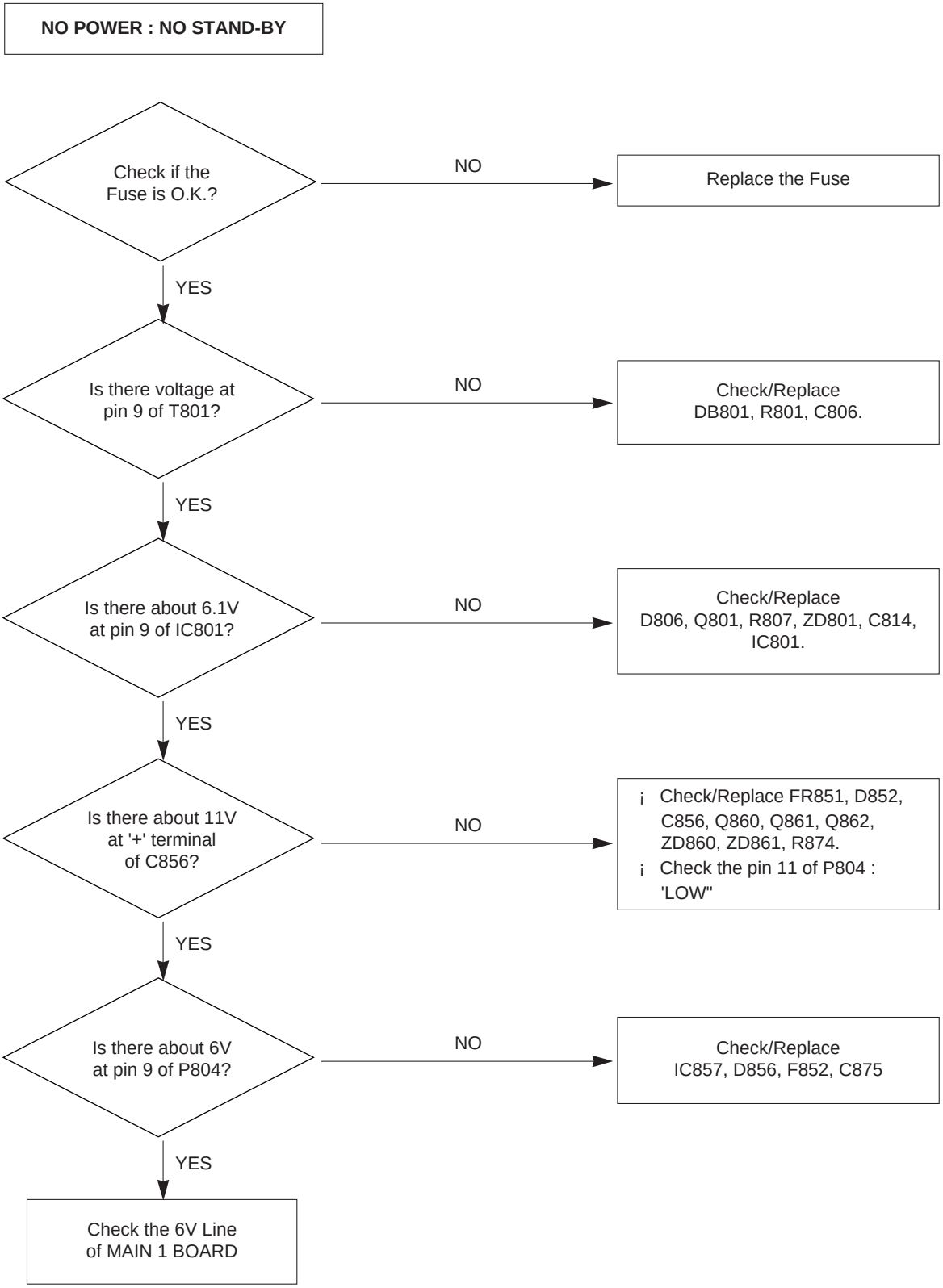
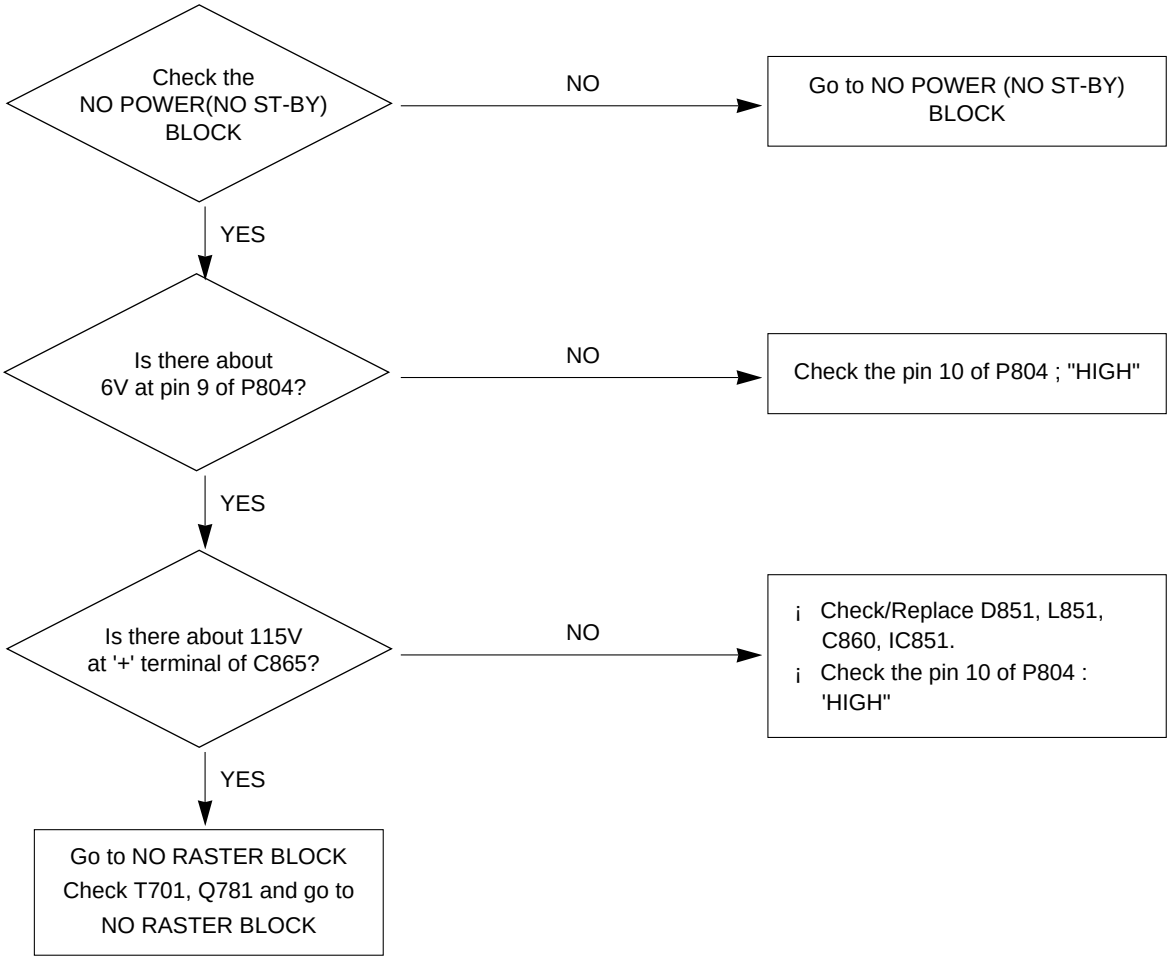
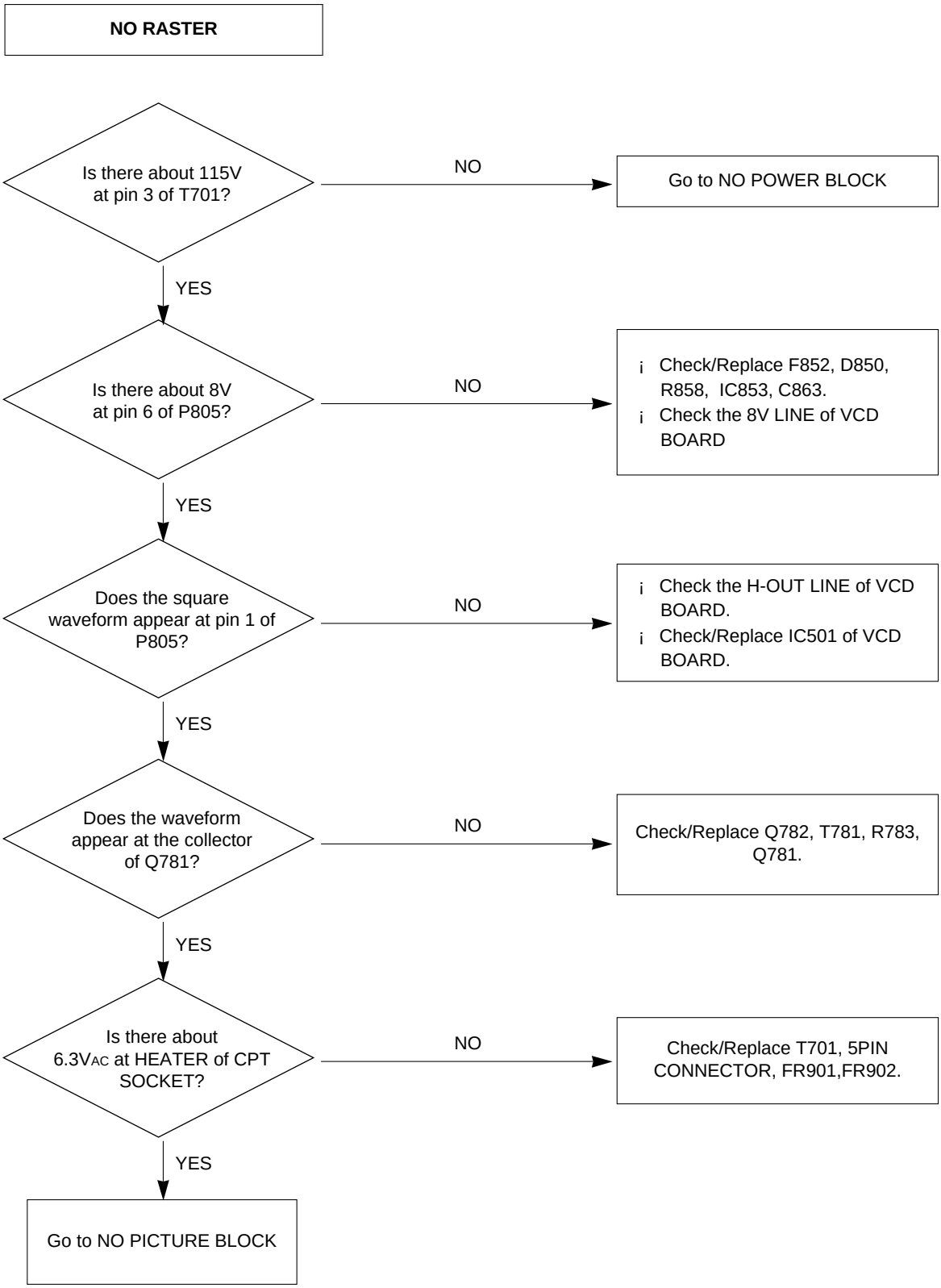
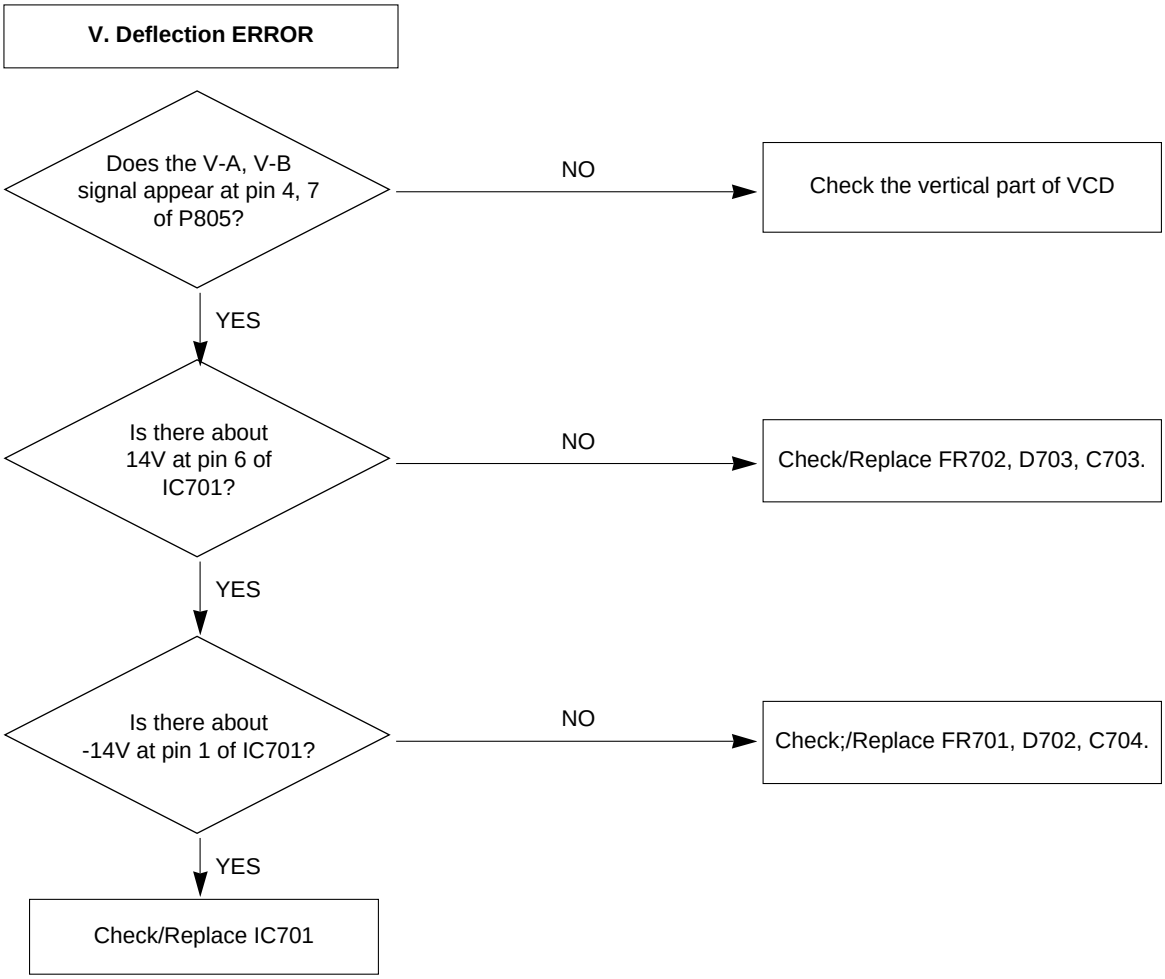
TROUBLE SHOOTING

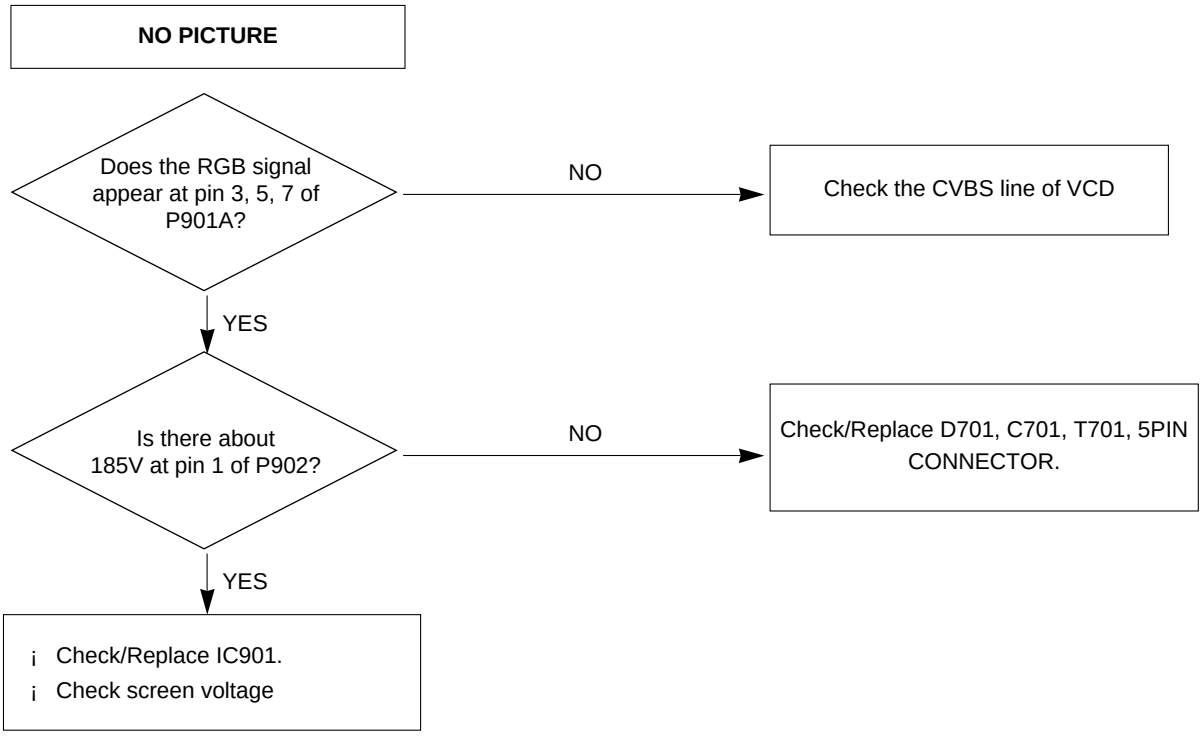


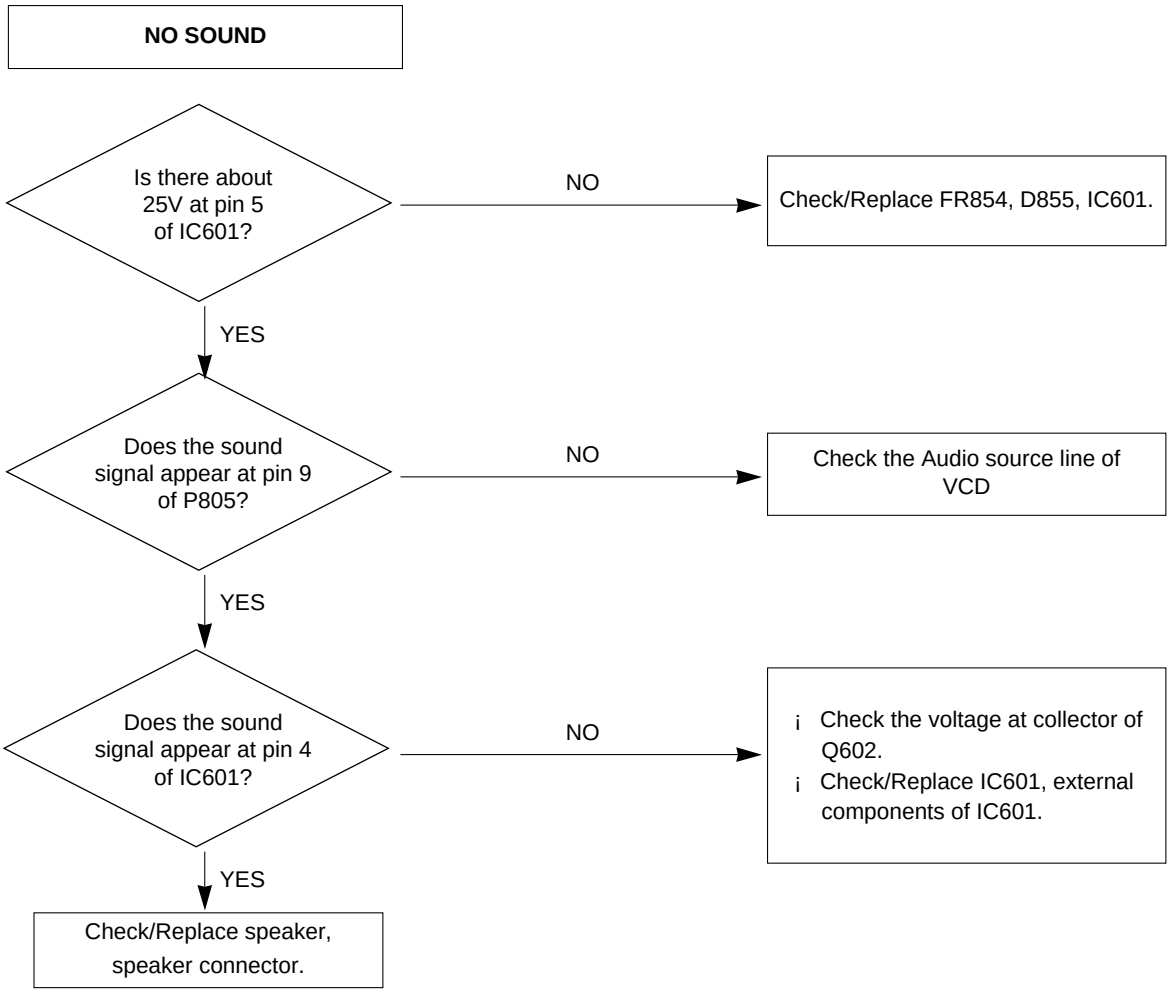
NO POWER : NO MONITOR ON




NO RASTER
Is there about 115V at pin 3 of T701?
NO
Go to NO POWER BLOCK
YES
Is there about 8V at pin 6 of P805?
NO
¡ Check/Replace F852, D850, R858, IC853, C863.
¡ Check the 8V LINE of VCD BOARD
YES
Does the square waveform appear at pin 1 of P805?
NO
¡ Check the H-OUT LINE of VCD BOARD.
¡ Check/Replace IC501 of VCD BOARD.
YES
Does the waveform appear at the collector of Q781?
NO
Check/Replace Q782, T781, R783, Q781.
YES
Is there about 6.3VAC at HEATER of CPT SOCKET?
NO
Check/Replace T701, 5PIN CONNECTOR, FR901,FR902.
YES
Go to NO PICTURE BLOCK


V. Deflection ERROR
Does the V-A, V-B signal appear at pin 4, 7 of P805?
NO
Check the vertical part of VCD
YES
Is there about 14V at pin 6 of IC701?
NO
Check/Replace FR702, D703, C703.
YES
Is there about -14V at pin 1 of IC701?
NO
Check;/Replace FR701, D702, C704.
YES
Check/Replace IC701


NO PICTURE
Does the RGB signal appear at pin 3, 5, 7 of P901A?
NO
Check the CVBS line of VCD
YES
Is there about 185V at pin 1 of P902?
NO
Check/Replace D701, C701, T701, 5PIN CONNECTOR.
YES
¡ Check/Replace IC901.
¡ Check screen voltage


NO SOUND
Is there about 25V at pin 5 of IC601?
NO
Check/Replace FR854, D855, IC601.
YES
Does the sound signal appear at pin 9 of P805?
NO
Check the Audio source line of VCD
YES
Does the sound signal appear at pin 4 of IC601?
NO
¡ Check the voltage at collector of Q602.
¡ Check/Replace IC601, external components of IC601.
YES
Check/Replace speaker, speaker connector.

ADJUSTMENT INSTRUCTIONS

1. APPLICATION RANGE

This specification is applicable to tvcr¡sl (mv-025chassis) manufactured in the tv factory
Or the approved site.

1.1 MAIN PRUDUCTION FORM
-. SET (O)
-. SKD (O)
-. CKD (0)

2. DESIGNATION

2.1. Hot GND & Cold GND must be connected separately to prevent electric shock and to protect equipments because this chassis is an insulation chassis.

2.2. The adjustment must be done by the exact sequence.
But, it can be changeable within the allowable margin of error

2.3. Adjust surrounding condition: unless otherwise noted, adjust to the following condition

Surrouding Temperature: 25 ¡ ¡ 5 ¡
Reality Humidity : 60 % ¡ 20 %
Embedded Component Body Temperature In PCB: 25 ¡ ¡ 5 ¡

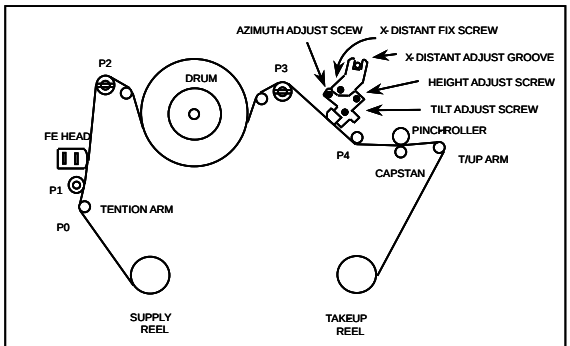
2.4. The AC line voltage of TV must be maintained at 230V(200~250) @50/60 Hz

2.5. Before any adjustment, TV set must have warming time for 20 minutes

2.6. Necessary instrument
- Multimeter (ADJUSTMENT/ASSEMBLY Line)
  Max Input Current : over 1A / Max Input Voltage : 500Vdc
  Measurement Range : 10Vdc ¡ ›100Vdc / Accuracy : 0.03%
- Oscilloscope : (ADJUSTMENT/ASSEMBLY Line)
  Frequency Band : over 20§ /Input Impedance : OVER 1§
  Input Capacitance : below 30pF / Max Input Voltage : 250V
- 10:1 PROBE

2.7. SIGNAL
Unless otherwise noted,INPUT THE STANDARD COLOR SIGNAL 60¡ ›80 dBu.
The standard color signal is LG¡sl standard digital signal.
It refers the standard color signal to LG standard signal.
If LG standard signal is a criterion,PAL standard signal is PAL-B/G 05 CH and SECAM standard signal is SECAM 04CH or 40CH.
LG standard color signal has priority to others and other vendors which use different equipment from LG can use the PHILIPS DIGITAL PATTERN or COLOR BAR PATTERN or CIRCLE PATTERN depend on itmes.

3. DECK LINE ADJ.(VCR DECK/CIRCUIT ADJ.)



ADJUST PART LOCATION

3.1. P2/P3 TEMPORARY ADJUSTMENT

3.1.1. Necessary Instruments
1. PAL SP Normal TAPE
2. OSCILLOSCOPE
3. 10:1 PROBE two
4. SPECIAL NUT DRIVER (P2/P3 FOR ADJUSTMENT)

3.1.2. ADJUSTMENT
1. Play the PAL SP NORMAL TAPE
2. Connect the oscilloscope(CH-1) to J123(H/SW) of main PCB
3. Connect the oscilloscope(CH-2) to J158(RF) of main PCB
4. With observing the RF envelope waveform, adjust P2, P3 until it becomes the waveform C
5. Check the envelope waveform is in the maximum size by pressing the TRK UP(+), down(-) button

3.2. CTL/AUDIO LEVEL ADJUSTMENT

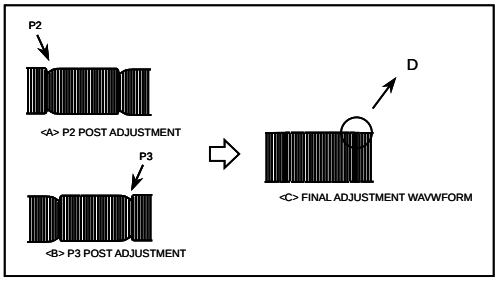


FIGURE 2> P2/P3 ADJUSTMENT WAVEFORM

3.2.1. Necessary Instruments
1. CTL TAPE
2. PAL SP Normal TAPE(AUDIO LEVEL FOR ADJUSTMNENT)
3. OSCILLOSCOPE
4. 10:1 PROBE TWO PIECES
5. RMS METER(AUDIO LEVEL FOR ADJUSTMENT)

3.2.2 CTL ADJUSTMENT
THIS ADJUSTMENT MUST BE DONE WHEN THE UNCONTROLLED DECK IS WAREHOUSED.

1. Connect the oscilloscope to J101(CTL)
2. After playing the CTL control tape, make sure the CTL waveform range is from 1.5 :1 to 2.5 : 1. If it is out of range ,

adjust CTL waveform to the following procedures.

A. If is over 2.5 :1, lower the head height.

After turning the height adjust screw counter-clockwise to adjust its level from 1.5 : 1 to 2 : 1.

Check the tape location at P4. Readjust the TILT.(2:1)

B. If is under 1.5:1, heighten the head height.

After turning the height, adjust the screw clockwise to adjust its level from 2 : 1 to 2.5 : 1.

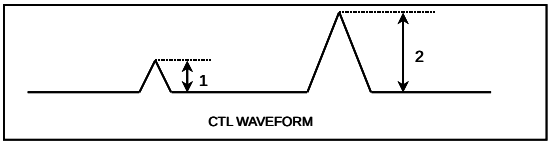
Check the tape location of P4. Readjust the TILT.(2:1)

3. Play the standard tape and adjust very carefully the azimuth screw right and left by using the oscilloscope and level-meter to maximize the audio sound.

Adjust the azimuth screw & the height adjust screw at the same time because they have mutual relationship. (Check CTL again after the adjustment)

*A/C head adjustment order

Height adjust screw¡ check the TILT¡ azimuth screw¡ check CTL



CTL WAVEFORM

3.2.3 AUDIO LEVEL CHECKING AND ADJUSTMENT

1. Connect¡ +¡-terminal of RMS meter (auto level meter) to J108 on the main PCB Audio output and¡ _¡-terminal to GND.
2. Check that if audio level of RMS meter satisfies with the spec,If audio sound is weak, adjust the A/C head azimuth screw.
3. Audio level spec

   1K :0.5 ¡ 0.1Vrms

   6K :1KHz ¡ 1.5dB

3.3. X-DISTANT/P2,P3 ADJUSTMENT

3.3.1. NECESSARY INSTRUMENT

1. SP PAL TAPE
2. OSCILLOSCOPE
3. 10:1 PROBE : 2 PIECES
4. SPEACIAL DRIVER FOR ADJUSTMENT(P2,P3,X-DISTANT(NUT),AUDIO(NUT))
5. RMS METER(AUDIO LEVEL METER)

3.3.2. ADJUSTMENT PREPARATION

1. Connect oscilloscope(CH-1) to J123(H/SW) on main PCB. (Use for trigger of CH-2)
2. Connect oscilloscope(CH-2) to J158(RF) on main PCB. (Use waveform of CH-2)
3. Play by inserting SP PAL TAPE (2hd:normal tape)
4. After the picture is appeared, make initial condition by pressing the tracking adjustment up(+) button of the remote controller.

3.3.3. X-DISTANCE ADJUSTMENT

1. Turn the X-distant adjust groove of the deck right and left to maximize the scope waveform.
2. Check that if waveform satisfies with the linearity by pressing TRK Up(+) and Down(-) button
3. Tighten the X-distant adjust screw.

3.3.4. P2/P3(RF LINEARITY) CHECK & ADJUSTMENT

1. Adjust p2 & p3 so that the the RF envelope waveform of the oscilloscope becomes C in figure 2.
2. Check if the envelope waveform becomes maximum by pressing TRK Up(+),Down(-) button onestep.

3.4 PG ADJUSTMENT

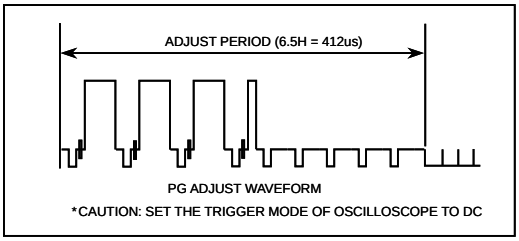
Adjust it after finishing controlling the Deck.

3.4.1.NECESSARY INSTRUMENT

1. SP PAL TAPE
2. OSCILLOSCOPE
3. 10 : 1 PROBE 2 PIECES

3.4.2. ADJUSTMENT

1. Insert and play the SP PAL TAPE
2. Connect the oscilloscope(CH-1) to H/SW(J123) on the main PCB and trigger in setting the VOL/DIV to 1V range.
3. Connect the oscilloscope(CH-2) to video out(J173) on the main PCB and set the VOL/DIV to 500mV range.
4. Set the TIME/DIV of oscilloscope to 50us range.
5. Adjust the falling edge(412us ¡ 20us) of vertical sync in the video signal by varying VR01.



PG ADJUST WAVEFORM

*CAUTION: SET THE TRIGGER MODE OF OSCILLOSCOPE TO DC

4.ASSEMBLY LINE ADJUSTMENT

4.1. RF AGC ADJ.(APPLYING THE W/S TUNER)

4.1.1. NECESSARY INSTRUMENT : DIGITAL MULTIMETER

4.1.2. ADJUSTMENT PREPARATION

1. HEAT-RUN at least 15 minutes before adjustment.
2. Input the PAL DIGITAL PATTERN(EU05); The intensity of electric field for the applied tuner refers to the below data.
3. Connect the DIGITAL MULTIMETER to TP-AGC(J335) of MAIN1.

4.1.3. ADJUSTMENT

1. Press the SVC key of the transmitter and select¡ AGC¡ -of the SVC MENU using PR+/- key.
2. Adjust it by the below data varying VOL+/- key.

TUNER	SETTING & ADJUSTMENT	
6700VPF009V	Electric fields strenth	70dBu ¡ 0.2dBu
	AGC Voltage	2.7¡ 0.05Vdc
6700VMF001H 6700VPF009Q	AGC Voltage	AGC not adjust.

4.2. FOCUS ADJUSTMENT

4.2.1. Receive the standard color signal.

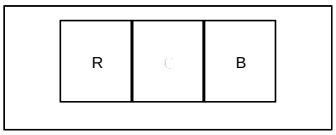
4.2.2. Let the picture be the most clear by the criterion of the vertical line of it, varying the focus V/R of FBT.

4.3. PURITY AND CONVERGENCE ADJUSTMENT

: Warm up the TV set at least 15 minutes before adjustment.

4.3.1. PURITY ADJUSTMENT

1. After degaussing the CPT with using the degaussing coil, set the picture at Standard ON.
2. Receive the raster signal or E50CH(red pattern) from a pattern generator.
3. Move the DY toward CPT PANEL to put the picture like the figure 5.
4. Turn the purity magnet(the second pole magnet) to let red color located at the center of picture. At the same time let color-line located at the center vertically.
5. After finishing the second pole magnet adjustment, fix it temporarily by the lock ring.
6. Let the picture became uniform red color by moving the DY slowly backward and then tighten the fixing screw. (Check the slope)

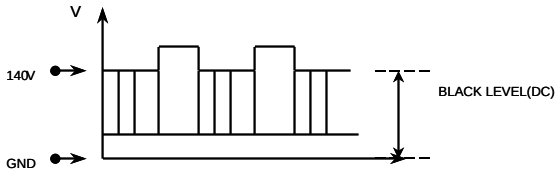


< figure 5 >

PICTURE STANDARD ON
CONTRAST : 85%
BRIGHTNESS : 70%
COLOUR : 50%

4.4. SCREEN ELECTRIC VOLTAGE

1. ONPUT PAL DIGITAL PATTERN(EU05 CH)
2. SELECT CHANNEL 0
3. CONNECT THE PROBE OF OSCILLOSCOPE TO THE RK OF CPT PCB
4. SET the oscilloscope TO 50V/DIV, 20us/DIV(using 10:1 Prpbe) and after putting the GND ling upon the lowest grid line of the scope by pushing the GND button, enter into DC mode.



* Adjust screen volume of FBT so that the waveform is the same as below figure.

No	Adjust Voltage	Remark Note
1	140V ¡ 3V	
2	130V ¡ 3V	

4.5 WHITE BALANCE

4.5.1 NECESSARY INSTRUMENT

: WHITE BALANCE METER

4.5.2 ADJUST PREPARATION

1. Adjust it after warming up the meter over 15 minutes.
2. Input the picture with the white signal and black signal at upper and lower side each in a standard of the CPT ¡ 5 horizontal center.
3. Set this picture in the status of standard ON.

4.5.3 ADJUSTMENT

: Push the SVC key of a transmitter which is possible to control the SVC and adjust the RG and BG varying the VOL +/-, in the status of the initial data 32 of the CG in SVC MENU on the screen. (This chassis adjusts only the high light.)

Model(14/20/21)	X	Y	Color Temperature
EU	288	295	9000K
NON-EU	281	288	10000K

Model(15 FLAT)	X	Y	Color Temperature
EU	288	295	9000K
NON-EU	272	288	12000K

4.6. DEFLECTION DATA ADJUSTMENT

4.6.1. INPUT PAL DIGITAL PATTERN(EU05CH)

4.6.2. PRESS SVC KEY ON THE SERVICE REMOTE CONTROLLER AND SELECT LINE SERVICE2 MODE ADJUSTABLE ITEM IS SELECTED BY CH+/- KEY, VARIABLE ITEM IS SELECTED BY VOL +/- KEY.

4.6.3. DEFLECTION EARLY ESTABLISHMENT DATA

STATUS	Adjust Cintents	Y	Y	Y	Y
V-SLP	Vertical Slope	25	25	25	25
V-AMP	Vertical Amplitude	31	31	31	31
V-SFT	Vertical Shift	32	32	32	32
H-SFT	Horizontal Shift	32	32	32	32
S-COL	Vertical S-correction	15	15	15	15

4.6.4.VERTICAL SLOPE, V-SLP ADJUSTMENT

: Select V-SLP mode and adjust until horizontal center line of the large circle coincides with blanking line

4.6.5. VERTICAL AMPLITUDE, V-AMP ADJUSTMENT

: Select V-AMP mode , and adjust until the upper and lower end of the large circle reach 5§fi inside from the effective area of CPT.

4.6.6. VERTIVAL SHIFT, V-SFT ADJUSTMENT

: Select V-SFT mode and adjust until the horizontal center coincides with the vertical sign Slot mark of CPT.

4.6.7. HORIZONTAL SHIFT, H-SFT ADJUSTMENT

: Select H-SFT mode and adjust until the vertical center coincides with horizontal sign slot mark of CPT.

4.6.8. VERTICAL S-CORRECTION, S-COL ADJUSTMENT

: Select S-COL mode and adjust until the grid of cross hatch pattern is even all over the screen.

4.7. CDL DATA ADJUSTMENT

1. INPUT PAL DIGITAL PATTERN(EU05CH).
2. PRESS SVC KEY ON THE SERVICE and SELECT LINE SERVICE1 MODE
   Adjustable item is selected by CH+/- key,variable item is selected by VOL +/- key
3. INITIAL ESTABLISHMENT DATA

STATUS	CONTENTS	21”	20”	14”	15”
AGC	RF Gain	15	15	15	15
GG	Green Drive Gain	32	32	32	32
RG	Red Drive Gain	32	32	32	32
BG	Blue Drive Gain	32	32	32	32
PEAK	Peaking Control	17	17	17	17
CDL	Cathode Drive Level	12	12	08	10
2nd SIF	2nd SIF	0	0	0	0

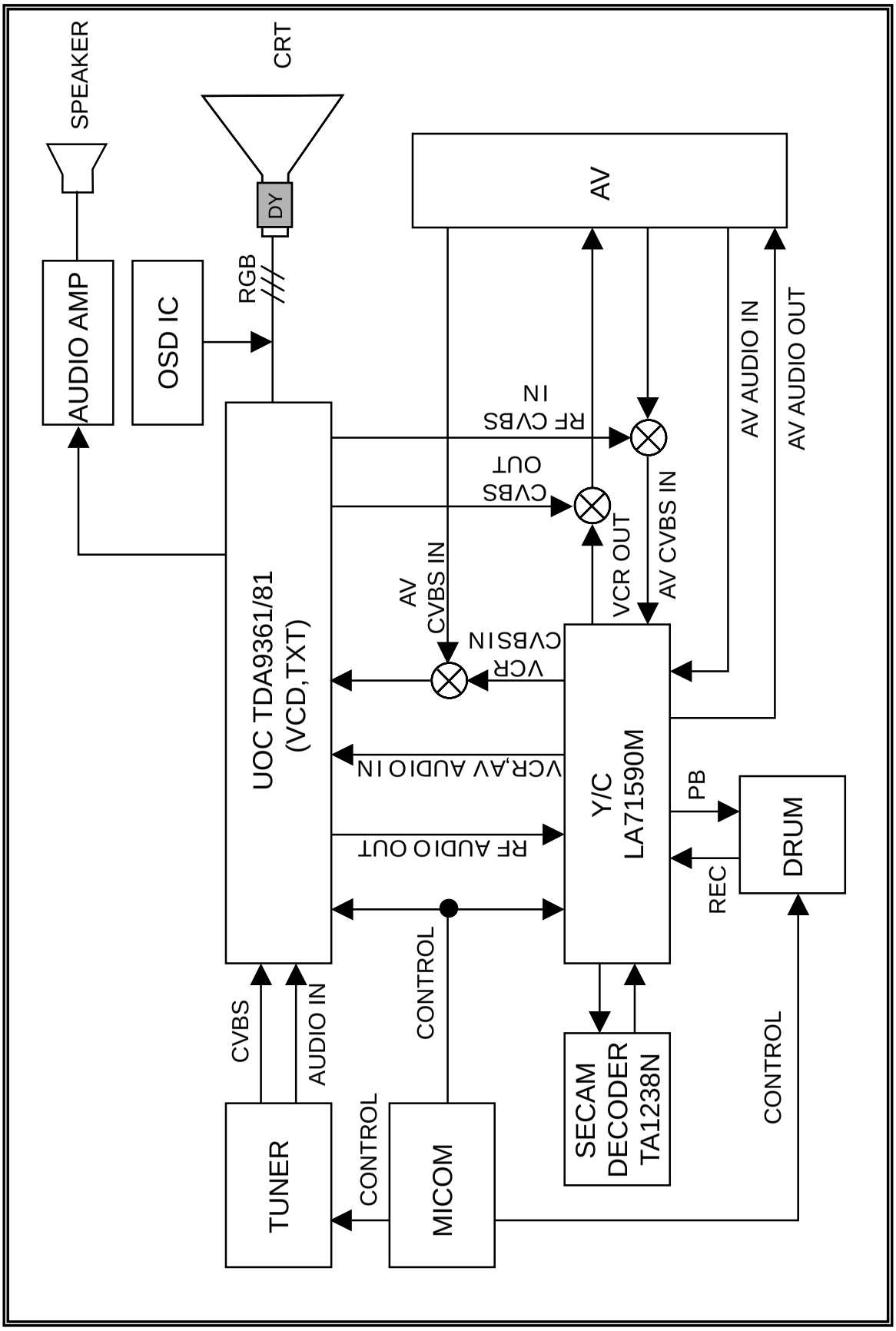
* 2nd SIF OPTION

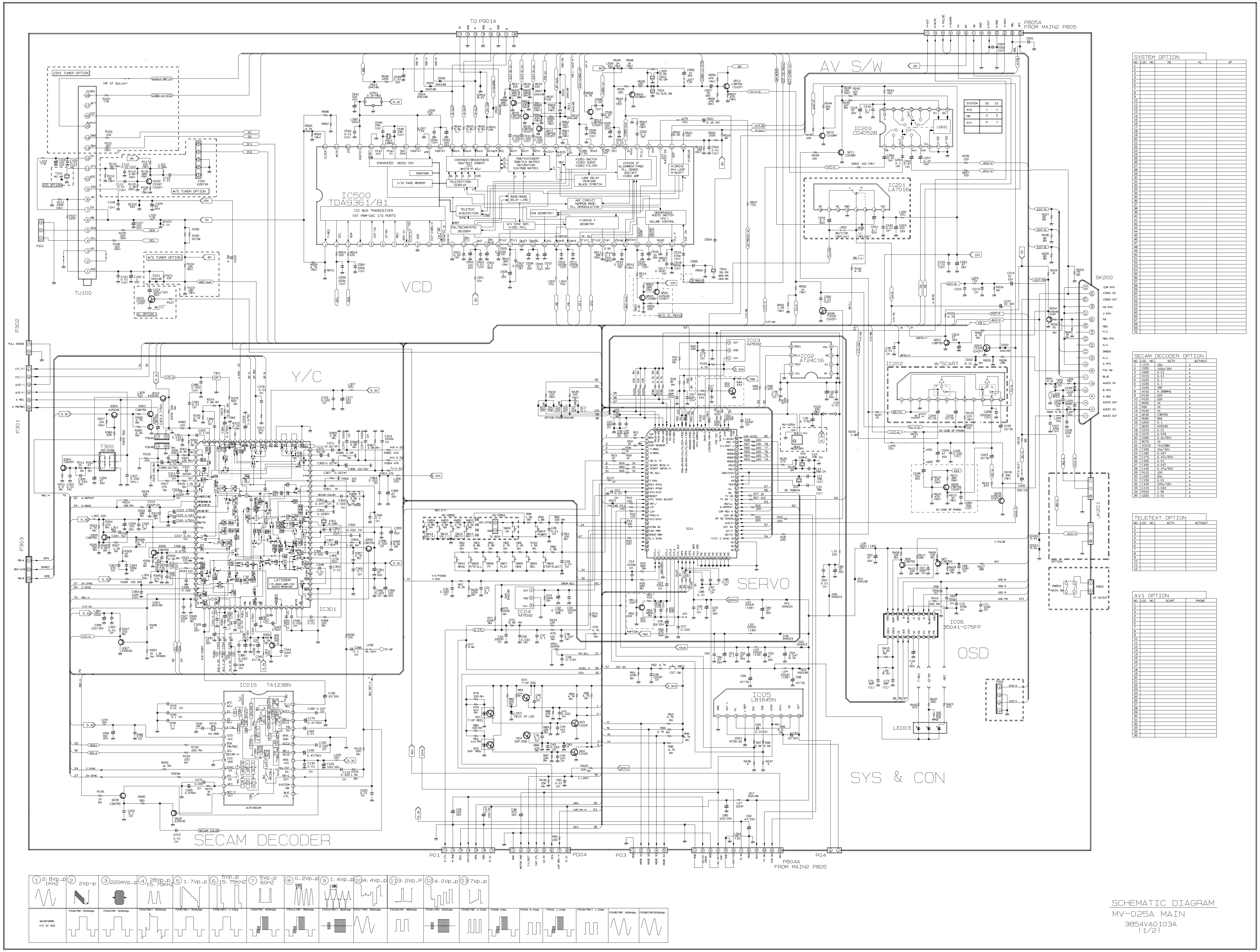
Mode	Funtion	Remark Note
0	OFF	INternal BPF
1	BG	BG : EXTERNAL DK/I:INTERNAL BPF
2	DK	DK: EXTERNAL BG/I:INTERNAL BPF

4.8. LANGUAGE

No	Country	Language	Remark Note
1	FRANCE	FRENCH	If buyer request special language we can accept it.
2	GERMANY	GERMAN	
3	Other EU	ENGLISH	
4	Except EU	ENGLISH	

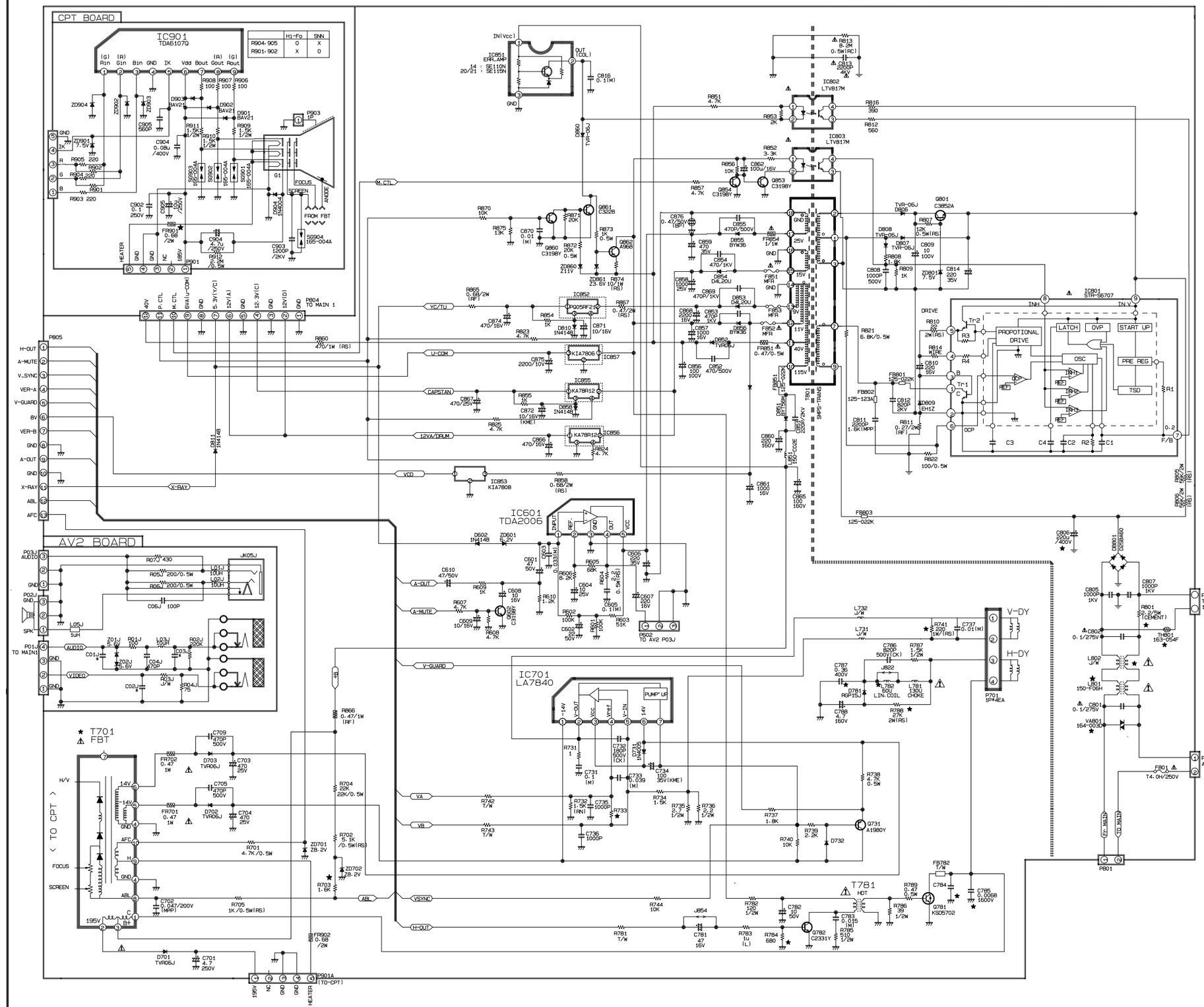
BLOCK DIAGRAM





TO P901A
P805A
FROM MAIN2 P805
AV S/W
VCD
IC500
TDA9361/81
Y/C
IC301
SERVO
OSD
SYS & CON
SECAM DECODER
IC01S TA1238N
IC05
LB1645N
IC06
35041-075FP
IC203
CD4052B
IC201
LA7016
IC202
W/SCART
IC03
KA75332
IC02
AT24C16
IC04
KA75332
TU100
SK200
JK201
P301
P302
P303
P01
PD04
P03
P804A
FROM MAIN2 P805
P04
LED03
SYSTEM OPTION
SECAM DECODER OPTION
TELETEXT OPTION
AV1 OPTION
SCHEMATIC DIAGRAM
MV-025A MAIN
3854VA0103A
(1/2)

MV-025A MAIN2 SCHEMATIC DIAGRAM



NOTICE
Since this is a basic schematic diagram,
The value of components and some partical
connection aresubject to change for improvement.

The components marked ⚠ conform to VDE or IEC guidelines and are essential for safe operation of the set, while those marked ⚠ are required for correct operation. Use specified parts only when replacing.

VALUE OF RESISTER, CAPACITOR AND INDUCTOR

1. Resistances are shown in ohm, K = 1,000 M = 1,000,000 .
2. Unless otherwise noted in schematic, all capacitor values less than 1 are expresses in mfd and the values more than 1 in pF
3. Unless otherwise noted in schematic, all coil values more . than 1 are expressed in uH, and the values less than 1 in H.

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltages 220 Volts, colour bar signal
2. Voltages reading may very ±20%.
3. The schematic shown is representative only.
4. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
5. Check FINE TUNING, AGC, BRIGHTNESS, CONTRAST and COLOUR controls for best picture, make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS controls is almost in maximum position.
6. Waveforms are takrn using a standard colour bar signal.

RANGE OPTION

NO.	LOC. NO.	RANGE	
		WIDE	NARROW
1	C806	330u/400V	220u/400V
2	R801	1.0,10W,CEMENT	2.2,5W,CEMENT
3	L801	150-F06F	150-F06H

INCH OPTION

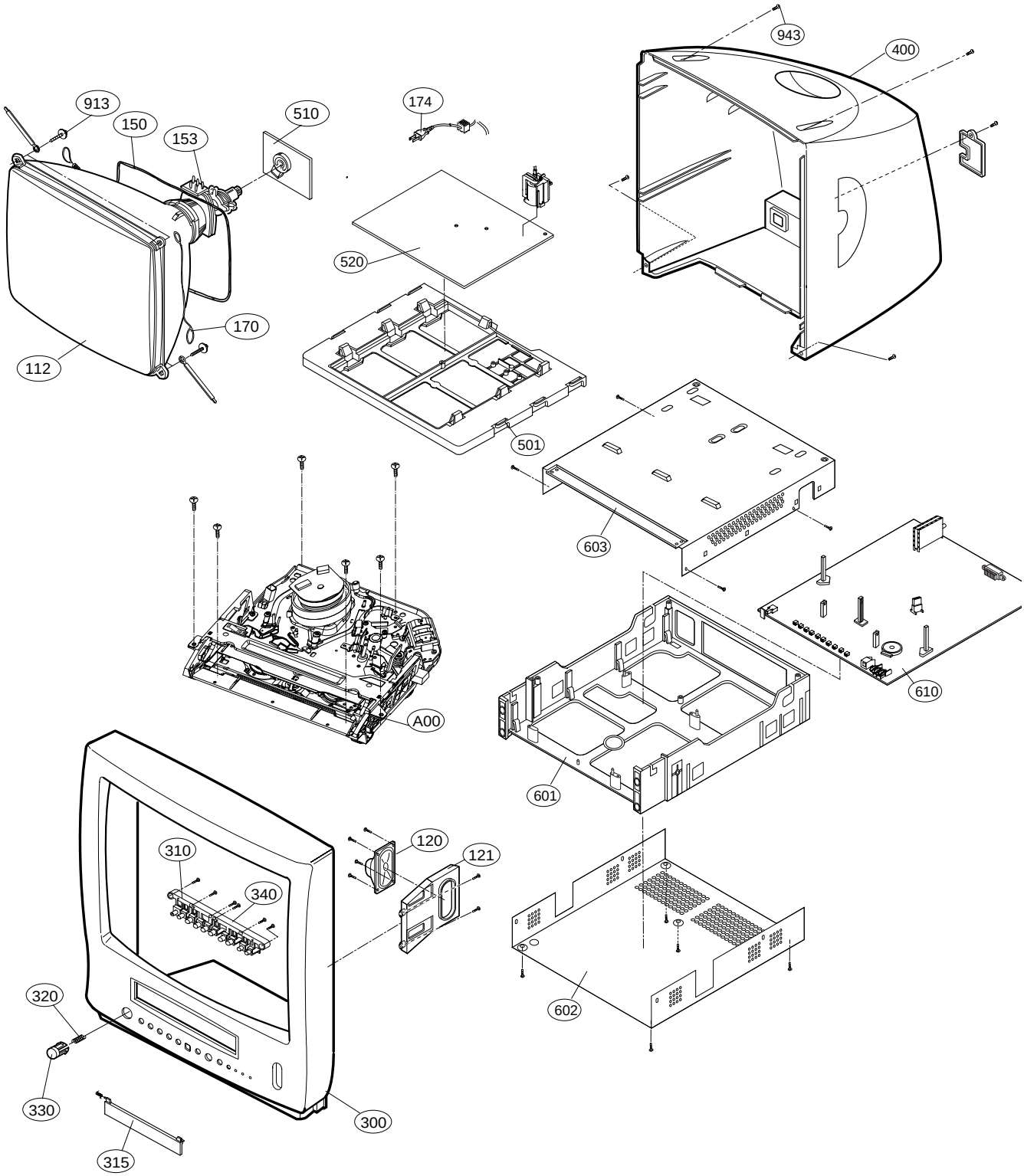
NO.	ROC. NO.	INCH			
		14"	15"	20"	21"
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

SCHEMETIC DIAGRAM
MV-025A MAIN2

3854VA0103A
(2/2)

2002/06/30

KE14P21 EXPLODED VIEW

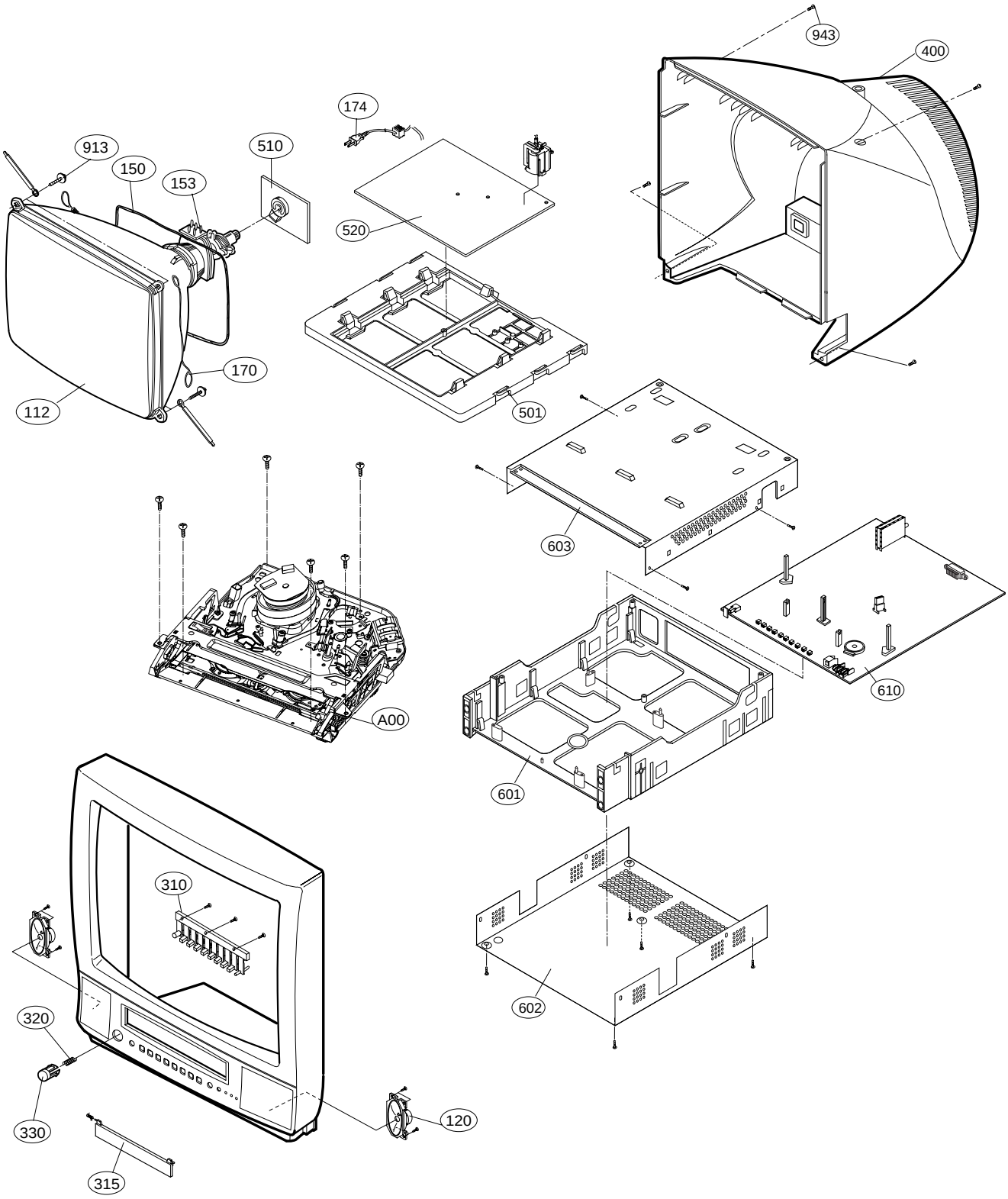


KE14P21 EXPLODED VIEW PARTS LIST

The components identified by mark ⚠ is critical for safety.
Replace only with part number specified.

LOCA. NO	PART NO	DESCRIPTIONS
⚠ 112	2055-00744L	CPT SET A34KPU02XX 00N7ND
120	6400VA0019B	SPEAKER,GENERAL G9050402(C93H) 8 OHM 3/
121	4810V00205A	BRACKET,SPK
⚠ 150	150-D02B	COIL,DEGAUSSING,CU 14" 42T 5.7 OHM
⚠ 153	153-113V	DY DCAD2-14SNAB
⚠ 170	170-A01E	CPT EARTH 14"
⚠ 174	174-224G	POWER CORD H03VVH2-F VOLEX BSI 2000MM
300	3091V00251F	CABINET ASSY(SILVER) NO SECAM LG .
	3091V00251D	CABINET ASSY(BLUE) NO SECAM LG .
310	5020V00382B	BUTTON
315	3580V00014T	DOOR,CST.W/O SECAM SILVER
	3580V00014U	DOOR,CST.W/O SECAM BLUE
320	320-075B	SPRING,KNOB
330	5020V00381A	BUTTON
340	5020V00383B	BUTTON
400	3809V00185E	BACK COVER ASSY(SILVER)
	3809V00185C	BACK COVER ASSY(BLUE)
501	4810V00012D	BRACKET,SMPS 407AF(V2)
520	6871VDM125J	PWB ASSY,MAIN2 (025A) 14" NARROW CKD
601	4810V00195C	BRACKET,MAIN
602	4814V00158B	SHIELD BOTTOM (P10/P20/P30) CKD
603	4814V00157E	SHIELD TOP CASE (14") CKD
610	6871VMMA81J	PWB ASSY,MAIN(025A) KE,W/TXT,SCART,CKD
	6871VMMA81K	PWB ASSY,MAIN(025A) KE,W/O TXT,SCART,CKD
913	332-057A	SCREW ASSY,HEXAGON HEAD NON NON FZMY
943	1PTF0403116	SCREW D4.0 L16.0 MSWR3/FZB
A00	6721R-0105A	DECK ASSY,VIDEO D33 (2HD, NP, VCR)

KE20P31 EXPLODED VIEW



EXPLODED VIEW PARTS LIST

The components identified by mark ⚠ is critical for safety.
Replace only with part number specified.

LOCA. NO	PART NO	DESCRIPTIONS
⚠ 112	2426GCA40CP	CPT SET A48QAD220X 00A7ND
120	120-D44D	SPEAKER,GENERAL C071P06K1452 ESTEC 16 OHM 3W/5
⚠ 150	150-D02M	COIL,DEGAUSSING,CU 20” 60T 15OH
⚠ 153	6150Z-1014A	DY DC20PLUB2
⚠ 170	170-A01F	CPT EARTH
⚠ 174	174-224G	POWER CORD H03VVH2-F VOLEX BSI 2000MM HSG
300	3091V00268C	CABINET ASSY KKE20P30X W/O SECAM LG GERMANY
310	5020V00401B	BUTTONKE-20P30 NON SET
315	3580V00014Y	DOOR,CST, W/O SECAM
320	320-075B	SPRING,KNOB
330	5020V00402A	BUTTON
400	3809V00195C	BACK COVER ASSY NO LABEL .
501	4810V00206B	BRACKET,SMPS
520	6871VDM125K	PWB ASSY,DEFLECTION MAIN2(025A)20”,NARROW,CKD
601	4810V00195C	BRACKET,MAIN
602	4814V00158B	SHIELD BOTTOM
603	4814V00157F	SHIELD TOP CASE(20/21”) PAL ONLY,
610	6871VMMA81J	PWB ASSY,MAIN(025A) KE,W/TXT,SCART,CKD
	6871VMMA81K	PWB ASSY,MAIN(025A) KE,W/O TXT,SCART,CKD
913	332-057B	SCREW ASSY,HEXAGON HEAD
943	1PTF0403116	SCREW,TAP TITE(P) D4.0 L16.0 MSWR3/FZB
A00	6721R-0105A	DECK ASSEMBLY,VIDEO D33(2HD, NP, VCR)

KE14P21 REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
IC		
IC01	0IHI647397D	IC,HD6473977R(OTP,R-VERSION) 100Q
IC02	0IAL241600B	IC,AT24C16-10PC 8D EEPROM 16K
IC03	0IFA753307A	IC,KA75330ZTA(KA7533ZTA) 3P,TO-92
IC04	0IFA753307A	IC,KA75330ZTA(KA7533ZTA) 3P,TO-92
IC05	0ISA164500B	IC,LB1645N 10SIP BK MOTOR DRIVE I
IC06	0IMI350410R	IC,M35041-091FP 20SOP TP OSD
IC202	0ISA722200A	IC,LA7222 (1280 AUDIO)
IC203	0ISG405200B	IC,HCF4052BE 16P,DIP BK DIFF-4CH
IC301	0ISA715980A	IC,LA71598M 100QFP BK AVCP PAL
IC500	0IMCRPH012A	IC,TDA9361PS/N2/5I PHILIPS 64P ST
"	0IMCRPH013A	IC,TDA9381PS/N2/3I PHILIPS
IC501	0ISG111733B	IC,LD1117V33C 3SIP ST REGULATOR
IC601	0ISG200600A	IC,TDA2006 5Z 1CHX10W AUDIO AMP.
IC701	0ISA784070A	IC,LA7840 7S VERTICAL
IC801	0ISK670700B	IC,STR/S6707(LF.953) 9P (R5,R6) -
IC802	0ILI817000G	IC,LTV817M-VB 4P,DIP BK PHOTO COU
IC803	0ILI817000G	IC,LTV817M-VB 4P,DIP BK PHOTO COU
IC851	0ISK110000A	IC,SE110N(LF12) 3P 110V ERROR AMP
IC852	0ISH052100C	IC,PQ05RD21 4SIP ST REGULATOR
IC853	0IKE780800J	IC,KIA7808API 3 ST REGULATOR .
IC855	0ISS781200H	IC,KA78R12 4P,TO-220F BK LOW DROP
IC857	0IKE780600F	IC,KIA7806API 3 ST REGULATOR .
IC901	0IPH610700A	IC,TDA6107Q SIP9 BK VIDEO OUT AMP
DIODE		
D01	0DR140049AC	DIODE,RECTIFIERS 1N4004A T-81
D02	0DR140049AC	DIODE,RECTIFIERS 1N4004A T-81
D03	0DD414809ED	DIODE,1N4148 TA
D04	0DD414809ED	DIODE,1N4148 TA
D05	0DD414809ED	DIODE,1N4148 TA
D07	0DD414809ED	DIODE,1N4148 TA
D18	0DR140049AC	DIODE,RECTIFIERS 1N4004A T-81
D22	0DD414809E	DIODE,1N4148 TA
D26	0DR140049AC	DIODE,RECTIFIERS 1N4004A T-81
D201	0DD414809ED	DIODE,1N4148 TA
D202	0DD414809ED	DIODE,1N4148 TA
D301	0DD414809ED	DIODE,1N4148 TA
D502	0DD414809ED	DIODE,1N4148 TA
D503	0DD414809ED	DIODE,1N4148 TA
D504	0DD414809ED	DIODE,1N4148 TA
D505	0DD414809ED	DIODE,1N4148 TA
D506	0DD414809ED	DIODE,1N4148 TA
D507	0DD414809ED	DIODE,1N4148 TA
D510	0DD414809ED	DIODE,1N4148 TA
D511	0DD414809ED	DIODE,1N4148 TA
D512	0DD414809ED	DIODE,1N4148 TA
D602	0DD414809ED	DIODE,1N4148 TA
D701	0DD060009AC	DIODE,RECTIFIERS TVR06J
D702	0DD060009AC	DIODE,RECTIFIERS TVR06J
D703	0DD060009AC	DIODE,RECTIFIERS TVR06J
D731	0DD400509AA	DIODE,RECTIFIERS 1N4005
D781	0DD150009CA	DIODE,RECTIFIERS RGP15J

LOCA. NO	PART NO	DESCRIPTION
D806	0DD060009AC	DIODE,RECTIFIERS TVR06J
D807	0DD060009AC	DIODE,RECTIFIERS TVR06J
D808	0DD060009AC	DIODE,RECTIFIERS TVR06J
D809	0DD100009AL	DIODE,RECTIFIERS EH-1ZV(1)
D810	0DD414809ED	DIODE,1N4148 TA
D811	0DD414809ED	DIODE,1N4148 TA
D851	0DD560009AA	DIODE,RECTIFIER BYT56M
D852	0DD060009AC	DIODE,RECTIFIERS TVR06J
D853	0DD420000BB	DIODE,D4L20U SHINDENGEN
D854	0DD420000BB	DIODE,D4L20U SHINDENGEN
D855	0DD360009AA	DIODE,RECTIFIERS BYW36 TP (2A/600V)
D856	0DD360009AA	DIODE,RECTIFIERS BYW36 TP (2A/600V)
D858	0DD414809ED	DIODE,1N4148 TA
D859	0DD360009AA	DIODE,RECTIFIERS BYW36 TP(2A/600V)
D860	0DD060009AC	DIODE,RECTIFIERS TVR06J
D901	0DR210009AC	DIODE,RECTIFIERS BAV21 DO35 200V 0.2
D902	0DR210009AC	DIODE,RECTIFIERS BAV21 DO35 200V 0.2
D903	0DR210009AC	DIODE,RECTIFIERS BAV21 DO35 200V 0.2
D904	0DR140049AC	DIODE,RECTIFIERS 1N4004A T-81
DB801	0DD260000BB	DIODE,RECTIFIERS BRIDGE D2SBA60(STK)
LD03	4931R-0017A	HOLDER ASSEMBLY LED
ZD01	0DZ680009BB	DIODE,ZENERS MTZJ6.8B TP ROHM-K DO34 0.5W
ZD02	0DZ510009AB	DIODE,ZENERS MTZ5.1B TP ROHM-K
ZD102	0DZ330009BA	DIODE,ZENER HZT33(TP) HITACHI
ZD103	0DZ510009AB	DIODE,ZENERS MTZ5.1B TP ROHM-K
ZD601	0DZ620009BB	DIODE,ZENERS MTZJ6.2B TP ROHM-K DO34 0.5W
ZD701	0DZ820009BF	DIODE,ZENERS GDZJ8.2B TP GRANDE DO34 0.5W
ZD702	0DZ620009AK	DIODE,ZENERS GDZJ6.2B TP GRANDE DO34 0.5W
ZD801	0DZ750009BE	DIODE,ZENERS GDZJ7.5B TP GRANDE DO34 0.5W
ZD860	0DZ110009AD	DIODE,ZENERS MTZJ11B TP ROHM-K DO34 - 11V
ZD861	0DZ360009DA	DIODE,ZENERS MTZ3.6B,TP(52MM),ROHM
ZD901	0DZ750009BE	DIODE,ZENERS GDZJ7.5B TP GRANDE DO34 0.5W
TRANSISTOR		
Q03	0TR102009AG	TR,CHIP KRC102S SOT-23 TP KEC
Q04	0TR102009AG	TR,CHIP KRC102S SOT-23 TP KEC
Q07	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q08	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q201	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q203	0TR102009AG	TR,CHIP KRC102S SOT-23 TP KEC
Q204	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q206	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q208	0TR102009AG	TR,CHIP KRC102S SOT-23 TP KEC
Q211	0TR319809AA	TR,KTC3198 TP KEC - - -Y (KTC1815
Q212	0TR319809AA	TR,KTC3198 TP KEC - - -Y (KTC1815
Q300	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q301	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q303	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q304	0TR320509AB	TR,KTC3205-Y (KTC2236A) TP KEC
Q305	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q306	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q307	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q308	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;	CC, CX, CK, CN : Ceramic CQ : Polyestor CE : Electrolytic	RD : Carbon Film RS : Metal Oxide Film RN : Metal Film RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
Q309	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q312	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q502	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q503	0TR319809AA	TR,KTC3198 TP KEC - - -Y (KTC1815
Q513	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q514	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q515	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q516	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q517	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q602	0TR319809AA	TR,KTC3198 TP KEC - - -Y (KTC1815
Q731	0TR198009BA	TR,2SA1980Y TP AUK - -
Q781	0TR570200AA	TR,KSD5702 BK SAMSUNG TO3PF H-OUT
Q782	0TR233109AA	TR,KSC2331-Y TP SAMSUNG TO-92L
Q801	0TR385200AA	TR,2SC3852A SANKEN
Q853	0TR319809AA	TR,KTC3198 TP KEC - - -Y (KTC1815
Q854	0TR319809AA	TR,KTC3198 TP KEC - - -Y (KTC1815
Q860	0TR319809AA	TR,KTC3198 TP KEC - - -Y (KTC1815
Q861	0TR322809AA	TR,KTC3228-0 TP(KTC2383),KEC
Q862	0TR968000AA	TR,KTA968A-Y KEC
CAPACITOR		
C04J	0CN4710K519	470P 50V K B TA52
C06	0CE3363F618	33UF SRE 16V M FL TP5
C06J	0CN1010K519	100P 50V K B TA52
C07	0CN2230H949	22000P 25V Z FTA52
C09	0CE2263F618	22UF SRE 16V M FL TP5
C10	0CC1800K415	18P 50V J NPO TP
C11	0CC1800K415	18P 50V J NPO TP
C16	0CE4763F618	47UF SRE 16V M FL TP5
C18	0CE1053K618	1UF SRE 50V M FL TP5
C32	0CE4753K618	4.7UF SRE,SE 50V 20% FL TP 5
C36	0CQ4731N509	0.047U 100V K POLY TP
C37	0CN1040K949	0.1M 50V Z F TA52
C38	181-442Z	PE,ECQ-B1H104KF3(TR)
C39	0CE4753K618	4.7UF SRE,SE 50V 20% FL TP 5
C45	0CE107DF618	100UF STD 16V M FL TP5
C47	0CE1074F618	100UF SRA 16V M FL TP5
C48	0CE477DF618	470UF STD 16V 20% FL TP 5
C50	0CE4763F618	47UF SRE 16V M FL TP5
C51	0CN1040K949	0.1M 50V Z F TA52
C52	0CE4763F618	47UF SRE 16V M FL TP5
C53	0CE4763F618	47UF SRE 16V M FL TP5
C54	181-507A	STAR-CAP 5.5V 0.047F Z TP5
C55	0CQ3332K439	0.0330UF S 50V J M/PE NI TP
C56	0CE4763F618	47UF SRE 16V M FL TP5
C58	0CE4763F618	47UF SRE 16V M FL TP5
C61	0CE1063F616	10UF SRE 16V M FL BP(D) TP
C63	0CE4763F618	47UF SRE 16V M FL TP5
C72	0CC8200K415	82P 50V J NP0 TP
C73	0CC3900K415	39P 50V J NPO TP
C80	0CE4763F618	47UF SRE 16V M FL TP5
C84	0CE4763F618	47UF SRE 16V M FL TP5
C85	0CE107DF618	100UF STD 16V M FL TP5

LOCA. NO	PART NO	DESCRIPTION
C88	0CN1030F679	10000P 16V M Y TA52
C102	0CE105DK618	1UF STD 50V M FL TP5
C104	0CE107DD618	100UF STD 10V M FL TP5
C105	0CH2103K516	10000P 50V K B 2.0X1.25 R/TP
C107	0CE107DD618	100UF STD 10V M FL TP5
C109	0CE476DK618	47UF STD 50V M FL TP5
C200	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE NI
C204	0CE476DF618	47UF STD 16V M FL TP5
C207	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE NI
C214	0CE106DF618	10UF STD 16V M FL TP5
C215	0CE476DF618	47UF STD 16V M FL TP5
C223	0CE1063F618	10UF SRE 16V M FL TP5
C224	0CE476DF618	47UF STD 16V M FL TP5
C226	0CE337DF618	330UF STD 16V M FL TP5
C227	0CH5471K416	470PF 50V J NP0 2012 R/TP
C228	0CH5471K416	470PF 50V J NP0 2012 R/TP
C229	0CH5101K416	100PF 50V J NP0 2012 R/TP
C234	0CE106DF618	10UF STD 16V M FL TP5
C235	0CE106DF618	10UF STD 16V M FL TP5
C237	0CE106DF618	10UF STD 16V M FL TP5
C244	0CE106DF618	10UF STD 16V M FL TP5
C251	0CE476DF618	47UF STD 16V M FL TP5
C262	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE NI
C264	181-442Z	PE,ECQ-B1H104KF3(TR)
C265	0CH2223K516	22000P 50V K B 2.0X1.25 R/TP
C302	0CQ1031N509	0.01U 100V K POLY TP
C303	0CE4753K618	4.7UF SRE,SE 50V 20% FL TP 5
C305	0CQ1531N509	0.015U 100V K POLY TP
C306	0CE4763F618	47UF SRE 16V M FL TP5
C307	0CQ2231N509	0.022U 100V K POLY TP
C309	0CE1074F618	100UF SRA 16V M FL TP5
C310	0CQ2221N509	0.0022U 100V K POLY TP
C313	0CE1053K618	1UF SRE 50V M FL TP5
C316	0CE1053K618	1UF SRE 50V M FL TP5
C329	0CE1063F618	10UF SRE 16V M FL TP5
C330	0CE1063F618	10UF SRE 16V M FL TP5
C332	0CE2253K618	2.2UF SRE,SE 50V 20% FL TP 5
C333	0CN1040K949	0.1M 50V Z F TA52
C334	0CN1040K949	0.1M 50V Z F TA52
C335	0CN1040K949	0.1M 50V Z F TA52
C336	0CN2230H949	22000P 25V Z FTA52
C338	0CE4763F618	47UF SRE 16V M FL TP5
C340	0CE4763F618	47UF SRE 16V M FL TP5
C341	0CE1053K618	1UF SRE 50V M FL TP5
C342	0CE1063F618	10UF SRE 16V M FL TP5
C343	0CE1053K618	1UF SRE 50V M FL TP5
C347	0CN1030F679	10000P 16V M Y TA52
C350	0CE1074F618	100UF SRA 16V M FL TP5
C351	0CE4763F618	47UF SRE 16V M FL TP5
C353	0CN1030F679	10000P 16V M Y TA52
C355	0CE4753K618	4.7UF SRE,SE 50V 20% FL TP 5
C356	0CN2230H949	22000P 25V Z FTA52
C357	0CE4753K618	4.7UF SRE,SE 50V 20% FL TP 5

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CQ : Polyestor
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RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
C359	0CE1053K618	1UF SRE 50V M FL TP5
C365	0CE4763F618	47UF SRE 16V M FL TP5
C367	0CQ2242K439	0.22UF S 50V 5% M/PE NI TP5
C368	0CE1063F618	10UF SRE 16V M FL TP5
C369	0CQ2242K439	0.22UF S 50V 5% M/PE NI TP5
C370	0CE3363F618	33UF SRE 16V M FL TP5
C371	0CQ2242K439	0.22UF S 50V 5% M/PE NI TP5
C377	0CE1074F618	100UF SRA 16V M FL TP5
C379	0CE1053K618	1UF SRE 50V M FL TP5
C381	0CE335DK618	3.3UF STD 50V 20% FL TP 5
C389	0CE2263F618	22UF SRE 16V M FL TP5
C390	0CE2253K618	2.2UF SRE,SE 50V 20% FL TP 5
C396	0CE107DF618	100UF STD 16V M FL TP5
C501	0CF2241L438	0.22UF D 63V 5% TP 5 M/PE NI
C502	0CE107DD618	100UF STD 10V M FL TP5
C504	0CE225DK618	2.2UF STD 50V 20% FL TP 5
C505	0CQ2221N509	0.0022U 100V K POLY TP
C506	0CE105DK618	1UF STD 50V M FL TP5
C507	0CQ2221N509	0.0022U 100V K POLY TP
C508	0CE106DF618	10UF STD 16V M FL TP5
C510	0CE105DK618	1UF STD 50V M FL TP5
C513	0CF1041N450	0.1UF D 100V 5% BULK PP NI
C514	0CQ2231N509	0.022U 100V K POLY TP
C516	0CE106DF618	10UF STD 16V M FL TP5
C517	0CQ4721N509	0.0047U 100V K POLY TP
C519	0CH5101K416	100PF 50V J NP0 2012 R/TP
C521	0CF1541L438	0.15UF D 63V 5% TP 5 M/PE NI
C522	181-442Z	PE,ECQ-B1H104KF3(TR)
C525	0CE107DD618	100UF STD 10V M FL TP5
C526	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE NI
C539	0CE474DK618	0.4700UF STD 50V M FL TP5
C541	0CE107DD618	100UF STD 10V M FL TP5
C543	0CE107DD618	100UF STD 10V M FL TP5
C556	0CE106DF618	10UF STD 16V M FL TP5
C557	0CE106DF618	10UF STD 16V M FL TP5
C601	0CE476DF618	47UF STD 16V M FL TP5
C602	0CE226DK618	22UF STD 50V M FL TP5
C603	0CQ2731N509	0.027U 100V K POLY TP
C604	0CE106DH618	10UF STD 25V M FL TP5
C605	0CQ1041N509	0.1U 100V K POLY TP
C606	0CE227DJ618	220UF STD 35V M FL TP5
C607	0CE227DF618	220UF STD 16V M FL TP5
C608	0CE106DF618	10UF STD 16V M FL TP5
C609	0CE106DF618	10UF STD 16V M FL TP5
C610	0CE476DF618	47UF STD 16V M FL TP5
C701	0CE475DR618	4.7UF STD 250V 20% FL TP 5
C702	181-009V	PP 200V 0.047UF K
C703	0CE477DH618	470UF STD 25V M FL TP5
C704	0CE477DH618	470UF STD 25V M FL TP5
C705	0CK4710W515	470PF 500V K B TR
C709	0CK4710W515	470PF 500V K B TR
C731	0CQ1041N509	0.1U 100V K POLY TP
C732	0CK1810W515	180P 500V K B TS

LOCA. NO	PART NO	DESCRIPTION
C733	0CQ3931N509	0.0390UF 100V K PE TP
C734	0CE107BJ618	100UF KME 35V M FL TP5
C735	0CN1020K519	1000P 50V K B TA52
C736	0CN1020K519	1000P 50V K B TA52
C737	0CQ6821N509	0.0068U 100V K POLY TP
C781	0CE476DF618	47UF STD 16V M FL TP5
C782	0CE106DK618	10UF STD 50V M FL TP5
C783	0CQ1531N509	0.015U 100V K POLY TP
C785	181-015E	MPP 1600V 0.0068UF H
C786	0CK8210W515	820P 500V K B TS
C787	181-013C	MPP 200V 0.39UF J
C788	0CE475DP618	4.7UF STD 160V 20% FL TP 5
C801	0CQZVBK002A	A.C 275V 0.1UF M (S=15)
C802	0CQZVBK002A	A.C 275V 0.1UF M (S=15)
C805	0CK10201515	1000P 1KV K B TS
C806	181-001F	CE 400V 220UF M LUG (85)
C807	0CK10201515	1000P 1KV K B TS
C808	0CK1020W515	1000P 500V K B TS
C809	0CE106DN618	10UF STD 100V M FL TP5
C810	0CE227DF618	220UF STD 16V M FL TP5
C811	181-014A	0.0022UF 1.6KV 5% FM MPP
C812	181-091J	DEHR33D821KN3A 820PF 2KV 10%,-
C813	181-120K	2200PF 4KV M E FMTW LEAD 4.5
C814	0CE227DJ618	220UF STD 35V M FL TP5
C816	0CQ1041N509	0.1U 100V K POLY TP
C851	181-091U	R 220PF 2KV 10%,-10% R/TP TP7.
C852	0CK4710W515	470PF 500V K B TR
C853	0CK4710W515	470PF 500V K B TR
C854	0CK4710W515	470PF 500V K B TR
C855	0CK4710W515	470PF 500V K B TR
C856	0CE107DN618	100UF STD 100V M FL TP5
C857	0CE108DF618	1000UF STD 16V M FL TP5
C858	0CE108DH618	1000UF STD 25V M FL TP5
C859	0CE477DJ618	470UF STD 35V 20% FL TP 5
C860	0CE227DP61A	220UF STD 160V 20% FL TP 7.5
C861	0CE108DF618	1000UF STD 16V M FL TP5
C865	0CE107CP618	100U SHL 160V M FL TP5
C866	0CE477DF618	470UF STD 16V 20% FL TP 5
C867	0CE477DH618	470UF STD 25V M FL TP5
C868	0CE228DF618	2200UF STD 16V M FL TP5
C869	181-091C	DEHR33A471KN2A 470PF 1KV 10%,-
C870	0CQ1031N509	0.01U 100V K POLY TP
C871	0CE106DF618	10UF STD 16V M FL TP5
C872	0CE106BF618	10UF KME 16V M FL TP5
C874	0CE477DF618	470UF STD 16V 20% FL TP 5
C875	0CE228DD618	2200UF STD 10V M FL TP5
C876	0CE474CK636	0.47UF SHL,SD 50V 20% FM5 BP(D
C901	0CE475DR618	4.7UF STD 250V 20% FL TP 5
C902	0CQ1044R539	0.1UF TE 250V K M/PE NI TP5
C903	0CK12202510	1200P 2KV K B S
C904	0CE475DR618	4.7UF STD 250V 20% FL TP 5
C905	0CN5610K519	560P 50V K B TA52

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LOCA. NO	PART NO	DESCRIPTION
COIL & TRANSFORMER		
J275	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L01J	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L01	0LA1000K139	INDUCTOR,100UH K 4*10.5 TP
L02J	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L02	0LA1000K139	INDUCTOR,100UH K 4*10.5 TP
L03J	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L03	0LA1000K139	INDUCTOR,100UH K 4*10.5 TP
L04	0LA1000K139	INDUCTOR,100UH K 4*10.5 TP
L05J	0LA0101K119	INDUCTOR,1.0UH K 2.3*3.4 TP
L05	0LA1000K139	INDUCTOR,100UH K 4*10.5 TP
L06	0LA0821K119	INDUCTOR,8.2UH K 2.3*3.4 TP
L07	0LA0222K119	INDUCTOR,22UH K 2.3*3.4 TP
L10	0LA1000K119	INDUCTOR,100UH K 2.3*3.4 TP
L205	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L206	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L207	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L209	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L300	0LA0222K119	INDUCTOR,22UH K 2.3*3.4 TP
L301	0LA0562K119	INDUCTOR,56UH K 2.3*3.4 TP
L302	0LA0332K119	INDUCTOR,33UH K 2.3*3.4 TP
L303	0LA0222K119	INDUCTOR,22UH K 2.3*3.4 TP
L306	0LA0222K119	INDUCTOR,22UH K 2.3*3.4 TP
L307	0LA0222K119	INDUCTOR,22UH K 2.3*3.4 TP
L309	0LA0272K119	INDUCTOR,27UH K 2.3*3.4 TP
L391	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L501	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L502	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L503	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L506	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L590	0LA1000K119	INDUCTOR,100UH K 2.3*3.4 TP
L781	150-L02A	COIL,LINEARITY 160UH PHY TURN
L851	150-C02E	COIL,CHOKE 50UH R 1217
R542	0LA0681K119	INDUCTOR,6.8UH K 2.3*3.4 TP
R543	0LA0681K119	INDUCTOR,6.8UH K 2.3*3.4 TP
R544	0LA0681K119	INDUCTOR,6.8UH K 2.3*3.4 TP
R783	0LA0101K119	INDUCTOR,1.0UH K 2.3*3.4 TP
T300	633-032N	COIL,IFT BIAC OSC DEO-010 KSE
T701	6174Z-6040C	FBT FTMPNG1 -6040C
T781	6170VC0003C	TRANSFORMER,H-DRIVER DRUM 10*12
T801	151-A13J	TRANSFORMER,SMPS EER4215 700UH
CONNECTOR		
P01J	366-932C	CONNECTOR,2.5MM 4P GIL-G LG CABLE S
P01	561-234V	CONNECTOR,GF120-07S-TS LGC 7PIN 1.25MM
P02J	366-922B	CONNECTOR,2.5MM 3P GIL-G LG CABLE R/A
P03J	387-A03C	CONNECTOR ASSY,3P 200MM H-B UL 1007
P04	6630R2S011A	CONNECTOR,DRAWING TMC-T02X-C1 TAIKO 2PIN 2.5MM
P100	366-009D	CONNECTOR,2.36PAI 1P . K/M AUTO
P202	387-A04C	CONNECTOR ASSY,4P (L=200)
P301	6630R5S008E	CONNECTOR,DRAWING 06(11)FM22.5H-BTR JST 6PIN 1MM
P302	561-251B	CONNECTOR,GB201-2P-TS-B(LGC)

LOCA. NO	PART NO	DESCRIPTION
P303	561-234Z	CONNECTOR,GF120-3S-TS-A LGC 3PIN 1.25MM
P602	366-932B	CONNECTOR,2.5MM 3P GIL-G LG CABLE S
P701	366-043K	CONNECTOR,PLUG(4P)
P703	366-009D	CONNECTOR,2.36PAI 1P . K/M AUTO
P801A	366-009D	CONNECTOR,2.36PAI 1P . K/M AUTO
P801B	366-009D	CONNECTOR,2.36PAI 1P . K/M AUTO
P802A	366-009D	CONNECTOR,2.36PAI 1P . K/M AUTO
P802A	366-009D	CONNECTOR,2.36PAI 1P . K/M AUTO
P802B	366-009D	CONNECTOR,2.36PAI 1P . K/M AUTO
P802B	366-009D	CONNECTOR,2.36PAI 1P . K/M AUTO
P803A	366-009D	CONNECTOR,2.36PAI 1P . K/M AUTO
P803B	366-009D	CONNECTOR,2.36PAI 1P . K/M AUTO
P804	6602V25004L	CONNECTOR,2.5MM 12P GT250 LG CABLE S
P804A	6631V25017G	CONNECTOR ASSY,2.5MM 12P(L=400) GT250(H)
P805	6602V25004M	CONNECTOR,2.5MM 13P GT250 LG CABLE S
P805A	6631V25A14H	CONNECTOR ASSY,13P 450MM H-B UL 1007
P901	6602V25004D	CONNECTOR,GT250 LGC 5 2.5 .
P901A	6631V25A13G	CONNECTOR ASSY,5P 400MM H-T UL 1007
P902	366-932D	CONNECTOR,2.5MM 5P GIL-G LG CABLE
P902A	387-A05D	CONNECTOR ASSY,5P (L=250)
P903	366-009D	CONNECTOR,2.36PAI 1P K/M AUTO
PD04	6630R2P005C	CONNECTOR,DRAWING TMC-J08P-A1 TAIKO 8PIN 2MM
RESISTOR		
F851	180-D02Y	0.045 OHM 1/2 W 10% TA52 (MFR)
F852	180-D02Y	0.045 OHM 1/2 W 10% TA52 (MFR)
F853	180-D02Y	0.045 OHM 1/2 W 10% TA52 (MFR)
FR701	0RF0470J607	0.47 OHM 1 W 5.00% TA62
FR702	0RF0470J607	0.47 OHM 1 W 5.00% TA62
FR851	0RF0470H609	0.47 OHM 1/2 W 5.00% TA52
FR854	0RF0101J607	1 OHM 1 W 5.00% TA62
FR901	0RF0680J607	0.68 OHM 1 W 5.00% TA62
FR902	0RF0680J607	0.68 OHM 1 W 5.00% TA62
J258	0RD6200F609	620 OHM 1/6 W 5.00% TA52
R01J	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R01	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R02	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R02J	0RD2203F609	220K OHM 1/6 W 5.00% TA52
R03	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R04J	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R04	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R05J	0RD4700F609	470 OHM 1/6 W 5.00% TA52
R06	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R06J	0RD4700F609	470 OHM 1/6 W 5.00% TA52
R07J	0RD4300F609	430 OHM 1/6 W 5.00% TA52
R08	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R09S	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R09	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R10	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R11	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R12	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R14	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R17	0RD5601F609	5.6K OHM 1/6 W 5.00% TA52

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LOCA. NO	PART NO	DESCRIPTION
R18	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R20	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R22	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R23	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R24	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R25	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R26	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R27	0RD1002F609	10K OHM 1/6 W 5.00% TA52
R28	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R31	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R33	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R38	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R42	0RD3300F609	330 OHM 1/6 W 5.00% TA52
R43	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R45	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R46	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R55	0RD5600F609	560 OHM 1/6 W 5.00% TA52
R57	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R59	0RD1801F609	1.8K OHM 1/6 W 5.00% TA52
R67	0RD8201F609	8.2K OHM 1/6 W 5.00% TA52
R68	0RD1801F609	1.8K OHM 1/6 W 5.00% TA52
R69	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R74	0RD5602F609	56K OHM 1/6 W 5.00% TA52
R77	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R90	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R92	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R97	0RD5601F609	5.6K OHM 1/6 W 5.00% TA52
R98	0RD5601F609	5.6K OHM 1/6 W 5.00% TA52
R99	0RS0561K607	5.6 OHM 2 W 5.00% TA62
R102	0RD1001H609	1K OHM 1/2 W 5.00% TA52
R110	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R122	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R125	0RD1004F609	1M OHM 1/6 W 5.00% TA52
R147	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R148	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R149	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R153	0RD1002F609	10K OHM 1/6 W 5.00% TA52
R154	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R155	0RS0152K607	15 OHM 2 W 5.00% TA62
R205	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R207	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R208	0RD1502F609	15K OHM 1/6 W 5.00% TA52
R214	0RD4700F609	470 OHM 1/6 W 5.00% TA52
R219	0RD0682F609	68 OHM 1/6 W 5.00% TA52
R220	0RD5101F609	5.1K OHM 1/6 W 5.00% TA52
R221	0RD5101F609	5.1K OHM 1/6 W 5.00% TA52
R224	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R233	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R235	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R241	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R246	0RD1002F609	10K OHM 1/6 W 5.00% TA52
R247	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R249	0RD1002F609	10K OHM 1/6 W 5.00% TA52

LOCA. NO	PART NO	DESCRIPTION
R302	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R309	0RD5600F609	560 OHM 1/6 W 5.00% TA52
R319	0RD1002F609	10K OHM 1/6 W 5.00% TA52
R333	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R334	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R348	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R360	0RD2202F609	22K OHM 1/6 W 5.00% TA52
R361	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R363	0RD4702F609	47K OHM 1/6 W 5.00% TA52
R364	0RD4702F609	47K OHM 1/6 W 5.00% TA52
R365	0RD4702F609	47K OHM 1/6 W 5.00% TA52
R380	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R381	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R382	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R503	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R504	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R511	0RN3902F409	39K OHM 1/6 W 1.00% TA52
R513	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R515	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R516	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R517	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R519	0RD3001F609	3K OHM 1/6 W 5.00% TA52
R520	0RD1003F609	100K OHM 1/6 W 5.00% TA52
R521	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R522	0RD2702F609	27K OHM 1/6 W 5.00% TA52
R531	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R537	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R541	0RD1002F609	10K OHM 1/6 W 5.00% TA52
R546	0RD1203F609	120K OHM 1/6 W 5.00% TA52
R550	0RD2701F609	2.7K OHM 1/6 W 5.00% TA52
R551	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52
R552	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R558	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R593	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R601	0RD1003F609	100K OHM 1/6 W 5.00% TA52
R602	0RD1003F609	100K OHM 1/6 W 5.00% TA52
R603	0RD5102F609	51K OHM 1/6 W 5.00% TA52
R604	0RS0221H609	2.2 OHM 1/2 W 5.00% TA52
R605	0RD6802F609	68K OHM 1/6 W 5.00% TA52
R606	0RD8201F609	8.2K OHM 1/6 W 5.00% TA52
R607	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R608	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R609	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R610	0RD1201F609	1.2K OHM 1/6 W 5.00% TA52
R701	0RD4701H609	4.7K OHM 1/2 W 5.00% TA52
R702	0RS5101H609	5.1K OHM 1/2 W 5.00% TA52
R703	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
R704	0RD2003H609	200K OHM 1/2 W 5.00% TA52
R705	0RS1001H609	1K OHM 1/2 W 5.00% TA52
R731	0RD0101F609	1 OHM 1/6 W 5.00% TA52
R732	0RN1201F409	1.2K OHM 1/6 W 1.00% TA52
R734	0RD1201F609	1.2K OHM 1/6 W 5.00% TA52
R735	0RD0221H609	2.2 OHM 1/2 W 5.00% TA52

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LOCA. NO	PART NO	DESCRIPTION
R736	0RD0271H609	2.7 OHM 1/2 W 5.00% TA52
R737	0RD1801F609	1.8K OHM 1/6 W 5.00% TA52
R738	0RD4701H609	4.7K OHM 1/2 W 5.00% TA52
R739	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52
R740	0RD1002F609	10K OHM 1/6 W 5.00% TA52
R741	0RS2700K607	270 OHM 2 W 5.00% TA62
R744	0RD1002F609	10K OHM 1/6 W 5.00% TA52
R782	0RD0221H609	2.2 OHM 1/2 W 5.00% TA52
R784	0RD6800F609	680 OHM 1/6 W 5.00% TA52
R785	0RD5100H609	510 OHM 1/2 W 5.00% TA52
R786	0RD0392H609	39 OHM 1/2 W 5.00% TA52
R787	0RD1501H609	1.5K OHM 1/2 W 5.00% TA52
R788	0RS2702K607	27K OHM 2 W 5.00% TA62
R789	0RD0470H609	0.47 OHM 1/2 W 5.00% TA52
R801	180-A03A	RW RECT G 5W 2.20 J DOUBLE
R805	0RS5602K607	56K OHM 2 W 5.00% TA62
R806	0RS5602K607	56K OHM 2 W 5.00% TA62
R807	0RS1202H609	12K OHM 1/2 W 5.00% TA52
R808	0RD1801F609	1.8K OHM 1/6 W 5.00% TA52
R809	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R810	0RS0222K607	22 OHM 2 W 5.00% TA62
R811	180-A01H	RW ROUND G 2W 0.27 J TA31(63)
R812	0RD5600F609	560 OHM 1/6 W 5.00% TA52
R813	0RKZVTA001C	8.2M OHM 1/2 W 5% TA52 UL PILK
R816	0RD3900F609	390 OHM 1/6 W 5.00% TA52
R821	0RD6801H609	6.8K OHM 1/2 W 5.00% TA52
R822	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R823	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R824	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R825	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R851	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R852	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R853	0RD2001F609	2K OHM 1/6 W 5.00% TA52
R854	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R855	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R856	0RD1002F609	10K OHM 1/6 W 5.00% TA52
R857	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R858	0RS0680K607	0.68 OHM 2 W 5.00% TA62
R860	0RS4700J607	470 OHM 1 W 5.00% TA62
R865	0RF0680K607	0.68 OHM 2 W 5.00% TA62
R866	0RS0470J607	0.47 OHM 1 W 5.00% TA62
R867	0RS0470K607	0.47 OHM 2 W 5.00% TA62
R870	0RD1002F609	10K OHM 1/6 W 5.00% TA52
R871	0RD2002F609	20K OHM 1/6 W 5.00% TA52
R872	0RD2002H609	20K OHM 1/2 W 5.00% TA52
R873	0RD1001H609	1K OHM 1/2 W 5.00% TA52
R874	0RS0102J607	10 OHM 1 W 5.00% TA62
R875	0RD5601F609	5.6K OHM 1/6 W 5.00% TA52
R901	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R902	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R903	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R906	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R907	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R908	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R909	0RS1501H609	1.5K OHM 1/2 W 5.00% TA52
R910	0RS1501H609	1.5K OHM 1/2 W 5.00% TA52
R911	0RS1501H609	1.5K OHM 1/2 W 5.00% TA52
R912	0RD2204H609	2.2M OHM 1/2 W 5.00% TA52
RA07	0RD3902F609	39K OHM 1/6 W 5.00% TA52
RA11	0RD3902F609	39K OHM 1/6 W 5.00% TA52
RA20	0RD4700F609	470 OHM 1/6 W 5.00% TA52
RA22	0RD5600F609	560 OHM 1/6 W 5.00% TA52
RA23	0RD4700F609	470 OHM 1/6 W 5.00% TA52
RA30	0RD2700F609	270 OHM 1/6 W 5.00% TA52
RA33	0RD1202F609	12K OHM 1/6 W 5.00% TA52
VR01	180-F03M	EVN-DJAA03 B204 SEMI-FIX(H) TA
SWITCH		
P03	6600RPY001B	SWITCH,DRAWING MMS00420ZMBO MIC NON 5V 1MA VER
SW01	6600RDB004C	SWITCH,DRAWING MPU10252MLB5 MIC 5VDC 1mA HORI
SW03	140-315F	SWITCH,TACT 4LEAD EVQPC605K MATSUSHIT
SW04	140-315F	SWITCH,TACT 4LEAD EVQPC605K MATSUSHIT
SW05	140-315F	SWITCH,TACT 4LEAD EVQPC605K MATSUSHIT
SW06	140-315F	SWITCH,TACT 4LEAD EVQPC605K MATSUSHIT
SW07	140-315F	SWITCH,TACT 4LEAD EVQPC605K MATSUSHIT
SW08	140-315F	SWITCH,TACT 4LEAD EVQPC605K MATSUSHIT
SW11	140-315F	SWITCH,TACT 4LEAD EVQPC605K MATSUSHIT
SW12	140-315F	SWITCH,TACT 4LEAD EVQPC605K MATSUSHIT
SW13	140-315F	SWITCH,TACT 4LEAD EVQPC605K MATSUSHIT
SW14	140-315F	SWITCH,TACT 4LEAD EVQPC605K MATSUSHIT
SW804	6600VM1001A	SWITCH,PUSH SDKLA1 UL/CSA 250V 5A VER
FILTER & CRYSTAL		
FB801	125-022K	FILTER,FERRITE 1UH TAPING
FB802	125-123A	FILTER,FERRITE BFD3565R2F
FB803	125-022K	FILTER,FERRITE 1UH TAPING
FB851	125-022K	FILTER,FERRITE 1UH TAPING
L04J	125-022K	FILTER,FERRITE 1UH TAPING
L222	125-022K	FILTER,FERRITE 1UH TAPING
L801	150-F06H	FILTER,LINE FILTER SQE2930 30MH
T301	150-B05C	FILTER,BAND PASS L/C FILTER(07S) LPF
X01	156-A08A	RESONATOR,CRYSTAL DISHINKU RADIAL 32.768KH
X02	156-A01T	RESONATOR,CRYSTAL SUNNY RADIAL 10.000MHZ
X301	6202R1443AC	RESONATOR,CRYSTAL X-TAL 4.433709M 15PPM
X501	156-A02B	RESONATOR,CRYSTAL KJE RADIAL 12.000MHZ 30P
ACCESSORIES		
A1	3828VA0315D	MANUAL,OWNERS UK/WTY LG EN 032C/E TX
A2	6710V00032E	REMOTE CONTROLLER,W/TXT,1 TUNER,48KE
A2	6710V00032C	REMOTE CONTROLLER,W/O TXT
MISCELLANEOUS		
F801	0FS4001B53C	FUSE,SLOW BLOW 4000MA 250 V 5.2X20 CY/CE SEMK
RC01	6726VV0006H	REMOTE CONTROLLER RECEIVER 38KHZ
S01	6500RAB002A	SENSOR,GP1S566 SHARP D-33 REEL SENSOR
S02	6500RAB002A	SENSOR,GP1S566 SHARP D-33 REEL SENSOR

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LOCA. NO	PART NO	DESCRIPTION
S03	4930V00090A	HOLDER END SENSOR ASSY ,(33 DECK), 49
S04	4930V00090A	HOLDER END SENSOR ASSY ,(33 DECK), 49
SK200	381-091A	SOCKET,S-091A URIM ELECTRNICS 21PIN H
SK901	6620VBA003A	SOCKET,CPT PCS031A 7PIN 14/360
JK05J	6613V00009C	JACK ASSY,PMJ015C H/P+A/V 2P
TH801	163-051F	THERMISTOR,J503P84D140M290Q
TU100	6700MF0001H	TUNER,TAFD-M232D LG MULTI FS 3SYS,2I
VA801	164-003K	VARISTOR,SVC621D-14A 620V 0% UL/C

LOCA. NO	PART NO	DESCRIPTION

KE20P31 REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
IC		
IC01	0ICTMHY012B	IC,GMS3977RXXXXX(LG8027-01B) HYNI
IC02	0IAL241600B	IC,AT24C16-10PC 8D EEPROM 16K
IC03	0IFA753307A	IC,KA75330ZTA(KA7533ZTA) 3P,TO-92
IC04	0IFA753307A	IC,KA75330ZTA(KA7533ZTA) 3P,TO-92
IC05	0ISA164500B	IC,LB1645N 10SIP BK MOTOR DRIVE I
IC06	0IMI350410R	IC,M35041-091FP 20SOP TP OSD
IC202	0ISA722200A	IC,LA7222 (1280 AUDIO)
IC203	0ISG405200B	IC,HCF4052BE 16P,DIP BK DIFF-4CH
IC301	0ISA715980A	IC,LA71598M 100QFP BK AVCP PAL
IC500	0IMCRPH012A	IC,TDA9361PS/N2/5I PHILIPS 64P ST
"	0IMCRPH013A	IC,TDA9381PS/N2/3I PHILIPS 64P ST
IC501	0ISG111733B	IC,LD1117V33C 3SIP ST REGULATOR
IC601	0ISG200600A	IC,TDA2006 5Z 1CHX10W AUDIO AMP.
IC701	0ISA784070A	IC,LA7840 7S VERTICAL
IC801	0ISK670700B	IC,STR/S6707(LF.953) 9P (R5,R6) -
IC802	0ILI817000G	IC,LTV817M-VB 4P,DIP BK PHOTO COU
IC803	0ILI817000G	IC,LTV817M-VB 4P,DIP BK PHOTO COU
IC851	0ISK110000A	IC,SE110N(LF12) 3P 110V ERROR AMP
IC852	0ISH052100C	IC,PQ05RD21 4SIP ST REGULATOR
IC853	0IKE780800J	IC,KIA7808API 3 ST REGULATOR .
IC855	0ISS781200H	IC,KA78R12 4P,TO-220F BK LOW DROP
IC856	0ISS781200H	IC,KA78R12 4P,TO-220F BK LOW DROP
IC857	0IKE780600F	IC,KIA7806API 3 ST REGULATOR .
IC901	0IPH610700A	IC,TDA6107Q SIP9 BK VIDEO OUT AMP
DIODE		
D01	0DR140049AC	DIODE,RECTIFIERS 1N4004A T-81 TP
D02	0DR140049AC	DIODE,RECTIFIERS 1N4004A T-81 TP
D03	0DD414809ED	DIODE,1N4148 TA
D04	0DD414809ED	DIODE,1N4148 TA
D05	0DD414809ED	DIODE,1N4148 TA
D07	0DD414809ED	DIODE,1N4148 TA
D18	0DR140049AC	DIODE,RECTIFIERS 1N4004A T-81 TP
D22	0DD414809ED	DIODE,1N4148 TA
D24	0DD414809ED	DIODE,1N4148 TA
D25	0DD414809ED	DIODE,1N4148 TA
D26	0DR140049AC	DIODE,RECTIFIERS 1N4004A T-81 TP
D201	0DD414809ED	DIODE,1N4148 TA
D202	0DD414809ED	DIODE,1N4148 TA
D301	0DD414809ED	DIODE,1N4148 TA
D502	0DD414809ED	DIODE,1N4148 TA
D503	0DD414809ED	DIODE,1N4148 TA
D504	0DD414809ED	DIODE,1N4148 TA
D505	0DD414809ED	DIODE,1N4148 TA
D506	0DD414809ED	DIODE,1N4148 TA
D507	0DD414809ED	DIODE,1N4148 TA
D510	0DD414809ED	DIODE,1N4148 TA
D511	0DD414809ED	DIODE,1N4148 TA
D512	0DD414809ED	DIODE,1N4148 TA
D602	0DD414809ED	DIODE,1N4148 TA
D701	0DD060009AC	DIODE,RECTIFIERS TVR06J
D702	0DD060009AC	DIODE,RECTIFIERS TVR06J

LOCA. NO	PART NO	DESCRIPTION
D703	0DD060009AC	DIODE,RECTIFIERS TVR06J
D731	0DD400509AA	DIODE,RECTIFIERS 1N4005
D781	0DD150009CA	DIODE,RECTIFIERS RGP15J
D806	0DD060009AC	DIODE,RECTIFIERS TVR06J
D807	0DD060009AC	DIODE,RECTIFIERS TVR06J
D808	0DD060009AC	DIODE,RECTIFIERS TVR06J
D809	0DD100009AL	DIODE,RECTIFIERS EH-1ZV(1) TP
D810	0DD414809ED	DIODE,1N4148 TA
D811	0DD414809ED	DIODE,1N4148 TA
D851	0DD560009AA	DIODE,RECTIFIER BYT56M TEMIC TP TEMIC
D852	0DD060009AC	DIODE,RECTIFIERS TVR06J
D853	0DD420000BB	DIODE,D4L20U SHINDENGEN
D854	0DD420000BB	DIODE,D4L20U SHINDENGEN
D855	0DD360009AA	DIODE,RECTIFIERS BYW36 TP (2A/600V)
D856	0DD360009AA	DIODE,RECTIFIERS BYW36 TP (2A/600V)
D858	0DD414809ED	DIODE,1N4148 TA
D859	0DD360009AA	DIODE,RECTIFIERS BYW36 TP(2A/600V)
D860	0DD060009AC	DIODE,RECTIFIERS TVR06J
D901	0DR210009AC	DIODE,RECTIFIERS BAV21 DO35 200V 0.2
D902	0DR210009AC	DIODE,RECTIFIERS BAV21 DO35 200V 0.2
D903	0DR210009AC	DIODE,RECTIFIERS BAV21 DO35 200V 0.2
D904	0DR140049AC	DIODE,RECTIFIERS 1N4004A T-81
DB801	0DD260000BB	DIODE,RECTIFIERS BRIDGE D2SBA60(STK)
LD03	4931R-0017A	HOLDER ASSEMBLY LED NON
ZD01	0DZ680009BB	DIODE,ZENERS MTZJ6.8B TP ROHM-K DO34 0.5W 6
ZD02	0DZ510009AB	DIODE,ZENERS MTZ5.1B TP ROHM-K
ZD102	0DZ330009BA	DIODE,ZENER HZT33(TP) HITACHI
ZD103	0DZ510009AB	DIODE,ZENERS MTZ5.1B TP ROHM-K
ZD601	0DZ620009BB	DIODE,ZENERS MTZJ6.2B TP ROHM-K DO34 0.5W 6
ZD701	0DZ820009BF	DIODE,ZENERS GDZJ8.2B TP GRANDE DO34 0.5W 8
ZD702	0DZ620009AK	DIODE,ZENERS GDZJ6.2B TP GRANDE DO34 0.5W 6
ZD801	0DZ750009BE	DIODE,ZENERS GDZJ7.5B TP GRANDE DO34 0.5W 7
ZD860	0DZ110009AD	DIODE,ZENERS MTZJ11B TP ROHM-K DO34 - 11V 5
ZD861	0DZ360009DA	DIODE,ZENERS MTZ3.6B,TP(52MM),ROHM
ZD901	0DZ750009BE	DIODE,ZENERS GDZJ7.5B TP GRANDE DO34 0.5W 7
TRANSISTOR		
Q03	0TR102009AG	TR,CHIP KRC102S SOT-23 TP KEC
Q04	0TR102009AG	TR,CHIP KRC102S SOT-23 TP KEC
Q07	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q08	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q201	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q203	0TR102009AG	TR,CHIP KRC102S SOT-23 TP KEC
Q204	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q206	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q208	0TR102009AG	TR,CHIP KRC102S SOT-23 TP KEC
Q211	0TR319809AA	TR,KTC3198 TP KEC - - -Y (KTC1815
Q212	0TR319809AA	TR,KTC3198 TP KEC - - -Y (KTC1815
Q300	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q301	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q303	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q304	0TR320509AB	TR,KTC3205-Y (KTC2236A) TP KEC
Q305	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC

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LOCA. NO	PART NO	DESCRIPTION
Q306	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q307	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q308	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q309	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q312	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q502	0TR150400BA	TR,CHIP 2SA1504S(ASY) KEC
Q503	0TR319809AA	TR,KTC3198 TP KEC - - -Y (KTC1815
Q513	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q514	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q515	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q516	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q517	0TR387500AA	TR,CHIP 2SC3875S(ALY) KEC
Q602	0TR319809AA	TR,KTC3198 TP KEC - - -Y (KTC1815
Q731	0TR198009BA	TR,2SA1980Y TP AUK - -
Q781	0TR570200AA	TR,KSD5702 BK SAMSUNG TO3PF H-OUT
Q782	0TR233109AA	TR,KSC2331-Y TP SAMSUNG TO-92L
Q801	0TR385200AA	TR,2SC3852A SANKEN
Q853	0TR319809AA	TR,KTC3198 TP KEC - - -Y (KTC1815
Q854	0TR319809AA	TR,KTC3198 TP KEC - - -Y (KTC1815
Q860	0TR319809AA	TR,KTC3198 TP KEC - - -Y (KTC1815
Q861	0TR322809AA	TR,KTC3228-0 TP(KTC2383),KEC
Q862	0TR968000AA	TR,KTA968A-Y KEC
CAPACITOR		
C06	0CE3363F618	33UF SRE 16V M FL TP5
C07	0CN2230H949	22000P 25V Z FTA52
C09	0CE2263F618	22UF SRE 16V M FL TP5
C10	0CC1800K415	18P 50V J NPO TP
C11	0CC1800K415	18P 50V J NPO TP
C16	0CE4763F618	47UF SRE 16V M FL TP5
C18	0CE1053K618	1UF SRE 50V M FL TP5
C24J	0CN4710K519	470P 50V K B TA52
C26J	0CN1010K519	100P 50V K B TA52
C32	0CE4753K618	4.7UF SRE,SE 50V 20% FL TP 5
C36	0CQ4731N509	0.047U 100V K POLY TP
C37	0CN1040K949	0.1M 50V Z F TA52
C38	181-442Z	PE,ECQ-B1H104KF3(TR)
C39	0CE4753K618	4.7UF SRE,SE 50V 20% FL TP 5
C45	0CE107DF618	100UF STD 16V M FL TP5
C47	0CE1074F618	100UF SRA 16V M FL TP5
C48	0CE477DF618	470UF STD 16V 20% FL TP 5
C50	0CE4763F618	47UF SRE 16V M FL TP5
C51	0CN1040K949	0.1M 50V Z F TA52
C52	0CE4763F618	47UF SRE 16V M FL TP5
C53	0CE4763F618	47UF SRE 16V M FL TP5
C54	181-507A	STAR-CAP 5.5V 0.047F Z TP5
C55	0CQ3332K439	0.0330UF S 50V J M/PE NI TP
C56	0CE4763F618	47UF SRE 16V M FL TP5
C58	0CE4763F618	47UF SRE 16V M FL TP5
C61	0CE1063F616	10UF SRE 16V M FL BP(D) TP
C63	0CE4763F618	47UF SRE 16V M FL TP5
C72	0CC8200K415	82P 50V J NP0 TP
C73	0CC3900K415	39P 50V J NPO TP

LOCA. NO	PART NO	DESCRIPTION
C80	0CE4763F618	47UF SRE 16V M FL TP5
C84	0CE4763F618	47UF SRE 16V M FL TP5
C85	0CE107DF618	100UF STD 16V M FL TP5
C88	0CN1030F679	10000P 16V M Y TA52
C102	0CE105DK618	1UF STD 50V M FL TP5
C104	0CE107DD618	100UF STD 10V M FL TP5
C107	0CE107DD618	100UF STD 10V M FL TP5
C109	0CE476DK618	47UF STD 50V M FL TP5
C200	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE NI
C204	0CE476DF618	47UF STD 16V M FL TP5
C207	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE NI
C214	0CE106DF618	10UF STD 16V M FL TP5
C215	0CE476DF618	47UF STD 16V M FL TP5
C223	0CE1063F618	10UF SRE 16V M FL TP5
C224	0CE476DF618	47UF STD 16V M FL TP5
C226	0CE337DF618	330UF STD 16V M FL TP5
C234	0CE106DF618	10UF STD 16V M FL TP5
C235	0CE106DF618	10UF STD 16V M FL TP5
C237	0CE106DF618	10UF STD 16V M FL TP5
C244	0CE106DF618	10UF STD 16V M FL TP5
C251	0CE476DF618	47UF STD 16V M FL TP5
C262	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE NI
C264	181-442Z	PE,ECQ-B1H104KF3(TR)
C302	0CQ1031N509	0.01U 100V K POLY TP
C303	0CE4753K618	4.7UF SRE,SE 50V 20% FL TP 5
C305	0CQ1531N509	0.015U 100V K POLY TP
C306	0CE4763F618	47UF SRE 16V M FL TP5
C307	0CQ2231N509	0.022U 100V K POLY TP
C309	0CE1074F618	100UF SRA 16V M FL TP5
C310	0CQ2221N509	0.0022U 100V K POLY TP
C313	0CE1053K618	1UF SRE 50V M FL TP5
C316	0CE1053K618	1UF SRE 50V M FL TP5
C329	0CE1063F618	10UF SRE 16V M FL TP5
C330	0CE1063F618	10UF SRE 16V M FL TP5
C332	0CE2253K618	2.2UF SRE,SE 50V 20% FL TP 5
C333	0CN1040K949	0.1M 50V Z F TA52
C334	0CN1040K949	0.1M 50V Z F TA52
C335	0CN1040K949	0.1M 50V Z F TA52
C336	0CN2230H949	22000P 25V Z FTA52
C338	0CE4763F618	47UF SRE 16V M FL TP5
C340	0CE4763F618	47UF SRE 16V M FL TP5
C341	0CE1053K618	1UF SRE 50V M FL TP5
C342	0CE1063F618	10UF SRE 16V M FL TP5
C343	0CE1053K618	1UF SRE 50V M FL TP5
C347	0CN1030F679	10000P 16V M Y TA52
C350	0CE1074F618	100UF SRA 16V M FL TP5
C351	0CE4763F618	47UF SRE 16V M FL TP5
C353	0CN1030F679	10000P 16V M Y TA52
C355	0CE4753K618	4.7UF SRE,SE 50V 20% FL TP 5
C356	0CN2230H949	22000P 25V Z FTA52
C357	0CE4753K618	4.7UF SRE,SE 50V 20% FL TP 5
C359	0CE1053K618	1UF SRE 50V M FL TP5
C365	0CE4763F618	47UF SRE 16V M FL TP5

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CQ : Polyestor
CE : Electrolytic

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RN : Metal Film
RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
C367	0CQ2242K439	0.22UF S 50V 5% M/PE NI TP5
C368	0CE1063F618	10UF SRE 16V M FL TP5
C369	0CQ2242K439	0.22UF S 50V 5% M/PE NI TP5
C370	0CE3363F618	33UF SRE 16V M FL TP5
C371	0CQ2242K439	0.22UF S 50V 5% M/PE NI TP5
C377	0CE1074F618	100UF SRA 16V M FL TP5
C379	0CE1053K618	1UF SRE 50V M FL TP5
C381	0CE335DK618	3.3UF STD 50V 20% FL TP 5
C389	0CE2263F618	22UF SRE 16V M FL TP5
C390	0CE2253K618	2.2UF SRE,SE 50V 20% FL TP 5
C396	0CE107DF618	100UF STD 16V M FL TP5
C501	0CF2241L438	0.22UF D 63V 5% TP 5 M/PE NI
C502	0CE107DD618	100UF STD 10V M FL TP5
C504	0CE225DK618	2.2UF STD 50V 20% FL TP 5
C505	0CQ2221N509	0.0022U 100V K POLY TP
C506	0CE105DK618	1UF STD 50V M FL TP5
C507	0CQ2221N509	0.0022U 100V K POLY TP
C508	0CE106DF618	10UF STD 16V M FL TP5
C510	0CE105DK618	1UF STD 50V M FL TP5
C513	0CQ1041N455	0.1000UF 100V J PP NI FM7.5
C514	0CQ2231N509	0.022U 100V K POLY TP
C516	0CE106DF618	10UF STD 16V M FL TP5
C517	0CQ4721N509	0.0047U 100V K POLY TP
C521	0CF1541L438	0.15UF D 63V 5% TP 5 M/PE NI
C522	181-442Z	PE,ECQ-B1H104KF3(TR)
C525	0CE107DD618	100UF STD 10V M FL TP5
C526	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE NI
C539	0CE474DK618	0.4700UF STD 50V M FL TP5
C541	0CE107DD618	100UF STD 10V M FL TP5
C543	0CE107DD618	100UF STD 10V M FL TP5
C556	0CE106DF618	10UF STD 16V M FL TP5
C557	0CE106DF618	10UF STD 16V M FL TP5
C601	0CE476DF618	47UF STD 16V M FL TP5
C602	0CE226DK618	22UF STD 50V M FL TP5
C603	0CQ2731N509	0.027U 100V K POLY TP
C604	0CE106DH618	10UF STD 25V M FL TP5
C605	0CQ1041N509	0.1U 100V K POLY TP
C606	0CE227DJ618	220UF STD 35V M FL TP5
C607	0CE227DF618	220UF STD 16V M FL TP5
C608	0CE1063F616	10UF SRE 16V M FL BP(D) TP
C609	0CE106DF618	10UF STD 16V M FL TP5
C610	0CE476DF618	47UF STD 16V M FL TP5
C701	0CE475DR618	4.7UF STD 250V 20% FL TP 5
C702	181-009V	PP 200V 0.047UF K
C703	0CE477DH618	470UF STD 25V M FL TP5
C704	0CE477DH618	470UF STD 25V M FL TP5
C705	0CK4710W515	470PF 500V K B TR
C709	0CK4710W515	470PF 500V K B TR
C731	0CQ1041N509	0.1U 100V K POLY TP
C732	0CK1810W515	180P 500V K B TS
C733	0CQ3931N509	0.0390UF 100V K PE TP
C734	0CE107BJ618	100UF KME 35V M FL TP5
C735	0CN1020K519	1000P 50V K B TA52

LOCA. NO	PART NO	DESCRIPTION
C736	0CN1020K519	1000P 50V K B TA52
C737	0CQ6821N509	0.0068U 100V K POLY TP
C781	0CE476DF618	47UF STD 16V M FL TP5
C782	0CE106DK618	10UF STD 50V M FL TP5
C783	0CQ1531N509	0.015U 100V K POLY TP
C784	181-091U	R 220PF 2KV 10%,-10% R/TP TP7.
C785	181-015F	MPP 1600V 0.0073UF H
C786	0CK8210W515	820P 500V K B TS
C787	181-013P	MPP 400V 0.33UF J
C788	0CE475DP618	4.7UF STD 160V 20% FL TP 5
C801	0CQZVBK002A	A.C 275V 0.1UF M (S=15)
C802	0CQZVBK002A	A.C 275V 0.1UF M (S=15)
C805	0CK10201515	1000P 1KV K B TS
C806	181-001F	CE 400V 220UF M LUG (85)
C807	0CK10201515	1000P 1KV K B TS
C808	0CK1020W515	1000P 500V K B TS
C809	0CE106DN618	10UF STD 100V M FL TP5
C810	0CE227DF618	220UF STD 16V M FL TP5
C811	181-014A	0.0022UF 1.6KV 5% FM MPP
C812	181-091J	DEHR33D821KN3A 820PF 2KV 10%,-
C813	181-120K	2200PF 4KV M E FMTW LEAD 4.5
C814	0CE227DJ618	220UF STD 35V M FL TP5
C816	0CQ1041N509	0.1U 100V K POLY TP
C851	181-091U	R 220PF 2KV 10%,-10% R/TP TP7.
C852	0CK4710W515	470PF 500V K B TR
C853	0CK4710W515	470PF 500V K B TR
C854	0CK4710W515	470PF 500V K B TR
C855	0CK4710W515	470PF 500V K B TR
C856	0CE107DN618	100UF STD 100V M FL TP5
C857	0CE108DF618	1000UF STD 16V M FL TP5
C858	0CE108DH618	1000UF STD 25V M FL TP5
C859	0CE477DJ618	470UF STD 35V 20% FL TP 5
C860	0CE227DP61A	220UF STD 160V 20% FL TP 7.5
C861	0CE108DF618	1000UF STD 16V M FL TP5
C862	0CE107DF618	100UF STD 16V M FL TP5
C865	0CE107CP618	100U SHL 160V M FL TP5
C866	0CE477DF618	470UF STD 16V 20% FL TP 5
C867	0CE477DH618	470UF STD 25V M FL TP5
C868	0CE228DF618	2200UF STD 16V M FL TP5
C869	181-091C	DEHR33A471KN2A 470PF 1KV 10%,-
C870	0CQ1031N509	0.01U 100V K POLY TP
C871	0CE106DF618	10UF STD 16V M FL TP5
C872	0CE106BF618	10UF KME 16V M FL TP5
C874	0CE477DF618	470UF STD 16V 20% FL TP 5
C875	0CE228DD618	2200UF STD 10V M FL TP5
C876	0CE474CK636	0.47UF SHL,SD 50V 20% FM5 BP(D
C901	0CE475DR618	4.7UF STD 250V 20% FL TP 5
C902	0CQ1044R539	0.1UF TE 250V K M/PE NI TP5
C903	0CK12202510	1200P 2KV K B S
C904	0CE475DR618	4.7UF STD 250V 20% FL TP 5
C905	0CN5610K519	560P 50V K B TA52

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LOCA. NO	PART NO	DESCRIPTION
COIL & TRANSFORMER		
J275	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L01	0LA1000K139	INDUCTOR,100UH K 4*10.5 TP
L02	0LA1000K139	INDUCTOR,100UH K 4*10.5 TP
L03	0LA1000K139	INDUCTOR,100UH K 4*10.5 TP
L04	0LA1000K139	INDUCTOR,100UH K 4*10.5 TP
L05	0LA1000K139	INDUCTOR,100UH K 4*10.5 TP
L06	0LA0821K119	INDUCTOR,8.2UH K 2.3*3.4 TP
L07	0LA0222K119	INDUCTOR,22UH K 2.3*3.4 TP
L10	0LA1000K119	INDUCTOR,100UH K 2.3*3.4 TP
L21J	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L22J	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L23J	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L25J	0LA0101K119	INDUCTOR,1.0UH K 2.3*3.4 TP
L205	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L206	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L207	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L209	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L300	0LA0222K119	INDUCTOR,22UH K 2.3*3.4 TP
L301	0LA0562K119	INDUCTOR,56UH K 2.3*3.4 TP
L302	0LA0332K119	INDUCTOR,33UH K 2.3*3.4 TP
L303	0LA0222K119	INDUCTOR,22UH K 2.3*3.4 TP
L306	0LA0222K119	INDUCTOR,22UH K 2.3*3.4 TP
L307	0LA0222K119	INDUCTOR,22UH K 2.3*3.4 TP
L309	0LA0272K119	INDUCTOR,27UH K 2.3*3.4 TP
L391	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L501	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L502	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L503	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L506	0LA0102K119	INDUCTOR,10UH K 2.3*3.4 TP
L590	0LA1000K119	INDUCTOR,100UH K 2.3*3.4 TP
L781	150-L02C	COIL,LINEARITY 170UH PHY TURN
L851	150-C02E	COIL,CHOKE 50UH R 1217
R542	0LA0681K119	INDUCTOR,6.8UH K 2.3*3.4 TP
R543	0LA0681K119	INDUCTOR,6.8UH K 2.3*3.4 TP
R544	0LA0681K119	INDUCTOR,6.8UH K 2.3*3.4 TP
R783	0LA0101K119	INDUCTOR,1.0UH K 2.3*3.4 TP
T300	633-032N	COIL,IFT BIAC OSC DEO-010 KSE
T701	6174Z-6040C	FBT FTMPNG1 -6040C
T781	6170VC0003C	TRANSFORMER,H-DRIVER DRUM 10*12
T801	151-A13J	TRANSFORMER,SMPS EER4215 700UH STR-6707
CONNECTOR		
P01	561-234V	CONNECTOR),GF120-07S-TS LGC 7PIN 1.25MM S
P04	6630R2S011A	CONNECTOR),TMC-T02X-C1 TAIKO 2PIN 2.5MM S
P21J	366-932C	CONNECTOR,2.5MM 4P GIL-G LG CABLE S (STI
P22J	366-932B	CONNECTOR,2.5MM 3P GIL-G LG CABLE S (STI
P23J	387-A03D	CONNECTOR ASSY,3P (L=250)
P100	366-009D	CONNECTOR,2.36PAI 1P . K/M AUTO
P202	387-A04C	CONNECTOR ASSY,4P (L=200)
P301	6630R5S008E	CONNECTOR,06(11)FM22.5H-BTR JST 6PIN 1MM
P302	561-251B	CONNECTOR GB201-2P-TS-B(LGC)

LOCA. NO	PART NO	DESCRIPTION
P303	561-234Z	CONNECTOR GF120-3S-TS-A LGC 3PIN 1.25MM
P602	366-932B	CONNECTOR,2.5MM 3P GIL-G LG CABLE S (STI
P701	366-043K	CONNECTOR,PLUG(4P)
P703	366-009D	CONNECTOR,2.36PAI 1P . K/M AUTO
P801	366-043B	CONNECTOR,ASSY,PLUG(2P)
P802	366-043B	CONNECTOR,ASSY,PLUG(2P)
P802	366-043B	CONNECTOR,ASSY,PLUG(2P)
P803	366-043B	CONNECTOR,ASSY,PLUG(2P)
P804	6602V25004L	CONNECTOR,2.5MM 12P GT250 LG CABLE S
P804A	6631V25017G	CONNECTOR ASSY,2.5MM 12P(L=400) GT250(H) TO G
P805	6602V25004M	CONNECTOR,2.5MM 13P GT250 LG CABLE S
P805A	6631V25A14H	CONNECTOR ASSY,13P 450MM H-B UL 1007 AWG 26 T
P901	6602V25004D	CONNECTOR,GT250 LGC 5 2.5 .
P901A	6631V25A13G	CONNECTOR ASSY,5P 400MM H-T UL 1007 AWG 26 TW
P902	366-932D	CONNECTOR,2.5MM 5P GIL-G LG CABLE S (STI
P903	366-009D	CONNECTOR,2.36PAI 1P . K/M AUTO
PD04	6630R2P005C	CONNECTOR,TMC-J08P-A1 TAIKO 8PIN 2MM STR
RESISTOR		
F851	180-D02Y	0.045 OHM 1/2 W 10% TA52 (MFR)
F852	180-D02Y	0.045 OHM 1/2 W 10% TA52 (MFR)
F853	180-D02Y	0.045 OHM 1/2 W 10% TA52 (MFR)
FR701	0RF0470J607	0.47 OHM 1 W 5.00% TA62
FR702	0RF0470J607	0.47 OHM 1 W 5.00% TA62
FR851	0RF0470H609	0.47 OHM 1/2 W 5.00% TA52
FR854	0RF0101J607	1 OHM 1 W 5.00% TA62
FR901	0RF0680J607	0.68 OHM 1 W 5.00% TA62
FR902	0RF0121J607	1.2 OHM 1 W 5.00% TA62
R01	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R02	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R03	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R04	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R06	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R08	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R09S	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R09	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R10	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R11	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R12	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R14	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R17	0RD5601F609	5.6K OHM 1/6 W 5.00% TA52
R18	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R20	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R21J	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R22	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R22J	0RD2203F609	220K OHM 1/6 W 5.00% TA52
R23	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R24J	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R24	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R25J	0RD2000F609	200 OHM 1/6 W 5.00% TA52
R25	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R26J	0RD2000F609	200 OHM 1/6 W 5.00% TA52
R26	0RD2200F609	220 OHM 1/6 W 5.00% TA52

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LOCA. NO	PART NO	DESCRIPTION
R27	0RD1002F609	10K OHM 1/6 W 5.00% TA52
R27J	0RD4300F609	430 OHM 1/6 W 5.00% TA52
R28	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R31	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R33	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R38	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R42	0RD3300F609	330 OHM 1/6 W 5.00% TA52
R43	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R45	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R46	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R55	0RD5600F609	560 OHM 1/6 W 5.00% TA52
R57	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R59	0RD1801F609	1.8K OHM 1/6 W 5.00% TA52
R67	0RD8201F609	8.2K OHM 1/6 W 5.00% TA52
R68	0RD1801F609	1.8K OHM 1/6 W 5.00% TA52
R69	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R74	0RD5602F609	56K OHM 1/6 W 5.00% TA52
R77	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R90	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R92	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R97	0RD5601F609	5.6K OHM 1/6 W 5.00% TA52
R98	0RD5601F609	5.6K OHM 1/6 W 5.00% TA52
R99	0RS0561K607	5.6 OHM 2 W 5.00% TA62
R102	0RD1001H609	1K OHM 1/2 W 5.00% TA52
R110	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R122	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R125	0RD1004F609	1M OHM 1/6 W 5.00% TA52
R147	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R148	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R149	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R153	0RD1002F609	10K OHM 1/6 W 5.00% TA52
R154	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R155	0RS0152K607	15 OHM 2 W 5.00% TA62
R205	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R207	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R208	0RD1502F609	15K OHM 1/6 W 5.00% TA52
R214	0RD4700F609	470 OHM 1/6 W 5.00% TA52
R219	0RD0682F609	68 OHM 1/6 W 5.00% TA52
R220	0RD5101F609	5.1K OHM 1/6 W 5.00% TA52
R221	0RD5101F609	5.1K OHM 1/6 W 5.00% TA52
R224	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R233	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R235	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R241	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R246	0RD1002F609	10K OHM 1/6 W 5.00% TA52
R247	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R249	0RD1002F609	10K OHM 1/6 W 5.00% TA52
R302	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R309	0RD5600F609	560 OHM 1/6 W 5.00% TA52
R319	0RD1002F609	10K OHM 1/6 W 5.00% TA52
R333	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R334	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R348	0RD1001F609	1K OHM 1/6 W 5.00% TA52

LOCA. NO	PART NO	DESCRIPTION
R360	0RD2202F609	22K OHM 1/6 W 5.00% TA52
R361	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R363	0RD4702F609	47K OHM 1/6 W 5.00% TA52
R364	0RD4702F609	47K OHM 1/6 W 5.00% TA52
R365	0RD4702F609	47K OHM 1/6 W 5.00% TA52
R380	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R381	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R382	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R503	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R504	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R511	0RN3902F409	39K OHM 1/6 W 1.00% TA52
R513	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R515	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R516	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R517	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R519	0RD3001F609	3K OHM 1/6 W 5.00% TA52
R520	0RD1003F609	100K OHM 1/6 W 5.00% TA52
R521	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R522	0RD8201F609	8.2K OHM 1/6 W 5.00% TA52
R531	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R537	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R541	0RD1002F609	10K OHM 1/6 W 5.00% TA52
R546	0RD1203F609	120K OHM 1/6 W 5.00% TA52
R550	0RD2701F609	2.7K OHM 1/6 W 5.00% TA52
R551	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52
R552	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R558	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R601	0RD1003F609	100K OHM 1/6 W 5.00% TA52
R602	0RD1003F609	100K OHM 1/6 W 5.00% TA52
R603	0RD5102F609	51K OHM 1/6 W 5.00% TA52
R604	0RS0221H609	2.2 OHM 1/2 W 5.00% TA52
R605	0RD6802F609	68K OHM 1/6 W 5.00% TA52
R606	0RD8201F609	8.2K OHM 1/6 W 5.00% TA52
R607	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R608	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R609	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R610	0RD1201F609	1.2K OHM 1/6 W 5.00% TA52
R701	0RD4701H609	4.7K OHM 1/2 W 5.00% TA52
R702	0RS5101H609	5.1K OHM 1/2 W 5.00% TA52
R703	0RD1501F609	1.5K OHM 1/6 W 5.00% TA52
R704	0RD2003H609	200K OHM 1/2 W 5.00% TA52
R705	0RS1001H609	1K OHM 1/2 W 5.00% TA52
R731	0RD0101F609	1 OHM 1/6 W 5.00% TA52
R732	0RN1201F409	1.2K OHM 1/6 W 1.00% TA52
R734	0RD1201F609	1.2K OHM 1/6 W 5.00% TA52
R735	0RD0201H609	2 OHM 1/2 W 5.00% TA52
R736	0RD0271H609	2.7 OHM 1/2 W 5.00% TA52
R737	0RD1801F609	1.8K OHM 1/6 W 5.00% TA52
R738	0RD4701H609	4.7K OHM 1/2 W 5.00% TA52
R739	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52
R740	0RD1002F609	10K OHM 1/6 W 5.00% TA52
R741	0RS2700K607	270 OHM 2 W 5.00% TA62
R744	0RD1002F609	10K OHM 1/6 W 5.00% TA52

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LOCA. NO	PART NO	DESCRIPTION
R782	0RD0221H609	2.2 OHM 1/2 W 5.00% TA52
R784	0RD6800F609	680 OHM 1/6 W 5.00% TA52
R785	0RD5100H609	510 OHM 1/2 W 5.00% TA52
R786	0RD0392H609	39 OHM 1/2 W 5.00% TA52
R787	0RD1501H609	1.5K OHM 1/2 W 5.00% TA52
R788	0RS2702K607	27K OHM 2 W 5.00% TA62
R789	0RD0470H609	0.47 OHM 1/2 W 5.00% TA52
R801	180-A03A	RW RECT G 5W 2.20 J DOUBLE
R805	0RS5602K607	56K OHM 2 W 5.00% TA62
R806	0RS5602K607	56K OHM 2 W 5.00% TA62
R807	0RS1202H609	12K OHM 1/2 W 5.00% TA52
R808	0RD1801F609	1.8K OHM 1/6 W 5.00% TA52
R809	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R810	0RS0222K607	22 OHM 2 W 5.00% TA62
R811	180-A01H	RW ROUND G 2W 0.27 J TA31(63)
R812	0RD5600F609	560 OHM 1/6 W 5.00% TA52
R813	0RKZVTA001C	8.2M OHM 1/2 W 5% TA52 UL PILK
R816	0RD3900F609	390 OHM 1/6 W 5.00% TA52
R821	0RD6801H609	6.8K OHM 1/2 W 5.00% TA52
R822	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R823	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R824	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R825	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R851	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R852	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R853	0RD2001F609	2K OHM 1/6 W 5.00% TA52
R854	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R855	0RD1001F609	1K OHM 1/6 W 5.00% TA52
R856	0RD1002F609	10K OHM 1/6 W 5.00% TA52
R857	0RD4701F609	4.7K OHM 1/6 W 5.00% TA52
R858	0RS0680K607	0.68 OHM 2 W 5.00% TA62
R860	0RS4700J607	470 OHM 1 W 5.00% TA62
R865	0RF0680K607	0.68 OHM 2 W 5.00% TA62
R866	0RS0470J607	0.47 OHM 1 W 5.00% TA62
R867	0RS0470K607	0.47 OHM 2 W 5.00% TA62
R870	0RD1002F609	10K OHM 1/6 W 5.00% TA52
R871	0RD2002F609	20K OHM 1/6 W 5.00% TA52
R872	0RD2002H609	20K OHM 1/2 W 5.00% TA52
R873	0RD1001H609	1K OHM 1/2 W 5.00% TA52
R874	0RS0102J607	10 OHM 1 W 5.00% TA62
R875	0RD5601F609	5.6K OHM 1/6 W 5.00% TA52
R903	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R904	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R905	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R906	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R907	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R908	0RD1000F609	100 OHM 1/6 W 5.00% TA52
R909	0RS1501H609	1.5K OHM 1/2 W 5.00% TA52
R910	0RS1501H609	1.5K OHM 1/2 W 5.00% TA52
R911	0RS1501H609	1.5K OHM 1/2 W 5.00% TA52
R912	0RD2204H609	2.2M OHM 1/2 W 5.00% TA52
RA07	0RD3902F609	39K OHM 1/6 W 5.00% TA52
RA11	0RD3902F609	39K OHM 1/6 W 5.00% TA52
RA20	0RD4700F609	470 OHM 1/6 W 5.00% TA52
RA22	0RD5600F609	560 OHM 1/6 W 5.00% TA52
RA23	0RD4700F609	470 OHM 1/6 W 5.00% TA52
RA30	0RD2700F609	270 OHM 1/6 W 5.00% TA52
RA33	0RD1202F609	12K OHM 1/6 W 5.00% TA52
RA34	0RD1000F609	100 OHM 1/6 W 5.00% TA52
VR01	180-F03M	EVN-DJAA03 B204 SEMI-FIX(H) TA

SWITCH

P03	6600RPY001B	SWITCH,DRAWING MMS00420ZMBO MIC NON 5V 1MA VE
SW01	6600RDB004C	SWITCH,DRAWING MPU10252MLB5 MIC 5VDC 1mA HORI
SW03	140-315F	SWITCH,TACT 4LEAD EVQPC605K MATSUSHIT
SW04	140-315F	SWITCH,TACT 4LEAD EVQPC605K MATSUSHIT
SW05	140-315F	SWITCH,TACT 4LEAD EVQPC605K MATSUSHIT
SW06	140-315F	SWITCH,TACT 4LEAD EVQPC605K MATSUSHIT
SW07	140-315F	SWITCH,TACT 4LEAD EVQPC605K MATSUSHIT
SW08	140-315F	SWITCH,TACT 4LEAD EVQPC605K MATSUSHIT
SW11	140-315F	SWITCH,TACT 4LEAD EVQPC605K MATSUSHIT
SW12	140-315F	SWITCH,TACT 4LEAD EVQPC605K MATSUSHIT
SW13	140-315F	SWITCH,TACT 4LEAD EVQPC605K MATSUSHIT
SW14	140-315F	SWITCH,TACT 4LEAD EVQPC605K MATSUSHIT
SW804	6600VM1001A	SWITCH,PUSH SDKLA1 UL/CSA 250V 5A VER

FILTER & CRYSTAL

FB801	125-022K	FILTER(CIRC),FERRITE 1UH TAPING
FB802	125-123A	FILTER(CIRC),FERRITE BFD3565R2F
FB803	125-022K	FILTER(CIRC),FERRITE 1UH TAPING
FB851	125-022K	FILTER(CIRC),FERRITE 1UH TAPING
L24J	125-022K	FILTER(CIRC),FERRITE 1UH TAPING
L222	125-022K	FILTER(CIRC),FERRITE 1UH TAPING
L801	150-F06H	FILTER(CIRC),LINE FILTER SQE2930 30MH
T301	150-B05C	FILTER(CIRC),L/C FILTER(07S) LPF
X01	156-A08A	RESONATOR,CRYSTAL HC49U DISHINKU RADIAL 32.768KH
X02	156-A01T	RESONATOR,CRYSTAL HC49U SUNNY RADIAL 10.000MHZ 3
X301	6202R1443AC	RESONATOR,CRYSTAL X-TAL 4.433709M 15PPM SER KJE
X501	156-A02B	RESONATOR,CRYSTAL HC49U KJE RADIAL 12.000MHZ 30P

ACCESSORIES

A1	3828VA0315D	MANUAL,OWNERS MV025A UK/WTY LG EN 032C/E TX
A2	6710V00032E	REMOTE CONTROLLER,W/TXT,1 TUNER,48KE
A2	6710V00032C	REMOTE CONTROLLER,W/O TXT

MISCELLANEOUS

F801	0FS4001B53C	FUSE,SLOW BLOW 4000MA 250 V 5.2X20 CY/CE SEMK
JK25J	6613V00012A	JACK ASSY,PMJ019A A/V 2P(WH/YL
RC01	6726VV0006H	REMOTE CONTROLLER RECEIVER 38KHZ
S01	6500RAB002A	SENSOR GP1S566 SHARP D-33 REEL SENSOR
S02	6500RAB002A	SENSOR GP1S566 SHARP D-33 REEL SENSOR
S03	4930V00090A	HOLDER END SENSOR ASSY ,(33 DECK), 49
S04	4930V00090A	HOLDER END SENSOR ASSY ,(33 DECK), 49
SK901	6620VBC003A	SOCKET (CIRC),CPT PCS030A 8PIN 14/360
TH801	163-051F	THERMISTOR,J503P84D140M290Q JA HWA +/- 20
TU100	6700MF0001H	TUNER,TAFD-M232D LG MULTI FS 3SYS,2I

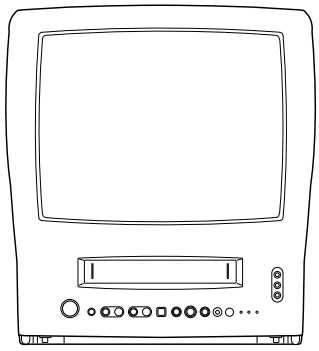
LOCA. NO	PART NO	DESCRIPTION
VA801	164-003K	VARISTOR,SVC621D-14A ILJIN 620V 0% UL/C

LOCA. NO	PART NO	DESCRIPTION

LG

SECTION 4 MECHANISM PART

TVCR SERVICE MANUAL



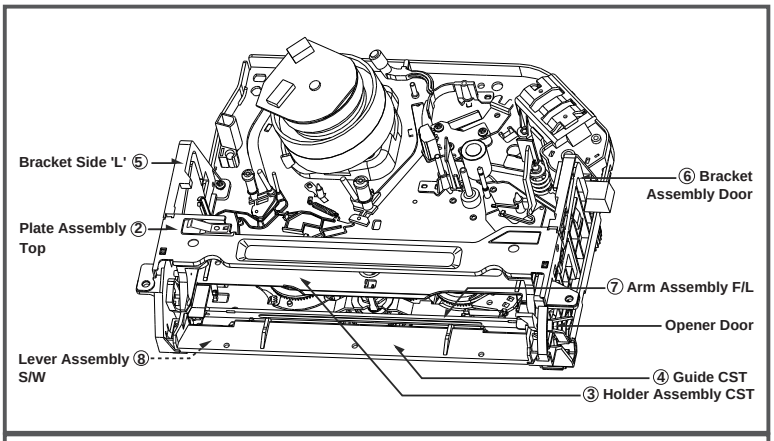
CONTENT

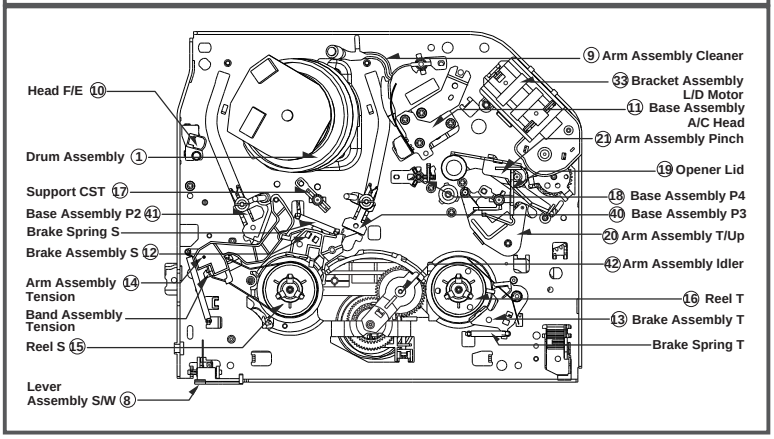
CHASSIS : MV-025A

MODEL : KE-14P21B/BX/S/SX

DECK MECHANISM PARTS LOCATIONS(FOR NORMAL MODELS)

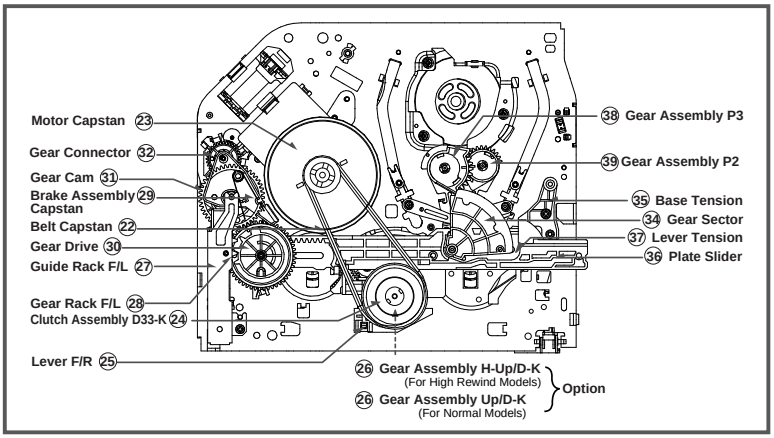
• Top View





Pracedure / Starting No.		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

• Bottom View



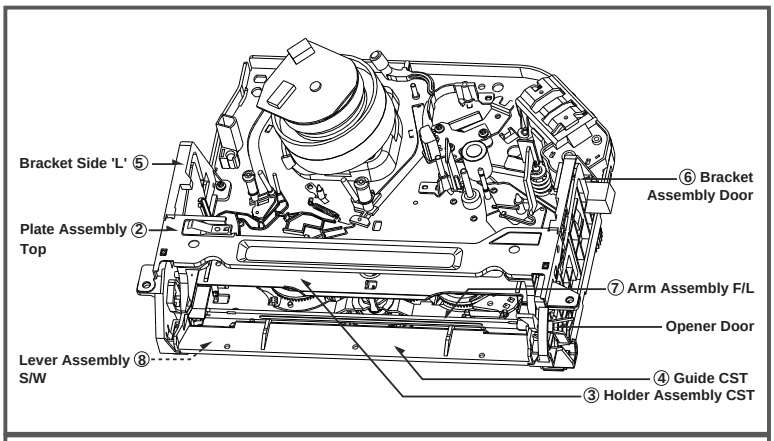
Pracedure / Starting No.		Part	Fixing Type	Figure
	22	Belt Capstan		A-6
22	23	Motor Capstan	3 Screws	A-6
	24	Clutch Assembly D33-K	1 Washer	A-6
22,24	25	Lever F/R	1 Hook	A-6
22,24	26	Gear H-Up/D-K	2 Washers	A-6
	27	Guide Rack F/L	1Screw	A-7
27	28	Gear Rack F/L		A-7
27, 28	29	Brake Assembly Capstan	Chassis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

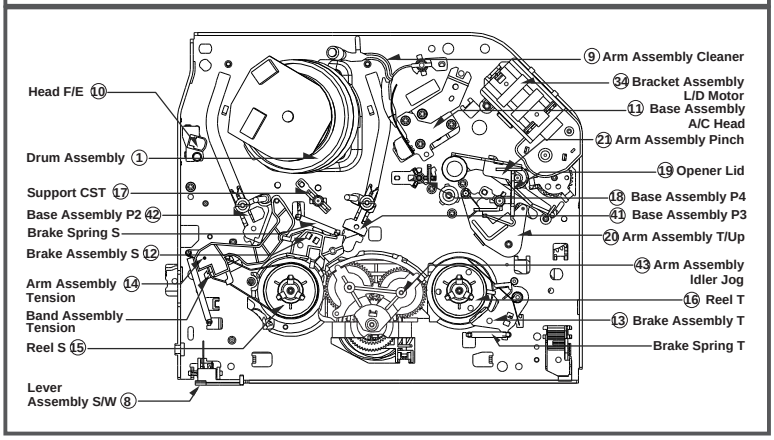
NOTE : When reassembly perform the procedure in the reverse order.

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.

DECK MECHANISM PARTS LOCATIONS(FOR JOG SHUTTLE MODELS)

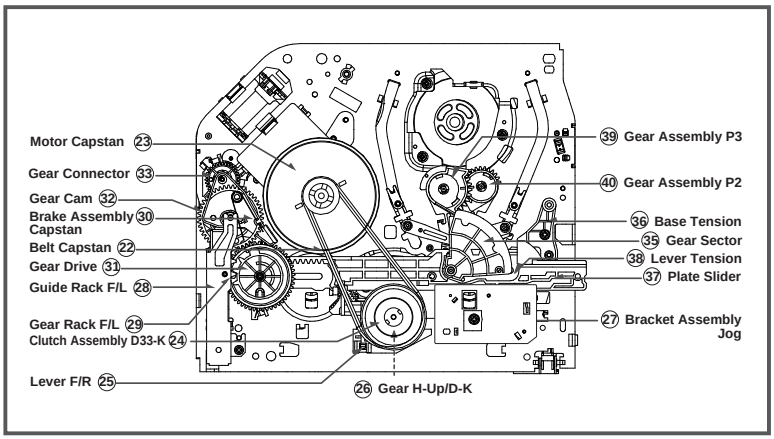
• Top View





Pracedure / Starting No.		Part	Fixing Type	Fig-ure
	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

• Bottom View



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

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.

DECK MECHANISM DISASSEMBLY

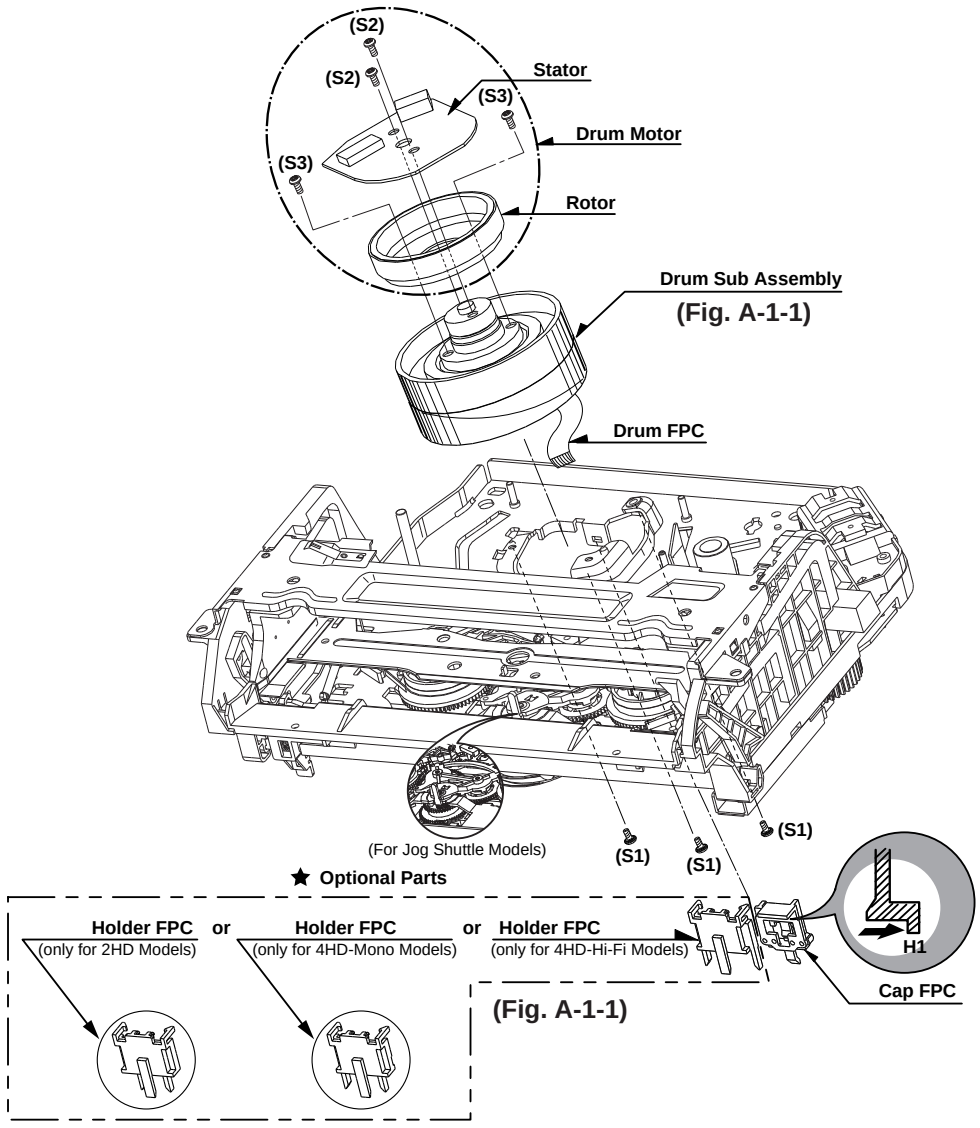


Fig. A-1

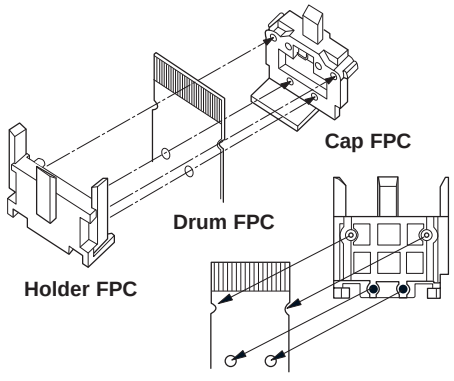
1. Drum Assembly (Fig. A-1-1)

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

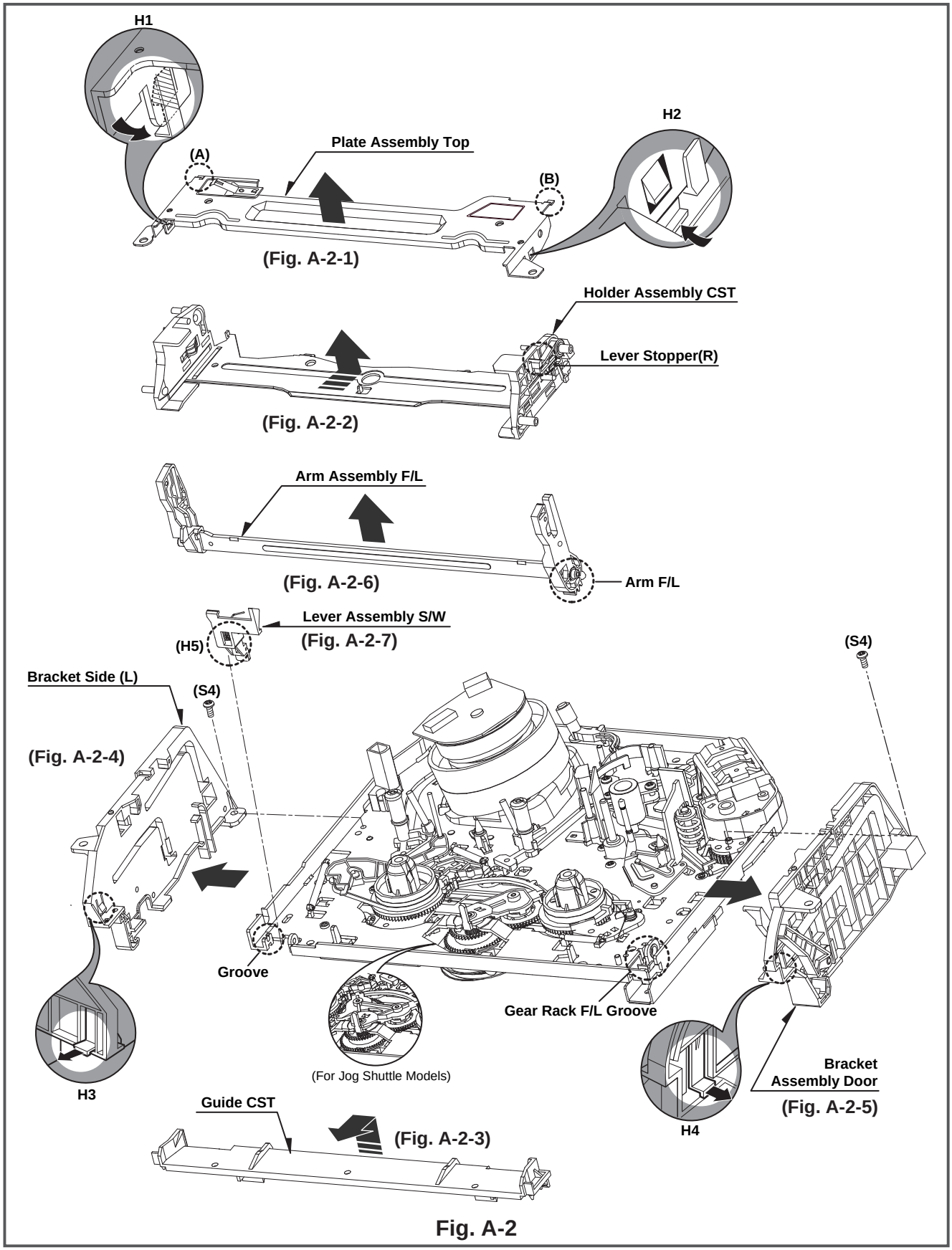


Fig. A-2

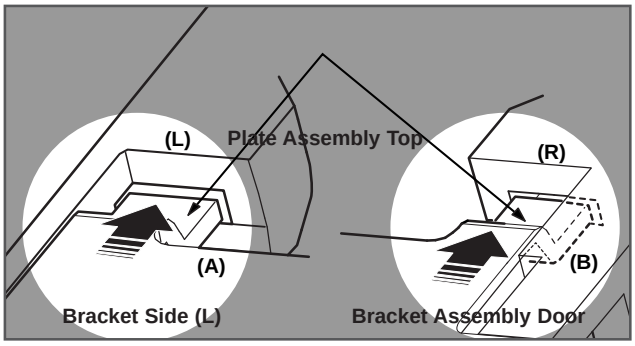
DECK MECHANISM DISASSEMBLY

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.

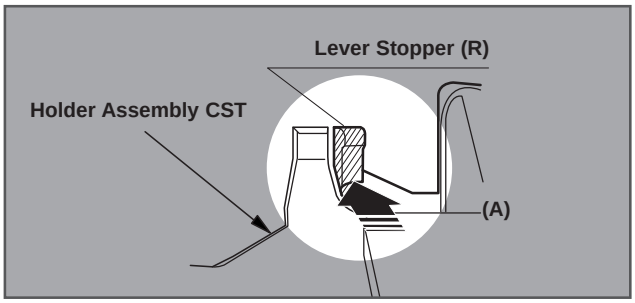
NOTE

(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.

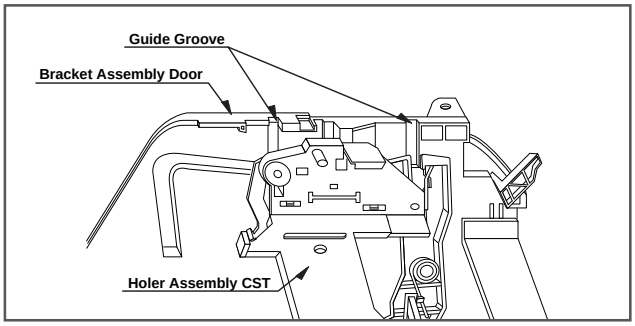


3. Holder Assembly CST (Fig.A-2-2)

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

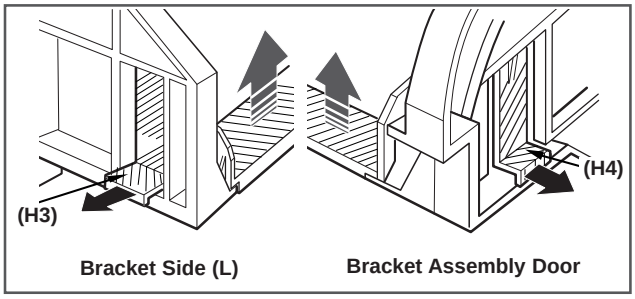


2) Push the Bracket Assembly Door to the right and lift up the Holder Assembly CST along the Guide Groove of the Bracket Assembly Door.



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)

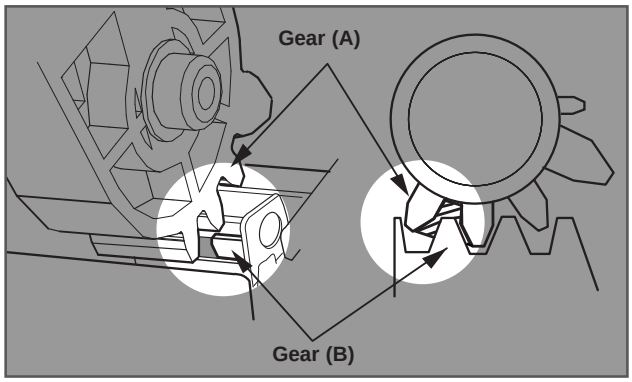
1) Remove the Screw (S4) and disassemble the Bracket Side(L) in the front.
2) Remove the Screw (S4) and disassemble the Bracket Assembly Door in the front.

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

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

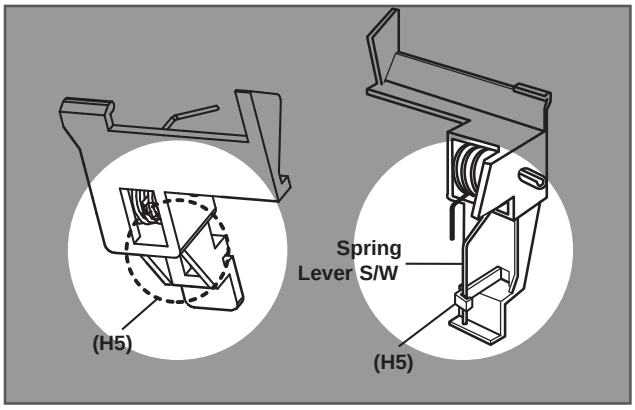
NOTE

(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

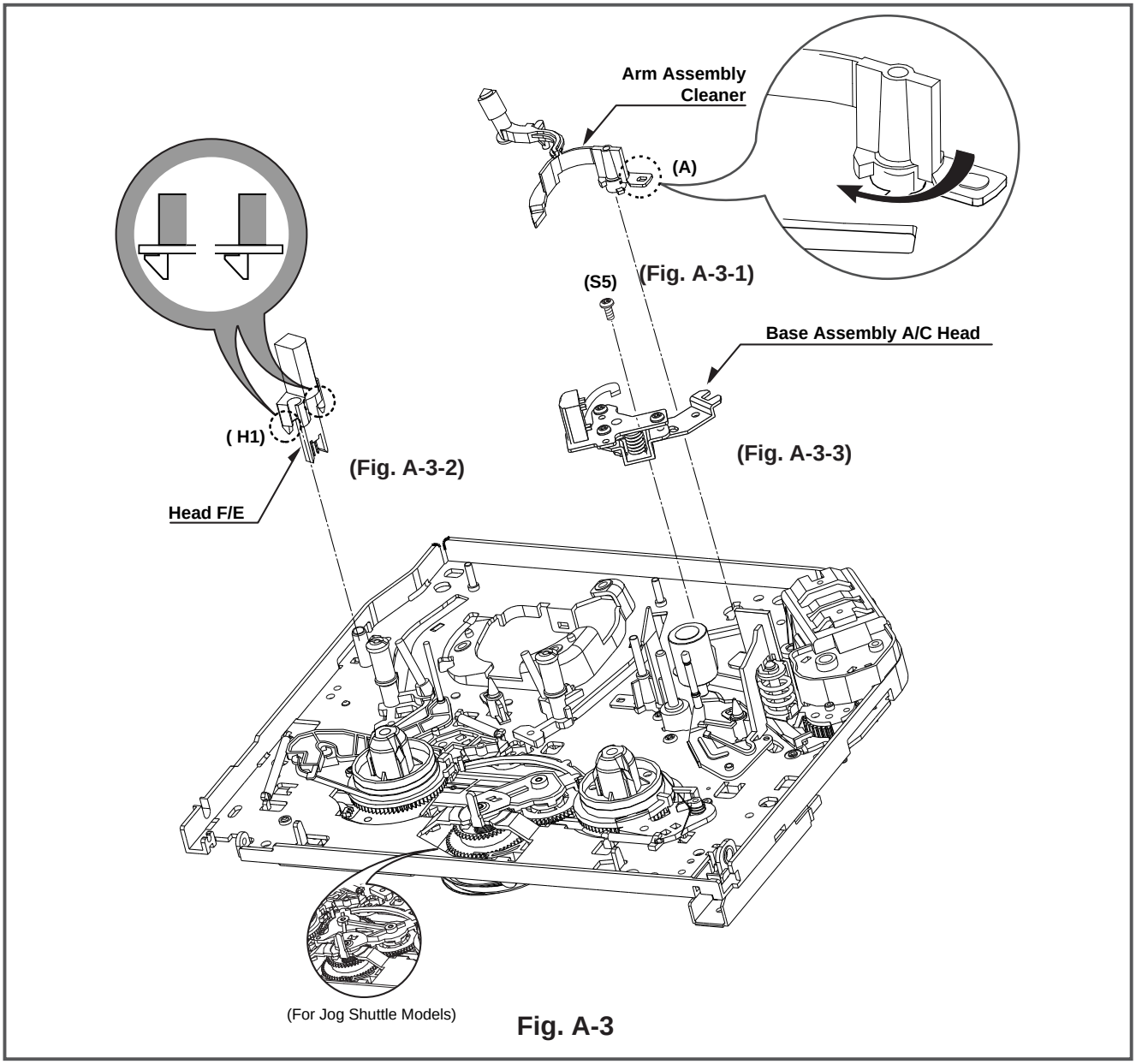
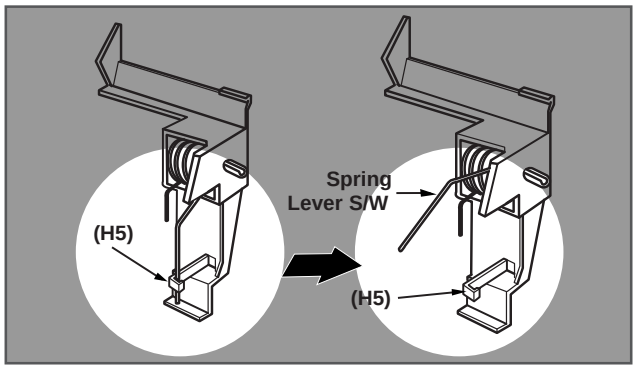


Fig. A-3

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

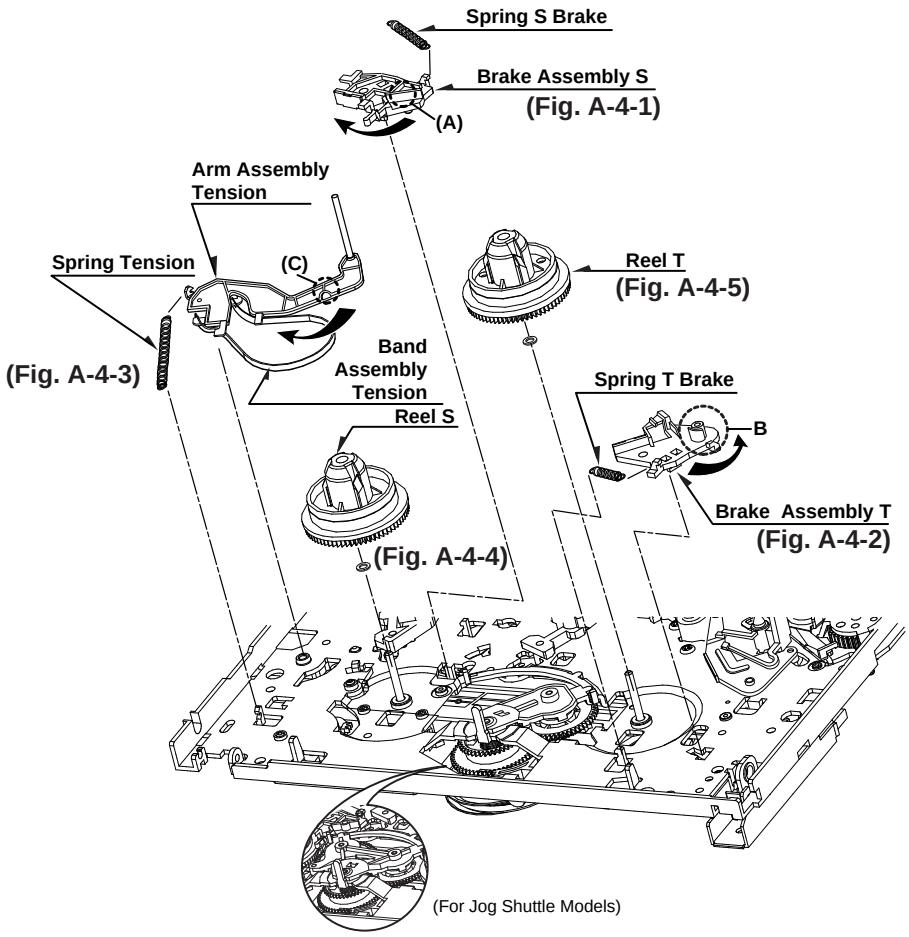


Fig. A-4

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

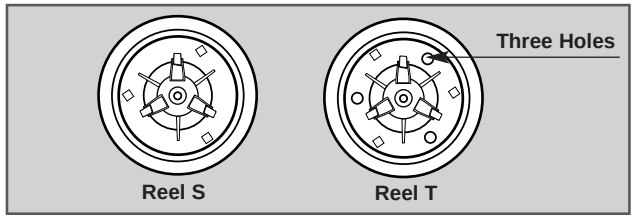
(1) When reassembling, be careful not to change the Spring with above No.11,12.(Refer to Fig. B-2).

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

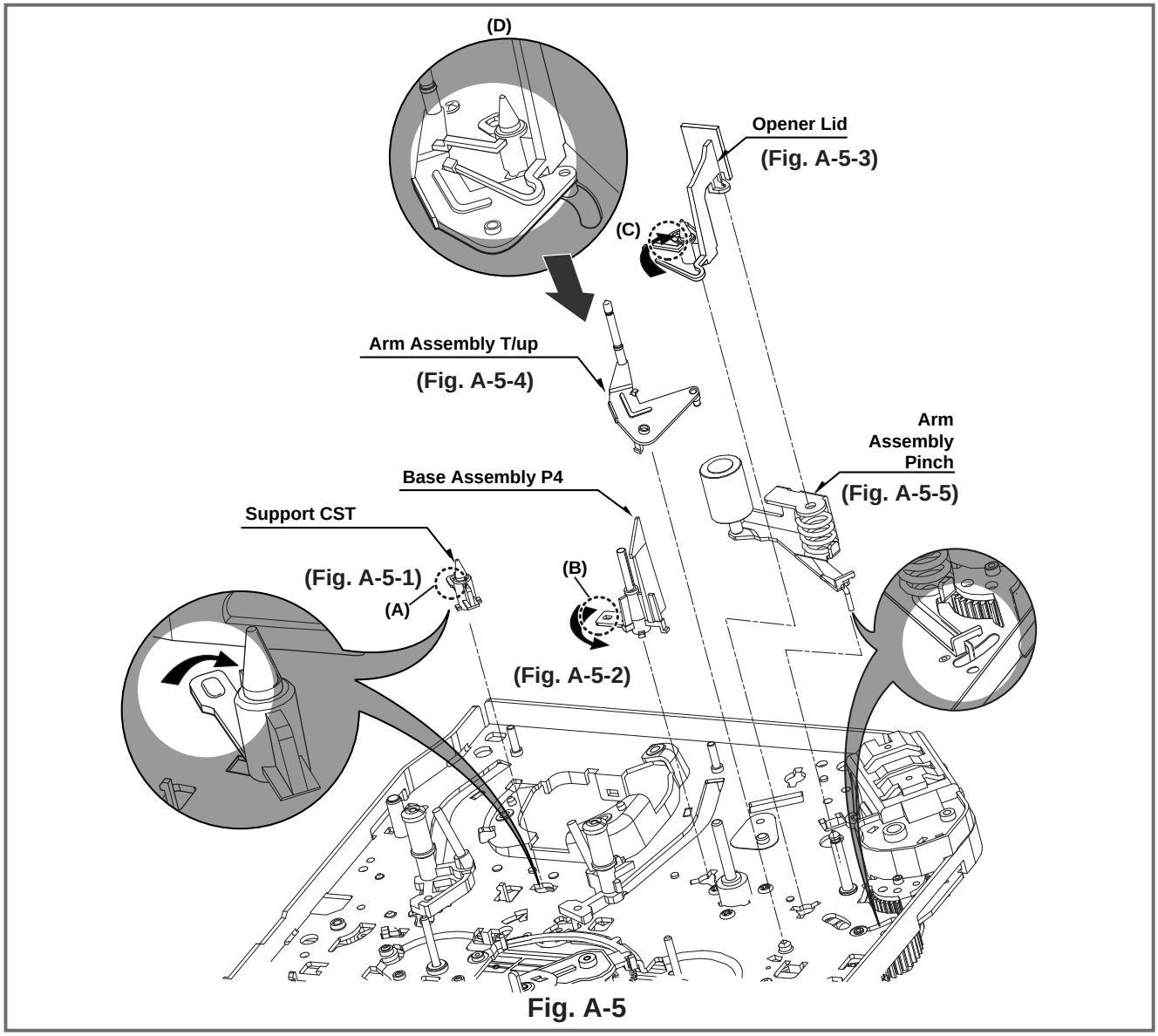


Fig. A-5

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)

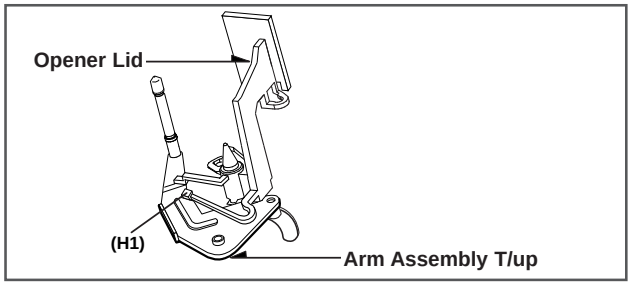
1) Break away the (C) Part of the Opener Lid from the Embossing of the Chassis in the Clockwise direction and lift up the Opener Lid.

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

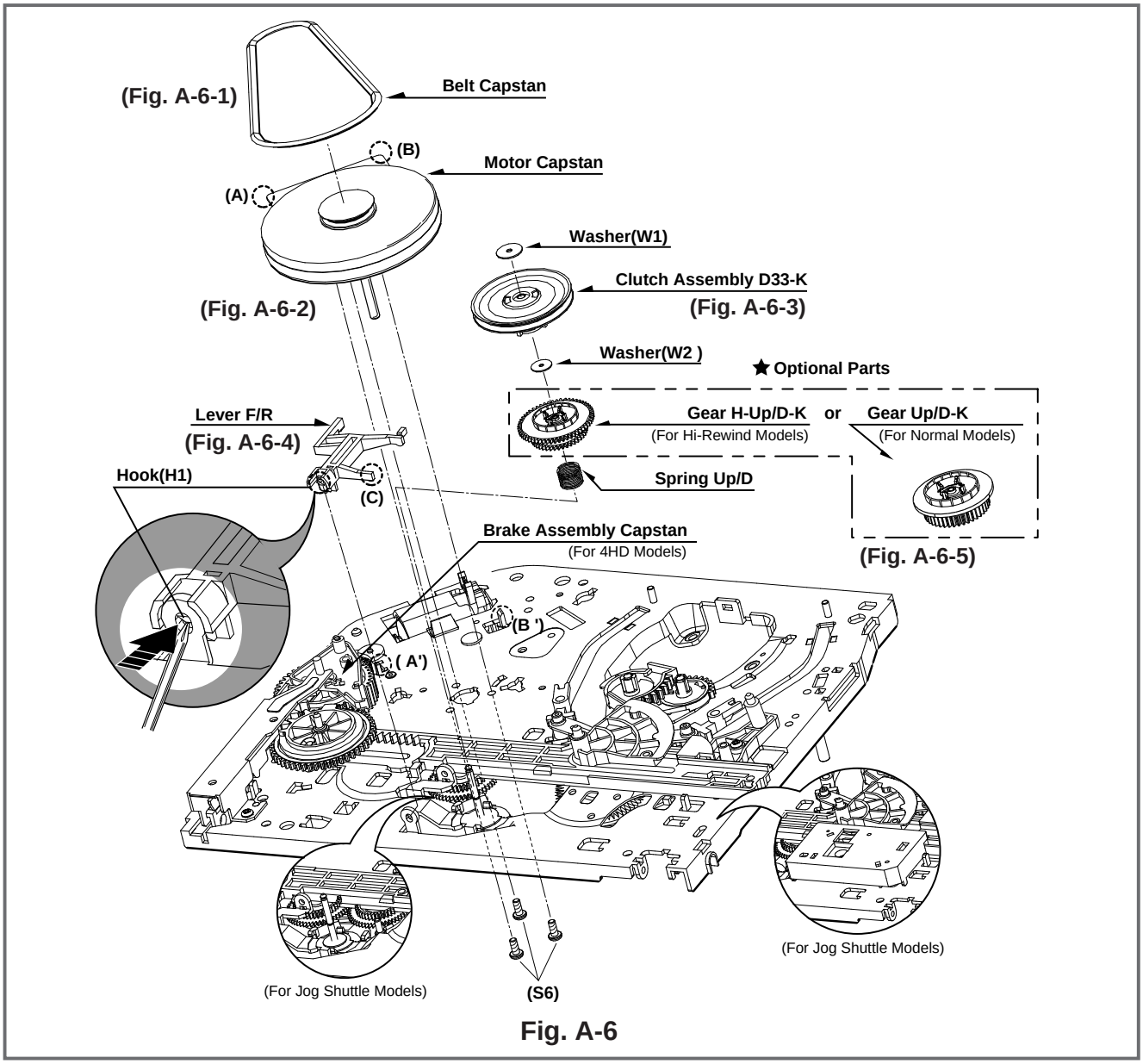


Fig. A-6

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

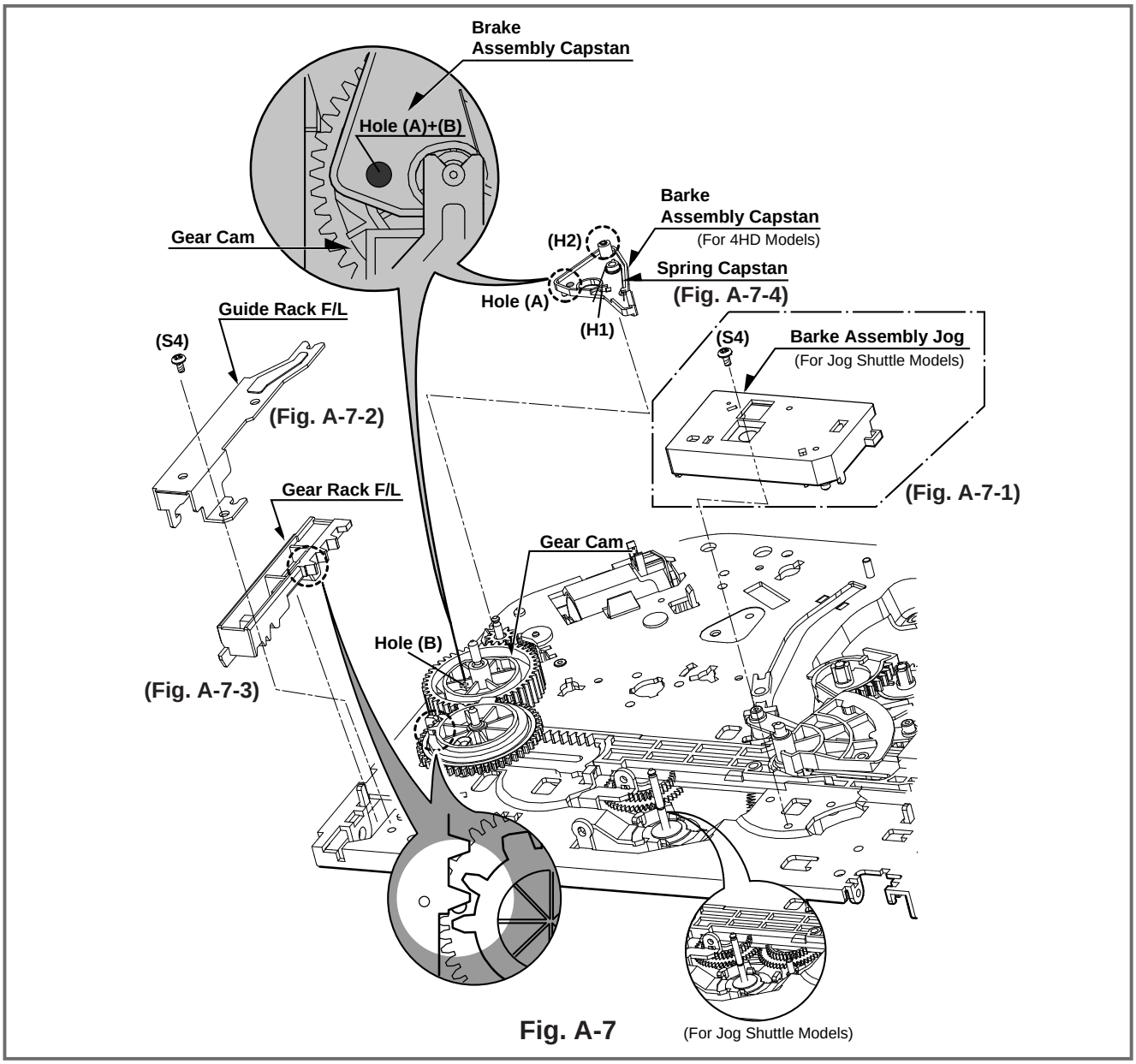


Fig. A-7

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

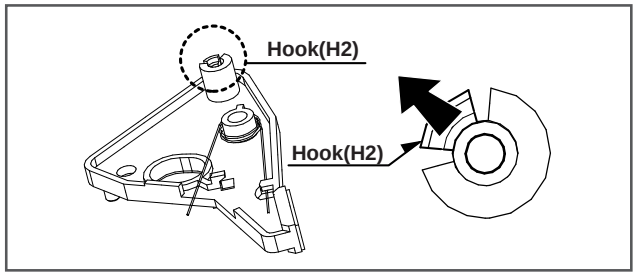
1) Remove the Screw(S4) and lift up the Bracket Assembly Jog.

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).

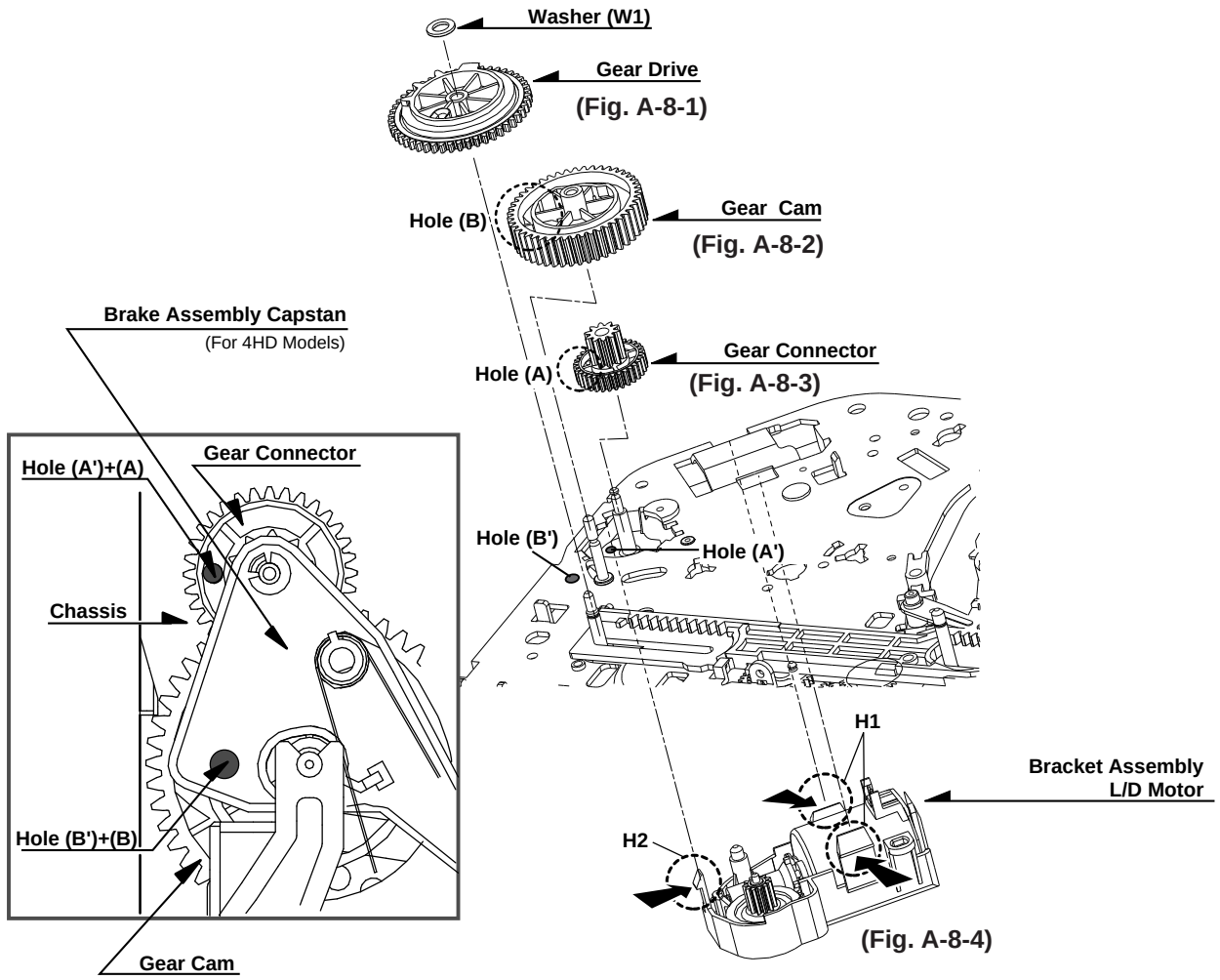


Fig. A-8

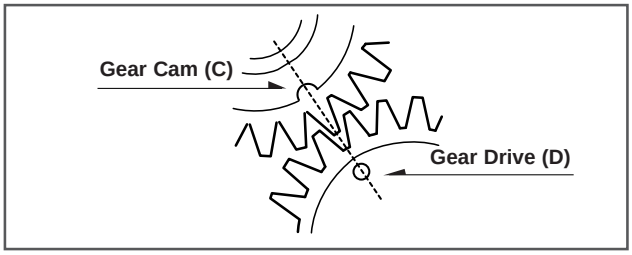
27. Gear Drive (Fig. A-8-1)/ Gear Cam (Fig. A-8-2)/ Gear Connector (Fig. A-8-3)

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

NOTE

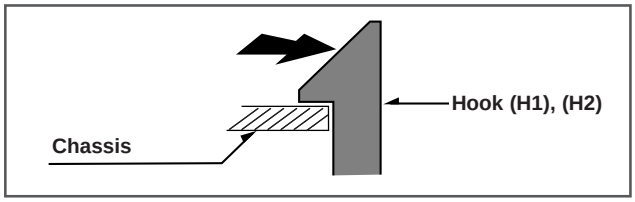
(1) When reassembling, confirm that the Hole (A) of the Gear Connector is aligned to the Hole (A') of the Chassis (Fig. A-8-3).
(2) When reassembling, confirm that the Hole (B) of the Gear Cam is aligned to the Hole (B') of the Chassis (Fig. A-8-2).
(3) When reassembling, confirm that the (C) part of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

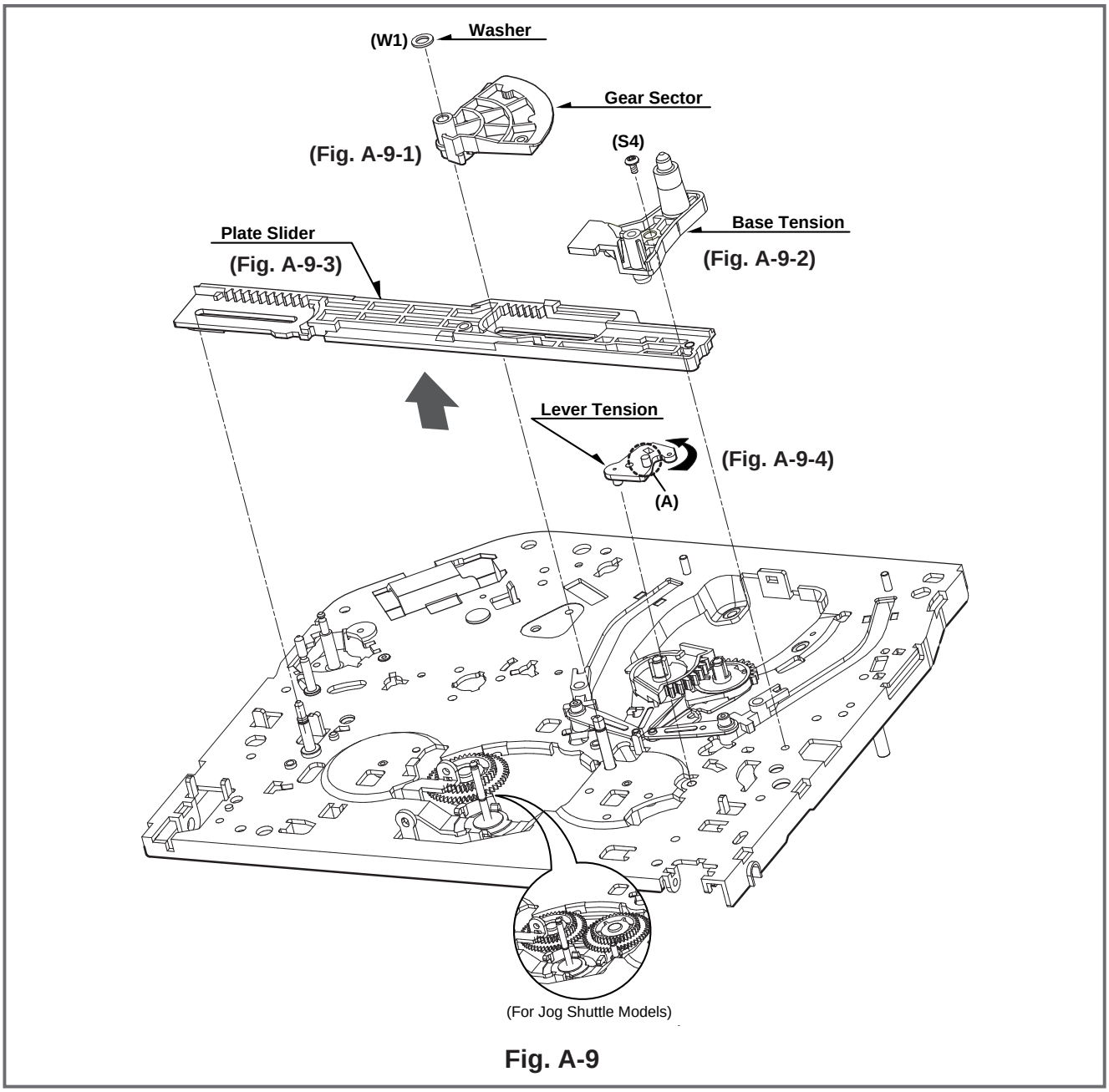


Fig. A-9

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

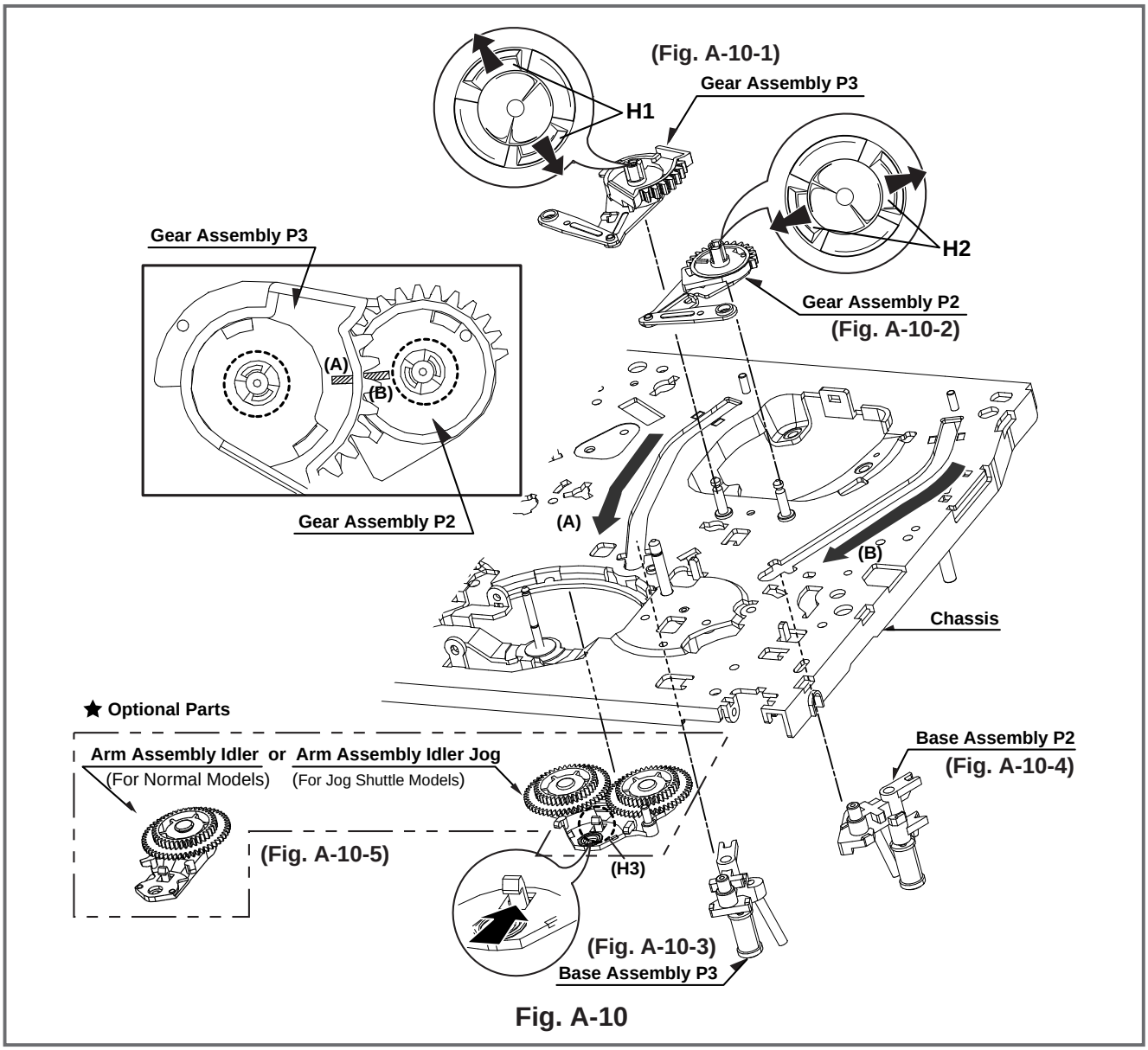


Fig. A-10

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)

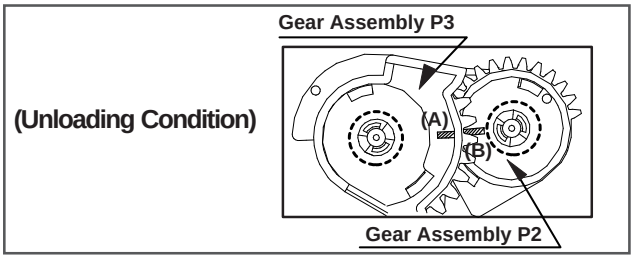
1) Unhook the Hook(H3) and push down the Arm Assembly Idler Jog.

NOTE

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

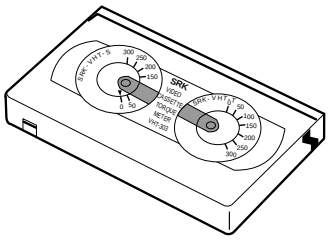
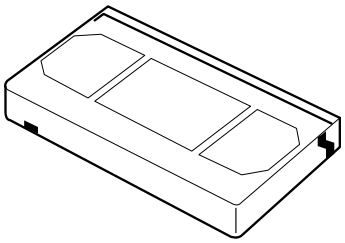
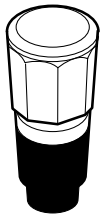
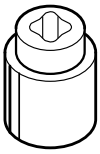
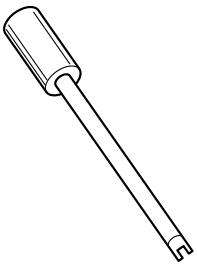
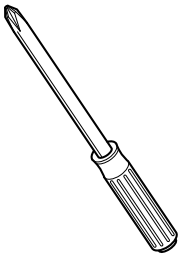
NOTE

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

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

DECK MECHANISM ADJUSTMENT(FOR NORMAL MODELS)

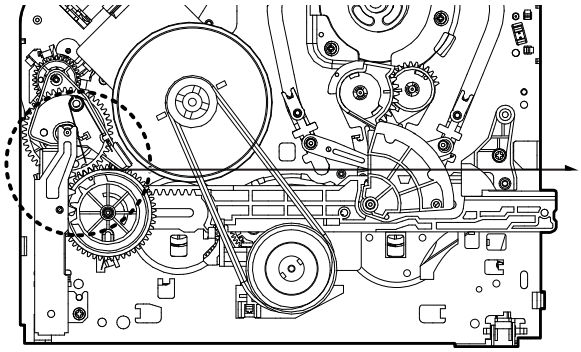
1.Mechanism Alignment Position Check

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

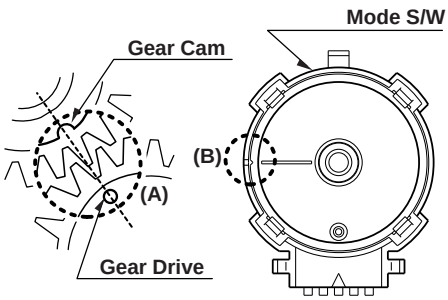
Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Check Point
• Blank tape	• Eject Mode (with Cassette ejected)	• Mechanism and Mode Switch Position

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

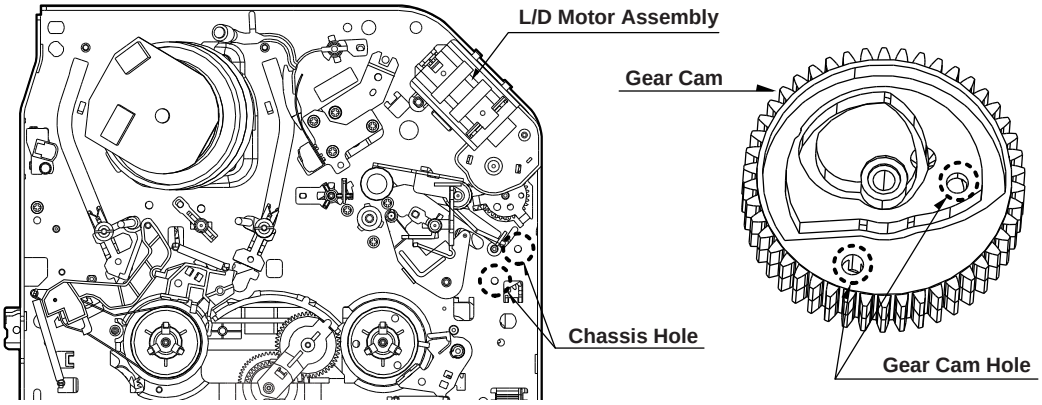


BOTTOM VIEW



Gear Cam (∩) and Gear Drive (o) groove alignment

Fig. C-1



TOP VIEW

Fig. C-2

DECK MECHANISM ADJUSTMENT(FOR JOG SHUTTLE MODELS)

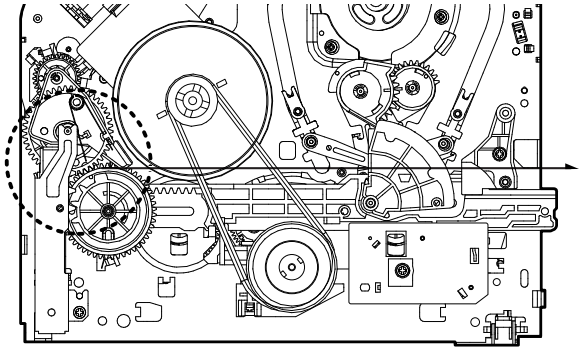
1.Mechanism Alignment Position Check

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

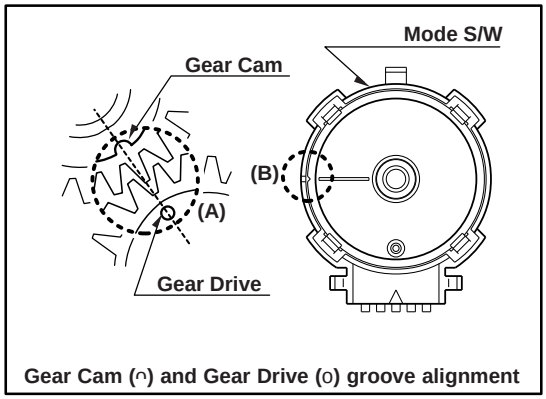
Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Check Point
• Blank tape	• Eject Mode (with Cassette ejected)	• Mechanism and Mode Switch Position

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

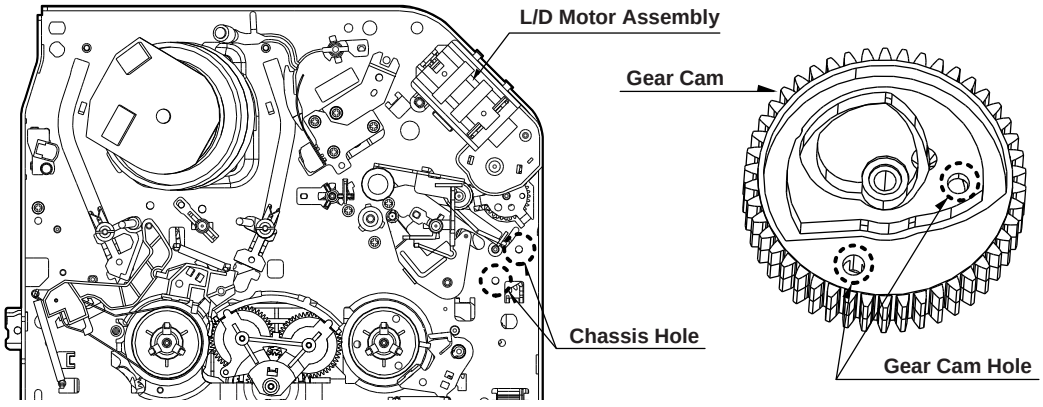


BOTTOM VIEW



Gear Cam (∩) and Gear Drive (o) groove alignment

Fig. C-1



TOP VIEW

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
• Torque Gauge(600g/cm ATG) • Torque Gauge Adaptor • Cassette Torque Meter SRK-VHT-303	• Play (FF) or Review (REW) Mode	• 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)

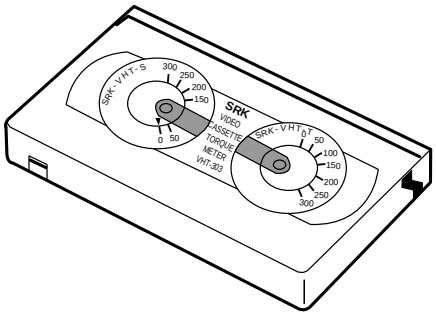


Fig. C-3-2

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)

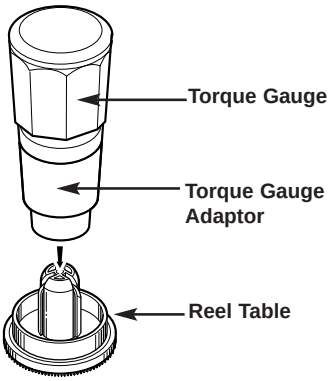


Fig. C-3-1

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
• Post Height Adjusting Driver	• Play or Review Mode	• Guide Roller Height Adjustment screws on the Supply and Take-Up Guide Rollers.

Adjustment Procedure

1) Confirm if the Tape runs along the Tape Guide Line of the Lower Drum.
2) If the Tape runs the Bottom of the Guide Line, turn the Guide Roller Height Adjustment Screw to Clockwise direction.
3) If it runs the Top, turn to Counterclockwise direction.
4) Adjust the Height of the Guide Roller to be guided to the Guide Line of the Lower Drum from the Starting and Ending Point of the Drum.

ADJUSTMENT DIAGRAM

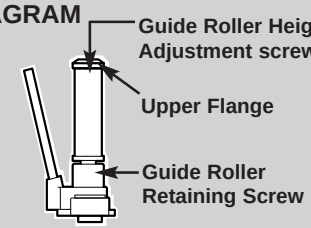


Fig. C-4-1

4-2. Precise Adjustment

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

Adjustment Procedure

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

NOTE

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

Waveform Diagrams

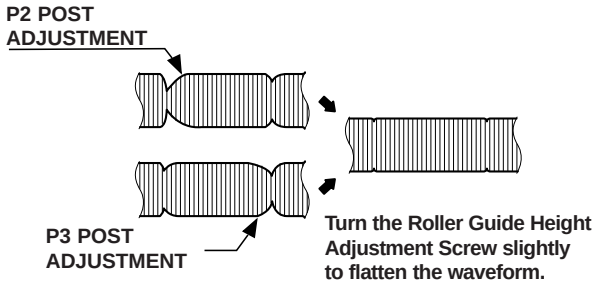


Fig. C-4-2

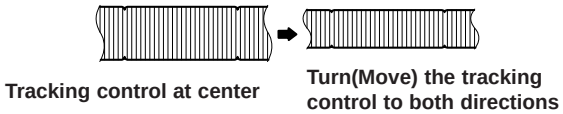
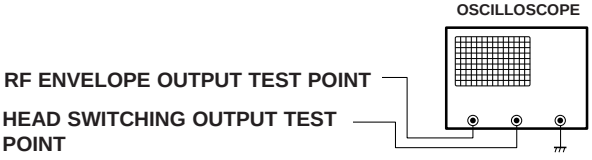


Fig. C-4-3

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.

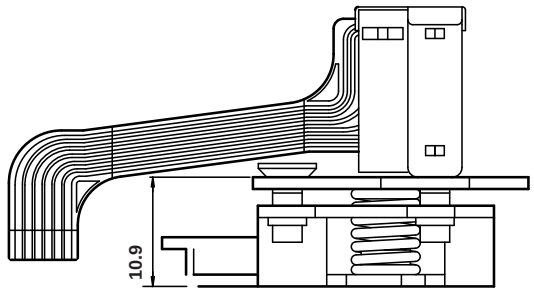
Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Adjustment Point
• Blank Tape • Screw Driver(+) Type 5mm	• Play the blank tape	• Tilt Adjustment Screw(C) • Height Adjustment Screw(B) • Azimuth Adjustment Screw(A)

Adjustment Procedure/Diagrams

1) Initially adjust the Base Assembly A/C Head as shown Fig. C-5-1 by using the Height Adjustment Screw(B).
2) Play a Blank Tape and observe if the Tape passes accurately over the A/C Head without Tape Curling or Folding.
3) If Folding or Curling is occured then adjust the Tilt Adjustment Screw(C) while the Tape is running to resemble Fig. C-5-3.
4) Reconfirm the Tape Path after Playback about 4~5 seconds.

NOTE

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



A/C Head Base

Fig. C-5-1

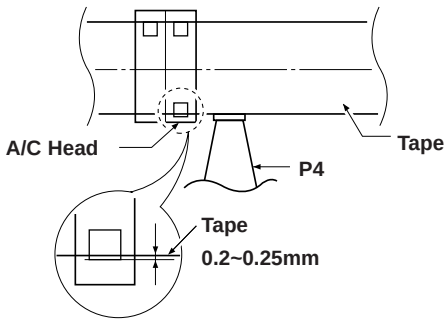
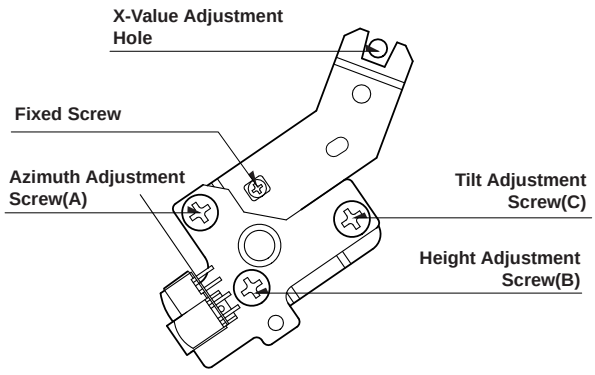


Fig. C-5-3



A/C Head Assembly

Fig. C-5-2

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
• Oscilloscope • Alignment Tape(SP) • Screw Driver(+) Type 5mm	• Audio output jack	• Play an Alignment Tape 1KHz, 7KHz Sections	• Azimuth Adjustment Screw(A) • Height Adjustment Screw(B)

Adjustment Procedure

1) Connect the Probe of the Oscilloscope to Audio Output Jack.
2) Alternately adjust the Azimuth Adjustment Screw(A) and the Tilt Adjustment Screw(C) for Maximum Output of the 1Khz and 7Khz segments, while maintaining the flattest Envelope differential between the two Frequencies.

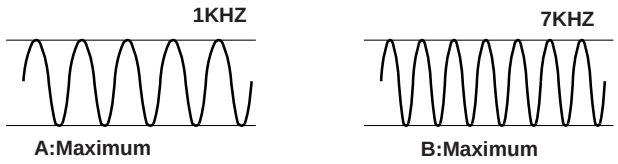
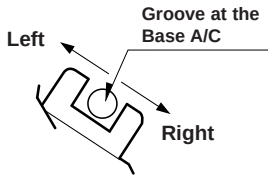


Fig. C-5-4

6. X-Value Adjustment

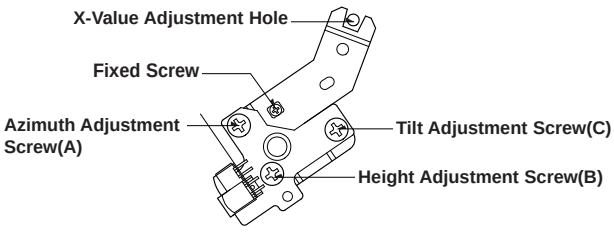
Purpose: To obtain compatibility with other VCR(VCP) Models.

Test Equipment/ Fixture	Connection Point	Test Conditions (Mechanism Condition)	Adjustment Point
• Oscilloscope • Alignment tape(SP only) • Screw Driver(+) Type 5mm	• CH-1: PB RF Envelope • CH-2: NTSC: SW 30Hz PAL: SW 25Hz • Head Switching Output Test Point • RF Envelope Output Test Point	• Play an Alignment Tape	

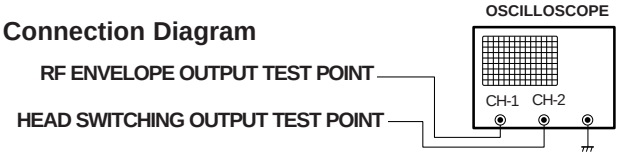
Adjustment Procedure

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)

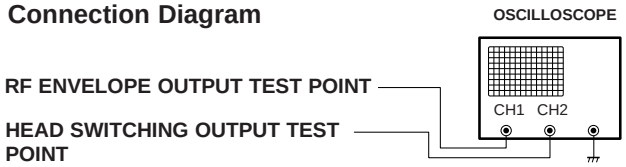
Purpose: To correct for shift in the Roller Guide and X value after replacing the Drum.

Test Equipment/ Fixture	Connection Point	Test Conditions (Mechanism Condition)	Adjustment Points
• Oscilloscope • Alignment tapes • Blank Tape • Post Height Adjusting Driver • Screw Driver(+) Type 5mm	• CH-1: PB RF Envelope • CH-2: NTSC: SW 30Hz PAL: SW 25Hz • Head Switching Output Test Point • RF Envelope Output Test Point	• Play the blank tape • Play an alignment tape	• 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

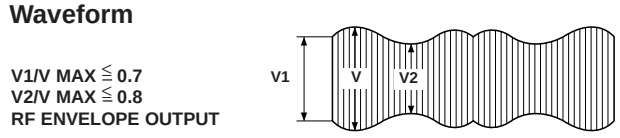


Fig. C-7

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)
• Oscilloscope • Alignment tapes(with 6H 3kHz Color Bar Signal) • Stop Watch	• RF Locking Time: Less than 5 sec. • Audio Locking Time:Less than 10sec	• CH-1: PB RF Envelope • CH-2: Audio Output • RF Envelope Output Point • Audio Output Jack	• 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)
• T-160 Tape • T-120 Tape	• Be sure there is no tape jamming or curling at the begining, middle or end of the tape.	• 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 begining, 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.

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

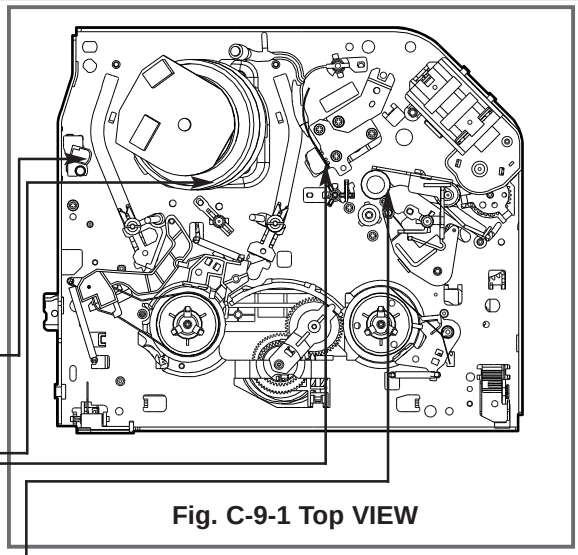


Fig. C-9-1 Top VIEW

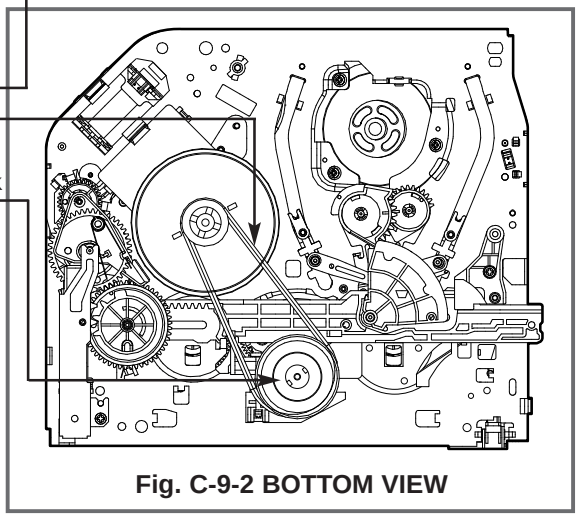


Fig. C-9-2 BOTTOM VIEW

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.**

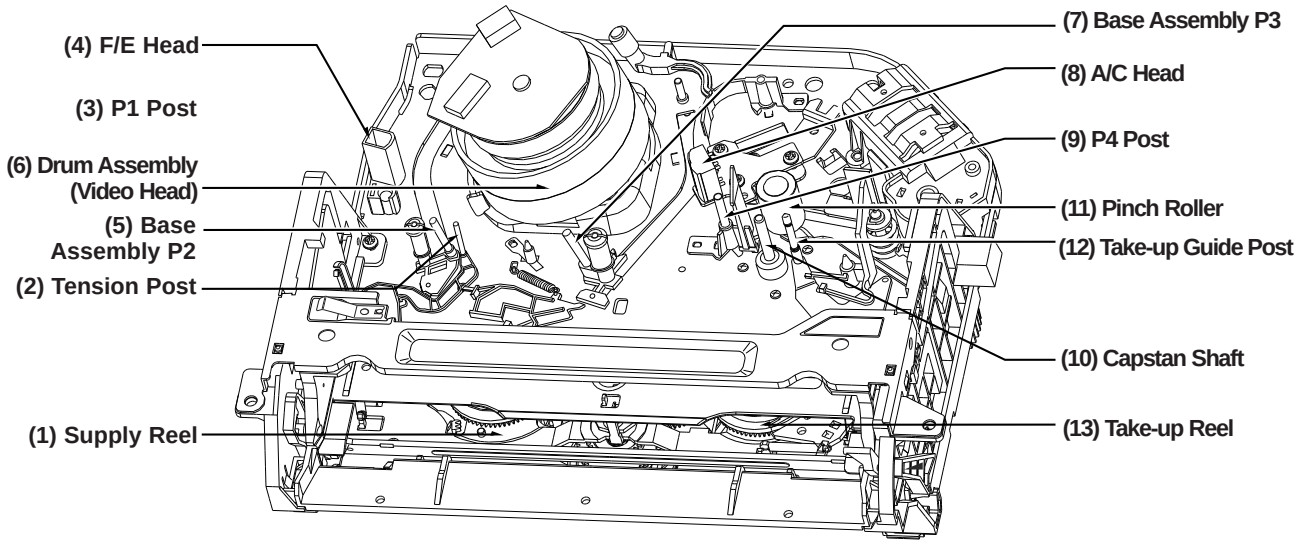


Fig. C-9-3 Tape Transport System

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

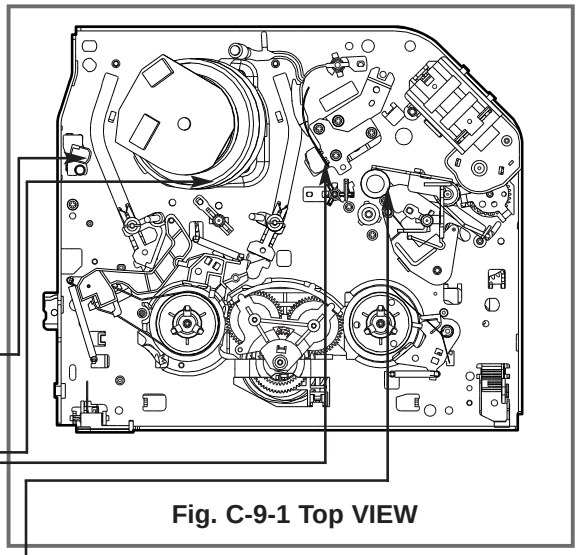


Fig. C-9-1 Top VIEW

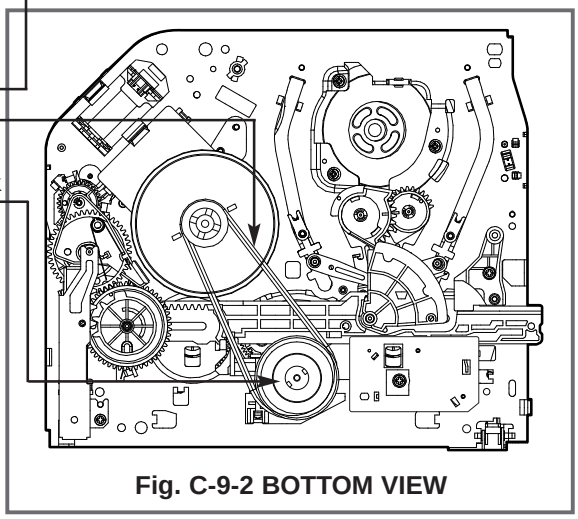


Fig. C-9-2 BOTTOM VIEW

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.**

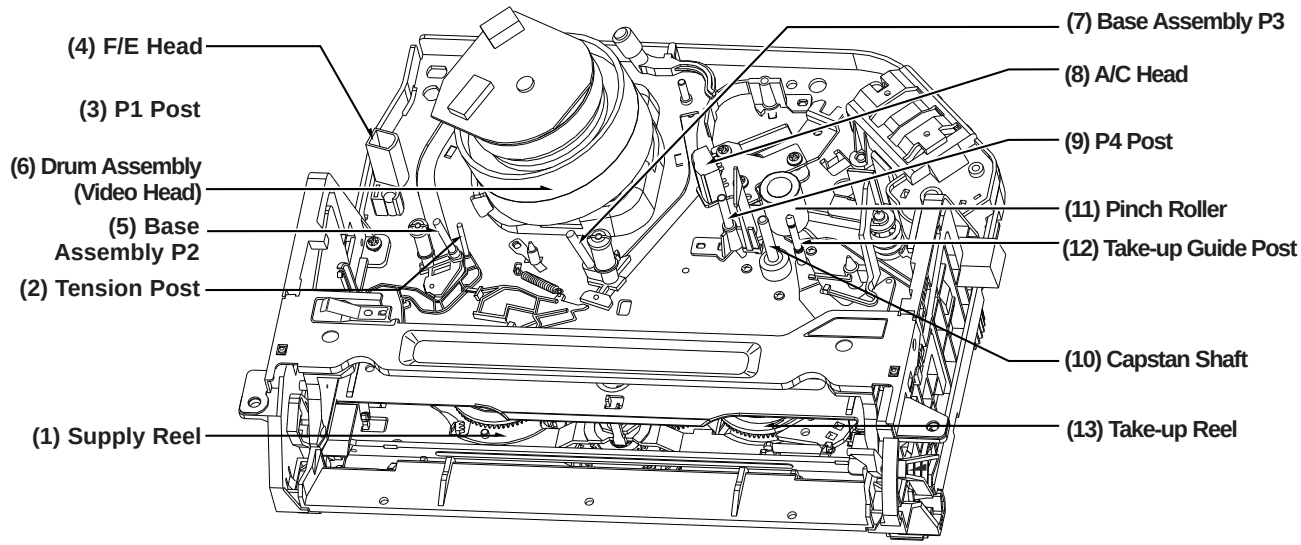


Fig. C-9-3 Tape Transport System

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 compatiblity 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 / Average hours used per day	About 1 year	About 18 months	About 3 years
One hour	■	■	■
Two hours	■	■	
Three hours	■		

4. Supplies Required for Inspection and Maintence

(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 Isporopyl 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.

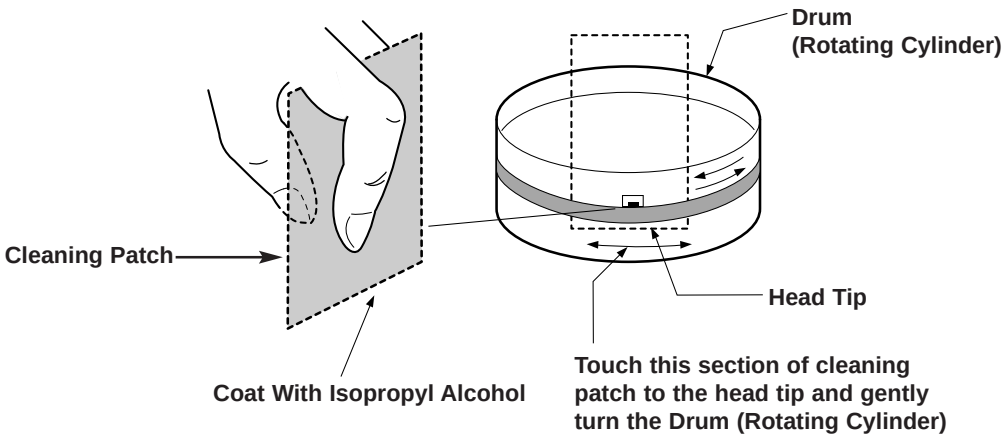


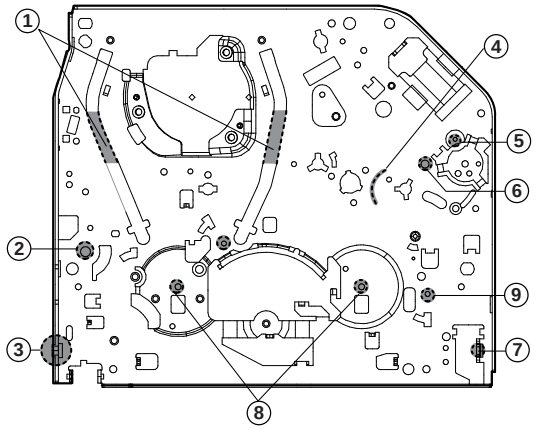
Fig. C-9-4

5-2) Greasing

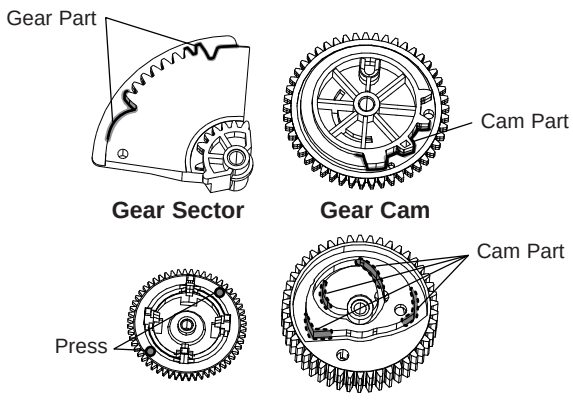
(1) Greasing guidelines
Apply grease, with a cleaning patch. Do not use excess grease. It may come into contact with the tape transport or drive system. Wipe any excess and clean with clean ing patch wetted in Isopropyl Alcohol.

NOTE:Greasing Points

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

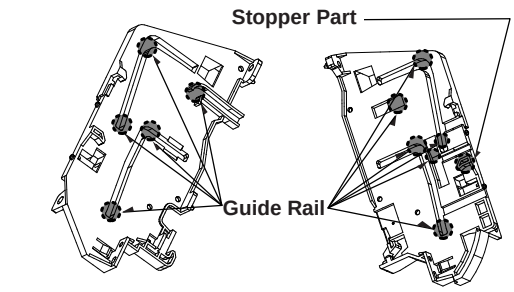


Chassis (Top)



Gear Sector **Gear Cam**

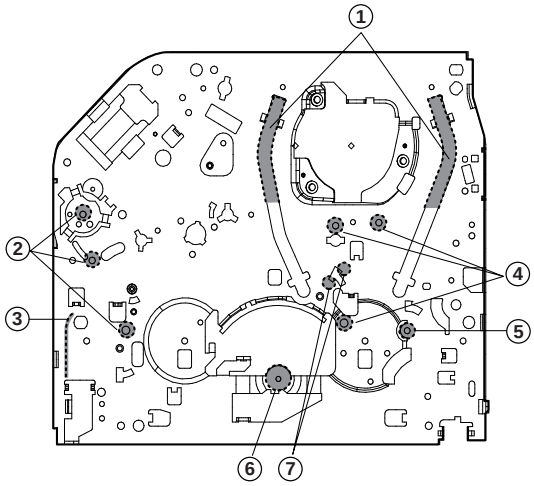
Gear Assembly Up/D **Gear Drive**



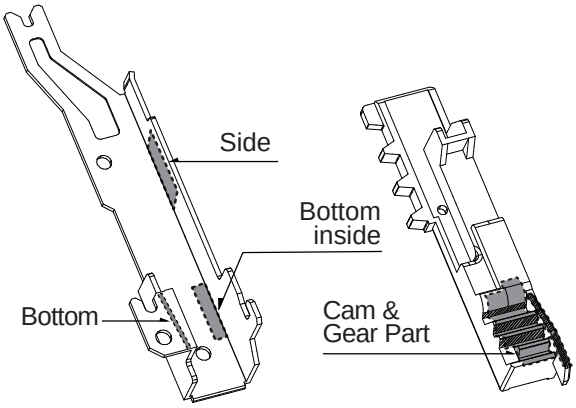
Bracket Side (L) **Bracket Assembly Door**

(2) Periodic greasing
Grease specified locations every 5,000 hours.

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



Chassis (Bottom)



Guide Rack F/L **Gear Rack F/L**

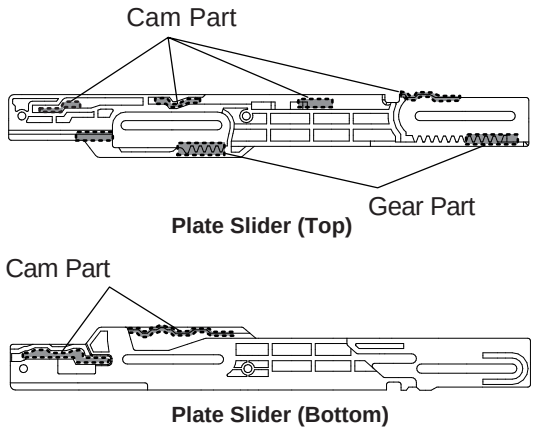


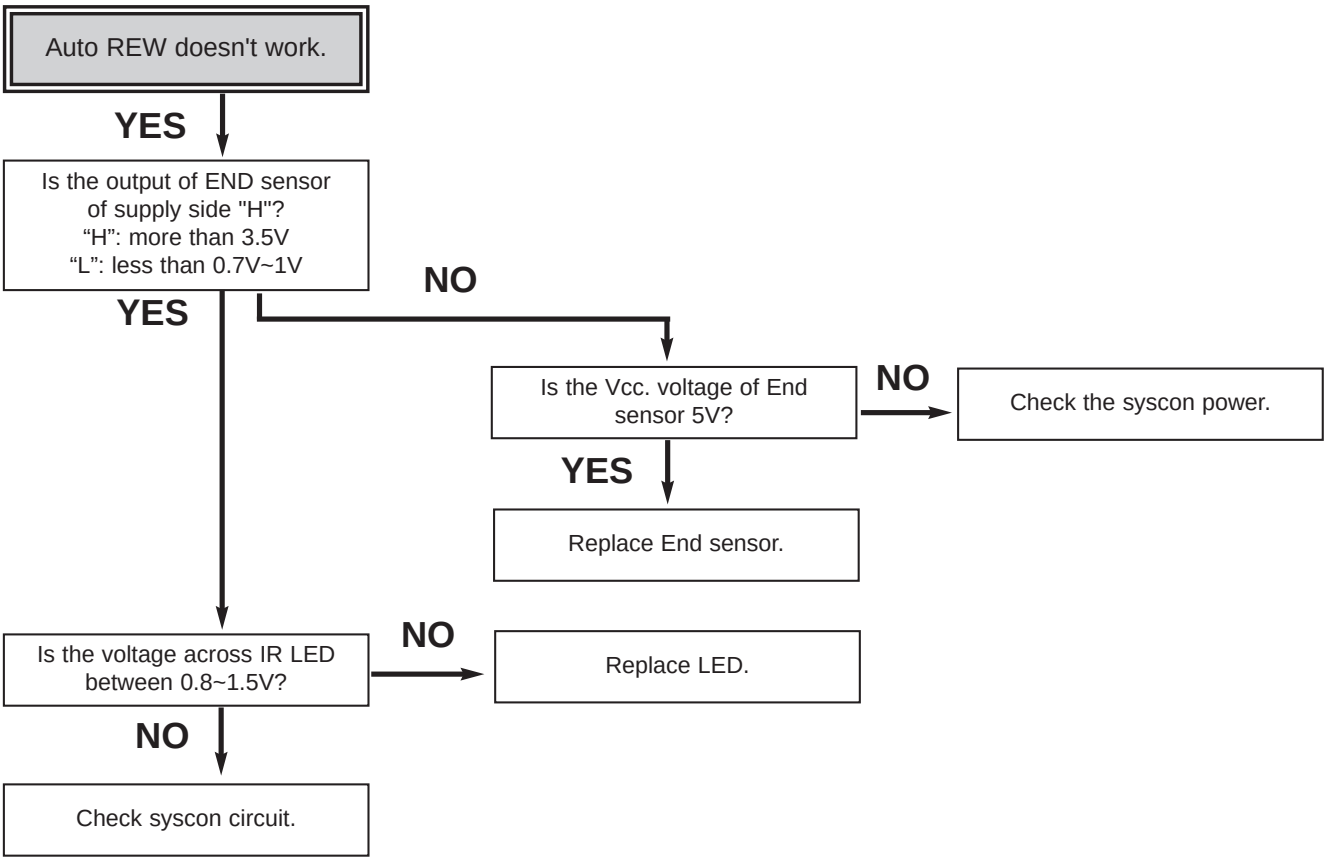
Plate Slider (Top)

Plate Slider (Bottom)

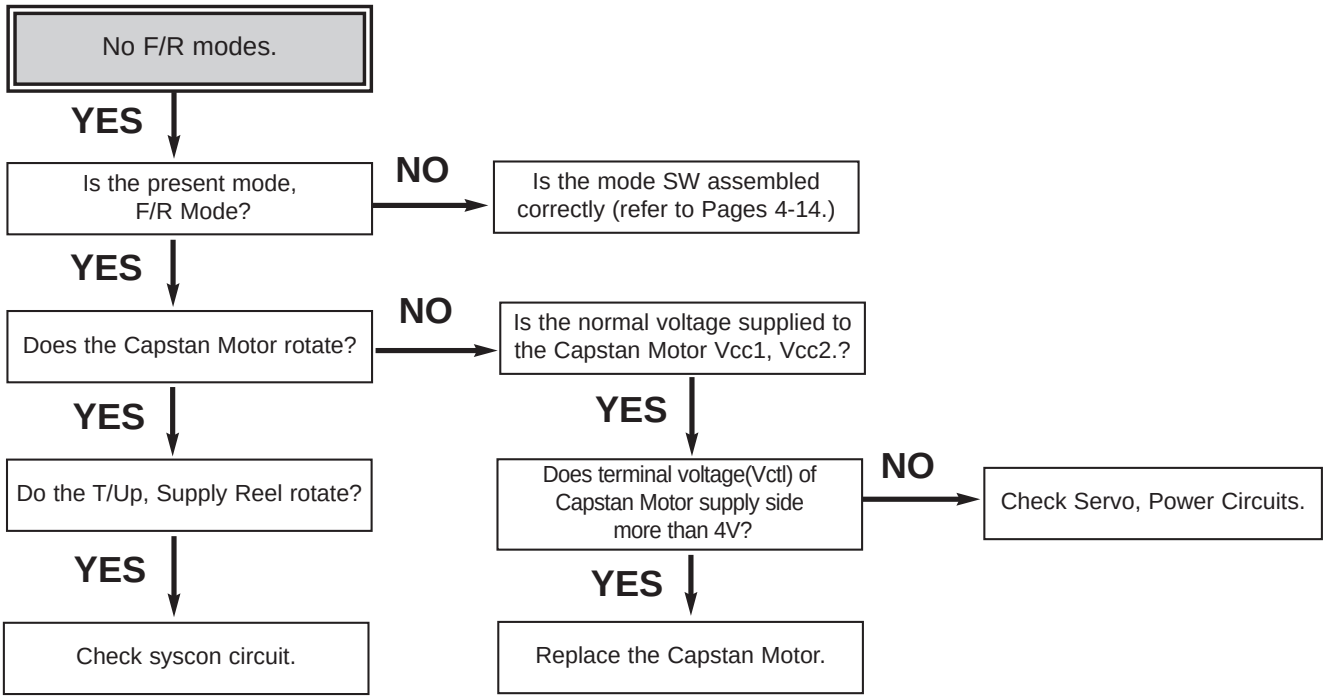
MECHANISM TROUBLESHOOTING GUIDE

1.Deck Mechanism

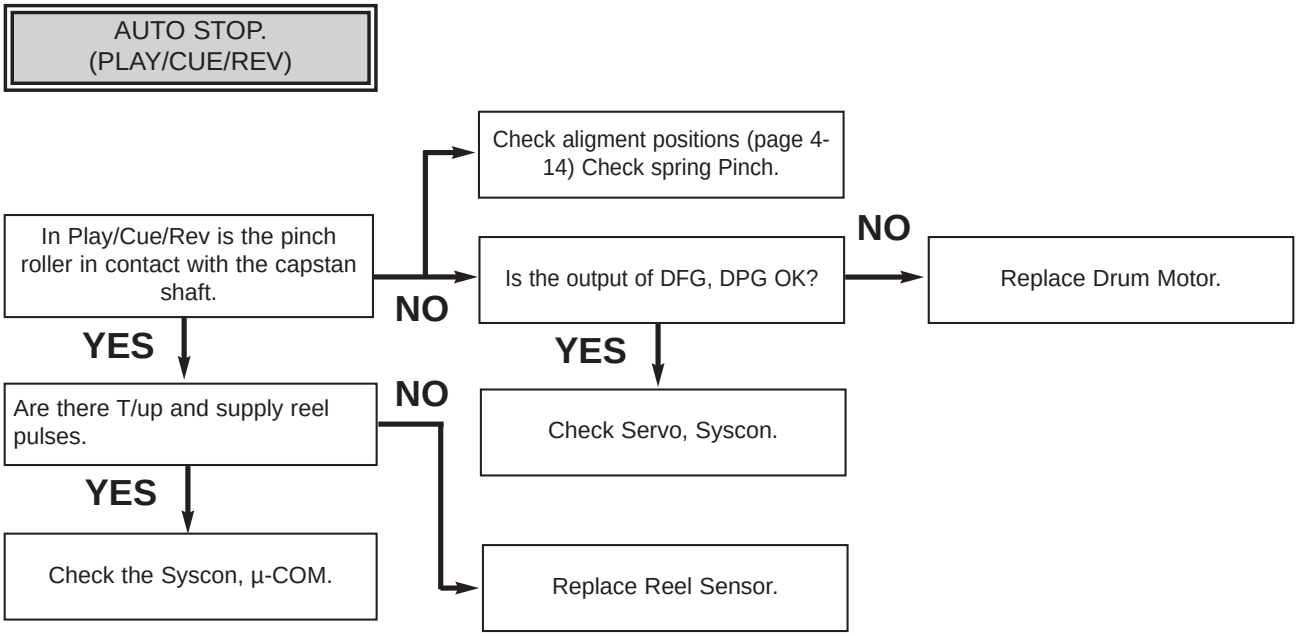
A.



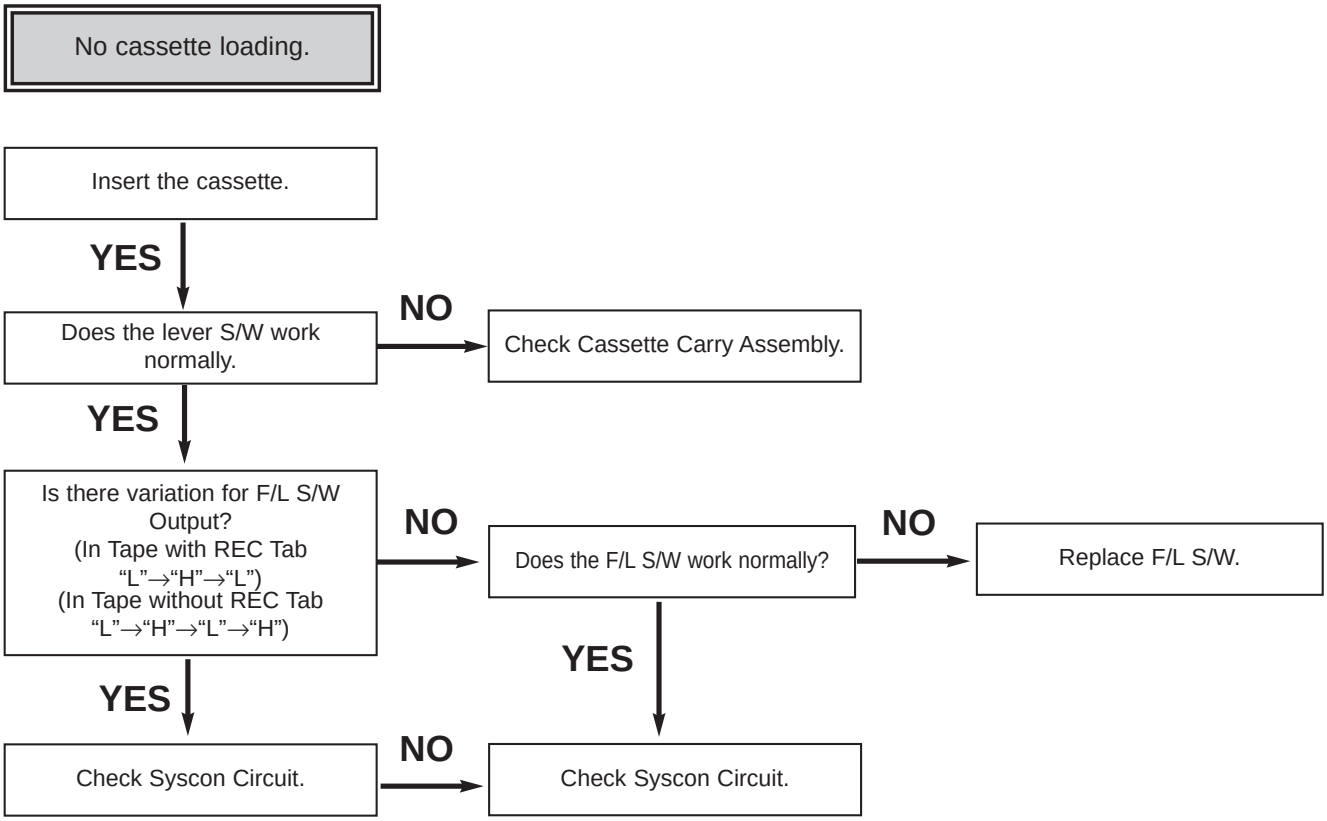
B.



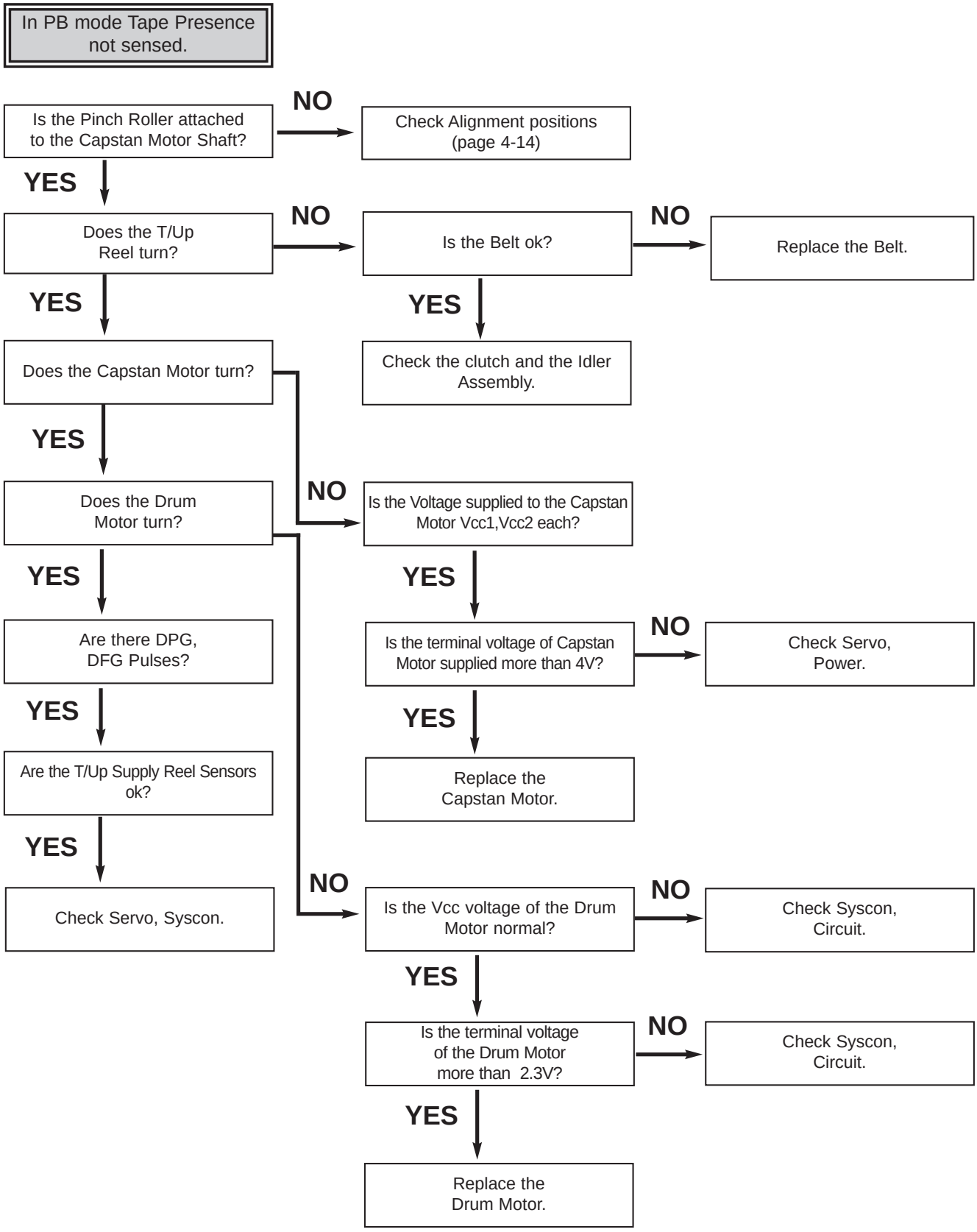
C.


AUTO STOP.
(PLAY/CUE/REV)
In Play/Cue/Rev is the pinch roller in contact with the capstan shaft.
NO
Check aligment positions (page 4-14) Check spring Pinch.
Is the output of DFG, DPG OK?
NO
Replace Drum Motor.
YES
YES
Are there T/up and supply reel pulses.
NO
Check Servo, Syscon.
YES
Check the Syscon, µ-COM.
Replace Reel Sensor.

D.


No cassette loading.
Insert the cassette.
YES
Does the lever S/W work normally.
NO
Check Cassette Carry Assembly.
YES
Is there variation for F/L S/W Output?
(In Tape with REC Tab
"L"→"H"→"L")
(In Tape without REC Tab
"L"→"H"→"L"→"H")
NO
Does the F/L S/W work normally?
NO
Replace F/L S/W.
YES
YES
Check Syscon Circuit.
NO
Check Syscon Circuit.

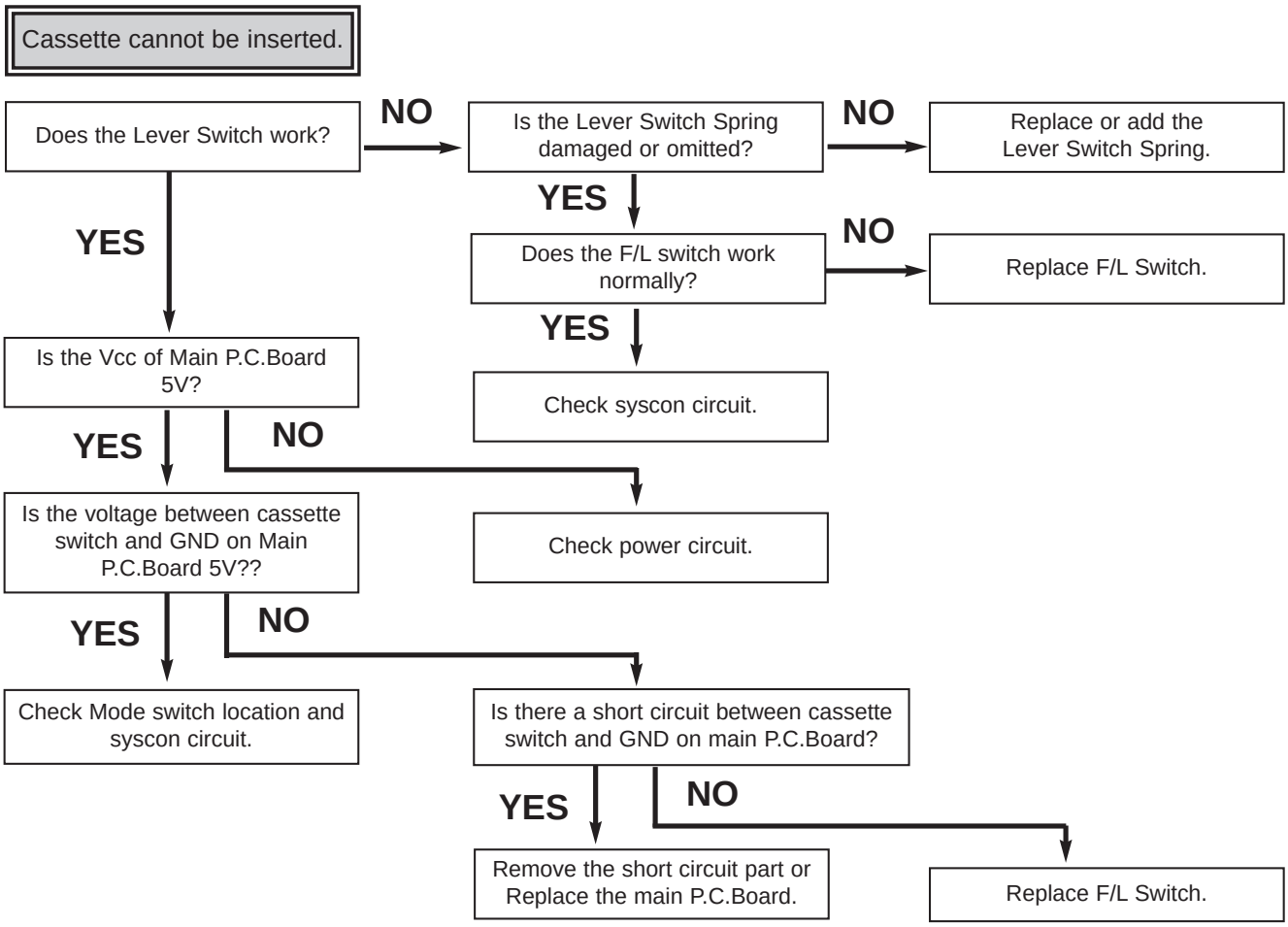
E.


In PB mode Tape Presence not sensed.
Is the Pinch Roller attached to the Capstan Motor Shaft?
NO
Check Alignment positions (page 4-14)
YES
Does the T/Up Reel turn?
NO
Is the Belt ok?
NO
Replace the Belt.
YES
YES
Check the clutch and the Idler Assembly.
Does the Capstan Motor turn?
YES
Does the Drum Motor turn?
NO
Is the Voltage supplied to the Capstan Motor Vcc1,Vcc2 each?
YES
YES
Are there DPG, DFG Pulses?
Is the terminal voltage of Capstan Motor supplied more than 4V?
NO
Check Servo, Power.
YES
YES
Are the T/Up Supply Reel Sensors ok?
Replace the Capstan Motor.
YES
NO
Check Servo, Syscon.
Is the Vcc voltage of the Drum Motor normal?
NO
Check Syscon, Circuit.
YES
Is the terminal voltage of the Drum Motor more than 2.3V?
NO
Check Syscon, Circuit.
YES
Replace the Drum Motor.

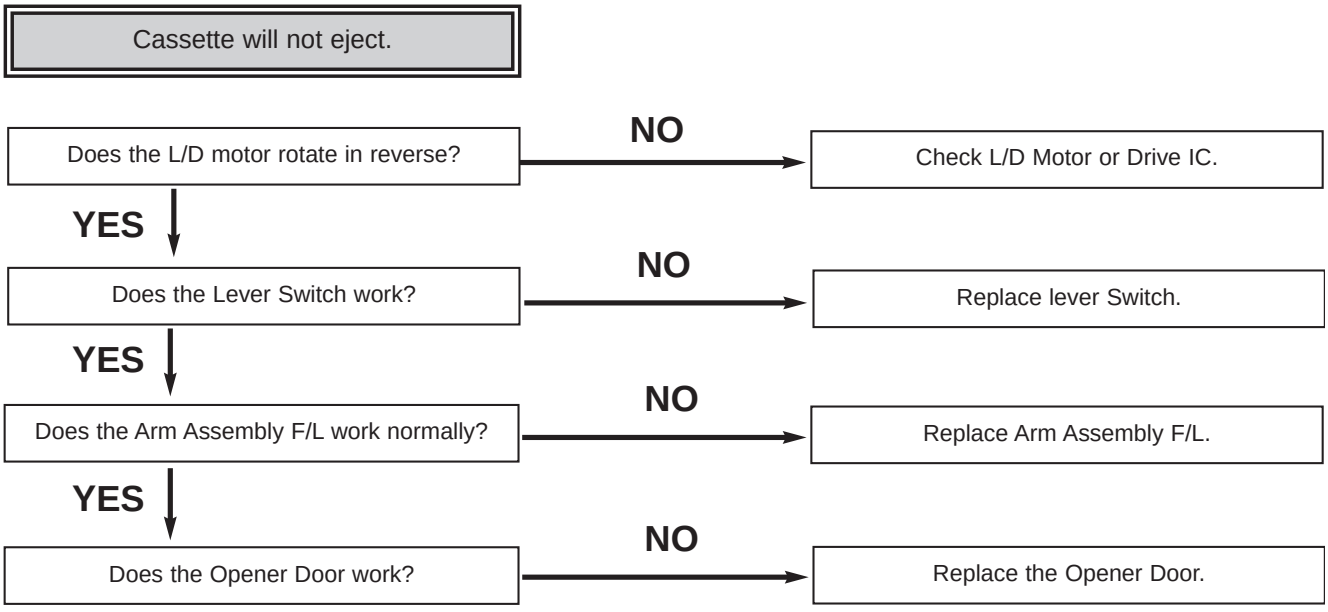
MECHANISM TROUBLESHOOTING GUIDE

2. Front Loading Mechanism

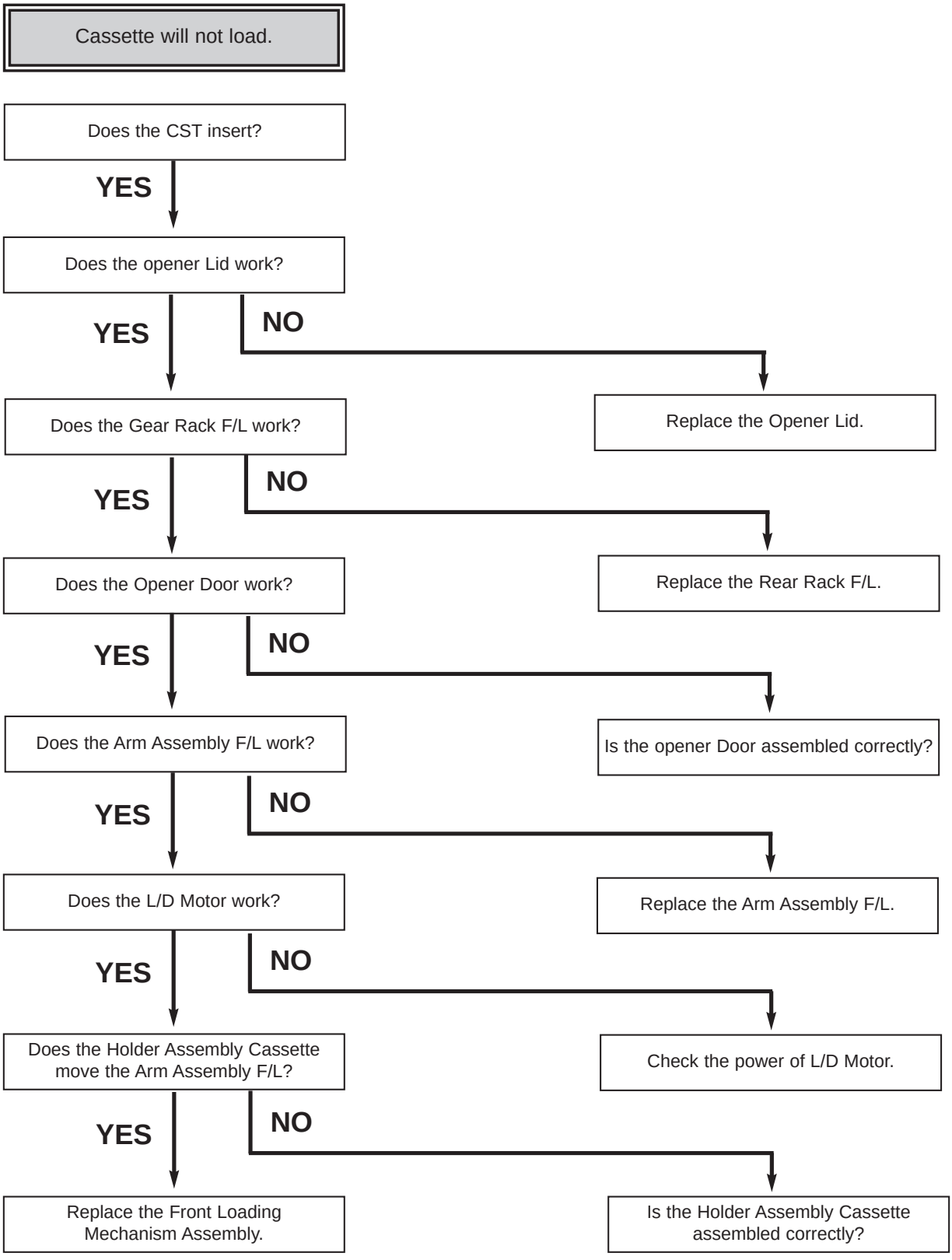
A.



B.

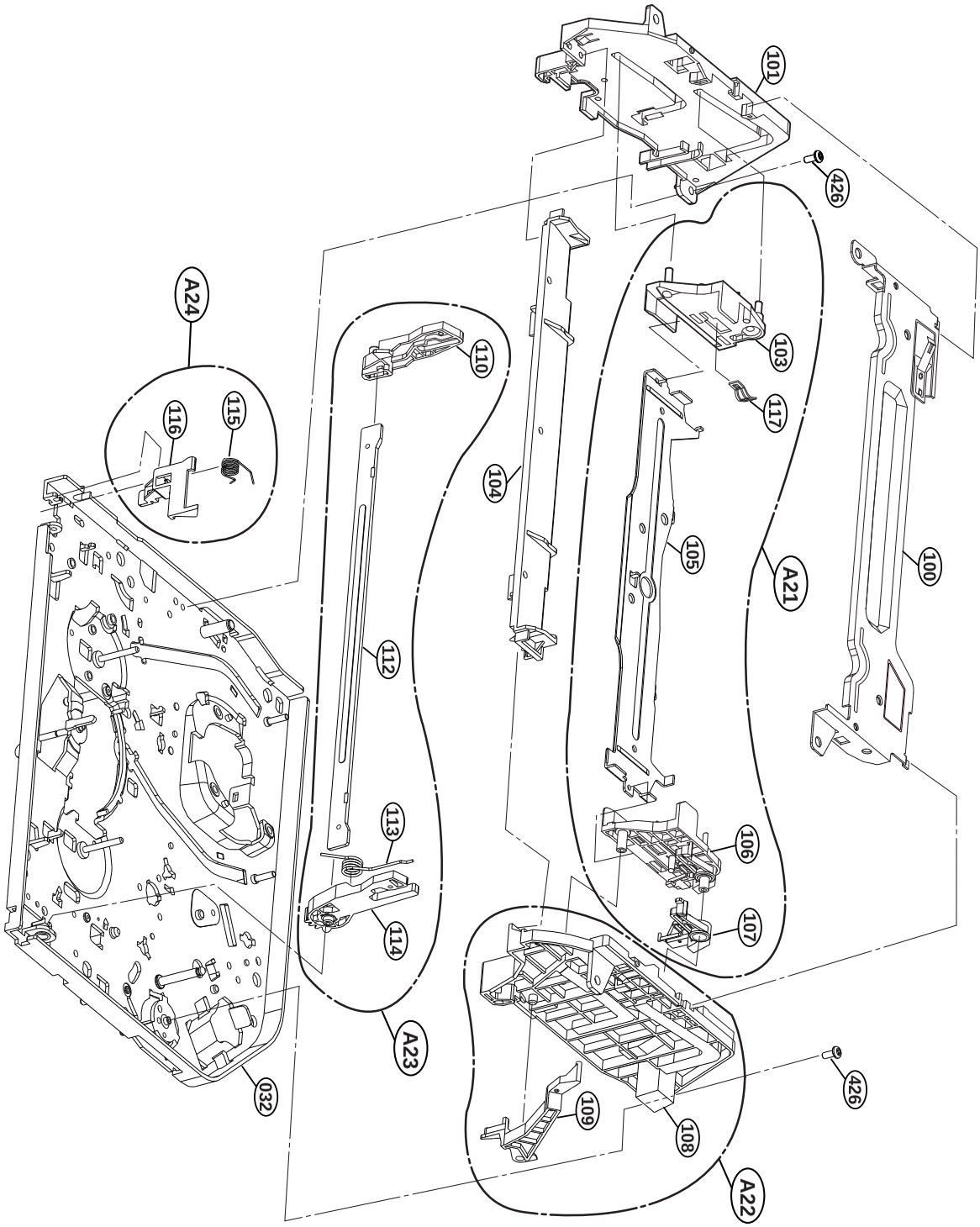


C.


Cassette will not load.
Does the CST insert?
YES
Does the opener Lid work?
YES
NO
Replace the Opener Lid.
Does the Gear Rack F/L work?
YES
NO
Replace the Rear Rack F/L.
Does the Opener Door work?
YES
NO
Is the opener Door assembled correctly?
Does the Arm Assembly F/L work?
YES
NO
Replace the Arm Assembly F/L.
Does the L/D Motor work?
YES
NO
Check the power of L/D Motor.
Does the Holder Assembly Cassette move the Arm Assembly F/L?
YES
NO
Is the Holder Assembly Cassette assembled correctly?
Replace the Front Loading Mechanism Assembly.

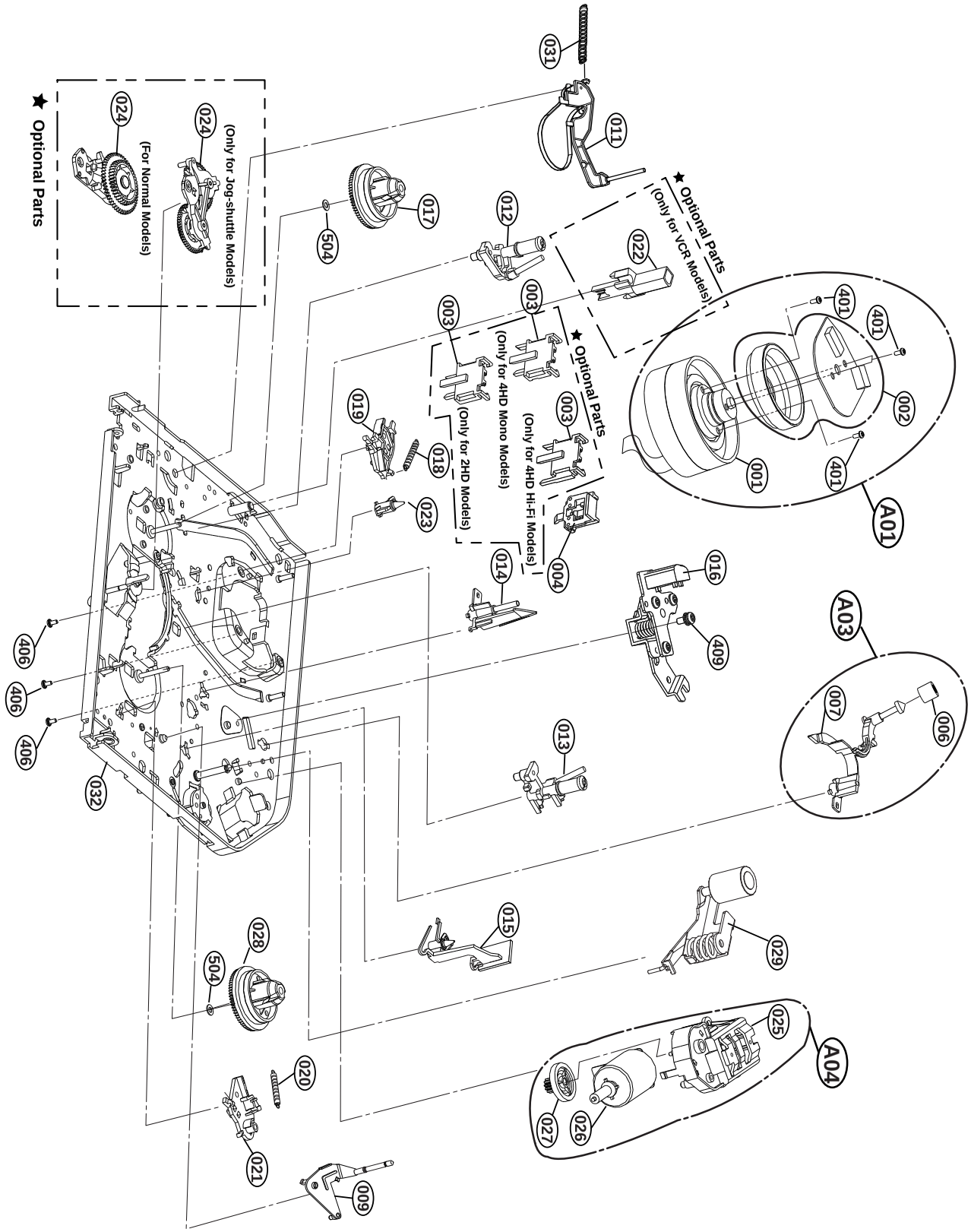
EXPLODED VIEWS

1. Front Loading Mechanism Section



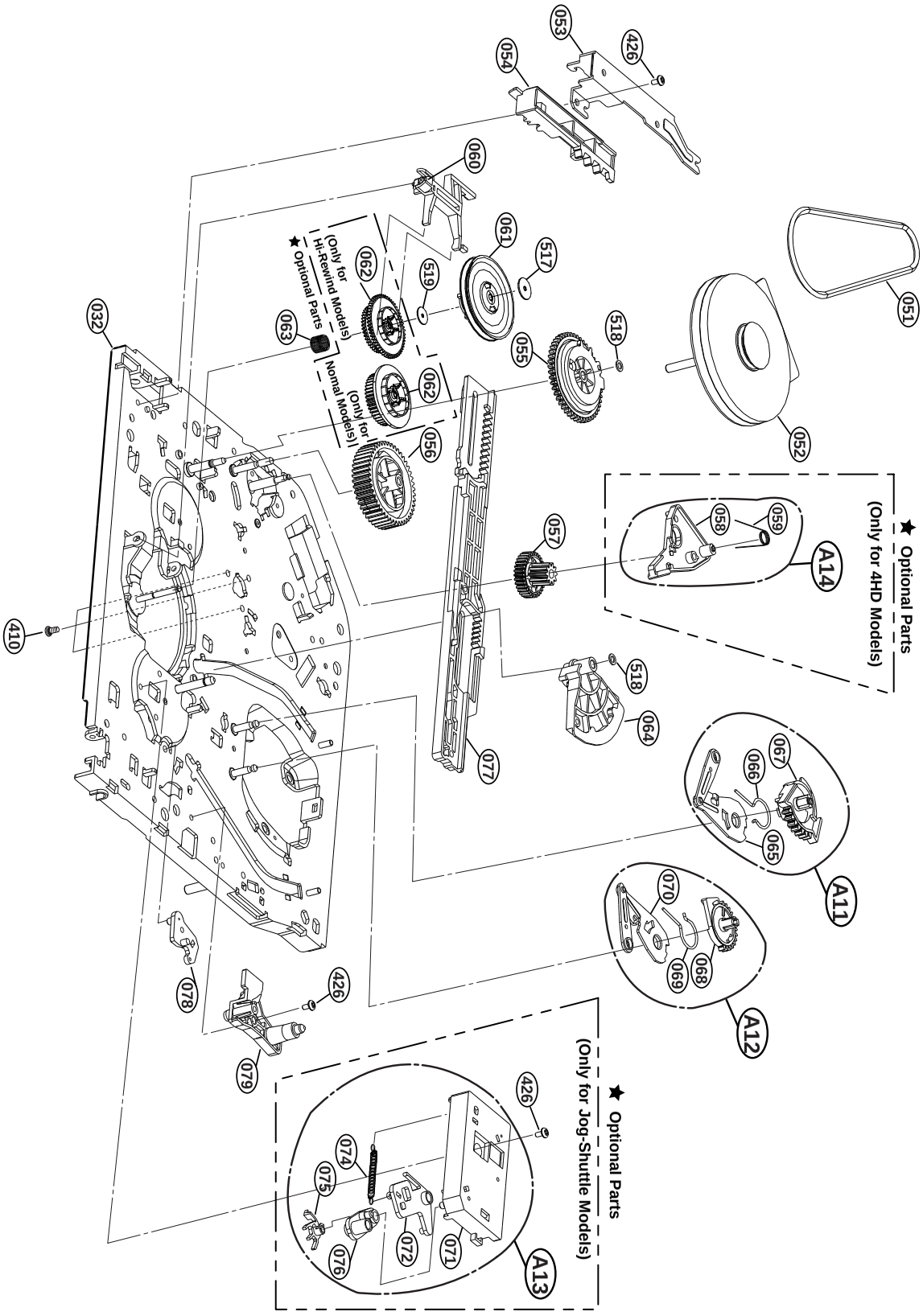
EXPLODED VIEWS

2. Moving Mechanism Section(1)



EXPLODED VIEWS

3. Moving Mechanism Section(2)



REPLACEMENT PARTS LIST

1. Mechanical Section

NSP : Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
ASSEMBLY PARTS SECTION						
		A00	6721R-0105B	DECK ASSY	D33	
		A01	6723R-D101B	DRUM(CIRC) ASSY	D33-2CH SP/EP (5M2)	
		A02	4261R-0012B	ARM ASSY	L/D MOTOR	
		A03	4261R-0015A	ARM ASSY	CLEANER	
		A04	4811R-0019A	BRACKET ASSY	L/D MOTOR	
		A11	4470R-0028A	GEAR ASSY	P3	
		A12	4470R-0026A	GEAR ASSY	P2	
		A21	4931R-0015A	HOLDER ASSY	CST	
		A22	4811R-0014A	BRACKET ASSY	DOOR	
		A23	4261R-0010A	ARM ASSY	F/L	
		A24	4510R-0019A	LEVER ASSY	SWITCH	
PARTS SECTION						
		012	3041R-0003A	BASE ASSY	P2	
		013	3041R-0004A	BASE ASSY	P3	
		014	3041R-0007A	BASE ASSY	P4	
		015	5870R-0001A	OPENER	LID	
		016	3041R-0005F	BASE ASSY	A/C HEAD(LGEC)	
		017	4408R-0001B	REEL	S	
		018	4970R-0054A	SPRING	SB	
		019	4421R-0003A	BRAKE ASSY	S	
		020	4970R-0053A	SPRING	TB	
		021	4421R-0004A	BRAKE ASSY	T	
		022	523-833D	HEAD	FE D33Y	
		023	4980R-0010A	SUPPORTER	CST	
		024	4261R-0013A	ARM ASSY	IDLER	
		025	4810R-0066A	BRACKET	L/D MOTOR	
		026	4681R-0008A	MOTOR ASSY	L/D	
		027	4470R-0025A	GEAR	WHEEL	
		028	4408R-0002B	REEL	T	
		029	4261R-0011B	ARM ASSY	PINCH (MOLD BEARING)	
		031	4970R-0052A	SPRING	TENSION	
		032	3141R-0002C	CHASSIS ASSY	D33Y	
		051	4400R-0005A	BELT	CAPSTAN	
		052	4680RA0002B	MOTOR(MECH)	CAPSTAN F2QSB06	
		053	4974R-0018A	GUIDE	RACK F/L	
		054	4470R-0037A	GEAR	RACK F/L	
		055	4470R-0033A	GEAR	DRIVE	
		056	4470R-0032A	GEAR	CAM	
		057	4470R-0036B	GEAR	CONNECT	
		060	4510R-0025B	LEVER	F/R	
		061	4265R-0002A	CLUTCH ASSY	D33	
		062	4470R-0044A	GEAR ASSY	UP/D	
		063	4970R-0051A	SPRING	UP/D	
		064	4470R-0034A	GEAR	SECTOR	
		065	4510R-0016A	LEVER	P3	
		066	4970R-0046A	SPRING	L/D	
		067	4470R-0029A	GEAR	P3	

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		068	4470R-0027A	GEAR	P2	
		069	4970R-0046A	SPRING	L/D	
		070	4510R-0015A	LEVER	P2	
		077	3300R-0157A	PLATE	SLIDER	
		078	4510R-0022A	LEVER	TENSION	
		079	3040R-0018A	BASE	TENSION(D-33K)	
		100	3301R-0029A	PLATE ASSY	TOP	
		101	4810R-0056A	BRACKET	SIDE(L)	
		103	4930R-0096A	HOLDER	SIDE(L)	
		104	4974R-0019A	GUIDE	CST	
		105	4930R-0098A	HOLDER	CST	
		106	4930R-0100A	HOLDER	SIDE(R)	
		107	4510R-0024A	LEVER	STOPPER(R)	
		108	4810R-0055A	BRACKET	SIDE(R)	
		109	5870R-0002A	OPENER	DOOR	
		110	4260R-0018A	ARM	F/L(L)	
		111	4970R-0055A	SPRING	F/L(L)	
		112	3070R-0001A	BODY	F/L	
		113	4970R-0056A	SPRING	F/L(R)	
		114	4260R-0019A	ARM	F/L(R)	
		115	4970R-0050A	SPRING	SWITCH	
		116	4510R-0020A	LEVER	SWITCH	
SCREW						
		401	1MPC0261418	PAN HEAD MACHINE SCREW +, -	+ D2.6 L4.0 MSWR3/FZY	
		406	1MEC0302018	PAN HEAD MACHINE SCREW S/W+	D3.0 L6.0 MSWR3/FZY	
		407	1APF0201718	SCREW TAP TITE(B), PAN HEAD		
		409	1MGC0302418	PAN HEAD MACN SCREW S/P WASH +	D3.0 L8.0, MSWR3/FZY	
		410	1APF0262218	SCREW TAP TITE(B), PAN HEAD	+ D2.6 L6.8 MSWR3/FZY	
		426	1MPC0302018	SCREW MACHINE	D3.0 L6.0 MSWR3/FZY	
NUT, WASHER						
		504	354-001B	WASHER	P.S D3.1XD6X0.5T	
		517	1WZZR-0004B	WASHER	STOPPER	
		518	1WZZR-0004A	WASHER	STOPPER	