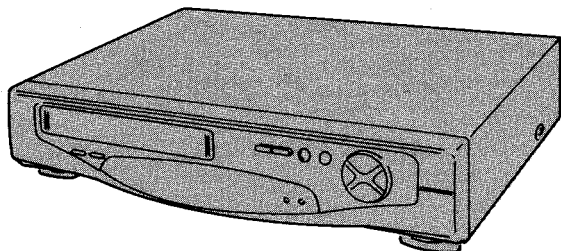


Service Manual

Video Cassette Recorder

Panasonic **VHS** **HQ**
PAL NTSC
NV-SD300AM
NV-SD400EU

K-MECHANISM

SPECIFICATIONS \ ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

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BLOCK DIAGRAMS \ БЛОК - СХЕМЫ

ABBREVIATIONS \ СОКРАЩЕНИЯ

SYSTEM CONTROL & SERVO BLOCK DIAGRAM \ БЛОК - СХЕМА СИСТЕМЫ УПРАВЛЕНИЯ И СЕРВОПРИВОДА

LUMINANCE & CHROMINANCE BLOCK DIAGRAM \ БЛОК - СХЕМА ОБРАБОТКИ ВИДЕО СИГНАЛА

SCHEMATIC DIAGRAMS \ ПРИНЦИПИАЛЬНЫЕ СХЕМЫ

POWER SUPPLY SECTION IN MAIN SCHEMATIC DIAGRAM \ ПРИНЦИПИАЛЬНАЯ СХЕМА БЛОКА ПИТАНИЯ (ОСНОВНАЯ ПЛАТА)

SYSTEM CONTROL & SERVO SECTION IN MAIN SCHEMATIC DIAGRAM \ ПРИНЦИПИАЛЬНАЯ СХЕМА СИСТЕМЫ УПРАВЛЕНИЯ И СЕРВОПРИВОДА

LUMINANCE/CHROMINANCE & AUDIO SECTION IN MAIN SCHEMATIC DIAGRAM \ ПРИНЦИПИАЛЬНАЯ СХЕМА ОБРАБОТКИ ВИДЕО И АУДИО СИГНАЛА (ОСНОВНАЯ ПЛАТА)

RF SECTION IN MAIN SCHEMATIC DIAGRAM \ ПРИНЦИПИАЛЬНАЯ СХЕМА ВЫСОКОЧАСТОТНОГО БЛОКА

OSD PACK SCHEMATIC DIAGRAM \ ПРИНЦИПИАЛЬНАЯ СХЕМА БЛОКА ЭКРАННОГО МЕНЮ

MOTOR DRIVE & SUB AUDIO PACK SCHEMATIC DIAGRAM \ ПРИНЦИПИАЛЬНАЯ СХЕМА УПРАВЛЕНИЯ ДВИГАТЕЛЕМ И ОБРАБОТКИ АУДИО СИГНАЛА (ДОПОЛНИТЕЛЬНАЯ ПЛАТА)

LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM \ ПРИНЦИПИАЛЬНАЯ СХЕМА ОБРАБОТКИ ВИДЕО СИГНАЛА

HEAD AMP SCHEMATIC DIAGRAM \ ПРИНЦИПИАЛЬНАЯ СХЕМА УСИЛИТЕЛЯ ВИДЕОГОЛОВКИ

TIMER SCHEMATIC DIAGRAM \ ПРИНЦИПИАЛЬНАЯ СХЕМА ТАЙМЕРА

TV DEMODULATOR PACK SCHEMATIC DIAGRAM \ ПРИНЦИПИАЛЬНАЯ СХЕМА ДЕМОДУЛЯТОРА

EXPLODED VIEWS & MECHANICAL PARTS LIST \ СБОРОЧНЫЕ ЧЕРТЕЖИ И СПИСОК МЕХАНИЧЕСКИХ ЗАПАСНЫХ ЧАСТЕЙ

CHASSIS PARTS SECTION (1) \ ШАССИ, СЕКЦИЯ 1

CHASSIS PARTS SECTION (2) \ ШАССИ, СЕКЦИЯ 2

PACKING PARTS SECTION \ УПАКОВОЧНЫЕ МАТЕРИАЛЫ

CASING PARTS SECTION \ КОРПУС

ELECTRICAL REPLACEMENT PARTS LIST \ СПИСОК ЭЛЕКТРИЧЕСКИХ ЗАПАСНЫХ ЧАСТЕЙ

Panasonic

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SPECIFICATIONS

ITEM	SPECIFICATION	ITEM	SPECIFICATION
POWER	SOURCE: 110~240V AC 50/60 Hz	AUDIO	HEAD: 1 Stationary head (Normal Audio)
	CONSUMPTION: 19 watts		INPUT: AUDIO IN Connector (Phono type) More than -10dBV (316mV), more than 47k Ω
RECORDING SYSTEM	2 rotary heads, helical scanning system		OUTPUT: AUDIO OUT Connector (Phono type) -6dBV (500mV), less than 1k Ω
	PAL/NTSC	TAPE FORMAT	VHS Cassette tape (Tape width 12.7 mm)
TV TUNER SYSTEM	VHF I: CH2~CH3 (PAL B/SECAM B) CH1~CH5 (PAL D/SECAM D, K1) VHF III: CHM1~CHU10 (PAL B/SECAM B) CH6~CH12 (PAL D/SECAM D, K1) UHF: CH21~CH69 (PAL G, H, I/SECAM G, K, K1) CH13~CH57 (PAL D) 75 Ω terminated	TAPE SPEED	SP: 23.39 mm/s (PAL), 33.35 mm/s (NTSC) LP: 11.695 mm/s (PAL), 11.12 mm/s (NTSC) Record/Playback Time: SP: 4 hours with 240 min. type tape LP: 8 hours with 240 min. type tape FF/REW Time: 2.5 min. with 180 min. type tape
	UHF: CH38 \pm 2 (PAL G, H, I/SECAM G, K, K1) CH25 \pm 2 (PAL D) 73 \pm 3 dB μ , 75 Ω terminated		
RF OUT SYSTEM		DIMENSIONS	430(W) \times 91(H) \times 310(D) mm
VIDEO	HEADS: 4 rotary heads 1 pair for SP recording, playback and trick play (L-R heads) 1 pair for LP recording, playback and trick play (L'-R' heads)	WEIGHT	4.6 kg
	INPUT: VIDEO IN Connector (Phono type) 1.0Vp-p, 75 Ω unbalanced	STANDARD ACCESSORIES	1 pc. DIN-RF Cable 1 pc. Infra-red Remote Controller 1 pc. AC Mains Lead 1 pc. AC Plug Adaptor (NV-SD300AM)
	OUTPUT: VIDEO OUT Connector (Phono type) 1.0Vp-p, 75 Ω unbalanced		

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

SECTION 1

GENERAL DESCRIPTIONS

1-1. SERVICE INFORMATION

1-1-1. SERVICE POSITION

A. CHECKING OF MAIN C.B.A.

When servicing the MAIN C.B.A., take out the MAIN C.B.A. and mechanism from the frame and turn over.

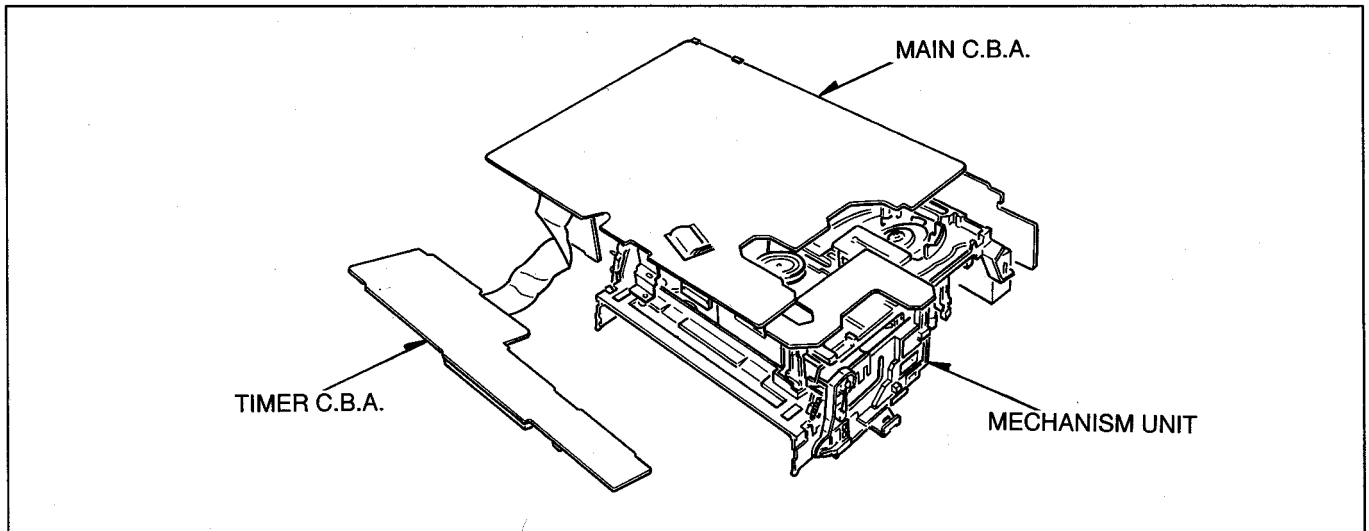


Fig. S1

B. MECHANISM SERVICE POSITION

When servicing the K-Mechanism, take out the mechanism from the MAIN C.B.A. and connect Extension Cable (VFK0889) between the loading-motor connector and P2001 as shown in Fig. S2.

In this position, the following services are possible.

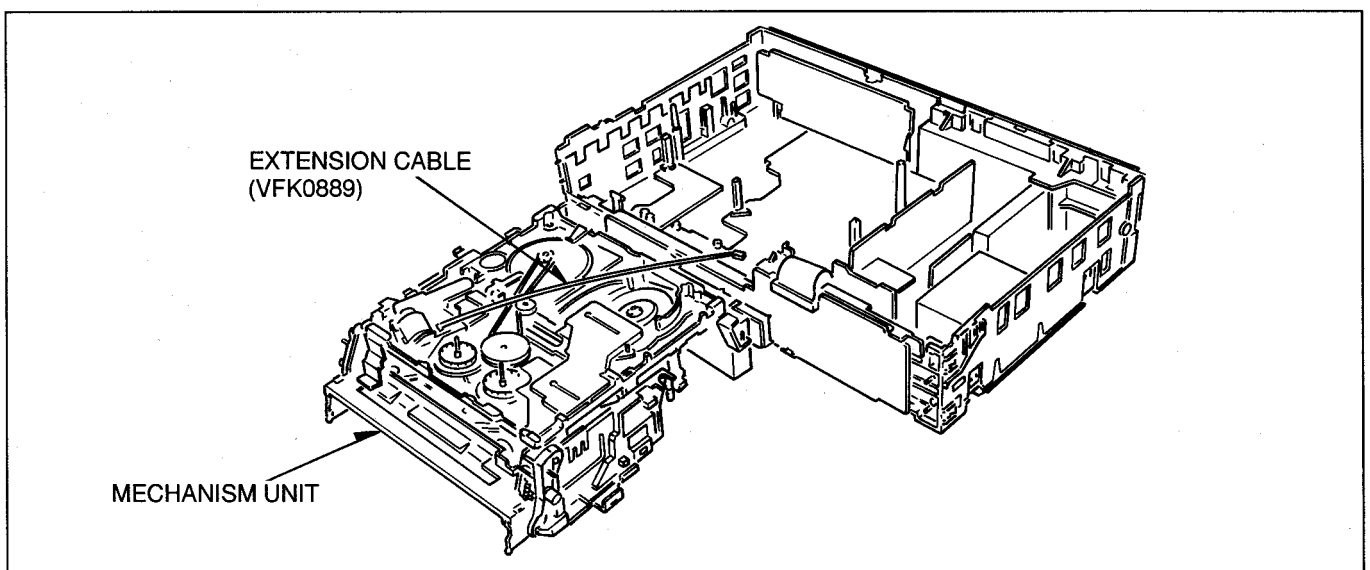


Fig. S2

B-1. CHECKING OF GEAR PHASE ALIGNMENT CONDITION

- 1) Check gear phase Alignment Condition of Mechanism.

B-2. CHECKING OF LOADING/UNLOADING OPERATION

There are 3 methods for manual operation of loading/unloading operation as follows.

1. HAND OPERATION

- 1) Turn the Worm Gear or the Worm Wheel Gear (Remove the Loading Motor Unit) manually.

2. BATTERY OPERATION

- 1) Remove the Extension Cable (VFK0889).
- 2) Connect the Battery (Manganese-Type R6 (AA) 3pcs./+4.5V) to the Loading Motor terminals.

3. SERVICE INFORMATION DISPLAY OPERATION

- 1) Set the Service Information Display mode.
(Press the "FF", "REW" and "EJECT" buttons simultaneously.)
- 2) Press the "FF", "REW" and "EJECT" buttons 7 times to set the Service Mode 7. (The end of display on the Display becomes "--".)
- 3) In the above Service Information Display mode, the Loading Motor rotates for Loading operation when the "PLAY" button is pressed.
The Loading Motor rotates for unloading operation when the "STOP" button is pressed.

Remark:

Use the "SERVICE INFORMATION DISPLAY" mode for a final check of mechanism movement.

B-3. CHECKING OF REEL GEARS OPERATION

- 1) Move the mechanism to "PLAY" position by loading operation. (Refer to B-2)
- 2) Turn the Capstan Rotor Unit to check movement of reel gears.

C. UDD CYLINDER UNIT REPLACEMENT

The Cylinder Unit can be replaced easily by the following method.

- 1) Remove the Top Panel.
- 2) Remove the 3 screws of the Cylinder Unit with a magnetized screw driver through the holes on the Bottom Plate as shown in Fig. S3.

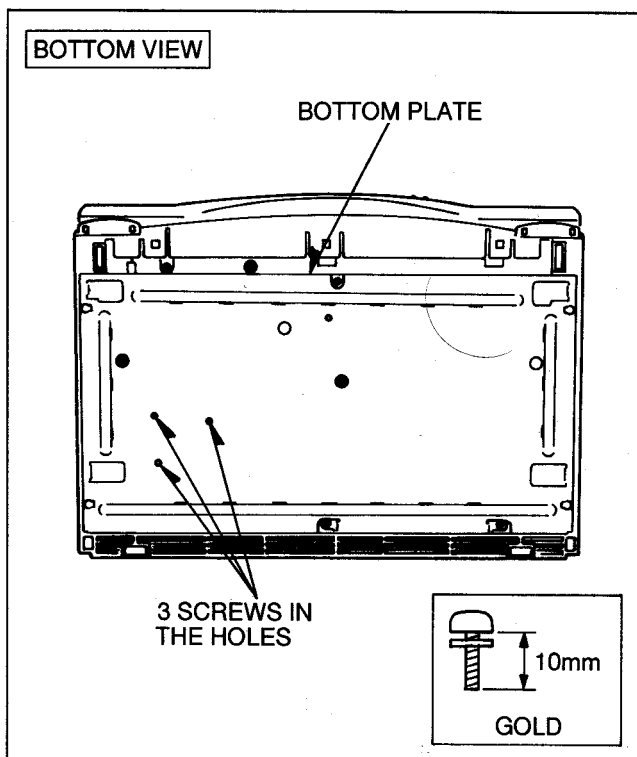


Fig. S3

D. UPPER CYLINDER REPLACEMENT

D-1. UPPER CYLINDER DISASSEMBLY

- 1) Remove 2 screws (A).
- 2) Remove the Cylinder Stator Unit.
- 3) Remove 2 screws (B).
- 4) Remove the Cylinder Rotor Unit.
- 5) Loosen hex screw (C) (1.5 mm) and remove the Cylinder Retainer.
- 6) Remove the Upper Cylinder.

TOP VIEW

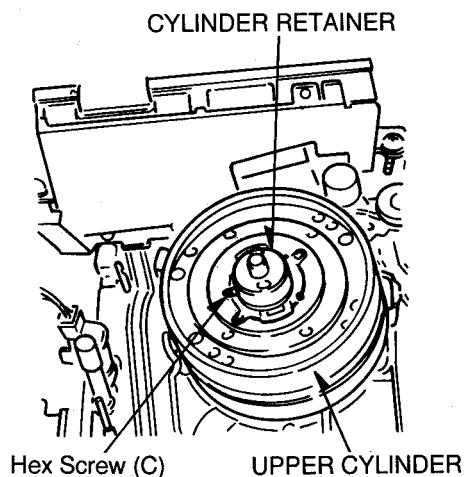
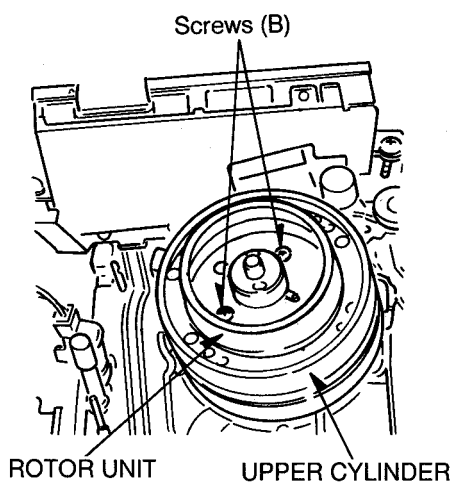
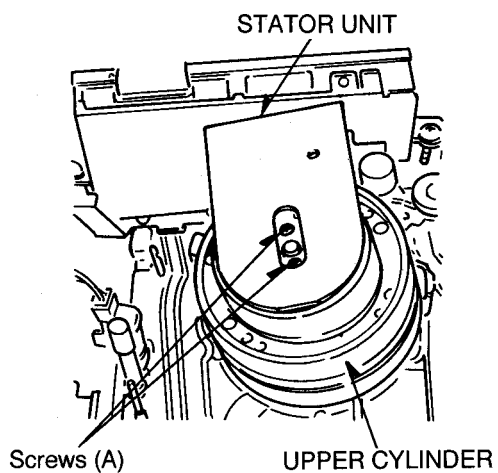


Fig. S4

D-2. UPPER CYLINDER ASSEMBLY

When reassembling, perform the steps in the reverse order.

- 1) Install the Cylinder Retainer so that the 2 holes on top of the Cylinder Retainer are at right angles with the Head Amp Shield.
- 2) Tighten the hex screw (C) (1.5mm) while pressing down on top of the Cylinder Retainer.

TOP VIEW

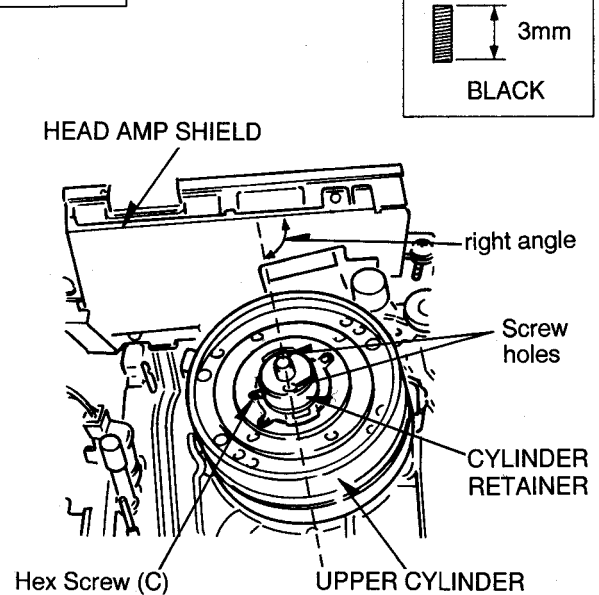


Fig. S5

- 3) Install the Cylinder Rotor Unit so that the inner hole of the Cylinder Rotor Unit fits to the small projection (D) on top of the Upper Cylinder.
- 4) Tighten 2 screws (B).

TOP VIEW

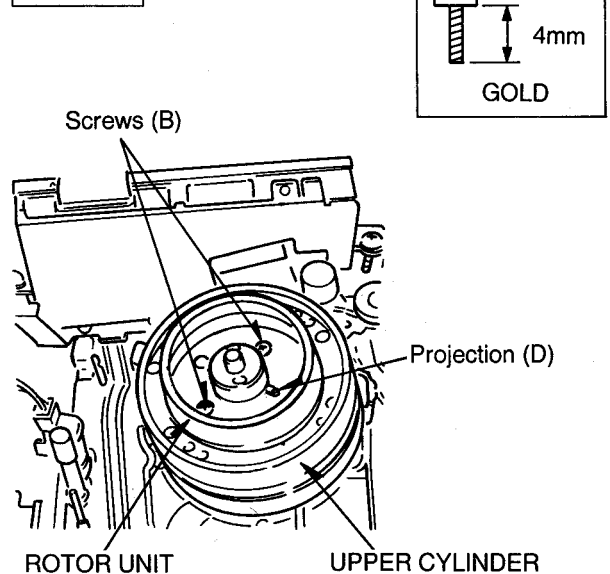


Fig. S6

- 5) Install the Cylinder Stator Unit so that the rear side of the Cylinder Stator C.B.A. is parallel with the Head Amp Shield.
- 6) Tighten 2 screws (A).

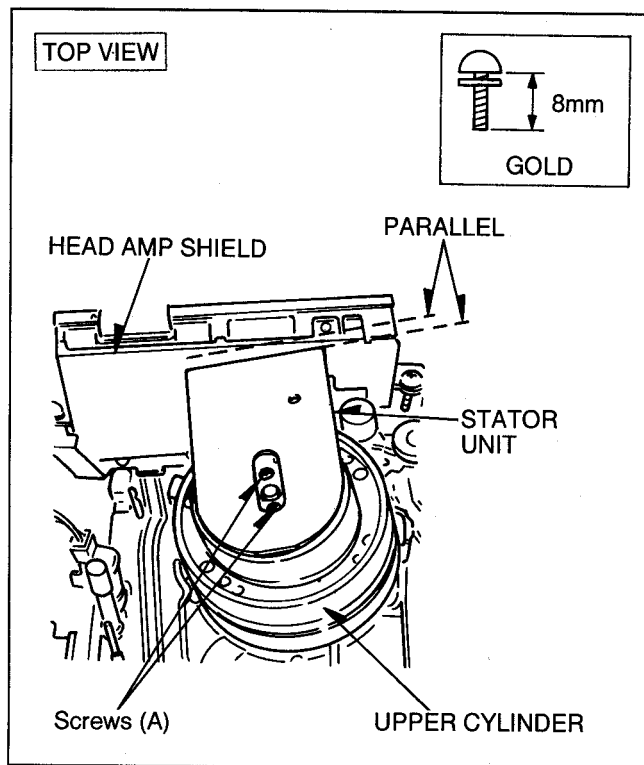


Fig. S7

- 7) Confirm the PG SHIFTER ADJUSTMENT with the alignment tape (PAL: VFJ8125H3F/NTSC: VFM8080HQFP) and adjust it if necessary.

E. CAPSTAN STATOR UNIT ASSEMBLY

When replacing the Capstan Stator Unit, the Centre Fixing Tool (VFK0851) must be used to fix the centre of Capstan Stator Unit.

Method:

- 1) Place the Capstan Stator Unit into position.
- 2) Loosely tighten the 3 screws.
- 3) Insert the Centre Fixing Tool (VFK0851) as shown in Fig. S8.
- 4) Tighten the 3 screws.
- 5) Remove the Centre Fixing Tool.

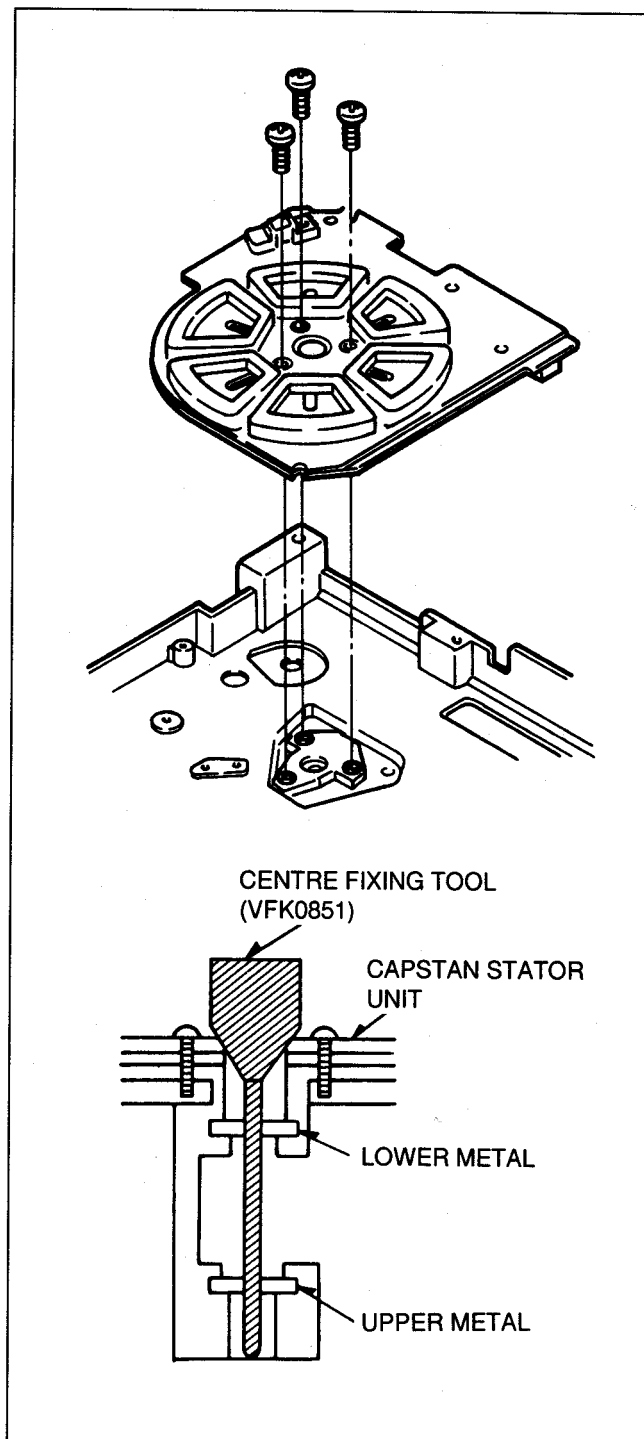


Fig. S8

F. EJECT OPERATION

The main cam gear rotates in the direction of the arrow. The projection (B) of the carriage connection gear engages with the recession (A) of the main cam gear. The carriage connection gear rotates in the direction of the arrow to perform the Eject operation.

<NOTE>

If the Eject operation is performed without the cassette carriage installed while repairing or making the mechanical phase alignment, the main cam gear will not engage with the carriage connection gear and will not rotate.

To perform the Eject operation with the cassette carriage not installed, it is necessary to rotate the carriage connection gear by hand in the direction of the arrow.

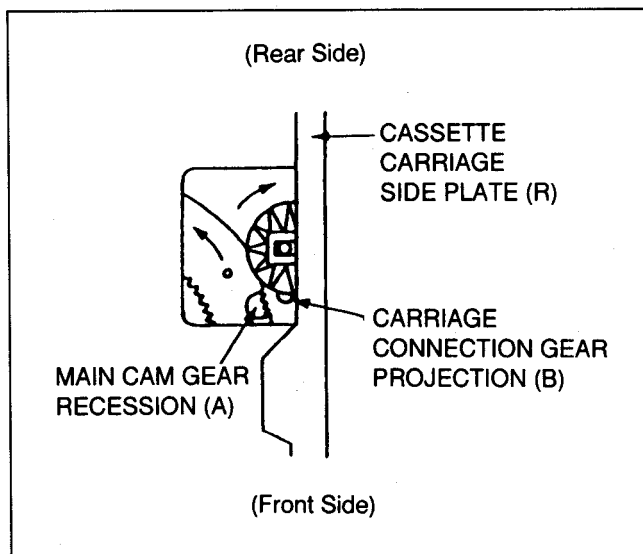


Fig. S9 Top View of Eject Operation

G. TAKE-UP PHOTO SENSOR OPERATION

Note the following matters for Take-up Photo Sensor Operation.

- 1) While servicing of the K-Mechanism, the unit will not operate properly if a strong light (ex, Fluorescent light, Spot light) falls on the Take-up Photo Sensor. In this case, cover the Take-up Photo Sensor to prevent the light from falling on it.
- 2) While servicing of the K-Mechanism with "Power On" and without cassette tape inserted, the Unit does not operate properly.

H. POWER TRANSISTOR SERVICING

When removing the connector of the Power Transistor, hold the Power Transistor by hand to prevent damage.

1-1-2. REMOVAL OF THE CASSETTE TAPE

If the electrical circuit is defective and the action of unloading and front unloading do not work properly, it is possible to remove the cassette manually. There are 2 methods of removing the cassette.

1. HAND OPERATION

- 1) Take out the mechanism from MAIN C.B.A.
- 2) Turn the Worm Gear manually, moving the Loading Post to the unloaded position.
- 3) Turn the Capstan Rotor Unit clockwise to take up the tape.
- 4) Turn the Worm Gear again to eject the cassette.

2. BATTERY OPERATION

- 1) Take out the mechanism from Main C.B.A.
- 2) Connect the Battery (Manganese-Type R6 (AA) 3pcs./ +4.5V) to the Loading Motor terminals as shown in Fig. S10.
- 3) After moving the Loading Post to the unloaded position, disconnect the battery to stop the motor.
- 4) Turn the Capstan Rotor Unit to clockwise to take up the tape.
- 5) Reconnect the battery to eject the cassette.

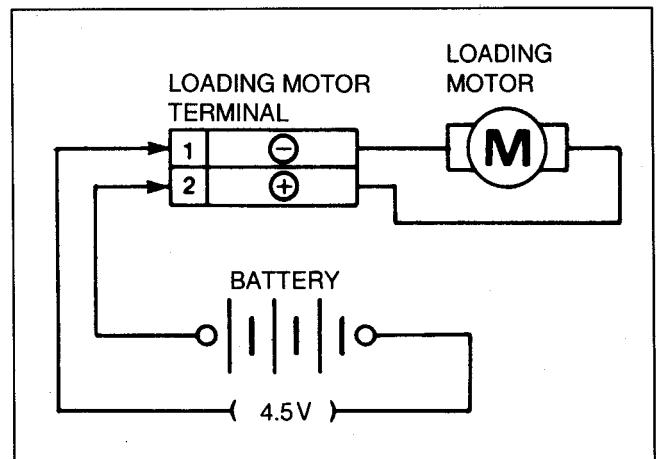


Fig. S10

If the cassette tape can not be removed by the above 2 methods, remove it by the following method.

- 1) Remove the Top Panel.
- 2) Remove the Front Panel Unit.
- 3) Lift up the Pinch Arm after removing spring.
- 4) Push the P5 Arm and remove the cassette tape from tape transportation (P1, P2, P3 and P5 Posts).
- 5) Turn the Capstan Rotor Unit to take up the tape.
- 6) Remove 1 screw from the Side Plate (R) Unit to disconnect the Rack Gear from the Carriage Connection Gear.
- 7) Take out the cassette tape from the Cassette Compartment.

1-1-3. FLAT CARD CABLE INSTLLATION

When installing the Flat Card Cable on the connector, install the Flat Card Cable with the cable contacts facing the connector contacts.

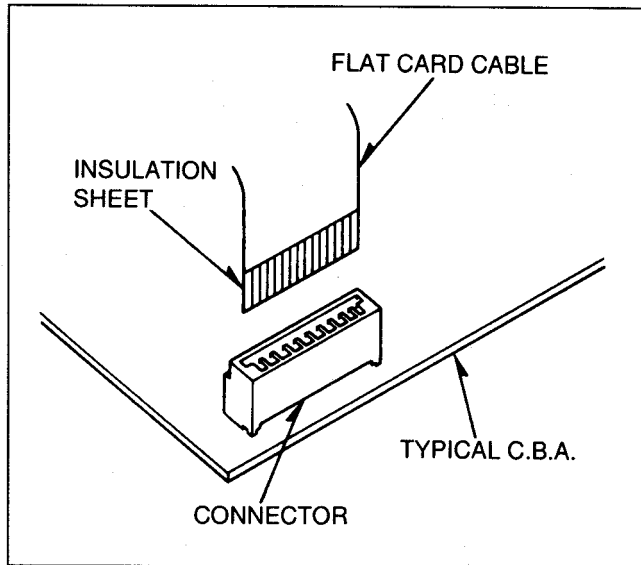


Fig. S11

1-1-4. CHANNEL MEMORY IC INITIALIZATION

When replacing the channel memory IC7502, its IC should be initialized.

- Note:1) It should be performed before tuning.
2) Do not turn off the power source during initialization or 1 second after.
3) Meaning of "INITIALIZATION" is to erase the "SKIP CH" In other words the number of channel position is the same as displayed channel.

Method:

- 1) Press the CH UP/DOWN Button so that the channel indicator indicates "3".
- 2) Connect a jumper wire between Pin 25 and Pin 43 of IC7501 for more than 1 second.
- 3) Channel indication changes from "3" to "1".

1-2. SELF-TEST INDICATION DISPLAY

This VTR has a self-diagnosis and display function. If the VTR detects trouble during installation or during use, one of the following Fault Indication Codes will automatically appear in the VTR display. Fault Indication codes are displayed in the form of a single English letter followed by two numbers, as for example "H01".

Note:1. The indication "U" is displayed on the FIP while power remains on.

2. Otherwise, the indication "H" or "F" is displayed on the FIP, and the power is automatically turned off. When the power is turned on again, the Fault Indication Code will disappear and the unit will return to normal display mode (either clock or counter).

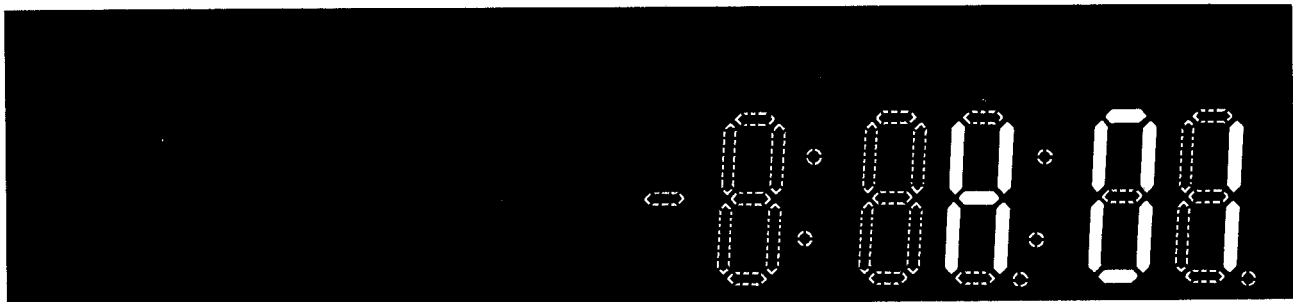
3. This Fault Indication Code will be stored in the Timer microprocessor even with the AC plug disconnected.

The two-digit number portion of the stored Fault Indication Code can be redisplayed in the FIP's "second" display position (the last 2 digits on the light) by placing the unit in Service Mode Number 2 when turning on Service Information Display as for example "01" or "02" etc.

If a second error occurs, only the most recent error will be displayed and stored.

4. To erase the stored Fault Indication Code data, press the FF, REW and EJECT buttons simultaneously for 5 seconds.

<FIP>



INDICATION	CAUSE	REMEDY/CHECK
U 10	Dew formation.	Wait until the indication disappears.
H 01	After cylinder lock is detected, the cylinder does not start rotating again even after tape unloading.	Check the cylinder-motor drive circuit.
H 02	Cassette tape is not wound up during tape unloading except Eject mode.	Check the capstan-motor drive circuit.
F 03	Mechanism locks during mode transition except Eject mode.	1. Check the loading-motor drive circuit. 2. Check the mechanism phase alignment. 3. Check the Mode Switch.
F 04	Mechanism locks during tape unloading.	1. Check the loading-motor drive circuit. 2. Check the mechanism phase alignment.
F 05	Cassette tape is not wound up during tape unloading in Eject mode.	1. Check the capstan-motor drive circuit. 2. Check the Supply/Take-up reel pulse.
F 06	Mechanism locks after tape unloading in Eject mode.	1. Check the loading-motor drive circuit. 2. Check the mechanism phase alignment for Cassette Holder Unit.
F 09	No serial clock transmission between IC6001 and IC7501.	Check the serial clock circuit.

Fig. T1 Self-Test Indication Display

1-3. SERVICE INFORMATION DISPLAY

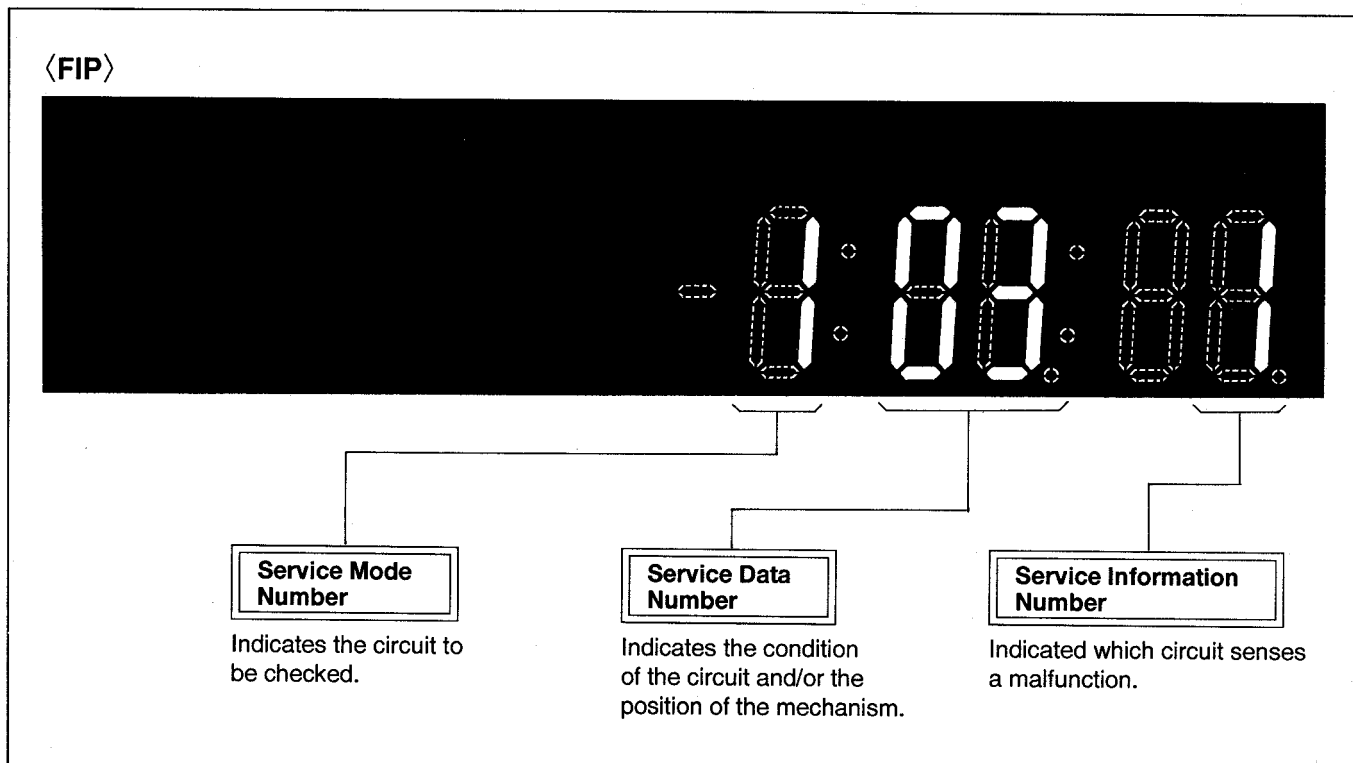


Fig. D1 Service Information Display

1-3-1. Purpose of Service Information Display

This information aids trouble shooting by indicating the source of the malfunction. The service mode number & service data number are used by the technician during repair while the service information can be used by the consumer to diagnose malfunctions allowing the technician to provide a more accurate repair cost estimate and reduce repair time.

MODE 1 : Checks tape protection circuit
MODE 2 : Checks tape transport mechanism
MODE 3 : Checks mode switching operation
MODE 4 : Checks control buttons
MODE 5 : Checks capstan motor
MODE 6 : Checks cylinder motor
MODE 7 : Checks loading/unloading operation
MODE 8 : Not used.

(The MODE 8 is displayed only when connecting a jumper wire between TPSEV and TPTEST.)

1-3-2. Turning on Service Information Display

There are two ways to turn on the Service Information Display.

- (1) Press the "FF", "REW" and "EJECT" buttons simultaneously.
- (2) Connecting a Jumper wire between TPSEV and TPTEST will display the service information indefinitely.

The second and third digits are service data which indicate the condition of the circuit or mechanism being checked.

The fourth digit is the service Information display. It is to be used by the consumer to help determine the source of a malfunction. The service information display operates independently of the service modes and stores the fault indication in memory for as long as AC power is supplied. (except service mode number 2, 7 and 8)

In the Service Information Display, there are four digits divided into 3 functions.

The first digit indicates which of the 8 service modes that the unit is currently in.

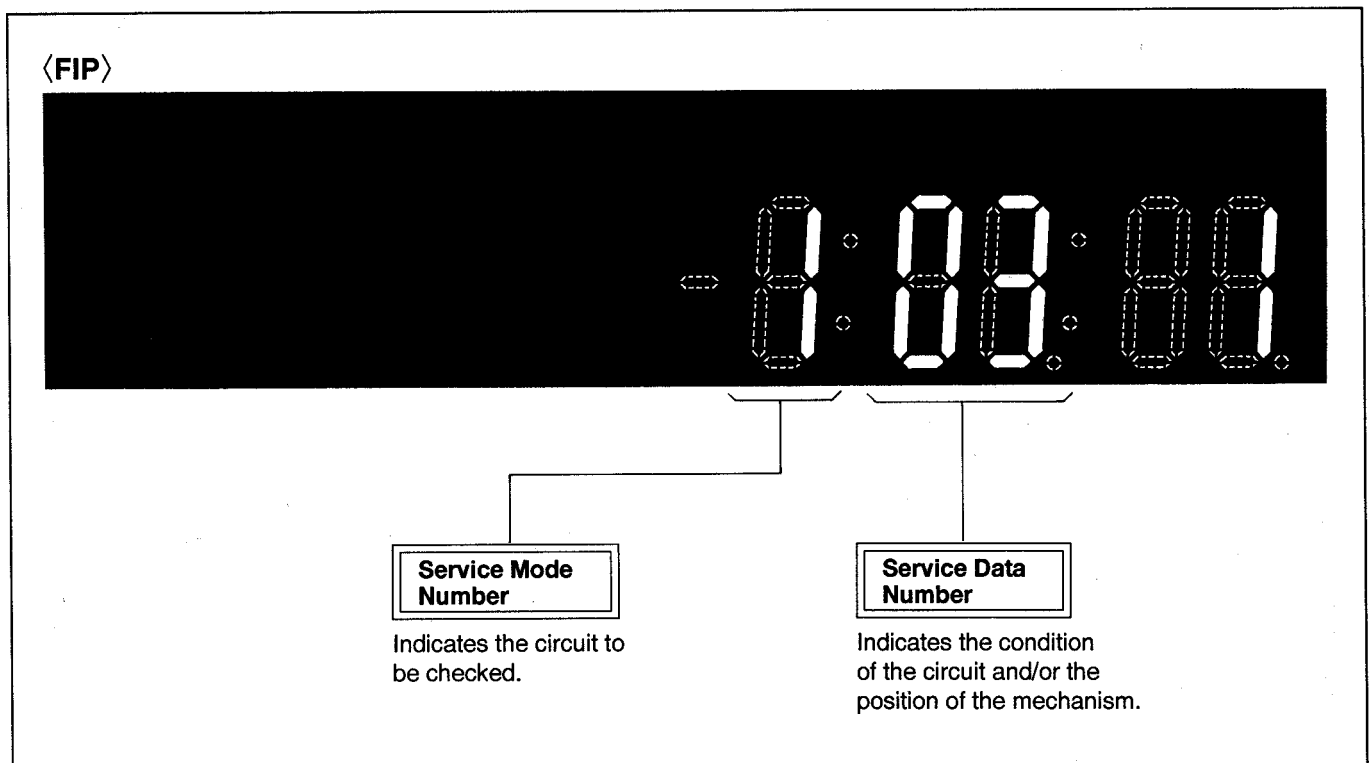


Fig. D2 Service Mode Number and Service Data Number on S.I.D.

- (1) Turn on Service Information Display.
- (2) To change Service Modes press the "FF", "REW" and "EJECT" buttons simultaneously.
- (3) Mode 1: Checks that the Sensor LED, Supply & Take-up Sensor circuits check the circuits by blocking the light from the Sensor LED to either or both Supply & Take-up Sensors. When the light is blocked to both sensors, "00" should be indicated on the service data number.
When the light is blocked to the supply sensor, "01" should be indicated.
- (4) Mode 2: Checks the mode switch circuit while indicating mechanism position. Service Data Numbers indicate the position of the mode switch and there by the mechanism position.
- (5) Mode 3: Checks that mode switch circuit operations have been completed. Service Data Number should indicate "00" after each mechanism operation is completed.
- (6) Mode 4: Checks the operation circuit. Indicates if IC6001 receives the operating commands from the mode buttons and/or remote controller.

- (7) Mode 5: Checks the capstan motor circuit. Indicates if the IC6001 has received the command to rotate the capstan motor.
- (8) Mode 6: Checks the cylinder motor circuit. IC6001 has received the command to rotate the cylinder motor.
- (9) Mode 7: Checks the Loading/Unloading Operation. The Loading Motor rotates for loading operation when the "PLAY" button is pressed. The Loading Motor rotates for unloading operation when the "STOP" button is pressed. This mode can be displayed indefinitely until the OPERATE button is pressed.
- (10) Mode 8: Not used.

<NOTE>

Refer to Fig. D5 for details of Service Data Numbers.

1-3-4. Service Information Number

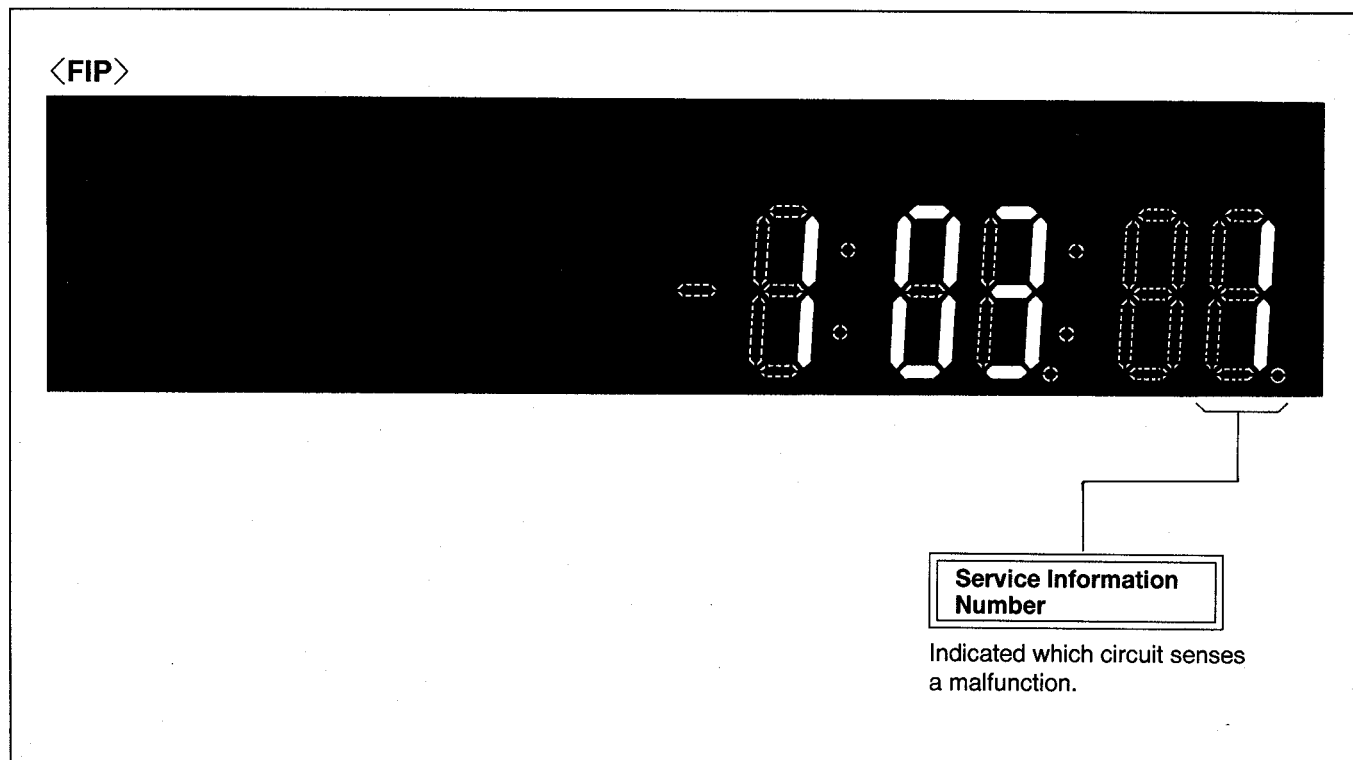


Fig. D3 Service Information Number on S.I.D.

Refer to Fig. D4 for details of Service Information Number.

Note:

The Service Information Number display is independent of the service mode display.

The Service Information Number will be stored as long as AC power is supplied.

If a second error occurs, only the most recent error will be displayed.

(except service mode number 2, 7 and 8)

Service Information Number	Malfunction
0	Normal (No problem)
1	Cylinder stop
2	Tape reel stop
3	Stop at position other than 4 or 6
4	Stop during unloading
5	Faulty capstan rotation
6	Stop during Cassette-In/Eject operation

Fig. D4 Detail Service Information Numbers





Service mode Number	Note for checking Service Data Numbers	Service Data Numbers	Indication	Remarks
1		00	No light detected at either sensor.	Tape not required.
		01	Tape Beginning. Light to Supply Photo Sensor is blocked.	
		02	Tape End. Light to Take-up Photo Sensor is blocked.	
		03	Light detected at both sensors.	
2		00	EJECT	Tape Required. *1 : STOP3; The Pinch Roller is on the capstan motor shaft. *2 : STOP; The Pinch Roller is off the capstan motor shaft. Refer to Fig. D7 to Check mechanism Position and timing.
		01	Cassette-down	
		02	REV, REV SLOW	
		03	Loading/Unloading	
		04	PLAY/REC, STILL/PAUSE, CUE, FWD SLOW, STOP3 *1	
		05	STOP *2	
		06	FF/REW	
		07	Intermediate position	
3	Disregard service data displayed until mechanism operation is completed. Then the display should indicate "00".	00	Any display other than "00" indicates a fault in the mode switch circuit or system.	Tape Required.
4	Display only when the operating button is pressed.	Refer to Fig. D6		Tape not required.
5	Left digit only, disregard Right digit display.		8, 9, u, A, -, n, L, and no display indicate that the Capstan motor "PLAY" command received by IC6001.	Tape required. If a symbol other than those listed is displayed, a malfunction in that circuit is indicated.
	Right digit only, disregard left digit display.		1, 2, 3, 4, 5, 6, 7, indicate that the Capstan motor "CUE, FF, Forward Slow" commands received by IC6001.	
	Right digit only, disregard left digit display.		8, 9, u, A, -, n, L, and no display indicate that the Capstan motor "Reverse, Rew, Reverse Slow" commands received by IC6001.	
6	Left digit only, disregard Right digit display.		1, 3, 5, 7, 9, A, n and no display indicate that the cylinder motor "ON" command received by IC6001.	Tape required. If a symbol other than those listed is displayed, a malfunction in that circuit is indicated.

Fig. D5 Service Data Display and Indication

SERVICE DATA NUMBERS	MODE BUTTONS	SERVICE DATA NUMBERS	MODE BUTTONS
3n	OPERATE	06	PAUSE/STILL
01	EJECT	54	RESET
-0	INPUT SELECT	5	ZERO STOP
—	SPEED	49,40	INDEX
34,35	^V,+-	81,82	TRACKING (+, -)/V-LOCK
—	CANCEL	—	PROG.
—	MENU	57	OSD
84	TIMER REC	00	STOP
08	REC	03,02	FF, REW
—	ENTER	55	DISPLAY
—	SHOW VIEW/G-CODE	00	PLAY

Fig. D6. Service Data Display for Service mode 4

1-3-5. Timing Chart from Mode SW to System control IC6001

System control IC6001 senses the mechanism position through the Mode SW.
Fig. D7 shows the timing for Service Mode Number 2.

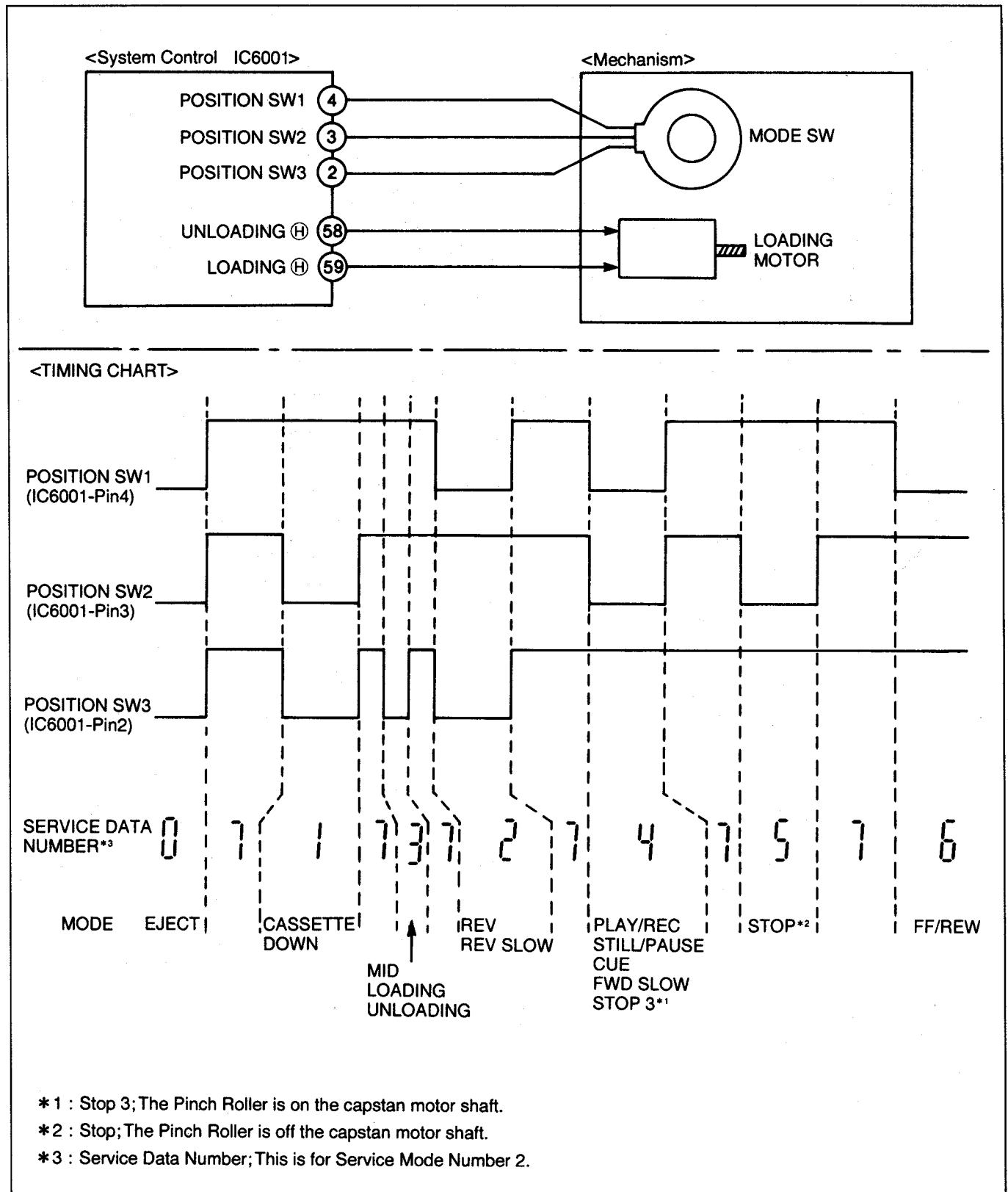


Fig. D7 Timing Chart of Mode SW

1-3-6. Input/Output Chart for IC6001

Pin Number	Input/Output	Port Name	Function																																				
1	I	SAFETY TAB	When inserting the cassette tape with safety tab, this port is low. When there is no safety tab, this port is high to prevent recording.																																				
2	I	POSITION SW 3	<table><tr><td>P. SW 3</td><td>P. SW 2</td><td>P. SW 1</td><td>Position (Mode) Name</td></tr><tr><td>O</td><td>O</td><td>O</td><td>EJECT</td></tr><tr><td>O</td><td>O</td><td>I</td><td>CASSETTE DOWN</td></tr><tr><td>O</td><td>I</td><td>O</td><td>REV, REV SLOW</td></tr><tr><td>O</td><td>I</td><td>I</td><td>MID (LOADING/UNLOADING)</td></tr><tr><td>I</td><td>O</td><td>O</td><td>PLAY/REC, STILL/PAUSE, CUE, FWD SLOW STOP3 *1</td></tr><tr><td>I</td><td>O</td><td>I</td><td>STOP</td></tr><tr><td>I</td><td>I</td><td>O</td><td>FF/REW</td></tr><tr><td>I</td><td>I</td><td>I</td><td>INTERMEDIATE</td></tr></table>	P. SW 3	P. SW 2	P. SW 1	Position (Mode) Name	O	O	O	EJECT	O	O	I	CASSETTE DOWN	O	I	O	REV, REV SLOW	O	I	I	MID (LOADING/UNLOADING)	I	O	O	PLAY/REC, STILL/PAUSE, CUE, FWD SLOW STOP3 *1	I	O	I	STOP	I	I	O	FF/REW	I	I	I	INTERMEDIATE
P. SW 3	P. SW 2	P. SW 1	Position (Mode) Name																																				
O	O	O	EJECT																																				
O	O	I	CASSETTE DOWN																																				
O	I	O	REV, REV SLOW																																				
O	I	I	MID (LOADING/UNLOADING)																																				
I	O	O	PLAY/REC, STILL/PAUSE, CUE, FWD SLOW STOP3 *1																																				
I	O	I	STOP																																				
I	I	O	FF/REW																																				
I	I	I	INTERMEDIATE																																				
3	I	POSITION SW 2																																					
4	I	POSITION SW 1																																					
(*1) The Pinch Roller is on the capstan motor shaft.																																							
5	I	SUPPLY REEL PULSE	Supply Reel Pulse Input (For detecting tape remaining)																																				
6	I	NORMAL/ SERVICE/TEST	Service Mode Setting Normal Mode : High Service Mode : Middle Test Mode : Low																																				
7	I	DEW	When Dew is detected, this port is middle. Normally, this port is low.																																				
8	I	TEST	Not used (Low setting)																																				
9	I	ENVELOPE SELECT	The playback envelope video signal level is detected at this input to select the video head in the special playback modes.																																				
10	O	ROTARY SW	This signal is supplied to the chrominance circuit to perform the phase rotation.																																				
12	O	HEAD AMP SWITCH	This signal is supplied to the head amp circuit to switch the video head, SP or LP.																																				
14	O	ARTIFICIAL V/H/N	Artificial Vertical Sync Signal is supplied to video circuit to stabilize the picture in the special playback modes.																																				
17	I	TAKE-UP PHOTO	Take-up Side Photo Sensor Input (For detecting tape beginning)																																				
18	I	SUPPLY PHOTO	Supply Side Photo Sensor Input (For detecting tape end.)																																				
19	I	TAKE-UP REEL	Take-up Reel Pulse Input (For detecting tape remaining and reel (Cap.) lock.																																				
20	O	SP/LP	Not used																																				
45	O	AUDIO H. SW	Not used																																				
46	O	SERIAL CLOCK SELECT	Not used																																				
47	O	SYSTEM SEL	Not used																																				
48	O	L CH/R CH	Not used																																				
49	O	BIL/STEREO	Not used																																				
50	O	MESECAM (H)	MESECAM: H																																				
51	O	NTSC/PAL	Not used																																				

(*1) The Pinch Roller is on the capstan motor shaft.

Pin Number	Input/Output	Port Name	Function
52	I	SP/LP	Not used
53	O	MONO 1/2	Not used
54	O	SENSOR LED ON (L)	When turning on the Sensor LED, this port is low. 1) STOP Mode: No lit. 2) FF, REW, CUE, REV Modes: DC is lit. 3) EJECT Mode: Pulse blinking. (Cycle: 320 [msec])
55	O	VOLTAGE CHANGE (H)	When increasing the drive torque of loading motor to perform the FF/REW mode, this port is low.
56	O	CANAL	Not used
57	O	NTSC M (H)	Not used
58	O	UNLOADING (H)	When unloading, this port is high.
59	O	LOADING (H)	When loading, this port is high.
60	O	HEAD SW	This signal is supplied to the head amp circuit to switch the video head, R or L.
61	O	CURRENT LIMIT	Capstan torque limiter output
62	O	CAP R/S/F	Capstan Rotation Direction Output Reverse : High Stop : Middle Forward : Low
63	O	SERIAL CLOCK	Serial Clock Output
64	I/O	SERIAL DATA	Serial Data In/Out
65	O	SP (H)	Tape Speed Output SP : High LP : Low
66	O	DELAYED REC (H)	When the video goes to the recording mode after a delay from the video recording command, this port is high.
67	O	DELAYED AUDIO REC (H)	When the audio goes to the recording mode after a delay from the audio recording command, this port is high.
68	O	PAL I (H)	When selecting the PAL-I system during tuner preset.
69	O	REC (H)	When the video goes to the recording mode, this port is high.
70	O	NTSC (L)	System Output NTSC : Low PAL : High
71	O	AUDIO MUTE (H)	When the audio goes to the mute mode, this is high.
72	O	CAPSTAN REVERSE (H)	Not used
73	O	VTR (L)	Not used
74	O	A. DUB (H)	When audio dubbing mode, this is high.
75	O	CURRENT EMPHASIS (H)	When the servo goes to the edit mode, this is high.
76	O	FF/REW (L)	When the servo goes to the FF/REW mode, this is low.
77	O	FM MUTE (H)	Not used

Pin Number	Input/Output	Port Name	Function
78	O	VIDEO EE (L)	When the video goes to the EE mode, this is low.
79	O	TRICK (L)	When the video goes to the special playback (CUE, REV, SLOW, STILL) mode, this is low.
80	O	POWER OFF (H)	Power ON/OFF Control is low when the power switch is turned on.
82	I	OSC 1	Oscillator input
83	O	OSC 2	Oscillator output
84	I	RESET (L)	When resetting the IC6001, this port is low.

SECTION 2

ADJUSTMENT PROCEDURES

2-1. DISASSEMBLY METHOD

2-1-1. DISASSEMBLY FLOW CHART

This flow chart indicates disassembly steps of the cabinet parts and the circuit boards in order to find the necessary items for servicing.

When reassembling, perform the steps in the reverse order.

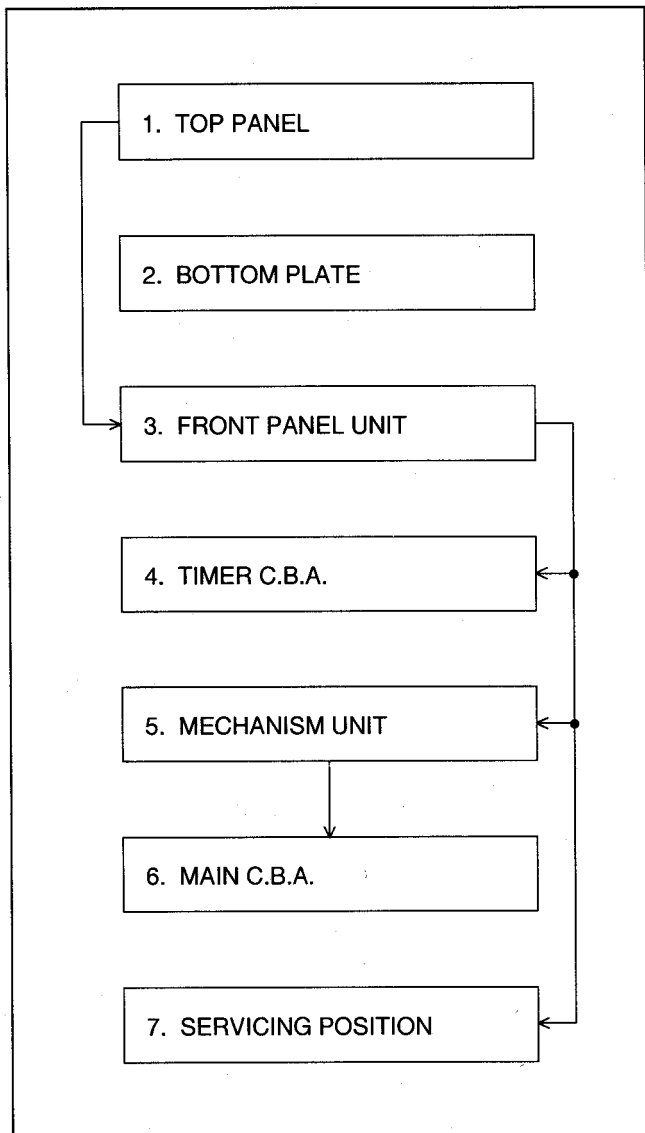


Fig. D1

2-1-2. DETAIL OF DISASSEMBLY METHOD

1. REMOVAL OF THE TOP PANEL

Remove..... 2 Screws (A)

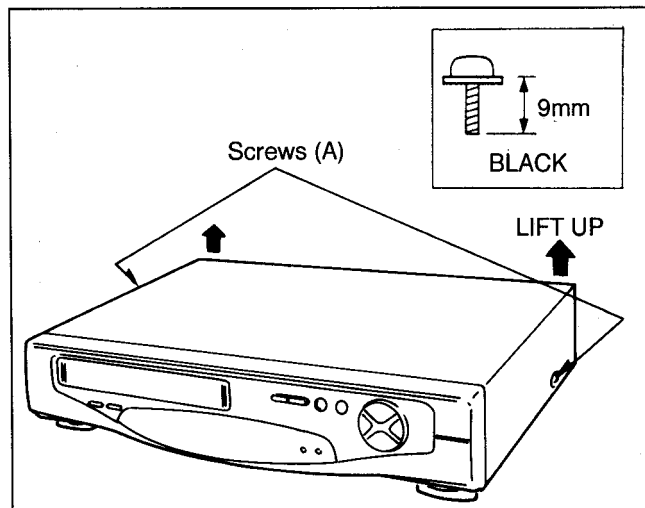


Fig. D2

2. REMOVAL OF THE BOTTOM PLATE

Remove..... Screw (B)

Remove..... 2 Screws (C)

Unlock 4 tabs (D)

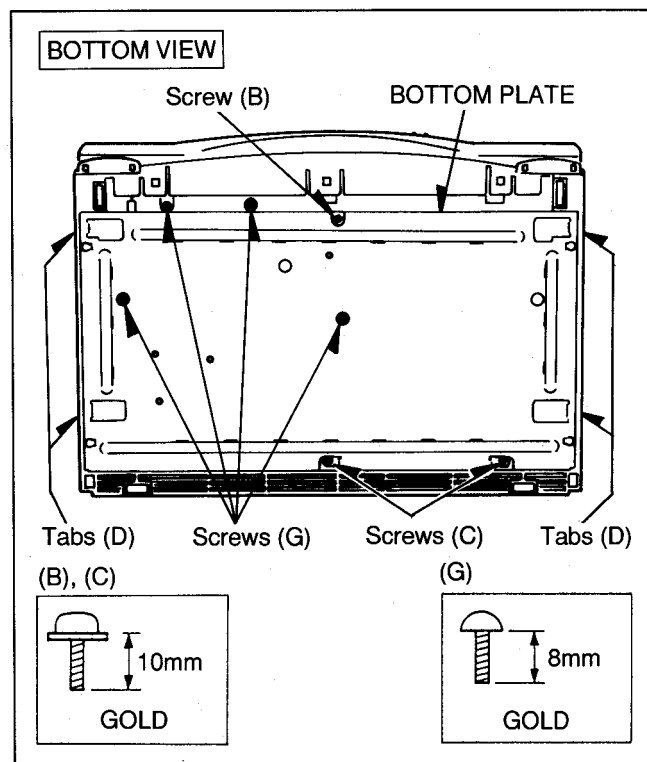


Fig. D3

3. REMOVAL OF THE FRONT PANEL UNIT

Remove Screw (D)
Unlock 8 Tabs (E)

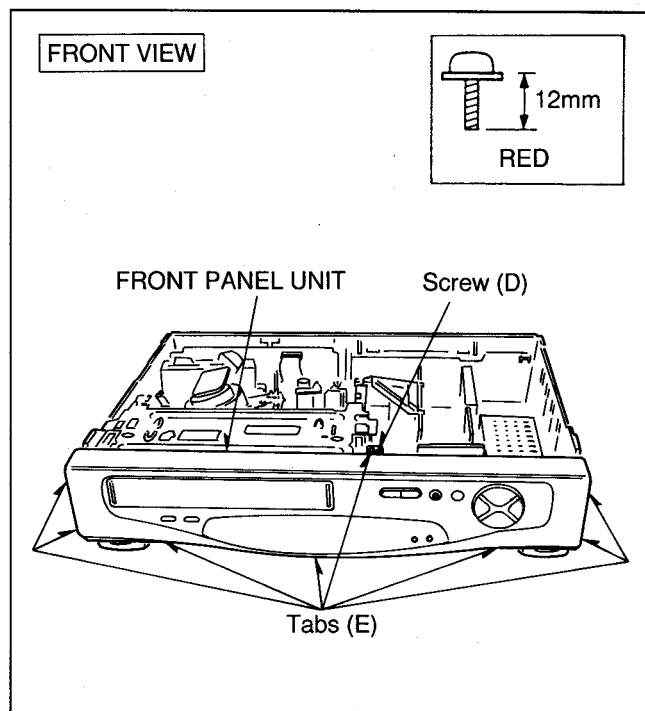


Fig. D4

4. REMOVAL OF THE TIMER C.B.A.

Unlock 5 Tabs (F)

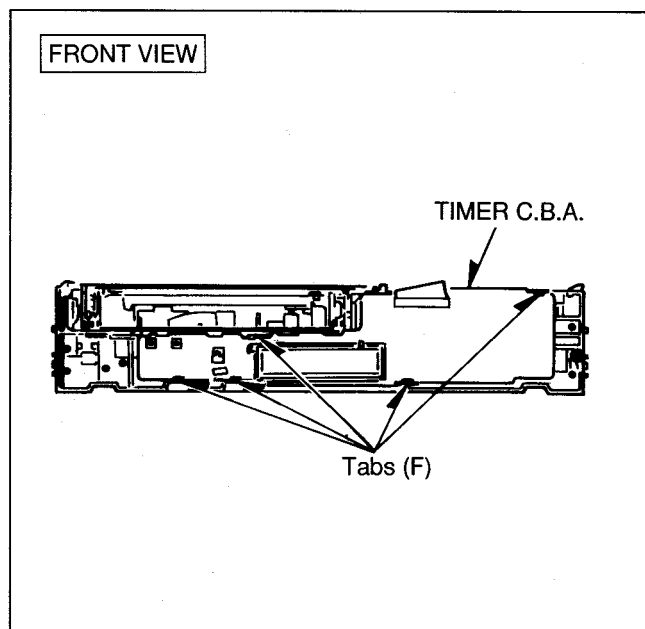


Fig. D5

5. REMOVAL OF THE MECHANISM UNIT

Remove 3 Screws (G) [Fig. D3]
Remove 3 Screws (H)
Remove Screw (I)
Unlock Tab (J) and L/C PACK HOLDER

6. REMOVAL OF THE MAIN C.B.A.

Remove 2 Screws (C) [Fig. D3]
Unlock 7 Tabs (K)

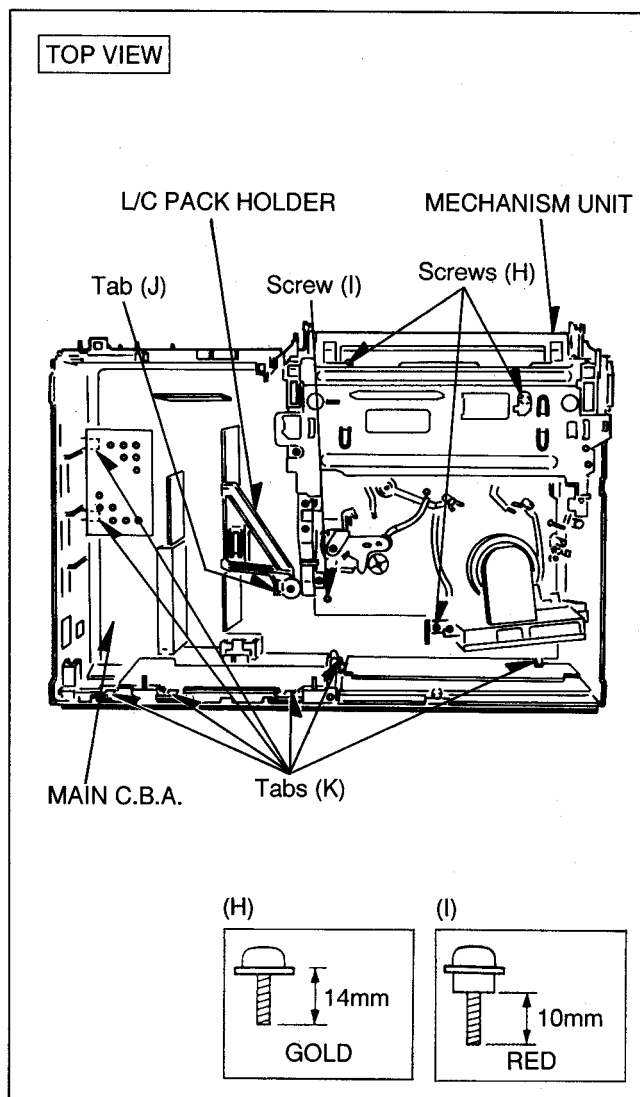


Fig. D6

7. SERVICING POSITION

- Remove..... 2 Screws (C) [Fig. D3]
- Remove..... 3 Screws (H)
- Remove..... Screw (I)
- Unlock Tab (J) and L/C PACK HOLDER
- Unlock 7 Tabs (K)

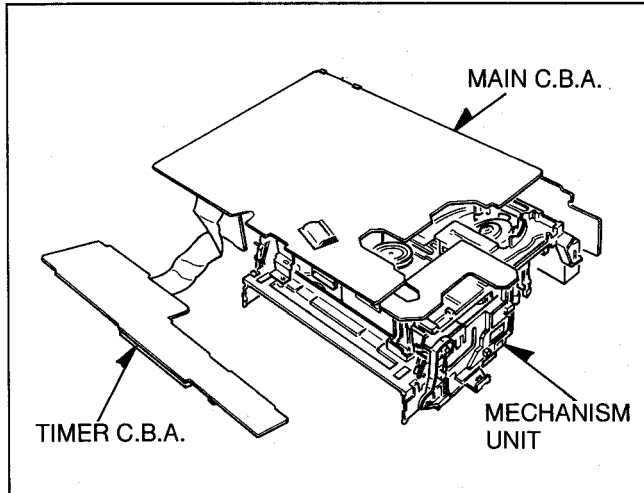


Fig. D7

2-2. MECHANICAL ADJUSTMENT PROCEDURES

The mechanical chassis of this model is the K Mechanical Chassis.

Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VRD9307M131)

CAUTIONS:

To make a Adjustment Mode for Tape Interchangeability, there are two ways to turn off the Auto Tracking.

- (1) Connect a jumper wire (K2501) which has been cut as shown in Fig. M1.
After finishing the adjustment, disconnect the jumper wire.
- (2) Press the "FF", "REW" and "EJECT" buttons 3 times to set the Service Mode 2.

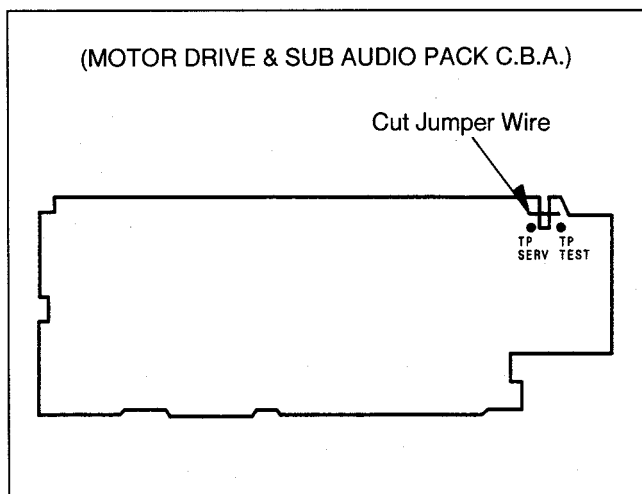


Fig. M1

2-3. DISASSEMBLY PROCEDURES OF MECHANISM

The mechanical chassis of this model is the K Mechanical Chassis.

Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VRD9307M131)

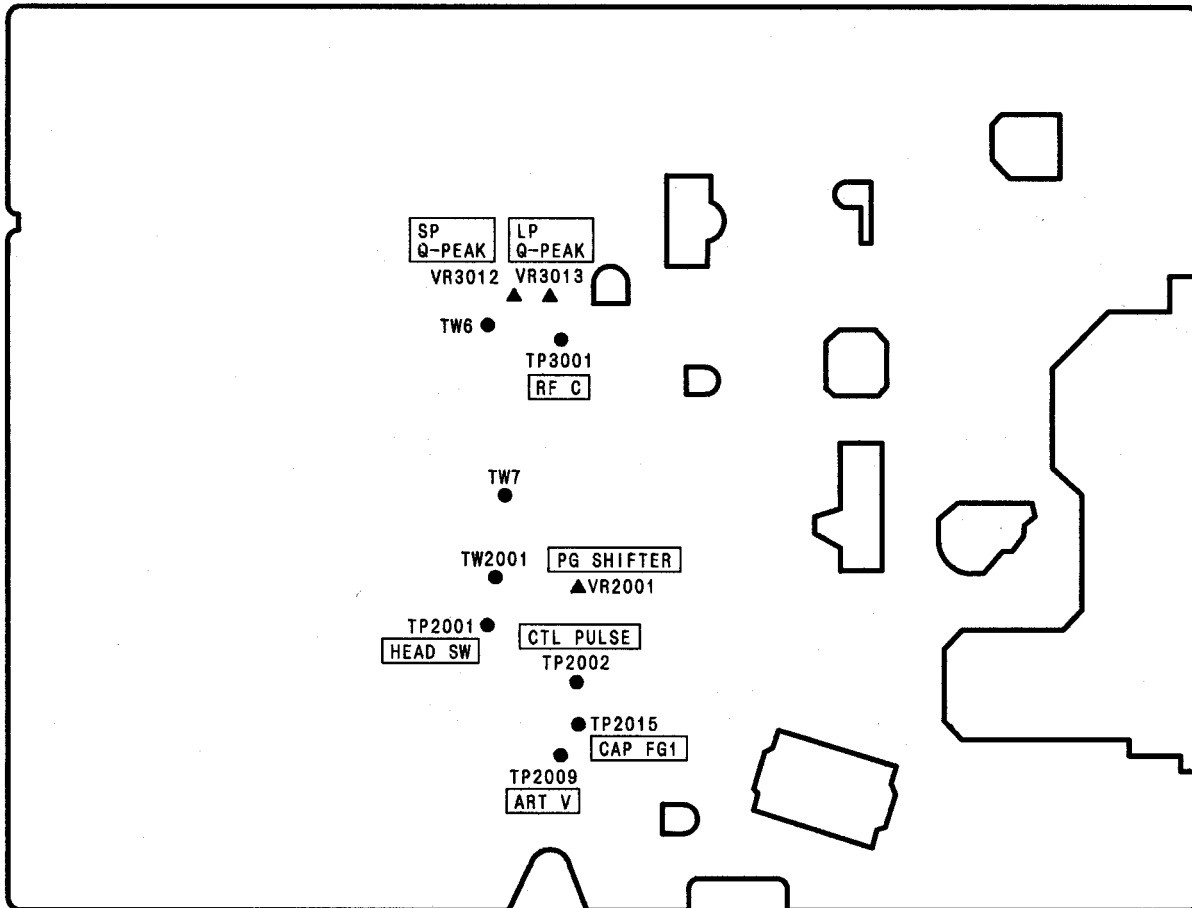
2-4. ASSEMBLY PROCEDURES OF MECHANISM

The mechanical chassis of this model is the K Mechanical Chassis.

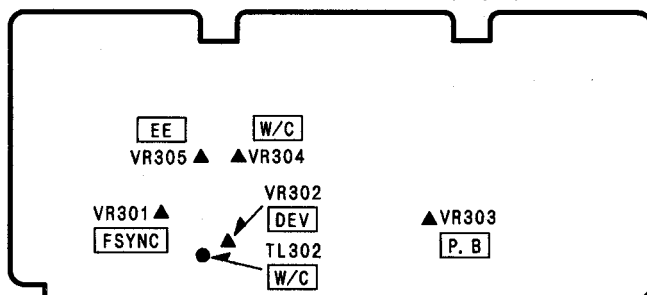
Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VRD9307M131)

LOCATION OF TEST POINTS & CONTROLS

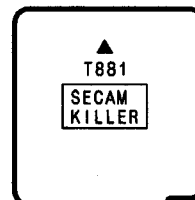
MAIN C. B. A.



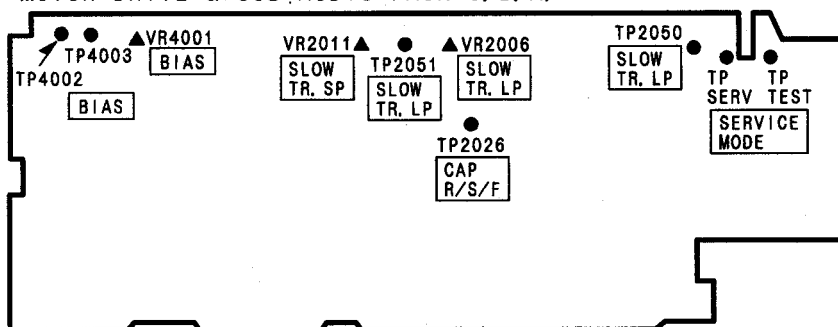
LUMINANCE/CHROMINANCE PACK C. B. A.



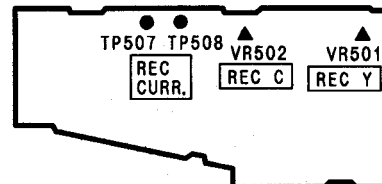
DDR SECAM PACK C. B. A.



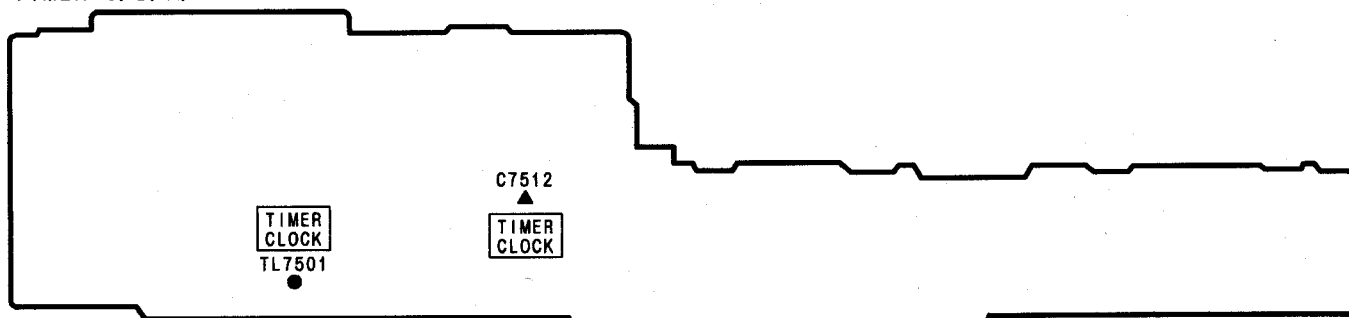
MOTOR DRIVE & SUB AUDIO PACK C. B. A.



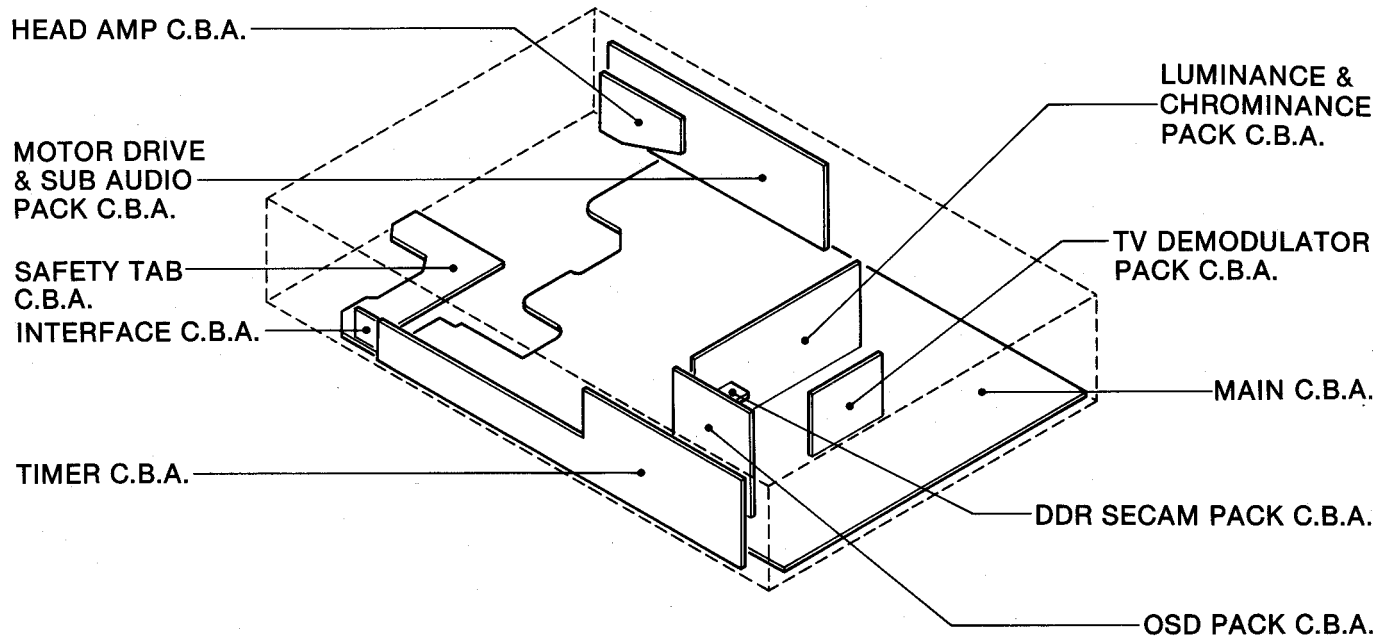
HEAD AMP C. B. A.



TIMER C. B. A.



CIRCUIT BOARD LAYOUT



2-5. ELECTRICAL ADJUSTMENT PROCEDURES

This section provides complete adjustment procedures required for electric circuits of VHS Video Cassette Recorders.

2-5-1. TEST EQUIPMENT

To perform electrical adjustments following equipment is required.

1. Dual-Trace Oscilloscope. (More than 35MHz)
Voltage Range: 0.005-5V/div
Frequency Range: DC-35MHz
Probes: 10:1 OR 1:1
2. Frequency Counter.
Frequency Range: 0-10MHz
Probes: 1:1
3. Universal Counter.
4. Digital Volt Meter. (D.V.M.)
5. Video Sweep Generator.
6. Sine Wave Generator.
7. Video Pattern Generator.
8. VHS Alignment Tape. (VFJ8125H3F)
9. VHS Blank Tape.
10. Monitor.
11. Plastic Tip Driver.
12. DC Power Supply.

2-5-2. PREPARATION

During adjustment, set each selector as follows: when no indication in the procedure.

TEST SIGNAL SW (REAR)OFF
TAPE SPEEDSP
NTSC SELECT SWNTSC P.B.
CHANNEL.....AV

2-5-3. HOW TO READ ADJUSTMENT PROCEDURES

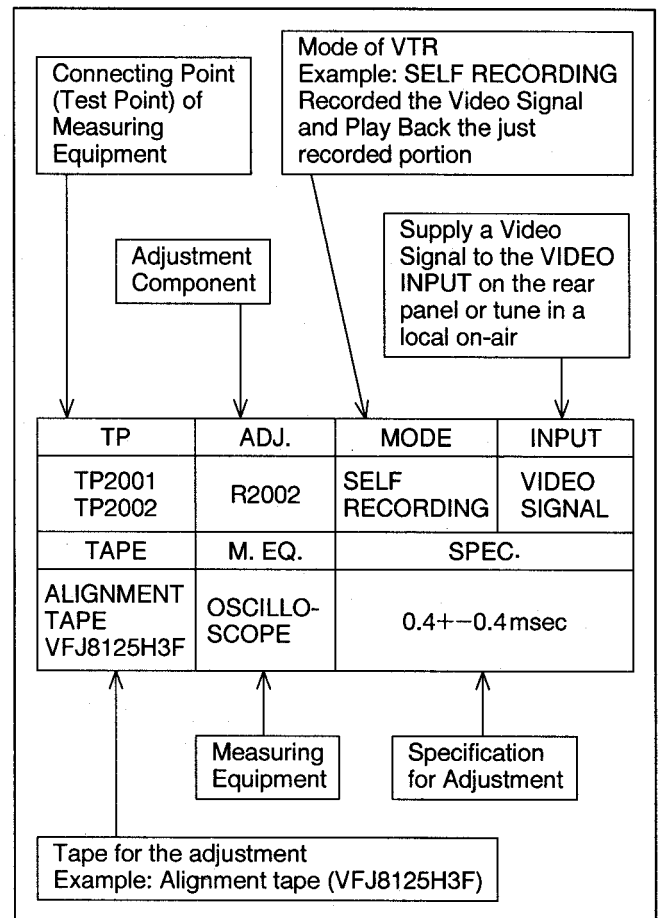


Fig. E1

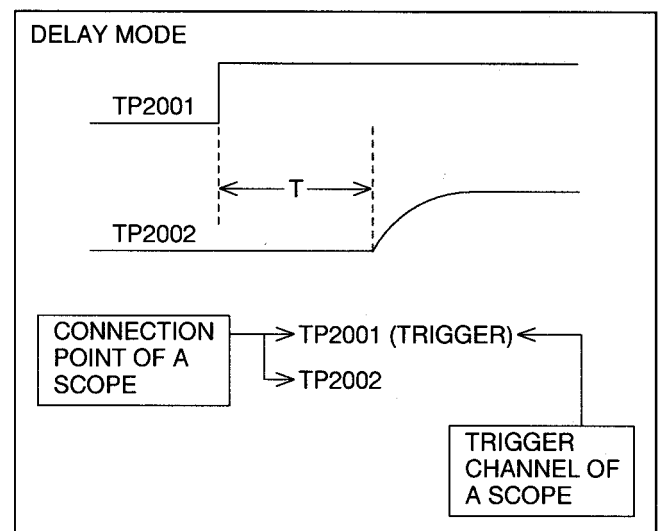


Fig. E2

SERVO SECTION

2-5-4. PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TW2001 VIDEO OUT	VR2001	PLAYBACK	
TAPE	M. EQ.	SPEC.	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO- SCOPE	7.0+ \pm 0.5 (H)	

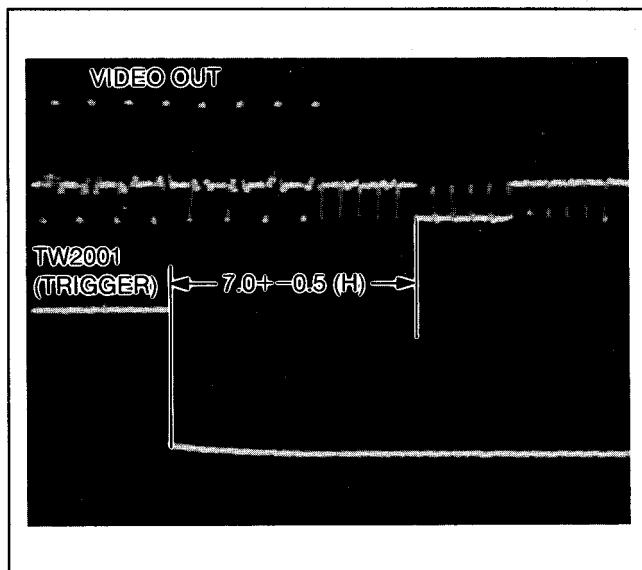


Fig. E3

2-5-5. SLOW TRACKING ADJUSTMENT

TP	ADJ.	MODE	INPUT
MONITOR SCREEN	VR2011 (SP) VR2006 (LP)	(SELF RECORD) SLOW	CCIR PATTERN
TAPE	M. EQ.	SPEC.	
BLANK TAPE	MONITOR TV	Noise bar on the monitor screen is minimized. (Shown in Fig. E5)	

- Note: 1. Before this adjustment, connect a jumper wire which has been cut as shown in Fig. E4 or set the service mode 2 (refer to section 2-2).
2. After connecting a jumper wire, press the TRACKING (+) and (-) buttons on the Remote Controller simultaneously to set the tracking to centre fix position.
3. After this adjustment, disconnect a jumper wire.

(MOTOR DRIVE & SUB AUDIO PACK C.B.A.)

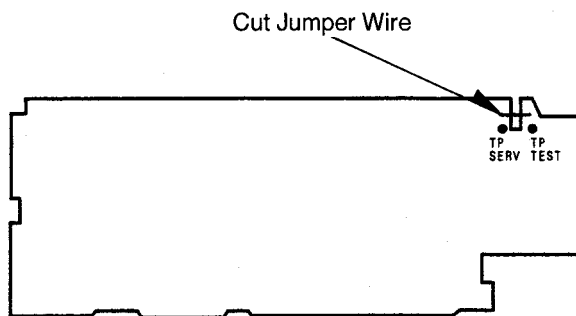


Fig. E4

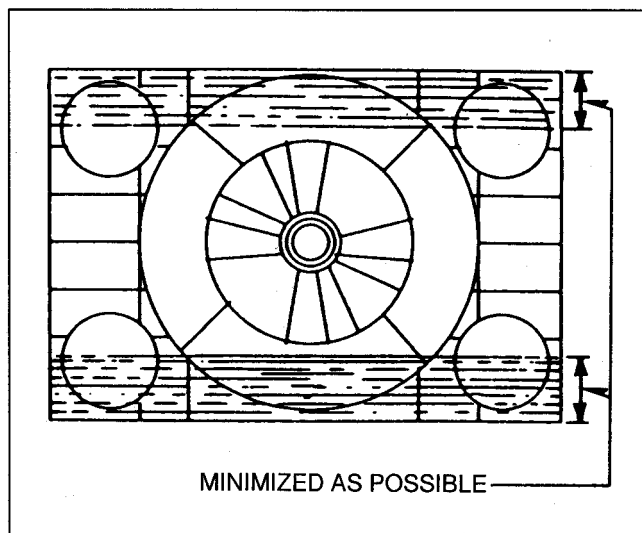


Fig. E5

LUMINANCE & CHROMINANCE SECTION

2-5-6. RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP507 (HOT) TP508 (GND)	VR501 (Y) VR502 (C)	SP RECORDING	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO- SCOPE	Y=130+-5 (mVp-p) C=32+-2 (mVp-p)	

- Note: 1. Adjust the Luminance level so that the peak level of V-SYNC is 130 ± 5 mVp-p.
2. When adjusting the Chrominance level, Supply +5V DC to Pin 6 of PP3001 to eliminate Luminance component.

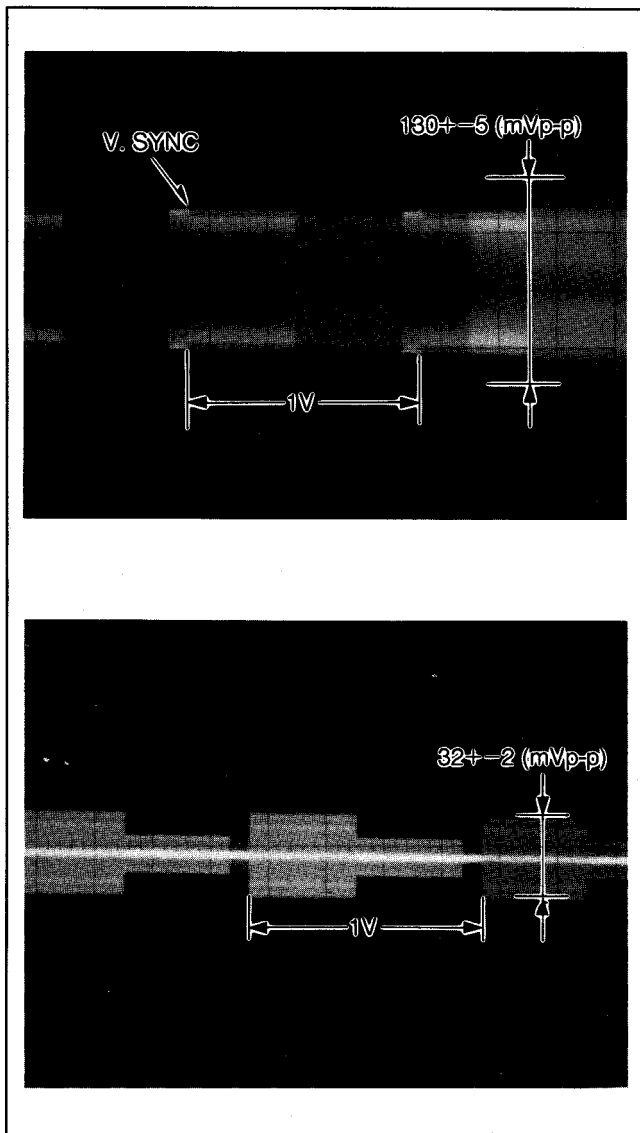


Fig. E6

2-5-7. VIDEO FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT	VR3012 (SP) VR3013 (LP)	SP/LP (SELF RECORD) PLAYBACK	VIDEO SWEEP SIGNAL (Shown in Fig. E7)
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO- SCOPE/ VIDEO SWEEP GENERATOR	SP: 0 ± 1 (dB) (90-110%) LP: 0 ± 1 (dB) (90-110%)	

- Note: 1. Set the Video Sweep Signal as shown in Fig. E7.
2. Supply 5.05 ± 0.15 V DC to TW6 through the resistor (1 Kohm).
3. Supply 5.05 ± 0.15 V DC to TW7 through the resistor (68 Kohm).

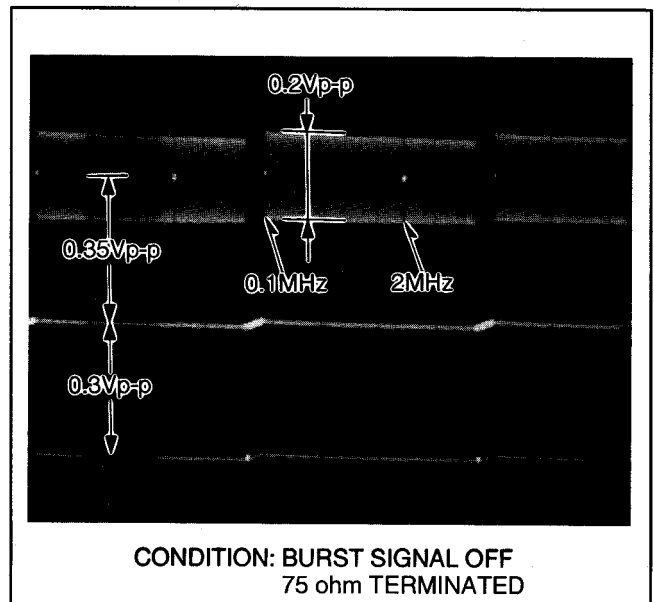


Fig. E7

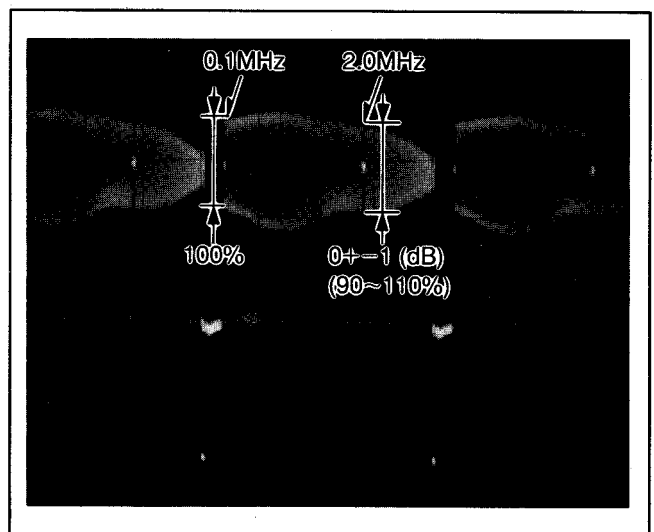


Fig. E8

2-5-8. SECAM KILLER ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC881-11	T881	SP RECORDING	SECAM COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLOSCOPE	MINIMIZE AMPLITUDE ("A" PORTION: NEGATIVE PEAK)	

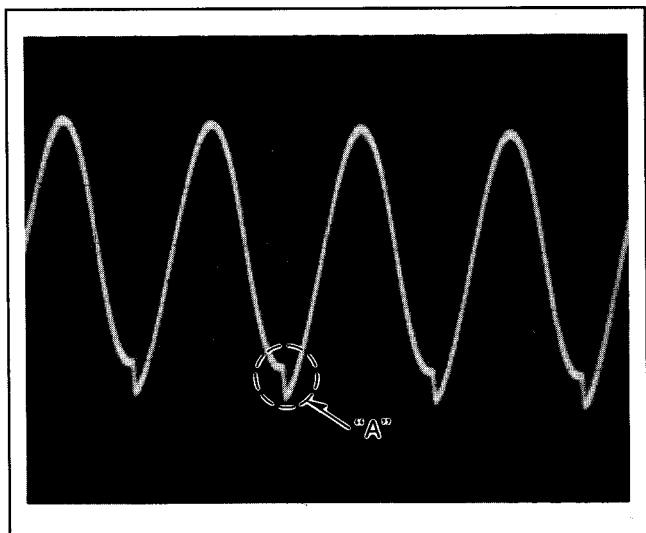


Fig. E9

2-5-9. EE LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT	VR305	STOP	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
	OSCILLOSCOPE	Y: 2.0 ± 0.1 Vp-p	

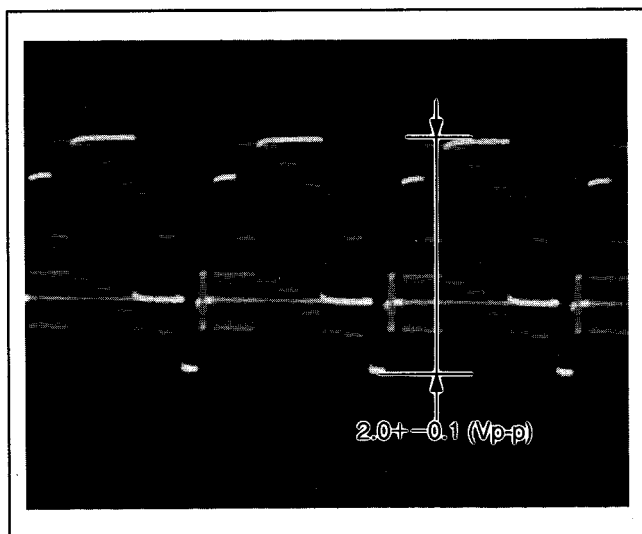


Fig. E10

2-5-10. WHITE CLIP ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC302-82 (TL302)	VR304	STOP	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
	OSCILLOSCOPE	WHITE CLIP LEVEL: $185 \pm 5 / -3\%$	

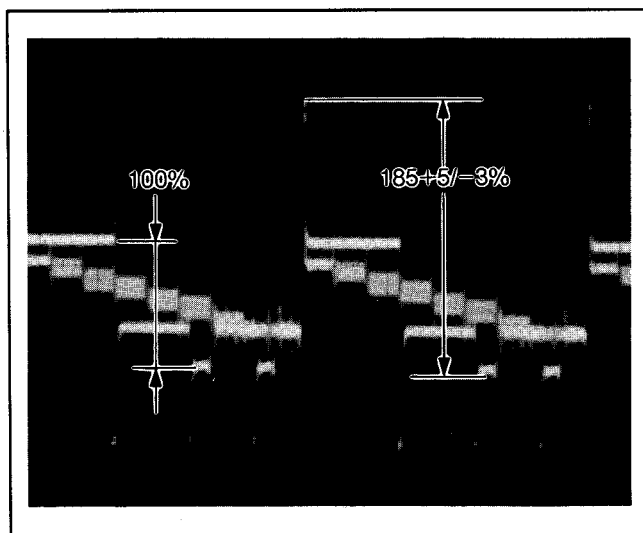


Fig. E11

2-5-11. PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT	VR303	PLAYBACK	
TAPE	M. EQ.	SPEC.	
ALIGNMENT TAPE VFJ8125H3F	OSCILLOSCOPE	Y: 2.0 ± 0.1 Vp-p CYAN: 1.1 ± 0.2 Vp-p	

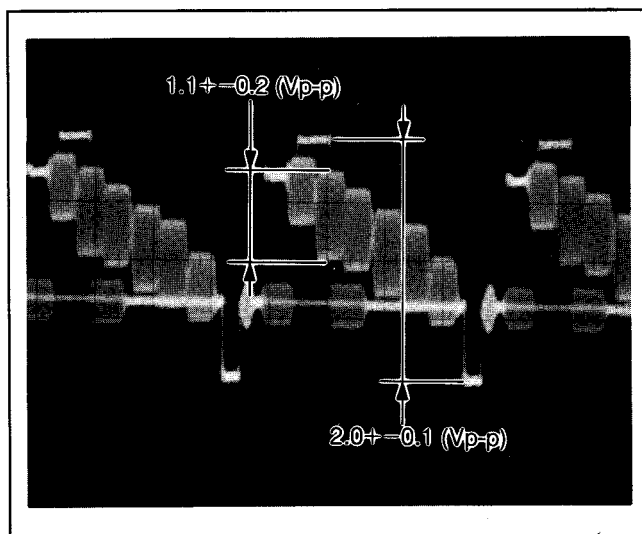


Fig. E12

2-5-12. DEVIATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT	VR301 VR302	(SELF RECORDED) PLAYBACK	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLOSCOPE	Y: 2.0 ± 0.1 (Vp-p) (VIDEO: SYNC=70 : 30)	

- Note: 1. Before this adjustment, the PLAYBACK LEVEL ADJUSTMENT (2-5-11) must be done.
 2. Record the colour bar signal and adjust VR301 and VR302 during recording.
 3. Playback the just recorded portion and confirm the playback Y-signal level is 2.0 ± 0.1 Vp-p.
 4. If the signal level is out of the specification, repeat 2 and 3 until the signal level is the specification.

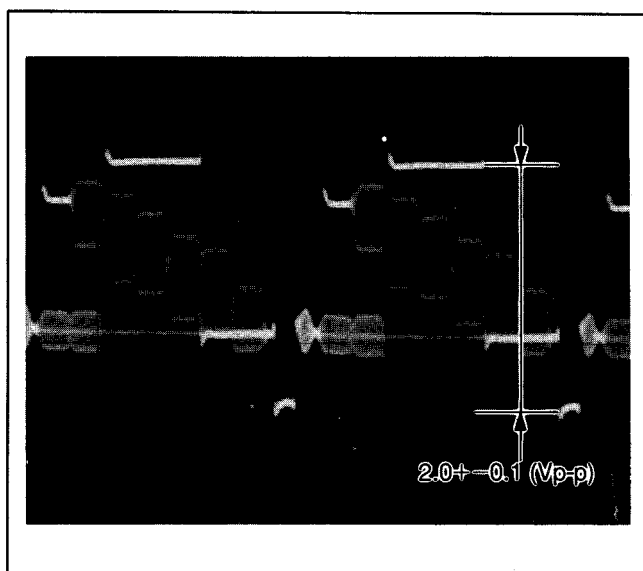


Fig. E13

AUDIO SECTION

2-5-13. BIAS CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4002 (HOT) TP4003 (GND)	VR4001	RECORDING	
TAPE	M. EQ.	SPEC.	
BLANK TAPE	D.V.M.	2.6 ± 0.1 (mVrms)	

- Note: 1. Connect the Audio Input and GND.

TIMER SECTION

2-5-14. TIMER REFERENCE CLOCK ADJUSTMENT

TP	ADJ.	MODE	INPUT
TL7501	C7512	STOP	
TAPE	M. EQ.	SPEC.	
	UNIVERSAL COUNTER	7812.5 ± 0.015 (usec)	

SECTION 3 BLOCK DIAGRAMS

3-1. ABBREVIATIONS

443NT [L]	4.43 NTSC ①	BIL. [H]	BILINGUAL ⑥
A. COMP	AUDIO COMPONENT SIGNAL	BIL/M1 [L]	BILINGUAL ①
A. COMPO	AUDIO COMPONENT SIGNAL	BS CLOCK	BS CLOCK
A. D.P [L]	AUDIO DUBBING PAUSE ①	BS DATA	BS DATA
A. D/L [L]	AUDIO DUBBING PAUSE ①	BS LCH IN	BS L CHANNEL INPUT
A. DEF [S]	AUDIO DEFEAT	BS MIX [H]	BS MIX ⑥
A. DEF [S] [L]	AUDIO DEFEAT	BS MON [H]	BS MONITOR ⑥
A. DUB P [L]	AUDIO DUBBING PAUSE ①	BS MONI [H]	BS MONITOR ⑥
A. DUB [H]	AUDIO DUBBING ⑥	BS RCH IN	BS R CHANNEL INPUT
A. ERASE	AUDIO ERASE	BS VIDEO	BS VIDEO SIGNAL
A. H. SW	AUDIO HEAD SWITCHING PULSE	BS VIDEO/BS1	BS VIDEO SIGNAL
A. HEAD [R]	AUDIO HEAD (REC)	BS [H]	BS ⑥
A. HEAD [W]	AUDIO HEAD (PLAY)	BS. LEVEL	BS LEVEL
A. IN [L]	AUDIO INPUT (L)	BS. M [H]	BS MONITOR ⑥
A. IN [R]	AUDIO INPUT (R)	BS/VTR [H]	BS/VTR ⑥
A. MUT [H]	AUDIO MUTE ⑥	BUS CLK	BUS CLOCK
A. MUTE [H]	AUDIO MUTE ⑥	BUS LSN	BUS LISTEN
A. OUT [L]	AUDIO OUTPUT (L)	BUS TLK	BUS TALK
A. OUT [R]	AUDIO OUTPUT (R)	BUZZER	BUZZER
A. RF OUT	AUDIO RF SIGNAL OUTPUT	CAP EC	CAPSTAN TORQUE CONTROL
A/VS/S. DATA	AV SW/SERIAL DATA	CAP M GND	CAPSTAN MOTOR GND
AC ONLINE	AC ONLINE	CAP. ET	CAPSTAN TORQUE CONTROL
AC. O/EE. H	AC ONLINE/EE ⑥	CAP. FG1	CAPSTAN FG1 PULSE
AFC S C	AFC S CURVE	CAP. FG2	CAPSTAN FG2 PULSE
AFC [S]	AFC S CURVE	CAS. SW	CASSETTE SW
AFC. DEF	AFC DEFEAT	CCN	PLAYBACK CONTROL SIGNAL (-)
ARFC OUT	AUDIO RF SIGNAL OUTPUT	CCP	PLAYBACK CONTROL SIGNAL (+)
ART. V	ARTIFICIAL VERTICAL SYNC SIGNAL	CHM	CONTROL SIGNAL (+)
ART. V. MM	ARTIFICIAL VERTICAL SYNC	CHP	CONTROL SIGNAL (-)
	SIGNAL MONO MULTI	CINEM [L]	CINEMA ①
ART. V/H/N	ARTIFICIAL VERTICAL SYNC	CINEMA [L]	CINEMA ①
	SIGNAL ⑥/NORMAL	CINEMA/MIX	CINEMA/MIX
AT. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL	CKL	RATCH LOCK
ATSW/TEST/NOR/SE	TEST/NORMAL/SERVICE	CKS	SHIFT LOCK
AUDIO IN [L]	AUDIO INPUT (L)	CL	CLOCK
AUDIO IN [R]	AUDIO INPUT (R)	CLK	CLOCK
AUDIO OUT [L]	AUDIO OUTPUT (L)	CLK (C.G)	CLOCK
AUDIO OUT [R]	AUDIO OUTPUT (R)	CLOCK. IN	CLOCK INPUT
AUDIO SELECT [H]	AUDIO SELECT ⑥	CLP	CLAMP
AUDIO. L	AUDIO (L)	COL/B/W/NOR	COLOUR/BLACK & WHITE/NORMAL
AUDIO. R	AUDIO (R)	COLOR [H]	COLOUR ⑥
AV CNT	AV CONTROL	CONV	CONVERTOR
AV CTL	AV CONTROL	CS	CHIP SELECT
AV CTL/S. CLK	AV CONTROL/SERIAL CLOCK	CTL GND	CONTROL GND
AV. C.M.	AV CONTROL MODE	CTL HEAD [+]	CONTROL HEAD (+)
AVCNT/METER. R	AV CONTROL/LEVEL METER (R)	CTL HEAD [-]	CONTROL HEAD (-)
AVSW/METER. L	AV SW/LEVEL METER (L)	CTL [+]	CONTROL HEAD (+)
B MODE. H	B MODE ⑥	CTL [-]	CONTROL HEAD (-)
B.G.P	BURST GATE PULSE	CUE BIAS	CUE BIAS
BACKUP 5V	BACK UP 5V	CURRENT LIM	CURRENT LIMMITER
BAND. U.E.	BAND U	CYL ET	CYLINDER TORQUE CONTROL
BANDVL. D	BAND VL	CYL GND	CYLINDER GND
BI/M1 [L]	BILINGUAL/MIX ①	D.F.M. REC [H]	DELAIED FM RECORDING ⑥
BIL	BILINGUAL	D. FM REC [L]	DELAIED FM RECORDING ①
BIL [L]	BILINGUAL ①	D. GND	DIGITAL GND

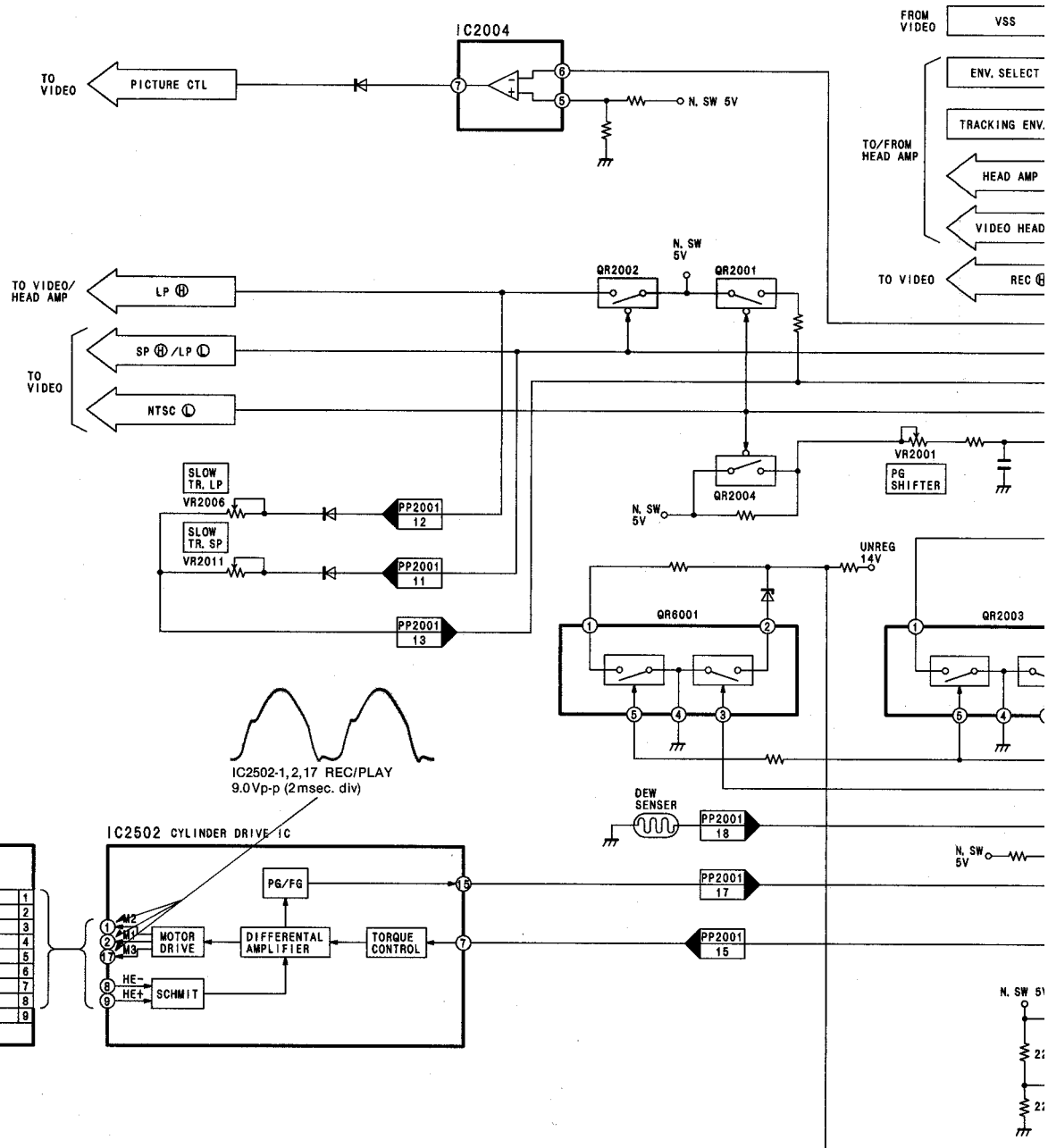
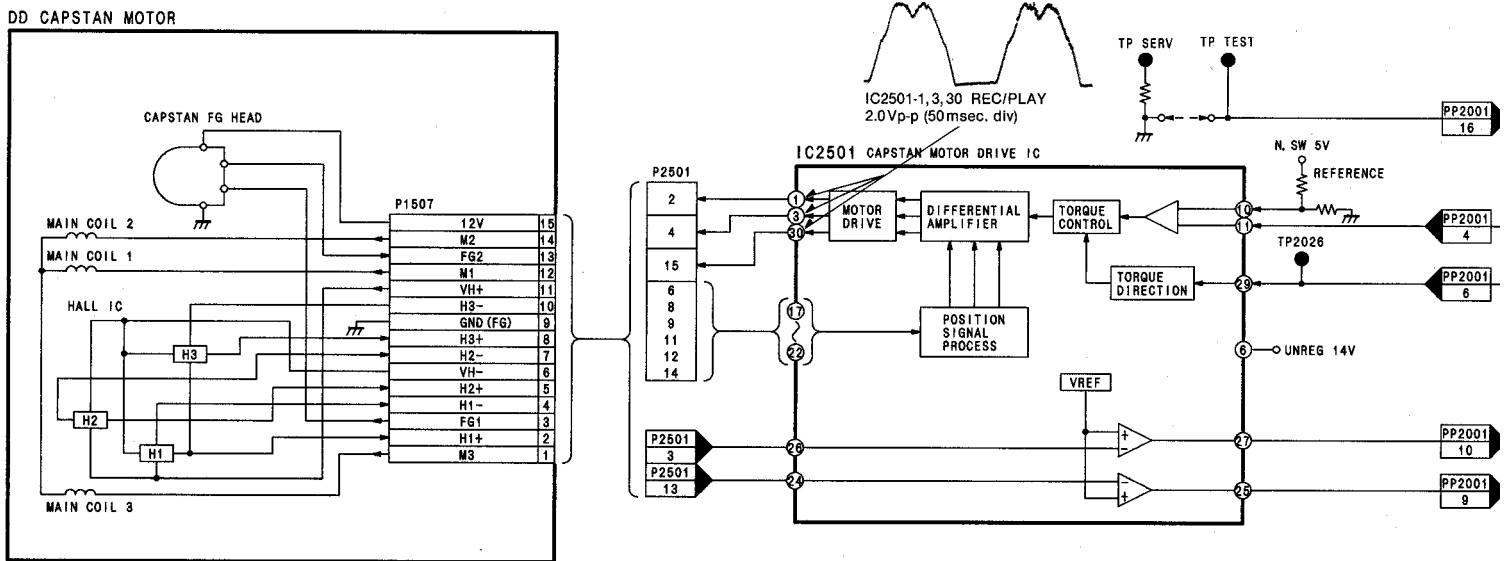
D. REC [H]	DELAYED RECORDING ⑥	H. SYNC	HORIZONTAL SYNC
D4/S. LED	D4/STILL LED	H. AMP. SW	HEAD AMP SW PULSE
D4/STILLED	D4/STILL LED	H. P <R>	HEAD PHONE (R)
DAC [CLK]	TUNER DAC (CLOCK)	H. P <L>	HEAD PHONE (L)
DAC/FSCS	TUNER DAC/FS CHIP SELECT	H. P GND	HEAD PHONE GND
DAREC [H]	DELAYED AUDIO RECORDING ⑥	H. P OUT [L]	HEAD PHONE OUTPUT (L)
DATA	DATA	H. P OUT [R]	HEAD PHONE OUTPUT (R)
DECODER [L]	DECODER (L)	H. SW	HEAD SW PULSE
DECODER [R]	DECODER (R)	HEAD PHONE [L]	HEAD PHONE (L)
DEW	DEW	HEAD PHONE [R]	HEAD PHONE (R)
DEW SNS	DEW SENSOR	HEAD SW	HEAD SW
DFMRE [H]	DELAYED FM AUDIO RECORDING ⑥	HEATER [+]	HEATER (+)
E. REC 5V	EXCEPT RECORDING 5V	HEATER [-]	HEATER (-)
EC	ERROR TORQUE CONTROL	HSS	HORIZONTAL SYNC SIGNAL
ECR	ERROR TORQUE CONTROL	HTR [+]	HEATER (+)
	REFERENCE VOLTAGE	HTR [-]	HEATER (-)
EDT TRIG [L]	EDIT TRIGGER ①	I RFE	REFERENCE CURRENT
EDIT [H]	EDIT ⑥	ICL	CONTROL AGC CIRCUIT
EE [H]	EE ⑥	IF	INTERMEDIATE FREQUENCY
EE [H]/INS [M]	EE ⑥/INSERT ⑥	IN SELA1	INPUT SELECT A1 POSITION
EE. VV. TR	EE/VV/TRICK PLAY	IN SELA2	INPUT SELECT A2 POSITION
EJECT. PO	EJECT POSITION	IN SELA3	INPUT SELECT A3 POSITION
EJECT/VDET	EJECT/REVERSE SLOW LOCK	INS L/R [L]	INSERT Lch/Rch ①
ENV. SEL	ENVELOPE SELECT	INS. [H]	INSERT ⑥
ENVE. OUT	ENVELOPE OUTPUT	INSEL A1	INPUT SELECT A1 POSITION
ENVE. SEL	ENVELOPE SELECT	INSEL A2	INPUT SELECT A2 POSITION
ENV SELECT	ENVELOPE SELECT	INSERT	INSERT
EP [H]	LP ⑥	INSERT [H]	INSERT ⑥
EP/LP [H]	LP ⑥	IO CS	INPUT/OUTPUT CHIP SELECT
EP/LP/SP	LP/SP	JOG1	JOG1
EP/SS [H]	LP/SLOW/STILL/STOP ⑥	JOG S3 LED/FOWRD	JOG LED/FORWARD LED
EPROMCS	EPROM CHIP SELECT	JOG/F. LED	JOG LED/FORWARD LED
EX. REC 5V	EXCEPT RECORDING 5V	JSB [H]	JSB ⑥
FF/REW [L]	FIRST FORWARD/REWIND ①	JST. CLCK	JUST CLOCK
FG1 IN	FG1 PULSE INPUT	JST. CLK	JUST CLOCK
FG2 IN	FG2 PULSE INPUT	JST. CLOCK	JUST CLOCK
FILTER ADJUSTMEN	FILTER ADJUSTMENT	L. OUT	Lch OUTPUT
FLY ERASE [H]	FLYING ERASE HEAD ON ⑥	L. CH [H]	Lch ⑥
FLY ON [H]	FLYING ERASE E HEAD ON ⑥	L. CH [L]	Lch ①
FLY. E [H]	FLYING ERASE HEAD ON ⑥	LED (MAIN)	LED (MAIN)
FM MUT [H]	FM AUDIO MUTE ⑥	LED (STEREO)	LED (STEREO)
FM MUTE [H]	FM AUDIO MUTE ⑥	LED (SUB)	LED (SUB)
FM OUT [L]	FM OUTPUT (L)	LED CKL	LED SERIAL CLOCK
FM OUT [R]	FM OUTPUT (R)	LED CKS	LED SERIAL CLOCK
FM PACK OUT [L]	FM PACK OUTPUT (L)	LED DATA	LED SERIAL DATA
FM PACK OUT [R]	FM PACK OUTPUT (R)	LINE IN 1 [L]	LINE INPUT 1 (L)
FM/BS SEL [L]	FM/BS SELECT (L)	LINE IN 1 [R]	LINE INPUT 1 (R)
FM/BS SEL [R]	FM/BS SELECT (R)	LINE IN 2 [L]	LINE INPUT 2 (L)
FS. CLK	FS CLOCK	LINE IN 2 [R]	LINE INPUT 2 (R)
FUL. E [H]	FULL ERASE HEAD ON ⑥	LINE IN V	LINE INPUT VIDEO
FULL. E [H]	FULL ERASE HEAD ON ⑥	LINE IN [L]	LINE INPUT (L)
FULL. E. 12V	FULL ERASE 12V	LINE IN [R]	LINE INPUT (R)
GND [A]	GND (ANALOGUE)	LINE OUT [L]	LINE OUTPUT (L)
GND [TU]	GND (TUNER)	LINE OUT [R]	LINE OUTPUT (R)
GND/N. SW. 12V	GND/NON SW 12V	LP [H]	LP ⑥

LPTRI [L]	LP TRICK PLAY ①	P. OFF [L]	POWER OFF ①
Lch/A. DUB	Lch/AUDIO DUBBING	PAL [H]	PAL ②
M GND	MOTOR GND	PAL [L]/NTSC [H]	PAL ①/NTSC ②
M REG	MOTOR REGULATOR	PB ADJ OUT	PLAYBACK ADJUST OUTPUT
MAIN OUT	MAIN OUTPUT	PB OUT	PLAYBACK OUTPUT
MAIN [L]	MAIN ①	PB. H	PLAYBACK ②
MAIN/MONO	MAIN/MONAUURAL	PFG	PG/FG
MAX IN	MAXIMAM INPUT	PHOTSN +B	PHOTO SENSOR +B
MES [H]	MESECAM ②	PICT. CNT	PICTURE CONTROL
MESE [H]	MESECAM ②	PLAY LED/RVS LED	PLAY LED/REVERSE LED
MESE [L]	MESECAM ①	PLAY. PO	PLAY POSITION
METER 5V	LEVEL METER 5V	PLAY/R. LED	PLAY LED/REVERSE LED
METER [L]	LEVEL METER (L)	PLY/DEW	PLAY/DEW ②
METER [R]	LEVEL METER (R)	POWER OFF [L]	POWER OFF ①
METER. L/AVS	LEVEL METER (L)	PREROLL [H]	PREROLL ②
METER. R/AVC	LEVEL METER (R)	PWRFAIL	POWER FAILURE DETECT
MI/BI [L]	MIX ②/BILIGUAL	R. CH [H]	Rch ②
MIC GND	MIC GND	R. CH [L]	Rch ①
MIC IN	MIC INPUT	R. ST	RESET
MIC IN [L]	MIC INPUT (L)	R/S/F	REVERSE ②/STOP ③/FORWARD ①
MIC IN [R]	MIC INPUT (R)	RCH [H]	Rch ②
MIC [H]	MIC ②	REC 12V	RECORDING 12V
MIX [H]	MIX ②	REC CHROMA	RECORDING CHROMINANCE SIGNAL
MIX [H]/CINEMA [L]	MIX ②/CINEMA SOUND ①	REC H	RECORDING ②
MIX/CINE	MIX ②/CINEMA SOUND ①	REC IN	RECORDING INPUT
MIX/CINEMA [L]	MIX ②/CINEMA SOUND ①	REC OUT [L]	RECORDING OUTPUT ①
MN. H/M. L	MONAURAL ②/MAIN ①	REC START	RECORDING START
MN. H/MAI. L	MONAURAL ②/MAIN ①	REC VR [C]	RECORDING VOLUME (COMMON)
MN2/MES. L	MONAURAL 2/MESECAM ①	REC VR [L]	RECORDING VOLUME (L)
MODE SEL	AUDIO MODE SELECT	REC VR [R]	RECORDING VOLUME (R)
MODE SW	AUDIO MODE SW	REC Y	RECORDING LUMINANCE SIGNAL
MODE. S. IN	AUDIO MODE SELECT INPUT	REC [H]	RECORDING ②
MODE. S. OUT	AUDIO MODE SELECT OUTPUT	REC. C	RECORDING CHROMINANCE SIGNAL
MONO [H]	MONAURAL ②	REC. Y	RECORDING LUMINANCE SIGNAL
MONO [H]/MAIN [L]	MONAURAL ②/MAIN ①	REC/EE CTL	RECORDING/EE CONTROL
MONO2 [L]	MONAURAL 2	REEL-T	REEL PULSE (TAKE-UP)
MONO2/MESE [FM(L)]	MONAURAL 2/MESECAM (FM ①)	REEL-S	REEL PULSE (SUPPLY)
MOTOR GND	MOTOR GND	REGULATOR FILTER	REGULATOR FILTER
MUTE	MUTE	RESET	RESET
N. A. REC [L]	NORMAL AUDIO RECORDING	REV M F/R	REVIEW MOTOR
N. SW 12V	NON SW 12V	REV M V1	FORWARD/REVERSE
N. SW. 5. DET	NON SW 5V DETECT	REV M V2	REVIEW MOTOR V1
NICAM	NICAM	REV MOTOR F/R	REVIEW MOTOR V2
NICAM [L]	NICAM ①		REVIEW MOTOR
NOL [H]	PAL ②/4.43 NTSC ③/3.58 NTSC ①		FORWARD/REVERSE
NOR/SOFT [H]	NORMAL/SOFT TAPE PLAY ②	REV MOTOR V1	REVIEW MOROR V1
NORMAL [H]	NORMAL ②	REV MOTOR V2	REVIEW MOTOR V2
NR BIAS	NR BIAS	REV MOTOR [+]	REVIEW MOTOR (+)
NTSC [L]	NTSC ①	REV MOTOR [-]	REVIEW MOTOR (-)
OCH	CONTROL AGC CIRCUIT	REV. M. GND	REVIEW MOTOR GND
OUT	OUTPUT	RF. CHROMA	RF CHROMINANCE SIGNAL
P-OFF [H]	POWER OFF ②	RF OUT	RF OUTPUT
P-OFF [L]	POWER OFF ①	RF Y	RF LUMINANCE SIGNAL
P. FAIL	POWER FAILURE DETECT	RF. Y. IN	RF LUMINANCE SIGNAL INPUT
P. OFF [H]	POWER OFF ②	RF. Y. OUT	RF LUMINANCE SIGNAL OUTPUT

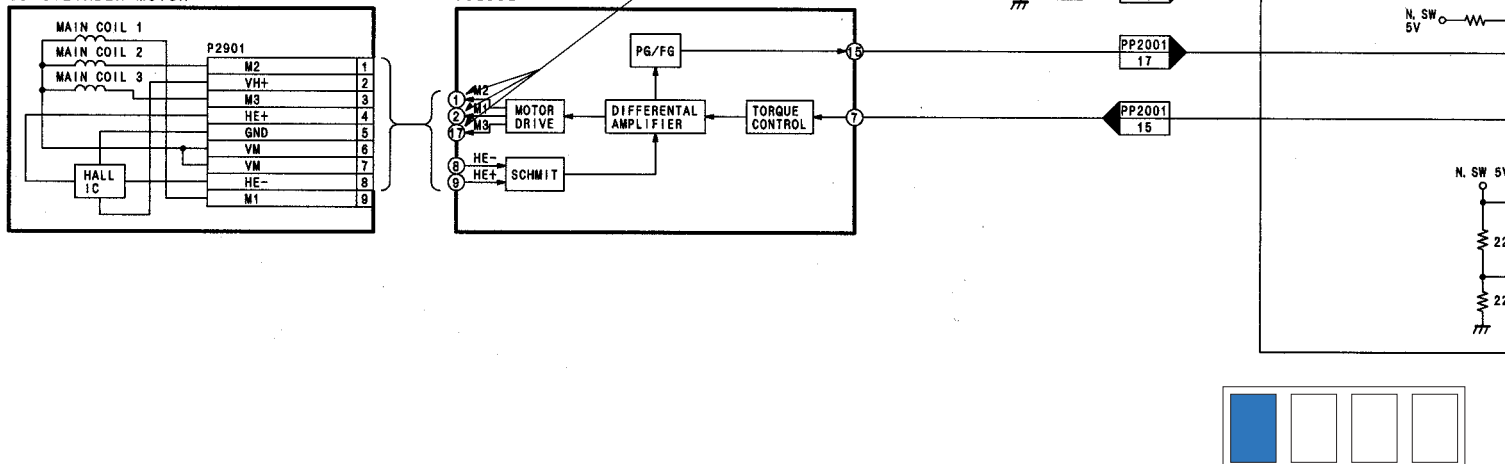
ROTAR. SW	ROTARY SW	T. BUSCLK	TIMER BUS CLOCK
ROTARY	ROTARY SW	T. BUSLSN	TIMER BUS LISTEN
RST	RESET	T. BUSTLK	TIMER BUS TALK
RST [L]	RESET ①	T. END [L]	TAPE END ①
Rch/INST	Rch/INSERT	T. PHOTO	TAKE-UP PHOTO TRANSISTOR
S IN	SERIAL DATA INPUT	TAPE END [L]	TAPE END ①
S OUT	SERIAL DATA OUTPUT	TAPE END [L]/CAM	TAPE END ①/CAMERA PAUSE
S-PHOTO	SUPPLY PHOTO TRANSISTOR	TEST	TEST MODE
S-RL. PLS	SUPPLY REEL PULSE	TPZ	TRAPEZOIDAL WAVE CIRCUIT
S. CLK	SERIAL CLOCK	TRIC [L]	TRIC PLAY ①
S. CLK/AV	SERIAL CLOCK/AV	TRICK [L]	TRIC PLAY ①
S. DATA	SERIAL DATA	TRK. ENV	AUTO TRACKING ENVELOPE DETECT
S. DATA/A	SERIAL DATA	TU. AUDIO	TUNER AUDIO
S. PHOTO	SUPPLY PHOTO TRANSISTOR	TU. GND	TUNER GND
S. TAB [L]	SAFETY TAB SW ON ①	TU. V. IN	TUNER VIDEO SIGNAL INPUT
S/P/N	SECAM/PAL/NTSC	TU. VIDEO	TUNER VIDEO
SC IN	SERIAL CLOCK INPUT	TUN NOR IN	TUNER NORMAL INPUT
SC OUT	SERIAL CLOCK OUTPUT	TUN R	TUNER AUDIO (R)
SCK SELECT	SERIAL CLOCK SELECT	TUN. AUDIO IN	TUNER AUDIO INPUT
SEL OUT [L]	SELECT OUTPUT (L)	TUNER 12V	TUNER 12V
SEL OUT [R]	SELECT OUTPUT (R)	TUNER L	TUNER AUDIO (L)
SHUTTLE 1	SHUTTLE 1	TUNER V IN	TUNER VIDEO SIGNAL INPUT
SIF	SOUND INTERMEDIATE FREQUENCY	TUNER [L]	TUNER AUDIO (L)
SLMUT [H]	INPUT SELECT MUTE ⑥	TUNER [N]	TUNER AUDIO (NORMAL)
SLNID [+]	SOLENOID (+)	TUNER [R]	TUNER AUDIO (R)
SLNID [-]	SOLENOID (-)	TUNER. 12	TUNER 12V
SLW TR. MM	SLOW TRACKING MONO MULTI	TUOFF [H]	TUNER OFF ⑥
SLW TR. REF	SLOW TRACKING REFERENCE	TV. AUDIO	TV AUDIO
	VOLTAGE	TV/VTR	TV/VTR
SNS. GND	SENSOR GND	TXTON [L]	TEXT ON ①
SOFT [H]	SOFT TAPE PLAY ⑥	U. REG45V	UNREGULATOR 45V
SOFT [H]/NORMAL	SOFT TAPE PLAY ⑥/NORMAL ⑥	UNREG	UNREGULATOR
SOLENOID ON [L]	SOLENOID ON ①	UNREG19V	UNREGULATOR 19V
SP [H]	SP ⑥	V. REF	REFERENCE VOLTAGE
SP/L/SLP	SP/LP	V. EE [H]	VIDEO EE ⑥
SSS [L]	SLOW/STILL/STOP	V. EE [L]	VIDEO EE ①
STEREO LED	STEREO LED	VCO REF	REFERENCE OSCILLATER
STEREO [H]	STEREO ⑥	VD. IN	VIDEO SIGNAL INPUT
STEREO [L]	STEREO ①	VD. OUT	VIDEO SIGNAL OUTPUT
STOP. PO	STOP POSITION	VIDEO EE [L]	VIDEO EE ①
STOP/5V	STOP POSITION/5V	VIDEO IN	VIDEO SIGNAL INPUT
STOP1/TAPE SEL	STOP1 POSITION/TAPE SELECT	VIDEO OUT	VIDEO SIGNAL OUTPUT
STOP1/PAL:ST	STOP1 POSITION/PAL	VM	MOTOR VOLTAGE
STOP2. PO	STOP 2 POSITION	VM DOWN [L]	MOTOR VOLTAGE DOWN ①
STOP2/S-TAB	STOP 2 POSITION/SAFETY TAB SW	VSS	VERTICAL SYNC SIGNAL
STREO [H]	STEREO ⑥	VTR [H]	VTR ⑥
SUB BIAS	SUB BIAS	VTR. 12V	VTR 12V
SUB. SW	SUB SW	X IN	OSCILLATOR INPUT
SVHS CAS [L]	S-VHS CASSETTE ①	X OUT	OSCILLATOR OUTPUT
SW. 5. DET	SW 5V DETECT		
SYNC [L]	SYNC ①		
SYSCON 5V	SYSTEM CONTROL 5V		
SYSTEM	SYSTEM SW		
T-PHOTO	TAKE-UP PHOTO TRANSISTOR		
T-RL. PLS	TAKE-UP REEL PULSE		

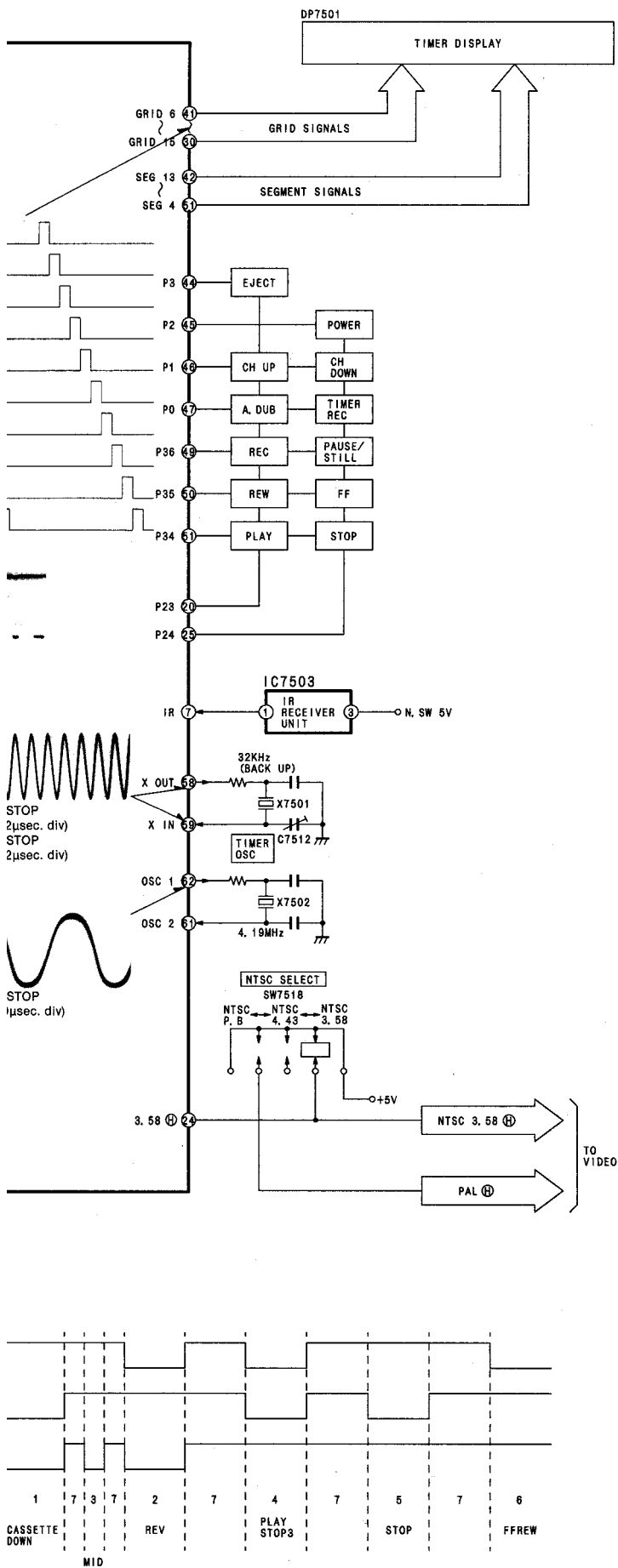
3-2. SYSTEM CONTROL & SERVO BLOCK DIAGRAM

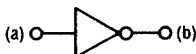



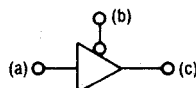
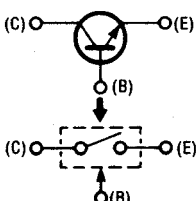
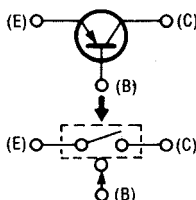
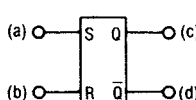
DD CAPSTAN MOTOR



DD CYLINDER MOTOR

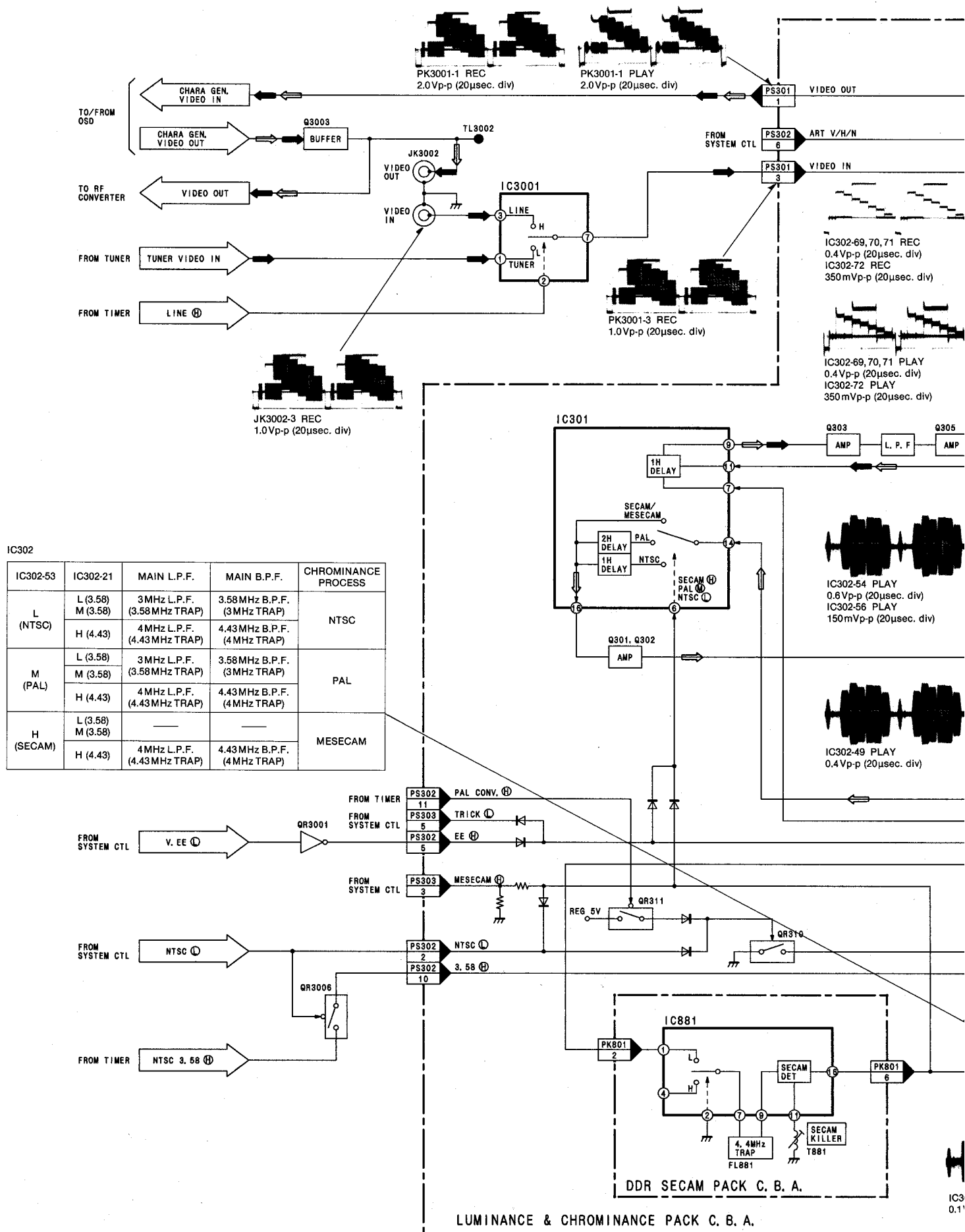


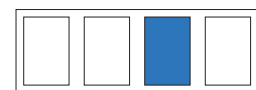
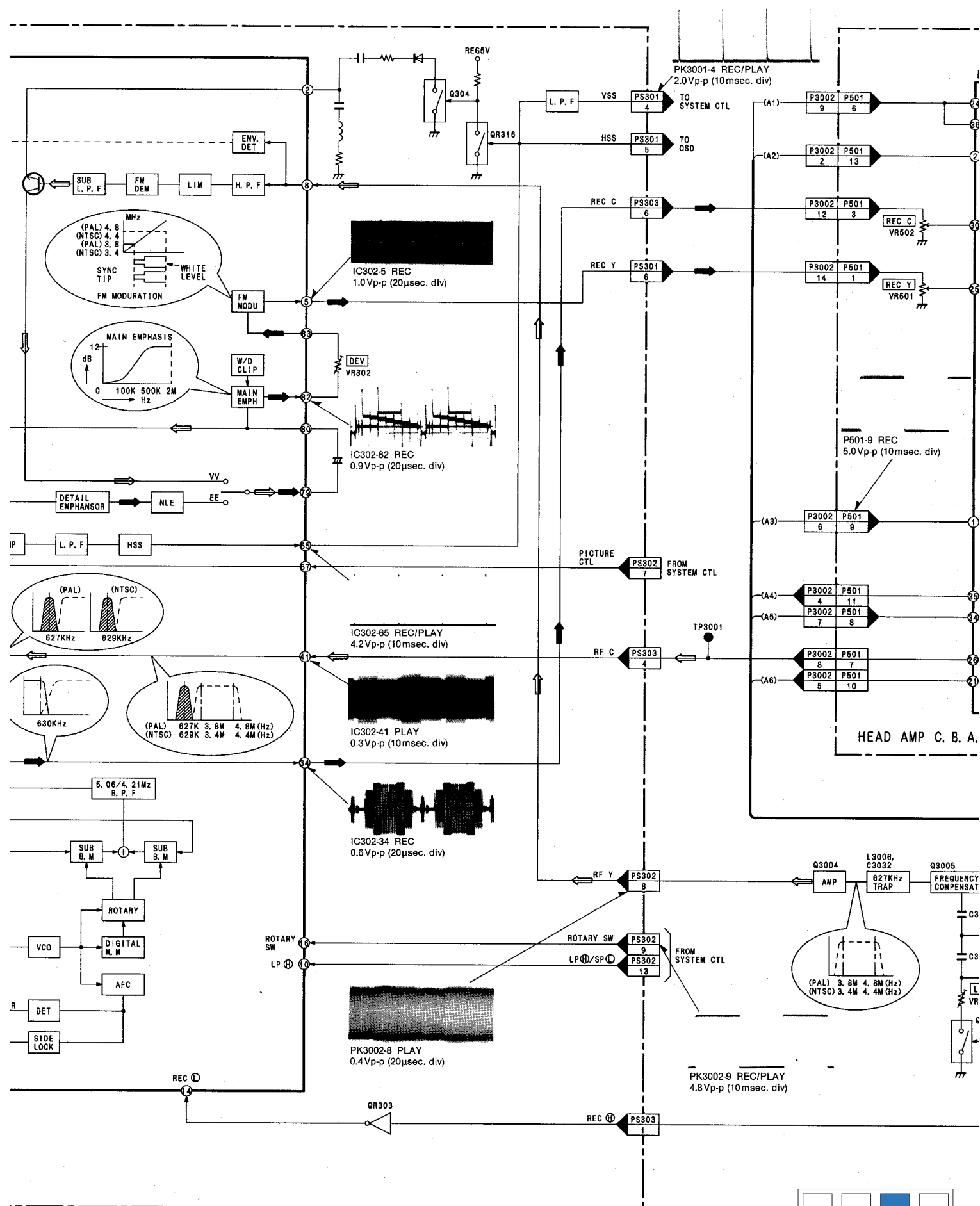


SYMBOL	TRUTH VALUE TABLE										
INVERTER 	<table><tr><td>IN</td><td>(a)</td><td>H</td><td>L</td></tr><tr><td>OUT</td><td>(b)</td><td>L</td><td>H</td></tr></table>	IN	(a)	H	L	OUT	(b)	L	H		
IN	(a)	H	L								
OUT	(b)	L	H								
COMPARTOR 	<table><tr><td>IN</td><td>(a)</td><td>(b)</td><td>(a) > (b)</td><td>(a) < (b)</td></tr><tr><td>OUT</td><td>(c)</td><td></td><td>H</td><td>L</td></tr></table>	IN	(a)	(b)	(a) > (b)	(a) < (b)	OUT	(c)		H	L
IN	(a)	(b)	(a) > (b)	(a) < (b)							
OUT	(c)		H	L							
AND CIRCUIT 	<table><tr><td>IN</td><td>(a)</td><td>(b)</td><td>(a) & (b)</td></tr><tr><td>OUT</td><td>(c)</td><td></td><td>H</td></tr></table>	IN	(a)	(b)	(a) & (b)	OUT	(c)		H		
IN	(a)	(b)	(a) & (b)								
OUT	(c)		H								
OR CIRCUIT 	<table><tr><td>IN</td><td>(a)</td><td>(b)</td><td>(a) (b)</td></tr><tr><td>OUT</td><td>(c)</td><td></td><td>H</td></tr></table>	IN	(a)	(b)	(a) (b)	OUT	(c)		H		
IN	(a)	(b)	(a) (b)								
OUT	(c)		H								
THREE STATES BUFFER 	<table><tr><td>IN</td><td>(a)</td><td>(b)</td><td>(a) & (b)</td></tr><tr><td>OUT</td><td>(c)</td><td></td><td>H</td></tr></table> <p>※ High Impedance</p>	IN	(a)	(b)	(a) & (b)	OUT	(c)		H		
IN	(a)	(b)	(a) & (b)								
OUT	(c)		H								
TR. SW (NPN TYPE) 	<table><tr><td>BASE</td><td>H</td><td>L</td></tr><tr><td>TR. SW</td><td>ON</td><td>OFF</td></tr></table>	BASE	H	L	TR. SW	ON	OFF				
BASE	H	L									
TR. SW	ON	OFF									
TR. SW (PNP TYPE) 	<table><tr><td>BASE</td><td>H</td><td>L</td></tr><tr><td>TR. SW</td><td>OFF</td><td>ON</td></tr></table>	BASE	H	L	TR. SW	OFF	ON				
BASE	H	L									
TR. SW	OFF	ON									
R-S TYPE FLIP-FLOP 	<table><tr><td>IN</td><td>(a)</td><td>(b)</td><td>(a) & (b)</td></tr><tr><td>OUT</td><td>(c)</td><td>(d)</td><td>H</td></tr></table> <p>※ Initial condition is maintained. ◆ Initial condition is reversed.</p>	IN	(a)	(b)	(a) & (b)	OUT	(c)	(d)	H		
IN	(a)	(b)	(a) & (b)								
OUT	(c)	(d)	H								

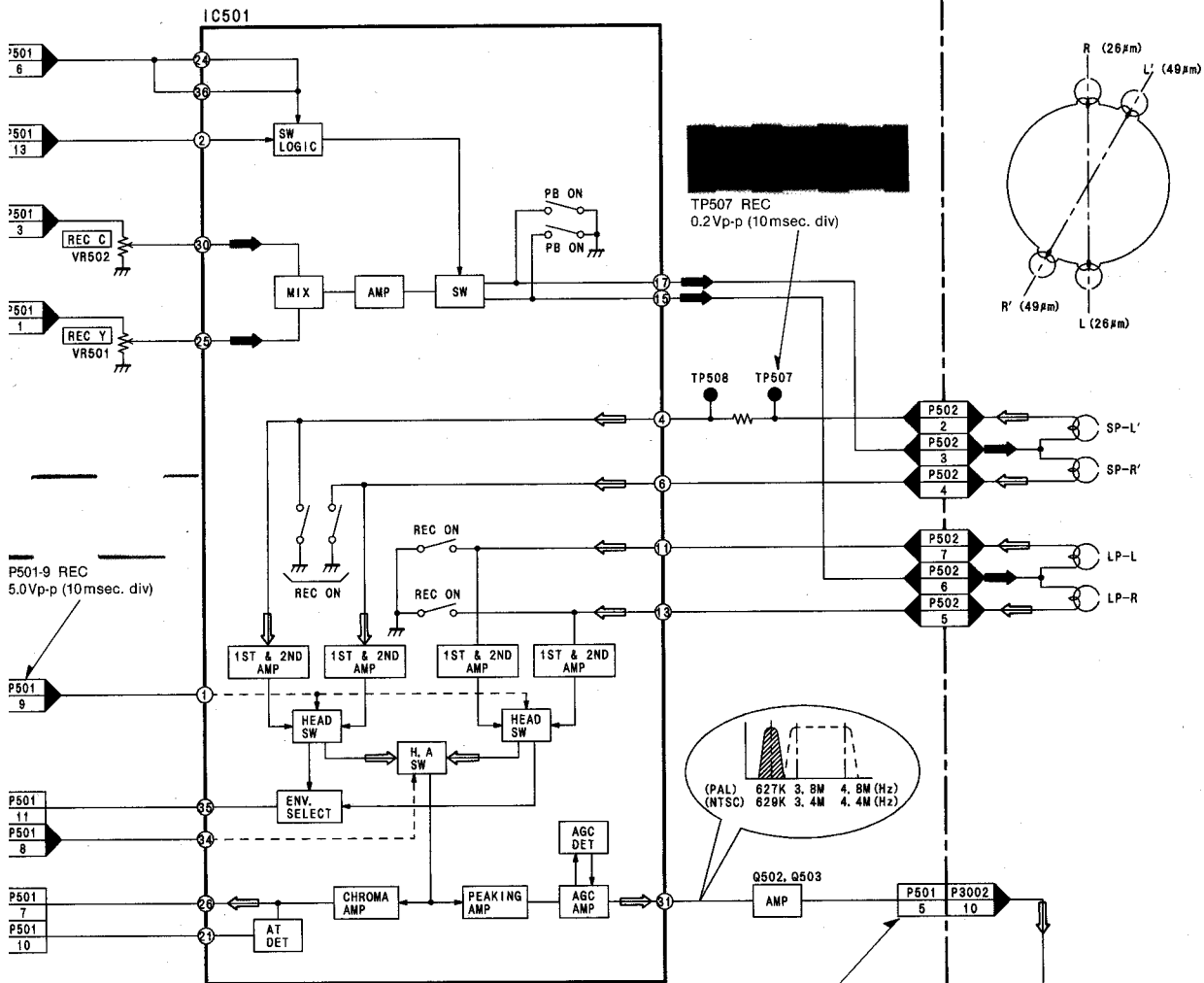


3-3. LUMINANCE & CHROMINANCE BLOCK DIAGRAM

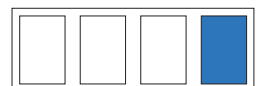
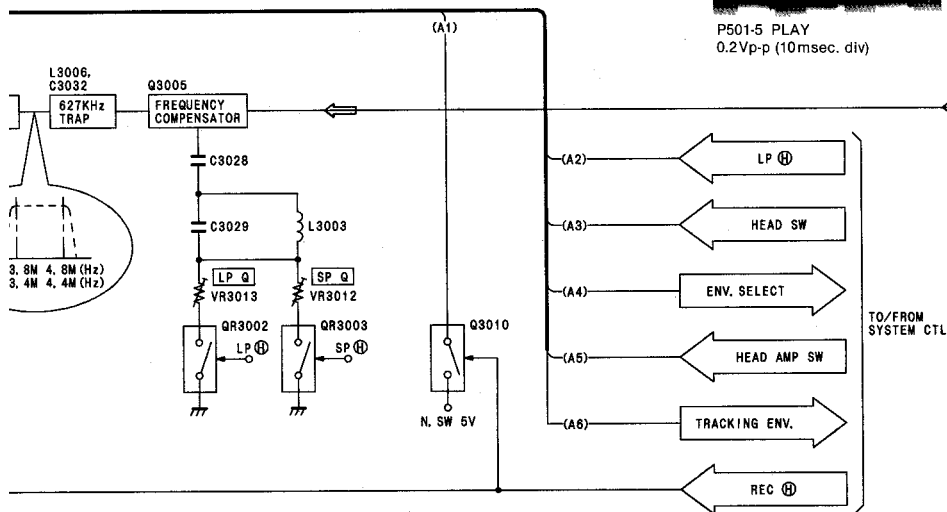




 MAIN SIGNAL PATH IN REC MODE
 MAIN SIGNAL PATH IN PLAYBACK MODE

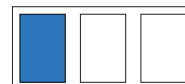


HEAD AMP C. B. A.

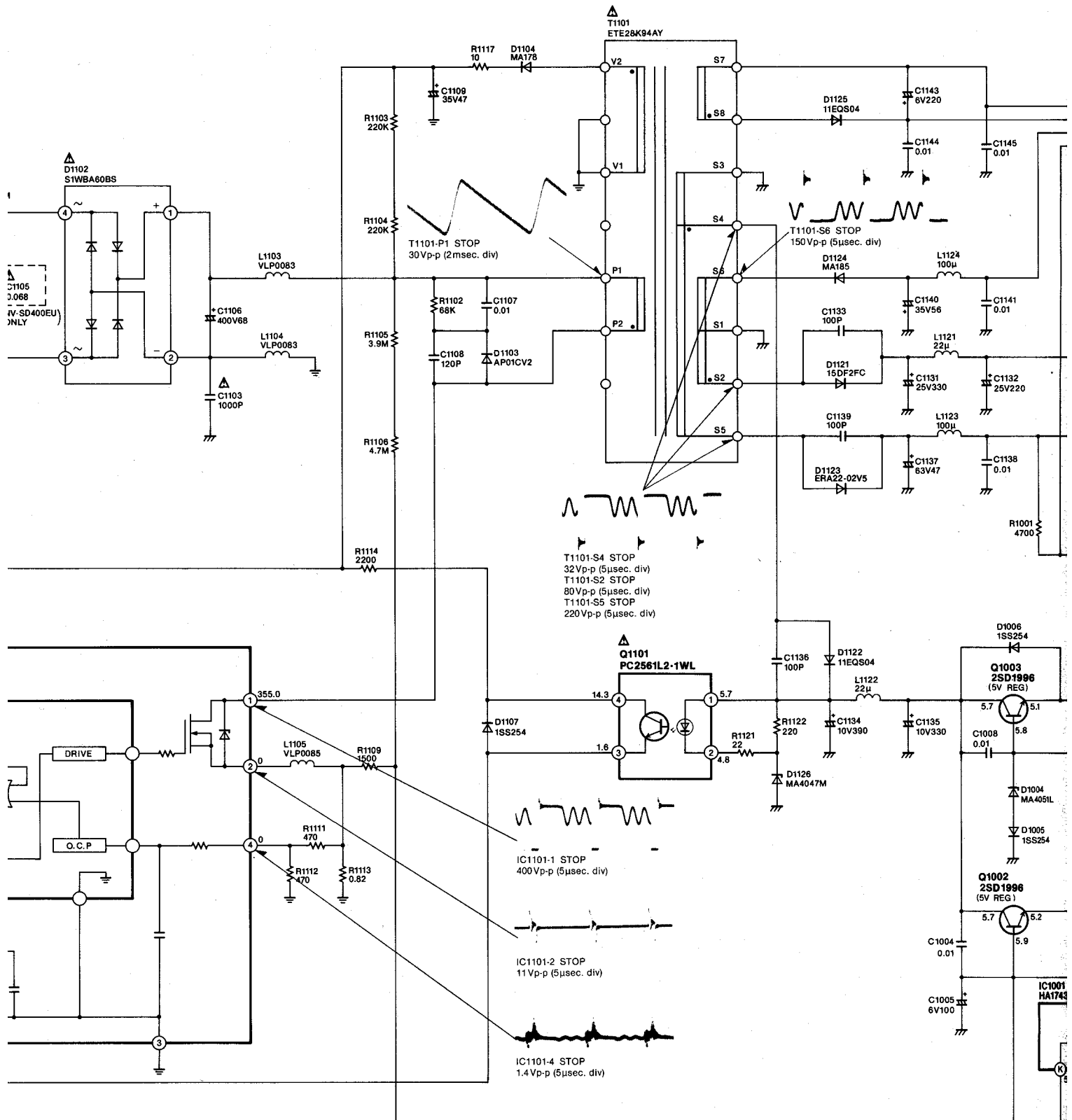




NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS



ATIC DIAGRAM



: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

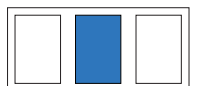
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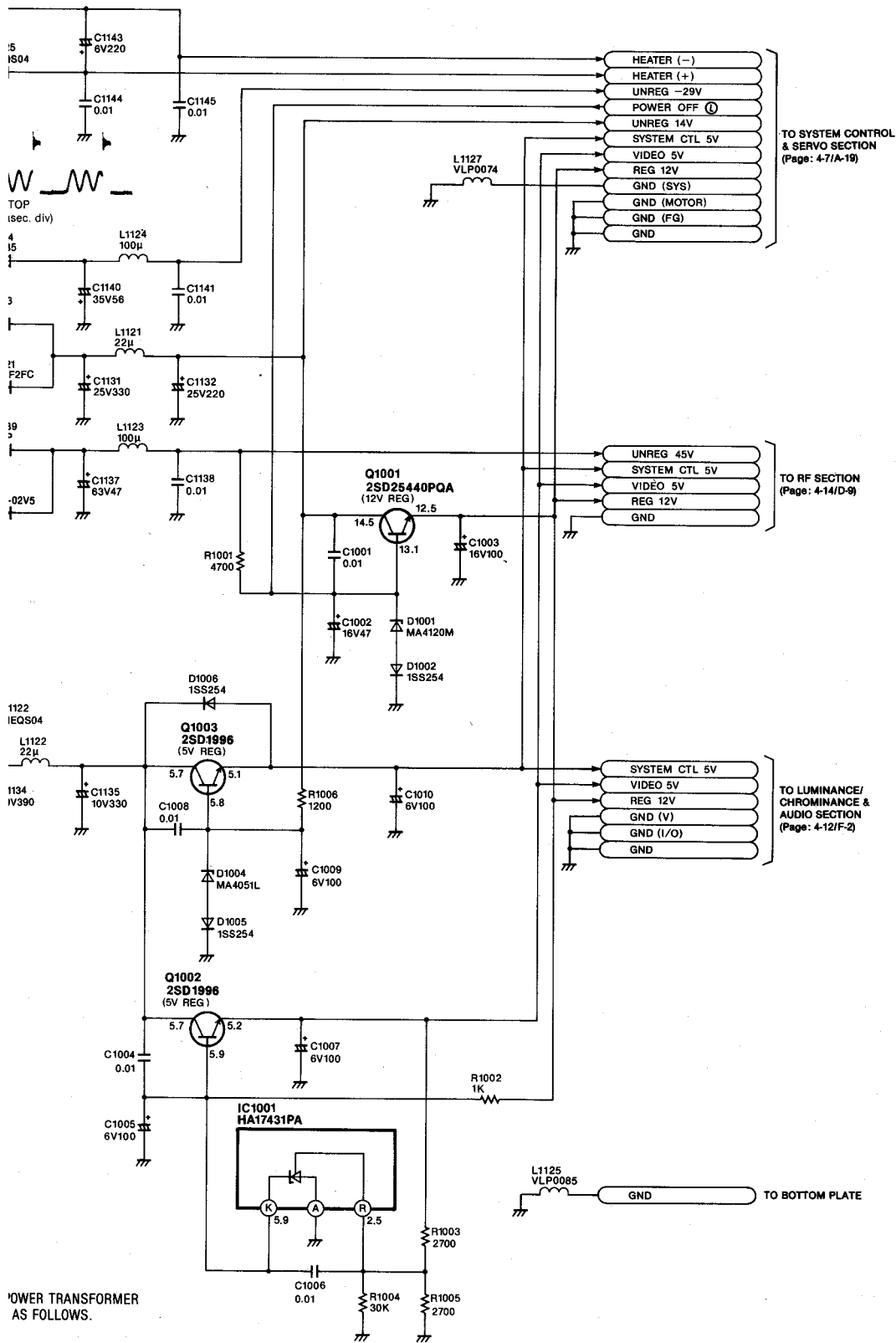
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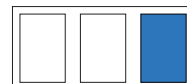
THE VOLTAGE WHEN

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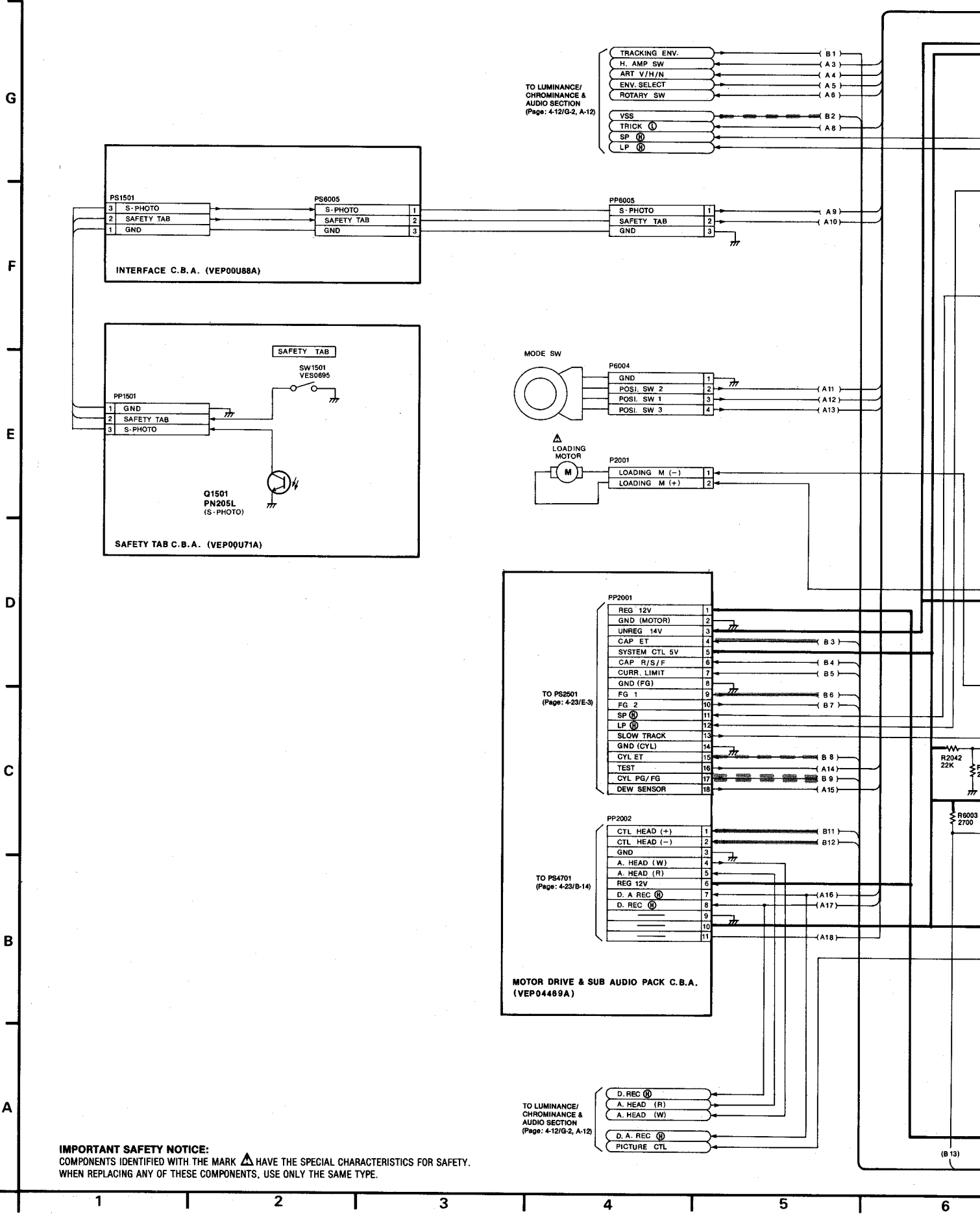
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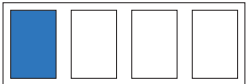
11



4-3. SYSTEM CONTROL & SERVO SECTION IN MAIN SCHEMATIC DIAGRAM

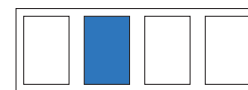
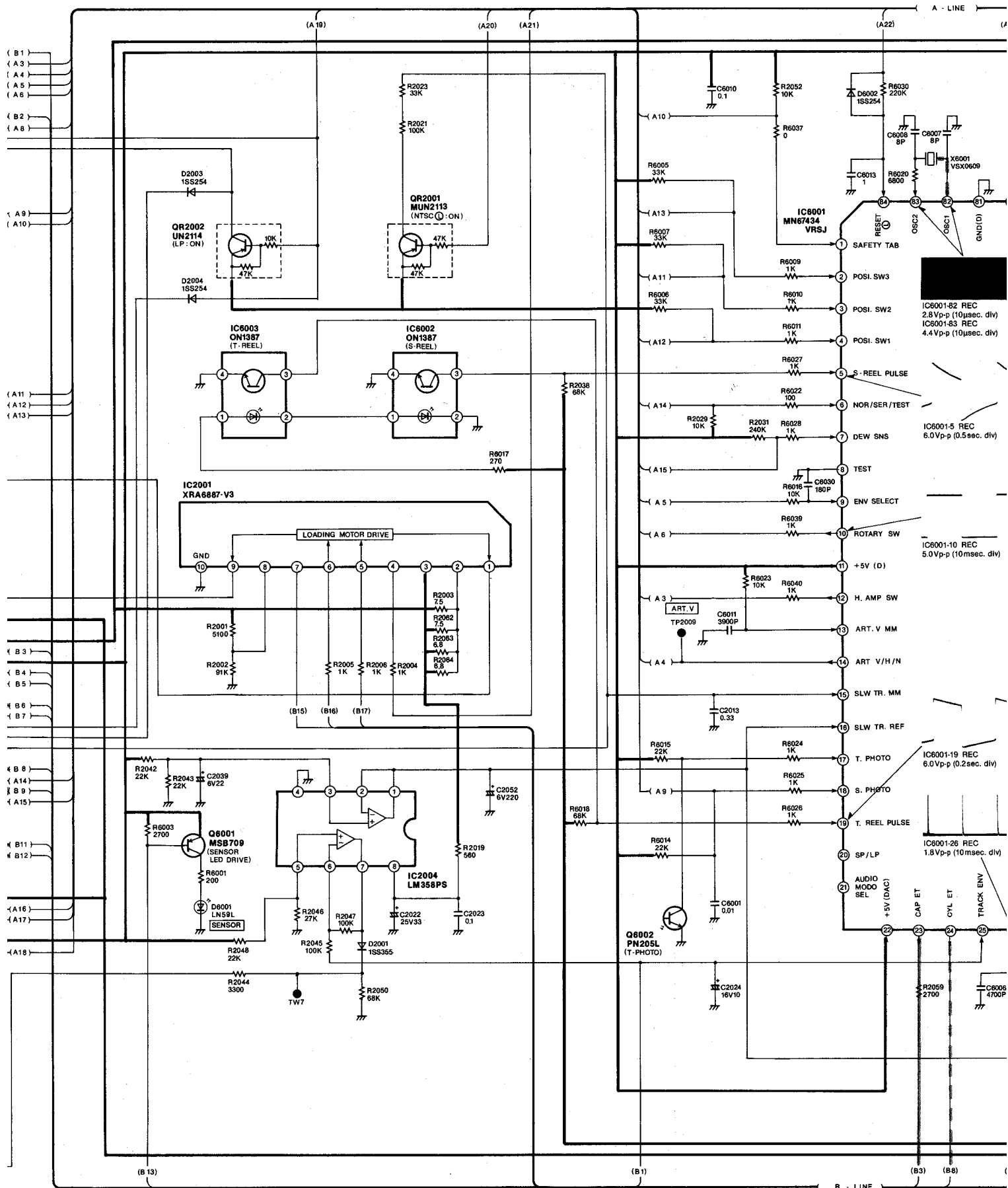


IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.



IC DIAGRAM

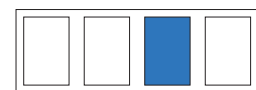
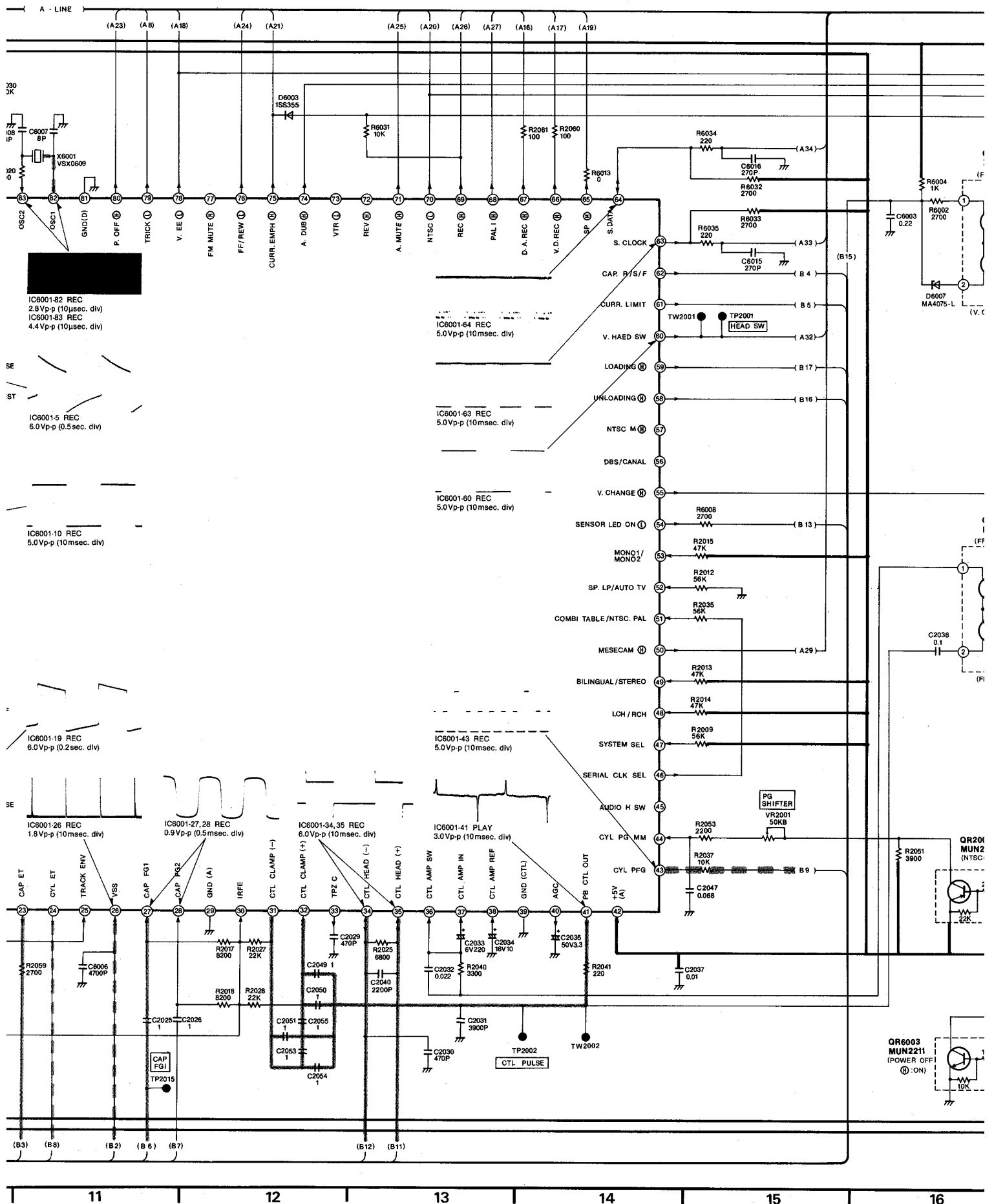
CAPSTAN SERVO SPEI



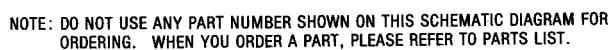
ERVO SPEED LOOP

CAPSTAN SERVO PHASE LOOP

CYLINDER SERVO SPEED



CYLINDER SERVO PHASE LOOP



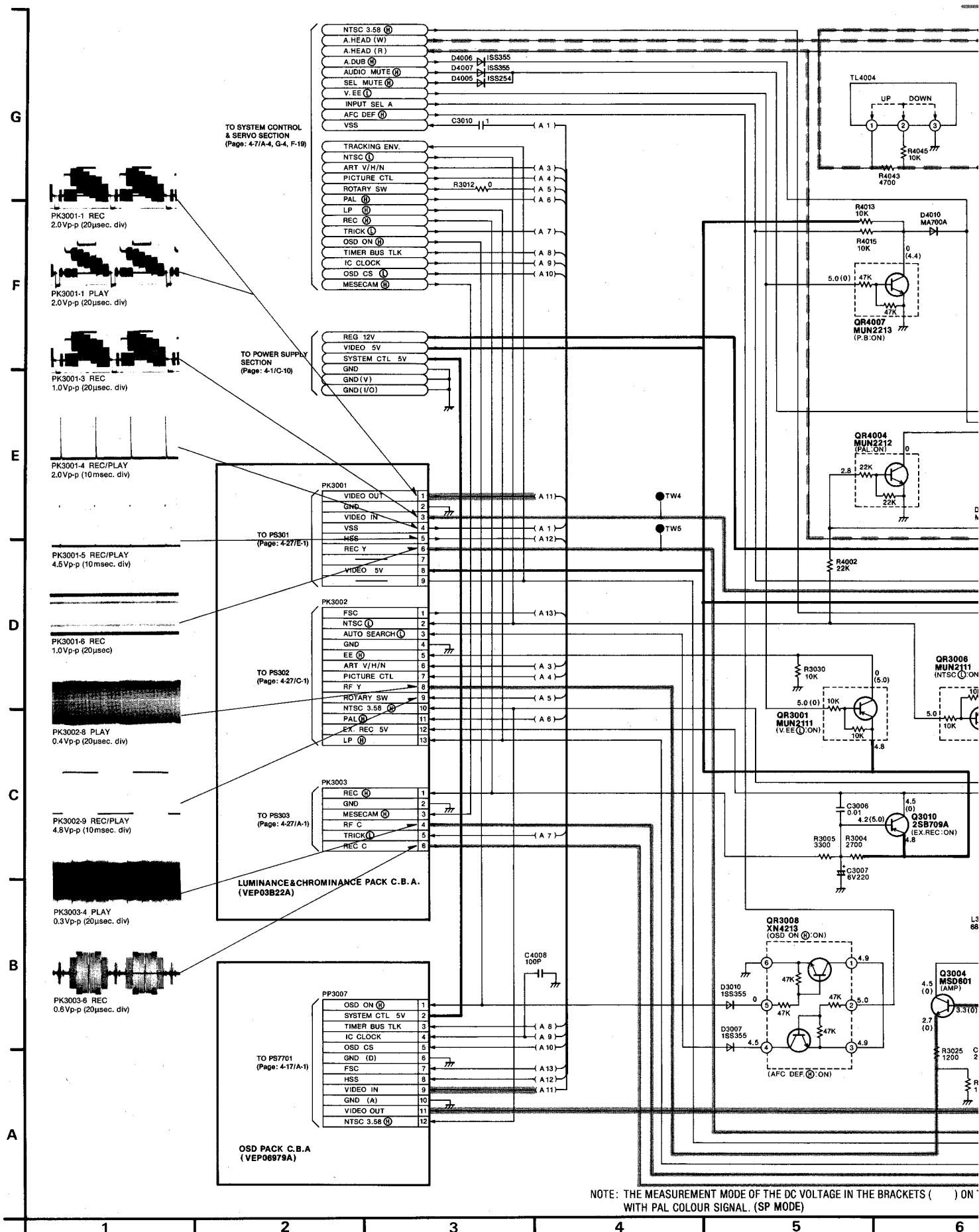
SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (SP MODE)

REF. NO.	IC2001										IC2004									
MODE	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8		
STOP	0.2	14.4	14.4	0	0	0	7.4	9.3	0.1	0	2.5	2.5	2.5	0	0	0.1	0	14.0		
PLAY	0.3	14.1	14.1	0	0	0	7.4	9.1	0.5	0	2.5	2.5	2.5	0	0	1.6	0	13.7		
REC	0.2	14.0	14.0	0	0	0	7.4	9.0	0.2	0	2.5	2.5	2.5	0	0	0	0	13.6		
F.F	0.5	14.1	14.1	0	0	0	14.0	9.1	0.5	0	2.5	2.5	2.5	0	0	1.0	0	13.6		
REW	0.3	14.1	14.1	0	0	0	14.1	9.1	0.3	0	2.5	2.5	2.5	0	0	1.4	0	13.7		
REF. NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	5.0	0	0	0	5.0	0	0	0.2	2.5	5.0	0	0.1	0	0	2.5	5.0	4.9	0	0
PLAY	0	5.0	0	0	5.0	5.0	0	0	3.8	2.5	5.0	0	0.1	0	0	2.5	5.0	4.7	0	0
REC	0	5.0	0	0	5.0	5.0	0	0	4.8	2.5	5.0	0	0.1	0	0	2.5	4.9	4.3	4.1	0
F.F	0	5.0	0	0	2.3	5.0	0	0	2.3	2.5	5.0	0	0.1	0	0	2.5	0	4.8	2.3	0
REW	0	5.0	5.0	0	2.3	5.0	0	0	2.8	2.5	5.0	0	0.1	0	0	2.5	5.0	4.8	2.3	0
REF. NO.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	5.0	5.0	0.1	2.5	0.2	2.5	2.5	2.5	0	2.5	2.4	2.7	5.0	0	0	0	2.5	2.5	0	2.5
PLAY	5.0	5.0	2.5	2.5	3.1	2.5	2.5	2.5	0	2.5	0	2.5	5.0	0	0	0	2.5	2.5	0	2.8
REC	5.0	5.0	2.5	2.5	0	2.5	2.5	2.5	0	2.5	2.4	2.6	5.0	2.2	0	0	2.5	2.5	0	2.5
F.F	0	5.0	2.5	2.5	2.1	2.5	2.5	0	0	2.5	2.4	0	5.0	0	0	0	2.5	2.5	0	3.0
REW	5.0	5.0	2.5	2.5	2.7	2.5	2.5	2.5	0	2.5	2.4	0	5.0	0	0	0	2.5	2.5	0	0
REF. NO.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	2.6	5.0	1.1	2.9	0	4.9	0	5.0	5.0	0	4.8	5.0	5.0	5.0	5.0	0	0	0	0	2.5
PLAY	2.6	5.0	0	2.9	2.5	4.9	0	5.0	5.0	0	4.8	5.0	5.0	0.1	5.0	0	0	0	0	2.5
REC	2.6	5.0	1.1	2.9	0	4.9	0	5.0	5.0	0	4.8	5.0	5.0	0.1	5.0	0	0	0	0	2.5
F.F	2.6	5.0	1.1	2.9	0	4.9	0	5.0	5.0	0	4.8	0	5.0	0.1	0	0	0	0	0	2.5
REW	2.6	5.0	1.1	2.9	0	4.9	0	5.0	5.0	0	4.8	5.0	5.0	0.1	0	0	0	0	0	2.5
REF. NO.	IC6001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	5.0	2.1	4.5	4.2	5.0	0	0	5.0	0.1	5.0	0	5.0	0.1	0	0	5.0	0	0	5.0	0
PLAY	5.0	0	4.5	4.3	5.0	0	0	0	0.1	5.0	0	0	0	0	0	5.0	0	0	0	0
REC	5.0	0	4.5	4.3	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0.1	0	0	5.0	0	0	5.0	0
F.F	5.0	0	4.5	4.3	5.0	0	0	5.0	0	5.0	0	0	0.1	0	0	0	0	0	5.0	0
REW	5.0	5.0	0	4.3	5.0	0	0	5.0	0.1	5.0	0	5.0	0.1	0	0	0	0	0	0	0
REF. NO.	IC6001																			
MODE	81	82	83	84																
STOP	0	—	—	5.1																
PLAY	0	—	—	5.1																
REC	0	—	—	5.0																
F.F	0	—	—	5.0																
REW	0	—	—	5.1																

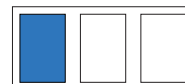
SYSTEM CONTROL & SERVO TRANSISTORS DC VOLTAGE CHART (SP MODE)

[illegible]

4-4. LUMINANCE/CHROMINANCE & AUDIO SECTION IN MAIN SCHEMATIC



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS () ON
WITH PAL COLOUR SIGNAL. (SP MODE)

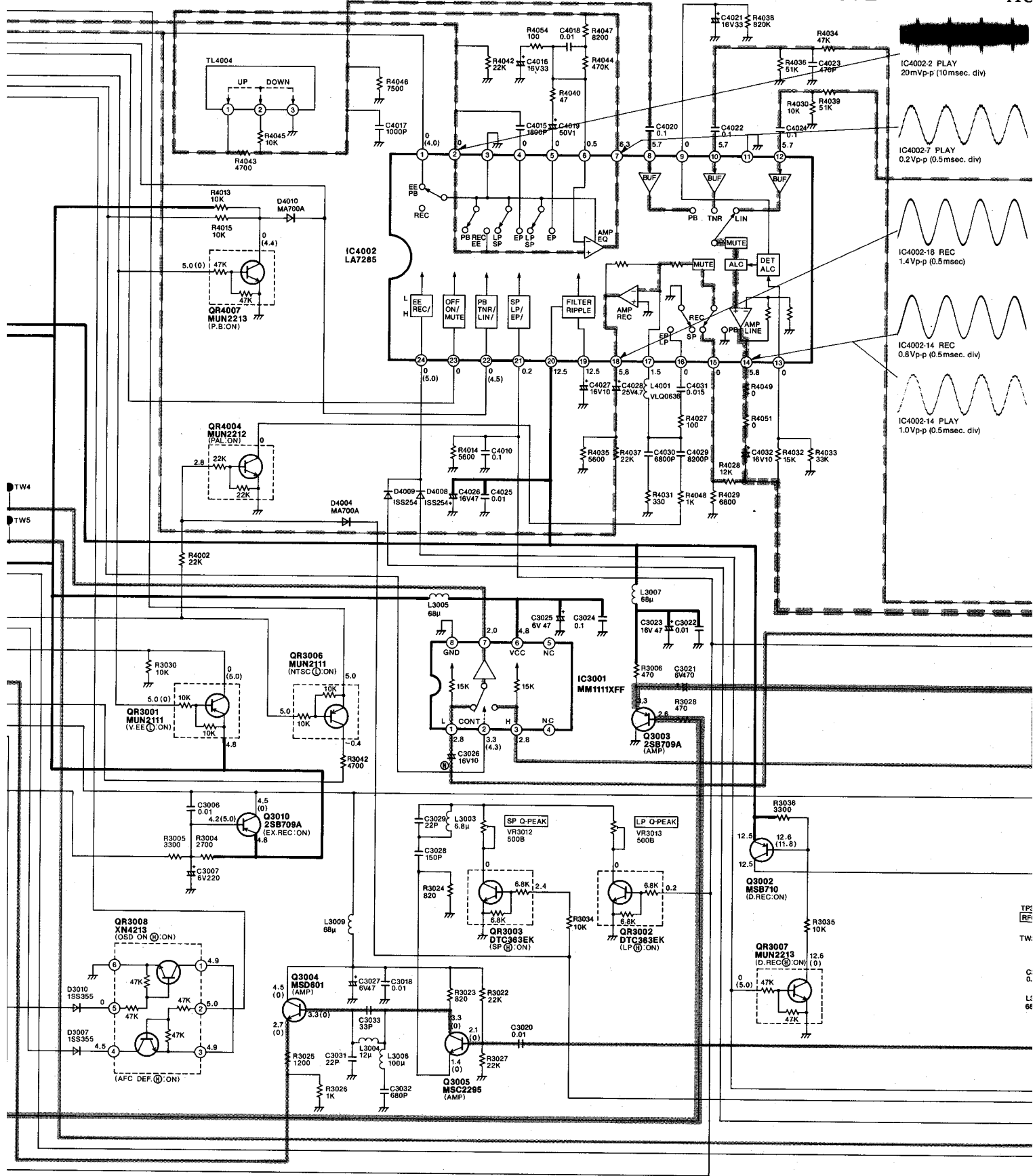


ION IN MAIN SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

AU
AU



MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS () ON THIS DIAGRAM IS RECORD MODE
WITH PAL COLOUR SIGNAL. (SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE
WITH PAL COLOUR SIGNAL. (SP MODE)

5

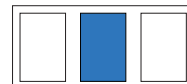
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7

8

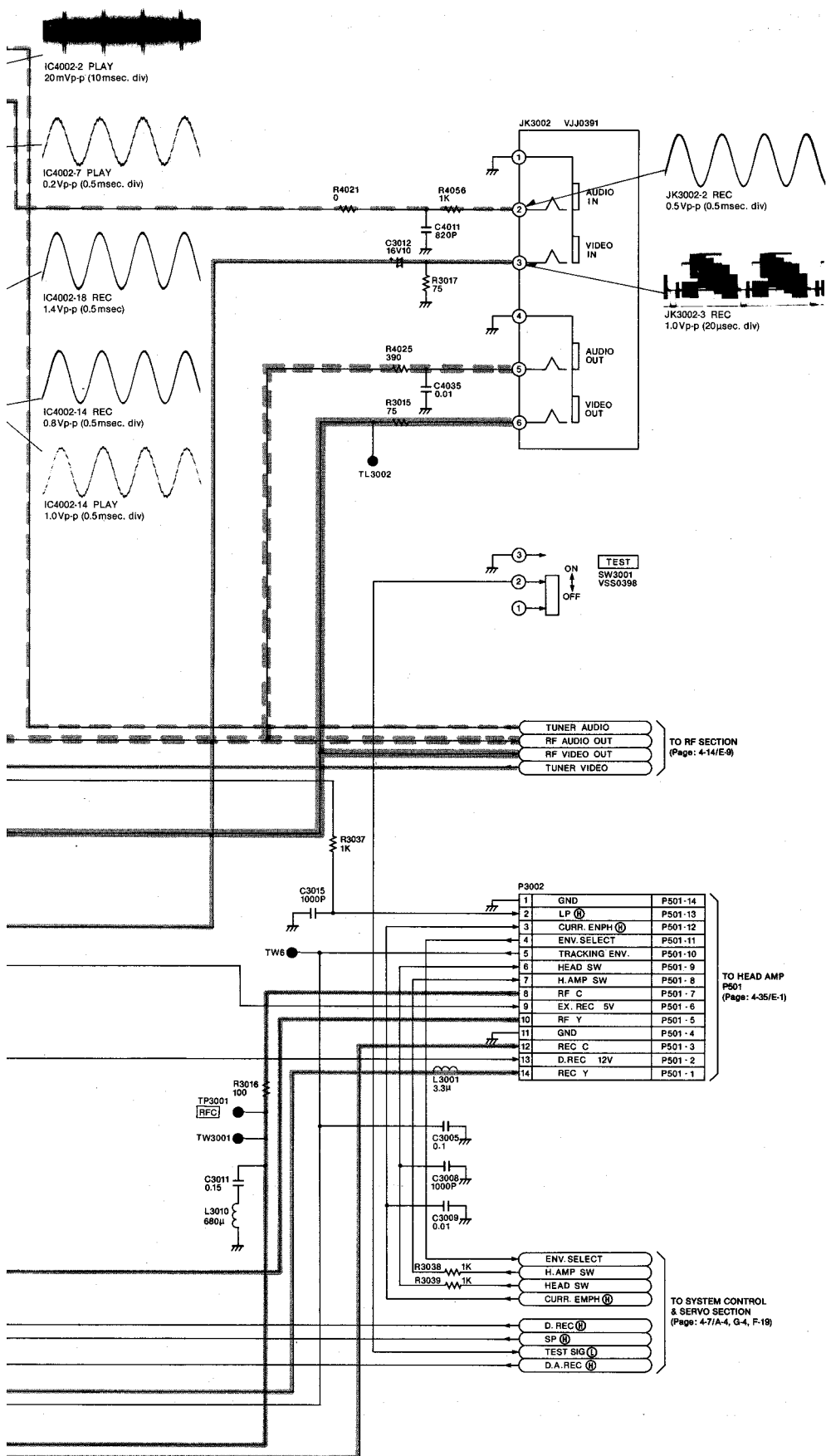
9

10



AUDIO MAIN SIGNAL PATH IN REC MODE

AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



IN THIS DIAGRAM IS PLAYBACK MODE

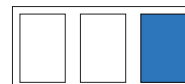
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

10

11

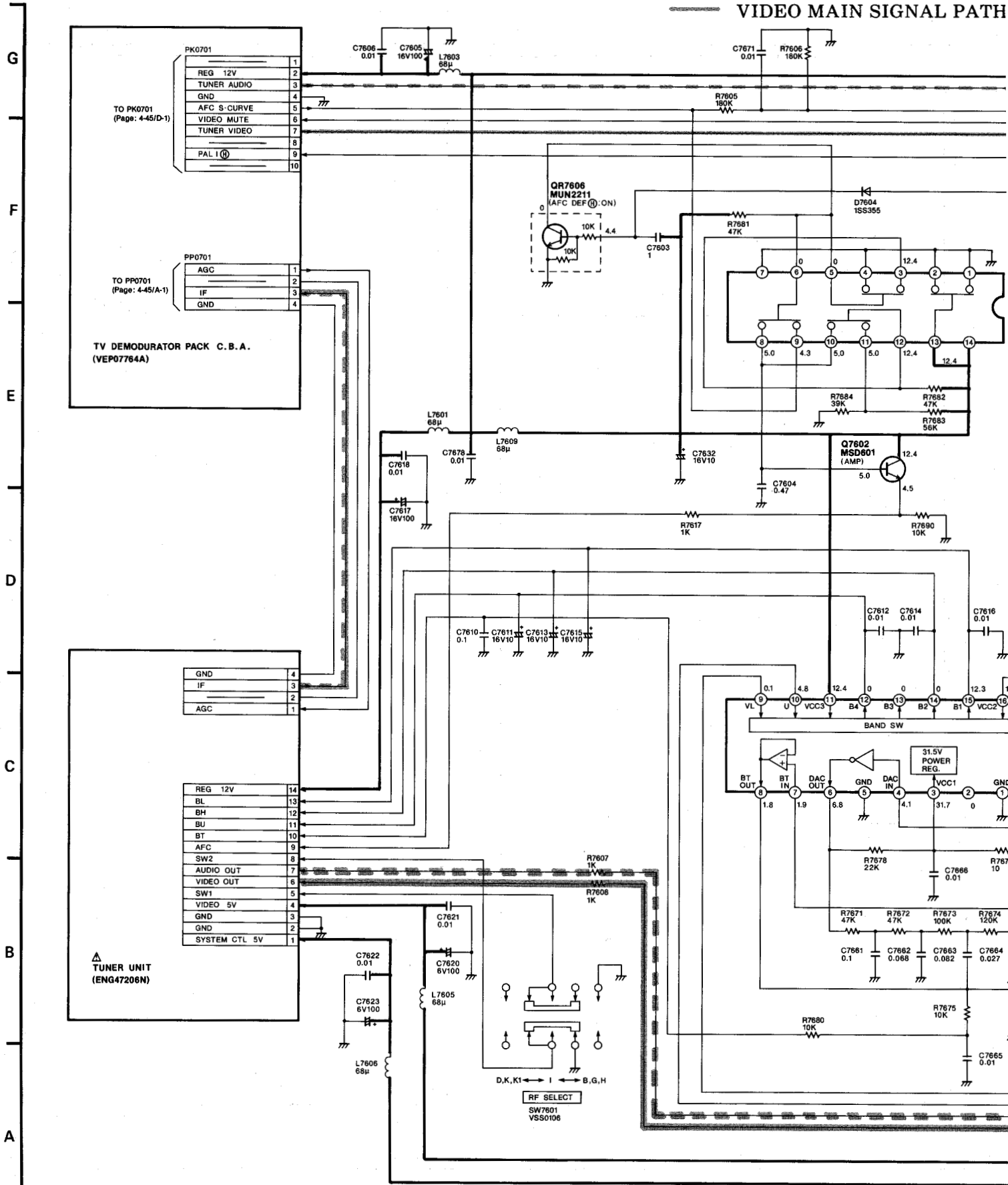
12


13



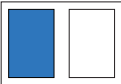
4-5. RF SECTION IN MAIN SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH
VIDEO MAIN SIGNAL PATH



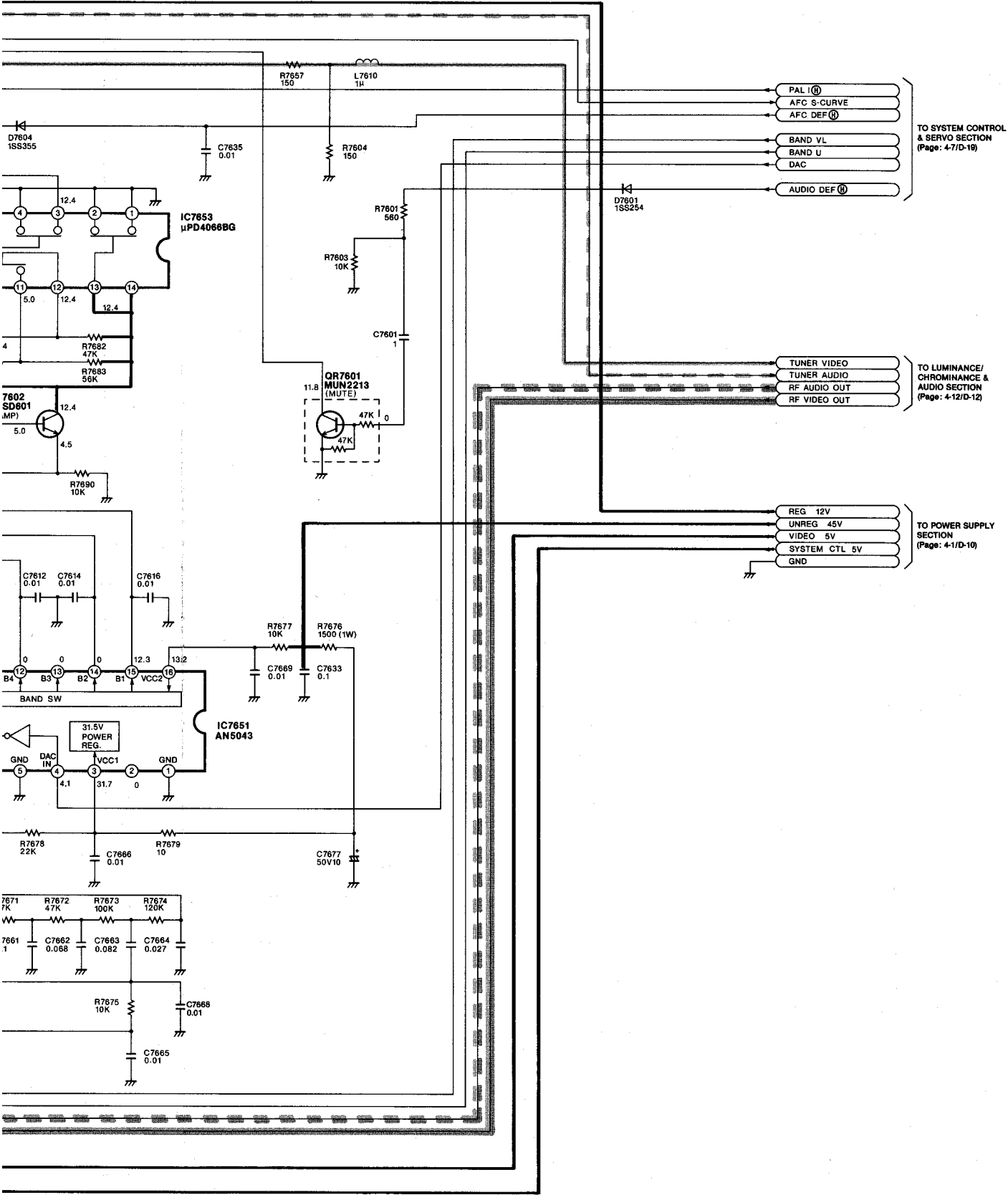
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: THE MEASUREMENT MODE OF THE DC



N SIGNAL PATH IN REC MODE
N SIGNAL PATH IN PLAYBACK MODE

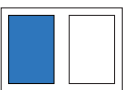
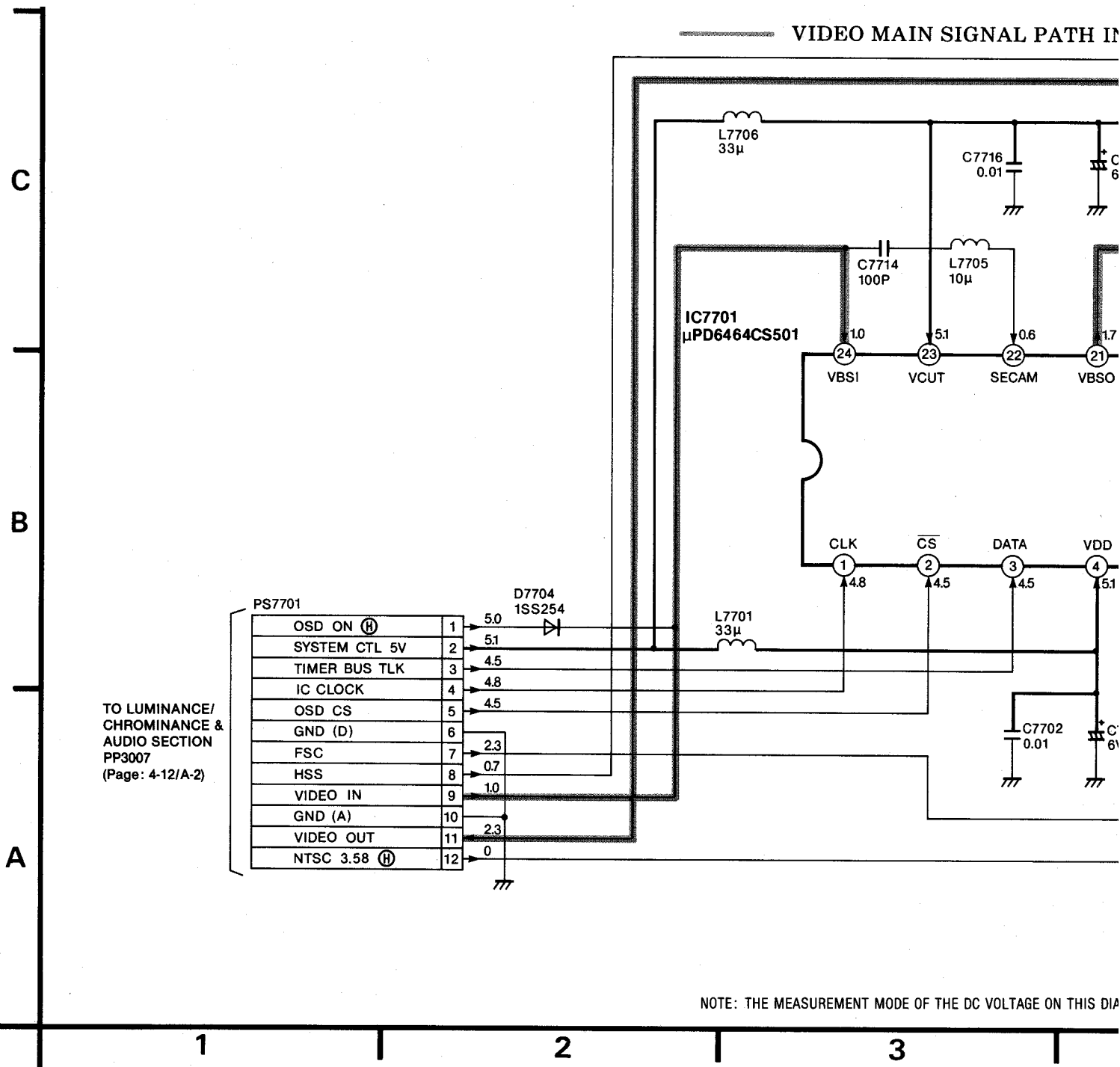
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



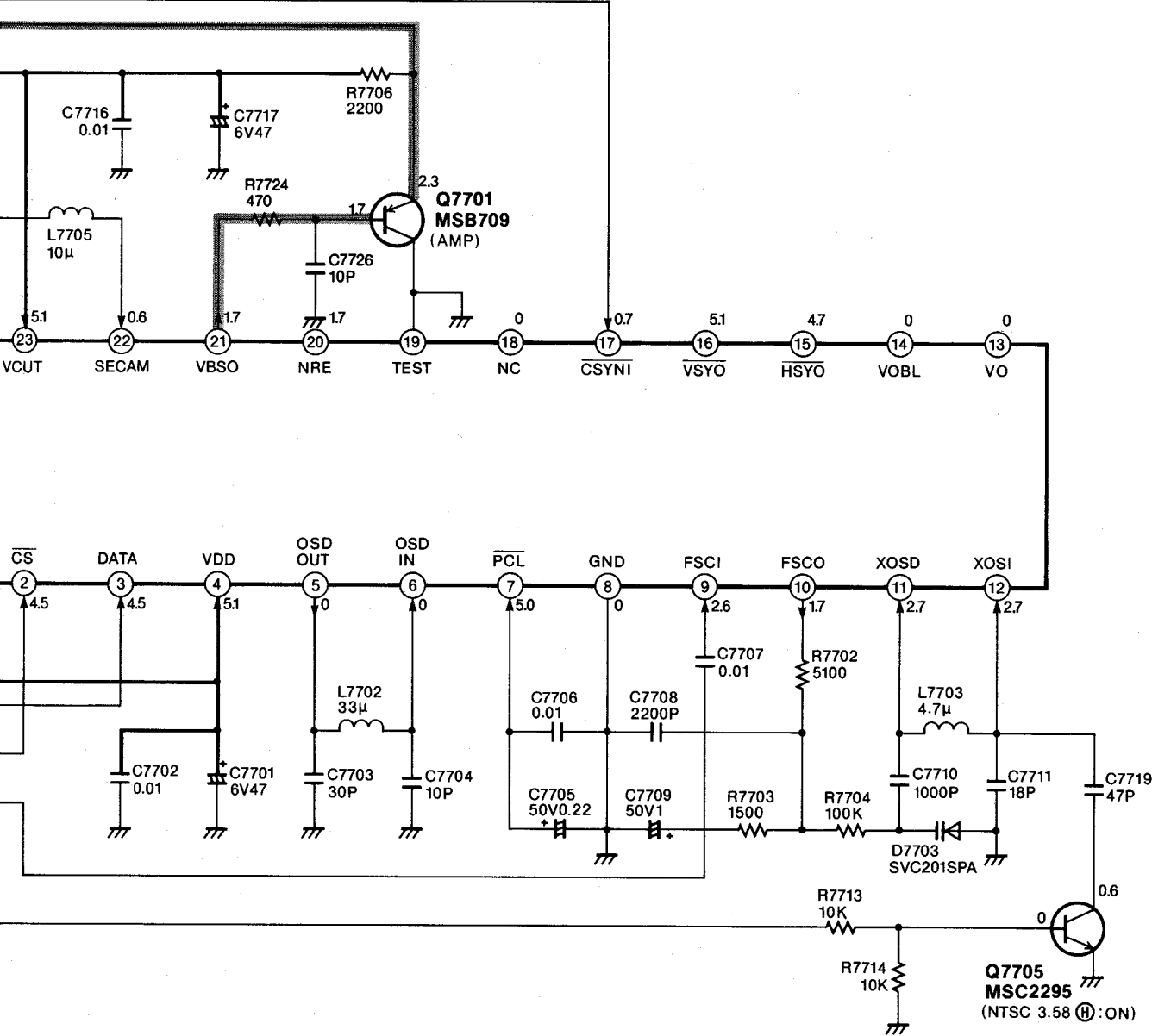
EASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-6. OSD PACK SCHEMATIC DIAGRAM



IN SIGNAL PATH IN REC MODE VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

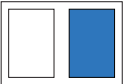


OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE. NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

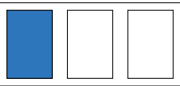
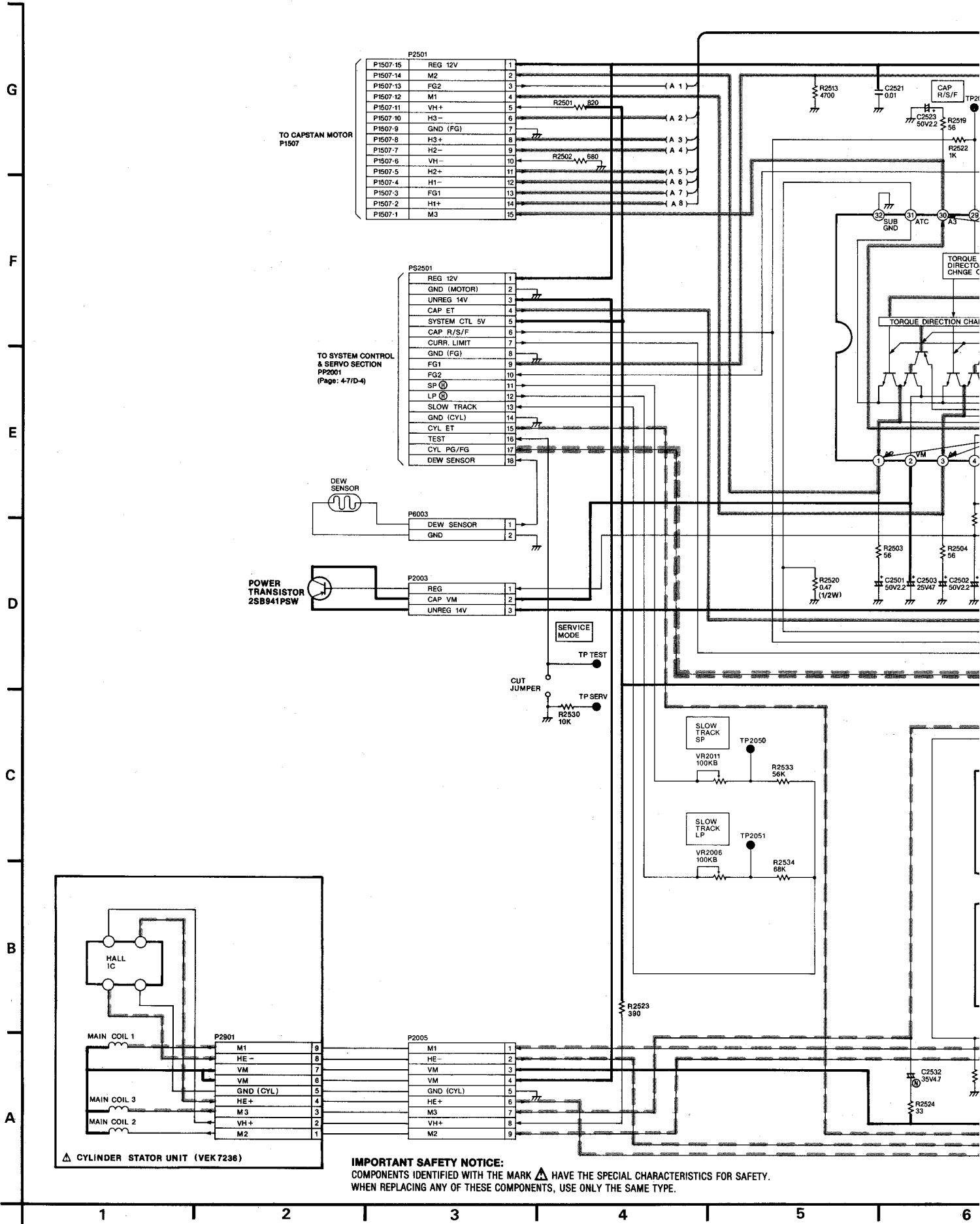
4

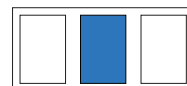
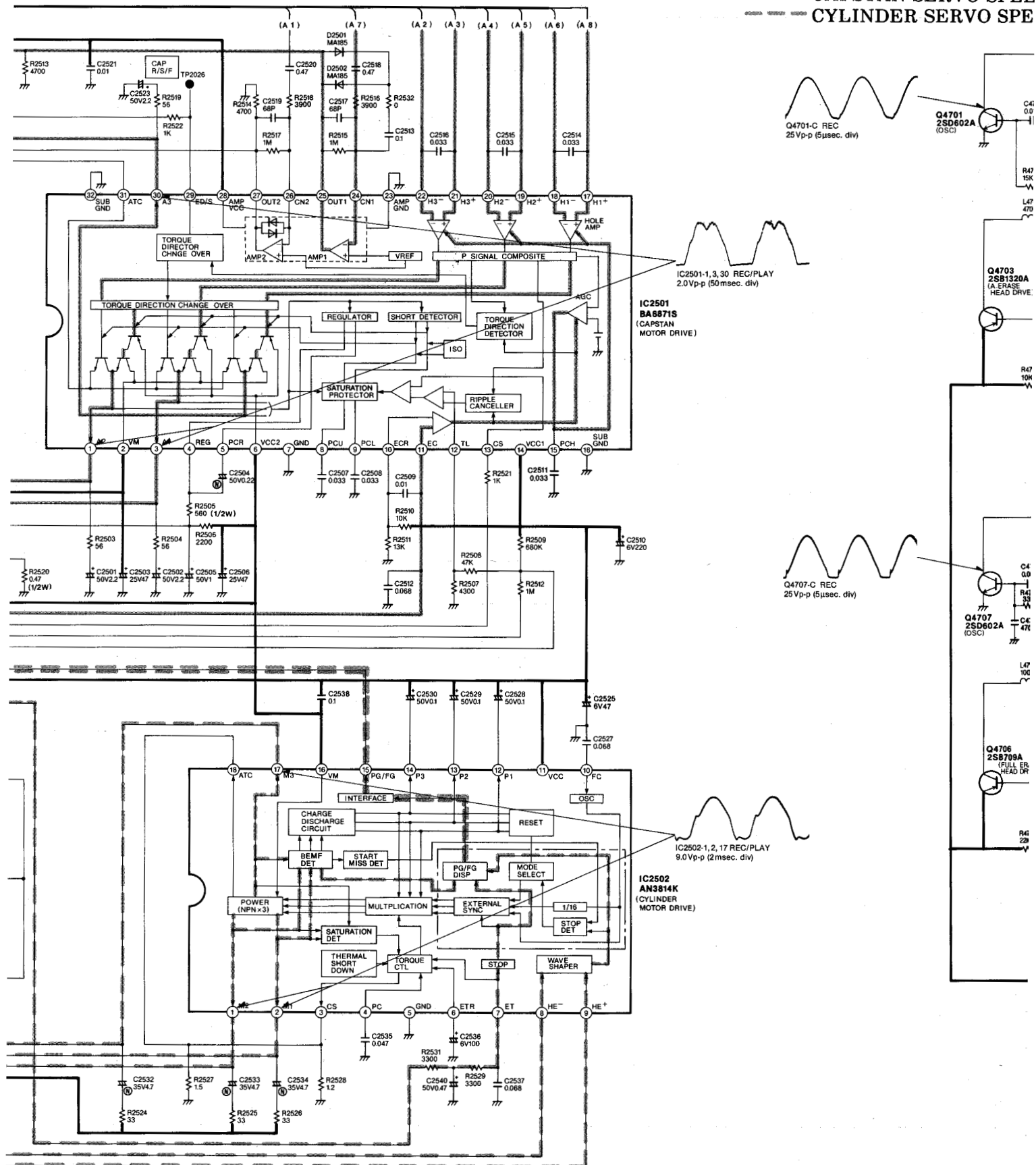
5

6



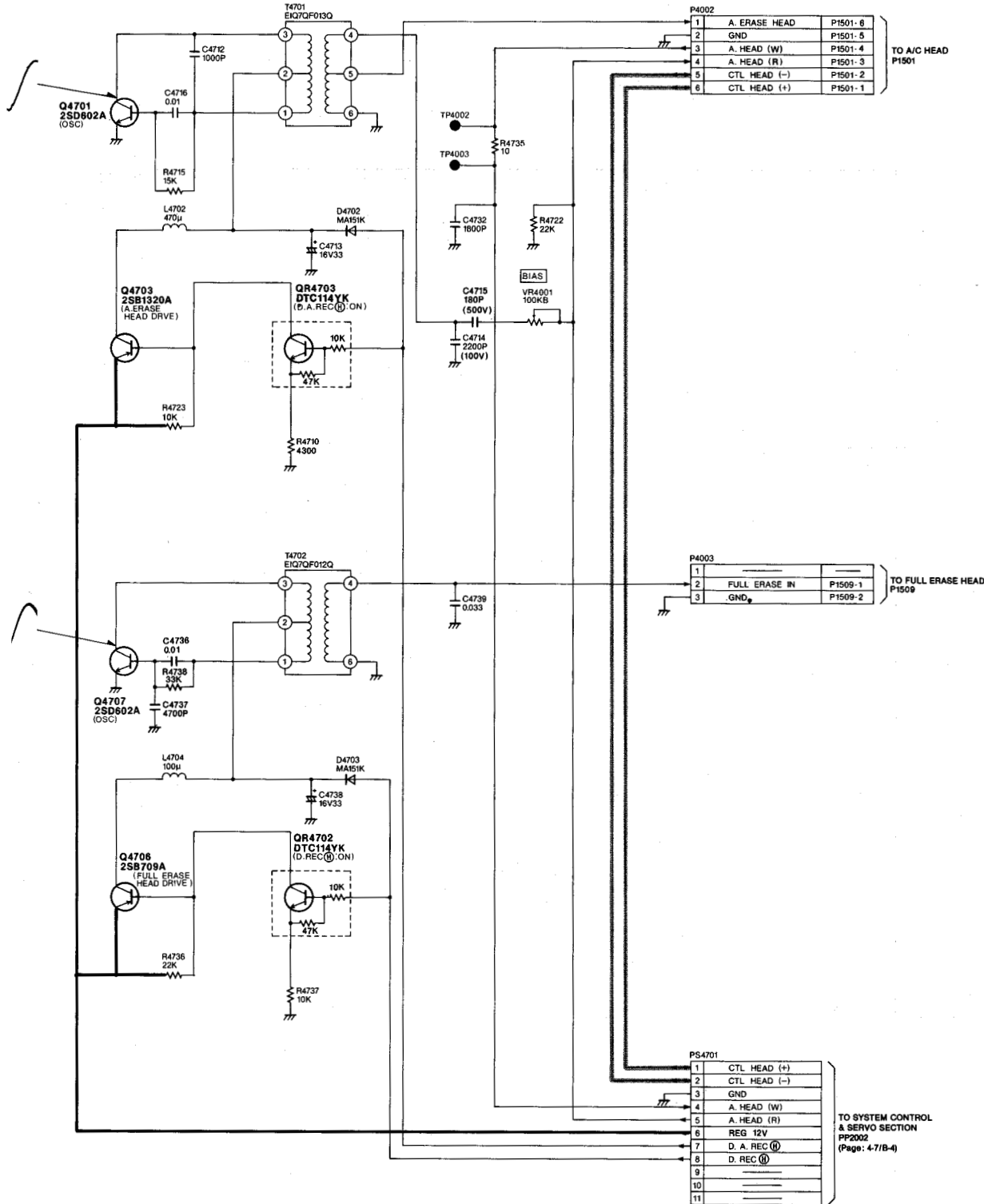
4-9. MOTOR DRIVE & SUB AUDIO PACK SCHEMATIC DIAGRAM



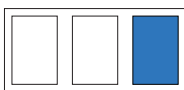


N SERVO SPEED LOOP
ER SERVO SPEED LOOP

———— CAPSTAN SERVO PHASE LOOP
----- CYLINDER SERVO PHASE LOOP



NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.



MOTOR DRIVE & SUB AUDIO PACK ICs VOLTAGE CHART (SP MODE)

REF. NO.	IC2501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0.5	0	0.5	13.8	0	14.4	0	4.6	0.7	2.8	0.1	0.4	0	5.0	1.5	0	2.3	2.2	2.3	2.3
PLAY	1.7	4.4	1.7	12.9	2.1	14.1	0	0.7	0.7	2.8	2.5	0.4	0.1	5.0	1.5	0	2.3	2.3	2.3	2.3
REC	1.8	4.4	1.7	12.7	2.1	14.0	0	0.7	0.7	2.8	2.5	0.4	0.1	5.0	1.5	0	2.3	2.3	2.3	2.3
F.F	6.8	13.9	6.7	9.0	12.0	14.0	0	0.8	0.7	2.8	2.3	0.5	0.2	5.0	1.5	0	2.3	2.3	2.3	2.3
REW	6.7	13.8	6.7	12.7	11.8	14.0	0	0.7	0.7	2.8	2.5	0.4	0.1	5.0	1.5	0	2.3	2.3	2.3	2.3

REF. NO.	IC2501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
STOP	2.3	2.3	0	6.4	6.4	6.4	6.4	12.5	2.1	0.5	0	0								
PLAY	2.3	2.3	0	6.4	6.4	6.4	6.4	12.5	0	1.8	0.1	0								
REC	2.3	2.3	0	6.4	6.4	6.4	6.4	12.5	0	1.8	0.1	0								
F.F	2.3	2.3	0	6.4	6.4	6.4	6.4	12.5	0	6.7	0.1	0								
REW	2.3	2.3	0	6.4	6.3	6.4	6.4	12.5	5.0	6.5	0.2	0								

REF. NO.	IC2502																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
STOP	14.2	14.2	0	0.5	0	2.5	2.5	1.1	1.0	2.7	5.0	3.7	3.7	3.7	1.1	14.4	14.2	0		
PLAY	13.9	13.9	0.1	0.5	0	2.5	2.5	1.1	1.0	2.7	5.0	3.9	3.7	3.7	1.1	14.1	13.9	0.1		
REC	13.7	13.7	0.1	0.5	0	2.5	2.5	1.1	1.0	2.7	5.0	3.7	3.7	3.7	1.1	14.0	13.7	0.1		
F.F	13.8	13.8	0.1	0.5	0	2.5	2.5	1.1	1.0	2.7	5.0	3.7	3.7	3.7	1.1	14.0	13.7	0.1		
REW	13.8	13.8	0.1	0.6	0	2.5	2.5	1.1	1.0	2.7	5.0	3.7	3.7	3.7	1.1	14.0	13.8	0.1		

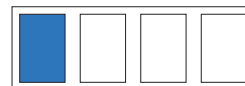
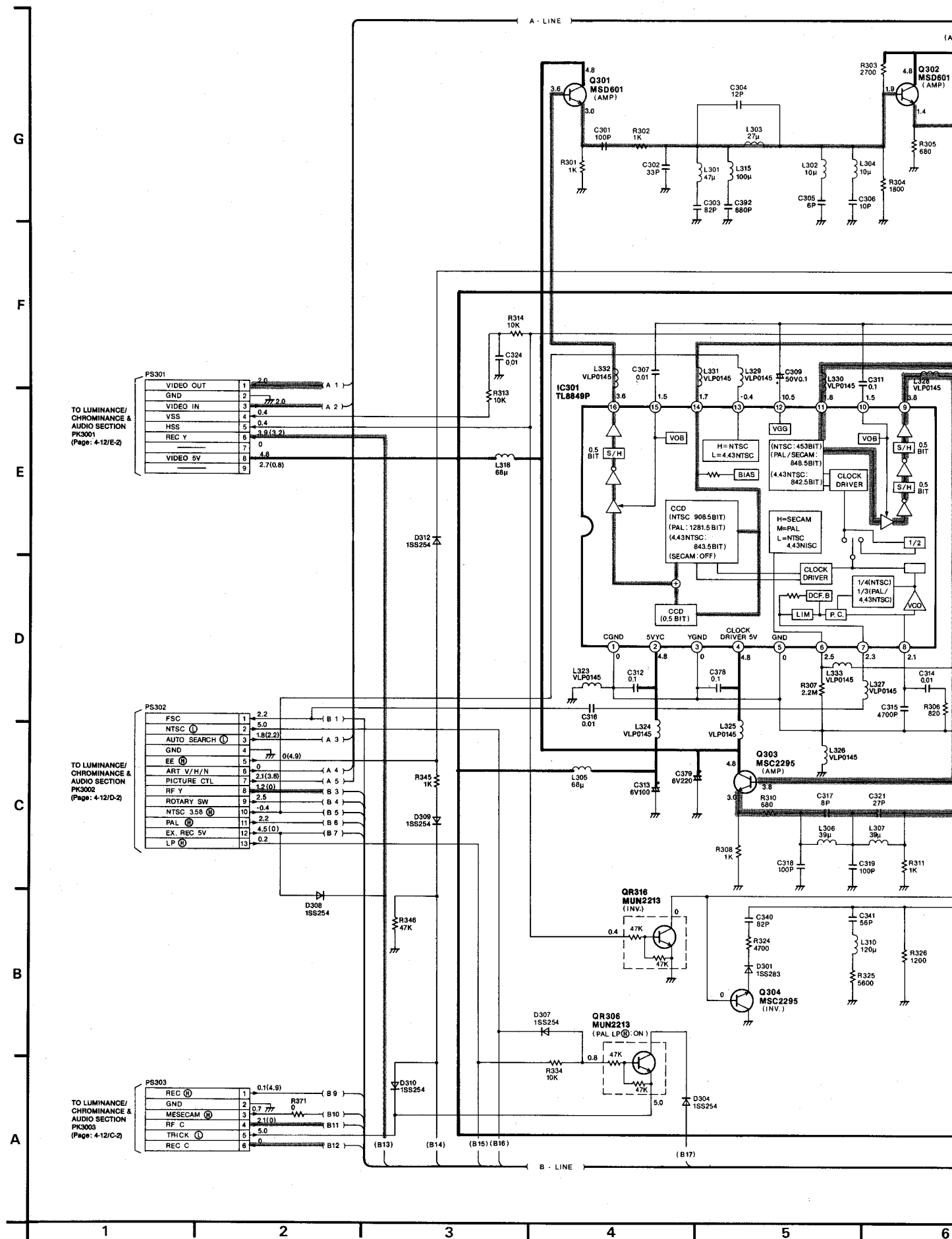
MOTOR DRIVE & SUB AUDIO PACK PINs VOLTAGE CHART (SP MODE)

[illegible]

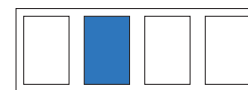
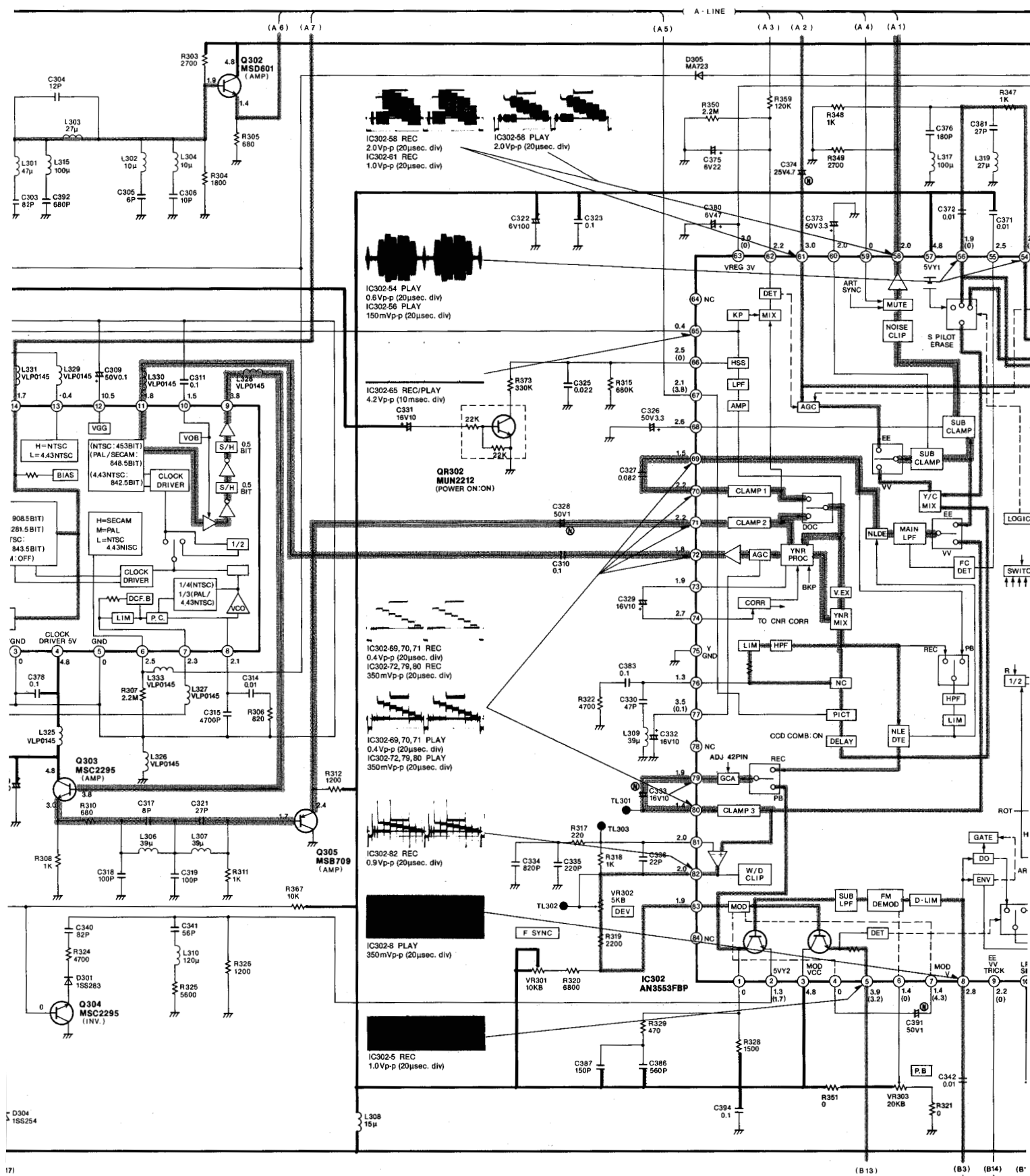
MOTOR DRIVE & SUB AUDIO PACK TRANSISTORS VOLTAGE CHART (SP MODE)

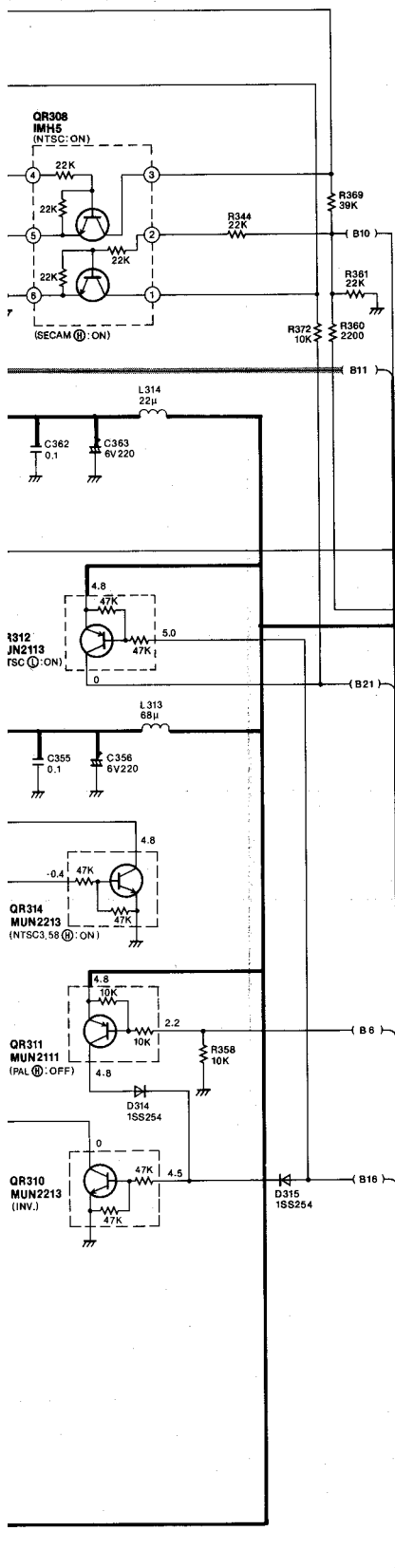
[illegible]

4-10. LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM

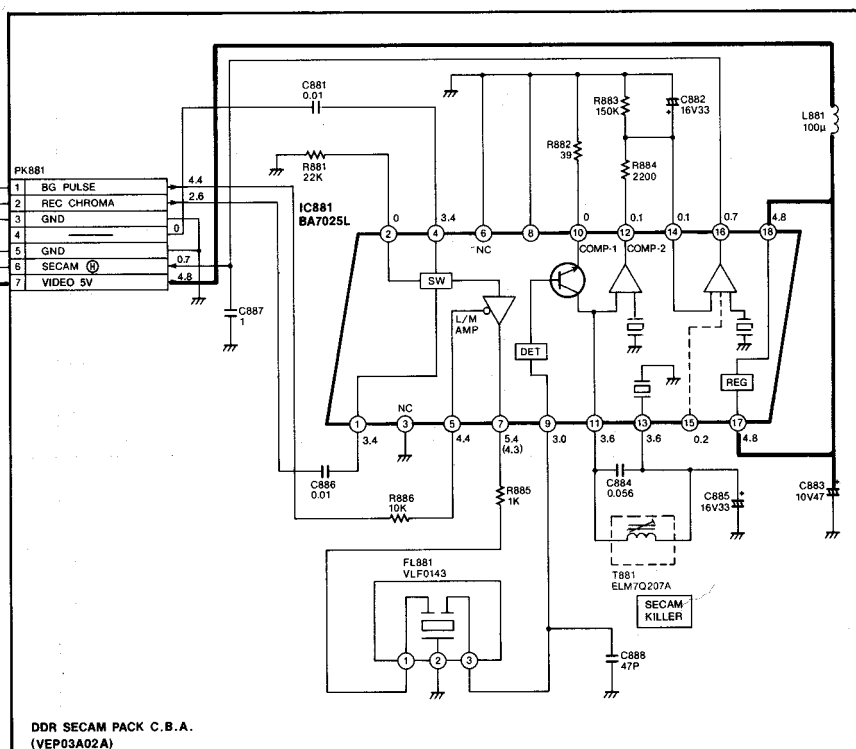


TIC DIAGRAM



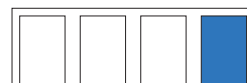


MAIN SIGNAL PATH IN REC MODE MAIN SIGNAL PATH IN PLAYBACK MODE

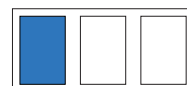
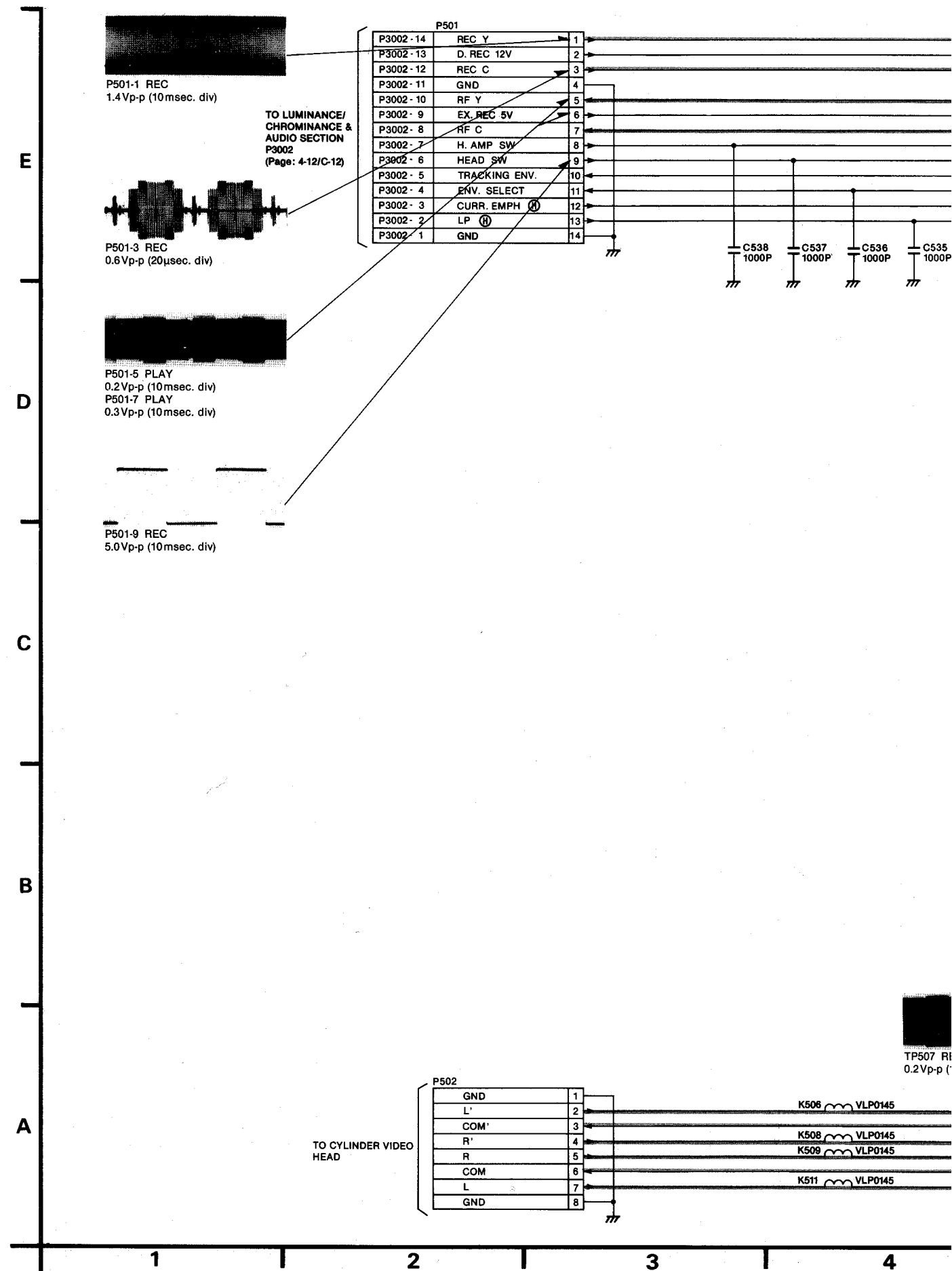


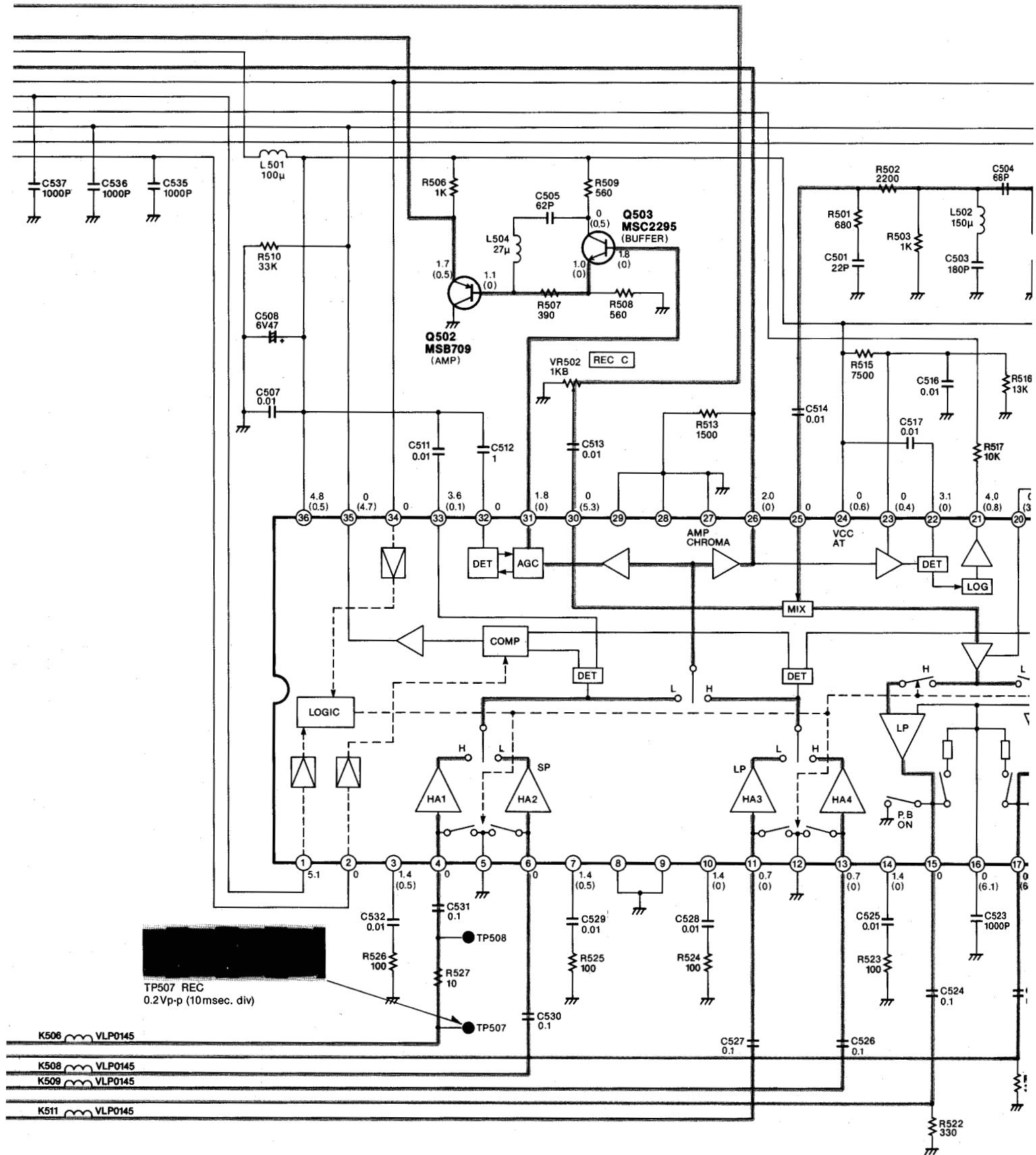
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS () ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

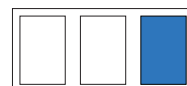
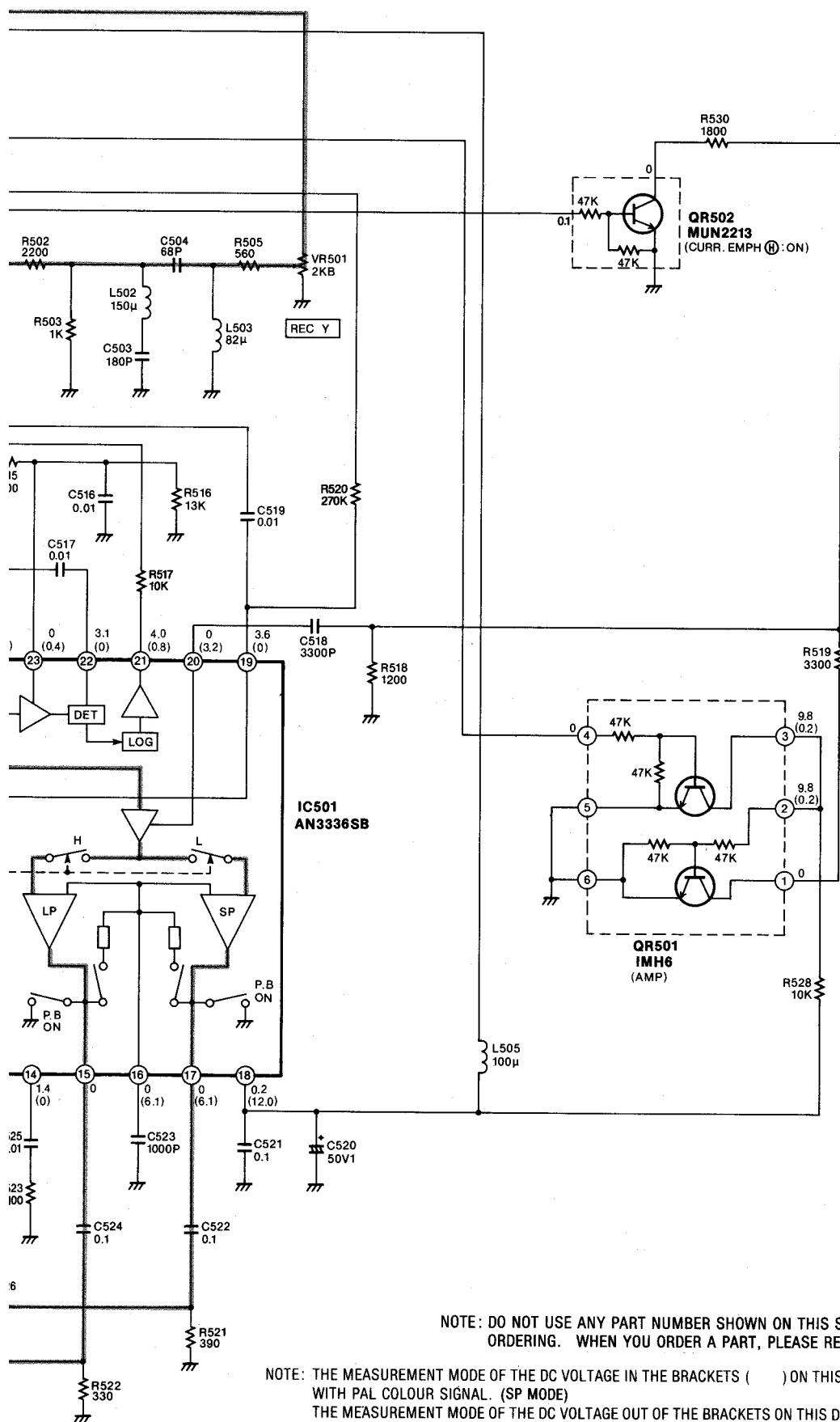


4-13. HEAD AMP SCHEMATIC DIAGRAM

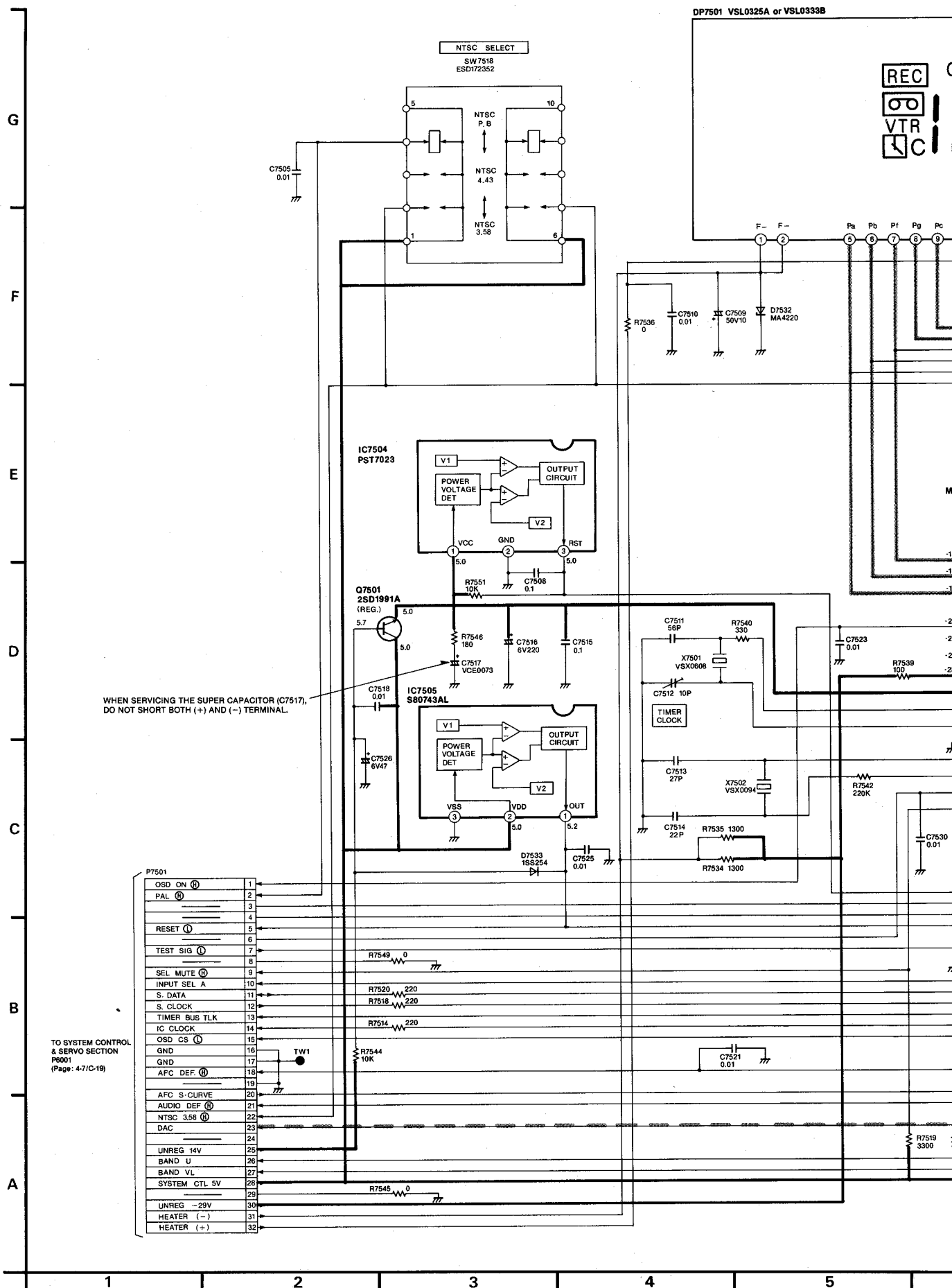




ODE VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

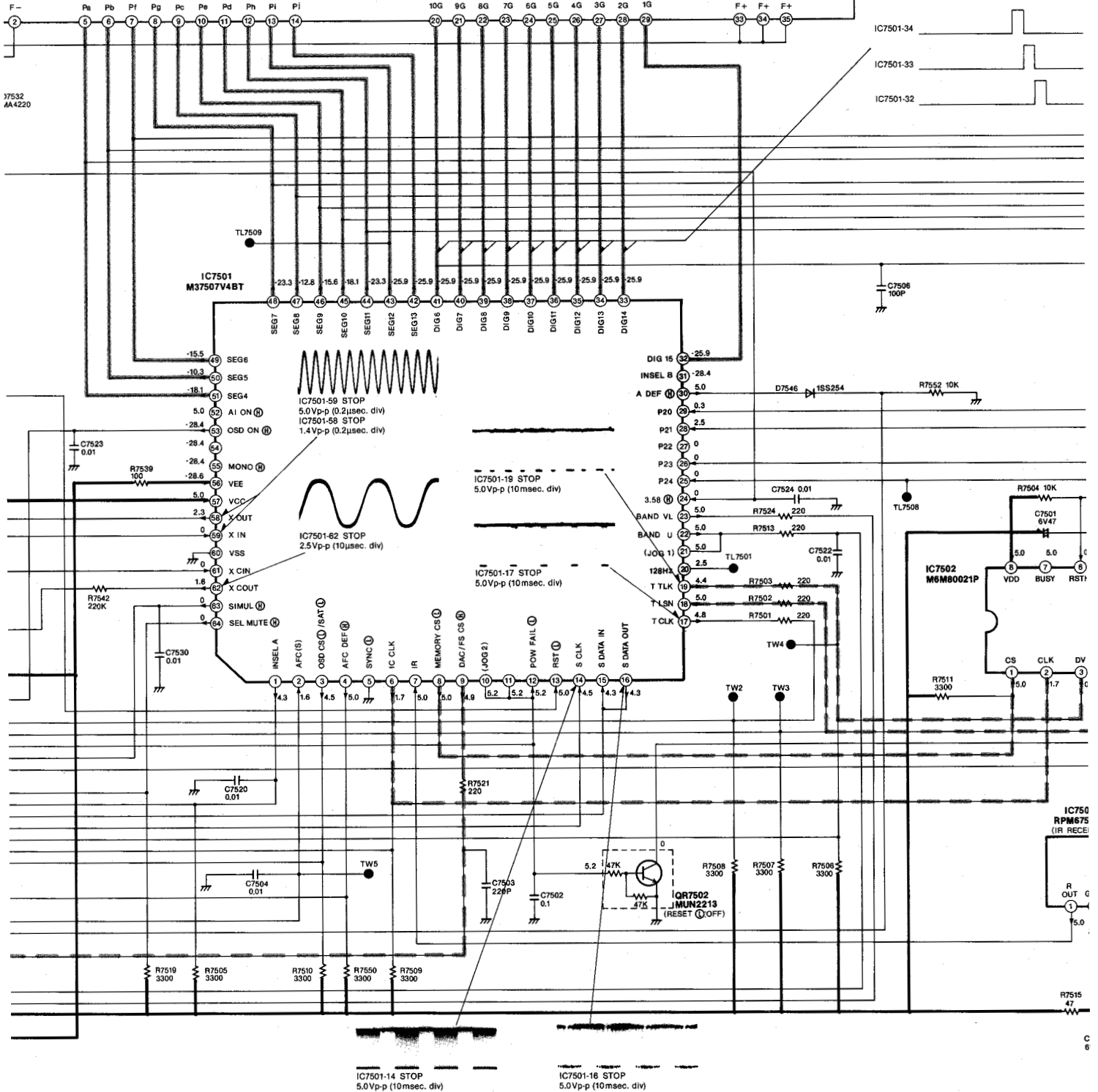
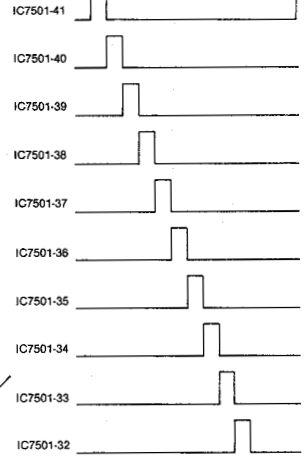


4-14. TIMER SCHEMATIC DIAGRAM



SEGMENT CONTROL SIGNAL

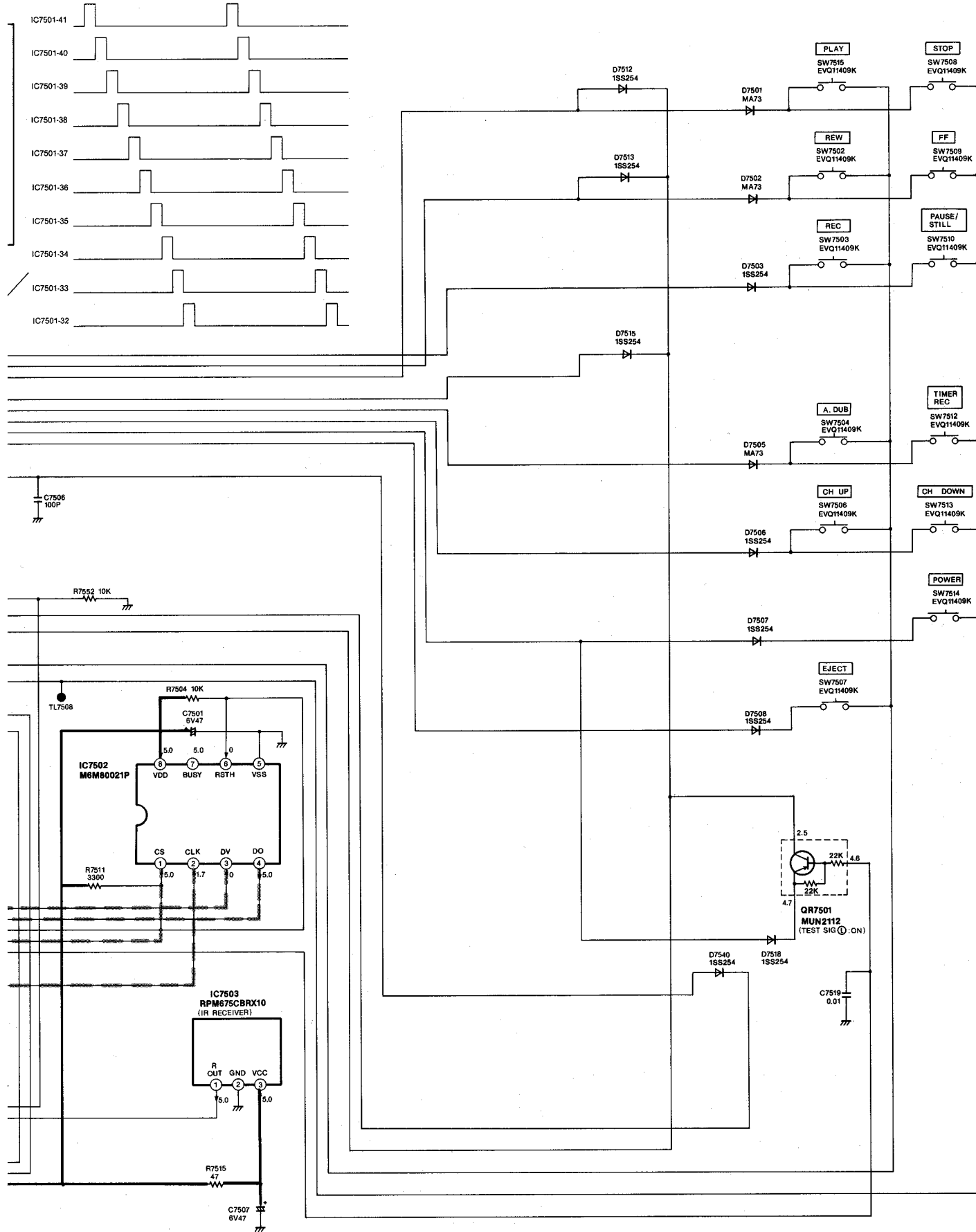
REC OTR REMAIN SP ELP
 VTR 188 8:88:88
 C



FROL SIGNAL

GRID CONTROL SIGNAL

TUNE CONTROL SIGNAL



NOTE: THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

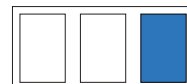
10

11

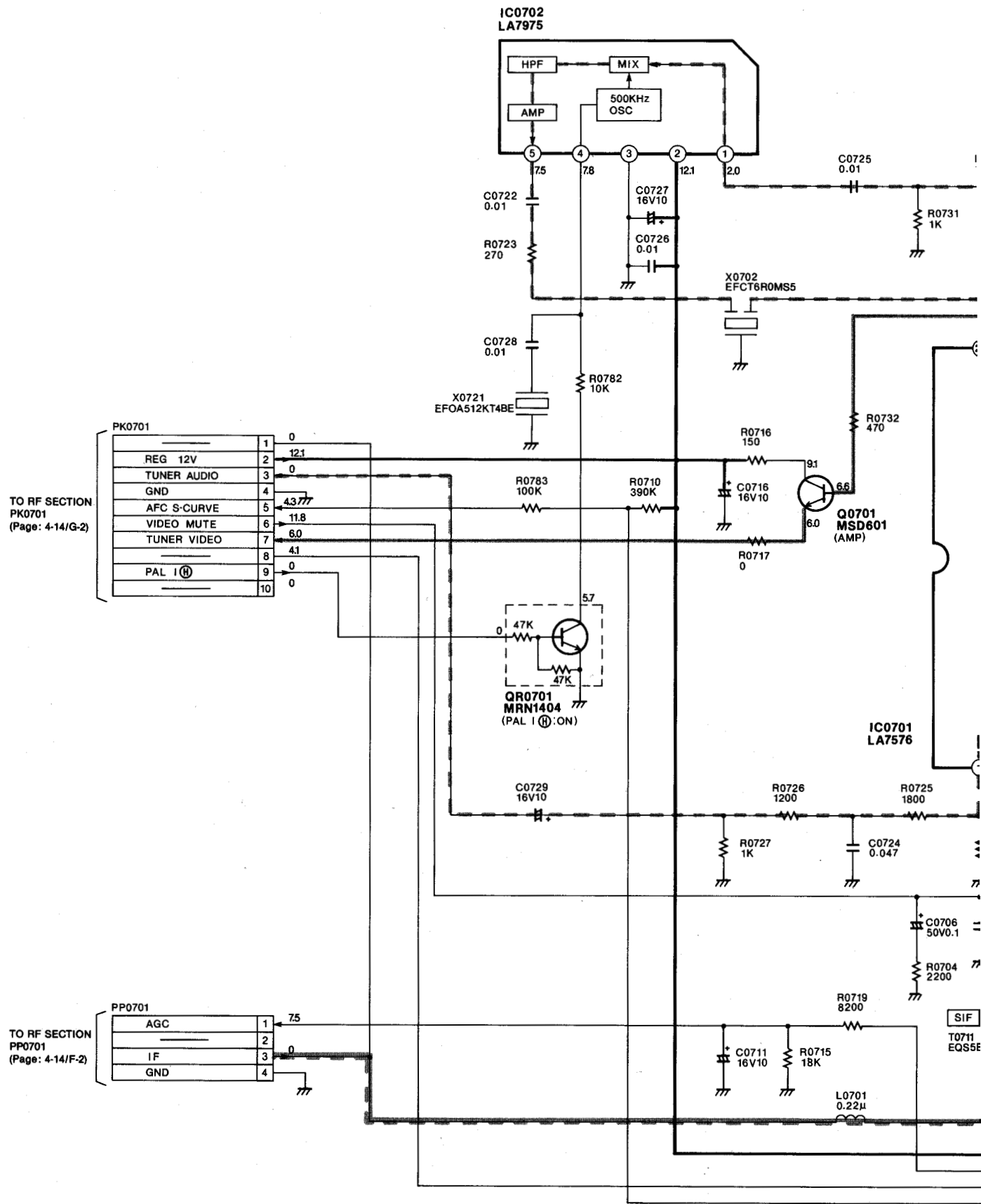
12

13

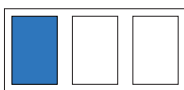
14



4-16. TV DEMODULATOR PACK SCHEMATIC DIAGRAM

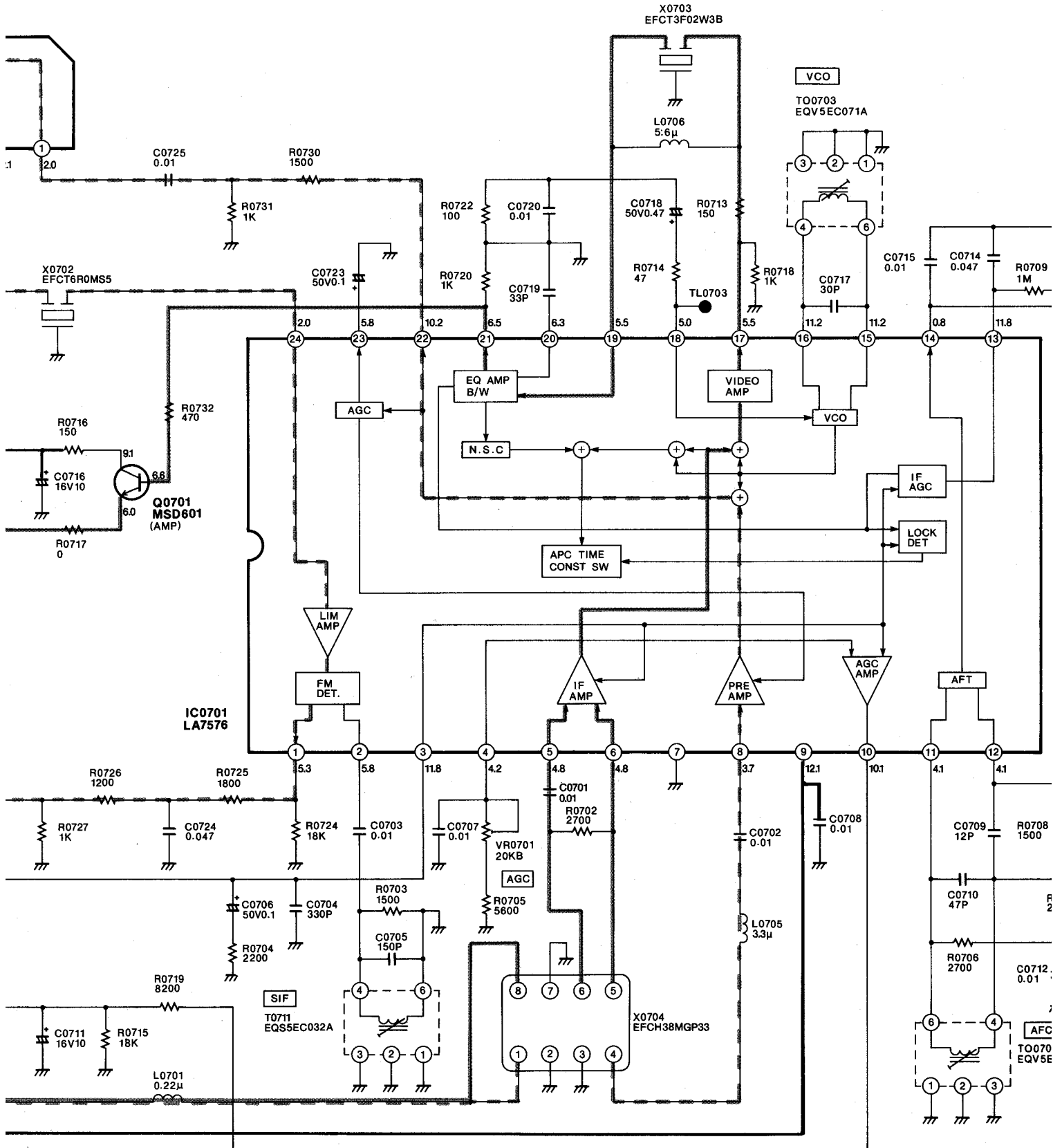


NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS:



VIDEO SIGNAL PATH

AUDIO SIGNAL PATH



AT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

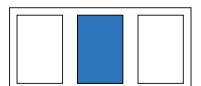
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO P.

4

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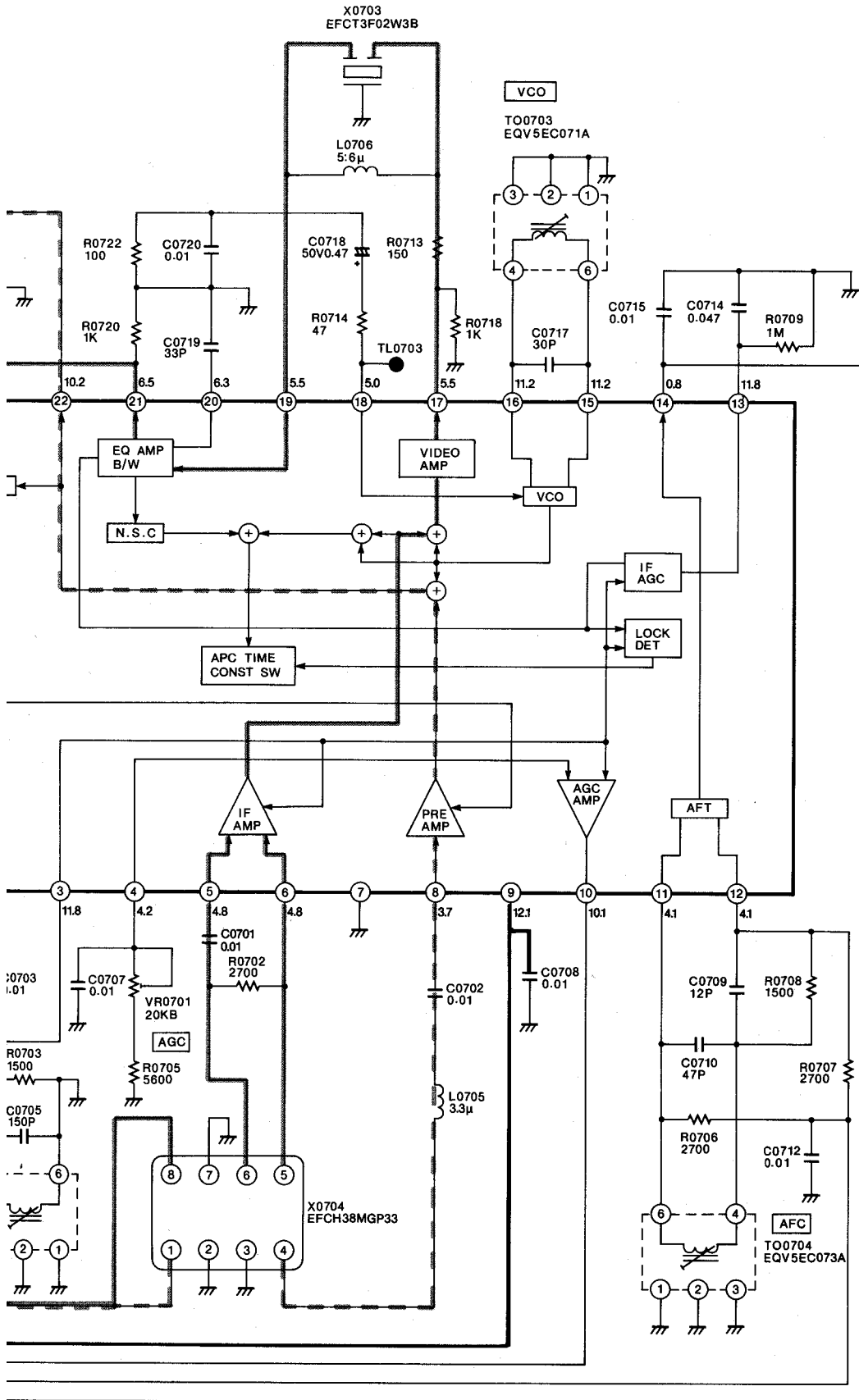
6

7



— VIDEO SIGNAL PATH

--- AUDIO SIGNAL PATH



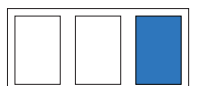
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

5

6

7

8

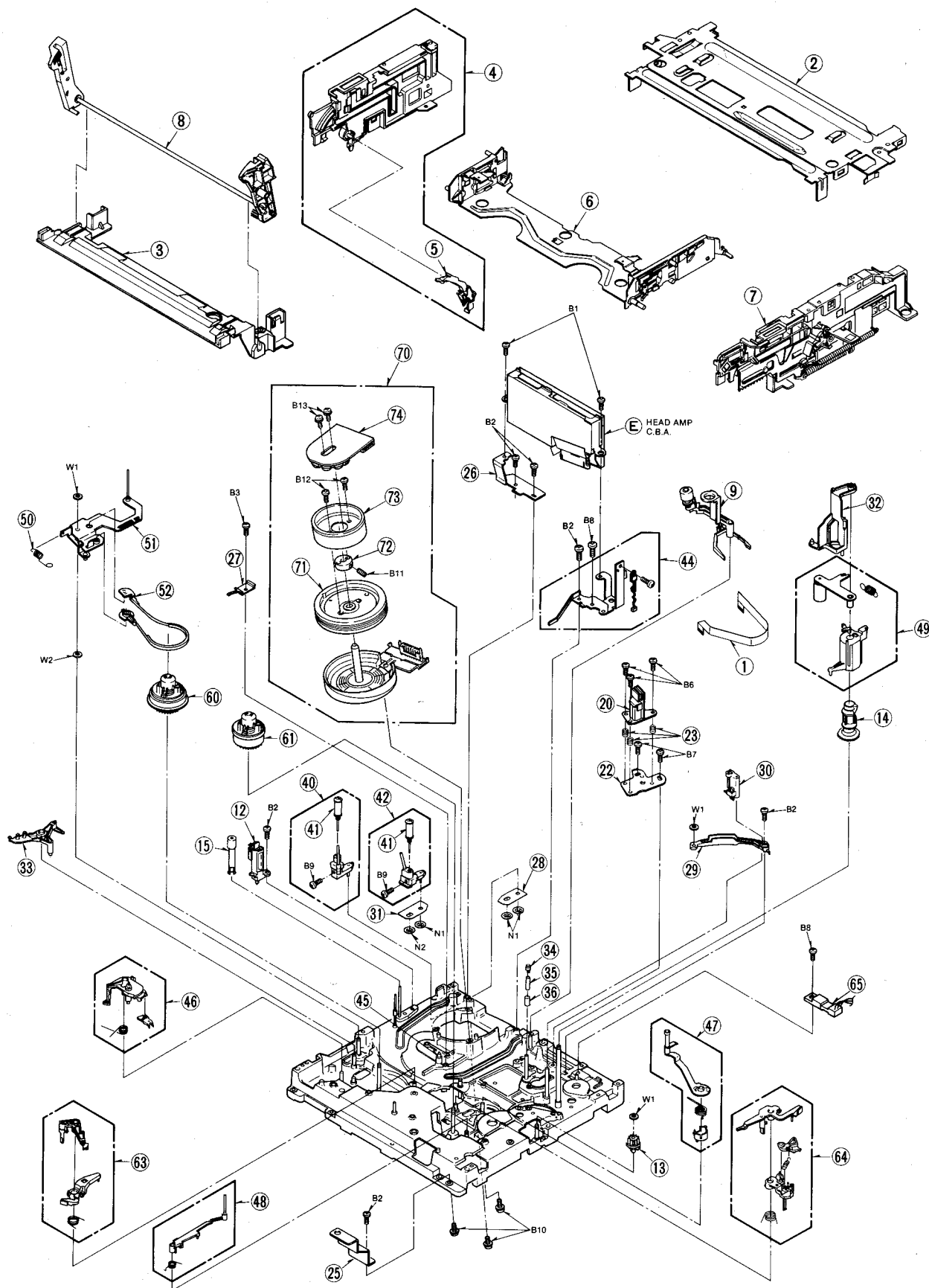


SECTION 5

EXPLODED VIEWS & PARTS LIST

5-1. EXPLODED VIEW & MECHANICAL REPLACEMENT PARTS LIST

① CHASSIS PARTS SECTION (1)



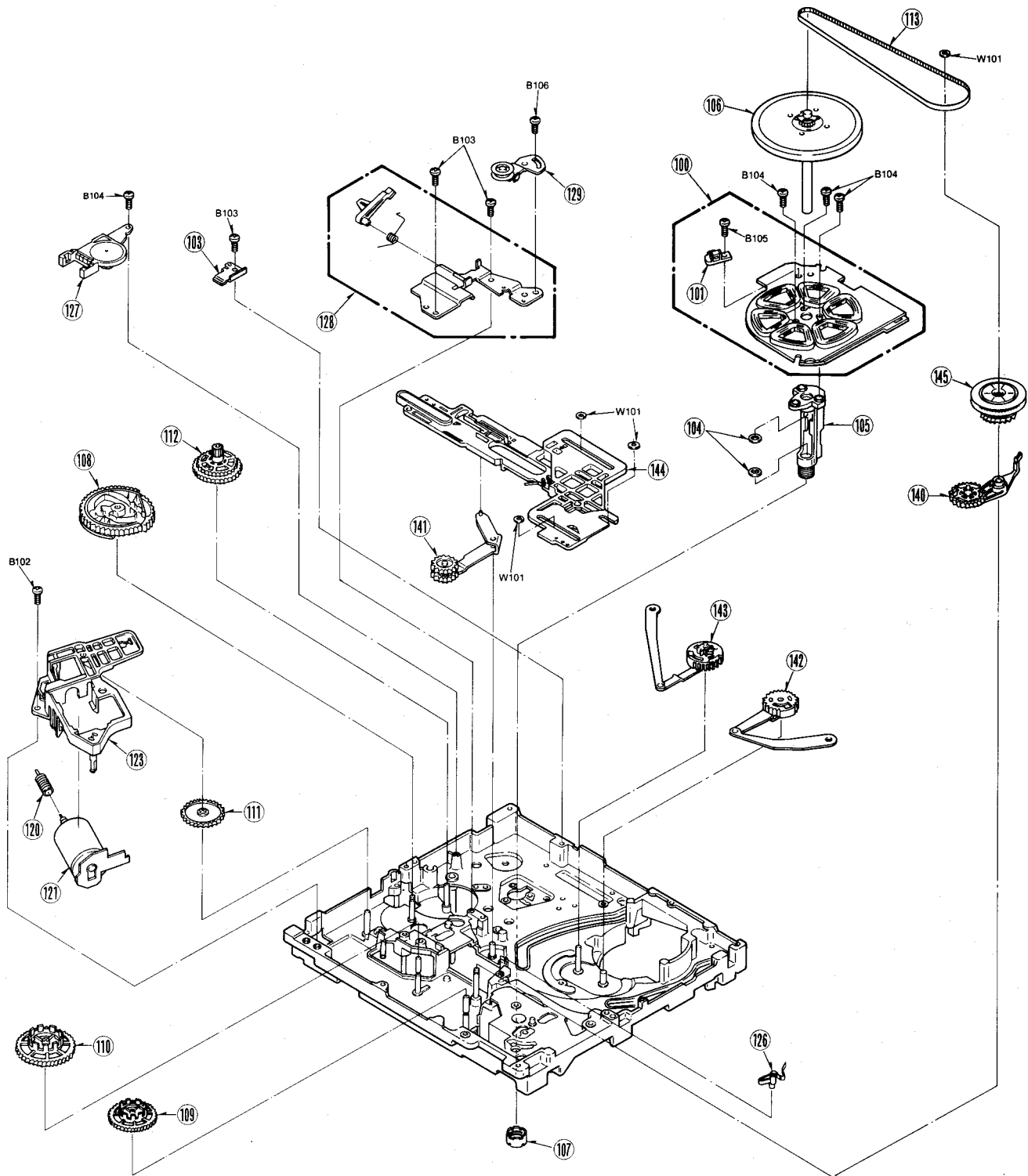
Note:1.* Be sure to make your orders of replacement parts according to this list.
 2.IMPORTANT SAFETY NOTICE
 Components identified with the mark (!) have the special characteristics for safety. When replacing any of these components,use only the same type.

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 Components identified with the mark (!) have the special characteristics for safety. When replacing any of these components,use only the same type.

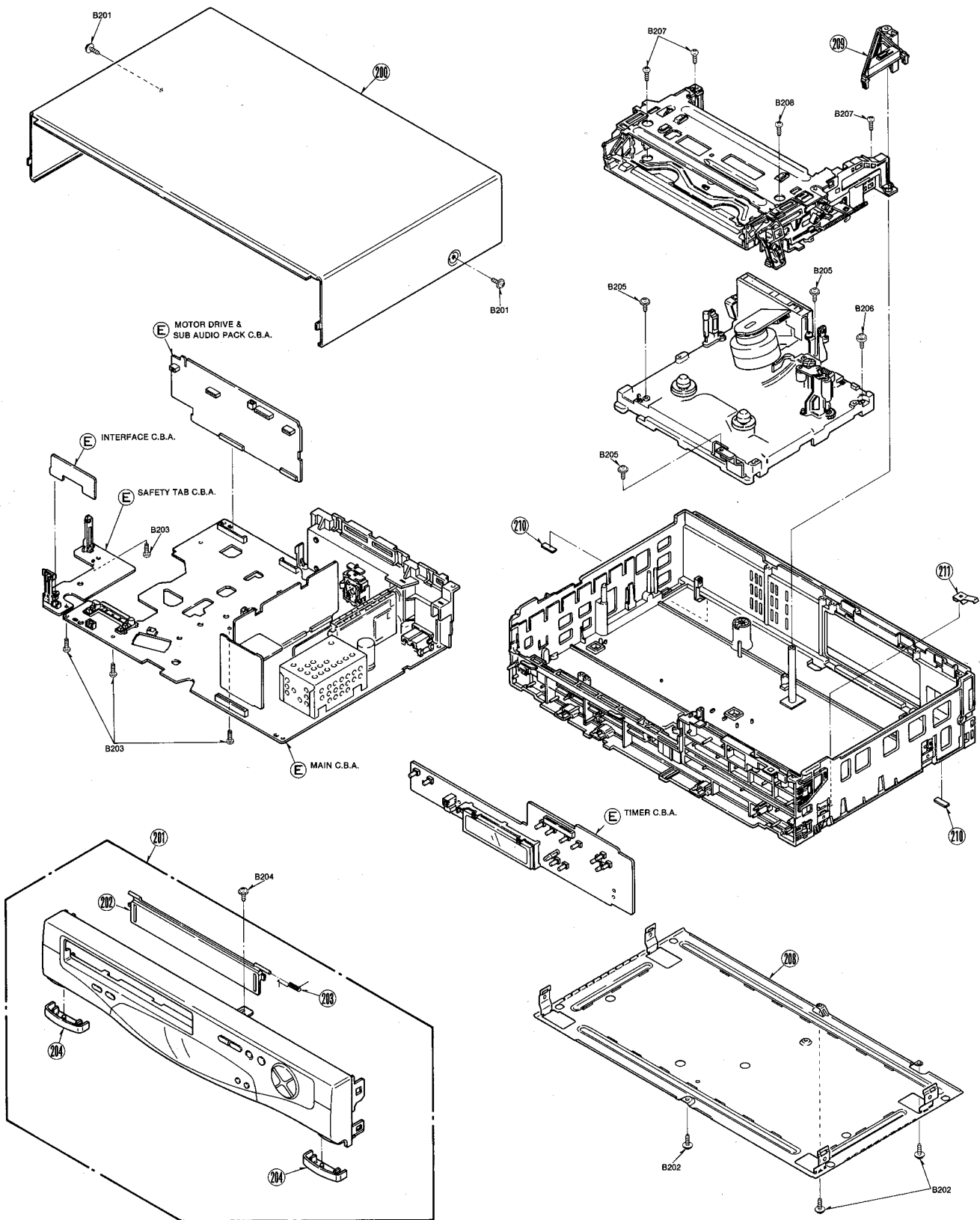
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1(1)	VWJ0743	FLEXIBLE CABLE (6P)	1	P4002-P1501
2(1)	VMA8644	TOP PLATE	1	
3(1)	VMA8787	CASSETTE GUIDE	1	
4(1)	VXA4660	SIDE PLATE (L) UNIT	1	
5(1)	VML2902	OPENER LEVER	1	
6(1)	VXA4661	CASSETTE HOLDER PLATE UNIT	1	
7(1)	VXA4806	SIDE PLATE (R) UNIT	1	
8(1)	VXP1339	MAIN SHAFT UNIT	1	
9(1)	VXL2440	CLEANER ARM UNIT	1	
12(1)	VBS0052	FE HEAD	1	
13(1)	VDG0871	CARRIAGE CONNECTION GEAR	1	
14(1)	VDG0886	PINCH CAM GEAR	1	
15(1)	VXP1402	IMPEDANCE ROLLER UNIT	1	
20(1)	VED0205	A/C HEAD (1) UNIT	1	
22(1)	VMA8624	A/C HEAD BASE	1	
23(1)	VMB2515	A/C HEAD SPRING	3	
25(1)	VMA8761	MOUNT ANGLE	1	
26(1)	VMA8763	HEAD AMP MOUNT ANGLE (L)	1	
27(1)	VMC0917	EARTH SPRING	1	
28(1)	VMA8874	INCLIND BASE HOLDER (S)	1	
29(1)	VMD2078	P5 STOPPER BASE	1	
30(1)	VXA4927	P5 POST STOPPER	1	
31(1)	VMA8873	INCLIND BASE HOLDER (T)	1	
32(1)	VMD2101	OPENER PIECE	1	
33(1)	VML2776	TENSION SPRING ARM	1	
34(1)	VMX1544	P4 UPPER LIMITER	1	
35(1)	VMX2175	P4 SLEEVE	1	
36(1)	VMX2176	P4 LOWER LIMITER	1	
40(1)	VXA5245KIT	INCLINED BASE (S) UNIT	1	OR VXA4982KIT
41(1)	VXP1415	ROLLER POST	2	
42(1)	VXA5247KIT	INCLINED BASE (T) UNIT	1	OR VXA4984KIT
44(1)	VXA5170	HEAD AMP MOUNT ANGLE (R) U.	1	
45(1)	VMS5383	CASSETTE POSITION FIXTURE	1	
46(1)	VXL2310	REVIEW ARM UNIT	1	
47(1)	VXL2306	P5 ARM UNIT	1	
48(1)	VXL2394	TAKE UP TENSION REGULATOR	1	
		ARM UNIT		
49(1)	VXL2246	PINCH ARM UNIT	1	
50(1)	VMB2434	TENSION SPRING	1	
51(1)	VXL2309	TENSION ARM (1) UNIT	1	
52(1)	VXZ0310	TENSION BAND UNIT	1	
60(1)	VXR0221	SUPPLY REEL TABLE UNIT	1	
61(1)	VXR0222	TAKE UP REEL TABLE UNIT	1	
63(1)	VXZ0312	SUPPLY BRAKE ARM UNIT	1	
64(1)	VXZ0313	TAKE UP BRAKE ARM UNIT	1	
65(1)	2SB941PSW	POWER TRANSISTOR	1	
70(1)	VEG1163	CYLINDER UNIT	1	
71(1)	VEH0679	UPPER CYLINDER UNIT	1	
72(1)	VDB1256	CYLINDER RETAINER	1	
73(1)	VXP1500	CYLINDER ROTOR UNIT	1	
74(1)	VEK7236	CYLINDER STATOR UNIT	1	<1>
B1(1)	VHD0773	SCREW	2	
B2(1)	XTV26+6F	SCREW	6	
B3(1)	XTV26+4F	SCREW	1	
B6(1)	VHD0762	SCREW	3	
B7(1)	XTV26+6FZ	SCREW	2	
B8(1)	XTV26+8F	SCREW	2	
B9(1)	XQN2+AJ4	SCREW	2	
B10(1)	VHD0342	SCREW	3	
B11(1)	VHD0842	SCREW	1	
B12(1)	VHD0843	SCREW	2	
B13(1)	VHD0844	SCREW	2	
N1(1)	VHN0192	NUT	3	
N2(1)	VHN0193	NUT	1	
W1(1)	VMX2208	WASHER	3	
W2(1)	XWGV26D5G	WASHER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
100(2)	VEK5927	CAPSTAN STATOR UNIT	1	
101(2)	VBK0061	FG HEAD	1	
103(2)	VMA8930	ROTOR STOPPER	1	
104(2)	VMX1927	OIL SEAL	2	
105(2)	VXD0140	HOUSING UNIT	1	
106(2)	VXP1519	CAPSTAN ROTOR UNIT	1	
107(2)	VXQ0297	THRUST SCREW UNIT	1	
108(2)	VDG0913	MAIN CAM GEAR	1	
109(2)	VDG0956	SUPPLY REEL GEAR	1	
110(2)	VDG0957	TAKE UP REEL GEAR	1	
111(2)	VDG0868	WORM WHEEL GEAR	1	
112(2)	VDG0885	SUB CAM GEAR	1	
113(2)	VDV0235	TIMING BELT	1	
120(2)	VDG0866	WORM GEAR	1	
121(2)	VEM0427	LOADING MOTOR (1) UNIT	1	
123(2)	VMD1942	MOTOR BRACKET	1	
126(2)	VML2725	IDLER CONTROL LEVER	1	
127(2)	VSS0365	MODE SW	1	
128(2)	VXA5138	SS BRAKE BASE UNIT	1	
129(2)	VXA4799	TENSION ROLLER UNIT	1	
140(2)	VXL2378	IDLER ARM UNIT	1	
141(2)	VXL2372	DIRECT LEVER UNIT	1	
142(2)	VXL2299	SUPPLY LOADING ARM UNIT	1	
143(2)	VXL2300	TAKE UP LOADING ARM UNIT	1	
144(2)	VXL2307	MAIN LEVER UNIT	1	
145(2)	VXP1409	CENTRE CLUTCH	1	
B102(2)	XTV26+8F	SCREW	1	
B103(2)	XTV26+6F	SCREW	3	
B104(2)	VHD0753	SCREW	4	
B105(2)	VHD0754	SCREW	1	
B106(2)	XSB26+4FZ	SCREW	1	
W101(2)	VMX2208	WASHER	4	

2 CHASSIS PARTS SECTION (2)



③ CASING PARTS SECTION



Note:1.* Be sure to make your orders of replacement parts according to this list.

2.Important SAFETY NOTICE

Components identified with the mark (<I>) have the special characteristics for safety. When replacing any of these components,use only the same type.

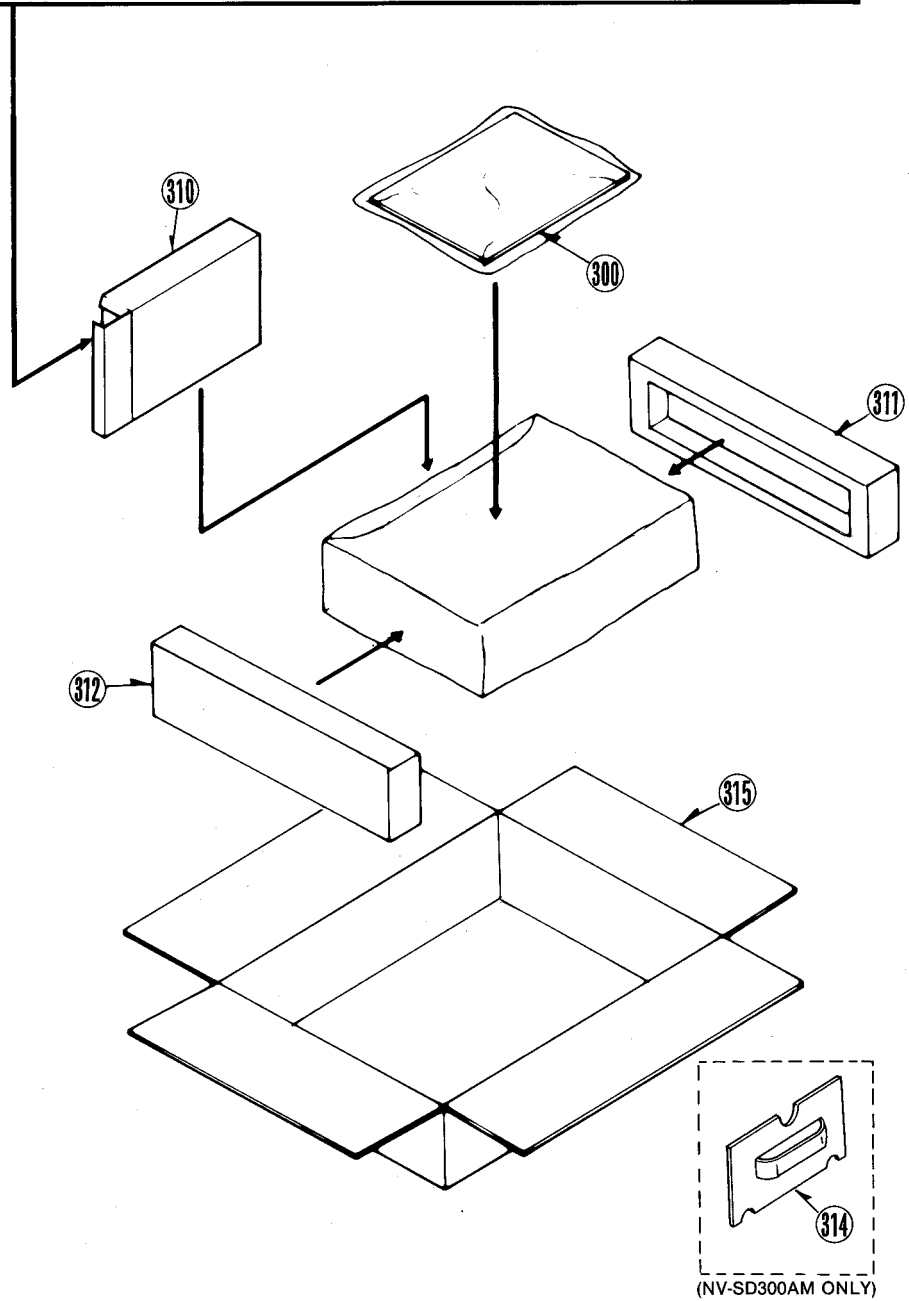
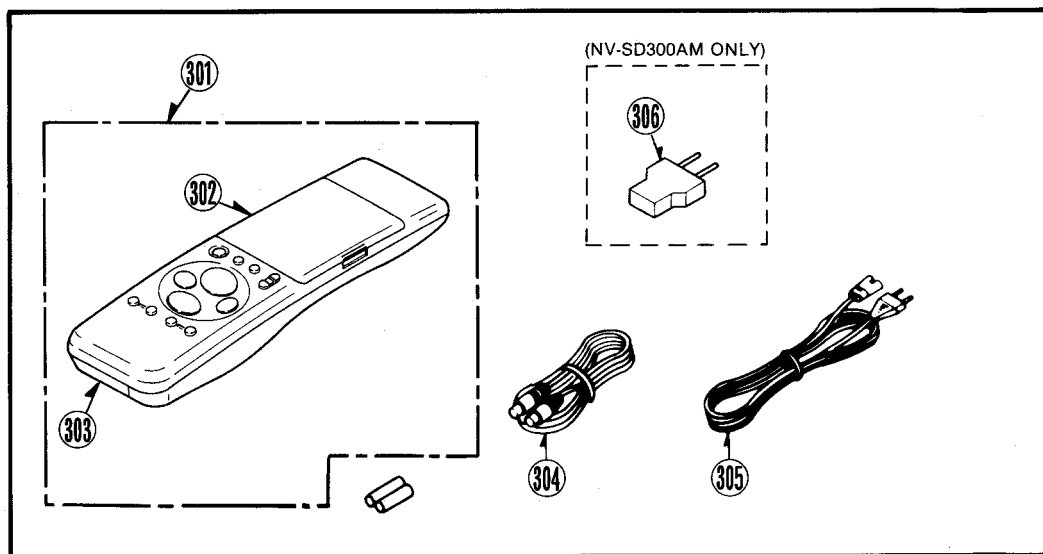
Note:1.* Be sure to make your orders of replacement parts according to this list.

2.Important SAFETY NOTICE

Components identified with the mark (<I>) have the special characteristics for safety. When replacing any of these components, use only the same type.

[illegible][illegible]

④ PACKING PARTS SECTION



5-2. ELECTRICAL REPLACEMENT PARTS LIST

Note:1.Be sure to make your orders of replacement parts according to this list.
 2.IMPORTANT SAFETY NOTICE : Components identified with the mark (!) have the special characteristics for safety. When replacing any of these components, use only the same type.
 3.Unless otherwise specified, All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICRO-FARADS(uf), P=uf.
 4.The P.C.Board units marked width "■" show below the main assembled parts.
 5.The marking(RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEPO6977A	MAIN C.B.A. (Page:5-7)	1	(RTL)NV-SD300AM INCLUDING THE TV DEMOMULATOR PACK C.B.A. (VEPO7764A), LUMINANCE & CHROMINANCE PACK C.B.A. (VEPO3B22A), SECAM PACK C.B.A. (VEPO3A02A), OSD PACK C.B.A. (VEPO6979A).
	VEPO7764A	TV DEMOMULATOR PACK C.B.A.	1	(RTL)NV-SD300AM INCLUDED IN MAIN C.B.A. (VEPO6977A).
	VEPO3B22A	LUMINANCE & CHROMINANCE PACK C.B.A.	1	(RTL)NV-SD300AM INCLUDED IN MAIN C.B.A. (VEPO6977A). INCLUDING THE SECAM PACK C.B.A. (VEPO3A02A).
	VEPO3A02A	SECAM PACK C.B.A.	1	(RTL)NV-SD300AM INCLUDED IN LUMINANCE & CHROMINANCE PACK C.B.A. (VEPO3B022A).
	VEPO6979A	OSD PACK C.B.A.	1	(RTL)NV-SD300AM INCLUDED IN MAIN C.B.A. (VEPO6977A).
	VEPO6977B	MAIN C.B.A. (Page:5-12)	1	(RTL)NV-SD400EU INCLUDING THE TV DEMOMULATOR PACK C.B.A. (VEPO7764A), LUMINANCE & CHROMINANCE PACK C.B.A. (VEPO3B22A), SECAM PACK C.B.A. (VEPO3A02A), OSD PACK C.B.A. (VEPO6979A).
	VEPO7764A	TV DEMOMULATOR PACK C.B.A.	1	(RTL)NV-SD400EU INCLUDED IN MAIN C.B.A. (VEPO6977B).
	VEPO3B22A	LUMINANCE & CHROMINANCE PACK C.B.A.	1	(RTL)NV-SD400EU INCLUDED IN MAIN C.B.A. (VEPO6977B). INCLUDING THE SECAM PACK C.B.A. (VEPO3A02A).
	VEPO3A02A	SECAM PACK C.B.A.	1	(RTL)NV-SD400EU INCLUDED IN LUMINANCE & CHROMINANCE PACK C.B.A. (VEPO3B022A).
	VEPO6979A	OSD PACK C.B.A.	1	(RTL)NV-SD400EU INCLUDED IN MAIN C.B.A. (VEPO6977B).

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEPO4469A	MOTOR DRIVE C.B.A. (Page:5-17)	1	(RTL)
	VEPO5180J	HEAD AMP PACK C.B.A. (Page:5-18)	1	(RTL)
	VEPO7772A	TIMER C.B.A. (Page:5-19)	1	(RTL)
	VEPO0UB8A	MAIN INTERFACE C.B.A. (Page:5-19)	1	(RTL)
	VEPO0U71A	S-TAB C.B.A. (Page:5-19)	1	(RTL)
	-----	CYLINDER STATOR C.B.A. (Page:3-19)	1	(RTL) C.B.A. IS INCLUDED IN CYLINDER STATOR UNIT (VEK7236-A).
	-----	MOTOR C.B.A. (Page:5-20)	1	C.B.A. IS INCLUDED IN LOADING MOTOR (1) UNIT (VEM0427).
	-----	RT CONNECTION C.B.A. (Page:5-20)	1	C.B.A. IS INCLUDED IN CYLINDER UNIT
	ENG47206N	TUNER	1	<1>
	■ VEPO6977A	MAIN C.B.A.		(RTL)NV-SD300AM
C301	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C302	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C303	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C304	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C305	ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C306	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C307	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C308	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C309	ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C310-12	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C313	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C314	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C315	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C316	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C317	ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C318,19	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C321	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C322	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C323	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C324	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C325	ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C326	ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C327	ECUM1E823KBN	C.CAPACITOR CH 25V 0.082U	1	
C328	ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C329	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C330	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C331,32	ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C333	ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C334	ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C335	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C336	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C340	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C341	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C342	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C343	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C344	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C345	ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C347	ECUM1E154KBN	C.CAPACITOR CH 25V 0.15U	1	
C348	ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C349	ECEA1HKA010	E.CAPACITOR 50V 1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C350	ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C351	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C352	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C353	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C354	ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C355	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C356	ECEAOJKA221	E.CAPACITOR 6.3V 220U	1	
C357	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C358,59	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C360	ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C361	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C362	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C363	ECEAOJKA221	E.CAPACITOR 6.3V 220U	1	
C364	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C365	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C366	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C367-72	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	6	
C373	ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C374	ECEA1EKV4R7	E.CAPACITOR 25V 4.7U	1	
C375	ECEAOJKA220	E.CAPACITOR 6.3V 220U	1	
C376	ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C378	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C379	ECEAOJKA221	E.CAPACITOR 6.3V 220U	1	
C380	ECEAOJKA470	E.CAPACITOR 6.3V 47U	1	
C381	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C383	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C386	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C387	ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C391	ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C392	ECUM1H681KBN	C.CAPACITOR CH 50V 680P	1	
C394	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
O0701-03	ECUX1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
O0704	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
O0705	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
O0706	ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
O0707,08	ECUX1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
O0709	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
O0710	ECUM1H470JPV	C.CAPACITOR CH 50V 47P	1	
O0711	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
O0712	ECUX1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
O0714	ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
O0715	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
O0716	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
O0717	ECUM1H300JPV	C.CAPACITOR CH 50V 30P	1	
O0718	ECEA1HKA47	E.CAPACITOR 50V 0.47U	1	
O0719	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
O0720	ECUX1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
O0722	ECUX1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
O0723	ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
O0724	ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
O0725	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
O0726	ECUX1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
O0727	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
O0728	ECUX1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
O0729	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C881	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C882	ECEA1CK330	E.CAPACITOR 16V 33U	1	
C883	ECEA1AK470	E.CAPACITOR 10V 47U	1	
C884	ECQV1H563JM	P.CAPACITOR 50V 0.47U	1	
C885	ECEA1CK330	E.CAPACITOR 16V 33U	1	
C886	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C887	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C888	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C1001	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1002	ECA1CM470	E.CAPACITOR 16V 47U	1	
C1003	ECA1CM101	E.CAPACITOR 16V 100U	1	
C1004	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1005	ECEAOJKA101	E.CAPACITOR 6.3V 100U	1	
C1006	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1007	ECEAOJKA101	E.CAPACITOR 6.3V 100U	1	
C1008	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1009,10	ECEAOJKA101	E.CAPACITOR 6.3V 100U	2	
C1101,02	ECQW5331MBH	C.CAPACITOR	2 <1>	
C1103	ECQW5102MEH	C.CAPACITOR	1 <1>	
C1104	ECQ2A333MNB	P.CAPACITOR 250V 0.033U	1 <1>	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1106	ECBC2G680	E.CAPACITOR 400V 68U	1	
C1107	ECQD2H103PU	C.CAPACITOR 500V 0.01U	1	
C1108	ECCF3A121KGE	C.CAPACITOR 1KV 120P	1	
C1109	ECEA1VGE470	E.CAPACITOR 35V 47U	1	
C1110	ECEAOJGE331	E.CAPACITOR 6.3V 330U	1	
C1111	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1131	EEUFA1E331B	.CAPACITOR V	1	
C1132	ECEA1EU221	E.CAPACITOR 25V 220U	1	
C1133	ECQD2H101KB5	C.CAPACITOR 500V 100P	1	
C1134	EEUFA1A391B	.CAPACITOR V	1	
C1135	ECEA1AU331	E.CAPACITOR 10V 330U	1	
C1136	ECQD2H101KB5	C.CAPACITOR 500V 100P	1	
C1137	ECEA1JFE470	E.CAPACITOR 63V 47U	1	
C1138	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1139	ECQD2H101KB5	C.CAPACITOR 500V 100P	1	
C1140	ECA1VFQ560	E.CAPACITOR 35V 56U	1	
C1141	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1143	ECQAJFQ221	E.CAPACITOR 6.3V 220U	1	
C1144,45	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2013	ECQV1H334JM	P.CAPACITOR 50V 0.33U	1	
C2022	ECEA1EKS330	E.CAPACITOR 25V 33U	1	
C2023	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2024	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2025,26	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C2029,30	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
C2031	ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C2032	ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C2033	ECQAJM221	E.CAPACITOR 6.3V 220U	1	
C2034	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2035	ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C2037	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2038	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2039	ECEAOJKA220	E.CAPACITOR 6.3V 22U	1	
C2040	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2047	ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2049-51	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	3	
C2052	ECQAJM221	E.CAPACITOR 6.3V 220U	1	
C2053-55	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	3	
C3005	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3006	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3007	ECEAOJKA221	E.CAPACITOR 6.3V 220U	1	
C3008	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3009	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3010	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3011	ECUM1E154KBN	C.CAPACITOR CH 25V 0.15U	1	
C3012	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3015	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3018	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3020	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3021	ECQAJM471	E.CAPACITOR 6.3V 470U	1	
C3022	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3023	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3024	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3025	ECEAOJKA470	E.CAPACITOR 6.3V 47U	1	
C3026	ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3027	ECEAOJKA470	E.CAPACITOR 6.3V 47U	1	
C3028	ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3029	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3031	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3032	ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3033	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C4008	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C4010	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4011	ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C4013	ERJ6QM20R00	M.RESISTOR CH 1/10W 0	1	
C4015	ECUM1H182JCN	C.CAPACITOR CH 50V 1800P	1	
C4016	ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4017	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4018	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4019	ECEA1HU010	E.CAPACITOR 50V 1U	1	
C4020	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4021	ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C4022	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4023	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C4024	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4025	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1		D1004	MA4051-L	DIODE	1	
C4026	ECEA1CKA470	E.CAPACITOR 16V 47U	1		D1005,06	1SS254	DIODE	2	
C4027	ECEA1CKA100	E.CAPACITOR 16V 10U	1		D1102	S1WBA60BS	DIODE	1	<1>
C4028	ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1		D1103	AP01C	DIODE	1	
C4029	ECUM1H822KBN	C.CAPACITOR CH 50V 8200P	1		D1104	MA178	DIODE	1	
C4030	ECUM1H682KBN	C.CAPACITOR CH 50V 6800P	1		D1105	MA700	DIODE	1	
C4031	ECUM1H153KBN	C.CAPACITOR CH 50V 0.015U	1		D1106	MA4200H	DIODE	1	
C4032	ECEA1CKA100	E.CAPACITOR 16V 10U	1		D1107	1SS254	DIODE	1	
C4035	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1		D1121	15DF2FC	DIODE	1	
C4041	ERJ6GM20R00	M.RESISTOR CH 1/10W 0	1		D1122	11EQS04	DIODE	1	
C6001	ECUM1H1042FN	C.CAPACITOR CH 50V 0.1U	1		D1123	ERA22-02	DIODE	1	
C6003	ECUM1C2242FN	C.CAPACITOR CH 16V 0.22U	1		D1124	MA185	DIODE	1	
C6006	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1		D1125	11EQS04	DIODE	1	
C6007	ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1		D1126	MA4047M	DIODE	1	
C6008	ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1		D2001	1SS355	DIODE	1	
C6010	ECUM1H1042FN	C.CAPACITOR CH 50V 0.1U	1		D2003,04	1SS254	DIODE	2	
C6011	ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1		D2005	1SS355	DIODE	1	
C6013	ECUM1C1052FN	C.CAPACITOR CH 16V 1U	1		D3007	1SS355	DIODE	1	
C6015,16	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	2		D3010	1SS355	DIODE	1	
C6030	ECUM1H181KBN	C.CAPACITOR CH 50V 180P	1		D4004	MA700A	DIODE	1	
C7601	ECUM1C1052FN	C.CAPACITOR CH 16V 1U	1		D4005	1SS254	DIODE	1	
C7603	ECUM1C1052FN	C.CAPACITOR CH 16V 1U	1		D4006,07	1SS355	DIODE	2	
C7604	ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1		D4008,09	1SS254	DIODE	2	
C7605	ECEA1CKA101	E.CAPACITOR 16V 100U	1		D4010	MA700A	DIODE	1	
C7606	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1		D4011	ERJ6GM20R00	M.RESISTOR CH 1/10W 0	1	
C7610	ECUM1H1042FN	C.CAPACITOR CH 50V 0.1U	1		D6001	LN59L.VT	LED	1	
C7611	ECEA1CKA100	E.CAPACITOR 16V 10U	1		D6002	1SS254	DIODE	1	
C7612	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1		D6003	1SS355	DIODE	1	
C7613	ECEA1CKA100	E.CAPACITOR 16V 10U	1		D6007	MA4075-L	DIODE	1	
C7614	ECUM1H1032FM	C.CAPACITOR CH 50V 0.01U	1		D7601	1SS254	DIODE	1	
C7615	ECEA1CKA100	E.CAPACITOR 16V 10U	1		D7604	1SS355	DIODE	1	
C7616	ECUM1H1032FM	C.CAPACITOR CH 50V 0.01U	1		D7703	SVC201SPA	DIODE	1	
C7617	ECEA1CKA101	E.CAPACITOR 16V 100U	1		D7704	1SS254	DIODE	1	
C7618	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1						
C7620	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1		F1101	XBA2C16TBO	FUSE	1	<1>
C7621,22	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	2						
C7623	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1		FL881	VLFO143	FILTER	1	
C7632	ECEA1CKA100	E.CAPACITOR 16V 10U	1						
C7633	ECUM1H1042FN	C.CAPACITOR CH 50V 0.1U	1		IC301	TL8849P	IC	1	
C7635	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1		IC302	AN3553FBP	IC	1	
C7661	ECUM1H1042FM	C.CAPACITOR CH 50V 0.1U	1		IC0701	LA7576	IC	1	
C7662	ECUM1H6832FM	C.CAPACITOR CH 50V 0.068U	1		IC0702	LA7975	IC	1	
C7663	ECUM1H8232FM	C.CAPACITOR CH 50V 0.082U	1		IC881	BA7025L	IC	1	
C7664	ECUM1H273KBM	C.CAPACITOR CH 50V 0.027U	1		IC1001	HA17431PA	IC	1	
C7665,66	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	2		IC1101	STRM6559LF	IC	1	<1>
C7668	ECUM1H1032FM	C.CAPACITOR CH 50V 0.01U	1		IC2001	XRA6887-V3	IC	1	
C7669	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1		IC2004	LM358PS	IC	1	
C7671	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1		IC3001	MM1111KFF	IC	1	
C7677	ECEA1HKA100	E.CAPACITOR 50V 10U	1		IC4002	LA7285	IC	1	
C7678	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1		IC6001	MM67434VRSJ	IC	1	
C7701	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1		IC6002,03	ON1387	IC	2	
C7702	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1		IC7651	AN5043	IC	1	
C7703	ECUM1H300JCN	C.CAPACITOR CH 50V 30P	1		IC7653	UPD4066BG	IC	1	
C7704	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1		IC7701	UPD6464CS501	IC	1	
C7705	ECEA1HKA22	E.CAPACITOR 50V 0.22U	1						
C7706,07	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	2						
C7708	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1						
C7709	ECEA1HKA010	E.CAPACITOR 50V 1U	1						
C7710	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1						
C7711	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1						
C7714	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1						
C7716	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1						
C7717	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1						
C7719	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1						
C7726	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1						
D301	1SS283	DIODE	1		L301	VLQ0599J470	COIL	H	1
D304	1SS254	DIODE	1		L302	VLQ0599J100	COIL	H	1
D305	MA723VT	DIODE	1		L303	VLQ0599J270	COIL	27UH	1
D307-10	1SS254	DIODE	4		L304	VLQ0599J100	COIL	H	1
D312	1SS254	DIODE	1		L305	VLQ0599J680	COIL		1
D314-18	1SS254	DIODE	5		L306,07	VLQ0599J390	COIL	H	2
D1001	MA4120-M	DIODE	1		L308	VLQ0599J150	COIL	15UH	1
D1002	1SS254	DIODE	1		L309	VLQ0599J390	COIL	H	1
					L310	VLQ0599J121	COIL	120UH	1
					L311	VLQ0599J101	COIL	100UH	1
					L312	VLQ0599J8R2	COIL	H	1
					L313	VLQ0599J680	COIL		1
					L314	VLQ0599J220	COIL		1

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R350	ERJ6GMYK225	M.RESISTOR CH 1/10W 2.2M	1		R2009	ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R351	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1		R2012	ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R352	ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1		R2013-15	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	3	
R353	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1		R2017,18	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	2	
R354,55	ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	2		R2019	ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R356	ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1		R2021	ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R358	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1		R2023	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R359	ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1		R2025	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R360	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1		R2027,28	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R361	ERJ6GMYJ163	M.RESISTOR CH 1/10W 16K	1		R2029	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R362	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1		R2031	ERJ6GEYJ244	M.RESISTOR CH 1/10W 240K	1	
R363	ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1		R2035	ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R364	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1		R2037	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R367	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1		R2038	ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R369	ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1		R2039	ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R371	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1		R2040	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R373	ERJ6GMYJ334	M.RESISTOR CH 1/10W 330K	1		R2041	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R0702	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1		R2042	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R0703	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1		R2043	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R0704	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R2044	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R0705	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1		R2045	ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R0706,07	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2		R2046	ERJ6GMYG273	M.RESISTOR CH 1/10W 27K	1	
R0708	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1		R2047	ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R0709	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1		R2048	ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	1	
R0710	ERJ6GEYJ394	M.RESISTOR CH 1/10W 390K	1		R2050	ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R0713	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1		R2051	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R0714	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1		R2052	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R0715	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1		R2053,54	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R0716	VR80040E151	M.RESISTOR CH 1/10W 150	1		R2059	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R0717	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1		R2060,61	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	2	
R0718	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R2062	ERDS2FJ7R5	C.RESISTOR 1/4W 7.5	1	
R0719	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1		R2063,64	ERDS2FJ6R8	C.RESISTOR 1/4W 6.8	2	
R0720	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R3004	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R0722	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R3005	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R0723	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1		R3006	ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R0724	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1		R3012	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R0725	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1		R3015	ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R0726	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1		R3016	ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R0727	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R3017	ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R0730	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1		R3022	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R0731	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R3023,24	ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	2	
R0732	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1		R3025	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R0782	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R3026	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R0783	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1		R3027	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R881	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1		R3028	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R882	ERJ6GMYJ390	M.RESISTOR CH 1/10W 39	1		R3030	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R883	ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1		R3034,35	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R884	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1		R3036	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R885	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1		R3037	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R886	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1		R3038,39	ERDS2TJ102	C.RESISTOR 1/4W 1K	2	
R1001	ERDS1TJ472	C.RESISTOR 1/2W 4.7K	1		R3042	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R1002	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1		R4002	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R1003	ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1		R4013	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R1004	ERJ6GEYJ303	M.RESISTOR CH 1/16W 30K	1		R4014	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R1005	ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1		R4015	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1006	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1		R4021	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R1102	ERG1SJ683	M.RESISTOR 1W 68K	1		R4025	ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R1103,04	ERDS2TJ224	C.RESISTOR 1/4W 220K	2		R4027	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R1105	ERJ8GEYK395	M.RESISTOR CH 1/8W 3.9M	1		R4028	ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R1106	ERJ8GEYK475	M.RESISTOR CH 1/8W 4.7M	1		R4029	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R1107	ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1		R4030	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1108	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1		R4031	ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R1109	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1		R4032	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R1110	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1		R4033	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R1111,12	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	2		R4034	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R1113	ERX1SJR82	M.RESISTOR 1W 0.82	1		R4035	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R1114	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1		R4036	ERJ6GMYJ513	M.RESISTOR CH 1/10W 51K	1	
R1117	ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1		R4037	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R1121	ERJ6GMYJ220	M.RESISTOR CH 1/10W 22	1		R4038	ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R1122	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1		R4039	ERJ6GMYJ513	M.RESISTOR CH 1/10W 51K	1	
R2001	ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1		R4040	ERJ6GMYJ470	M.RESISTOR CH 1/10W 47	1	
R2002	ERJ6GMYG913	M.RESISTOR CH 1/10W 91K	1		R4042	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R2003	ERDS2FJ7R5	C.RESISTOR 1/4W 7.5	1		R4043	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R2004	ERDS2TJ102	C.RESISTOR 1/4W 1K	1		R4044	ERJ6GMYJ474	M.RESISTOR CH 1/10W 470K	1	
R2005,06	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2		R4045	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4046	ERJ6GMYJ752	M.RESISTOR CH 1/10W 7.5K	1	
R4047	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4048	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4049	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R4051	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R4054	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R4056	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6001	ERJ6GMYJ201	M.RESISTOR CH 1/10W 200	1	
R6002	ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R6003	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6004	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6005-07	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	3	
R6008	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6009-11	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R6013	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R6014, 15	ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	2	
R6016	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6017	ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6018	ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6020	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R6022	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6023	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6024-27	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	4	
R6028	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R6029	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6030	ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R6031	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6032, 33	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	2	
R6034, 35	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6037	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R6039, 40	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R7601	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R7603	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7604	ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R7605, 06	ERJ6GMYJ184	M.RESISTOR CH 1/10W 180K	2	
R7607, 08	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R7617	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7657	ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R7671, 72	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R7673	ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R7674	ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R7675	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7676	ERGLS152	M.RESISTOR 1W 1.5K	1	
R7677	ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7678	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R7679	ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R7680	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7681, 82	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R7683	ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R7684	ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R7690	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7702	ERJ6GEYJ512	M.RESISTOR CH 1/10W 5.1K	1	
R7703	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7704	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7706	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7713, 14	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R7724	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
SW3001	VSS0398	SWITCH	1	
SW7601	VSS0106	SWITCH	1	
T0703	EQV5ECO71A	TRANSFORMER	1	
T0704	EQV5ECO73A	TRANSFORMER	1	
T0711	EQS5ECO32A	TRANSFORMER	1	
T881	ELM7Q207A	TRANSFORMER	1	
T1101	ETE28K94AY	TRANSFORMER	1	<1>
VR301	EVMEASAO0B14	V.RESISTOR	1	
VR302	EVMEASAO0B53	V.RESISTOR	1	
VR303, 04	EVMEASAO0B24	V.RESISTOR	2	
VR305	EVMEASAO0B54	V.RESISTOR	1	
VR0701	EVNCBAA00B24	V.RESISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
VR2001	EVNDXAA00B54	V.RESISTOR 50K	1	
VR3012, 13	EVNDXAA00B52	V.RESISTOR 500	2	
X301	VSX0162	CRYSTAL OSCILLATOR	1	
X302	VSX0160	CRYSTAL OSCILLATOR	1	
X0702	EFCS6ROMS5	CRYSTAL OSCILLATOR	1	
X0703	EFCS3F02W3B	CRYSTAL OSCILLATOR	1	
X0704	EFCH38MGP33	CRYSTAL OSCILLATOR	1	
X0721	EP0A512KT4BE	CRYSTAL OSCILLATOR	1	
X6001	VSX0609	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VMD2029	REEL GUIDE	1	
	VSC4141	POWER SHIELD COVER	1	
	VWJ0867	FLAT CARD CABLE	1	{P3002-P501}
	VWJ32C9160BB	FLAT CARD CABLE	1	{P6001-P7501}
	VMP4471	DEM0DU. ANGLE	1	FOR TV DEM0DULATOR
	ENG47206N	TUNER	1	<1>FOR TV DEM0DU.
	VMD1926	SENSOR LED HOLDER	1	FOR D6001
	VMD1927	PHOTO TR. HOLDER	1	FOR Q6002
	EYF52BC	FUSE HOLDER	2	<1>
	VEPO6977B	MAIN C.B.A.		(RTL)NV-SD400EU
C301	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C302	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C303	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C304	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C305	ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C306	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C307	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C308	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C309	ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C310-12	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C313	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C314	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C315	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C316	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C317	ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C318, 19	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C321	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C322	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C323	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C324	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C325	ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C326	ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C327	ECUM1E823KBN	C.CAPACITOR CH 25V 0.082U	1	
C328	ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C329	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C330	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C331, 32	ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C333	ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C334	ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C335	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C336	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C340	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C341	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C342	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C343	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C344	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C345	ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C347	ECUM1E154KBN	C.CAPACITOR CH 25V 0.15U	1	
C348	ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C349	ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C350	ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C351	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C352	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C353	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C354	ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C355	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C356	ECEAOJKA221	E. CAPACITOR 6.3V 220U	1		C1111	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1	
C357	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	1		C1131	EEUFA1E331B	.CAPACITOR V	1	
C358,59	ECUM1E104KBN	C. CAPACITOR CH 25V 0.1U	2		C1132	ECEA1EU221	E. CAPACITOR 25V 220U	1	
C360	ECUM1H223KBN	C. CAPACITOR CH 50V 0.022U	1		C1133	ECKD2H101KB5	C. CAPACITOR 500V 100P	1	
C361	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C1134	EEUFA1A391B	.CAPACITOR V	1	
C362	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	1		C1135	ECEA1AU331	E. CAPACITOR 10V 330U	1	
C363	ECEAOJKA221	E. CAPACITOR 6.3V 220U	1		C1136	ECKD2H101KB5	C. CAPACITOR 500V 100P	1	
C364	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C1137	ECEA1JFE470	E. CAPACITOR 63V 47U	1	
C365	ECUM1H220JCN	C. CAPACITOR CH 50V 22P	1		C1138	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C366	ECUM1H270JCN	C. CAPACITOR CH 50V 27P	1		C1139	ECKD2H101KB5	C. CAPACITOR 500V 100P	1	
C367-72	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	6		C1140	ECA1VPQ560	E. CAPACITOR 35V 56U	1	
C373	ECEA1HKA3R3	E. CAPACITOR 50V 3.3U	1		C1141	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C374	ECEA1EKW4R7	E. CAPACITOR 25V 4.7U	1		C1143	ECAOJFQ221	E. CAPACITOR 6.3V 220U	1	
C375	ECEAOJKA220	E. CAPACITOR 6.3V 220U	1		C1144, 45	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	2	
C376	ECUM1H181JCN	C. CAPACITOR CH 50V 180P	1		C2013	EQQV1H334JM	P. CAPACITOR 50V 0.33U	1	
C378	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	1		C2022	ECEA1EKS330	E. CAPACITOR 25V 33U	1	
C379	ECEAOJKA221	E. CAPACITOR 6.3V 220U	1		C2023	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	1	
C380	ECEAOJKA470	E. CAPACITOR 6.3V 47U	1		C2024	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C381	ECUM1H270JCN	C. CAPACITOR CH 50V 27P	1		C2025, 26	ECUM1C1052FN	C. CAPACITOR CH 16V 1U	2	
C383	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	1		C2029, 30	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	2	
C386	ECUM1H561JCN	C. CAPACITOR CH 50V 560P	1		C2031	ECUM1H392KBN	C. CAPACITOR CH 50V 3900P	1	
C387	ECUM1H151JCN	C. CAPACITOR CH 50V 150P	1		C2032	ECUM1H223KBN	C. CAPACITOR CH 50V 0.022U	1	
C391	ECEA1HKN010	E. CAPACITOR 50V 1U	1		C2033	ECAOJM221	E. CAPACITOR 6.3V 220U	1	
C392	ECUM1H681KBN	C. CAPACITOR CH 50V 680P	1		C2034	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C394	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	1		C2035	ECEA1HKA3R3	E. CAPACITOR 50V 3.3U	1	
C0701-03	ECUX1H1032FV	C. CAPACITOR CH 50V 0.01U	3		C2037	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C0704	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1		C2038	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	1	
C0705	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1		C2039	ECEAOJKA220	E. CAPACITOR 6.3V 22U	1	
C0706	ECEA1HKAOR1	E. CAPACITOR 50V 0.1U	1		C2040	ECUM1H222KBN	C. CAPACITOR CH 50V 2200P	1	
C0707, 08	ECUX1H1032FV	C. CAPACITOR CH 50V 0.01U	2		C2047	EQQV1H683JM	P. CAPACITOR 50V 0.068U	1	
C0709	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1		C2049-51	ECUM1C1052FN	C. CAPACITOR CH 16V 1U	3	
C0710	ECUM1H470JFV	C. CAPACITOR CH 50V 47P	1		C2052	ECAOJM221	E. CAPACITOR 6.3V 220U	1	
C0711	ECEA1CKA100	E. CAPACITOR 16V 10U	1		C2053-55	ECUM1C1052FN	C. CAPACITOR CH 16V 1U	3	
C0712	ECUX1H1032FV	C. CAPACITOR CH 50V 0.01U	1		C3005	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	1	
C0714	ECQB1H473JF	P. CAPACITOR 50V 0.047U	1		C3006	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C0715	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C3007	ECEAOJKA221	E. CAPACITOR 6.3V 220U	1	
C0716	ECEA1CKA100	E. CAPACITOR 16V 10U	1		C3008	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1	
C0717	ECUM1H300JFV	C. CAPACITOR CH 50V 30P	1		C3009	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C0718	ECEA1HKAR47	E. CAPACITOR 50V 0.47U	1		C3010	ECUM1C1052FN	C. CAPACITOR CH 16V 1U	1	
C0719	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1		C3011	ECUM1E154KBN	C. CAPACITOR CH 25V 0.15U	1	
C0720	ECUX1H1032FV	C. CAPACITOR CH 50V 0.01U	1		C3012	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C0722	ECUX1H1032FV	C. CAPACITOR CH 50V 0.01U	1		C3015	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1	
C0723	ECEA1HKAOR1	E. CAPACITOR 50V 0.1U	1		C3018	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C0724	ECQB1H473JF	P. CAPACITOR 50V 0.047U	1		C3020	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C0725	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C3021	ECAOJM471	E. CAPACITOR 6.3V 470U	1	
C0726	ECUX1H1032FV	C. CAPACITOR CH 50V 0.01U	1		C3022	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C0727	ECEA1CKA100	E. CAPACITOR 16V 10U	1		C3023	ECEA1CKA470	E. CAPACITOR 16V 47U	1	
C0728	ECUX1H1032FV	C. CAPACITOR CH 50V 0.01U	1		C3024	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	1	
C0729	ECEA1CKA100	E. CAPACITOR 16V 10U	1		C3025	ECEAOJKA470	E. CAPACITOR 6.3V 47U	1	
C881	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C3026	ECEA1CKN100	E. CAPACITOR 16V 10U	1	
C882	ECEA1CK330	E. CAPACITOR 16V 33U	1		C3027	ECEAOJKA470	E. CAPACITOR 6.3V 47U	1	
C883	ECEA1AK470	E. CAPACITOR 10V 47U	1		C3028	ECUM1H151JCN	C. CAPACITOR CH 50V 150P	1	
C884	EQQV1H563JM	P. CAPACITOR 50V 0.47U	1		C3029	ECUM1H220JCN	C. CAPACITOR CH 50V 22P	1	
C885	ECEA1CK330	E. CAPACITOR 16V 33U	1		C3031	ECUM1H220JCN	C. CAPACITOR CH 50V 22P	1	
C886	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C3032	ECUM1H681JCN	C. CAPACITOR CH 50V 680P	1	
C887	ECUM1C1052FN	C. CAPACITOR CH 16V 1U	1		C3033	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	1	
C888	ECUM1H470JCN	C. CAPACITOR CH 50V 47P	1		C4008	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1	
C1001	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C4010	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	1	
C1002	ECA1CM470	E. CAPACITOR 16V 47U	1		C4011	ECUM1H821JCN	C. CAPACITOR CH 50V 820P	1	
C1003	ECA1CM101	E. CAPACITOR 16V 100U	1		C4013	ERJ6GM20R00	M.RESISTOR CH 1/10W 0	1	
C1004	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C4015	ECUM1H182JCN	C. CAPACITOR CH 50V 1800P	1	
C1005	ECEAOJKA101	E. CAPACITOR 6.3V 100U	1		C4016	ECEA1CU330	E. CAPACITOR 16V 33U	1	
C1006	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C4017	ECUM1H102JCN	C. CAPACITOR CH 50V 1000P	1	
C1007	ECEAOJKA101	E. CAPACITOR 6.3V 100U	1		C4018	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C1008	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C4019	ECEA1HU010	E. CAPACITOR 50V 1U	1	
C1009, 10	ECEAOJKA101	E. CAPACITOR 6.3V 100U	2		C4020	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	1	
C1101, 02	ECKMWS471MBH	C. CAPACITOR	2 <1>		C4021	ECEA1CKA330	E. CAPACITOR 16V 33U	1	
C1103	ECKMWS102MEH	C. CAPACITOR	1 <1>		C4022	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	1	
C1104	ECQU2A154MNB	P. CAPACITOR 250V 0.15U	1 <1>		C4023	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1	
C1105	ECQU2A683MN	P. CAPACITOR 250V 0.068U	1 <1>		C4024	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	1	
C1106	ECBEC2G6680	E. CAPACITOR 400V 68U	1		C4025	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C1107	ECKD2H103PU	C. CAPACITOR 500V 0.01U	1		C4026	ECEA1CKM470	E. CAPACITOR 16V 47U	1	
C1108	BCCF3A121KGE	C. CAPACITOR 1kV 120P	1		C4027	ECEA1CKA100	E. CAPACITOR 16V 10U	1	
C1109	ECEA1VGE470	E. CAPACITOR 35V 47U	1		C4028	ECEA1EKW4R7	E. CAPACITOR 25V 4.7U	1	
C1110	ECEAOJGE331	E. CAPACITOR 6.3V 330U	1		C4029	ECUM1H822KBN	C. CAPACITOR CH 50V 8200P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R353	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1		R2017,18	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	2	
R354,55	ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	2		R2019	ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R356	ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1		R2021	ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R358	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1		R2023	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R359	ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1		R2025	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R360	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1		R2027,28	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R361	ERJ6GMYJ163	M.RESISTOR CH 1/10W 16K	1		R2029	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R362	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1		R2031	ERJ6GEYJ244	M.RESISTOR CH 1/10W 240K	1	
R363	ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1		R2035	ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R364	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1		R2037	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R367	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1		R2038	ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R369	ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1		R2039	ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R371	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1		R2040	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R373	ERJ6GMYJ334	M.RESISTOR CH 1/10W 330K	1		R2041	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R0702	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1		R2042	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R0703	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1		R2043	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R0704	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R2044	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R0705	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1		R2045	ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R0706,07	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2		R2046	ERJ6GMVG273	M.RESISTOR CH 1/10W 27K	1	
R0708	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1		R2047	ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R0709	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1		R2048	ERJ6GMVG223	M.RESISTOR CH 1/10W 22K	1	
R0710	ERJ6GEYJ394	M.RESISTOR CH 1/10W 390K	1		R2050	ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R0713	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1		R2051	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R0714	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1		R2052	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R0715	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1		R2053,54	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R0716	VR80040E151	M.RESISTOR CH 1/10W 150	1		R2059	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R0717	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1		R2060,61	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	2	
R0718	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R2062	ERDS2FJ7R5	C.RESISTOR 1/4W 7.5	1	
R0719	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1		R2063,64	ERDS2FJ6R8	C.RESISTOR 1/4W 6.8	2	
R0720	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R3004	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R0722	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		R3005	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R0723	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1		R3006	ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R0724	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1		R3012	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R0725	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1		R3015	ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R0726	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1		R3016	ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R0727	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R3017	ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R0730	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1		R3022	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R0731	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R3023,24	ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	2	
R0732	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1		R3025	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R0782	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R3026	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R0783	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1		R3027	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R881	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1		R3028	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R882	ERJ6GMYJ390	M.RESISTOR CH 1/10W 39	1		R3030	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R883	ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1		R3034,35	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R884	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1		R3036	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R885	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1		R3037	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R886	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1		R3038,39	ERDS2TJ102	C.RESISTOR 1/4W 1K	2	
R1001	ERDS1TJ472	C.RESISTOR 1/2W 4.7K	1		R3042	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R1002	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1		R4002	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R1003	ERJ6GMVG272	M.RESISTOR CH 1/10W 2.7K	1		R4013	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R1004	ERJ6GEYJ303	M.RESISTOR CH 1/16W 30K	1		R4014	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R1005	ERJ6GMVG272	M.RESISTOR CH 1/10W 2.7K	1		R4015	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1006	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1		R4021	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R1102	ERGISJ683	M.RESISTOR 1W 68K	1		R4025	ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R1103,04	ERDS2TJ224	C.RESISTOR 1/4W 220K	2		R4027	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R1105	ERJ8GEYK395	M.RESISTOR CH 1/8W 3.9M	1		R4028	ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R1106	ERJ8GEYK475	M.RESISTOR CH 1/8W 4.5M	1		R4029	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R1107	ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1		R4030	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1108	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1		R4031	ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R1109	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1		R4032	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R1110	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1		R4033	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R1111,12	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	2		R4034	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R1113	ERX1SJ82	M.RESISTOR 1W 0.82	1		R4035	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R1114	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1		R4036	ERJ6GMYJ513	M.RESISTOR CH 1/10W 51K	1	
R1117	ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1		R4037	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R1121	ERJ6GMYJ220	M.RESISTOR CH 1/10W 22	1		R4038	ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R1122	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1		R4039	ERJ6GMYJ513	M.RESISTOR CH 1/10W 51K	1	
R2001	ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1		R4040	ERJ6GMYJ470	M.RESISTOR CH 1/10W 47	1	
R2002	ERJ6GMYG913	M.RESISTOR CH 1/10W 91K	1		R4042	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R2003	ERDS2FJ7R5	C.RESISTOR 1/4W 7.5	1		R4043	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R2004	ERDS2TJ102	C.RESISTOR 1/4W 1K	1		R4044	ERJ6GMYJ474	M.RESISTOR CH 1/10W 470K	1	
R2005,06	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2		R4045	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2009	ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1		R4046	ERJ6GMYJ752	M.RESISTOR CH 1/10W 7.5K	1	
R2012	ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1		R4047	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R2013-15	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	3		R4048	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L4702	ELESE471KA	COIL	1	
L4704	ELESE101KA	COIL 100UH	1	
L4707,08	ERJ6GM2OR00	M.RESISTOR CH 1/10W 0	2	
P2003	VJP3502	CONNECTOR (MALE)	1	
P2003	VJS3482	CONNECTOR (FEMALE)	1	
P2005	VJS3537A009G	CONNECTOR (FEMALE) 9P	1	
P2501	VJS3537A015G	CONNECTOR (FEMALE) 15P	1	
P4002	VJS2329	CONNECTOR (FEMALE)	1	
P4003	VJP1230T	CONNECTOR (MALE) 3P	1	
P4003	VJS1230T	CONNECTOR (FEMALE)	1	
P6003	VJP1242T	CONNECTOR (MALE) 2P	1	
PS2501	VJS3042B018W	CONNECTOR (FEMALE) 18P	1	
PS4701	VJS3042B011W	CONNECTOR (FEMALE) 11P	1	
Q4701	2SD602A-R	TRANSISTOR	1	
Q4703	2SB1320A-R	TRANSISTOR	1	
Q4706	2SB709A-R	TRANSISTOR	1	
Q4707	2SD602A-R	TRANSISTOR	1	
QR4702,03	MUN2214	TRANSISTOR-RESISTOR	2	
R2501	ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R2502	ERJ6GMYG681	M.RESISTOR CH 1/10W 680	1	
R2503,04	ERDS2TJ560	C.RESISTOR 1/4W 56	2	
R2505	ERDS1TJ561	C.RESISTOR 1/2W 560	1	
R2506	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2507	ERJ6GMYG432	M.RESISTOR CH 1/10W 4.3K	1	
R2508	ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R2509	ERJ6GMYJ684	M.RESISTOR CH 1/10W 680K	1	
R2510	ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R2511	ERJ6GMYG133	M.RESISTOR CH 1/10W 13K	1	
R2512	ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2513,14	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	2	
R2515	ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2516	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2517	ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2518	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2519	ERDS2TJ560	C.RESISTOR 1/4W 56	1	
R2520	ERX12SJ47	M.RESISTOR CH 1/2W 0.47	1	
R2521,22	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R2523	ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R2524-26	ERDS2TJ330	C.RESISTOR 1/4W 33	3	
R2527	ERDS2FJ1R5	C.RESISTOR 1/4W 1.5	1	
R2528	ERDS2FJ1R2	C.RESISTOR 1/4W 1.2	1	
R2529	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2530	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2531	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2532	ERJ6GM2OR00	M.RESISTOR CH 1/10W 0	1	
R2533	ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2534	ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R4710	ERJ6GMYJ432	M.RESISTOR CH 1/10W 4.3K	1	
R4715	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4722	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4723	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4735	ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R4736	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4737	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4738	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
T4701	EIQ7QF013Q	TRANSFORMER	1	
T4702	EIQ7QF012Q	TRANSFORMER	1	
TR	VJS3481	CONNECTOR (FEMALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
VR2006	EVNDCAA03B15	V.RESISTOR	1	
VR2011	EVNDCAA03B15	V.RESISTOR	1	
VR4001	EVNDCAA03B15	V.RESISTOR	1	
		MISCELLANEOUS		
	VEE9091	WIRE CABLE	1	(P2003-POWER TR.)
	VEE9112	WIRE CABLE	1	(P4003-FE HEAD)
	VWJ0868	FLAT CARD CABLE	1	(P2501-CAPSTAN)
	VWJ0869	FLAT CARD CABLE	1	(P2005-CYL STATOR)
	■ VEPO5180J	HEAD AMP PACK C.B.A.		(RTL)
C501	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C503	ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C504	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C505	ECUM1H620JCN	C.CAPACITOR CH 50V 62P	1	
C507	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1	
C508	ECEAOJK470	E.CAPACITOR 6.3V 47U	1	
C511	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1	
C512	ECUM1C1052FN	C.CAPACITOR CH 16V 1U	1	
C513,14	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	2	
C516,17	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	2	
C518	ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C519	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1	
C520	ECEA1HK010	E.CAPACITOR 50V 1U	1	
C521,22	ECUM1H1042FN	C.CAPACITOR CH 50V 0.1U	2	
C523	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C524	ECUM1H1042FN	C.CAPACITOR CH 50V 0.1U	1	
C525	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1	
C526,27	ECUM1H1042FN	C.CAPACITOR CH 50V 0.1U	2	
C528,29	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	2	
C530,31	ECUM1H1042FN	C.CAPACITOR CH 50V 0.1U	2	
C532	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1	
C535-38	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	4	
IC501	AN3336SB	IC	1	
K506	VLP0145	COIL	1	
K508,09	VLP0145	COIL	2	
K511	VLP0145	COIL	1	
L501	ELESQ101KA	COIL 100UH	1	
L502	ELESQ151KA	COIL 150UH	1	
L503	ELESQ820KA	COIL 82UH	1	
L504	ELESQ270JA	COIL 27UH	1	
L505	ELESQ101KA	COIL 100UH	1	
P501	VJS1684	CONNECTOR (FEMALE)	1	
P502	VJS3069	CONNECTOR (FEMALE)	1	
Q502	MSB709	TRANSISTOR	1	
Q503	MSC2295	TRANSISTOR	1	
QR501	IMH6	TRANSISTOR-RESISTOR	1	
QR502	MUN2213	TRANSISTOR-RESISTOR	1	
R501	ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R502	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R503	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R505	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R506	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R507	ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R508,09	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	2	

