80	SEG1~SEG16	O	FL segment signal out.
81~83	R3~R1	—	not use.
84	MIC	I	Mic input detection out.
85	SURLED	O	LED drive to surround.
86	SOL	O	Solenoid drive signal out.
87	FWD	O	Motor forward control.
88	REV	O	Motor reverse control.
89	JOGB	I	JOG dial signal input B.
90	JOGA	I	JOG dial signal input A.
91	VCC	I	Power input.
92	PSIN	I	Photo sensor signal input. (Rotary position detection)
93	PHO	I	Photo sensor signal input. (Speed detection)
94	FOPN	I	Tray fully open detection signal input.
95	HOPN	I	Tray half open detection signal input.
96	UP	I	Traverse up detection input.
97	DOWN	O	Traverse down detection input.
98	VEE	I	Power input.
99	VSS	—	GND
100	VREF	I	Reference input.

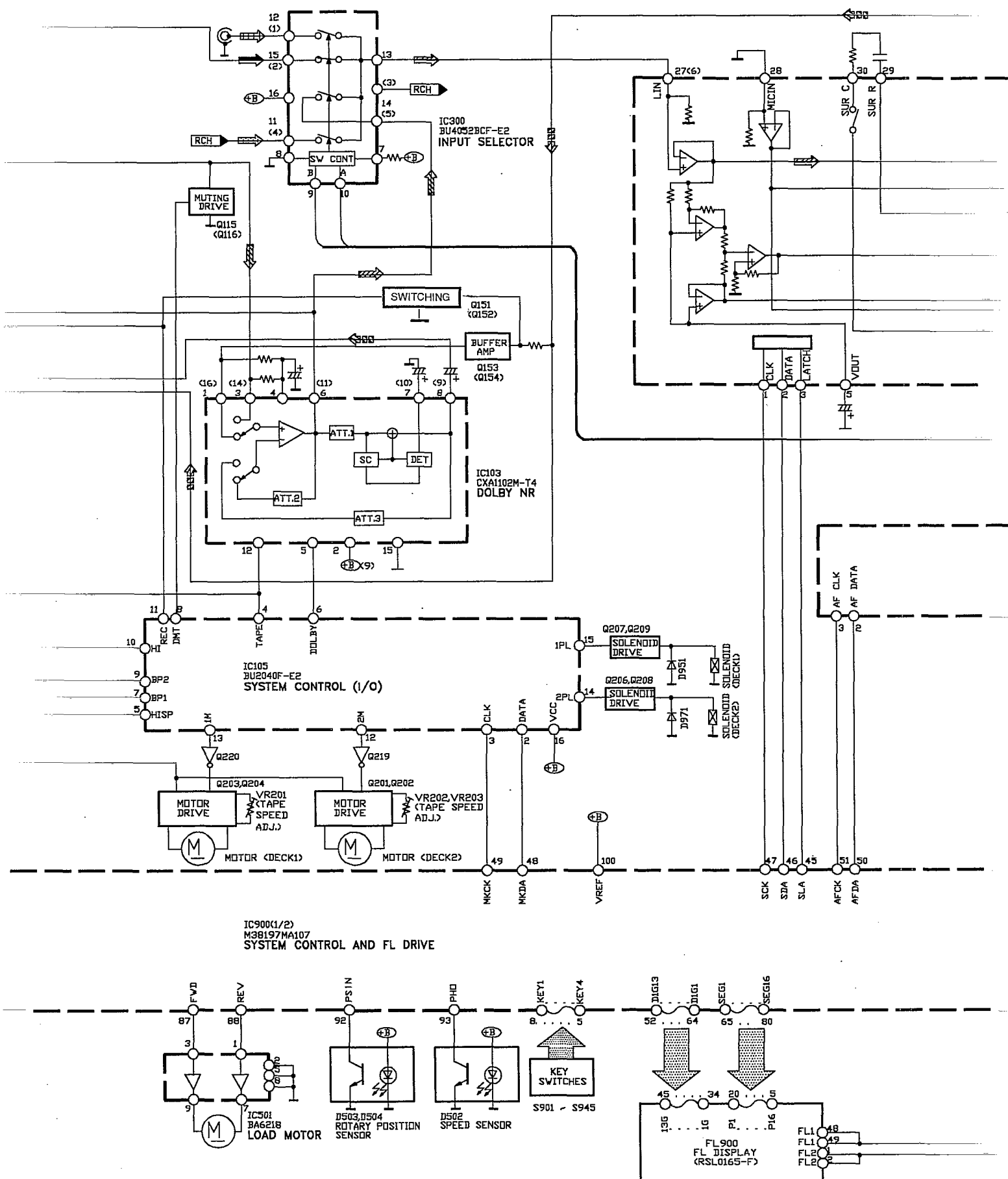
Block Diagram

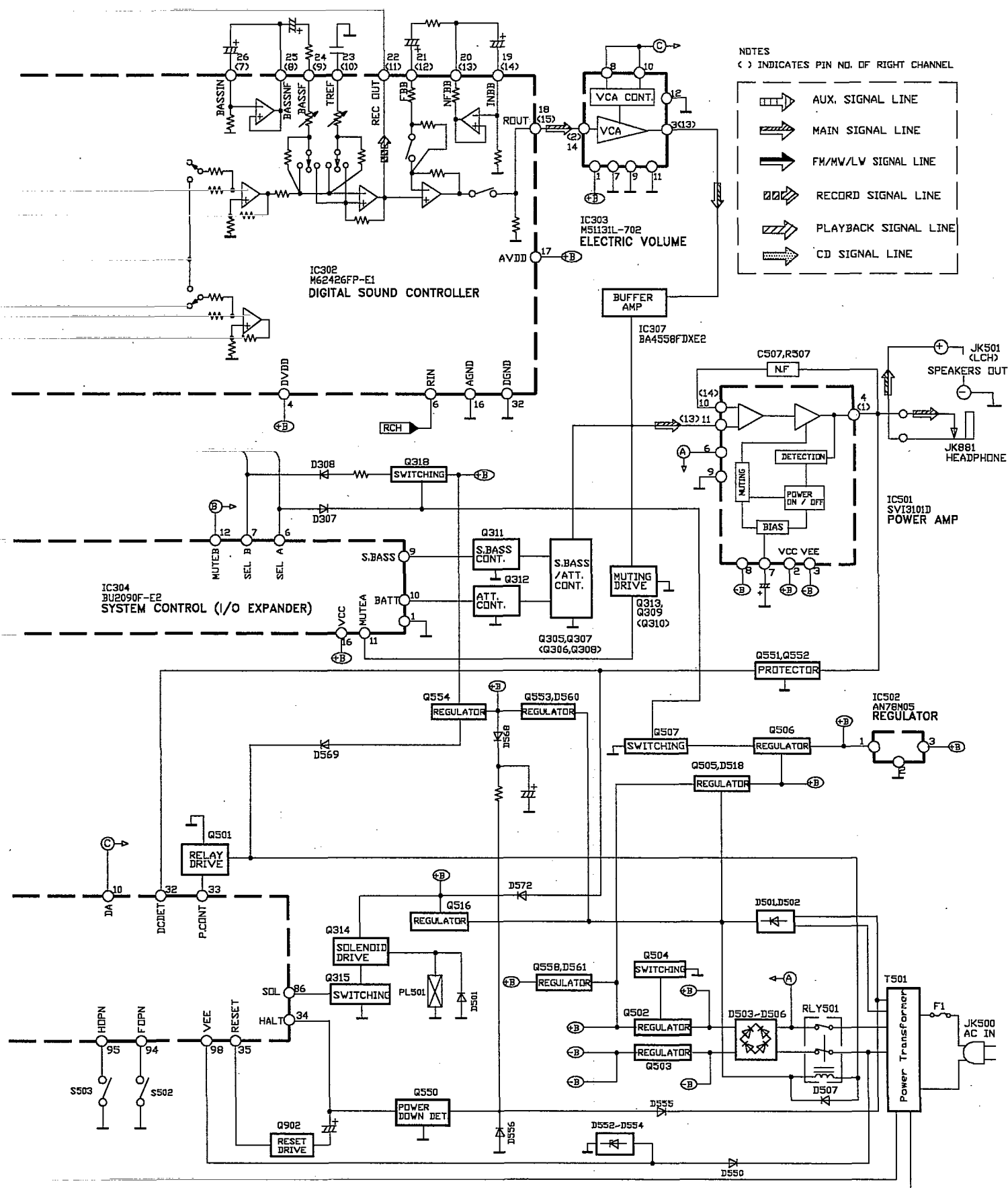












F

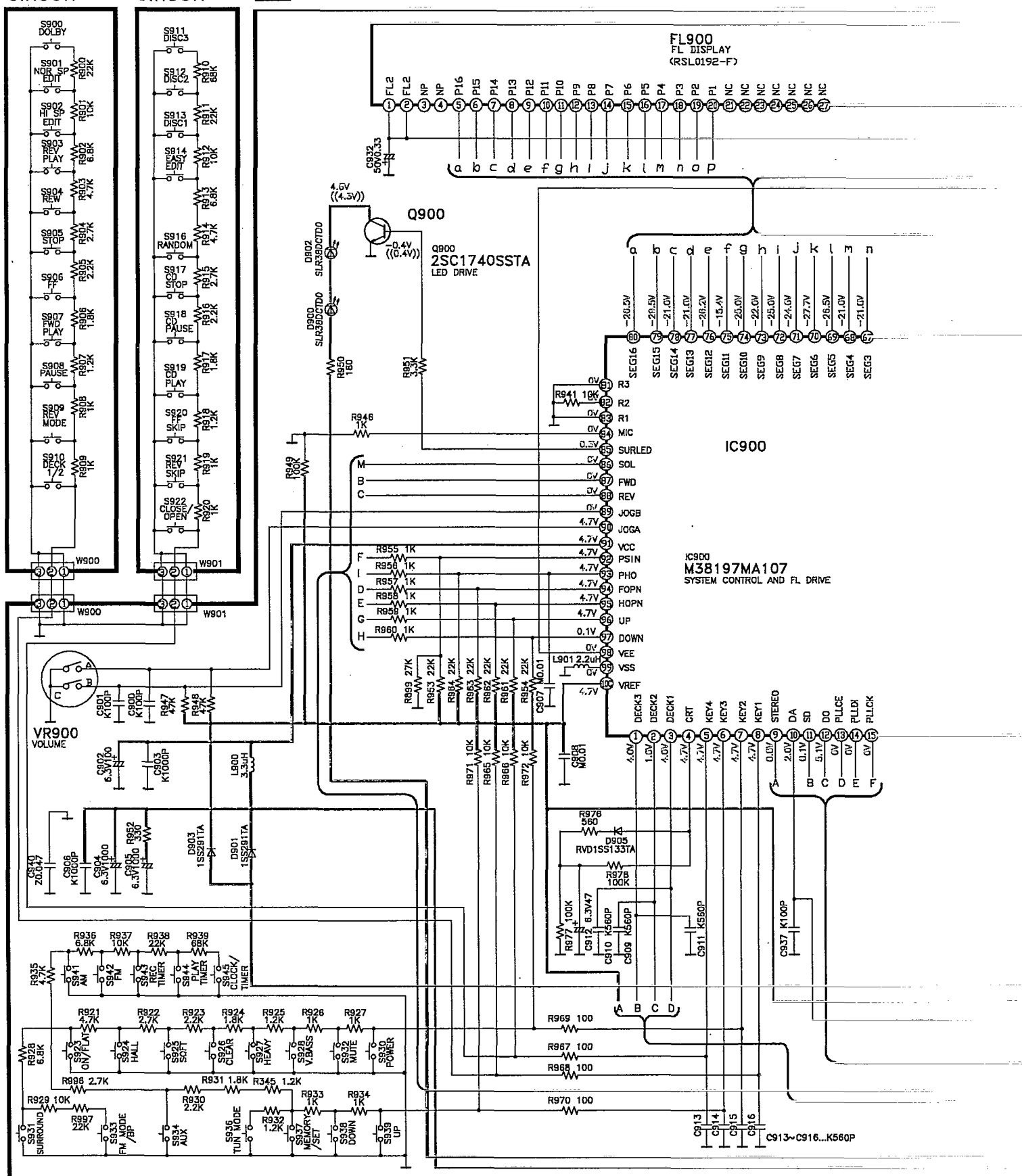
OPERATION (1) CIRCUIT

E

OPERATION (2) CIRCUIT

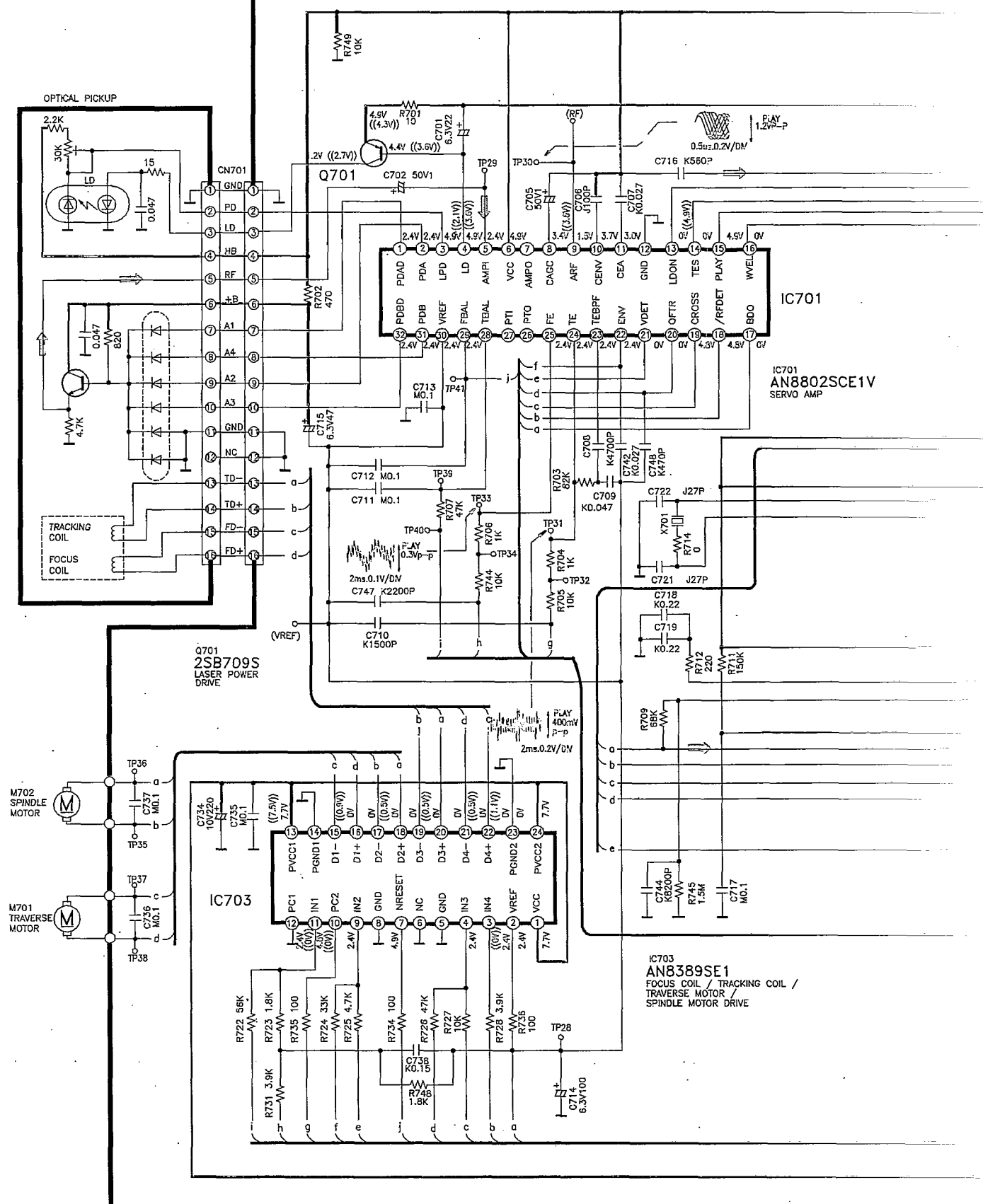
D

PANEL CIRCUIT



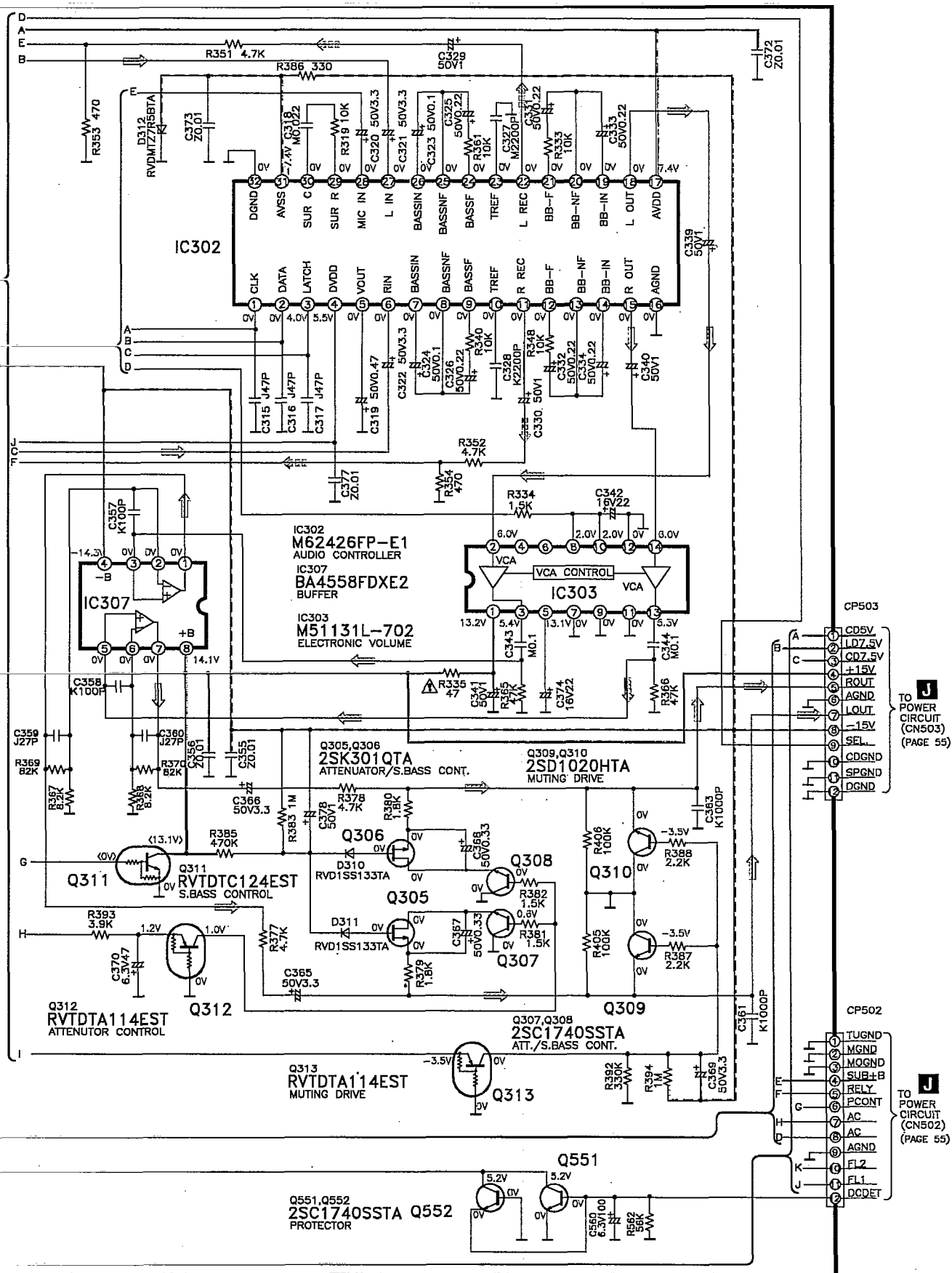


A SERVO CIRCUIT

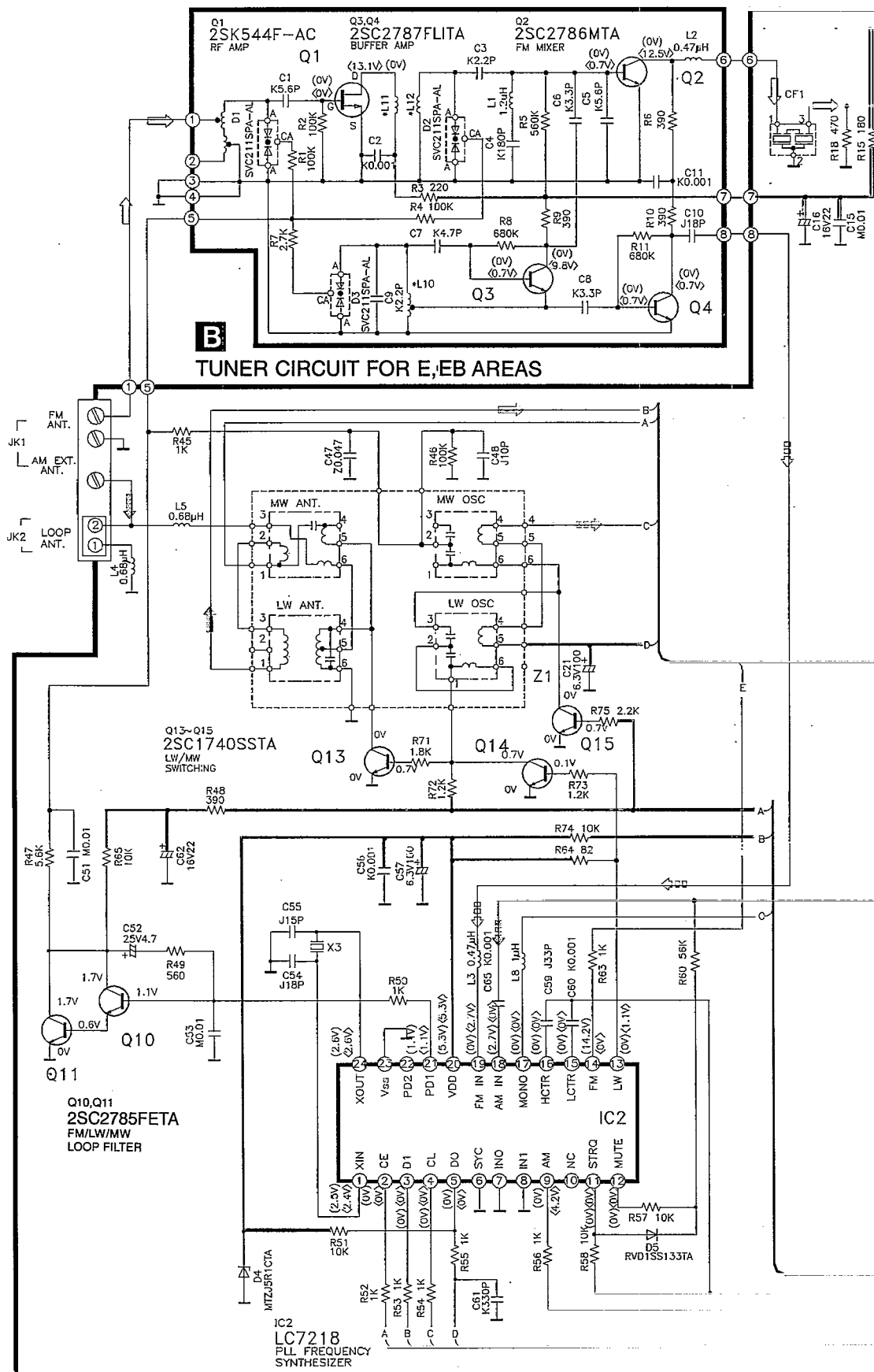


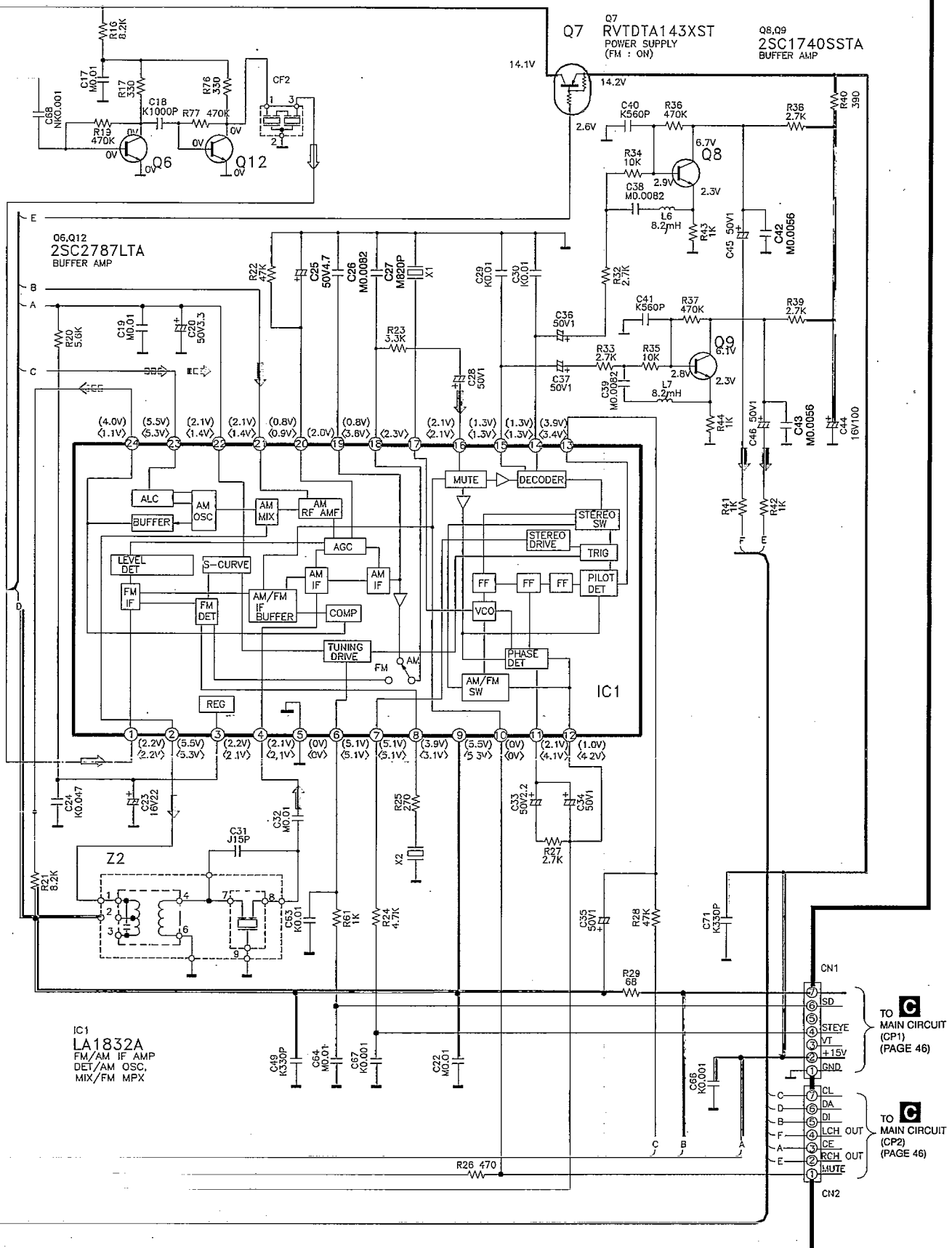


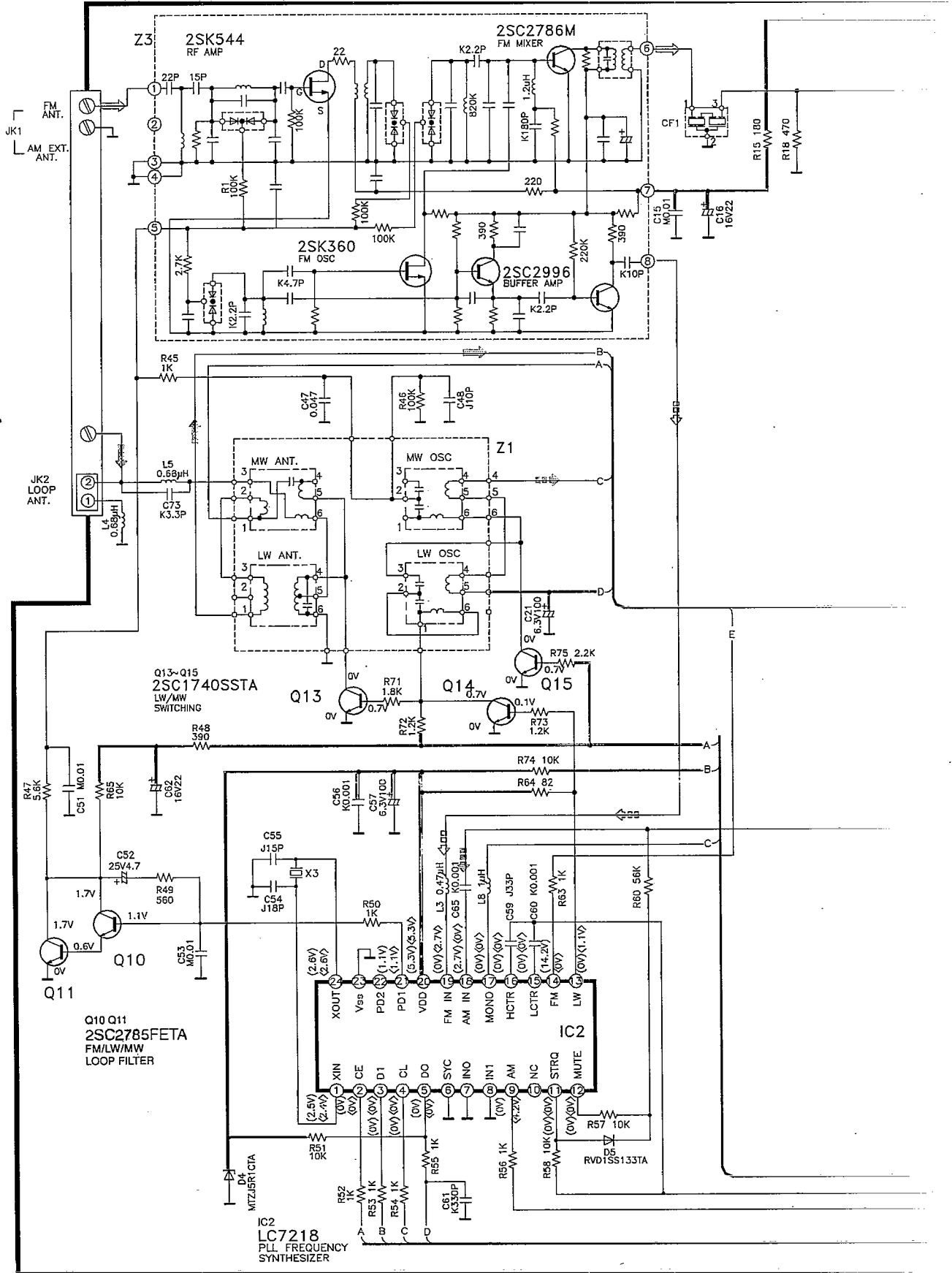


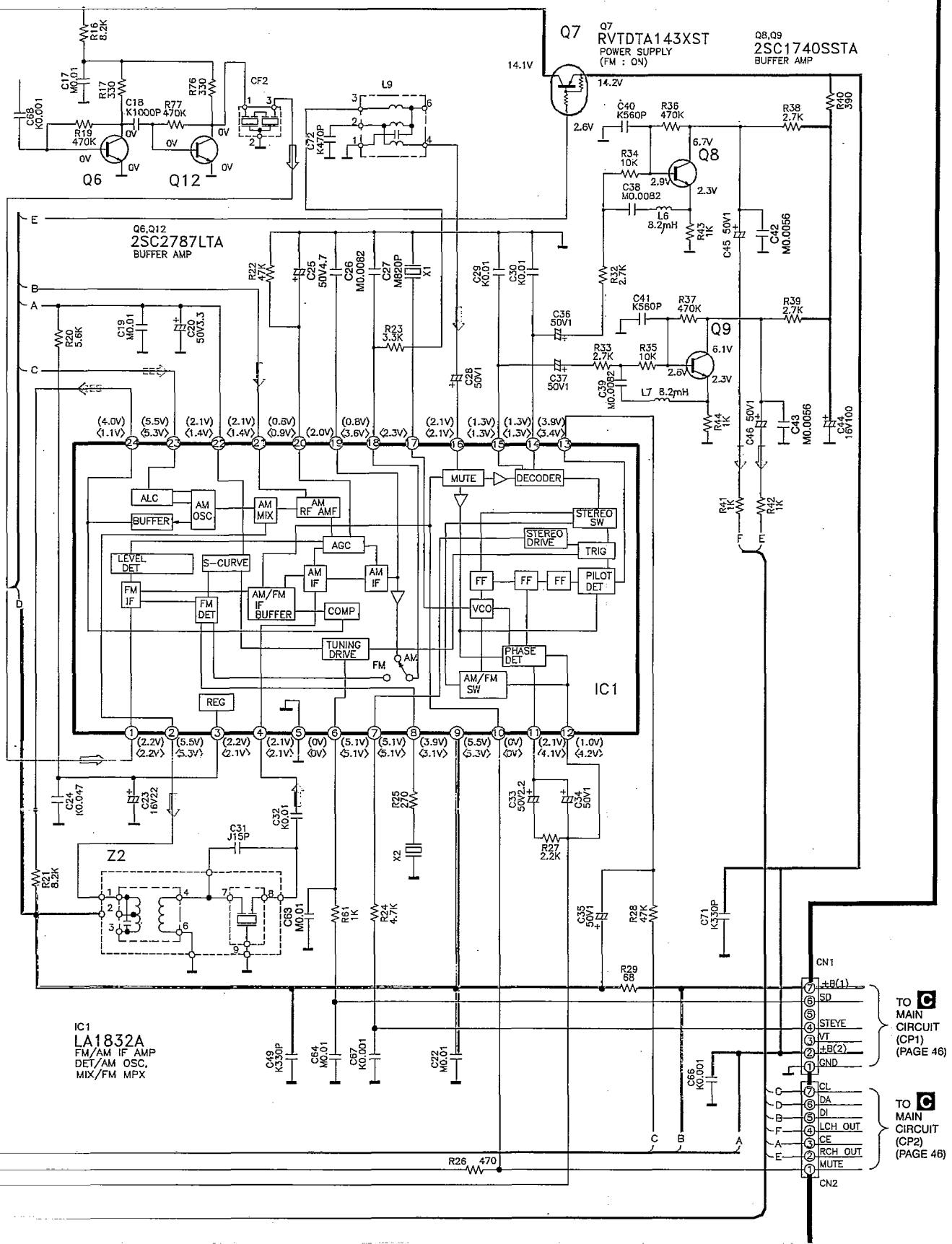


P TUNER PACK CIRCUIT FOR E,EB AREAS

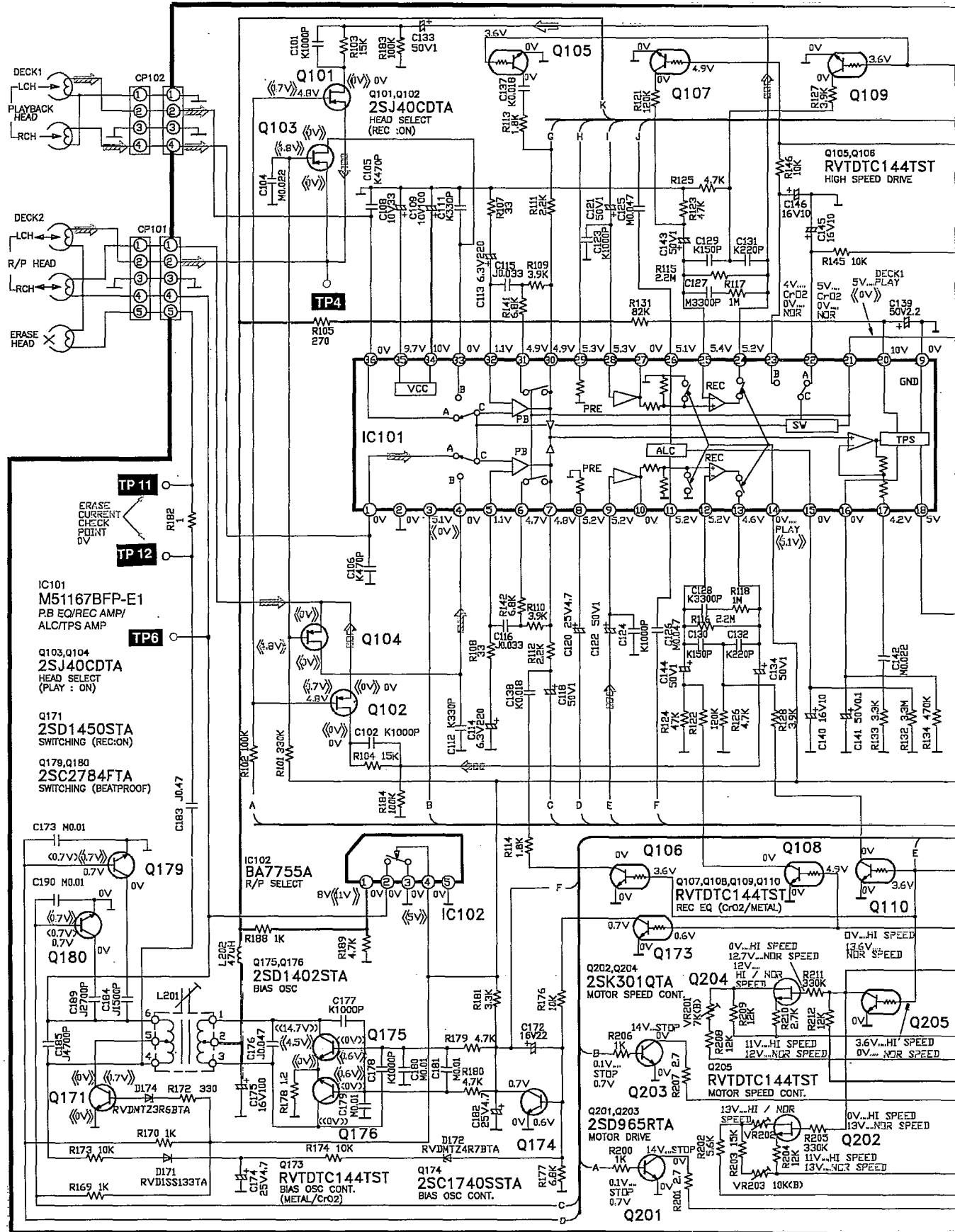


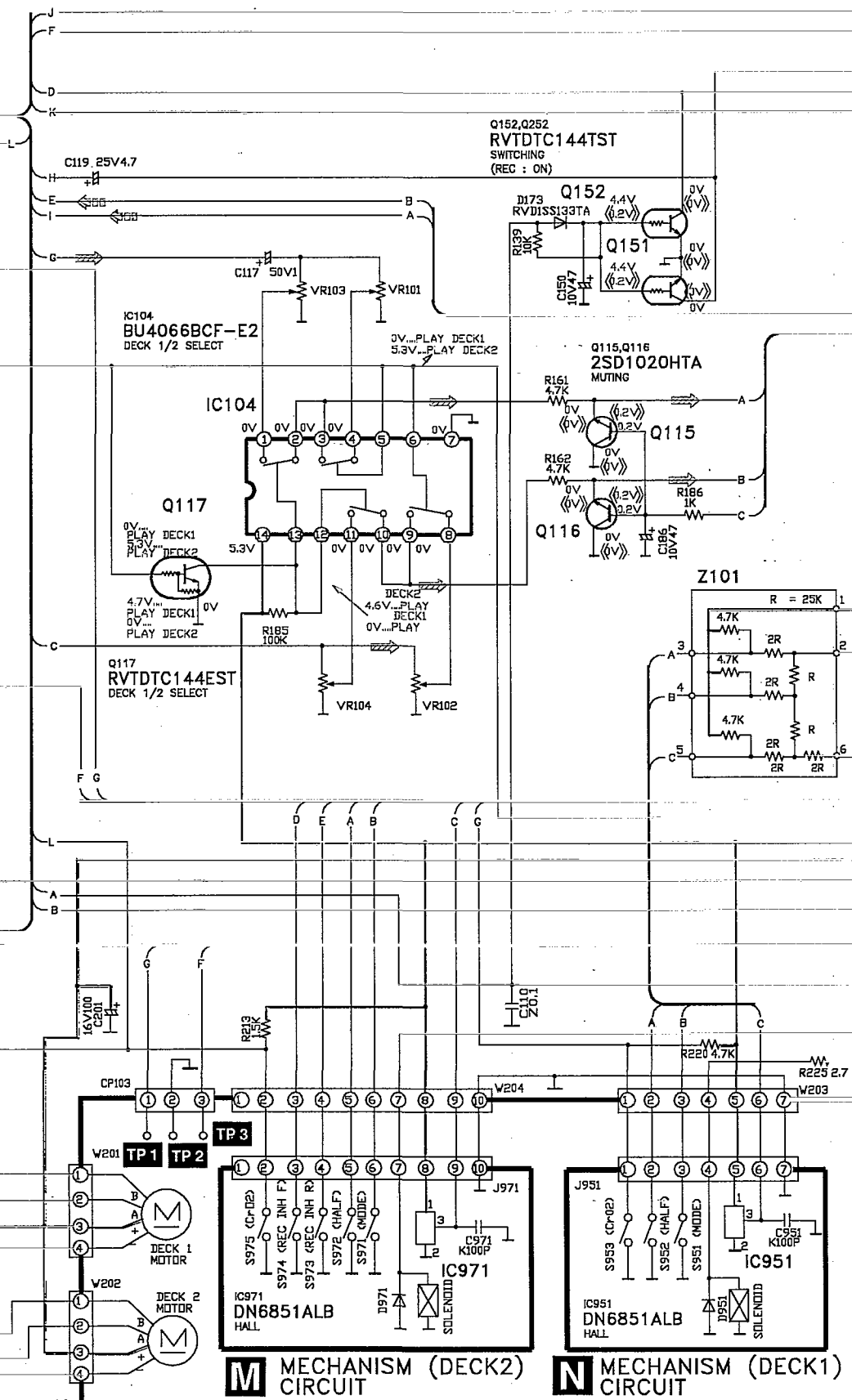


B TUNER CIRCUIT FOR EG AREA



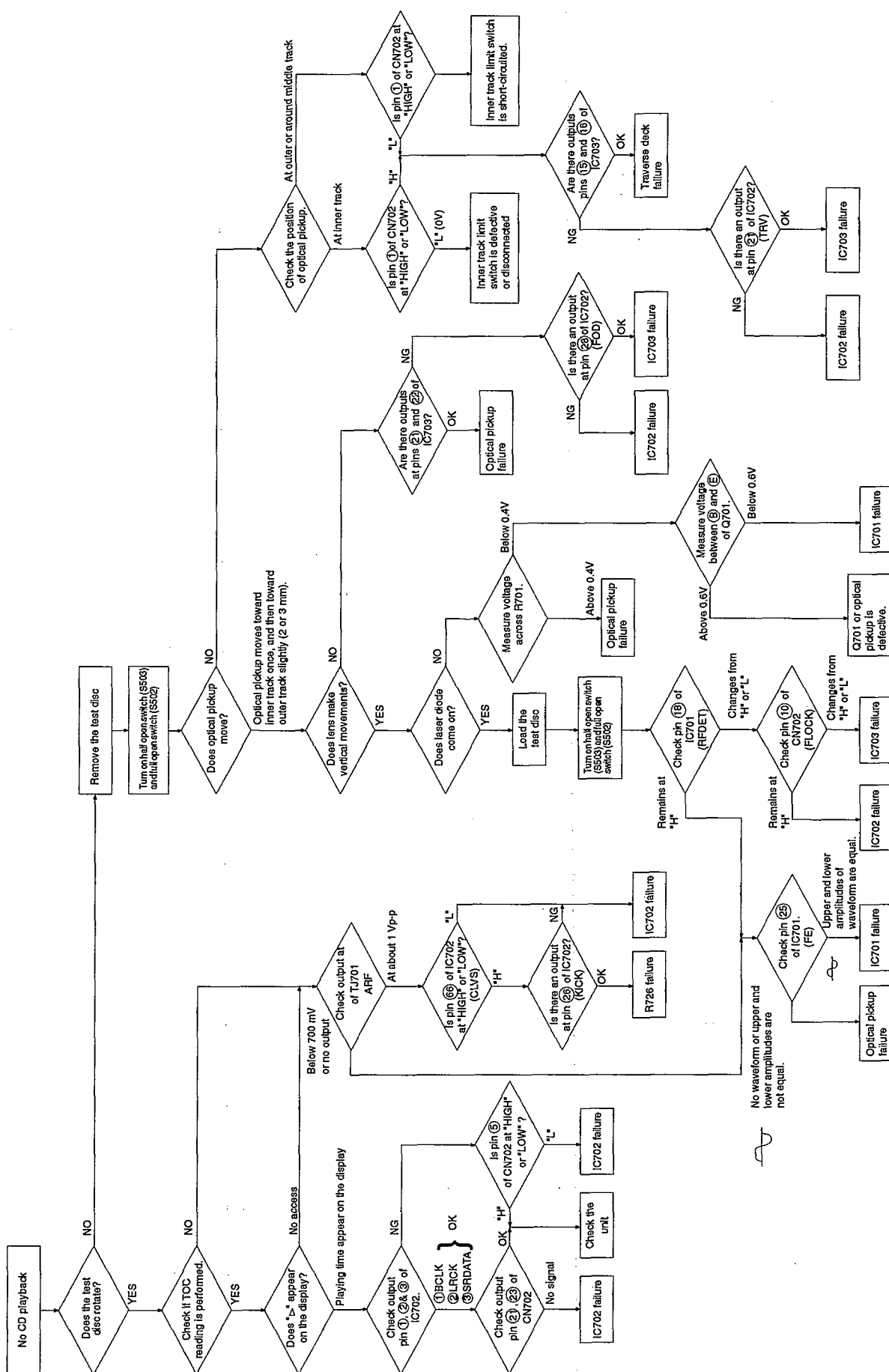
O DECK CIRCUIT







■ Troubleshooting Guide



Mechanism Parts Location (RAA0372)

1

2

3

4

5

DECK 1(PLAYBACK)

A

B

C

Note:

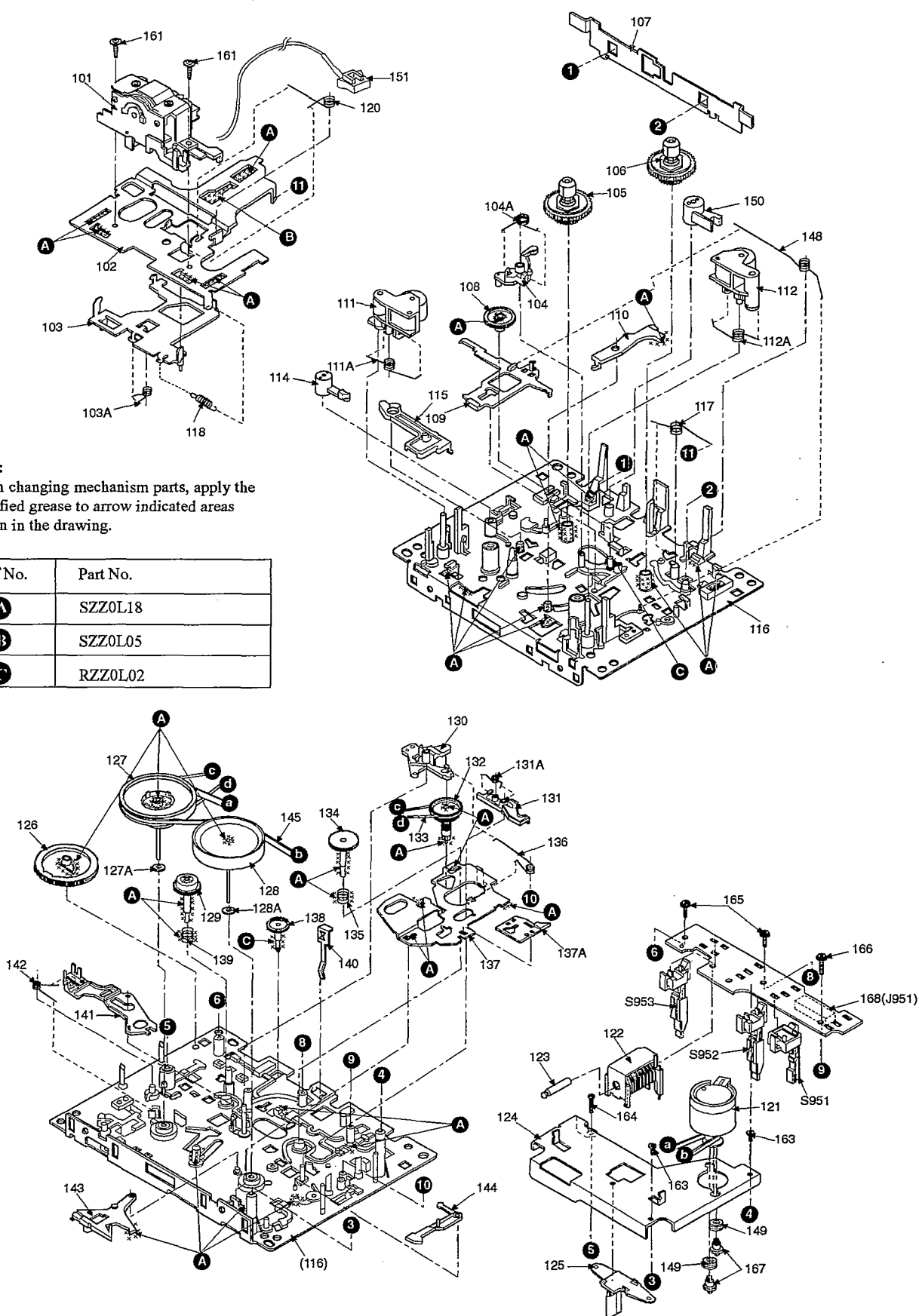
When changing mechanism parts, apply the specified grease to arrow indicated areas shown in the drawing.

RefNo.	Part No.
A	SZZ0L18
B	SZZ0L05
C	RZZ0L02

D

E

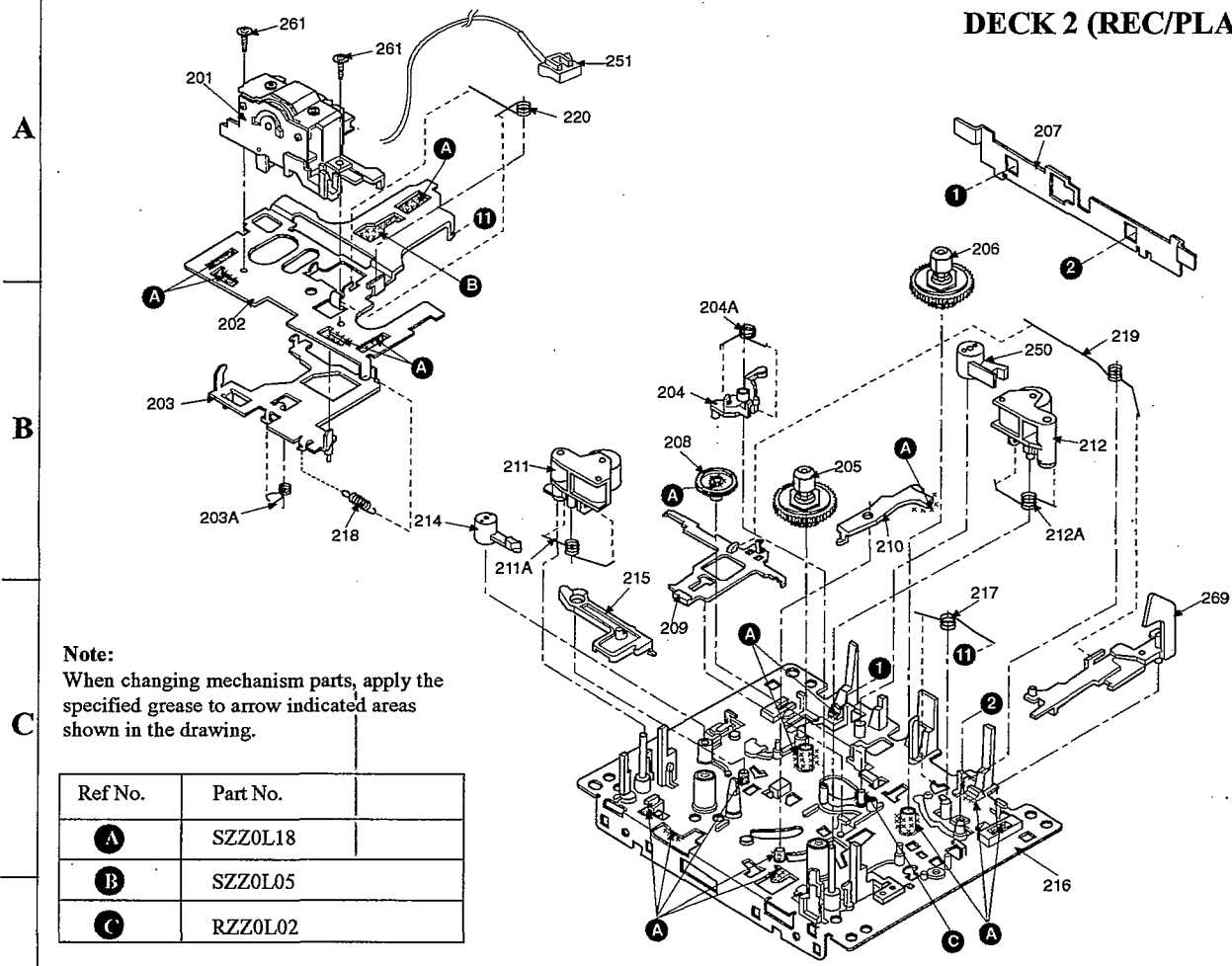
F



Mechanism Parts Location (RAA0373)

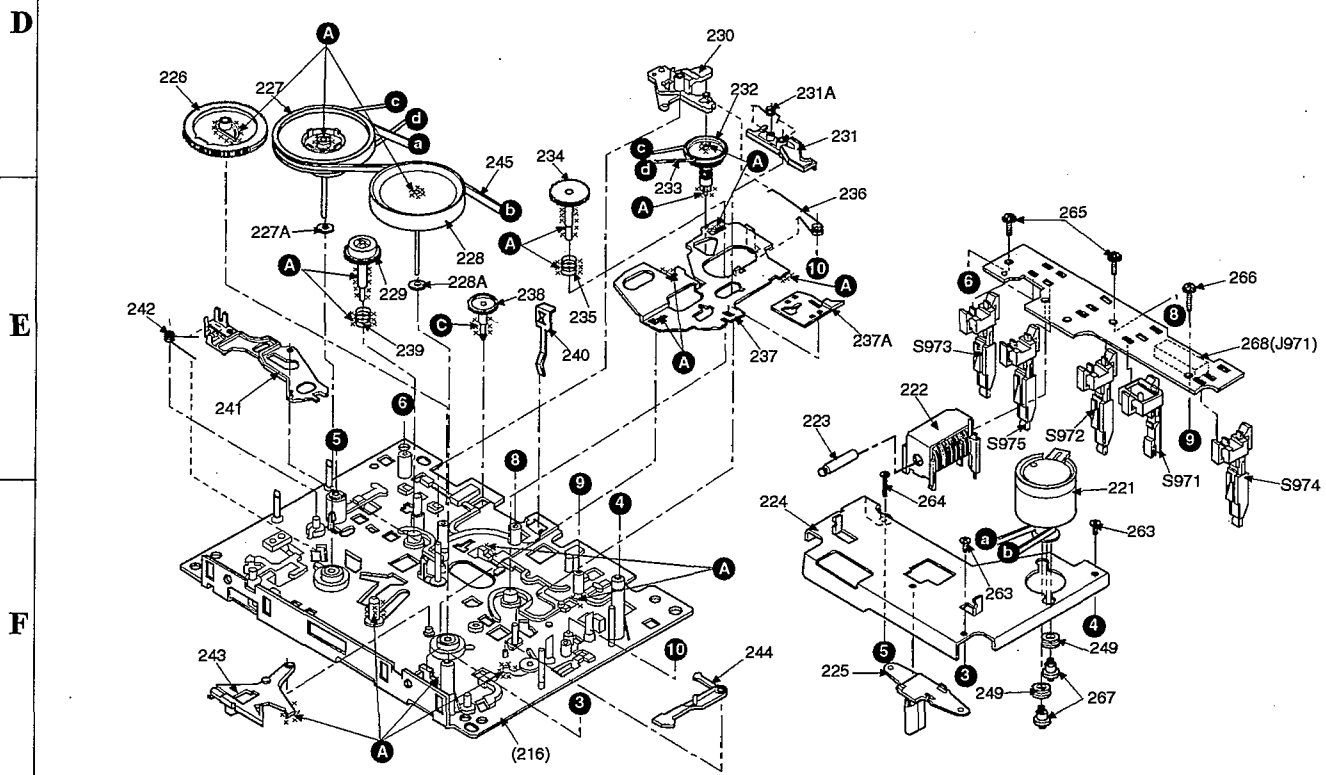
1 2 3 4 5

DECK 2 (REC/PLAYBACK)



Note:
When changing mechanism parts, apply the specified grease to arrow indicated areas shown in the drawing.

Ref No.	Part No.
A	SZZ0L18
B	SZZ0L05
C	RZZ0L02



Mechanism Parts List

[M] marks in Remarks column indicates parts that are supplied by MESA.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK		137A	RUB512ZB	ROD	
		<DECK 1>		138	RDG5773ZB	GEAR	
101	RXQ0383	HEAD BLOCK ASS'Y		139	RUQ112ZA	SPRING	
102	RUA793ZF	CHASSIS		140	RUS609ZC	SPRING	
103	RZLAR300A	LEVER ASS'Y		141	RUB514ZC	LEVER	
103A	RUW143ZA	SPRING		142	RUW147ZA	SPRING	
104	1UB0089Z	ARM		143	RUB515ZA	LEVER	
104A	RUW148ZA	SPRING		144	RUB509ZA	LEVER	
105	1DM0018ZB	REEL TABLE ASS'Y		145	RDV108ZA	BELT	
106	1DM0017ZB	REEL TABLE ASS'Y		148	RUW144ZA	SPRING	
107	RML0069-1	LEVER		149	RMG0102-1	RUBBER	
108	RDG5772ZC	GEAR		150	RNL180ZB	LEVER	
109	RUB508ZB	LEVER		151	REXX0107	P HEAD WIRE	[M]
110	RUB506ZB	LEVER		161	XTW2+6L	SCREW	
111	1UB0088ZB	PINCH ROLLER		163	XTN26+7J	SCREW	
111A	RUW141ZA	SPRING		164	RHE5203ZA	SCREW	
112	1UB0087ZB	PINCH ROLLER		165	XTW2+8S	SCREW	
112A	RUW140ZB	SPRING		166	XYC2+JF16	SCREW	
114	RNL1ZD	ARM		167	RHD26002	SCREW	
115	RUB503ZD	LEVER		168	RJS7T7ZA	CONNECTOR (J951)	
116	RZUAR300A	CHASSIS ASS'Y				<DECK 2>	
117	RUW142ZA	SPRING		201	RXQ0384	HEAD BLOCK ASS'Y	
118	RUD105ZA	SPRING		202	RUA793ZF	CHASSIS	
120	RUW139ZA	SPRING		203	RZLAR300A	LEVER ASS'Y	
121	RFM133ZA	MOTOR ASS'Y		203A	RUW143ZA	SPRING	
122	1UE0015ZB	PLUNGER		204	1UB0089Z	ARM	
123	RUB428ZE	SHAFT		204A	RUW148ZA	SPRING	
124	RUL1030YA	PLATE		205	1DM0018ZB	REEL TABLE ASS'Y	
125	RMD5014ZC	SPACER		206	1DM0017ZB	REEL TABLE ASS'Y	
126	RDG5927ZG	GEAR		207	RML0069-1	LEVER	
127	1DW0037ZB	FLYWHEEL ASS'Y		208	RDG5772ZC	GEAR	
127A	RNW139ZA	WASHER		209	RUB508ZB	LEVER	
128	1DW0038ZB	FLYWHEEL ASS'Y		210	RUB506ZB	LEVER	
128A	RNW138ZA	WASHER		211	1UB0088ZB	PINCH ROLLER	
129	1DG0006ZB	GEAR ASS'Y		211A	RUW141ZA	SPRING	
130	RUB513ZD	ARM		212	1UB0087ZB	PINCH ROLLER	
131	1UB0091Z	LEVER		212A	RUW140ZB	SPRING	
131A	RUW146ZA	SPRING		214	RNL1ZD	ARM	
132	1DR0011ZB	PULLEY ASS'Y		215	RUB503ZD	LEVER	
133	RDV90ZB	BELT		216	RZUAR300A	CHASSIS ASS'Y	
134	RDG5769ZA	GEAR		217	RUW142ZA	SPRING	
135	RUQ111ZB	SPRING		218	RUD105ZA	SPRING	
136	RUW145ZA	SPRING		219	RUW144ZA	SPRING	
137	1UB0090ZA	ROD		220	RUW139ZA	SPRING	

Ref. No.	Part No.	Part Name & Description	Remarks
221	RFM133ZA	MOTOR ASS'Y	
222	1UE0015ZB	PLUNGER	
223	RUB428ZE	SHAFT	
224	RUL1030YA	PLATE	
225	RMD5014ZC	SPACER	
226	RDG5927ZG	GEAR	
227	1DW0037ZB	FLYWHEEL ASS'Y	
227A	RNW139ZA	WASHER	
228	1DW0038ZB	FLYWHEEL ASS'Y	
228A	RNW138ZA	WASHER	
229	1DG0006ZB	GEAR ASS'Y	
230	RUB513ZD	LEVER	
231	1UB0091Z	LEVER	
231A	RUW146ZA	SPRING	
232	1DR0011ZB	PULLEY ASS'Y	
233	RDV90ZB	BELT	
234	RDG5769ZA	GEAR	
235	RUQ111ZB	SPRING	
236	RUW145ZA	SPRING	
237	1UB0090ZA	ROD	

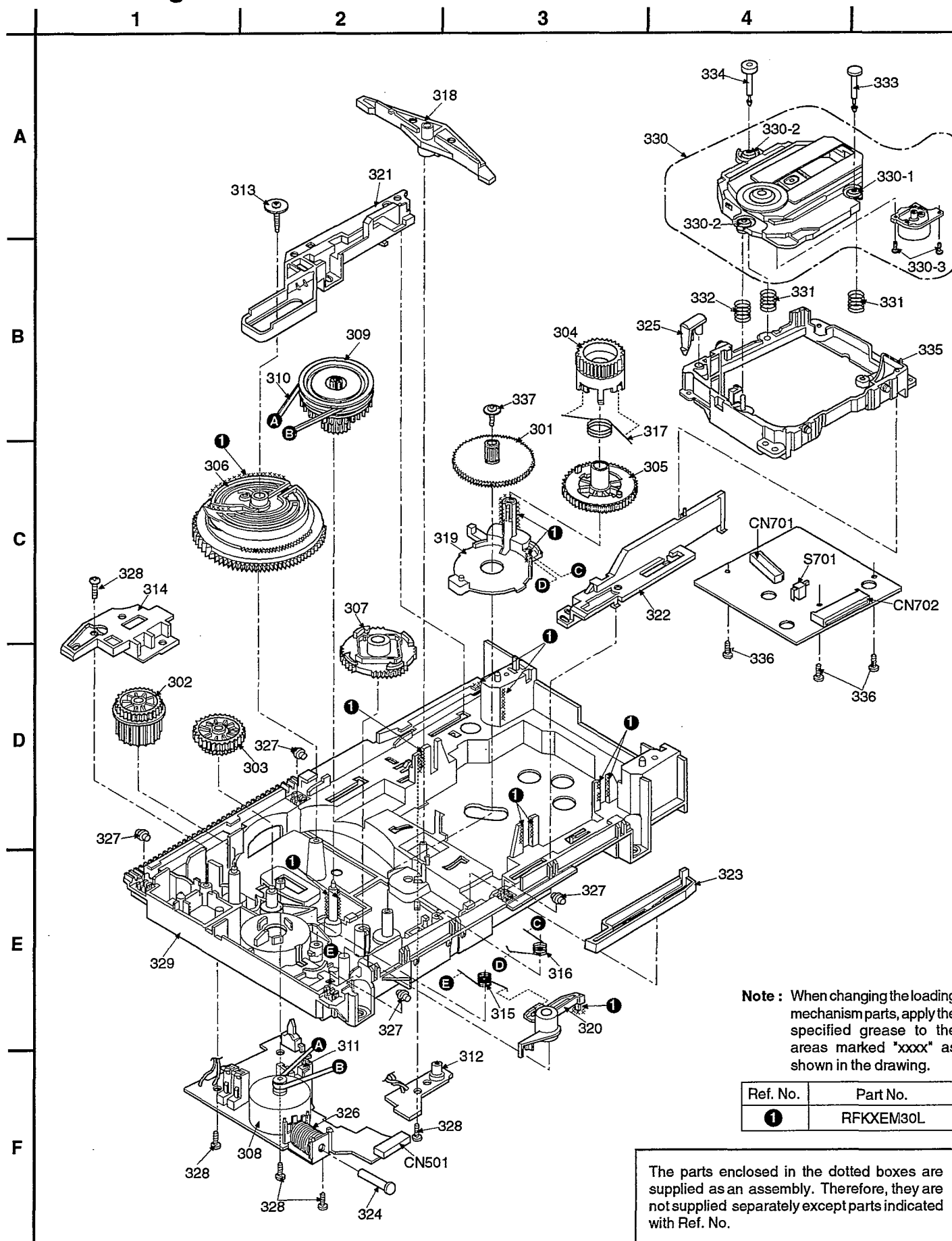
Ref. No.	Part No.	Part Name & Description	Remarks
237A	RUB512ZB	ROD	
238	RDG5773ZA	GEAR	
239	RUQ112ZA	SPRING	
240	RUS609ZC	SPRING	
241	RUB514ZC	LEVER	
242	RUW147ZA	SPRING	
243	RUB515ZA	LEVER	
244	RUB509ZA	LEVER	
245	RDV108ZA	BELT	
249	RMG0102-1	RUBBER	
250	RNL180ZB	LEVER	
251	REX0305	R/P HEAD WIRE	[M]
261	XTW2+6L	SCREW	
263	XTN26+7J	SCREW	
264	RHE5203ZA	SCREW	
265	XTW2+8S	SCREW	
266	XYC2+JF16	SCREW	
267	RHD26002	SCREW	
268	RJS10T7ZA	SOCKET (J971)	
269	RUB507ZD	EJECT ROD	

■ CD Loading Unit Parts List

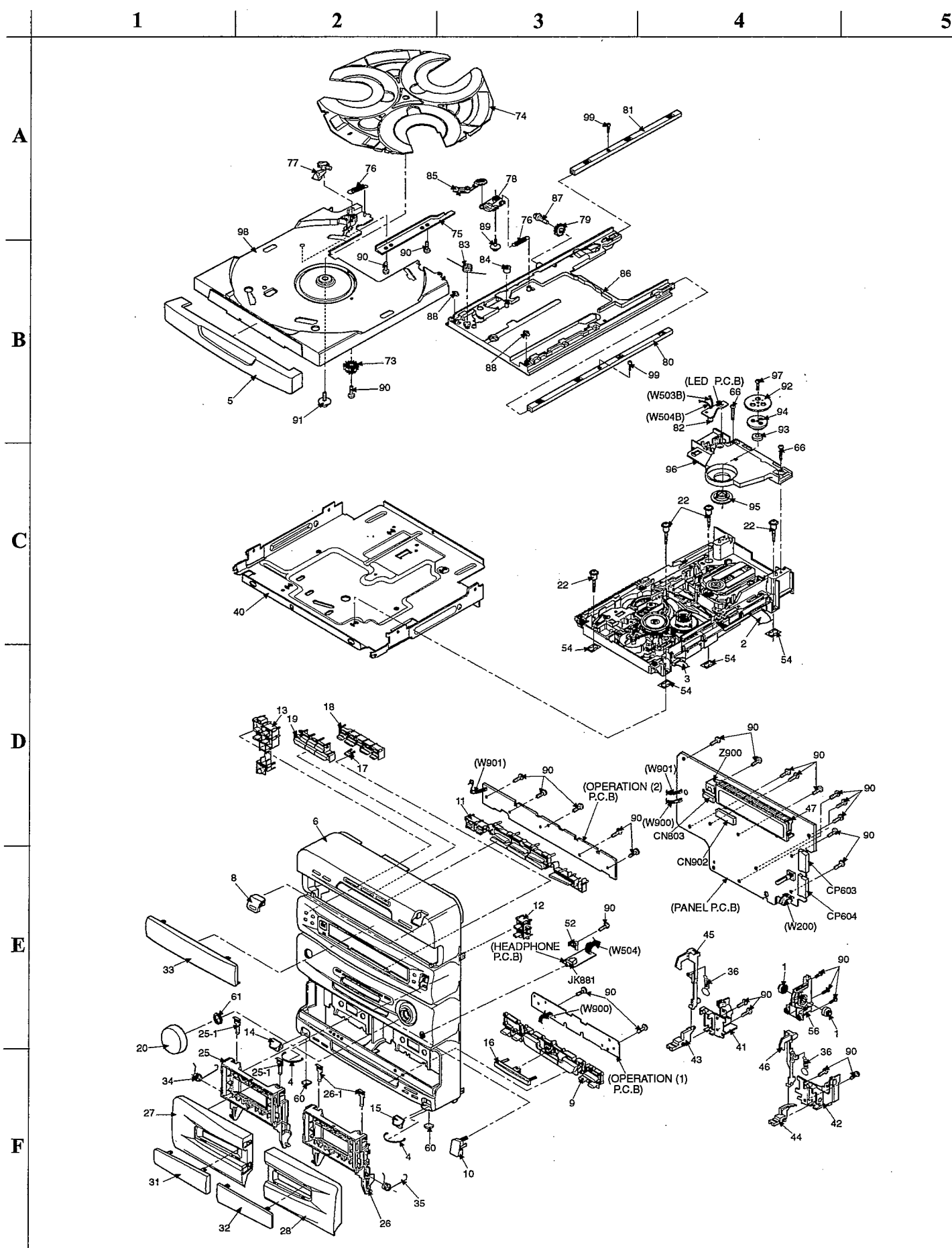
Ref. No.	Part No.	Part Name & Description	Remarks
		CD LOADING UNIT	
301	RDG0194	GEAR	
302	RDG0223	GEAR	
303	RDG0224	GEAR	
304	RDG0244	GEAR	
305	RDG0245	GEAR	
306	RDK0022	GEAR	
307	RDK0023	GEAR	
308	RFKPLCH555PK	MOTOR ASS'Y	
309	RDP0058	GEAR	
310	RDV0025	BELT	
311	RMN0204	SENSOR HOLDER	
312	RMN0222	LED HOLDER	
313	RHD30029	SCREW	
314	RMA0653	ANGLE	
315	RME0120	SPRING	
316	RME0121	SPRING	
317	RME0137	SPRING	
318	RML0177	LEVER	
319	RML0288	LEVER	
320	RML0289	LEVER	
321	RMM0097	SLIDE PLATE(1)	

Ref. No.	Part No.	Part Name & Description	Remarks
322	RMM0098	SLIDE PLATE(2)	
323	RMM0099	SLIDE PLATE(3)	
324	RMS0398	PLUNGER	
325	RMX0072	LEVER	
326	RSJ0003	SOLENOID(PL501)	
327	SDRD14	ROLLER	
328	XTB3+10JFZ	SCREW	
329	RFKJLCH555PB	MECH CHASSIS ASS'Y	
330	RAE0113Z	TRAVERSE UNIT	
330-1	SHGD112	FLOATING RUBBER(A)	
330-2	SHGD113-1	FLOATING RUBBER(B)	
330-3	XQS2+A35FZ	SCREW	
331	RME0109	FLOATING SPRING A	
332	RME0142	FLOATING SPRING B	
333	RMS0123-1	FIXED PIN A	
334	RMS0350	FIXED PIN B	
335	RMR0698-K	TRAVERSE CHASSIS	
336	XTV2+6G	SCREW	
337	RHD26014	SCREW	

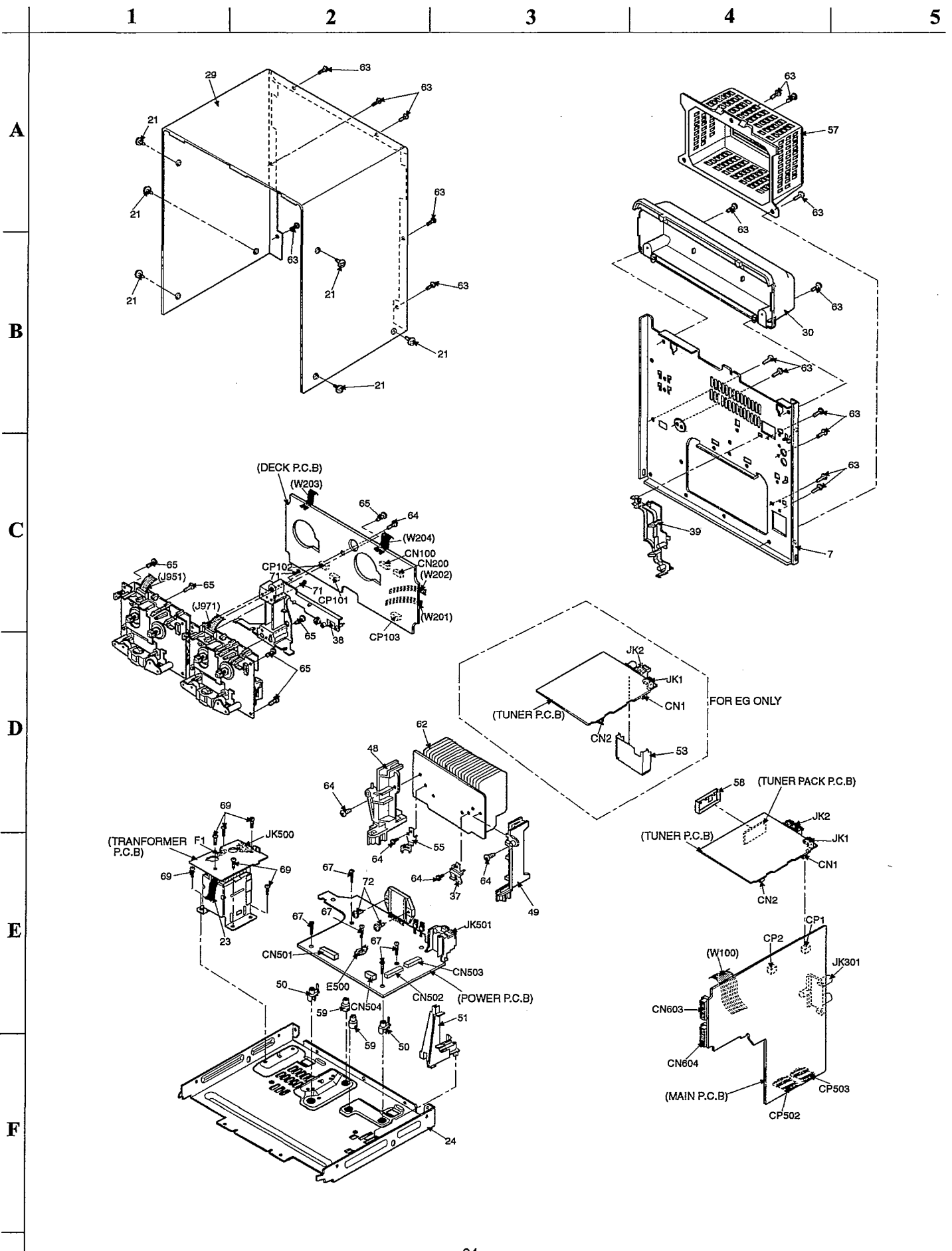
CD Loading Unit Parts Location



■ Cabinet Parts Location



Cabinet Parts Location



■ Replacement Parts List

Notes:

- Important safety notice:
Components identified by Δ 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 these components, be sure to use only manufacturer's specified parts shown in the parts list.
- The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area)
Parts without these indications can be used for all areas.
- [M] Indicates in the Remarks columns indicates parts supplied by MESA.
- Warning : This product uses a laser diode. Refer to caution statements on page 3.
ACHTUNG : • Die Lasereinheit nicht zerlegen.
• Die Lasereinheit darf nur gegen eine vom hersteller spezifizierte einheit ausgetauscht werden.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS		32	RKW0374-Q	CASSETTE WINDOW (R)	[M]
				33	RKW0375-Q	FL WINDOW	[M]
1	RDG0129	DAMPER GEAR	[M]	34	RMB0293	CASS. OPEN SPRING (L)	[M]
2	REE0550A	23P FFC	[M]	35	RMB0294	CASS. OPEN SPRING (R)	[M]
3	REE0615	14P FFC	[M]	36	RMB0295	EJECT SPRING	[M]
4	RGK0608-N	LEG ORNAMENT	[M]	37	RMCO158-S	TRANSISTOR HOLDER	[M]
5	RFKNACH72E-K	CD LID	[M]	38	RMK0059-1E	CASSETTE PCB SUPPORT	[M]
6	RGP0446B-K1	FRONT PANEL	[M]	39	RMR0868-X	JACK SUPPORT	[M] (E, EB)
7	RGR0206B-B	REAR PANEL	[M] (E)	39	RMR0868A-X	JACK SUPPORT	[M] (EG)
7	RGR0206B-C	REAR PABEL	[M] (EG)	40	RMK0275	CHANGER CHASSIS	[M]
7	RGR0206B-D	REAR PANEL	[M] (EB)	41	RML0301	EJECT LEVER STAND (L)	[M]
8	RGU1181-K	CD OPEN/CLOSE BUTTON	[M]	42	RML0302	EJECT LEVER STAND (R)	[M]
9	RGU1182-S	CASSETTE BUTTON	[M]	43	RML0303	EJECT LEVER (L)	[M]
10	RGU1183-S	TUNER BUTTON	[M]	44	RML0304	EJECT LEVER (R)	[M]
11	RGU1184-S	CD BUTTON	[M]	45	RMM0102	EJECT ROD (L)	[M]
12	RGU1185-S	MEMORY BUTTON	[M]	46	RMM0103	EJECT ROD (R)	[M]
13	RGU1186-S	POWER TIMER BUTTON	[M]	47	RMN0305	FL HOLDER	[M]
14	RGU1187-K	EJECT KNOB (L)	[M]	48	RMR0653-K	HEAT SINK SUPPORT (L)	[M]
15	RGU1188-K	EJECT KNOB (R)	[M]	49	RMR0654-K	HEAT SINK SUPPORT (R)	[M]
16	RGU1189-S	FF/REW BUTTON	[M]	50	RMR0741-X	PCB SUPPORT (PIN)	[M]
17	RGU1190-Q	SURROUND BUTTON	[M]	51	RMR0821-X	MAIN PCB SUPPORT	[M]
18	RGU1191-K	SURROUND MODE BUTTON	[M]	52	RMR0823-X	HP JACK HOLDER	[M]
19	RGU1192A-S	SELECTOR BUTTON	[M]	53	RSC0403	EARTH PLATE	[M] (EG)
20	RGW0194-S	VOLUME KNOB	[M]	54	RMG0319-K	RUBBER CUSHION	
21	RHD30007	SCREW		55	RSC0362	HEAT SINK PLATE	[M]
22	RHD30043	SCREW		56	RMS0401	DAMPER GEAR HOLDER	[M]
23	REX0651	11P WIRE	[M]	57	RMV0085	HEAT SINK COVER	[M]
24	RFKJACH410GK	BOTTOM CHASSIS ASS'Y	[M]	58	RSC0027	SHIELD COVER	(E, EB)
25	RFKLACH455P3	CASS. HOLDER ASS'Y (L)	[M]	59	SHE187-4	PCB SUPPORT	
25-1	RUS757ZAA	CASS. HALF SPRING	[M]	60	SHS3276	LEG FELT	[M]
26	RFKLACH455P4	CASS. HOLDER ASS'Y (R)	[M]	61	XNS9D	NUT	
26-1	RUS757ZAA	CASS. HALF SPRING	[M]	62	RXX0102	HEAT SINK UNIT	[M]
27	RKF0418-K	CASSETTE LID (L)	[M]	63	XTBS3+8JFZ1	SCREW	
28	RKF0419-K	CASSETTE LID (R)	[M]	64	XTB3+12J	SCREW	
29	RKM0283AZ-K	CABINET	[M]	65	XTB3+12JFR	SCREW	
30	RKQ0176-K	CHANGER REAR COVER	[M]	66	XTB3+16JFZ	CLAMPER ASS'Y SCREW	
31	RKW0373-Q	CASSETTE WINDOW (L)	[M]	67	XTB3+20J	SCREW	
				69	XTB3+8J	SCREW	

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
71	XTV26+6F	SCREW		IC900	M38197MA107	IC, MICON	[M]
72	XTW3+15T	SCREW		IC951	DN6851ALB	IC, HALL	
73	RDG0228	GEAR		IC971	DN6851ALB	IC, HALL	
74	RGT0014	ROTARY TRAY					
75	RMA0681	ANGLE				TRANSISTORS	
76	RME0123	SPRING					
77	RML0312	LEVER		Q1	2SK544F-AC	TRANSISTOR	(E, EB)
78	RDG0225	GEAR		Q2	2SC2786MTA	TRANSISTOR	(E, EB)
79	RDG0227	GEAR		Q3	2SC2787FL1TA	TRANSISTOR	(E, EB)
80	RMA0654	ANGLE(A)		Q4	2SC2787FL1TA	TRANSISTOR	(E, EB)
81	RMA0655	ANGLE(B)		Q6	2SC2787LTA	TRANSISTOR	
82	RMN0222	LED HOLDER		Q7	RVTDTA143XST	TRANSISTOR	
83	RME0139	SPRING		Q8	2SC1740SSTA	TRANSISTOR	
84	RMG0293-C	RUBBER		Q9	2SC1740SSTA	TRANSISTOR	
85	RML0291	LEVER		Q10	2SC2785FETA	TRANSISTOR	
86	RMR0627-K	TRAY BASE		Q11	2SC2785FETA	TRANSISTOR	
87	RMS0382	SHAFT		Q12	2SC2787LTA	TRANSISTOR	
88	SDRD14	ROLLER		Q13	2SC1740SSTA	TRANSISTOR	
89	XTW3+6S	SCREW		Q14	2SC1740SSTA	TRANSISTOR	
90	XTBS26+10J	SCREW		Q15	2SC1740SSTA	TRANSISTOR	
91	XTWS3+10T	SCREW		Q101	2SJ40CDTA	TRANSISTOR	
92	RDF0033	MAGNETHOLD(A)		Q102	2SJ40CDTA	TRANSISTOR	
93	RHM245ZA	MAGNET		Q103	2SJ40CDTA	TRANSISTOR	
94	RMR0334	MAGNETHOLD(B)		Q104	2SJ40CDTA	TRANSISTOR	
95	RMR0624-W	DISC HOLDER		Q105	RVTDTC144TST	TRANSISTOR	
96	RMR0625-W	DISC CLAMPER		Q106	RVTDTC144TST	TRANSISTOR	
97	XTB3+6JFZ	SCREW		Q107	RVTDTC144TST	TRANSISTOR	
98	RFKNLCH555PK	DISC TRAY ASS'Y		Q108	RVTDTC144TST	TRANSISTOR	
99	XTN2+6F	SCREW		Q109	RVTDTC144TST	TRANSISTOR	
				Q110	RVTDTC144TST	TRANSISTOR	
		INTEGRATED CIRCUITS		Q115	2SD1020HTA	TRANSISTOR	[M]
				Q116	2SD1020HTA	TRANSISTOR	[M]
IC1	LA1832A	IC, IF/MPX		Q117	RVTDTC144EST	TRANSISTOR	
IC2	LC7218	IC, PLL		Q151	RVTDTC144TST	TRANSISTOR	
IC101	M51167BFP-E1	IC, R/P		Q152	RVTDTC144TST	TRANSISTOR	
IC102	BA7755A	IC, SW		Q153	2SC1740SLNET	TRANSISTOR	
IC103	CXA1102M-T4	IC, DOLBY		Q154	2SC1740SLNET	TRANSISTOR	
IC104	BU4066BCF-E2	IC, ANALOG SW	[M]	Q171	2SD1450STA	TRANSISTOR	
IC105	BU2040F-E2	IC, I/O	[M]	Q173	RVTDTC144TST	TRANSISTOR	
IC300	BU4052BCF-E2	IC, ANALOG SW		Q174	2SC1740SSTA	TRANSISTOR	
IC302	M62426FP-E1	IC, AUDIO	[M]	Q175	2SD1450STA	TRANSISTOR	
IC303	M51131L-702	VCA		Q176	2SD1450STA	TRANSISTOR	
IC304	BU2090F-E2	IC, IO EXPANDER	[M]	Q179	2SC2784FTA	TRANSISTOR	[M]
IC307	BA4558FDXE2	IC, OP AMP	[M]	Q180	2SC2784FTA	TRANSISTOR	[M]
IC501	SVI3101D	IC, POWER	△	Q201	2SD965RTA	TRANSISTOR	
IC502	AN78M05	IC, REGULATOR	△	Q202	2SK301QTA	TRANSISTOR	[M]
IC701	AN8802SCE1V	IC, HEAD AMP		Q203	2SD965RTA	TRANSISTOR	
IC702	MN66271RA	IC, DIGITAL LSI		Q204	2SK301QTA	TRANSISTOR	[M]
IC703	AN8389SE1	IC, 4-CH DRIVER		Q205	RVTDTC144TST	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
Q206	2SB621RTA	TRANSISTOR		D171	RVD1SS133TA	DIODE	
Q207	2SB621RTA	TRANSISTOR		D172	RVDMTZ4R7BTA	DIODE	
Q208	RVTDTTC114TST	TRANSISTOR		D173	RVD1SS133TA	DIODE	
Q209	RVTDTTC114TST	TRANSISTOR		D174	RVDMTZ3R6BTA	DIODE	[M]
Q218	RVTDTA114EST	TRANSISTOR		D307	RVD1SS133TA	DIODE	
Q219	RVTDTA143XST	TRANSISTOR		D308	RVD1SS133TA	DIODE	
Q220	RVTDTA143XST	TRANSISTOR		D310	RVD1SS133TA	DIODE	
Q305	2SK301QTA	TRANSISTOR	[M]	D311	RVD1SS133TA	DIODE	
Q306	2SK301QTA	TRANSISTOR	[M]	D312	RVDMTZ7R5BTA	DIODE	
Q307	2SC1740SSTA	TRANSISTOR		D501	1D3E	DIODE	[M] ▲
Q308	2SC1740SSTA	TRANSISTOR		D502	1D3E	DIODE	[M] ▲
Q309	2SD1020HTA	TRANSISTOR	[M]	D503	1N5402BM21	DIODE	
Q310	2SD1020HTA	TRANSISTOR	[M]	D504	1N5402BM21	DIODE	
Q311	RVTDTTC124EST	TRANSISTOR	[M]	D505	1N5402BM21	DIODE	
Q312	RVTDTA114EST	TRANSISTOR		D506	1N5402BM21	DIODE	
Q313	RVTDTA114EST	TRANSISTOR		D507	RVDMTZ12BTA	DIODE	
Q314	2SB621ARTA	TRANSISTOR		D516	RVDMTZ15CTA	DIODE	[M]
Q315	RVTDTTC124EST	TRANSISTOR	[M]	D517	RVDMTZ15CTA	DIODE	[M]
Q318	2SA933SSTA	TRANSISTOR		D518	MTZJ8R2CTA	DIODE	▲
Q501	2SC1740SSTA	TRANSISTOR		D550	1D3E	DIODE	[M]
Q502	2SD1762E	TRANSISTOR	[M]	D551	1D3E	DIODE	[M]
Q503	2SB1185E	TRANSISTOR		D552	RVDMTZ10BTA	DIODE	▲
Q504	2SA933SSTA	TRANSISTOR		D553	RVDMTZ10BTA	DIODE	▲
Q505	2SD1762E	TRANSISTOR	[M]	D554	RVDMTZ10BTA	DIODE	▲
Q506	2SB1185E	TRANSISTOR		D555	RVD1SS133TA	DIODE	
Q507	RVTDTTC124EST	TRANSISTOR	[M]	D556	RVD1SS133TA	DIODE	
Q516	2SD2037ETA	TRANSISTOR	[M]	D560	MTZJ6R2CTA	DIODE	
Q550	2SC1740SSTA	TRANSISTOR		D561	MTZJ8R2CTA	DIODE	
Q551	2SC1740SSTA	TRANSISTOR		D567	RVD1SS133TA	DIODE	
Q552	2SC1740SSTA	TRANSISTOR		D568	RVD1SS133TA	DIODE	
Q553	2SD1762E	TRANSISTOR	[M]	D569	RVD1SS133TA	DIODE	
Q554	2SA933SSTA	TRANSISTOR		D570	RVD1SS133TA	DIODE	
Q558	2SC2001KTA	TRANSISTOR		D571	RVD1SS133TA	DIODE	
Q701	2SB709S	TRANSISTOR		D572	RVD1SS133TA	DIODE	
Q900	2SC1740SSTA	TRANSISTOR		D900	SLR38DCTD0	DIODE	[M]
Q902	2SC1740SSTA	TRANSISTOR		D901	1SS291TA	DIODE	
Q903	2SC1740SSTA	TRANSISTOR		D902	SLR38DCTD0	DIODE	[M]
Q904	2SC1740SSTA	TRANSISTOR		D903	1SS291TA	DIODE	
Q905	RVTDTA114EST	TRANSISTOR		D905	RVD1SS133TA	DIODE	
Q906	2SC2001KTA	TRANSISTOR		D907	RVD1SS133TA	DIODE	
Q907	2SC2001KTA	TRANSISTOR		D909	RVD1SS133TA	DIODE	
				D910	RVD1SS133TA	DIODE	
		DIODES		D911	RVD1SS133TA	DIODE	
				D912	RVD1SS133TA	DIODE	
D1	SVC211SPA-AL	DIODE	(E, EB)	D913	RVD1SS133TA	DIODE	
D2	SVC211SPA-AL	DIODE	(E, EB)	D914	RVD1SS133TA	DIODE	
D3	SVC211SPA-AL	DIODE	(E, EB)	D915	RVD1SS133TA	DIODE	
D4	MTZJ5R1CTA	DIODE	[M]	D916	RVDMTZ6R8BTA	DIODE	
D5	RVD1SS133TA	DIODE		D951	RVD1SS133TA	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
D971	RVD1SS133TA	DIODE		S936	EVQ21405R	SW, TUNING MODE	
				S937	EVQ21405R	SW, MEMORY/SET	
		VARIABLE RESISTORS		S938	EVQ21405R	SW, TUNING DOWN	
				S939	EVQ21405R	SW, TUNING UP	
VR101	RVNCC24B1T-A	VR, SEMIFIXED		S941	EVQ21405R	SW, AM	
VR102	RVNCC24B1T-A	VR, SEMIFIXED		S942	EVQ21405R	SW, FM	
VR103	RVNCC24B1T-A	VR, SEMIFIXED		S943	EVQ21405R	SW, TIMER REC	
VR104	RVNCC24B1T-A	VR, SEMIFIXED		S944	EVQ21405R	SW, TIMER PLAY	
VR201	RVNCC73B1T-A	VR, SEMIFIXED		S945	EVQ21405R	SW, CLOCK/TIMER	
VR202	RVNCC24B1T-A	VR, SEMIFIXED		S951	RSH1A89ZD-U	SW, MODE DETECT (1)	
VR203	RVNCC14B1T-A	VR, SEMIFIXED		S952	RSH1A90YD-U	SW, TAPE DETECT (1)	
VR900	RRV16B24104B	VR, VOLUME		S953	RSH1A90YD-U	SW, CrO ₂ DETECT (1)	
				S971	RSH1A89ZD-U	SW, MODE DETECT (2)	
		SWITCHES		S972	RSH1A90YD-U	SW, TAPE DETECT (2)	
				S973	RSH1A90YD-U	SW, TAB DETECT (2)	
S701	RSM0006-P	SW, RESET		S974	RSH1A90YD-U	SW, TAB DETECT (2)	
S900	EVQ21405R	SW, DOLBY		S975	RSH1A90YD-U	SW, CrO ₂ DETECT (2)	
S901	EVQ21405R	SW, NORMAL SPEED					
S902	EVQ21405R	SW, HIGH SPEED				CONNECTORS	
S903	EVQ21405R	SW, REV. PLAY					
S904	EVQ21405R	SW, REW		CN1	RJU063W07T	7P B-B CONNECTOR	
S905	EVQ21405R	SW, STOP		CN2	RJU063W07T	7P B-B CONNECTOR	
S906	EVQ21405R	SW, FF		CN100	RJS10T4ZA	10P CONNECTOR	
S907	EVQ21405R	SW, FWD. PLAY		CN200	RJS8T4ZA	8P CONNECTOR	
S908	EVQ21405R	SW, PAUSE		CN501	RJP9G4YA	9P CONNECTOR	
S909	EVQ21405R	SW, REV. MODE		CN502	RJU005A012	12P CONNECTOR	
S910	EVQ21405R	SW, DECK 1/2		CN503	RJU005A012	12P CONNECTOR	
S911	EVQ21405R	SW, DISC 3		CN504	RJS1A5206	6P CONNECTOR	[M]
S912	EVQ21405R	SW, DISC 2		CN603	RJU077K20	20P B-B CONNECTOR	[M]
S913	EVQ21405R	SW, DISC 1		CN604	RJU077K20	20P B-B CONNECTOR	[M]
S914	EVQ21405R	SW, EASY EDIT		CN701	RJU035T016-1	16 PIN FFC CONNECTOR	
S916	EVQ21405R	SW, RANDOM		CN702	RJS1A6723-1Q	23 PIN FFC CONNCECTOR	
S917	EVQ21405R	SW, CD STOP		CN803	RJS1A6214-1	14P FFC CONNECTOR	
S918	EVQ21405R	SW, CD PAUSE		CN902	RJS1A6223-1	23P FFC CONNECTOR	
S919	EVQ21405R	SW, CD PLAY		CP1	RJT063W07T	7P CONNECTOR	
S920	EVQ21405R	SW, FF/SKIP		CP2	RJT063W07T	7P CONNECTOR	
S921	EVQ21405R	SW, REV/SKIP		CP101	RJP5G18ZA	5P CONNECTOR	
S922	EVQ21405R	SW, OPEN/CLOSE		CP102	RJP4G18ZA	4P CONNECTOR	
S923	EVQ21405R	SW, ON/FLAT		CP103	RJP3G1ZA	3P CONNECTOR	
S924	EVQ21405R	SW, HALL		CP502	RJT005W012	12P CONNECTOR	
S925	EVQ21405R	SW, SOFT		CP503	RJT005W012	12P CONNECTOR	
S926	EVQ21405R	SW, CLEAR		CP603	RJT077K20	20P B-B CONNECTOR	[M]
S927	EVQ21405R	SW, HEAVY		CP604	RJT077K20	20P B-B CONNECTOR	[M]
S928	EVQ21405R	SW, V. BASS					
S930	EVQ21405R	SW, POWER				COILS & TRANSFORMERS	
S931	EVQ21405R	SW, SURROUND					
S932	EVQ21405R	SW, MUTE		L1	RLQZP1R2KT-Y	AXIAL COIL	(E, EB)
S933	EVQ21405R	SW, FM MODE/BP		L2	RLQZPR47KT-Y	AXIAL COIL	(E, EB)
S934	EVQ21405R	SW, AUX		L3	RLQZPR47KT-Y	AXIAL COIL	

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
L4	ELEPKR68MA	INDUCTOR				RELAYS	
L5	ELEPKR68MA	INDUCTOR					
L6	ELELN822KL	RF CHOCK COIL		RLY501	RSY0023M-0	RELAY	[M] ▲
L7	ELELN822KL	RF CHOCK COIL					
L8	RLQZP1R0KT-Y	AXIAL COIL				FUSES	
L9	SLM1B10-1M	A.B. FILTER	(EG)				
L201	RL08C002M-T	BIAS OSC COIL		F1	XBA2C10TB0	FUSE	▲
L202	RLQZB470KT-D	RF CHOKE COIL					
L500	SLQZ650MH49	AC LINE COIL	(EG) ▲			FUSE CLIPS	
L501	SLQY07G-40	SP COIL					
L502	SLQY07G-40	SP COIL		FC1	SJT388	FUSE CLIP	
L900	RLQZP3R3KT-Y	AXIAL COIL		FC2	SJT388	FUSE CLIP	
L901	RLQZP2R2KT-Y	AXIAL COIL					
T501	RTP2M3B001	POWER TRANSFORMER	[M] ▲			JACKS	
		COMPONENT COMBINATION		JK1	RJH8201	JK, ANTENNA TERMINAL	[M]
				JK2	SJS208	JK, LOOP ANT. TERMINAL	
Z1	RLA6Z005M-T	AM ANT/OSC		JK301	RJH3209N	JK, RCA	[M]
Z2	RLI2Z006M-T	AM IFT		JK500	SJS9236	JK, AC INLET	▲
Z3	ENV17290G1R	FM TUNER PACK	(EG)	JK501	RJR0054	JK, SP TERMINAL	
Z101	EXBF6L306SYV	BLOCK RESISTOR		JK881	RJJ37TK01-C	JK, HP	
Z102	EXBF6L306SYV	BLOCK RESISTOR					
Z103	EXBF6L306SYV	BLOCK RESISTOR					
Z900	RCDHC-278N	SENSOR				<LOADING MOTOR>	
		CERAMIC FILTERS				INTEGRATED CIRCUITS	
				IC501	BA6218	IC, MOTOR DRIVER	
CF1	RLFFETNGA01L	FM CF	(EG)				
CF1	RLFFETWNA01L	FM CF	(E, EB)			TRANSISTORS	
CF2	RLFFETNGA02L	FM CF	(EG)				
CF2	RLFFETWNA01L	FM CF	(E, EB)	Q501	RVTDTC143EST	TRANSISTOR	
				Q502	RVTDTC143EST	TRANSISTOR	
		OSCILLATORS					
						DIODES	
X1	RSXZ456KM01	19KHZ OSC		D501	MA165TA	DIODE	
X2	RLFDFT12DD	FM RESONATOR		D502	RSQGP1S53V	PHOTO INTERRUPTOR	
X3	SVQ49U722T-S	7.2MHZ X'TAL		D503	PT381TB	PHOTO TRANSISTOR	
X701	RSXZ16M9M02T	CERAMIC OSC		D504	GL380TB	LED	
X900	RSXD32K7S02	32.768HKZ X'TAL	[M]				
X901	EF0EN6004T4	CERAMIC OSC	[M]				
						SWITCHES	
		DISPLAY TUBE		S501	RSH2A001-3	SW, UP/DOWN	[M]
FL900	RSL0192-F	FL	[M]	S502	RSH1A005	SW, FULL OPEN	
				S503	RSH1A005	SW, HALF OPEN	
		EARTH TERMINALS					
						CONNECTORS	
E500	SNE1004-2	EARTH PLATE					
				CN501	RJS1A6714-Q	14 PIN CONNECTOR	[M]

Resistors & Capacitors

Notes: • Important safety notice:

Components identified by Δ 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 these components, be sure to use only manufacturer's specified parts shown in the parts list.

• Capacitor values are in microfarads (μ F) unless specified otherwise, P=Pico-farads (pF), F=Farads.

• Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM).

• The parenthesized indications in the Values & Remarks column specify the area (Refer to the cover page for area).

Parts without these indications can be used for all areas.

• [M] Indicates in the Values & Remarks column indicates parts supplied by MESA

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
	RESISTORS		R41	ERDS2TJ102T	1K 1/4W	R110	ERDS2TJ392T	3.9K 1/4W
			R42	ERDS2TJ102T	1K 1/4W	R111	ERDS2TJ222T	2.2K 1/4W
			R43	ERDS2TJ102T	1K 1/4W	R112	ERDS2TJ222T	2.2K 1/4W
R1	ERDS2TJ104T	100K 1/4W (E,EB)	R44	ERDS2TJ102T	1K 1/4W	R113	ERDS2TJ182T	1.8K 1/4W
R2	ERDS2TJ104T	100K 1/4W (E,EB)	R45	ERDS2TJ102T	1K 1/4W	R114	ERDS2TJ182T	1.8K 1/4W
R3	ERDS2TJ221T	220 1/4W (E,EB)	R46	ERDS2TJ104T	100K 1/4W	R115	ERDS2TJ225T	2.2M 1/4W
R4	ERDS2TJ104T	100K 1/4W (E,EB)	R47	ERDS2TJ562T	5.6K 1/4W	R116	ERDS2TJ225T	2.2M 1/4W
R5	ERDS2TJ564T	560K 1/4W (E,EB)	R48	ERDS2TJ391T	390 1/4W	R117	ERDS2TJ105T	1M 1/4W
R6	ERDS2TJ391T	390 1/4W (E,EB)	R49	ERDS2TJ561T	560 1/4W	R118	ERDS2TJ105T	1M 1/4W
R7	ERDS2TJ272T	2.7K 1/4W (E,EB)	R50	ERDS2TJ102T	1K 1/4W	R121	ERDS2TJ124T	120K 1/4W
R8	ERDS2TJ684T	680K 1/4W (E,EB)	R51	ERDS2TJ103T	10K 1/4W	R122	ERDS2TJ124T	120K 1/4W
R9	ERDS2TJ391T	390 1/4W (E,EB)	R52	ERDS2TJ102T	1K 1/4W	R123	ERDS2TJ473T	47K 1/4W
R10	ERDS2TJ391T	390 1/4W (E,EB)	R53	ERDS2TJ102T	1K 1/4W	R124	ERDS2TJ473T	47K 1/4W
R11	ERDS2TJ684T	680K 1/4W (E,EB)	R54	ERDS2TJ102T	1K 1/4W	R125	ERDS2TJ472T	4.7K 1/4W
R15	ERDS2TJ181T	180 1/4W	R55	ERDS2TJ102T	1K 1/4W	R126	ERDS2TJ472T	4.7K 1/4W
R16	ERDS2TJ153T	15K 1/4W (EG)	R56	ERDS2TJ102T	1K 1/4W	R127	ERDS2TJ392T	3.9K 1/4W
R16	ERDS2TJ822T	8.2K 1/4W (E,EB)	R57	ERDS2TJ103T	10K 1/4W	R128	ERDS2TJ392T	3.9K 1/4W
R17	ERDS2TJ331T	330 1/4W	R58	ERDS2TJ103T	10K 1/4W	R131	ERDS2TJ823T	82K 1/4W
R18	ERDS2TJ471T	470 1/4W	R60	ERDS2TJ563T	56K 1/4W	R132	ERDS2TJ335T	3.3M 1/4W
R19	ERDS2TJ474T	470K 1/4W	R61	ERDS2TJ102T	1K 1/4W	R133	ERDS2TJ332T	3.3K 1/4W
R20	ERDS2TJ562T	5.6K 1/4W	R63	ERDS2TJ102T	1K 1/4W	R134	ERDS2TJ474T	470K 1/4W
R21	ERDS2TJ822T	8.2K 1/4W	R64	ERDS2TJ820T	82 1/4W	R137	ERD25TJ103T	10K 1/4W
R22	ERDS2TJ473T	47K 1/4W	R65	ERDS2TJ103T	10K 1/4W	R138	ERD25TJ103T	10K 1/4W
R23	ERDS2TJ332T	3.3K 1/4W	R71	ERDS2TJ182T	1.8K 1/4W	R139	ERDS2TJ103T	10K 1/4W
R24	ERDS2TJ472T	4.7K 1/4W	R72	ERDS2TJ122T	1.2K 1/4W	R141	ERDS2TJ682T	6.8K 1/4W
R25	ERDS2TJ271T	270 1/4W	R73	ERDS2TJ122T	1.2K 1/4W	R142	ERDS2TJ682T	6.8K 1/4W
R26	ERDS2TJ471T	470 1/4W	R74	ERDS2TJ103T	10K 1/4W	R145	ERDS2TJ103T	10K 1/4W
R27	ERDS2TJ272T	2.7K 1/4W	R75	ERDS2TJ222T	2.2K 1/4W	R146	ERDS2TJ103T	10K 1/4W
R28	ERDS2TJ473T	47K 1/4W	R76	ERDS2TJ331T	330 1/4W	R149	ERDS2TJ272T	2.7K 1/4W
R29	ERDS2TJ680T	68 1/4W	R77	ERDS2TJ474T	470K 1/4W	R150	ERDS2TJ272T	2.7K 1/4W
R32	ERDS2TJ272T	2.7K 1/4W	R101	ERD25TJ334T	330K 1/4W	R151	ERDS2TJ105T	1M 1/4W
R33	ERDS2TJ272T	2.7K 1/4W	R102	ERDS2TJ104T	100K 1/4W	R152	ERDS2TJ105T	1M 1/4W
R34	ERDS2TJ103T	10K 1/4W	R103	ERDS2TJ153T	15K 1/4W	R153	ERDS2TJ102T	1K 1/4W
R35	ERDS2TJ103T	10K 1/4W	R104	ERDS2TJ153T	15K 1/4W	R154	ERDS2TJ102T	1K 1/4W
R36	ERDS2TJ474T	470K 1/4W	R105	ERDS2TJ271T	270 1/4W	R155	ERDS2TJ681T	680 1/4W
R37	ERDS2TJ474T	470K 1/4W	R106	ERD25TJ222T	2.2K 1/4W	R156	ERDS2TJ681T	680 1/4W
R38	ERDS2TJ272T	2.7K 1/4W	R107	ERDS2TJ330T	33 1/4W	R158	ERDS2TJ221T	220 1/4W
R39	ERDS2TJ272T	2.7K 1/4W	R108	ERDS2TJ330T	33 1/4W	R159	ERDS2TJ222T	2.2K 1/4W
R40	ERDS2TJ391T	390 1/4W	R109	ERDS2TJ392T	3.9K 1/4W	R160	ERDS2TJ222T	2.2K 1/4W

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
R161	ERDS2TJ472T	4.7K 1/4W	R301	ERDS2TJ223T	22K 1/4W	R382	ERDS2TJ152T	1.5K 1/4W
R162	ERDS2TJ472T	4.7K 1/4W	R302	ERDS2TJ223T	22K 1/4W	R383	ERDS2TJ105T	1M 1/4W
R163	ERDS2TJ433T	43K 1/4W	R303	ERDS2TJ822T	8.2K 1/4W	R385	ERDS2TJ474T	470K 1/4W
R169	ERDS2TJ102T	1K 1/4W	R304	ERDS2TJ822T	8.2K 1/4W	R386	ERDS2TJ331T	330 1/4W
R170	ERDS2TJ102T	1K 1/4W	R305	ERDS2TJ222T	2.2K 1/4W	R387	ERDS2TJ222T	2.2K 1/4W
R172	ERDS2TJ331T	330 1/4W	R306	ERDS2TJ222T	2.2K 1/4W	R388	ERDS2TJ222T	2.2K 1/4W
R173	ERDS2TJ103T	10K 1/4W	R307	ERDS2TJ332T	3.3K 1/4W	R389	ERDS2TJ104T	100K 1/4W
R174	ERDS2TJ103T	10K 1/4W	R308	ERDS2TJ332T	3.3K 1/4W	R390	ERDS2TJ104T	100K 1/4W
R176	ERDS2TJ103T	10K 1/4W	R309	ERDS2TJ222T	2.2K 1/4W	R392	ERDS2TJ334T	330K 1/4W
R177	ERDS2TJ682T	6.8K 1/4W	R310	ERDS2TJ222T	2.2K 1/4W	R393	ERDS2TJ392T	3.9K 1/4W
R178	ERDS2TJ1R2T	1.2 1/4W	R311	ERDS2TJ332T	3.3K 1/4W	R394	ERDS2TJ105T	1M 1/4W
R179	ERDS2TJ472T	4.7K 1/4W	R312	ERDS2TJ332T	3.3K 1/4W	R395	ERD25FVJ6R8T	6.8 1/4W
R180	ERDS2TJ472T	4.7K 1/4W	R319	ERDS2TJ103T	10K 1/4W	R396	ERDS2TJ821T	820 1/4W
R181	ERD25TJ332T	3.3K 1/4W	R320	ERDS2TJ222T	2.2K 1/4W	R397	ERDS2TJ153T	15K 1/4W
R182	ERDS2TJ1R0T	1 1/4W	R323	ERDS2TJ272T	2.7K 1/4W	R400	ERDS2TJ272T	2.7K 1/4W
R183	ERDS2TJ104T	100K 1/4W	R331	ERDS2TJ222T	2.2K 1/4W	R405	ERDS2TJ104T	100K 1/4W
R184	ERDS2TJ104T	100K 1/4W	R333	ERDS2TJ103T	10K 1/4W	R406	ERDS2TJ104T	100K 1/4W
R185	ERDS2TJ104T	100K 1/4W	R334	ERDS2TJ152T	1.5K 1/4W	R501	ERDS2TJ102T	1K 1/4W
R186	ERDS2TJ102T	1K 1/4W	R335	ERD2FCVG470T	47 1/4W	R502	ERDS2TJ102T	1K 1/4W
R188	ERDS2TJ102T	1K 1/4W	R336	ERDS2TJ102T	1K 1/4W	R503	ERDS2TJ683T	68K 1/4W
R189	ERDS2TJ472T	4.7K 1/4W	R337	ERDS2TJ103T	10K 1/4W	R504	ERDS2TJ683T	68K 1/4W
R200	ERDS2TJ102T	1K 1/4W	R338	ERDS2TJ103T	10K 1/4W	R505	ERDS2TJ682T	6.8K 1/4W
R201	ERDS2TJ2R7T	2.7 1/4W	R339	ERDS2TJ473T	47K 1/4W	R506	ERDS2TJ682T	6.8K 1/4W
R202	ERDS2TJ562T	5.6K 1/4W	R340	ERDS2TJ103T	10K 1/4W	R507	ERDS2TJ683T	68K 1/4W
R203	ERDS2TJ153T	15K 1/4W	R341	ERDS2TJ103T	10K 1/4W	R508	ERDS2TJ683T	68K 1/4W
R204	ERDS2TJ123T	12K 1/4W	R342	ERDS2TJ222T	2.2K 1/4W	R509	ERDS1FVJ100T	10 1/2W ▲
R205	ERDS2TJ334T	330K 1/4W	R343	ERDS2TJ222T	2.2K 1/4W	R510	ERDS1FVJ100T	10 1/2W ▲
R206	ERDS2TJ102T	1K 1/4W	R344	ERDS2TJ222T	2.2K 1/4W	R511	ERDS2TJ124T	120K 1/4W
R207	ERDS2TJ2R7T	2.7 1/4W	R345	ERDS2TJ562T	5.6K 1/4W	R512	ERDS2TJ823T	82K 1/4W
R208	ERDS2TJ123T	12K 1/4W	R346	ERDS2TJ562T	5.6K 1/4W	R513	ERDS2TJ334T	330K 1/4W
R209	ERDS2TJ123T	12K 1/4W	R347	ERDS2TJ473T	47K 1/4W	R514	ERDS2TJ563T	56K 1/4W
R210	ERDS2TJ272T	2.7K 1/4W	R348	ERDS2TJ103T	10K 1/4W	R515	ERDS2TJ103T	10K 1/4W
R211	ERDS2TJ334T	330K 1/4W	R351	ERDS2TJ472T	4.7K 1/4W	R516	ERD2FCVG470T	47 1/4W
R212	ERDS2TJ123T	12K 1/4W	R352	ERDS2TJ472T	4.7K 1/4W	R518	ERDS1FVJ390T	39 1/2W ▲
R213	ERDS2TJ152T	1.5K 1/4W	R353	ERDS2TJ471T	470 1/4W	R519	ERDS1FVJ390T	39 1/2W ▲
R220	ERDS2TJ472T	4.7K 1/4W	R354	ERDS2TJ471T	470 1/4W	R521	ERDS1FVJ152T	1.5K 1/2W ▲
R221	ERDS2TJ2R7T	2.7 1/4W	R361	ERDS2TJ103T	10K 1/4W	R522	ERDS1FVJ4R7T	4.7 1/2W ▲
R225	ERDS2TJ2R7T	2.7 1/4W	R363	ERDS2TJ391T	390 1/4W	R523	ERDS1FVJ4R7T	4.7 1/2W ▲
R226	ERDS2TJ102T	1K 1/4W	R365	ERDS2TJ473T	47K 1/4W	R524	ERDS1FVJ4R7T	4.7 1/2W ▲
R227	ERDS2TJ102T	1K 1/4W	R366	ERDS2TJ473T	47K 1/4W	R525	ERDS2TJ151T	150 1/4W
R228	ERDS2TJ472T	4.7K 1/4W	R367	ERDS2TJ822T	8.2K 1/4W	R526	ERDS1FVJ152T	1.5K 1/2W ▲
R229	ERDS2TJ103T	10K 1/4W	R368	ERDS2TJ822T	8.2K 1/4W	R527	ERDS1FVJ470T	47 1/2W ▲
R230	ERDS2TJ472T	4.7K 1/4W	R369	ERDS2TJ823T	82K 1/4W	R528	ERD2FCVG220T	22 1/4W
R231	ERDS2TJ472T	4.7K 1/4W	R370	ERDS2TJ823T	82K 1/4W	R530	ERDS1FVJ681T	680 1/2W ▲
R232	ERDS2TJ222T	2.2K 1/4W	R377	ERDS2TJ472T	4.7K 1/4W	R531	ERDS2TJ151T	150 1/4W
R233	ERD25TJ222T	2.2K 1/4W	R378	ERDS2TJ472T	4.7K 1/4W	R532	ERDS2TJ331T	330 1/4W
R234	ERDS2TJ472T	4.7K 1/4W	R379	ERDS2TJ182T	1.8K 1/4W	R533	ERDS2TJ472T	4.7K 1/4W
R235	ERDS2TJ104T	100K 1/4W	R380	ERDS2TJ182T	1.8K 1/4W	R534	ERDS2TJ562T	5.6K 1/4W
R236	ERDS2TJ104T	100K 1/4W	R381	ERDS2TJ152T	1.5K 1/4W	R536	ERDS1FVJ820T	82 1/2W ▲

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
R537	ERDS2TJ151T	150 1/4W	R724	ERJ6GEYJ333V	33K 1/10W	R903	ERDS2TJ472T	4.7K 1/4W
R538	ERDS1FVJ390T	39 1/2W ▲	R725	ERJ6GEYJ472V	4.7K 1/10W	R904	ERDS2TJ272T	2.7K 1/4W
R539	ERDS1FVJ390T	39 1/2W ▲	R726	ERJ6GEYJ473V	47K 1/10W	R905	ERDS2TJ222T	2.2K 1/4W
R540	ERDS2TJ100T	10 1/4W	R727	ERJ6GEYJ103V	10K 1/10W	R906	ERDS2TJ182T	1.8K 1/4W
R541	ERDS2TJ100T	10 1/4W	R728	ERJ6GEYJ392V	3.9K 1/10W	R907	ERDS2TJ122T	1.2K 1/4W
R542	ERDS2TJ222T	2.2K 1/4W	R730	ERJ6GEYJ331V	330 1/10W	R908	ERDS2TJ102T	1K 1/4W
R543	ERDS2TJ223T	22K 1/4W	R731	ERJ6GEYJ392V	3.9K 1/10W	R909	ERDS2TJ102T	1K 1/4W
R544	ERDS2TJ151T	150 1/4W	R734	ERJ6GEYJ101V	100 1/10W	R910	ERDS2TJ683T	68K 1/4W
R545	ERQ16NKNWR10E	0.1 1/6W ▲	R735	ERJ6GEYJ101V	100 1/10W	R911	ERDS2TJ223T	22K 1/4W
R547	ERQ16NKNWR10E	0.1 1/6W ▲	R736	ERJ6GEYJ101V	100 1/10W	R912	ERDS2TJ103T	10K 1/4W
R550	ERDS1FVJ221T	220 1/2W ▲	R738	ERJ6GEYJ223V	22K 1/10W	R913	ERDS2TJ682T	6.8K 1/4W
R551	ERDS1FVJ820T	82 1/2W ▲	R739	ERJ6GEYJ681V	680 1/10W	R914	ERDS2TJ472T	4.7K 1/4W
R553	ERDS2TJ472T	4.7K 1/4W	R741	ERJ6GEYJ562V	5.6K 1/10W	R915	ERDS2TJ272T	2.7K 1/4W
R554	ERDS2TJ473T	47K 1/4W	R742	ERJ6GEYJ562V	5.6K 1/10W	R916	ERDS2TJ222T	2.2K 1/4W
R555	ERDS2TJ183T	18K 1/4W	R743	ERJ6GEYJ562V	5.6K 1/10W	R917	ERDS2TJ182T	1.8K 1/4W
R556	ERDS2TJ102T	1K 1/4W	R744	ERJ6GEYJ103V	10K 1/10W	R918	ERDS2TJ122T	1.2K 1/4W
R557	ERDS2TJ153T	15K 1/4W	R745	ERJ6GEYJ155V	1.5M 1/10W	R919	ERDS2TJ102T	1K 1/4W
R558	ERDS1FVJ102T	1K 1/2W ▲	R748	ERJ6GEYJ182V	1.8K 1/10W	R920	ERDS2TJ102T	1K 1/4W
R559	ERDS2TJ180T	18 1/4W	R749	ERJ8GEYJ103V	10K 1/8W	R921	ERDS2TJ472T	4.7K 1/4W
R560	ERDS2TJ471T	470 1/4W	R817	ERDS2TJ104T	100K 1/4W	R922	ERDS2TJ272T	2.7K 1/4W
R561	ERDS2TJ151T	150 1/4W	R818	ERDS2TJ104T	100K 1/4W	R923	ERDS2TJ222T	2.2K 1/4W
R562	ERDS2TJ563T	56K 1/4W	R819	ERDS2TJ104T	100K 1/4W	R924	ERDS2TJ182T	1.8K 1/4W
R563	ERDS2TJ102T	1K 1/4W	R820	ERDS2TJ223T	22K 1/4W	R925	ERDS2TJ122T	1.2K 1/4W
R564	ERDS2TJ151T	150 1/4W	R821	ERDS2TJ223T	22K 1/4W	R926	ERDS2TJ102T	1K 1/4W
R565	ERD2FCVG120T	12 1/4W ▲	R865	ERDS2TJ472T	4.7K 1/4W	R927	ERDS2TJ102T	1K 1/4W
R566	ERDS1FVJ8R2T	8.2 1/2W ▲	R867	ERDS2TJ472T	4.7K 1/4W	R928	ERDS2TJ682T	6.8K 1/4W
R567	ERDS1FVJ8R2T	8.2 1/2W ▲	R868	ERDS2TJ472T	4.7K 1/4W	R929	ERDS2TJ103T	10K 1/4W
R568	ERDS2TJ153T	15K 1/4W	R869	ERDS2TJ472T	4.7K 1/4W	R930	ERDS2TJ222T	2.2K 1/4W
R569	ERDS1FVJ1R0T	1 1/2W ▲	R870	ERDS2TJ472T	4.7K 1/4W	R931	ERDS2TJ182T	1.8K 1/4W
R585	ERDS2TJ180T	18 1/4W	R871	ERDS2TJ472T	4.7K 1/4W	R932	ERDS2TJ122T	1.2K 1/4W
R586	ERDS2TJ180T	18 1/4W	R872	ERDS2TJ472T	4.7K 1/4W	R933	ERDS2TJ102T	1K 1/4W
R701	ERJ6GEYJ100V	10 1/10W	R881	ERDS2TJ820T	82 1/4W	R934	ERDS2TJ102T	1K 1/4W
R702	ERJ6GEYJ471V	470 1/10W	R882	ERDS2TJ820T	82 1/4W	R935	ERDS2TJ472T	4.7K 1/4W
R703	ERJ6GEYJ823V	82K 1/10W	R883	ERDS2TJ820T	82 1/4W	R936	ERDS2TJ682T	6.8K 1/4W
R704	ERJ6GEYJ102V	1K 1/10W	R884	ERDS2TJ820T	82 1/4W	R937	ERDS2TJ103T	10K 1/4W
R705	ERJ6GEYJ103V	10K 1/10W	R885	ERDS2TJ820T	82 1/4W	R938	ERDS2TJ223T	22K 1/4W
R706	ERJ6GEYJ102V	1K 1/10W	R886	ERDS2TJ820T	82 1/4W	R939	ERDS2TJ683T	68K 1/4W
R707	ERJ6GEYJ473V	47K 1/10W	R887	ERDS2TJ222T	2.2K 1/4W	R941	ERDS2TJ103T	10K 1/4W
R708	ERJ6GEYJ104V	100K 1/10W	R888	ERDS2TJ222T	2.2K 1/4W	R943	ERDS2TJ271T	270 1/4W
R709	ERJ6GEYJ683V	68K 1/10W	R889	ERDS2TJ222T	2.2K 1/4W	R945	ERDS2TJ122T	1.2K 1/4W
R711	ERJ6GEYJ154V	150K 1/10W	R890	ERDS2TJ222T	2.2K 1/4W	R946	ERDS2TJ102T	1K 1/4W
R712	ERJ6GEYJ221V	220 1/10W	R891	ERDS2TJ272T	2.7K 1/4W	R947	ERDS2TJ473T	47K 1/4W
R717	ERJ6GEYJ102V	1K 1/10W	R892	ERDS2TJ272T	2.7K 1/4W	R948	ERDS2TJ473T	47K 1/4W
R718	ERJ6GEYJ102V	1K 1/10W	R894	ERDS2TJ820T	82 1/4W	R949	ERDS2TJ104T	100K 1/4W
R719	ERJ6GEYJ102V	1K 1/10W	R895	ERDS2TJ820T	82 1/4W	R950	ERDS2TJ181T	180 1/4W
R720	ERJ6GEYJ102V	1K 1/10W	R899	ERDS2TJ273T	27K 1/4W	R951	ERDS2TJ332T	3.3K 1/4W
R721	ERJ6GEYJ101V	100 1/10W	R900	ERDS2TJ223T	22K 1/4W	R952	ERDS2TJ331T	330 1/4W
R722	ERJ6GEYJ563V	56K 1/10W	R901	ERDS2TJ103T	10K 1/4W	R953	ERDS2TJ223T	22K 1/4W
R723	ERJ6GEYJ182V	1.8K 1/10W	R902	ERDS2TJ682T	6.8K 1/4W	R954	ERDS2TJ223T	22K 1/4W

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
R955	ERDS2TJ102T	1K 1/4W	C5	ECBT1H5R6KC5	5.6P 50V (E,EB)	C59	ECBT1H330J5	33P 50V
R956	ERDS2TJ102T	1K 1/4W	C6	ECBT1H3R3KC5	3.3P 50V (E,EB)	C60	ECBT1H102KB5	1000P 50V
R957	ERDS2TJ102T	1K 1/4W	C7	ECBT1H4R7KC5	4.7P 50V (E,EB)	C61	ECBT1H331KB5	330P 50V
R958	ERDS2TJ102T	1K 1/4W	C8	ECBT1H3R3KC5	3.3P 50V (E,EB)	C62	ECEA1CU220B	22 16V
R959	ERDS2TJ102T	1K 1/4W	C9	ECBT1H2R2KC5	2.2P 50V (E,EB)	C63	ECBT1C103MS5	0.01 16V
R960	ERDS2TJ102T	1K 1/4W	C10	ECBT1H180JC5	18P 50V (E,EB)	C64	ECBT1C103MS5	0.01 16V
R961	ERDS2TJ223T	22K 1/4W	C11	RCBS1H102KBY	1000P 50V (E,EB)	C65	ECBT1H102KB5	1000P 50V
R962	ERDS2TJ223T	22K 1/4W	C15	ECBT1C103MS5	0.01 16V	C66	ECBT1H102KB5	1000P 50V
R963	ERDS2TJ223T	22K 1/4W	C16	ECEA1CU220B	22 16V	C67	ECBT1H102KB5	1000P 50V
R964	ERDS2TJ223T	22K 1/4W	C17	ECBT1C103MS5	0.01 16V	C68	ECBT1H102KB5	1000P 50V
R965	ERDS2TJ103T	10K 1/4W	C18	ECBT1H102KB5	1000P 50V	C71	ECBT1C103MS5	0.01 16V (EG)
R966	ERDS2TJ103T	10K 1/4W	C19	ECBT1C103MS5	0.01 16V	C71	ECBT1H331KB5	330P 50V (E,EB)
R967	ERDS2TJ101T	100 1/4W	C20	ECEA1HKA3R3B	3.3 50V	C72	ECBT1H471KB5	470P 50V (EG)
R968	ERDS2TJ101T	100 1/4W	C21	ECEA0JU101B	100 6.3V	C73	ECBT1H2R7KC5	2.7P 50V (EG)
R969	ERDS2TJ101T	100 1/4W	C22	ECBT1C103MS5	0.01 16V	C101	ECBT1H102KB5	1000P 50V
R970	ERDS2TJ101T	100 1/4W	C23	ECEA1CU220B	22 16V	C102	ECBT1H102KB5	1000P 50V
R971	ERDS2TJ103T	10K 1/4W	C24	ECBT1H473ZF5	0.047 50V	C104	ECFR1C223MR	0.022 16V
R972	ERDS2TJ103T	10K 1/4W	C25	ECEA1HKA4R7B	4.7 50V	C105	ECBT1H471KB5	470P 50V
R974	ERDS2TJ103T	10K 1/4W	C26	ECBT1C822MS5	8200P 16V	C106	ECBT1H471KB5	470P 50V
R975	ERDS2TJ472T	4.7K 1/4W	C27	ECQP1821JZT	820P 100V [M]	C108	ECEA1AU330B	33 10V
R976	ERDS2TJ561T	560 1/4W	C28	ECEA1HKA010B	1 50V	C109	ECEA1AU101B	100 10V
R977	ERDS2TJ104T	100K 1/4W	C29	ECFR1C103KR	0.01 16V	C110	ECFR1E104ZF5	0.1 25V
R978	ERDS2TJ104T	100K 1/4W	C30	ECFR1C103KR	0.01 16V	C111	ECBT1H331KB5	330P 50V
R979	ERDS2TJ102T	1K 1/4W	C31	ECBT1H150JC5	15P 50V	C112	ECBT1H331KB5	330P 50V
R980	ERDS2TJ102T	1K 1/4W	C32	ECBT1C103MS5	0.01 16V	C113	ECEA0JU221B	220 6.3V
R981	ERDS2TJ102T	1K 1/4W	C33	ECEA1HKA2R2B	2.2 50V	C114	ECEA0JU221B	220 6.3V
R982	ERDS2TJ103T	10K 1/4W	C34	ECEA1HKA010B	1 50V	C115	ECFR1C333JR	0.033 16V
R983	ERDS2TJ102T	1K 1/4W	C35	ECEA1HKA010B	1 50V	C116	ECFR1C333JR	0.033 16V
R984	ERDS2TJ102T	1K 1/4W	C36	ECEA1HKA010B	1 50V	C117	ECEA1HKA010B	1 50V
R985	ERDS2TJ102T	1K 1/4W	C37	ECEA1HKA010B	1 50V	C118	ECEA1HKA010B	1 50V
R986	ERDS2TJ473T	47K 1/4W	C38	ECBT1C822MS5	8200P 16V	C119	ECEA1EU4R7B	4.7 25V
R987	ERDS2TJ106T	10M 1/4W	C39	ECBT1C822MS5	8200P 16V	C120	ECEA1EU4R7B	4.7 25V
R988	ERDS2TJ334T	330K 1/4W	C40	ECBT1H561KB5	560P 50V	C121	ECEA1HKA010B	1 50V
R989	ERDS2TJ681T	680 1/4W	C41	ECBT1H561KB5	560P 50V	C122	ECEA1HKA010B	1 50V
R990	ERDS2TJ472T	4.7K 1/4W	C42	ECBT1C562MR5	5600P 16V	C123	ECBT1H102KB5	1000P 50V
R991	ERDS2TJ472T	4.7K 1/4W	C43	ECBT1C562MR5	5600P 16V	C124	ECBT1H102KB5	1000P 50V
R992	ERDS2TJ101T	100 1/4W	C44	ECEA1CU101B	100 16V	C125	ECFR1C473MR	0.047 16V
R993	ERDS2TJ101T	100 1/4W	C45	ECEA1HKA010B	1 50V	C126	ECFR1C473MR	0.047 16V
R994	ERDS2TJ103T	10K 1/4W	C46	ECEA1HKA010B	1 50V	C127	ECBT1C332MR5	3300P 16V
R996	ERDS2TJ272T	2.7K 1/4W	C47	ECBT1H473ZF5	0.047 50V	C128	ECBT1C332MR5	3300P 16V
R997	ERDS2TJ223T	22K 1/4W	C48	ECBT1H100JC5	10P 50V	C129	ECBT1H151KB5	150P 50V
R999	ERDS2TJ472T	4.7K 1/4W	C49	ECBT1H331KB5	330P 50V	C130	ECBT1H151KB5	150P 50V
			C51	ECBT1C103MS5	0.01 16V	C131	ECBT1H221KB5	220P 50V
			C52	ECEA25M4R7RB	4.7 25V	C132	ECBT1H221KB5	220P 50V
			C53	ECBT1C103MS5	0.01 16V	C133	ECEA1HKS010B	1 50V
C1	ECBT1H5R6KC5	5.6P 50V (E,EB)	C54	ECBT1H180JC5	18P 50V	C134	ECEA1HKA010B	1 50V
C2	RCBS1H102KBY	1000P 50V (E,EB)	C55	ECBT1H150JC5	15P 50V	C137	ECFR1C183KR	0.018 16V
C3	ECBT1H2R2KC5	2.2P 50V (E,EB)	C56	ECBT1H102KB5	1000P 50V	C138	ECFR1C183KR	0.018 16V
C4	ECBT1H181KB5	180P 50V (E,EB)	C57	ECEA0JU101B	100 6.3V	C139	ECEA1HU2R2B	2.2 50V

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
C140	ECEA1CKA100B	10 16V	C302	ECBT1H101KB5	100P 50V	C368	ECEA1HKAR33B	0.33 50V
C141	ECEA1HU0R1B	0.1 50V	C303	ECBT1E103ZF5	0.01 25V	C369	ECEA1HKA3R3B	3.3 50V
C142	ECFR1C223MR	0.022 16V	C304	ECBT1E103ZF5	0.01 25V	C370	ECEA0JKA470B	47 6.3V
C143	ECEA1HKA010B	1 50V	C309	ECBT1E103ZF5	0.01 25V	C372	ECBT1E103ZF5	0.01 25V
C144	ECEA1HKA010B	1 50V	C310	ECBT1E103ZF5	0.01 25V	C373	ECKR1H103ZF5	0.01 50V
C145	ECEA1CKA100B	10 16V	C311	ECBT1H102KB5	1000P 50V	C374	ECEA1CKA220B	22 16V
C146	ECEA1CKA100B	10 16V	C312	ECBT1H102KB5	1000P 50V	C375	ECBT1H101KB5	100P 50V
C150	ECEA1AU470B	47 10V	C315	ECBT1H470J5	47P 50V	C376	ECBT1H101KB5	100P 50V
C151	ECEA1HKA010B	1 50V	C316	ECBT1H470J5	47P 50V	C377	ECKR1H103ZF5	0.01 50V
C152	ECEA1HKA010B	1 50V	C317	ECBT1H470J5	47P 50V	C378	ECEA1HKA010B	1 50V
C153	ECBT1H102KB5	1000P 50V	C318	ECBT0J223MS5	0.022 6.3V	C501	ECEA1HKAR47B	0.47 50V
C154	ECBT1H102KB5	1000P 50V	C319	ECEA1HKAR47B	0.47 50V	C502	ECEA1HKAR47B	0.47 50V
C155	ECEA1CKA100B	10 16V	C320	ECEA1HKA3R3B	3.3 50V	C503	ECBT1H102KB5	1000P 50V
C156	ECEA1CKA100B	10 16V	C321	ECEA1HKA3R3B	3.3 50V	C504	ECBT1H102KB5	1000P 50V
C159	ECBT1C472MR5	4700P 16V	C322	ECEA1HKA3R3B	3.3 50V	C505	ECBT1H331KB5	330P 50V
C160	ECBT1C472MR5	4700P 16V	C323	ECEA1HKA0R1B	0.1 50V	C506	ECBT1H331KB5	330P 50V
C161	ECEA1CU101B	100 16V	C324	ECEA1HKA0R1B	0.1 50V	C507	ECBT1H8R2KC5	8.2P 50V
C162	ECEA0JU471B	470 6.3V	C325	ECEA1HKAR22B	0.22 50V	C508	ECBT1H8R2KC5	8.2P 50V
C163	ECEA1HKA010B	1 50V	C326	ECEA1HKAR22B	0.22 50V	C509	ECEA1HKA010B	1 50V
C164	ECEA1HKA010B	1 50V	C327	ECBT1C222MR5	2200P 16V	C510	ECEA1HKA010B	1 50V
C165	ECEA1CKA100B	10 16V	C328	ECBT1C222MR5	2200P 16V	C511	ECEA1HU330B	33 50V
C166	ECEA1CKA100B	10 16V	C329	ECEA1HKA010B	1 50V	C512	ECEA2AU100B	10 100V
C167	ECEA50ZR68B	0.68 50V	C330	ECEA1HKA010B	1 50V	C513	ECKR1H473ZF5	0.047 50V
C168	ECEA50ZR68B	0.68 50V	C331	ECEA1HKAR22B	0.22 50V	C514	ECKR1H473ZF5	0.047 50V
C169	ECEA1EU4R7B	4.7 25V	C332	ECEA1HKAR22B	0.22 50V	C515	ECBT1E103ZF5	0.01 25V
C170	ECEA1EU4R7B	4.7 25V	C333	ECEA1HKAR22B	0.22 50V	C516	ECBT1E103ZF5	0.01 25V
C171	ECEA1CKA100B	10 16V	C334	ECEA1HKAR22B	0.22 50V	C517	ECA1EU222EV	2200 25V [M]
C172	ECEA1CU220B	22 16V	C339	ECEA1HKA010B	1 50V	C518	ECKR1H103ZF5	0.01 50V
C173	ECBT1C103MS5	0.01 16V	C340	ECEA1HKA010B	1 50V	C519	ECKR1H103ZF5	0.01 50V
C174	ECEA1EU4R7B	4.7 25V	C341	ECEA1HKA010B	1 50V	C520	ECQE1224KF3	0.22 100V [M]
C175	ECEA1CU101B	100 16V	C342	ECEA1CKA220B	22 16V	C521	ECKR1H103ZF5	0.01 50V
C176	ECQV1H473JZ3	0.047 50V	C343	ECFR1C104MR	0.1 16V	C522	ECEA1HU222E	2200 50V Δ
C177	ECBT1H102KB5	1000P 50V	C344	ECFR1C104MR	0.1 16V	C523	ECEA1HU222E	2200 50V Δ
C178	ECBT1H102KB5	1000P 50V	C346	ECBT1H101KB5	100P 50V	C528	ECEA1AKA470B	47 10V
C179	ECBT1C103MS5	0.01 16V	C347	ECBT1H101KB5	100P 50V	C529	ECBT1E103ZF5	0.01 25V
C180	ECFR1C103MR	0.01 16V	C348	ECFR1C104MR	0.1 16V	C530	ECBT1E103ZF5	0.01 25V
C181	ECBT1C103MS5	0.01 16V	C349	ECBT1E103ZF5	0.01 25V	C531	ECEA1HKA010B	1 50V
C182	ECEA1EU4R7B	4.7 25V	C350	ECKR1H103ZF5	0.01 50V	C536	ECEA1VU470B	47 10V Δ
C183	ECQV1H474JZ3	0.47 50V	C355	ECBT1E103ZF5	0.01 25V	C537	ECBT1E103ZF5	0.01 25V
C184	ECQP2A152JZT	1500P 100V	C356	ECBT1E103ZF5	0.01 25V	C538	ECEA1CKA470B	47 16V Δ
C185	ECQP2A472JZT	4700P 100V	C357	ECBT1H101KB5	100P 50V	C539	ECBT1E103ZF5	0.01 25V
C186	ECEA1AU470B	47 10V	C358	ECBT1H101KB5	100P 50V	C540	ECKR1H102KBD	1000P 50V (EG)
C187	ECBT1H471KB5	470P 50V	C359	ECBT1H270J5	27P 50V	C541	ECKR1H102KBD	1000P 50V (EG)
C188	ECBT1H471KB5	470P 50V	C360	ECBT1H270J5	27P 50V	C542	ECKR1H473ZF5	0.047 50V
C189	ECQP2A272JZT	2700P 100V	C361	ECBT1H102KB5	1000P 50V	C550	ECEA1HU330B	33 50V
C190	ECBT1C103MS5	0.01 16V	C363	ECBT1H102KB5	1000P 50V	C551	ECEA1HU101B	100 50V
C201	ECEA1CU101B	100 16V	C365	ECEA1HKA3R3B	3.3 50V	C552	ECKR1H103ZF5	0.01 50V
C202	ECFR1E104ZF5	0.1 25V	C366	ECEA1HKA3R3B	3.3 50V	C553	ECEA1HKA3R3B	3.3 50V
C301	ECBT1H101KB5	100P 50V	C367	ECEA1HKAR33B	0.33 50V	C554	ECBT1E103ZF5	0.01 25V

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
C555	ECEA0JKA101B	100 6.3V	C747	ECUV1H222KBN	2200P 50V		CHIP JUMPERS	
C556	ECBT1E103ZF5	0.01 25V	C748	ECUV1H471KBM	470P 50V			
C557	ECEA1CKA330B	33 16V	C872	ECEA1HKA3R3B	3.3 50V	RJ701	ERJ8GEY0R00A	0 1/10W
C558	ECEA1VU101B	100 10V	C880	ECBT1H331KB5	330P 50V	RJ702	ERJ8GEY0R00A	0 1/10W
C560	ECEA0JKA101B	100 6.3V	C881	ECBT1H331KB5	330P 50V	RJ703	ERJ8GEY0R00A	0 1/10W
C561	ECBT1E103ZF5	0.01 25V	C900	ECBT1H101KB5	100P 50V	RJ704	ERJ8GEY0R00A	0 1/10W
C562	ECEA1AKA470B	47 10V	C901	ECBT1H101KB5	100P 50V	RJ707	ERJ8GEY0R00A	0 1/10W
C563	ECBT1E103ZF5	0.01 25V	C902	ECEA0JKA101B	100 6.3V	RJ708	ERJ8GEY0R00A	0 1/10W
C564	ECEA1CKA330B	33 16V	C903	ECBT1H102KB5	1000P 50V	RJ709	ERJ8GEY0R00A	0 1/10W
C701	ECEA0JKA220I	22 6.3V	C904	ECEA0JU102B	1000 6.3V	RJ714	ERJ8GEY0R00A	0 1/10W
C702	ECEA1HKA010I	1 50V	C905	ECEA0JU102B	1000 6.3V	RJ715	ERJ8GEY0R00A	0 1/10W
C703	ECEA0JKA101I	100 6.3V	C906	ECBT1H102KB5	1000P 50V	RJ716	ERJ8GEY0R00A	0 1/10W
C704	ECUZ1E104MBN	0.1 25V	C907	ECBT1C103MS5	0.01 16V	RJ717	ERJ8GEY0R00A	0 1/10W
C705	ECEA1HKA010I	1 50V	C908	ECBT1C103MS5	0.01 16V	RJ721	ERJ6GEY0R00A	0 1/10W
C706	ECUV1H101JCN	100P 50V	C909	ECBT1H561KB5	560P 50V	RJ724	ERJ6GEY0R00A	0 1/10W
C707	ECUV1E273KBN	0.027 25V	C910	ECBT1H561KB5	560P 50V	RJ725	ERJ6GEY0R00A	0 1/10W
C708	ECUV1H472KBN	4700P 50V	C911	ECBT1H561KB5	560P 50V	RJ726	ERJ6GEY0R00A	0 1/10W
C709	ECUV1C473KBN	0.047 16V	C912	ECEA0JKA470B	47 6.3V	RJ799	ERJ6GEY0R00A	0 1/10W
C710	ECUV1H152KBN	1500P 50V	C913	ECBT1H561KB5	560P 50V			
C711	ECUZ1E104MBN	0.1 25V	C914	ECBT1H561KB5	560P 50V		TEST JUMPERS	
C712	ECUZ1E104MBN	0.1 25V	C915	ECBT1H561KB5	560P 50V			
C713	ECUV1C104MBM	0.1 16V	C916	ECBT1H561KB5	560P 50V	TJ701	EYF8CU	TEST JUMPER
C714	ECEA0JKA101I	100 6.3V	C917	ECBT1C103MS5	0.01 16V	TJ702	EYF8CU	TEST JUMPER
C715	ECEA0JKA470I	47 6.3V	C918	ECBT1C103MS5	0.01 16V			
C716	ECUV1H561KBN	560P 50V	C919	ECBT1H101KB5	100P 50V		<LOADING MOTOR>	
C717	ECUZ1E104MBN	0.1 25V	C920	ECBT1H101KB5	100P 50V		RESISTORS	
C718	ECUV1C224KBM	0.22 16V	C921	ECEA1HKA010B	1 50V	R501	ERDS2TJ271T	270 1/4W
C721	ECUV1H270JCN	27P 50V	C922	ECEA1HKA010B	1 50V			
C722	ECUV1H270JCN	27P 50V	C923	ECBT1C103MS5	0.01 16V		CAPACITORS	
C723	ECEA1AKA221I	220 10V	C924	ECBT1H180JC5	18P 50V	C501	ECA1AKF820B	82 10V
C724	ECUV1C104MBM	0.1 16V	C925	ECBT1H220JC5	22P 50V			
C725	ECUV1H102KBN	1000P 50V	C926	ECBT1H680J5	68P 50V			
C726	ECUV1H102KBN	1000P 50V	C927	ECBT1H680J5	68P 50V			
C727	ECEA1HPK010I	1 50V	C928	ECBT1H560J5	56P 50V			
C728	ECEA1HPK010I	1 50V	C929	ECBT1H560J5	56P 50V			
C730	ECUZ1E104MBN	0.1 25V	C930	ECBT1H102KB5	1000P 50V			
C731	ECEA0JKA221I	220 6.3V	C931	ECBT1H102KB5	1000P 50V			
C732	ECEA0JKA221I	220 6.3V	C932	ECEA1HKAR33B	0.33 50V			
C733	ECUZ1E104MBN	0.1 25V	C933	ECEA1HKAR33B	0.33 50V			
C734	ECEA1AKA221I	220 10V	C934	ECEA1VKA330B	33 10V			
C735	ECUZ1E104MBN	0.1 25V	C935	ECBT1C103MS5	0.01 16V			
C736	ECUZ1E104MBN	0.1 25V	C936	ECBT1C103MS5	0.01 16V			
C737	ECUZ1E104MBN	0.1 25V	C937	ECBT1H101KB5	100P 50V			
C738	ECUV1C154KBN	0.15 16V	C938	ECBT1H102KB5	1000P 50V			
C742	ECUV1E273KBN	0.027 25V	C939	ECBT1H102KB5	1000P 50V			
C743	ECUZ1E104MBN	0.1 25V	C940	ECBT1H473ZF5	0.047 50V			
C744	ECUV1E822KBN	8200P 25V	C941	ECBT1H471KB5	470P 50V			
C745	ECUV1C473MBN	0.047 16V	C951	ECBT1H101KB5	100P 50V			
C746	ECUV1H050DCN	5P 50V	C971	ECBT1H101KB5	100P 50V			

Packing Materials & Accessories

- Notes:
- Important safety notice:
Components identified by Δ 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 these components, be sure to use only manufacturer's specified parts shown in the parts list.
 - The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area)
 - Parts without these indications can be used for all areas.
 - Remote Control Unit:
Supply period for three years from terminal of production.
 - The "(SF)" mark denotes the standard part.
 - [M] Indicates in the Remarks columns indicates parts supplied by **MESA**.
 - [VRD] Indicates in the Remarks columns indicates parts supplied by **Video Recorder Division**.
 - Warning : This product uses a laser diode. Refer to caution statements on page 3.
ACHTUNG : • Die Lasereinheit nicht zerlegen.
• Die Lasereinheit darf nur gegen eine vom hersteller spezifizierte einheit ausgetauscht werden.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		ACCESSORIES		A7	SJP9009	ANT ADAPTER	(EB)
				A8	XTN3+12AFZ	SCREW (ANT HOLDER)	
A1	EUR643801	REMOTE CONTROL	[M]			PACKING MATERIALS	
A2	RQT2809-B	INSTRUCTION MANUAL	[M] (EB)				
A2	RQT2810-E	INSTRUCTION MANUAL	[M] (E, EG)	P1	RPG2422	GIFT BOX	[M] (E, EG)
A2	RQT2811-G	INSTRUCTION MANUAL	[M] (E)	P1	RPG2423	GIFT BOX	[M] (EB)
A3	RJA0019-2K	AC CORD	(SF)(E, EG) Δ	P2	RPN0863	POLYFOAM	[M]
A3	VJA0733	AC CORD	[VRD](SF)(EB) Δ	P3	SPSD155	ACCESSORY CASE	
A4	SLA9Z5T	LOOP ANT	[M]	P4	XZB24X33C04	VINYL BAG	
A5	SSA270M	FM ANTENNA		P5	RPF0100	BAG (SET)	[M]
A6	RMN0244	ANT HOLDER					

Packaging

P3(SPSP155) : ACCESSORY CASE

P4 (XZB24X33C04) : VINYL BAG

A2 (RQT2809-B) : INSTRUCTION MANUAL (EB)

(RQT2810-E) : INSTRUCTION MANUAL (E, EG)

(RQT2811-G) : INSTRUCTION MANUAL (E)

A5 (SSA270M) : FM ANTENNA

PREPARED AM LOOP ANT

A4 (SLA9Z5T) : LOOP ANT

A6 (RMN0244) : ANT HOLDER

A8 (XTN3+12AFZ) : SCREW

A1 (EUR643801) : REMOTE CONTROL

A3 (RJA0019-2K) : AC CORD (E, EG)

(VJA0733) : AC CORD (EB)

A7 (SJP9009) : ANT ADAPTER (EB)

P2(RPN0863) — $\left\{ \begin{array}{l} *P2 (A) \\ *P2 (B) \\ *P2 (C) \\ *P2 (D) \end{array} \right.$

P1(RPG2422 ... E, EG)
(RPG2423 ... EB)

