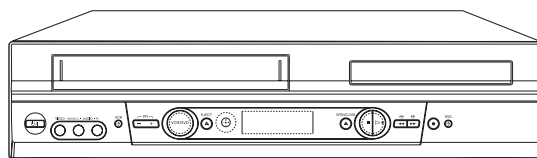


JVC

SERVICE MANUAL

DVD PLAYER / VIDEO CASSETTE RECORDER

HR-XV2Ex, HR-XV2Ey, HR-XV2EL, HR-XV11Ex



SPECIFICATIONS *(The specifications shown pertain specifically to the model HR-XV2E.)*

General

Power requirements	AC 200-240V, 50/60 Hz
Power consumption	Operation mode : 23W Standby mode : 6.7W
Dimensions (approx.)	430 X 97.5 X 293 mm (w/h/d)
Mass (approx.)	4.8 kg
Operating temperature	5 C to 35 C (41 F to 95 F)
Operating humidity	5 % to 90 %
Timer	24 hours display tape
Program capacity	1 month 7 program
RF Modulator	UHF 22-68 (Adjustable)

System

Laser	Semiconductor laser, wavelength 650 nm
Video Head system	Double azimuth 4 heads, helical scanning.
Signal system	PAL
Frequency response	DVD (PCM 96 kHz): 8 Hz to 44 kHz DVD (PCM 48 kHz): 8 Hz to 22 kHz CD: 8 Hz to 20 kHz
Signal-to-noise ratio	More than 100dB (ANALOG OUT connectors only)
Harmonic distortion	Less than 0.008%
Dynamic range	More than 100 dB (DVD) More than 95 dB (CD)

Inputs (VCR)

Audio	-6.0dBm, more than 10 kohms (SCART) -6.0dBm, more than 47 kohms (RCA)
Video	1.0 Vp-p, 75 ohms, unbalanced (SCART/RCA)

Outputs (DVD)

S-VIDEO OUT	(Y) 1.0 Vp-p 75 ohms, negative sync., Mini Din 4-pin x 1 (C) 0.3 Vp-p 75 ohms
COMPONENT VIDEO OUT	(Y) 1.0 V (p-p), 75 Ω , negative sync, RCA jack x 1 (Pb)/(Pr) 0.7 V (p-p), 75 Ω , RCA jack x 2 0.5 V (p-p), 75 Ω , RCA jack x 1
Audio output (digital audio)	5 V (p-p), 75 Ω , Optical connector x 1
Audio output (optical audio)	2.0 Vrms (1 kHz, 0 dB), 330 Ω , RCA jack (L, R) x 2/SCART(To TV)

Outputs (VCR)

Audio	-6.0dBm, less than 1 kohms (SCART)
Video	1.0Vp-p, 75 ohms, unbalanced (SCART)

Design and specifications are subject to change without notice.

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HR-XV2EX,HR-XV2EY,HR-XV2EL,HR-XV11EX D2VP11

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No.82984
2003/06

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Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

●Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the \triangle symbol and shaded (■) parts are critical for safety.
Replace only with specified part numbers.

Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.
Caution for continued protection against fire hazard.
Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:
1) Wires covered with PVC tubing
2) Double insulated wires
3) High voltage leads

5. Use specified insulating materials for hazardous live parts.
Note especially:
1) Insulation Tape 3) Spacers 5) Barrier
2) PVC tubing 4) Insulation sheets for transistors

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

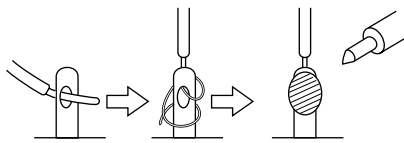


Fig.1

7. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

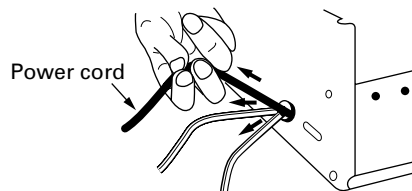


Fig.2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)
In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector

In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

1) **Connector part number** : E03830-001

2) **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.

3) **Replacement procedure**

(1) Remove the old connector by cutting the wires at a point close to the connector.

Important : Do not reuse a connector (discard it).

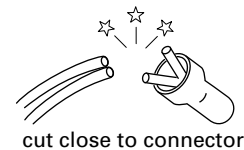


Fig.3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

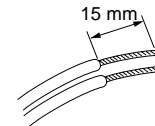


Fig.4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

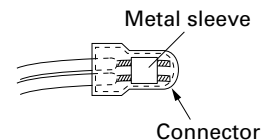


Fig.5

(4) As shown in Fig.6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

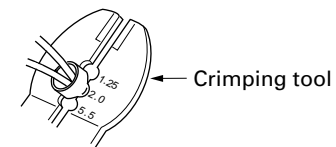


Fig.6

(5) Check the four points noted in Fig.7.

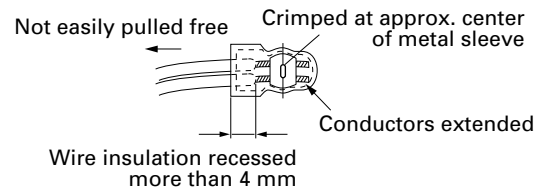


Fig.7

● Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Insulation resistance test

Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

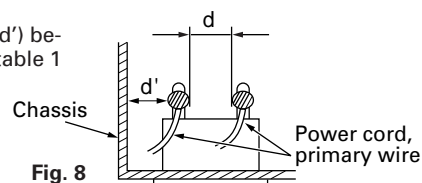


Fig. 8

4. Leakage current test

Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method : (Power ON)

Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

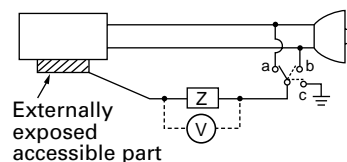


Fig. 9

5. Grounding (Class I model only)

Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).

Measuring Method:

Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

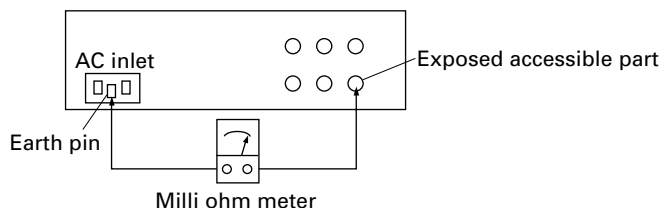


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	$Z \leq 0.1 \text{ ohm}$
Europe & Australia	$Z \leq 0.5 \text{ ohm}$

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	$R \geq 1 \text{ M}\Omega/500 \text{ V DC}$	AC 1 kV 1 minute	$d, d' \geq 3 \text{ mm}$
100 to 240 V			AC 1.5 kV 1 minute	$d, d' \geq 4 \text{ mm}$
110 to 130 V	USA & Canada	$1 \text{ M}\Omega \leq R \leq 12 \text{ M}\Omega/500 \text{ V DC}$	AC 1 kV 1 minute	$d, d' \geq 3.2 \text{ mm}$
110 to 130 V 200 to 240 V	Europe & Australia	$R \geq 10 \text{ M}\Omega/500 \text{ V DC}$	AC 3 kV 1 minute (Class II) AC 1.5 kV 1 minute (Class I)	$d \geq 4 \text{ mm}$ $d' \geq 8 \text{ mm}$ (Power cord) $d' \geq 6 \text{ mm}$ (Primary wire)

Table 1 Specifications for each region

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	$1 \text{ k}\Omega$	$i \leq 1 \text{ mA rms}$	Exposed accessible parts
110 to 130 V	USA & Canada	$0.15 \mu\text{F}$ in parallel with $1.5 \text{ k}\Omega$	$i \leq 0.5 \text{ mA rms}$	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	$2 \text{ k}\Omega$	$i \leq 0.7 \text{ mA peak}$ $i \leq 2 \text{ mA dc}$	Antenna earth terminals
		$50 \text{ k}\Omega$	$i \leq 0.7 \text{ mA peak}$ $i \leq 2 \text{ mA dc}$	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

SPECIFICATIONS

DVD PART

Power supply	AC 110~240V, 50/60 Hz(HR-XV2ER) AC 200~240V, 50/60 Hz(HR-XV2EX/HR-XV2EY/ HR-XV2EL/HR-XV11EX/ HR-XV2EK/HR-XV2EF/HR-XV2EZ)
Power consumption	23W
Mass	5.4kg
External dimensions	430 x 97.5 x 293 (W x H x D)
Signal system	PAL 625/50
Laser	Semiconductor laser, wavelength 650nm
Frequency range (digital audio)	4 Hz to 20 kHz
Signal-to-noise ratio (digital audio)	More than 100 dB (EIAJ)
Audio dynamic range (digital audio)	More than 95 dB (EIAJ)
Harmonic distortion(digital audio)	0.008%
Wow and flutter	Below measurable level (less than +0.001%(W.PEAK)) (EIAJ)
Operations	Temperature : 5°C(41°F) to 35°C(95°F), Operation status : Horizontal

OUTPUTS

Video outputs	1.0V(p-p), 75Ω, negative sync., RCA jack x 1/SCART(TO TV)
S video outputs	(Y)1.0V(p-p), 75Ω, negative sync.,Mini DIN 4-pin x 1 (C)0.3V(p-p), 75Ω
Component video output	(Y) 1.0 V (p-p), 75 Ω, negative sync., RCA jack x 1 (Pb)/(Pr) 0.7 V (p-p), 75 Ω
Audio output(digital audio)	0.5V(p-p), 75Ω, RCA jack X 1/SCART(TO TV)
Audio output(optical audio)	Optical connector x 1
Audio output(analog audio)	2.0Vrms (1kHz, 0dB), 330Ω, RCA jack (L, R) x 1/ SCART(TO TV)

VHS PART

Video Head System	Double azimuth 4 heads, helical scanning
Tape format	Tape width 12.7 mm (0.5 inch)
Timer	24 hours display type

*Designs and specifications are subject to change without notice.

*Weight and dimensions shown are approximate.

SECTION 3

ELECTRICAL

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VCR PART

ELECTRICAL ADJUSTMENT PROCEDURES

1. Servo Adjustment

1) PG Adjustment

- Test Equipment
- a) OSCILLOSCOPE

- b) NTSC MODEL : NTSC SP TEST TAPE
- c) PAL MODEL : PAL SP TEST TAPE

• Adjustment And Specification

MODE	MEASUREMENT POINT	ADJUSTMENT POINT	SPECIFICATION
PLAY	V.Out H/SW	R/C TRK JIG KEY	$6.5 \pm 0.5H$

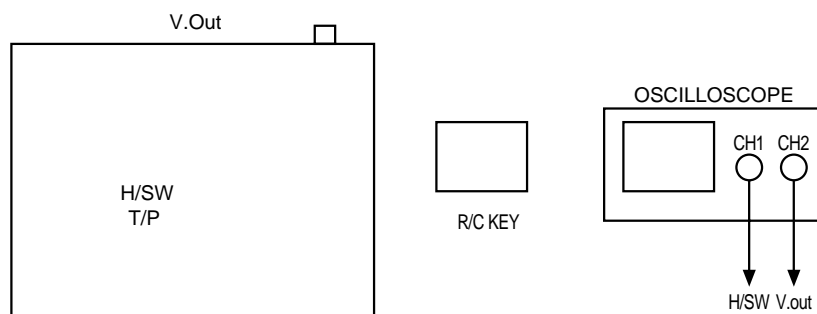
• Adjustment Procedure

- a) Insert the SP Test Tape and play.
Note - Adjust the distance of X, pressing the Tracking(+) or Tracking(-) when the "ATR" is blink after the SP Test Tape is inserted.
- b) Connect the CH1 of the oscilloscope to the H/SW and CH2 to the Video Out for the VCR.
- c) Trigger the mixed Combo Video Signal of CH2 to the CH1 H/SW, and then check the distance (time difference), which is from the selected A(B) Head point of the H/SW signal to the starting point of the vertical synchronized signal, to $6.5H \pm 0.5H$ ($412\mu s$, $1H=63\mu s$).

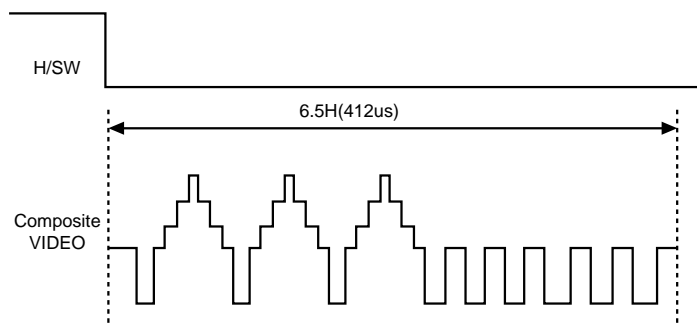
• PG Adjustment Method

- a-1) Playback the SP standard tape
- b-2) Press the "1" key on the Remote controller and the "PLAY" key on the Front Panel at the same time, then it goes into Tracking initial mode.
- c-3) Repeat the above step(No.b-2), then it finishes the PG adjusting automatically.
- d-4) Stop the playback, then it goes out to PG adjusting mode after many the PG data.

• CONNECTION



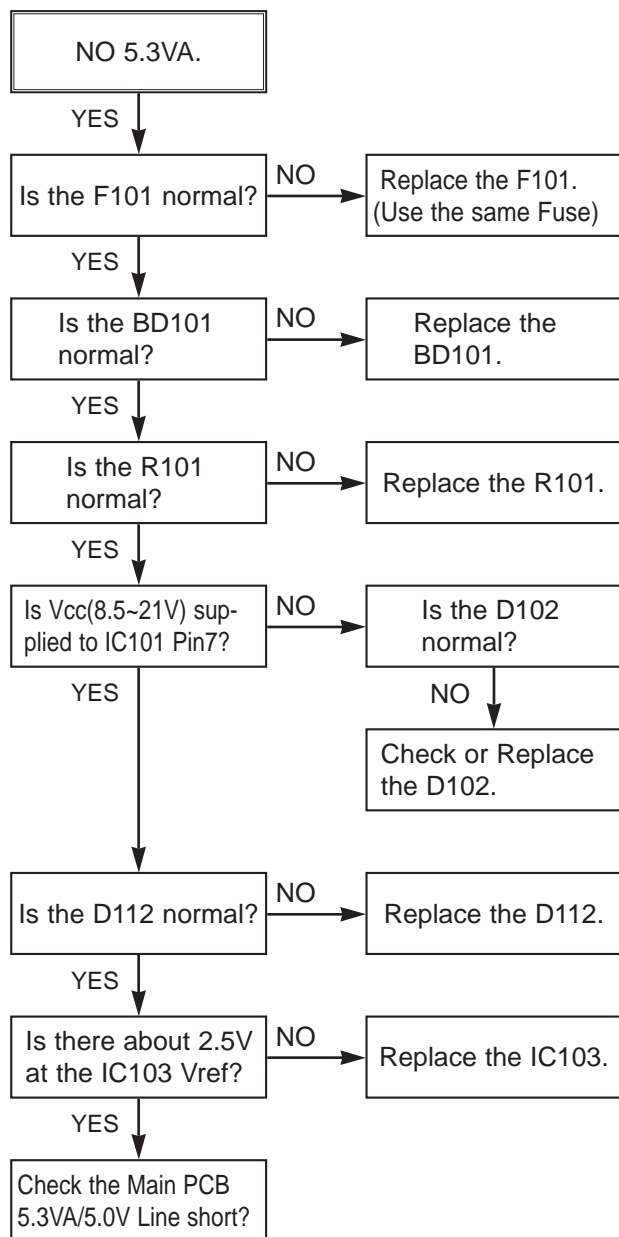
• WAVEFORM



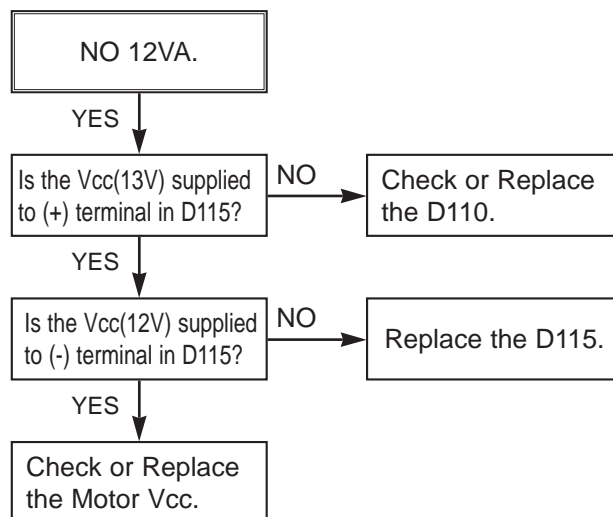
ELECTRICAL TROUBLESHOOTING GUIDE

1. Power(SMPS) CIRCUIT

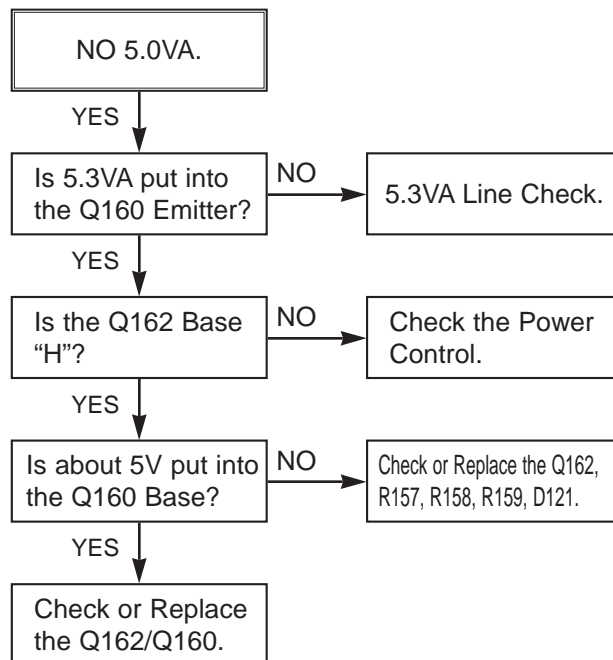
(1) No 5.3VA (SYS/TUNER)



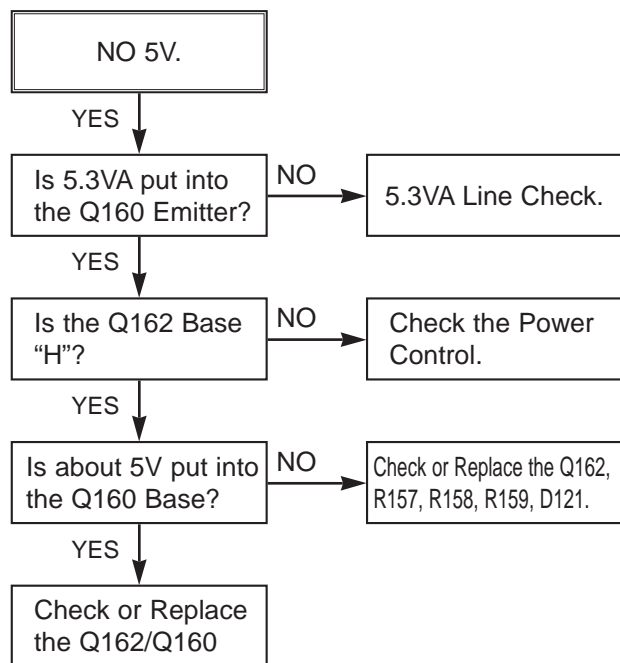
(2) No 12VA (TO CAP, DRUM MOTOR)



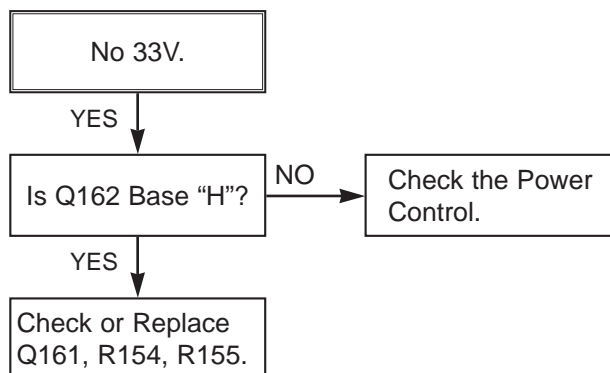
(3) No 5.0V (SYS, Hi-Fi, TUNER, Y/C)



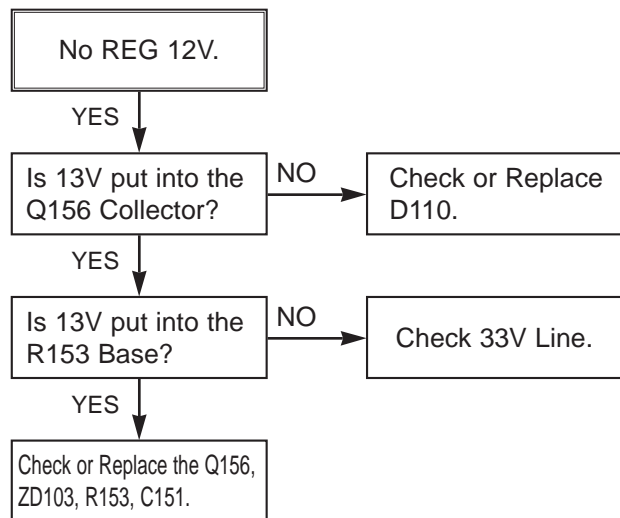
(4) No 5V (TO DVD)



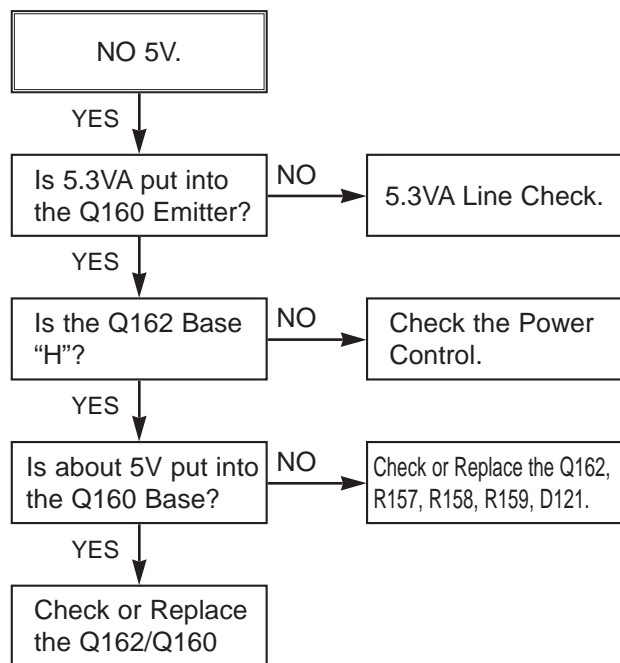
(5) No 33V (TUNER)



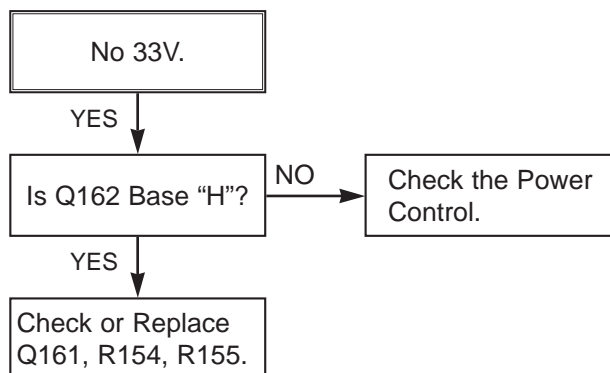
(6) No REG 12V



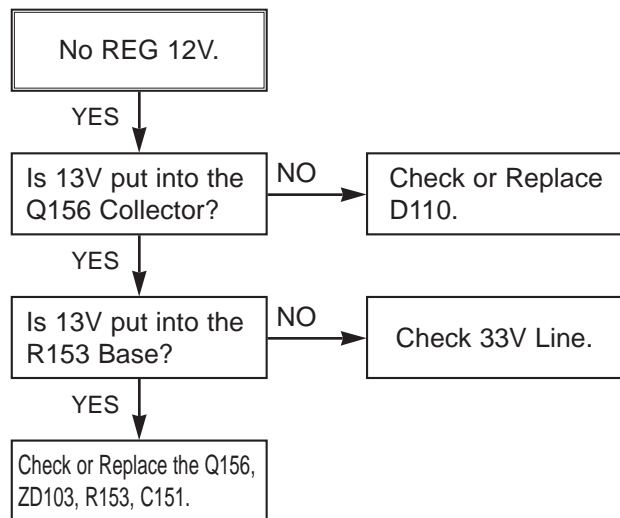
(4) No 5V (TO DVD)



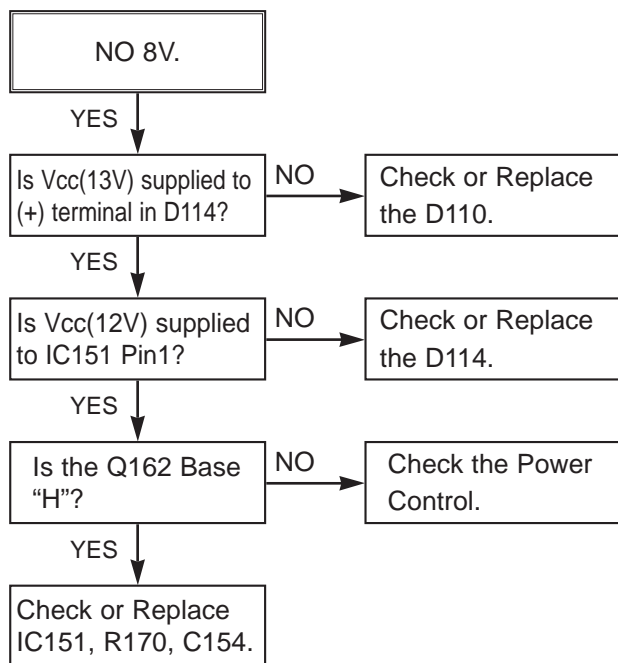
(5) No 33V (TUNER)



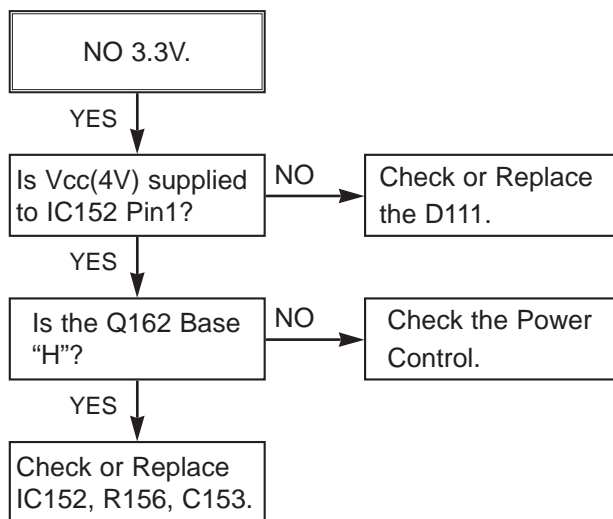
(6) No REG 12V



(7) No 8V(TO DVD)

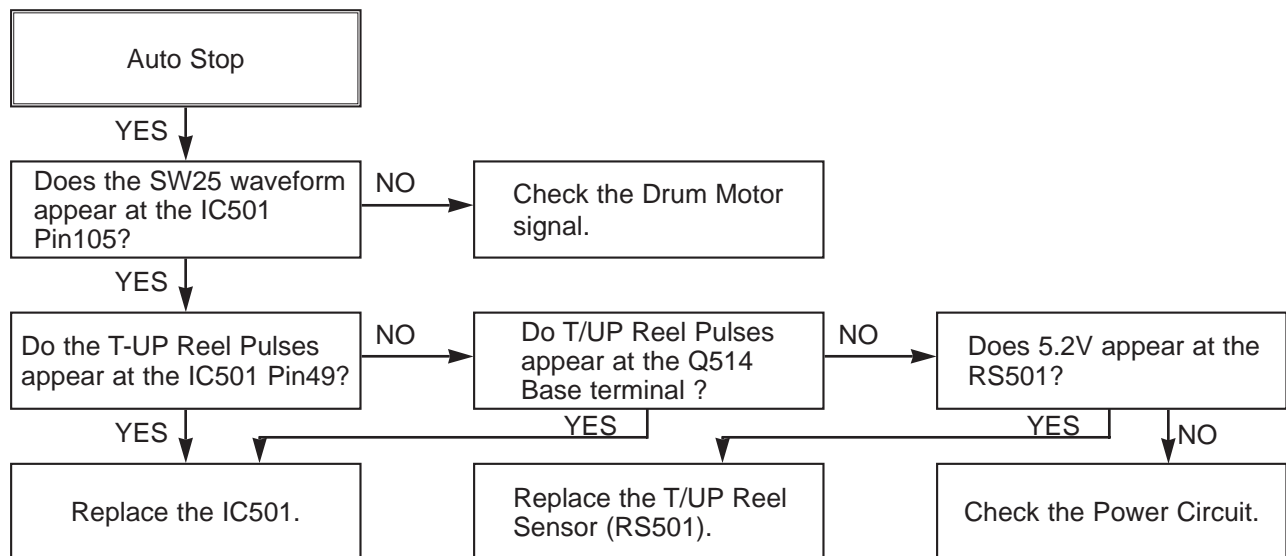


(8) No 3.3V(TO DVD)

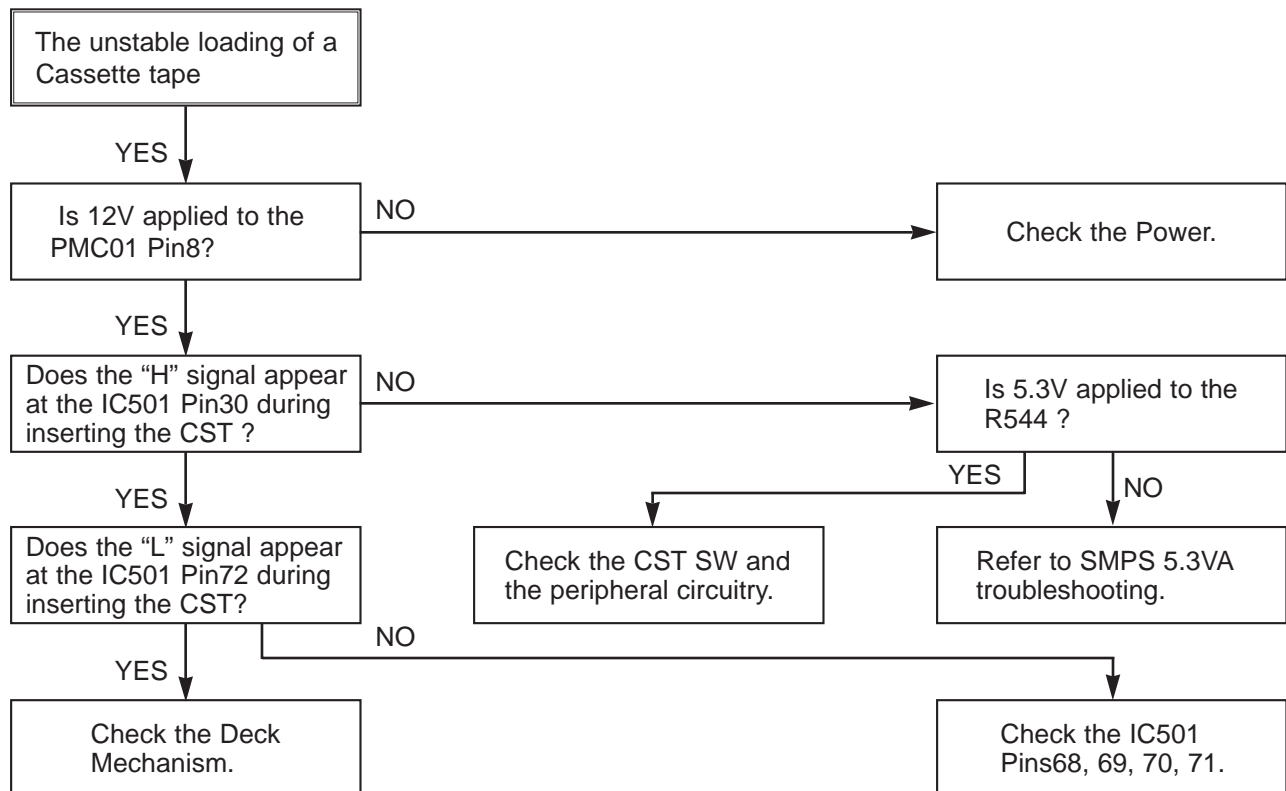


2. SYSTEM/KEY CIRCUIT

(1) AUTO STOP



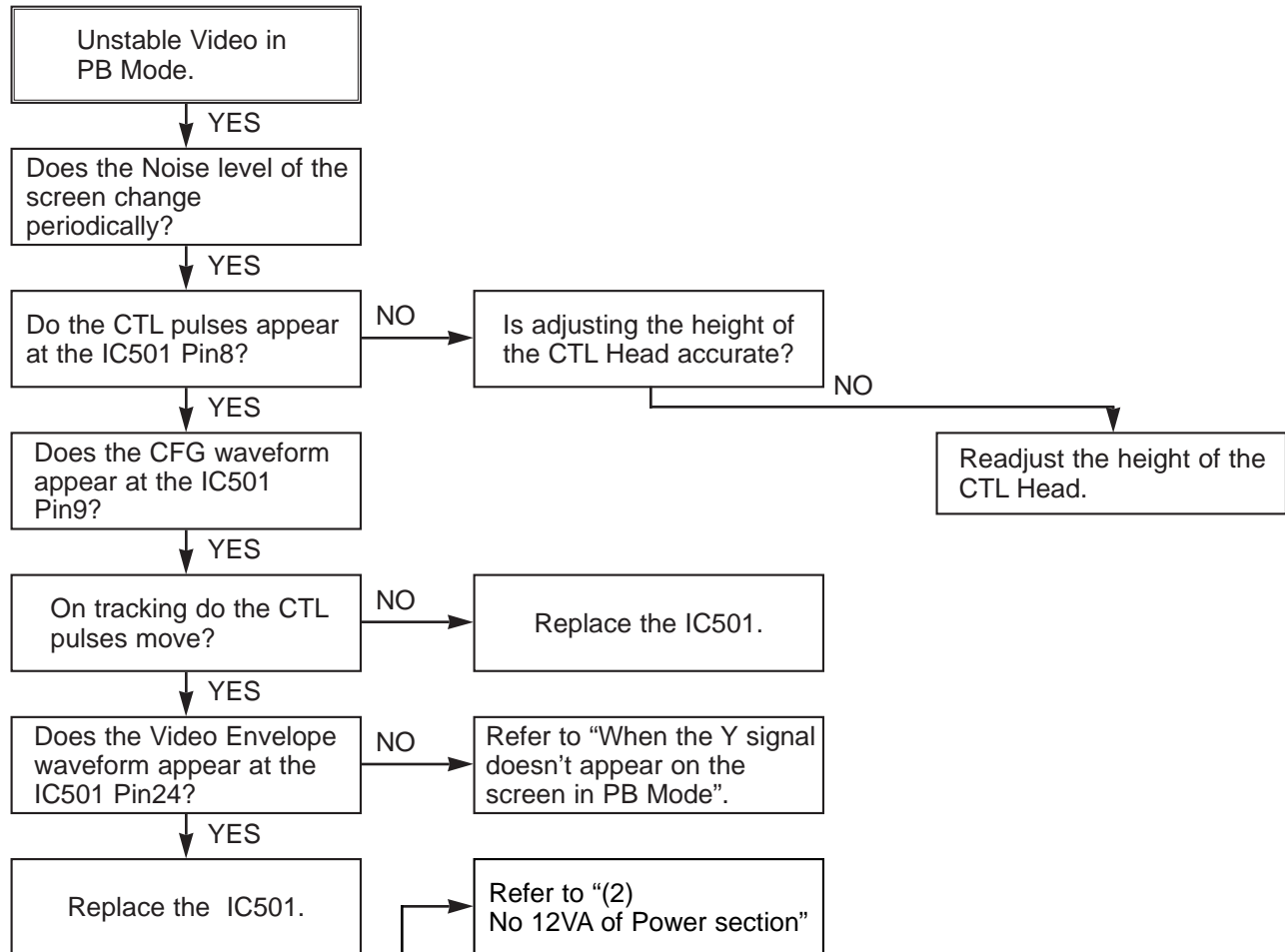
(2) The unstable loading of a Cassette tape



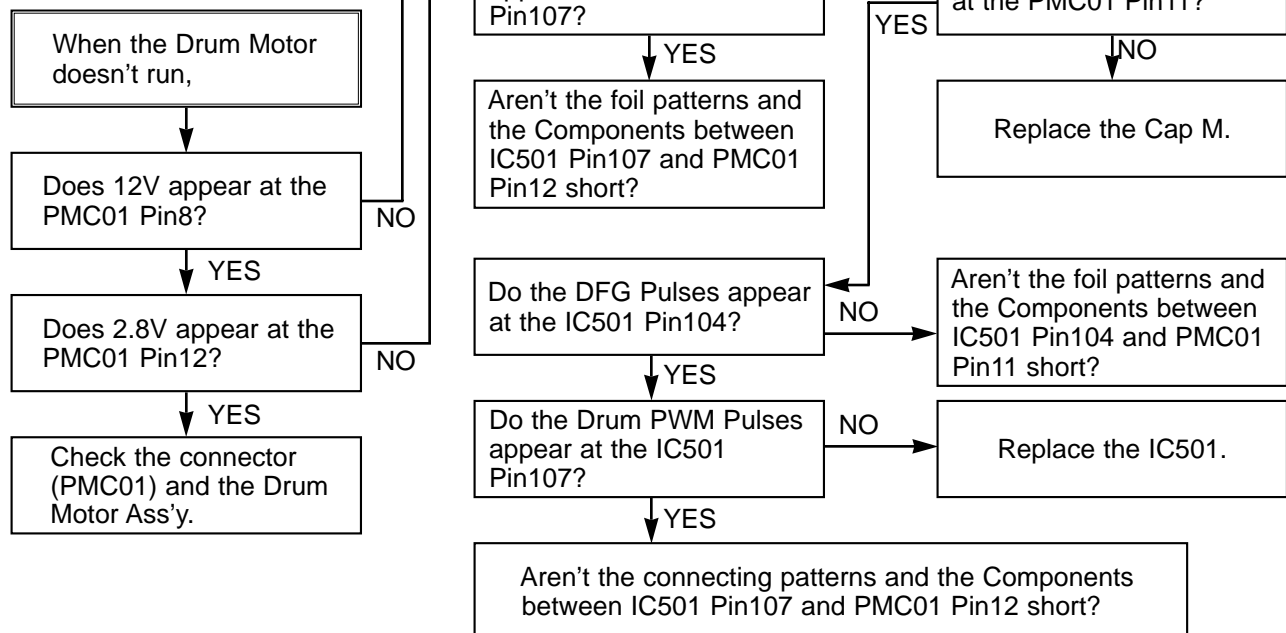
Caution : Auto stop can occur because Grease or Oil is dried up

3. SERVO CIRCUIT

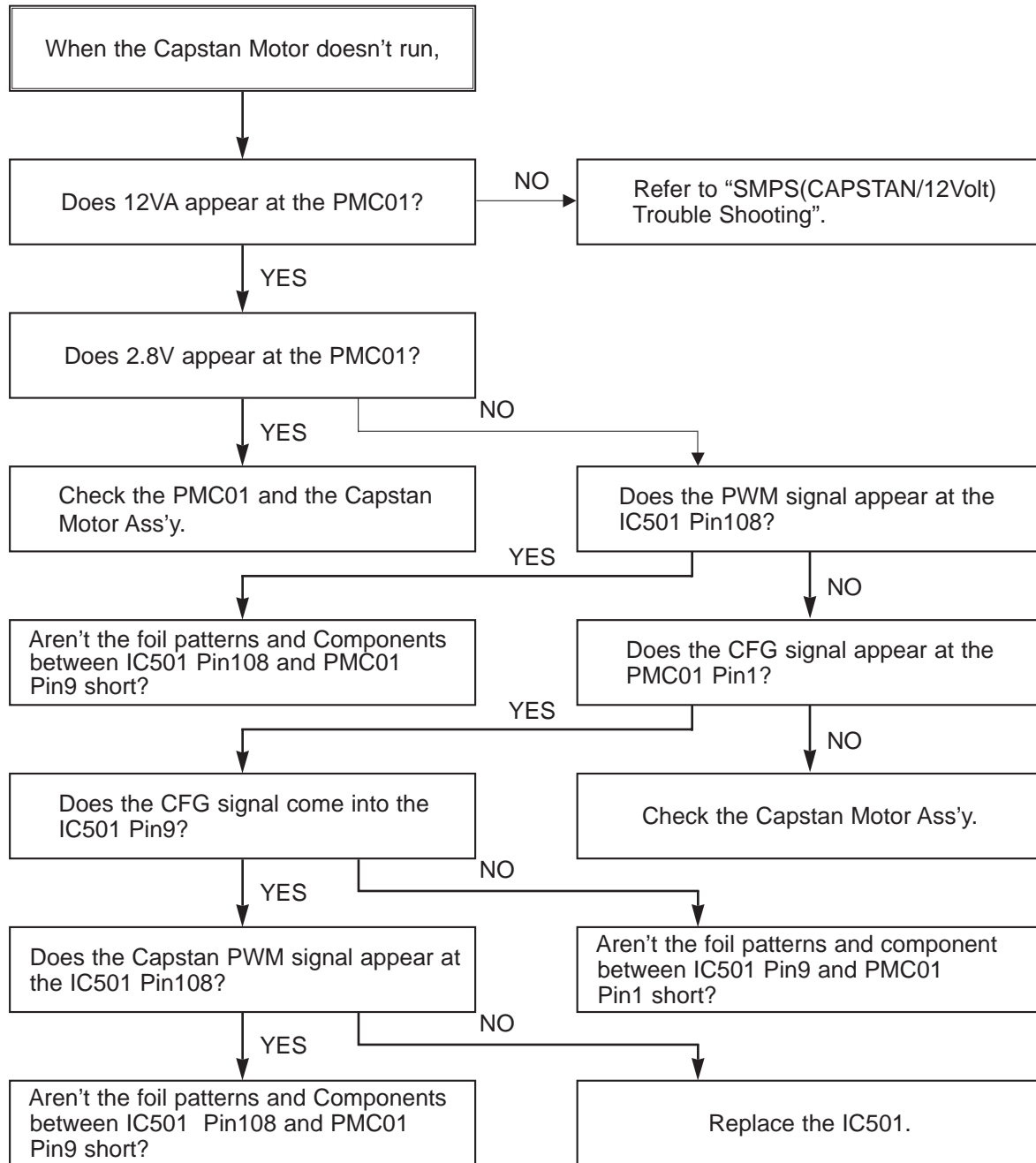
(1) Unstable Video in PB MODE



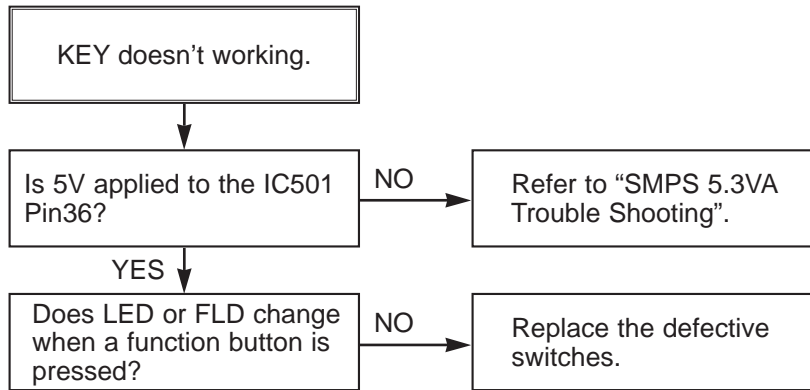
(2) When the Drum Motor doesn't run.



(3) When the Capstan Motor doesn't run,

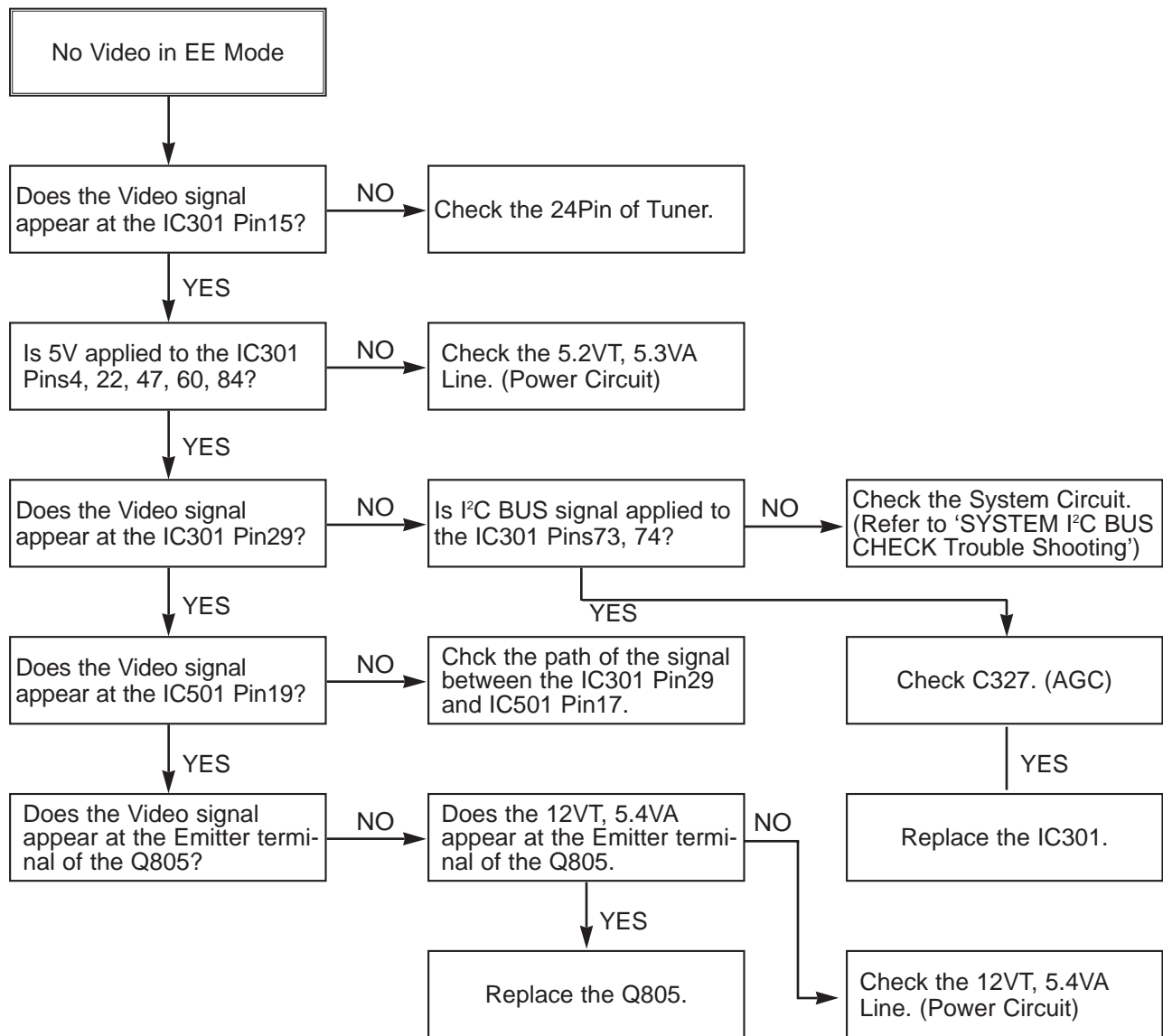


(4) KEY doesn't working

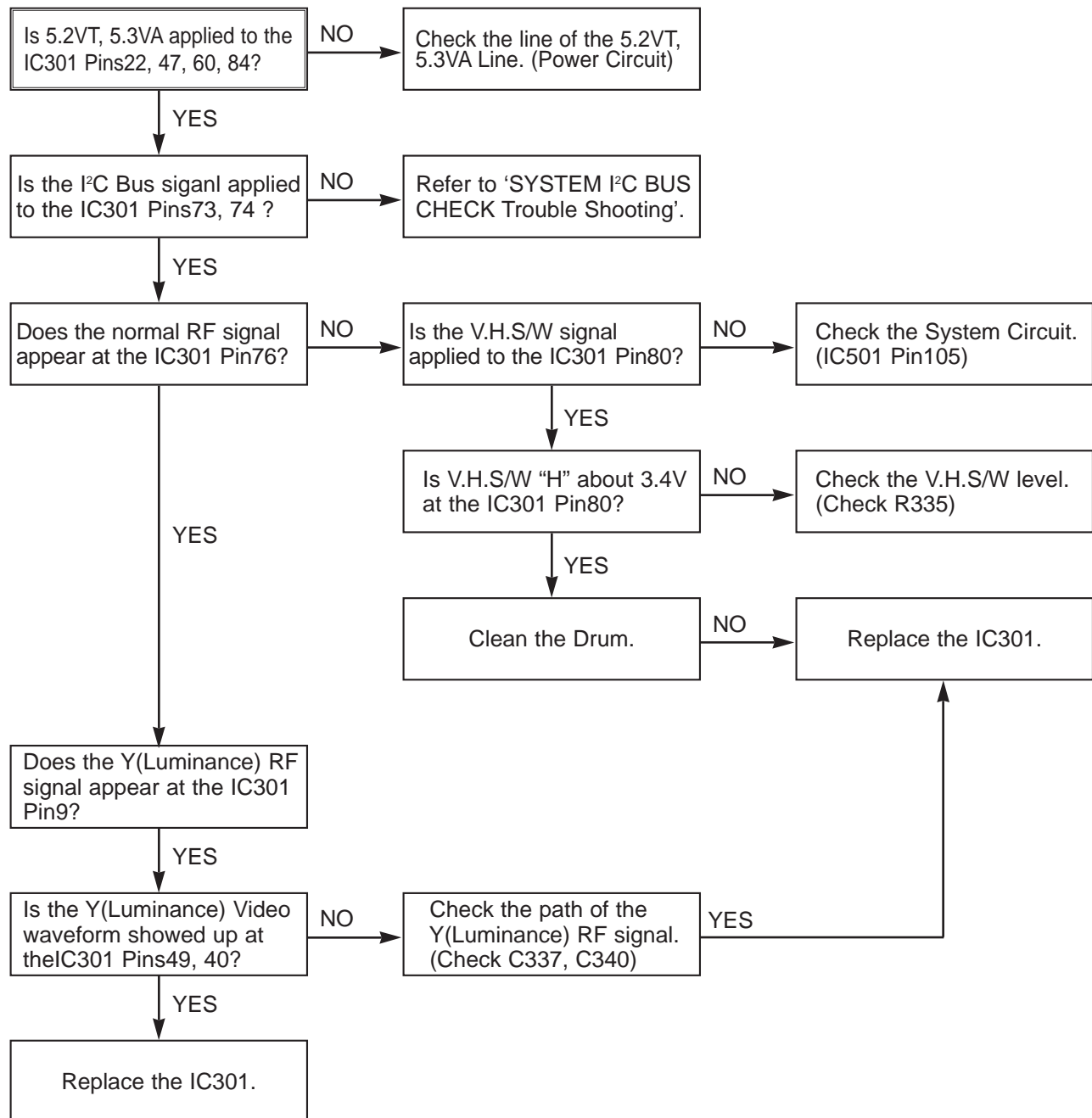


4. Y/C CIRCUIT

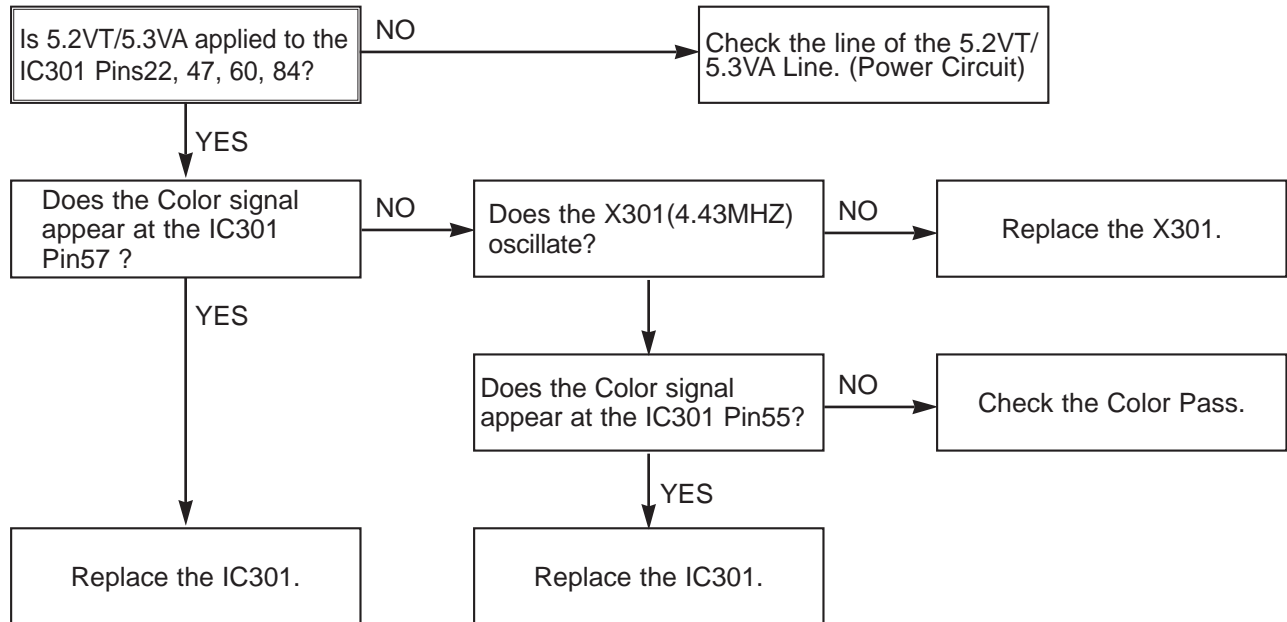
(1) No Video in EE Mode,



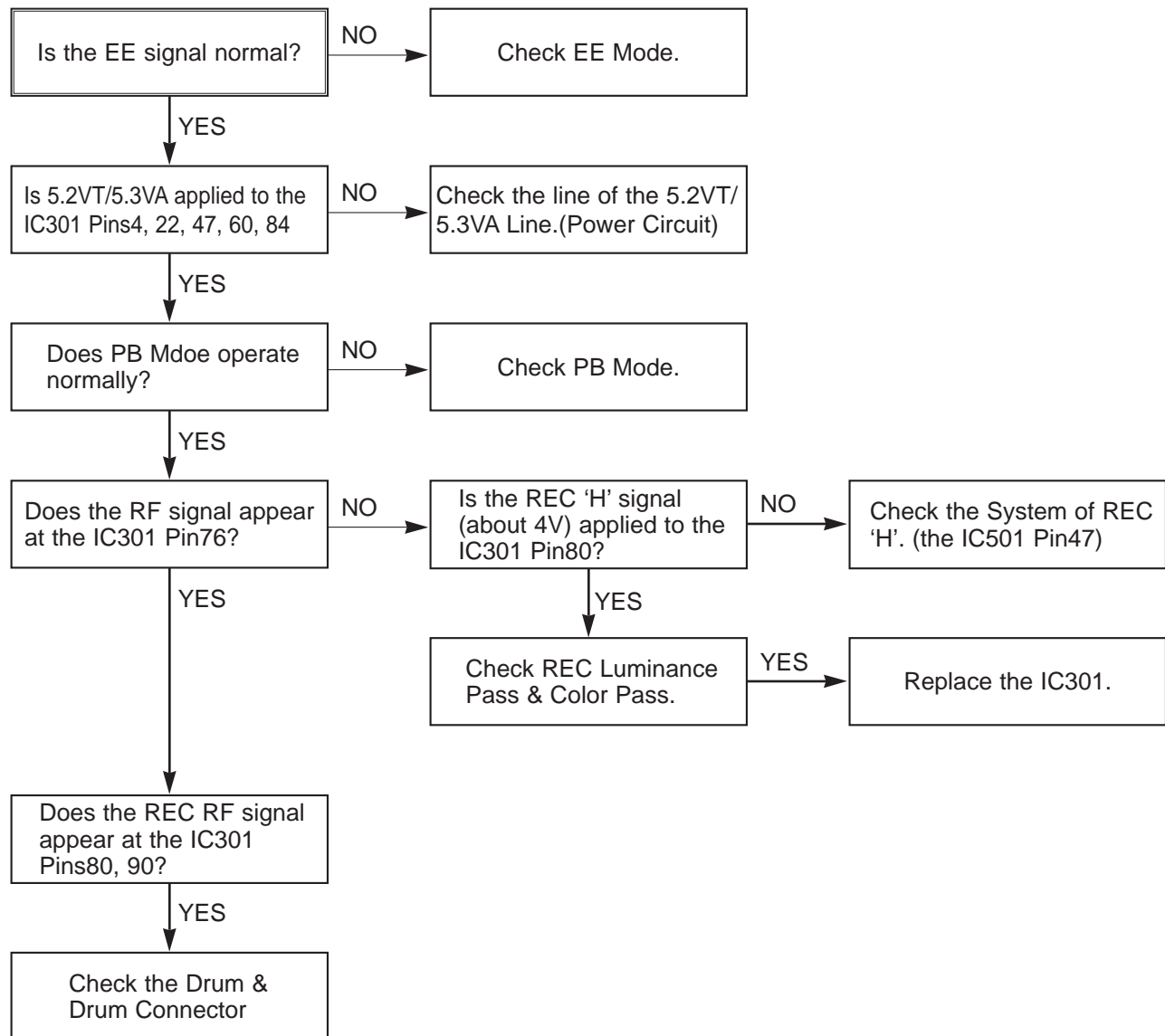
(2) When the Y(Luminance) signal doesn't appear on the screen in PB Mode,



(3) When the C(Color) signal doesn't appear on the screen in PB Mode,

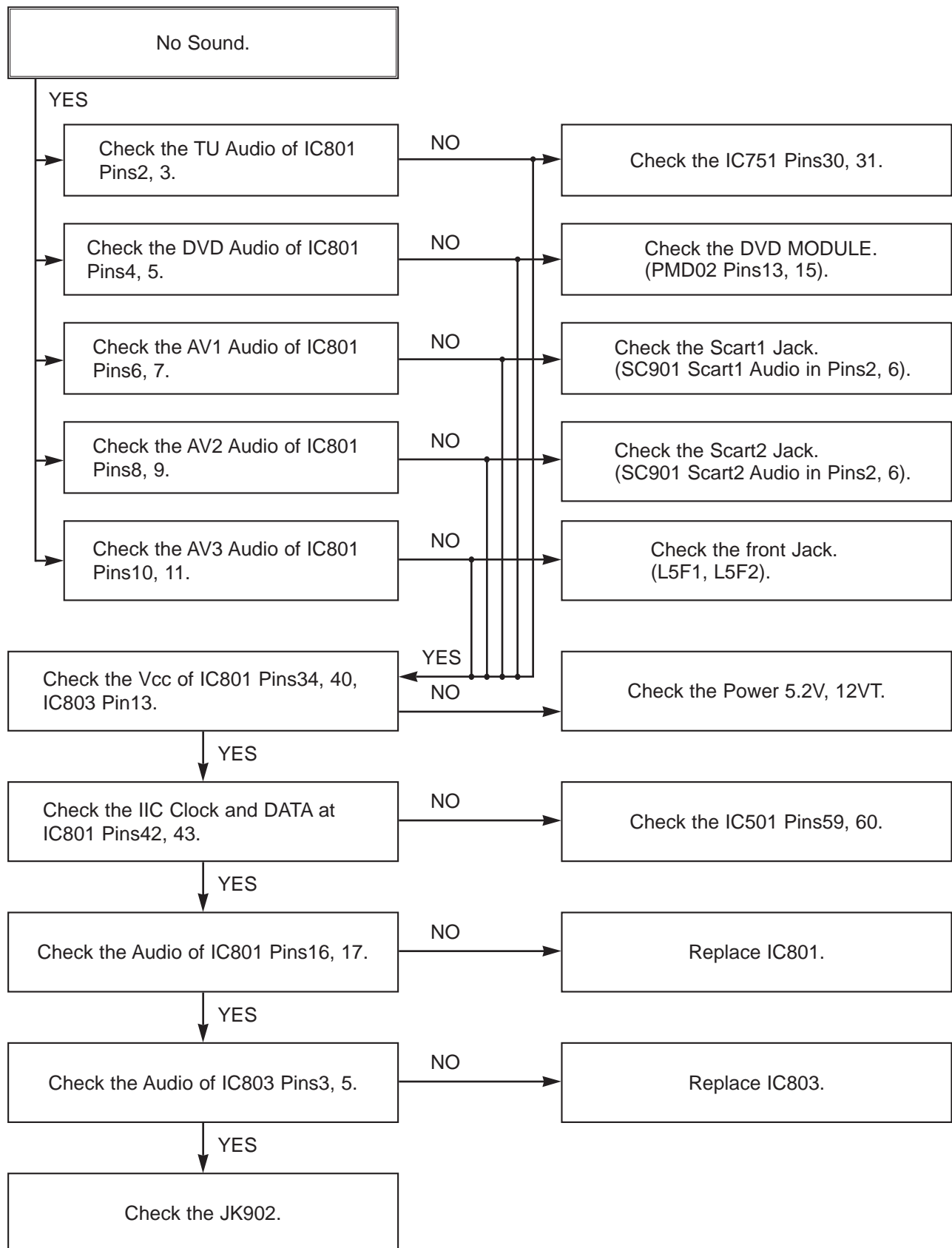


(4) When the Video signal doesn't appear on the screen in REC Mode,

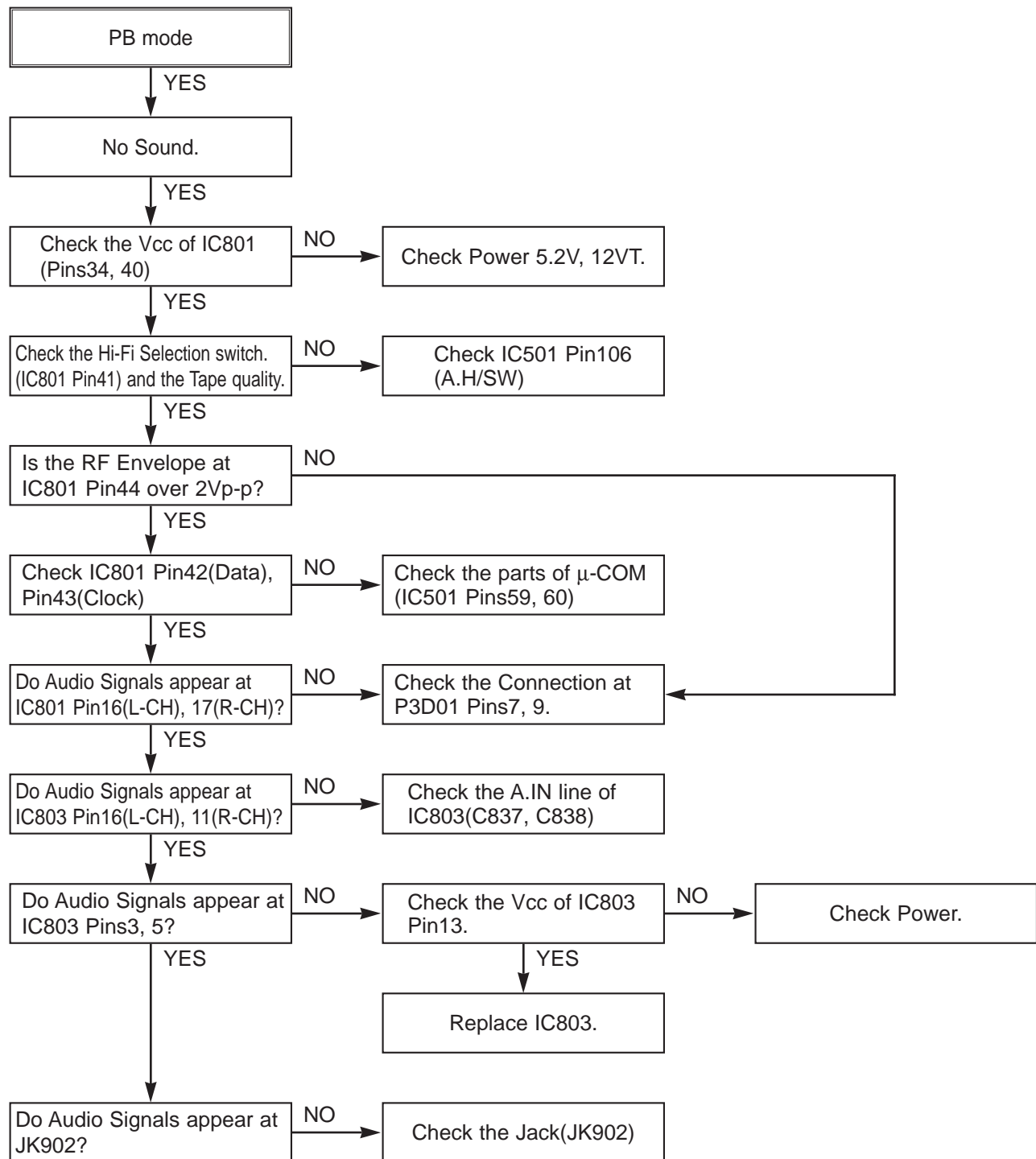


5. Hi-Fi CIRCUIT

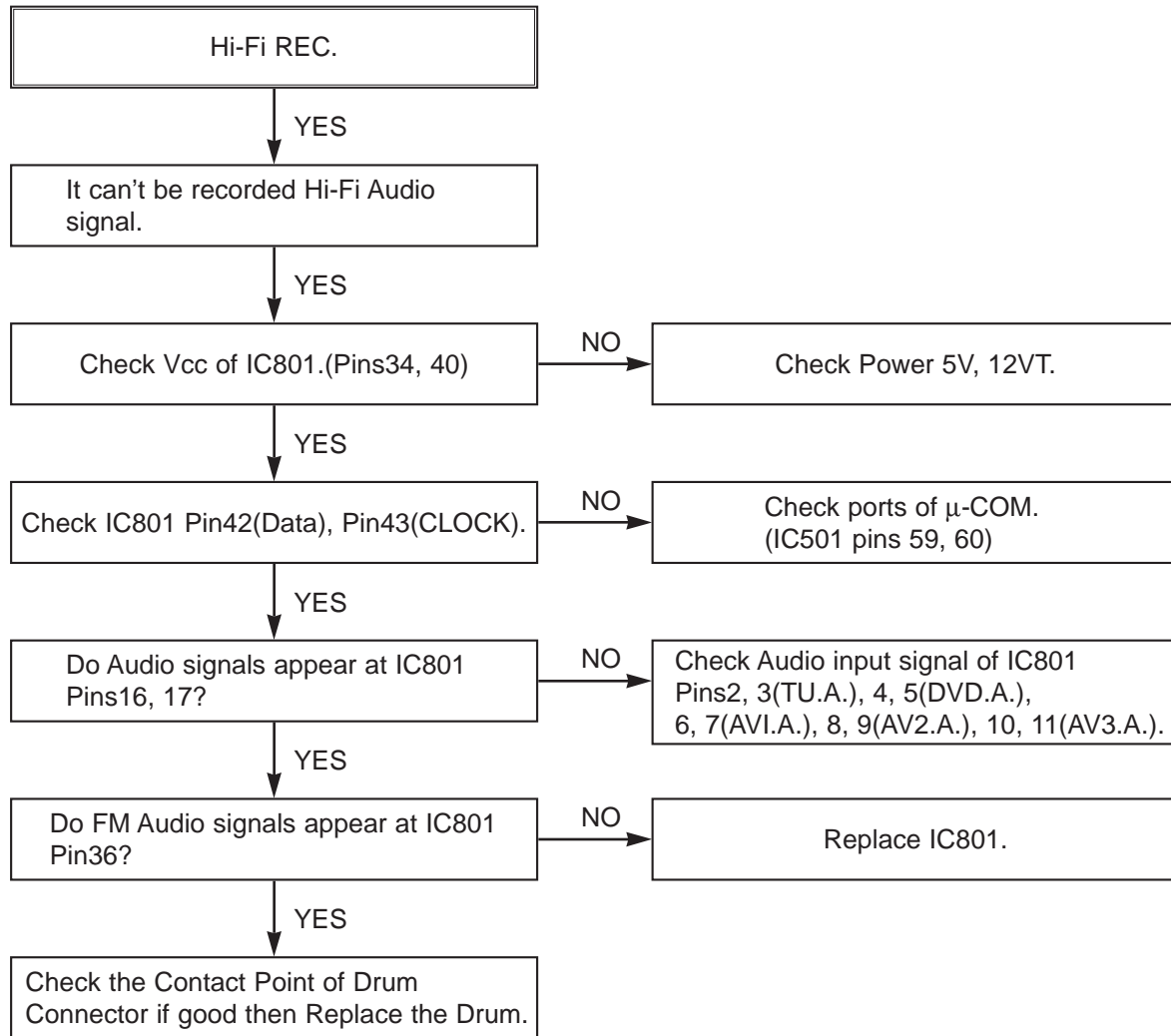
(A) No Sound(EE Mode)



(B) Hi-Fi Playback

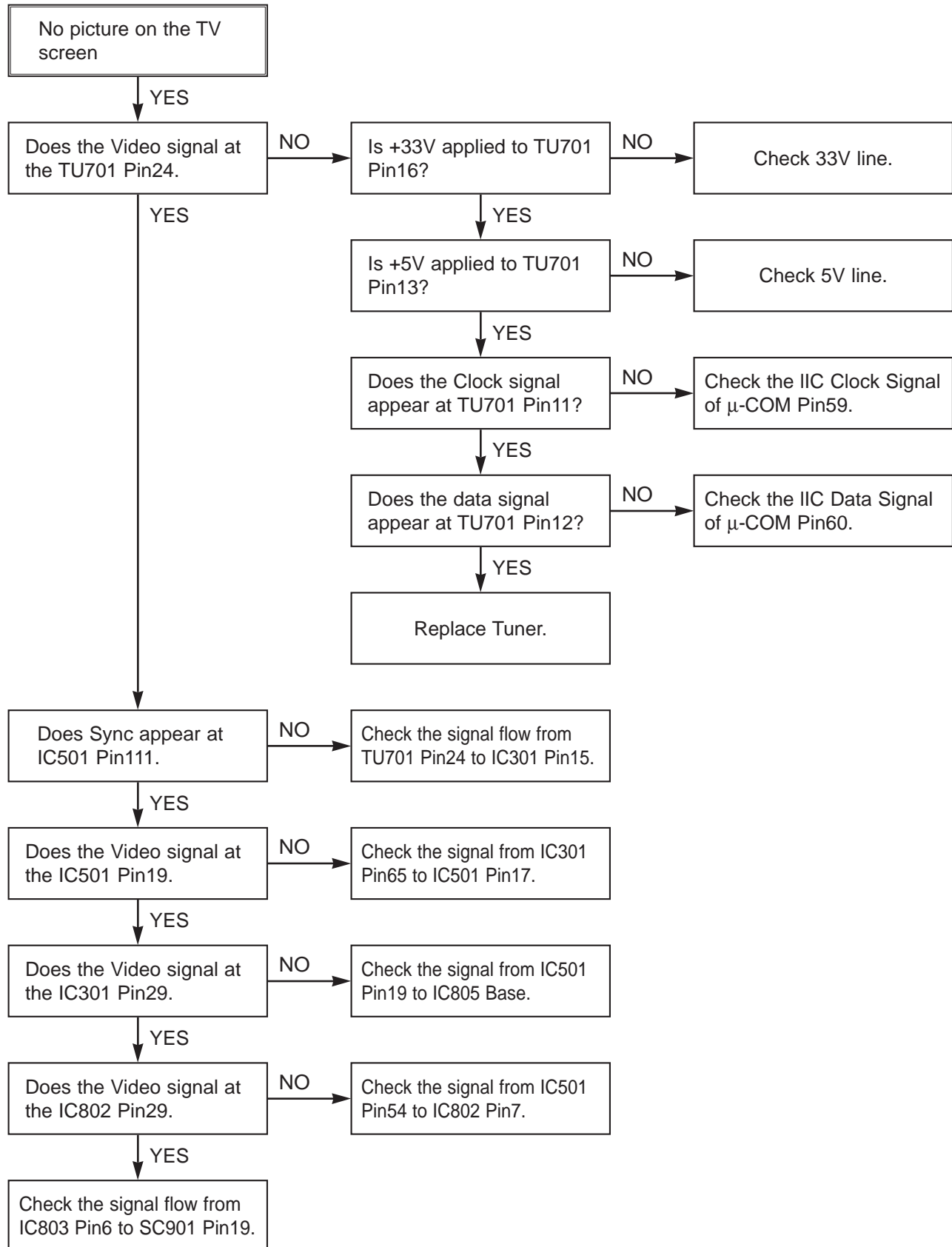


(C)

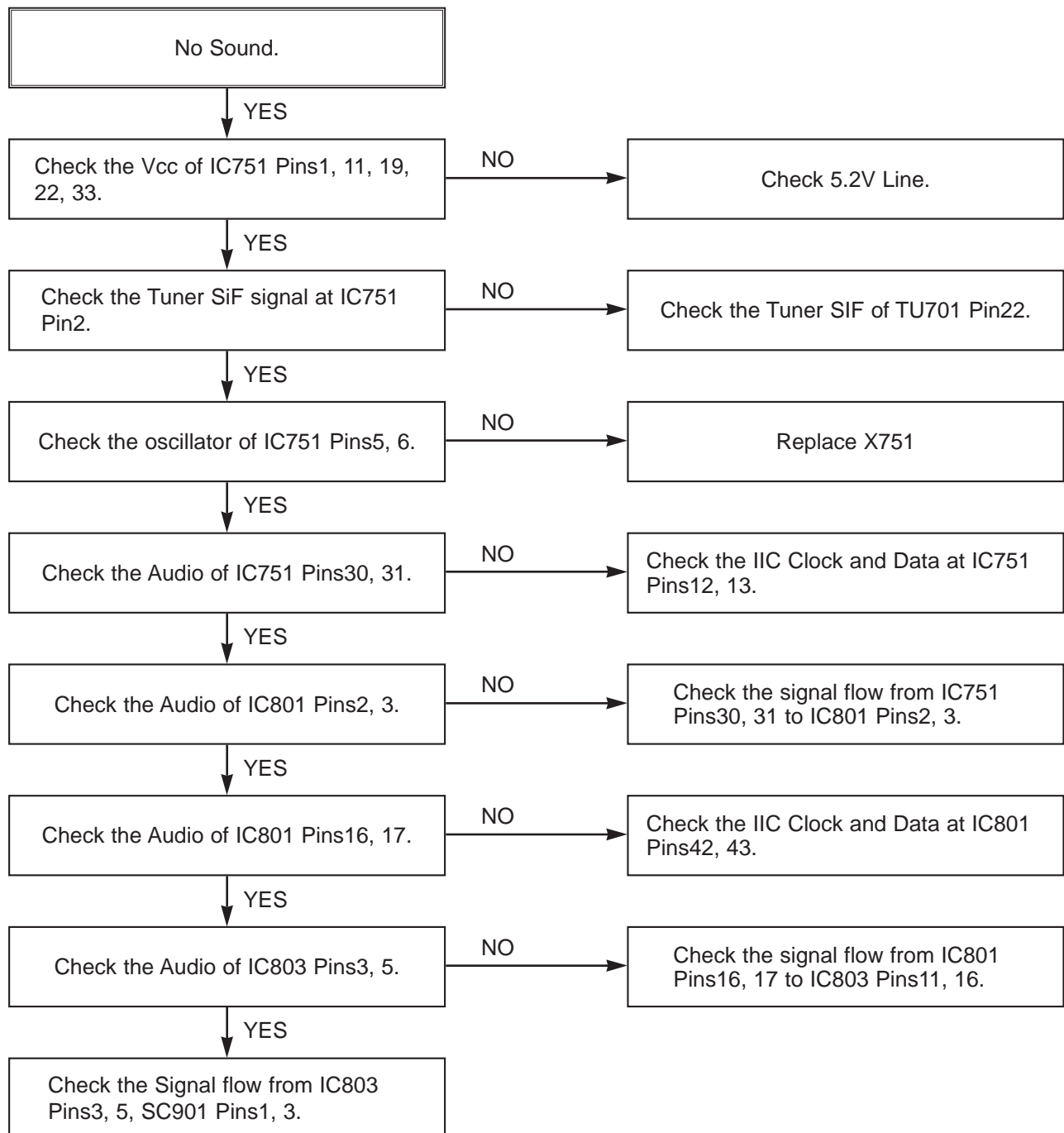


6. Tuner/IF CIRCUIT

(A) No Picture on the TV screen



(B) No Sound

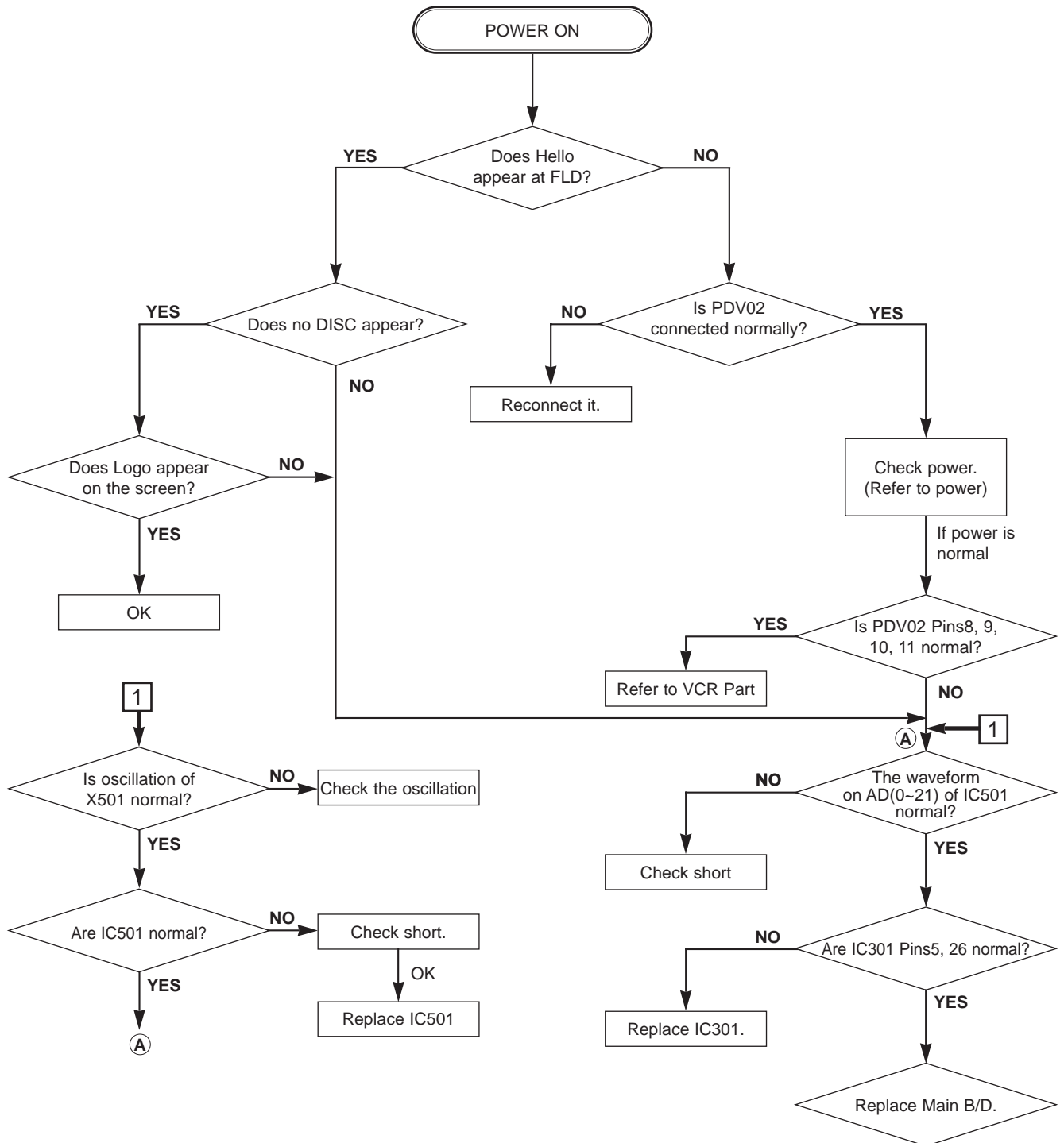


DVD PART

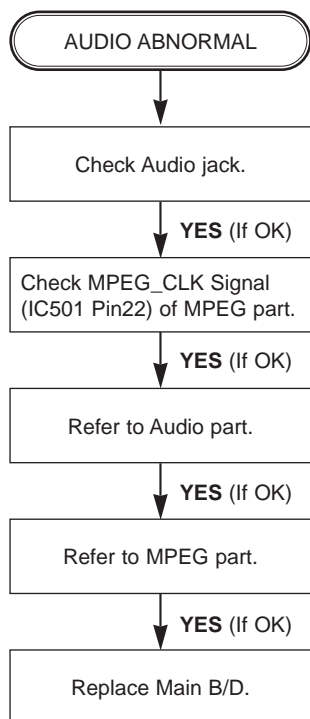
ELECTRICAL TROUBLESHOOTING GUIDE

1. μ -COM Circuit

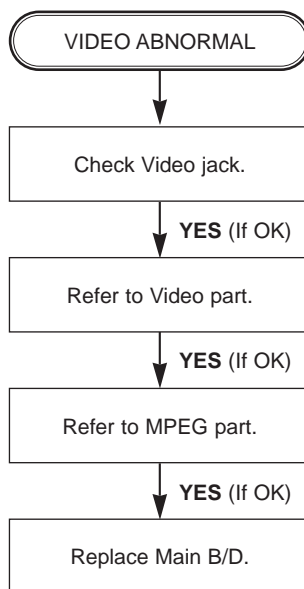
A. No Power



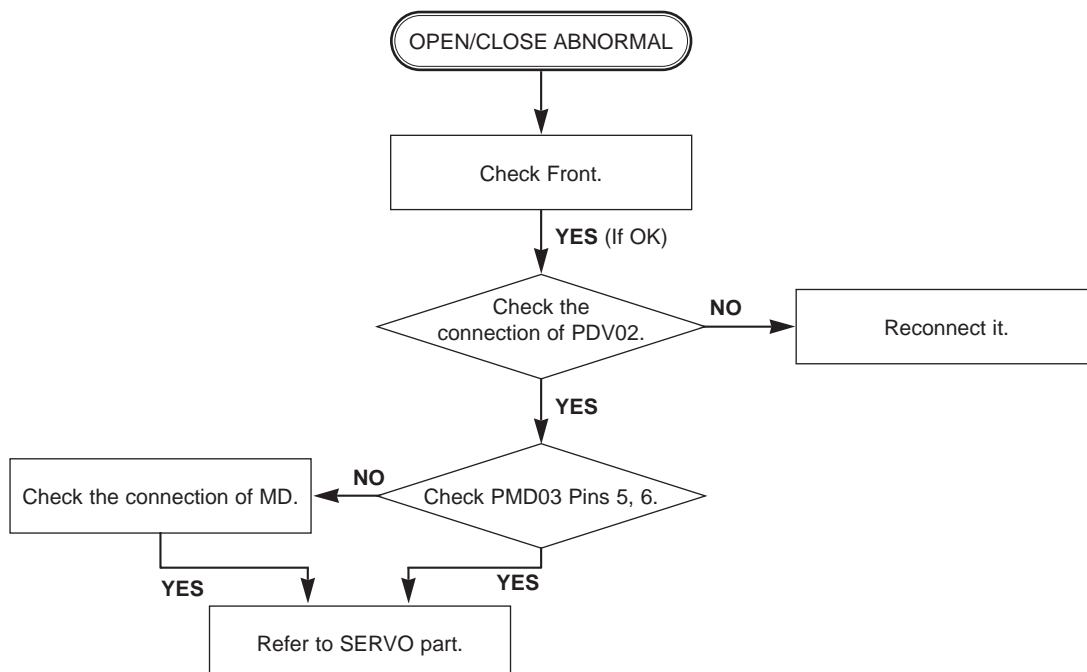
B. Audio abnormal



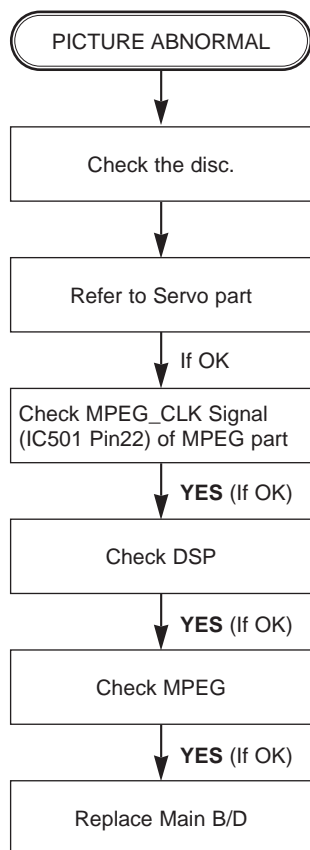
C. Video abnormal



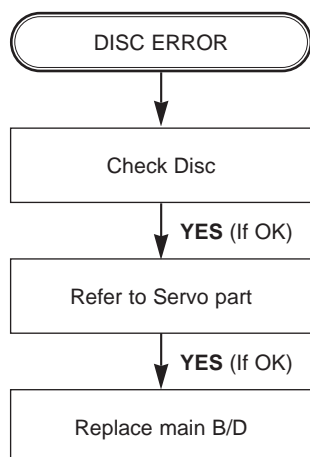
D. Open/Close abnormal



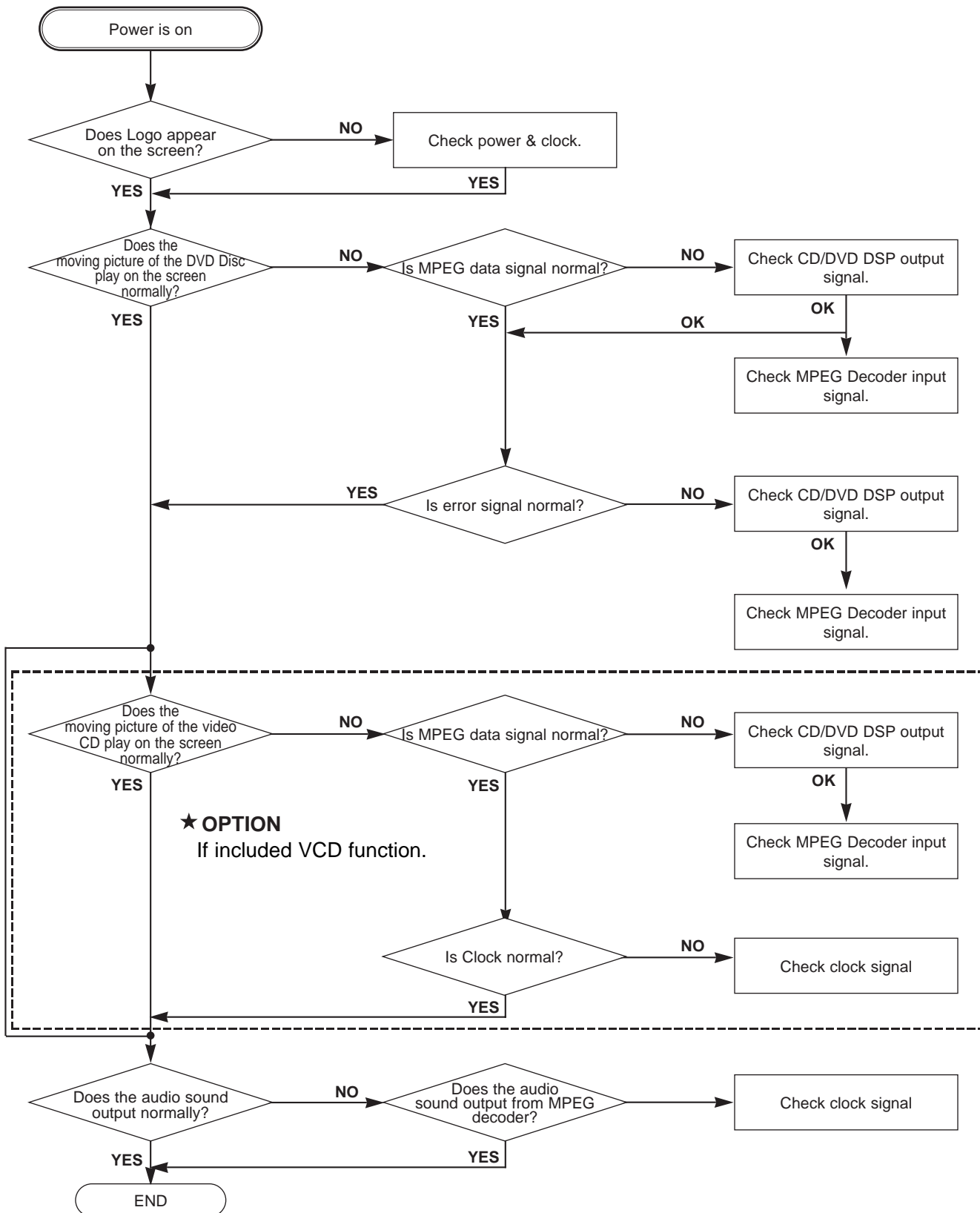
E. Picture abnormal



F. Disc Error

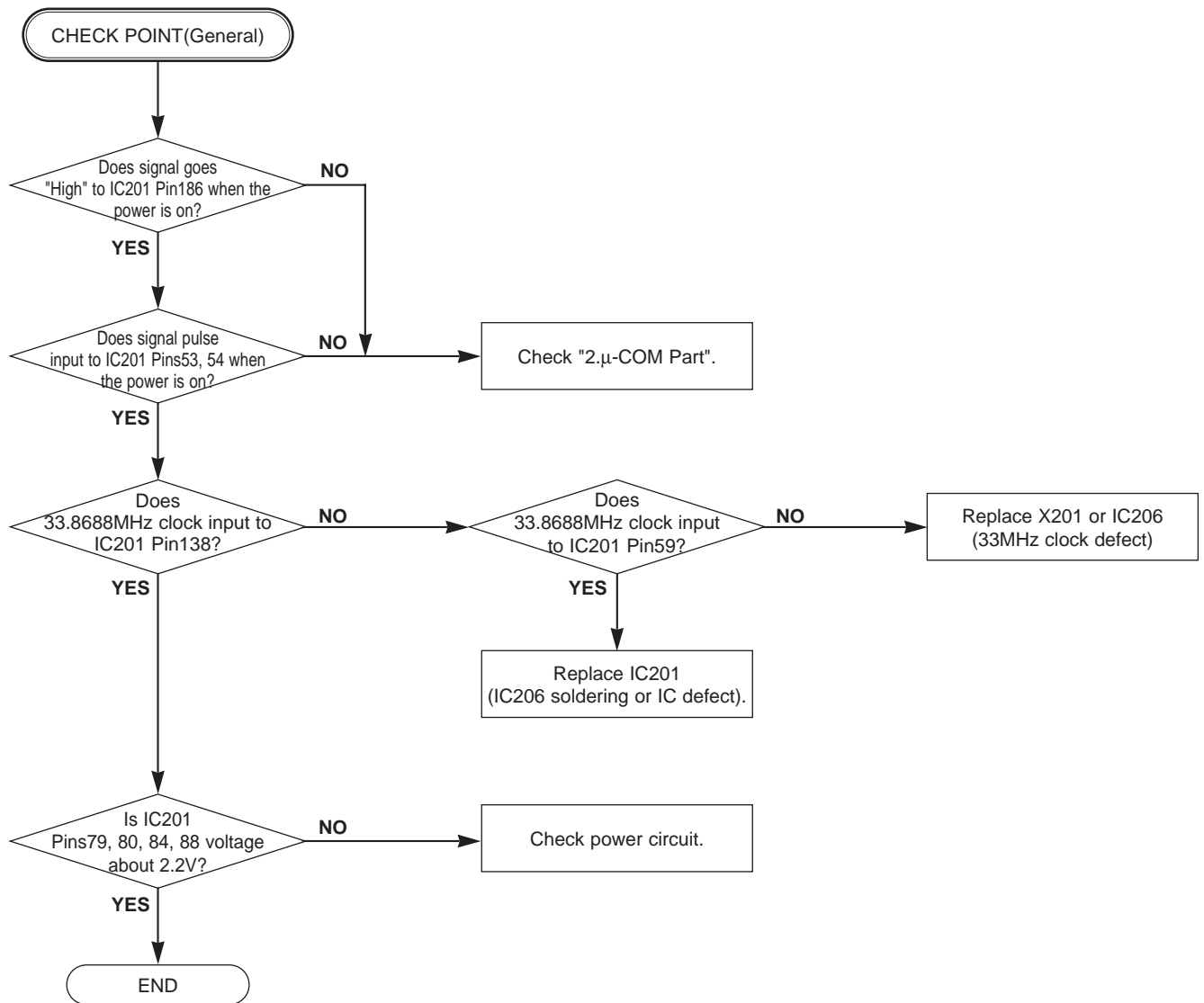


2. MPEG Circuit

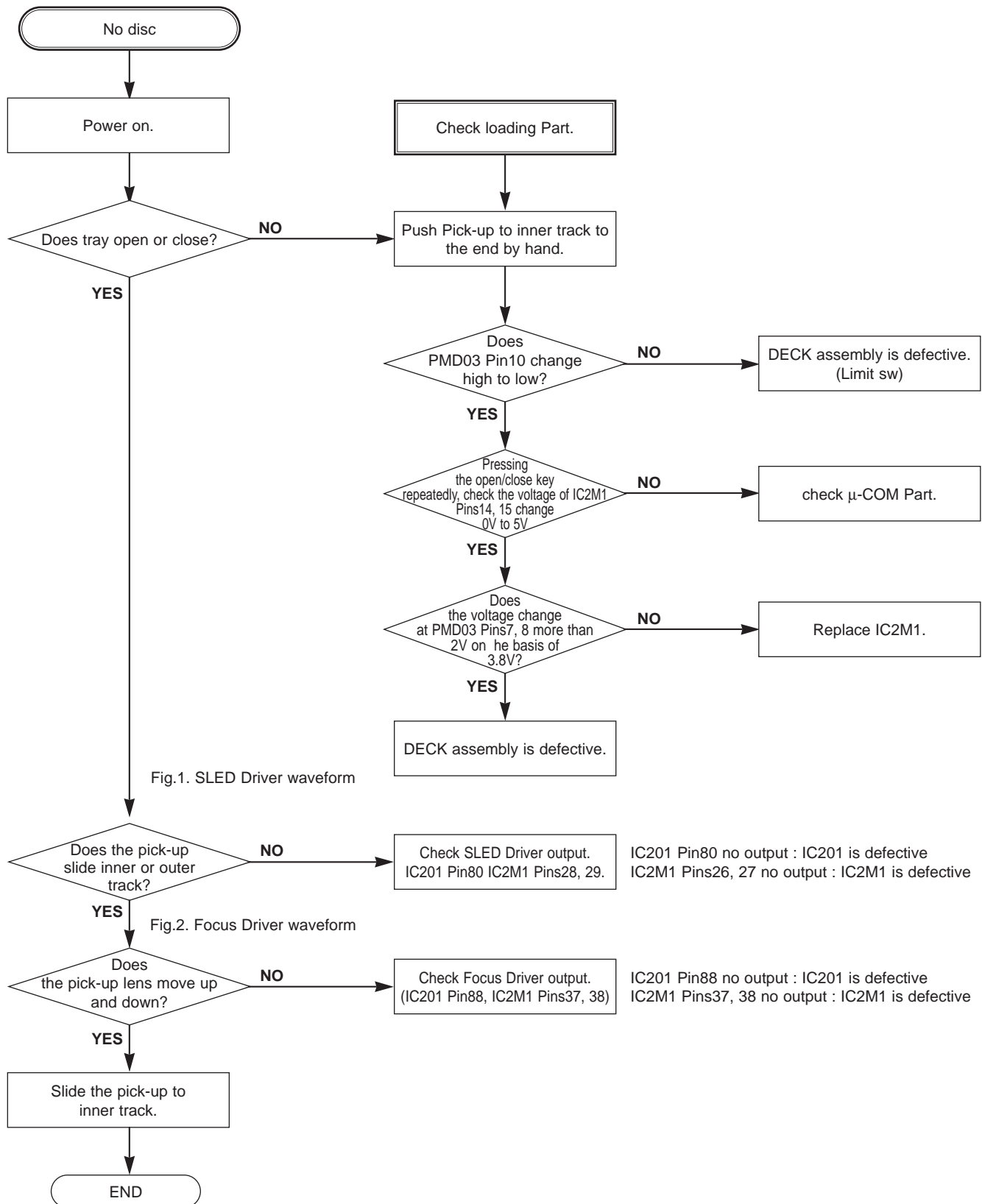


3. RF/Servo Circuit

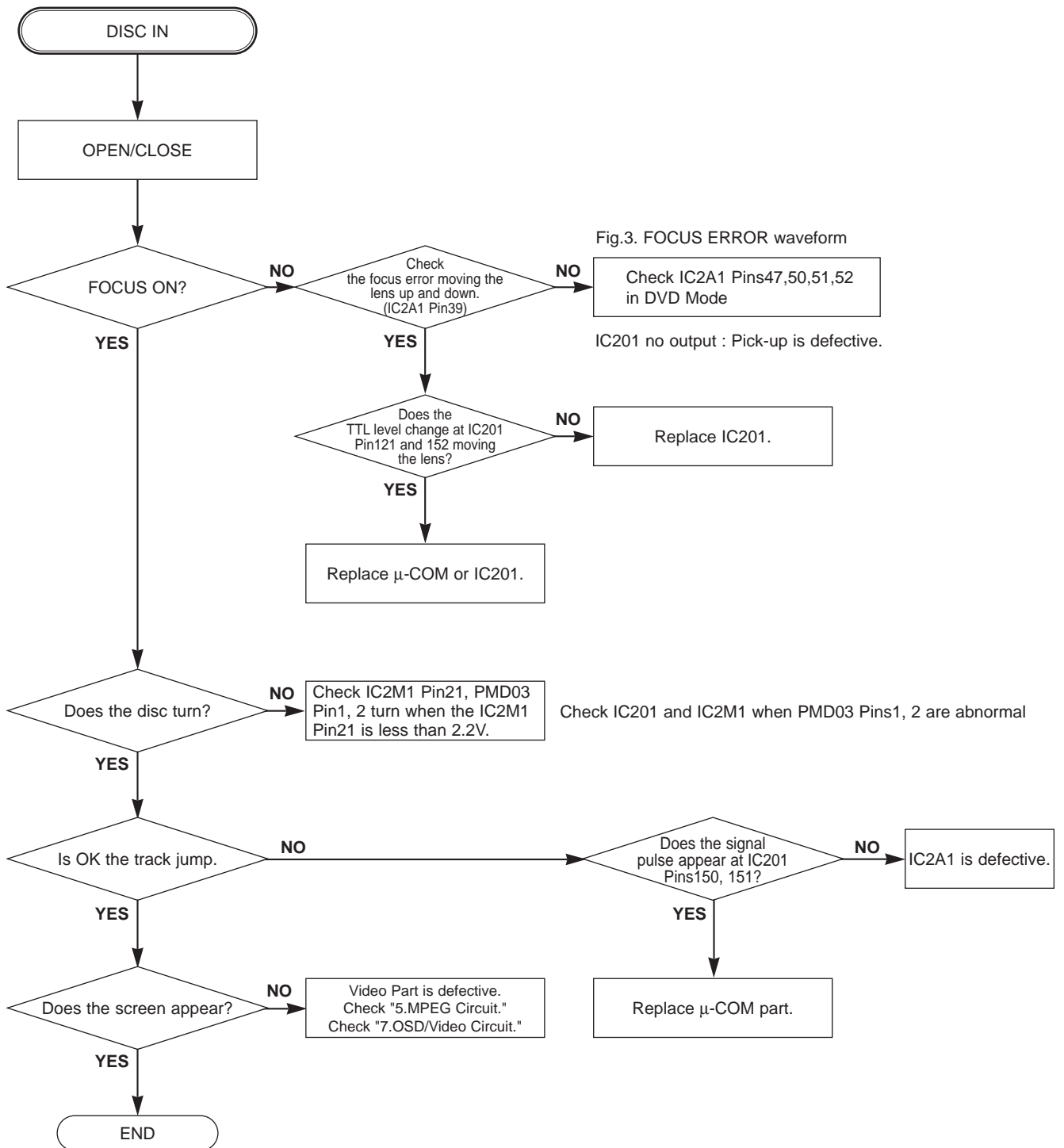
A.



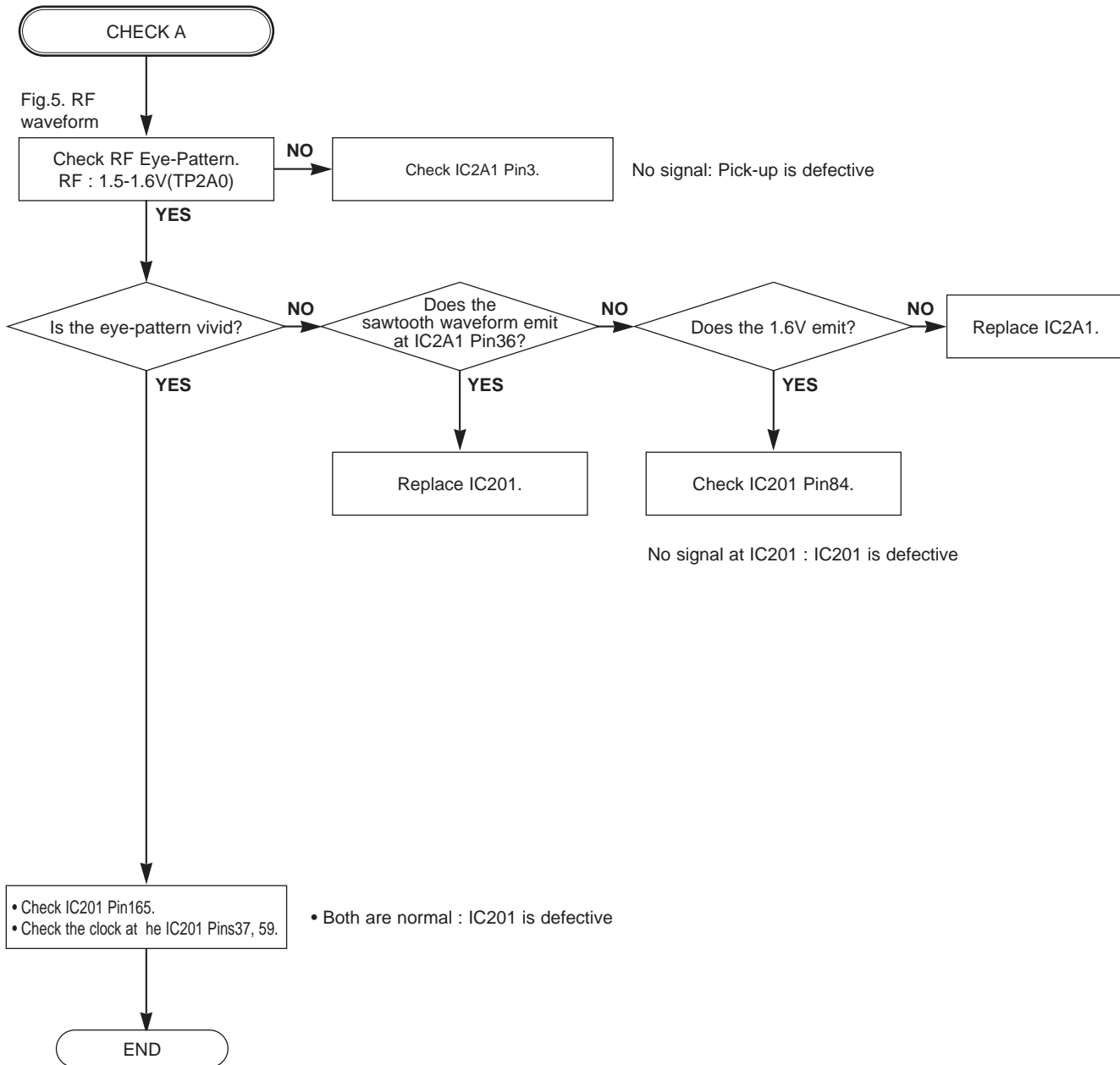
B.



C.



D.



SECTION 4 MECHANISM OF VCR PART

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MECHANISM TROUBLESHOOTING GUIDE

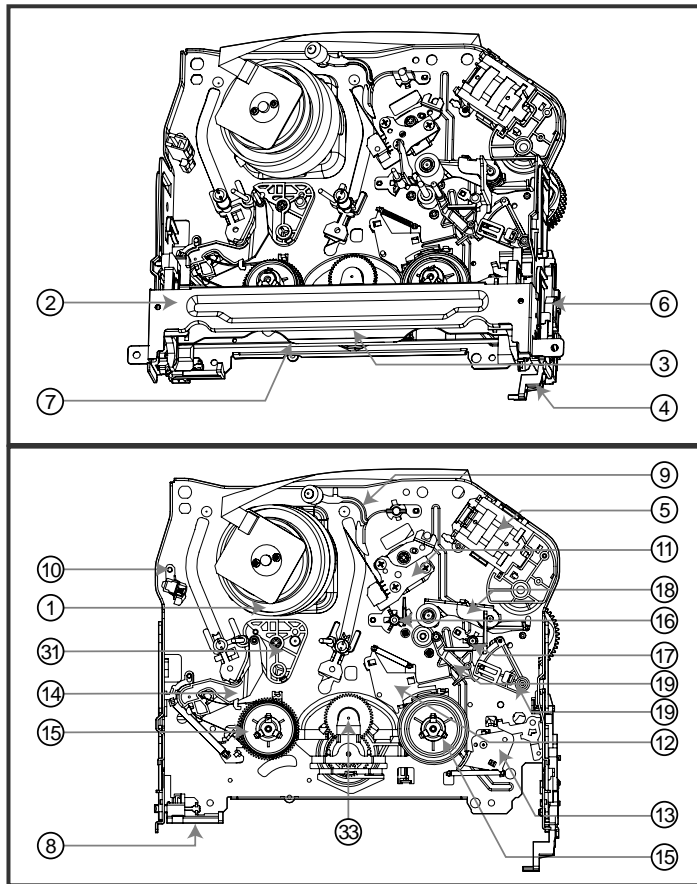
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EXPLODED VIEWS

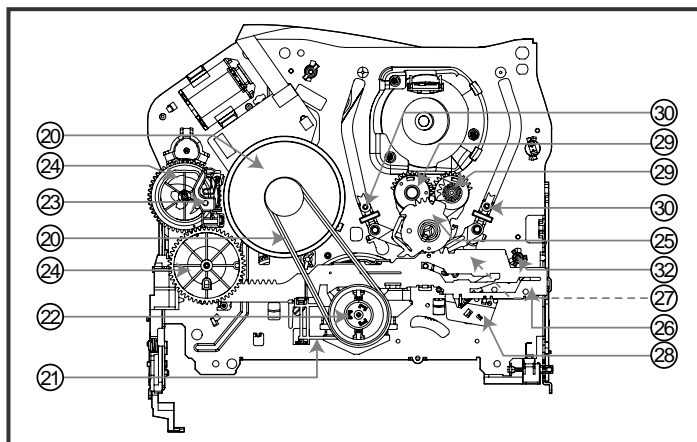
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-

DECK MECHANISM PARTS LOCATIONS

• Top View



• Bottom View



NOTE : When reassembly perform the procedure in the reverse order.

- 1) When reassembling, confirm Mechanism and Mode Switch Alignment Position (Refer to Page 4-13)
- 2) When disassembling, the Parts for Starting No. Should be removed first.

Starting No.	Procedure	Part	Fixing Type	Figure	View
	1	Drum Assembly	3 Screw	A-1	T
	2	Plate Top	2 Hook	A-2	T
2	3	Holder Assembly CST	Chassis Hole	A-2	T
2	4	Opener Door	Chassis Hole	A-2	T
	5	Bracket Assembly L/D Motor	3 Hook	A-2	T
2,3,4	6	Gear Assembly Rack F/L	1 Hook, Chassis Hole	A-2	T
2,3,4,6	7	Arm Assembly F/L	Chassis Hole	A-2	T
	8	Lever Assembly S/W	1 Hook	A-2	T
	9	Arm Assembly Cleaner	Chassis Embossing	A-3	T
	10	Head F/E	Chassis Embossing	A-3	T
	11	Base Assembly A/C Head	1 Screw	A-3	T
2,3	12	Brake Assembly T	1 Hook	A-4	T
2,3	13	Brake Assembly RS	1 Hook	A-4	T
2,3	14	Arm Assembly Tension	2 Hook	A-4	T
2,3,12,13, 14	15	Reel S/Reel T		A-4	T
	16	Base Assembly P4	Chassis Embossing	A-5	T
	17	Opener Lid	Chassis Embossing	A-5	T
17	18	Arm Assembly Pinch	Shaft	A-5	T
17	19	Lever T/Up / Arm T/Up	1 Hook	A-5	T
17,18	20	Belt Capstan/Motor Capstan	3 Screw	A-6	B
	21	Lever F/R	Locking Tab	A-6	B
20, 21	22	Clutch Assembly D35	Washer	A-6	B
	23	Brake Assembly Capstan	Locking Tab	A-6	B
	24	Gear Drive/Gear Cam	Washer/Hook	A-7	B
	25	Gear Sector	1 Hook	A-7	B
20,21,23, 24,25	26	Plate Slider	Shaft Guide	A-7	B
20,21,23, 24,25,26	27	Lever Tension	1 Hook	A-7	B
2,3,14,20, 21,25,23, 24,26	28	Lever Spring	Locking Tab	A7	B
25	29	Gear Assembly P2/Gear Assembly P3	Boss	A-8	B
2,3,14,25, 29	30	Base Assembly P2/Base Assembly P3	Chassis Slot	A-8	B
2,3,14,25, 29	31	Base Loading	1 Screw	A-9	T
2,3,14	32	Base Tension	Chassis Embossing	A-9	B
2,3,20,21, 22	33	Arm Assembly Idler	Locking Tab	A-9	T

T:Top, B:Bottom

DECK MECHANISM DISASSEMBLY

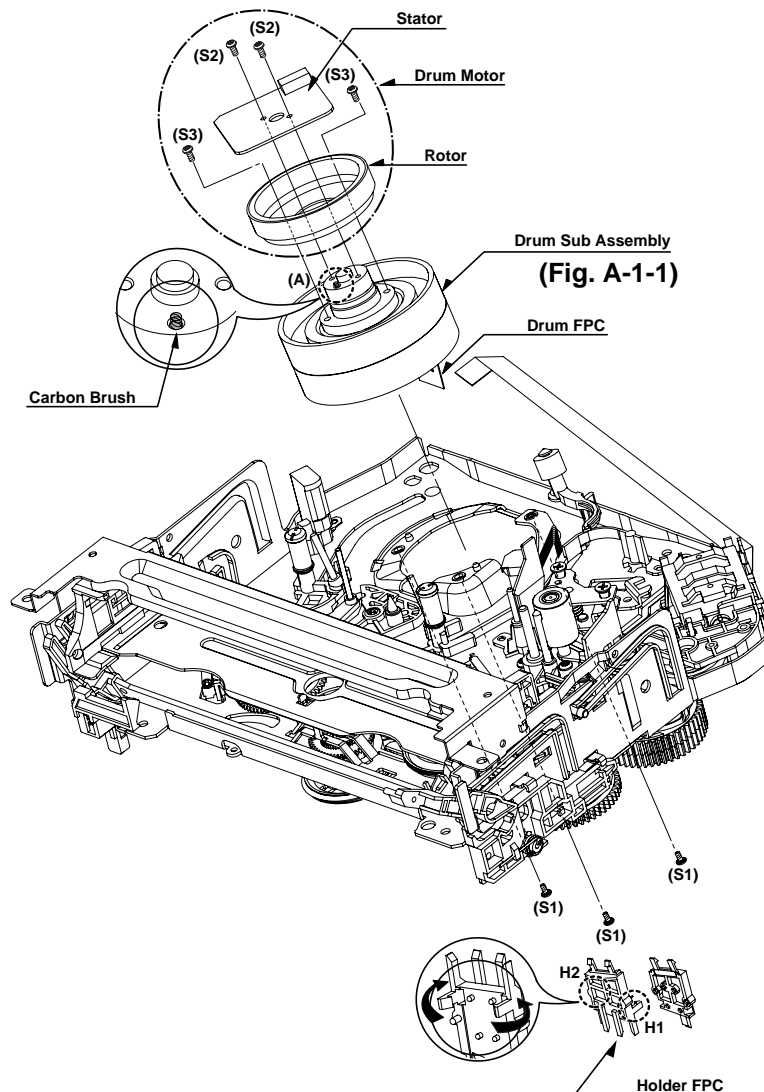


Fig. A-1

1. Drum Assembly (Fig. A-1-1)

- 1) Unplug the Drum FPC Connector.
- 2) Remove three Screws(S1) on bottom side and separate the Drum assembly.
- 3) Unhook (H1), (H2) and separate the Holder FPC and Cap FPC.

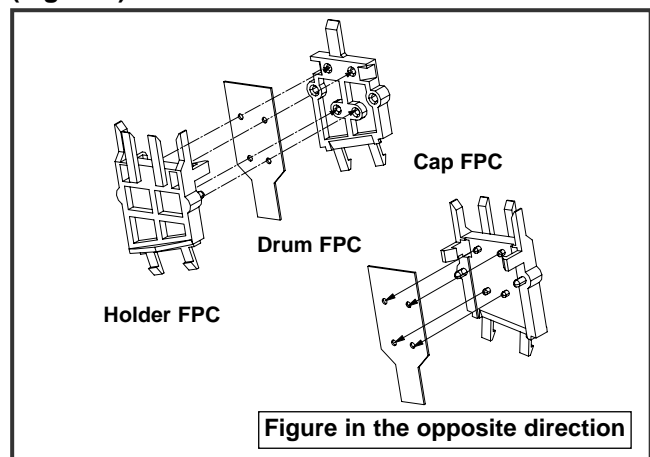
1-1. Drum Motor

- 1) Remove two Screws(S2) and disassemble the Stator of the Drum Motor.
- 2) Remove two Screws(S3) and separate the Rotor of the Drum Motor from the Drum Sub assembly.

NOTE

When reassembling, confirm (A) portion of the Drum Sub assembly whether the Carbon Brush is in there or not.

(Fig. B-1)



DECK MECHANISM DISASSEMBLY

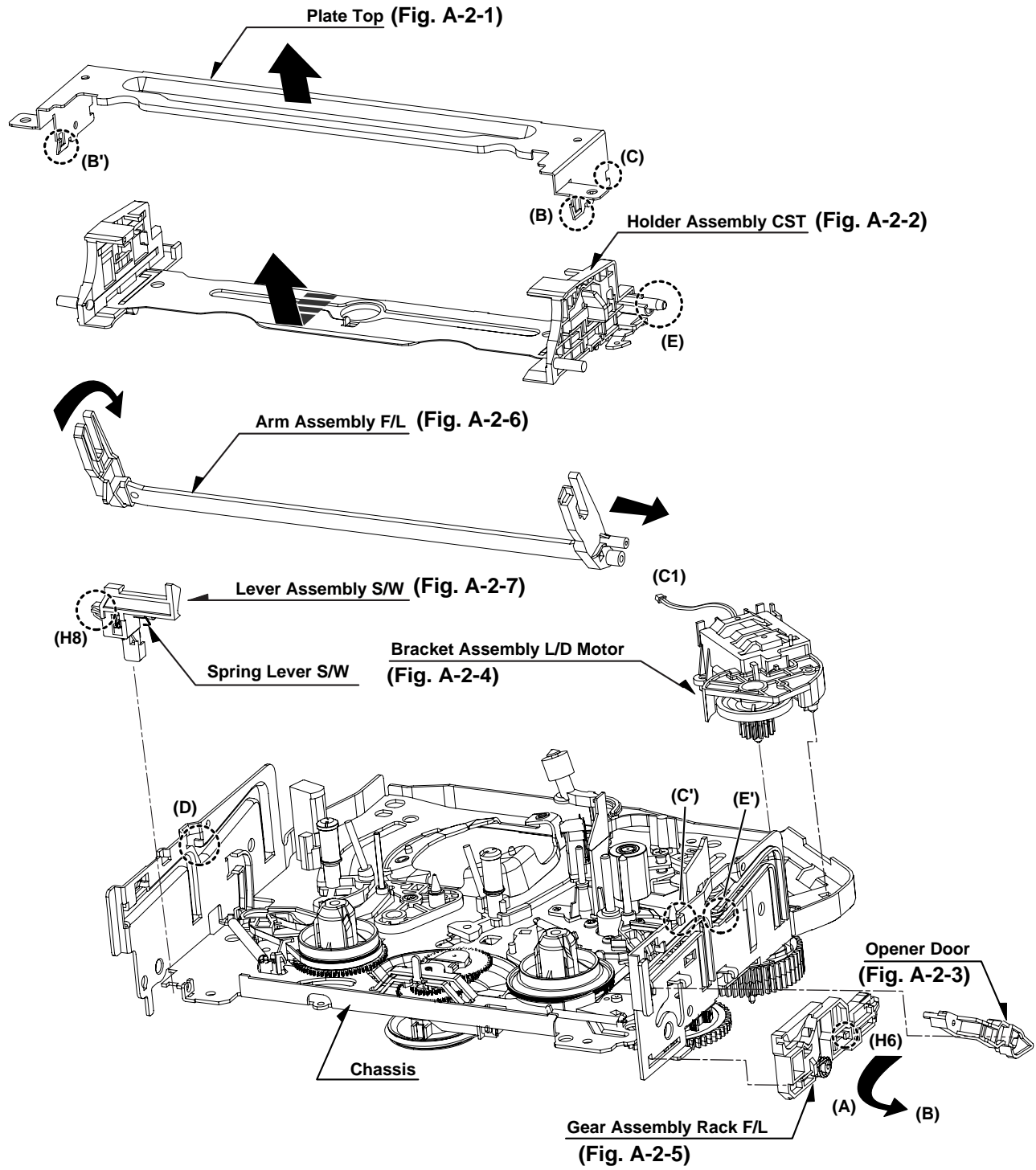


Fig. A-2

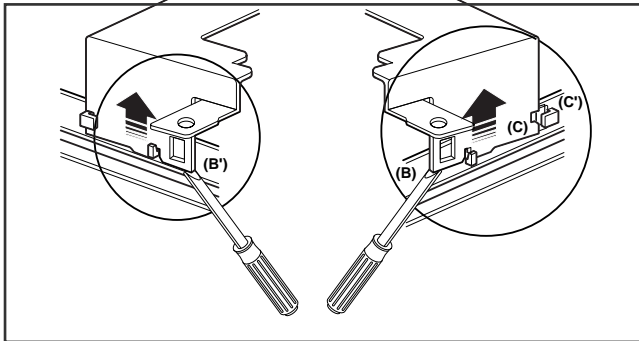
DECK MECHANISM DISASSEMBLY

2. Plate Top (Fig. A-2-1)

- 1) Pull the (B) portion of the Plate Top back in direction of arrow and separate the right side of it.
- 2) pull the (B') portion of the Plate Top back in direction of arrow and separate the left side of it.
(Used tools : (-) type driver, anything tool with sharp point or flat point.)

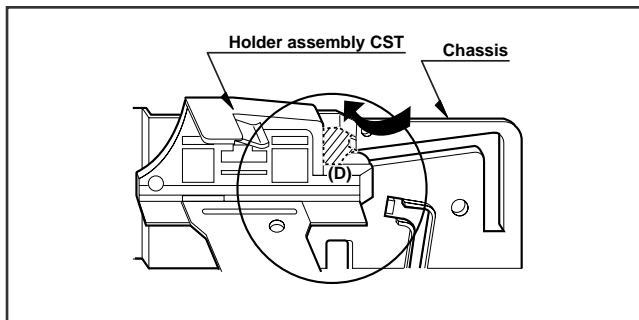
NOTE

- (1) When reassembling, push the Plate Top after alignment the two position(C), (C') as below Fig.



3. Holder Assembly CST (Fig.A-2-2)

- 1) Move the Holder Assembly CST in direction of arrow and separate the left side of it first through the (D) position of the Chassis.



- 2) Disassemble the right side of the Holder Assembly CST from each guided hole of the Chassis.

NOTE

When reassembling, insert the (E) part of the Holder Assembly CST in the (E') hole of the Chassis first and assemble the left side of it.

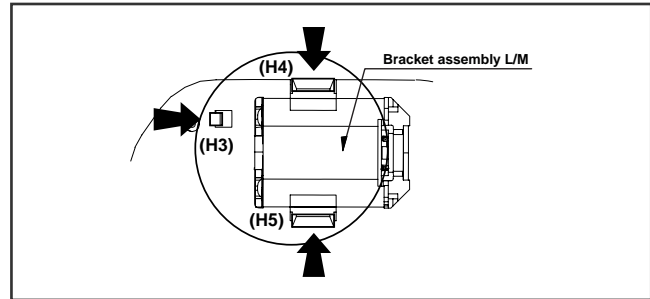
4. Opener Door (Figure. A-2-3)

- 1) Turn the Opener Door clockwise and remove it through the guide hole of the Chassis.

5. Bracket Assembly L/D Motor (Fig. A-2-4)

- 1) Unplug the Connector(C1).

- 2) Unhook three Hooks(H3, H4, H5) on bottom side of the Chassis, lift up the Bracket Assembly L/M and disassemble the Bracket Assembly L/D Motor.

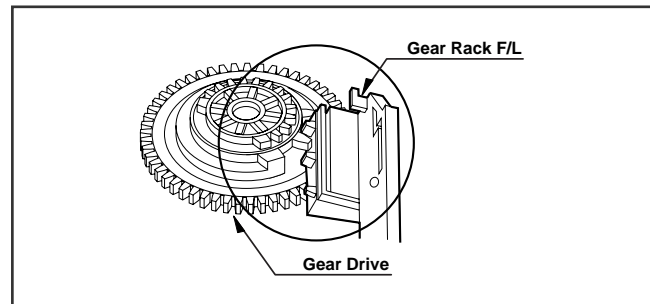


6. Gear Assembly Rack F/L (Fig. A-2-5)

- 1) Move the Gear Assembly Rack F/L in direction of arrow(A) and unhook the Hook(H6) pulling back in front.
- 2) Separate the Gear Rack F/L in direction of arrow(B).

NOTE

When reassembling, align the gear part of the Gear Assembly Rack F/L with the Gear Drive as below Fig.

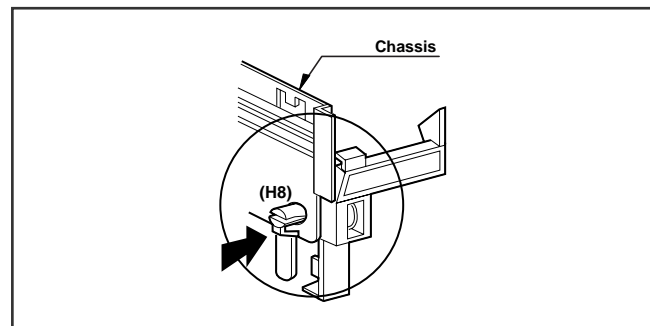


7. Arm Assembly F/L (Fig. A-2-6)

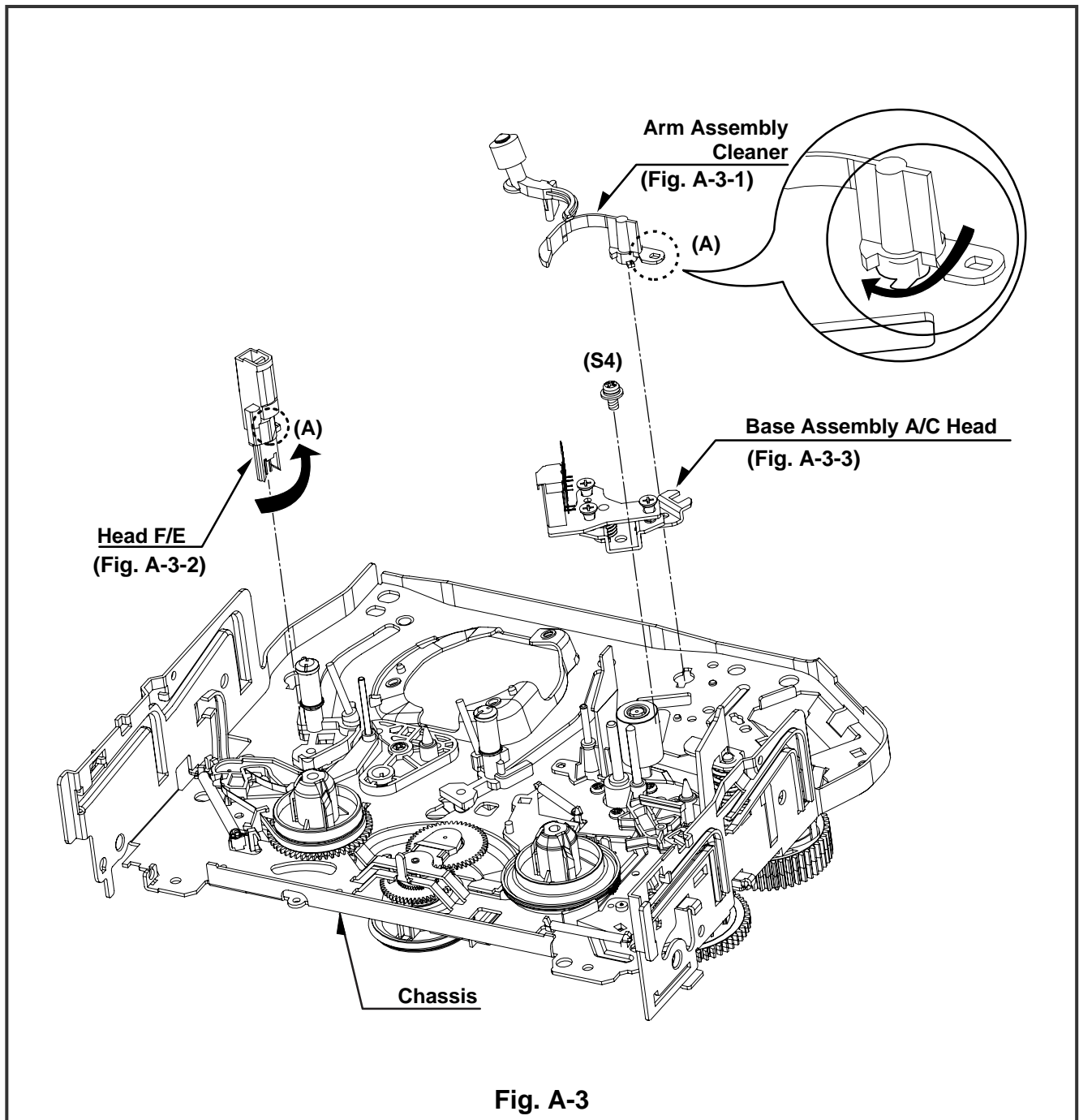
- 1) Move the Arm Assembly F/L in direction of arrow and separate the left side of it first.
- 2) Disassemble the Arm Assembly F/L from each guided hole of the Chassis.

8. Lever Assembly S/W(Fig. A-2-7)

- 1) Unhook the Hook(H8) in the left side of the Chassis and remove the Lever Assembly S/W.



DECK MECHANISM DISASSEMBLY



9. Arm Assembly Cleaner (Fig. A-3-1)

- 1) Breakaway the (A) portion as Fig. A-3-1 from the embossing of the Chassis, turn the Arm assembly Cleaner to clockwise direction and lift it up.

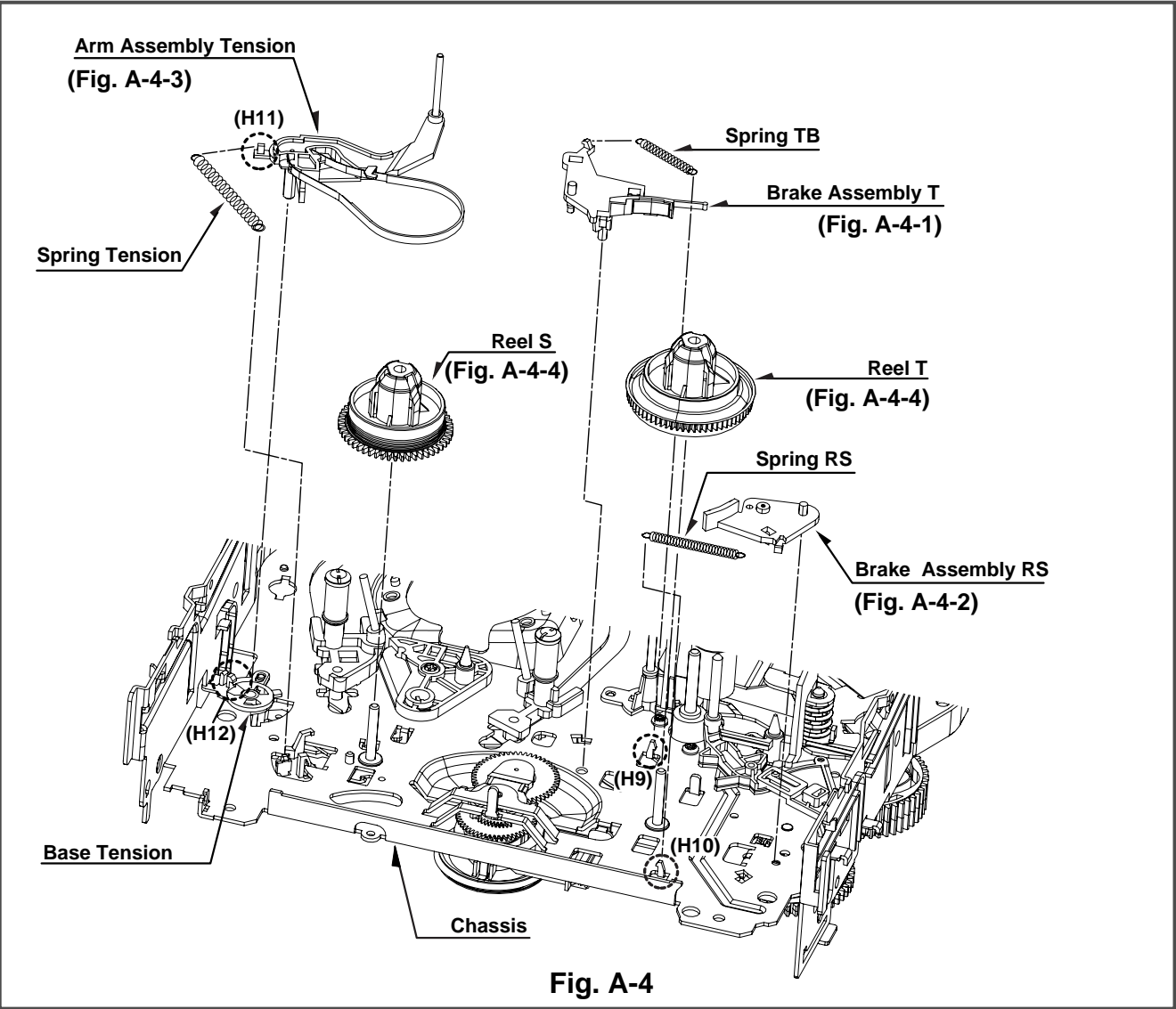
10. Head F/E (Fig. A-3-2)

- 1) Breakaway the (A) portion of the Head F/E from the embossing of the Chassis, turn it to counterclockwise direction and lift it up.

11. Base Assembly A/C Head (Fig. A-3-3)

- 1) Remove the Screw(S4) and lift the Base Assembly A/C Head up.

DECK MECHANISM DISASSEMBLY



12. Brake Assembly T (Fig. A-4-1)

- 1) Unhook the Spring TB from the Hook(H9) of the Chassis.
- 2) Lift the Brake Assembly T up.

13. Brake Assembly RS (Fig. A-4-2)




- 1) Unhook the Spring RS from the Hook(H10) of the Chassis.
- 2) Lift the Brake Assembly T up.

14. Arm Assembly Tension (Fig. A-4-3)

- 1) Unhook the Spring Tension from the Hook(H11) of the Arm Assembly Tension.
- 2) Unhook the Hook(H12) of the Base Tension and lift the Arm Assembly Tension up.

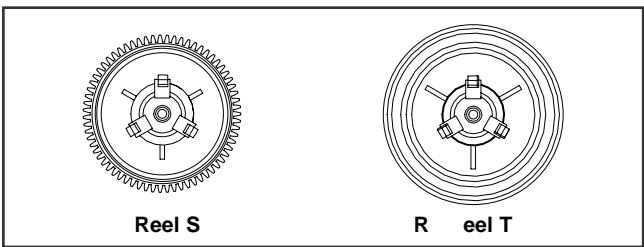
NOTE

Difference for Springs

	Spring TB	
	Spring RS	Color (Black)
	Spring Tension	

15. Reel S / Reel T (Fig. A-4-4)

- 1) Difference for Reel S / Reel T



DECK MECHANISM DISASSEMBLY

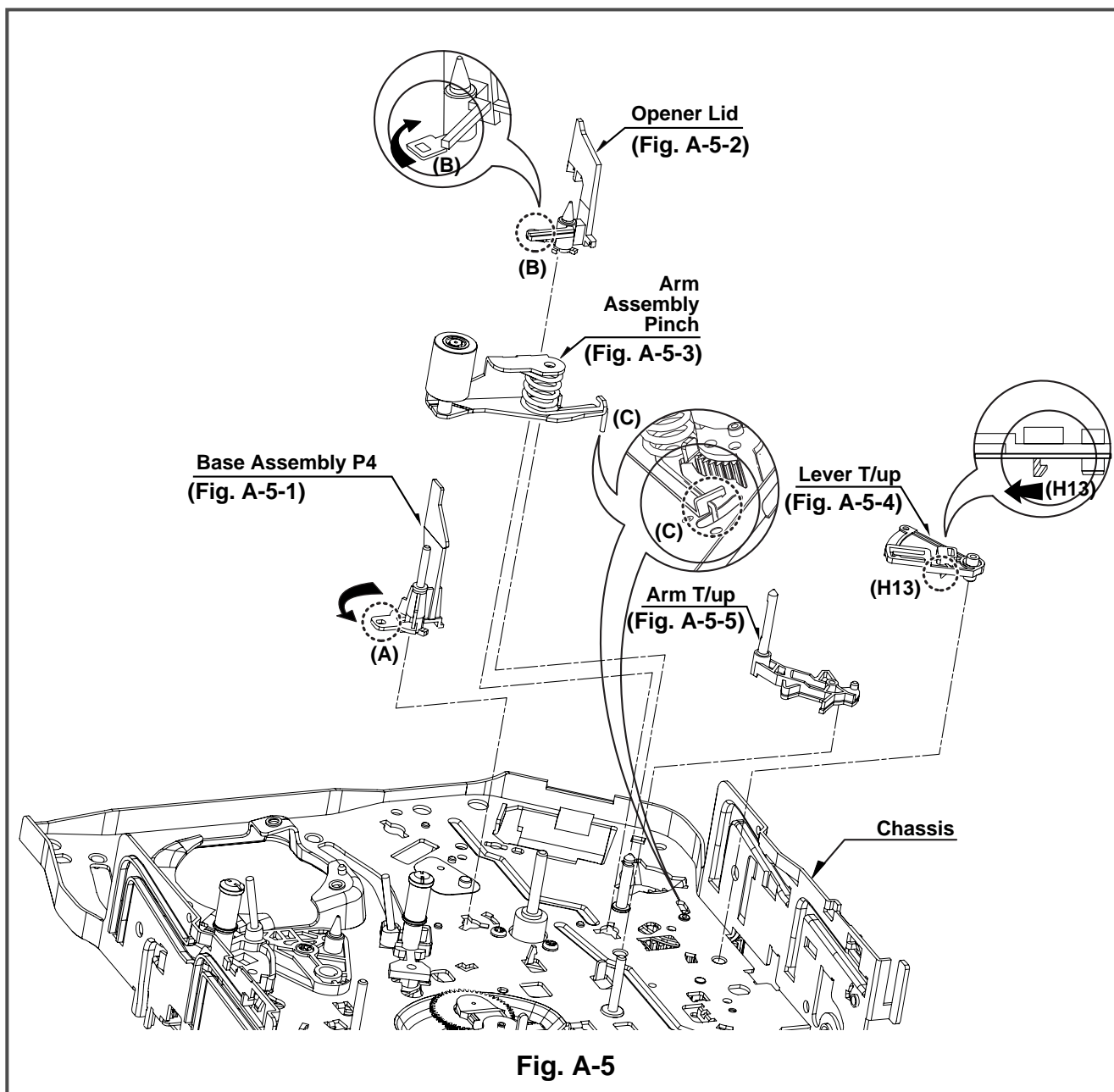


Fig. A-5

16. Base Assembly P4 (Fig. A-5-1)

- 1) Breakaway the (A) portion of the Base Assembly P4 from the embossing of the Chassis.
- 2) Turn the Base Assembly P4 to counterclockwise direction and lift it up.

17. Opener Lid (Fig. A-5-2)

- 1) Breakaway the (B) portion of the Opener Lid from the embossing of the Chassis.
- 2) Turn the Opener Lid to clockwise direction and lift it up.

18. Arm Assembly Pinch (Fig. A-5-3)

- 1) Lift the Arm Assembly Pinch up.

NOTE

When reassembling, confirm the (C) portion of the Arm Assembly Pinch is inserted to the Chassis hole correctly as Fig.

19. Lever T/up (Fig. A-5-4)/ Arm T/up (Fig. A-5-5)

- 1) Unhook the Hook(H13) of the bottom Chassis and lift the Lever T/up up.
- 2) Lift the Arm T/up up.

DECK MECHANISM DISASSEMBLY

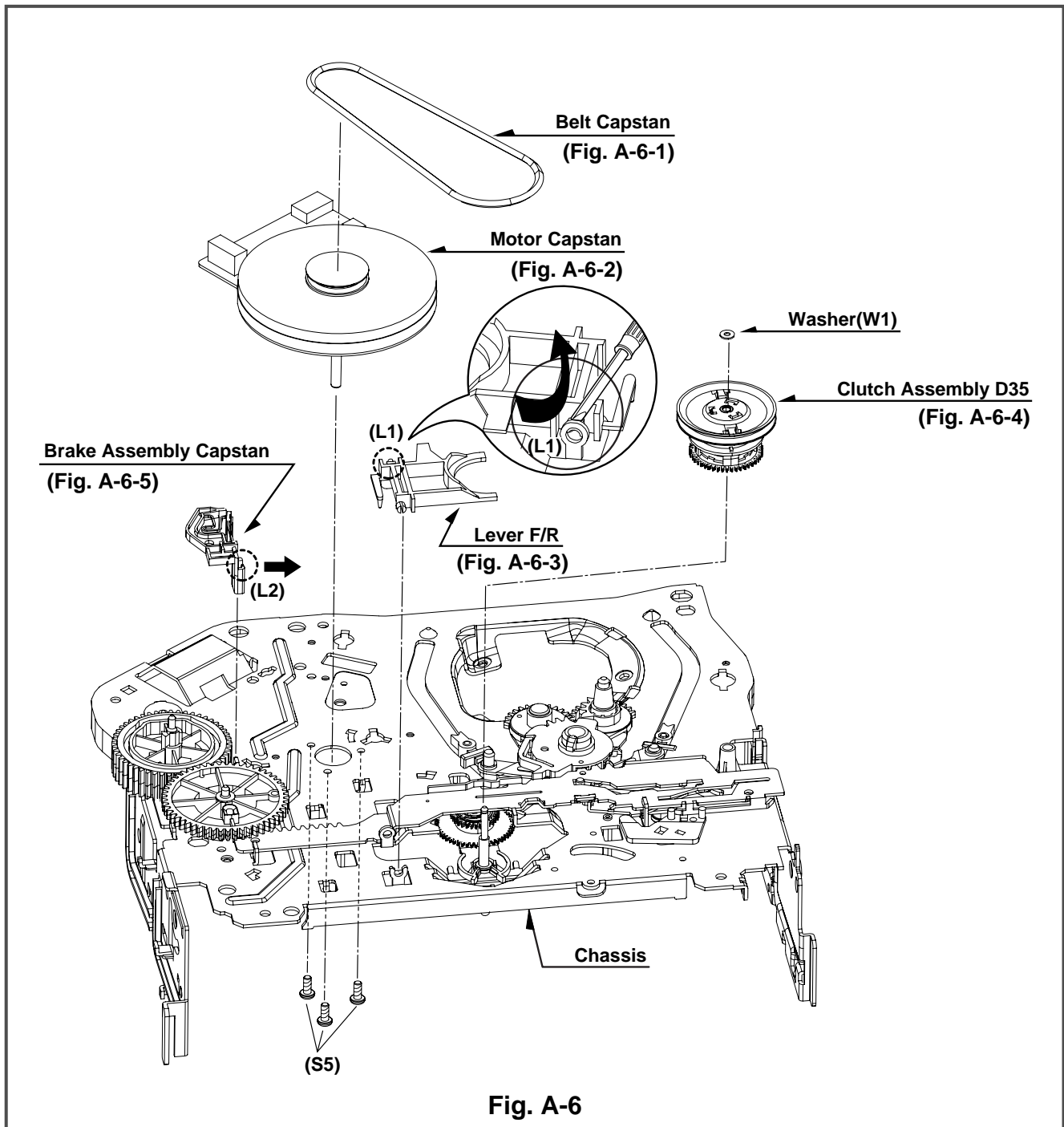


Fig. A-6

20. Belt Capstan (Fig. A-6-1)/ Motor Capstan (Fig. A-6-2)

- 1) Remove the Belt Capstan.
- 2) Remove the three Screws(S5) on bottom Chassis and lift the Motor Capstan up.

21. Lever F/R (Fig. A-6-3)

- 1) Unlock the Locking Tab(L1) as Fig. A-6-3 and lift the Lever F/R up.

22. Clutch Assembly D35 (Fig. A-6-4)

- 1) Remove the Washer(W1) and lift the Clutch Assembly D35 up.

23. Brake Assembly Capstan (Fig. A-6-5)

- 1) Pull the Locking Tab(L2) back in direction of arrow and lift it up.

DECK MECHANISM DISASSEMBLY

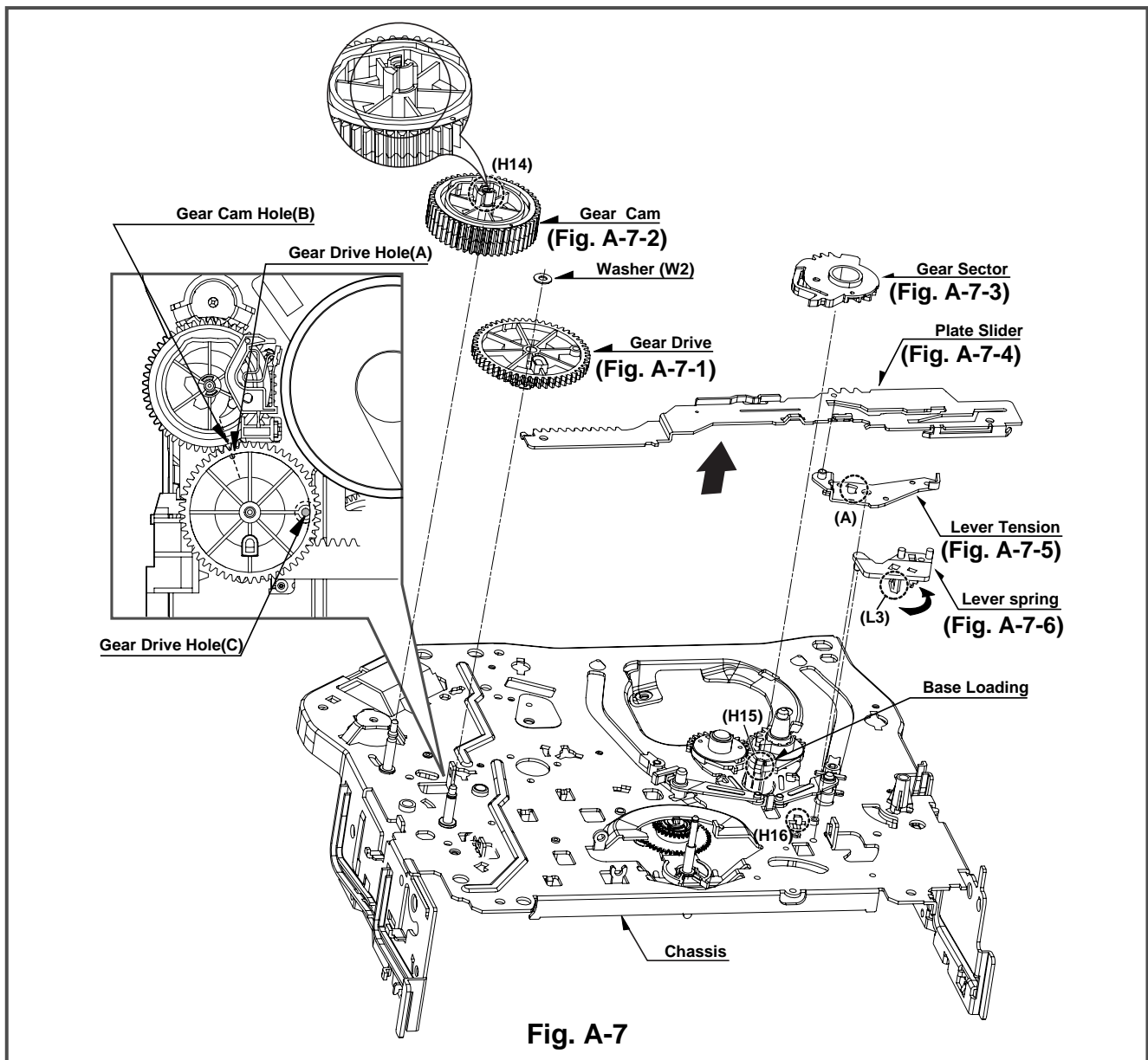


Fig. A-7

24. Gear Drive (Fig. A-7-1)/ Gear Cam (Fig. A-7-2)

- 1) Remove the Washer(W2) and lift the Gear Drive up.
- 2) Unhook the Hook(H14) of the Gear Cam and lift the Gear Cam up.

NOTE

When reassembling, align the Gear Drive Hole(A) and the Gear Cam Hole(B) in a straight line after the Gear Drive Hole(C) is aligned with the Chassis Hole as Fig.

25. Gear Sector (Fig. A-7-3)

- 1) Unhook the Hook(H15) of the Base Loading on bottom Chassis and lift the Gear Sector up.

26. Plate Slider (Fig. A-7-4)

- 1) Just lift the Plate Slider up.

27. Lever Tension (Fig. A-7-5)

- 1) Unhook the (A) portion of the Lever Tension from the Hook(H16) of the Chassis.
- 2) Turn the Lever Tension to counterclockwise direction and lift it up.

28. Lever Spring (Fig. A-7-6)

- 1) Unlock the Locking Tab(L3) of the bottom Chassis and lift the Lever Spring up.

DECK MECHANISM DISASSEMBLY

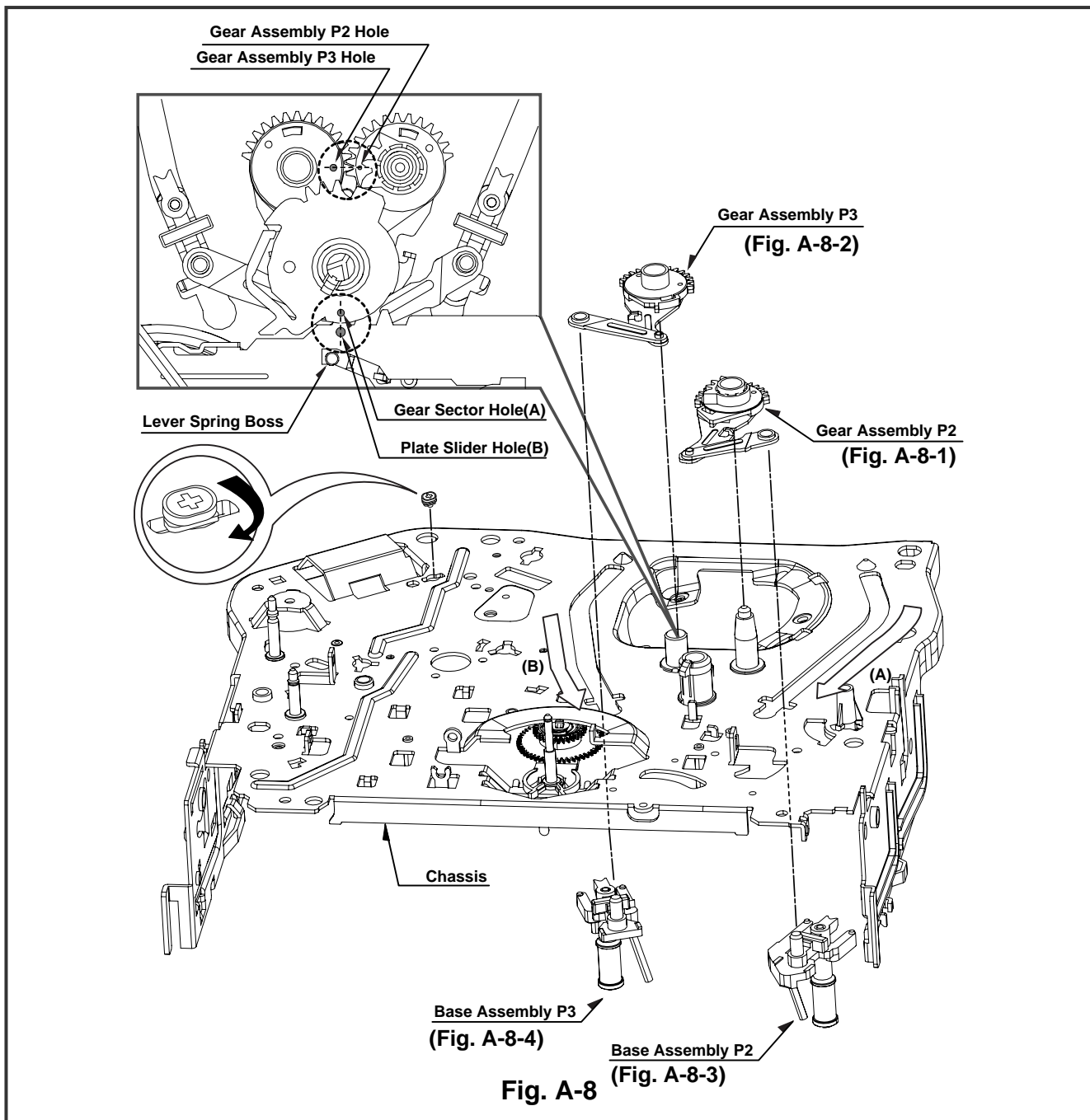


Fig. A-8

29. Gear Assembly P2 (Fig. A-8-1)/ Gear Assembly P3 (Fig. A-8-2)

- 1) Just lift the Gear Assembly P2 up.
- 2) Just lift the Gear Assembly P3 up.

NOTE

When reassembling, align the two holes of the Gear Assembly P2 and P3 in a straight line after confirmation whether the Gear Sector Hole(A) and the Plate Slider Hole(B) are aligned or not as Fig.

30. Base Assembly P2 (Fig. A-8-3)/ Base Assembly P3 (Fig. A-8-4)

- 1) Move the Base Assembly P2 in direction of arrow(A) along the guide hole of the Chassis and disassemble it on bottom side.
- 2) Move the Base Assembly P3 in direction of arrow(B) along the guide hole of the Chassis and disassemble it on bottom side.

DECK MECHANISM DISASSEMBLY

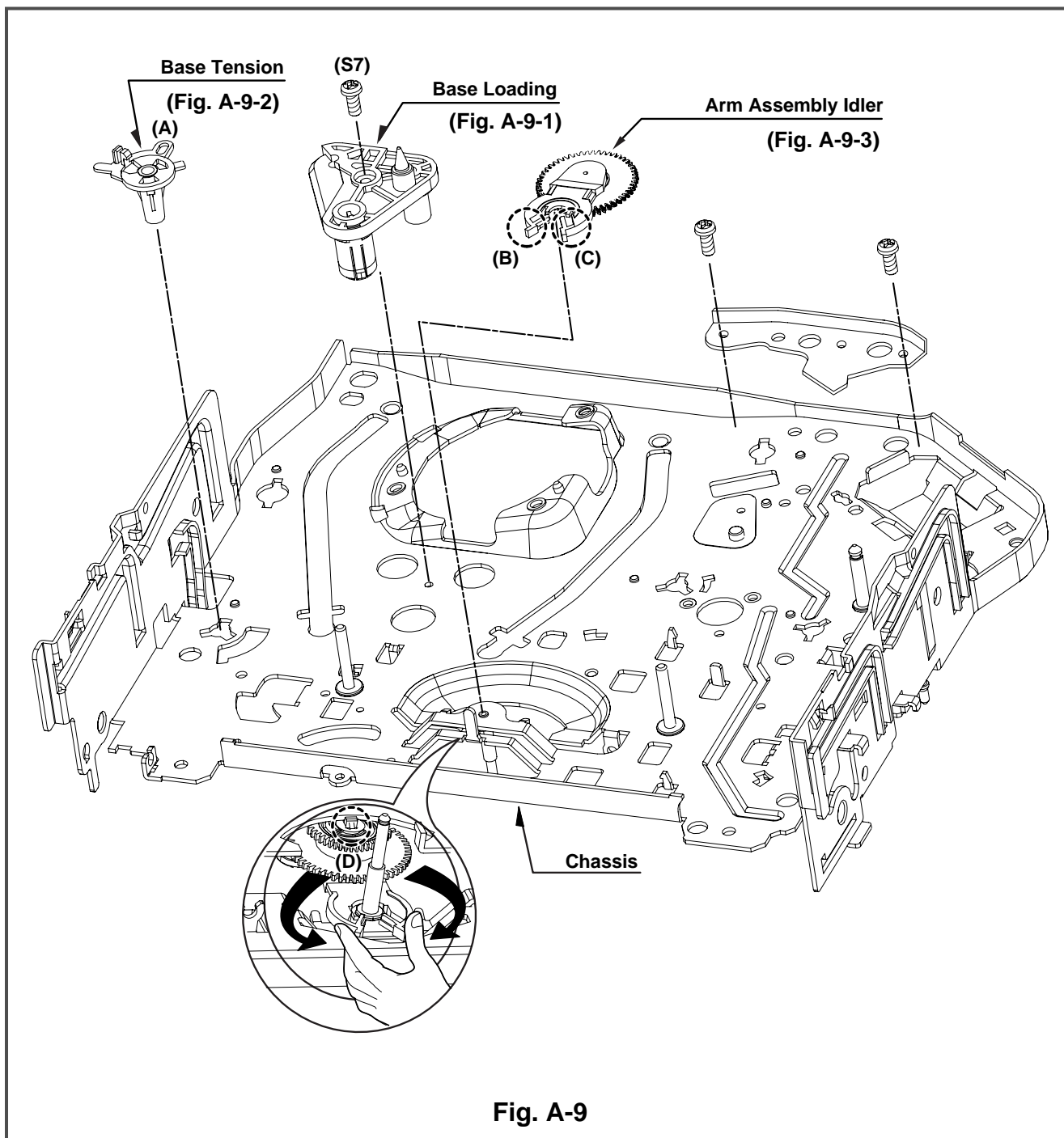


Fig. A-9

31. Base Loading (Fig. A-9-1)

- 1) Remove the Screw(S7).
- 2) Lift the Base Loading up.

32. Base Tension (Fig. A-9-2)

- 1) Breakaway the (A) portion of the Base Tension from the embossing of the Chassis.
- 2) Turn the Base Tension to counterclockwise direction and lift it up.

33. Arm Assembly Idler (Fig. A-9-3)

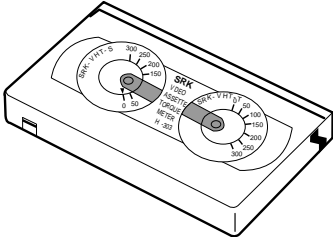
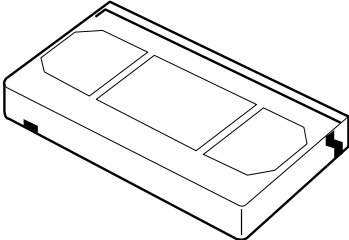
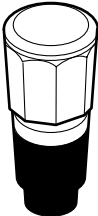
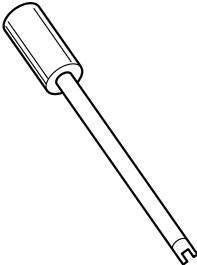
- 1) Make narrower the two parts, (B) and (C), as Fig. A-9-3.
- 2) Lift the Arm assembly Idler up.

NOTE

When disassembling, be careful not to be caught the (D) part by the Chassis as Fig.

DECK MECHANISM ADJUSTMENT

• Tools and Fixfures for Service

<div>1. Cassette Torque Meter PUJ42881</div> <div></div>	<div>2. Alignment Tape NTSC: MHP PAL: MHPE</div> <div></div>	<div>3. Torque Gauge PUJ48075-2</div> <div></div>
<div>5. Post Height Adjusting Driver (Roller driver) PTU94002</div> <div></div>		

DECK MECHANISM ADJUSTMENT

1. Mechanism Alignment Position Check

Purpose: To determine if the Mechanism is in the correct position, when a Tape is ejected.

Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Check Point
• Blank tape	• Eject Mode (with Cassette ejected)	• Mechanism and Mode Switch Position

- 1) Turn the Power S/W on and eject the Cassette by pressing the Eject Button.
- 2) Remove the Top Cover and Plate Assembly Top, visually check if the Gear Cam Hole is aligned with the Chassis Hole as below Fig. C-2.
- 3) IF not, rotate the Shaft of the Loading Motor to either clockwise or counterclockwise until the alignment is as below Fig. C-2.
- 4) Remove the Screw which fixes the Deck Mechanism and Main Frame and confirm if the Gear Cam is aligned with the Gear Drive as below Fig. C-1(A).
- 5) Confirm if the Mode S/W on the Main P.C.Board is aligned as below Fig. C-1(B).
- 6) Remount the Deck Mechanism on the Main P.C.Board and check each operation.

CHECK DIAGRAM

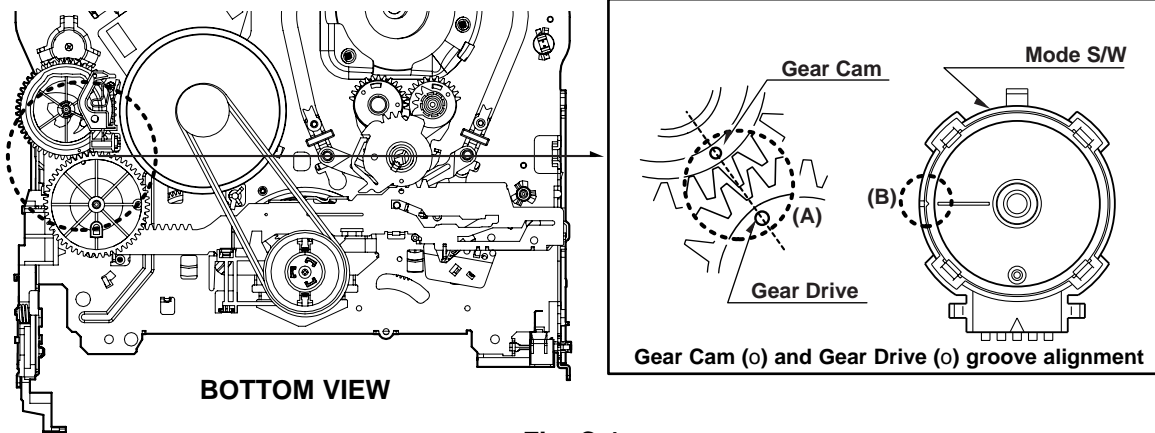


Fig. C-1

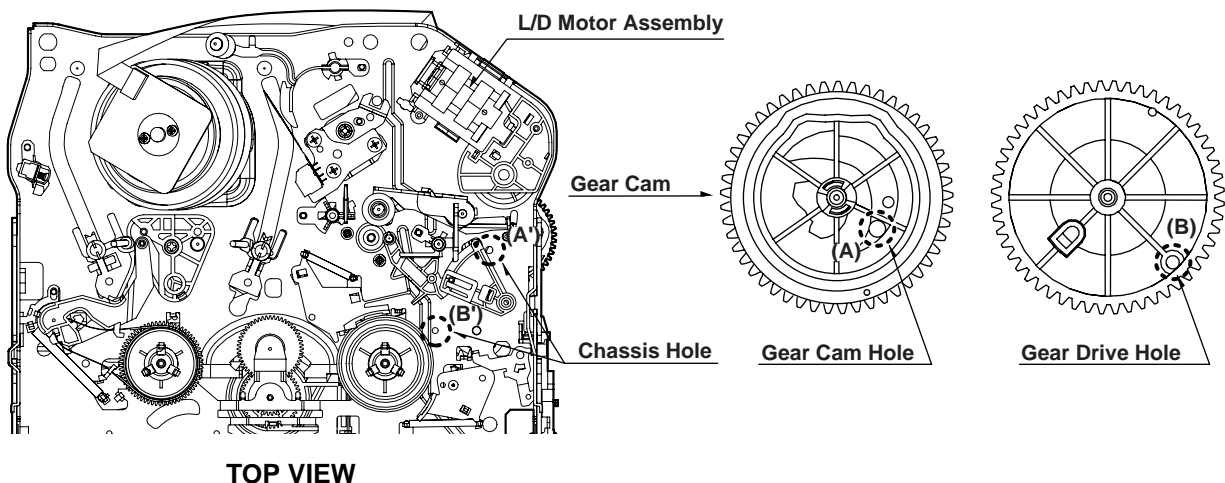


Fig. C-2

DECK MECHANISM ADJUSTMENT

2. Preparation for Adjustment (To set the Deck Mechanism of the loading state without inserting a cassette tape).

- 1) Unplug the power cord from the AC outlet.
- 2) Disassemble the Top Cover and Plate Assembly Top.
- 3) Plug the power cord into the AC outlet.
- 4) Turn the power S/W on and push the Lever Stopper of the Holder Assembly CST to the back for loading the

cassette without tape.
Cover the holes of the End Sensors at the both sides of the Chassis to prevent a light leak.
Then the Deck Mechanism drives to the Stop Mode.
In this case, the Deck Mechanism can accept inputs of each mode, however the Rewind and Review operation can not be performed for more than a few seconds because the Take-up Reel Table is in the Stop State and can not be detected the Reel Pulses.

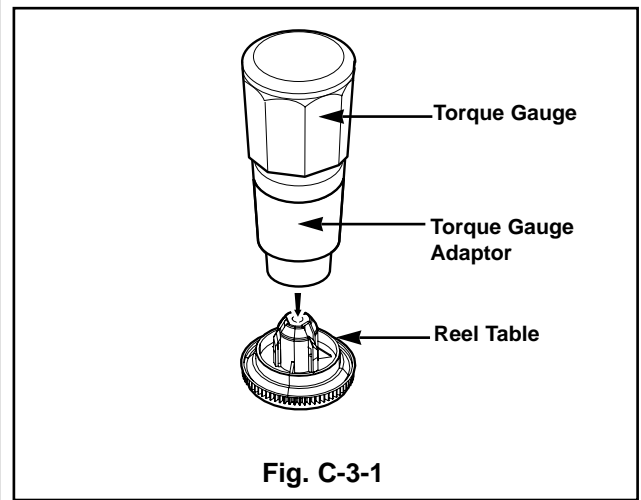
3. Checking Torque

Purpose: To insure smooth transport of the tape during each mode of operation.
If the tape transport is abnormal, then check the torque as indicated by the chart below.

Test Equipment/ Fixture		Test Conditions (Mechanism Condition)	Checking Method	
<ul style="list-style-type: none">• Torque Gauge(600g/cm ATG)• Torque Gauge Adaptor• Cassette Torque Meter		• Play (FF) or Review (REW) Mode	<ul style="list-style-type: none">• Perform each Deck Mechanism mode without inserting a cassette tape(Refer to above No.2 Preparation for Adjustment).• Read the measurement of the Take-up or Supply Reels on the Cassette Torque Meter(Fig. C-3-2).• Attach the Torque Gauge Adaptor to the Torque Gauge and then read the value of it(Fig. C-3-1).	
Item	Mode	Test Equipment	Measurement Reel	Measurement Values
Fast Forward Torque	Fast Forward	Cassette Torque Gauge	Take-Up Reel	More than 400g/cm
Rewind Torque	Rewind	Cassette Torque Gauge	Supply Reel	More than 400g/cm
Play Take-Up Torque	Play	Cassette Torque Meter	Take-Up Reel	40~100g/cm
Review Torque	Review	Cassette Torque Meter	Supply Reel	120~210g/cm

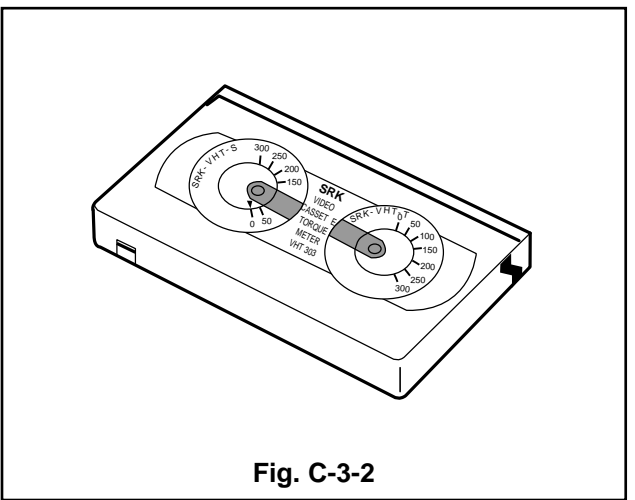
NOTE:
The values are measured by using a Torque Gauge and Torque Gauge Adaptor with the Torque Gauge affixed.

• Torque Gauge (600g.cm ATG)



NOTE:
The torque reading to measure occurs when the tape abruptly changes direction from Fast Forward to Rewind Mode, when quick braking is applied to both Reels.

• Cassette Torque Meter



DECK MECHANISM ADJUSTMENT

4. Guide Roller Height Adjustment

Purpose: To regulate the height of the tape so that the bottom of the tape runs along the tape guide line on the Lower Drum.

4-1. Preliminary Adjustment

Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Adjustment Point
• Post Height Adjusting Driver	• Play or Review Mode	• Guide Roller Height Adjustment screws on the Supply and Take-Up Guide Rollers.

Adjustment Procedure

- 1) Confirm if the tape runs along the tape guide line of the Lower Drum.
- 2) If the tape runs the bottom of the guide line, turn the Guide Roller Height Adjustment Screw to clockwise direction.
- 3) If it runs the top, turn to counterclockwise direction.
- 4) Adjust the height of the Guide Roller to be guided to the guide line of the Lower Drum from the starting and ending point of the Drum.

ADJUSTMENT DIAGRAM

Fig. C-4-1

4-2. Precise Adjustment

Test Equipment/Fixture	Test Equipment Connection Points	Test Conditions VCR(VCP) State	Adjustment Point
• Oscilloscope • Alignment Tape • Post Height Adjusting Driver	• CH-1:PB RF Envelope • CH-2:NTSC: SW 30Hz PAL: SW 25Hz • Head Switching Output Point • RF Envelope Output Point	• Play an Alignment Tape	• Guide Roller Height Adjustment Screws

Adjustment Procedure

- 1) Play an Alignment Tape after connecting the probe of the Oscilloscope to the RF Envelope Output Test Point and Head Switching Output Test Point.
- 2) Tracking Control(in PB Mode) : Center Position(When this adjustment is performed after the Drum Assembly has been replaced, set the Tracking Control so that the RF Output is Maximum).
- 3) Height Adjustment Screw : Flatten the RF waveform. (Fig. C-4-2)
- 4) Turn(Move) the Tracking Control(in PB Mode) clockwise and counterclockwise.(Fig. C-4-3)
- 5) Check that any drop of RF Output is uniform at the start and end of the waveform.

NOTE

If the adjustment is excessive or insufficient the tape will jam or fold.

Waveform Diagrams

P2 POST ADJUSTMENT

P3 POST ADJUSTMENT

Turn the Roller Guide Height Adjustment Screw slightly to flatten the waveform.

Fig. C-4-2

Tracking Control at center

Turn(Move) the Tracking Control to both directions

Fig. C-4-3

Connection Diagram

OSCILLOSCOPE

RF ENVELOPE OUTPUT TEST POINT

HEAD SWITCHING OUTPUT TEST POINT

DECK MECHANISM ADJUSTMENT

5. Audio/Control (A/C) Head Adjustment

Purpose: To insure that the tape passes accurately over the Audio and Control Tracks in exact alignment of the both Record and Playback Modes.

5-1. Preliminary Adjustment (Height and Tilt Adjustment)

Perform the Preliminary Adjustment, when there is no Audio Output Signal with the Alignment Tape.

Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Adjustment Point
<ul style="list-style-type: none">• Blank Tape• Screw Driver(+) Type 5mm	<ul style="list-style-type: none">• Play the blank tape	<ul style="list-style-type: none">• Tilt Adjustment Screw(C)• Height Adjustment Screw(B)• Azimuth Adjustment Screw(A)

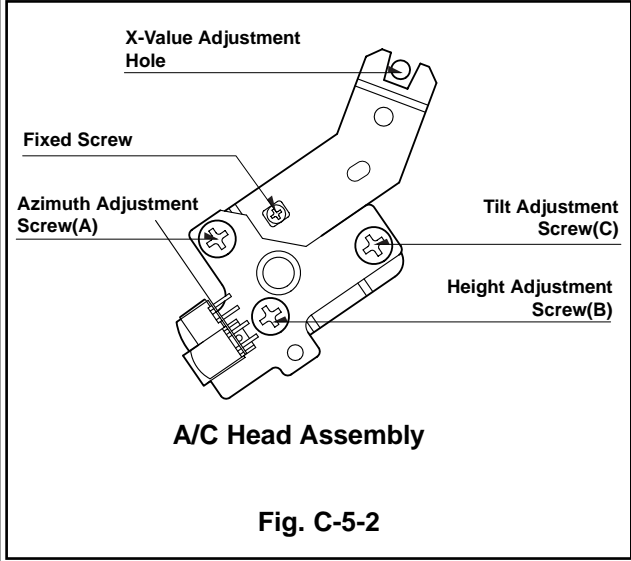
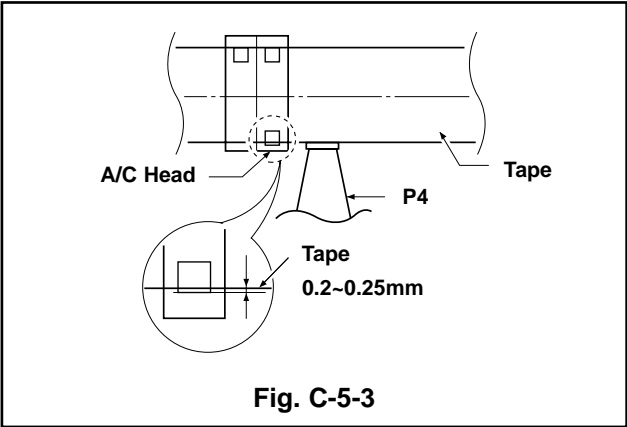
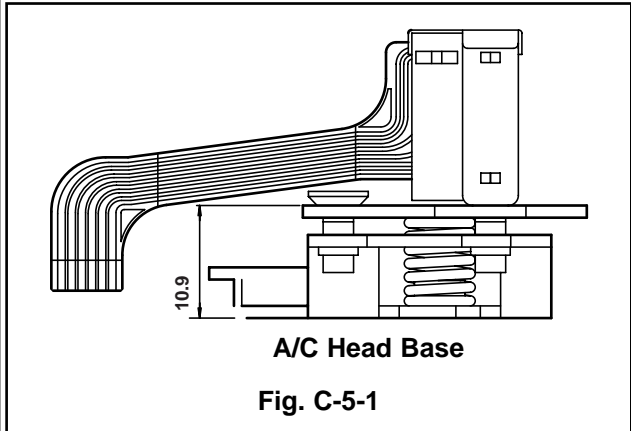
Adjustment Procedure/Diagrams

- 1) Initially adjust the Base Assembly A/C Head as shown Fig. C-5-1 by using the Height Adjustment Screw(B).

2) Play a blank tape and observe if the tape passes accurately over the A/C Head without tape curling or folding.

3) If folding or curling is occurred then adjust the Tilt Adjustment Screw(C) while the tape is running to resemble Fig. C-5-3.
- 4) Reconfirm the tape path after Playback about 4~5 seconds.

NOTE
Ideal A/C head height occurs when the tape runs between 0.2~0.25mm above the bottom edge of the A/C Head core.



DECK MECHANISM ADJUSTMENT

5-2. Confirm that the tape passes smoothly between the Take-up Guide and Pinch Roller(using a mirror or the naked eye).

1) After completing Step 5-1.(Preliminary Adjustment), check that the tape passes around the Take-up Guide and Pinch Roller without folding or curling at the top or bottom.

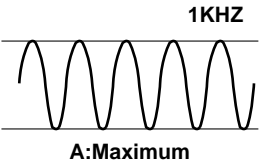
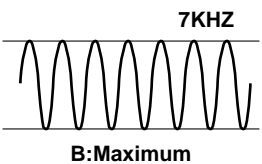
(1) If folding or curling is observed at the bottom of the Take-up Guide then slowly turn the Tilt Adjustment Screw(C) in the clockwise direction.

(2) If folding or curling is observed at the top of it then slowly turn the Tilt Adjustment Screw(C) in the counterclockwise direction.

NOTE:

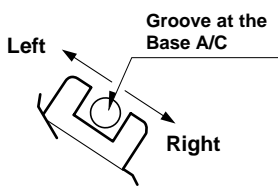
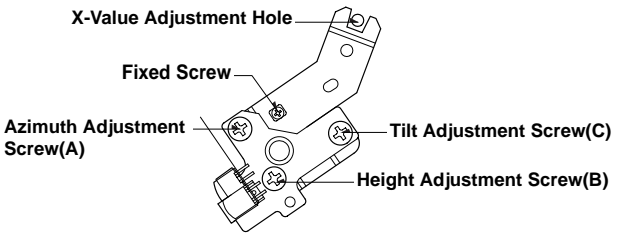
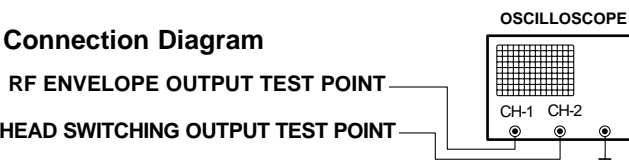
Check the RF envelope after adjusting the A/C Head, if the RF waveform differs from Fig. C-5-4, performs Precise Adjustment to flat the RF waveform.

5-3. Precise Adjustment (Azimuth adjustment)

Test Equipment/ Fixture	Connection Point	Test Conditions (Mechanism Condition)	Adjustment Point
<ul style="list-style-type: none"> Oscilloscope Alignment Tape(SP) Screw Driver(+) Type 5mm 	<ul style="list-style-type: none"> Audio output jack 	<ul style="list-style-type: none"> Play an Alignment Tape 1KHz, 7KHz Sections 	<ul style="list-style-type: none"> Azimuth Adjustment Screw(A) Height Adjustment Screw(B)
Adjustment Procedure <ol style="list-style-type: none"> 1) Connect the probe of the oscilloscope to Audio Output Jack. 2) Alternately adjust the Azimuth Adjustment Screw(A) and the Tilt Adjustment Screw(C) for maximum output of the 1KHz and 7KHz segments, while maintaining the flattest envelope differential between the two frequencies. 			
			
Fig. C-5-4			

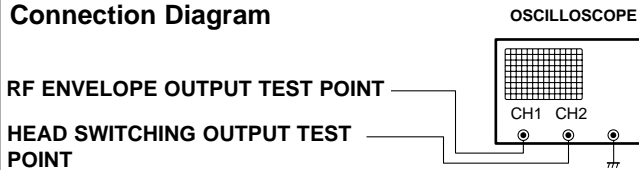
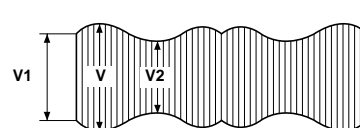
6. X-Value Adjustment

Purpose: To obtain compatibility with the other VCR(VCP) Models.

Test Equipment/ Fixture	Connection Point	Test Conditions (Mechanism Condition)	Adjustment Point
<ul style="list-style-type: none"> Oscilloscope Alignment Tape(SP only) Screw Driver(+) Type 5mm 	<ul style="list-style-type: none"> CH-1: PB RF Envelope CH-2: NTSC: SW 30Hz PAL: SW 25Hz Head Switching Output Test Point RF Envelope Output Test Point 	<ul style="list-style-type: none"> Play an Alignment Tape 	
Adjustment Procedure <ol style="list-style-type: none"> 1) Release the Automatic Tracking to run long enough for tracking to complete it's cycle. 2) Loosen the Fixed Mounting Screw and move the Base Assembly A/C Head in the direction as shown in the diagram to find the center of the peak that allows for the maximum waveform envelope. This method should allow the 31μm Head to be centrally located over the 58μm tape track. 3) Tighten the Base Assembly A/C Head mounting Screw. 		Adjustment Diagram 	
		Connection Diagram 	

DECK MECHANISM ADJUSTMENT

7. Adjustment after Replacing Drum Assembly (Video Heads)

Purpose: To correct for shift in the Roller Guide and X value after replacing the Drum.			
Test Equipment/ Fixture	Connection Point	Test Conditions (Mechanism Condition)	Adjustment Points
<ul style="list-style-type: none">• Oscilloscope• Alignment Tapes• Blank Tape• Post Height Adjusting Driver• Screw Driver(+) Type 5mm	<ul style="list-style-type: none">• CH-1: PB RF Envelope• CH-2: NTSC: SW 30Hz PAL: SW 25Hz• Head Switching Output Test Point• RF Envelope Output Test Point	<ul style="list-style-type: none">• Play the Blank Tape• Play an Alignment Tape	<ul style="list-style-type: none">• Guide Roller Precise Adjustment• Switching Point• Tracking Preset• X-Value
Checking/Adjustment Procedure Play a blank tape and check for tape curling or creasing around the Roller Guide. If there is a problem then follow the procedure 4. "Guide Roller Height" and 5. "Audio Control(A/C) Head Adjustment".		Connection Diagram  Waveform $V1/V \text{ MAX} \leq 0.7$ $V2/V \text{ MAX} \leq 0.8$ RF ENVELOPE OUTPUT 	
Fig. C-7			

8. Check the Tape Travel after Reassembling Deck Assembly.

8-1. Checking Audio and RF Locking Time during playback and after CUE or REV (FF/REW)

Test Equipment/ Fixture	Specification	Connection Points	Test Conditions (Mechanism Condition)
<ul style="list-style-type: none"> Oscilloscope Alignment Tapes(with 6H 3KHz Color Bar Signal) Stop Watch 	<ul style="list-style-type: none"> RF Locking Time: Less than 5 sec. Audio Locking Time: Less than 10sec 	<ul style="list-style-type: none"> CH-1: PB RF Envelope CH-2: Audio Output RF Envelope Output Point Audio Output Jack 	<ul style="list-style-type: none"> Play an Alignment Tape (with 6H 3kHz Color Bar Signal)
Checking Procedure Play an Alignment Tape then change the operating mode to CUE or REV and confirm if the unit meets the above listed specifications.		NOTES: 1) CUE is the forward search mode 2) REV is the backward search mode 3) Refer to the Play mode	

8-2. Checking for tape curling or jamming

Test Equipment/ Fixture	Specification	Test Conditions (Mechanism Condition)
<ul style="list-style-type: none"> T-160 Tape T-120 Tape 	<ul style="list-style-type: none"> Be sure there is no tape jamming or curling at the beginning, middle or end of the tape. 	<ul style="list-style-type: none"> Run the CUE, REV, Play mode at the beginning and the end of the tape.
Checking Procedure 1) Confirm that the tape runs smoothly around the roller guides, Drum and A/C Head Assemblies while abruptly changing operating modes from Play to CUE or REV. This is to be checked at the beginning, middle and end sections of the tape. 2) Confirm that the tape passes over the A/C Head Assembly as indicated by proper audio reproduction and proper tape counter performance.		

MAINTENANCE/INSPECTION PROCEDURE

1. Check before starting repairs

The following faults can be remedied by cleaning and oiling. Check the needed lubrication and the conditions of cleanliness in the unit.

Check with the customer to find out how often the unit is used, and then determine that the unit is ready for inspection and maintenance. Check the following parts.

Phenomenon	Inspection	Replace-ment
Color beats	Dirt on Full-Erase Head	o
Poor S/N, no color	Dirt on Video Head	o
Vertical or Horizontal jitter	Dirt on Video Head Dirt on tape transport system	o
Low volume, Sound distorted	Dirt on Audio/Control Head	o
Tape does not run. Tape is slack	Dirt on Pinch Roller	o
In Review and Unloading (off mode), the tape is rolled up loosely.	Clutch Assembly D35 torque reduced	o
	Cleaning Drum and transport system	Fig. C-9-3

F/E Head

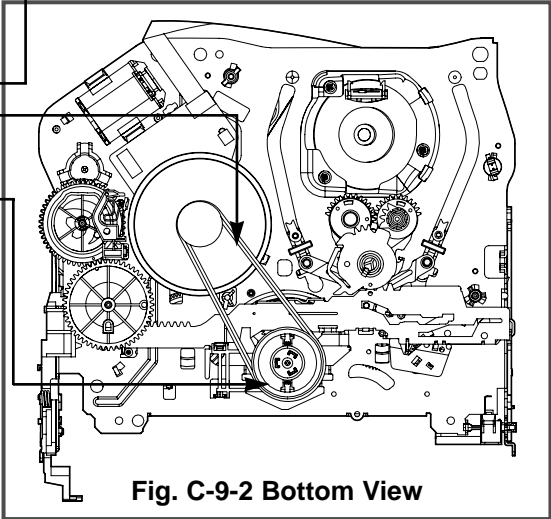
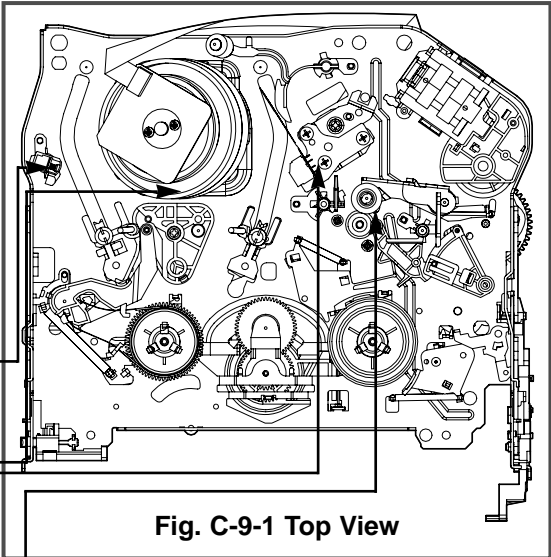
Video Head

A/C Head

Pinch Roller

Belt Capston

Clutch Assembly D35



NOTE

If locations marked with o do not operate normally after cleaning, check for wear and replace.

See the EXPLODED VIEWS at the end of this manual as well as the above illustrations and see the Greasing (Page 4-21, 22) for the sections to be lubricated and greased.

* No. (1)~(12) Indicates the Tape Path to be traveled from Supply Reel to Take-up Reel.

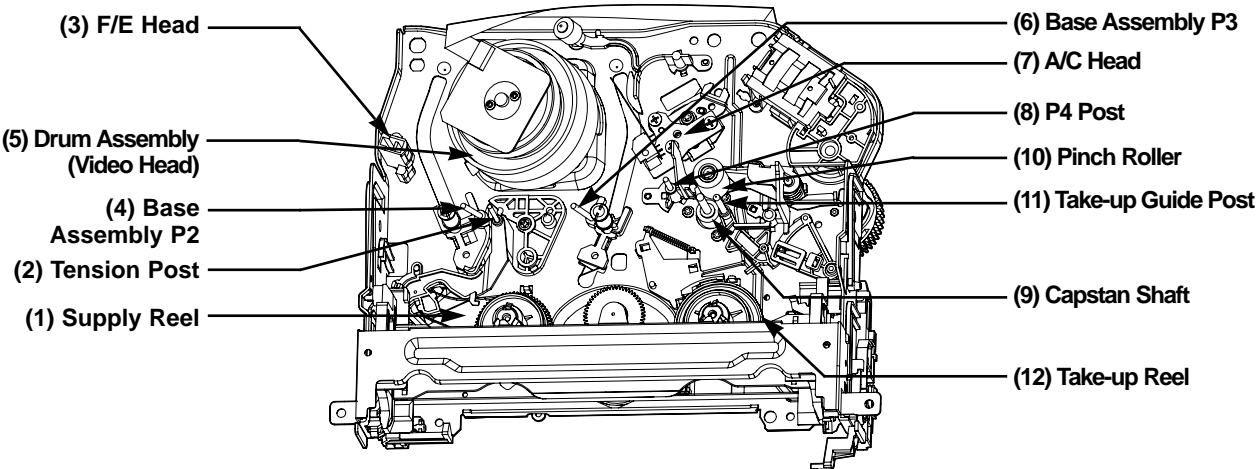


Fig. C-9-3 Tape Transport System

MAINTENANCE/INSPECTION PROCEDURE

2. Required Maintenance

The recording density of a VCR(VCP) is much higher than that of an audio tape recorder. VCR(VCP) components must be very precise, at tolerances of 1/1000mm, to ensure compatibility with the other VCRs. If any of these components are worn or dirty, the symptoms will be the same as if the part is defective. To ensure a good picture, periodic inspection and maintenance, including replacement of worn out parts and lubrication, is necessary.

3. Scheduled Maintenance

Schedules for maintenance and inspection are not fixed because they vary greatly according to the way in which the customer uses the VCR(VCP), and the environment in which the VCR(VCP) is used.

But, in general home use, a good picture will be maintained if inspection and maintenance is made every 1,000 hours. The table below shows the relation between time used and inspection period.

Table 1

When inspection is necessary Average hours used per day	About 1 year	About 18 months	About 3 years
One hour			
Two hours			
Three hours			

4. Supplies Required for Inspection and Maintenance

- (1) Grease : Kanto G-311G (Blue) or equivalent
- (2) Isopropyl Alcohol or equivalent
- (3) Cleaning Patches
- (4) Grease : Kanto G-381(Yellow)

5. Maintenance Procedure

5-1) Cleaning

- (1) Cleaning video head

First use a cleaning tape. If the dirt on the head is too stubborn to remove by tape, use the cleaning patch. Coat the cleaning patch with Isopropyl Alcohol. Touch the cleaning patch to the head tip and gently turn the head(rotating cylinder) right and left.

(Do not move the cleaning patch vertically. Make sure that only the buckskin on the cleaning patch comes into contact with the head. Otherwise, the head may be damaged.)

Thoroughly dry the head. Then run the test tape. If Isopropyl Alcohol remains on the video head, the tape may be damaged when it comes into contact with the head surface.

- (2) Clean the tape transport system and drive system, etc, by wiping with a cleaning patch wetted with Isopropyl Alcohol.

NOTES:

- ① It is the tape transport system which comes into contact with the running tape. The drive system consists of those parts which moves the tape.
- ② Make sure that during cleaning you do not touch the tape transport system with excessive force that would cause deformation or damage to the system.

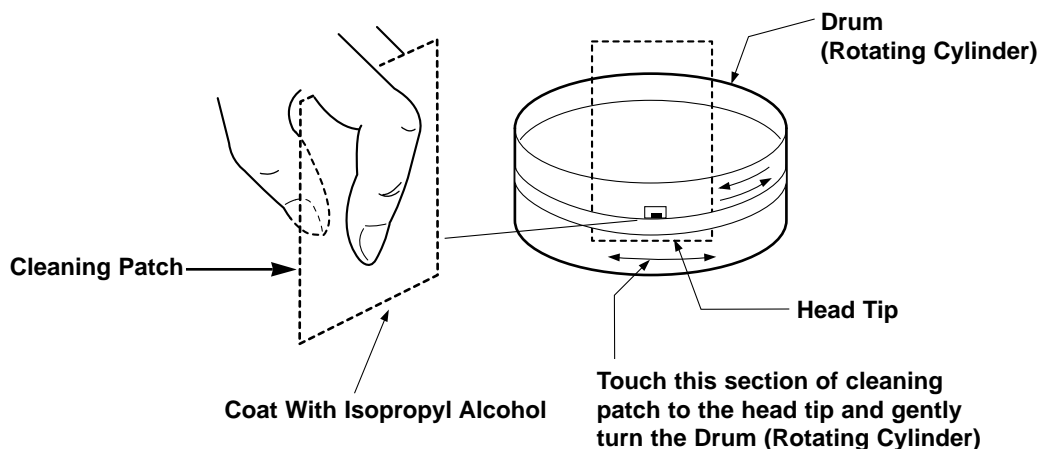


Fig. C-9-4

MAINTENANCE/INSPECTION PROCEDURE

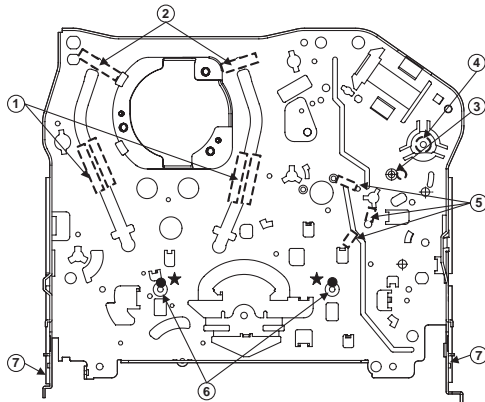
5-2) Greasing

(1) Greasing guidelines

Apply grease, with a cleaning patch. Do not use excessive grease. It may come into contact with the tape transport or drive system. Wipe excessive grease and clean with cleaning patch wetted in Isopropyl Alcohol.

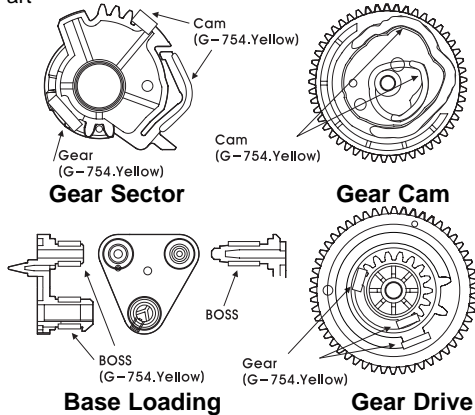
NOTE:Greasing Points

- | | |
|-----------------------------------|---------------------------------------|
| 1) Loading Path Inside & Top side | 5) Arm Take-up Rubbing Sections |
| 2) Base Assembly P2, P3 stopper | 6) Reel S,T shaft(G381:Yellow) |
| 3) Shaft | 7) Arm Assembly F/L Rotating Sections |
| 4) L/D Motor Gear Wheel Part | |



Chassis (Top)

Gear Part



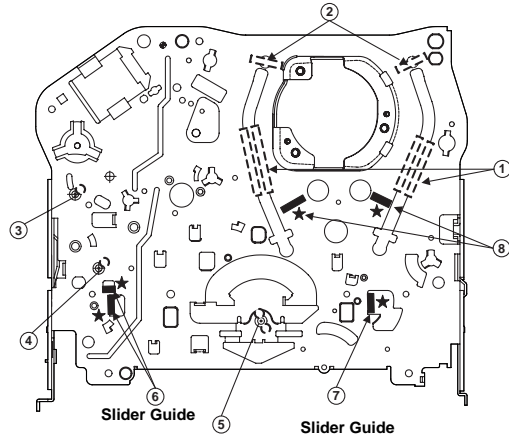
Chassis (Left Side)

Chassis (Right Side)

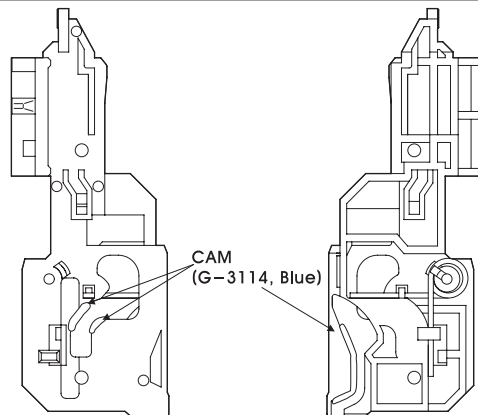
(2) Periodic greasing

Grease specified locations every 5,000 hours.

- | | |
|-----------------------------------|------------------------------------------|
| 1) Loading Path Inside & Top side | 6) Plate Slider Guide Sections |
| 2) Base Assembly P2,P3 stopper | 7) Plate Slider Guide Sections |
| 3) Shaft | 8) Gear Assembly P2, P2 Rubbing Sections |
| 4) Shaft | |
| 5) Clutch Assembly D35 Shaft | |



Chassis (Bottom)



Gear Rack F/L

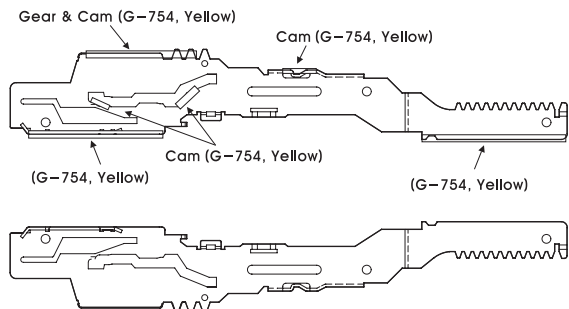
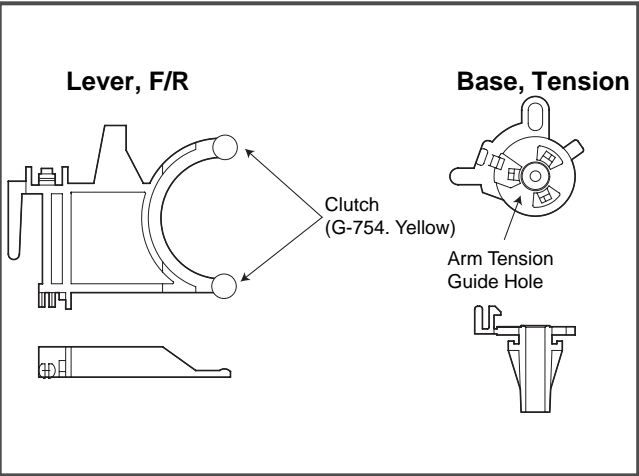


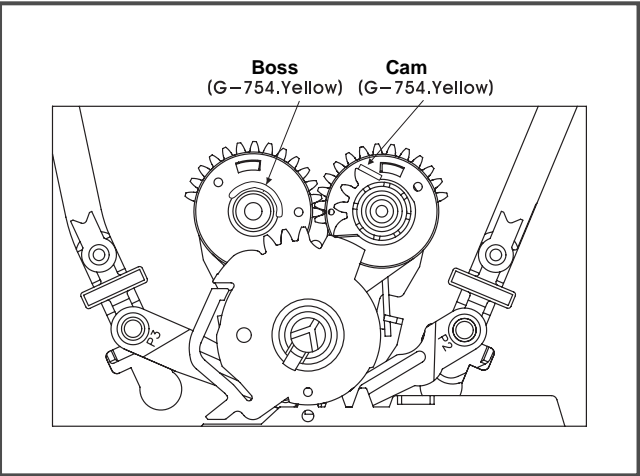
Plate Slider

MAINTENANCE/INSPECTION PROCEDURE

Lever, F/R, Base, Tension



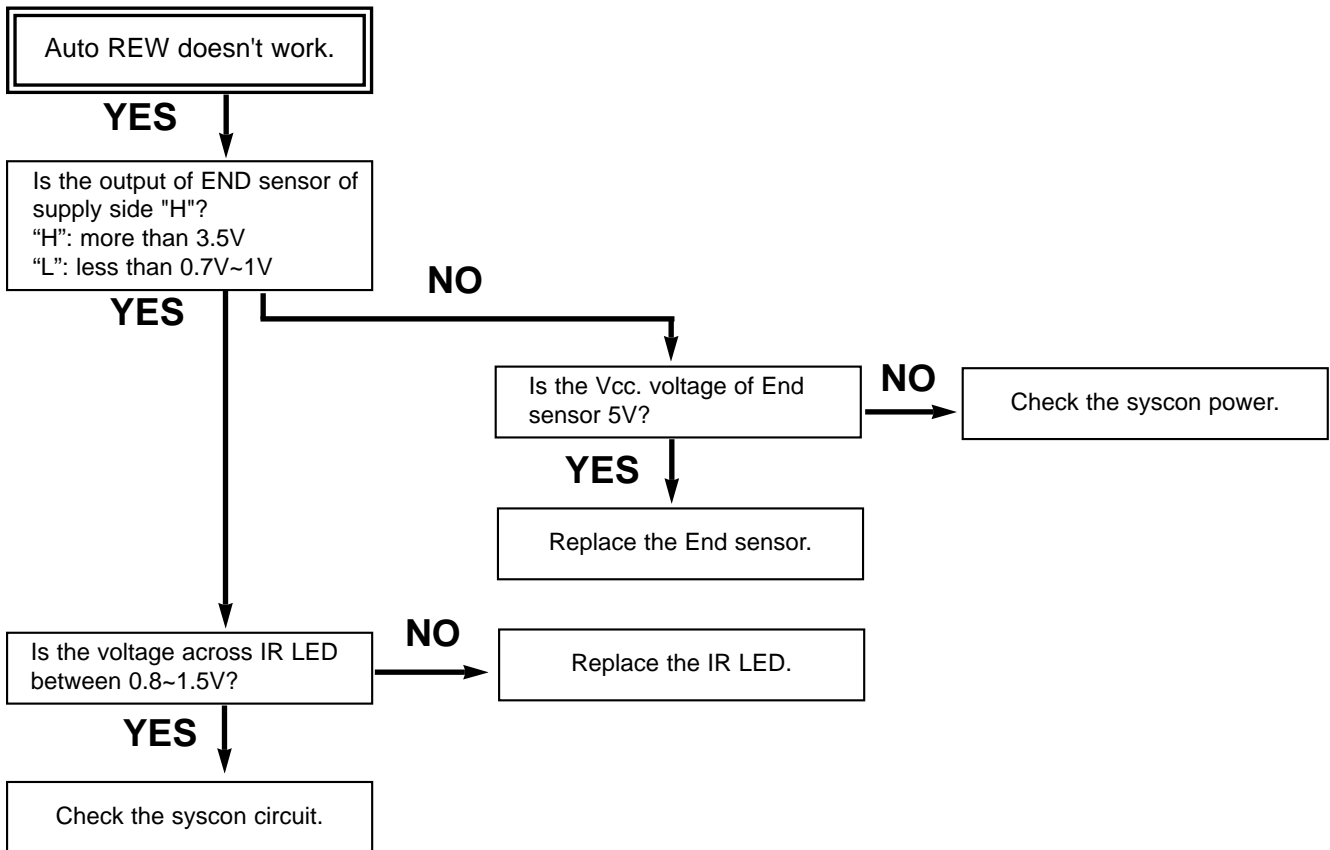
GEAR AY, P2 & P3



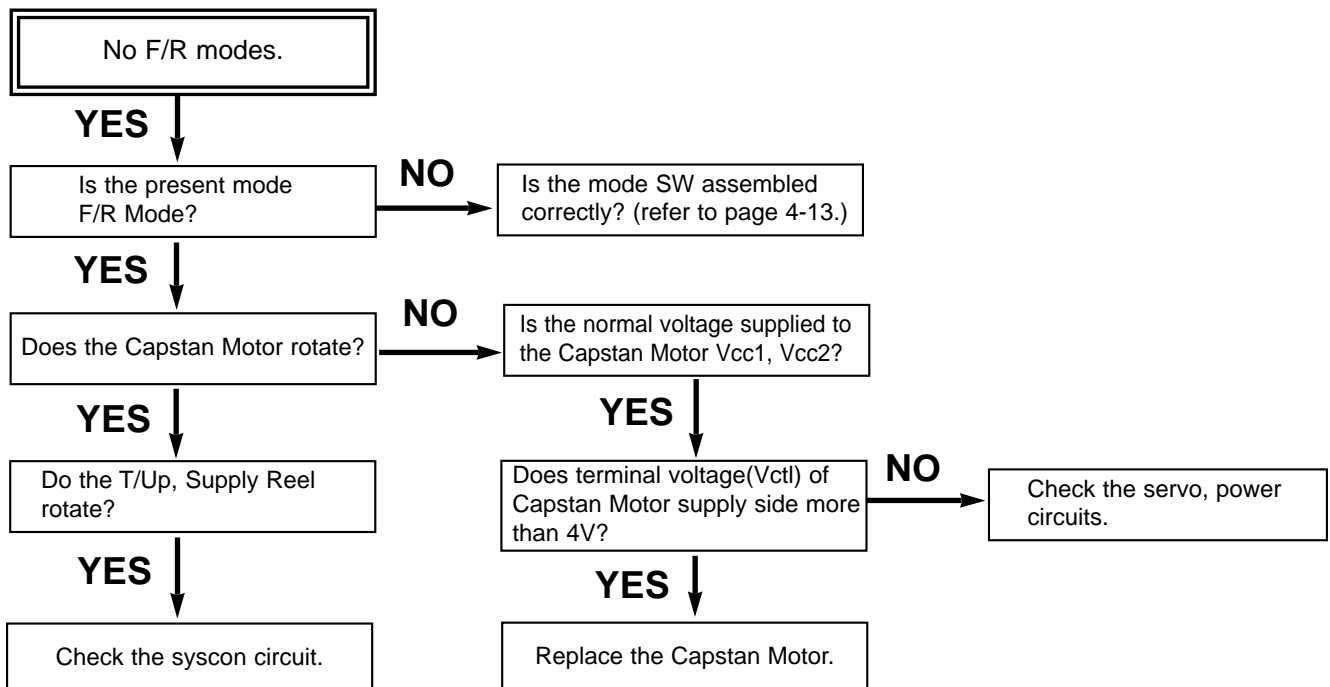
MECHANISM TROUBLESHOOTING GUIDE

1. Deck Mechanism

A.

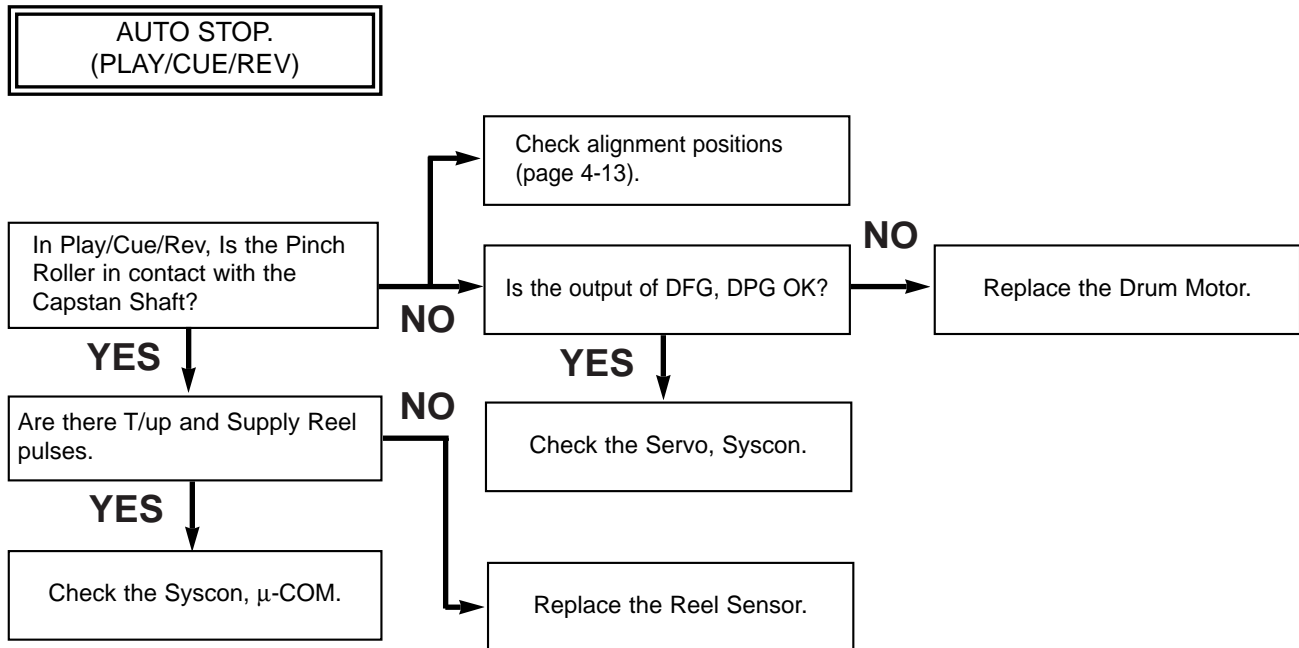


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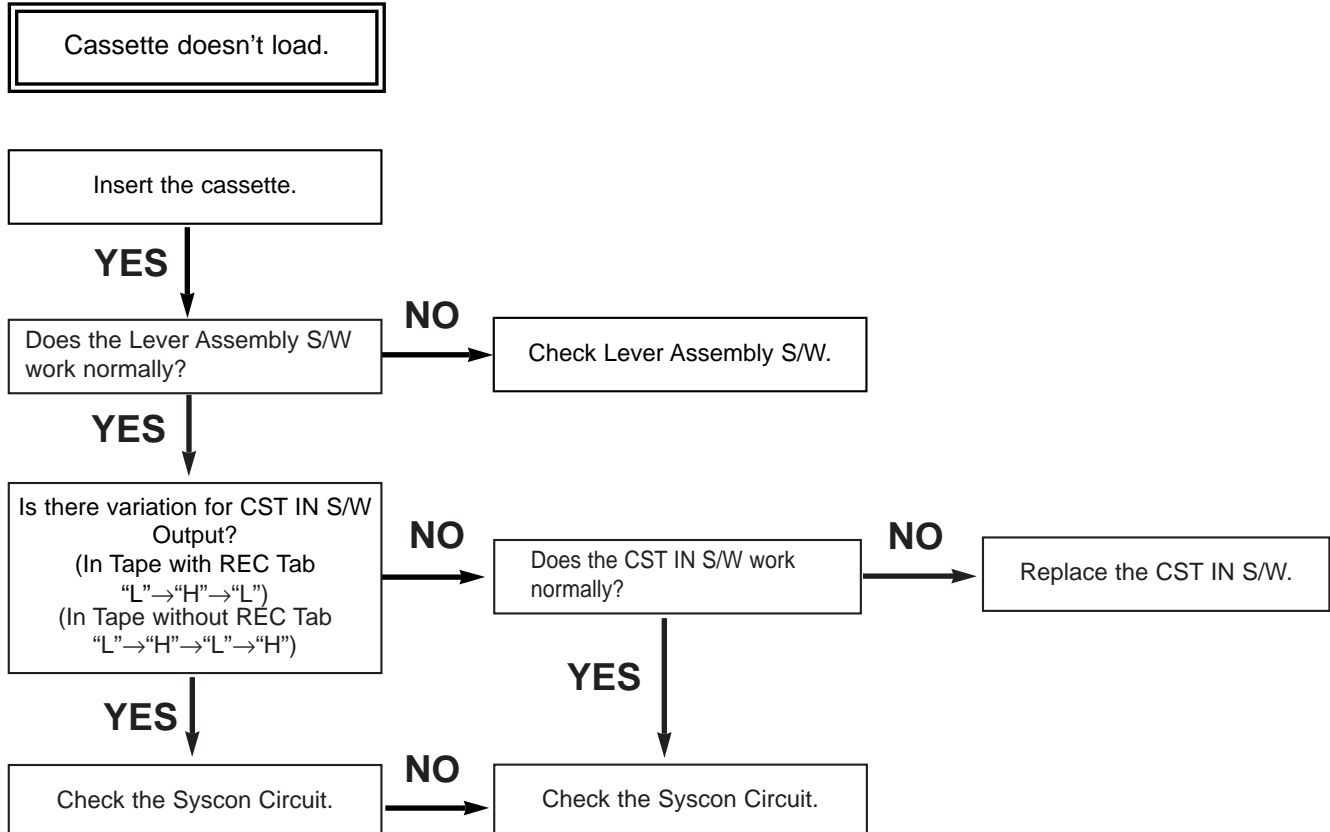


MECHANISM TROUBLESHOOTING GUIDE

C.

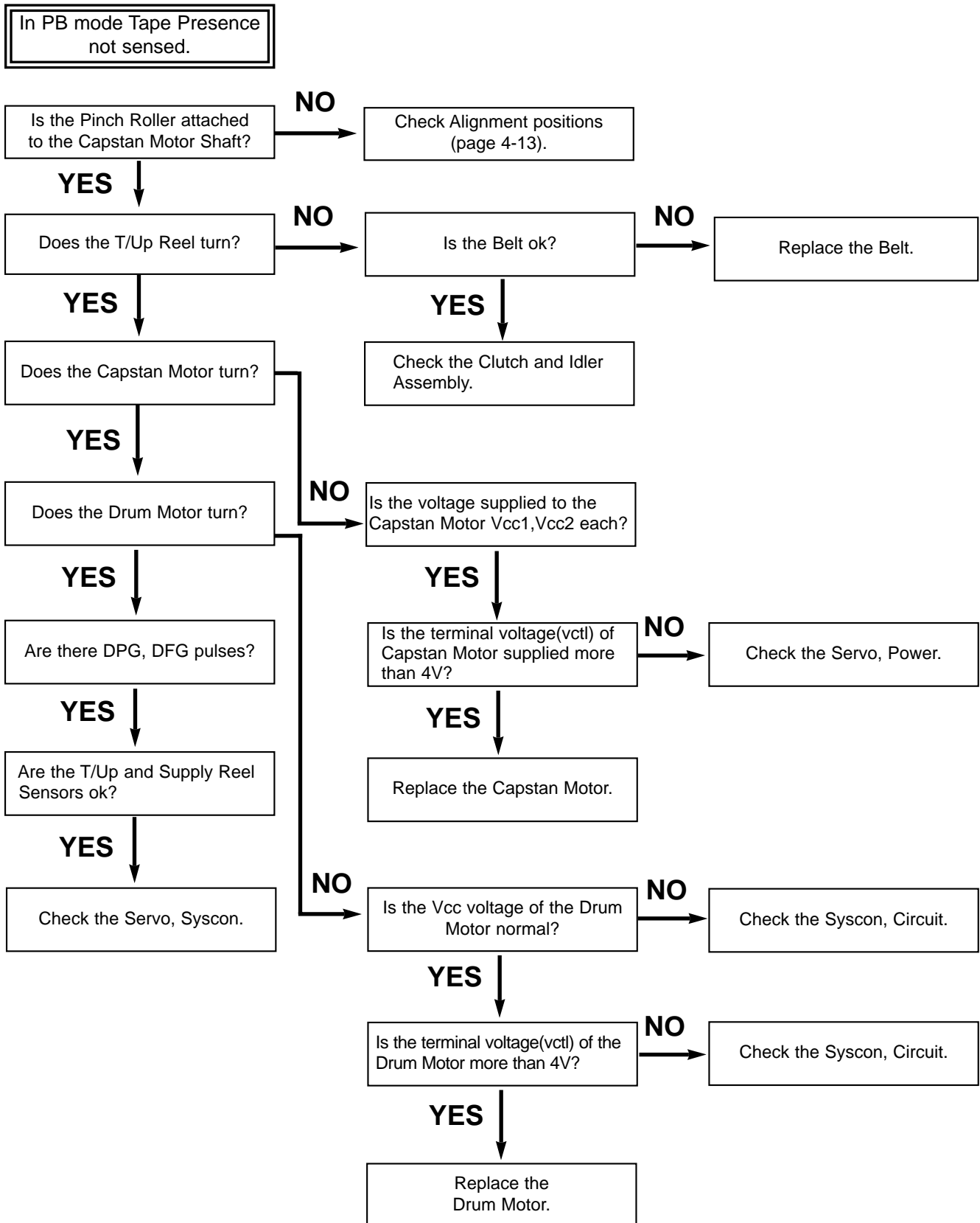


D.



MECHANISM TROUBLESHOOTING GUIDE

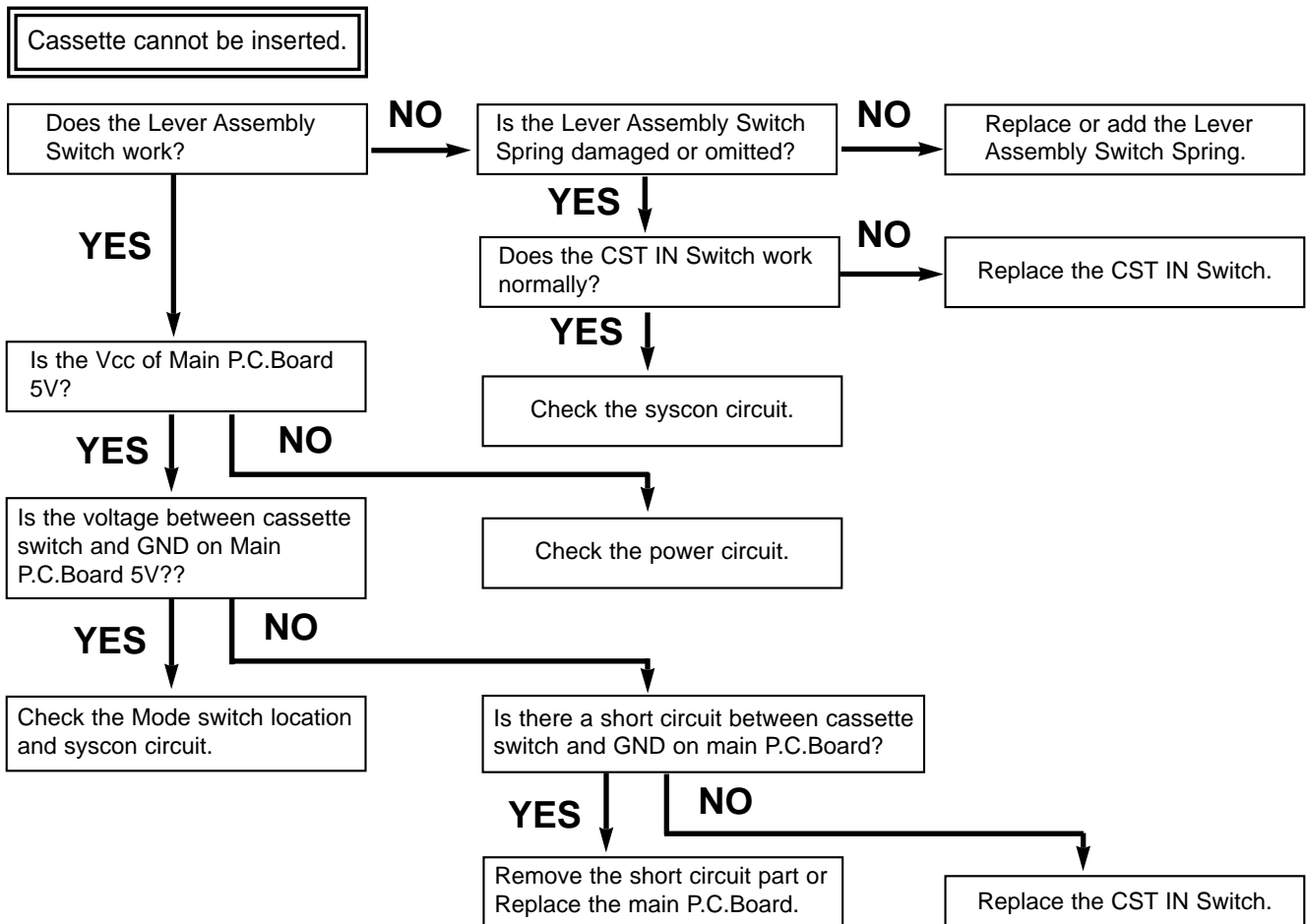
E.



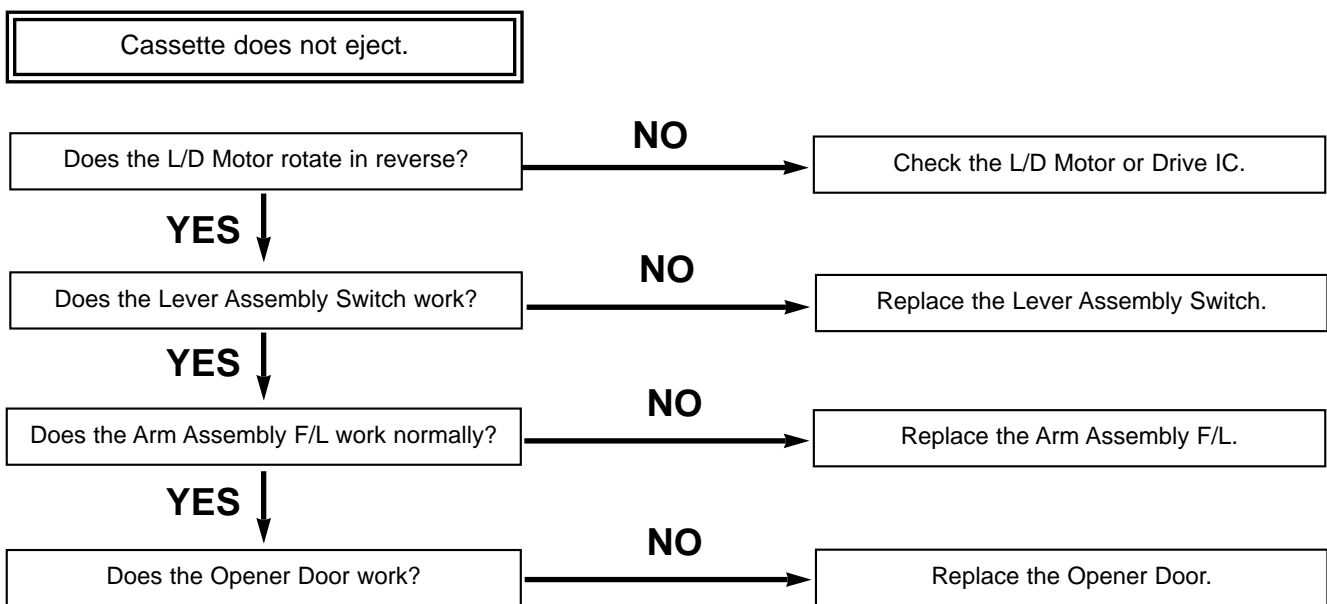
MECHANISM TROUBLESHOOTING GUIDE

2. Front Loading Mechanism

A.

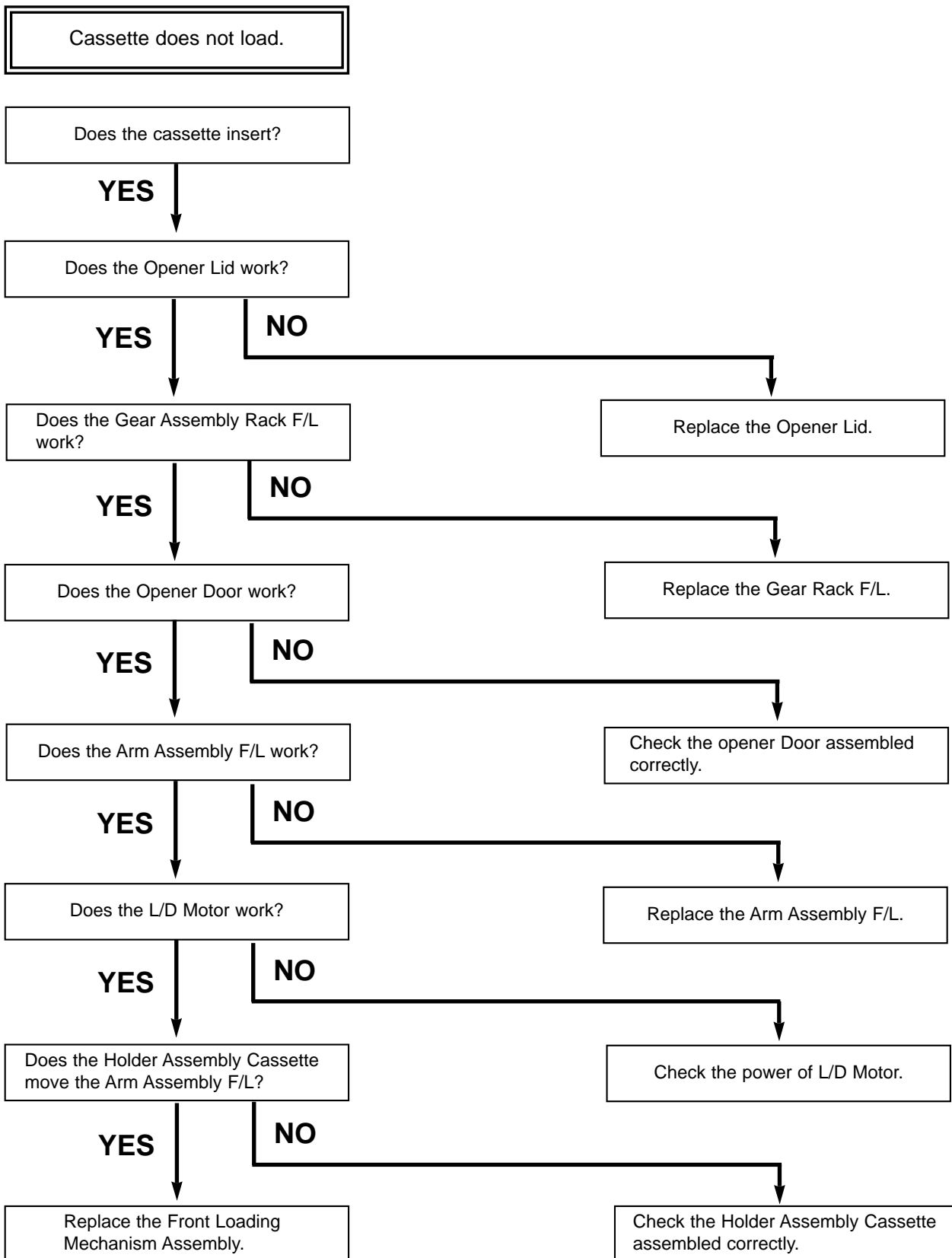


B.



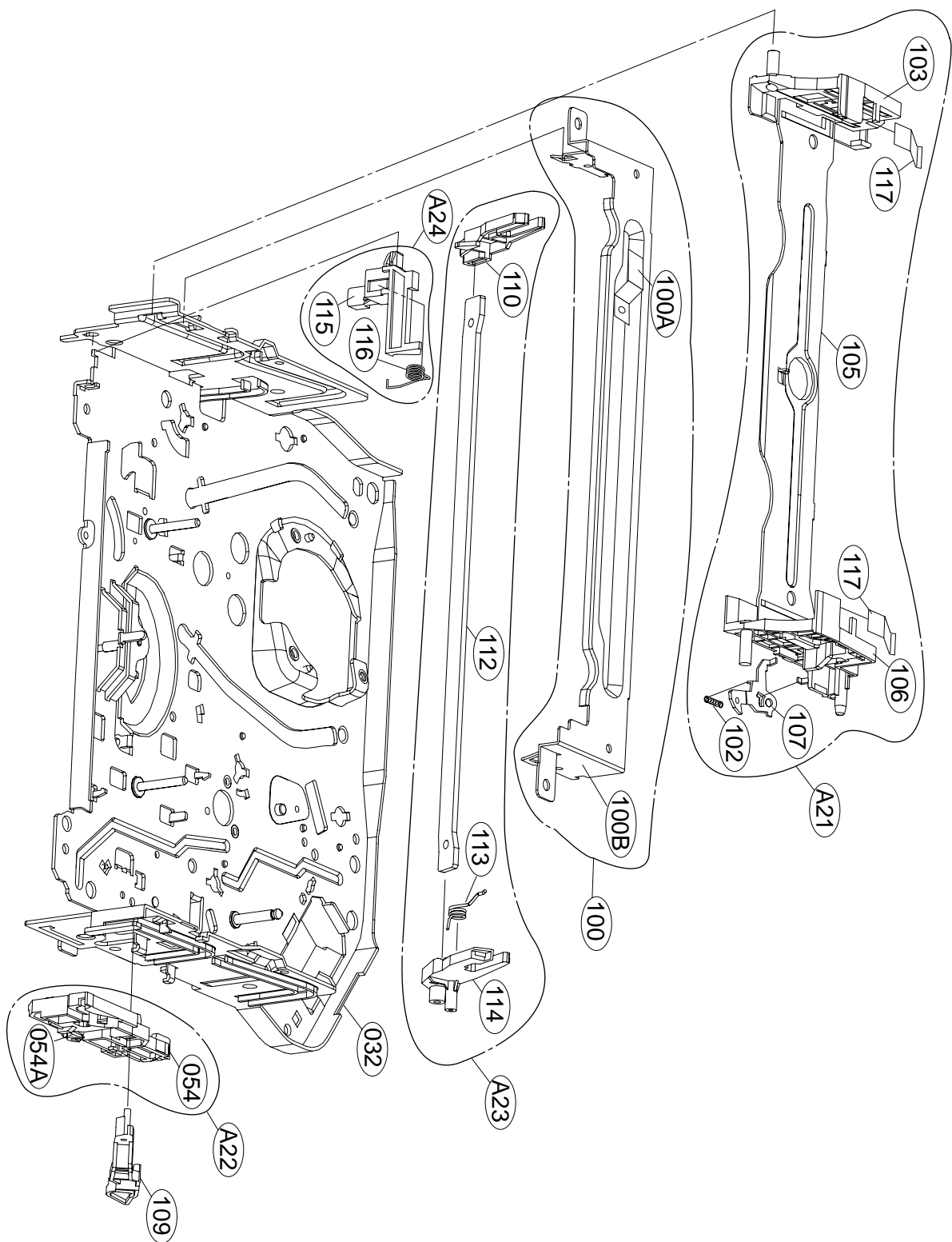
MECHANISM TROUBLESHOOTING GUIDE

C.



EXPLODED VIEWS

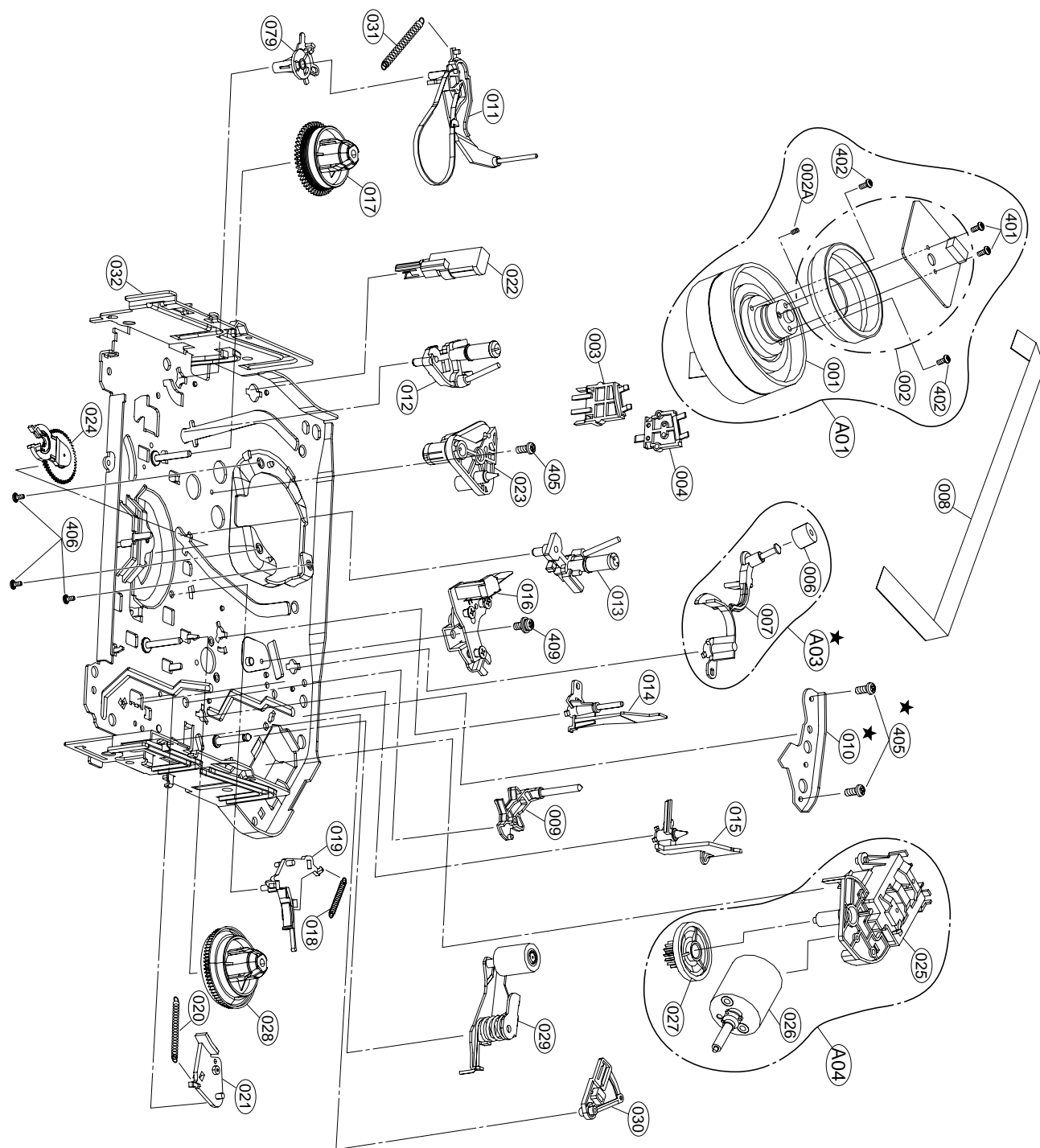
1. Front Loading Mechanism Section



EXPLODED VIEWS

2. Moving Mechanism Section(1)

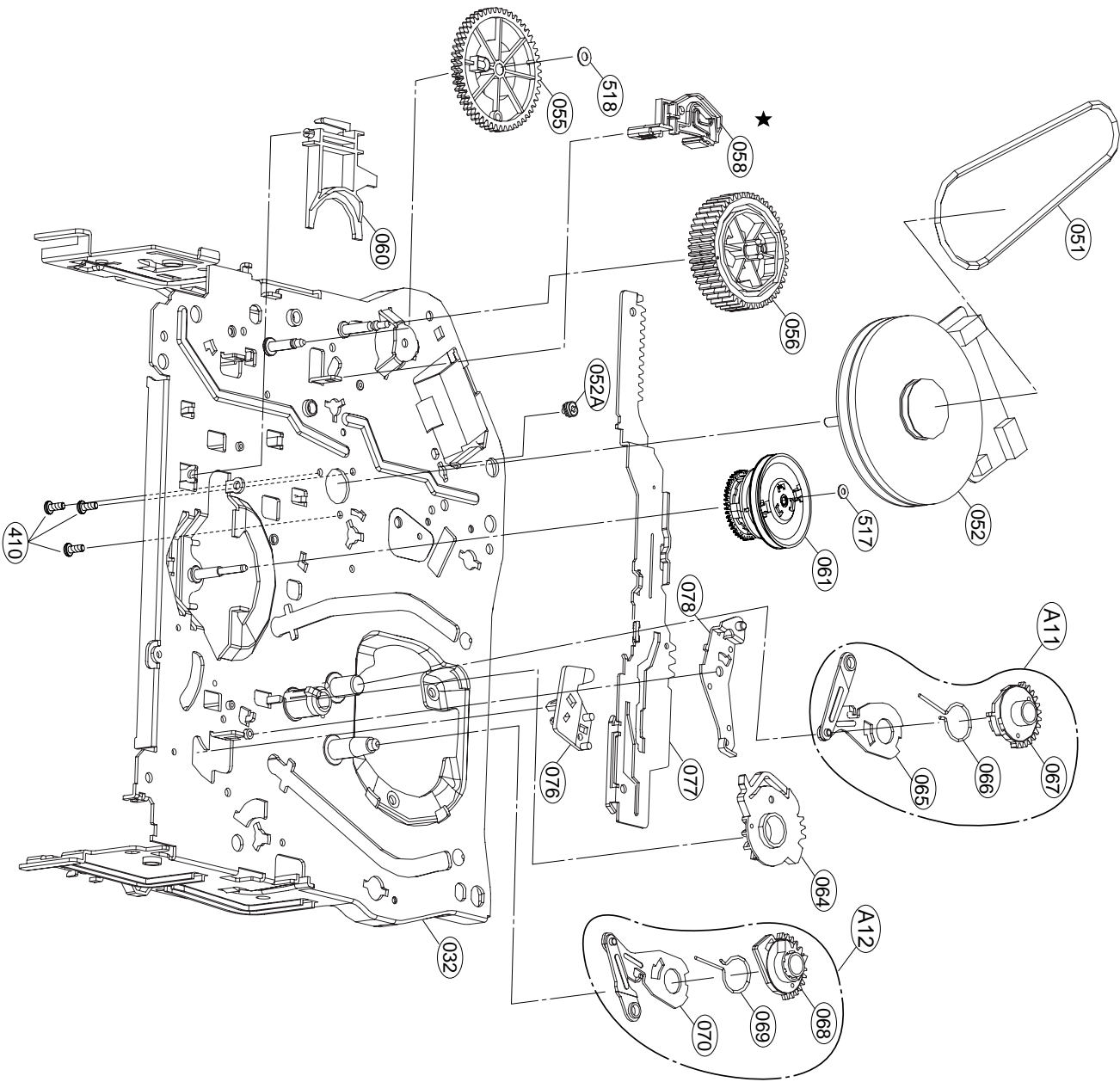
★ OPTIONAL PART



EXPLODED VIEWS

3. Moving Mechanism Section(2)

★ OPTIONAL PART



SECTION 5 MECHANISM OF DVD PART

CONTENTS

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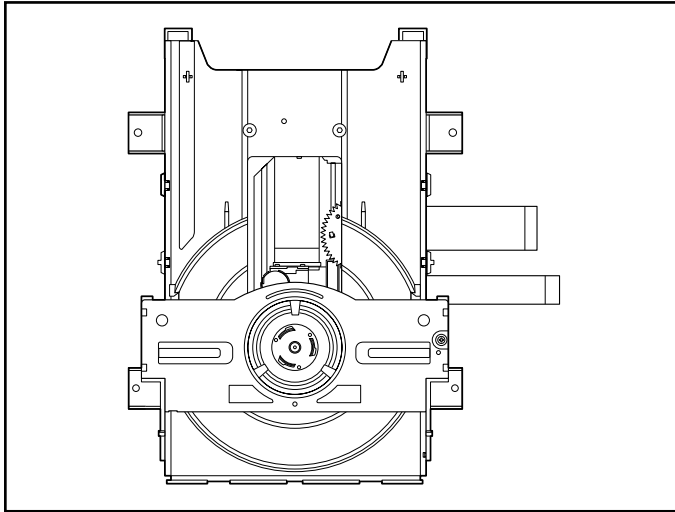
- 5. Frame Assembly Up/Down.....5-4
- 6. Belt Loading.....5-4
- 7. Gear Pulley5-4
- 8. Gear Loading5-4
- 9. Guide Up/Down.....5-4
- 10. PWB Assembly Loading5-4
- 11. Base Main.....5-4

EXPLODED VIEW

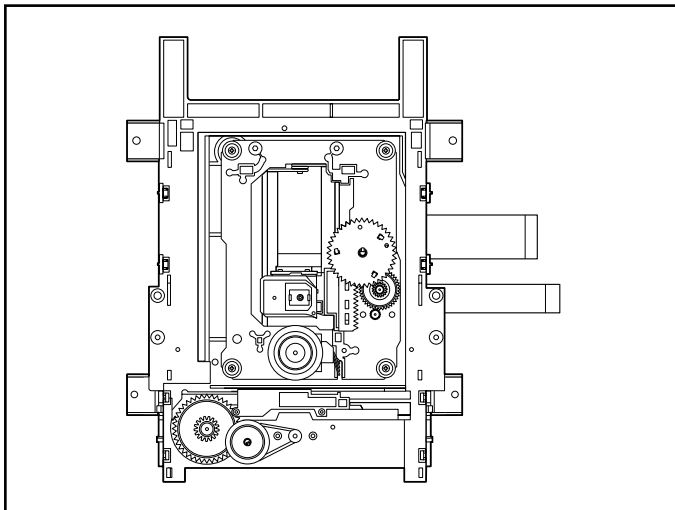
- 1. Deck Mechanism Exploded View....5-5

DECK MECHANISM PARTS LOCATION

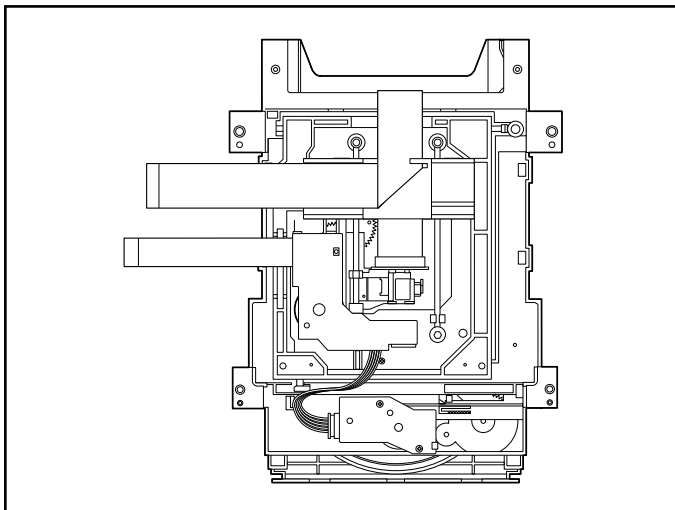
• Top View (With Tray)



• Top View (Without Tray)



• Bottom View



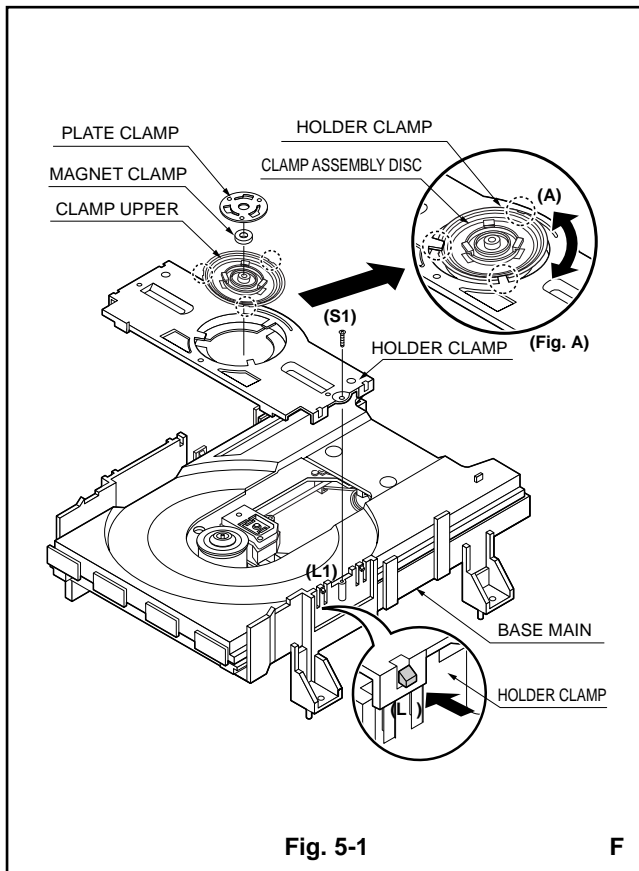
Procedure		Parts	Fixing Type	Disassembly	Figure
Starting No.					
	1	Holder Clamp	2 Screws, 2 Locking Tabs		5-1
1	2	Clamp Assembly Disc			5-1
1, 2	3	Plate Clamp			5-1
1, 2, 3	4	Magnet Clamp			5-1
1, 2, 3, 4	5	Clamp Upper			5-1
1	6	Tray Disc			5-2
1, 6	7	Base Assembly Sled			5-3
1, 2, 6	8	Gear Assembly Feed	4 Screws, 1 Connector 1 Locking Tabs		5-3
1, 2, 6, 8	9	Gear Middle			5-3
1, 2, 6, 8, 9	10	Gear Assembly Rack	1 Screw		5-3
1, 2, 7	11	Rubber Rear			5-3
1, 2, 7	12	Frame Assembly Up/Down	1 Screw	Bottom	5-4
1, 2	13	Belt Loading	1 Locking Tab		5-4
1, 2, 13	14	Gear Pulley			5-4
1, 2, 13, 14	15	Gear Loading	1 Locking Tab		5-4
1, 2, 7, 12, 13, 14	16	Guide Up/Down			5-4
1, 2, 13	17	PWB Assembly Loading	1 Locking Tab 1 Hook 2Screw	Bottom	5-4
1, 2, 7, 12, 13, 14, 15, 16, 17	18	Base Main	2 Locking Tabs		5-4

Note

When reassembling, perform the procedure in reverse order.

The "Bottom" on Disassembly column of above Table indicates the part should be disassembled at the Bottom side.

DECK MECHANISM DISASSEMBLY



1. Holder Clamp (Fig. 5-1)

- 1) Release 1 Screws(S1).
- 2) Unhook 2 Locking Tabs(L1).
- 3) Lift up the Holder Clamp and then separate it from the Base Main.

1-1. Clamp Assembly Disc

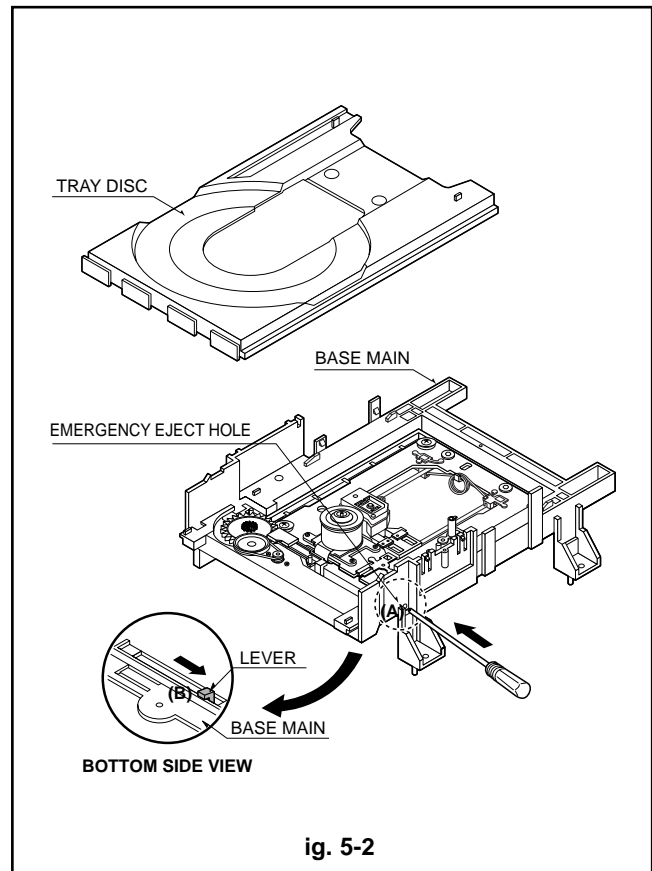
- 1) Place the Clamp Assembly Disc as Fig. (A)
- 2) Lift up the Clamp Assembly Disc in direction of arrow(A).
- 3) Separate the Clamp Assembly Disc from the Holder Clamp.

1-1-1. Plate Clamp

- 1) Turn the Plate Clamp to counterclockwise direction and then lift up the Plate Clamp.

1-1-2. Magnet Clamp

1-1-3. Clamp Upper



2. Tray Disc (Fig. 5-2)

- 1) Insert and push a Driver in the emergency eject hole(A) at the right side, or put the Driver on the Lever(B) of the Gear Emergency and pull the Lever(B) in direction of arrow so that the Tray Disc is ejected about 15~20mm.
- 2) Pull the Tray Disc until it is separated from the Base Main completely.

DECK MECHANISM DISASSEMBLY

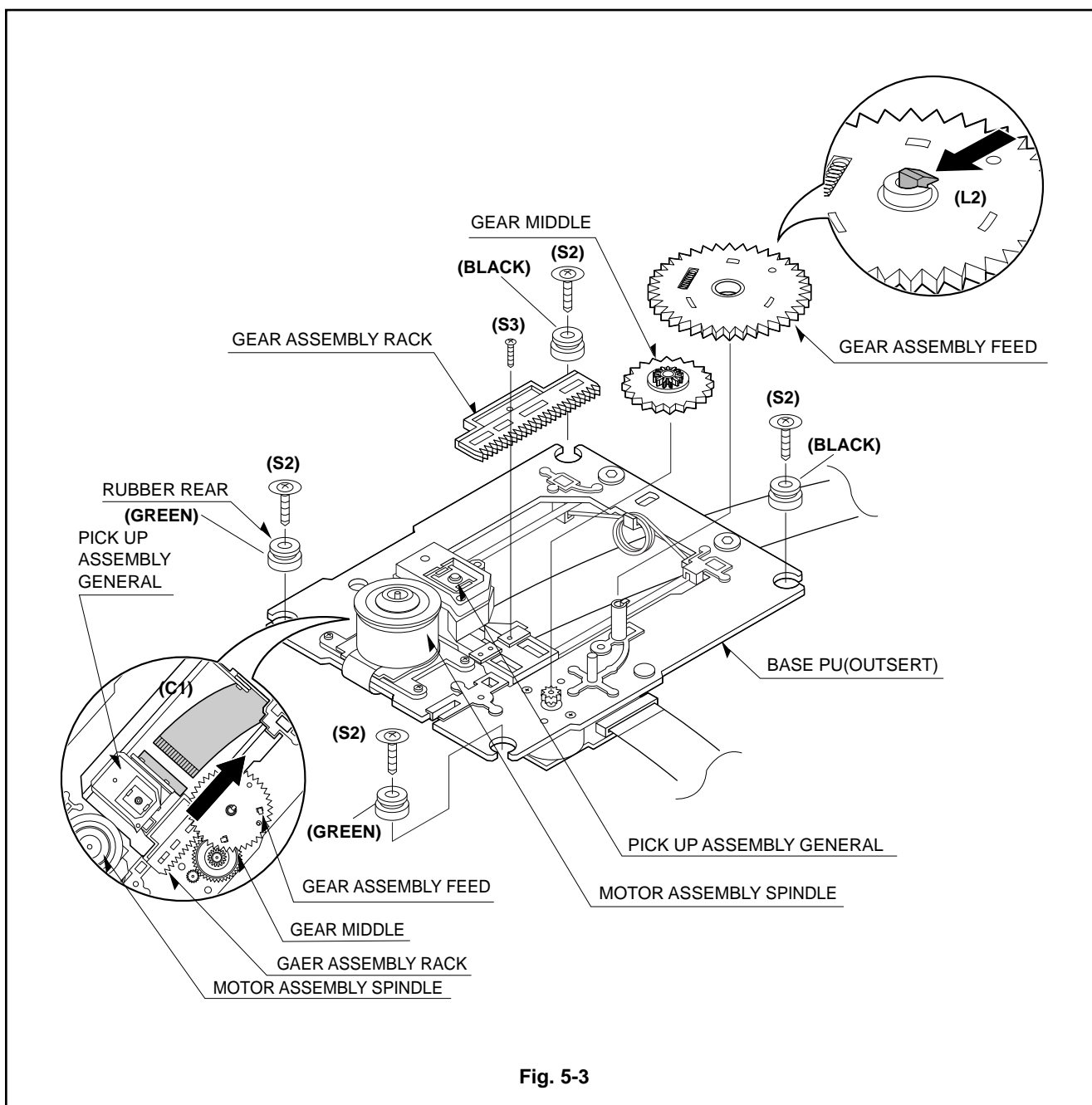


Fig. 5-3

3. Base Assembly Sled (Fig. 5-3)

- 1) Release 4 Screw(S2).
- 2) Disconnect the FFC Connector(C1)

3-1. Gear Assembly Feed

- 1) Unhook the Locking Tab(L2) in direction of arrow.

3-2. Gear Middle

3-3. Gear Assembly Rack

- 1) Release the Screw(S3)

4. Rubber Rear (Fig. 5-3)

DECK MECHANISM DISASSEMBLY

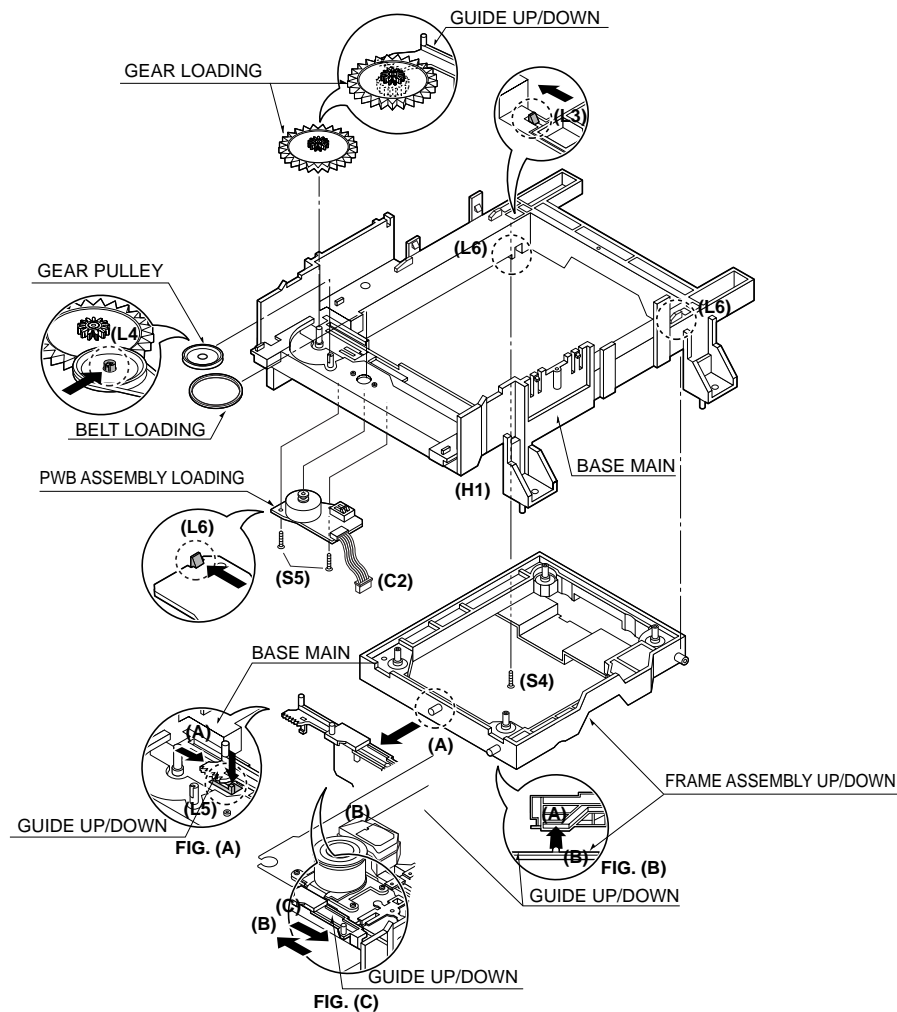


Fig. 5-4

5. Frame Assembly Up/Down (Fig. 5-4)

Note

Put the Base Main face down(Bottom Side)

- 1) Release the Screw(S4)
- 2) Unlock the Locking Tab(L3) in direction of arrow and then lift up the Frame Assembly Up/Down to separate it from the Base Main.

Note

- When reassembling move the Guide Up/Down in direction of arrow(C) until it is positioned as Fig.(C).
- When reassembling insert (A) portion of the Frame Assembly Up/Down in the (B) portion of the Guide Up/Down as Fig.(B)

6. Belt Loading(Fig. 5-4)

Note

Put the Base Main on original position(Top Side)

7. Gear pulley (Fig. 5-4)

- 1) Unlock the Locking Tab(L4) in direction of arrow(B) and then separate the Gear Pulley from the Base Main.

8. Gear Loading (Fig. 5-4)

9. Guide Up/Down (Fig. 5-4)

- 1) Move the Guide Up/Down in direction of arrow(A) as Fig.(A)
- 2) Push the Locking Tab(L5) down and then lift up the Guide Up/Down to separate it from the Base Main.

Note

When reassembling place the Guide Up/Down as Fig.(C) and move it in direction arrow(B) until it is locked by the Locking Tab(L5). And confirm the Guide Up/Down as Fig.(A)

10. PWB Assembly Loading (Fig. 5-4)

Note

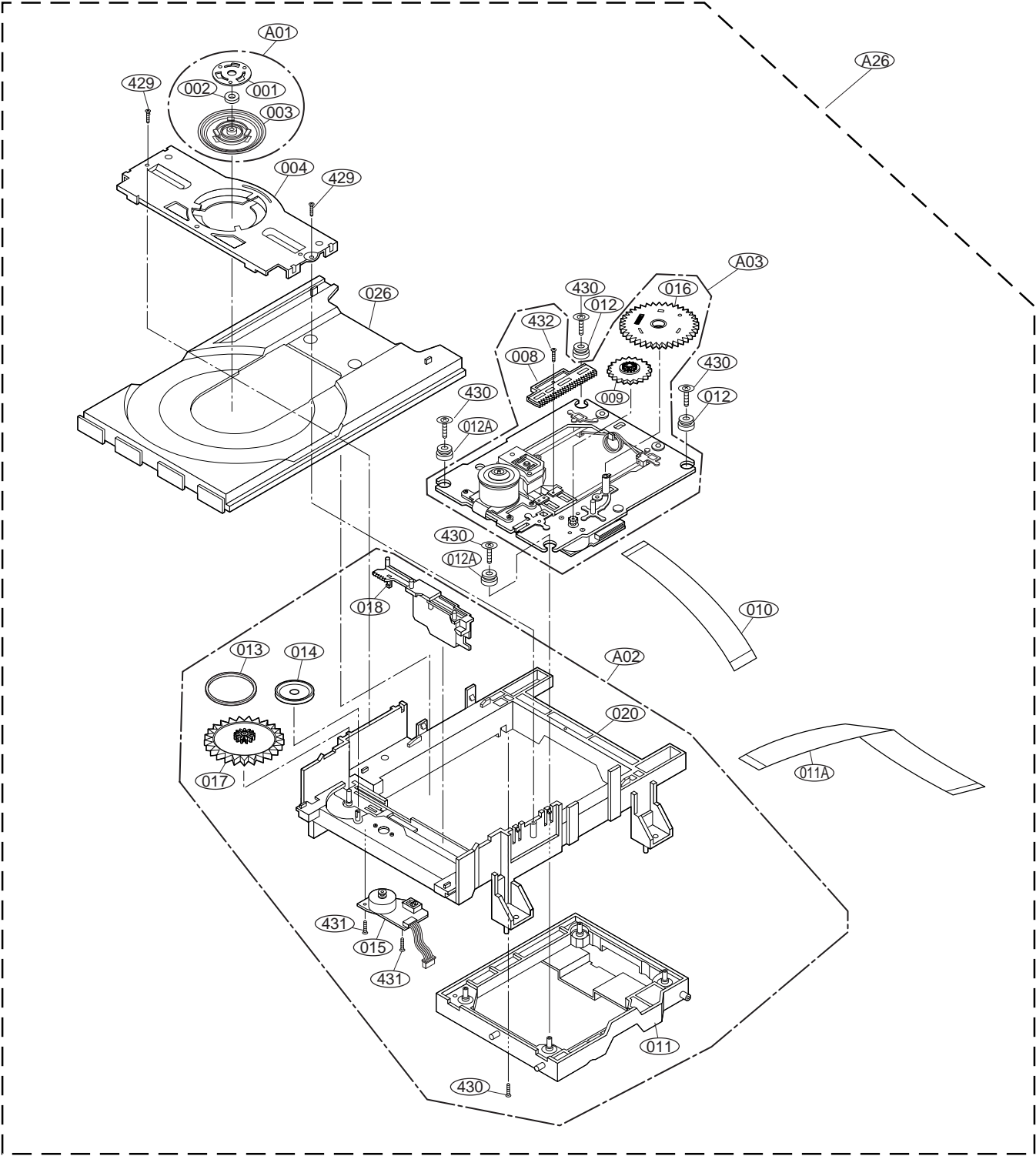
Put the Base Main face down(Bottom Side)

- 1) Release 2 Screws(S5)
- 2) Unhook the Loading Motor Connector (C2) from the Hook (H1) on the Base Main.
- 3) Unlock 2 Locking Tabs(L6) and separate the PWB Assembly Loading from the Base Main.

11. Base Main(Fig. 5-4)

EXPLODED VIEWS

1. Deck Mechanism Exploded View





VICTOR COMPANY OF JAPAN, LIMITED

AV & MULTIMEDIA COMPANY. 12,3-chome,Moriya-cho,Kanagawa-ku,Yokohama,Kanagawa-prefecture,221-8528,Japan



Printed in Japan
0306 VP

SECTION 6 REPLACEMENT PARTS LIST

SAFETY PRECAUTION

Parts identified by the \triangle symbol are critical for safety. Replace only with specified part numbers.

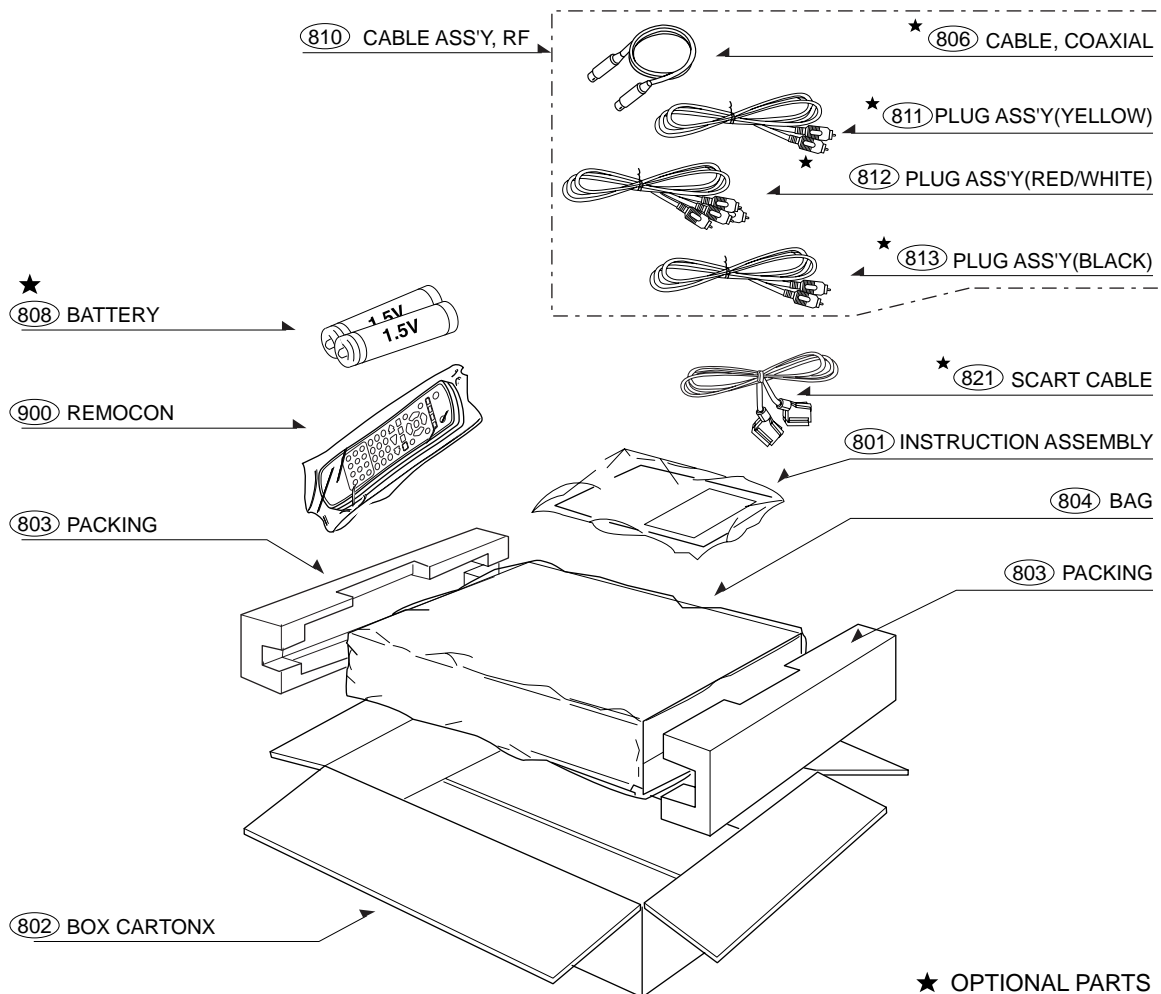
BEWARE OF BOGUS PARTS

Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine JVC parts be used.

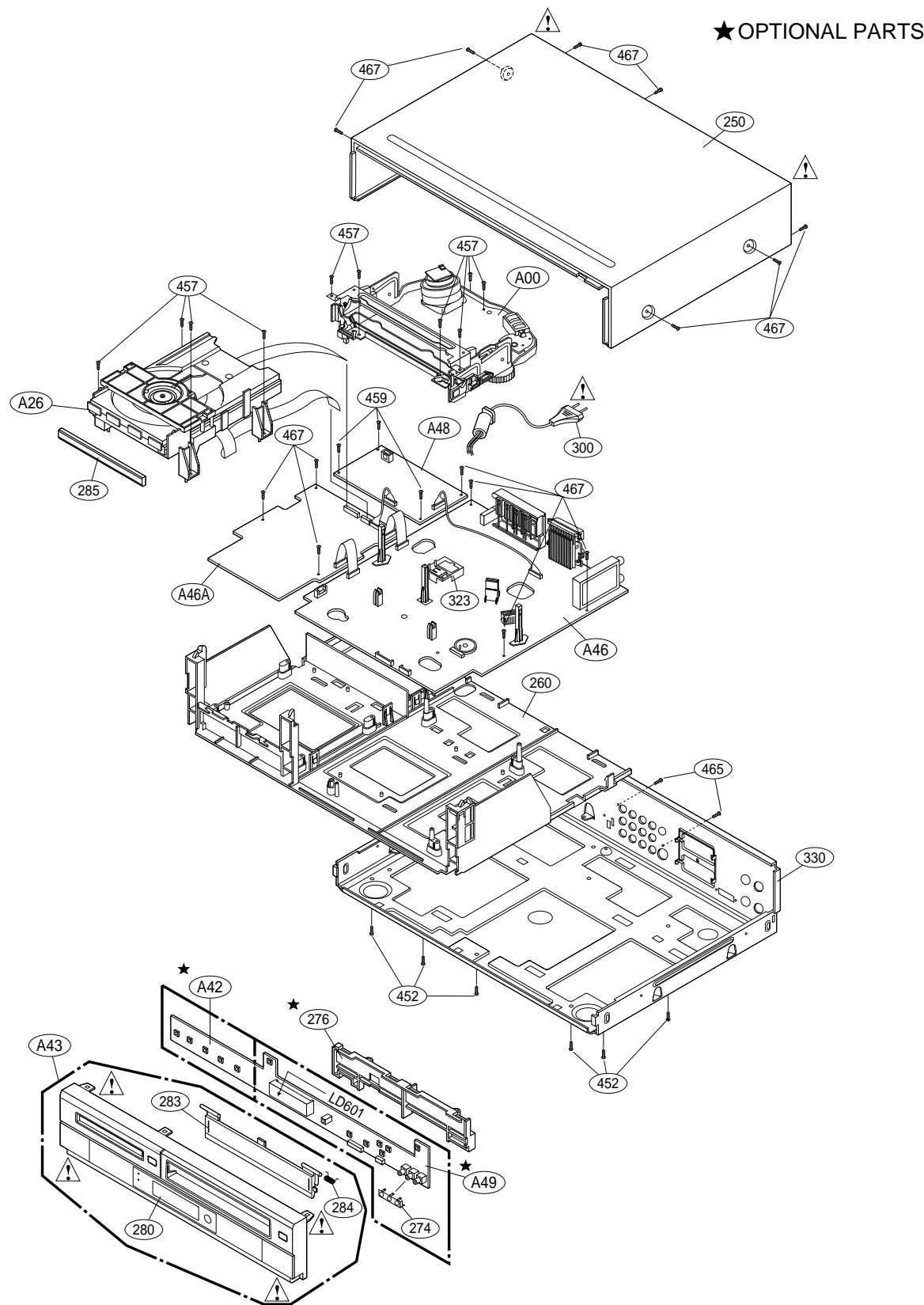
6.1 EXPLODED VIEW

6.1.1 PACKING AND ACCESSORY ASSEMBLY <M1>

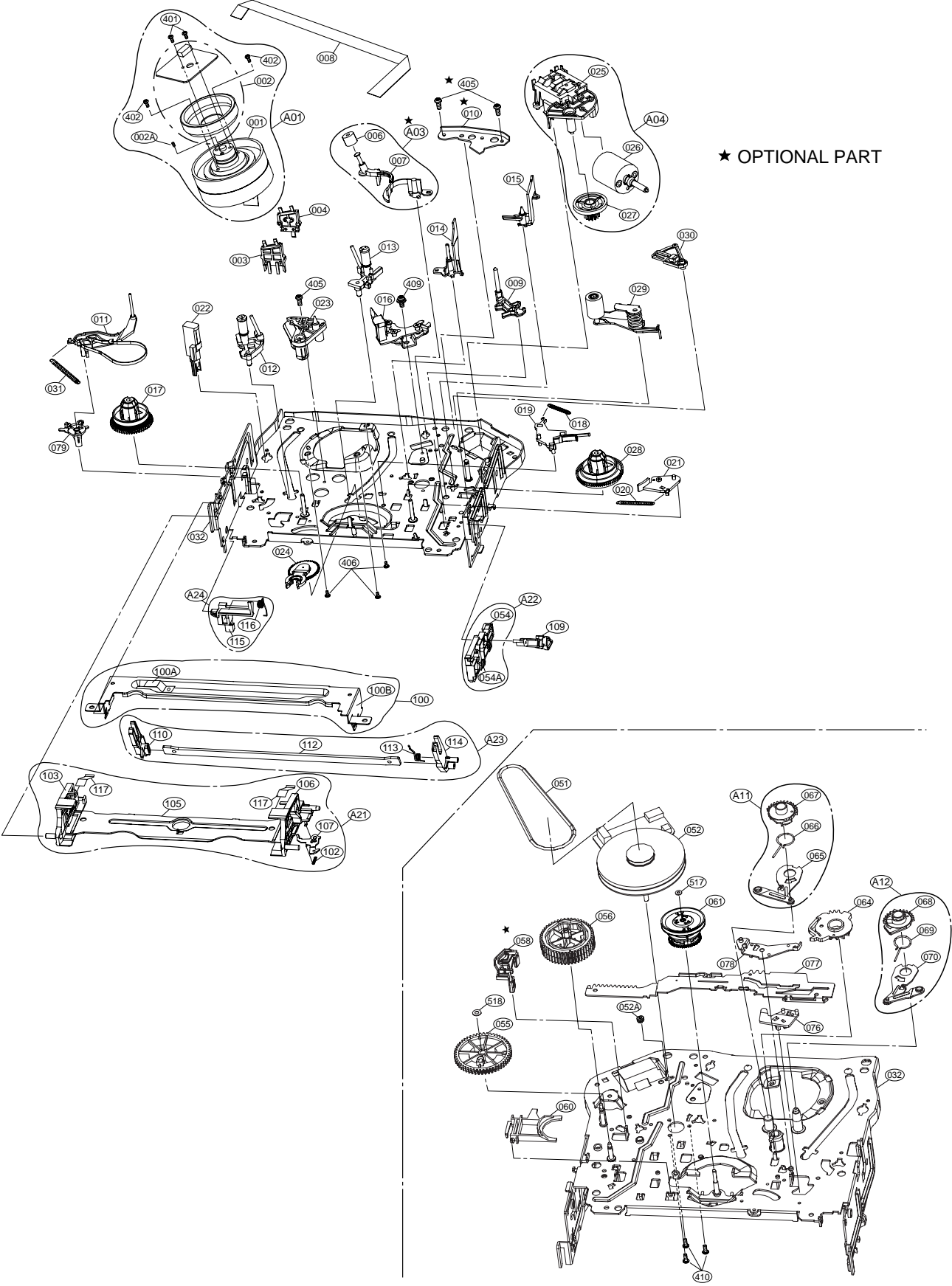
The instruction manual to be provided with this product will differ according to the destination.



6.1.2 FINAL ASSEMBLY <M2>



6.1.3 MECHANISM ASSEMBLY(VCR) <M4>



★ OPTIONAL PART

This exploded view diagram illustrates the assembly of a DVD player. The components are labeled as follows:

- Top Assembly (A01):** Includes the laser lens assembly (001, 002, 003) and the top cover (004).
- Front Panel (026):** The main front housing of the player.
- Internal Mechanism (A03):** The core assembly including the motor (008), gears (009, 016), and various screws (012, 012A, 018, 020).
- Base (011):** The bottom housing of the player.
- Other Components:** Includes the disc tray (010), the disc (017), the disc cover (013, 014), the disc cover hinge (015), the disc cover spring (016), the disc cover latch (018), the disc cover lock (019), the disc cover release button (020), and the disc cover release button spring (021).

The diagram shows the relative positions and assembly sequence of these parts, with dashed lines indicating the alignment and movement of components during assembly.

6.2 REPLACEMENT PARTS LIST

NSP:Not Service Parts

#	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	NSP

PACKING AND ACCESSORY ASSEMBLY <M1>					
	801	LG 3835RP0093G	INSTRUCTION ASSEMBLY	HR XV2EX	
	801	LG 3835RP0093J	INSTRUCTION ASSEMBLY	HR XV2EY	
	801	LG 3835RP0093Y	INSTRUCTION ASSEMBLY	HR XV2EL	
	801	LG 3835RP0093K	INSTRUCTION ASSEMBLY	HR XV11EX	
	802	LG 3890R H784W	BOX	VJW602CS NA3FJ SW3 A 1.118 1	
	803	LG 3920R E080A	PACKING,CASING	VC6000 S 0.02 150 EPS 4 1 1	
	804	LG 292 053B	BAG	SOFT(MIDI)	NSP
	808		BATTERY,MANGANESE	AAM UM 3 SEOTONG 1.5 V LOL 1	
	810	LG 6851R 0012B	CABLE ASSEMBLY	RF CABLE DOUBLE SHIELD PAL LGE	
	900	LG 6711R2P040A	REMOTE CONTROLLER ASSEMBLY	JVC COMBI VJW602CP JVC	

FINAL ASSEMBLY <M2>

▲	A43	LG 3721R F339B	PANEL ASSEMBLY,FRONT	HR XV2EX/XV2EY/XVE2L	
▲	A43	LG 3721R F339E	PANEL ASSEMBLY,FRONT	HR XV11EX	
▲	250	LG 3110R V004B	CASE	(COMBI 2) PRESS A288G HOLE 7EA	
	260	LG 3210R V004A	FRAME	MAIN MOLD	NSP
	274	LG 3300R X006A	PLATE	JVC(SILVER STAMPING)	
	276	LG 4940R Z084A	KNOB	PLAY HI 855M CLEAR VJW602CS	
	280	LG 3720R F717B	PANEL,VIDEO	HR XV2EX/XV2EY/XVE2L	NSP
	280	LG 3720R F717E	PANEL,VIDEO	HR XV11EX	NSP
	283	LG 3580R V059A	DOOR,CASE	CST (VCR) VJW602CS ABS 11255 B	
	284	LG 442 681A	SPRING	DOOR	
	285	LG 3581R T085B	DOOR ASSEMBLY	VCR VJW602CS TRAY	
▲	300	LG 6410RCHP02Z	POWER CORD	HIT 102/H03VH2 F (ST HS:80MM)	
	330	LG 3140R V004A	CHASSIS	MAIN PRESS	
	452	LG 353 051A	SCREW	SPECIAL	
	457	LG 353 051E	SCREW	SPECIAL (3X12)	
	459	LG 353 051G	SCREW,DRAWING	+ 2 D3.0 L8.0 MSWR3/FN TB ROUIN	
	465	LG 353 046K	SCREW	SPECIAL (3X10 B.K)	
	467	LG 353 051G	SCREW,DRAWING	+ 2 D3.0 L8.0 MSWR3/FN TB ROUIN	

MECHANISM ASSEMBLY (VCR) <M4>

	A00	LG 6721RF0751D	DECK ASSEMBLY,VIDEO	D35(M) DI (4HF, PAL, AHC(X), B	NSP
	A01	LG 6723R 0403C	DRUM(CIRC) ASSEMBLY	D35 6CH PAL (8P6C)	
	A04	LG 4811RF0038A	BRACKET ASSEMBLY	L/D(S)	
	A11	LG 4471R 0005A	GEAR ASSY	P3	
	A12	LG 4471R 0004A	GEAR ASSY	P2	
	A21	LG 4931R 0047A	HOLDER ASSY	CST	
	A22	LG 4471R 0006A	GEAR ASSY	RACK FIL	
	A23	LG 4261R 0023A	ARM ASSY	FIL	
	A24	LG 4510R 0046A	LEVER	ASSY SWITCH	
	001	LG 6723R 0306C	DRUM(CIRC) ASSEMBLY	SUB D35 6CH (8P6C)	NSP
	002	LG 4680R B005A	MOTOR(MECH)	DRUM I2OAL05 SEJIN SANKYO ICLE	
	002A	LG 5202R00002C	BRUSH,CARBON	ASSY D33 (TIP+2 SPRING) 1.4,	
	003	LG 4930R 0284A	HOLDER	FPC(6CH)	
	004	LG 5006R 0034A	CAP	FPC	
	008	LG 6850R HG18Z	CABLE,FLAT	P=1.25 FFC UL2896(0.05X0.8) 7	
	009	LG 4260R 0038A	ARM	T/UP(D35)	
	010	LG 4810R 0125A	BRACKET	CHASSIS	
	011	LG 4261R 0022A	ARM ASSY	TENSION(D35)	
	012	LG 3041R 0037A	BASE ASSY	P2	
	013	LG 3041R 0038A	BASE ASSY	P3	
	014	LG 3041R 0039A	BASE ASSY	P4	
	015	LG 5870R 0005A	OPENER	L/D(D35)	
	016	LG 3041R 0036A	BASE ASSEMBLY	A/C HEAD (ALPS)	
	017	LG 4408R 0003A	REEL	S	
	018	LG 4970R 0140A	SPRING	COIL RS D35	
	019	LG 4421R 0008A	BRAKE ASSEMBLY	RS	
	020	LG 4970R 0128A	SPRING	COIL D35 (TB)	
	021	LG 4421R 0006A	BRAKE ASSY	T	
	022	LG 6520D00002A	HEAD(CIRC)	D35 FE ST FE HEAD	
	023	LG 3040R 0057A	BASE	LOADING	
	024	LG 4261R 0024A	ARM ASSEMBLY	IDLER (H)	
	025	LG 4810R 0118A	BRACKET	L/D(S)	NSP
	026	LG 4680R D002A	MOTOR(MECH)	LOADING MDB2B66 SANKYO D35 ASP	NSP
	027	LG 4470R 0093A	GEAR	WHEEL	NSP
	028	LG 4408R 0004A	REEL	T	
	029	LG 4261R 0019C	ARM ASSEMBLY	DECK/MECHA PINCH	
	030	LG 4510R 0043A	LEVER	T/UP	
	031	LG 4970R 0123A	SPRING	COIL TENSION(D35)	
	032	LG 3141R 0040A	CHASSIS ASSY	D35	NSP

#	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	NSP
	051	LG 4400R 0005A	BELT	CAPSTAN	
	052	LG 4680R A007A	MOTOR(MECH)	CAPSTAN F2QVB06 SANKYO D35 ASR	
	052A	LG 4980R 0023A	SUPPORTER	CAPSTAN(D35)	
	054	LG 4470R 0100A	GEAR	RACK FIL	
	054A	LG 4970R 0124B	SPRING	COIL D35 (RACK FIL)	
	055	LG 4470R 0097A	GEAR	DRIVE(D35)	
	056	LG 4470R 0096A	GEAR	CAM(D35)	
	058	LG 4421R 0007A	BRAKE ASSY	CAPSTAN	
	060	LG 4510R 0040A	LEVER	FIR(D35)	
	061	LG 4265R 0005A	CLUTCH ASSEMBLY	D35 (M)	
	064	LG 4470R 0098A	GEAR	SECTOR(D35)	
	065	LG 4261R 0021A	ARM ASSY	P3	NSP
	066	LG 4970R 0122A	SPRING	COIL D35	NSP
	067	LG 4470R 0095A	GEAR	P3	NSP
	068	LG 4470R 0094A	GEAR	P2	NSP
	069	LG 4970R 0122A	SPRING	COIL D35	NSP
	070	LG 4261R 0020A	ARM ASSY	P2	NSP
	076	LG 4510R 0047A	LEVER	SPRING	
	077	LG 3300R M116A	PLATE	SLIDER	
	078	LG 4510R 0041A	LEVER	TENSION	
	079	LG 3040R 0056A	BASE	TENSION(D35)	
	100	LG 3301R M022A	PLATE ASSEMBLY	TOP	
	100A	LG 3300R 0184A	PLATE	GND	
	100B	LG 3300R M118A	PLATE	TOP(D35)	
	102	LG 4970R 0130A	SPRING	COIL D35 (STOPPER)	
	103	LG 4930R 0276A	HOLDER	SIDE(L)	NSP
	105	LG 4930R 0274A	HOLDER	CST	NSP
	106	LG 4930R 0275A	HOLDER	SIDE(R)	NSP
	107	LG 4510R 0044A	LEVER	STOPPER	NSP
	109	LG 5870R 0004A	OPENER	DOOR	
	110	LG 4260R 0035A	ARM	FIL(L)	NSP
	112	LG 3070R 0002A	BODY	FIL	NSP
	113	LG 4970R 0127A	SPRING	COIL D35 (F/L(R))	NSP
	114	LG 4260R 0036A	ARM	FIL(R)	NSP
	115	LG 4510R 0042A	LEVER	SWITCH	
	116	LG 4970R 0138A	SPRING	COIL D35 SWITCH	
	117	LG 3300R M137A	PLATE	SPRING CST	
	401	LG 1MEC0261518	SCREW MACHINE,PAN HEAD SPR W	+ D2.6 L4.5 MSWR3/FZY	
	402	LG 1MPC0261418	SCREW MACHINE,PAN HEAD	D 2.6 L 4.0 MSWR3/FZY	
	405	LG 1SZZR 0031B	SCREW,DRAWING	+ 1 D2.6 L5.8 SWRCH16A/FZY TAP	
	406	LG 1MEC0302018	PAN HEAD MACHINE SCREW SW +	D 3.0 L 6.0 MSWR3/FZY	
	409	LG 1SZZR 0032B	SCREW,DRAWING	+ 1 D2.6 L5.0 SWRCH18A/FZY TAP	
	410	LG 1APF0262218	SCREW TAP TITE(B),PAN HEAD	+ D2.6 L6.8 MSWR3/FZY	
	517	LG 1WZZR 0004D	WASHER	STOPPER	
	518	LG 1WZZR 0004A	WASHER	STOPPER	

MECHANISM ASSEMBLY (DVD) <MN>

A26	LG 6721RF0366A	DECK ASSEMBLY,VIDEO	DP5 4V(SHORT BODY COMBI) DI	NSP
A01	LG 4861R 0015A	CLAMP ASSEMBLY	DISC(DP 5) DI	
A02	LG 3041R M008B	BASE ASSEMBLY	MAIN, DP5 4V (SHORT BODY) DI	
A03	LG 3041R M005A	BASE ASSEMBLY	LEAD (DP5) DI	
001	LG 3300R 0547A	PLATE	CLAMP	NSP
002	LG 5016H 1016B	MAGNET	CLAMP(LDM R608,10*5,1*1.5T)	NSP
003	LG 4860R 0006A	CLAMP	UPPER	NSP
004	LG 4930R 0171A	HOLDER	CLAMP	
008	LG 4470R 0047B	GEAR	ASSY RACK (DI)	
009	LG 4470R 0053A	GEAR	MIDDLE	
010	LG 6850R GK22Z	CABLE,FLAT	P=1.0 FFC UL2896(0.05X0.65) 11	
011	LG 3210R 0036A	FRAME	UP/D	
011A	LG 6850R JW24Z	CABLE,FLAT	P=1.0 FFC UL2896(0.035X0.7) 23	
012	LG 5040R 0047A	RUBBER	REAR(E2,5040H 1054A),YAMAUCHI	
012A	LG 5040R 0047C	RUBBER	GREEN	
013	LG 4400R 0006A	BELT	LOADING	
014	LG 4470R 0055A	GEAR	PULLEY	
015	LG 6871RZ5130A	PWB(PCB) ASSEMBLY,OTHERS	SUB,L/D (DP 4V/DVD+VCR) DI	
016	LG 4470R 0050B	GEAR	ASSY FEED (DI)	
017	LG 4470R 0056A	GEAR	LOADING	
018	LG 4974R 0023A	GUIDE	UP/DOWN	
020	LG 3040R M001A	BASE	MAIN MOLD	NSP
026	LG 3390R 0014A	TRAY	DISK	
429	LG 1SZZR 0012A	SCREW,	B TITE	
430	LG 1SZZH 1003A	SCREW,	+ D2.0 6MM SWRCH16A/NIY 4.5MM	
431	LG 1SZZH 1007B	SCREW,DRAWING	+ D2.0 6MM SWRCH16A/ZNBK 4MM 1	
432	LG 1SZZR 0011A	SCREW,	MACHINE	

#	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	NSP
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POWER BOARD ASSEMBLY <01>

A48	LG 3501R 7431A	BOARD ASSEMBLY	VCR VJW602CS SERIES SMPS
BD01	LG 636 004C	FILTER(CIRC),EMC	BEAD CORE BFS3550R2FD8,R T/P
BD02	LG 636 004C	FILTER(CIRC),EMC	BEAD CORE BFS3550R2FD8,R T/P
△ BD10	S1WB/A/60 4101	DIODE	S1WBAG60(1A 600V) SHIDENKEN
△ C101	LG 624 088L	CAPACITOR,DRAWING	435D SUNIL ELECTRONICS 0.1UF/2
△ C102	LG 624 088L	CAPACITOR,DRAWING	435D SUNIL ELECTRONICS 0.1UF/2
C103	LG 624 082C	CAPACITOR,AL,ELECTROLYTIC	100MF/400V SHL SMPS S/Y
C105	LG 0CQ1031Y519	CAPACITOR,POLYESTER	0.01UF D 630V K PE NI TP
C106	LG 624 087S	CAPACITOR,FIXED CERAMIC(High d)	47PF D 1KV 10% TR B(Y5P)
C107	QETC1HM 105Z	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)
C108	LG 0CE3366K638	CAPACITOR,FIXED ELECTROLYTIC	33UF SMS,SG 50V 20% FM5 TP 5
C109	LG 0CN223AK948	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S
△ C110	LG 0CG1020U630	CAPACITOR,SEMI CERAMIC	1000PF 400V M E(Z5U) R
C111	LG 0CG2220U630	CAPACITOR,SEMI CERAMIC	2200 PF 400V M E R (NK,AD,SD)
△ C117	LG 0CE337E630	CAPACITOR,AL,ELECTROLYTIC	330UF KMG 50V M FM5 BULK
C123	LG 0CE477B630	CAPACITOR,AL,ELECTROLYTIC	470UF KME TYPE 25V M FM5 BULK
C126	LG 0CE227B638	CAPACITOR,FIXED ELECTROLYTIC	220UF SMS,SG 25V 20% FM5 TP 5
C127	LG 0CE108B630	CAPACITOR,FIXED ELECTROLYTIC	1000UF KME 16V M FM5 BULK
C128	LG 0CE3376D638	CAPACITOR,ELECTROLYTIC	330UF SMS 10V M FM5 TP5
C129	LG 0CE228B630	CAPACITOR,FIXED ELECTROLYTIC	2200UF KME TYPE 16V 20% FM5 BU
C131	LG 624 082H	CAPACITOR	CE 1000UF/10V SHL(10*12.5)T/P
C132	LG 624 085D	CAPACITOR	CE 47UF/50V KME (SMPS)
C133	LG 0CQ1042K409	CAPACITOR,FIXED FILM	0.1UF S 50V J PE TP
C151	LG 0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5
C152	LG 0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5
C153	QET61CM 106Z	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)
C154	QET61CM 107Z	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)
C155	QET61CM 106Z	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)
C156	LG 0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5
C161	LG 0CE4763F638	CAPACITOR,ELECTROLYTIC	47M SRE 16V M FM5 TP(5)
C163	LG 624 087H	CAPACITOR	HIGH VOL 220PF/1KV CERAMIC
D101	LG 0DD010009CA	DIODE,RECTIFIER	EG01CW(R FORM 5MM) TP SANKEN
D101	ERA22 10	DIODE,RECTIFIERS	ERA22 10 KFLB,TP ,R T/P,FUJI
D102	LG 0DD010009AC	DIODE	EUJ01W(R FORM) TP SANKEN
D102	LG 0DR104009BA	DIODE,RECTIFIER	RL104F TP RECTRON NON 400V 1A
D106	LG 0DD010009AC	DIODE	EUJ01W(R FORM) TP SANKEN
D106	LG 0DR104009BA	DIODE,RECTIFIER	RL104F TP RECTRON NON 400V 1A
D110	LG 0DR302000AB	DIODE,RECTIFIER	HER302 BK RECTRON DO201AD 100V
D111	LG 0DR158220AA	DIODE,RECTIFIER	1N5822 BK RECTRON DO201AD 40V
D112	LG 0DR158220AA	DIODE,RECTIFIER	1N5822 BK RECTRON DO201AD 40V
D113	LG 0DD010009AC	DIODE	EUJ01W(R FORM) TP SANKEN
D113	LG 0DR104009BA	DIODE,RECTIFIER	RL104F TP RECTRON NON 400V 1A
D114	LG 0DR104009AB	DIODE,RECTIFIER	RL104 R. TP GULF SEMICONDUCTOR
D115	LG 0DR104009AB	DIODE,RECTIFIER	RL104 R. TP GULF SEMICONDUCTOR
D117	LG 0DR104009AB	DIODE,RECTIFIER	RL104 R. TP GULF SEMICONDUCTOR
D121	1SS133 T2	DIODE,SWITCHING	1SS133 DETECT,SW TP
△ F101	LG 0FS1601B51D	FUSE,SLOW BLOW	1600MA 250 V 5.2X20 CYGL KSJ
FH01	LG 586 008B	HOLDER	FUSE CLIP TP SINSUNG
FH02	LG 586 008B	HOLDER	FUSE CLIP TP SINSUNG
△ IC101	LG 0IPMGFF001A	IC,POWER MANAGEMENT	ICE2B265 INFINEON 8 DIP ST SMP
△ IC102	PZ0IL187000B	SENSOR	LTV 817B, PHOTO COUPLER(LITEON)
IC103	LG 0IKE431000A	IC,KEC	KIA431 3 PIN TP
IC151	KIA78R08P1	IC,POWER MANAGEMENT	KIA78R08P1 CUJ KEC 4P TO 220IS
IC152	LG 0IPMGKE022A	IC,POWER MANAGEMENT	KIA278R33P1 KEC 4P TO 220 ST 3
△ L102	LG 616 145N	FILTER(CIRC),DRAWING	LFS2020V4 04350B SAMWAH TECOM
L122	LG 633 088G	COIL,CHOKE	CHOCK(22MH) 5MM TOKO TP
L123	LG 633 088G	COIL,CHOKE	CHOCK(22MH) 5MM TOKO TP
L124	LG 633 088G	COIL,CHOKE	CHOCK(22MH) 5MM TOKO TP
Q153	LG 0TR220309AF	TRANSISTOR	SRA2203 TP AUK T092 22K,22K
Q154	LG 0TR534309BA	TRANSISTOR	2SC5343 L TP AUK T092
Q155	LG 0TR141409AA	TRANSISTOR	KTD1414(TO220S) CUTING TP KEC
Q156	LG 0TR320509AB	TRANSISTOR	KTC3205 TP Y (KTC2236A)KEC
Q161	LG 0TR126809BA	TRANSISTOR,BIPOLARS	KTA1268 BL TP KEC
Q162	LG 0TR534309BA	TRANSISTOR	2SC5343 L TP AUK T092
Q173	LG 0TR534309BA	TRANSISTOR	2SC5343 L TP AUK T092
R100	QRE121J 155Y	RESISTOR,FIXED CARBON FILM	1.5M OHM 1/2 W 5.00% MF10
R101	LG 614 007A	RESISTOR	27/2W CEMENT SMPS V
R104	LR0S5602K619	RESISTOR,FIXED METAL OXIDE FIL	56K OHM 2 W 5.00% TR
R105	QRE141J 220Y	RESISTOR,FIXED CARBON FILM	22 OHM 1/6 W 5% TA26
R106	QRE141J 220Y	RESISTOR,FIXED CARBON FILM	22 OHM 1/6 W 5% TA26
R107	LR0S0350K619	RESISTOR,FIXED METAL OXIDE FIL	0.35 OHM 2 W 5.00% TR
R110	QRD161J 472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26
R112	QRD161J 221	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26
R113	QRD161J 222Y	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5% TA26
R114	QRE141J 102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26
R115	LG 0RN3301F408	RESISTOR,FIXED METAL FILM	3.3K OHM 1/6 W 1% TA26
R116	LG 0RN2071F408	RESISTOR,FIXED METAL FILM	2.7K OHM 1/6 W 1% TA26
R117	QRD161J 271Y	RESISTOR,FIXED CARBON FILM	270 OHM 1/6 W 5% TA26
R119	QRD161J 104Y	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26

#	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	NSP
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R130	QRD161J 104Y	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26
R131	QRE121J 224Y	RESISTOR,FIXED CARBON FILM	220K OHM 1/6 W 5% TA26
R132	QRE121J 224Y	RESISTOR,FIXED CARBON FILM	220K OHM 1/6 W 5% TA26
R151	QRD161J 562Y	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5% TA26
R152	QRD161J 562Y	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5% TA26
R153	QRD161J 472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26
R154	QRE141J 102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26
R155	QRD161J 183Y	RESISTOR,FIXED CARBON FILM	18K OHM 1/6 W 5% TA26
R156	QRE141J 103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5% TA26
R157	QRE141J 102Y	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26
R158	QRE141J 331Y	RESISTOR,FIXED CARBON FILM	330 OHM 1/6 W 5% TA26
R159	QRE141J 331Y	RESISTOR,FIXED CARBON FILM	330 OHM 1/6 W 5% TA26
R161	QRD161J 223Y	RESISTOR,FIXED CARBON FILM	22K OHM 1/6 W 5% TA26
R164	QRD161J 472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26
R170	QRE141J 103Y	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5% TA26
R171	QRD161J 472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26
R172	QRD161J 472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26
R173	QRD161J 472Y	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26
△ V101	LG 656 004C	VARISTOR,DRAWING	SVC681D 10A SAMHWA 4.0 CUT
△ T101	LG 6170RNGW12D	TRANSFORMER	
ZD10	MTZ13B	DIODE,ZENER	MTZ13B TP ROHM K
ZD10	UZ30BSB	DIODE,ZENERS	UZ 30BSB 26MM PYUNG CHANG TP D

VCR BOARD ASSEMBLY <03>

A46	LG 3501R 5511B	BOARD ASSEMBLY	VCR VJW602CP,NA3GU (DI)
323	LG 3111R 0089B	CASE ASSY	PRE AMP (PBBS SH)
BC91	LG 636 004C	FILTER(CIRC),EMC	BEAD CORE BFS3550R2FD8,R T/P
BC92	LG 636 004C	FILTER(CIRC),EMC	BEAD CORE BFS3550R2FD8,R T/P
C301	QET61CM 106Z	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)
C302	LG 0CH1103K512	CAPA,CHIP CERAMIC ML,H,D F/S	0.0100UF 50V K B 1608 R/T/P
C303	LG 0CE3344K638	CAPACITOR,ELECTROLYTIC	0.33M SRA 50V M FM5 TP(5)
C304	LG 0CH1103K512	CAPA,CHIP CERAMIC ML,H,D F/S	0.0100UF 50V K B 1608 R/T/P
C305	LG 0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5
C306	LG 0CH1182K562	CAPACITOR,CHIP,CERAMIC ML,HD	1800P 50V K X7R 1.6X0.8 R/T/P
C307	LG 0CH1152K562	CAPACITOR,FIXED CERAMIC(Temp.c	1500PF 50V 10% X7R(X) 1608 R/T
C308	LG 0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5
C309	QET61CM 226	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)
C310	QET61CM 226	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)
C311	LG 0CQ2232L559	CAPACITOR,POLYESTER	0.022UF S 63V K PP NI TP5
C312	LG 0CQ1032K409	CAPACITOR,POLYESTER(MYLAR)	0.01UF S 50V J PE TP
C313	LG 0CQ3332K409	CAPACITOR,FIXED FILM	0.033UF S 50V J PE TP
C314	QET61CM 476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)
C315	QET61CM 106Z	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)
C316	LG 0CH1182K562	CAPACITOR,CHIP,CERAMIC ML,HD	1800P 50V K X7R 1.6X0.8 R/T/P
C317	QET61CM 106Z	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)
C318	QET61CM 106Z	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)
C319	QET61CM 106Z	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)
C320	LG 0CH4151K412	CAPA,CHIP CERAMIC ML,T,C F/S	0.0100UF 50V K B 1608 R/T/P
C321	LG 0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(Y5P) 1608 R/T/P
C322	LG 0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(Y5P) 1608 R/T/P
C323	LG 0CH4470K412	CAPA,CHIP CERAMIC ML,T,C F/S	47P 50V J COG 1.6X0.8 R/T/P
C324	LG 0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(Y5P) 1608 R/T/P
C325	LG 0CH1103K512	CAPA,CHIP CERAMIC ML,H,D F/S	0.0100UF 50V K B 1608 R/T/P
C326	QETC1HM 105Z	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)
C327	LG 0CE2253K636	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SRE,SE 50V 20% FM5 BP(D)
C328	QET61CM 106Z	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)
C329	LG 0CH1103K512	CAPA,CHIP CERAMIC ML,H,D F/S	0.0100UF 50V K B 1608 R/T/P
C330	LG 0CH4470K412	CAPA,CHIP CERAMIC ML,T,C F/S	47P 50V J COG 1.6X0.8 R/T/P
C331	LG 0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(Y5P) 1608 R/T/P
C332	LG 0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(Y5P) 1608 R/T/P
C335	LG 0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(Y5P) 1608 R/T/P
C336	LG 0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(Y5P) 1608 R/T/P
C337	LG 0CE1044K638	CAPACITOR,ELECTROLYTIC	0.1M SRA 50V M FM5 TP(5)
C338	LG 0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(Y5P) 1608 R/T/P
C339	QET1FM 335Z	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5
C340	QET61CM 106Z	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)
C341	LG 0CH1103K512	CAPA,CHIP CERAMIC ML,H,D F/S	0.0100UF 50V K B 1608 R/T/P
C342	LG 0CH4331K412	CAPACITOR,CHIP,CERAMIC ML,TC	330P 50V J COG 1.6X0.8 R/T/P
C343	LG 0CE4764C638	CAPACITOR,ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)
C344	LG 0CH1473H942	CAPA,CHIP CERAMIC ML,H,D F/S	0.0470UF 25V Z Y5V(F) 1608 R/T
C346	LG 0CH1103K512	CAPA,CHIP CERAMIC ML,H,D F/S	0.0100UF 50V K B 1608 R/T/P
C347	LG 0CH1103K512	CAPA,CHIP CERAMIC ML,H,D F/S	0.0100UF 50V K B 1608 R/T/P
C348	QETC1HM 105Z	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)
C350	LG 0CE4764C638	CAPACITOR,ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)
C351	LG 0CH1103K512	CAPA,CHIP CERAMIC ML,H,D F/S	0.0100UF 50V K B 1608 R/T/P
C352	LG 0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(Y5P) 1608 R/T/P
C353	QET1FM 335Z	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5
C354	LG 0CH1473H942	CAPA,CHIP CERAMIC ML,H,D F/S	0.0470UF 25V Z Y5V(F) 1608 R/T
C355	LG 0CE2253K636	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SRE,SE 50V 20% FM5 BP(D)

NSP:Not Service Parts

#	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	NSP	#	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	NSP
C356	LG 0CH1333K562		CAPACITOR,CHIP/CERAMIC ML HD	0.033UF 50V K X7R(X) 1508 R/TP		C710	LG 0CE4754K638		CAPACITOR, FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
C357	LG 0CH1223K942		CAPACITOR,CHIP/CERAMIC ML HD	0.022UF 50V Z Y5V(F) 1508 R/TP		C712	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP	
C358	QETC1HM 105Z		CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)		C713	LG 0CH4560K412		CAPA,CHIP CERAMIC ML T.C F/S	56P 50V J COG 1.6X0.8 R/TP	
C359	LG 0CE4754K638		CAPACITOR, FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5		C714	LG 0CH4560K412		CAPA,CHIP CERAMIC ML T.C F/S	56P 50V J COG 1.6X0.8 R/TP	
C360	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP		C716	LG 0CH4100K412		CAPACITOR,CHIP/CERAMIC ML TC	10PF 50V J NPO 1608 R/TP	
C361	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP		C717	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP	
C363	QETC1HM 105Z		CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)		C718	LG 0CE4764C638		CAPACITOR,ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)	
C364	LG 0CH1223K942		CAPACITOR,CHIP/CERAMIC ML HD	0.022UF 50V Z Y5V(F) 1508 R/TP		C719	QET61CM 107Z		CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
C365	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP		C720	LG 0CH1152K512		CAPA,CHIP CERAMIC ML H.D F/S	1500PF 50V K B 1608 R/TP	
C366	LG 0CE4764C638		CAPACITOR,ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)		C721	LG 0CH1392K512		CAPACITOR, FIXED CERAMIC(Temp.c	3900PF 50V 10% B(5YP) 1608 R/T	
C367	LG 0CH1104K512		CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP		C722	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP	
C368	LG 0CH1104K512		CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP		C723	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP	
C369	LG 0CH1104K512		CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP		C726	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP	
C370	LG 0CH1104K512		CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP		C727	LG 0CE4764C638		CAPACITOR,ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)	
C371	LG 0CH1104K512		CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP		C728	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP	
C373	QETC1HM 105Z		CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)		C729	QET1HM 335Z		CAPACITOR, FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	
C374	QETC1HM 105Z		CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)		C730	LG 0CH4150K412		CAPA,CHIP CERAMIC ML T.C F/S	15P 50V J COG 1.6X0.8 R/TP	
C351	LG 0CH4470K412		CAPA,CHIP CERAMIC ML T.C F/S	47P 50V J COG 1.6X0.8 R/TP		C731	LG 0CH4080K112		CAPACITOR, FIXED CERAMIC(High d	9PF 50V 0.5 pF NPO 1608 R/TP	
C500	LG 0CE4775C638		CAPACITOR, FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5		C732	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
C501	LG 0CH1104K512		CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP		C751	LG 0CE4764C638		CAPACITOR,ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)	
C502	QET61CM 476		CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)		C752	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP	
C503	LG 0CE2274C638		CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)		C755	LG 0CE4754K638		CAPACITOR, FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
C504	LG 0CE2274C638		CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)		C756	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
C505	QET61CM 476		CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)		C7M1	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP	
C506	LG 0CH1223K942		CAPACITOR,CHIP/CERAMIC ML HD	0.022UF 50V Z Y5V(F) 1508 R/TP		C7M2	LG 0CE4764C638		CAPACITOR,ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)	
C507	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP		C7M3	NDC31HJ 270X		CAPACITOR,CHIP/CERAMIC ML TC	27PF 50V J NPO 1608 R/TP	
C508	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP		C7M6	NDC31HJ 270X		CAPACITOR,CHIP/CERAMIC ML TC	27PF 50V J NPO 1608 R/TP	
C509	NDC31HJ 220X		CAPA,CHIP CERAMIC ML T.C F/S	22P 50V J COG 1.6X0.8 R/TP		C7V1	LG 0CE4764C638		CAPACITOR,ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)	
C511	LG 0CH1104K512		CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP		C7V2	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP	
C512	LG 0CH1102K512		CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T		C7V3	QETC1HM 105Z		CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
C513	LG 0CH1102K512		CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T		C7V4	LG 0CH1473H942		CAPA,CHIP CERAMIC ML H.D F/S	0.0470UF 25V Z Y5V(F) 1608 R/T	
C514	LG 0CC1500K415		CAPACITOR,CERAMIC(TEMP COMP)	15P 50V JNPO TS		C7V5	LG 0CH1473H942		CAPA,CHIP CERAMIC ML H.D F/S	0.0470UF 25V Z Y5V(F) 1608 R/T	
C515	LG 0CC2000K415		CAPACITOR, FIXED CERAMIC(Temp.c	20PF D 50V 5% NPO TR		C802	LG 0CH1105D942		CAPACITOR,CHIP/CERAMIC ML HD	1UF 10V Z Y5V(F) 1508 R/TP	
C516	LG 0CH1223K942		CAPACITOR,CHIP/CERAMIC ML HD	0.022UF 50V Z Y5V(F) 1508 R/TP		C803	LG 0CH1105D942		CAPACITOR,CHIP/CERAMIC ML HD	1UF 10V Z Y5V(F) 1508 R/TP	
C517	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		C804	LG 0CH1105D942		CAPACITOR,CHIP/CERAMIC ML HD	1UF 10V Z Y5V(F) 1508 R/TP	
C518	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP		C805	LG 0CH1105D942		CAPACITOR,CHIP/CERAMIC ML HD	1UF 10V Z Y5V(F) 1508 R/TP	
C519	LG 0CH1104K512		CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP		C811	LG 0CH1104K512		CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
C520	LG 0CH1102K512		CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T		C813	LG 0CH1682K512		CAPACITOR, FIXED CERAMIC(Temp.c	6800PF 50V 10% B(5YP) 1608 R/T	
C521	LG 0CH1102K512		CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T		C819	LG 0CH1682K512		CAPACITOR, FIXED CERAMIC(Temp.c	6800PF 50V 10% B(5YP) 1608 R/T	
C523	QETC1HM 225Z		CAPACITOR, FIXED ELECTROLYTIC	2.2UF SRA,SS 50V 20% FM5 TP 5		C821	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP	
C524	QET61CM 476		CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)		C823	LG 0CH1104K512		CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
C525	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		C824	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP	
C526	LG 0CE4764J638		CAPACITOR,AL.ELECTROLYTIC	47UF SRA,SS 35V M FM5 TP 5		C826	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP	
C527	NDC31HJ 221X		CAPACITOR,CHIP/CERAMIC ML TC	220P 50V J COG 1.6X0.8 R/TP		C827	LG 0CH1223K942		CAPACITOR,CHIP/CERAMIC ML HD	0.022UF 50V Z Y5V(F) 1508 R/TP	
C533	LG 0CH1102K512		CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T		C831	LG 0CH1105D942		CAPACITOR,CHIP/CERAMIC ML HD	1UF 10V Z Y5V(F) 1508 R/TP	
C534	LG 0CE4754K638		CAPACITOR, FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5		C832	LG 0CH1105D942		CAPACITOR,CHIP/CERAMIC ML HD	1UF 10V Z Y5V(F) 1508 R/TP	
C535	LG 0CE4754K638		CAPACITOR, FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5		C868	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
C543	LG 0CH1222K512		CAPACITOR,CHIP/CERAMIC ML HD	2200PF 50V K B 1608 R/TP		C870	LG 0CH1105D942		CAPACITOR,CHIP/CERAMIC ML HD	1UF 10V Z Y5V(F) 1508 R/TP	
C544	LG 0CQ4732K409		CAPACITOR, FIXED FILM	0.047UF S 50V J PE TP		C871	LG 0CH1105D942		CAPACITOR,CHIP/CERAMIC ML HD	1UF 10V Z Y5V(F) 1508 R/TP	
C545	LG 0CH1333K562		CAPACITOR,CHIP/CERAMIC ML HD	0.033UF 50V K X7R(X) 1508 R/TP		C872	LG 0CH4470K412		CAPA,CHIP CERAMIC ML T.C F/S	47P 50V J COG 1.6X0.8 R/TP	
C546	LG 0CE4764J638		CAPACITOR,AL.ELECTROLYTIC	47UF SRA,SS 35V M FM5 TP 5		C873	LG 0CH4470K412		CAPA,CHIP CERAMIC ML T.C F/S	47P 50V J COG 1.6X0.8 R/TP	
C547	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP		C884	LG 0CH1105D942		CAPACITOR,CHIP/CERAMIC ML HD	1UF 10V Z Y5V(F) 1508 R/TP	
C551	LG 0CQ3332K409		CAPACITOR, FIXED FILM	0.033UF S 50V J PE TP		C885	LG 0CH1105D942		CAPACITOR,CHIP/CERAMIC ML HD	1UF 10V Z Y5V(F) 1508 R/TP	
C552	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP		C889	LG 0CH1105D942		CAPACITOR,CHIP/CERAMIC ML HD	1UF 10V Z Y5V(F) 1508 R/TP	
C551	LG 0CE2274C638		CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)		C890	LG 0CH1105D942		CAPACITOR,CHIP/CERAMIC ML HD	1UF 10V Z Y5V(F) 1508 R/TP	
C564	LG 0CH1102K512		CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T		C907	LG 0CH1102K512		CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
C567	LG 0CH1102K512		CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T		C908	LG 0CH1102K512		CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
C570	LG 0CH4150K412		CAPA,CHIP CERAMIC ML T.C F/S	15P 50V J COG 1.6X0.8 R/TP		C909	LG 0CH1102K512		CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
C571	LG 0CH4150K412		CAPA,CHIP CERAMIC ML T.C F/S	15P 50V J COG 1.6X0.8 R/TP		C910	LG 0CH1102K512		CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
C575	LG 0CH1102K512		CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T		C915	LG 0CH1102K512		CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
C576	NDC31HJ 270X		CAPACITOR,CHIP/CERAMIC ML TC	27PF 50V J NPO 1608 R/TP		C916	LG 0CH1102K512		CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
C577	LG 0CH1223K942		CAPACITOR,CHIP/CERAMIC ML HD	0.022UF 50V Z Y5V(F) 1508 R/TP		C921	LG 0CH1102K512		CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
C578	LG 0CH1222K512		CAPACITOR,CHIP/CERAMIC ML HD	2200PF 50V K B 1608 R/TP		C923	LG 0CH1102K512		CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
C581	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP		C931	LG 0CE4776C638		CAPACITOR,AL.ELECTROLYTIC	470U SMS 6.3V M FM5 TP(5)	
C582	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP		C932	LG 0CE4776C638		CAPACITOR,AL.ELECTROLYTIC	470U SMS 6.3V M FM5 TP(5)	
C583	LG 0CH1104K512		CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP		C933	LG 0CE4776C638		CAPACITOR,AL.ELECTROLYTIC	470U SMS 6.3V M FM5 TP(5)	
C589	LG 0CH1223K942		CAPACITOR,CHIP/CERAMIC ML HD	0.022UF 50V Z Y5V(F) 1508 R/TP		C934	LG 0CE10740C638		CAPACITOR, FIXED ELECTROLYTIC	100UF SRA,SS 6.3V 20% FM5 TP 5	
C590	LG 0CH1104K512		CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP		C938	LG 0CH1104K512		CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
C596	LG 0CH1104K512		CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP		C939	LG 0CH1104K512		CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
C5A4	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP		C941	LG 0CH1104K512		CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
C5A5	QETC1HM 105Z		CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)		C942	LG 0CH1104K512		CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
C5F1	LG 0CH1102K512		CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T		C943	LG 0CE4776C638		CAPACITOR,AL.ELECTROLYTIC	470U SMS 6.3V M FM5 TP(5)	
C5G1	LG 0CE1086C638		CAPACITOR, FIXED ELECTROLYTIC	1000000000 PF SMS,SG 6.3V M FM		C944	LG 0CE4776C638		CAPACITOR,AL.ELECTROLYTIC	470U SMS 6.3V M FM5 TP(5)	
C5K1	LG 0CH1104K512		CAPACITOR, FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP		C945	LG 0CE4776C638		CAPACITOR,AL.ELECTROLYTIC	470U SMS 6.3V M FM5 TP(5)	
C5L2	LG 0CH1102K512		CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T		C946	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
C5L3	LG 0CH1102K512		CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T		C947	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
C5P1	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP		C948	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
C5P2	LG 0CH1103K512		CAPA,CHIP CERAMIC ML H.D F/S	0.0100UF 50V K B 1608 R/TP		C950	LG 0CH1102K512		CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
C5S1	LG 0CH4430K416		CAPACITOR, FIXED CERAMIC(High d	43PF 50V J NPO 2012 R/TP		C952	LG 0CH1102K512		CAPACITOR, FIXED CERAMIC(Temp.c	1000PF 50V 10% B(5YP) 1608 R/T	
C5S3	LG 0CH1223K942		CAPACITOR,CHIP/CERAMIC ML HD	0.022UF 50							

NSP:Not Service Parts

# Δ	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	NSP	# Δ	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	NSP
	D902	1SS133 T2	DIODE,SWITCHING	1SS133 DETECT,SW TP			Q503	LG 0TR127309AA	TRANSISTOR	KTA1273 TP Y (KTA966A)KEC	
	E550	LG 4931R 0050C	HOLDER ASSEMBLY	END (DI)			Q504	LG 0TR387509AC	TRANSISTOR	CHIP KTC3875S GR T1(ALG) KEC	
	E550	LG 4931R 0050C	HOLDER ASSEMBLY	END (DI)			Q505	KTA1504/G/ X	TRANSISTOR	KTA1504 GR T1(ASG) CHIP KEC	
	F901	LG 6200HJC901A	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2 5K			Q514	KRC103S X	TRANSISTOR	CHIP KRC103S T1(NC)22 22 KEC	
	F902	LG 6200HJC901A	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2 5K			Q515	KRC103S X	TRANSISTOR	CHIP KRC103S T1(NC)22 22 KEC	
	F903	LG 6200HJC901A	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2 5K			Q5L1	LG 0TR387509AC	TRANSISTOR	CHIP KTC3875S GR T1(ALG) KEC	
	F904	LG 6200HJC901A	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2 5K			Q5L2	LG 0TR387509AC	TRANSISTOR	CHIP KTC3875S GR T1(ALG) KEC	
	F905	LG 6200HJC901B	FILTER(CIRC),EMC	CFI06B1H471MF SAMHWA TP 2 5K			Q5S1	LG 0TR387509AC	TRANSISTOR	CHIP KTC3875S GR T1(ALG) KEC	
	FL301	LG 633 032K	COIL,IFT	BIAC OSC, 1CHIP 5V(KS 75M) KIVAN			Q705	LG 0TR320509AB	TRANSISTOR	KTC3205 TP Y (KTC2236A)KEC	
	IC501	LG 01MCRH028A	IC,MICRO CONTROLLER	HD6432197SA21F HITACHI 112PIN			Q801	LG 0TR387509AC	TRANSISTOR	CHIP KTC3875S GR T1(ALG) KEC	
	IC503	S524A60X51 DCB0	IC,SAMSUNG ELECTRONICS	S524A60X51 SCT0 8P SOP TP EEP			Q802	LG 0TR387509AC	TRANSISTOR	CHIP KTC3875S GR T1(ALG) KEC	
	IC504	LG 01KE703100A	IC,KEC	KIA7031P 3P 3.1V RESET(TAPING)			Q803	KTA1504/G/ X	TRANSISTOR	KTA1504 GR T1(ASG) CHIP KEC	
	IC504	LG 01SS753100A	IC,SAMSUNG ELECTRONICS	KAT7531Z TO 92 TP 3.1V RESET			Q805	KTA1504/G/ X	TRANSISTOR	KTA1504 GR T1(ASG) CHIP KEC	
	IC505	LG 01KE704200B	IC,KEC	KIA7042P 3P 4.2V RESET(TAPING)			Q806	KTA1504/G/ X	TRANSISTOR	KTA1504 GR T1(ASG) CHIP KEC	
	IC5F1	LG 01LNRPY001B	IC,LINEAR	PT8955 PTC 24PIN SOP R/TP LED			Q901	LG 0TR387509AC	TRANSISTOR	CHIP KTC3875S GR T1(ALG) KEC	
	IC751	LG 01IT341700B	IC,ITT	MSP3417D QG QFP44 BK NICAM+A2			Q902	LG 0TR387509AC	TRANSISTOR	CHIP KTC3875S GR T1(ALG) KEC	
	IC751	MSP3417GQG88V3X	IC,ITT	MSP3417G QG B8 V3 44 QFP TRAY			Q903	LG 0TR387509AC	TRANSISTOR	CHIP KTC3875S GR T1(ALG) KEC	
	IC7V1	LG 01LNRMN001B	IC,LINEAR	SDA5650X GEG MICRONAS 20PIN SO			R301	NRSA63J 123X	RESISTOR,METAL GLAZED(CHIP)	12K OHM 1 / 16 W 1608 5.00% D	
	IC801	LG 01PH960500A	IC,PHILIPS	TD49605H QFP44 BK HIFI AMP+HIF			R302	NRSA6AD 334W	RESISTOR,METAL GLAZED(CHIP)	330K OHM 1 / 16 W 1608 5.00% D	
	IC802	MM1443XJ X	IC,PERIPHERALS	MM1443XJBE MITSUMI 34PIN SSOP			R303	NRSA63J 221X	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
	IC802	MM1232XFC X	IC,PERIPHERALS	MM1232XFCB MITSUMI 16PIN SOP R			R304	NRSA6AD 473W	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
	IC901	LG 01PRPMT006A	IC,PERIPHERALS	MM1225XFCB MITSUMI 8PIN SOP R/			R305	NRSA63J 223X	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
	IC901	LG 01PRPMT006A	IC,PERIPHERALS	MM1225XFCB MITSUMI 8PIN SOP R/			R307	NRSA63J 752X	RESISTOR,METAL GLAZED(CHIP)	7.5K OHM 1 / 16 W 1608 5.00% D	
	IC901	LG 01PRPMT006A	IC,PERIPHERALS	MM1225XFCB MITSUMI 8PIN SOP R/			R308	NRSA63J 752X	RESISTOR,METAL GLAZED(CHIP)	7.5K OHM 1 / 16 W 1608 5.00% D	
	JK5L1	LG 6612RIV005D	JACK,RCA	DPAM 0152 DOOWON 3PIN YL/WH/RD			R309	NRSA6AD 470W	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
	JK901	LG 6612J00025G	JACK,RCA	KCA/DIN 38(19PIN)SILVER YUQIU			R310	NRSA63J 152X	RESISTOR,METAL GLAZED(CHIP)	1.5K OHM 1 / 16 W 1608 5.00% D	
	L301	LG 0LR0102J0N5	INDUCTOR,RADIAL LEAD	10UH 5% TP 3X5 TR5			R311	NRSA6AD 272W	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
	L301	LG 0LR0102K0P5	INDUCTOR,RADIAL LEAD	L7.5N OEL 10UH 10% TP 4.8X4.0			R312	NRSA63J 472X	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
	L301	LG 0LR0102K0P5	INDUCTOR,RADIAL LEAD	L7.5N OEL 10UH 10% TP 4.8X4.0			R313	NRSA6AD 2R2W	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
	L302	LG 0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP			R314	NRSA6AD 2R2W	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
	L303	LG 0LA1800K018	INDUCTOR AXIAL LEAD	180M K 2.3X3.4 L5 TP			R315	NRSA63J 222X	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
	L304	LG 0LR0102J0N5	INDUCTOR,RADIAL LEAD	10UH 5% TP 3X5 TR5			R316	NRSA6AD 272W	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
	L304	LG 0LR0102K0P5	INDUCTOR,RADIAL LEAD	L7.5N OEL 10UH 10% TP 4.8X4.0			R317	NRSA63J 472X	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
	L304	LG 0LR0102K0P5	INDUCTOR,RADIAL LEAD	L7.5N OEL 10UH 10% TP 4.8X4.0			R318	NRSA6AD 473W	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
	L305	LG 0LA0392K018	INDUCTOR AXIAL LEAD	39M K 2.3X3.4 L5 TP			R319	NRSA63J 123X	RESISTOR,METAL GLAZED(CHIP)	12K OHM 1 / 16 W 1608 5.00% D	
	L306	LG 0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP			R320	NRSA63J 682X	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
	L307	LG 0LA0122K018	INDUCTOR AXIAL LEAD	12M K 2.3X3.4 L5 TP			R322	NRSA6AD 823W	RESISTOR,METAL GLAZED(CHIP)	82K OHM 1 / 16 W 1608 5.00% D	
	L308	LG 0LR0102J0N5	INDUCTOR,RADIAL LEAD	10UH 5% TP 3X5 TR5			R323	NRSA63J 682X	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
	L308	LG 0LR0102K0P5	INDUCTOR,RADIAL LEAD	L7.5N OEL 10UH 10% TP 4.8X4.0			R324	NRSA63J 152X	RESISTOR,METAL GLAZED(CHIP)	1.5K OHM 1 / 16 W 1608 5.00% D	
	L308	LG 0LR0102K0P5	INDUCTOR,RADIAL LEAD	L7.5N OEL 10UH 10% TP 4.8X4.0			R325	NRSA6AD 272W	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
	L311	LG 0LR0102J0N5	INDUCTOR,RADIAL LEAD	10UH 5% TP 3X5 TR5			R327	NRSA63J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
	L311	LG 0LR0102K0P5	INDUCTOR,RADIAL LEAD	L7.5N OEL 10UH 10% TP 4.8X4.0			R332	NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
	L311	LG 0LR0102K0P5	INDUCTOR,RADIAL LEAD	L7.5N OEL 10UH 10% TP 4.8X4.0			R333	NRSA63J 562X	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
	L501	LG 0LA0122K018	INDUCTOR AXIAL LEAD	12M K 2.3X3.4 L5 TP			R337	NRSA6AD 473W	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
	L503	LG 0LR0102J0N5	INDUCTOR,RADIAL LEAD	10UH 5% TP 3X5 TR5			R338	NRSA63J 562X	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
	L503	LG 0LR0102K0P5	INDUCTOR,RADIAL LEAD	L7.5N OEL 10UH 10% TP 4.8X4.0			R352	NRSA63J 682X	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
	L504	LG 0LR0102J0N5	INDUCTOR,RADIAL LEAD	10UH 5% TP 3X5 TR5			R501	NRSA63J 101X	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
	L504	LG 0LR0102K0P5	INDUCTOR,RADIAL LEAD	L7.5N OEL 10UH 10% TP 4.8X4.0			R502	NRSA63J 101X	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
	L505	LG 0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP			R503	NRSA63J 472X	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
	L506	LG 635 027C	INDUCTOR,RADIAL LEAD	EL0405RA SK1150G 3 K TDK 15UH			R504	NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
	L5F1	LG 0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP			R505	NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
	L5F2	LG 0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP			R506	NRSA63J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
	L5G1	LG 0LR4700K035	INDUCTOR RADIAL LEAD	470M K 6X6 L5 TP			R508	NRSA63J 332X	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
	L5S1	LG 0LA0332K018	INDUCTOR AXIAL LEAD	33M K 2.3X3.4 L5 TP			R509	NRSA63J 222X	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
	L701	LG 0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP			R510	NRSA63J 222X	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
	L702	LG 0LR0102K035	INDUCTOR RADIAL LEAD	10M K 6X6 L5 TP			R512	NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
	L704	LG 0LR0102K035	INDUCTOR RADIAL LEAD	10M K 6X6 L5 TP			R513	NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
	L705	LG 0LR0102K035	INDUCTOR RADIAL LEAD	10M K 6X6 L5 TP			R514	NRSA6AD 124W	RESISTOR,METAL GLAZED(CHIP)	120K OHM 1 / 16 W 1608 5.00% D	
	L706	LG 0LA0821K018	INDUCTOR AXIAL LEAD	8.2M K 2.3X3.4 L5 TP			R515	NRSA6AD 270W	RESISTOR,METAL GLAZED(CHIP)	270 OHM 1 / 16 W 1608 5.00% D	
	L7M1	LG 0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP			R516	NRSA6AD 474W	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
	L901	LG 0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP			R517	NRSA63J 471X	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
	L902	LG 0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP			R518	NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
	L903	LG 0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP			R520	NRSA6AD 392W	RESISTOR,METAL GLAZED(CHIP)	3.9K OHM 1 / 16 W 1608 5.00% D	
	L904	LG 0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP			R521	NRSA63J 472X	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
	L905	LG 0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP			R522	NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
	L906	LG 0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP			R523	NRSA63J 103X	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
	L907	LG 0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP			R524	NRSA63J 220X	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
	L908	LG 0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP			R525	NRSA63J 562X	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
	L909	LG 0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP			R526	NRSA63J 562X	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
	L910	LG 0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP			R528	NRSA63J 472X	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
	LD50	LG 4931R 0017C	HOLDER ASSEMBLY	LED(DI CKD)LOCAL			R529	NRSA63J 103X	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
	MS50	LG 6600JB8005C	SWITCH,MODE	MMS00721ZMB0 MIC 5VDC 1MA D 35			R530	NRSA63J 472X	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
	MS50	LG 6600JB8005B	SWITCH,MODE	NON 5V 1MA VERTICAL G			R531	NRSA63J 103X	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
	Q301	LG 0TR534409AA	TRANSISTOR	2SC5344Y TP			R532	NRSA63J 561X	RESISTOR,METAL GLAZED(CHIP)	560 OHM 1 / 16 W 1608 5.00% D	
	Q301	LG 0TR320309AA	TRANSISTOR,BIPOLARS	KTC3203 KEC TP TO92 50V 150MA			R535	NRSA6AD 474W	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
	Q302	LG 0TR127309AA	TRANSISTOR	KTA1273 TP Y (KTA966A)KEC			R542	NRSA63J 222X	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
	Q303	KRC103S X	TRANSISTOR	CHIP KRC103S T1(NC)22 22 KEC			R543	NRSA63J 101X	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
	Q305	LG 0TR387509AC	TRANSISTOR	CHIP KTC3875S GR T1(ALG) KEC			R544	NRSA63J 472X	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
	Q306	LG 0TR387509AC	TRANSISTOR	CHIP KTC3875S GR T1(ALG) KEC			R545	NRSA63J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
	Q307	LG 0TR10309AC	TRANSISTOR	KRA103S T1(PC)22 22 CHIP KEC			R546	NRSA63J 562X	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
	Q3S2	KRC103S X	TRANSISTOR	CHIP KRC103S T1(NC)22 22 KEC			R547	NRSA63J 123X	RESISTOR,METAL GLAZED(CHIP)	12K OHM 1 / 16 W 1608 5.00% D	
	Q3S3	KRC103S X	TRANSISTOR	CHIP KRC103S T1(NC)22 22 KEC			R548	NRSA63J 104X	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
	Q501	LG 0TR387509AC	TRANSISTOR	CHIP KTC3875S GR T1(ALG) KEC			R550	NRSA6AD 221W	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 2012 5.00% D	
	Q502	LG 0TR387509AC	TRANSISTOR	CHIP KTC3875S GR T1(ALG) KEC			R553	NRSA6AD 221W	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 10 W 2012 5.00% D	

NSP:Not Service Parts

#	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	NSP	#	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	NSP
R554		NRSA63J 331X	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D		R804		NRSA6AD 393W	RESISTOR,METAL GLAZED(CHIP)	39K OHM 1 / 16 W 1608 5.00% D	
R555		NRSA6AD 221W	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 10 W 2012 5.00% D		R805		NRSA6AD 272W	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
R556		NRSA63J 223X	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D		R806		NRSA6AD 333W	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
R557		NRSA6AD 273W	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D		R807		NRSA63J 471X	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
R558		NRSA63J 223X	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D		R808		NRSA63J 103X	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
R559		NRSA63J 472X	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D		R809		NRSA6AD 183W	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
R560		NRSA63J 472X	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D		R810		NRSA63J 101X	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
R561		NRSA63J 561X	RESISTOR,METAL GLAZED(CHIP)	560 OHM 1 / 16 W 1608 5.00% D		R811		NRSA63J 101X	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
R562		NRSA63J 561X	RESISTOR,METAL GLAZED(CHIP)	560 OHM 1 / 16 W 1608 5.00% D		R812		NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
R563		NRSA63J 562X	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D		R821		NRSA63J 222X	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
R564		NRSA6AD 273W	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D		R822		NRSA63J 104X	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
R566		NRSA63J 472X	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D		R823		NRSA63J 222X	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
R567		NRSA63J 103X	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D		R824		NRSA63J 104X	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
R568		NRSA6AD 683W	RESISTOR,METAL GLAZED(CHIP)	68K OHM 1 / 16 W 1608 5.00% D		R825		NRSA63J 561X	RESISTOR,METAL GLAZED(CHIP)	560 OHM 1 / 16 W 1608 5.00% D	
R569		NRSA63J 105X	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1 / 16 W 1608 5.00% D		R826		NRSA63J 561X	RESISTOR,METAL GLAZED(CHIP)	560 OHM 1 / 16 W 1608 5.00% D	
R570		NRSA63J 472X	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D		R835		NRSA63J 750X	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
R575		NRSA63J 472X	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D		R850		NRSA63J 101X	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
R576		NRSA63J 472X	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D		R851		NRSA63J 101X	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
R577		NRSA63J 472X	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D		R854		NRSA02D 681X	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 10 W 2012 5.00% D	
R578		NRSA63J 472X	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D		R855		NRSA02D 681X	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 10 W 2012 5.00% D	
R579		NRSA63J 563X	RESISTOR,METAL GLAZED(CHIP)	56K OHM 1 / 16 W 1608 5.00% D		R861		NRSA6AD 273W	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
R582		NRSA63J 101X	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D		R862		NRSA6AD 273W	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
R583		NRSA63J 103X	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D		R863		NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
R589		NRSA63J 105X	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1 / 16 W 1608 5.00% D		R864		NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
R591		NRSA63J 104X	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D		R865		NRSA63J 105X	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1 / 16 W 1608 5.00% D	
R592		NRSA63J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D		R866		NRSA63J 331X	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
R59											

#	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	NSP	#	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	NSP
	ZD501	UZ7.5BSB	DIODE,ZENER	UZ 7.5BSB 26MM TP PYUNG CHANG			C2B9	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
	ZD501	UZ7.5BSB	DIODE,ZENER	UZ 7.5BSB 26MM TP PYUNG CHANG			C2C1	LG 0CH1103K562	CAPACITOR,CHIP(CERAMIC M/L HD	0.01UF 50V 10% X7R(X) 1608 R/T	
	ZD701	MTZJ5.6C	DIODE,ZENER	MTZ5.6C TP(26MM) ROHM 5.6V			C2C2	QET61CM 106Z	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	

DVD BOARD ASSEMBLY <50>											
A46A	LG 6885R 7422B		SUB PWB(PCB) ASSEMBLY	VJW602CP SERIES DI (444500D212			C2C4	LG 0CH1102K562	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C201	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C2C5	LG 0CH1332K562	CAPACITOR,CHIP(CERAMIC M/L HD	3300P 50V K X7R 1.6X0.8 R/T/P	
C202	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C2C6	LG 0CH1102K562	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C203	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C2C8	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C204	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C2C9	QET61CM 106Z	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
C205	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C2D0	QET61CM 476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
C206	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C2D1	QET61CM 476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
C207	LG 0CH1105D942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C2D2	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C208	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C2D3	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C209	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C2D4	QET61CM 476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
C210	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C2D5	QET61CM 106Z	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
C211	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)			C2D6	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C212	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)			C2D7	LG 0CH1152K562	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C213	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)			C2D9	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C214	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C2M1	QET61CM 107Z	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
C215	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C2M2	LG 0CH1682K562	CAPACITOR,CHIP(CERAMIC M/L HD	6800P 50V K X7R 1.6X0.8 R/T/P	
C216	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C2M3	LG 0CH1472K562	CAPACITOR,CHIP(CERAMIC M/L HD	4700PF 50V K X7R(X) 1608 R/T/P	
C217	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C2M4	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C224	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C2M5	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C225	LG 0CH1105D942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C2M6	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C226	LG 0CH1105D942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C2M7	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C229	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C2M8	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C230	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C2M9	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C231	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C2N1	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C232	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)			C2N3	LG 0CH1223K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.022UF 50V Z Y5V(F) 1508 R/T/P	
C238	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C2N4	LG 0CH1225F944	CAPACITOR,CHIP(CERAMIC M/L HD	2.2UF 16V 80%, 20% Y5V(F) 3216	
C239	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C301	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C240	LG 0CH1222K562		CAPACITOR,CHIP(CERAMIC M/L HD	2200PF 50V K X7R(X) 1608 R/T/P			C302	LG 0CH1225F944	CAPACITOR,CHIP(CERAMIC M/L HD	2.2UF 16V 80%, 20% Y5V(F) 3216	
C242	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C303	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C245	LG 0CH1105D942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C304	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C251	LG 0CH1105D942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C305	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C252	LG 0CH4100K112		CHIP CAPA CERAMIC M/L TC F/S	10P 50V D COG 1.6X0.8 R/T/P			C306	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C253	LG 0CH1105D942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C307	LG 0CH1105D942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C254	LG 0CH1105D942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C308	QET61CM 476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
C255	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C309	LG 0CH1225F944	CAPACITOR,CHIP(CERAMIC M/L HD	2.2UF 16V 80%, 20% Y5V(F) 3216	
C258	LG 0CH1105D942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C314	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C261	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)			C316	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C262	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)			C317	QET61CM 476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
C263	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)			C318	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C264	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)			C319	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C265	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)			C320	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C272	QET61CM 476		CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)			C321	QET61CM 476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
C273	LG 0CH1225F944		CAPACITOR,CHIP(CERAMIC M/L HD	2.2UF 16V 80%, 20% Y5V(F) 3216			C323	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C274	QET61CM 476		CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)			C324	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C277	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C3F1	LG 0CH1225F944	CAPACITOR,CHIP(CERAMIC M/L HD	2.2UF 16V 80%, 20% Y5V(F) 3216	
C278	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)			C3F2	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C279	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)			C3F3	QET61CM 476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
C280	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)			C401	QET61CM 226	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
C281	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)			C402	QET61CM 226	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
C282	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C403	QET61CM 226	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
C284	QET61CM 476		CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)			C404	QET61CM 226	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
C285	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)			C405	QET61CM 476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
C286	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C406	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C287	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)			C408	QET61CM 106Z	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
C288	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)			C409	LG 0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
C289	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C410	LG 0CH4271K412	CAPACITOR,CHIP(CERAMIC M/L HD	270PF 50V 5% NP0 1608 R/T/P	
C290	NDC31HJ 180X		CAPACITOR,CHIP(CERAMIC M/L TC	18P 50V J COG 1.6X0.8 R/T/P			C411	LG 0CH1102K512	CAPACITOR,CHIP(CERAMIC M/L HD	0.0001UF 50V 10% B(SYP) 1608 R/T	
C291	NDC31HJ 180X		CAPACITOR,CHIP(CERAMIC M/L TC	18P 50V J COG 1.6X0.8 R/T/P			C412	LG 0CH4271K412	CAPACITOR,CHIP(CERAMIC M/L HD	270PF 50V 5% NP0 1608 R/T/P	
C292	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C413	QET61CM 106Z	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
C293	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C414	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C294	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C415	QET61CM 106Z	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
C295	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C416	LG 0CH1102K512	CAPACITOR,CHIP(CERAMIC M/L HD	0.0001UF 50V 10% B(SYP) 1608 R/T	
C296	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C417	LG 0CH4271K412	CAPACITOR,CHIP(CERAMIC M/L HD	270PF 50V 5% NP0 1608 R/T/P	
C297	QET61CM 476		CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)			C418	LG 0CH1392K562	CAPACITOR,CHIP(CERAMIC M/L HD	3900PF 50V K Z5U(E) 1608 R/T/P	
C298	LG 0CE4775C638		CAPACITOR,CHIP(CERAMIC M/L HD	470UF SR,SV 6.3V 20% FM5 TP 5			C419	QET61CM 226	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
C2A0	QET61CM 476		CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)			C420	LG 0CH1392K562	CAPACITOR,CHIP(CERAMIC M/L HD	3900PF 50V K Z5U(E) 1608 R/T/P	
C2A3	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C421	QET61CM 226	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
C2A4	QET61CM 106Z		CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)			C422	QET61CM 106Z	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
C2A5	LG 0CH1683F942		CAPACITOR,CHIP(CERAMIC M/L HD	0.068UF 16V 80%, 20% Y5V(F) 16			C423	LG 0CH4271K412	CAPACITOR,CHIP(CERAMIC M/L HD	270PF 50V 5% NP0 1608 R/T/P	
C2A6	LG 0CH1102K562		CAPACITOR,CHIP(CERAMIC M/L HD	0.0001UF 50V 10% X7R(X) 1608 R/T			C424	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C2A7	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C425	LG 0CH1104K942	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P	
C2A8	LG 0CH1152K562		CAPACITOR,CHIP(CERAMIC M/L HD	1500PF 50V 10% X7R(X) 1608 R/T			C501	QET61CM 476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
C2A9	LG 0CH1104K942		CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/T/P			C502	NCF31CZ 104X	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 16V 80%, 20% Y5V(F) 1608	
C2B3	LG 0CH1392K562		CAPACITOR,CHIP(CERAMIC M/L HD	3900PF 50V K Z5U(E) 1608 R/T/P			C503	NCF31CZ 104X	CAPACITOR,CHIP(CERAMIC M/L HD	0.1UF 16V 80%, 20% Y5V(F) 1608	
C2B4	LG 0CH1683F942		CAPACITOR,CHIP(CERAMIC M/L HD	0.068UF 16V 80%, 20% Y5V(F) 16			C504	QET61CM 106Z	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
C2B5	LG 0CH1333K562		CAPACITOR,CHIP(CERAMIC M/L HD	0.033UF 50V K X7R(X) 1508 R/T/P							

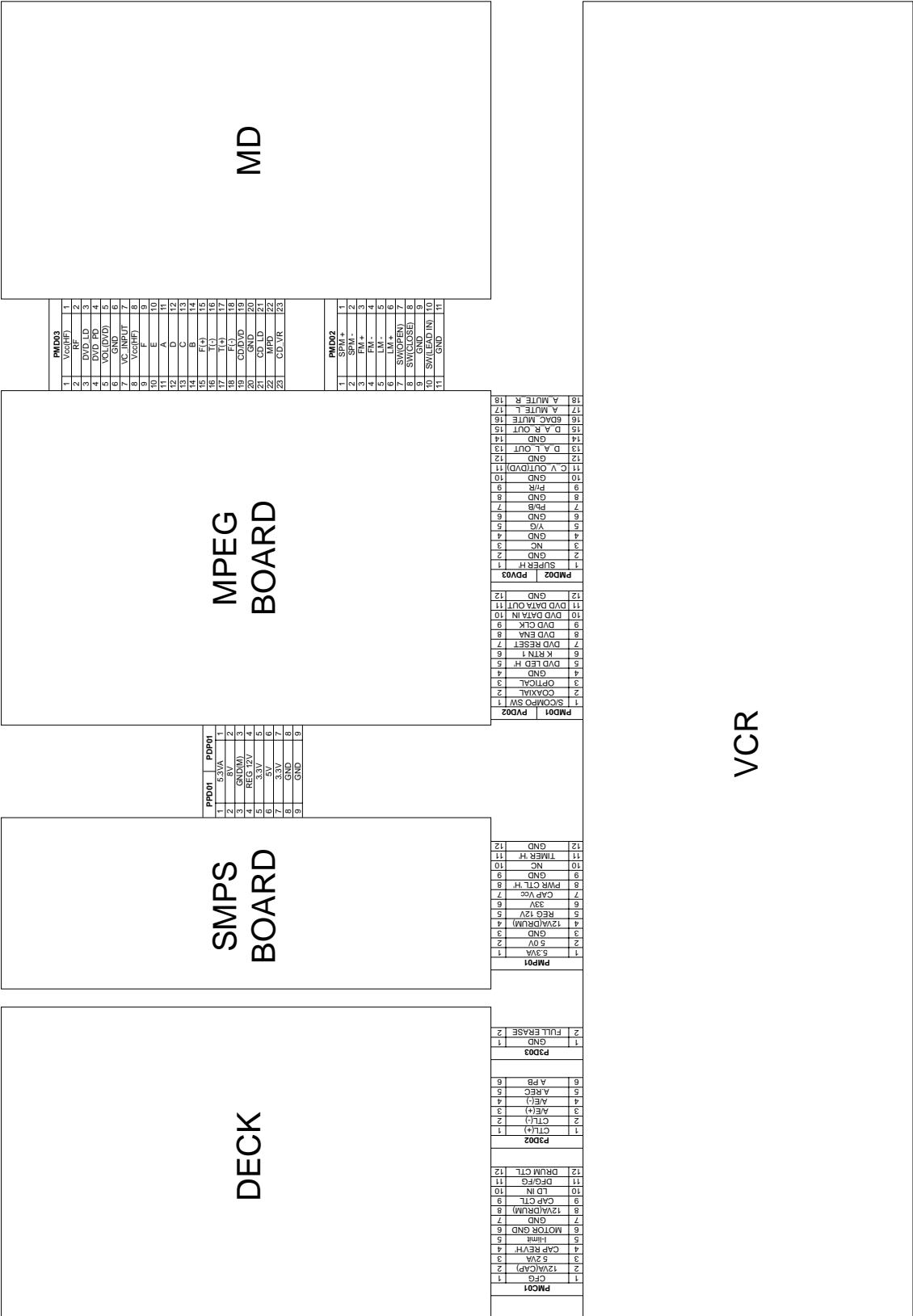
NSP:Not Service Parts

#	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	NSP	#	REF No.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	NSP
C512		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		Q2A1		2SA1037K/QR/ X	TRANSISTOR,BIPOLARS	2SA1037K Q CHIP TP ROHM	
C513		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		Q2A2		2SA1037K/QR/ X	TRANSISTOR,BIPOLARS	2SA1037K Q CHIP TP ROHM	
C514		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		Q2A5		LG 0TR388209AA	TRANSISTOR,BIPOLARS	CHIP KTC3882 SOT 23 TP KEC	
C515		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		Q2A6		LG 0TR388209AA	TRANSISTOR,BIPOLARS	CHIP KTC3882 SOT 23 TP KEC	
C516		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		Q2M1		DTC124EKA X	TRANSISTOR,BIPOLARS	DTC124EK TP ROHM KOREA SOT23 3	
C517		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		Q401		2SA1037K/QR/ X	TRANSISTOR,BIPOLARS	2SA1037K Q CHIP TP ROHM	
C518		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		Q404		LG 0TR103009AC	TRANSISTOR	KRA103S T1(PC)22 22 CHIP KEC	
C519		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		Q405		LG 0TR103009AC	TRANSISTOR	KRA103S T1(PC)22 22 CHIP KEC	
C520		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		R201		NRS463J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
C521		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		R202		NRS463J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
C522		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		R203		NRS463J 102X	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
C523		LG 0CH1225F944	CAPACITOR, FIXED CERAMIC/Temp.c	2.2UF 16V 80%, 20% Y5V(F) 3216		R204		NRS463J 102X	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
C525		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		R207		NRS463J 105X	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1 / 16 W 1608 5.00% D	
C526		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		R217		NRS463J 100X	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
C527		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		R218		NRS463J 471X	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
C528		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		R219		NRS463J 103X	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
C529		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		R220		NRS463J 103X	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
C530		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		R230		NRS463J 101X	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
C531		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		R231		NRS463J 101X	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
C532		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		R232		NRS463J 101X	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
C533		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		R233		NRS463J 101X	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
C534		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		R234		NRS463J 101X	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
C535		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		R235		NRS463J 101X	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
C536		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		R236		NRS463J 101X	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
C538		LG 0CH1225F944	CAPACITOR, FIXED CERAMIC/Temp.c	2.2UF 16V 80%, 20% Y5V(F) 3216		R237		NRS463J 101X	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
C540		NDC31HJ 220X	CAPA,CHIP CERAMIC M.L.T.C F/S	22P 50V J COG 1.6X0.8 R/TP		R239		NRS463J 221X	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
C541		NDC31HJ 270X	CAPACITOR,CHIP/CERAMIC M.L.T.C	27PF 50V J NPO 1608 R/TP		R240		NRS463J 221X	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
C542		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		R241		NRS463J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
C543		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		R242		NRS463J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
C544		LG 0CH1225F944	CAPACITOR, FIXED CERAMIC/Temp.c	2.2UF 16V 80%, 20% Y5V(F) 3216		R243		NRS463J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
C546		NDC31HJ 221X	CAPACITOR,CHIP/CERAMIC M.L.T.C	220P 50V J COG 1.6X0.8 R/TP		R252		NRS463J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
C549		NDC31HJ 221X	CAPACITOR,CHIP/CERAMIC M.L.T.C	220P 50V J COG 1.6X0.8 R/TP		R269		LG 0LC0233002B	INDUCTOR,CHIP	HB 1S1608 800UT CERATECH R/TP	
C550		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		R271		NRS463J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
C553		NDC31HJ 221X	CAPACITOR,CHIP/CERAMIC M.L.T.C	220P 50V J COG 1.6X0.8 R/TP		R272		NRS463J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
C554		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		R273		NRS463J 152X	RESISTOR,METAL GLAZED(CHIP)	1.5K OHM 1 / 16 W 1608 5.00% D	
C555		NDC31HJ 101X	CHIP CAPA CERAMIC M.L.T.C F/S	100P 50V J COG 1.6X0.8 R/TP		R274		NRS463J 621X	RESISTOR,METAL GLAZED(CHIP)	620 OHM 1 / 16 W 1608 5.00% D	
C556		NDC31HJ 101X	CHIP CAPA CERAMIC M.L.T.C F/S	100P 50V J COG 1.6X0.8 R/TP		R275		NRS463J 152X	RESISTOR,METAL GLAZED(CHIP)	1.5K OHM 1 / 16 W 1608 5.00% D	
C557		NDC31HJ 270X	CAPACITOR,CHIP/CERAMIC M.L.T.C	27PF 50V J NPO 1608 R/TP		R276		NRS463J 911X	RESISTOR,METAL GLAZED(CHIP)	910 OHM 1 / 16 W 1608 5.00% D	
C558		NCF31CZ 104X	CAPACITOR, FIXED CERAMIC/Temp.c	0.1UF 16V 80%, 20% Y5V(F) 1608		R277		NRS463J 151X	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 5.00% D	
C559		QET61CM 476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FMS TP(P)		R278		NRS463J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
C560		LG 0CH1225F944	CAPACITOR, FIXED CERAMIC/Temp.c	2.2UF 16V 80%, 20% Y5V(F) 3216		R279		NRS463J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
C561		QET61CM 476	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FMS TP(P)		R281		NRS463J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
D2A1		DAN202K X	DIODE, SWITCHING	DAN202K TP ROHM KOREA SOT23 80		R290		NRS463J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
D2A2		DAN202K X	DIODE, SWITCHING	DAN202K TP ROHM KOREA SOT23 80		R291		NRS463J 101X	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
D2A3		DAN202K X	DIODE, SWITCHING	DAN202K TP ROHM KOREA SOT23 80		R292		NRS463J 103X	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
D401		DAP202K X	DIODE, SWITCHING	DAP202K T146 ROHM R/TP SMD 80V		R293		NRS463J 221X	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
IC201		LG 0ILNRHY002B	IC, LINEAR	HDC25D811B HYUNDAI 208 QFP TRA		R294		NRS463J 221X	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
IC206		TCW04FU X	IC, TOSHIBA	TC7W04FU		R295		NRS463J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
IC2A1		LG 0ILNRHI003A	IC, LINEAR	HD153702TF HITACHI 64 TQFP TRA		R2A1		NRS463J 910X	RESISTOR,METAL GLAZED(CHIP)	91 OHM 1 / 16 W 1608 5.00% D	
IC2A2		NJM3414AM X	IC, JRC	NJM3414AM TE1.3K(REEL) JRC		R2A2		NRS463J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
IC2A4		LG 0IKE393000G	IC, KEC	KIA393F EL FLP 8 TP DUAL COMPA		R2A6		NRS463J 123X	RESISTOR,METAL GLAZED(CHIP)	12K OHM 1 / 16 W 1608 5.00% D	
IC2M1		LG 0IFA303200A	IC, FAIRCHILD	KA3032 48QFP BK 5CH MOTOR DRIV		R2A9		NRS463J 563X	RESISTOR,METAL GLAZED(CHIP)	56K OHM 1 / 16 W 1608 5.00% D	
IC2M1		LG 0ILNRFAD13A	IC, LINEAR	FAN8004 FAIRCHILD 48 QFP TRAY		R2B0		NRS463J 102X	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
IC301		LG 0XL957210C	IC, XILINX	XC9572XL 10TQ100C 100 QFP TRAY		R2B1		NRS463J 102X	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
IC301		LG 0ICTMHY011A	IC, CUSTOMIZED	HS353106 HYNIX 100 TQFP TRAY C		R2B2		NRS463J 180X	RESISTOR,METAL GLAZED(CHIP)	18 OHM 1 / 16 W 1608 5.00% D	
IC305		LG 0IHY576532A	IC, HYUNDAI	HY57V653220CTC 7 86P TSOP BK S		R2B3		NRS463J 180X	RESISTOR,METAL GLAZED(CHIP)	18 OHM 1 / 16 W 1608 5.00% D	
IC305		LG 0IIMRH7Y025A	IC, MEMORIES	HY57V643220CTC 7 HYUNDAI 86P TS		R2B4		NRS463J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
IC3F1		LG 0IMMRFU001B	IC, MEMORIES	MBM29LV800BA 90PFTN FUJITSU 48		R2B5		NRS463J 102X	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
IC3F1A		LG 6957R 412AA	PROGRAM	VJW602CS (JVC) DVD PROGRAM		R2B6		NRS463J 180X	RESISTOR,METAL GLAZED(CHIP)	18 OHM 1 / 16 W 1608 5.00% D	
IC401		LG 0IPRRC01003B	IC, PERIPHERALS	CS4391 KZR CIRRSU LOGIC 20 TSS		R2B7		NRS463J 180X	RESISTOR,METAL GLAZED(CHIP)	18 OHM 1 / 16 W 1608 5.00% D	
IC402		NJM4580M X	IC, JRC	NJM4580M 8,DMP8 TP OP AMP 2K/R		R2B8		NRS463J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
IC501		LG 0INS860200A	IC, NATIONAL SEMICONDUCTOR	NDV8602 240 VQFP BK MICOM+MPEG		R2C0		NRS463J 562X	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
IC502		LG 0IIMRCB001A	IC, MEMORIES	CAT93C56S TE13 CRYSTAL SEMICON		R2C4		NRS463J 102X	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
IC502		LG 0IIMRAL012A	IC, MEMORIES	AT93C56 10S(SI) 2.7 8S1 ATMEL		R2C5		NRS463J 102X	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
IC503		LG 0IFA742440F	IC, FAIRCHILD	MM74HCT244SJ 20P SOIC TP 3 STA		R2C6		NRS463J 562X	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
IC506		LG 0IPMGA7001A	IC, POWER MANAGEMENT	AMC1117 1.8SJ ADD MICROTCH 3P		R2C7		NRS463J 562X	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
L201		LG 6200HJC102A	FILTER(CIRC), EMC	HB 1M2012 102JT CERATECH TP		R2C8		NRS463J 562X	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
L206		LG 6200HJC102A	FILTER(CIRC), EMC	HB 1M2012 102JT CERATECH TP		R2C9		NRS463J 562X	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
L207		LG 6200HJC102A	FILTER(CIRC), EMC	HB 1M2012 102JT CERATECH TP		R2D0		NRS463J 562X	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
L208		LG 6200HJC102A	FILTER(CIRC), EMC	HB 1M2012 102JT CERATECH TP		R2D1		NRS463J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
L2A1		LG 6200HJC102A	FILTER(CIRC), EMC	HB 1M2012 102JT CERATECH TP		R2D2		NRS463J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
L2A2		LG 6200HJC102A	FILTER(CIRC), EMC	HB 1M2012 102JT CERATECH TP		R2D3		NRS463J 562X	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
L301		LG 6200HJC102A	FILTER(CIRC), EMC	HB 1M2012 102JT CERATECH TP		R2D4		NRS463J 562X	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
L302		LG 6200HJC102A	FILTER(CIRC), EMC	HB 1M2012 102JT CERATECH TP		R2D5		NRS463J 682X	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
L3F1		LG 6200HJC102A	FILTER(CIRC), EMC	HB 1M2012 102JT CERATECH TP		R2D6		NRS463J 910X	RESISTOR,METAL GLAZED(CHIP)	91 OHM 1 / 16 W 1608 5.00% D	
L501		LG 6200HJC102A	FILTER(CIRC), EMC	HB 1M2012 102JT CERATECH TP		R2E6		NRS463J 101X	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
L502		LG 6200HJC102A	FILTER(CIRC), EMC	HB 1M2012 102JT CERATECH TP		R2E7		NRS463J 101X	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
L503		LG 6200HJC102A	FILTER(CIRC), EMC	HB 1M2012 102JT CERATECH TP		R2E8		NRS463J 0R0X	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
L504		LG 6200HJC102A	FILTER(CIRC), EMC	HB 1M2012 102JT CERATECH TP		R2E9		NRS463J 102X	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
L505		LG 6200HJC102A	FILTER(CIRC), EMC	HB 1M2012 102JT CERATECH TP		R2F1		NRS463J 221X	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
L506		LG 6200HJC102A	FILTER(CIRC), EMC	HB 1M2012 102JT CERATECH TP		R2F2		NRS463J 221X	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
L											

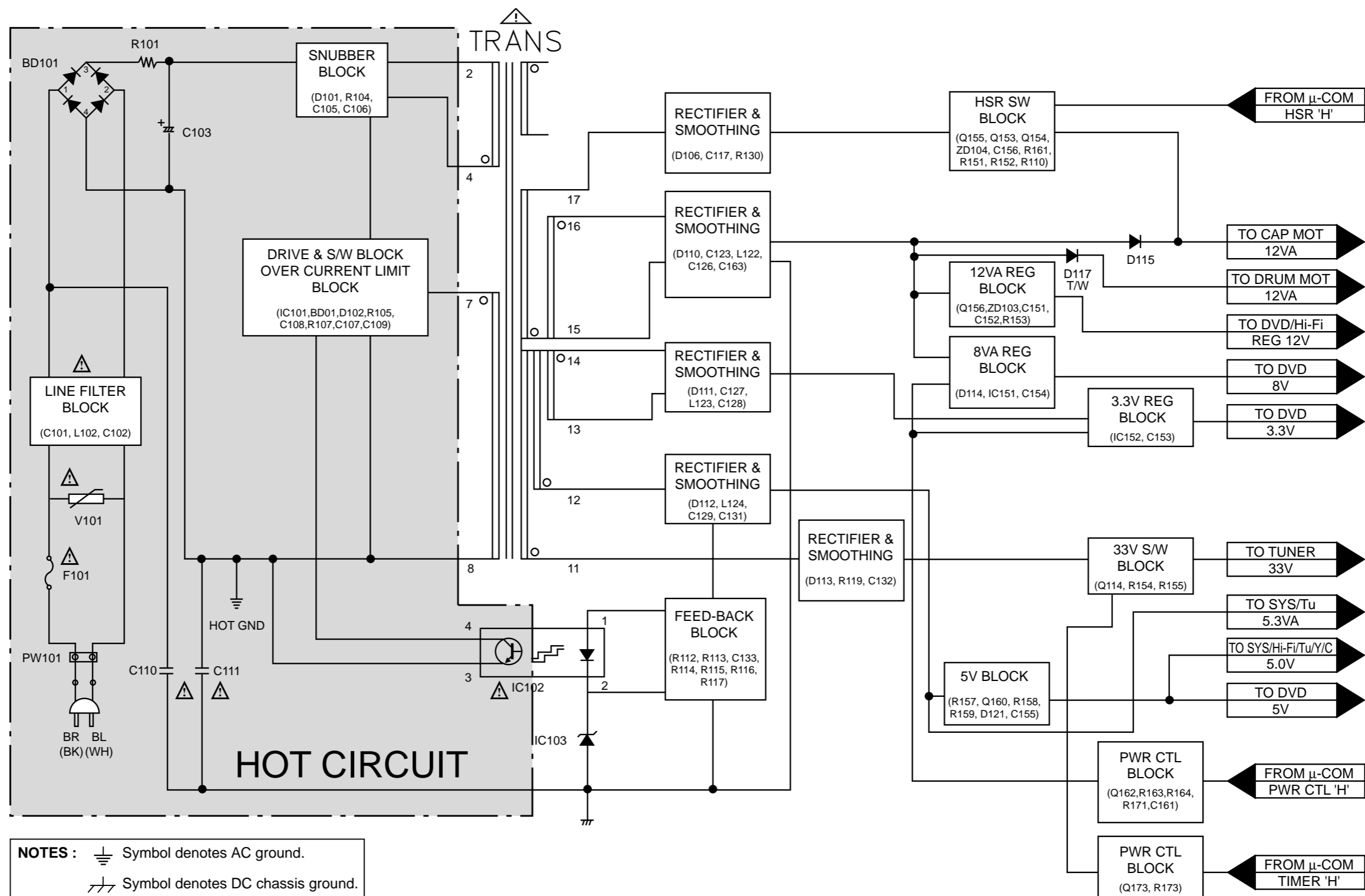
NSP:Not Service Parts

#	REF NO.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	NSP	#	REF NO.	PART No.	PART NAME, DESCRIPTION	SPECIFICATION	NSP
R2F6	NRSA63J 562X	RESISTOR,METAL GLAZED(CHIP	5.6K OHM 1 / 16 W 1608 5.00% D			R429	NRSA63J 0R0X	RESISTOR,METAL GLAZED(CHIP	0 OHM 1 / 16 W 1608 5.00% D		
R2F7	NRSA63J 562X	RESISTOR,METAL GLAZED(CHIP	5.6K OHM 1 / 16 W 1608 5.00% D			R430	NRSA63J 0R0X	RESISTOR,METAL GLAZED(CHIP	0 OHM 1 / 16 W 1608 5.00% D		
R2F8	NRSA63J 222X	RESISTOR,METAL GLAZED(CHIP	2.2K OHM 1 / 16 W 1608 5.00% D			R431	NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP	1K OHM 1 / 16 W 1608 5.00% D		
R2F9	NRSA63J 222X	RESISTOR,METAL GLAZED(CHIP	2.2K OHM 1 / 16 W 1608 5.00% D			R432	NRSA63J 0R0X	RESISTOR,METAL GLAZED(CHIP	0 OHM 1 / 16 W 1608 5.00% D		
R2G1	NRSA63J 222X	RESISTOR,METAL GLAZED(CHIP	2.2K OHM 1 / 16 W 1608 5.00% D			R433	NRSA63J 561X	RESISTOR,METAL GLAZED(CHIP	560 OHM 1 / 16 W 1608 5.00% D		
R2G2	NRSA63J 222X	RESISTOR,METAL GLAZED(CHIP	2.2K OHM 1 / 16 W 1608 5.00% D			R434	NRSA63J 561X	RESISTOR,METAL GLAZED(CHIP	560 OHM 1 / 16 W 1608 5.00% D		
R2G3	NRSA63J 562X	RESISTOR,METAL GLAZED(CHIP	5.6K OHM 1 / 16 W 1608 5.00% D			R435	NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP	1K OHM 1 / 16 W 1608 5.00% D		
R2G4	NRSA63J 562X	RESISTOR,METAL GLAZED(CHIP	5.6K OHM 1 / 16 W 1608 5.00% D			R436	NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP	1K OHM 1 / 16 W 1608 5.00% D		
R2G7	NRSA63J 103X	RESISTOR,METAL GLAZED(CHIP	10K OHM 1 / 16 W 1608 5.00% D			R437	NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP	1K OHM 1 / 16 W 1608 5.00% D		
R2G9	NRSA63J 151X	RESISTOR,METAL GLAZED(CHIP	150 OHM 1 / 16 W 1608 5.00% D			R438	NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP	1K OHM 1 / 16 W 1608 5.00% D		
R2M1	NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP	1K OHM 1 / 16 W 1608 5.00% D			R439	NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP	1K OHM 1 / 16 W 1608 5.00% D		
R2M2	NRSA63J 103X	RESISTOR,METAL GLAZED(CHIP	10K OHM 1 / 16 W 1608 5.00% D			R440	NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP	1K OHM 1 / 16 W 1608 5.00% D		
R2M3	NRSA63J 752X	RESISTOR,METAL GLAZED(CHIP	7.5K OHM 1 / 16 W 1608 5.00% D			R441	NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP	1K OHM 1 / 16 W 1608 5.00% D		
R2M5	NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP	1K OHM 1 / 16 W 1608 5.00% D			R501	NRSA63J 332X	RESISTOR,METAL GLAZED(CHIP	3.3K OHM 1 / 16 W 1608 5.00% D		
R2M6	NRSA63J 103X	RESISTOR,METAL GLAZED(CHIP	10K OHM 1 / 16 W 1608 5.00% D			R502	NRSA63J 0R0X	RESISTOR,METAL GLAZED(CHIP	0 OHM 1 / 16 W 1608 5.00% D		
R2M7	NRSA63J 103X	RESISTOR,METAL GLAZED(CHIP	10K OHM 1 / 16 W 1608 5.00% D			R503	NRSA63J 0R0X	RESISTOR,METAL GLAZED(CHIP	0 OHM 1 / 16 W 1608 5.00% D		
R2M8	NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP	1K OHM 1 / 16 W 1608 5.00% D			R504	NRSA6AD 151W	RESISTOR,METAL GLAZED(CHIP	150 OHM 1 / 16 W 1608 1.00% D		
R2M9	NRSA63J 103X	RESISTOR,METAL GLAZED(CHIP	10K OHM 1 / 16 W 1608 5.00% D			R505	NRSA63J 100X	RESISTOR,METAL GLAZED(CHIP	10 OHM 1 / 16 W 1608 5.00% D		
R2N0	NRSA63J 123X	RESISTOR,METAL GLAZED(CHIP	12K OHM 1 / 16 W 1608 5.00% D			R506	NRSA6AD 102W	RESISTOR,METAL GLAZED(CHIP	1K OHM 1 / 16 W 1608 1.00% D		
R2N1	NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP	1K OHM 1 / 16 W 1608 5.00% D			R507	NRSA63J 111X	RESISTOR,METAL GLAZED(CHIP	110 OHM 1 / 16 W 1608 5.00% D		
R2N2	NRSA63J 562X	RESISTOR,METAL GLAZED(CHIP	5.6K OHM 1 / 16 W 1608 5.00% D			R508	NRSA63J 750X	RESISTOR,METAL GLAZED(CHIP	75 OHM 1 / 16 W 1608 5.00% D		
R2N3	NRSA63J 103X	RESISTOR,METAL GLAZED(CHIP	10K OHM 1 / 16 W 1608 5.00% D			R509	NRSA63J 111X	RESISTOR,METAL GLAZED(CHIP	110 OHM 1 / 16 W 1608 5.00% D		
R2N4	NRSA63J 153X	RESISTOR,METAL GLAZED(CHIP	15K OHM 1 / 16 W 1608 5.00% D			R510	NRSA63J 220X	RESISTOR,METAL GLAZED(CHIP	22 OHM 1 / 16 W 1608 5.00% D		
R2N5	NRSA63J 123X	RESISTOR,METAL GLAZED(CHIP	12K OHM 1 / 16 W 1608 5.00% D			R514	NRSA63J 220X	RESISTOR,METAL GLAZED(CHIP	22 OHM 1 / 16 W 1608 5.00% D		
R2N6	NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP	1K OHM 1 / 16 W 1608 5.00% D			R515	NRSA63J 220X	RESISTOR,METAL GLAZED(CHIP	22 OHM 1 / 16 W 1608 5.00% D		
R2N7	NRSA63J 102X	RESISTOR,METAL GLAZED(CHIP	1K OHM 1 / 16 W 1608 5.00% D			R516	LG 6200JB8010V	FILTER(CIRC),EMC	LFA20 2A1E473MT MITSUBISHI MAT		
R2N8	NRSA63J 103X	RESISTOR,MET									

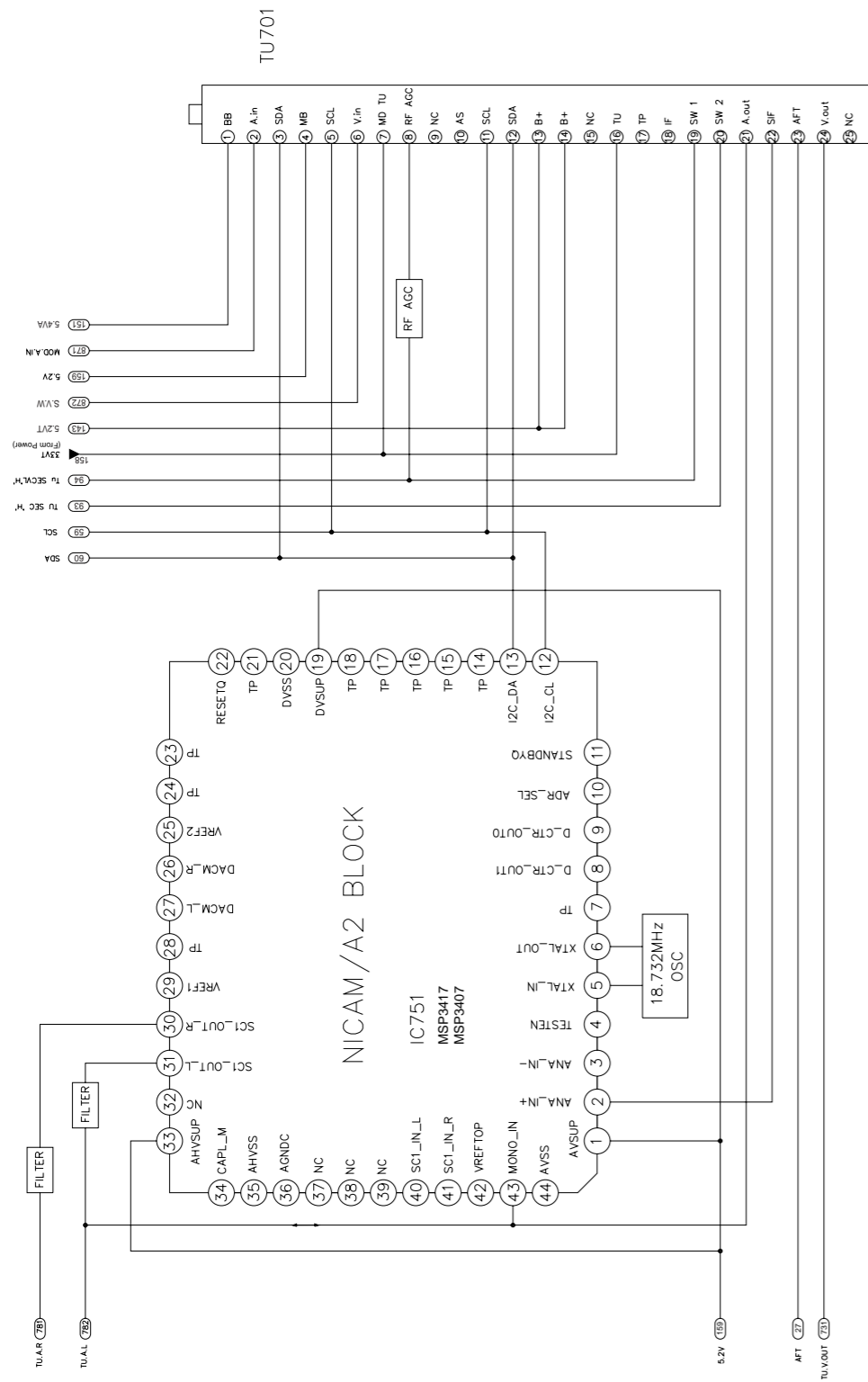
OVERALL WIRING DIAGRAM



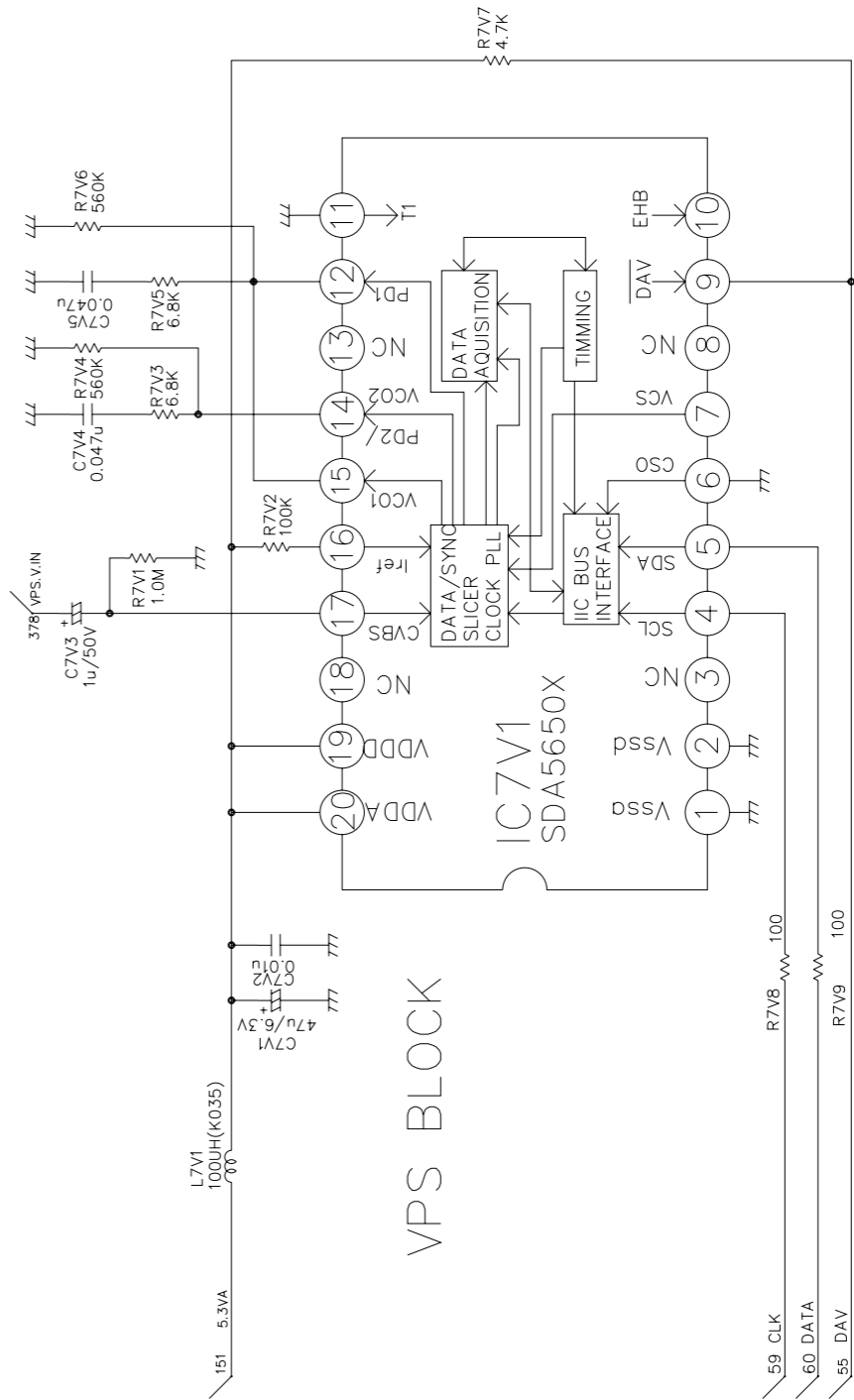
BLOCK DIAGRAMS
1. POWER(SMPS) BLOCK DIAGRAM



2. Tu/IF, NICAM & A2 BLOCK DIAGRAM

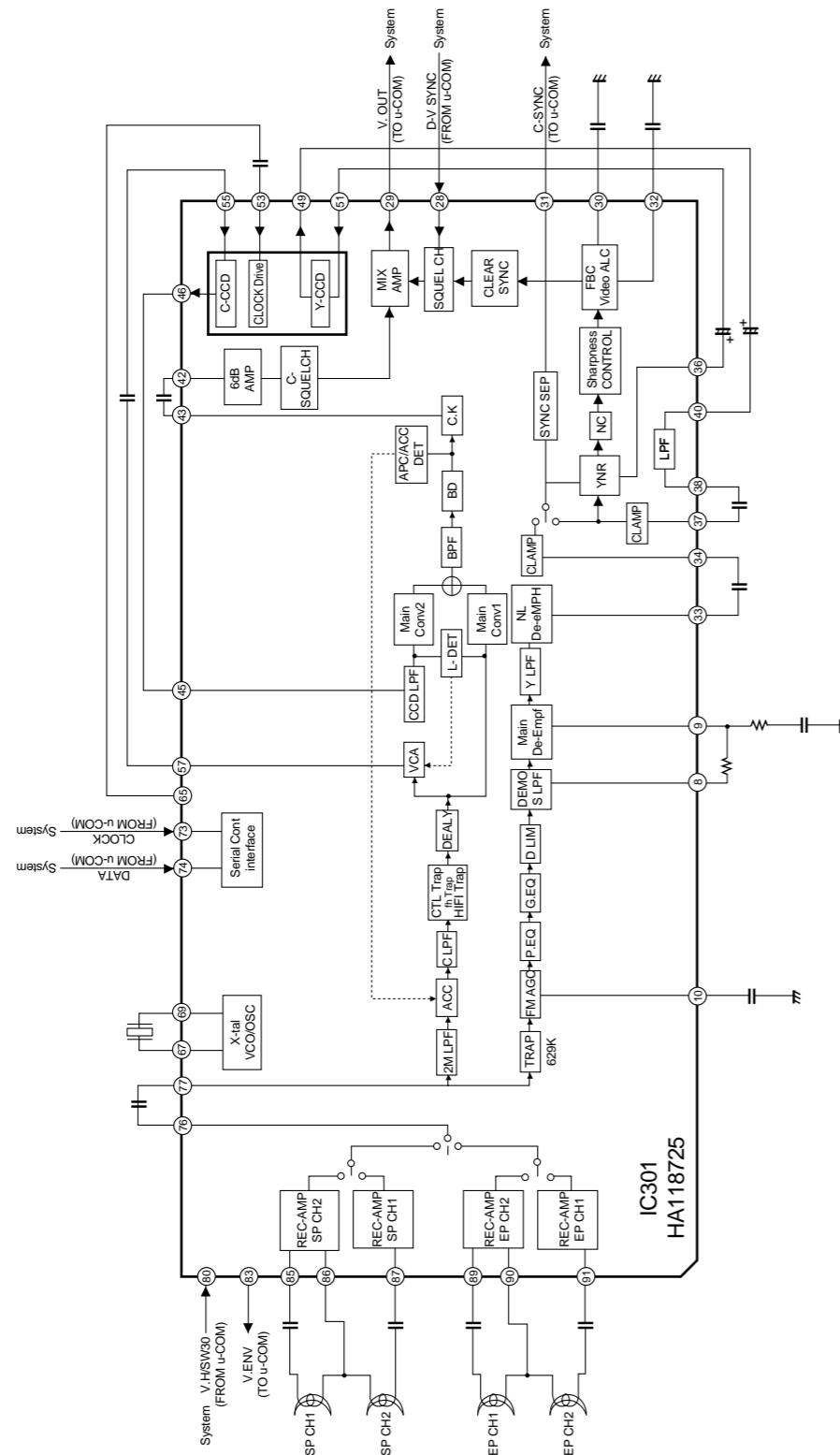


3. VPS BLOCK DIAGRAM

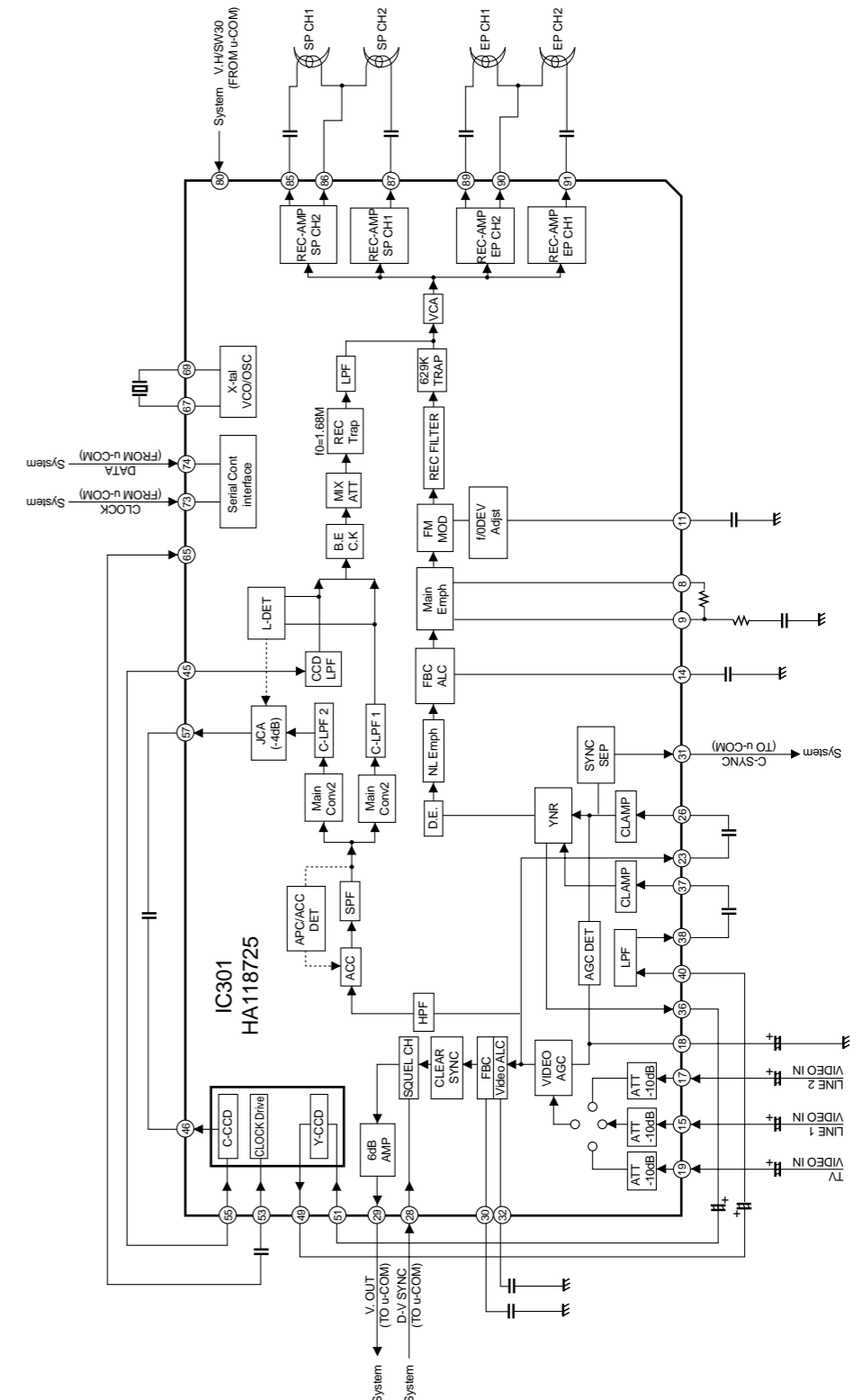


4. Y/C BLOCK DIAGRAM

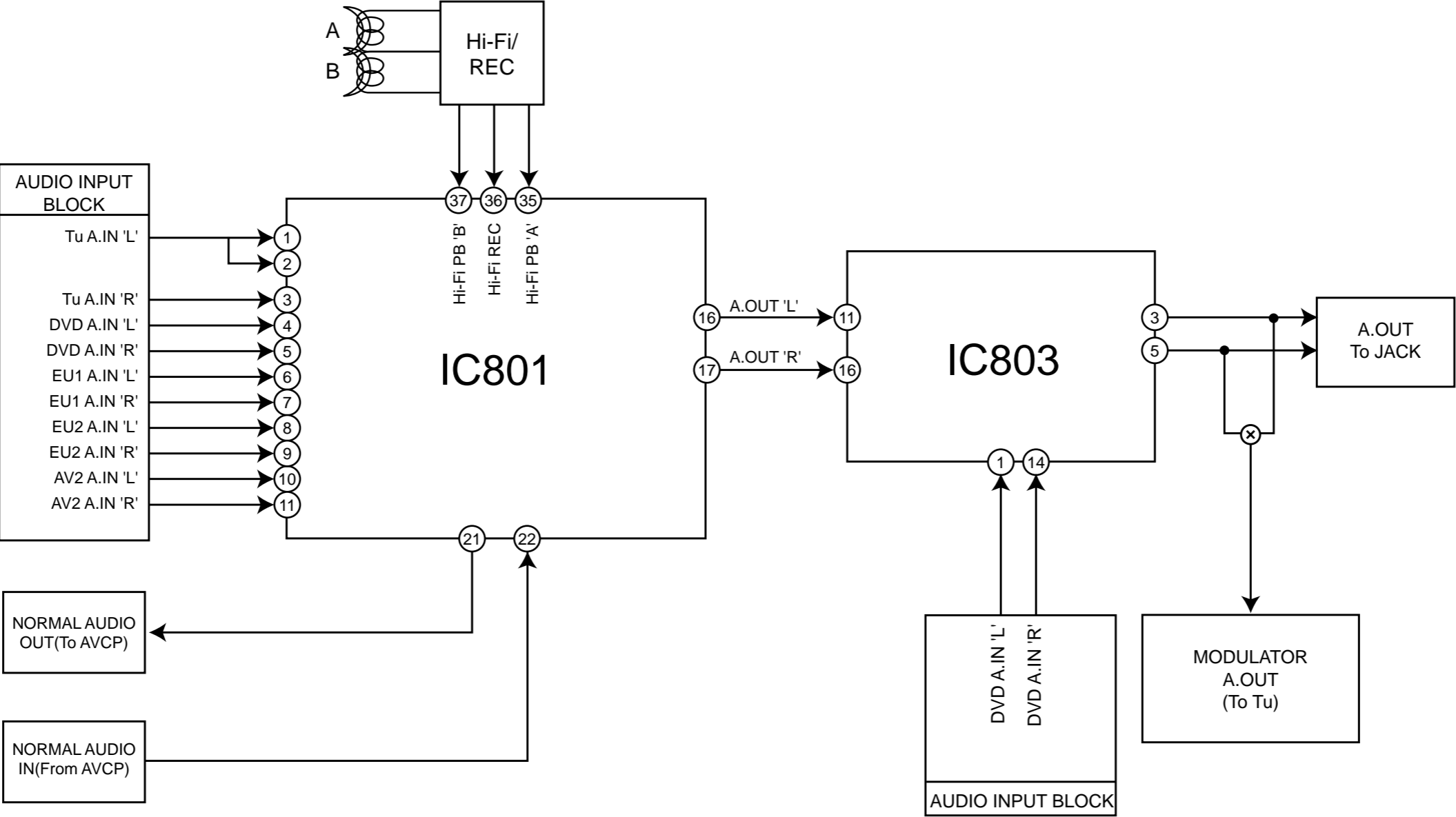
(PB MODE)



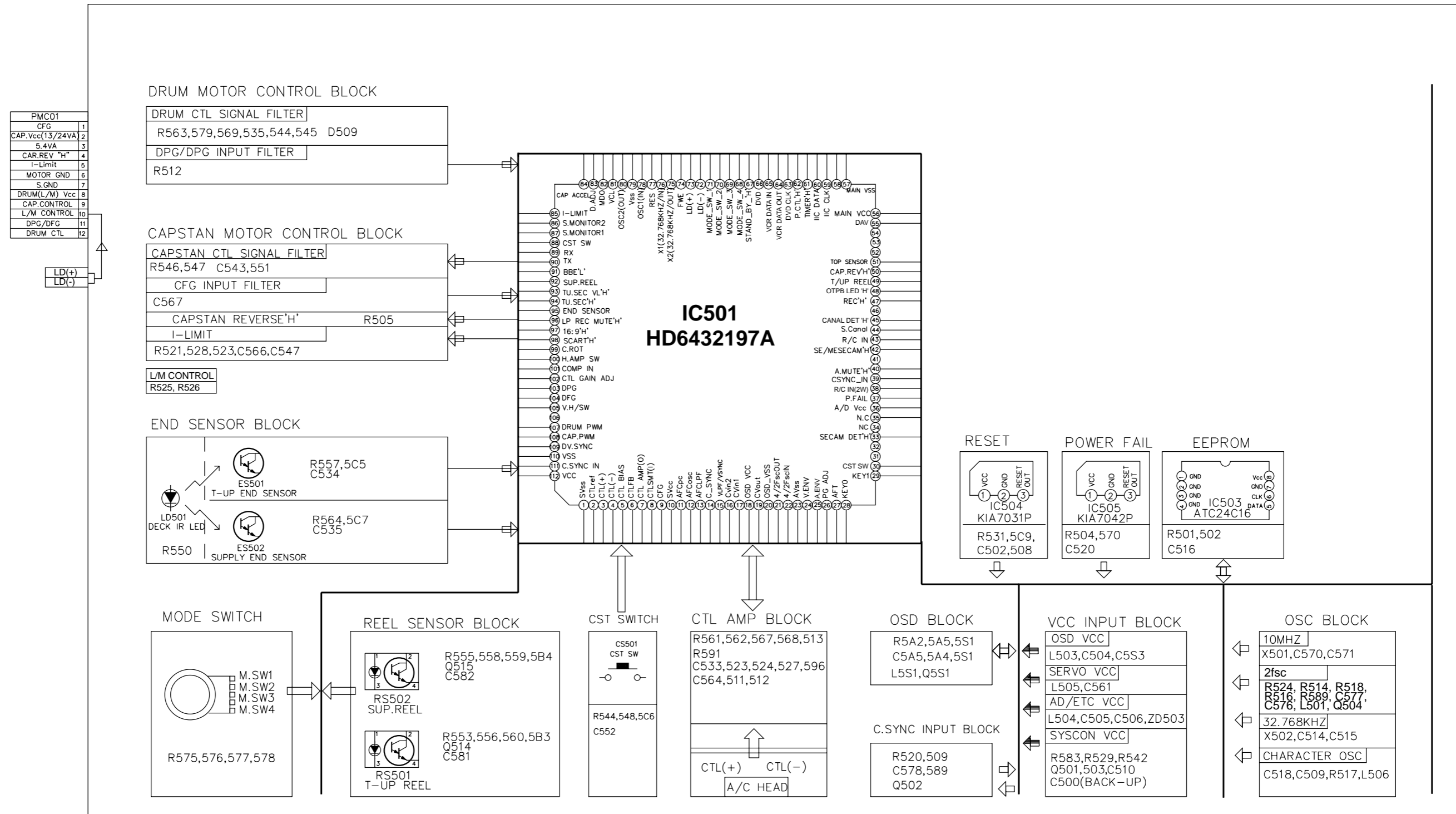
(REC MODE)



5. Hi-Fi BLOCK DIAGRAM

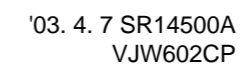


6. SYSTEM BLOCK DIAGRAM



1. POWER(SMPS) CIRCUIT DIAGRAM

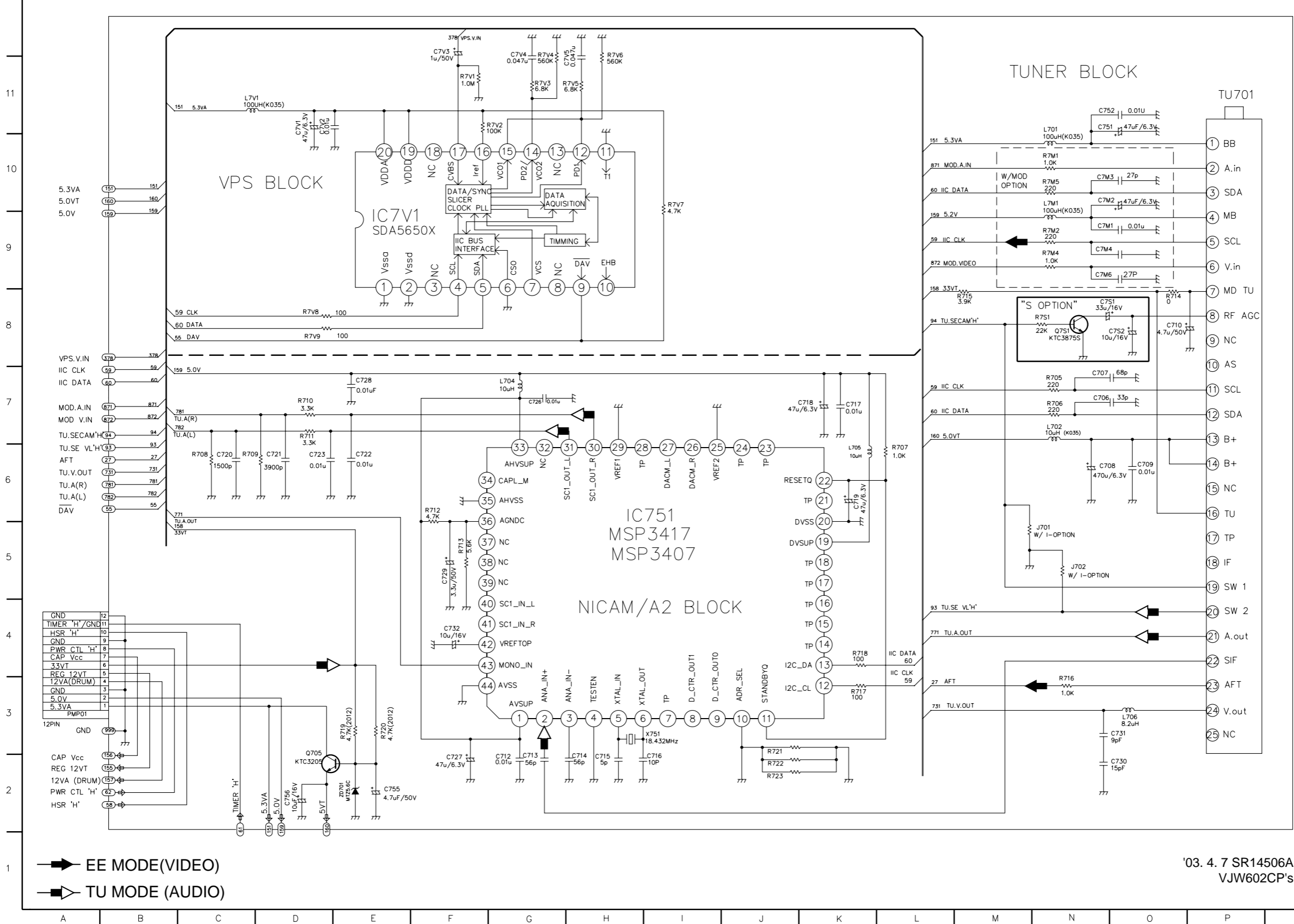
1. POWER(SMPS) CIRCUIT DIAGRAM



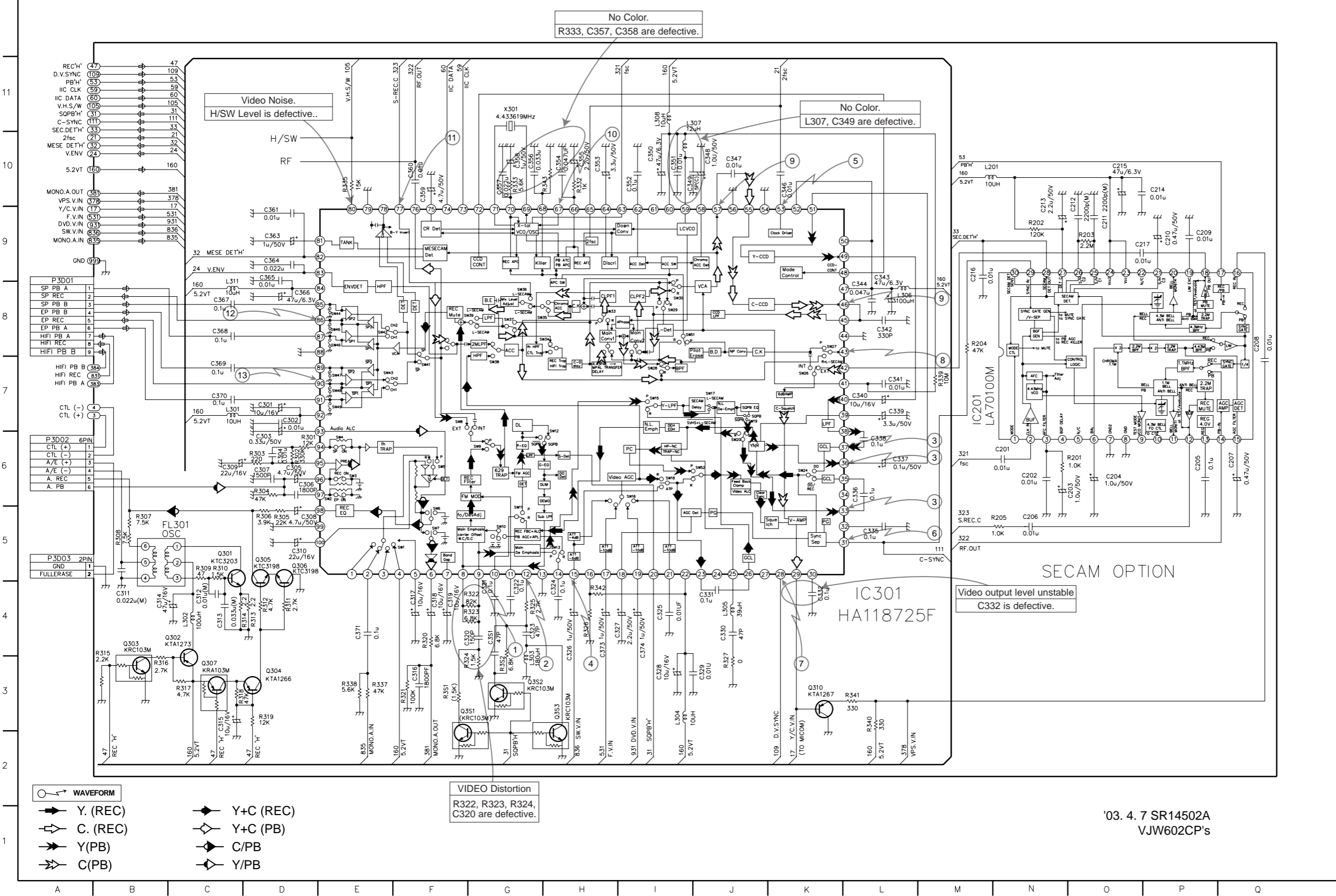
WHEN SERVICING THIS CHASSIS, UNDER NO CIRCUMSTANCES SHOULD THE ORIGINAL DESIGN BE MODIFIED OR ALTERED WITHOUT PERMISSION FROM THE JVC ELECTRONICS CORPORATION. ALL COMPONENTS SHOULD BE REPLACED ONLY WITH TYPES IDENTICAL TO THOSE IN THE ORIGINAL CIR-

1. Shaded(■) parts are critical for safety. Replace only with specified part number.
2. Voltages are DC-measured with a digital voltmeter during Play mode.

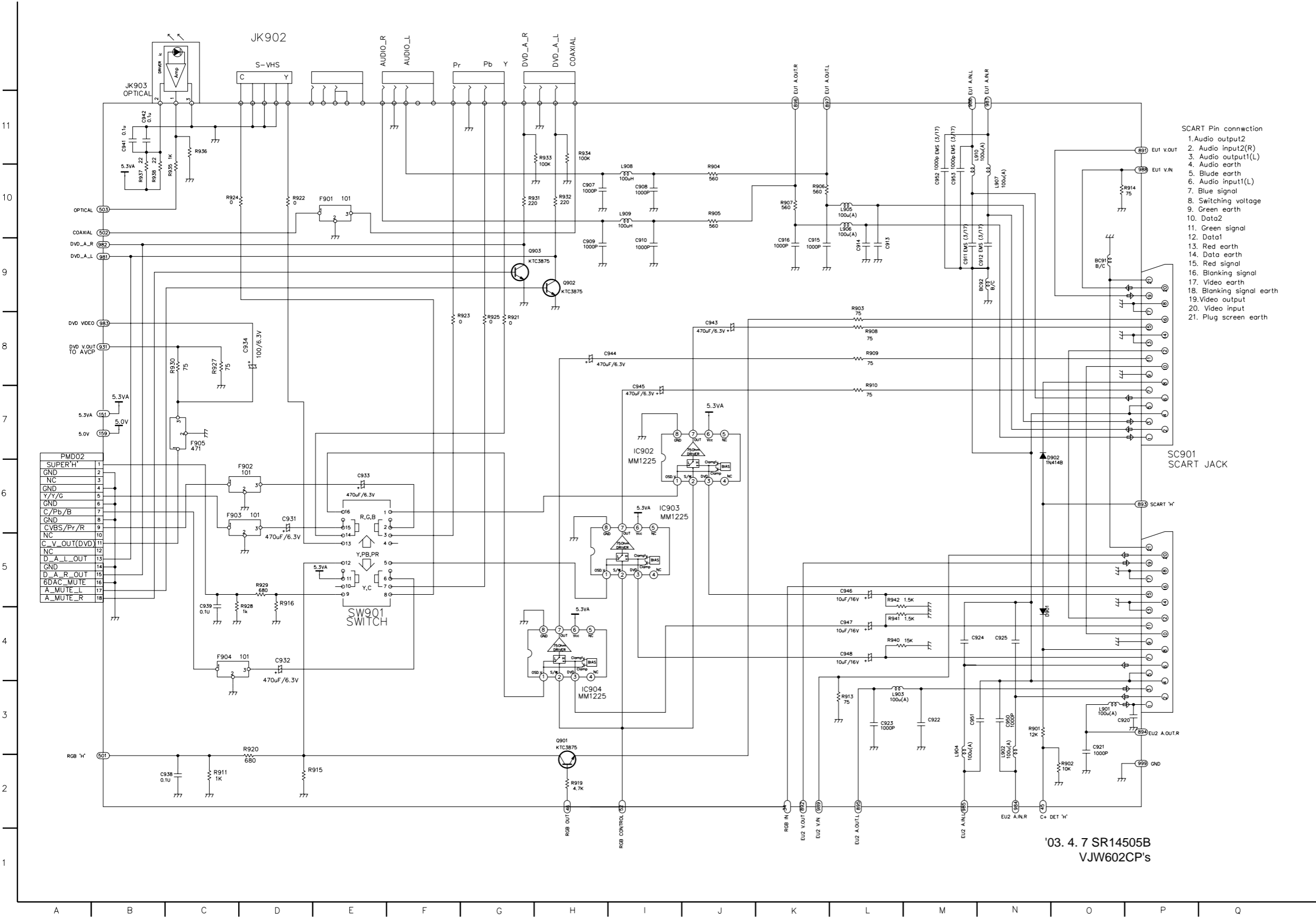
2. TU/IF, NICAM & A2 CIRCUIT DIAGRAM



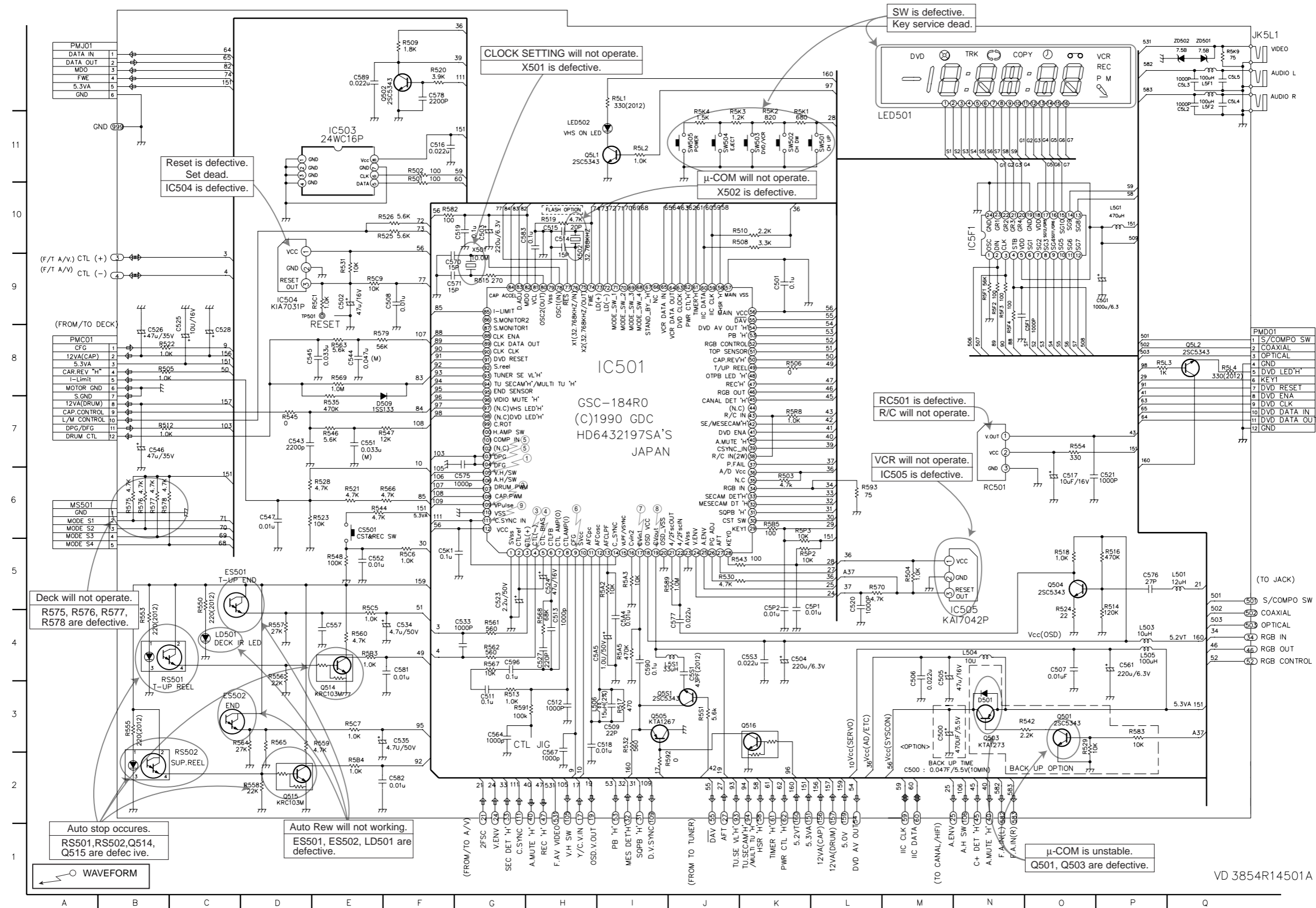
3. AV CIRCUIT DIAGRAM



5. SCART(JACK) CIRCUIT DIAGRAM

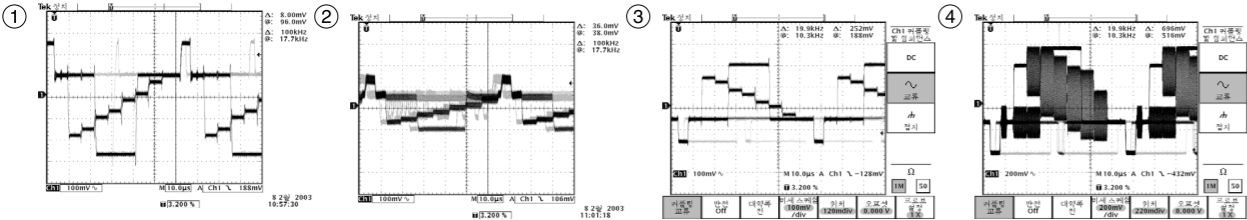


6. SYSTEM CIRCUIT DIAGRAM



• WAVEFORMS

* IC301 Waveform

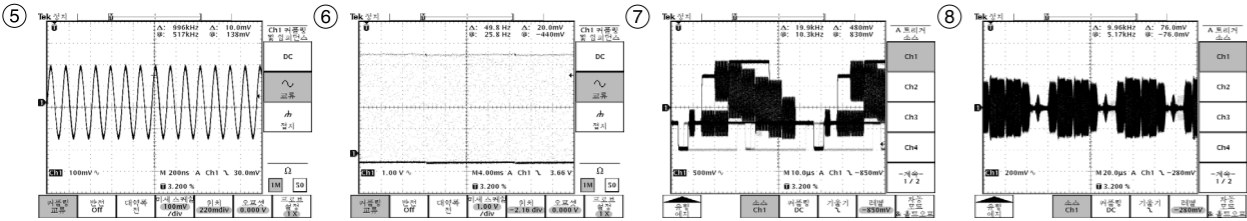


IC301 Pin 9
100mV/10msec DIV
VV/EE
(Main De-Emphasis out)

IC301 Pin 12
100mV/10msec DIV
PB
(Main De-Emphasis Peacking)

IC301 Pins 33, 36, 37
100mV/10msec DIV
VV/EE
Clamp Drive IN Pin 33
Y-out(to 1H CCD) Pin 36
Y-out(from 1H CCD) Pin 37

IC301 Pin 15
200mV/10msec DIV
EE
(VIDEO IN)

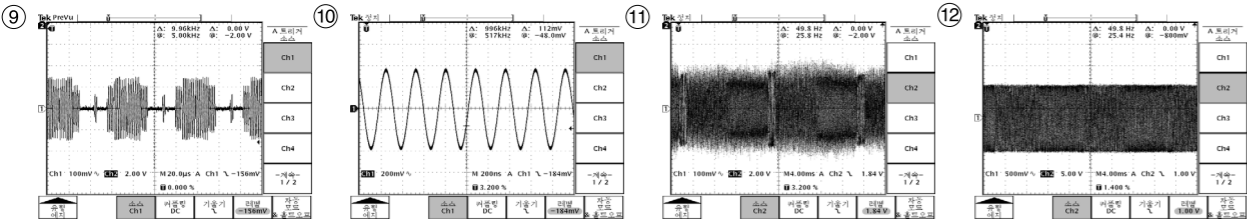


IC301 53 Pin
100mV/0.2msec DIV
REC/PB
(2fsc)

IC301 31 Pin
1.0V/20msec DIV
VV/EE
(C-SYNC OUT)

IC301 29 Pin
500mV/10msec DIV
VV/EE
(VIDEO OUT)

IC301 Pin 43
200mV/20msec DIV
PB
(C.OUT)

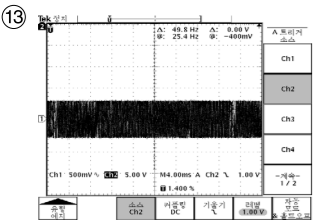


IC301 Pins 46, 57
200mV/20msec DIV
VV/EE
from 1H CCD Pin 46
to 1H CCD Pin 57

IC301 Pin 67
100mV/0.2msec DIV
PB/REC
(3.58MHz X-TAL IN)

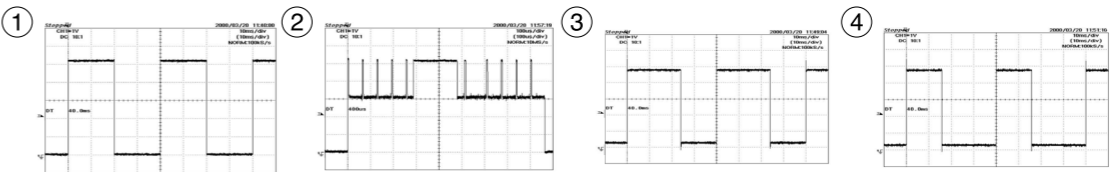
IC301 Pin 77
100mV/5msec DIV
PB
(PB RF out)

IC301 Pin 86
500mV/2msec DIV
SP REC
(REC RF)



IC301 Pin 90
500mV/2msec DIV
EP REC
(REC RF)

* IC501 Waveform

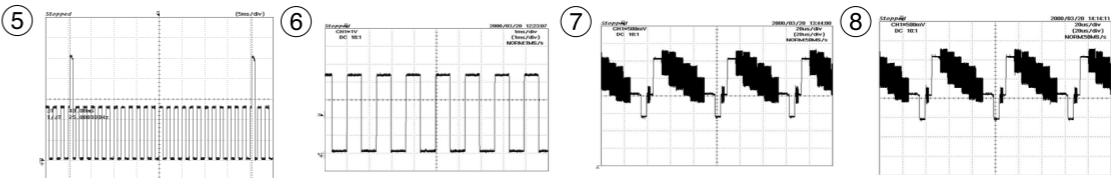


V.HSW
(IC501 Pin 105)
1V/10mS
REC/PB MODE

DV.SYNC
(IC501 PIN 109)
1V/100uS
QUE/REV MODE

CTL(+)
(IC501 Pin 3)
1V/10mS

CTL(-)
(IC501 Pin4)
1V/10mS

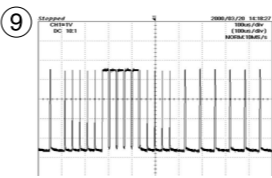


DFG/FG
(IC501 PIN 103,104)
1V/10mS
REC/PB MODE

CFG
(IC501 Pin9)
1V/10mS

V.IN
(IC501 Pin 17)
500mV/20uS

V.OUT
(IC501 Pin 19)
500mV/20uS
EE/PB MODE



C.SYNC
(IC501 Pin 111)
1.0V/100uS
EE/PB MODE

• CIRCUIT VOLTAGE CHART

MODE PIN NO.	EE	PB	REC
IC 201			
1	2.36 V	2.35 V	2.32 V
2	2.4 V	2.35 V	2.4 V
3	3.5 V	3.49 V	3.5 V
4	2.43 V	2.41 V	2.38 V
5	0.002 V	0.005 V	0.006 V
6	0.4 V	3.7 V	0.39 V
7	0.003 V	0.003 V	0.003 V
8	0.003 V	0.003 V	0.003 V
9	2.87 V	2.85 V	2.81 V
10	2.36 V	2.35V	2.32 V
11	3.16 V	3.13 V	3 V
12	3 V	1.7 V	3.03 V
13	4 V	4 V	4 V
14	2.3 V	2.3 V	2.25 V
15	2.98 V	1.78 V	2.93 V
16	3.2 V	3.2 V	3.2 V
17	0.15 V	3.86 V	0.017 V
18	0.124 V	3.38 V	0.127 V
19	2.23 V	2.23 V	2.23 V
20	3 V	3.3 V	3.3 V
21	1.84 V	2.34 V	2.35 V
22	4.71 V	0.002 V	0.007 V
23	4.72 V	4.69 V	4.64 V
24	4.72 V	4.69 V	4.63 V
25	2.37 V	2.26 V	2.37 V
26	2.37 V	2.25 V	2.36 V
27	3 V	2.86 V	3 V
28	0.182 V	0.187 V	0.182 V
29	0.46 V	0.62 V	0.85 V
30	1.95 V	1.94 V	1.91 V
IC 301			
1		0.00	0.06
2		0.06	0.06
3		0.01	0.02
4		5.15	5.10
5		2.61	2.10
6		2.54	0.00
7		2.84	2.84
8		1.35	1.85
9		1.34	1.85
10		1.90	2.39
11		3.04	2.64
12		0.01	1.69
13		0.01	0.01
14		2.40	2.78
15		0.01	0.01
16		1.92	0.31
17		2.80	2.80
18		1.89	1.95
19		2.80	2.80
20		0.01	0.02
21		2.80	2.80
22		5.14	5.10
23		2.34	2.32

MODE PIN NO.	EE	PB	REC
24		0.88	0.52
25		2.13	2.13
26		2.81	3.01
27		0.92	0.51
28		0.03	0.03
29		2.38	2.47
30		2.89	2.79
31		0.23	0.37
32		2.82	2.39
33		2.15	2.10
34		3.14	1.83
35		2.54	3.05
36		2.39	2.31
37		3.13	3.04
38		2.18	0.00
39		1.45	2.49
40		2.12	2.09
41		2.66	2.49
42		2.14	2.13
43		2.14	2.13
44		0.01	0.01
45		3.15	3.12
46		0.00	3.12
47		0.00	5.05
48		4.97	4.92
49		3.33	3.28
50		5.10	5.05
51		2.11	2.03
52		5.10	5.05
53		2.63	2.61
54		0.01	0.01
55		2.02	1.99
56		0.01	0.01
57		2.18	2.18
58		1.91	2.30
59		4.99	4.95
60		5.00	4.95
61		0.03	0.03
62		1.19	1.19
63		2.35	2.35
64		2.61	2.61
65		2.26	2.26
66		2.61	2.61
67		1.39	1.39
68		1.28	1.28
69		1.98	1.98
70		2.30	2.30
71		1.60	1.60
72		2.50	2.50
73		5.25	5.25
74		5.25	5.25
75		5.25	5.25
76		5.25	2.17
77		2.17	2.17
78		2.17	2.84

MODE PIN NO.	EE	PB	REC
79		0.03	0.03
80		0.01	0.01
81		0.01	0.01
82		0.01	0.01
83		2.50	2.50
84		5.05	5.05
85		2.29	2.29
86		2.29	2.29
87		2.29	2.47
88		0.01	0.01
89		2.28	5.02
90		2.28	0.03
91		2.28	0.03
92		5.11	5.06
93		2.54	2.05
94		2.54	2.55
95		2.52	2.53
96		2.50	2.53
97		0.01	0.02
98		2.55	2.27
99		0.01	0.01
100		2.54	2.57
IC 5 F1			
1	2.33 V	2.31 V	2.3 V
2	4.98 V	4.9 V	4.9 V
3	5 V	5 V	5 V
4	4.96 V	4.9 V	4.9 V
5	4.89 V	4.85 V	4.8 V
6	0.64 V	0.59 V	0.6 V
7	0.64 V	0.59 V	0.6 V
8	0.64 V	0.61 V	0.6 V
9	0.73 V	0.93 V	0.96 V
10	1 V	0.92 V	0.91 V
11	0.72 V	0.63 V	0.92 V
12	1.83 V	1.84 V	1.8 V
13	0.73 V	0.75 V	0.72 V
14	1.26 V	1.22 V	1.2 V
15	1.26 V	1.23 V	1.1 V
16	1.65 V	1.63 V	1.54 V
17	1.58 V	1.58 V	1.42 V
18	4.89 V	4.8 V	4.8 V
19	0.002 V	0.003 V	0.003 V
20	1.75 V	1.63 V	1.5 V
21	1.7 V	1.7 V	1.5 V
22	1.78 V	1.71 V	1.5 V
23	1.73 V	1.6 V	1.41 V
24	0.002 V	0.003 V	0.003 V
IC 751			
1	5.1 V	5.1 V	5.08 V
2	1.5 V	1.5 V	1.51 V
3	1.5 V	1.5 V	1.5 V
4	0.002 V	0.003 V	0.003 V
5	2.5 V	2.46 V	2.46 V
6	2.44 V	2. 44 V	2.43 V
7	1.84 V	1.89 V	2.06 V

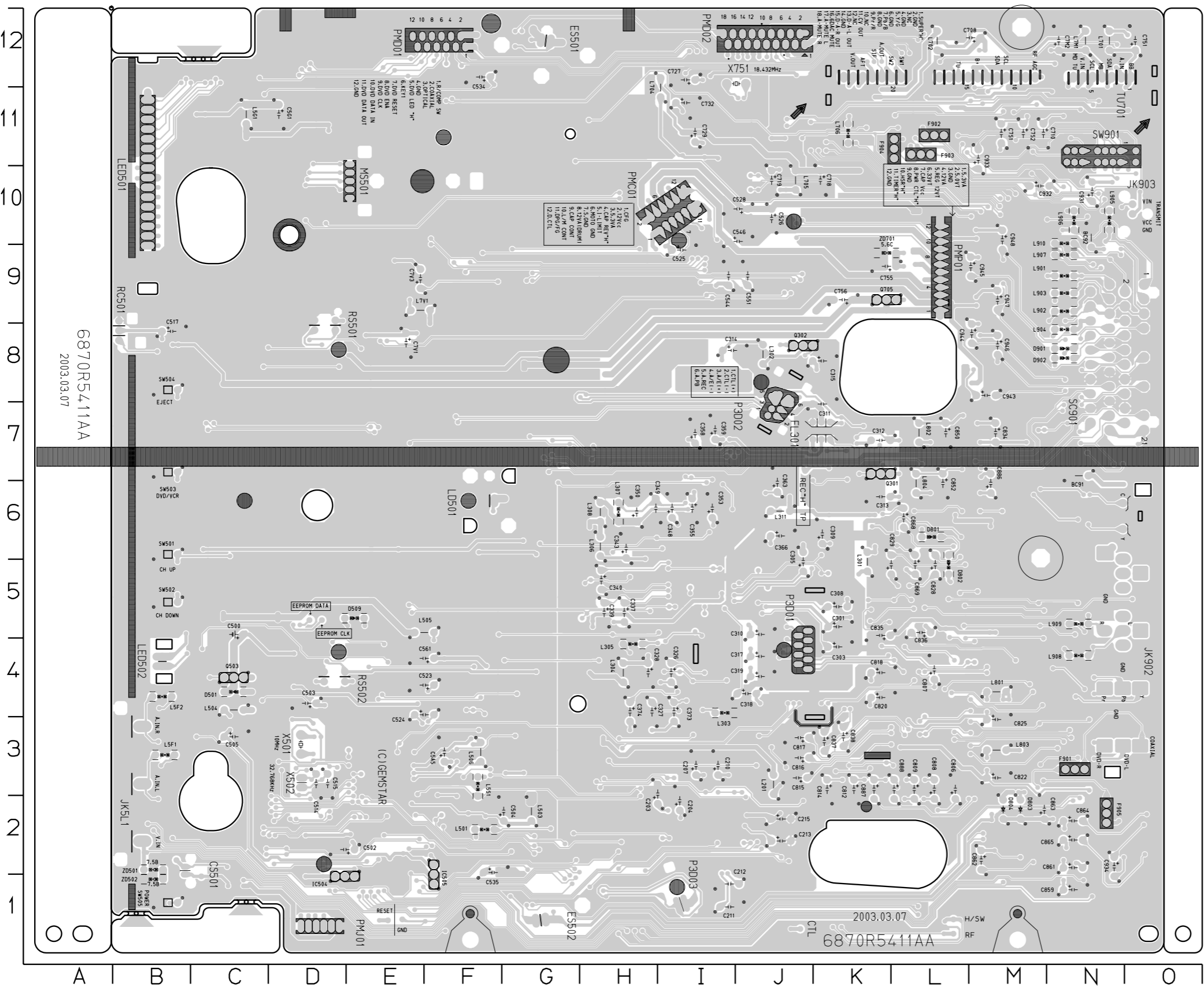
MODE PIN NO.	EE	PB	REC
8	1.86 V	0.004 V	0.004 V
9	1.86 V	0.004 V	0.004 V
10	0.002 V	0.003 V	0.003 V
11	5.12 V	5.12 V	5.11 V
12	4.8 V	4.8 V	4.8 V
13	4.7 V	4.75 V	4.7 V
14	1.75V	2.6 V	2.59 V
15	1.77 V	2.6 V	2.6 V
16	1.77 V	5 V	5 V
17	1.75 V	1.5 V	2.06 V
18	1.75 V	1.5 V	2 V
19	5 V	5 V	5 V
20	0.003 V	0.003 V	0.003 V
21	1.88 V	1.58 V	2 V
22	5.1 V	5.1 V	5.11 V
23	0.002 V	0.005 V	0.004 V
24	0.002 V	0.005 V	0.005 V
25	0.002 V	0.003 V	0.003 V
26	0.05 V	0.051 V	0.051 V
27	0.05 V	0.05 V	0.05 V
28	0.002 V	0.003 V	0.005 V
29	0.002 V	0.003 V	0.003 V
30	2.78 V	2.77 V	2.76 V
31	2.78 V	1.9 V	2.76 V
32	0.002 V	0.003 V	0.005 V
33	5.1 V	5.09 V	5.08 V
34	4.06 V	4.08 V	4.06 V
35	0.003 V	0.003 V	0.003 V
36	2.77 V	2.76 V	2.76 V
37	0.002 V	0.002 V	0.002 V
38	0.002 V	0.003 V	0.002 V
39	0.002 V	0.003 V	0.002 V
40	2.76 V	2.75 V	2.75 V
41	2.76 V	2.75 V	2.75 V
42	2.59 V	2.59 V	2.6 V
43	2.35 V	2.35 V	2.35 V
44	0.003 V	0.003 V	0.003 V
IC 501			
1	0.002 V	0.002 V	0.002 V
2	2.56 V	2.55 V	2.55 V
3	2.56 V	2.55 V	2.9 V
4	2.56 V	2.55 V	2 V
5	2.56 V	2.55 V	2.55 V
6	2.56 V	2.56 V	2.55 V
7	2.64 V	2.63 V	2.6 V
8	2.54 V	2.53 V	2.52 V
9	0.064 V	2.27 V	2.26 V
10	5.13 V	5.12 V	5.11 V
11	1.69 V	1.68 V	1.66 V
12	1.7 V	1.7 V	1.67 V
13	2.32 V	2 V	2.3 V
14	0.48 V	0.08 V	0.53 V
15	1.28 V	1.29 V	1.36 V
16	1.84 V	1.83 V	1.8 V
17	2.32 V	3 V	2.26 V

MODE PIN NO.	EE	PB	REC
18	4.7 V	4,7 V	4.6 V
19	2.19 V	3 V	2.13 V
20	0.01 V	0.009 V	0.01 V
21	2.2 V	2.2 V	2.16 V
22	2.32 V	2.3 V	2.26 V
23	0.01 V	0.009 V	0.01 V
24	0.3 V	2.84 V	0.012 V
25	0.08 V	3.4 V	0.068 V
26	5.14 V	5.13 V	5.12 V
27	4.2 V	4.16 v	3.93 V
28	5.13 V	5.13 V	5.11 V
29	5.13 V	5.13 V	5.11 V
30	0.004 V	0.002 V	0.003 V
31	0.002 V	0.002 V	0.002 V
32	0.002 V	0.002 V	0.002 V
33	0.18 V	0.18 V	0.18 V
34	1.37 V	1.3 V	1.42 V
35	5.14 V	5.13 V	5.1 V
36	5.14 V	5.13 V	5.1 V
37	4.74 V	4.73 V	4.7 V
38	4.74 V	4.75 V	4.7 V
39	2.45 V	4.9 V	2.33V
40	5 V	0.003 V	4.96 V
41	2.28 V	1.55 V	1.42 V
42	0.003 V	0.003 V	0.004 V
43	4.76 V	4.75 V	4.73 V
44	0.003 V	0.003 V	0.004 V
45	(-)0.001 V	(-)0.001 V	(-)0.001 V
46	0.003 V	0.003 V	0.004 V
47	0.003 V	0.003 V	5 V
48	0.003 V	0.003 V	0.004 V
49	5.14 V	0~5 V	0.005~5 V
50	5.1 V	0.003 V	0.004 V
51	4.38 V	0.03 V	0.035 V
52	0.031 V	5.06 V	0.038 V
53	0.003 V	0.003 V	0.004 V
54	5.1 V	5 V	5 V
55	5.1 V	5.13 V	5.11 V
56	5.1 V	5,1 V	5.1 V
57	0.002 V	0.002 V	0.002 V
58	0.003 V	0.004 V	0.004 V
59	4.8 V	4.8 V	4.8 V
60	4.7 V	4.7 V	4.9 V
61	4.7 V	5 V	5 V
62	5 V	5 V	5 V
63	1.8 V	1.3 V	1.68 V
64	5.1 V	5 V	5 V
65	1.78 V	5.1 V	1.66 V
66	5.1 V	5.1 V	5.08 V
67	0.004 V	4.4 V	5.08 V
68	0.001 V	5.1 V	0.005 V
69	0.001 V	5.1 V	5.12 V
70	5.14 V	5.1 V	5.12 V
71	5.14 V	0.001 V	0.001 V
72	0.028 V	0.028 V	0.029 V

MODE PIN NO.	EE	PB	REC
73	5 V	5.1 V	5 04 V
74	0.001 V	0.001 V	0.002 V
75	1.5 V	1 93 V	1.48 V
76	1.7 V	2 02 V	1.44 V
77	5.1 V	5.1 V	5 08 V
78	2.5 V	2 51 V	2 52 V
79	0.001 V	0.002 V	0.002 V
80	2 53 V	2.5 V	2.5 V
81	3.2 V	3.2 V	3.19 V
82	5.12 V	5.1 V	5.1 V
83	0.172 V	2.68 V	2 55 V
84	0.004 V	2.4 V	2.69 V
85	0.019 V	3.4 V	3.44 V
86	2 55 V	2 55 V	2 56 V
87	5.11 V	3.1 V	2 29 V
88	5.11 V	4 95 V	4.9 V
89	5.11 V	4 97 V	4.9 V
90	5.11 V	5 V	4 98 V
91	5.11 V	5.1 V	5 09 V
92	5.12 V	0.008-0.05 V	0.006 V
93	0.005 V	0.005 V	0.006 V
94	0.005 V	0.005 V	0.013 V
95	4 38 V	0 05 V	0.012 V
96	0.005 V	0.005 V	0.006 V
97	5.11 V	5.1 V	5 09 V
98	0.005 V	5.3 V	0.006 V
99	5.11 V	2 55 V	2 52 V
100	0.005 V	0.005 V	0.006 V
101	1 51 V	2.6 V	1 31 V
102	0.005 V	0.006 V	0.006 V
103	0.099 V	1 36 V	1 38 V
104	0.099 V	1 36 V	1 36 V
105	5.11 V	2 55 V	2 53 V
106	0.005 V	2 54 V	2 53 V
107	0.005 V	2.75 V	2.75 V
108	0.005 V	2 81 V	2.79 V
109	0.049 V	50.6 V	0 05 V
110	0.002 V	0.002 V	0.002 V
111	0.48 V	0.6 V	0 55 V
112	5.12 V	5.11 V	5.1 V
IC801			
1	3.8 V	3 81 V	3 82 V
2	3.8 V	3 82 V	3 82 V
3	3.8 V	3 82 V	3 82 V
4	3.8 V	3 82 V	3 82 V
5	3.8 V	3 82 V	3 82 V
6	3.8 V	3 82 V	3 82 V
7	3.8 V	3 82 V	3 82 V
8	3.8 V	3 82 V	3 82 V
9	3.8 V	3 82 V	3 82 V
10	3.8 V	3 82 V	3 82 V
11	3.8 V	3 82 V	3 82 V
12	0.054 V	~	0.048 V
13	3 87 V	3.8 V	3 99 V
14	0.008 V	0.003 V	0.011 V

PRINTED CIRCUIT DIAGRAMS

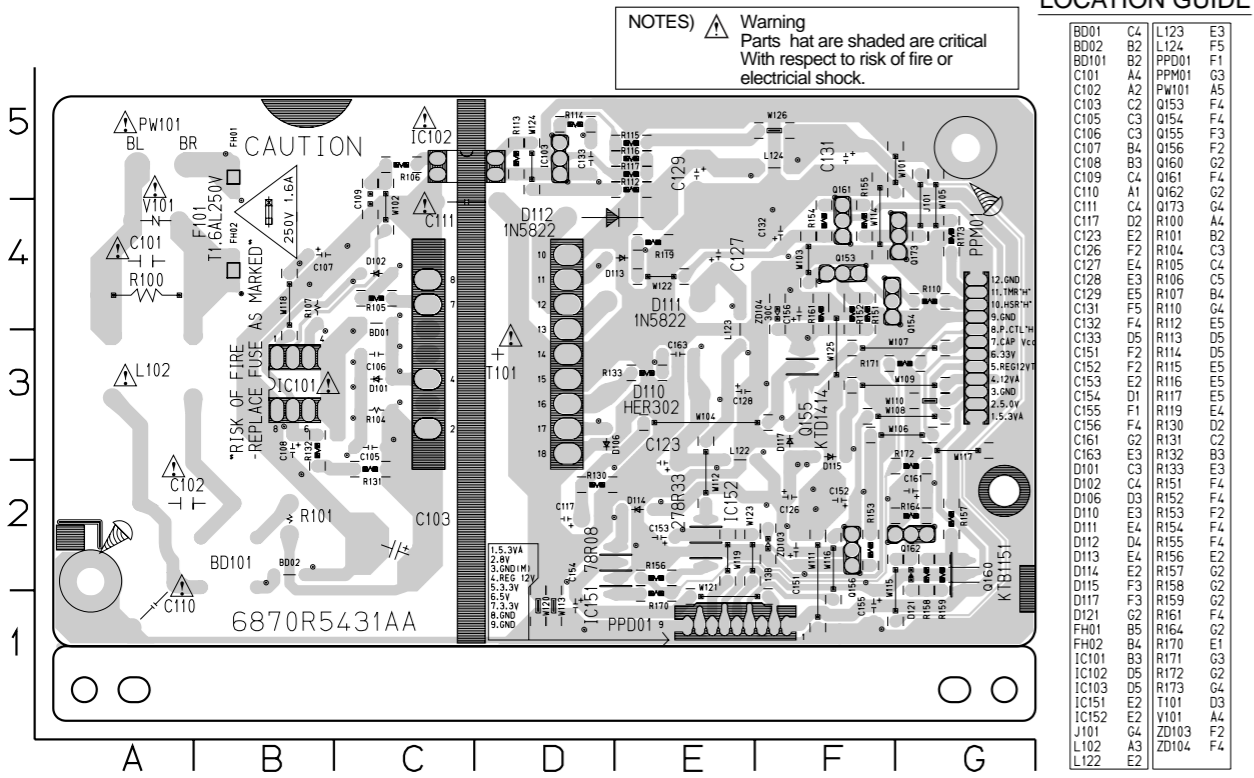
1. MAIN P.C.BOARD



LOCATION GUIDE

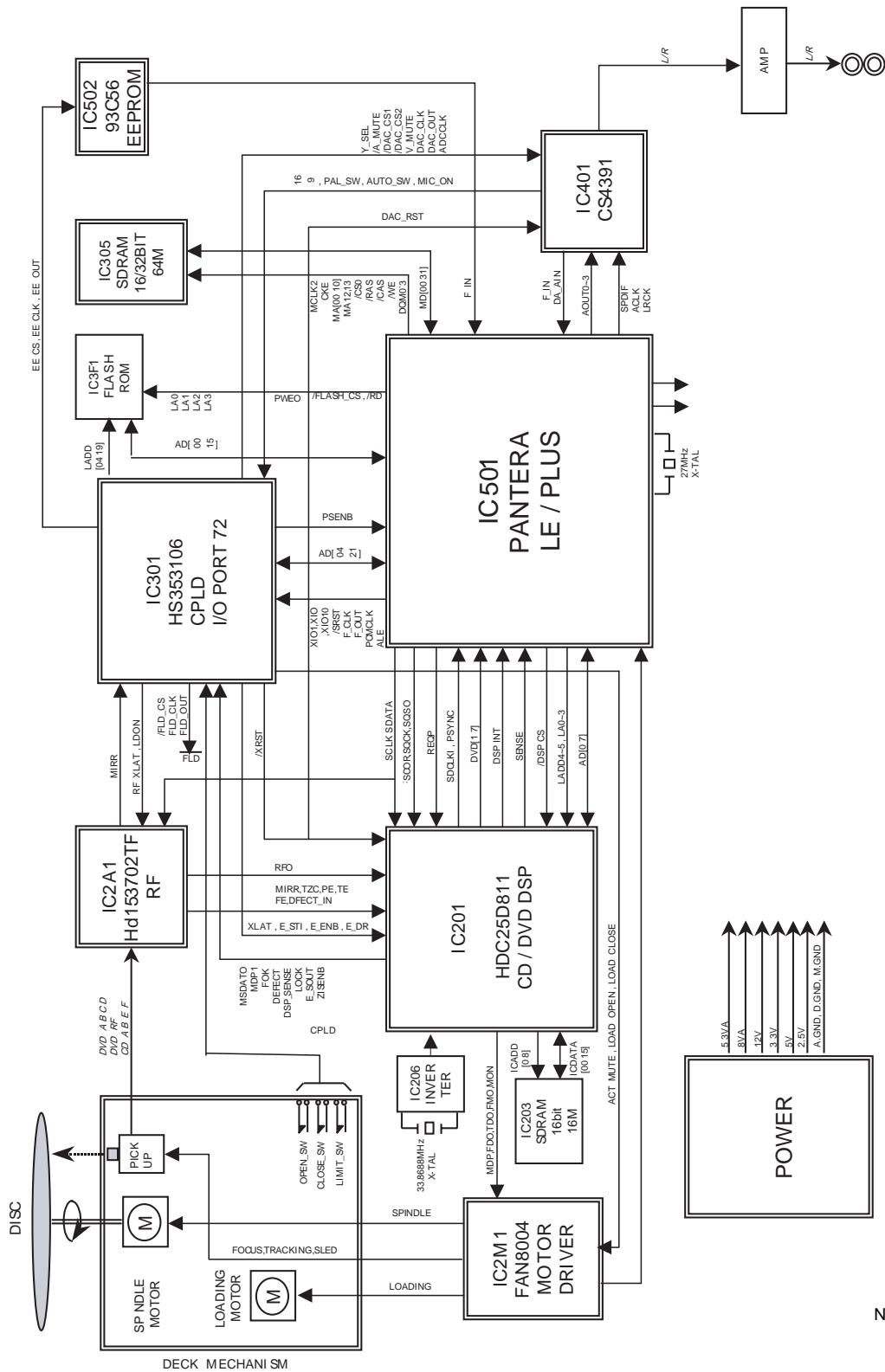
N7	8C61	J6	C551	D2	C838	K3	C501	I5	Q306	K6	R505	H6	R5F3	C11	R6E4	L5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							</
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2. SMPS P.C.BOARD



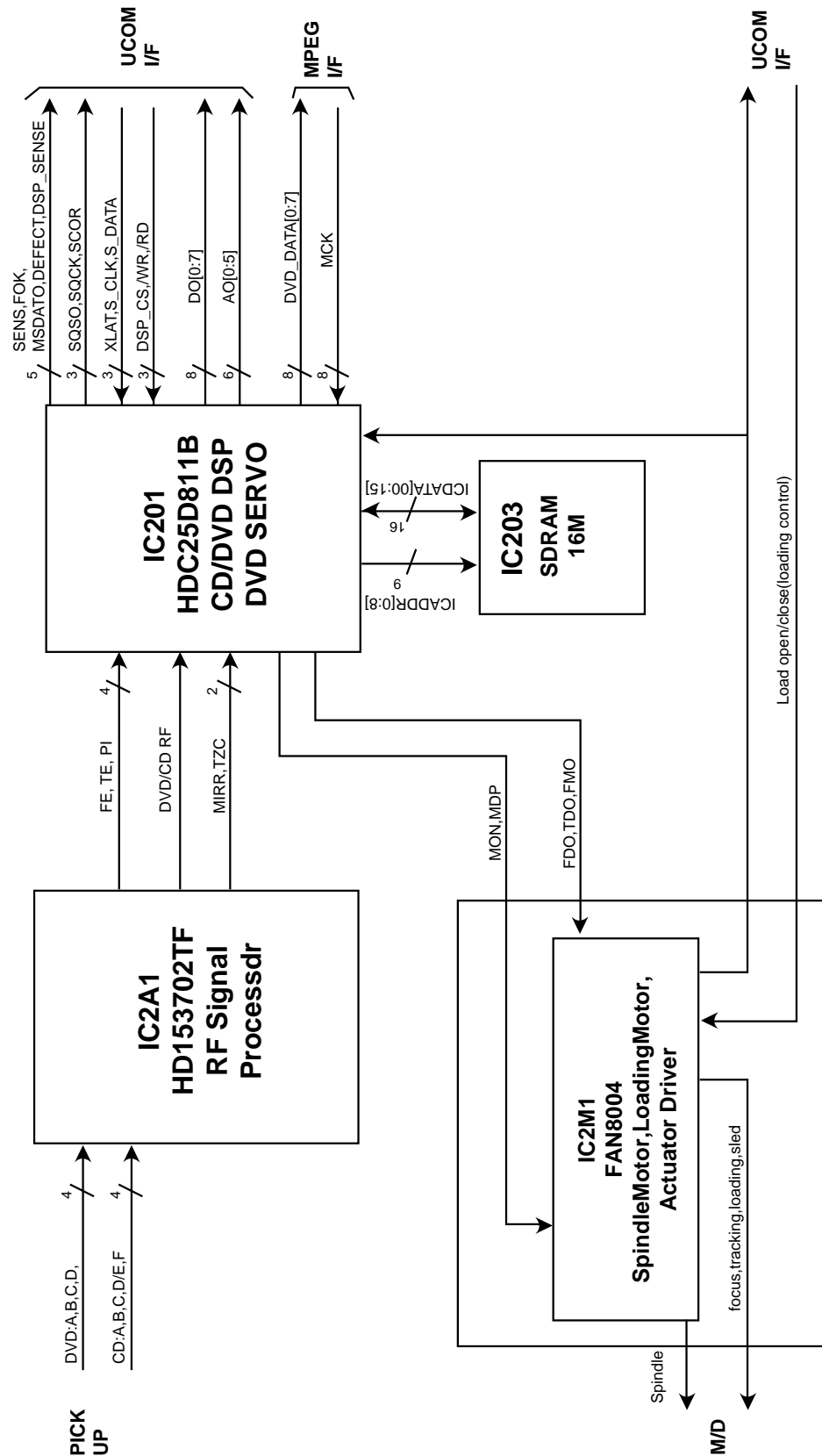
BLOCK DIAGRAMS

1. DVD OVERALL BLOCK DIAGRAM



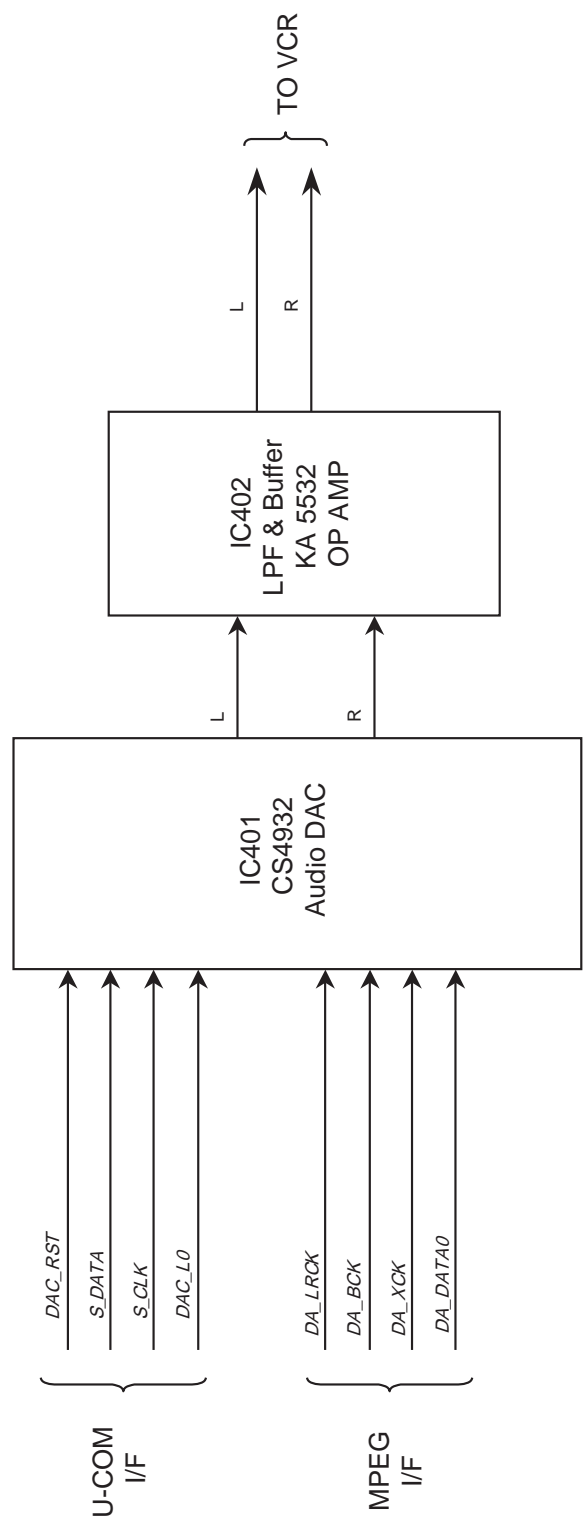
NS

2. RF/CD DSP/DVD DSP/DVD SERVO BLOCK DIAGRAM



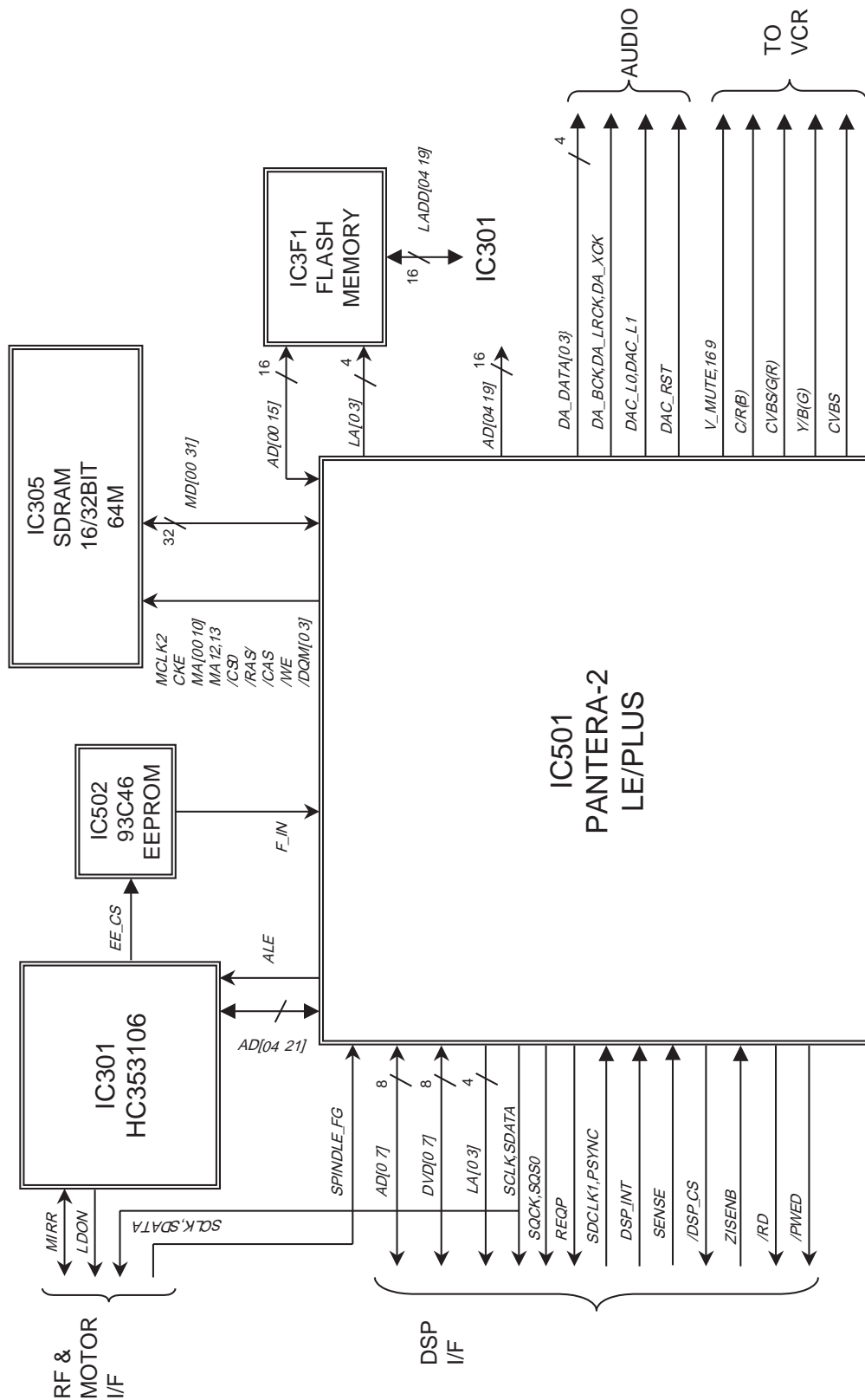
NS

3. AUDIO BLOCK DIAGRAM



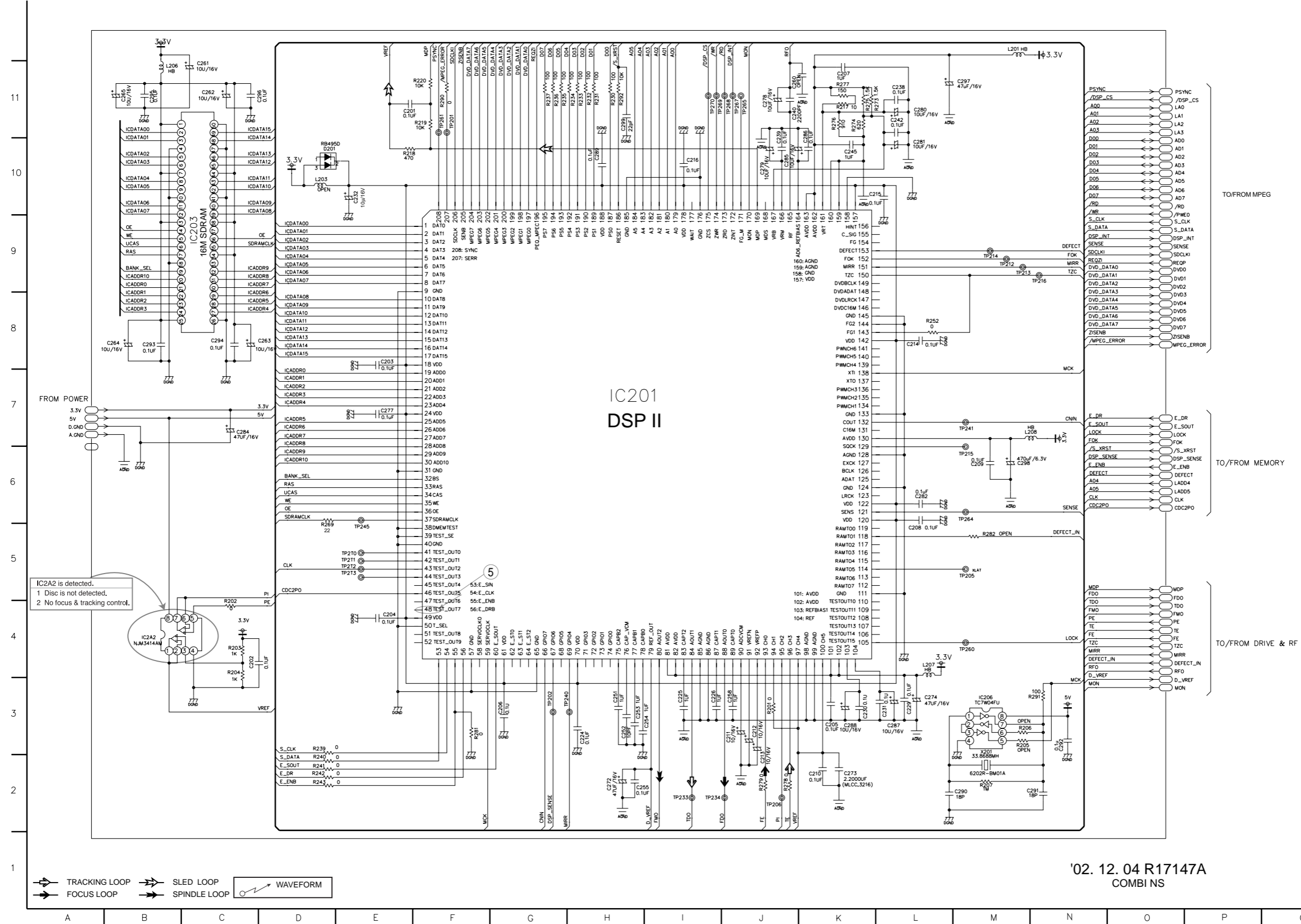
NS

4. MPEG BLOCK DIAGRAM

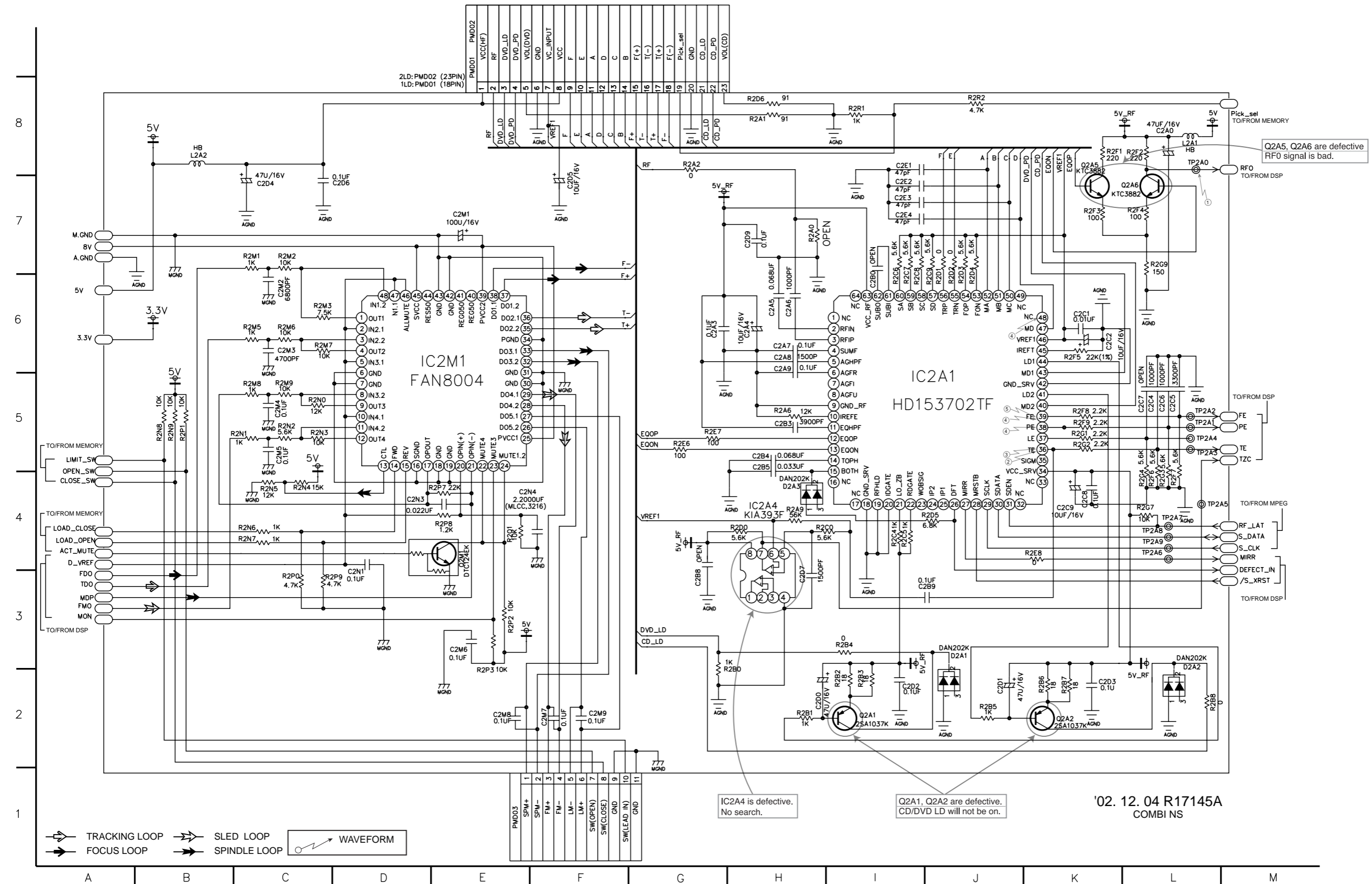


NS

1. DVD DSP CIRCUIT DIAGRAM

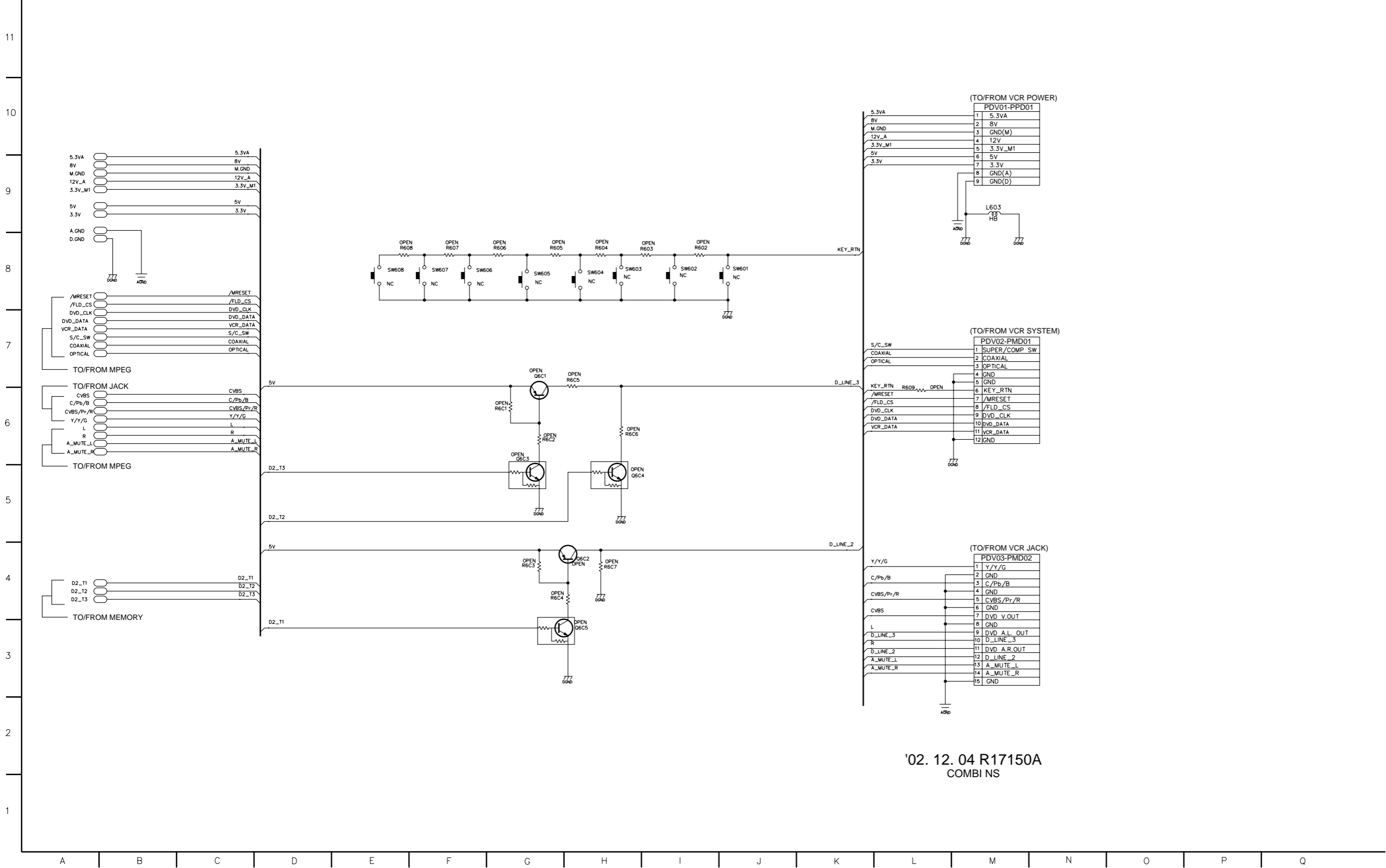


2. DRIVE & RF CIRCUIT DIAGRAM



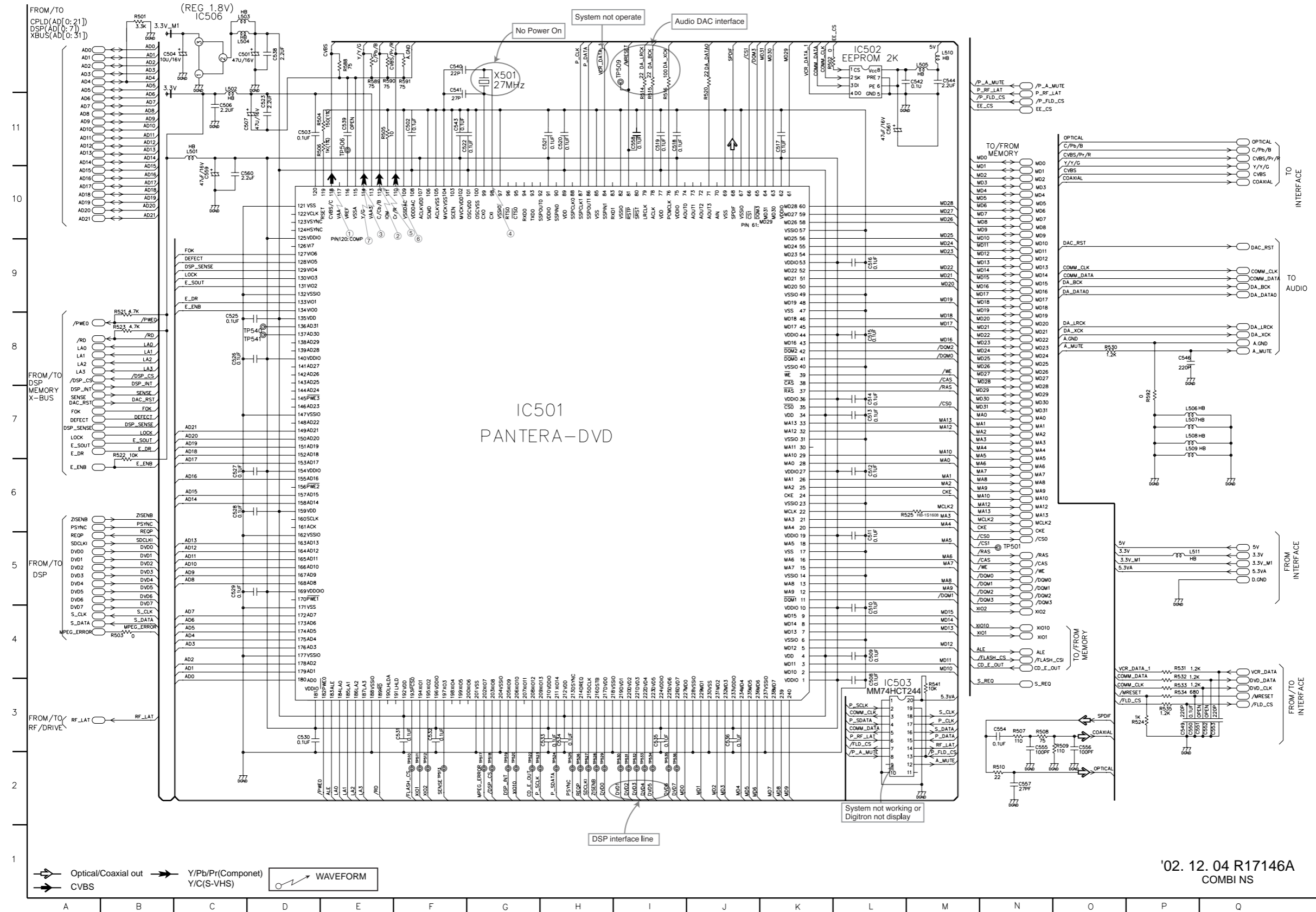
1
1
9
8
7
6
5
4
3
2
1

4. INTERFACE CIRCUIT DIAGRAM

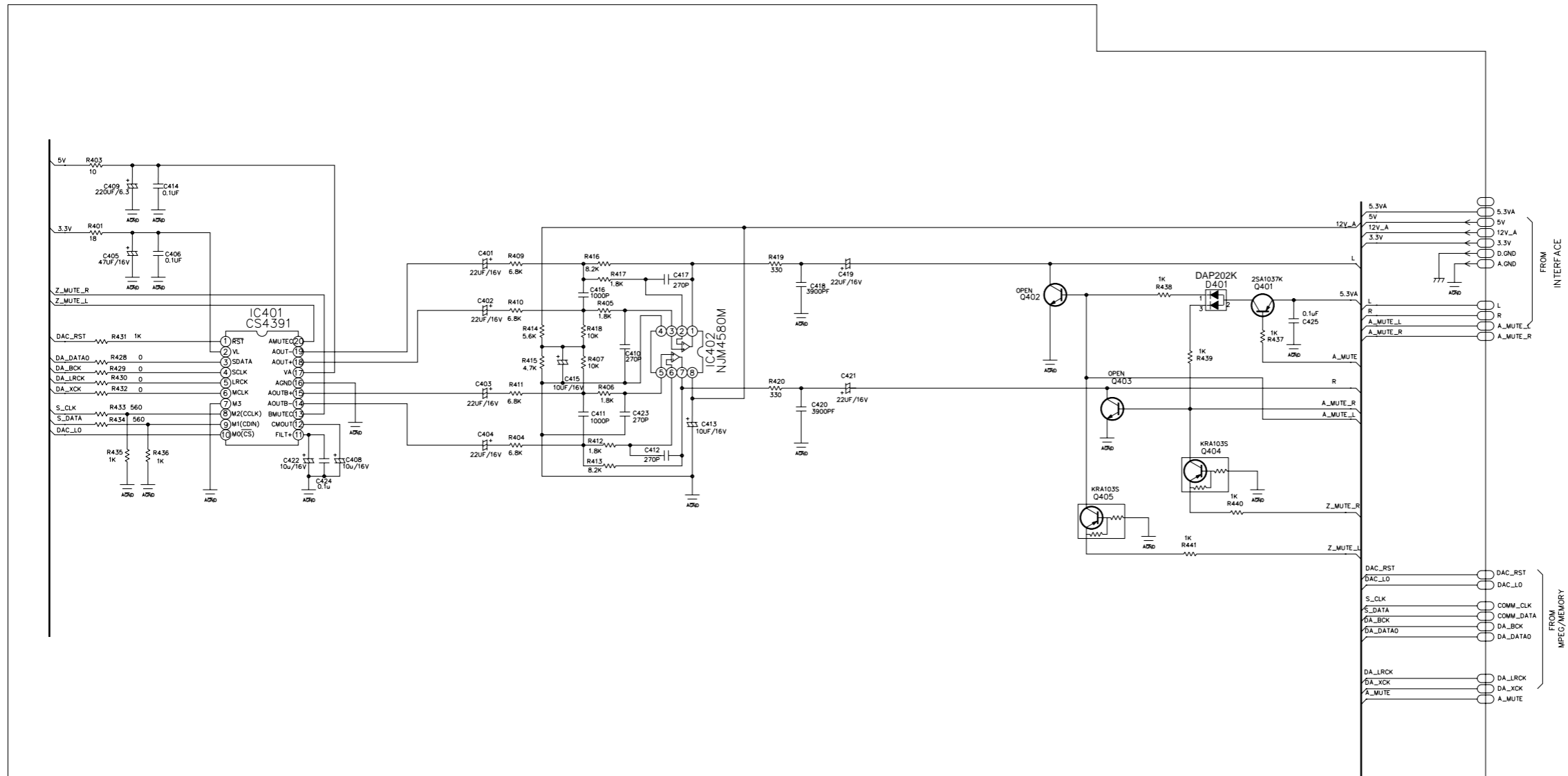


'02. 12. 04 R17150A
COMBI NS

5. μ -COM/EXPANDER CIRCUIT DIAGRAM

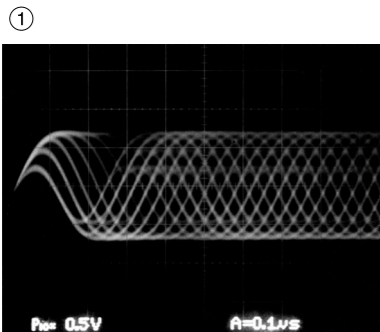


6. JACK CIRCUIT DIAGRAM

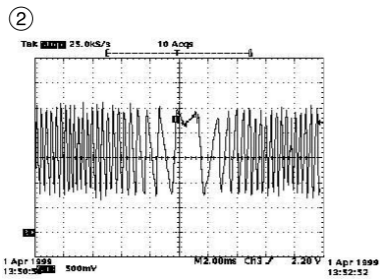


'02. 12. 04 R17149A
COMBI NS

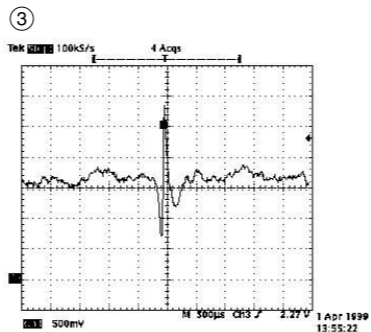
• WAVEFORMS



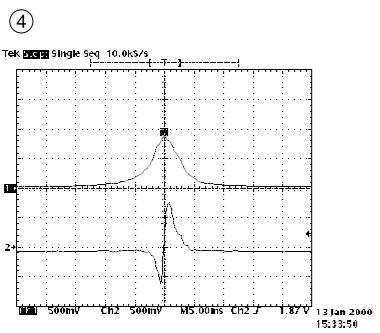
IC2A1
TP2A0



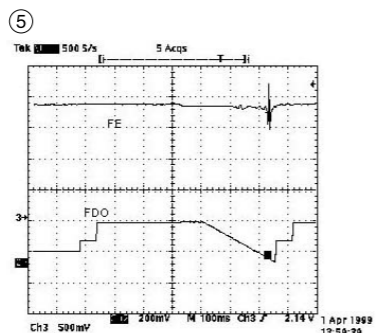
IC2A1 Pin 36
Tracking Error



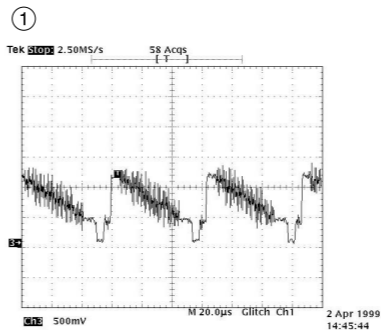
IC2A1 Pin 36
VBR TRACKING Error



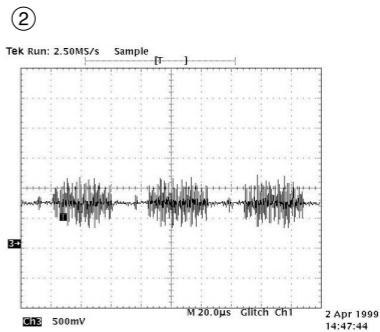
IC2A1 Pin 39, Focus Error
IC2A1 Pin 38, PE



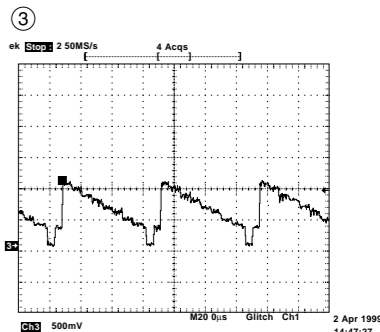
IC2A1 Pin 39, Focus Error(in Focus Search)
IC201 Pin 48, Focus Drive(FDO)



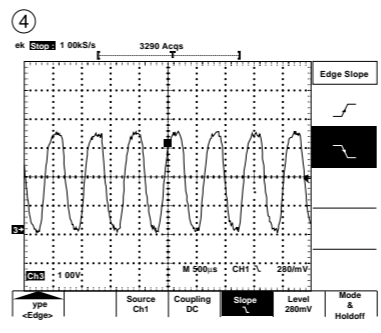
IC501 Pin 118, Composite



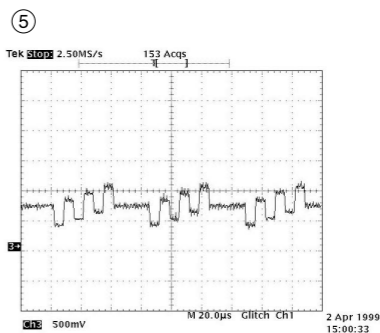
IC501 Pin 112, Chrominance
(Super video out Mode)



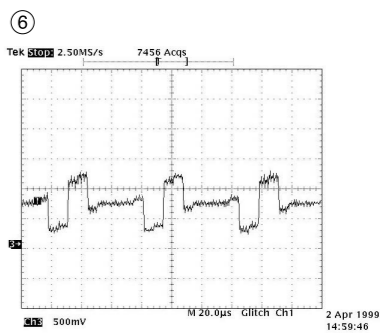
IC501 Pin 114, Luminance
(Super video out Mode)



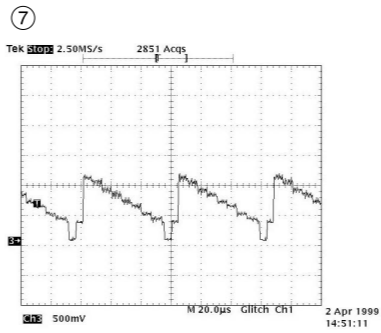
IC501 Pin 98,
MPEG Clock(27MHz)



IC501 Pin 112
Component Pb



IC501 Pin 110
Component Pr



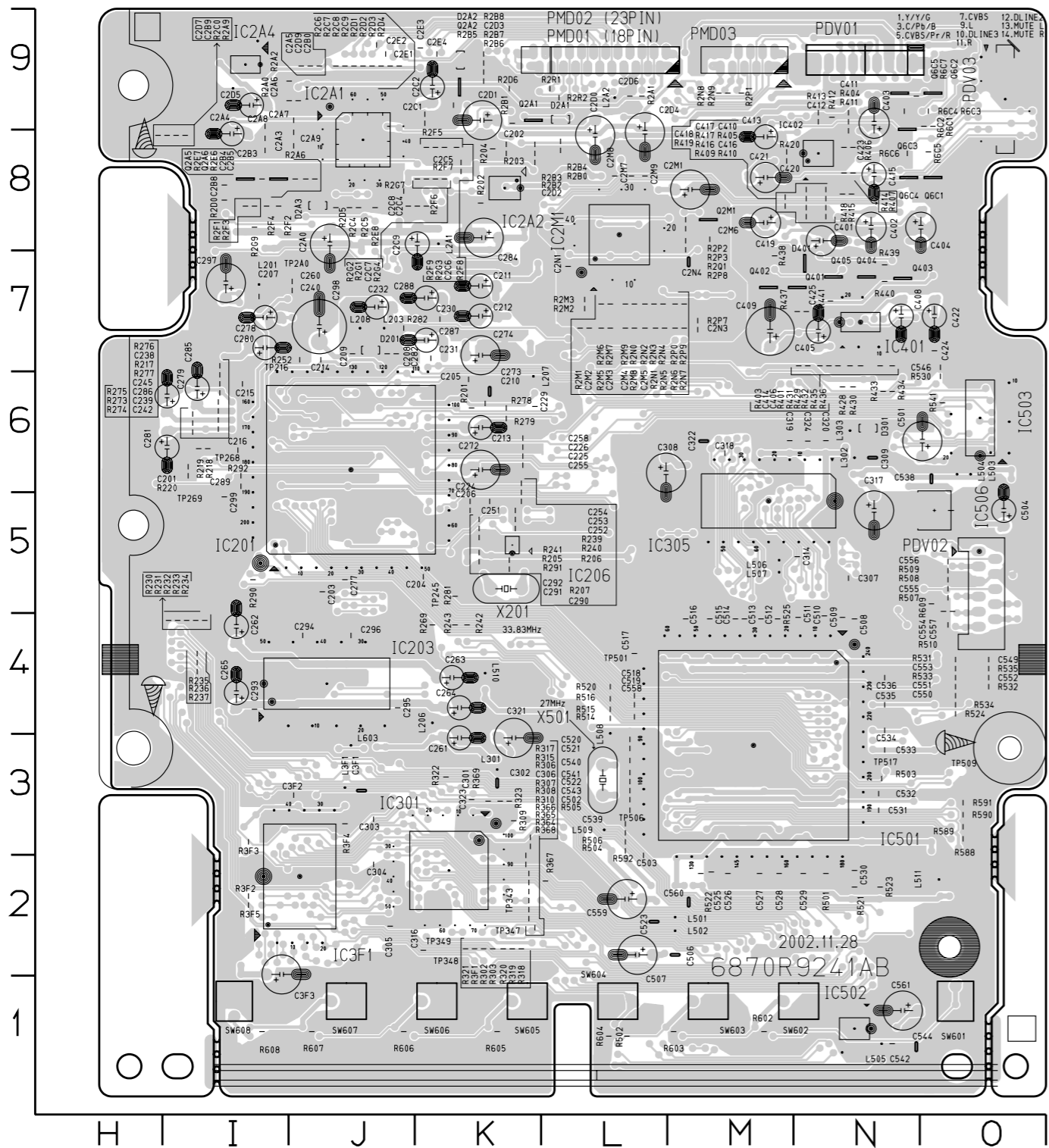
IC501 Pin 114
Component Y

• CIRCUIT VOLTAGE CHART

MODE PIN NO.	STOP	PLAY	MODE PIN NO.	EE	PLAY	MODE PIN NO.	EE	PLAY	MODE PIN NO.	EE	PLAY	MODE PIN NO.	EE	PLAY	MODE PIN NO.	EE	PLAY	MODE PIN NO.	EE	PLAY	MODE PIN NO.	EE	PLAY	MODE PIN NO.	EE	PLAY	MODE PIN NO.	EE	PLAY	MODE PIN NO.	EE	PLAY
D S P			54	5.72	5.18	109	2.00	1.64	164	2.31	2.07	S E R V O			26	4.33	0.00	32	0.00	0.00	87	0.00	0.00	40	0.00	0.00	87	0.00	0.00	40	0.00	0.00
I C 2 0 1			55	0.02	0.00	110	2.40	1.60	165	2.38	0.00	I C 2 A 1			27	4.32	4.01	33	0.00	0.00	88	3.26	3.26	41	0.00	0.00	88	3.26	3.26	41	0.00	0.00
1	3.21	3.07	56	3.21	3.21	111	0.02	0.00	166	2.39	2.14	1	0.00	0.00	28	4.33	4.05	34	0.00	0.00	89	3.18	3.31	42	0.06	0.00	89	3.18	3.31	42	0.06	0.00
2	3.21	3.05	57	0.02	0.00	112	0.02	0.00	167	1.80	1.61	2	3.24	3.02	29	4.36	3.97	35	0.00	0.00	90	3.25	3.26	43	2.94	0.00	90	3.25	3.26	43	2.94	0.00
3	3.21	3.07	58	1.80	1.59	113	0.02	0.00	168	3.08	0.00	3	3.24	3.01	30	0.10	0.00	36	0.00	0.00	91	0.00	2.26	44	3.23	3.23	91	0.00	2.26	44	3.23	3.23
4	3.21	3.02	59	2.38	0.00	114	0.02	0.00	169	0.02	2.06	4	1.85	1.99	31	0.01	0.13	37	0.00	0.00	92	3.26	3.26	45	1.14	0.05	92	3.26	3.26	45	1.14	0.05
5	3.21	3.05	60	0.02	0.00	115	0.02	0.00	170	0.04	0.00	5	3.35	3.17	32	4.23	4.92	38	3.26	3.26	93	3.26	3.26	46	0.69	0.04	93	3.26	3.26	46	0.69	0.04
6	3.21	3.04	61	3.21	3.01	116	0.02	0.00	171	3.03	2.54	6	2.63	2.43	33	4.50	0.00	39	0.00	0.00	94	0.00	0.00	47	0.00	0.00	94	0.00	0.00	47	0.00	0.00
7	3.21	3.05	62	3.21	0.00	117	0.02	0.00	172	3.21	0.00	7	1.10	0.30	34	0.00	0.00	40	0.00	0.00	95	1.69	1.68	48	0.60	0.28	95	1.69	1.68	48	0.60	0.28
8	3.21	3.05	63	3.21	3.21	118	0.02	0.00	173	3.21	0.00	8	1.10	0.30	35	1.71	0.00	41	0.00	0.00	96	0.00	0.00	49	0.00	0.00	96	0.00	0.00	49	0.00	0.00
9	0.00	3.05	64	0.02	0.00	119	0.02	0.00	174	3.21	0.00	9	0.00	0.80	36	1.78	4.00	42	0.00	0.00	97	3.26	3.26	50	0.74	0.79	97	3.26	3.26	50	0.74	0.79
10	3.21	0.00	65	0.02	0.00	120	3.21	3.22	175	3.21	3.21	10	1.24	1.18	37	1.73	4.21	43	0.00	0.00	98	3.26	3.26	51	0.50	0.67	98	3.26	3.26	51	0.50	0.67
11	3.21	3.04	66	0.87	1.19	121	0.70	3.22	176	0.02	0.00	11	2.54	2.27	38	1.74	3.75	44	0.00	0.00	99	5.05	5.04	52	0.49	0.80	99	5.05	5.04	52	0.49	0.80
12	3.21	0.00	67	0.01	1.90	122	3.21	3.22	177	3.21	0.00	12	3.38	3.13	39	1.92	0.00	45	0.00	0.00	100	0.00	0.00	53	3.23	3.23	100	0.00	0.00	53	3.23	3.23
13	3.21	0.00	68	3.21	3.21	123	3.21	1.61	178	3.21	3.21	13	3.34	3.09	40	1.91	7.89	46	0.00	0.00	M P E G			54	0.42	0.90	M P E G			54	0.42	0.90
14	3.21	0.00	69	1.07	1.55	124	0.02	0.00	179	3.21	3.13	14	2.52	2.70	41	0.00	0.00	47	0.00	0.00	I C 5 0 1			55	1.30	0.64	I C 5 0 1			55	1.30	0.64
15	3.21	3.03	70	3.21	0.00	125	3.21	1.64	180	0.02	0.00	15	2.64	1.95	42	0.00	0.00	48	0.00	0.00	1	3.23	3.21	56	0.48	0.45	1	3.23	3.21	56	0.48	0.45
16	3.21	3.05	71	0.02	0.00	126	3.21	1.61	181	0.02	0.00	16	0.01	0.14	43	0.00	0.00	49	0.00	0.00	2	0.63	0.00	57	0.00	0.00	2	0.63	0.00	57	0.00	0.00
17	3.21	3.04	72	3.21	0.00	127	3.00	0.00	182	0.02	0.00	17	0.02	0.00	44	0.00	0.00	50	0.00	0.00	3	0.53	0.00	58	0.55	0.62	3	0.53	0.00	58	0.55	0.62
18	3.21	0.00	73	0.02	0.00	128	0.02	0.00	183	0.02	0.00	18	0.01	0.00	45	1.94	0.00	51	3.26	3.26	4	1.76	1.76	59	0.67	0.60	4	1.76	1.76	59	0.67	0.60
19	3.21	0.00	74	0.02	0.00	129	3.21	2.35	184	0.02	0.00	19	0.01	0.00	46	2.33	2.15	52	3.25	1.32	5	3.23	0.68	60	1.11	0.69	5	3.23	0.68	60	1.11	0.69
20	3.21	0.00	75	0.87	0.00	130	3.21	3.25	185	0.02	0.00	20	0.01	0.00	47	2.33	0.00	53	2.39	2.82	6	0.00	0.00	61	0.58	0.18	6	0.00	0.00	61	0.58	0.18
21	3.21	0.00	76	1.59	0.00	131	3.21	1.59	186	3.21	3.25	21	5.41	5.01	48	2.06	2.15	54	0.00	0.00	7	0.00	0.00	62	3.23	3.22	7	0.00	0.00	62	3.23	3.22
22	0.01	0.00	77	0.87	0.00	132	0.84	0.02	187	1.50	1.05	22	5.41	5.01	I C 3 0 1			55	0.00	0.00	8	0.48	0.64	63	0.50	0.24	8	0.48	0.64	63	0.50	0.24
23	0.01	0.03	78	0.87	0.78	133	0.02	0.00	188	3.21	0.00	23	0.02	0.00	1	3.17	0.38	56	0.00	0.00	9	0.40	0.63	64	0.30	0.73	9	0.40	0.63	64	0.30	0.73
24	3.21	0.00	79	2.36	2.15	134	3.21	3.22	189	1.55	1.58	24	0.01	0.00	2	0.00	0.00	57	3.26	3.27	10	3.23	3.21	65	0.00	0.00	10	3.23	3.21	65	0.00	0.00
25	3.21	0.00	80	2.86	0.00	135	3.21	2.35	190	1.57	0.00	25	0.01	0.00	3	0.00	0.00	58	0.00	0.00	11	0.00	0.00	66	0.48	1.68	11	0.00	0.00	66	0.48	1.68
26	0.02	0.00	81	3.24	0.00	136	2.67	2.39	191	1.63	1.64	26	0.03	0.00	4	0.00	0.00	59	0.00	0.00	12	0.05	0.13	67	0.00	0.40	12	0.05	0.13	67	0.00	0.40
27	0.02	0.00	82	3.24	0.00	137	1.85	1.62	192	0.23	0.19	27	0.01	0.00	5	3.26	3.26	60	0.00	0.00	13	0.08	0.14	68	0.00	1.56	13	0.08	0.14	68	0.00	1.56
28	0.02	0.00	83	2.19	1.97	138	2.40	2.12	193	2.32	2.04	28	3.51	3.24	6	3.25	3.26	61	0.00	0.00	14	0.00	0.00	69	0.00	0.00	14	0.00	0.00	69	0.00	0.00
29	0.02	0.00	84	2.39	0.00	139	2.68	2.41	194	2.20	2.70	29	5.58	5.16	7	0.00	0.00	62	0.00	0.00	15	1.61	1.75	70	0.45	0.59	15	1.61	1.75	70	0.45	0.59
30	0.02	0.00	85	0.00	0.00	140	2.64	0.30	195	1.63	0.00	30	0.02	0.00	8	3.25	3.26	63	0.00	0.00	16	0.00	1.57	71	0.00	1.21	16	0.00	1.57	71	0.00	1.21
31	0.02	0.00	86	0.00	0.00	141	2.64	3.20	196	0.02	0.00	31	0.03	0.00	9	0.00	0.00	64	0.00	0.00	17	0.00	0.00	72	0.00	1.23	17	0.00	0.00	72	0.00	1.23
32	0.02	0.00	87	2.19	0.00	142	3.21	3.22	197	0.02	0.00	32	0.04	0.00	10	0.00	3.26	65	0.00	0.00	18	1.61	1.76	73	0.00	1.21	18	1.61	1.76	73	0.00	1.21
33	3.21	0.00	88	2.38	0.00	143	1.12	2.32	198	0.02	0.00	33	0.03	0.00	11	0.00	0.00	66	0.00	0.00	19	3.23	3.21	74	3.23	1.22	19	3.23	3.21	74	3.23	1.22
34	3.21	0.00	89	2.18	0.00	144	0.02	0.00	199	0.02	0.00	34	5.44	5.01	12	3.24	3.25	67	0.00	0.00	20	0.99	1.48	75	3.23	3.22	20	0.99	1.48	75	3.23	3.22
35	3.21	3.19	90	1.80	1.62	145	0.02	0.00	200	0.02	0.00	35	2.45	2.27	13	3.26	3.26	68	3.12	3.26	21	1.68	1.64	76	1.56	1.56	21	1.68	1.64	76	1.56	1.56
36	0.02	0.00	91	0.92	0.00	146	2.66	0.30	201	0.02	1.00	36	3.40	2.51	14	0.00	0.00	69	0.00	0.00	22	2.75	2.83	77	1.76	1.76	22	2.75	2.83	77	1.76	1.76
37	1.80	0.00	92	2.69	0.00	147	2.67	0.30	202	0.02	0.00	37	0.78	2.37	15	0.20	0.00	70	3.25	3.26	23	0.00	1.35	78	1.61	1.61	23	0.00	1.35	78	1.61	1.61
38	0.02	0.00	93	1.77	0.00	148	2.68	0.30	203	0.02	0.00	38	0.53	0.00	16	2.16	2.10	71	3.12	3.23	24	3.23	3.21	79	1.62	1.62	24	3.23	3.21	79	1.62	1.62
39	0.02	0.00	94	1.81	0.00	149	2.68	0.30	204	0.02	0.00	39	2.40	2.17	17	1.80	2.19	72	0.00	0.00	25	1.60	1.75	80	3.23	3.21	25	1.60	1.75	80	3.23	3.21
40	0.02	0.00	95	1.53	0.00	150	1.09	2.33	205	3.21	3.21	40	0.00	0.22	18	1.57	2.08	73	0.00	0.00	26	1.54	1.33	81	2.92	2.92	26	1.54	1.33	81	2.92	2.92
41	1.78	0.00	96	1.83	0.00	151	1.09	0.00	206	0.02	1.58	41	5.44	3.66	19	0.00	0.00	74	3.12	3.23	27	3.23	3.21									

PRINTED CIRCUIT DIAGRAMS

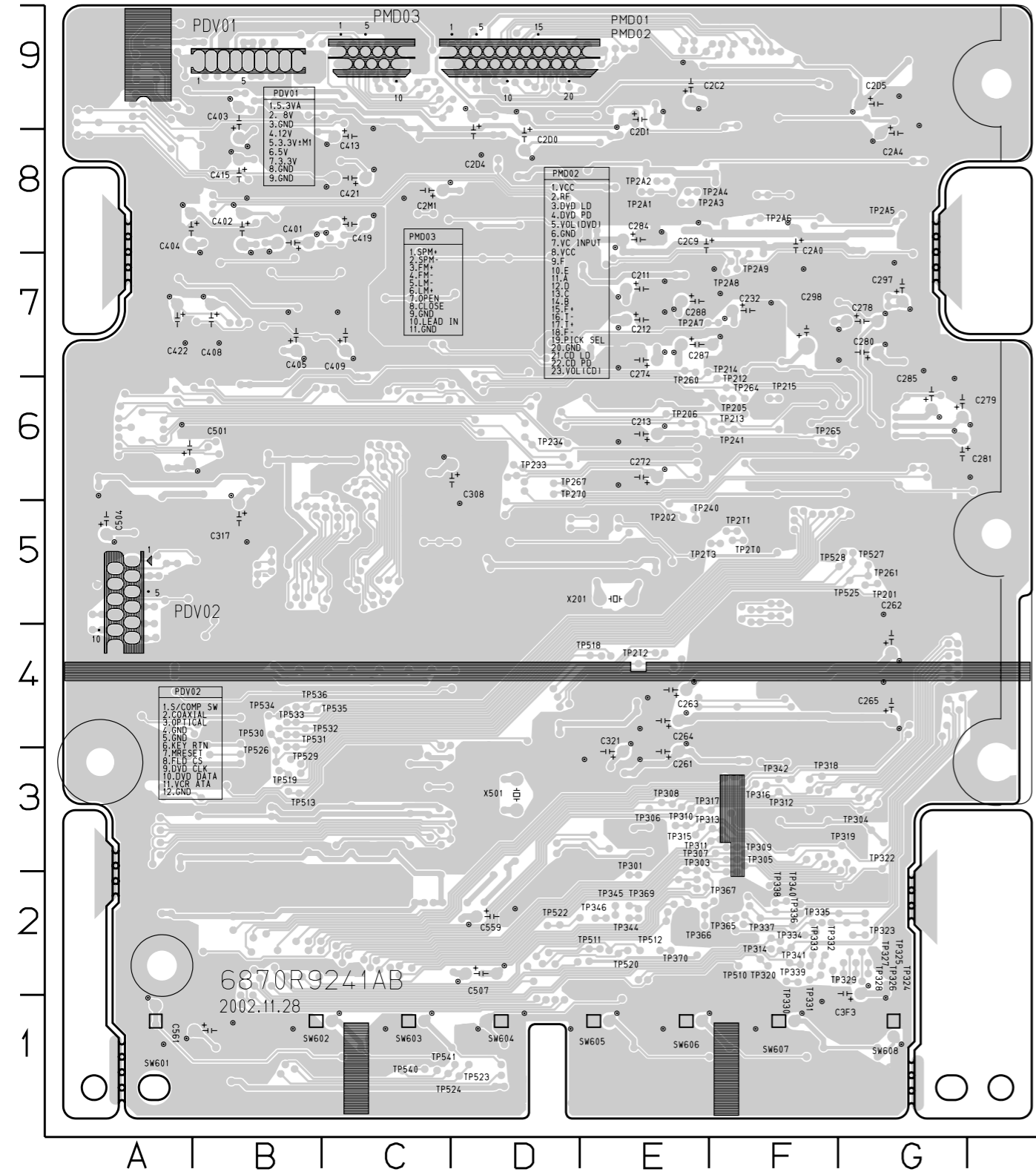
1. MAIN P.C.BOARD (TOP VIEW)



LOCATION GUIDE

C201	16	C293	14	C305	J2	C518	L4	IC502	N1	R230	14	R2F1	18	R364	K2	R522	M2
C202	K8	C294	J4	C306	K2	C519	L4	IC503	O6	R231	14	R2F2	18	R365	K2	R523	N2
C203	J5	C295	J4	C307	N5	C520	L3	IC506	O5	R232	14	R2F3	18	R366	K2	R524	O4
C204	K5	C296	J4	C308	L6	C521	L3	L201	17	R233	14	R2F4	18	R367	L2	R525	M4
C205	K6	C297	17	C309	N6	C522	L3	L203	J7	R234	14	R2F5	K9	R368	K2	R530	O6
C206	K5	C298	J7	C314	N5	C523	L2	L206	K4	R235	14	R2F6	K8	R369	K3	R531	O4
C207	17	C299	15	C316	K2	C525	M2	L207	K6	R236	14	R2F7	K8	R3F1	K2	R532	O4
C208	J7	C2A0	J8	C317	N5	C526	M2	L208	J7	R237	14	R2F8	K8	R3F2	I2	R533	O4
C209	J7	C2A3	18	C318	M6	C527	M2	L2A1	K8	R239	K5	R2F9	K8	R3F3	I3	R534	O4
C210	K6	C2A4	18	C319	M6	C528	M2	L2A2	L9	R240	K5	R2G1	K8	R3F4	J3	R535	O4
C211	K7	C2A5	J9	C320	N6	C529	N2	L301	K3	R241	K5	R2G2	K8	R3F5	I2	R541	O6
C212	K7	C2A6	J9	C321	K3	C530	N2	L302	N6	R242	K4	R2G3	K8	R401	N7	R588	O3
C213	K6	C2A7	J9	C322	M6	C531	N3	L303	N6	R243	K4	R2G4	K8	R403	N7	R589	O3
C214	J7	C2A8	19	C323	K3	C532	N3	L3F1	J3	R252	J7	R2G7	J8	R404	N9	R590	O3
C215	16	C2A9	J8	C324	N6	C533	N3	L501	M2	R269	K4	R2G9	18	R405	N8	R591	O3
C216	16	C2B0	J9	C3F1	J3	C534	N4	L502	M2	R273	16	R2M1	L7	R406	N8	R592	L3
C224	K5	C2B3	18	C3F2	J3	C535	N4	L503	O6	R274	16	R2M2	L7	R407	N8	R602	M1
C225	K6	C2B4	J8	C3F3	I2	C536	N4	L504	O6	R275	16	R2M3	L7	R409	N8	R603	M1
C226	K6	C2B5	J8	C401	N8	C538	O6	L505	N1	R276	17	R2M5	L7	R410	N8	R604	L1
C229	K6	C2B8	18	C402	N8	C539	L3	L506	M5	R277	16	R2M6	L7	R411	N8	R605	K1
C230	K7	C2B9	18	C403	N9	C540	L3	L507	M5	R278	K6	R2M7	L7	R412	N9	R606	J1
C231	K7	C2C1	K9	C404	O8	C541	L3	L508	L3	R279	K6	R2M8	L7	R413	N9	R607	J1
C232	J7	C2C2	K9	C405	N7	C542	N1	L509	L3	R281	K5	R2M9	L7	R414	N8	R608	I1
C238	16	C2C4	K8	C406	N7	C543	L3	L510	K2	R282	J7	R2N0	L7	R415	N8	R609	O5
C239	16	C2C5	K8	C408	N7	C544	N1	L511	O2	R290	15	R2N1	L7	R416	N8	R6C1	O9
C240	J7	C2C6	K8	C409	M7	C546	O7	L603	J3	R291	K5	R2N2	L7	R417	N8	R6C2	O9
C242	16	C2C7	K8	C410	N8	C549	O4	PDV01	N9	R292	16	R2N3	L7	R418	N8	R6C3	O9
C245	16	C2C8	J8	C411	N9	C550	O4	PDV02	O5	R2A0	J9	R2N4	L7	R419	M8	R6C4	N9
C251	K5	C2C9	K8	C412	N9	C551	O4	PDV03	O9	R2A1	J9	R2N5	L7	R420	M8	R6C5	O8
C252	K5	C2D0	L8	C413	M8	C552	O4	PMD01	L9	R2A2	J9	R2N6	M7	R428	N6	R6C6	N8
C253	K5	C2D1	K9	C414	N7	C553	O4	PMD02	L9	R2A6	J8	R2N7	M7	R429	N7	R6C7	N9
C254	K6	C2D2	K8	C415	N8	C554	O5	PMD03	M9	R2A9	18	R2N8	M9	R430	N6	SW601	O1
C255	K6	C2D3	K9	C416	N8	C555	O5	Q2A1	K9	R2B0	L8	R2N9	M9	R431	N7	SW602	N1
C258	K6	C2D4	L8	C417	N8	C556	O5	Q2A2	K9	R2B1	K9	R2P0	M7	R432	N7	SW603	M1
C260	J7	C2D5	19	C418	M8	C557	O5	Q2A5	18	R2B2	K8	R2P1	M9	R433	N6	SW604	L1
C261	K3	C2D6	L9	C419	M8	C558	L4	Q2A6	18	R2B3	K8	R2P2	M8	R434	N6	SW605	K1
C262	14	C2D7	H8	C420	M8	C559	L2	Q2M1	M8	R2B4	L8	R2P3	M8	R435	N7	SW606	K1
C263	K4	C2D9	J9	C421	M8	C560	M2	Q401	N7	R2B5	K9	R2P7	M7	R436	N7	SW607	J1
C264	K4	C2E1	J9	C422	O7	C561	N1	Q402	M7	R2B6	K9	R2P8	M8	R437	N7	SW608	I1
C265	14	C2E2	J9	C423	N8	D201	J7	Q403	N7	R2B7	K9	R2P9	M7	R438	M7	TP216	J7
C272	K6	C2E3	K9	C424	O7	D2A1	L9	Q404	N7	R2B8	K9	R2Q1	M8	R439	N7	TP245	K5
C273	K6	C2E4	K9	C425	N7	D2A2	K9	Q405	N7	R2C0	18	R2R1	L9	R440	N7	TP268	I6
C274	K7	C2M1	M8	C501	O6	D2A3	J8	Q6C1	O8	R2C4	J8	R2R2	L9	R441	N7	TP269	I6
C277	J5	C2M2	L7	C502	L3	D301	N6	Q6C2	O9	R2C5	J8	R302	K2	R501	N2	TP2A0	J7
C278	17	C2M3	L7	C503	L2	D401	N7	Q6C3	N8	R2C6	J9	R303	K2	R502	L1	TP343	K2
C279	16	C2M4	L7	C504	O5	IC201	J6	Q6C4	N8	R2C7	J9	R306	K2	R503	N3	TP347	K2
C280	17	C2M5	L7	C506	M2	IC203	J4	Q6C5	N9	R2C8	J9	R307	K2	R504	L3	TP348	K2
C281	16	C2M6	M8	C507	L2	IC206	K5	R201	K6	R2C9	J9	R308	K2	R505	L3	TP349	K2
C282	J7	C2M7	L8	C508	N4	IC2A1	J8	R202	K8	R2D0	18	R309	K3	R506	L3	TP501	L4
C284	K8	C2M8	L8	C509	N4	IC2A2	K8	R203	K8	R2D1	J9	R310	K2	R507	O5	TP506	L3
C285	16	C2M9	L8	C510	N4	IC2A4	19	R204	K8	R2D2	J9	R315	K3	R508	O5	TP509	O3
C286	16	C2N1	L7	C511	N4	IC2M1	L8	R205	K5	R2D3	J9	R317	K3	R509	O5	TP517	N3
C287	K7	C2N3	M7	C512	M4	IC301	K2	R206	K5	R2D4	J9	R318	K2	R510	O4	X201	K5
C288	K7	C2N4	M7	C513	M4	IC305	M5	R207	K5	R2D5	J8	R319	K2	R514	L4	X501	L3
C289	16	C301	K3	C514	M4	IC3F1	J2	R217	16	R2D6	K9	R320	K2	R515	L4		
C290	K5	C302	K3	C515	M4	IC401	N7	R218	16	R2E6	J8	R321	K2	R516	L4		
C291	K5	C303	J3	C516	M4	IC402	N8	R219	16	R2E7	18	R322	K3	R520	L4		
C292	K5	C304	J2	C517	L4	IC501	M3	R220	16	R2E8	J8	R323	K3	R521	N2		

2. MAIN P.C.BOARD (BOTTOM VIEW)



LOCATION GUIDE

TP201	G5	TP324	G2
TP202	E5	TP325	G2
TP205	F6	TP326	G2
TP206	E6	TP327	G2
TP212	F6	TP328	G2
TP213	F6	TP329	F2
TP214	E7	TP330	F2
TP215	F6	TP331	F2
TP233	D6	TP332	F2
TP234	D6	TP333	F2
TP240	E5	TP334	F2
TP241	F6	TP335	F2
TP260	E7	TP336	F2
TP261	G5	TP337	F2
TP264	F6	TP338	F2
TP265	F6	TP339	F2
TP267	D6	TP340	F2
TP270	D6	TP341	F2
TP2A1	E8	TP342	F3
TP2A2	E8	TP344	E2
TP2A3	E8	TP345	E2
TP2A4	E8	TP346	E2
TP2A5	G8	TP365	F2
TP2A6	F8	TP366	E2
TP2A7	E7	TP367	F2
TP2A8	F7	TP369	E2
TP2A9	F7	TP370	E2
TP2T0	F5	TP510	F2
TP2T1	F5	TP511	E2
TP2T2	E4	TP512	E2
TP2T3	F5	TP513	B3
TP301	E2	TP518	E4
TP303	F3	TP519	B3
TP304	G3	TP520	E2
TP305	F3	TP522	D2
TP306	E3	TP523	D1
TP307	F3	TP524	C1
TP308	E3	TP525	G5
TP309	F3	TP526	B3
TP310	E3	TP527	G5
TP311	F3	TP528	B5
TP312	F3	TP529	G3
TP313	F3	TP530	B4
TP314	F2	TP531	B4
TP315	E3	TP532	B4
TP316	F3	TP533	B4
TP317	F3	TP534	B4
TP318	F3	TP535	B4
TP319	G3	TP536	B4
TP320	F2	TP540	C1
TP322	G3	TP541	C1
TP323	G2		