

VIDEO CASSETTE RECORDER

VHR-M261EV, VHR-M261SP

VHR-M291E, VHR-M291EV, VHR-M291IR

INDEX

1. SUMMARY

CABINET & MAIN CHASSIS

ELECTRICAL (ADJUSTMENT)

ELECTRICAL (TROUBLESHOOTING)

ELECTRICAL (BLOCK DIAGRAMS)

2. ELECTRICAL (CIRCUIT DIAGRAMS 1)

3. ELECTRICAL (CIRCUIT DIAGRAMS 2)

4. ELECTRICAL (PRINTED CIRCUIT BOARD 1)

5. ELECTRICAL (PRINTED CIRCUIT BOARD 2)

6. MECHANISM (PARTS LOCATIONS)

MECHANISM (DISASSEMBLY 1)

7. MECHANISM (DISASSEMBLY 2)

8. MECHANISM (DISASSEMBLY 3)

9. MECHANISM (ADJUSTMENT)

A. MECHANISM (MAINTENANCE/ INSPECTION PROCEDURE)

MECHANISM (TROUBLESHOOTING)

B. MECHANISM (EXPLODED VIEWS)

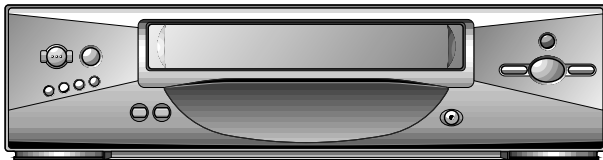
C. REPLACEMENT PARTS LIST

FILE NO.

SERVICE MANUAL

SANYO

Video Cassette Recorder



(VHR-M291EV)



VHR-M261EV

(Product Code : 143 182 15)
(Europe)

VHR-M271SP

(Product Code : 143 182 16)
(Spain, Portugal)

VHR-M291E

(Product Code : 143 182 12)
(U.K.)

VHR-M291EV

(Product Code : 143 182 14)
(Europe)

VHR-M291IR

(Product Code : 143 182 13)
(Ireland)

REFERENCE

MODEL NUMBER	DECODER	FRONT	REAR
VHR-M291E	NO	NO	2SCART
VHR-M291IR	NO	NO	2SCART
VHR-M271SP	CANAL	NO	2SCART
VHR-M261EV	NO	NO	1SCART
VHR-M291EV	NO	NO	1SCART

TABLE OF CONTENTS

SECTION 1 SUMMARY

KEY TO ABBREVIATIONS	1-1
IMPORTANT SAFETY PRECAUTIONS	1-2
• Precautions During Servicing	
SAFETY CHECK AFTER SERVICING	1-3
• Insulation resistance test	
• Dielectric strength test	
• Clearance distance	
• Leakage current test	
PROPOSAL FOR APPLYING SHORT PROTECTION	1-4
PROPOSAL FOR APPLYING SHORT SERVICE NOTICE ON REPLACING EEPROM ..	1-5
SPECIFICATIONS	1-6
LOCATION OF CUSTOMER CONTROLS	1-7

SECTION 2 CABINET & MAIN CHASSIS

SERVICE METHOD	2-1
Electrical Part	2-1
EXPLODED VIEWS	2-2
1. Cabinet & Main Frame Section	2-2
2. Packing & Accessory Remote Control Section ..	2-3

SECTION 3 ELECTRICAL

ELECTRICAL ADJUSTMENT POINTS ARRANGEMENT	3-1
ELECTRICAL ADJUSTMENT PROCEDURES ..	3-2
1. Servo Circuit	3-2
ELECTRICAL TROUBLESHOOTING GUIDE ...	3-3
1. Power Circuit(SMPS)	3-3
2. Servo Circuit	3-6
3. System & Front Panel Circuit	3-9
4. Y/C Circuit	3-11
5. Tuner/IF Circuit	3-15

BLOCK DIAGRAMS	3-17
1. Power Block Diagram	3-17
2. Tuner/IF, NICAM & A2 Block Diagram	3-19
3. Y/C Block Diagram	3-21
4. System Block Diagram	3-23
5. AUDIO Block Diagram	3-25
6. SCART Block Diagram	3-27
CIRCUIT DIAGRAMS	3-29
1. Power, Tuner, NICAM/A2 Circuit Diagram	3-29
2. A/V, SECAM, VPS Circuit Diagram	3-32
3. System Circuit Diagram	3-35
4. SCART Circuit Diagram	3-37
PRINTED CIRCUIT BOARD DIAGRAMS	3-39
1. MAIN P.C.Board	3-39
2. KEY 1 P.C.Board	3-41
3. KEY 2 P.C.Board	3-42

SECTION 4 MECHANISM

NOTE) The table of contents for this section is edited separately.

SECTION 5 REPLACEMENT PARTS LIST

• Mechanical Section	5-1
• Electrical Section	5-4

SECTION 1 SUMMARY

KEY TO ABBREVIATIONS

A	AC :Alternating Current	LPF :Low Pass Filter
	ACC :Automatic Color Control	M MAX :Maximum
	ACSS :Automatic Channel Setting System	MD :Modulator
	ADJ :Adjust	MECHA.CTL :Mechanism Control
	A/E :Audio Erase	MIC :Microphone
	AFC :Automatic Frequency Control	MIN :Minimum
	AFT :Automatic Fine Tuning	MIX :Mixer, Mixing
	AGC :Automatic Gain Control	M.M. :Monostable, Multivibrator
	A.H.SW :Audio Head Switch	MMV :Mono Multi Vibrator
	ALC :Automatic Level Control	MOD :Modulation, Modulator
	AM :Amplitude Modulation	MODEM :Modulator-Demodulator
	AMP :Amplifier	MPX :Multiplex
	ANT :Antenna	N NR :Noise Reduction
	APC :Automatic Phase Control	O OSC :Oscillator
	ASS'Y :Assembly	OSD :On Screen Display
	AUX :Auxiliary	P PB :Playback
B	B :Base	PCB :Printed Circuit Board
	BGP :Burst Gate Pulse	P.CTL :Power Control
	BPF :Bandpass Filter	PRE-AMP :Preamplifier
	BS :Broadcasting Satellite	P.F :Power Failure
	BW or B/W :Black and White	PG :Pulse Generator
C	C :Capacitor, Chroma, Collector	PLL :Phase Locked Loop
	CAN :Cancel	PREM.DET :Premire Detect
	CAP :Capstan	P.P :Peak-to-Peak
	CAP.BRK :Capstan Brake	PS :Phase Shift
	CAP.RVS :Capstan Reverse	PWM :Pulse Width Modulation
	CATV :Cable Television	PWR CTL :Power Control
	CBA :Circuit Board Assembly	Q Q :Transistor
	CCD :Charge Coupled Device	QH :Quasi Horizontal
	C.C.TL :Chro Control, Capstan Control	QSR :Quick Setting Record
	CFG :Capstan Frequency Generator	QTR :Quick Timer Record
	CHROMA :Chrominance	QV :Quasi Vertical
	CNR :Chroma Noise Redution	R R :Resistor, Right
	COMB :Combination	RE(or RC) :Remocon, Receiver
	Comb Filter	REC :Recording
	COMP :Comparator	REC S 'H' :Record Start 'High'
	Composite	REF :Reference
	Compensation	REG :Regulated, Regulator
	CONV :Converter	REMOCON :Remote Control(unit)
	C.ROT SW :Color Rotary Switch	RF :Radio Frequency
	CS :Chip Selcet	R/P :Record/Playback
	C.SYNC :Composite Synchronization	RTC :Reel Time Counter
	CTL DIV :Control Divide	S S :Serial
	CUR :Current	S.ACCEL :Slow Accel
	CYL :Cylinder	SAOP :Second Audio Program
D	D :Drum, Digital, Diode, Drain	SC :Scart, Simulcast
	D.ADJ :Drum Adjust	S.DET :Secam Detect
	DC :Direct Current	SH :Shift
	D.CTL :Drum Control	SHARP :Sharpness
	DEMOD :Demodulator	SIF :Sound Intermediate Frequency
	DET :Detector	SLD :Side Locking
	DEV :Deviation	S/N :Signal to Noise Ratio
	DHP :Double High Pass	SP :Standard Play
	DIGITRON :Digital Display Tube	ST :Stereo
	DL :Delay line	SUB :Subtract, Subcarrier
	DOC :Drop Out Compensator	SW or S/W :Switch
	DUB :Dubbing	SYNC :Synchronization
	D.V SYNC :Dummy Vertical Synchronization	SYSCON :System Control
E	E :Emitter	T T :Coil
	EE :Electric to Electric	TP :Test Point
	EMPH :Emphasis	TR :Transistor
	ENA :Enable	TRK :Tracking
	ENV :Envelope	TRANS :Transformer
	EP :Extended Play	TU :Tuner, Take-up
	EQ :Equalizer	U UHF :Ultra High Frequency
	EXP :Expander	UNREG :Unregulated
F	F :Fuse	V V :Volt, Vertical
	FB :Feed Back	VA :Always Voltage
	FBC :Feed Back Clamp	VCO :Voltage Controlled Oscillator
	FE :Full Erase	VGC :Voltage Gain Control
	FG :Frequency Generator	VHF :Very High Frequency
	FL :Filter	V.H.SW :Video Head Switch
	FM :Frequency Modulation	VISS :VHS Index Search
	F/R :Front/Rear	VPS :Video Program System
	FS :Frequency Synthesizer	VR :Variable Resistor or Volume
	FSC :Subcarrier Frequency	V-SYNC :Vertical Synchronization
	F/V :Frequency Voltage	VTG :Voltage
G	GEN :Generator	VV :Voltage to Voltage
H	H :High, Horizontal	VXO :Voltage X-tal Oscillator
I	IC :Integrated Circuit	W W :Watt
	IF :Intermediate Frequency	WHT :White
	INS :Insert	W/O :With out
L	L :Low, Left, Coil	X X-TAL :Crystal
	LD :LED	Y Y/C :Luminance/Chrominance
	LD VTG CTL :Loading Voltage Control	YNR :Luminance Noise Reduction
	LECHA :Letter Character	Z ZD :Zener Diode
	L.M :Level Meter	
	LP :Long Play	

IMPORTANT SAFETY PRECAUTIONS

Prior to shipment from the factory, the 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. Use Specified internal wiring. Note especially:
 - 1) Double insulated wires
 - 2) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers
 - 4) Insulation sheets for transistor
5. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)
6. Check that replaced wires do not contact sharp edged or pointed parts.
7.
 - 1) When a power cord has been replaced, check that A mark is made on the cord, under strain, near the aperture, and the flexible cord is subjected 100 times to a pull of 40N for a duration of 1 second each.
 - 2) During the test, the cord shall not be displaced by more than 2mm
8. Also check areas surrounding repaired locations.
9. The internal wiring is secured so as not to approach the heating parts and high voltage parts by its shape. So, these wires must be restored to its former state.

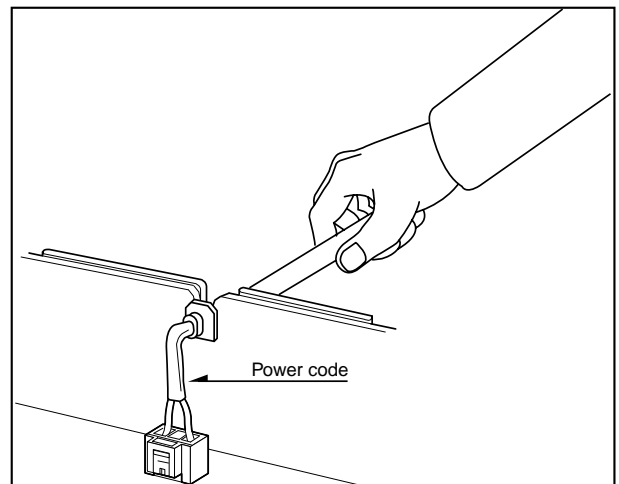


Fig. 1

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.

- **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, incrophone jacks, earphone jacks, etc.) See table below.

- **Dielectric strength test**

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

- **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 below.

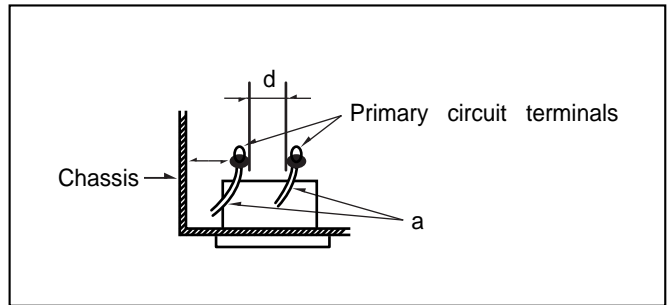


Fig. 2

Table 1 : Ratings for selected areas

AC Line Voltage	Region	Insulation Resistance	Dielectric Strength	Clearance Distance(d),(d)
*100 to 130 V 200 to 240 V	Europe Australia	F 10 MΩ/500 V DC	4kV 1 minute	F 6mm(d) F 8mm(d) (a Power cord)

* Class II model only.

Note. This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

- **Leakage Current test**

Confirm specified or lower leakage current between B(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 B(earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure and following table.

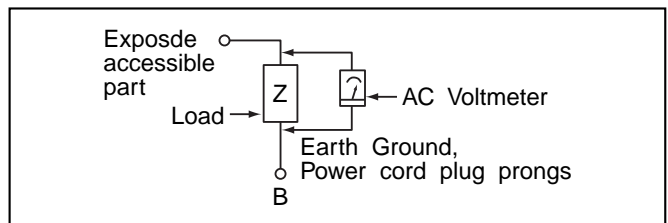


Fig. 3

Table 2:Leakage current ratings for selected areas.

AC Line Voltage	Region	Load Z	Leakage Current(i)	Earth Ground (B) to :
100 to 130 V	Europe	2kΩ	i E 0.7m A peak i E 2m A DC	Antenna earth terminals
200 to 240 V	Australia	50kΩ	i E 0.7m A peak i E 2m A DC	Other terminals

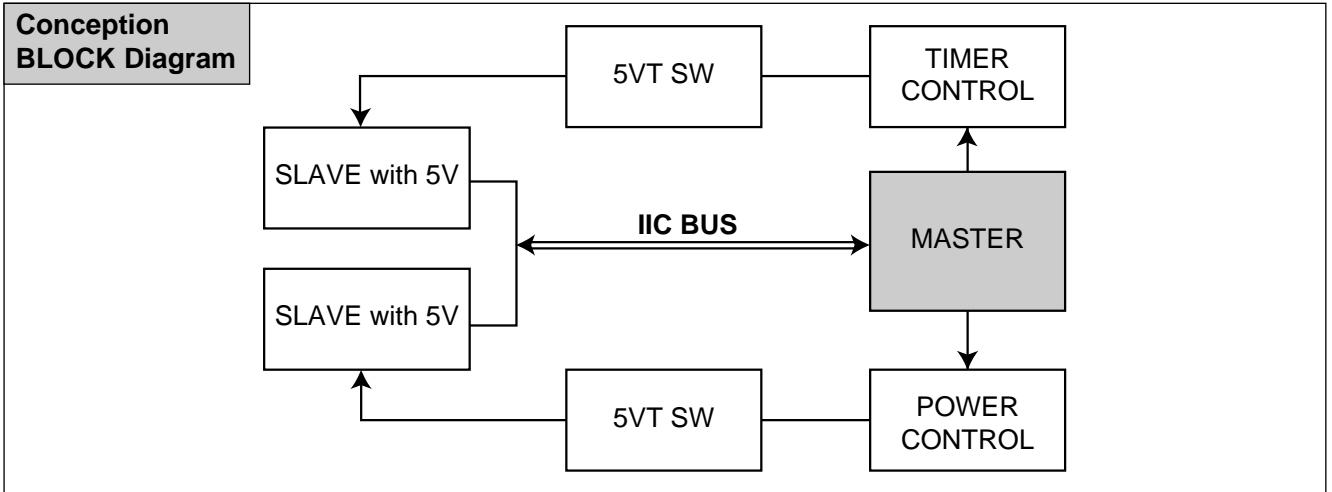
Note. This table is for IEC member only. Be sure to confirm the precise values for your particular country and locality.

PROPOSAL FOR APPLYING SHORT PROTECTION

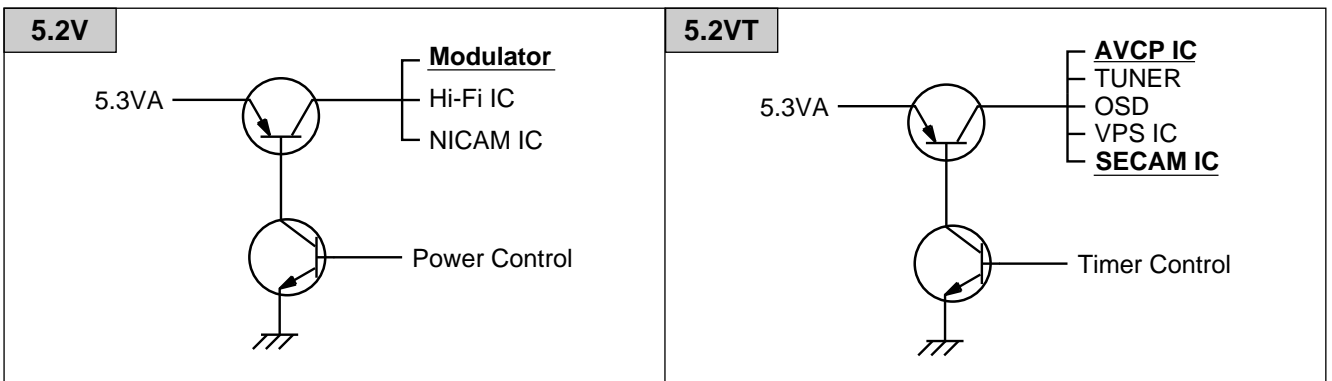
• The Contents of Examination

As all the IC that is applied to VCR is controlled by IIC, mutual communication, if Vcc of IC is short or open with detecting 'Acknowledge' data of the specific IC according to each power(5V, 5VT) μ -COM gets unable to detect 'ACK' data.

μ -COM regards this case as abnormal one and if it can't detect 'ACK' data for a certain time(3.5 sec) the signal of 'Power Control' and 'Timer Control' are switched to 'Low'. As a result POWER Switching TR is kept from generating heat and fire.



• POWER for each IC



• IC to detect 'ACK' data is selected as below because IC is different in accordance to region and option

S/	5V POWER	SECAM IC
Series	5VT POWER	AVCP IC
P/Y/I	5V POWER	Modulator
Series	5VT POWER	AVCP IC

*Short protection off mode : DJ01 Diode in

SERVICE NOTICE ON REPLACING EEPROM

In case that defective EEPROM of PAL models is replaced, to operate these sets from the initial state MP KEY must be repaired as well before delivering to the customer.

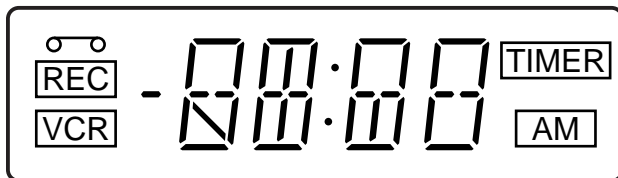
If MP KEY isn't repaired the setting of RF OUT channel or LANGUAGE might be different from that for customer's country.

- **MP KEY** : In case of PAL VCR if holding the REC button on the front panel and the CLEAR button on the remote control handset for 5 ~ 7 seconds with power being switch all and no tapes, OK is displayed at FLD for FLD models and LED becomes on for LED CLOCK models. This is the state that initializing EEPROM is finished.
(In case of PAL VCP if holding the REC button on the front panel and the MENU button on the remote control handset for 5 ~ 7 seconds with power being off and no tapes, All the LED DOTs become on. This is the state that initializing EEPROM is finished.)

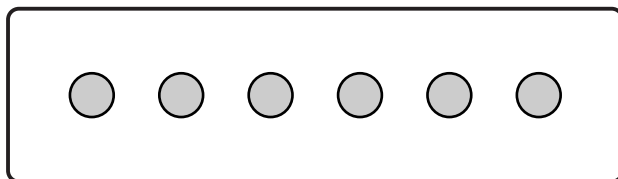
- **MP KEY's function** : MP KEY sets EEPROM's data up to the initial state.



- **FLD MODEL:**
MP KEY "OK"



- **LED CLOCK MODEL:**
MP KEY Switch all on a Light



- **LED DOT MODEL:**
MP KEY Switch all on a Light

SPECIFICATIONS

General

Power	: 200~240V, 50Hz
Power consumption	: Approx. 14 watts(Energy Saving mode : 3 watts)
Video Head system	: Rotary 2 heads, helical scanning system
Tape speed	: PAL/MESECAM : 23.39 mm/s (SP mode) 11.69 mm/s (LP mode) NTSC (Playback only) : 33.35 mm/s (SP mode) 16.67 mm/s (LP mode) 11.12 mm/s (EP mode)
Tape format	: Tape width 1/2" (12.7 mm high density VHS tape)
Maximum recording time	: 4 hours in SP mode/8 hours in LP mode (with E-240 tape)
Rewind time	: Approx. 150 sec. (with E-180 tape)
Dimensions (W X H X D)	: 14.2" X 3.6" X 11.4" (360 x 94 x 270 mm)
Weight	: 9.0 lbs. (4.0 kg)
Operating temperature	: 41°F-95°F (5°C-35°C)
Operating humidity	: Less than 80%
Timer	: 24 hours display type

Video

Television system	: CCIR standard (625 lines, 50 fields) PAL(B/G) colour signal(VHR-M271SP/M261EV/M291EV) PAL(I) colour signal(VHR-M291E) PAL(I/I) colour signal(VHR-M291IR)
Recording format	: PAL
RF Out	: G(VHR-M271SP/M261EV/M291EV) I (VHR-M291E/M291IR)
RF Modulator	: UHF 22-68 (Adjustable)
Input level	: VIDEO IN (SCART type) 1.0 Vp-p, 75 ohm, unbalanced
Output level	: VIDEO OUT (SCART type) 1.0 Vp-p, 75 ohm, unbalanced
Signal to noise ratio	: More than 43 dBm

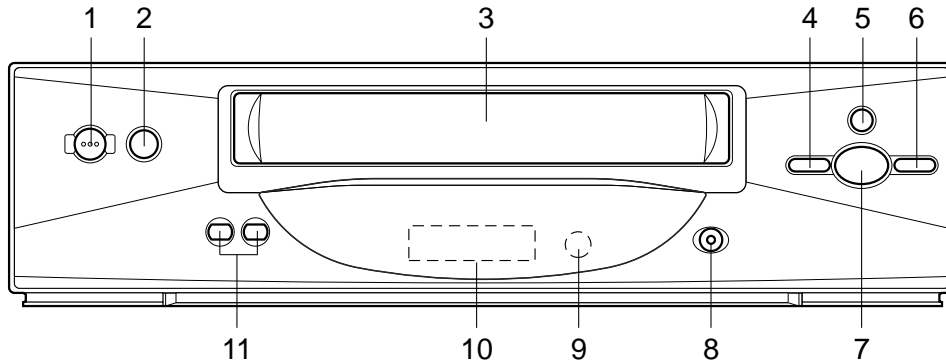
Audio

Input level	: AUDIO IN (SCART type) -3.8dBm, more than 10k Ω
Output level	: AUDIO OUT (SCART type) -3.8dBm, less than 1k Ω
Audio track	: Mono track
Audio signal to noise ratio	: More than 43 dBm(at SP mode)

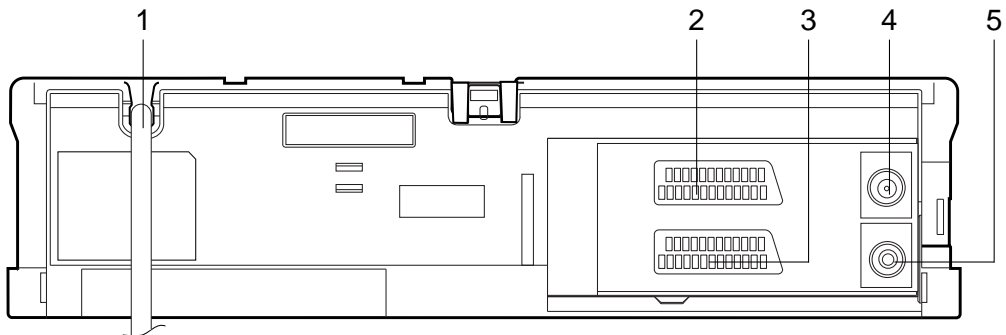
- Design and specifications are subject to change without notice.

LOCATION OF CUSTOMER CONTROLS

FRONT



REAR



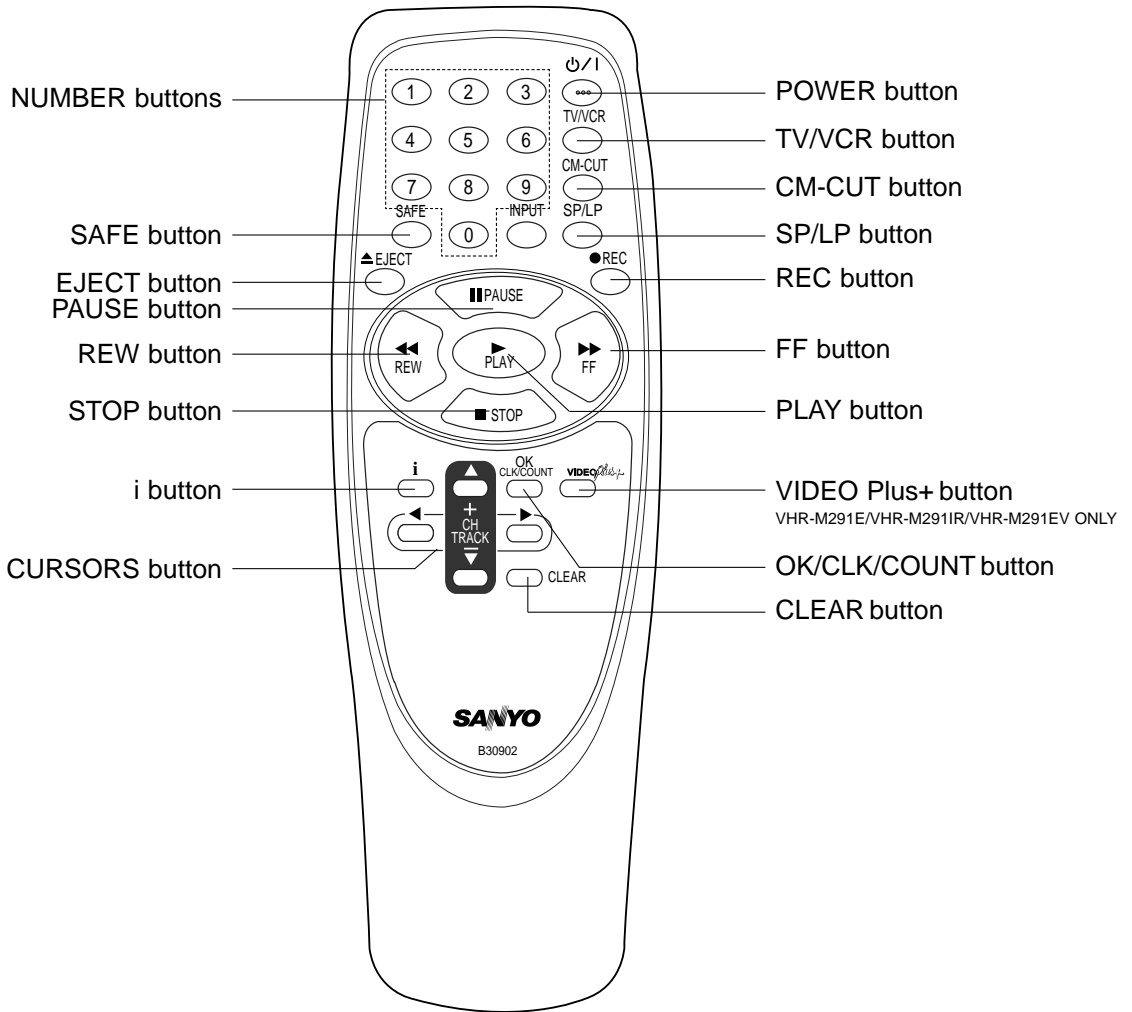
FRONT

1. POWER
2. STOP & TAPE EJECT
3. CASSETTE COMPARTMENT
4. REW
5. PAUSE
6. FAST FORWARD
7. PLAY
8. REC
9. REMOTE CONTROL SENSOR
10. VCR DISPLAY
11. CHANNEL(-/+)

REAR

1. MAINS LEAD
2. EURO AV2
(VHR-M271SP, VHR-M291IR, VHR-M291E ONLY)
3. EURO AV1
4. RF.OUT

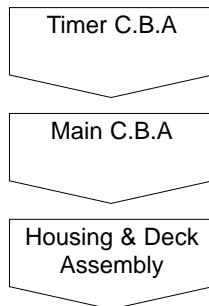
REMOTE CONTROL



SECTION 2 CABINET & MAIN CHASSIS SERVICE METHOD

Electrical Part

(1) Re-assembly Flow for service like Fig. 2-1

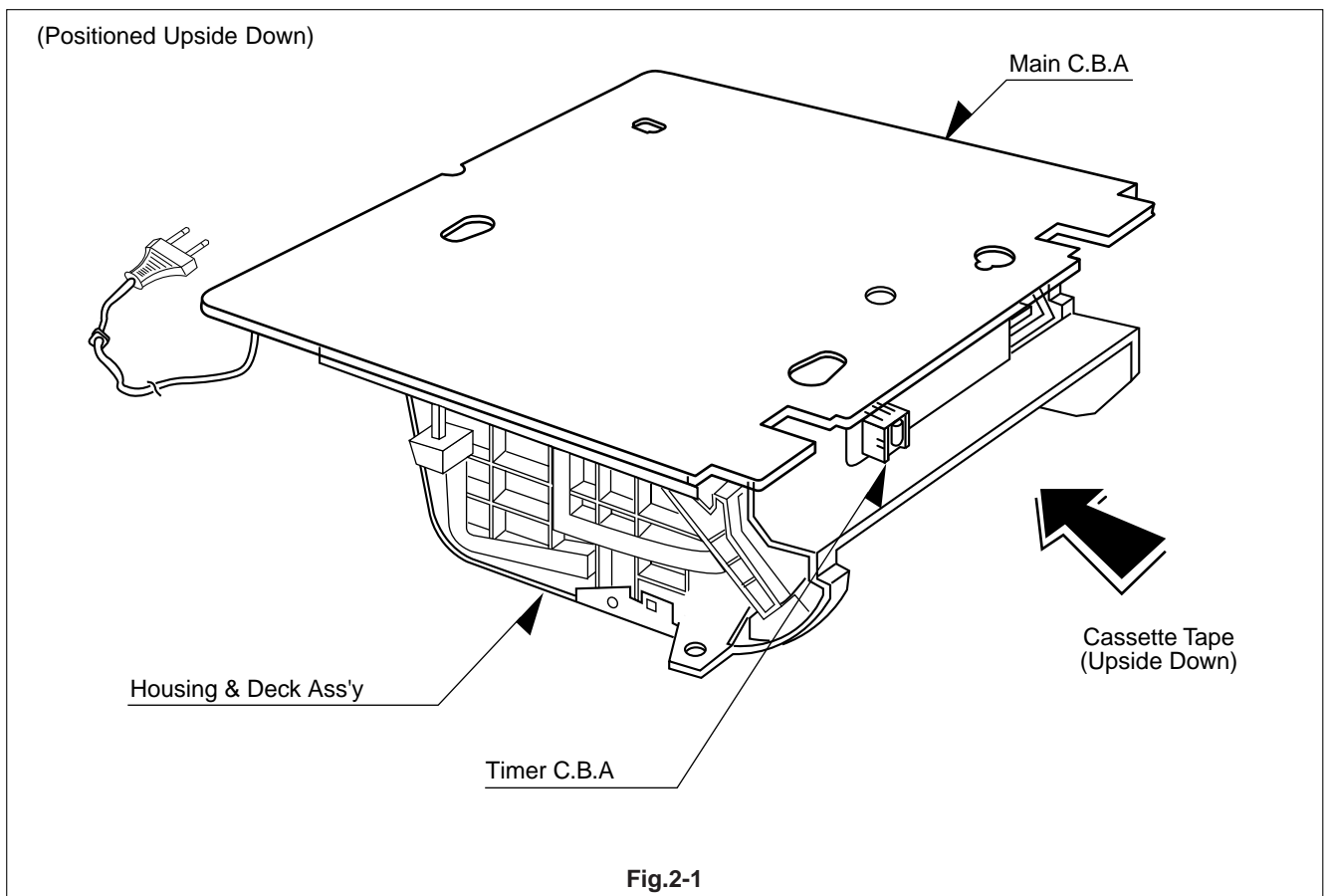


(2) To check and replace Electrical parts

- ① Re-assemble the unit according to No.1) Re-assembly Flow.
- ② Place the unit like Fig. 2-1
- ③ Check and replace Electrical parts.

NOTE :

- ① Insert Video Cassette Tape inversely like Fig. 2-1 to check and replace defective parts.
- ② In disassembling and reassembling, be careful not to damaged CST switch.

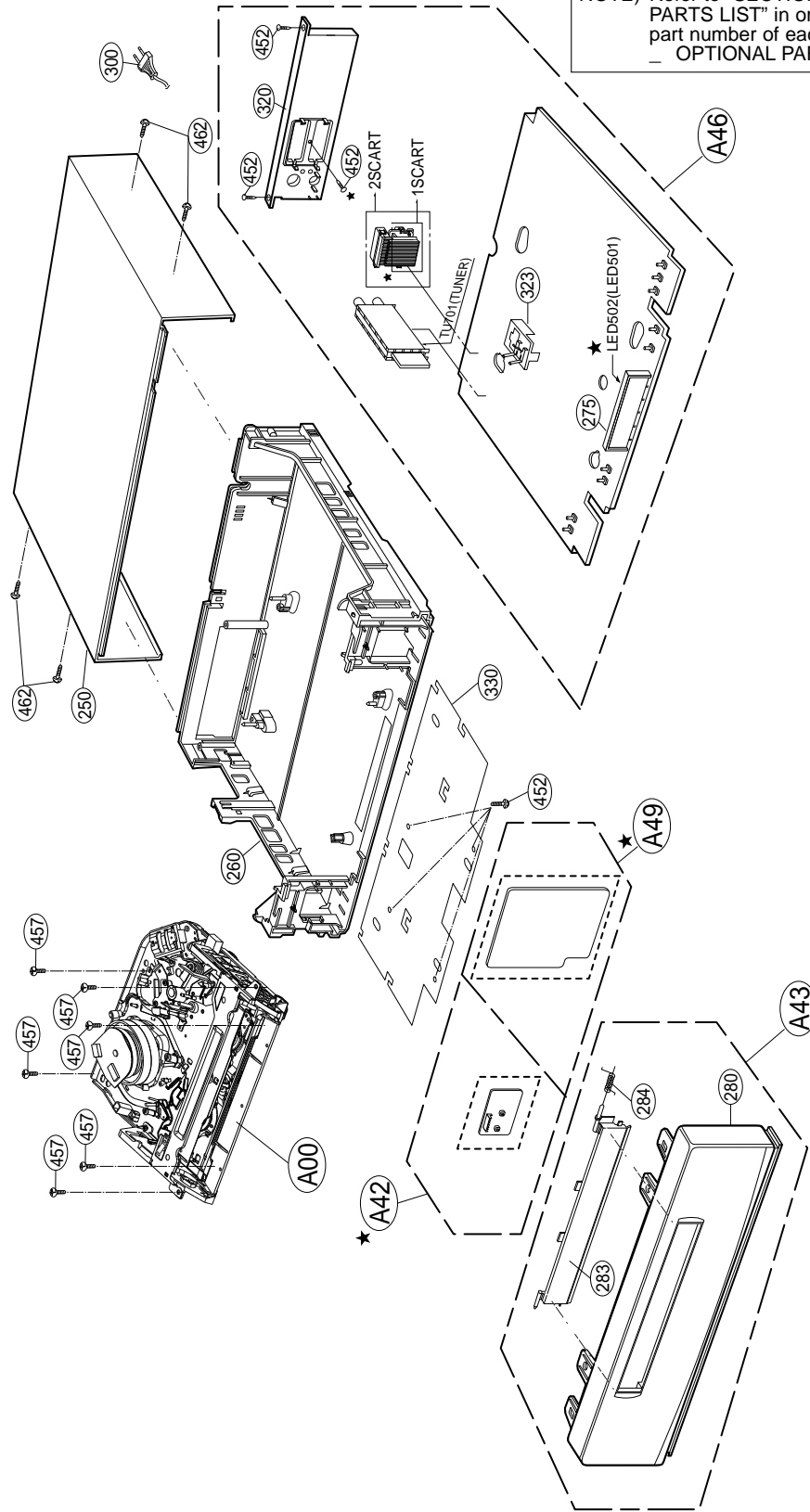


EXPLODED VIEWS

1. Cabinet and Main Frame Section

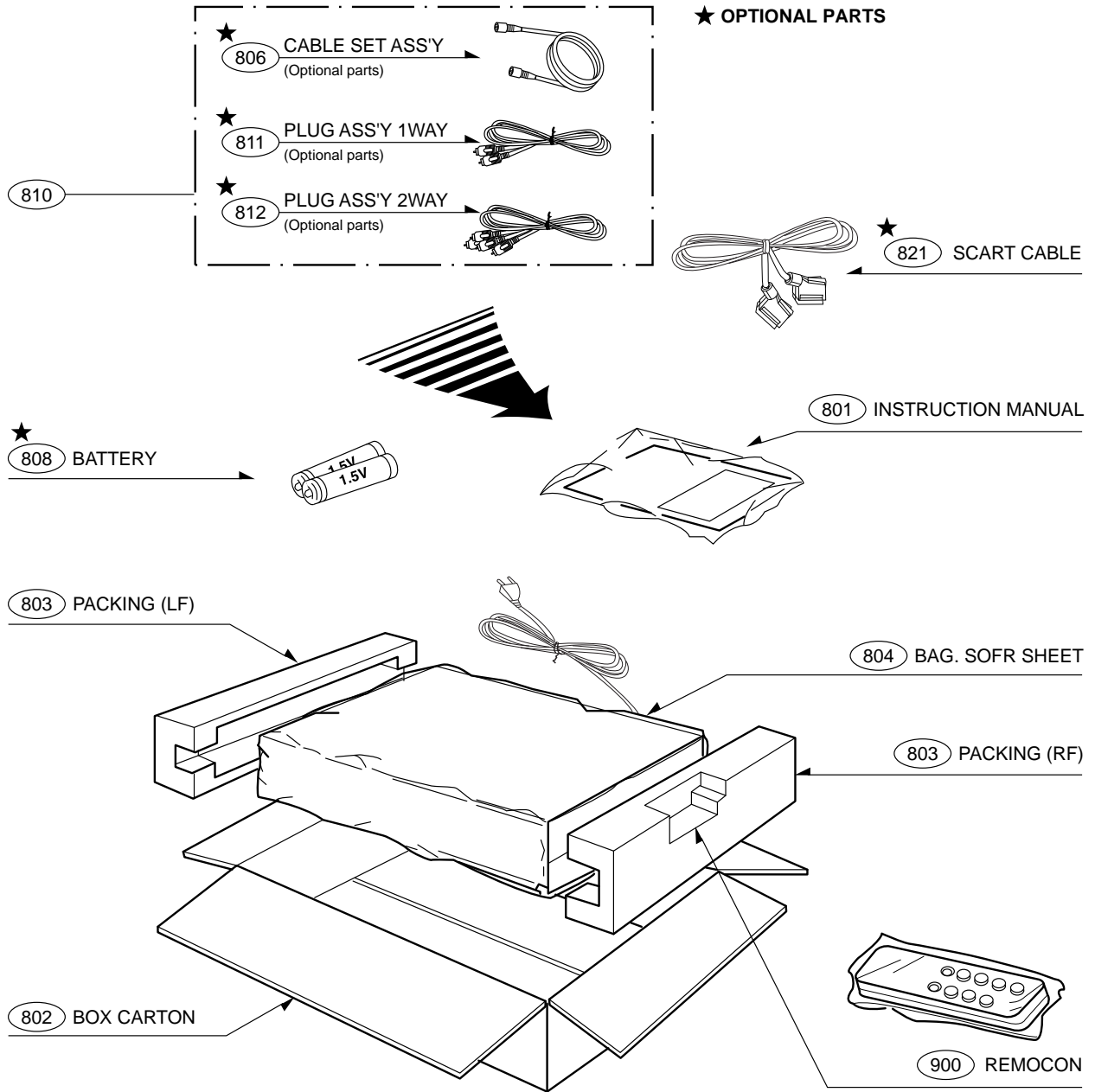
NOTE) Refer to "SECTION 5 REPLACEMENT PARTS LIST" in order to look for the part number of each part.
 * OPTIONAL PARTS

5
4
3
2
1
A B C D



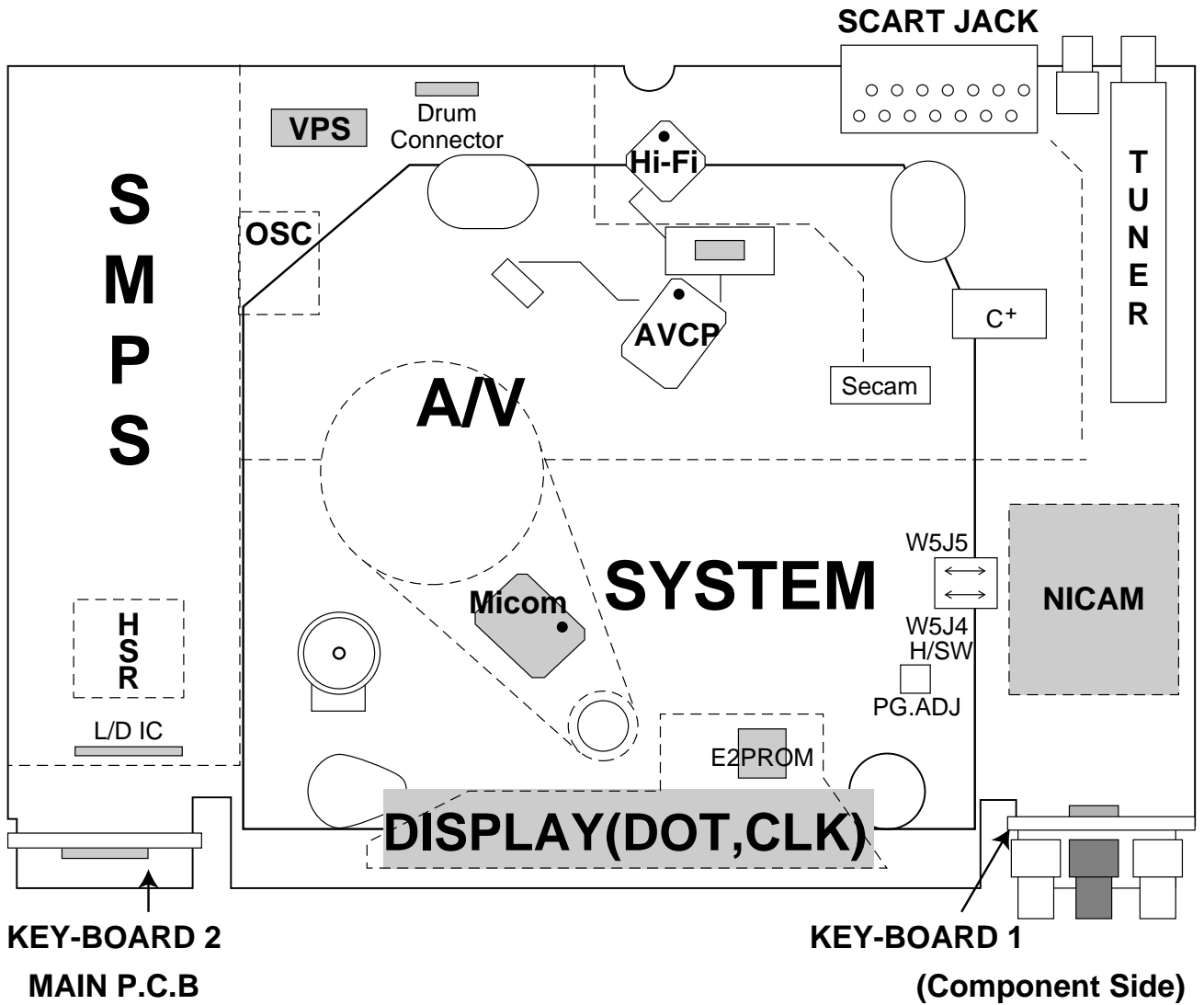
2.Packing & Accessory Remote Control Section

NOTE) Refer to "SECTION REPLACEMENT PARTS LIST" in order to look for the part number of each part.



SECTION 3 ELECTRICAL ELECTRICAL ADJUSTMENT POINTS ARRANGEMENT

: Measurement point
 : Adjustment point



ELECTRICAL ADJUSTMENT PROCEDURES

1. Servo Adjustment

- 1) PG Adjustment
 - Test Equipment

- a) OSCILLOSCOPE
- b) PAL TEST TAPE (VHS SP)

- Adjustment And Specification

MODE	MEASUREMENT POINT	ADJUSTMENT POINT	SPECIFICATION
PLAY	V.Out H/SW(W5J4, W5J5)	VR501	$6.5 \pm 0.5H$

• Adjustment Procedure

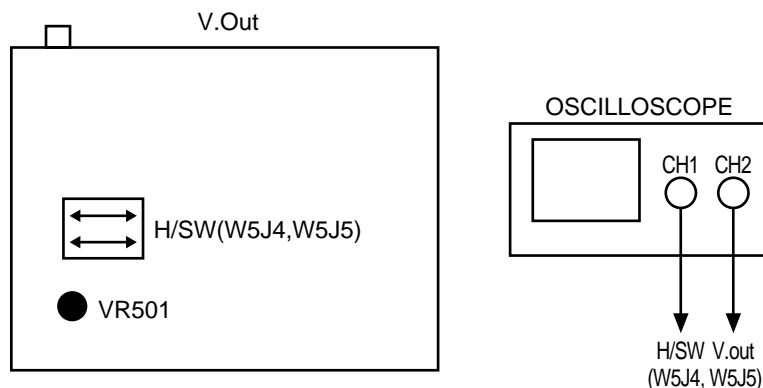
a) Insert the PAL SP Test Tape and play.

Note - Adjust the distance of X, pressing the Tracking(+) or Tracking(-) when the "ATR" is blink after the PAL SP Test Tape is inserted.

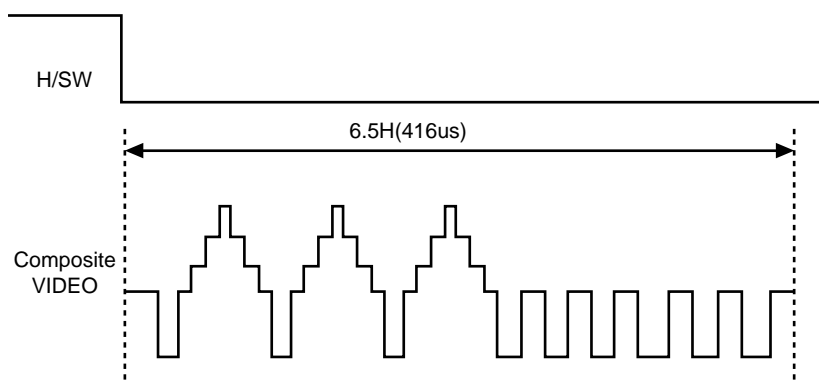
b) Connect the CH1 of the oscilloscope to the H/SW(W5J4, W5J5) and CH2 to the Video Out for the VCR.

c) Trigger the mixed Video Signal of CH2 to the CH1 H/SW(W5J4, W5J5), and then check the distance (time difference), which is from the selected A(B) Head point of the H/SW(W5J4, W5J5) signal to the starting point of the vertical synchronized signal, to $6.5H \pm 0.5H$ ($416\mu s$, $1H=64.0\mu s$).

• CONNECTION



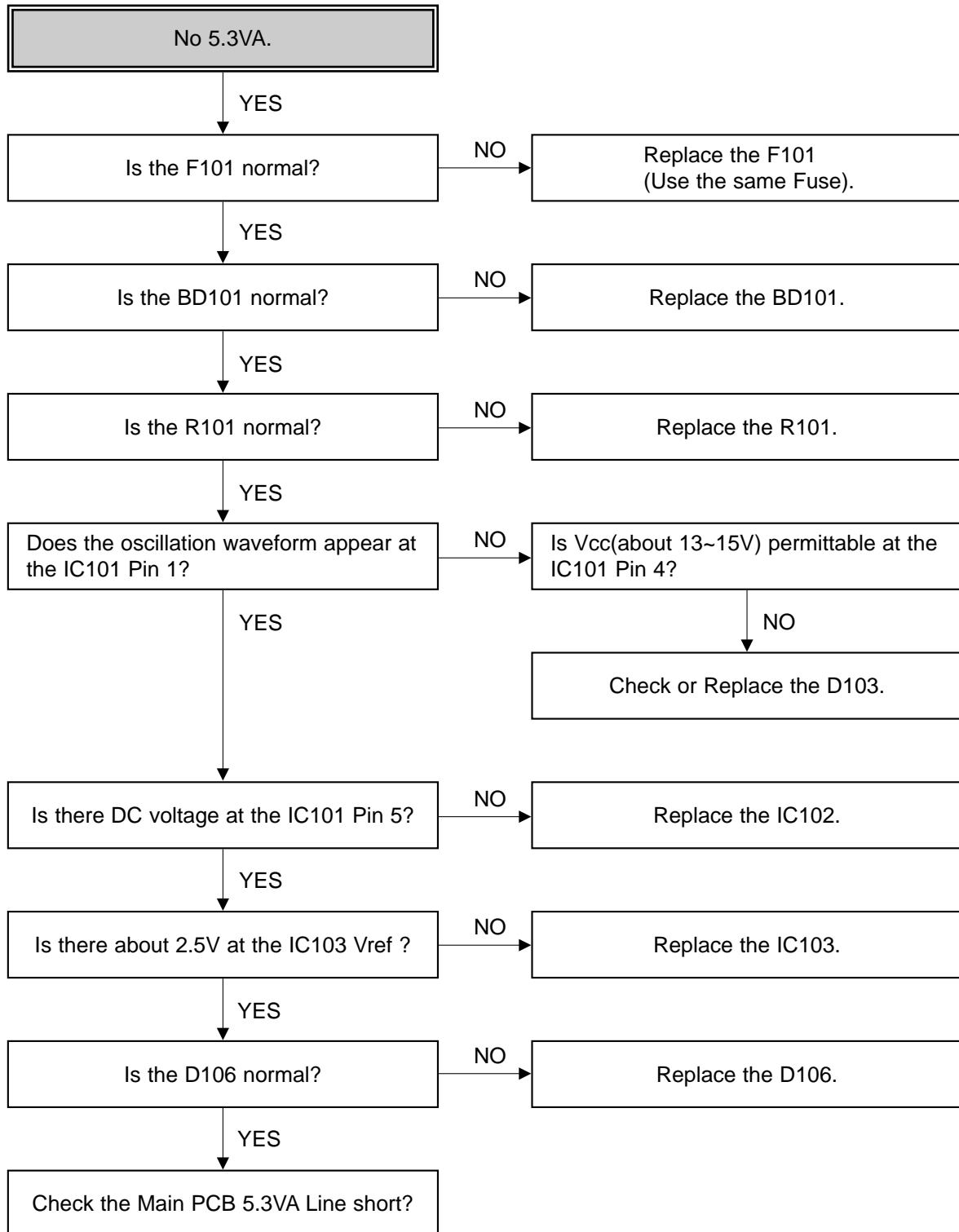
• WAVEFORM



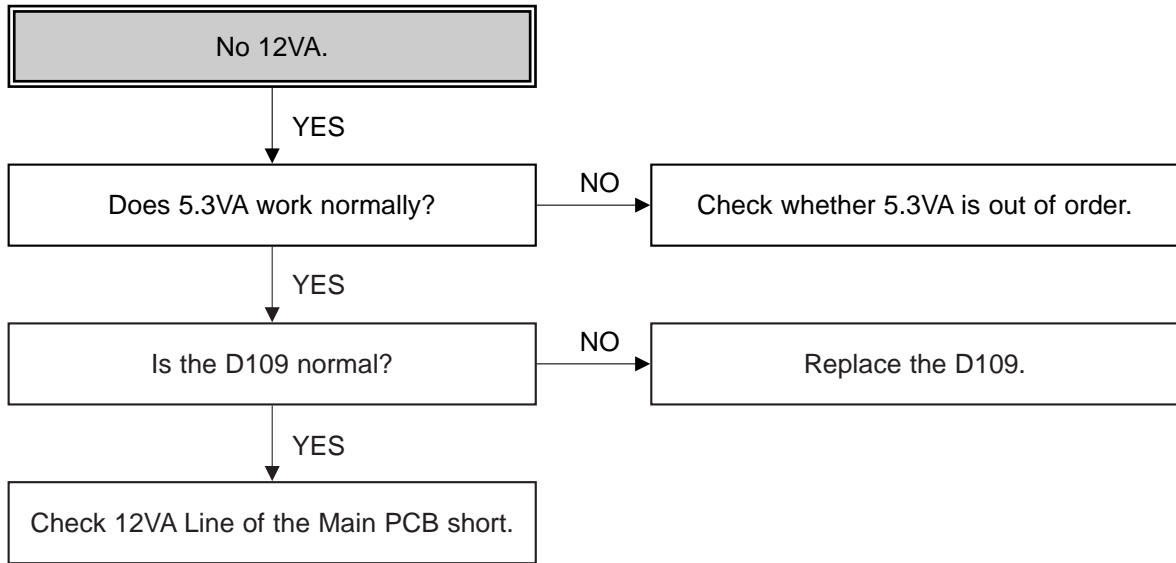
ELECTRICAL TROUBLESHOOTING GUIDE

1. Power Circuit(SMPS)

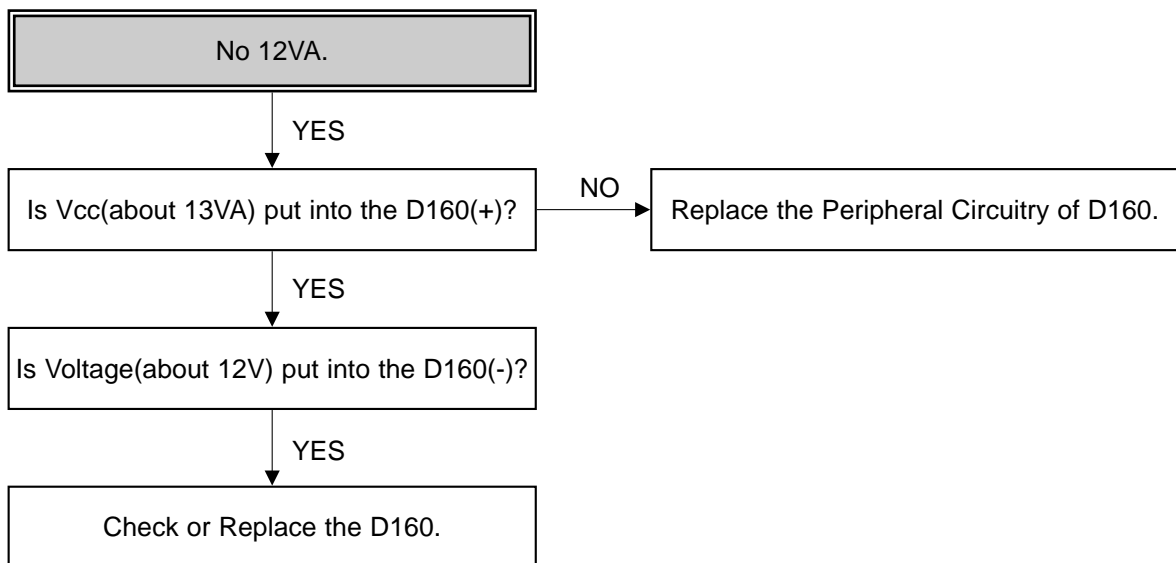
(1) No 5.3VA.



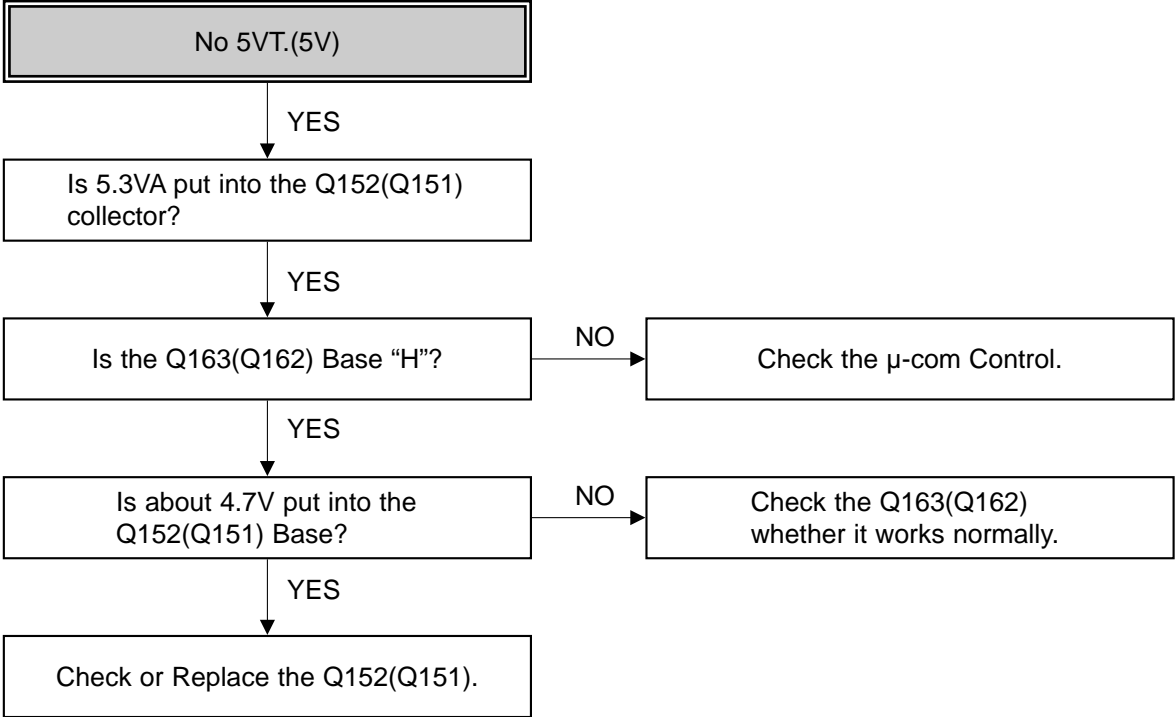
(2) No 12VA.(Capstan)



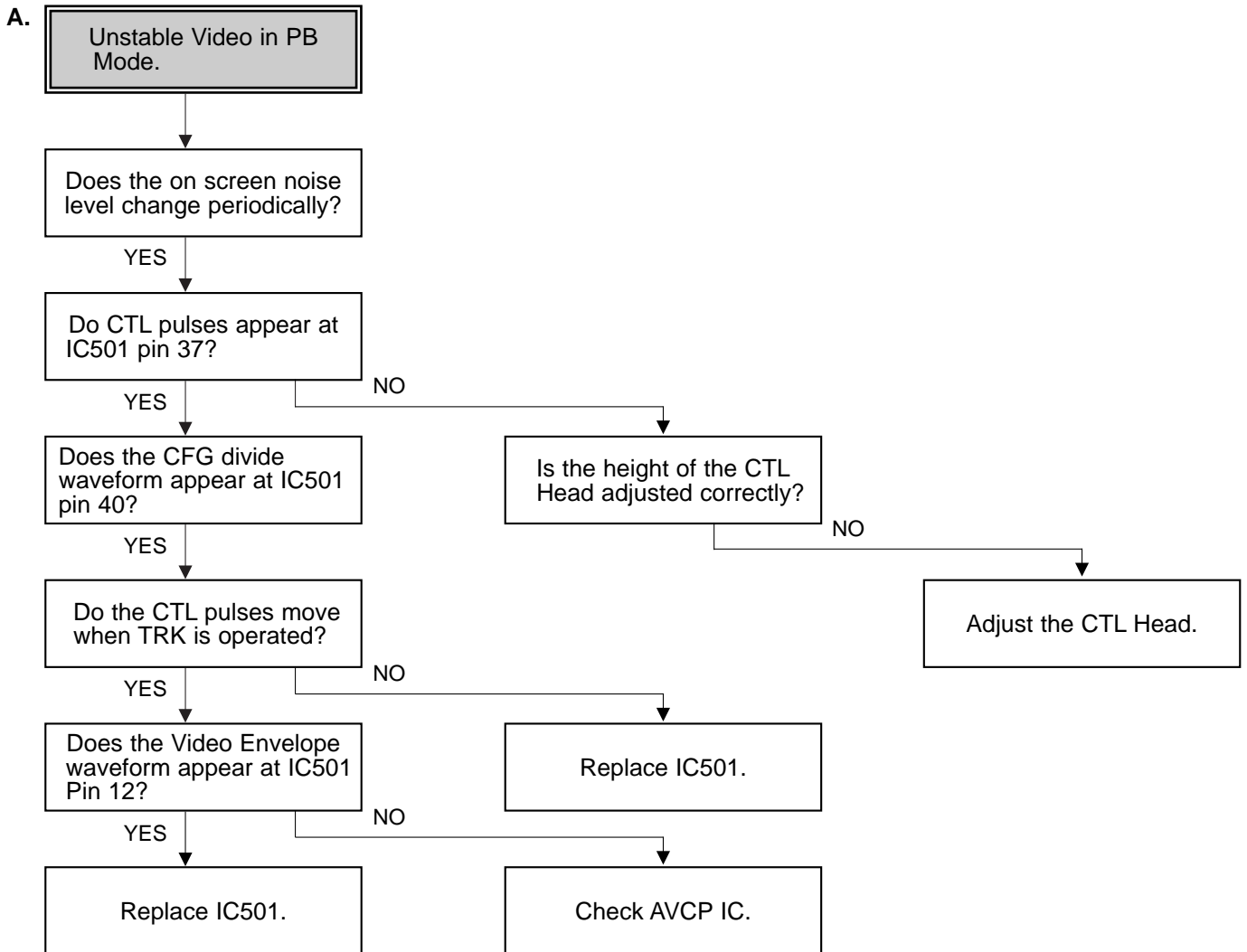
(3) No 12VA (CANAL, Buffer)

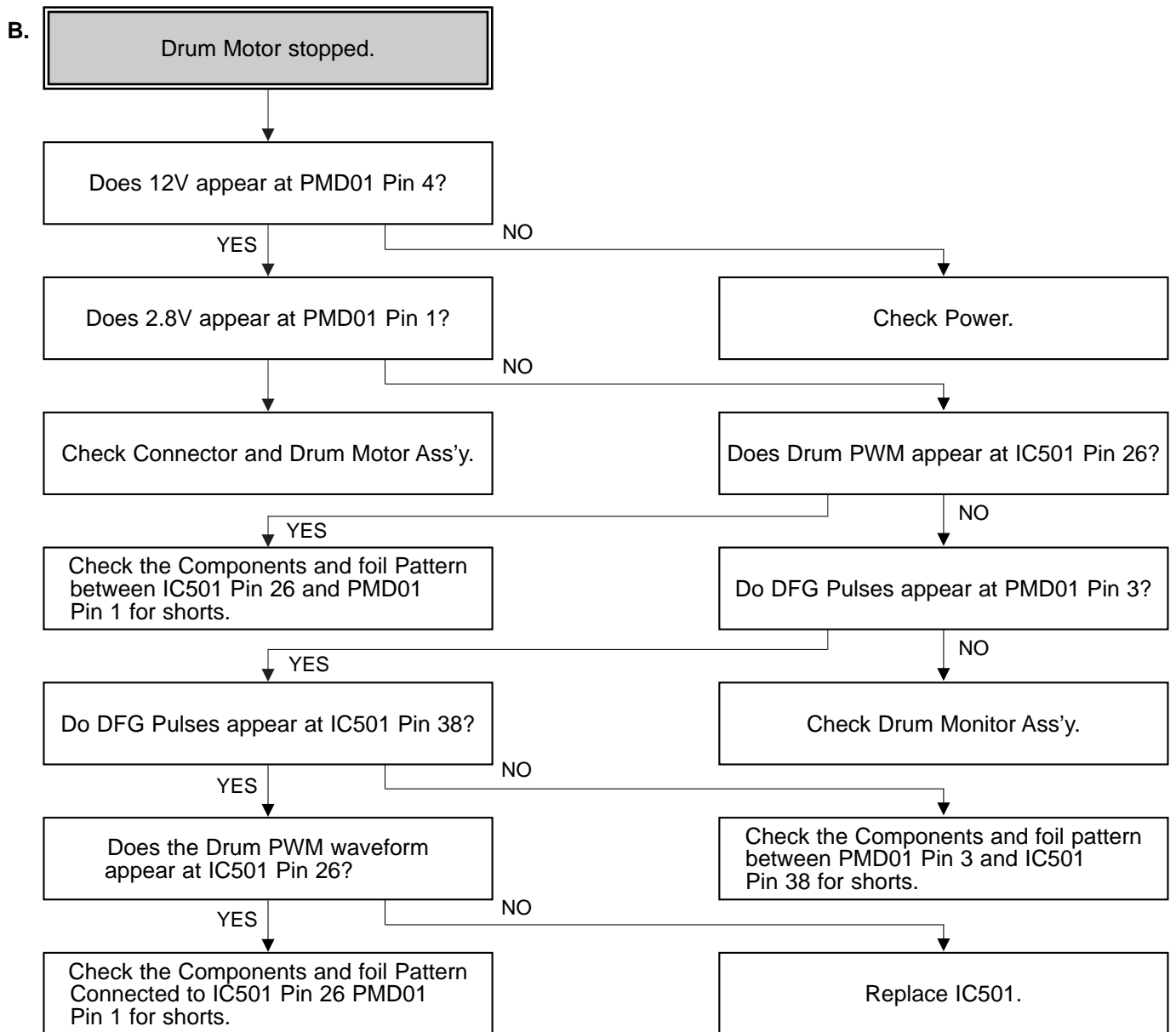


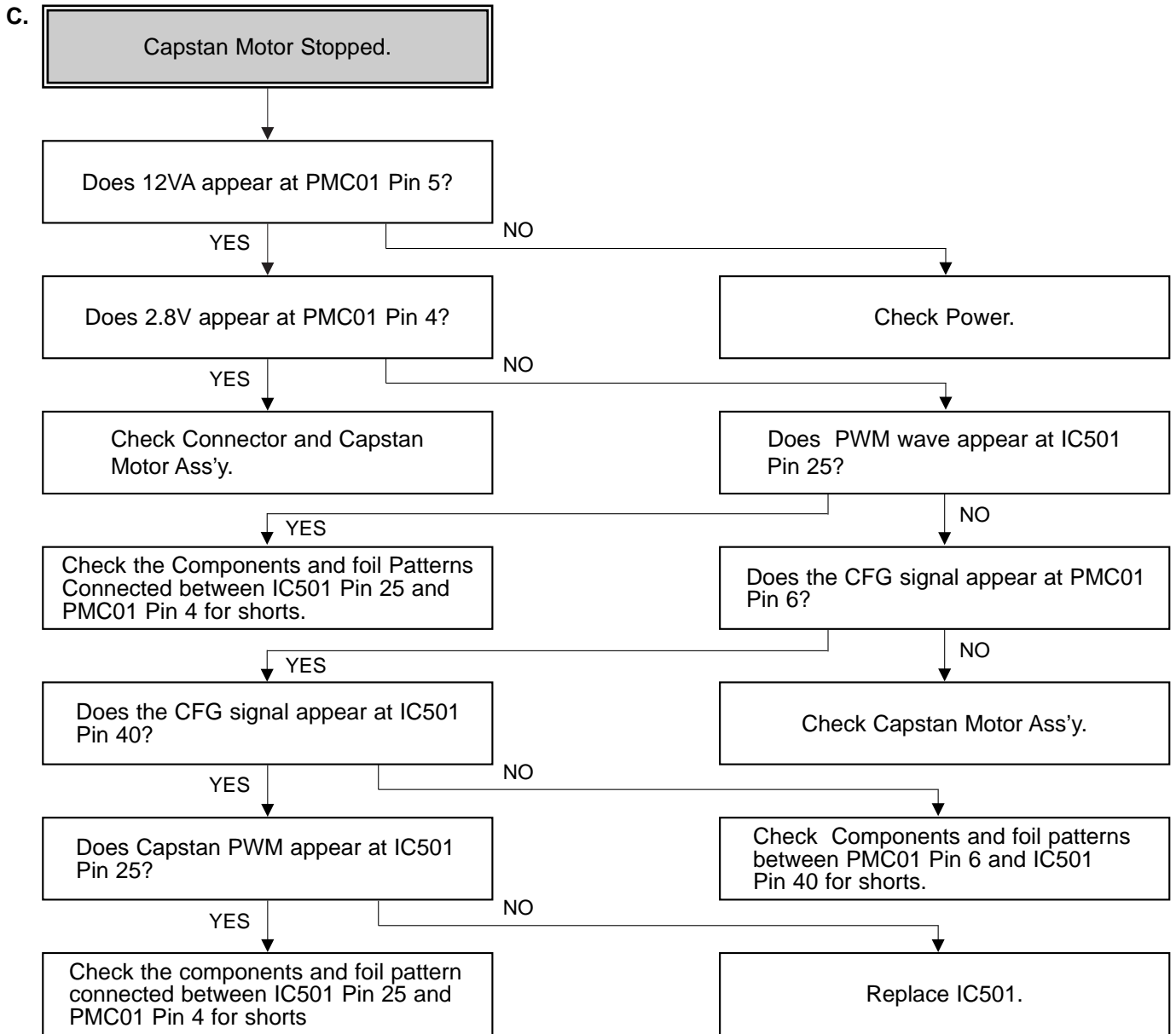
(4) No 5VT(5V)



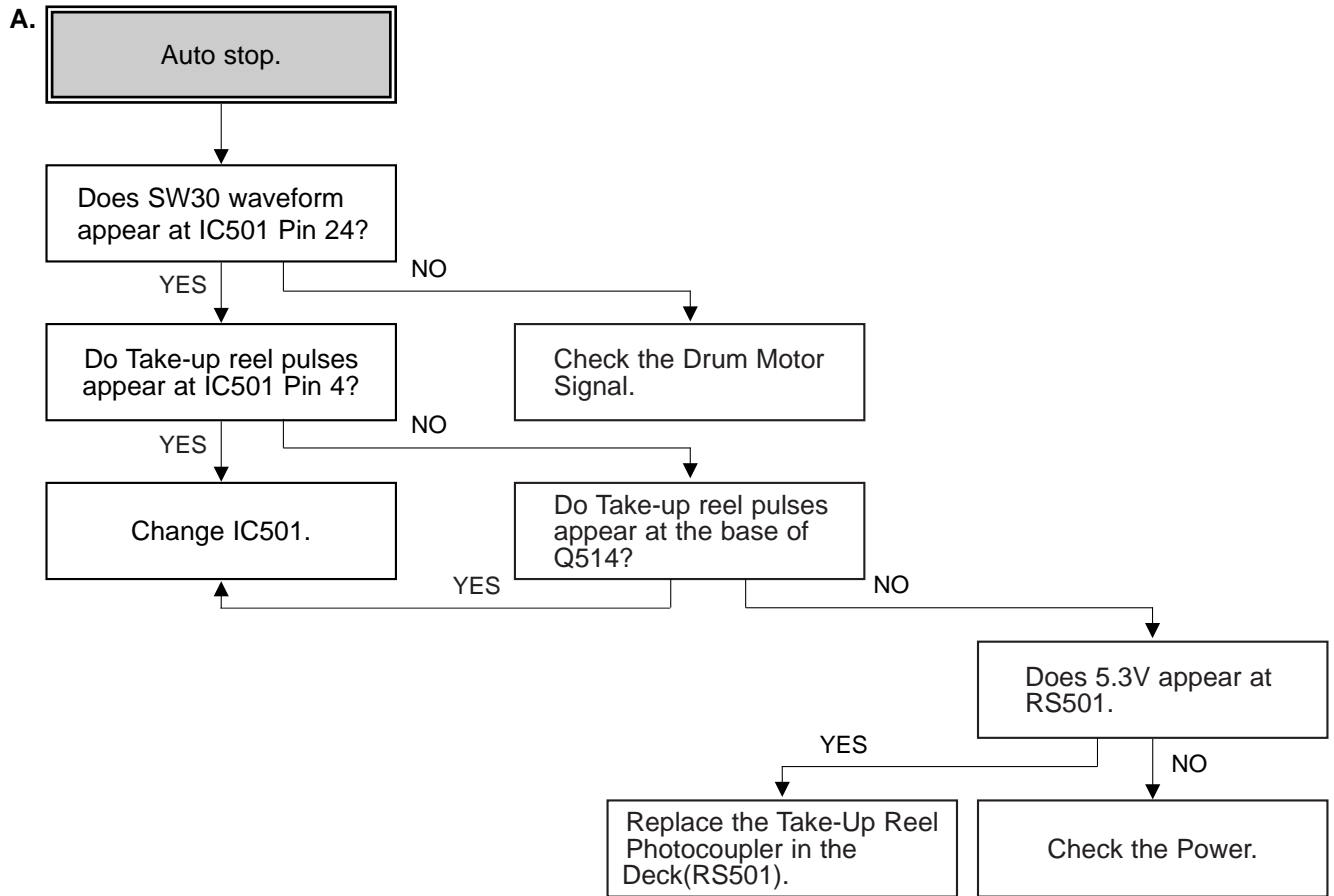
2. Servo Circuit

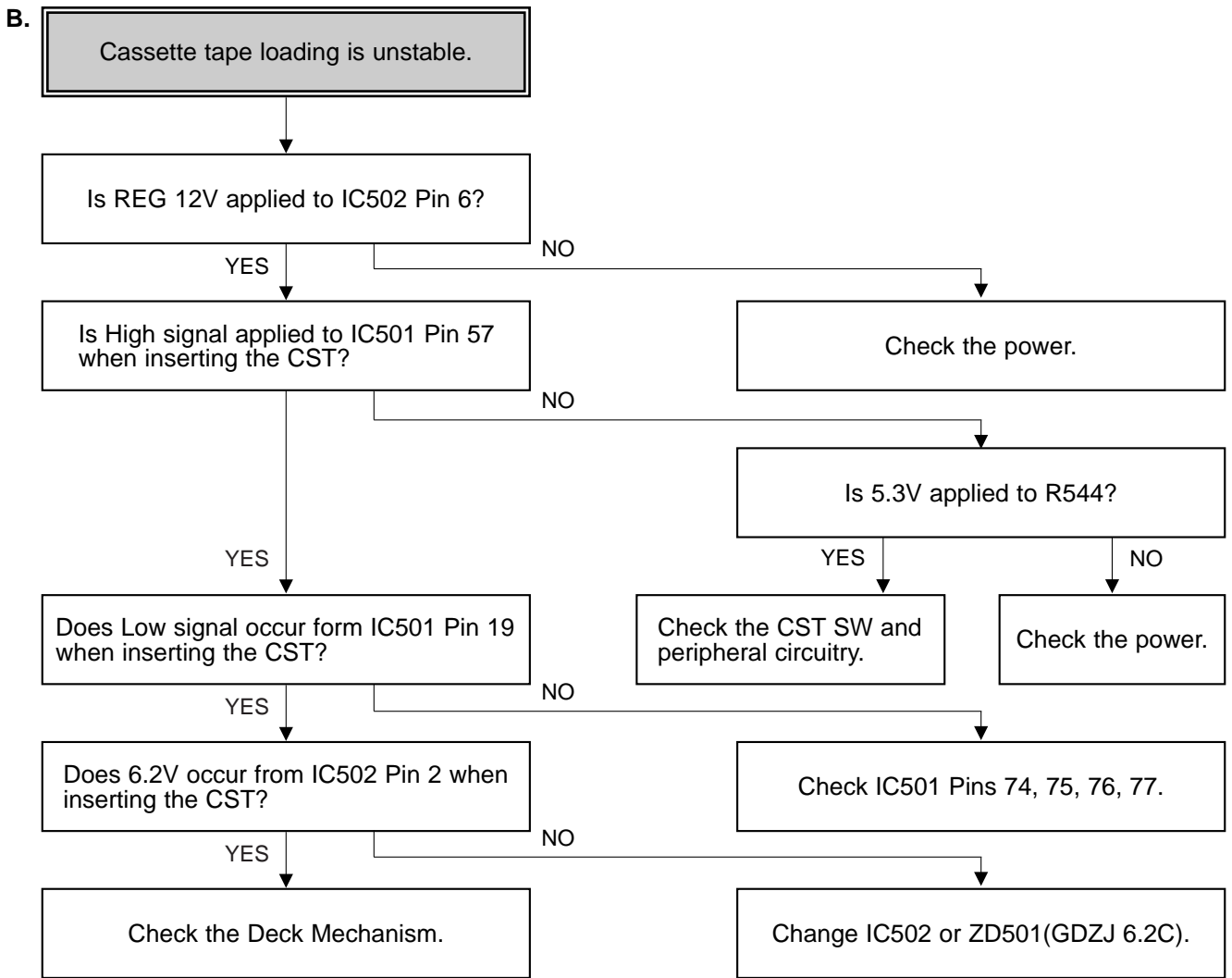




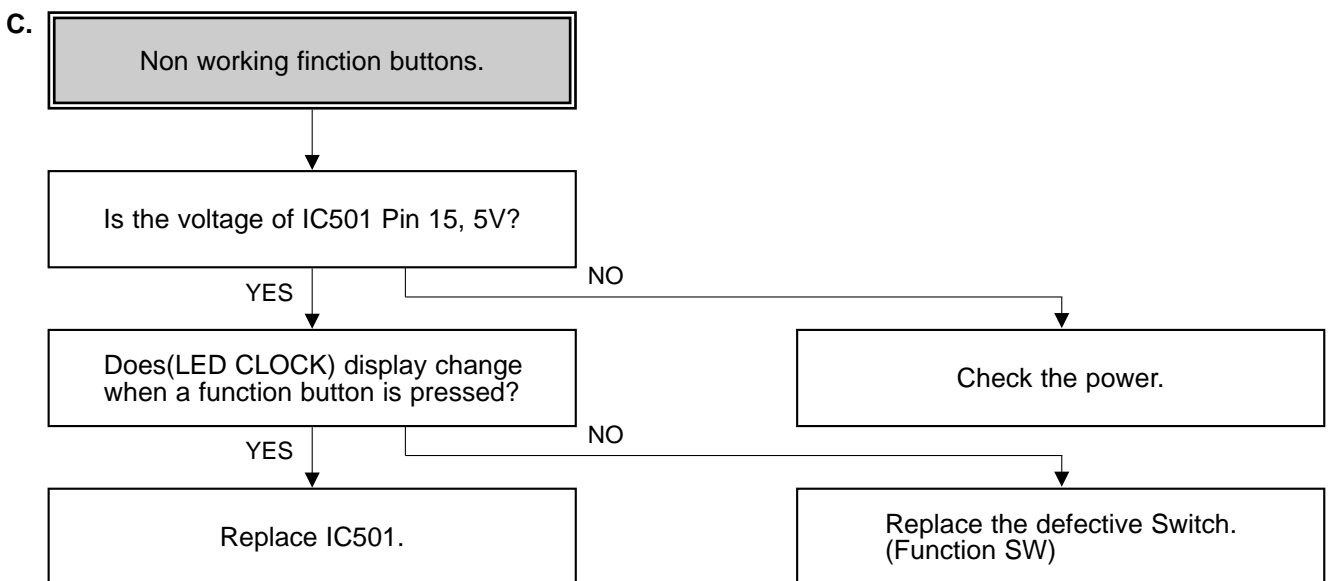


3. System & Front Panel Circuit



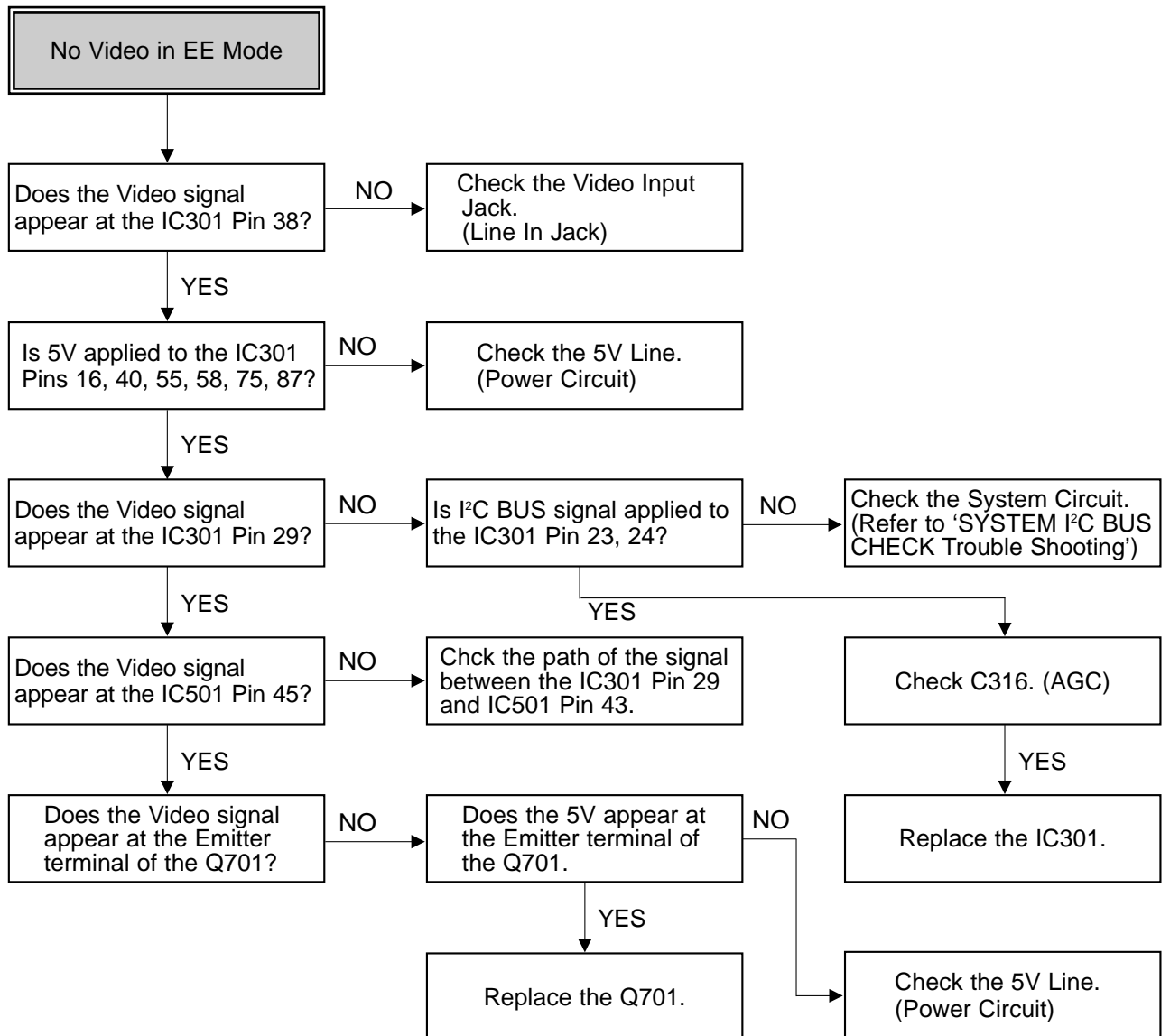


NOTE : Auto stop may also be caused by lack of lubrication, due to dried grease or oil.

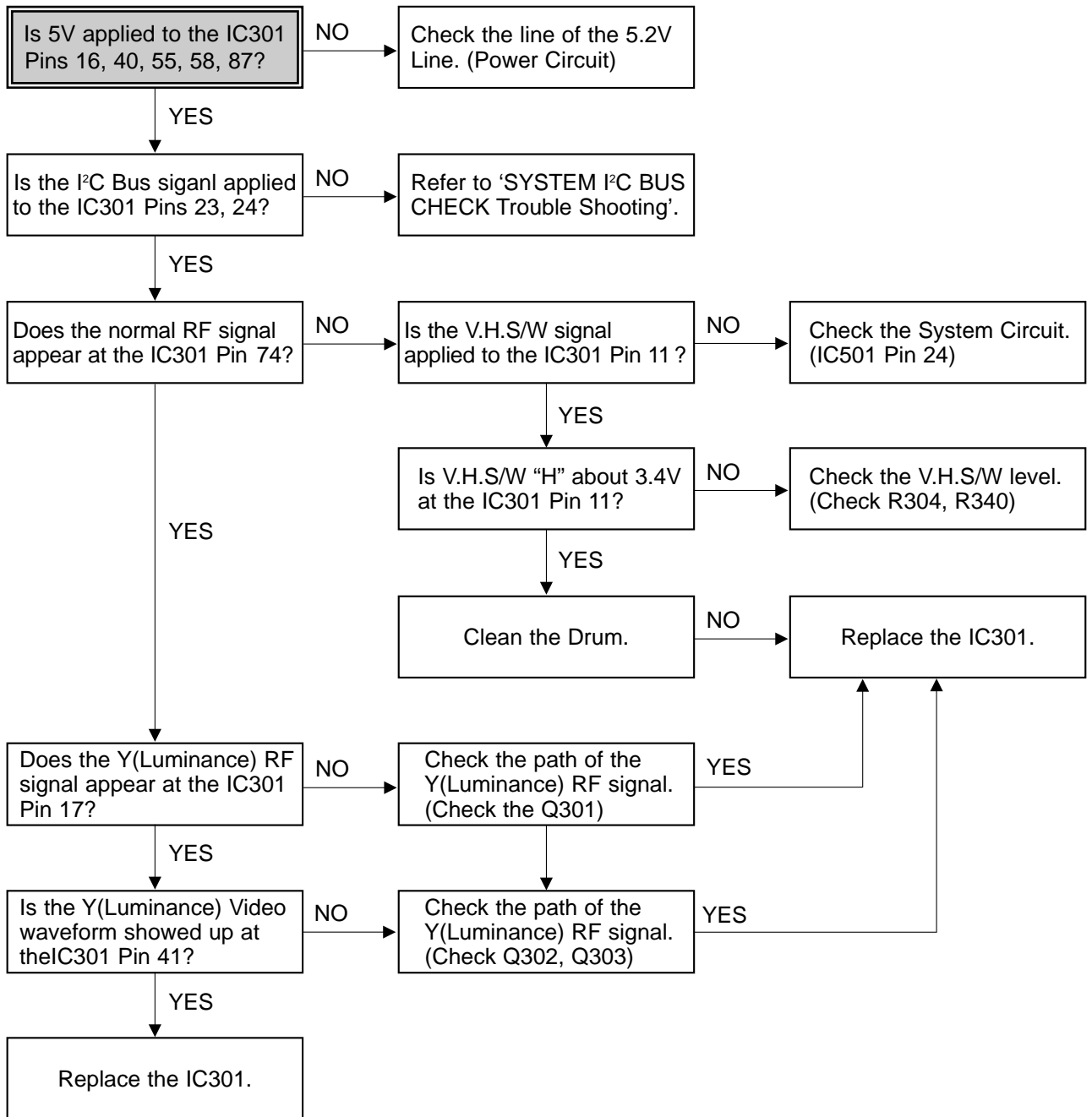


4. Y/C CIRCUIT

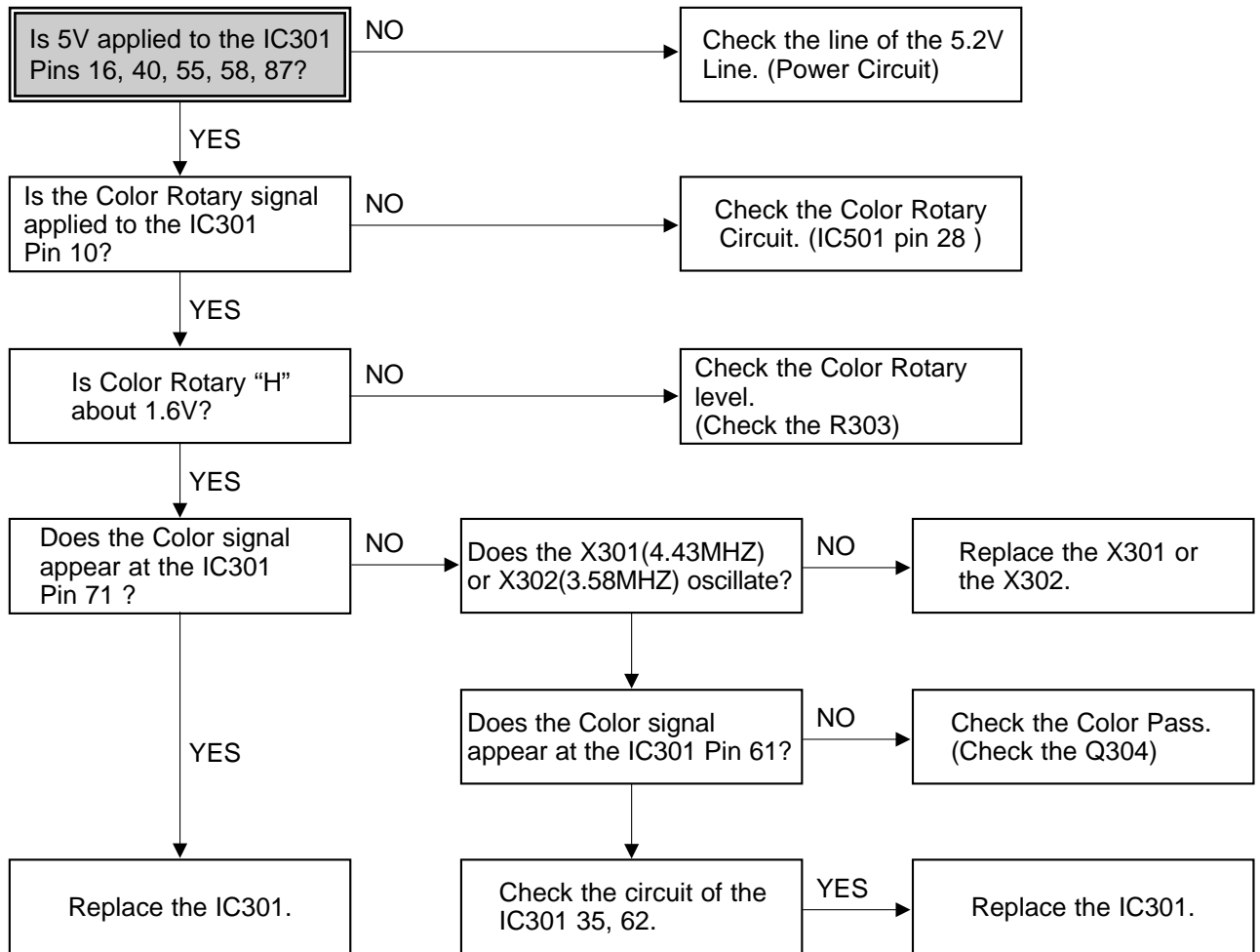
(1) No Video in EE Mode,



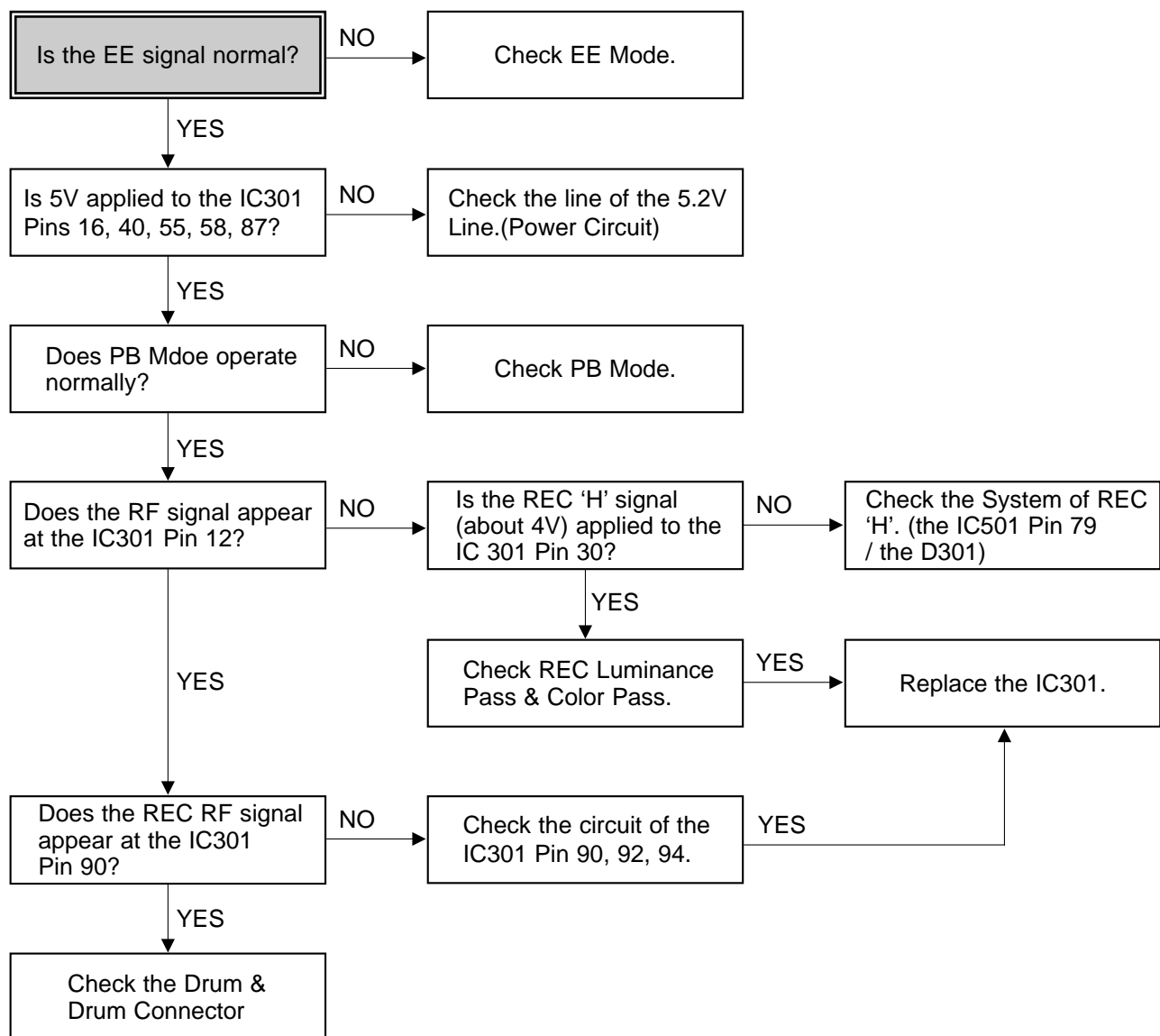
(2) When the Y(Luminance) signal doesn't appear on the screen in PB Mode,



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

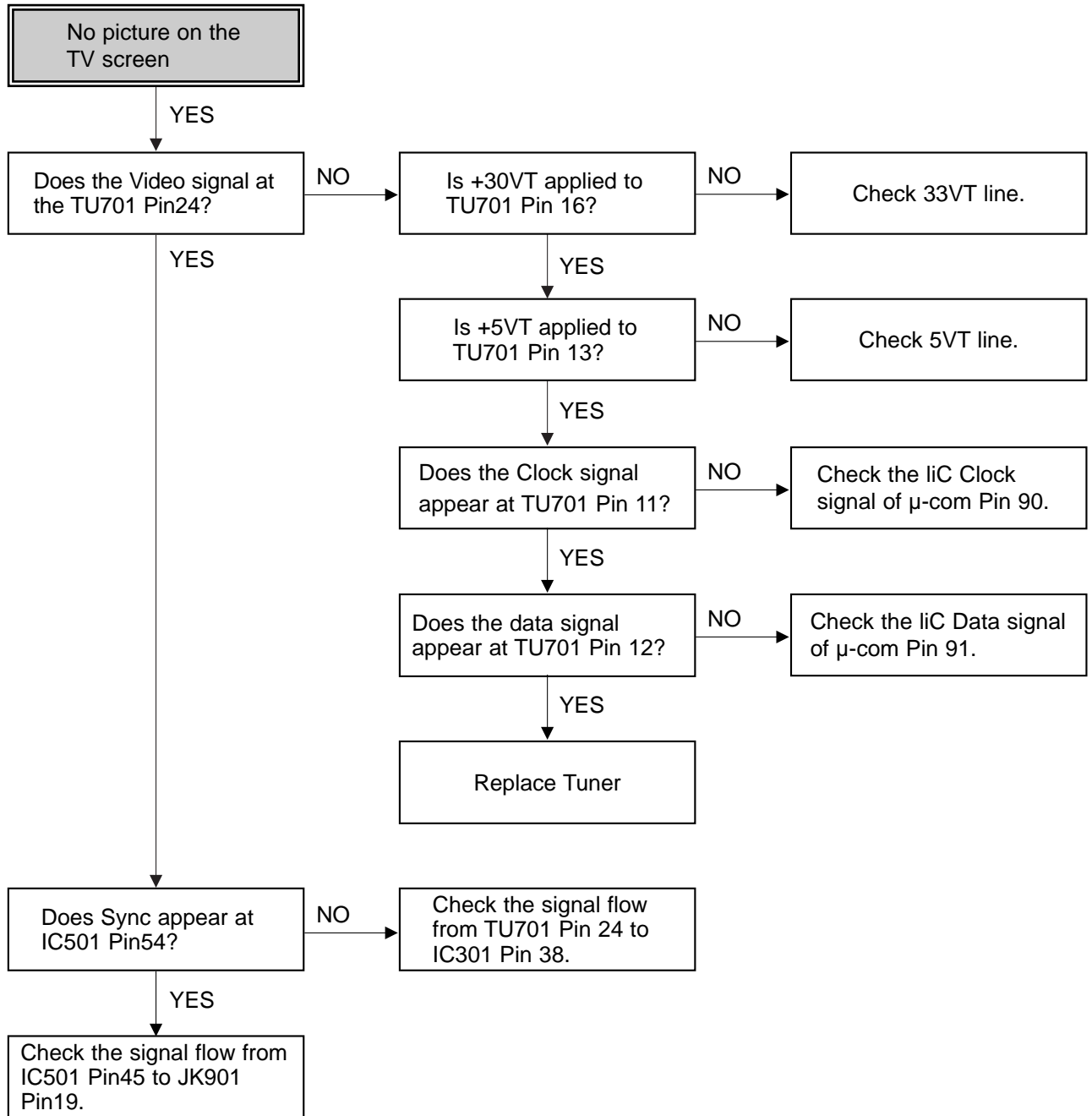


(4) When the Video signal doesn't appear on the screen in REC Mode,

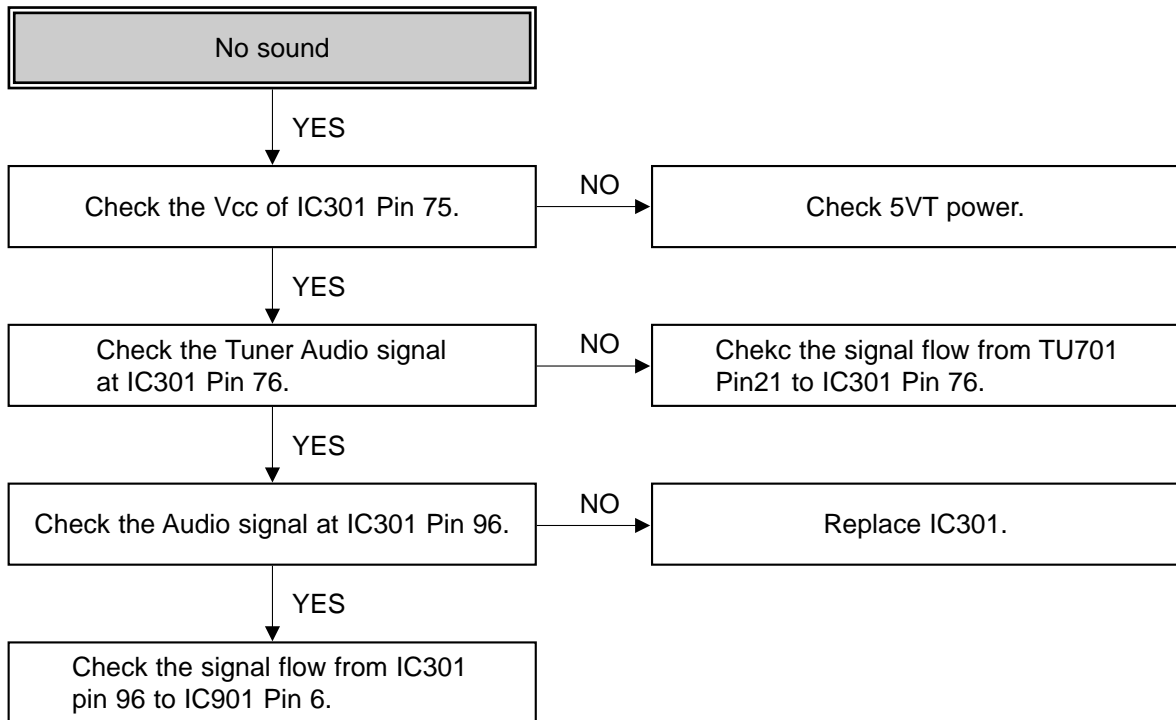


5. Tuner/IF circuit

(1) No picture on the TV screen

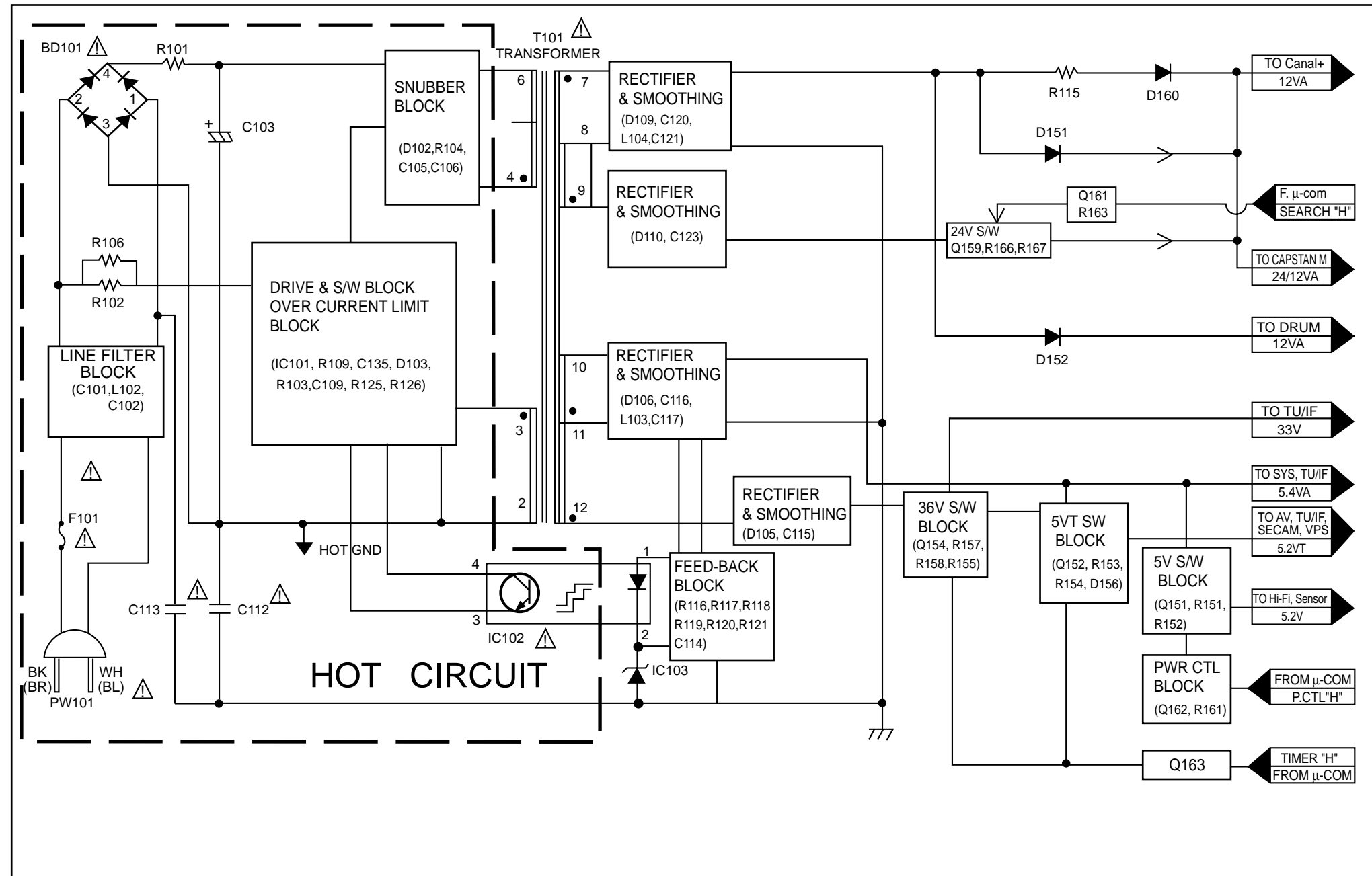


(2) No sound





BLOCK DIAGRAMS

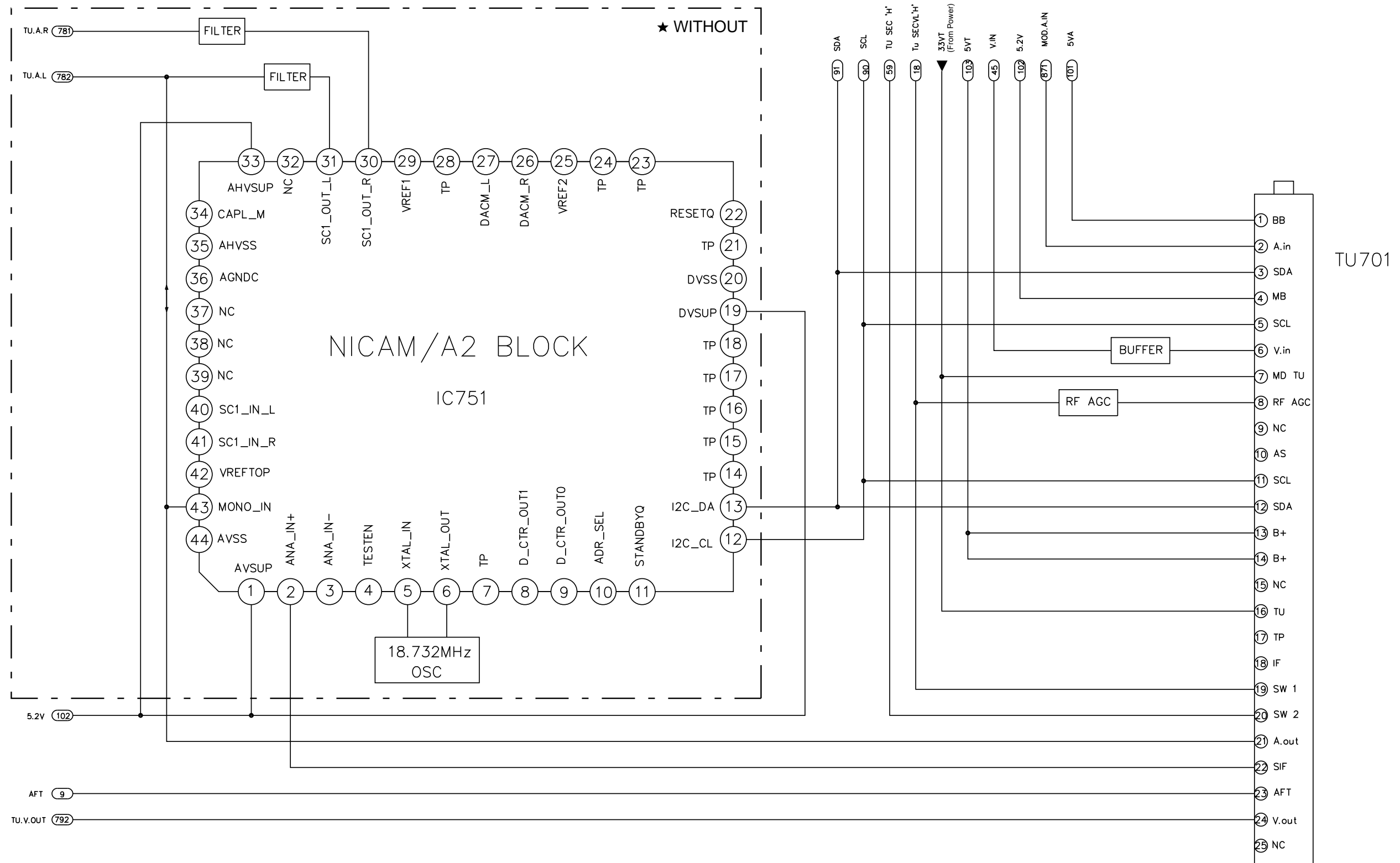
1. Power Block Diagram



'00 11. 30

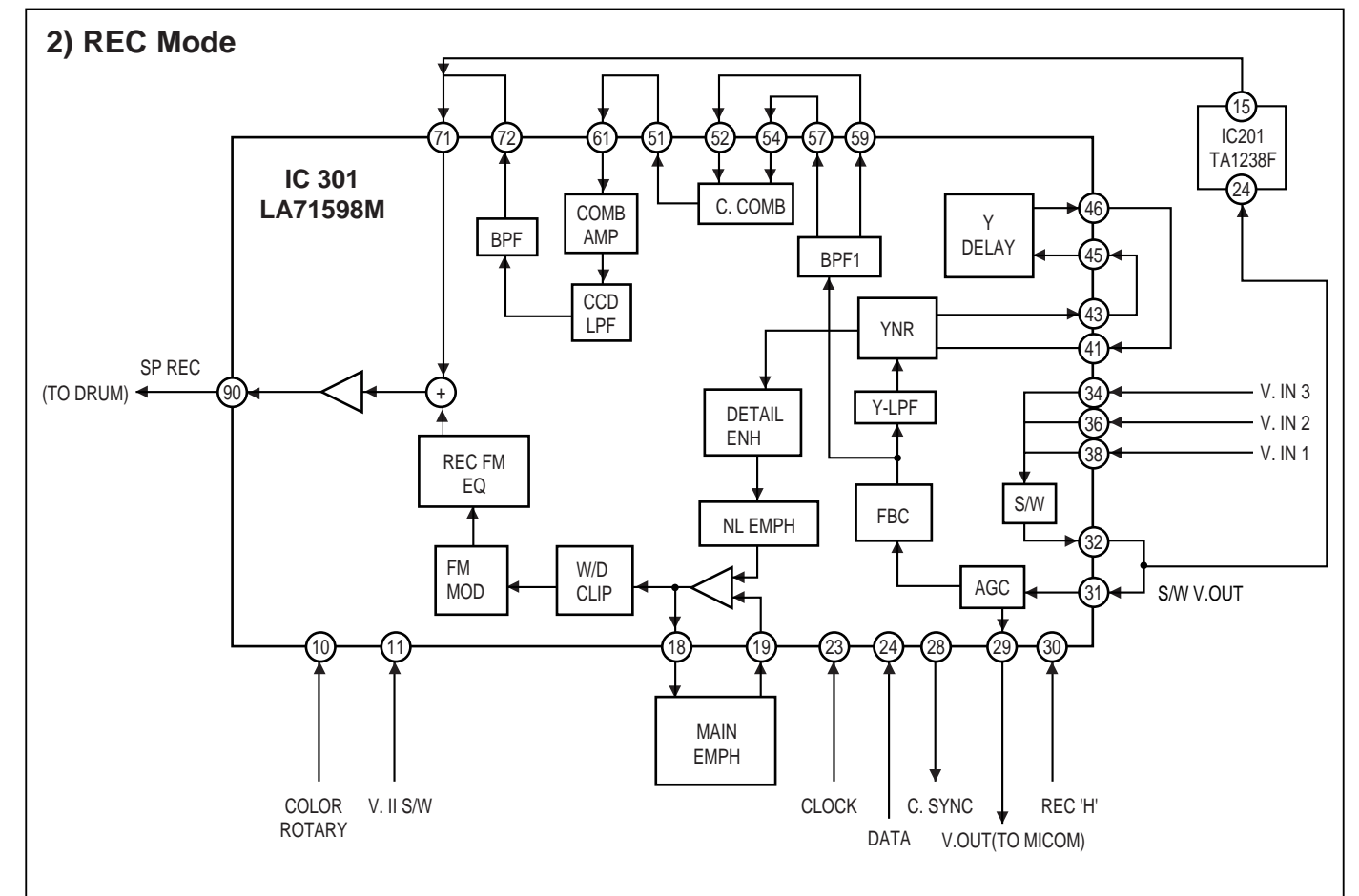
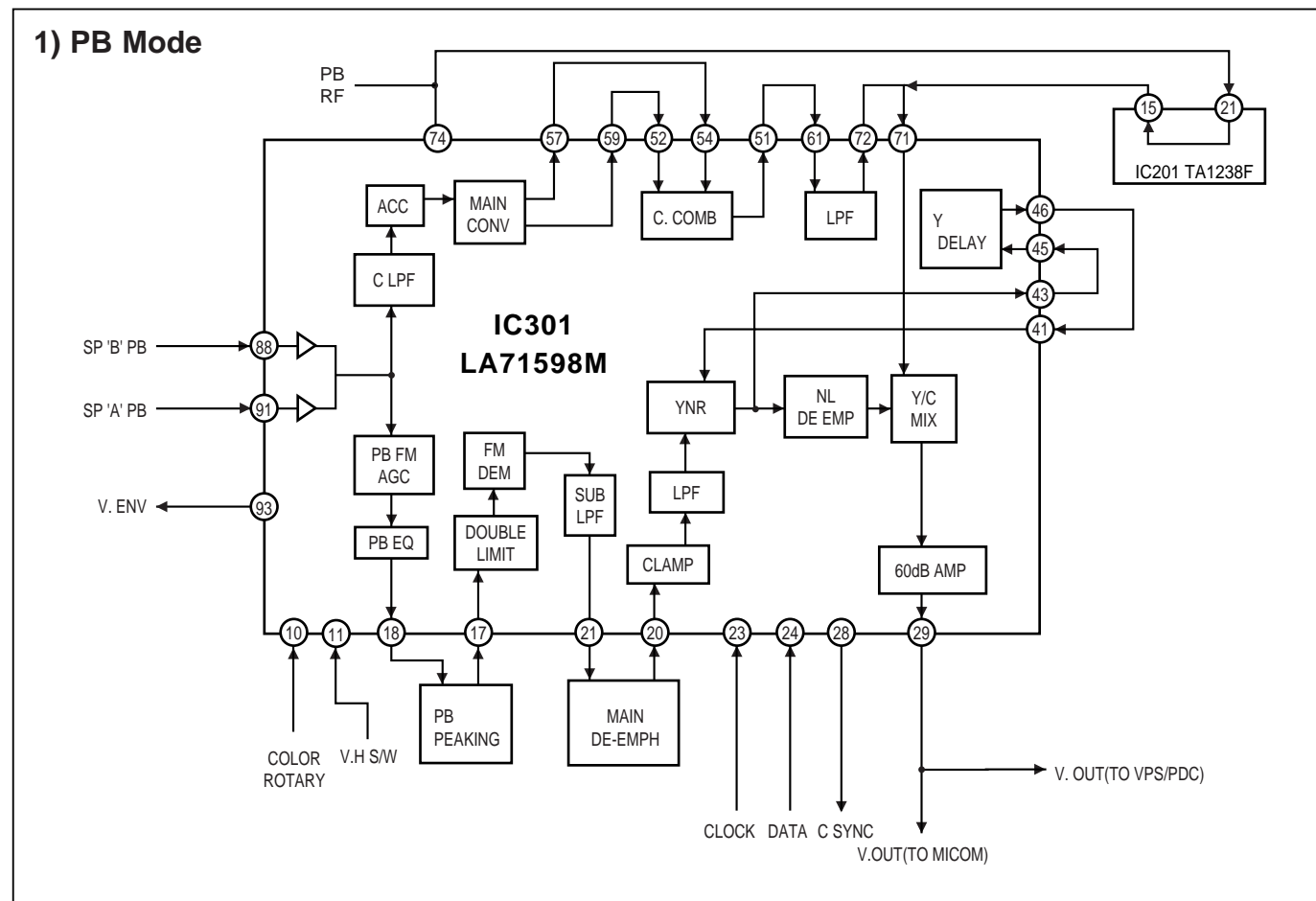
NOTES :  Symbol denotes AC ground.
 Symbol denotes DC chassis ground.

2. Tu/IF, NICAM & A2 Block Diagram



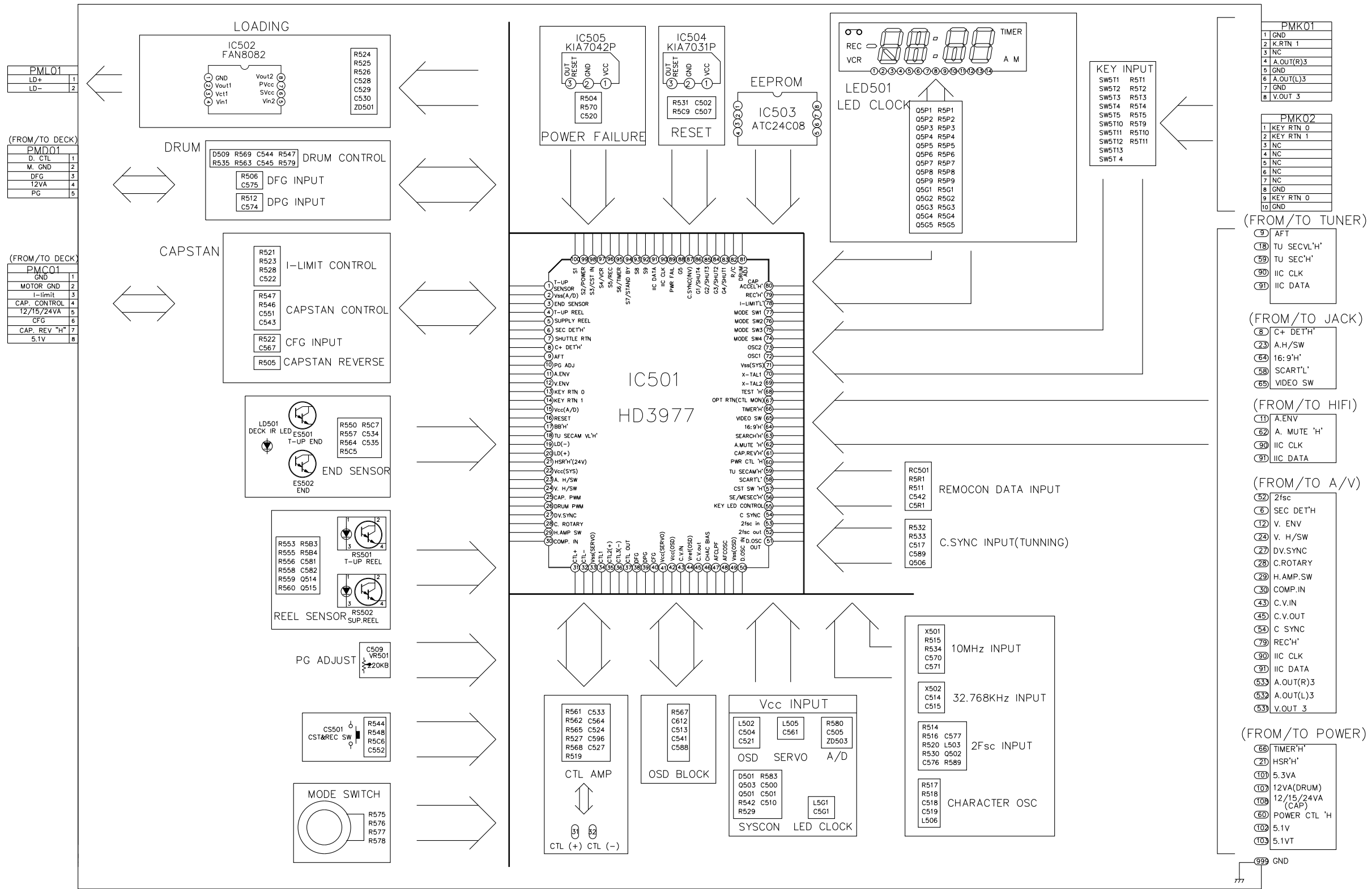
'99 12.8 R10488BA

3. Y/C Block Diagram



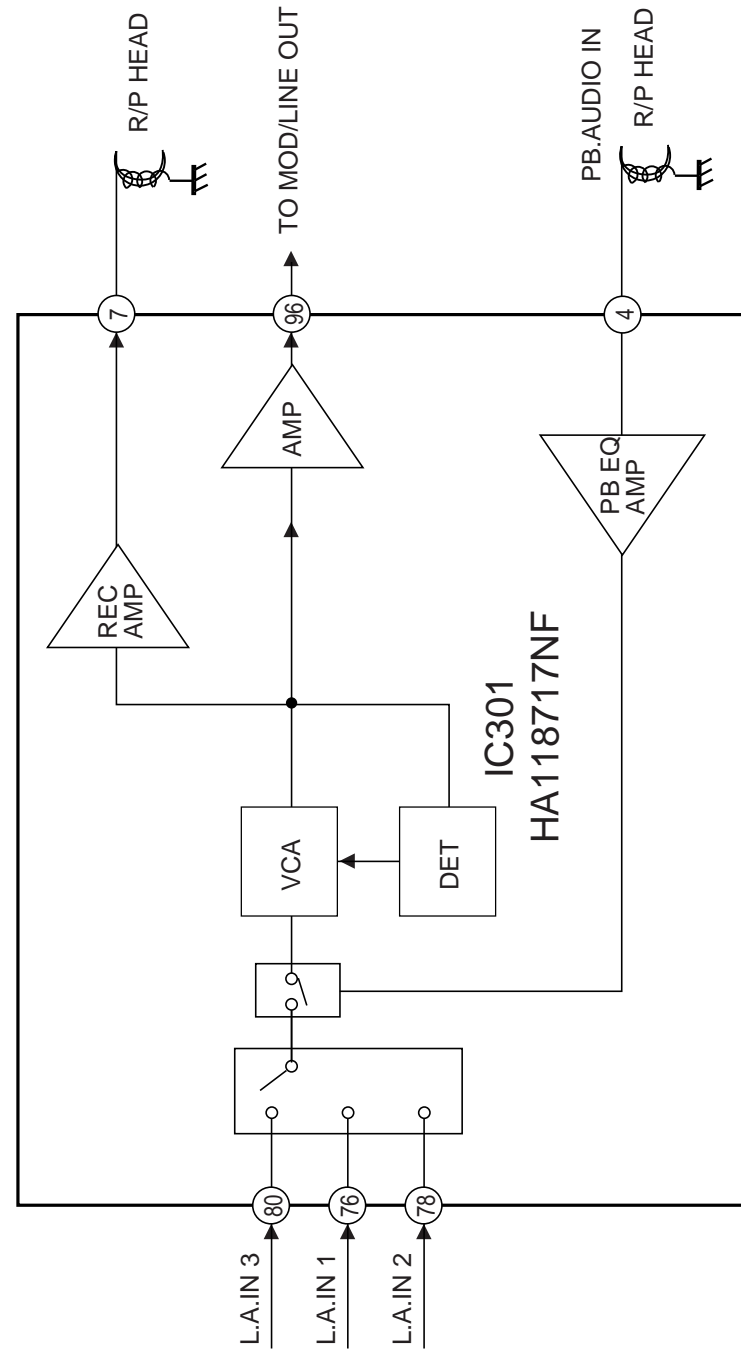
'00 11. 30 R10613A

4. System Block Diagram

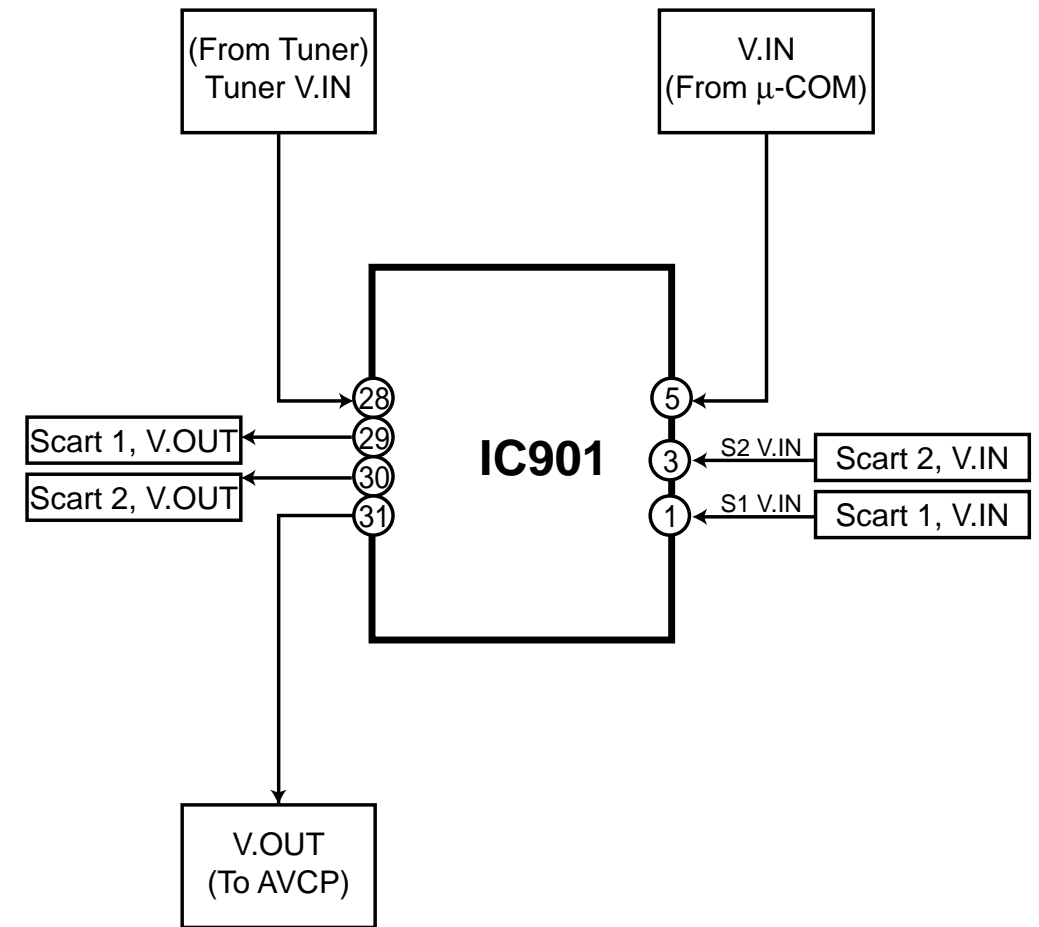


'00 11.30 R10465BA
BC999NS'S

5. AUDIO Block Diagram

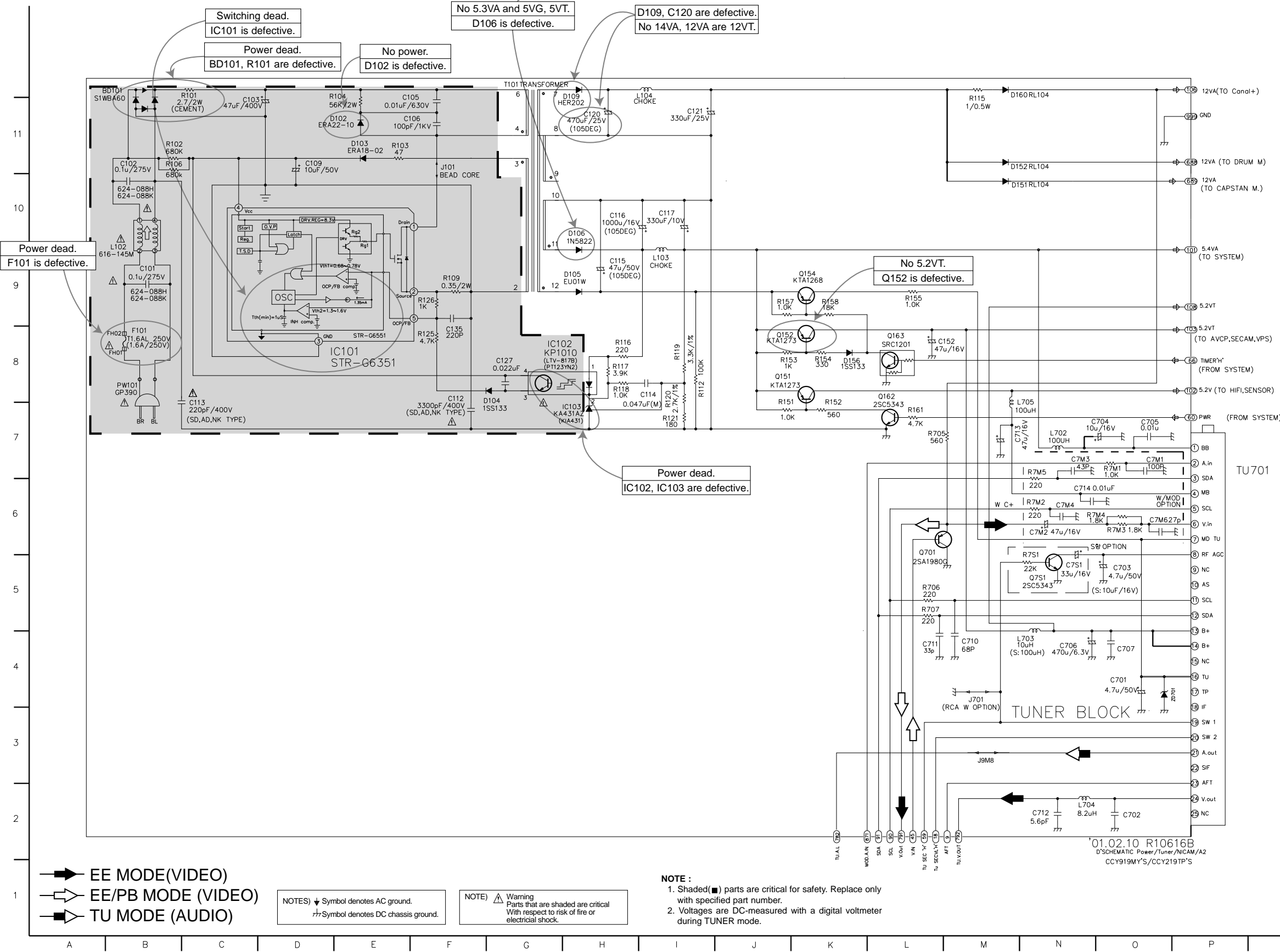


6. SCART Block Diagram



CIRCUIT DIAGRAMS

1. Power, Tuner, NICAM/A2 Circuit Diagram



* IC101 Voltage Sheet

PB	16.1	4.0
REC	16.3	4.6
5		
IC101		
1		
PB	309	0.0
REC	309	0.0

* IC102 Voltage Sheet

PB	4.0	0.0
REC	4.0	0.0
4		
IC102		
1		
PB	4.9	3.9
REC	4.9	4.0

LOCATION GUIDE

C101	B9	C770	B2	Q751	N5
C102	B11	C771	C2	R101	C11
C103	C11	C772	D3	R102	B11
C105	E11	C773	E2	R103	E11
C106	E11	C774	C7	R104	D11
C109	D11	C7M1	07	R106	B11
C112	F8	C7M2	N6	R109	F9
C113	C7	C7M3	N7	R112	I8
C114	I8	C7M4	N6	R115	M11
C115	H9	C7M6	O6	R116	H8
C116	H10	C751	N5	R117	H8
C117	I10	D102	D11	R118	H8
C120	H11	D103	E11	R119	I8
C121	I11	D104	F7	R120	I7
C127	G8	D105	H9	R121	I7
C135	F8	D106	H10	R125	F8
C152	L8	D109	H11	R126	F9
C701	04	D151	M10	R151	J7
C702	02	D152	M11	R152	K7
C703	05	D156	K8	R153	J8
C704	N7	D160	M12	R154	K8
C705	07	FH01	B8	R155	L9
C706	N4	FH02	B8	R157	J9
C707	04	IC101	D8	R158	K9
C710	M4	IC102	G8	R161	L7
C711	L4	IC103	H7	R705	L7
C712	N2	IC751	D5	R706	L5
C713	N7	J101	F11	R707	L5
C714	N6	J701	M4	R753	H6
C751	B7	J9M8	K3	R754	I7
C752	B7	L102	B10	R755	I6
C753	C2	L103	I9	R756	K7
C754	D3	L104	H11	R757	K5
C755	G4	L702	N7	R758	B6
C756	G5	L703	M4	R759	B5
C757	G6	L704	N2	R7M1	O7
C758	H5	L705	M7	R7M2	N6
C759	H7	L751	C7	R7M3	O6
C760	I6	L752	B3	R7M4	N6
C761	I5	L754	J7	R7M5	N7
C762	J6	L755	J6	R751	N5
C763	J6	PW101	B8	T101	G12
C764	J7	Q151	J8	TU701	F7
C765	J5	Q152	J8	X751	E3
C766	A5	Q154	K9	Z701	P4
C767	B5	Q162	L8		
C768	A3	Q163	L8		
C769	B4	Q701	L6		

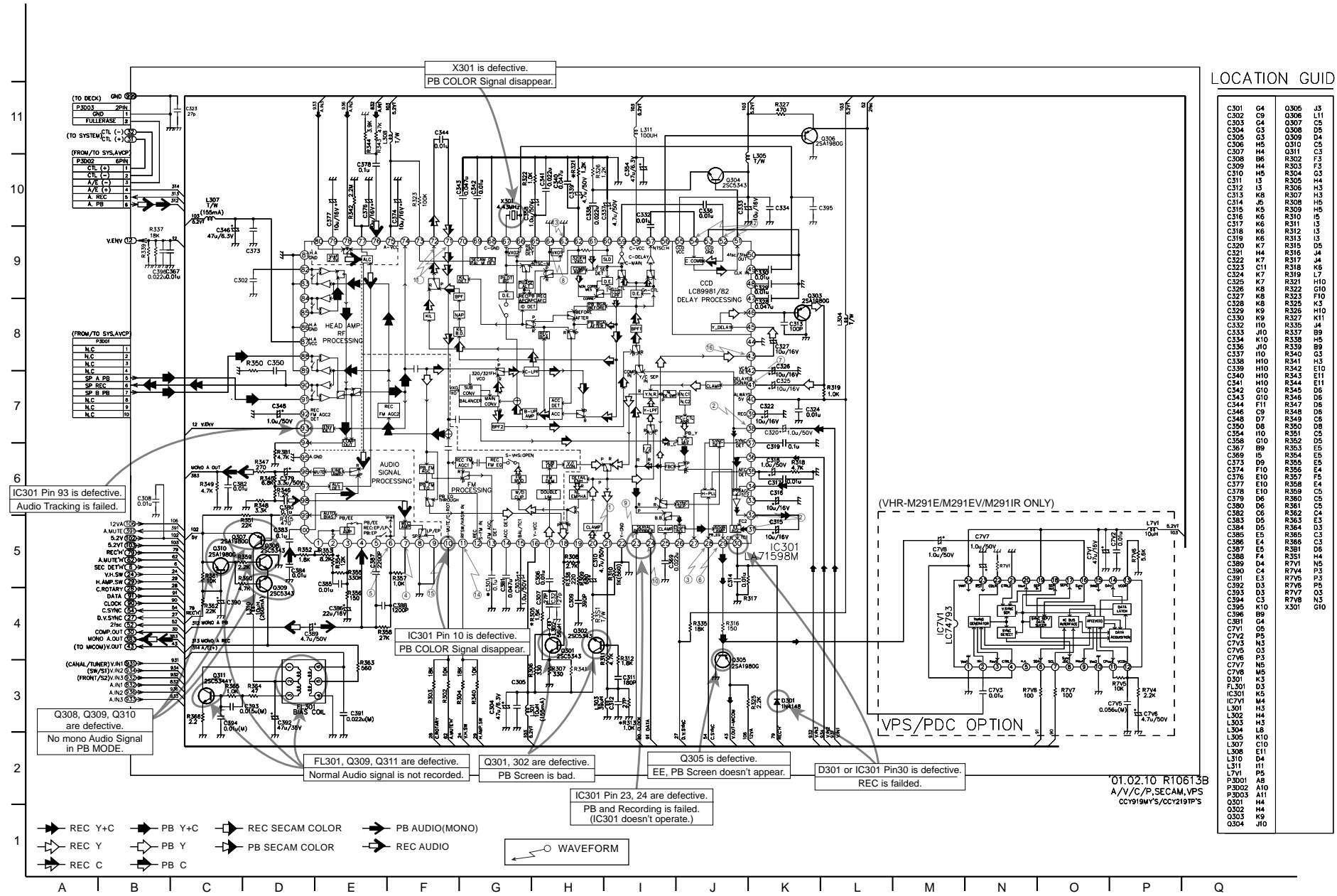
* TR Voltage Sheet

	Emitter		Collector		Base	
	PB	REC	PB	REC	PB	REC
Q151	11.9	11.8	14.8	15.0	12.5	12.4
Q152	9.4	9.3	11.8	11.6	10.0	9.9
Q514	-27.3	-27.9	-27.3	-27.8	-26.6	-27.0

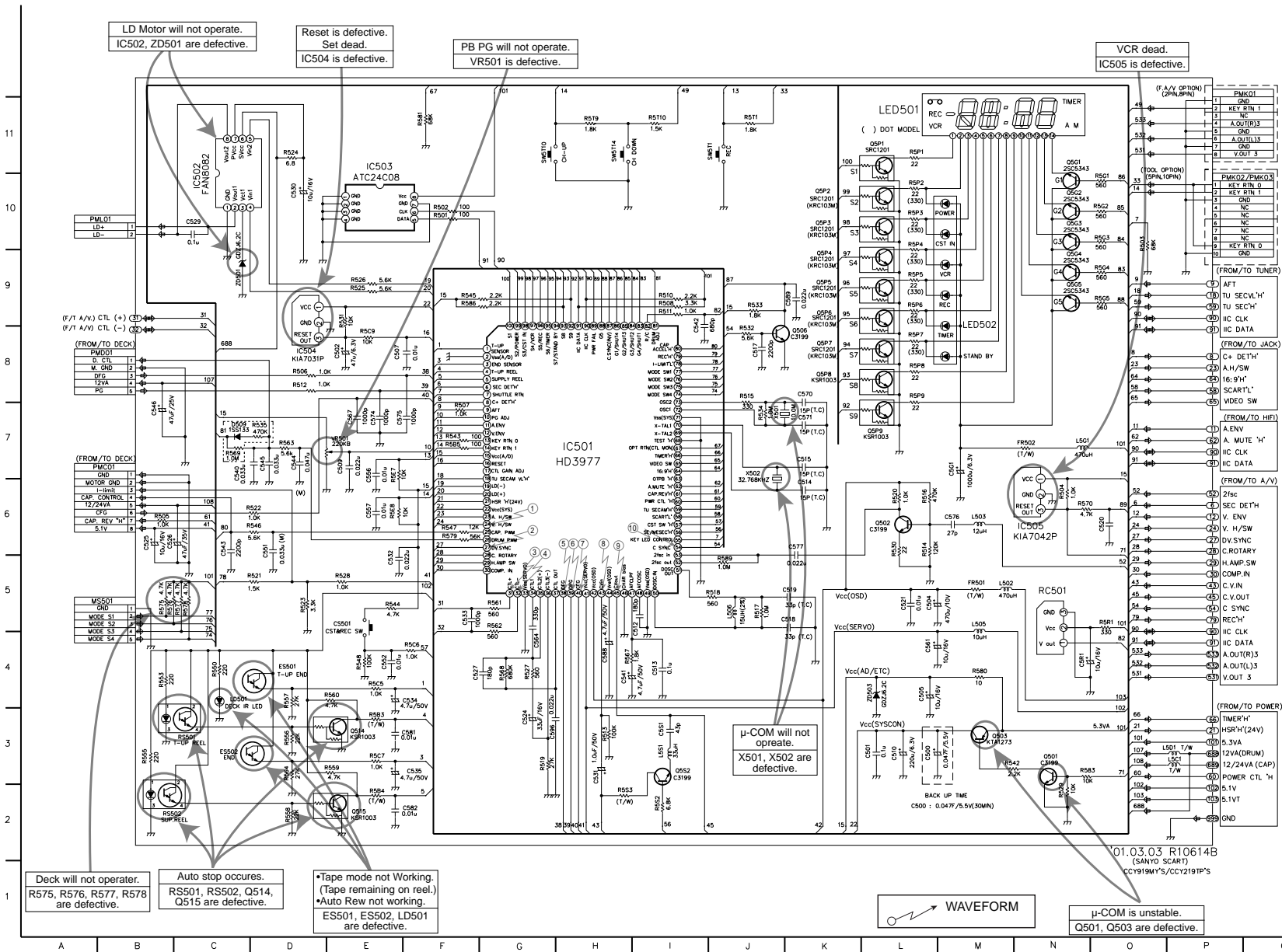
* IC103 Voltage Sheet

	Emitter		Collector		Base	
	PB	REC	PB	REC	PB	REC
IC103	2.5	2.5	0.0	0.0	3.9	3.9

2. A/V, SECAM, VPS Circuit Diagram



3. System Circuit Diagram



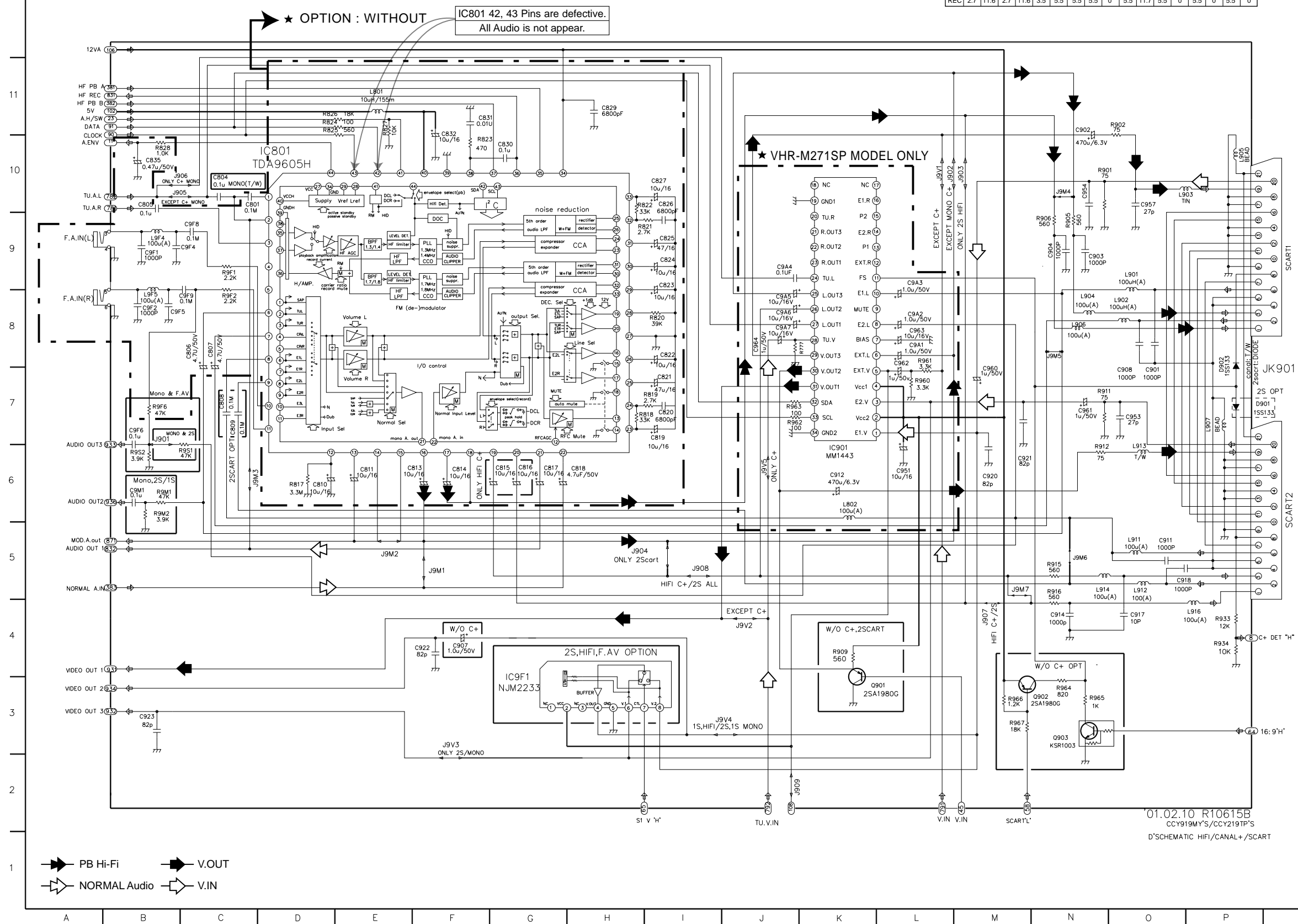
LOCATION GUIDE

C500 L3	PML01 A10	R579 F6
C501 L3	Q501 N3	R580 M4
C502 E8	Q502 L6	R581 F11
C504 L5	Q503 M3	R583 N3
C505 L4	Q506 K8	R586 F9
C507 E8	Q514 E3	R589 J5
C509 E3	Q515 E2	R583 E3
C510 L3	Q521 N11	R584 E2
C512 I4	Q522 N10	R585 F7
C513 I4	Q523 N10	R525 E4
C514 K6	Q524 N9	R526 F4
C515 K7	Q525 N9	R527 E3
C517 J8	Q521 L11	R529 E8
C518 J5	Q522 K10	R527 E6
C519 L5	Q523 K10	R528 E8
C520 O6	Q524 K9	R521 O10
C521 L5	Q525 K8	R522 O10
C524 G3	Q526 K9	R523 O10
C525 B6	Q527 K8	R524 O9
C526 B6	Q528 K8	R525 O9
C527 F4	Q529 L7	R521 L11
C529 C10	Q532 I3	R522 L10
C530 D10	R501 F10	R523 L10
C531 H5	R502 F10	R524 L10
C532 E5	R503 O9	R525 L9
C533 F5	R504 N6	R526 L9
C534 F4	R505 B6	R527 L8
C535 F3	R506 D8	R528 L8
C536 I6	R507 J5	R529 L8
C541 H4	R508 I9	R521 O5
C542 H4	R509 I9	R522 O2
C543 C5	R511 I9	R523 H2
C544 D4	R512 D8	R524 J1
C545 D7	R513 L5	R525 H1
C546 B7	R514 L5	R526 H1
C547 D5	R515 J8	R527 M5
C548 E4	R516 L6	R528 C3
C549 E6	R517 J5	R529 B2
C557 E6	R518 I5	R530 J1
C561 L4	R519 G3	R531 G11
C564 G4	R520 L6	R532 H11
C567 E7	R521 C5	R533 E7
C570 K8	R522 C6	R534 J7
C571 K7	R523 D5	R535 J7
C572 K8	R524 D11	R536 J7
C573 E7	R525 E9	R537 J4
C576 M6	R526 E9	R538 L5
C577 K6	R527 G4	R539 E8
C581 H4	R528 J8	R540 J8
C582 I3	R529 D7	R541 M3
C583 I3	R530 M3	R542 M3
C584 C7	R531 F7	R543 F7
C585 D4	R532 E6	R544 E6
C586 C3	R533 F9	R545 F9
C587 I5	R534 J7	R546 J7
C588 H4	R535 D7	R547 F4
C589 K9	R536 J8	R548 E4
C590 M7	R537 M3	R549 E4
C591 H4	R538 J8	R550 F4
C592 C3	R539 N2	R551 C4
C593 D4	R540 E6	R552 B4
C594 E3	R541 F9	R553 B4
C595 D4	R542 E6	R554 B3
C596 C3	R543 F9	R555 B3
C597 M5	R544 C6	R556 D3
C598 N7	R545 F4	R557 D4
C599 H7	R546 E4	R558 D3
C600 C10	R547 F4	R559 D3
IC501 E11	R550 C4	R560 D4
IC502 D8	R551 B3	R561 D4
IC503 E11	R552 B3	R562 D4
IC504 D8	R553 B3	R563 D4
IC505 N6	R554 D3	R564 D3
L502 M5	R555 D4	R565 D3
L503 M5	R556 D2	R566 D3
L505 M5	R557 D3	R567 D3
L506 J5	R558 D2	R568 D3
L507 J5	R559 D2	R569 D3
L501 O3	R560 D5	R570 N6
L502 N7	R561 D7	R571 B5
L503 I3	R562 D5	R572 B5
L504 I3	R563 D7	R573 C5
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L506 C4	R565 D7	R575 C5
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L691 C4		

4. SCART Circuit Diagram

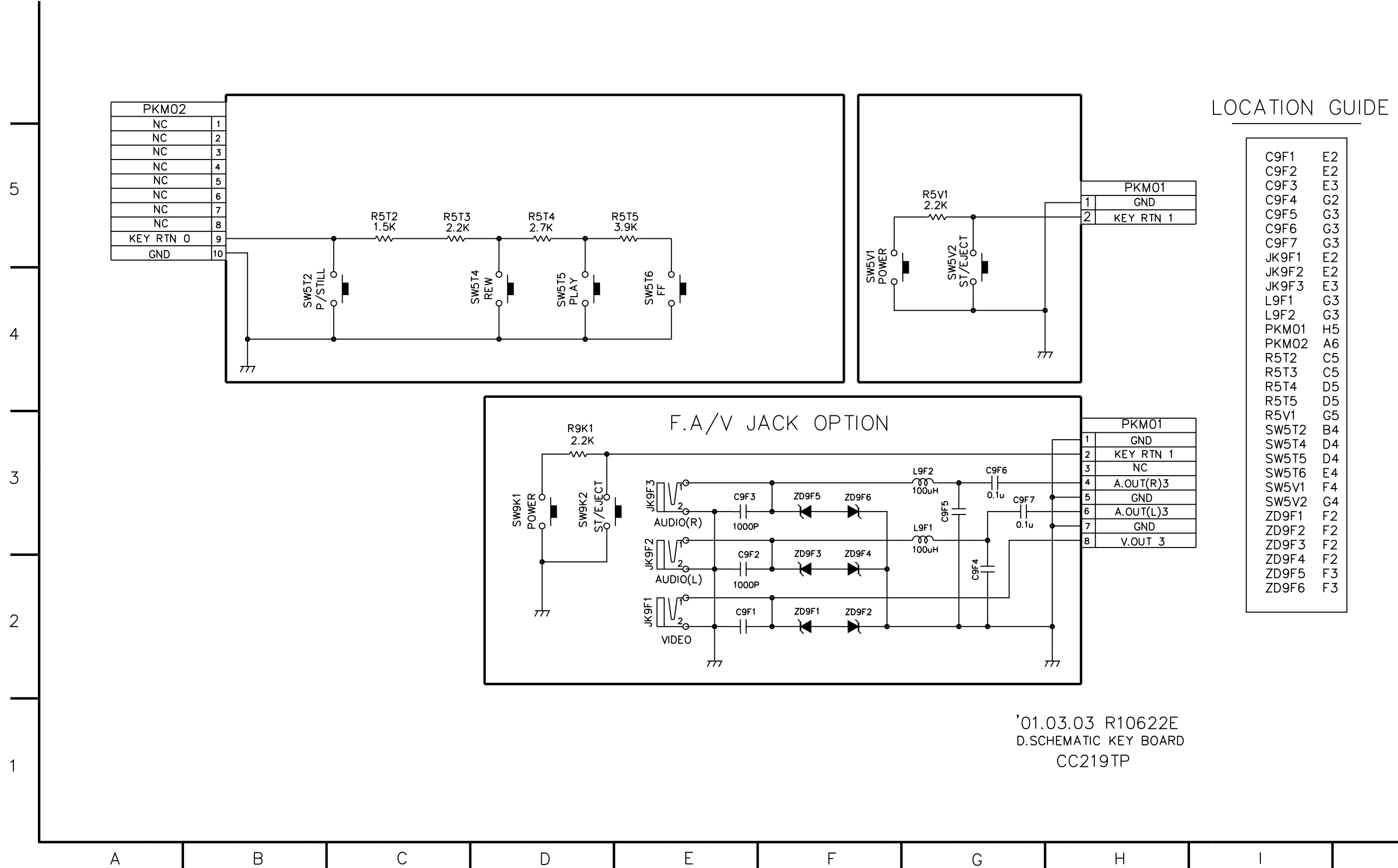
* IC901 Voltage Sheet

PB	0	4.8	4.7	3.8	1.5	1.5	3.3	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0
REC	0	4.8	4.7	3.8	1.5	1.5	3.3	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	0
30 25 20																
IC901(MM1443)																
5 10 15																
PB	2.7	11.6	2.7	11.6	3.5	5.5	5.5	0	5.5	11.7	5.5	0	5.5	0	5.5	0
REC	2.7	11.6	2.7	11.6	3.5	5.5	5.5	0	5.5	11.7	5.5	0	5.5	0	5.5	0



01.02.10 R10615B
 CCY919MYS/CCY219TP'S
 D'SCHEMATIC HIFI/CANAL+/SCART

5. SHUTTLE & KEY Circuit Diagram

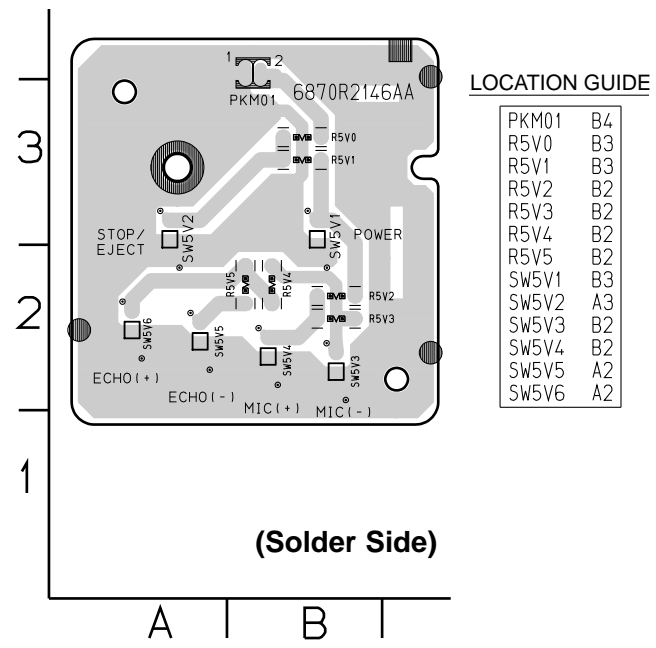


LOCATION GUIDE

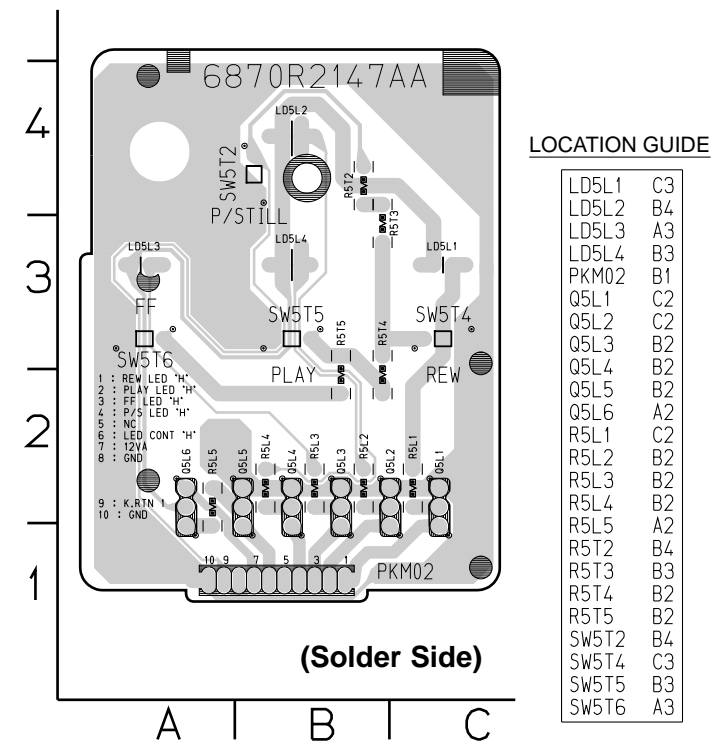
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C9F2	E2
C9F3	E3
C9F4	G2
C9F5	G3
C9F6	G3
C9F7	G3
JK9F1	E2
JK9F2	E2
JK9F3	E3
L9F1	G3
L9F2	G3
PKM01	H5
PKM02	A6
R5T2	C5
R5T3	C5
R5T4	D5
R5T5	D5
R5V1	G5
SW5T2	B4
SW5T4	D4
SW5T5	D4
SW5T6	E4
SW5V1	F4
SW5V2	G4
ZD9F1	F2
ZD9F2	F2
ZD9F3	F2
ZD9F4	F2
ZD9F5	F3
ZD9F6	F3

'01.03.03 R10622E
D.SCHEMATIC KEY BOARD
CC219TP

2. KEY 1 P.C.Board



3. KEY 2 P.C.Board



SECTION 4 MECHANISM

CONTENTS

DECK MECHANISM PARTS

LOCATIONS

- Top View4-1
- Bottom View4-1

DECK MECHANISM DISASSEMBLY

1. Drum Assembly4-3
2. Plate Assembly Top4-4
3. Holder Assembly CST4-4
4. Guide CST4-4
5. Bracket Side(L)/Bracket Assembly Door
.....4-4
6. Arm Assembly F/L4-4
7. Lever Assembly S/W4-4
8. Arm Assembly Cleaner.....4-6
9. Head F/E4-6
10. Base Assembly A/C Head4-6
11. Brake Assembly S4-7
12. Brake Assembly T4-7
13. Arm Assembly Tension4-7
14. Reel S/Reel T4-7
15. Support CST4-8
16. Base Assembly P44-8
17. Opener Lid4-8
18. Arm Assembly T/up4-8
19. Arm Assembly Pinch4-8
20. Belt Capstan/Motor Capstan4-9
21. Clutch Assembly D33-K4-9
22. Lever F/R4-9
23. Gear H-up/D-K4-9
24. Bracket Assembly Jog4-10
25. Guide Rack F/L, Gear Rack F/L4-10
26. Brake Assembly Capstan4-10
27. Gear Drive/Gear Cam/Gear Connector
.....4-11
28. Bracket Assembly L/D Motor4-11
29. Gear Sector4-12
30. Base Tension/Plate Slider/Lever Tension
.....4-12
31. Gear Assembly P3/Gear Assembly P2
.....4-13
32. Base Assembly P3/Base Assembly P2
.....4-13
33. Arm Assembly Idler Jog4-13

DECK MECHANISM ADJUSTMENT

- Tools and Fixtures for Service.....4-14
1. Mechanism and Mode Switch Alignment
Check4-15
 2. Deck Preparation for Adjustment4-17
 3. Checking Torque4-17
 4. Guide Roller Height Adjustment4-18
 - 4-1. Preliminary Adjustment4-18
 - 4-2. Precise Adjustment4-18
 5. Audio/Control (A/C) Head Adjustment4-19
 - 5-1. Preliminary Adjustment4-19
 - 5-2. Confirmation of Tape Path between
Pinch Roller and Take-up Guide4-20
 - 5-3. Precise Adjustment(Azimuth Adjustment)
.....4-20
 6. X-Value Adjustment4-20
 7. Adjustment after Replacing Drum Assembly
(Video Heads)4-21
 8. Check the Tape Travel after Reassembling
Deck Mechanism.....4-21
 - 8-1. Checking Audio and RF Locking Time
during Playback after CUE or REV
.....4-21
 - 8-2. Checking Tape Curling or Jamming
.....4-21

MAIN TENANCE/INSPECTION PROCEDURE

1. Check before starting Repairs4-22
2. Required Maintenance4-24
3. Scheduled Maintenance.....4-24
4. Supplies Required for Inspection and
Maintenance4-24
5. Maintenance Procedure4-24
 - 5-1. Cleaning4-24
 - 5-2. Greasing4-25

MECHANISM TROUBLESHOOTING GUIDE

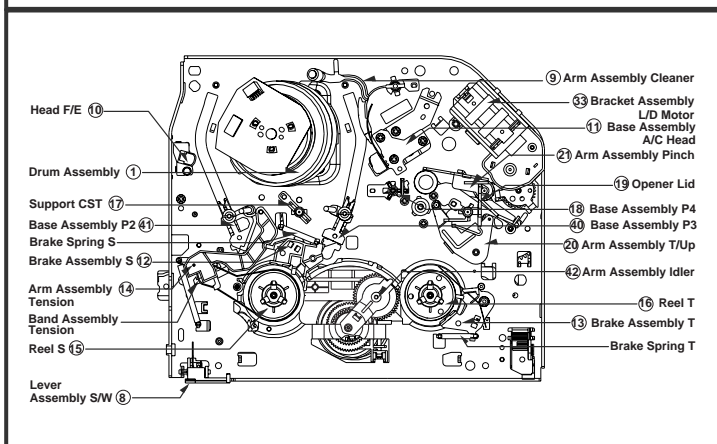
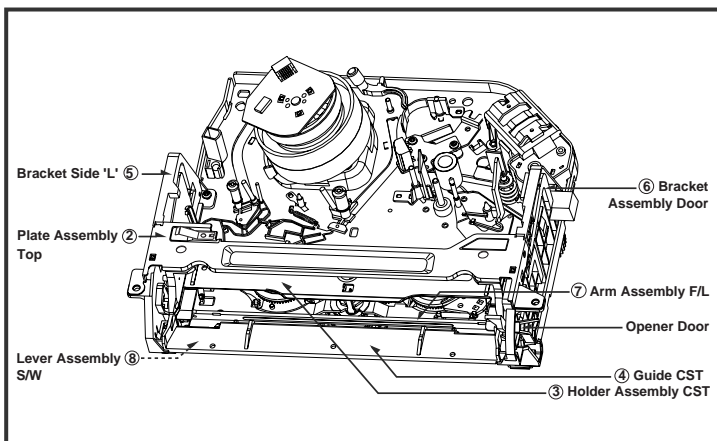
1. Deck Mechanism.....4-26
2. Front Loading Mechanism.....4-29

EXPLODED VIEWS

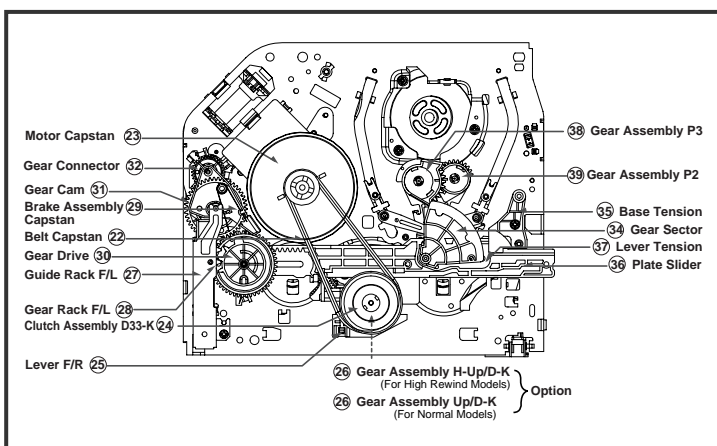
1. Front Loading Mechanism Section4-31
 2. Moving Mechanism Section (1).....4-32
 3. Moving Mechanism Section (2).....4-33
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DECK MECHANISM PARTS LOCATIONS (FOR NORMAL MODELS)

• Top View



• Bottom View



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

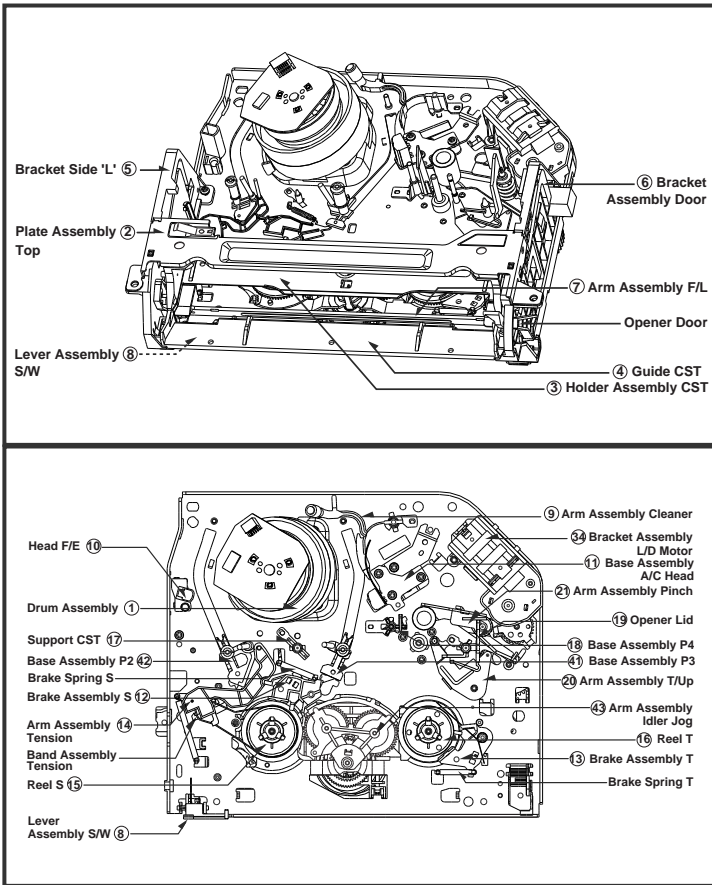
- 1) When reassembling, confirm Mechanism and Mode Switch Alignment Position (Pefer to Page 4-14)
- 2) When disassembling, the Parts for Starting No. Should be removed first.

Starting No.	Pracudure	Part	Fixing Type	Figure
	1	Drum Assembly	3 Screws , Cap FPC	A-1
	2	Plate Assembly Top	Two Hooks	A-2
2	3	Holder Assembly CST	Chassis Hole	A-2
	4	Guide CST	2 Hooks	A-2
2,3,4	5	Bracket Side (L)	1 Screw	A-2
2,3,4	6	Bracket Assembly Door	1 Screw	A-2
2,3,4,5,6	7	Arm Assembly F/L	Chassis Hole	A-2
2,3,4,5	8	Lever Assembly S/W	Chassis Hole	A-2
	9	Arm Assembly Cleaner	Chassis Embossing	A-3
	10	Head F/E	2 Hooks	A-3
	11	Base Assembly A/C Head	1 Screw	A-3
	12	Brake Assembly S	Chassis Hole	A-4
2,3	13	Brake Assembly T	Chassis Hole	A-4
2,3,12,	14	Arm Assembly Tension	Chassis Hole	A-4
2,3,12,14	15	Reel S	Chassis Shaft	A-4
2,3,13	16	Reel T	Chassis Shaft	A-4
	17	Support CST	Chassis Embossing	A-5
	18	Base Assembly P4	Chassis Embossing	A-5
	19	Opener Lid	Chassis Embossing	A-5
19	20	Arm Assembly T/Up	Chassis Embossing	A-5
19	21	Arm Assembly Pinch	Chassis Shaft	A-5

Starting No.	Pracudure	Part	Fixing Type	Figure
22	22	Belt Capstan	3 Screws	A-6
	23	Motor Capstan	1 Washer	A-6
	24	Clutch Assembly D33-K	1 Hook	A-6
22,24	25	Lever F/R	2 Washers	A-6
22,24	26	Gear H-Up/D-K	1 Screw	A-7
	27	Guide Rack F/L	1 Screw	A-7
27	28	Gear Rack F/L	Chassis Shaft	A-7
27, 28	29	Brake Assembly Capstan	1 Washer	A-8
27, 28	30	Gear Drive	Chassis Shaft	A-8
27, 28, 29	31	Gear Cam	Chassis Shaft	A-8
27, 28, 29, 30	32	Gear Connector	3 Hooks	A-8
	33	Bracket Assembly L/D Motor	3 Washers	A-9
	34	Gear Sector	1 Screw	A-9
	35	Base Tension	Chassis Shaft	A-9
22, 24, 25,	36	Plate Slider		A-9
27, 28, 30,				
34, 35				
22, 24, 25,	37	Lever Tension	Chassis Hole	A-9
27, 28, 30,				
34, 35				
34	38	Gear Assembly P3	2 Hooks	A-10
34, 38	39	Gear Assembly P2	2 Hooks	A-10
34, 38, 39	40	Base Assembly P3	Chassis Hole	A-10
34, 38, 39, 40	41	Base Assembly P2	Chassis Hole	A-10
1, 2	42	Arm Assembly Idler	1 Hook	A-10

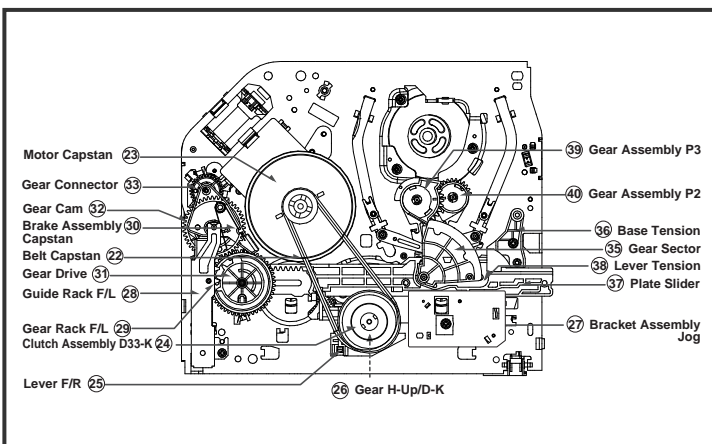
DECK MECHANISM PARTS LOCATIONS (FOR JOG SHUTTLE MODELS)

• Top View



Starting No.	Pracudure		Figure	
	Part	Fixing Type		
2	1	Drum Assembly	3 Screws , Cap FPC	A-1
	2	Plate Assembly Top	Two Hooks	A-2
2,3,4	3	Holder Assembly CST	Chassis Hole	A-2
	4	Guide CST	2 Hooks	A-2
2,3,4,5,6	5	Bracket Side (L)	1 Screw	A-2
	6	Bracket Assembly Door	1 Screw	A-2
2,3,4,5	7	Arm Assembly F/L	Chassis Hole	A-2
	8	Lever Assembly S/W	Chassis Hole	A-2
2,3	9	Arm Assembly Cleaner	Chassis Embossing	A-3
	10	Head F/E	2 Hooks	A-3
2,3	11	Base Assembly A/C Head	1 Screw	A-3
	12	Brake Assembly S	Chassis Hole	A-4
2,3,12,14	13	Brake Assembly T	Chassis Hole	A-4
	14	Arm Assembly Tension	Chassis Hole	A-4
2,3,13	15	Reel S	Chassis Shaft	A-4
	16	Reel T	Chassis Shaft	A-4
19	17	Support CST	Chassis Embossing	A-5
	18	Base Assembly P4	Chassis Embossing	A-5
19	19	Opener Lid	Chassis Embossing	A-5
	20	Arm Assembly T/Up	Chassis Embossing	A-5
19	21	Arm Assembly Pinch	Chassis Shaft	A-5

• Bottom View



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

- 1) When reassembling, confirm Mechanism and Mode Switch Alignment Position (Pefer to Page 4-14)
- 2) When disassembling, the Parts for Starting No. Should be removed first.

Starting No.	Pracudure		Figure	
	Part	Fixing Type		
22	22	Belt Capstan	3 Screws	A-6
	23	Motor Capstan	1 Washer	A-6
22,24	24	Clutch Assembly D33-K	1 Hook	A-6
	25	Lever F/R	2 Washers	A-6
22,24	26	Gear H-Up/D-K	1 Screw	A-7
	27	Bracket Assembly Jog	1 Screw	A-7
28	28	Guide Rack F/L	1 Screw	A-7
	29	Gear Rack F/L	Chassis Shaft	A-7
28,29	30	Brake Assembly Capstan	1 Washer	A-8
	31	Gear Drive	Chassis Shaft	A-8
28,29,30	32	Gear Cam	Chassis Shaft	A-8
	33	Gear Connector	Chassis Shaft	A-8
28,29,30,31	34	Bracket Assembly L/D Motor	3 Hooks	A-8
	35	Gear Sector	3 Washers	A-9
22,24,25,27,28,29,31,35,36	36	Base Tension	1 Screw	A-9
	37	Plate Slider	Chassis Shaft	A-9
22,24,25,27,28,29,31,35,36	38	Lever Tension	Chassis Hole	A-9
	39	Gear Assembly P3	2 Hooks	A-10
35,39	40	Gear Assembly P2	2 Hooks	A-10
	41	Base Assembly P3	Chassis Hole	A-10
35,39,40	42	Base Assembly P2	Chassis Hole	A-10
	43	Arm Assembly Idler Jog	1 Hook	A-10

DECK MECHANISM DISASSEMBLY

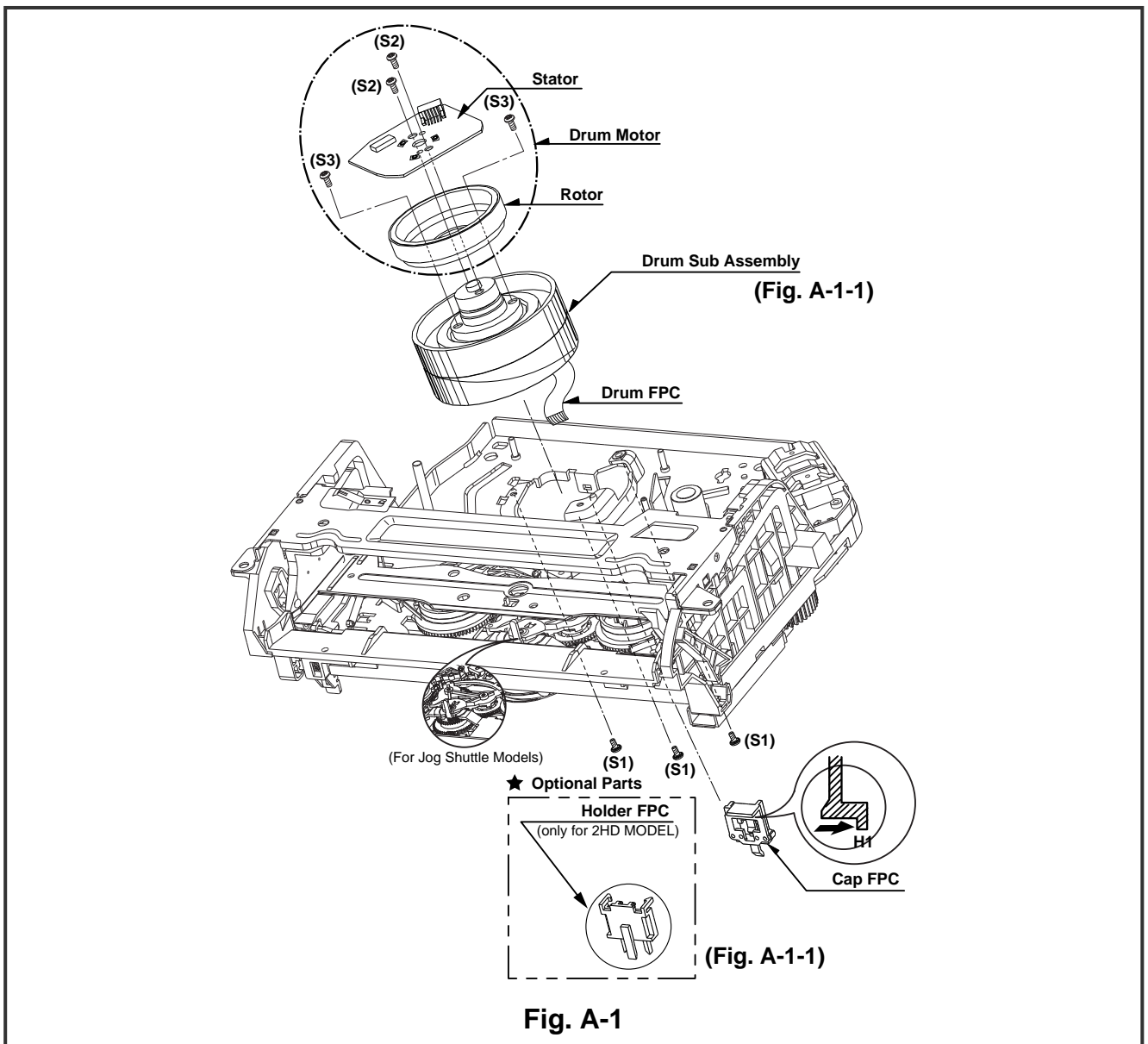


Fig. A-1

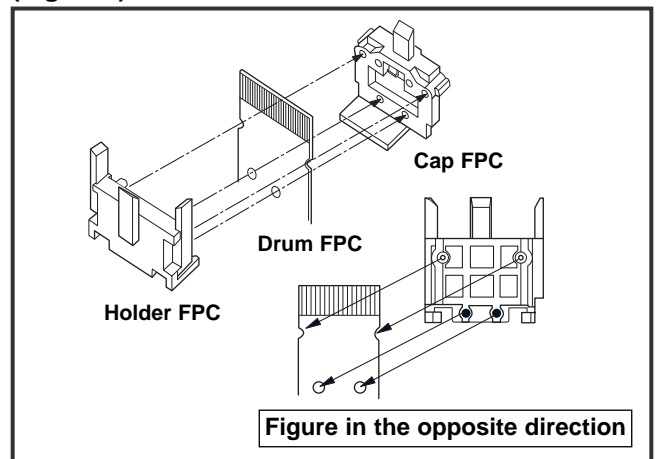
1. Drum Assembly (Fig. A-1-1)

- 1) Unhook the (H1) on the back side of the Chassis and separate the Cap FPC.
- 2) Remove three Screws (S1) and lift up the Drum Assembly.
- 3) Remove two Screws (S2) and Separate the Stator of Drum Motor.
- 4) Remove two Screws (S3) and Separate the Rotor of Drum Motor from the Drum Sub Assembly.

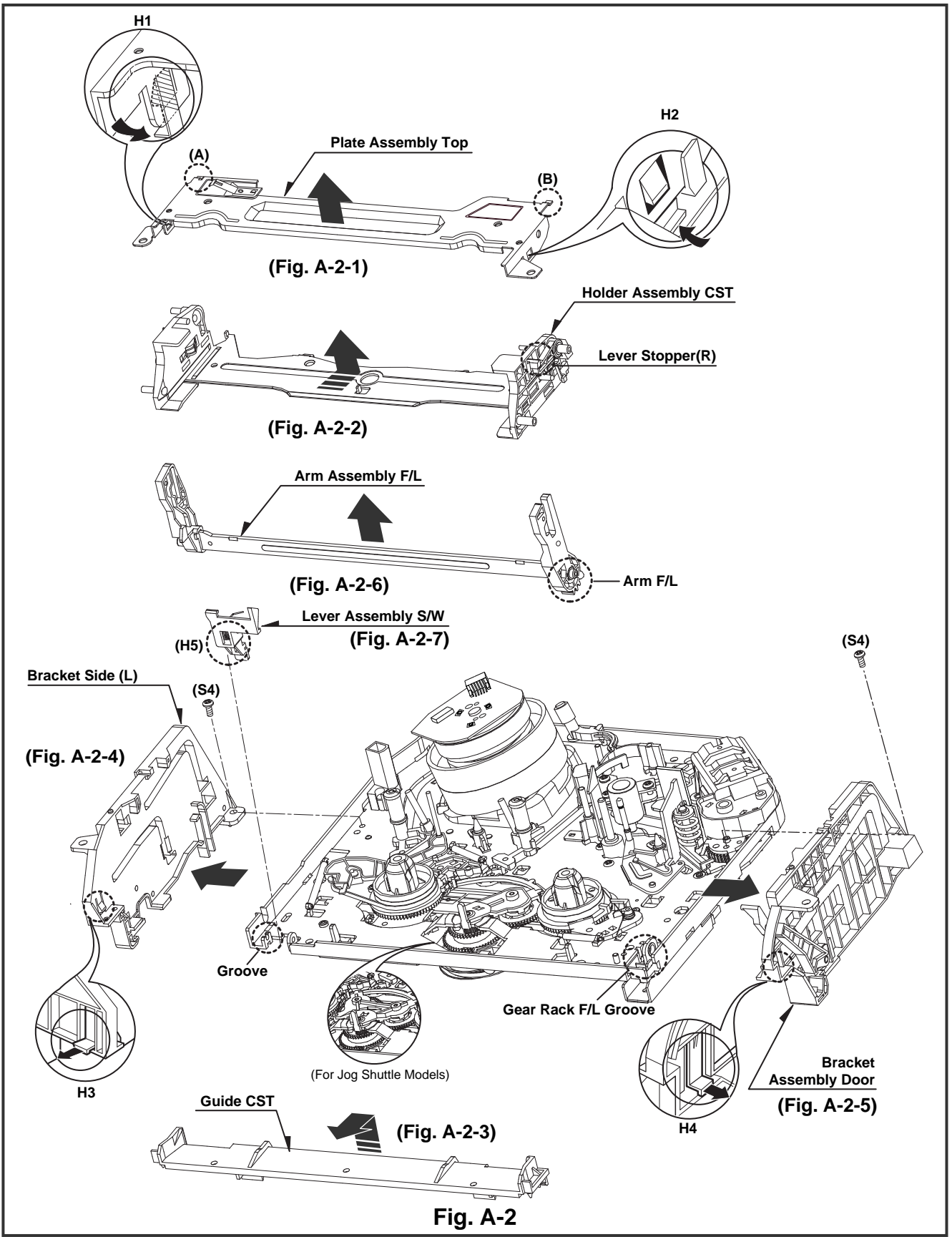
NOTE

- (1) When reassembling Cap FPC, two Holes of Drum FPC are inserted to the two Bosses of Holder FPC correctly. (Refer to Fig. B-1)

(Fig. B-1)



DECK MECHANISM DISASSEMBLY



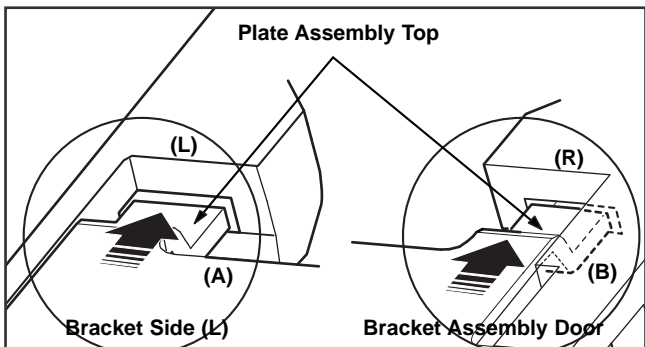
DECK MECHANISM DISASSEMBLY

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

- 1) Unhook the (H1) and separate the Left Side.
- 2) Unhook the (H2) and lift up the Plate Assembly Top.

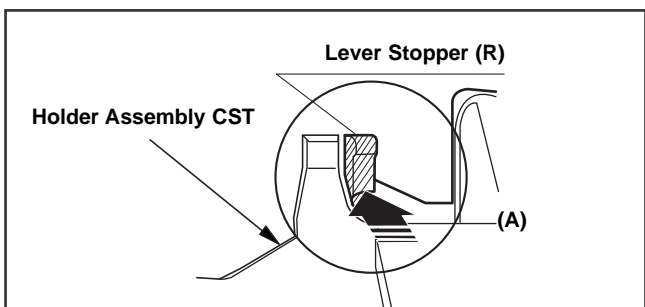
NOTE

- (1) When reassembling, confirm (A),(B) Part of the Plate Assembly Top is inserted to the (L),(R) Grooves of the Bracket Side(L) and Bracket Assembly Door.

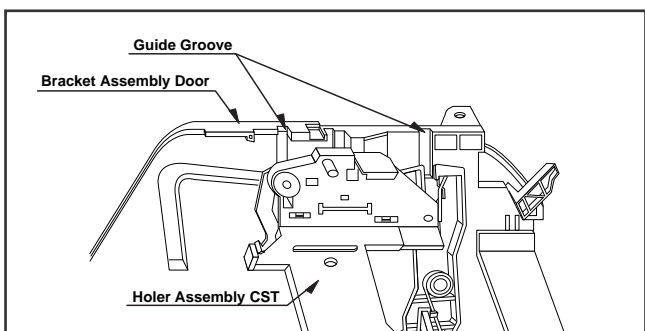


3. Holder Assembly CST (Fig.A-2-2)

- 1) Push the Lever Stopper (R) in the direction of the arrows (A) and move the Holder Assembly CST.

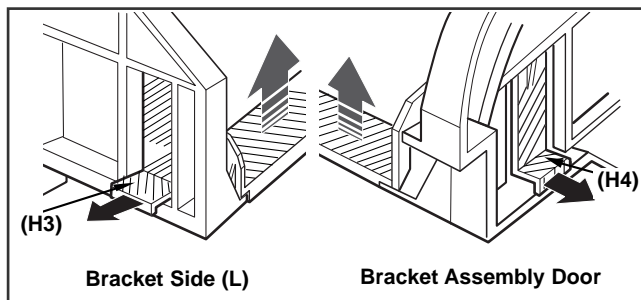


- 2) Push the Bracket Assembly Door to the right and lift up the Holder Assembly CST along the Guide Groove of the Bracket Assembly Door.



4. Guide CST (Fig.A-2-3)

- 1) Unhook(H3) in the direction of the arrow and separate the left side.
- 2) Unhook (H4) as above No.1) and disassemble the Guide CST in the direction of the arrow.



5. Bracket Side(L) (Fig. A-2-4)/ Bracket Assembly Door (Fig.A-2-5)

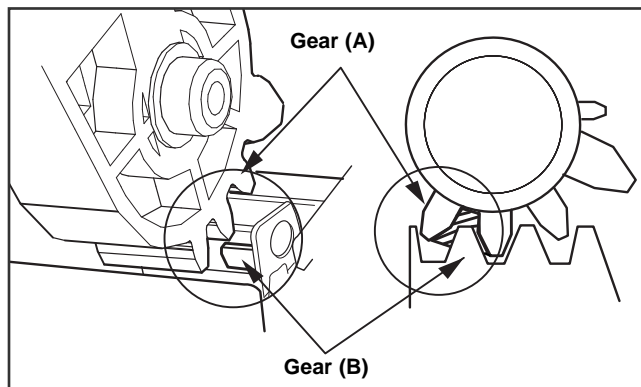
- 1) Remove the Screw (S4) and disassemble the Bracket Side(L) in the front.
- 2) Remove the Screw (S4) and disassemble the Bracket Assembly Door in the front.

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

- 1) Push the Arm Assembly F/L to the left and lift up it.

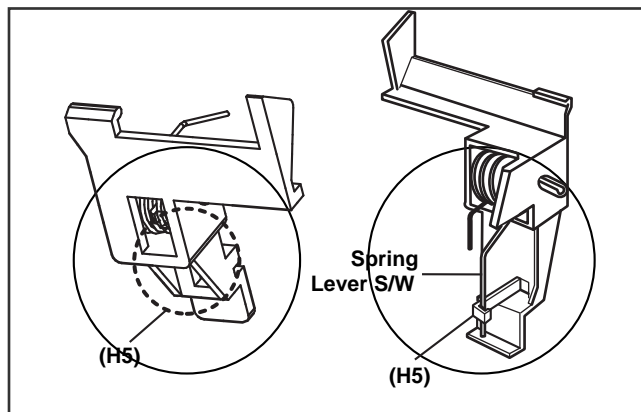
NOTE

- (1) When reassembling, confirm that the Gear(A) of the Arm F/L and the Gear(B) of the Gear Rack F/L are assembled as below.

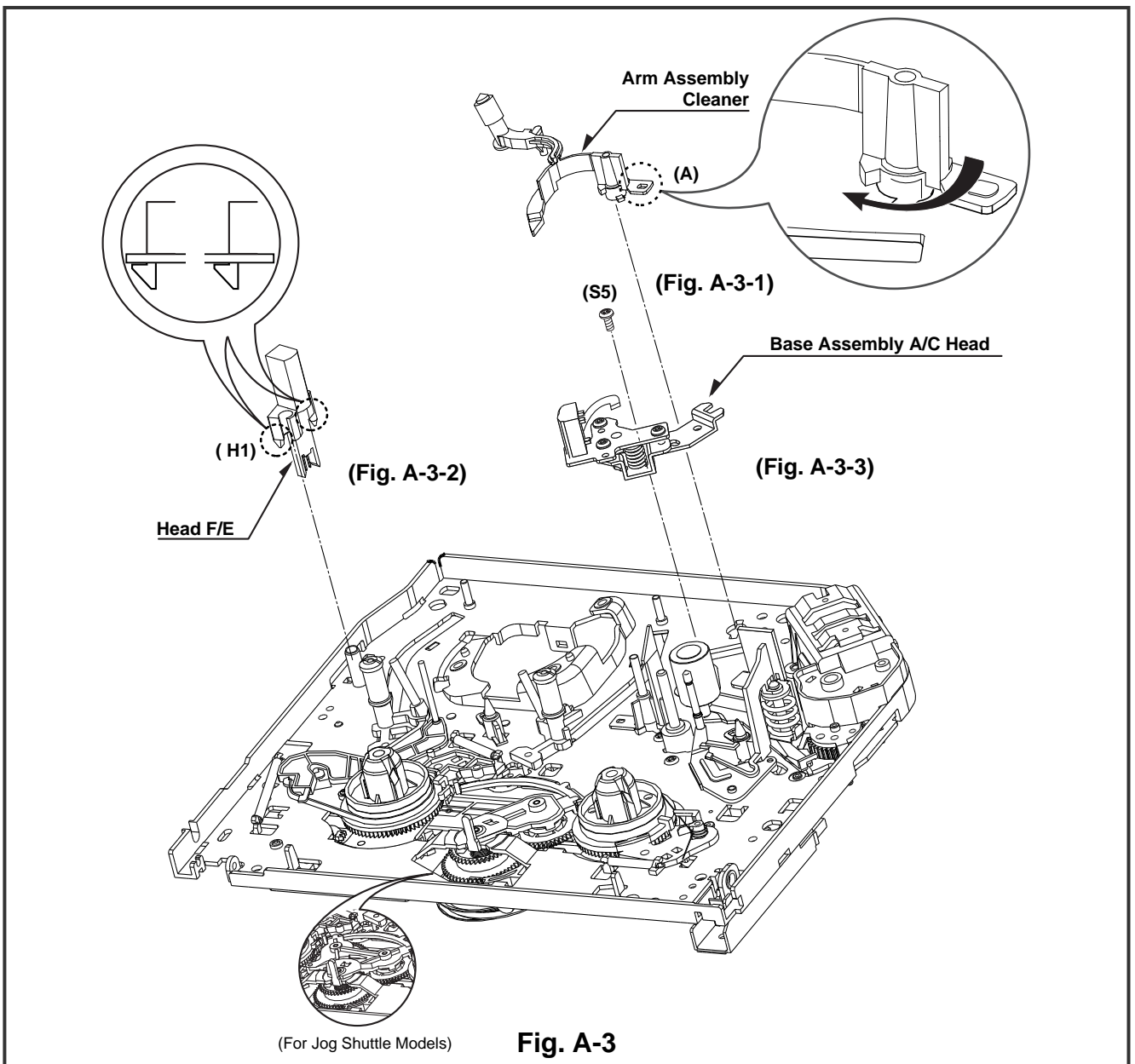


7. Lever Assembly S/W (Fig. A-2-7)

- 1) Hook the Spring Lever S/W on (H5).
- 2) Lift up the left side of the Lever S/W from the Groove(A) of the Chassis.



DECK MECHANISM DISASSEMBLY

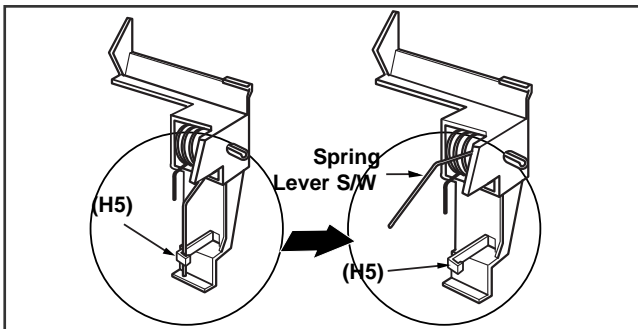


(For Jog Shuttle Models)

Fig. A-3

NOTE

- (1) Place the Spring Lever S/W of the above (No.1) as original position.



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

- 1) Break away the (A) part shown above Fig. A-3-1 from the Embossing of the Chassis in the clockwise direction and lift up the Arm Assembly Cleaner.

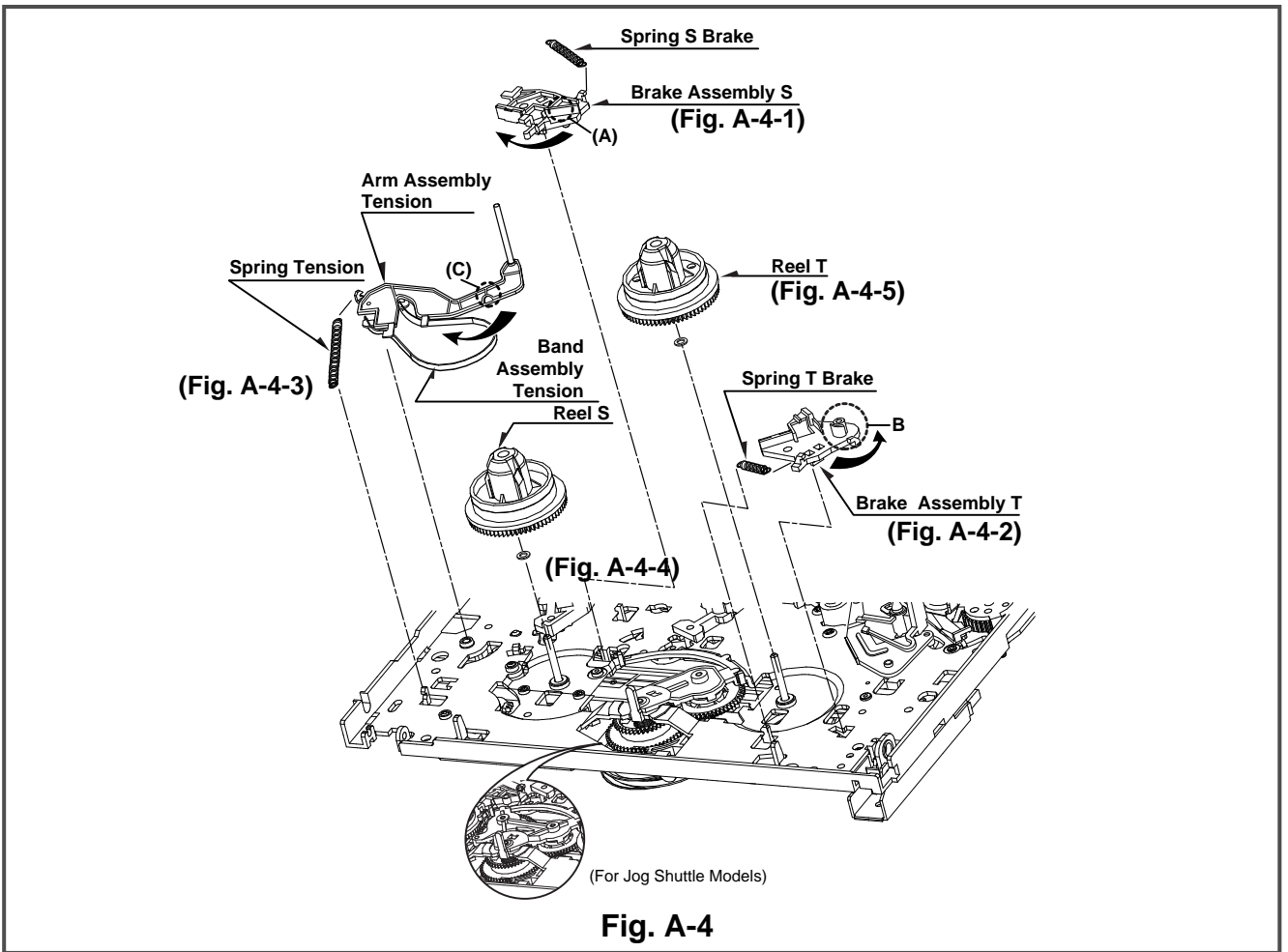
9. Head F/E (Fig. A-3-2)

- 1) Unhook the two Hooks (H1) on the back side of the Chassis and lift up the Head F/E.

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

- 1) Remove the Screw (S5) and lift up the Base Assembly A/C Head.

DECK MECHANISM DISASSEMBLY



11. Brake Assembly S (Fig. A-4-1)

- 1) Remove the Spring S Brake.
- 2) Hold the (A) part shown above Fig. A-4-1 and turn to the clockwise direction, and then lift up the Brake Assembly S.

NOTE

- (1) When reassembling, be careful not to change the Spring with below No.12.(Refer to Fig. B-2).




12. Brake Assembly T (Fig. A-4-2)

- 1) Remove the Spring T Brake.
- 2) Hold the (B) part shown above Fig. A-4-2 and turn to the counterclockwise direction, and then lift up the Brake Assembly T.

NOTE

- (1) When reassembling, be careful not to change the Spring with above No.11.(Refer to Fig. B-2).

(Difference for Springs) (Fig. B-2)

	Spring T Brake Color (Black)
	Spring S Brake
	Spring Tension

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

- 1) Remove the Spring Tension.
- 2) Hold the (C) part shown above Fig. A-4-3 and turn to the clockwise direction, and then lift up the Arm Assembly Tension.

NOTE

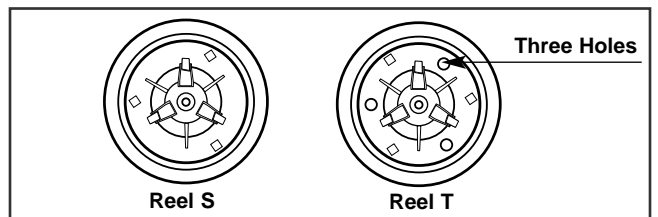
- (1) When reassembling, be careful not to change the Spring with above No.11,12.(Refer to Fig. B-2).

14. Reel S (Fig. A-4-4) & Reel T (Fig. A-4-5)

- 1) Lift up the Reel S and Reel T.

NOTE

- (1) When reassembling, be careful not to change the Reel S and Reel T each other.



- (2) Confirm two Slide Washers under the Reel S and Reel T.

DECK MECHANISM DISASSEMBLY

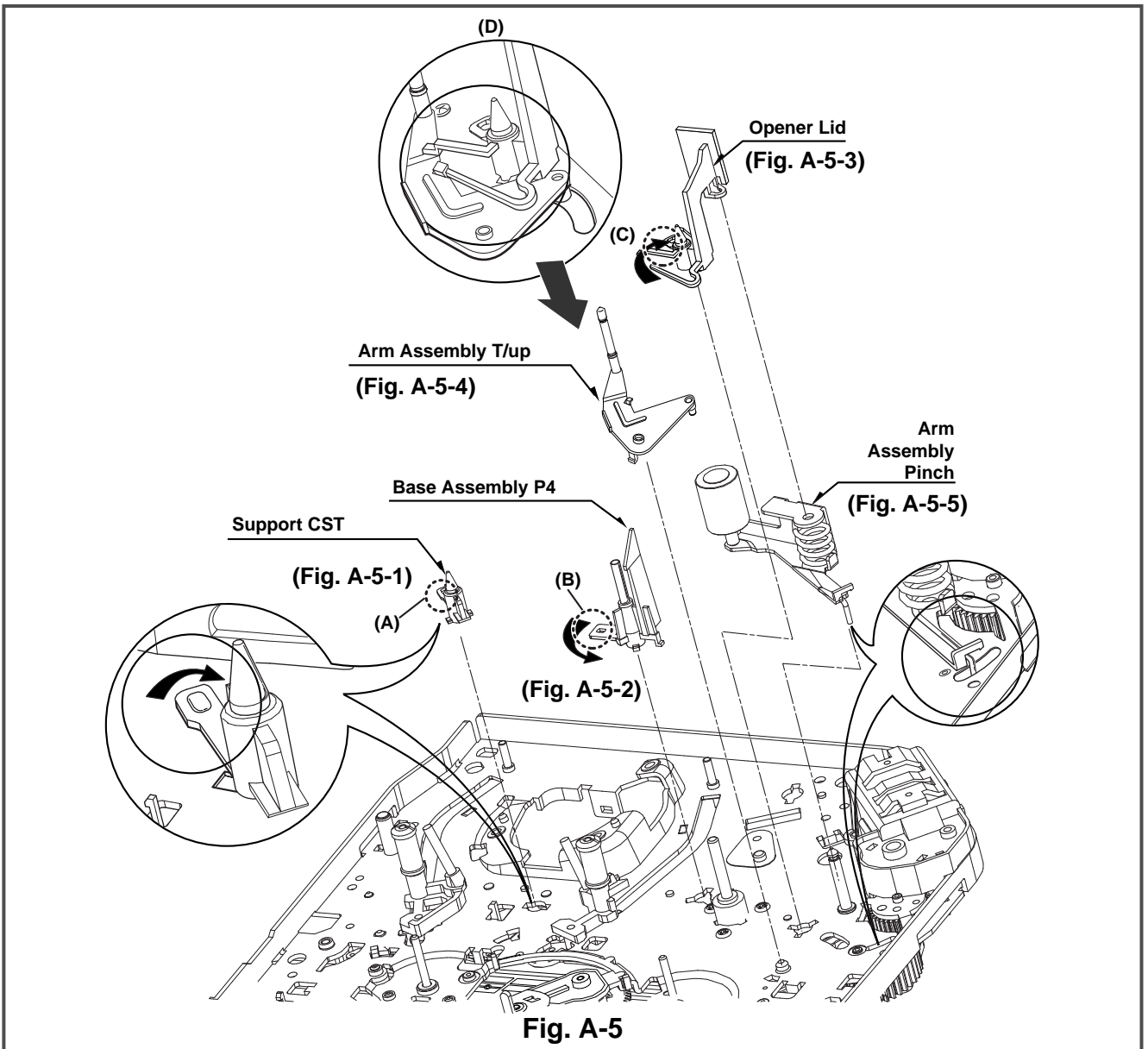


Fig. A-5

15. Support CST (Fig. A-5-1)

- 1) Break away the (A) part shown above Fig. A-5-1 from the Embossing of the Chassis in the clockwise direction, and lift up the Support CST.

16. Base Assembly P4 (Fig. A-5-2)

- 1) Break away the (B) part shown above Fig. A-5-2 from the Embossing of the Chassis in the counterclockwise direction and lift up the Base Assembly P4.

17. Opener Lid (Fig. A-5-3)

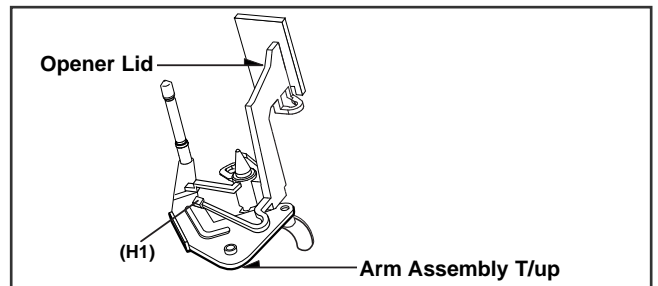
- 1) Break away the (C) Part of the Opener Lid from the Embossing of the Chassis in the Clockwise direction and lift up the Opener Lid.

18. Arm Assembly T/up (Fig. A-5-4)

- 1) Just lift up the Arm Assembly T/UP.

NOTE

- (1) When reassembling, confirm the opener lid is placed on the Hook(H1) of the Arm Assembly T/UP as below figure.



19. Arm Assembly Pinch (Fig. A-5-5)

- 1) Lift up the Arm Assembly Pinch.

DECK MECHANISM DISASSEMBLY

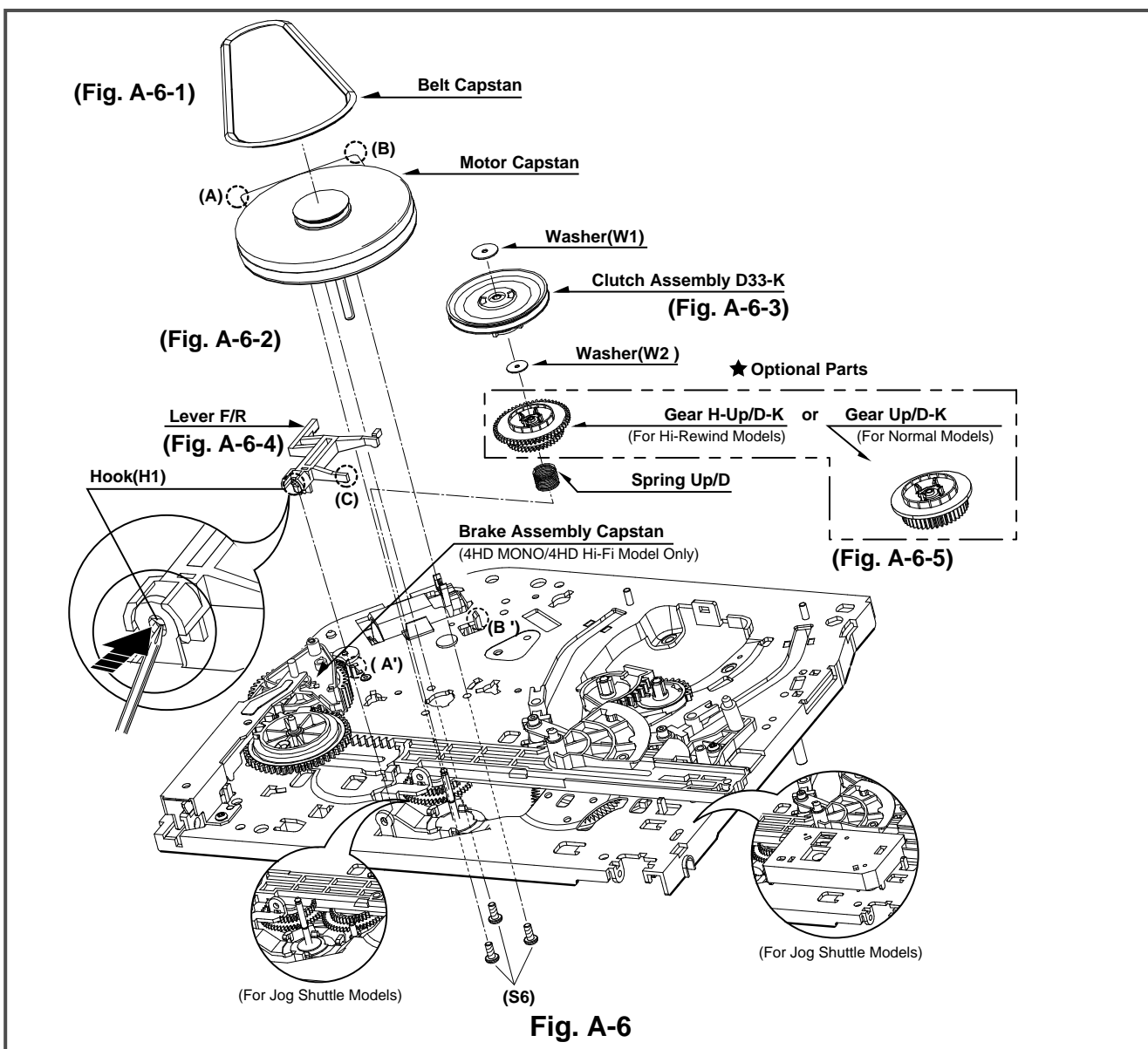


Fig. A-6

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

- 1) Remove the Belt Capstan.
- 2) Remove three Screws(S6) on the back side of the Chassis and lift up the Motor Capstan.

NOTE

- (1) When reassembling, Confirm the (A), (B) parts of Motor Capstan is located to the (A'), (B') of the Chassis.

21. Clutch Assembly D33-K (Fig. A-6-3)

- 1) Remove the Washer(W1) and lift up the Clutch Assembly D33-K.

22. Lever F/R (Fig. A-6-4)

- 1) Unhook the (H1) shown above Fig. A-6-4 and lift up the Lever F/R.

NOTE

- (1) When reassembling, move the (C) part of the Lever F/R up and down, then confirm if it is returned to original position.

23. Gear H-Up/D-K or Gear Up/D-K (Fig. A-6-5)

- 1) Remove the Washer(W2) and lift up the Gear H-up/D-K.
- 2) Remove the Spring Up/D.

NOTE

- (1) Gear H-Up/D-K is for Hi-Rewind Models.
- (2) Gear Up/D-K is for Normal Models except Hi-Rewind Models.

DECK MECHANISM DISASSEMBLY

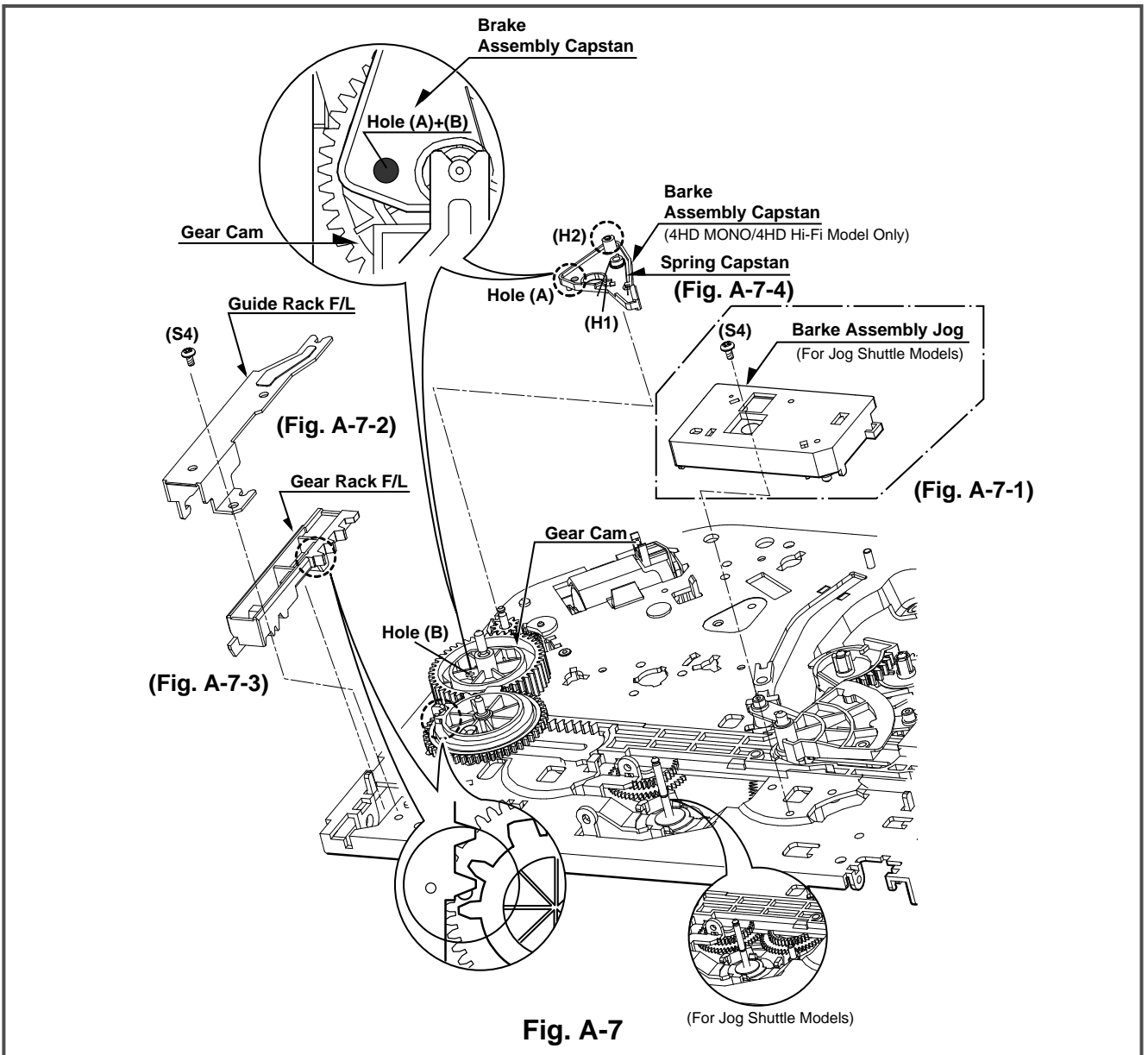


Fig. A-7

24. Bracket Assembly Jog (Fig. A-7-1) (Jog shuttle model option)

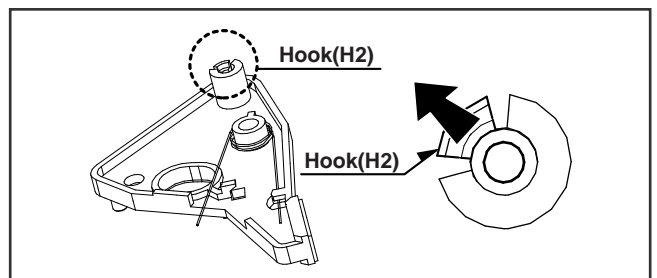
- 1) Remove the Screw(S4) and lift up the Bracket Assembly Jog.

25. Guide Rack F/L (Fig. A-7-2)/ Gear Rack F/L (Fig. A-7-3)

- 1) Remove the Screw(S4) and lift up the Guide Rack F/L.
- 2) Lift up the Gear Rack F/L.

26. Brake Assembly Capstan (Fig. A-7-4) (4HD model option)

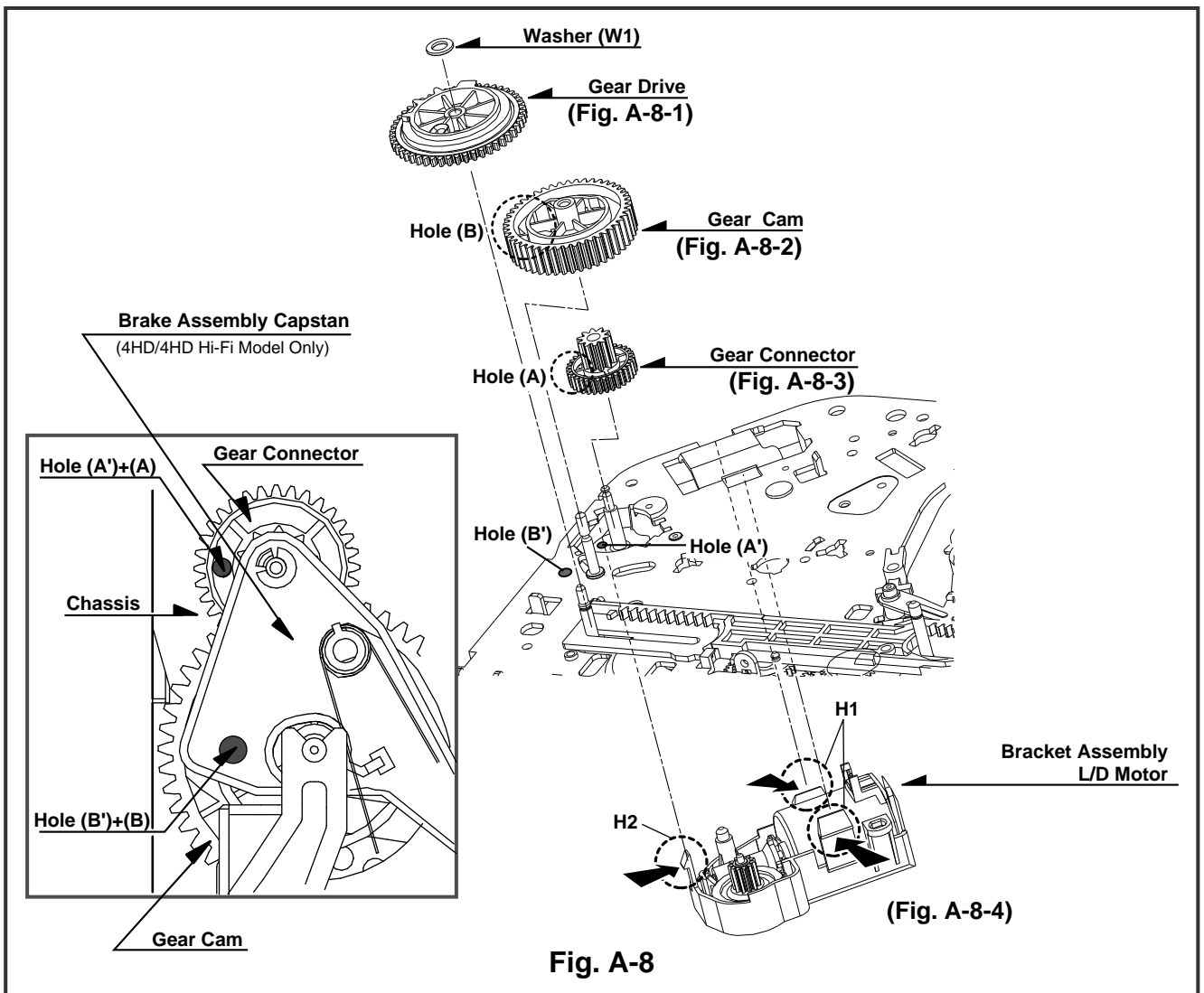
- 1) Hook the Spring Capstan on the Hook(H1).
- 2) Unhook the Hook(H2) and lift up the Brake Assembly Capstan.(Refer to Fig. to the right)



NOTE

- (1) When reassembling, confirm that the Hole(A) of the Brake Assembly Capstan is aligned to the Hole(B) of the Gear Cam.
(Refer to above Fig. A-7-4).

DECK MECHANISM DISASSEMBLY



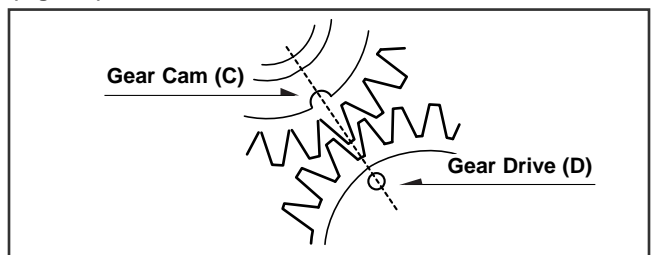
27. Gear Drive (Fig. A-8-1)/ Gear Cam (Fig. A-8-2)/ Gear Connector (Fig. A-8-3)

- 1) Remove the Washer(W1) and lift up the Gear Drive.
- 2) Lift up the Gear Cam.
- 3) Lift up the Gear Connector.

NOTE

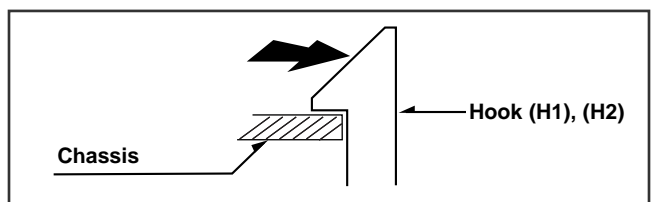
- (1) When reassembling, confirm that the Hole (A) of the Gear Connector is aligned to the Hole (A') of the Chassis (Fig. A-8-3).
- (2) When reassembling, confirm that the Hole (B) of the Gear Cam is aligned to the Hole (B') of the Chassis (Fig. A-8-2).
- (3) When reassembling, confirm that the (C) part of the Gear Cam is aligned to the (D) part of the Gear Drive as shown Fig. B-3

(Fig. B-3)



28. Bracket Assembly L/D Motor (Fig. A-8-4)

- 1) Unhook the three Hooks(H1),(H2) and push down the Bracket Assembly L/D Motor.



DECK MECHANISM DISASSEMBLY

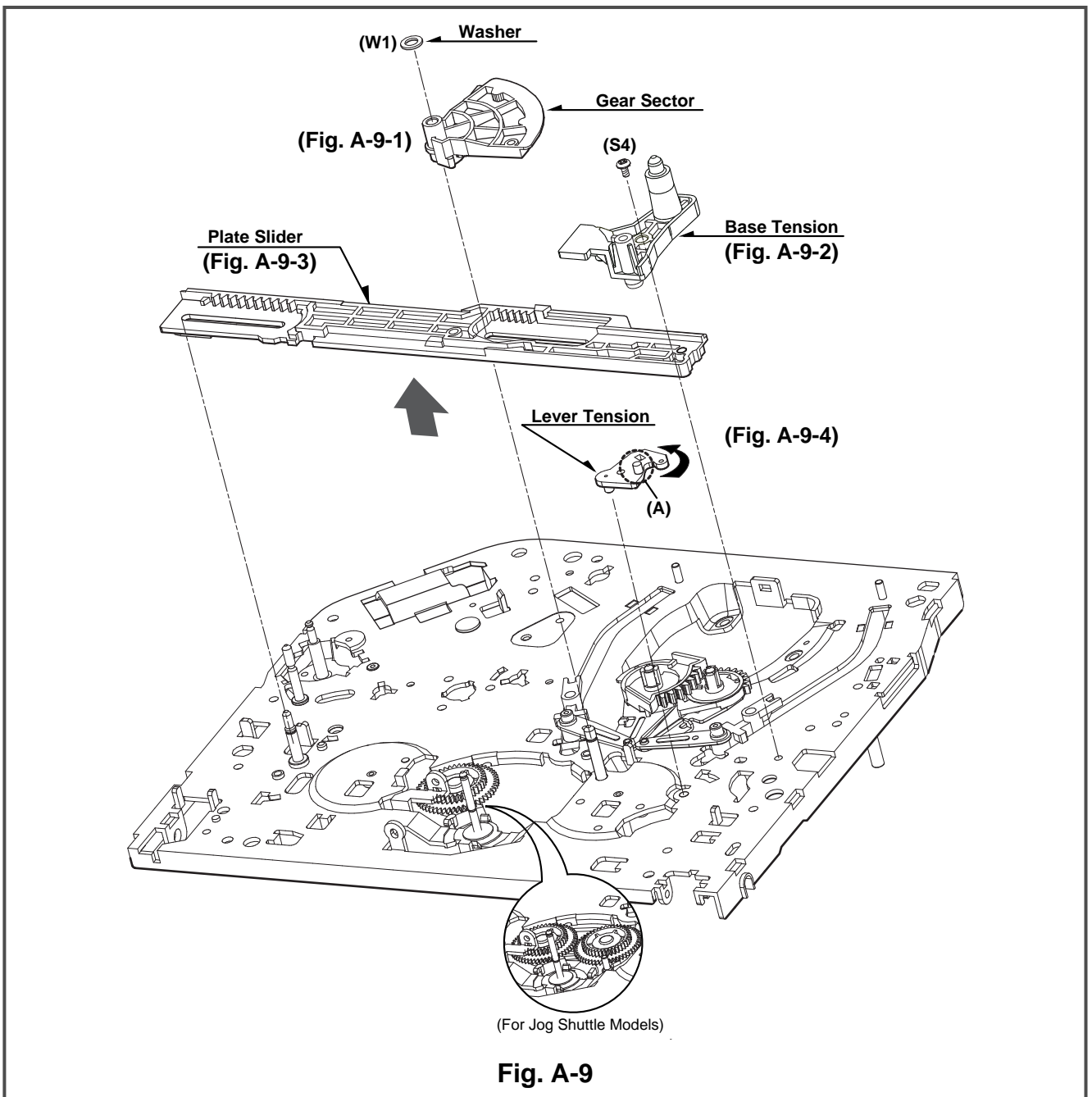


Fig. A-9

29. Gear Sector (Fig. A-9-1)

- 1) Remove the Washer(W1) and lift up the Gear Sector.

30. Base Tension (Fig. A-9-2)/

Plate Slider (Fig. A-9-3)/

Lever Tension (Fig. A-9-4)

- 1) Remove the Screw(S4) and lift up the Base Tension.
- 2) Lift up the Plate Slider.
- 3) Hold the (A) Part of the Lever Tension and turn to the counterclockwise direction, and then lift up the Lever Tension.

NOTE

- (1) When reassembling, turn the Lever Tension to the clockwise direction in maximum.
- (2) Push the plate slide right side to be guided by the shaft.

DECK MECHANISM DISASSEMBLY

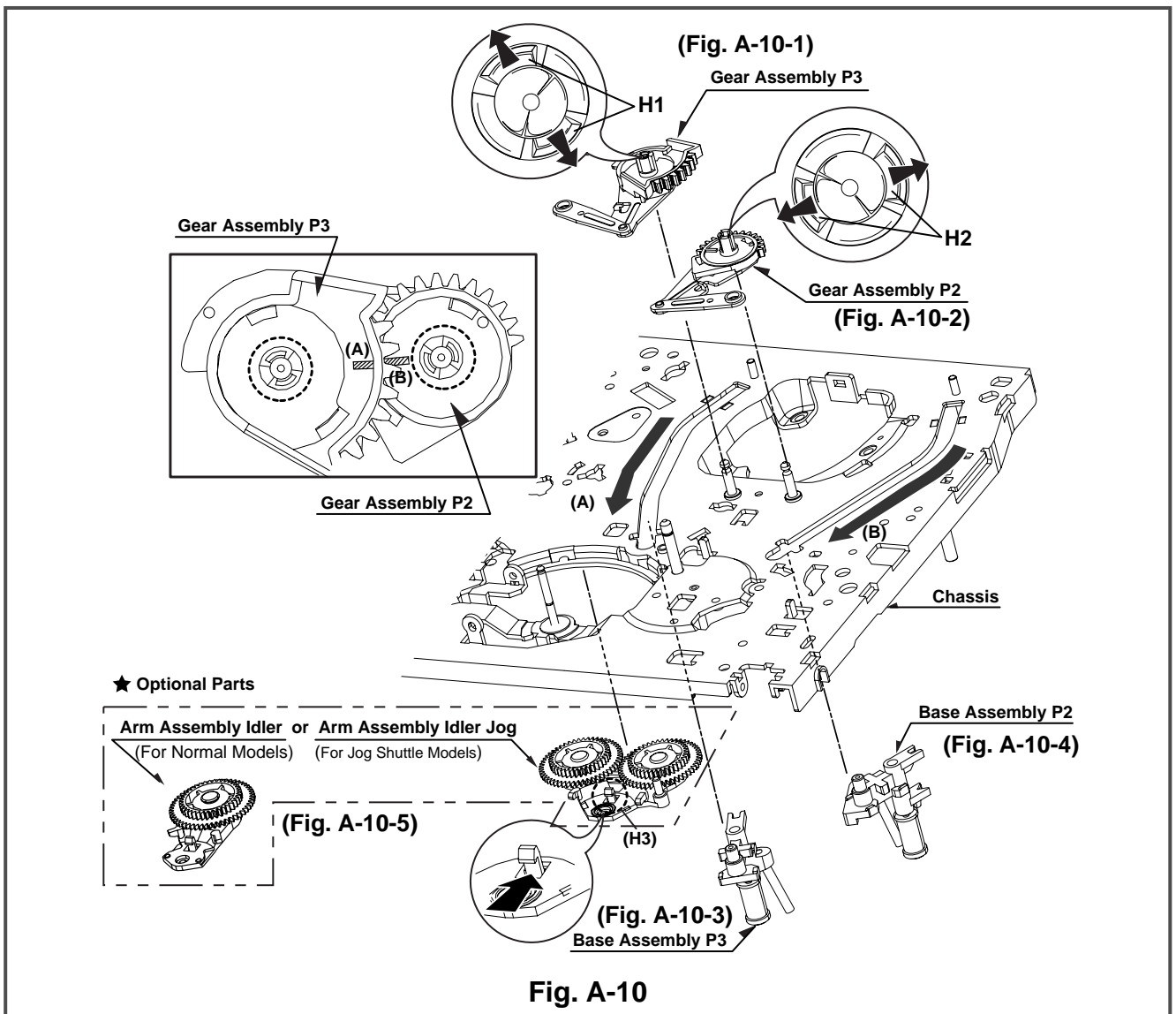


Fig. A-10

31. Gear Assembly P3 (Fig. A-10-1)/ Gear Assembly P2 (Fig. A-10-2)

- 1) Unhook the two Hooks(H1) and lift up the Gear Assembly P3.
- 2) Unhook the two Hooks(H2) and lift up the Gear Assembly P2.

32. Base Assembly P3 (Fig. A-10-3)/ Base Assembly P2 (Fig. A-10-4)

- 1) Move the Base Assembly P3 in the direction of the arrow of the Chassis Hole(A) and push down the Base Assembly P3.
- 2) Move the Base Assembly P2 in the direction of the arrow of the Chassis Hole(B) and push down the Base Assembly P2.

33. Arm Assembly Idler or Arm Assembly Idler Jog(Fig. A-10-5)

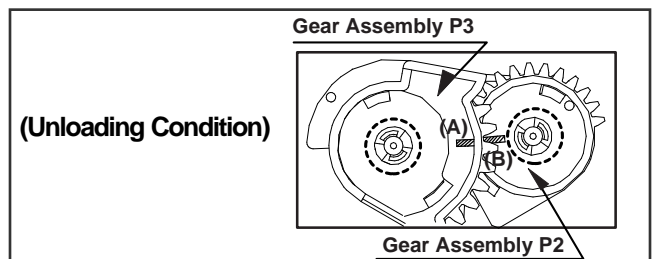
- 1) Unhook the Hook(H3) and push down the Arm Assembly Idler Jog.

NOTE

- 1) Arm Assembly Idler is for Normal Models.
- 2) Arm Assembly Idler Jog is for Jog Shuttle Models.

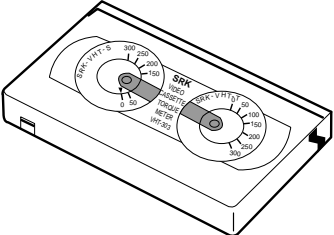
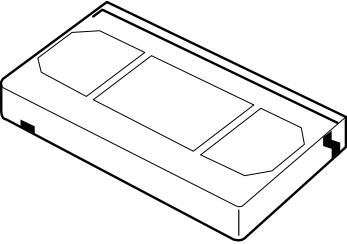
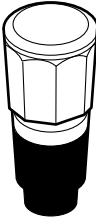
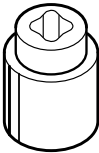
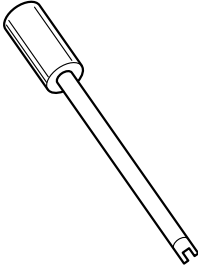
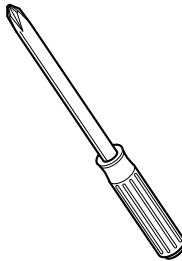
NOTE

- 1) When reassembling, confirm that the (A) Part of the Gear Assembly P3 is aligned to the (B) Part of the Gear Assembly P2 as shown below.



DECK MECHANISM DISASSEMBLY

• Tools and Fixfures for Service

<p>1. Cassette Torque meter SRK-VHT-303(Not SVC part) Parts No: D00-D006</p> 	<p>2. Alignment tape Parts No NTSC: DTN-001 PAL:DTN-0002</p> 	<p>3. Torque gauge 600g.Cm ATG Parts No:D00-D002</p> 
<p>4. Torque gauge adaptor Parts No:D09-R001</p> 	<p>5. Post height adjusting driver Parts No:DTL-0005</p> 	<p>6. + Type driver (ø 5)</p> 

DECK MECHANISM ADJUSTMENT (FOR NORMAL MODELS)

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
<p>1) Turn the Power S/W on and eject the Cassette by pressing the Eject Button.</p> <p>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.</p> <p>3) IF not, rotate the Shaft of the Loading Motor to either Clockwise or Counterclockwise until the Alignment is as below Fig. C-2.</p> <p>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).</p> <p>5) Confirm if the Mode S/W on the Main P.C.Board is aligned as below Fig. C-1(B).</p> <p>6) Remount the Deck Mechanism on the Main P.C.Board and check each operation.</p>		

CHECK DIAGRAM

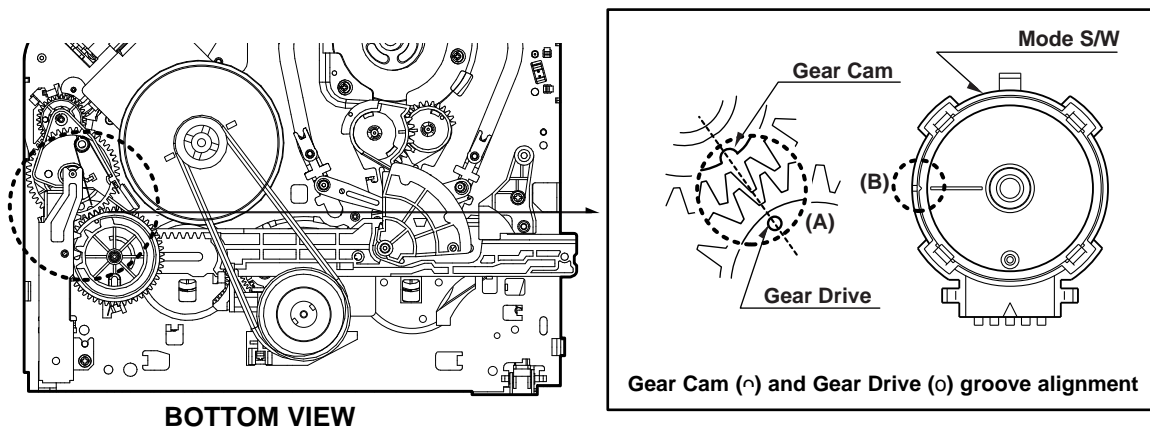


Fig. C-1

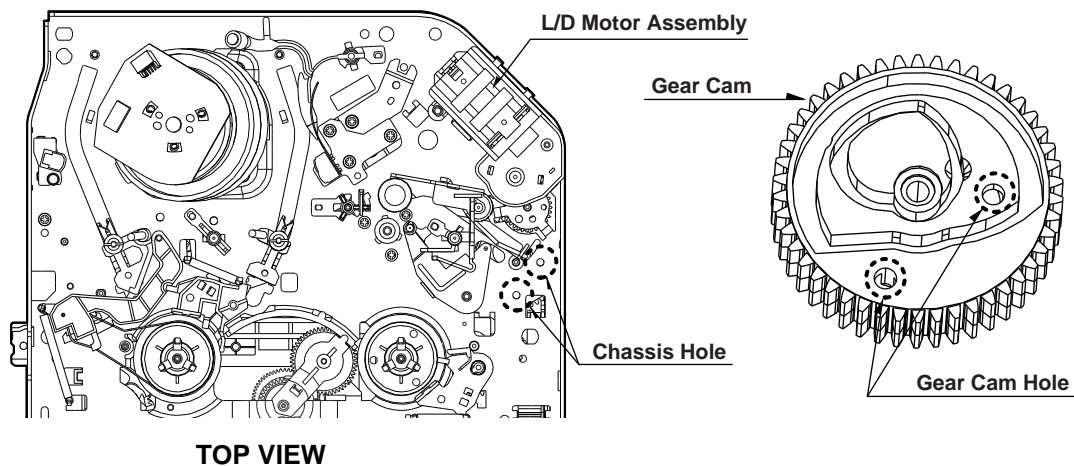


Fig. C-2

DECK MECHANISM ADJUSTMENT (FOR JOG SHUTTLE MODELS)

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

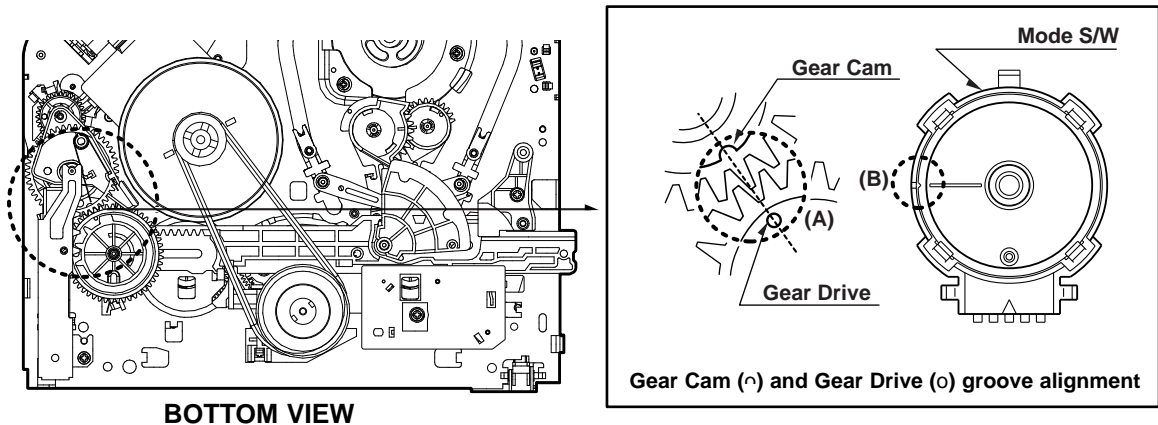


Fig. C-1

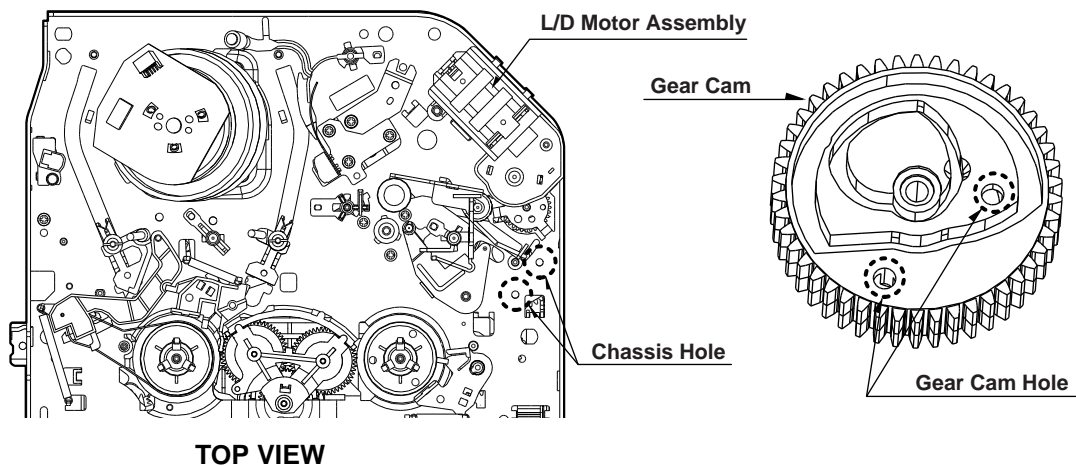


Fig. C-2

DECK MECHANISM ADJUSTMENT

2. Preparation for Adjustment (To set the Deck Mechanism to 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 (L),(R) 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 Bracket Side(L) and Bracket Assembly Door 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 SRK-VHT-303 	<ul style="list-style-type: none"> • 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	70~120g/cm
Review Torque	Review	Cassette Torque Meter	Supply Reel	130~210g/m

NOTE:

The Values are measured by using a Torque Gauge and Torque Gauge Adaptor with the Torque Gauge affixed.

- Cassette Torque Meter (SRK-VHT-303)

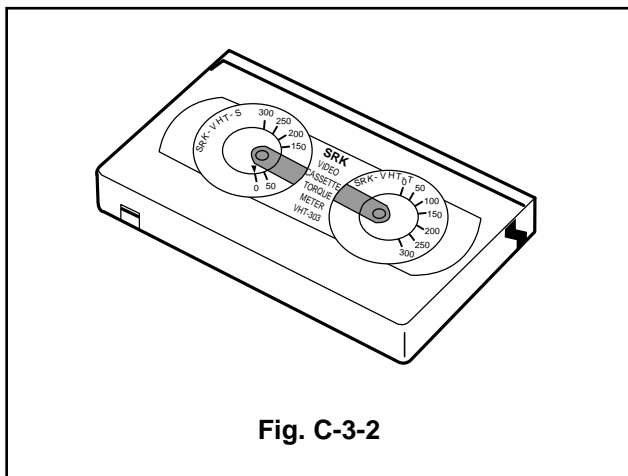


Fig. C-3-2

NOTE:

The Torque reading to measure occurs when the Tape abruptly changes direction from Fast Forward of Rewind Mode, when quick bracking is applied to both Reels.

- Torque Gauge (600g.cm ATG)

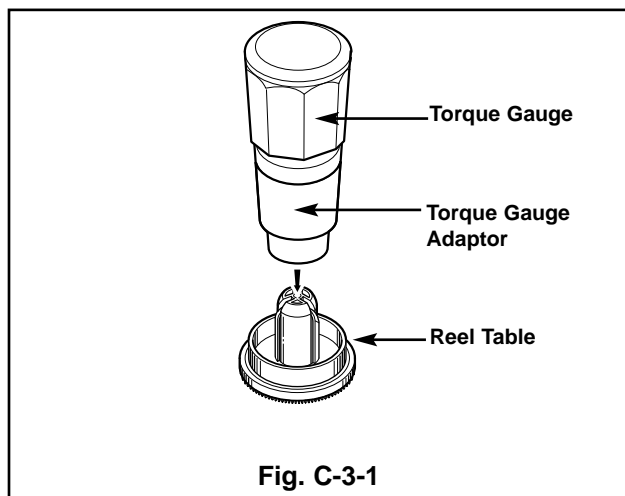


Fig. C-3-1

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
<ul style="list-style-type: none"> Post Height Adjusting Driver 	<ul style="list-style-type: none"> Play or Review Mode 	<ul style="list-style-type: none"> 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

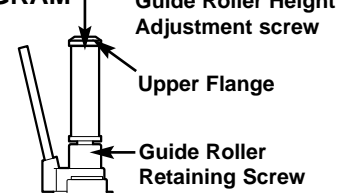


Fig. C-4-1

4-2. Precise Adjustment

Test Equipment/Fixture	Test Equipment Connection Points	Test Conditions VCR(VCP) State	Adjustment Point
<ul style="list-style-type: none"> Oscilloscope Alignment Tape Post Height Adjusting Driver 	<ul style="list-style-type: none"> CH-1:PB RF Envelope CH-2:NTSC: SW 30Hz PAL: SW 25Hz Head Switching Output Point RF Envelope Output Point 	<ul style="list-style-type: none"> Play an Alignment Tape 	<ul style="list-style-type: none"> Guide Roller Height Adjustment Screws

Adjustment Procedure

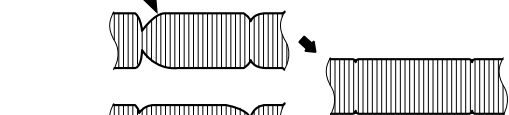
- 1) Play an Alignment Tape after connecting the Probe of the Oscilloscope to the RF Envelope Output Test Point and Head Switching Output Test Point.
- 2) Tracking Control(in PB Mode) : Center Position(When this Adjustment is performed after the Drum Assembly has been replaced, set the Tracking Control 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

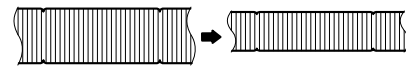
P2 POST ADJUSTMENT



P3 POST ADJUSTMENT

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

Fig. C-4-2

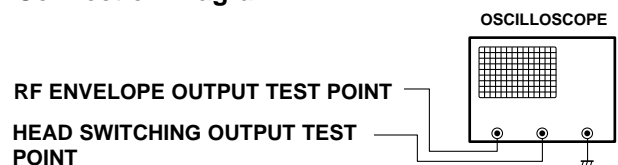


Tracking control at center

Turn(Move) the tracking control to both directions

Fig. C-4-3

Connection Diagram



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 in both the 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.

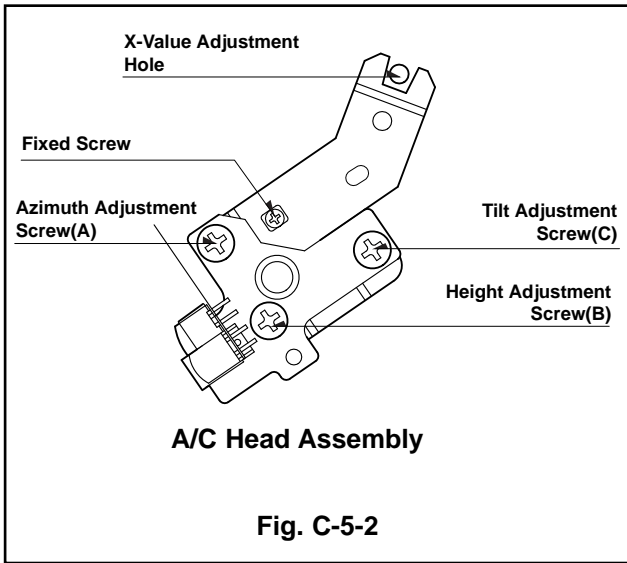
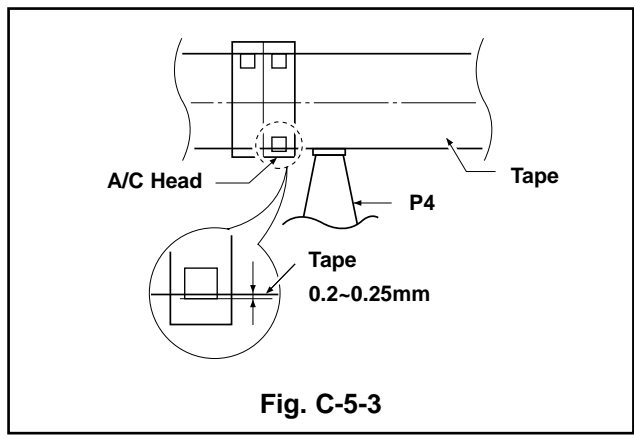
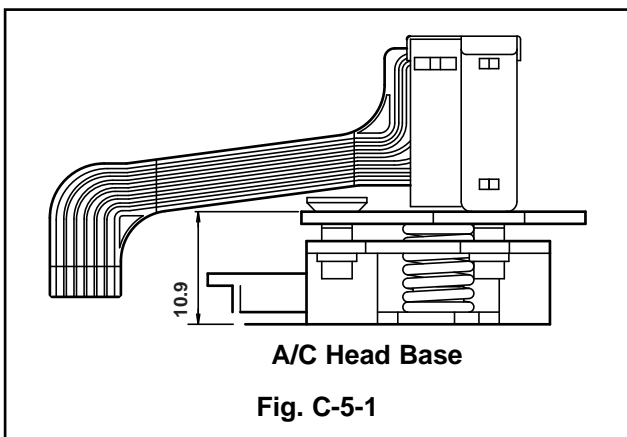
Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Adjustment Point
<ul style="list-style-type: none"> • Blank Tape • Screw Driver(+) Type 5mm 	<ul style="list-style-type: none"> • Play the blank tape 	<ul style="list-style-type: none"> • Tilt Adjustment Screw(C) • Height Adjustment Screw(B)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

Adjustment Procedure/Diagrams

- Initially adjust the Base Assembly A/C Head as shown Fig. C-5-1 by using the Height Adjustment Screw(B).
- Play a Blank Tape and observe if the Tape passes accurately over the A/C Head without Tape Curling or Folding.
- If Folding or Curling is occurred then adjust the Tilt Adjustment Screw(C) while the Tape is running to resemble Fig. C-5-3.
- 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)

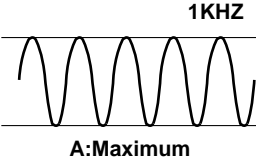
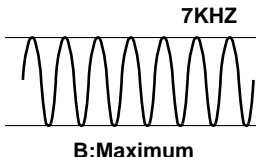
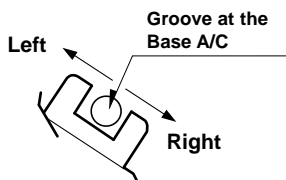
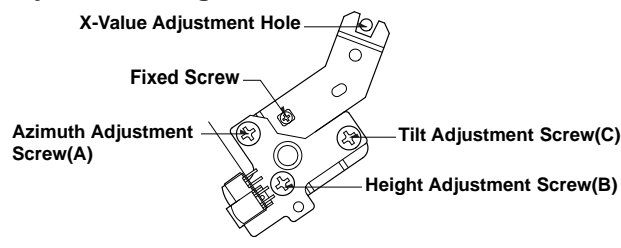
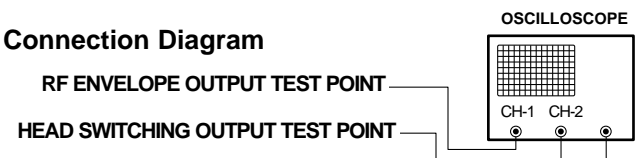
Test Equipment/ Fixture	Connection Point	Test Conditions (Mechanism Condition)	Adjustment Point
<ul style="list-style-type: none"> • Oscilloscope • Alignment Tape(SP) • Screw Driver(+) Type 5mm 	<ul style="list-style-type: none"> • Audio output jack 	<ul style="list-style-type: none"> • Play an Alignment 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. 			
		 <p>1KHZ A:Maximum</p>	 <p>7KHZ B:Maximum</p>

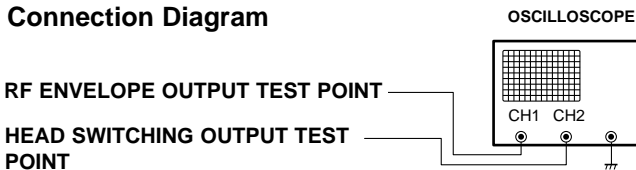
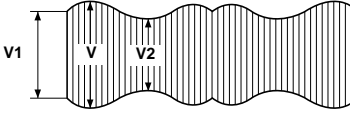
Fig. C-5-4

6. X-Value Adjustment

Purpose: To obtain compatibility with 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 31um Head to be centrally located over the 58um 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 MAX ± 0.7 V2/V MAX ± 0.8 RF ENVELOPE OUTPUT	
Fig. C-7			

8. Check the Tape Travel after Reassembling Deck Assembly.

8-1. Check 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 fast forward mode (FF) 2) REV is the rewind mode (REW) 3) Referenced to the Play mode	

8-2. Check 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 cassette. 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 (FOR NORMAL MODELS)

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	Replacement
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 D33K Torque reduced	o
	Cleaning Drum and transport system	Fig. C-9-3

F/E Head

Video Head

A/C Head

Pinch Roller

Belt Capstan

Clutch Assembly D33K

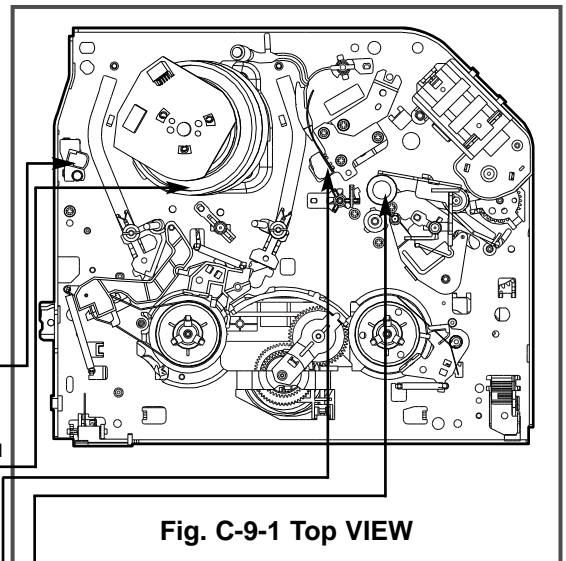


Fig. C-9-1 Top VIEW

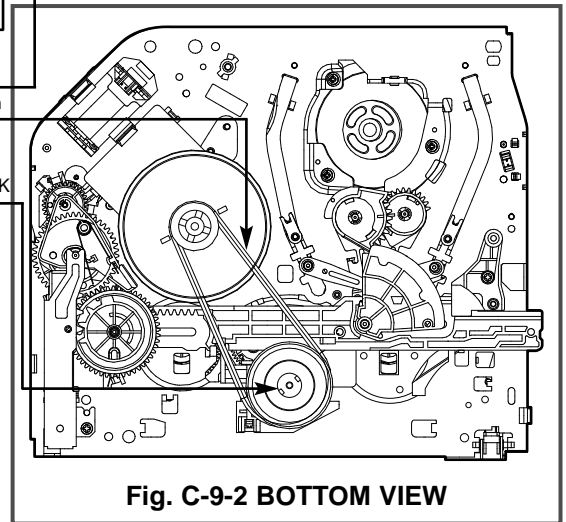


Fig. C-9-2 BOTTOM VIEW

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 See the Greasing (Page 4-22) for the sections to be lubricated and greased.

* No. (1)~(13) Indicates the Tape Path to be traveled from Supply Reel to Take-up Reel.

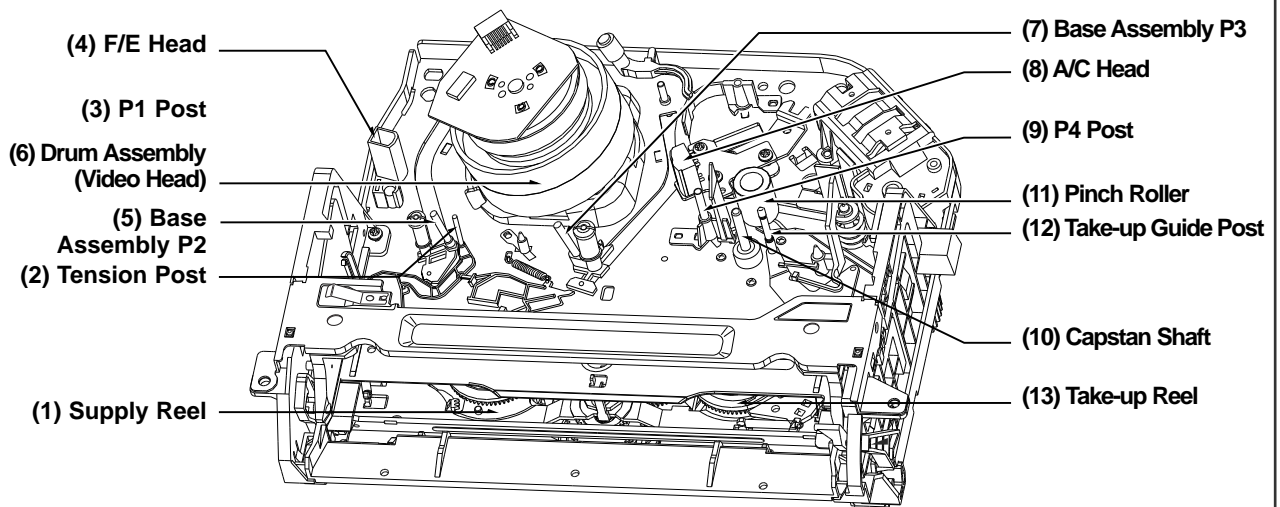


Fig. C-9-3 Tape Transport System

MAINTENANCE/INSPECTION PROCEDURE (FOR JOG SHUTTLE MODELS)

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	Replacement
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 D33K Torque reduced	o
	Cleaning Drum and transport system	Fig. C-9-3

F/E Head

Video Head

A/C Head

Pinch Roller

Belt Capstan

Clutch Assembly D33K

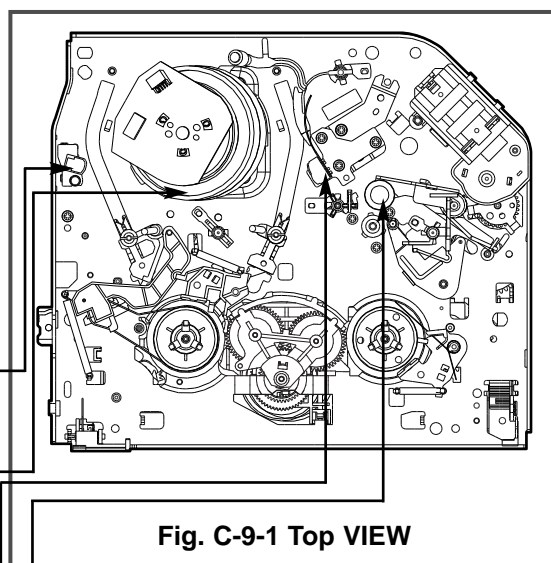


Fig. C-9-1 Top VIEW

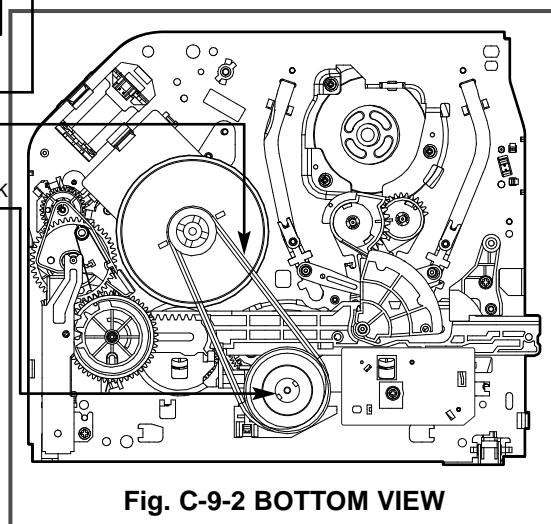


Fig. C-9-2 BOTTOM VIEW

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 See the Greasing (Page 4-22) for the sections to be lubricated and greased.

* No. (1)~(13) Indicates the Tape Path to be traveled from Supply Reel to Take-up Reel.

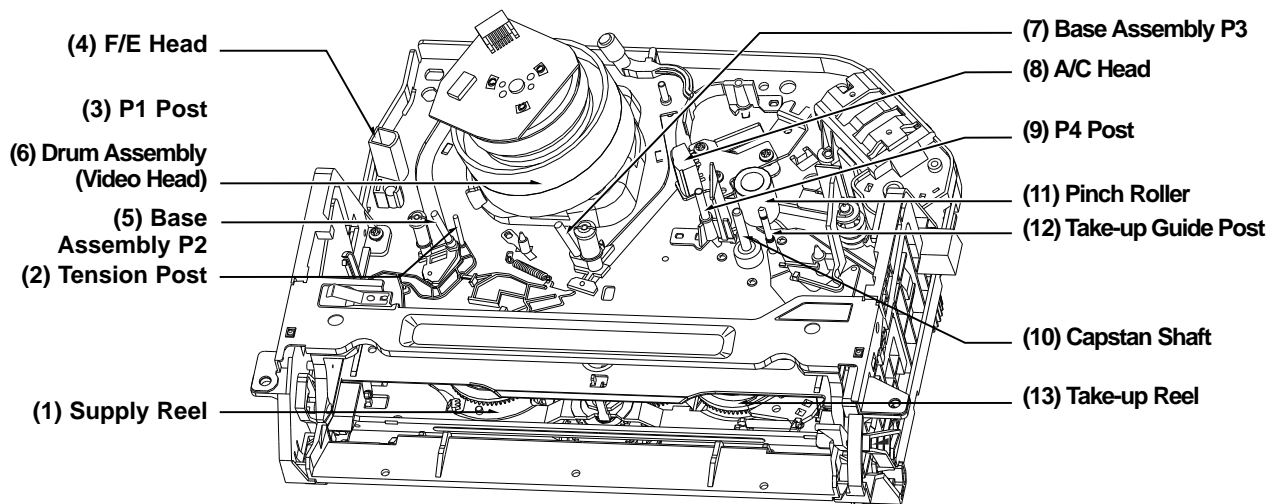


Fig. C-9-3 Tape Transport System

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 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	About 1 year	About 18 months	About 3 years
Average hours used per day	▲	▲	▲
One hour	[Bar chart showing inspection interval]		
Two hours	[Bar chart showing inspection interval]		
Three hours	[Bar chart showing inspection interval]		

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) : Used only for Reel S and Reel T

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 the tip of a screw driver and no that force is that would cause deforming or damage applied to the system.

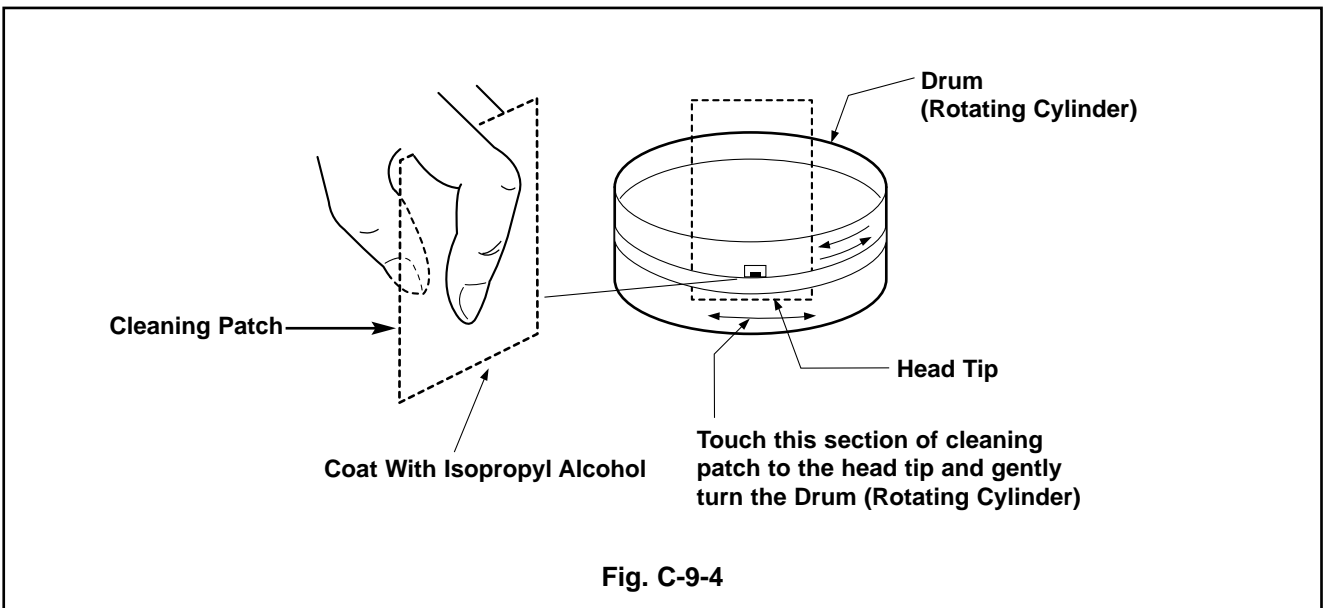


Fig. C-9-4

MAINTENANCE/INSPECTION PROCEDURE

5-2) Greasing

(1) Greasing guidelines

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

NOTE: Greasing Points

1) Loading Path Inside & Top side	6) Shaft
2) Base Tension Boss inside Hole	7) Arm Assembly F/L of Buming Inside Hole
3) Arm Assembly F/L "U" Groove	8) Reel S, T Shaft (G381:Yellow)
4) Arm Take-up Rubbing Section	9) Brake T Groove
5) L/D Motor Worm Wheel Part	

Chassis (Top)

Gear Sector Gear Cam

Gear Assembly Up/D Gear Drive

Bracket Side (L) Bracket Assembly Door

(2) Periodic greasing

Grease specified locations every 5,000 hours.

1) Loading Path Inside & Top side	5) Lever Tension Groove
2) Shaft	6) Clutch Assembly D33 Shaft
3) Gear Rack F/L Moving Section	7) Brake "S" Rubbing Section
4) Shaft	

Chassis (Bottom)

Guide Rack F/L Gear Rack F/L

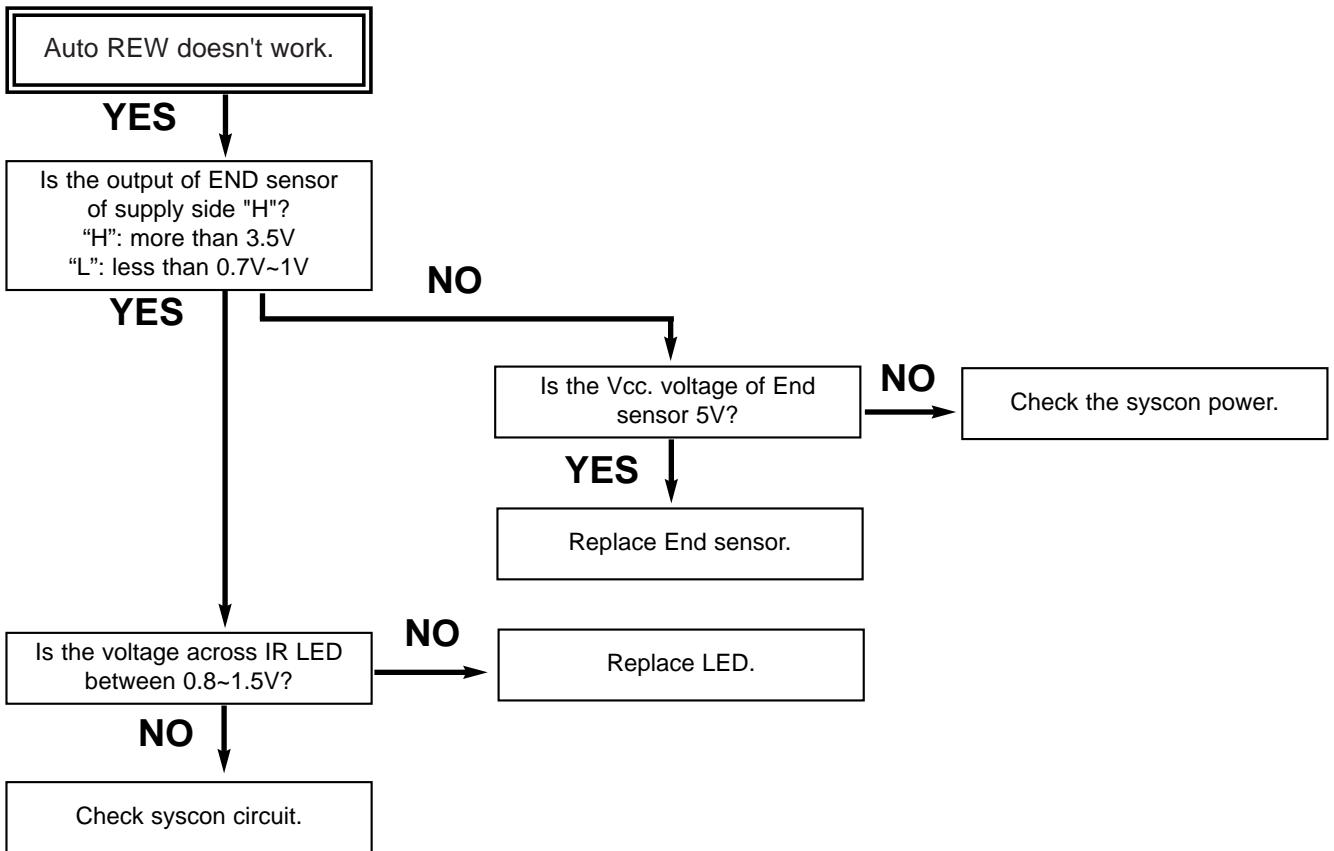
Plate Slider (Top)

Plate Slider (Bottom)

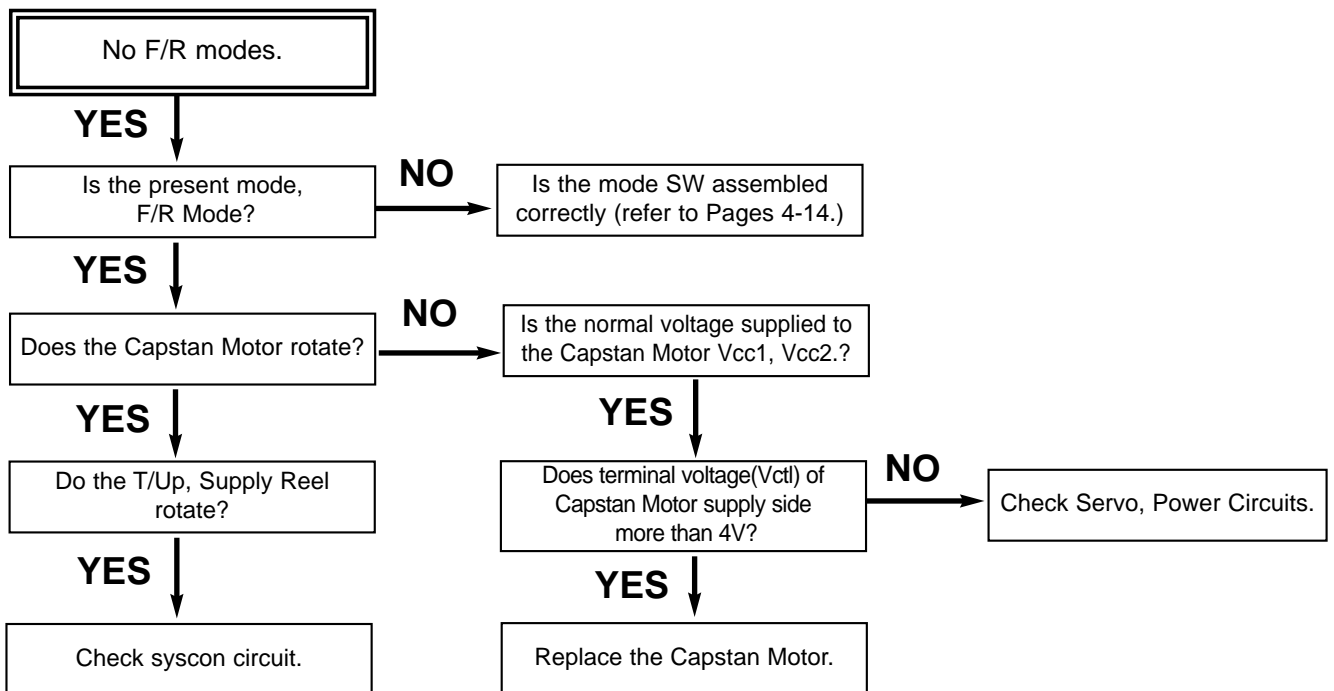
MECHANISM TROUBLESHOOTING GUIDE

1. Deck Mechanism

A.

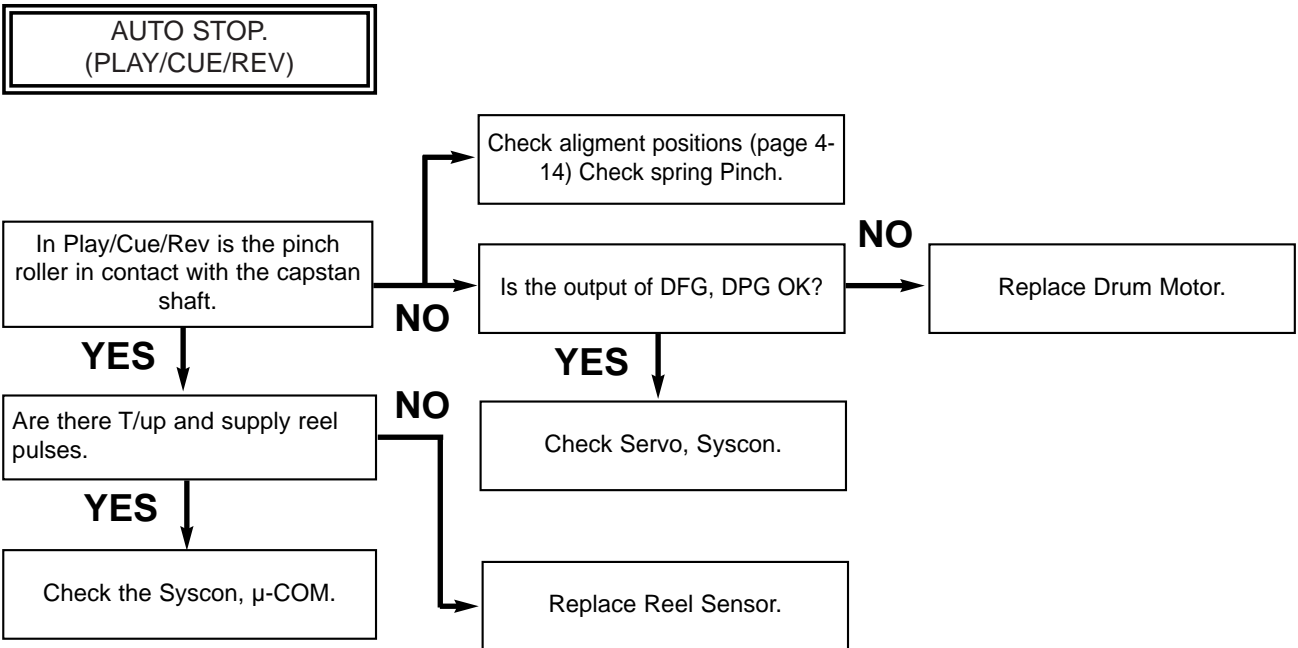


B.

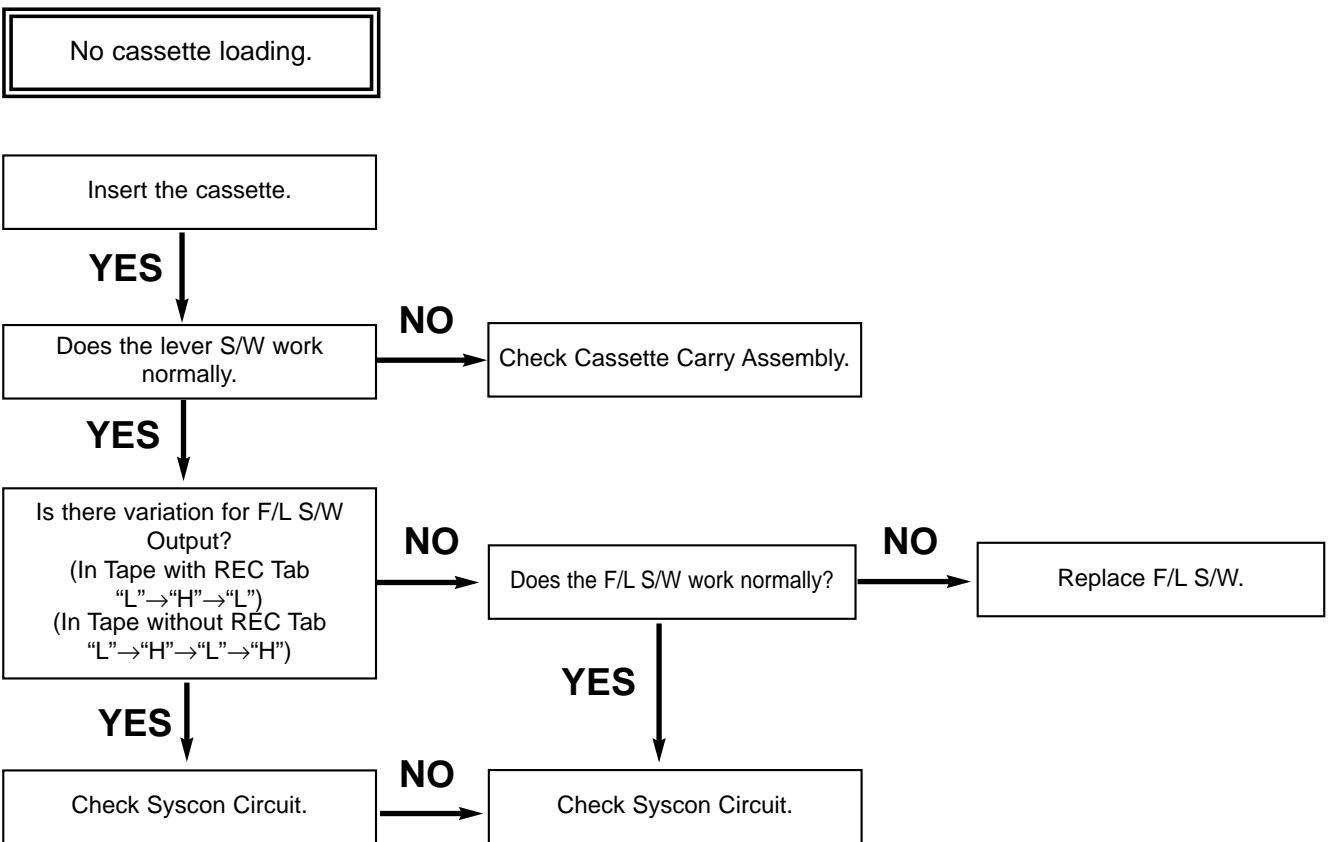


MECHANISM TROUBLESHOOTING GUIDE

C.

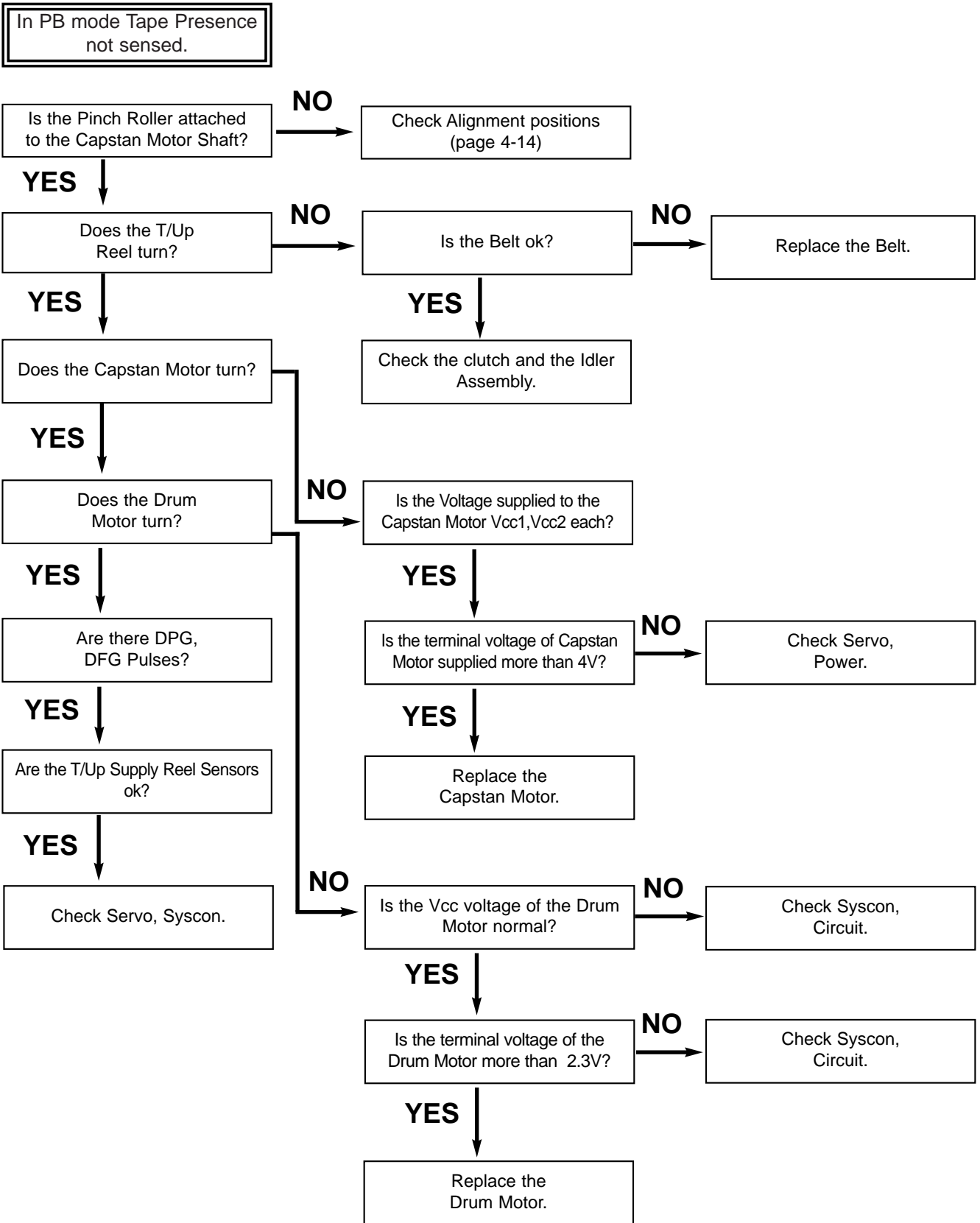


D.



MECHANISM TROUBLESHOOTING GUIDE

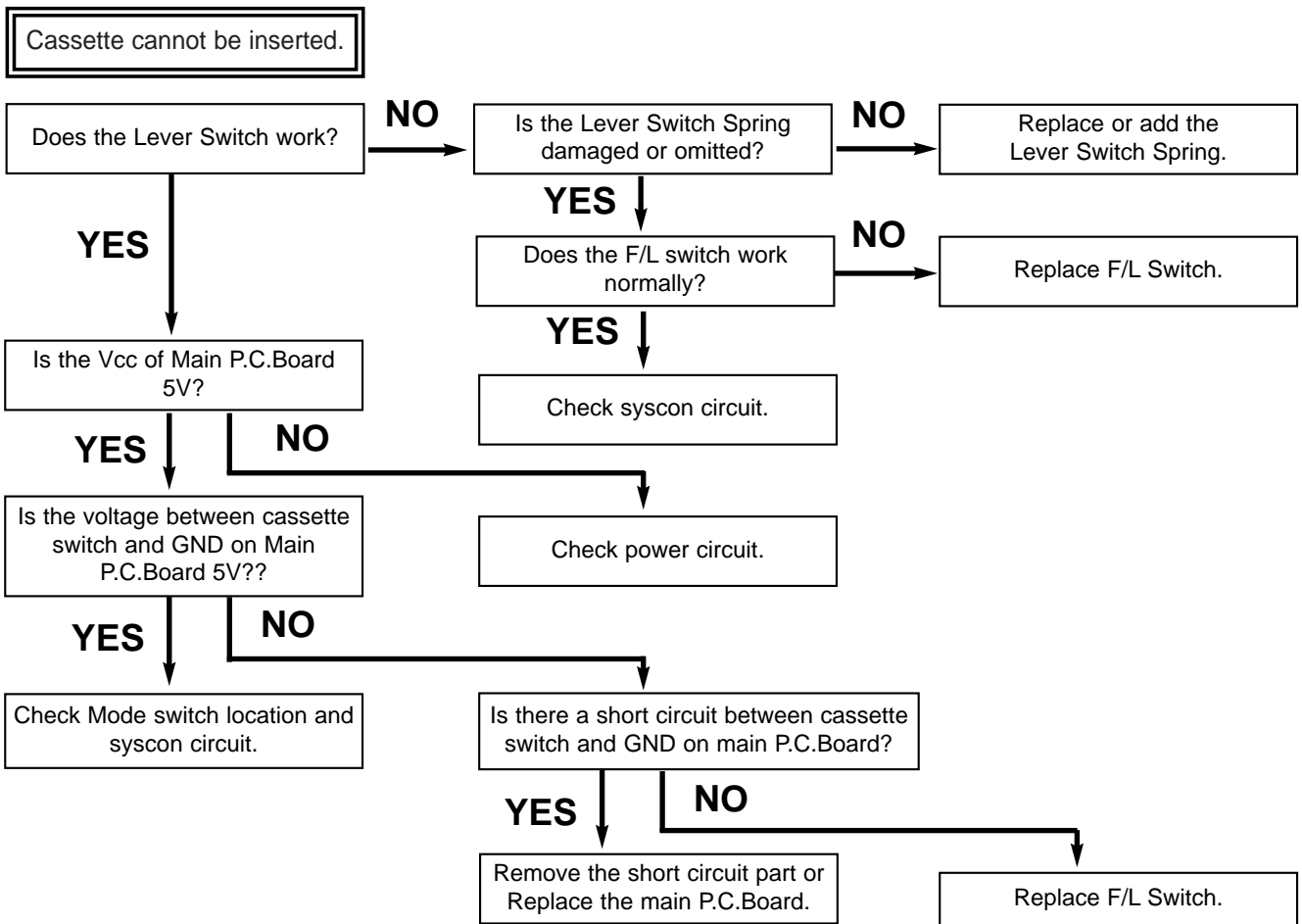
E.



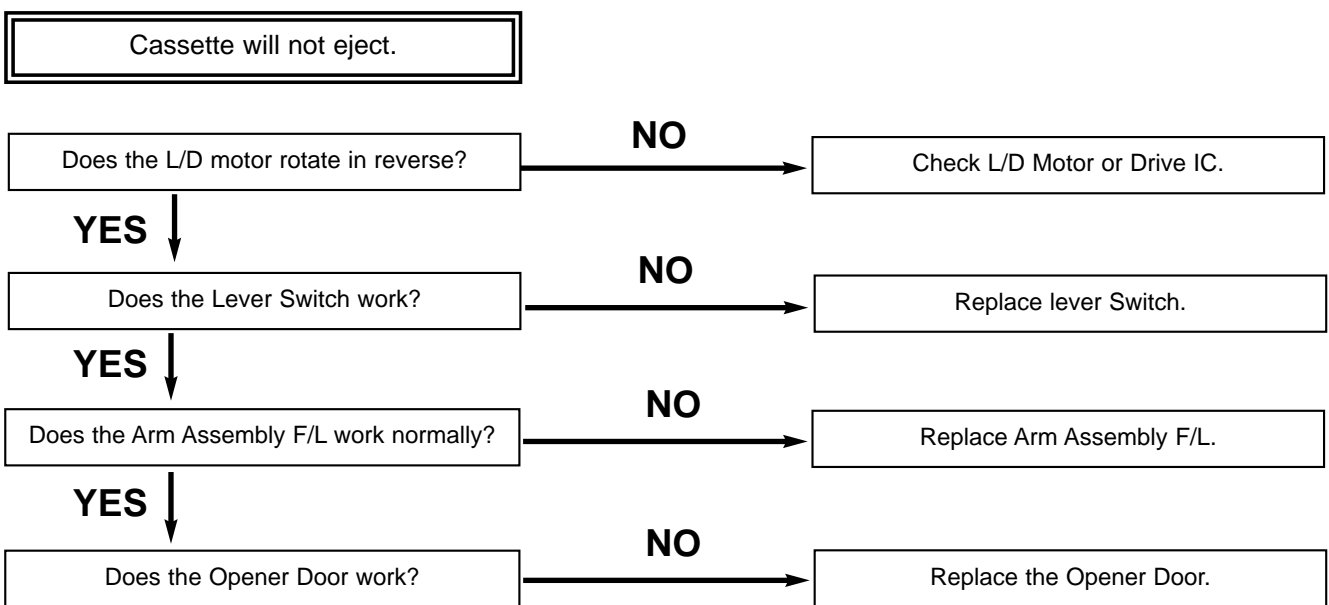
MECHANISM TROUBLESHOOTING GUIDE

2. Front Loading Mechanism

A.

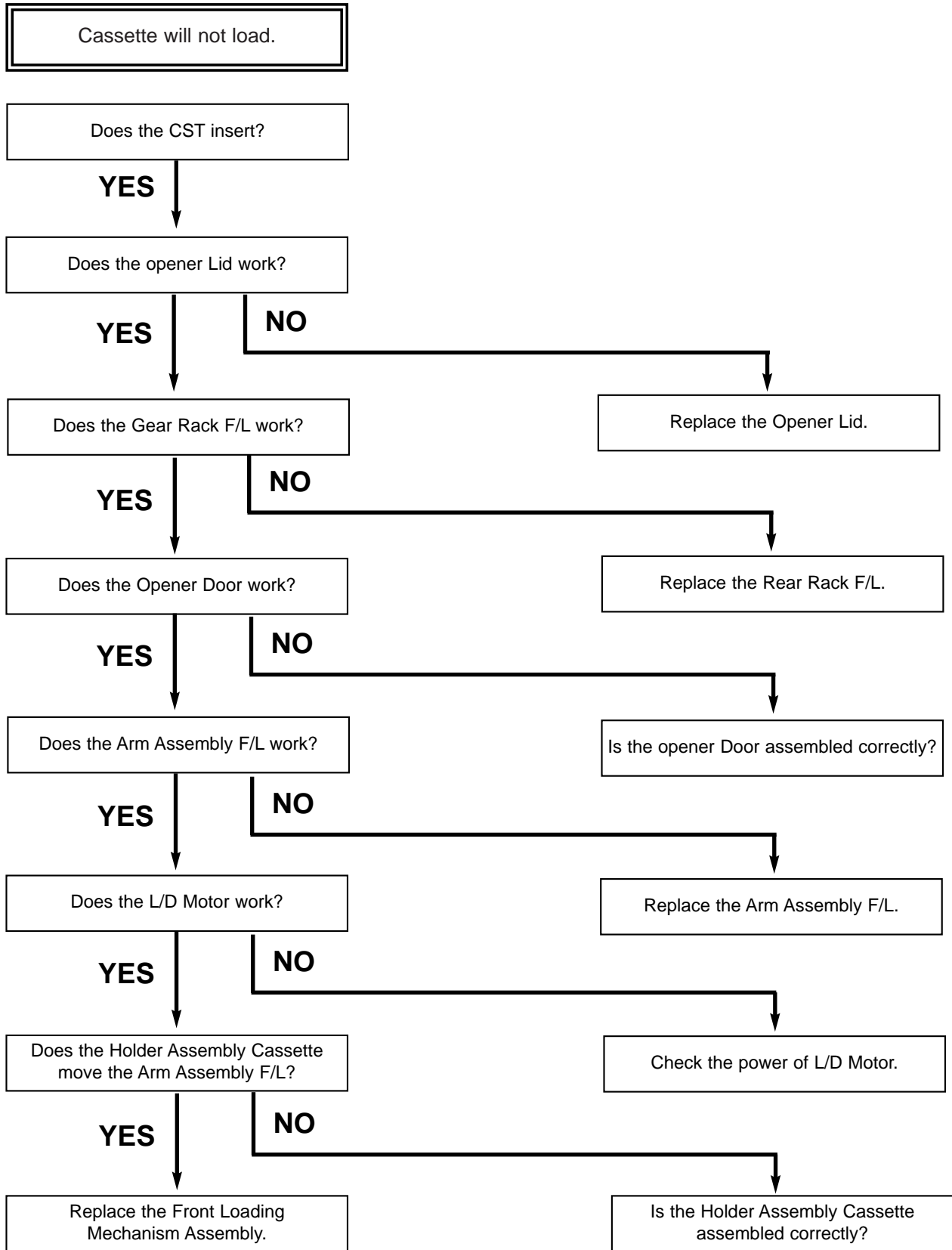


B.



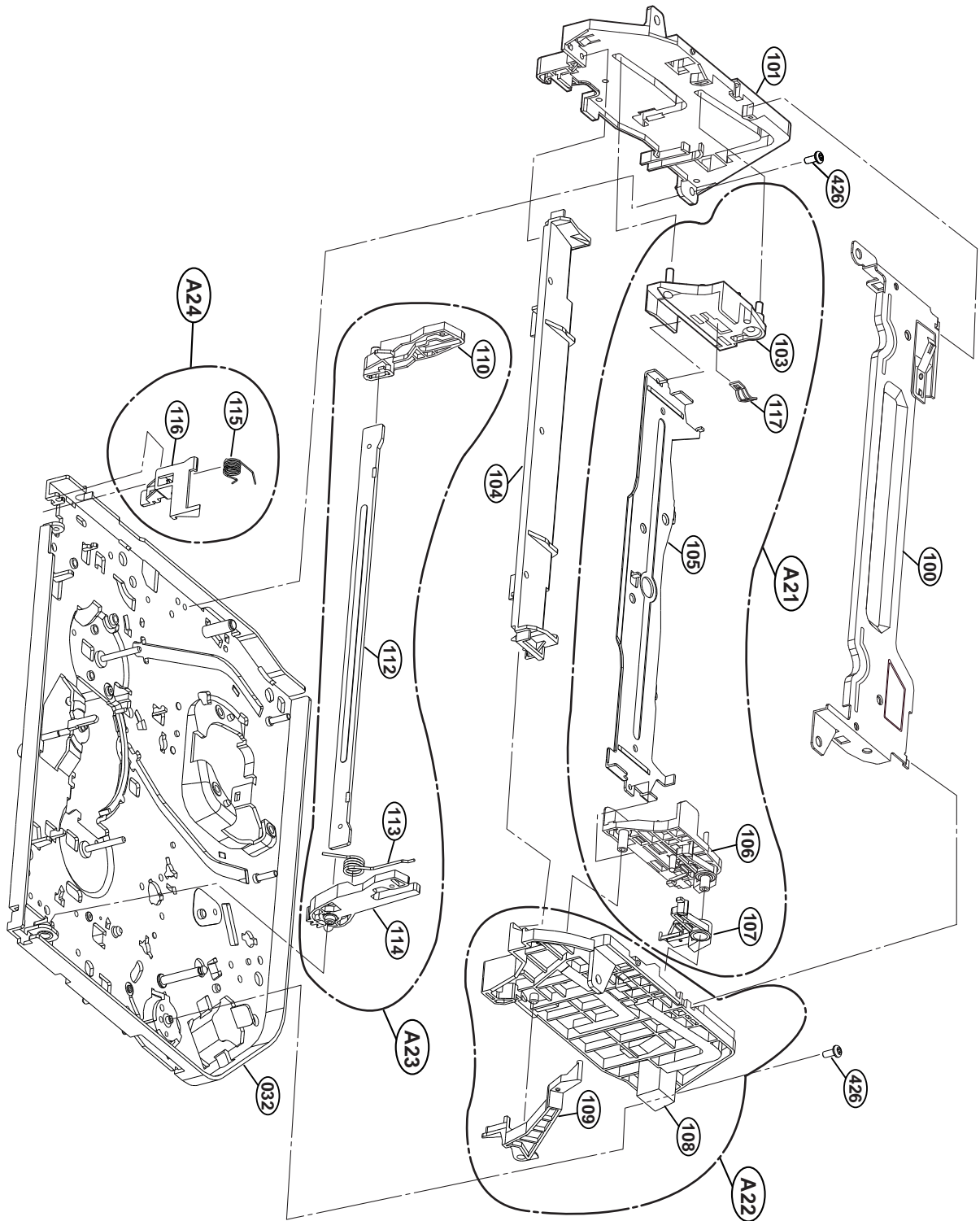
MECHANISM TROUBLESHOOTING GUIDE

C.



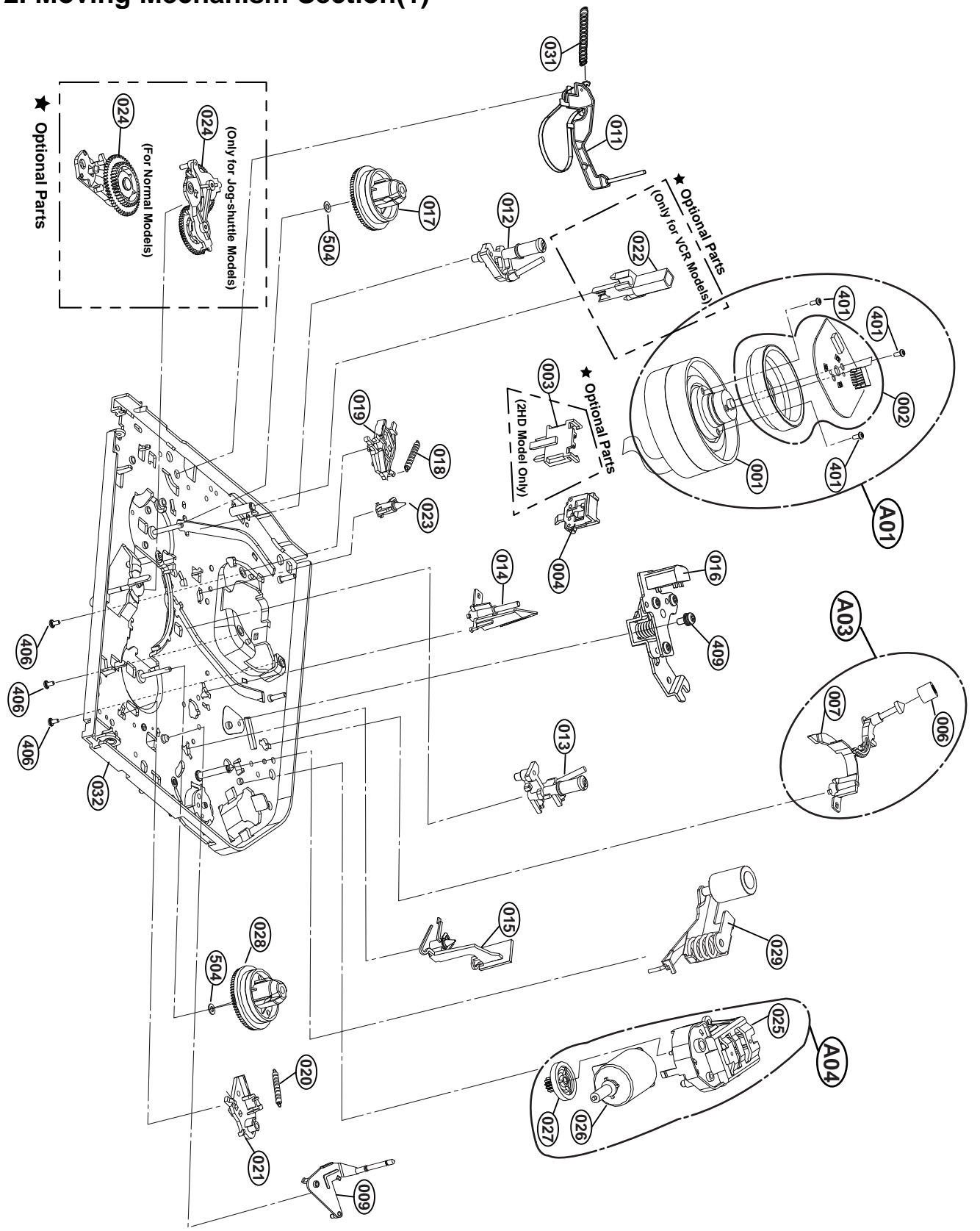
EXPLODED VIEWS

1. Front Loading Mechanism Section



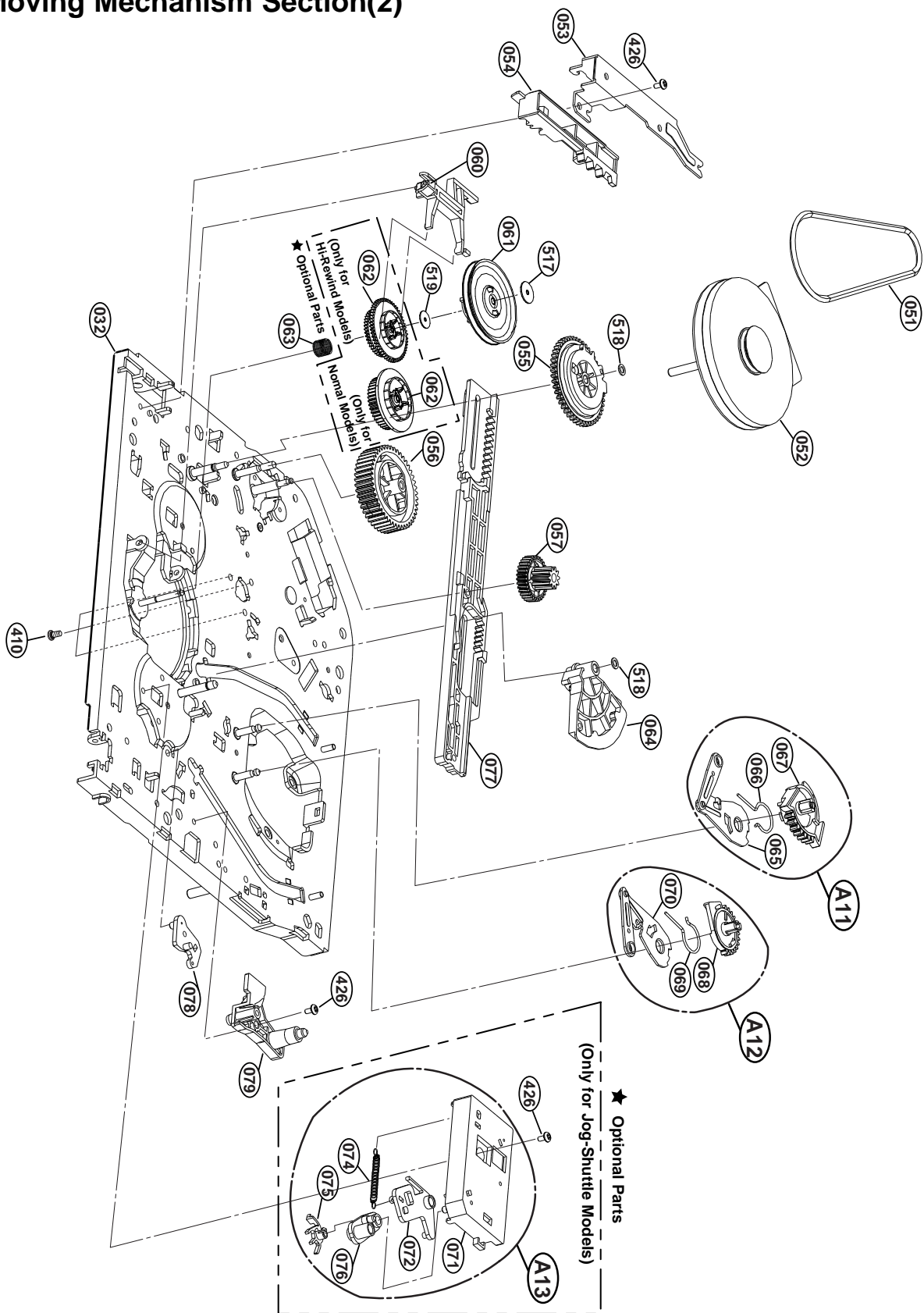
EXPLODED VIEWS

2. Moving Mechanism Section(1)



EXPLODED VIEWS

3. Moving Mechanism Section(2)



SECTION 5 REPLACEMENT PARTS LIST

A:VHR-M261EV,B:M271SP,C:M291EV,D:M291IR,E:M291E

RUN : 2001.02.20

. Mechanical Section

NSP : Not Service Parts

S	AL	LOCA. NO.	PARTS NO.	A	B	C	D	E	DESCRIPTION	SPECIFICATION	N.S.P.	REMARKS
ASSEMBLY SECTION												
		A00	645 048 0973					O	DECK ASSY.VIDEO	D33Y1 (2HD, NP, HSR, VCR)	NSP	6721R-0406A
		A00	645 048 0980	O	O	O	O	O	DECK ASSY.VIDEO	D33Y1 DI (2HD, NP, VCR)	NSP	6721RF0405A
		A01	645 048 1000	O	O	O	O	O	DRUM(CIRC) ASSY	D33(Y1)-2CH SP/EP (6M2)		6723R-D201B
		A03	645 045 0433	O	O	O	O	O	ARM ASSY	CLEANER		4261R-0015A
		A04	645 045 1102	O	O	O	O	O	BRACKET ASSY	L/D MOTOR		4811R-0019A
		A04	645 048 0720					O	BRACKET ASSY	L/D MOTOR(SAMHONGSA)		4811R-0019B
		A11	645 045 0525	O	O	O	O	O	GEAR	ASSY P3		4470R-0028A
		A12	645 045 0501	O	O	O	O	O	GEAR	ASSY P2		4470R-0026A
		A21	645 045 0631	O	O	O	O	O	HOLDER ASSY	CST		4931R-0031A
		A22	645 045 1096	O	O	O	O	O	BRACKET ASSY	DOOR		4811R-0018A
		A23	645 045 0440	O	O	O	O	O	ARM ASSY	F/L		4261R-0016A
		A24	645 045 0969	O	O	O	O	O	LEVER	ASSY SWITCH		4510R-0019A
PARTS SECTION												
		001	645 048 0997	O	O	O	O	O	DRUM(CIRC) ASSY	SUB D33-2CH SP/EP (5M2)		6723R-D104B
		002	645 047 5436	O	O	O	O	O	MOTOR(MECH)	DRUM I2OEL SEJIN-SANKYO (SENSO		4680R-B001A
		002	645 047 5443	O	O	O	O	O	MOTOR(MECH)	DRUM GVD-D33Y LGIT (W/O IC)		4680R-B002A
		003	645 044 0717	O	O	O	O	O	HOLDER	FPC(I2CH)		4930R-0106A
		004	645 044 0762	O	O	O	O	O	CAP	FPC		5006R-0020A
		006	645 045 1027	O	O	O	O	O	ROLLER	CLEANER		4580R-0004A
		007	645 045 0396	O	O	O	O	O	ARM	CLEANER		4260R-0027A
		009	645 045 0457	O	O	O	O	O	ARM ASSY	T/UP(D-33K)		4261R-0017A
		011	645 045 0464	O	O	O	O	O	ARM ASSY	TENSION (D-33K)		4261R-0018A
		012	645 045 0334	O	O	O	O	O	BASE ASSY	P2		3041R-0003A
		013	645 045 0341	O	O	O	O	O	BASE ASSY	P3		3041R-0004A
		014	645 045 0365	O	O	O	O	O	BASE ASSY	P4		3041R-0007A
		015	645 045 1140	O	O	O	O	O	OPENER	LID(D-33K)		5870R-0003A
		016	645 047 4903	O	O	O	O	O	BASE ASSY	A/C HEAD(TDK)		3041R-0005B
		016	645 045 0358					O	BASE ASSY	A/C HEAD(LGEC)		3041R-0005F
		017	645 045 0891	O	O	O	O	O	REEL	S		4408R-0001B
		018	645 045 0686	O	O	O	O	O	SPRING	SB		4970R-0054A
		019	645 045 0471	O	O	O	O	O	BRAKE ASSY	S		4421R-0003A
		020	645 045 0679	O	O	O	O	O	SPRING	TB		4970R-0053A
		021	645 045 0488	O	O	O	O	O	BRAKE ASSY	T		4421R-0004A
		022	645 045 1126	O	O	O	O	O	HEAD	FE D33 . LG C&D/ST		523-833B
		023	645 045 1119	O	O	O	O	O	SUPPORTER	CST		4980R-0010A
		024	645 045 0426	O	O	O	O	O	ARM ASSY	IDLER		4261R-0013A
		025	645 045 1065	O	O	O	O	O	BRACKET	L/D MOTOR	NSP	4810R-0066A
		026	645 045 1058	O	O	O	O	O	MOTOR ASSY	L/D	NSP	4681R-0008A
		026	645 048 0713					O	MOTOR ASSY	L/D (SAMHONGSA)	NSP	4681R-0008B
		027	645 045 0495	O	O	O	O	O	GEAR	WHEEL	NSP	4470R-0025A
		028	645 045 0907	O	O	O	O	O	REEL	T		4408R-0002B
		029	645 047 5412	O	O	O	O	O	ARM ASSY	PINCH (MOLD BEARING)		4261R-0011A
		029	645 045 0419					O	ARM ASSY	PINCH (MOLD BEARING)		4261R-0011B
		031	645 045 0716	O	O	O	O	O	SPRING	TENSION (D-33K)		4970R-0069A
		032	645 047 4934	O	O	O	O	O	CHASSIS ASSY	D33Y	NSP	3141R-0002C
		051	645 045 0884	O	O	O	O	O	BELT	CAPSTAN		4400R-0005A
		052	645 047 5429	O	O	O	O	O	MOTOR(MECH)	CAPSTAN F2QSB53 SANKYO PWM		4680R-A001A
		053	645 045 1416	O	O	O	O	O	GUIDE	RACK F/L		4974R-0018A
		054	645 045 0938	O	O	O	O	O	GEAR	RACK F/L		4470R-0037A
		055	645 045 0556	O	O	O	O	O	GEAR	DRIVE		4470R-0033A
		056	645 045 0549	O	O	O	O	O	GEAR	CAM		4470R-0032B
		057	645 045 0570	O	O	O	O	O	GEAR	CONNECT		4470R-0036B
		060	645 045 1010	O	O	O	O	O	LEVER	F/R(D33K)		4510R-0025B
		061	645 045 0877	O	O	O	O	O	CLUTCH ASSY	D33K		4265R-0003A
		062	645 045 0594	O	O	O	O	O	GEAR	UP / D33K		4470R-0058A
		063	645 045 0662	O	O	O	O	O	SPRING	UP/D		4970R-0051A
		064	645 045 0563	O	O	O	O	O	GEAR	SECTOR		4470R-0034A
		065	645 045 0952	O	O	O	O	O	LEVER	P3	NSP	4510R-0016A
		066	645 045 0648	O	O	O	O	O	SPRING	L/D	NSP	4970R-0046A
		067	645 045 0532	O	O	O	O	O	GEAR	P3	NSP	4470R-0029A
		068	645 045 0518	O	O	O	O	O	GEAR	P2	NSP	4470R-0027A
		069	645 045 0648	O	O	O	O	O	SPRING	L/D	NSP	4970R-0046A
		070	645 045 0945	O	O	O	O	O	LEVER	P2	NSP	4510R-0015A
		077	645 045 0839	O	O	O	O	O	PLATE	SLIDER		3300R-0157A
		078	645 045 0893	O	O	O	O	O	LEVER	TENSION		4510R-0022A
		079	645 045 0815	O	O	O	O	O	BASE	TENSION(D-33K)		3040R-0021A
		100	645 045 0853	O	O	O	O	O	PLATE ASSY	TOP		3301R-0032A
		101	645 045 1089	O	O	O	O	O	BRACKET	SIDE(L)		4810R-0068A
		103	645 045 0624	O	O	O	O	O	HOLDER	SIDE(L)		4930R-0162A
		104	645 045 1423	O	O	O	O	O	GUIDE	CST		4974R-0019A
		105	645 045 0600	O	O	O	O	O	HOLDER	CST	NSP	4930R-0159A
		106	645 045 0617	O	O	O	O	O	HOLDER	SIDE(R)	NSP	4930R-0161A
		107	645 045 1003	O	O	O	O	O	LEVER	STOPPER(R)	NSP	4510R-0024A
		108	645 045 1072	O	O	O	O	O	BRACKET	SIDE(R)	NSP	4810R-0067A
		109	645 045 1133	O	O	O	O	O	OPENER	DOOR	NSP	5870R-0002A
		110	645 045 0402	O	O	O	O	O	ARM	F/L (L)	NSP	4260R-0030A
		112	645 045 0822	O	O	O	O	O	BODY	F/L	NSP	3070R-0001A
		113	645 045 0693	O	O	O	O	O	SPRING	F/L(R)	NSP	4970R-0056A

A:VHR-M261EV,B:M271SP,C:M291EV,D:M291IR,E:M291E

RUN : 2001.02.20

NSP : Not Service Parts

S	AL	LOCA. NO.	PARTS NO.	A	B	C	D	E	DESCRIPTION	SPECIFICATION	N.S.P.	REMARKS
			645 045 0389	O	O	O	O	O	ARM	F/L(R)	NSP	4260R-0019A
			645 045 0655	O	O	O	O	O	SPRING	SWITCH		4970R-0050A
			645 045 0976	O	O	O	O	O	LEVER	SWITCH		4510R-0020A
			645 045 0846	O	O	O	O	O	PLATE	SPRING	NSP	3300R-0537A
SCREW&NUT,WASHER												
			645 047 4880	O	O	O	O	O	SCREW MACHINE.PAN HEAD	D 2.6 L 4.0 MSWR3/FZY		1MPC0261418
			645 045 0778	O	O	O	O	O	PAN HEAD MACHINE SCREW S/W +	D 3.0 L 6.0 MSWR3/FZY		1MEC0302018
			645 045 1393	O	O	O	O	O	PAN HEAD MACN SCREW S/P WASH +	D 3.0 L 8.0 MSWR3/FZY		1MGC0302418
			645 045 0761	O	O	O	O	O	SCREW TAP TITE(B),PAN HEAD	#NAME?		1APF0262218
			645 045 1409	O	O	O	O	O	PAN HEAD MACHINE SCREW +	D 3.0 L 6.0 MSWR3/FZY		1MPC0302018
			645 045 0860	O	O	O	O	O	WASHER	P.S D3.1XD6X0.5T		354-001B
			645 045 0792	O	O	O	O	O	WASHER	STOPPER		1WZZR-0004B
			645 045 0785	O	O	O	O	O	WASHER	STOPPER		1WZZR-0004A
			645 045 0808	O	O	O	O	O	WASHER	STOPPER		1WZZR-0004D
. Cabinet & Main Frame Section												
ASSEMBLY SECTION												
		A42	645 048 1055					O	PWB(PCB) ASSY,TOTAL	SANYO POWER KEY BOARD		6871R-2146A
		A42	645 048 1079					O	PWB(PCB) ASSY,TOTAL	CBY202H/W SANYO LEFT KEY		6871R-2170A
		A43	645 048 0546					O	PANEL ASSY.FRONT(NORMAL PARTS)	CCY219TI (VHR-M291E,IR)		3721R-F163Q
		A43	645 048 0553					O	PANEL ASSY.FRONT(NORMAL PARTS)	CCY211TP (VHR-M271SP)		3721R-F163R
		A43	645 048 0560	O					PANEL ASSY.FRONT(NORMAL PARTS)	CCY210TP (VHR-M261EV)		3721R-F163S
		A43	645 048 0577					O	PANEL ASSY.FRONT(NORMAL PARTS)	CCY218TP (VHR-M291EV)		3721R-F163T
		A43	645 048 0584					O	PANEL ASSY.FRONT(NORMAL PARTS)	CCY219TI NA4US		3721R-F163U
		A46	645 048 0386					O	BOARD ASSY	CCY219TF.EVNT		3501R-1291D
		A46	645 048 0393	O					BOARD ASSY	CCY210TP.NA3GS		3501R-2418M
		A46	645 048 0409		O				BOARD ASSY	CCY211TP.NA6SS		3501R-2418N
		A46	645 048 0416			O			BOARD ASSY	CCY218TP.NA3GS		3501R-2418P
		A46	645 048 0423					O	BOARD ASSY	CCY219TI.NA4US		3501R-2418Q
		A49	645 048 1062					O	PWB(PCB) ASSY,TOTAL	CBY202W EVNT		6871R-2147C
		A49	645 048 1086	O	O	O	O	O	PWB(PCB) ASSY,TOTAL	CBY202H/W SANYO RIGHT		6871R-2171C
PARTS SECTION												
		250	645 044 0670	O	O	O	O	O	CASE	TOP(J597G.SILVER),SIDE	NSP	3110R-0128U
		260	645 044 0694	O	O	O	O	O	FRAME	MAIN (VII-PJT, 60HR)		3210R-0023B
		275	645 047 5450	O	O	O	O	O	HOLDER	LED		4930R-0102A
		280	645 048 0515					O	PANEL,VIDEO	FRONT CCY219TI.TF(B,W/O AV,CLO	NSP	3720R-F123J
		280	645 048 0522	O	O				PANEL,VIDEO	FRONT CCY210.1TP(B,W/O AV,CLOC	NSP	3720R-F123K
		280	645 048 0539			O			PANEL,VIDEO	FRONT CCY218TP(B,W/O AV,CLOCK	NSP	3720R-F123L
		283	645 048 0454					O	DOOR	CST CCY219TI.TF(VHR-M291) B589		3580R-V010N
		283	645 048 0461		O				DOOR	CST CCY211TP(VHR-M271) B589G 1		3580R-V010P
		283	645 048 0478	O					DOOR	CST CCY210TP(VHR-M261EV) B589G		3580R-V010Q
		283	645 048 0485			O			DOOR	CST CCY218TP(VHR-M291EV) B589G		3580R-V010R
		284	645 044 6504	O	O	O	O	O	SPRING	DOOR		442-681A
		300	645 048 0898					O	POWER CORD	H03VVH2-F2 X 0.75MM FILTER VOL		6410RBHV01A
		300	645 044 0830	O	O	O	O	O	POWER CORD	H03VVH2-F2 X 0.75MM FILTER VOL		6410RCHV02A
		320	645 048 0492	O	O				PANEL	DISTRIBUTOR (PAL-1SCART)		3720R-D020A
		320	645 048 0508		O	O	O	O	PANEL	DISTRIBUTOR (PAL-1SCART MONO)		3720R-D020B
		323	645 048 0379	O	O	O	O	O	CASE ASSY	PRE-AMP (PBSB-SH)		3111R-0089B
		330	645 048 0447	O	O	O	O	O	COVER	BOTTOM(LARGE)		3550R-0210A
SCREW												
		452	645 048 0430	O	O	O	O	O	SCREW	SPECIAL		353-051A
		457	645 047 5030	O	O	O	O	O	SCREW	SPECIAL (3X12)		353-051E
		462	645 047 5047	O	O	O	O	O	SCREW	SPECIAL(FBK) (353S353A)		353-136A
. Packing Accessory Section												
		801	645 048 0591	O					INSTRUCTION ASSY	ACCY210TP EVENT		3835RP0063A
		801	645 048 0607			O			INSTRUCTION ASSY	CCY218TP EVENT		3835RP0063B
		801	645 048 0614		O				INSTRUCTION ASSY	CCY211TP EVENT		3835RP0063C
		801	645 048 0621					O	INSTRUCTION ASSY	CCY219TI EVENT		3835RP0063D
		801	645 048 0638					O	INSTRUCTION ASSY	CCY219TF EVENT		3835RP0063E
		802	645 048 0652					O	BOX	AL182W EVNT SW3-A 0.9 1 FLX 1		3890R-H023B
		802	645 048 0669	O					BOX	CCY210TP NA3GS SW3-A 0.849 2 F		3890R-H755D
		802	645 048 0676		O				BOX	CCY211TP NA6SS SWW3-A 0.849 2		3890R-H755E
		802	645 048 0683					O	BOX	CCY219TI NA4US SWW3-A 0.849 3		3890R-H755J
		802	645 048 0690			O			BOX	CCY218TP NA3GS SW3-A 0.849 2 F		3890R-H755K
		803	645 048 0706	O	O	O	O	O	PACKING	AF999NS 0.02 65 EPS 12 1190 23		3920R-0067A
		804	645 047 4897	O	O	O			BAG	SOFT(VCP)	NSP	292-053A
		804	645 048 0645					O	SHEET (MECH)	LDPE 600M 630MM 0.5 VCR DVD	NSP	3858R-S001A
		806	645 048 1017	O	O	O	O	O	CABLE,COAXIAL	1200M/M PAL-PAL DOUBLE SHIELD		6850R-CAA26
		808	645 048 0744	O	O	O	O	O	BATTERY	1.5V AAM UM-3 LOL 1PAIR		534-002C
		810	645 048 1024	O	O	O	O	O	CABLE ASSY,RF	CABLE ASSY,RF/SCART/RCA USING		6851RP0003A
		810	645 048 1031					O	CABLE ASSY,RF	CABLE ASSY,RF/SCART/RCA USING		6851RP0003C
. Remote Control Section												
		900	645 048 0942					O	REMOTE CONTROLLER ASSY,FOR GEN	SANYO(PAL NORMAL)1AV4U10B30900		6711R2N040D
		900	645 048 0959					O	REMOTE CONTROLLER ASSY,FOR GEN	SANYO(PAL NORMAL)1AV4U10B30901		6711R2N040E
		900	645 048 0966	O	O				REMOTE CONTROLLER ASSY,FOR GEN	SANYO(PAL NORMAL)1AV4U10B30902		6711R2N040F

. Electrical Section

NSP : Not Service Parts

S	AL	LOCA. NO.	A	B	C	D	E	DESCRIPTION	SPECIFICATION	REMARK	PART NO.(LG)
CAPACITOR											
		C101	645 047 5696	O	O	O	O	CAPACITOR_DRAWING	PCX2 275V 0.1UF.M (PILKO)		624-088F
		C101	645 048 0843				O	CAPACITOR	PCX2 0.1UF/275VAC R T/P		624-088H
		C102	645 047 5696	O	O	O	O	CAPACITOR_DRAWING	PCX2 275V 0.1UF.M (PILKO)		624-088F
		C102	645 048 0843				O	CAPACITOR	PCX2 0.1UF/275VAC R T/P		624-088H
		C103	645 047 9861	O	O	O	O	CAPACITOR_AL ELECTROLYTIC	47UF SHL_SD 400V M FL BK7.5		OCE476CU611
		C105	645 047 3906	O	O	O	O	CAPACITOR_POLYESTER	0.01UF D 630V K PE NI TP		OCQ1031Y519
		C106	645 048 0836	O	O	O	O	CAPACITOR	HIGH-VOL 100P/1KV SMPS SAMHWA		624-087B
		C109	645 047 9847	O	O	O	O	CAPACITOR_ELECTROLYTIC	10M SRA 50V M FM5 TP(5)		OCE1064K638
		C112	645 047 9908	O	O	O	O	CAPACITOR_SEMI CERAMIC	3300 PF 400V M E R(NK,AD,SD)		OCG3320U630
		C113	645 047 9892	O	O	O	O	CAPACITOR_SEMI CERAMIC	220 PF 400V M B R(NK,AD,SD)		OCG2210U610
		C114	645 047 3975	O	O	O	O	CAPACITOR_POLYESTER(MYLAR)	0.047UF S 50V J PE TP		OCQ4732K409
		C115	645 047 5665	O	O	O	O	CAPACITOR	CE 47UF/50V KME (SMPS)		624-085D
		C116	645 047 3562	O	O	O	O	CAPACITOR_AL ELECTROLYTIC	1000UF KME 16V M FM5 BULK		OCE108BF630
		C117	645 047 3647	O	O	O	O	CAPACITOR_ELECTROLYTIC	330UF SMS 10V M FM5 TP5		OCE337D638
		C120	645 047 3708	O	O	O	O	CAPACITOR_AL ELECTROLYTIC	470UF KME TYPE 25V M FM5 BULK		OCE477BH630
		C120	645 047 9878				O	CAPACITOR_ELECTROLYTIC	470UF KME 25V M FM5 TP5		OCE477BH638
		C121	645 047 3630	O	O	O	O	CAPACITOR_FIXED ELECTROLYTIC	330UF SHL_SD 25V 20% FL TP 5		OCE337CH618
		C127	645 047 3821	O	O	O	O	CAPACITOR_TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S		OCN223AK948
		C135	645 047 3807	O	O	O	O	CAPACITOR_TUBULA(HIGH DIELE)	220P 50V K B TA26		OCN2210K518
		C152	645 047 3678	O	O	O	O	CAPACITOR_ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)		OCE4764F638
		C301	645 047 3531	O	O	O	O	CAPACITOR_ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)		OCE1054K638
		C303	645 047 3531	O	O	O	O	CAPACITOR_ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)		OCE1054K638
		C304	645 047 3661	O	O	O	O	CAPACITOR_ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)		OCE4764C638
		C305	645 047 3760	O	O	O	O	CAPACITOR_FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA		OCN1040K948
		C306	645 047 3753	O	O	O	O	CAPACITOR_TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		OCN1030F678
		C307	645 047 3999	O	O	O	O	CAPACITOR_TUBULA(T.C)	27P 50V J SL TA26		OCX2700K408
		C308	645 047 3753	O	O	O	O	CAPACITOR_TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		OCN1030F678
		C309	645 047 9946	O	O	O	O	CAPACITOR_TUBULAR(HIGH DIELEC)	390P 50V K B TA26		OCN3910K518
		C310	645 047 3654	O	O	O	O	CAPACITOR_FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5		OCE4754K638
		C311	645 047 9939	O	O	O	O	CAPACITOR_TUBULA(HIGH DIELE)	180P 50V K B TA26		OCN1810K518
		C312	645 047 3999	O	O	O	O	CAPACITOR_TUBULA(T.C)	27P 50V J SL TA26		OCX2700K408
		C313	645 047 9915	O	O	O	O	CAPACITOR_TUBULAR(HIGH DIELEC)	100PF 50V J B TA26		OCN1010K418
		C314	645 047 3753	O	O	O	O	CAPACITOR_TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		OCN1030F678
		C315	645 047 3548	O	O	O	O	CAPACITOR_ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		OCE1064F638
		C316	645 047 3548	O	O	O	O	CAPACITOR_ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		OCE1064F638
		C317	645 047 3753	O	O	O	O	CAPACITOR_TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		OCN1030F678
		C318	645 047 3531	O	O	O	O	CAPACITOR_ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)		OCE1054K638
		C319	645 047 3760	O	O	O	O	CAPACITOR_FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA		OCN1040K948
		C320	645 047 3531	O	O	O	O	CAPACITOR_ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)		OCE1054K638
		C322	645 047 3548	O	O	O	O	CAPACITOR_ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		OCE1064F638
		C323	645 047 9984	O	O	O	O	CAPACITOR_TUBULA(T.C)	33P 50V J SL TA26		OCX3300K408
		C324	645 047 3753	O	O	O	O	CAPACITOR_TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		OCN1030F678
		C325	645 047 3548	O	O	O	O	CAPACITOR_ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		OCE1064F638
		C326	645 047 3548	O	O	O	O	CAPACITOR_ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		OCE1064F638
		C327	645 047 3548	O	O	O	O	CAPACITOR_ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		OCE1064F638
		C328	645 047 3883	O	O	O	O	CAPACITOR_FIXED TUBULAR(High d	0.047UF D 50V 80%,-20% F(Y5V)		OCN4730K948
		C329	645 047 3753	O	O	O	O	CAPACITOR_TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		OCN1030F678
		C330	645 047 3753	O	O	O	O	CAPACITOR_TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		OCN1030F678
		C332	645 047 3753	O	O	O	O	CAPACITOR_TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		OCN1030F678
		C333	645 047 3548	O	O	O	O	CAPACITOR_ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		OCE1064F638
		C334	645 047 3753	O	O	O	O	CAPACITOR_TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		OCN1030F678
		C336	645 047 3753	O	O	O	O	CAPACITOR_TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		OCN1030F678
		C337	645 047 3654	O	O	O	O	CAPACITOR_FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5		OCE4754K638
		C338	645 047 3821	O	O	O	O	CAPACITOR_TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S		OCN223AK948
		C339	645 047 3654	O	O	O	O	CAPACITOR_FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5		OCE4754K638
		C340	645 047 3883	O	O	O	O	CAPACITOR_FIXED TUBULAR(High d	0.047UF D 50V 80%,-20% F(Y5V)		OCN4730K948
		C341	645 047 3821	O	O	O	O	CAPACITOR_TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S		OCN223AK948
		C342	645 047 3753	O	O	O	O	CAPACITOR_TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		OCN1030F678
		C343	645 047 3883	O	O	O	O	CAPACITOR_FIXED TUBULAR(High d	0.047UF D 50V 80%,-20% F(Y5V)		OCN4730K948
		C344	645 047 3753	O	O	O	O	CAPACITOR_TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		OCN1030F678
		C346	645 047 3661	O	O	O	O	CAPACITOR_ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)		OCE4764C638
		C348	645 047 3531	O	O	O	O	CAPACITOR_ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)		OCE1054K638
		C354	645 047 3661	O	O	O	O	CAPACITOR_ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)		OCE4764C638
		C358	645 047 3531	O	O	O	O	CAPACITOR_ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)		OCE1054K638
		C369	645 047 3821	O	O	O	O	CAPACITOR_TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S		OCN223AK948
		C374	645 047 3548	O	O	O	O	CAPACITOR_ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		OCE1064F638
		C376	645 047 3548	O	O	O	O	CAPACITOR_ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		OCE1064F638
		C377	645 047 3548	O	O	O	O	CAPACITOR_ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		OCE1064F638
		C378	645 047 3739	O	O	O	O	CAPACITOR_CERAMIC (HIGH DIELEC	0.1UF S 50V Z F TR		OCK104AK945
		C379	645 047 3548	O	O	O	O	CAPACITOR_ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		OCE1064F638
		C380	645 047 3739	O	O	O	O	CAPACITOR_CERAMIC (HIGH DIELEC	0.1UF S 50V Z F TR		OCK104AK945
		C382	645 047 3753	O	O	O	O	CAPACITOR_TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		OCN1030F678
		C383	645 047 3739	O	O	O	O	CAPACITOR_CERAMIC (HIGH DIELEC	0.1UF S 50V Z F TR		OCK104AK945
		C384	645 047 3753	O	O	O	O	CAPACITOR_TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		OCN1030F678
		C385	645 047 3753	O	O	O	O	CAPACITOR_TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		OCN1030F678
		C386	645 047 3593	O	O	O	O	CAPACITOR_ELECTROLYTIC	22M SRA 16V M FM5 TP(5)		OCE2264F638
		C387	645 047 3814	O	O	O	O	CAPACITOR_TUBULAR(HIGH DIELEC)	2200P 16V M X TA26		OCN2200F668
		C388	645 047 9922	O	O	O	O	CAPACITOR_TUBULA(HIGH DIELE)	1200P 16V M X TA26		OCN1220F668
		C389	645 047 3548	O	O	O	O	CAPACITOR_ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		OCE1064F638
		C391	645 047 3951	O	O	O	O	CAPACITOR_POLYESTER	0.022UF S 63V K PP NI TP5		OCQ2232L559
		C392	645 047 3692	O	O	O	O	CAPACITOR_AL ELECTROLYTIC	47UF SRA,SS 35V M FM5 TP 5		OCE4764J638
		C393	645 047 3920	O	O	O	O	CAPACITOR_POLYESTER	0.015UF S 50V J PE TP		OCQ1532K409
		C394	645 047 3913	O	O	O	O	CAPACITOR_POLYESTER(MYLAR)	0.01UF S 50V J PE TP		OCQ1032K409

A:VHR-M261EV,B:M271SP,C:M291EV,D:M291IR,E:M291E

RUN : 2001.02.20

NSP : Not Service Parts

S	AL	LOCA. NO.	PARTS NO.	A	B	C	D	E	DESCRIPTION	SPECIFICATION	N.S.P.	REMARKS
		C396	645 047 3821	0	0	0	0	0	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S		0CN223AK948
		C3B1	645 047 3883	0	0	0	0	0	CAPACITOR,FIXED TUBULAR(High d	0.047UF D 50V 80%-20% F(Y5V)		0CN4730K948
		C500	645 047 3609	0	0	0	0	0	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)		0CE2274C638
		C500	645 047 5658					0	CAPACITOR	SUPER CAP 0.047F/5.5V TP S/S		624-074A
		C501	645 047 3760	0	0	0	0	0	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%-20% F(Y5V) TA		0CN1040K948
		C502	645 047 3661	0	0	0	0	0	CAPACITOR,ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)		0CE4764C638
		C504	645 047 3715	0	0	0	0	0	CAPACITOR,AL.ELECTROLYTIC	470UF SHL,SD 10V M FM5 TP 5		0CE477CD638
		C505	645 047 3548	0	0	0	0	0	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		0CE1064F638
		C507	645 047 3753	0	0	0	0	0	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		0CN1030F678
		C509	645 047 3821	0	0	0	0	0	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S		0CN223AK948
		C510	645 047 3609	0	0	0	0	0	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)		0CE2274C638
		C512	645 047 9939	0	0	0	0	0	CAPACITOR TUBULA(HIGH DIELE)	180P 50V K B TA26		0CN1810K518
		C513	645 047 3739	0	0	0	0	0	CAPACITOR,CERAMIC (HIGH DIELEC	0.1UF S 50V Z F TR		0CK104AK945
		C514	645 047 3487	0	0	0	0	0	CAPACITOR,CERAMIC(TEMP COMP)	15P 50V J NP0 TS		0CC1500K415
		C515	645 047 3487	0	0	0	0	0	CAPACITOR,CERAMIC(TEMP COMP)	15P 50V J NP0 TS		0CC1500K415
		C517	645 047 3814	0	0	0	0	0	CAPACITOR,TUBULAR(HIGH DIELEC)	2200P 16V M X TA26		0CN2220F668
		C518	645 047 9823	0	0	0	0	0	CAPACITOR CERAMIC(TEMP COMP)	33P 50V J NP0 TP		0CC3300K415
		C519	645 047 9830	0	0	0	0	0	CAPACITOR CERAMIC(TEMP COMP)	39P 50V J NP0 TP		0CC3900K415
		C524	645 047 3623	0	0	0	0	0	CAPACITOR,ELECTROLYTIC	33M SRA 16V M FM5 TP(5)		0CE3364F638
		C525	645 047 3548	0	0	0	0	0	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		0CE1064F638
		C526	645 047 3692	0	0	0	0	0	CAPACITOR,AL.ELECTROLYTIC	47UF SRA,SS 35V M FM5 TP 5		0CE4764J638
		C527	645 047 9939	0	0	0	0	0	CAPACITOR TUBULA(HIGH DIELE)	180P 50V K B TA26		0CN1810K518
		C529	645 047 3739	0	0	0	0	0	CAPACITOR,CERAMIC (HIGH DIELEC	0.1UF S 50V Z F TR		0CK104AK945
		C530	645 047 3548	0	0	0	0	0	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		0CE1064F638
		C531	645 047 3531	0	0	0	0	0	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)		0CE1054K638
		C532	645 047 3821	0	0	0	0	0	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S		0CN223AK948
		C533	645 047 3746	0	0	0	0	0	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26		0CN1020K518
		C534	645 047 3654	0	0	0	0	0	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5		0CE4754K638
		C535	645 047 3654	0	0	0	0	0	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5		0CE4754K638
		C540	645 047 3852	0	0	0	0	0	CAPACITOR,TUBULAR(HIGH DIELEC)	0.033UF 50V K B TA26		0CN3330K518
		C541	645 047 3654	0	0	0	0	0	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5		0CE4754K638
		C542	645 047 3890	0	0	0	0	0	CAPACITOR TUBULA(HIGH DIELE)	680P 50V K B TA26		0CN6810K518
		C543	645 047 3814	0	0	0	0	0	CAPACITOR,TUBULAR(HIGH DIELE)	2200P 16V M X TA26		0CN2220F668
		C544	645 047 3975	0	0	0	0	0	CAPACITOR,POLYESTER(MYLAR)	0.047UF S 50V J PE TP		0CQ4732K409
		C545	645 047 3852	0	0	0	0	0	CAPACITOR,TUBULAR(HIGH DIELEC)	0.033UF 50V K B TA26		0CN3330K518
		C546	645 047 3685	0	0	0	0	0	CAPACITOR,ELECTROLYTIC	47M SRA 25V M FM5 TP(5)		0CE4764H638
		C551	645 047 3968	0	0	0	0	0	CAPACITOR,POLYESTER(MYLAR)	0.033UF S 50V J PE TP		0CQ3332K409
		C552	645 047 3753	0	0	0	0	0	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		0CN1030F678
		C556	645 047 3753	0	0	0	0	0	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		0CN1030F678
		C557	645 047 3753	0	0	0	0	0	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		0CN1030F678
		C561	645 047 3548	0	0	0	0	0	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		0CE1064F638
		C564	645 047 3845	0	0	0	0	0	CAPACITOR TUBULA(HIGH DIELE)	330P 50V K B TA26		0CN3310K518
		C567	645 047 3746	0	0	0	0	0	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26		0CN1020K518
		C570	645 047 3487	0	0	0	0	0	CAPACITOR,CERAMIC(TEMP COMP)	15P 50V J NP0 TS		0CC1500K415
		C571	645 047 3487	0	0	0	0	0	CAPACITOR,CERAMIC(TEMP COMP)	15P 50V J NP0 TS		0CC1500K415
		C574	645 047 3746	0	0	0	0	0	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26		0CN1020K518
		C575	645 047 3746	0	0	0	0	0	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26		0CN1020K518
		C576	645 047 3999	0	0	0	0	0	CAPACITOR TUBULA(T.C)	27P 50V J SL TA26		0CX2700K408
		C577	645 047 3821	0	0	0	0	0	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S		0CN223AK948
		C581	645 047 3753	0	0	0	0	0	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		0CN1030F678
		C582	645 047 3753	0	0	0	0	0	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		0CN1030F678
		C588	645 047 3654	0	0	0	0	0	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5		0CE4754K638
		C589	645 047 3944	0	0	0	0	0	CAPACITOR,POLYESTER(MYLAR)	0.022UF S 50V J PE TP		0CQ2232K409
		C596	645 047 3821	0	0	0	0	0	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S		0CN223AK948
		C5G1	645 047 9854	0	0	0	0	0	CAPACITOR,AL.ELECTROLYTIC	1000000000 PF SMS,SG 6.3V M FM		0CE1086C638
		C5R1	645 047 3548	0	0	0	0	0	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		0CE1064F638
		C5S1	645 047 9991	0	0	0	0	0	CAPACITOR TUBULA(T.C)	43P 50V J SL TA26		0CX4300K408
		C701	645 047 3654	0	0	0	0	0	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5		0CE4754K638
		C703	645 047 3654	0	0	0	0	0	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5		0CE4754K638
		C704	645 047 3678	0	0	0	0	0	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)		0CE4764F638
		C706	645 047 3715	0	0	0	0	0	CAPACITOR,AL.ELECTROLYTIC	470UF SHL,SD 10V M FM5 TP 5		0CE477CD638
		C707	645 047 3760	0	0	0	0	0	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%-20% F(Y5V) TA		0CN1040K948
		C710	645 048 0010	0	0	0	0	0	CAPACITOR TUBULA(T.C)	68P 50V J SL TA26		0CX6800K408
		C711	645 047 9984	0	0	0	0	0	CAPACITOR TUBULA(T.C)	33P 50V J SL TA26		0CX3300K408
		C712	645 048 0003	0	0	0	0	0	CAPACITOR TUBULA(T.C)	5.6PF 50V K SL TA26		0CX5600K508
		C713	645 047 3678	0	0	0	0	0	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)		0CE4764F638
		C7M1	645 047 9915	0	0	0	0	0	CAPACITOR,TUBULAR(HIGH DIELEC)	100PF 50V J B TA26		0CN1010K418
		C7M2	645 047 3678	0	0	0	0	0	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)		0CE4764F638
		C7M3	645 047 9991	0	0	0	0	0	CAPACITOR TUBULA(T.C)	43P 50V J SL TA26		0CX4300K408
		C7M6	645 047 3999	0	0	0	0	0	CAPACITOR TUBULA(T.C)	27P 50V J SL TA26		0CX2700K408
		C7V1	645 047 3678	0	0	0	0	0	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)		0CE4764F638
		C7V2	645 047 3753	0	0	0	0	0	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		0CN1030F678
		C7V3	645 047 3753	0	0	0	0	0	CAPACITOR TUBULA(HIGH DIELE)	0.01M 16V M Y TA26		0CN1030F678
		C7V5	645 047 9960	0	0	0	0	0	CAPACITOR,POLYESTER(MYLAR)	0.0560UF S 50V J PE TP		0CQ5632K409
		C7V6	645 047 3654	0	0	0	0	0	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5		0CE4754K638
		C7V7	645 047 3531	0	0	0	0	0	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)		0CE1054K638
		C7V8	645 047 3531	0	0	0	0	0	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)		0CE1054K638
		C901	645 047 3746	0	0	0	0	0	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26		0CN1020K518
		C902	645 047 9885	0	0	0	0	0	CAPACITOR,AL.ELECTROLYTIC	470UF SR,SV 6.3V M FL TP 5		0CE4775C618
		C903	645 047 3746	0	0	0	0	0	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26		0CN1020K518
		C904	645 047 3746	0	0	0	0	0	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26		0CN1020K518
		C905	645 047 9977	0	0	0	0	0	CAPACITOR TUBULA(T.C)	10P 50V J SL TA26		0CX1000K408
		C906	645 047 9977	0	0	0	0	0	CAPACITOR TUBULA(T.C)	10P 50V J SL TA26		0CX1000K408
		C908	645 047 3746	0	0	0	0	0	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26		0CN1020K518
		C911	645 047 3746	0	0	0	0	0	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26		0CN1020K518

A:VHR-M261EV,B:M271SP,C:M291EV,D:M291IR,E:M291E

RUN : 2001.02.20

NSP : Not Service Parts

S	AL	LOCA. NO.	PARTS NO.	A	B	C	D	E	DESCRIPTION	SPECIFICATION	N.S.P.	REMARKS
		C912	645 047 9885						CAPACITOR,AL ELECTROLYTIC	470UF SR,SV 6.3V M FL TP 5		0CE4775C618
		C914	645 047 3746						CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26		0CN1020K518
		C917	645 047 9977						CAPACITOR TUBULA(T.C)	10P 50V J SL TA26		0CX1000K408
		C920	645 047 9953						CAPACITOR TUBULA(HIGH DIELE)	82PF 50V K B TA26		0CN8200K518
		C921	645 047 9953						CAPACITOR TUBULA(HIGH DIELE)	82PF 50V K B TA26		0CN8200K518
		C922	645 047 9953						CAPACITOR TUBULA(HIGH DIELE)	82PF 50V K B TA26		0CN8200K518
		C923	645 047 9953						CAPACITOR TUBULA(HIGH DIELE)	82PF 50V K B TA26		0CN8200K518
		C951	645 047 3548						CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		0CE1064F638
		C957	645 047 3999						CAPACITOR TUBULA(T.C)	27P 50V J SL TA26		0CX2700K408
		C958	645 047 3999						CAPACITOR TUBULA(T.C)	27P 50V J SL TA26		0CX2700K408
		C960	645 047 3531						CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)		0CE1054K638
		C961	645 047 3531						CAPACITOR ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)		0CE1054K638
		C962	645 047 3531						CAPACITOR ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)		0CE1054K638
		C963	645 047 3548						CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		0CE1064F638
		C964	645 047 3531						CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)		0CE1054K638
		C9A1	645 047 3531						CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)		0CE1054K638
		C9A2	645 047 3531						CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)		0CE1054K638
		C9A3	645 047 3531						CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)		0CE1054K638
		C9A4	645 047 3760						CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA		0CN1040K948
		C9A5	645 047 3548						CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		0CE1064F638
		C9A6	645 047 3548						CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		0CE1064F638
		C9A7	645 047 3548						CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)		0CE1064F638
		C9F6	645 047 3760						CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA		0CN1040K948
		C9M1	645 047 3760						CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA		0CN1040K948
DIODE												
		BD101	645 047 4033						DIODE	S1WBA60(1A 600V) SHIDENKEN		0DD16000DA
		D102	645 048 0027						DIODE	ERA22-10 KFLB TP R T/P,FUJI		0DD221009AA
		D103	645 048 0041						DIODE,RECTIFIER	ERA18-02KFRB TP FUJI DO204AL 2		0DR180209AA
		D104	645 047 4026						DIODE,SWITCHING	1SS133 DETECT,SW TP		0DD133009AA
		D105	645 047 4019						DIODE	EU01W(R-FORM) TP SANKEN		0DD010009AC
		D106	645 048 0034						DIODE,RECTIFIER	1N5822 BK RECTRON DO201AD 40V		0DR158220AA
		D109	645 048 0058						DIODE,RECTIFIER	HER202 BK RECTRON NON 100V 2A		0DR202000AB
		D151	645 047 4057						DIODE,RECTIFIER	RL104 R. TP GULF SEMICONDUCTOR		0DR104009AB
		D152	645 047 4057						DIODE,RECTIFIER	RL104 R. TP GULF SEMICONDUCTOR		0DR104009AB
		D156	645 047 4026						DIODE,SWITCHING	1SS133 DETECT,SW TP		0DD133009AA
		D160	645 047 4057						DIODE,RECTIFIER	RL104 R. TP GULF SEMICONDUCTOR		0DR104009AB
		D301	645 047 4026						DIODE,SWITCHING	1SS133 DETECT SW TP		0DD133009AA
		D509	645 047 4026						DIODE,SWITCHING	1SS133 DETECT,SW TP		0DD133009AA
		D901	645 047 4026						DIODE,SWITCHING	1SS133 DETECT,SW TP		0DD133009AA
		D902	645 047 4026						DIODE,SWITCHING	1SS133 DETECT,SW TP		0DD133009AA
FUSE,HOLDER												
		ES501	645 044 0748						HOLDER ASSY	END		4931R-0016A
		ES501	645 047 5467						HOLDER ASSY	END(DI-CKD)LOCAL		4931R-0016C
		ES502	645 044 0748						HOLDER ASSY	END		4931R-0016A
		ES502	645 047 5467						HOLDER ASSY	END(DI-CKD)LOCAL		4931R-0016C
		F101	645 048 0775						FUSE,SLOW BLOW	1600MA 250 V 5.2X20 CY/GL SEMK		585-011T
		FH01	645 047 5573						HOLDER	FUSE CLIP TP SINSUNG		586-008B
		FH02	645 047 5573						HOLDER	FUSE CLIP TP SINSUNG		586-008B
IC												
		IC101	645 048 0096						IC,POWER MANAGEMENT	STR-G6351L SANKEN 5PIN TO220 S		0IPMGSK001A
		IC103	645 047 4132						IC,KEC	KIA431 3 PIN TP		0IKE431000A
		IC301	645 048 0102						IC,SANYO	LA71598M 100QFP BK AVCP PAL		0IISA715980A
		IC501	645 048 0065						IC,MICRO CONTROLLER	GMS3977RBB16F HYUNDAI 100 QFP		0IMCRHY004A
		IC501	645 048 0072						IC,MICRO CONTROLLER	GMS3977RBB19F HYUNDAI 100 QFP		0IMCRHY008A
		IC501	645 048 0072						IC,MICRO CONTROLLER	GMS3977RBB19F HYUNDAI 100 QFP		0IMCRHY008A
		IC502	645 047 4118						IC,FAIRCHILD	FAN8082 8P DIP ST MOTOR DRIVE		0IFA808200A
		IC503	645 048 0126						IC,SAMSUNG ELECTRONICS	KS24C081C 8DIP ST 8K EEPROM IC		0ISS240810B
		IC504	645 047 4149						IC,KEC	KIA7031P 3P 3.1V RESET(TAPING)		0IKE703100A
		IC505	645 047 4156						IC,KEC	KIA7042P 3P 4.2V RESET(TAPING)		0IKE704200B
		IC505	645 048 0133						IC,SAMSUNG ELECTRONICS	KA7542Z RESET TO92 TP 4.2V		0ISS754200A
		IC7V1	645 048 0119						IC,SANYO	LC74793JM DIP24S BK VPS+PDC		0ISA747930A
		IC901	645 048 0089						IC,MITSUMI	MM1443XJ SSOP-34 TP CANAL S/W		0IMT144300A
JACK,FILTER												
		JK901	645 044 0885						SOCKET (CIRC),R.G.B.	2F-21P 3.81 ANGLE(BL-BK)		6620RM0002A
		JK901	645 044 0892						SOCKET (CIRC),R.G.B.	1F-21P 3.81 ANGLE(BLACK)		6620RM0002B
		JK901	645 044 0908						SOCKET (CIRC),R.G.B.	2F-21P 3.81 ANGLE(BK-BK)		6620RM0002C
		L102	645 048 0799						FILTER(CIRC)	SHT LFS2020V4-04350		616-145H
		L102	645 048 0805						FILTER(CIRC)	V-04350 LS FUTAI BULK =616-145		616-145M
COIL												
		J101	645 048 0881						COIL	BEAD CORE BFS3550R2FD8,R T/P		636-004C
		FL301	645 048 0867						COIL	BIAC OSC,1CHIP 5V(KS-75M)		633-032K
		L103	645 047 5726						COIL,CHOKE	CHOCK(22MH) TP 5MM		633-088G
		L104	645 047 5726						COIL,CHOKE	CHOCK(22MH) TP 5MM		633-088G
		L301	645 048 0188						INDUCTOR,RADIAL LEAD	10UH 5% TP 3X5 TR5		0LR0102J0N5
		L302	645 048 0164						INDUCTOR AXIAL LEAD	56M K 2.3X3.4 L5 TP		0LA0562K018
		L303	645 048 0157						INDUCTOR AXIAL LEAD	39M K 2.3X3.4 L5 TP		0LA0392K018
		L305	645 048 0188						INDUCTOR,RADIAL LEAD	10UH 5% TP 3X5 TR5		0LR0102J0N5
		L307	645 048 0188						INDUCTOR,RADIAL LEAD	10UH 5% TP 3X5 TR5		0LR0102J0N5
		L310	645 048 0188						INDUCTOR,RADIAL LEAD	10UH 5% TP 3X5 TR5		0LR0102J0N5
		L311	645 047 4248						INDUCTOR,RADIAL LEAD	100UH 5% TP 3X5 TR5		0LR1000J0N5
		L502	645 048 0195						INDUCTOR RADIAL LEAD	470M K 6X6 L5 TP		0LR4700K035

A:VHR-M261EV,B:M271SP,C:M291EV,D:M291IR,E:M291E

RUN : 2001.02.20

NSP : Not Service Parts

S	AL	LOCA. NO.	PARTS NO.	A	B	C	D	E	DESCRIPTION	SPECIFICATION	N.S.P.	REMARKS
		L503	645 047 4187	0	0	0	0	0	INDUCTOR AXIAL LEAD	12M K 2.3X3.4 L5 TP		OLA0122K018
		L505	645 047 9809	0	0	0	0	0	INDUCTOR,RADIAL LEAD	LF7.5N OEL 100UH 10% TP 4.8X4.0		GLR0102K0P5
		L506	645 048 0874	0	0	0	0	0	COIL	EL0405RA SKI150G-3 K-TDK 15UH		635-027C
		L5G1	645 048 0195	0	0	0	0	0	INDUCTOR RADIAL LEAD	470M K 6X6 L5 TP		OLR4700K035
		L5S1	645 048 0140	0	0	0	0	0	INDUCTOR AXIAL LEAD	33M K 2.3X3.4 L5 TP		OLA0332K018
		L702	645 047 4248	0	0	0	0	0	INDUCTOR,RADIAL LEAD	100UH 5% TP 3X5 TR5		OLR1000J0N5
		L703	645 048 0188	0	0	0	0	0	INDUCTOR,RADIAL LEAD	100UH 5% TP 3X5 TR5		OLR0102J0N5
		L704	645 048 0171	0	0	0	0	0	INDUCTOR AXIAL LEAD	8.2M K 2.3X3.4 L5 TP		OLA0821K018
		L705	645 047 4248	0	0	0	0	0	INDUCTOR,RADIAL LEAD	100UH 5% TP 3X5 TR5		OLR1000J0N5
		L7V1	645 047 9816	0	0	0	0	0	INDUCTOR,RADIAL LEAD	LF7.5N OEL 100UH 10% TP 4.8X4.		GLR1000K0P5
		L901	645 047 4200	0	0	0	0	0	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP		OLA1000K018
		L902	645 047 4200	0	0	0	0	0	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP		OLA1000K018
		L904	645 047 4200	0	0	0	0	0	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP		OLA1000K018
		L905	645 048 0881	0	0	0	0	0	COIL	BEAD CORE BFS3550R2FD8,R T/P		636-004C
		L906	645 047 4200	0	0	0	0	0	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP		OLA1000K018
		L907	645 048 0881	0	0	0	0	0	COIL	BEAD CORE BFS3550R2FD8,R T/P		636-004C
		L911	645 047 4200	0	0	0	0	0	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP		OLA1000K018
		L912	645 047 4200	0	0	0	0	0	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP		OLA1000K018
		L914	645 047 4200	0	0	0	0	0	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP		OLA1000K018
		L916	645 047 4200	0	0	0	0	0	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP		OLA1000K018
HOLDER,LED												
		LD501	645 044 0755	0	0	0	0	0	HOLDER ASSY	LED		4931R-0017A
		LD501	645 047 5474	0	0	0	0	0	HOLDER ASSY	LED(DI-CKD)LOCAL		4931R-0017C
		LED501	645 048 0850	0	0	0	0	0	LED ASSY	LTG-9935M-1 LITEON UNIVERSAL G		6301R1U002B
CONNECTOR												
		P3D01	645 044 0809	0	0	0	0	0	CONNECTOR (CIRC)	GF120-3S-TS-A LGC 3PIN 1.25MM		561-234Z
		P3D02	645 044 0922	0	0	0	0	0	CONNECTOR (CIRC)	GF105-06S-TS LG CABLE 6PIN 2MM		6630R5S010A
		P3D03	645 044 4197	0	0	0	0	0	CONNECTOR	GB201-2P-TS-B(LGC)		561-251B
		PKM01	645 047 5528	0	0	0	0	0	CONNECTOR	MA V 8283-0212 WH ELCO		561-036A
		PKM02	645 048 0768	0	0	0	0	0	CONNECTOR (CIRC)	TUC-P10X-B1,TAIKO B-B 10PIN		561-844J
		PKM02	645 048 0935	0	0	0	0	0	CONNECTOR (CIRC),BOARD TO BOAR	GB202-10S-L5 LG CABLE 10PIN 2M		6630R2S014J
		PMC01	645 044 0915	0	0	0	0	0	CONNECTOR (CIRC),BOARD TO BOAR	JE612-08 JAE EUN 8PIN 2.0MM ST		6630R-BE01H
		PMD01	645 047 5535	0	0	0	0	0	CONNECTOR (CIRC),FFC/FPC	GF120-05S-TS(LGC)		561-234D
		PMK02	645 048 0751	0	0	0	0	0	CONNECTOR (CIRC)	TUC-P10P-B1, TAIKO B-B 10PIN		561-843J
		PMK02	645 048 0928	0	0	0	0	0	CONNECTOR (CIRC),BOARD TO BOAR	GB202-10P-TS-S LG CABLE 10PIN		6630R2P011J
		PML01	645 047 5825	0	0	0	0	0	CONNECTOR (CIRC)	TMC-T02X-C1 TAIKO 2PIN 2.5MM S		6630R2S011A
		PW101	645 044 0816	0	0	0	0	0	CONNECTOR	GP390 LGC 3P 3.96 STRAIGHT SN		561-292B
PWB ASSEMBLY												
		PBM00	645 048 1048	0	0	0	0	0	PWB(PCB) ASSY,TOTAL	CCY219TF EVNT		6871R-1291D
		PBM00	645 048 1093	0	0	0	0	0	PWB(PCB) ASSY,TOTAL	CCY210TP NA3GS		6871R-2418M
		PBM00	645 048 1109	0	0	0	0	0	PWB(PCB) ASSY,TOTAL	CCY211TP NA6SS		6871R-2418N
		PBM00	645 048 1116	0	0	0	0	0	PWB(PCB) ASSY,TOTAL	CCY218TP NA3GS		6871R-2418P
		PBM00	645 048 1123	0	0	0	0	0	PWB(PCB) ASSY,TOTAL	CCY219TI NA4US		6871R-2418Q
TRANSISTOR												
		Q151	645 048 0355	0	0	0	0	0	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC		OTR127309AA
		Q152	645 048 0355	0	0	0	0	0	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC		OTR127309AA
		Q154	645 048 0348	0	0	0	0	0	TRANSISTOR	KTA1268-BL TP KEC		OTR126809BA
		Q162	645 048 0362	0	0	0	0	0	TRANSISTOR	KTC3199-BL MINI TP KEC		OTR319909AF
		Q162	645 047 4859	0	0	0	0	0	TRANSISTOR	2SC5343-L TP AUK TO92		OTR534309BA
		Q163	645 047 4781	0	0	0	0	0	TRANSISTOR	KRC101M(TO92M) 4.7-4.7 KEC		OTR101009AF
		Q163	645 047 4804	0	0	0	0	0	TRANSISTOR	SRC1201 TP AUK TO92 4.7K,4.7K		OTR120109AC
		Q301	645 048 0362	0	0	0	0	0	TRANSISTOR	KTC3199-BL MINI TP KEC		OTR319909AF
		Q302	645 048 0362	0	0	0	0	0	TRANSISTOR	KTC3199-BL MINI TP KEC		OTR319909AF
		Q303	645 048 0331	0	0	0	0	0	TRANSISTOR	KTA1267-GR MINI TP KEC		OTR126709AC
		Q304	645 048 0362	0	0	0	0	0	TRANSISTOR	KTC3199-BL MINI TP KEC		OTR319909AF
		Q305	645 048 0331	0	0	0	0	0	TRANSISTOR	KTA1267-GR MINI TP KEC		OTR126709AC
		Q306	645 048 0331	0	0	0	0	0	TRANSISTOR	KTA1267-GR MINI TP KEC		OTR126709AC
		Q307	645 048 0331	0	0	0	0	0	TRANSISTOR	KTA1267-GR MINI TP KEC		OTR126709AC
		Q308	645 048 0362	0	0	0	0	0	TRANSISTOR	KTC3199-BL MINI TP KEC		OTR319909AF
		Q309	645 048 0362	0	0	0	0	0	TRANSISTOR	KTC3199-BL MINI TP KEC		OTR319909AF
		Q310	645 048 0331	0	0	0	0	0	TRANSISTOR	KTA1267-GR MINI TP KEC		OTR126709AC
		Q311	645 047 4866	0	0	0	0	0	TRANSISTOR	2SC5344Y TP		OTR534409AA
		Q501	645 048 0362	0	0	0	0	0	TRANSISTOR	KTC3199-BL MINI TP KEC		OTR319909AF
		Q501	645 047 4859	0	0	0	0	0	TRANSISTOR	2SC5343-L TP AUK TO92		OTR534309BA
		Q502	645 048 0362	0	0	0	0	0	TRANSISTOR	KTC3199-BL MINI TP KEC		OTR319909AF
		Q502	645 047 4859	0	0	0	0	0	TRANSISTOR	2SC5343-L TP AUK TO92		OTR534309BA
		Q503	645 048 0355	0	0	0	0	0	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC		OTR127309AA
		Q506	645 048 0362	0	0	0	0	0	TRANSISTOR	KTC3199-BL MINI TP KEC		OTR319909AF
		Q506	645 047 4859	0	0	0	0	0	TRANSISTOR	2SC5343-L TP AUK TO92		OTR534309BA
		Q514	645 047 4798	0	0	0	0	0	TRANSISTOR	KRC103M-TP (KRC1203) KEC		OTR103009AE
		Q514	645 048 0324	0	0	0	0	0	TRANSISTOR	SRC1203 TP AUK TO92 22K,22K		OTR120309AE
		Q515	645 047 4798	0	0	0	0	0	TRANSISTOR	KRC103M-TP (KRC1203) KEC		OTR103009AE
		Q515	645 048 0324	0	0	0	0	0	TRANSISTOR	SRC1203 TP AUK TO92 22K,22K		OTR120309AE
		Q5G1	645 048 0362	0	0	0	0	0	TRANSISTOR	KTC3199-BL MINI TP KEC		OTR319909AF
		Q5G1	645 047 4859	0	0	0	0	0	TRANSISTOR	2SC5343-L TP AUK TO92		OTR534309BA
		Q5G2	645 048 0362	0	0	0	0	0	TRANSISTOR	KTC3199-BL MINI TP KEC		OTR319909AF
		Q5G2	645 047 4859	0	0	0	0	0	TRANSISTOR	2SC5343-L TP AUK TO92		OTR534309BA
		Q5G3	645 048 0362	0	0	0	0	0	TRANSISTOR	KTC3199-BL MINI TP KEC		OTR319909AF
		Q5G3	645 047 4859	0	0	0	0	0	TRANSISTOR	2SC5343-L TP AUK TO92		OTR534309BA
		Q5G4	645 048 0362	0	0	0	0	0	TRANSISTOR	KTC3199-BL MINI TP KEC		OTR319909AF
		Q5G4	645 047 4859	0	0	0	0	0	TRANSISTOR	2SC5343-L TP AUK TO92		OTR534309BA
		Q5G5	645 048 0362	0	0	0	0	0	TRANSISTOR	KTC3199-BL MINI TP KEC		OTR319909AF

A:VHR-M261EV,B:M271SP,C:M291EV,D:M291IR,E:M291E

RUN : 2001.02.20

NSP : Not Service Parts

S	AL	LOCA. NO.	PARTS NO.	A	B	C	D	E	DESCRIPTION	SPECIFICATION	N.S.P.	REMARKS
		Q5G5	645 047 4859					O	TRANSISTOR	2SC5343-L TP AUK TO92		0TR534309BA
		Q5P1	645 047 4781	O	O	O		O	TRANSISTOR	KRC101M(TO92M),4.7-4.7.KEC		0TR101009AF
		Q5P1	645 047 4804					O	TRANSISTOR	SRC1201 TP AUK TO92 4.7K,4.7K		0TR120109AC
		Q5P2	645 047 4781	O	O	O		O	TRANSISTOR	KRC101M(TO92M),4.7-4.7.KEC		0TR101009AF
		Q5P2	645 047 4804					O	TRANSISTOR	SRC1201 TP AUK TO92 4.7K,4.7K		0TR120109AC
		Q5P3	645 047 4781	O	O	O		O	TRANSISTOR	KRC101M(TO92M),4.7-4.7.KEC		0TR101009AF
		Q5P3	645 047 4804					O	TRANSISTOR	SRC1201 TP AUK TO92 4.7K,4.7K		0TR120109AC
		Q5P4	645 047 4781	O	O	O		O	TRANSISTOR	KRC101M(TO92M),4.7-4.7.KEC		0TR101009AF
		Q5P4	645 047 4804					O	TRANSISTOR	SRC1201 TP AUK TO92 4.7K,4.7K		0TR120109AC
		Q5P5	645 047 4781	O	O	O		O	TRANSISTOR	KRC101M(TO92M),4.7-4.7.KEC		0TR101009AF
		Q5P5	645 047 4804					O	TRANSISTOR	SRC1201 TP AUK TO92 4.7K,4.7K		0TR120109AC
		Q5P6	645 047 4781	O	O	O		O	TRANSISTOR	KRC101M(TO92M),4.7-4.7.KEC		0TR101009AF
		Q5P6	645 047 4804					O	TRANSISTOR	SRC1201 TP AUK TO92 4.7K,4.7K		0TR120109AC
		Q5P7	645 047 4781	O	O	O		O	TRANSISTOR	KRC101M(TO92M),4.7-4.7.KEC		0TR101009AF
		Q5P7	645 047 4804					O	TRANSISTOR	SRC1201 TP AUK TO92 4.7K,4.7K		0TR120109AC
		Q5P8	645 047 4798	O	O	O		O	TRANSISTOR	KRC103M-TP (KRC1203) KEC		0TR103009AE
		Q5P8	645 048 0324					O	TRANSISTOR	SRC1203 TP AUK TO92 22K,22K		0TR120309AE
		Q5P9	645 047 4798	O	O	O		O	TRANSISTOR	KRC103M-TP (KRC1203) KEC		0TR103009AE
		Q5P9	645 048 0324					O	TRANSISTOR	SRC1203 TP AUK TO92 22K,22K		0TR120309AE
		Q5S2	645 048 0362	O	O	O		O	TRANSISTOR	KTC3199-BL MINI TP KEC		0TR319909AF
		Q5S2	645 047 4859					O	TRANSISTOR	2SC5343-L TP AUK TO92		0TR534309BA
		Q701	645 048 0331					O	TRANSISTOR	KTA1267-GR MINI TP KEC		0TR126709AC
		Q901	645 047 4811	O	O	O		O	TRANSISTOR	2SA1980G TP AUK TO92		0TR198009CA
		Q901	645 048 0331					O	TRANSISTOR	KTA1267-GR MINI TP KEC		0TR126709AC
		Q901	645 047 4811					O	TRANSISTOR	2SA1980G TP AUK TO92		0TR198009CA
		Q902	645 048 0331					O	TRANSISTOR	KTA1267-GR MINI TP KEC		0TR126709AC
		Q902	645 047 4811	O	O	O		O	TRANSISTOR	2SA1980G TP AUK TO92		0TR198009CA
		Q903	645 047 4798					O	TRANSISTOR	KRC103M-TP (KRC1203) KEC		0TR103009AE
		Q903	645 048 0324	O	O	O		O	TRANSISTOR	SRC1203 TP AUK TO92 22K,22K		0TR120309AE
RESISTER												
		R101	645 047 5597	O	O	O		O	RESISTOR	2.7/2W CEMENT SMPS V		614-007A
		R101	645 048 0782					O	RESISTOR.CEMENT	2.7 OHM 2 W 5% TR RWR		614-007R
		R102	645 048 0270	O	O	O		O	RESISTOR.FIXED CARBON FILM	680K OHM 1/6 W 5.00% TA26		0RD6803F608
		R103	645 047 4293	O	O	O		O	RESISTOR.FIXED CARBON FILM	47 OHM 1/6 W 5.00% TA26		0RD0472F608
		R104	645 048 0317	O	O	O		O	RESISTOR.FIXED METAL OXIDE FIL	56K OHM 2 W 5.00% TR		0RS5602K619
		R106	645 048 0270	O	O	O		O	RESISTOR.FIXED CARBON FILM	680K OHM 1/6 W 5.00% TA26		0RD6803F608
		R109	645 048 0300	O	O	O		O	RESISTOR.FIXED METAL OXIDE FIL	0.35 OHM 2 W 5.00% TR		0RS0350K619
		R112	645 047 4347	O	O	O		O	RESISTOR.FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA26		0RD1003F608
		R115	645 047 4699	O	O	O		O	RESISTOR.DRAWING	1 OHM 1/2 W(7.0) 5.00% TR		0RF0101A619
		R116	645 047 4453	O	O	O		O	RESISTOR.FIXED CARBON FILM	220 OHM 1/6 W 5.00% TA26		0RD2200F608
		R117	645 047 4576	O	O	O		O	RESISTOR.FIXED CARBON FILM	3.9K OHM 1/6 W 5.00% TA26		0RD3901F608
		R118	645 047 4323	O	O	O		O	RESISTOR.FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		0RD1001F608
		R119	645 047 4729	O	O	O		O	RESISTOR.FIXED METAL FILM	3.3K OHM 1/6 W 1.00% TA26		0RN3301F408
		R120	645 048 0294	O	O	O		O	RESISTOR.FIXED METAL FILM	2.7K OHM 1/6 W 1.00% TA26		0RN2701F408
		R121	645 047 4415	O	O	O		O	RESISTOR.FIXED CARBON FILM	180 OHM 1/6 W 5.00% TA26		0RD1800F608
		R125	645 047 4590	O	O	O		O	RESISTOR.FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26		0RD4701F608
		R126	645 047 4323	O	O	O		O	RESISTOR.FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		0RD1001F608
		R151	645 047 4323	O	O	O		O	RESISTOR.FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		0RD1001F608
		R152	645 047 4613	O	O	O		O	RESISTOR.FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26		0RD5600F608
		R153	645 047 4323	O	O	O		O	RESISTOR.FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		0RD1001F608
		R154	645 047 4538	O	O	O		O	RESISTOR.FIXED CARBON FILM	330 OHM 1/6 W 5.00% TA26		0RD3300F608
		R155	645 047 4323	O	O	O		O	RESISTOR.FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		0RD1001F608
		R157	645 047 4323	O	O	O		O	RESISTOR.FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		0RD1001F608
		R158	645 047 4439	O	O	O		O	RESISTOR.FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA26		0RD1802F608
		R161	645 047 4590	O	O	O		O	RESISTOR.FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26		0RD4701F608
		R302	645 047 4330	O	O	O		O	RESISTOR.FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26		0RD1002F608
		R303	645 047 4439	O	O	O		O	RESISTOR.FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA26		0RD1802F608
		R304	645 047 4439	O	O	O		O	RESISTOR.FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA26		0RD1802F608
		R305	645 047 4378	O	O	O		O	RESISTOR.FIXED CARBON FILM	1.2K OHM 1/6 W 5.00% TA26		0RD1201F608
		R306	645 047 4538	O	O	O		O	RESISTOR.FIXED CARBON FILM	330 OHM 1/6 W 5.00% TA26		0RD3300F608
		R307	645 047 4538	O	O	O		O	RESISTOR.FIXED CARBON FILM	330 OHM 1/6 W 5.00% TA26		0RD3300F608
		R308	645 047 4514	O	O	O		O	RESISTOR.FIXED CARBON FILM	2.7K OHM 1/6 W 5.00% TA26		0RD2701F608
		R309	645 047 4644	O	O	O		O	RESISTOR.FIXED CARBON FILM	680 OHM 1/6 W 5.00% TA26		0RD6800F608
		R310	645 047 4613	O	O	O		O	RESISTOR.FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26		0RD5600F608
		R311	645 047 4590	O	O	O		O	RESISTOR.FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26		0RD4701F608
		R312	645 047 4422	O	O	O		O	RESISTOR.FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA26		0RD1801F608
		R313	645 048 0232	O	O	O		O	RESISTOR.FIXED CARBON FILM	390 OHM 1/6 W 5.00% TA26		0RD3900F608
		R315	645 048 0249	O	O	O		O	RESISTOR.FIXED CARBON FILM	470 OHM 1/6 W 5.00% TA26		0RD4700F608
		R316	645 048 0225	O	O	O		O	RESISTOR.FIXED CARBON FILM	150 OHM 1/6 W 5.00% TA26		0RD1500F608
		R318	645 047 4590	O	O	O		O	RESISTOR.FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26		0RD4701F608
		R319	645 047 4323	O	O	O		O	RESISTOR.FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		0RD1001F608
		R321	645 047 4323	O	O	O		O	RESISTOR.FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		0RD1001F608
		R322	645 047 4323	O	O	O		O	RESISTOR.FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		0RD1001F608
		R323	645 047 4347	O	O	O		O	RESISTOR.FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA26		0RD1003F608
		R325	645 047 4460	O	O	O		O	RESISTOR.FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA26		0RD2201F608
		R326	645 047 4378	O	O	O		O	RESISTOR.FIXED CARBON FILM	1.2K OHM 1/6 W 5.00% TA26		0RD1201F608
		R327	645 048 0249	O	O	O		O	RESISTOR.FIXED CARBON FILM	470 OHM 1/6 W 5.00% TA26		0RD4700F608
		R335	645 047 4439	O	O	O		O	RESISTOR.FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA26		0RD1802F608
		R337	645 047 4439	O	O	O		O	RESISTOR.FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA26		0RD1802F608
		R338	645 047 4453	O	O	O		O	RESISTOR.FIXED CARBON FILM	220 OHM 1/6 W 5.00% TA26		0RD2200F608
		R340	645 047 4330	O	O	O		O	RESISTOR.FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26		0RD1002F608
		R342	645 047 4491	O	O	O		O	RESISTOR.FIXED CARBON FILM	2.2M OHM 1/6 W 5.00% TA26		0RD2204F608
		R343	645 047 4606	O	O	O		O	RESISTOR.FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA26		0RD4702F608
		R344	645 047 4576	O	O	O		O	RESISTOR.FIXED CARBON FILM	3.9K OHM 1/6 W 5.00% TA26		0RD3901F608

A:VHR-M261EV,B:M271SP,C:M291EV,D:M291IR,E:M291E

RUN : 2001.02.20

NSP : Not Service Parts

S	AL	LOCA. NO.	PARTS NO.	A	B	C	D	E	DESCRIPTION	SPECIFICATION	N.S.P.	REMARKS
		R345	645 047 4651	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	6.8K OHM 1/6 W 5.00% TA26		ORD6801F608
		R346	645 047 4378	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	1.2K OHM 1/6 W 5.00% TA26		ORD1201F608
		R347	645 047 4507	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	270 OHM 1/6 W 5.00% TA26		ORD2700F608
		R348	645 047 4545	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA26		ORD3301F608
		R349	645 047 4590	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26		ORD4701F608
		R351	645 047 4477	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	22K OHM 1/6 W 5.00% TA26		ORD2202F608
		R352	645 047 4422	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA26		ORD1801F608
		R353	645 047 4675	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	8.2K OHM 1/6 W 5.00% TA26		ORD8201F608
		R354	645 047 4385	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	12K OHM 1/6 W 5.00% TA26		ORD1202F608
		R355	645 047 4569	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	330K OHM 1/6 W 5.00% TA26		ORD3303F608
		R356	645 048 0225	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	150 OHM 1/6 W 5.00% TA26		ORD1500F608
		R357	645 047 4323	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		ORD1001F608
		R358	645 047 4521	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	27K OHM 1/6 W 5.00% TA26		ORD2702F608
		R359	645 047 4460	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA26		ORD2201F608
		R360	645 047 4590	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26		ORD4701F608
		R361	645 047 4330	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26		ORD1002F608
		R362	645 047 4477	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	22K OHM 1/6 W 5.00% TA26		ORD2202F608
		R363	645 047 4613	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26		ORD5600F608
		R364	645 047 4293	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	47 OHM 1/6 W 5.00% TA26		ORD0472F608
		R365	645 047 4323	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		ORD1001F608
		R366	645 047 4279	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	2.2 OHM 1/6 W 5.00% TA26		ORD0221F608
		R3B1	645 047 4590	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26		ORD4701F608
		R501	645 047 4316	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26		ORD1000F608
		R502	645 047 4316	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26		ORD1000F608
		R503	645 048 0263	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	68K OHM 1/6 W 5.00% TA26		ORD6802F608
		R504	645 047 4323	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		ORD1001F608
		R505	645 047 4323	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		ORD1001F608
		R506	645 047 4323	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		ORD1001F608
		R507	645 047 4323	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		ORD1001F608
		R508	645 047 4576	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	3.9K OHM 1/6 W 5.00% TA26		ORD3901F608
		R510	645 047 4460	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA26		ORD2201F608
		R511	645 047 4323	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		ORD1001F608
		R512	645 047 4323	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		ORD1001F608
		R513	645 047 4347	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA26		ORD1003F608
		R514	645 048 0218	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	120K OHM 1/6 W 5.00% TA26		ORD1203F608
		R515	645 047 4538	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	330 OHM 1/6 W 5.00% TA26		ORD3300F608
		R516	645 048 0256	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	470K OHM 1/6 W 5.00% TA26		ORD4703F608
		R517	645 047 4354	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	1M OHM 1/6 W 5.00% TA26		ORD1004F608
		R518	645 047 4613	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26		ORD5600F608
		R519	645 047 4521	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	27K OHM 1/6 W 5.00% TA26		ORD2702F608
		R520	645 047 4323	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		ORD1001F608
		R521	645 047 4392	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	1.5K OHM 1/6 W 5.00% TA26		ORD1501F608
		R522	645 047 4323	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		ORD1001F608
		R523	645 047 4545	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA26		ORD3301F608
		R524	645 047 4705	0	0	0	0	0	RESISTOR, DRAWING	6.8 OHM 1 W 5.00% TR		ORF0681J619
		R525	645 047 4620	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA26		ORD5601F608
		R526	645 047 4620	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA26		ORD5601F608
		R527	645 047 4613	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26		ORD5600F608
		R528	645 047 4323	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		ORD1001F608
		R529	645 047 4330	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26		ORD1002F608
		R530	645 047 4286	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	22 OHM 1/6 W 5.00% TA26		ORD0222F608
		R531	645 047 4330	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26		ORD1002F608
		R532	645 047 4620	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA26		ORD5601F608
		R533	645 047 4422	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA26		ORD1801F608
		R534	645 047 4354	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	1M OHM 1/6 W 5.00% TA26		ORD1004F608
		R535	645 048 0256	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	470K OHM 1/6 W 5.00% TA26		ORD4703F608
		R542	645 047 4460	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA26		ORD2201F608
		R543	645 047 4316	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26		ORD1000F608
		R544	645 047 4590	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26		ORD4701F608
		R545	645 047 4460	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA26		ORD2201F608
		R546	645 047 4620	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA26		ORD5601F608
		R547	645 047 4385	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	12K OHM 1/6 W 5.00% TA26		ORD1202F608
		R548	645 047 4347	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	100K OHM 1/6 W 5.00% TA26		ORD1003F608
		R550	645 047 4453	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	220 OHM 1/6 W 5.00% TA26		ORD2200F608
		R553	645 047 4453	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	220 OHM 1/6 W 5.00% TA26		ORD2200F608
		R555	645 047 4453	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	220 OHM 1/6 W 5.00% TA26		ORD2200F608
		R556	645 047 4477	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	22K OHM 1/6 W 5.00% TA26		ORD2202F608
		R557	645 047 4521	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	27K OHM 1/6 W 5.00% TA26		ORD2702F608
		R558	645 047 4477	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	22K OHM 1/6 W 5.00% TA26		ORD2202F608
		R559	645 047 4590	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26		ORD4701F608
		R560	645 047 4590	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26		ORD4701F608
		R561	645 047 4613	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26		ORD5600F608
		R562	645 047 4613	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26		ORD5600F608
		R563	645 047 4620	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA26		ORD5601F608
		R564	645 047 4521	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	27K OHM 1/6 W 5.00% TA26		ORD2702F608
		R567	645 047 4422	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA26		ORD1801F608
		R568	645 048 0270	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	680K OHM 1/6 W 5.00% TA26		ORD6803F608
		R569	645 047 4354	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	1M OHM 1/6 W 5.00% TA26		ORD1004F608
		R570	645 047 4590	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26		ORD4701F608
		R575	645 047 4590	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26		ORD4701F608
		R576	645 047 4590	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26		ORD4701F608
		R577	645 047 4590	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26		ORD4701F608
		R578	645 047 4590	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	4.7K OHM 1/6 W 5.00% TA26		ORD4701F608
		R579	645 047 4637	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	56K OHM 1/6 W 5.00% TA26		ORD5602F608
		R580	645 048 0201	0	0	0	0	0	RESISTOR, FIXED CARBON FILM	10 OHM 1/6 W 5.00% TA26		ORD0102F608

A:VHR-M261EV,B:M271SP,C:M291EV,D:M291IR,E:M291E

RUN : 2001.02.20

NSP : Not Service Parts

S	AL	LOCA. NO.	PARTS NO.	A	B	C	D	E	DESCRIPTION	SPECIFICATION	N.S.P.	REMARKS
		R581	645 048 0263	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	68K OHM 1/6 W 5.00% TA26		0RD6802F608
		R583	645 047 4330	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26		0RD1002F608
		R586	645 047 4460	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA26		0RD2201F608
		R589	645 047 4354	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	1M OHM 1/6 W 5.00% TA26		0RD1004F608
		R5B5	645 047 4316	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26		0RD1000F608
		R5C5	645 047 4323	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		0RD1001F608
		R5C6	645 047 4323	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		0RD1001F608
		R5C7	645 047 4323	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		0RD1001F608
		R5C9	645 047 4330	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26		0RD1002F608
		R5E7	645 047 4330	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26		0RD1002F608
		R5E8	645 047 4330	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26		0RD1002F608
		R5G1	645 047 4613	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26		0RD5600F608
		R5G2	645 047 4613	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26		0RD5600F608
		R5G3	645 047 4613	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26		0RD5600F608
		R5G4	645 047 4613	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26		0RD5600F608
		R5G5	645 047 4613	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26		0RD5600F608
		R5P1	645 047 4286	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	22 OHM 1/6 W 5.00% TA26		0RD0222F608
		R5P2	645 047 4286	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	22 OHM 1/6 W 5.00% TA26		0RD0222F608
		R5P3	645 047 4286	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	22 OHM 1/6 W 5.00% TA26		0RD0222F608
		R5P4	645 047 4286	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	22 OHM 1/6 W 5.00% TA26		0RD0222F608
		R5P5	645 047 4286	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	22 OHM 1/6 W 5.00% TA26		0RD0222F608
		R5P6	645 047 4286	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	22 OHM 1/6 W 5.00% TA26		0RD0222F608
		R5P7	645 047 4286	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	22 OHM 1/6 W 5.00% TA26		0RD0222F608
		R5P8	645 047 4286	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	22 OHM 1/6 W 5.00% TA26		0RD0222F608
		R5P9	645 047 4286	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	22 OHM 1/6 W 5.00% TA26		0RD0222F608
		R5R1	645 047 4538	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	330 OHM 1/6 W 5.00% TA26		0RD3300F608
		R5S2	645 047 4651	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	6.8K OHM 1/6 W 5.00% TA26		0RD6801F608
		R5T1	645 047 4422	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA26		0RD1801F608
		R5T10	645 047 4392	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5.00% TA26		0RD1501F608
		R5T2	645 047 4392	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5.00% TA26		0RD1501F608
		R5T3	645 047 4460	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA26		0RD2201F608
		R5T4	645 047 4514	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	2.7K OHM 1/6 W 5.00% TA26		0RD2701F608
		R5T5	645 047 4576	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5.00% TA26		0RD3901F608
		R5T9	645 047 4422	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA26		0RD1801F608
		R5V1	645 047 4460	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA26		0RD2201F608
		R705	645 047 4613	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26		0RD5600F608
		R706	645 047 4453	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5.00% TA26		0RD2200F608
		R707	645 047 4453	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5.00% TA26		0RD2200F608
		R7M1	645 047 4323	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		0RD1001F608
		R7M2	645 047 4453	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5.00% TA26		0RD2200F608
		R7M3	645 047 4422	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA26		0RD1801F608
		R7M4	645 047 4422	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	1.8K OHM 1/6 W 5.00% TA26		0RD1801F608
		R7M5	645 047 4453	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5.00% TA26		0RD2200F608
		R7V4	645 047 4460		0	0	0	0	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5.00% TA26		0RD2201F608
		R7V5	645 047 4330		0	0	0	0	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26		0RD1002F608
		R7V6	645 047 4620		0	0	0	0	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5.00% TA26		0RD5601F608
		R7V7	645 047 4316		0	0	0	0	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26		0RD1000F608
		R7V8	645 047 4316		0	0	0	0	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26		0RD1000F608
		R901	645 047 4309	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	75 OHM 1/6 W 5.00% TA26		0RD0752F608
		R902	645 047 4309	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	75 OHM 1/6 W 5.00% TA26		0RD0752F608
		R905	645 047 4613	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26		0RD5600F608
		R906	645 047 4613	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26		0RD5600F608
		R909	645 047 4613		0	0	0	0	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26		0RD5600F608
		R911	645 047 4309		0	0	0	0	RESISTOR,FIXED CARBON FILM	75 OHM 1/6 W 5.00% TA26		0RD0752F608
		R912	645 047 4309		0	0	0	0	RESISTOR,FIXED CARBON FILM	75 OHM 1/6 W 5.00% TA26		0RD0752F608
		R915	645 047 4613	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26		0RD5600F608
		R916	645 047 4613	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	560 OHM 1/6 W 5.00% TA26		0RD5600F608
		R933	645 047 4385	0					RESISTOR,FIXED CARBON FILM	12K OHM 1/6 W 5.00% TA26		0RD1202F608
		R934	645 047 4330	0					RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5.00% TA26		0RD1002F608
		R960	645 047 4545	0					RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA26		0RD3301F608
		R961	645 047 4545	0					RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5.00% TA26		0RD3301F608
		R962	645 047 4316	0					RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26		0RD1000F608
		R963	645 047 4316	0					RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5.00% TA26		0RD1000F608
		R964	645 048 0287	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	820 OHM 1/6 W 5.00% TA26		0RD8200F608
		R965	645 047 4323	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5.00% TA26		0RD1001F608
		R966	645 047 4378	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5.00% TA26		0RD1201F608
		R967	645 047 4439	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	18K OHM 1/6 W 5.00% TA26		0RD1802F608
		R9M1	645 047 4606	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA26		0RD4702F608
		R9M2	645 047 4576	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5.00% TA26		0RD3901F608
		R9S1	645 047 4606	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5.00% TA26		0RD4702F608
		R9S2	645 047 4576	0	0	0	0	0	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5.00% TA26		0RD3901F608
REMOTE CONTROL RECEIVER												
		RC501	645 047 5887	0	0	0	0	0	REMOTE CONTROLLER RECEIVER	TSOP2838WE1 TEMIC 19MM 37.9KHZ		6712R1938GA
SENSOR												
		IC102	645 048 0911	0	0	0	0	0	SENSOR,PHOTO	KP1010 COSMO =PC817 PHOTOCOUP		6500RDB011A
		RS501	645 044 0847	0	0	0	0	0	SENSOR	GP1S566 SHARP D-33 REEL SENSOR		6500RAB002A
		RS502	645 044 0847	0	0	0	0	0	SENSOR	GP1S566 SHARP D-33 REEL SENSOR		6500RAB002A
SWITCH												
		CS501	645 044 0861	0	0	0	0	0	SWITCH,DETECTOR	MPU10252MLB4 MIC NON 5V 0.01A		6600RDB004C
		MS501	645 044 0878	0	0	0	0	0	SWITCH,DETECTOR	MMS00420ZMBO MIC NON 5V 1MA VE		6600RPPY001B
		SW5T1	645 047 5504	0	0	0	0	0	SWITCH,DETECTOR	THVV951BAA POSTECH NON 12V 5A		556-213C
		SW5T10	645 047 5504	0	0	0	0	0	SWITCH,DETECTOR	THVV951BAA POSTECH NON 12V 5A		556-213C
		SW5T14	645 047 5504	0	0	0	0	0	SWITCH,DETECTOR	THVV951BAA POSTECH NON 12V 5A		556-213C

A:VHR-M261EV,B:M271SP,C:M291EV,D:M291IR,E:M291E

RUN : 2001.02.20

NSP : Not Service Parts

S	AL	LOCA. NO.	PARTS NO.	A	B	C	D	E	DESCRIPTION	SPECIFICATION	N.S.P.	REMARKS
			645 047 5511	O	O	O	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A		556-219B
			645 047 5511	O	O	O	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A		556-219B
			645 047 5511	O	O	O	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A		556-219B
			645 047 5511	O	O	O	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A		556-219B
			645 047 5511	O	O	O	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A		556-219B
			645 047 5511	O	O	O	O	O	SWITCH,TACT	THVV502GAA POSTECH NON 12V 5A		556-219B
TRANSISTOR,TU,RESONATOR,CRYSTAL,X-TAL												
		T101	645 048 0904	O	O	O	O	O	TRANSFORMER,SMPS	SJE-015G/SHT-015G SJ/SH/CS/LSE		642-015G
		VR501	645 047 5580	O	O	O	O	O	RESISTOR SEMI-FIXED	RH063MCJ5R (220K)		613-032W
		X301	645 048 0812	O	O	O	O	O	CRYSTAL,STANDARD	H49U KJE RADIAL 4.433709MHZ 15		6202R2443AC
		X501	645 048 0829	O	O	O	O	O	CRYSTAL	ATS TAEIL RADIAL 10000000HZ 30		6202R31001E
		X502	645 048 0737	O	O	O	O	O	X-TAL	32.768KHZ SEIKO		529-001K
ZENER DIODE												
		ZD501	645 047 4095	O	O	O	O	O	DIODE,ZENER	GDZJ6.2C 26MM TP GRANDE DO34 0		0DZ622609CA
		ZD503	645 047 4095	O	O	O	O	O	DIODE,ZENER	GDZJ6.2C 26MM TP GRANDE DO34 0		0DZ622609CA



SANYO Electric Co.,Ltd.
Osaka, Japan