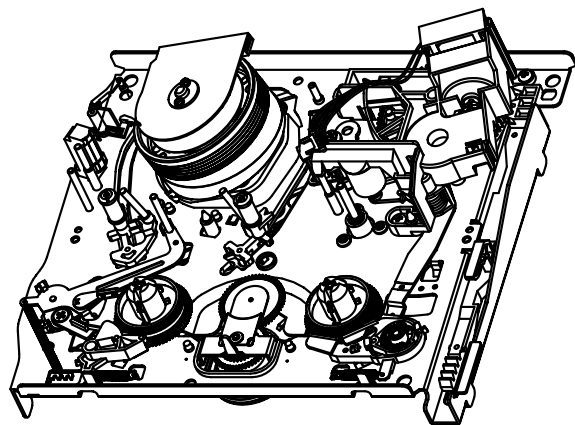


DAEWOO

Service Manual

VCR MECHANISM UNIT

(K50 / K30-MECHA DECK)



DAEWOO ELECTRONICS CO., LTD.

<http://svc.dwe.co.kr>

March. 2000

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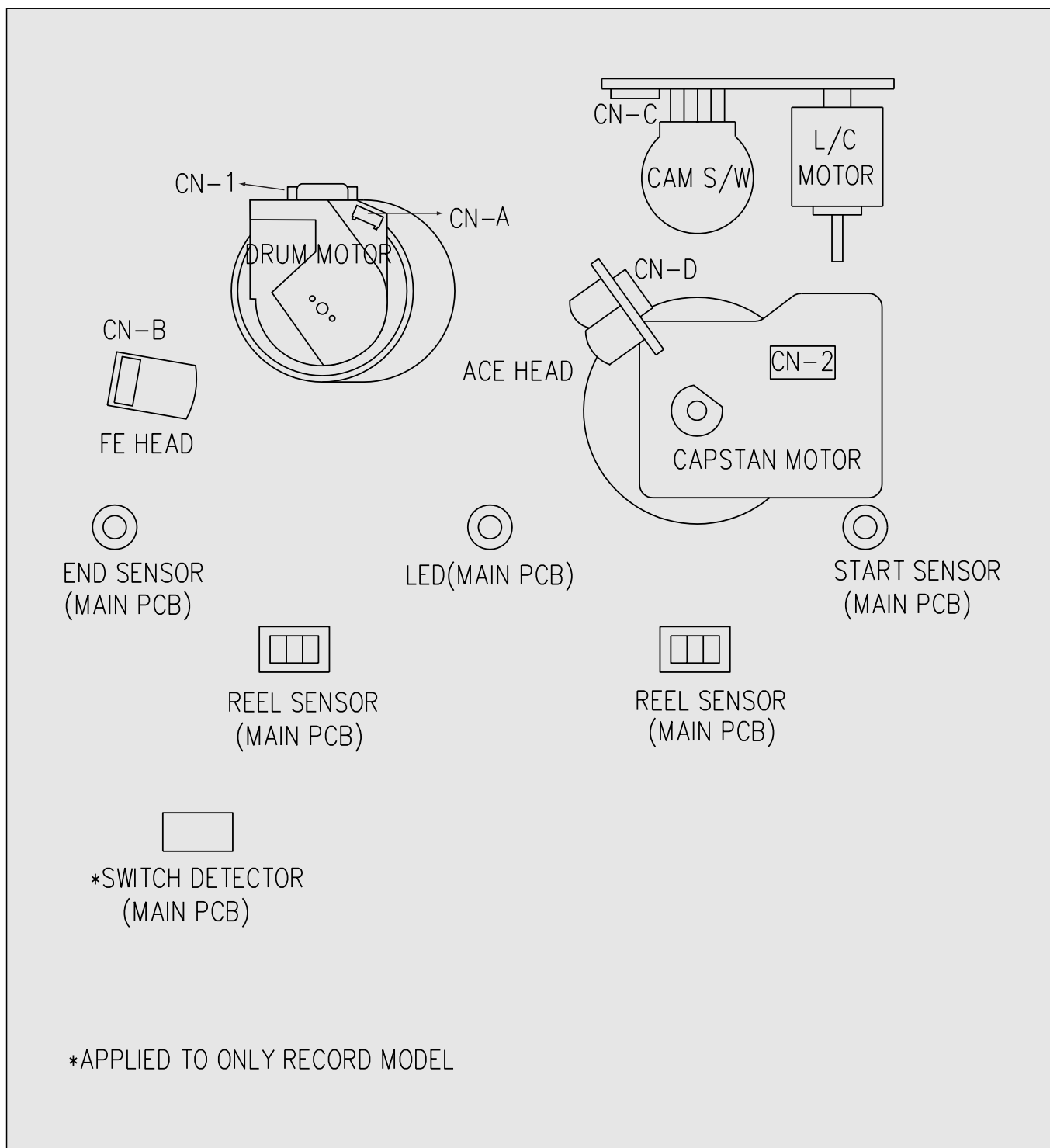
1. DESCRIPTION OF THE MECHANISM

1-1 CHARACTERISTIC OF THE K30-DECK MECHANISM

- 1) K30-MECHA DECK follows the VHS standard.
- 2) K30-MECHA DECK uses three motors (DRUM MOTOR, CAPSTAN MOTOR and L/C MOTOR)
- 3) K30-MECHA DECK uses L/C MOTOR to drive FRONT LOADING.
- 4) K30-MECHA DECK recognizes each mode by using a 4-BIT MODE signal. This 4-BIT MODE signal is generated by the CAM SWITCH which is driven by the L/C MOTOR.
- 5) K30-MECHA DECK is operated by 7 MODES (EJECT/INITIAL/REV/IDLE/PLAY, STOP, SLOW/BRAKE/FF & REW).
- 6) K30-MECHA DECK reduces the mode shifting time, that is, picture playing time by using the FULL LOADING SYSTEM that has the DRUM wrapped by the tape.
- 7) K30-MECHA DECK is seperated from the Main PCB. When assembling, it is connected by B-B TYPE CONNECTOR.
The CAPSTAN MOTOR and DRUM OUTPUT of K30-MECHA DECK and the MAIN PCB DECK are directly connected without using cable.

1-2 WIRE DIAGRAM

1-2-1) WIRE DIAGRAM



1-2-2) CONNECTOR PIN ARRANGEMENT

CN-1 (2 HEAD MONO)

1	SP-L
2	COMMON
3	SP-R
4	GND

CN-A

1	GND
2	DRUM SPD CTL
3	Vcc
4	DRUM FG
5	DRUM PG
6	NON CONNECT
7	NON CONNECT

CN-B

1	FE HEAD
2	GND

CN-1 (4 HEAD MONO)

1	SP-L
2	COMMON
3	SP-R
4	GND
5	EP-R
6	COMMON
7	EP-L

CN-C

1	L/C MT (+)
2	L/C MT (-)
3	GND
4	CAM D
5	CAM C
6	CAM B
7	CAM A

CN-2

1	EVER 5V
2	CAPSTAN F/R
3	CAPSTAN FG
4	CTL-REF
5	CTL
6	I-LIMIT
7	CAPSTAN M/T 12V/18V
8	GND
9	IC GND
10	NON CONTACT

CN-1 (4 HEAD HI-FI)

1	A-L
2	COMMON
3	A-R
4	SP-L
5	COMMON
6	SP-R
7	GND
8	EP-R
9	COMMON
10	EP-L

CN-D

1	CTL
2	CTL
3	AUDIO
4	AUDIO
5	ERASE
6	GND

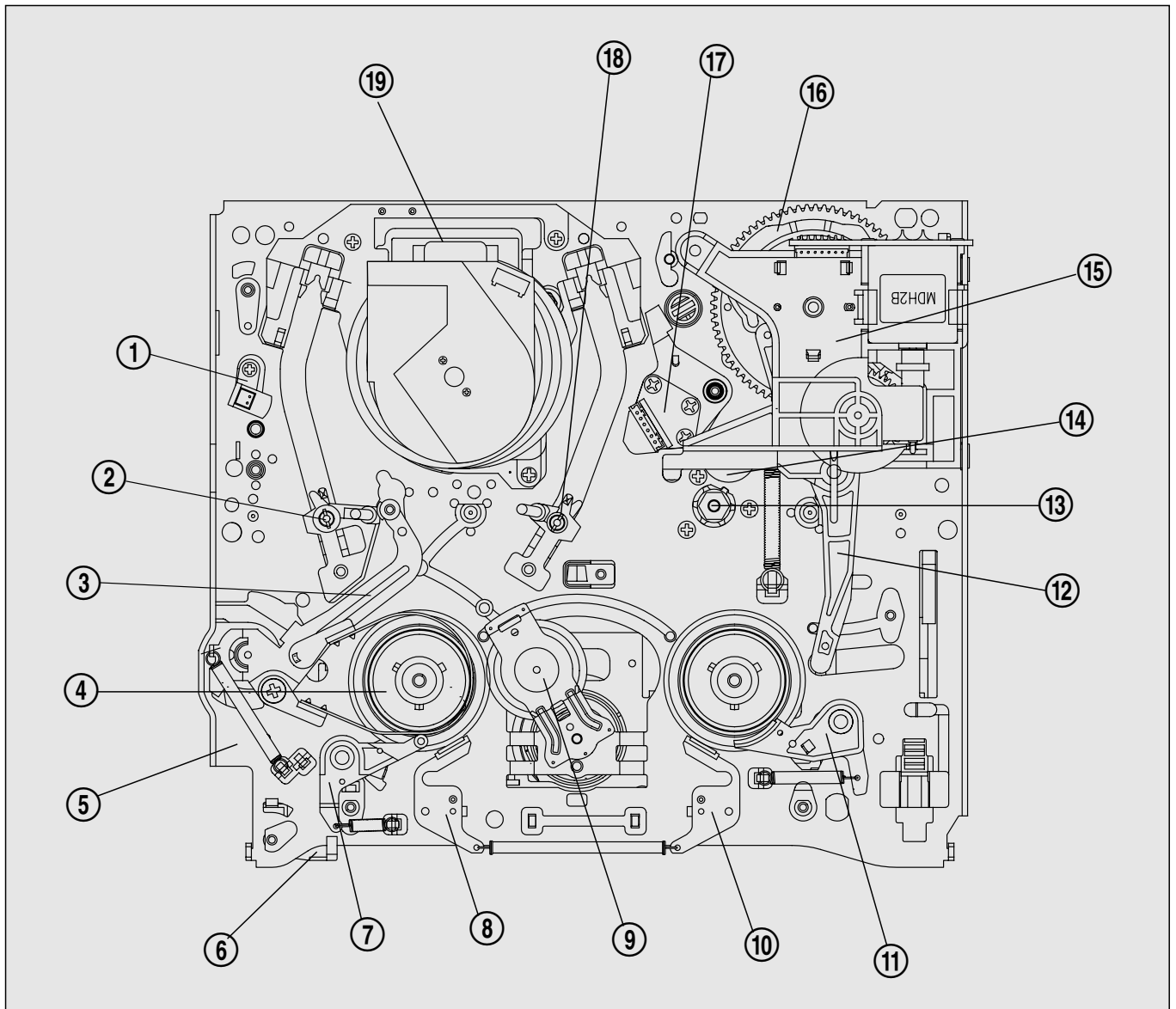
* Capstan M/T Voltage of No.7 is 12V for normal model and 18V for HI-REW model.

2. ASSEMBLY DIAGRAM & MAJOR PARTS CHECK

2-1. ASSEMBLING DIAGRAM

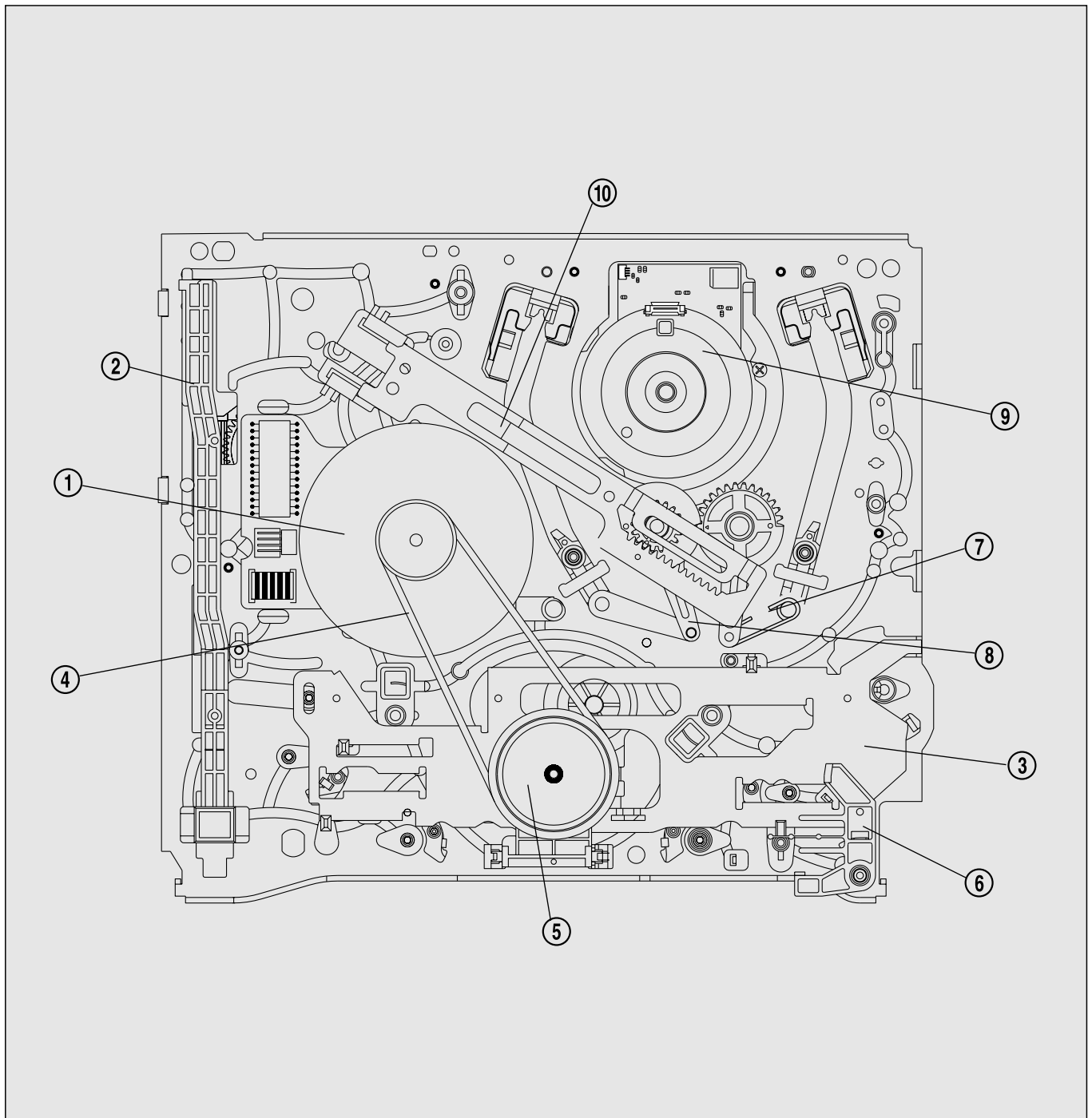
2-1-1) ASSEMBLING DIAGRAM OF DECK ASS'Y

A. TOP VIEW



- | | |
|----------------------------|-----------------------------|
| 1. FE HEAD | 11. T-SUB BRAKE ASS'Y |
| 2. S SLANT POLE ASS'Y | 12. RELAY LEVER |
| 3. TENSION BAND ASS'Y | 13. CAPSTAN MOTOR |
| 4. REEL TABLE | 14. PINCH LEVER TOTAL ASS'Y |
| 5. MAIN BASE ASS'Y | 15. L/C BRKT TOTAL ASS'Y |
| 6. RECORD SAFETY LEVER | 16. CAM GEAR |
| 7. S SUB BRAKE ASS'Y | 17. A/C HEAD TOTAL ASS'Y |
| 8. S MAIN BRAKE ASS'Y | 18. T SLANT POLE ASS'Y |
| 9. IDLER PLATE TOTAL ASS'Y | 19. DRUM TOTAL ASS'Y |
| 10. T MAIN BRAKE ASS'Y | |

B. BOTTOM VIEW

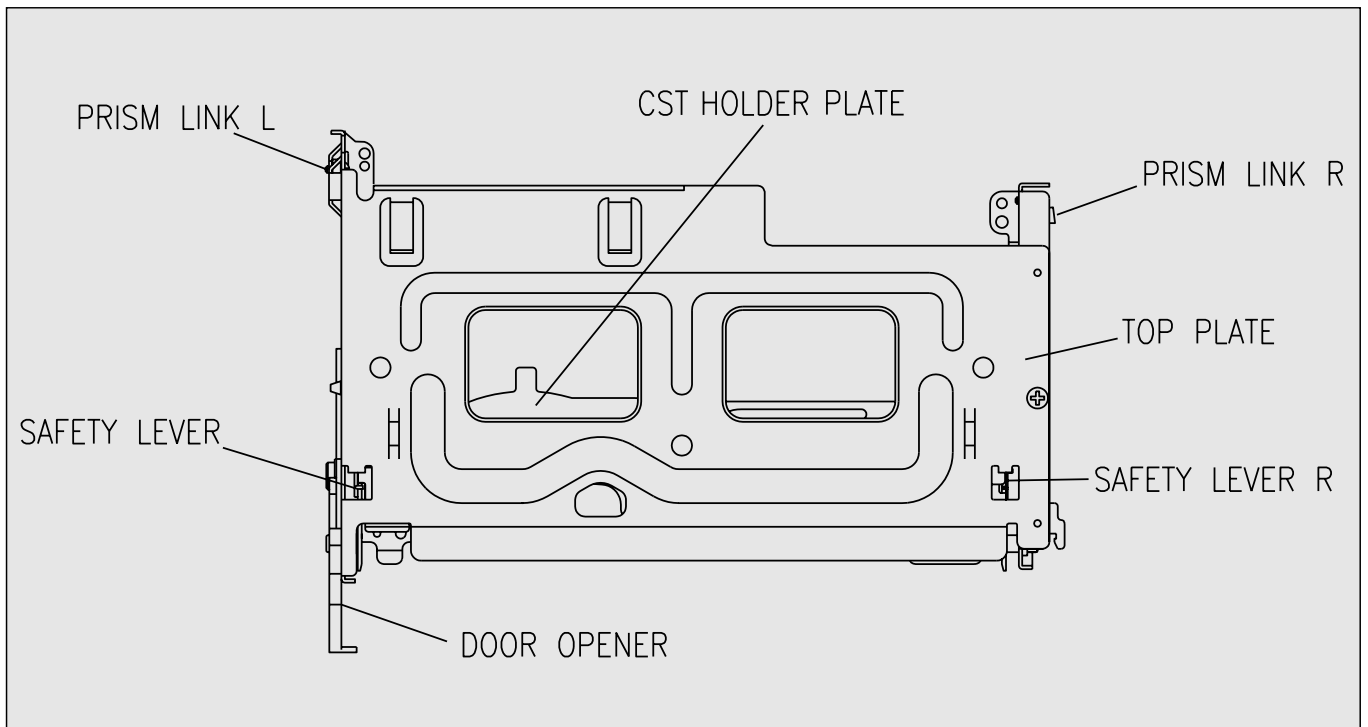


- 1. CAPSTAN MOTOR
- 2. F/L RACK
- 3. CONNECT PLATE
- 4. REEL BELT
- 5. REEL GEAR TOTAL ASS'Y

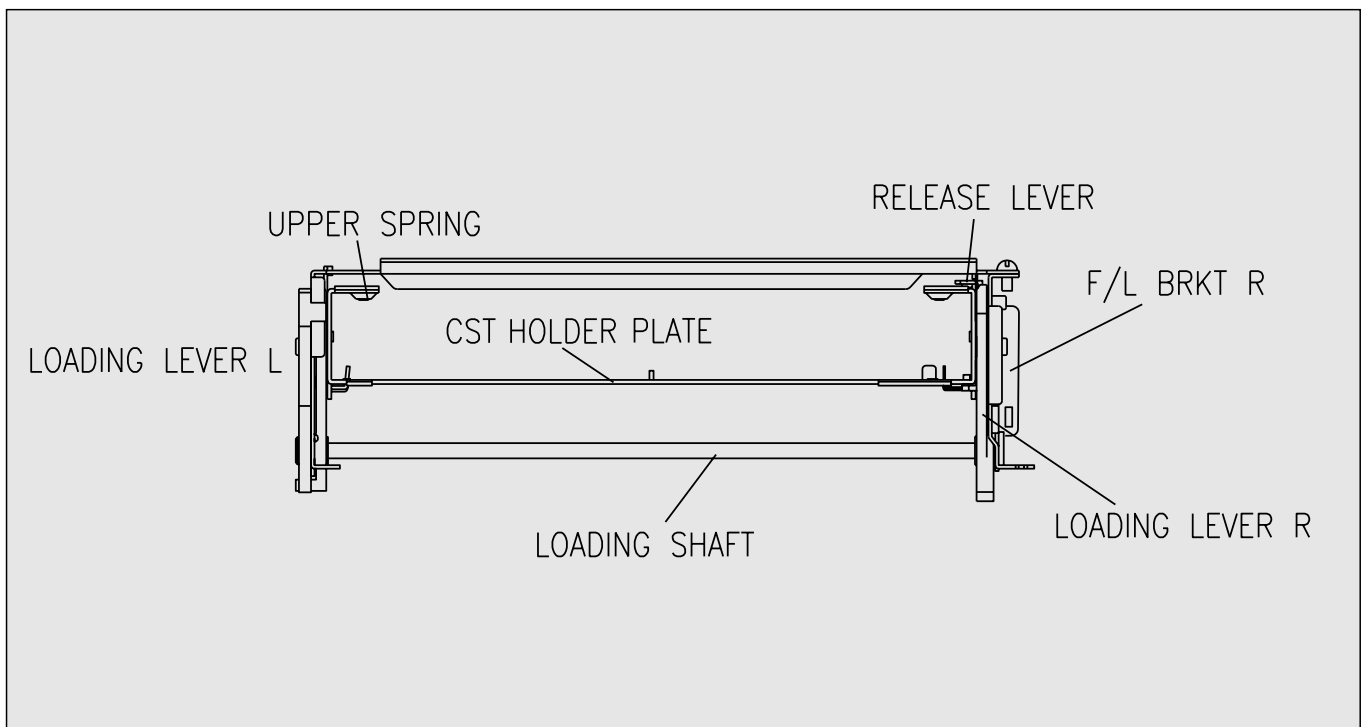
- 6. RECORD SAFETY LEVER
- 7. L LOADING ASS'Y
- 8. R LOADING ASS'Y
- 9. DRUM TOTAL ASS'Y
- 10. LOADING RACK ASS'Y

2-1-2) PARTS LOCATION OF FRONT LOADING ASS'Y

A. TOP VIEW



B. FRONT VIEW



2-2. PERIODIC MAINTENANCE AND SERVICE SCHEDULE

2-2-1) PERIODIC MAINTENANCE AND SERVICE SCHEDULE

A. In order to effectively maintain the excellent performance and fully utilize the features of this apparatus, and to lengthen the life of the mechanism and tapes, we strongly urge you to perform periodic maintenance and inspection, as described below.

✕ After repairing, do the maintenance described below, irrespective of the length of time in use.

B. Cleaning of the Head Drum Ass'y

— Clean the Drum assembly with a cleaning cloth soaked in liquid cleaner (alcohol) by placing lightly against the Drum and slowly revolving the rotating HEAD DRUM Ass'y by hand (Do not rotate the upper Drum by applying electric power to the motor when cleaning).

— Do not move the cleaning cloth in the vertical direction against the heat-tip.

C. Cleaning the tape transporting section.

— Clean the tape transporting parts with a cleaning cloth soaked in alcohol.

D. Cleaning of driving section

— Clean the driving section with a cloth soaked in alcohol.

E. Routine inspection

— Perform maintenance and inspection as separately described depending on the period of time in use.

— Refer to the table of 2-2-3.

2-2-2) CLEANING AND LUBRICATION

A. Cleaning of Tape Transporting section and Driving section

a. Cleaning of Tape Transporting section

— The following parts should be cleaned after every 500 hours of use.

- | | | |
|------------------|-------------------|-------------------|
| ▪ TENSION POLE | ▪ S SLANT POLE | ▪ AC HEAD/AE HEAD |
| ▪ S GUIDE POST | ▪ VIDEO HEAD/DRUM | ▪ T GUIDE POST |
| ▪ FE HEAD | ▪ T SLANT POLE | ▪ CAPSTAN SHAFT |
| ▪ S GUIDE ROLLER | ▪ T GUIDE ROLLER | ▪ PINCH ROLLER |
| ▪ VERTICAL POST | | |

— As the above parts contact with the video tape, they tend to collect dust particles. If they are stained with dust or foreign substance it has a bad effect on the picture and may lead to damage of the tape.

— After cleaning with alcohol, allow the parts to dry thoroughly before using a cassette tape.

b. Cleaning of Driving section

- | | | |
|--------------|---------------------------|---------------|
| ▪ REEL TABLE | ▪ CAPSTAN FLYWHEEL/PULLEY | ▪ REEL PULLEY |
|--------------|---------------------------|---------------|

B. LUBRICATION

- | | | |
|---------------|---------------------|------------------|
| ▪ S REEL POST | ▪ T REEL TABLE POST | ▪ REEL GEAR POST |
|---------------|---------------------|------------------|

— After cleaning these parts with alcohol, lubricate these with one or two drops of oil.

2-2-3) SERVICE SCHEDULE FOR THE MAJOR PARTS

The following parts should receive periodic service, according to the recommended intervals.

NAME	PERIODIC SERVICE (TIME)				
	1000	2000	3000	4000	5000
DRUM TOTAL ASS'Y	i	i	i	i	i
CAPSTAN MOTOR		i		⊙	
L/C BRKT TOTAL ASS'Y		⊙		⊙	
REEL BELT		⊙		⊙	
IDLER PLATE TOTAL ASS'Y		⊙		⊙	
REEL TABLE			⊙		
T SUB BRAKE ASS'Y		⊙		⊙	
TENSION BAND ASS'Y		⊙		⊙	
S MAIN BRAKE ASS'Y		⊙		⊙	
T MAIN BRAKE ASS'Y		⊙		⊙	
PINCH ROLLER ASS'Y		★	⊙	★	
AC HEAD ASS'Y			⊙		
FE HEAD					⊙
REEL GEAR TOTAL ASS'Y		⊙		⊙	

★ : Check and Replace if necessary. ⊙ : Replace

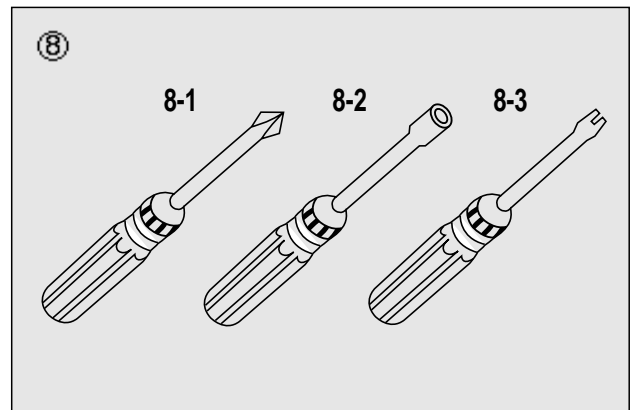
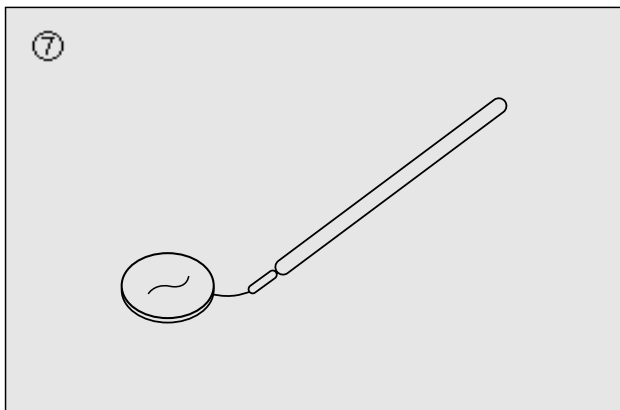
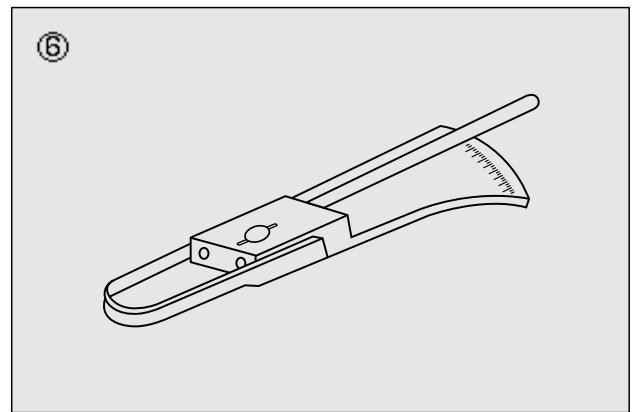
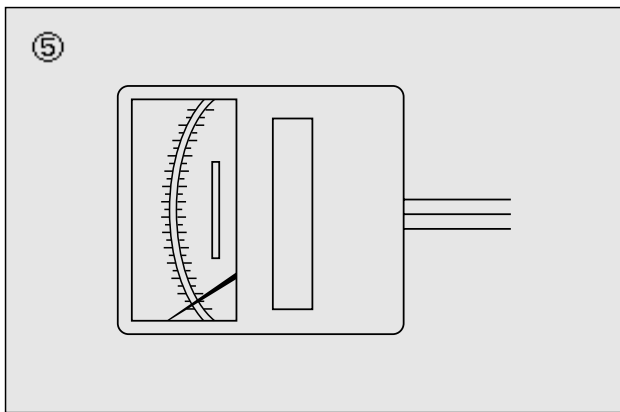
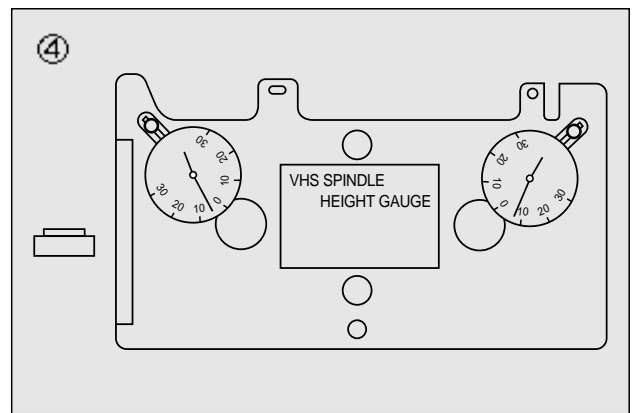
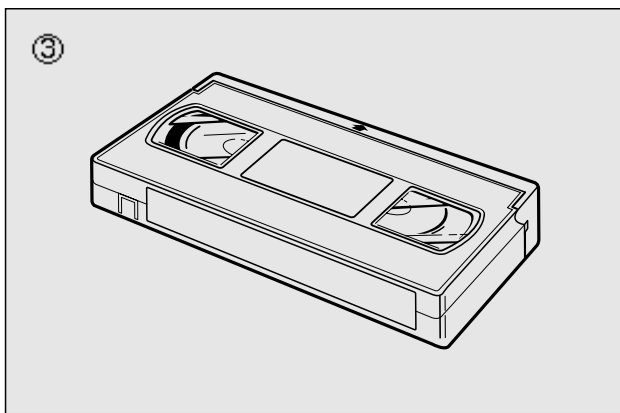
Note: Even though the unit is not used frequently, cleaning, lubrication and replacement of the belt should be undertaken every 2 years.

2-3. JIGS AND TOOLS

2-3-1) LIST OF JIGS AND TOOLS

NO	ITEMS	MODEL	FIG. NO	REMARKS
1	ALIGNMENT TAPE	NTSC: SP MONOSCOPE 7KHz SP COLORBAR 1KHz (EP MONOSCOPE) PAL/SCAM: SP MONOSCOPE 6KHz SP COLORBAR 1KHz (LP MONOSCOPE)	①	CHECKING OF THE TAPE TRANSPORTING SYSTEM
2	CLEANING TAPE (DAEWOO)	DHC-602V	②	CHECKING OF THE TAPE TRANSPORTING SYSTEM
3	CASSETTE TAPE (KOKUSAI)	KT-300NV KT-300RV	③	MEASUREMENT OF REEL TORQUE
4	VHS SPINDLE HEIGHT GAUGE	TSH-V4	④	MEASUREMENT OF REEL HEIGHT
5	TENTELO METER (TENTELO)	T2-H7-UM	⑤	MEASUREMENT OF THE BACK TENSION
6	FAN TYPE TENSION METER	BELOW 3KG	⑥	MEASUREMENT OF THE PRESSING FORCE FOR THE PINCH ROLLER
7	DENTAL MIRROR		⑦	CHECKING OF THE TAPE TRANSPORTING SYSTEM
8	+DRIVER		⑧-1	ASSEMBLY, DISASSEMBLY AND ADJUSTMENT
	HEX DRIVER		⑧-2	
	ADJUSTMENT DRIVER		⑧-3	

2-3-2) SKETCH OF JIGS AND TOOLS



3. DISASSEMBLY AND REPLACEMENT

3-1. FRONT LOADING ASS'Y REMOVAL (See Fig. 3-1)

NOTE:

The FRONT LOADING ASSEMBLY can be removed only in the eject position.

- a. Remove 2 screws ① fixing the Front Loading ASS'Y.
- b. Lift the rear of the front loading assembly to separate it from the Main Base.

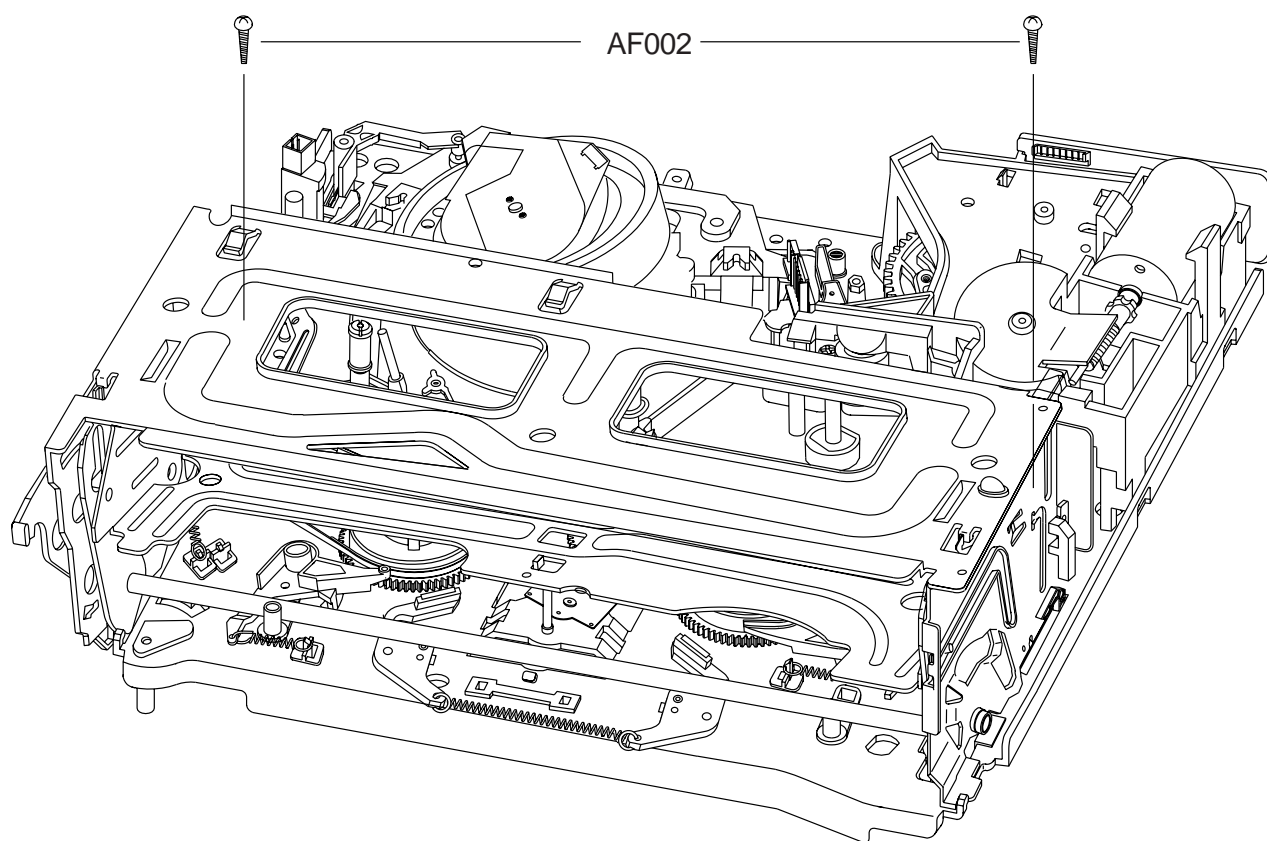


Fig.3-1 FRONT LOADING ASS'Y SEPARATION

3-2. DISASSEMBLY OF THE FRONT LOADING ASS'Y (See Fig. 3-2~3-6)

- a. Remove one screw holding the F/L BRACKET R and move the F/L BRACKET R in the direction of arrow to separate it from the TOP PLATE and CASSETTE HOLDER ASSEMBLY.
- b. Remove the CASSETTE HOLDER ASSEMBLY. (Fig. 3-2)

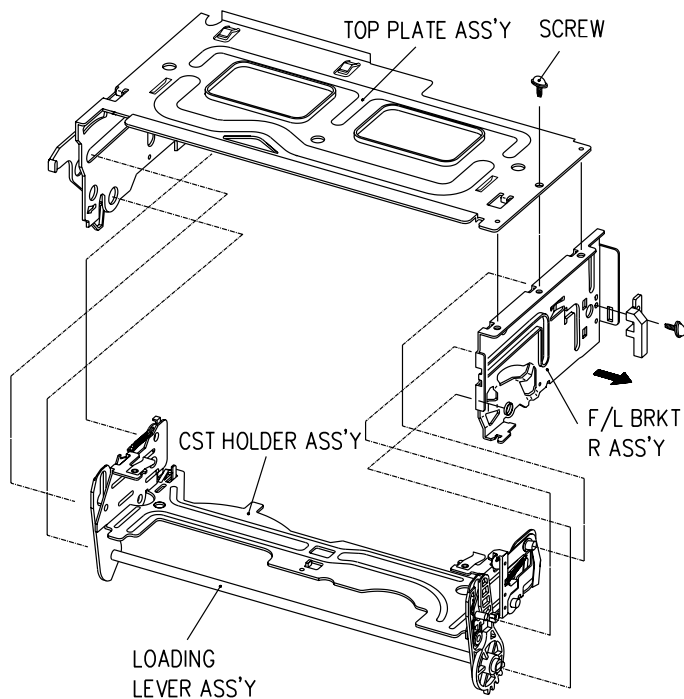


Fig.3-2 DISASSEMBLY OF THE FRONT LOADING ASS'Y

- c. Remove one screw holding the PRISM LINK R and remove the PRISM LINK R from the F/L BRACKET R. (Fig. 3-3)

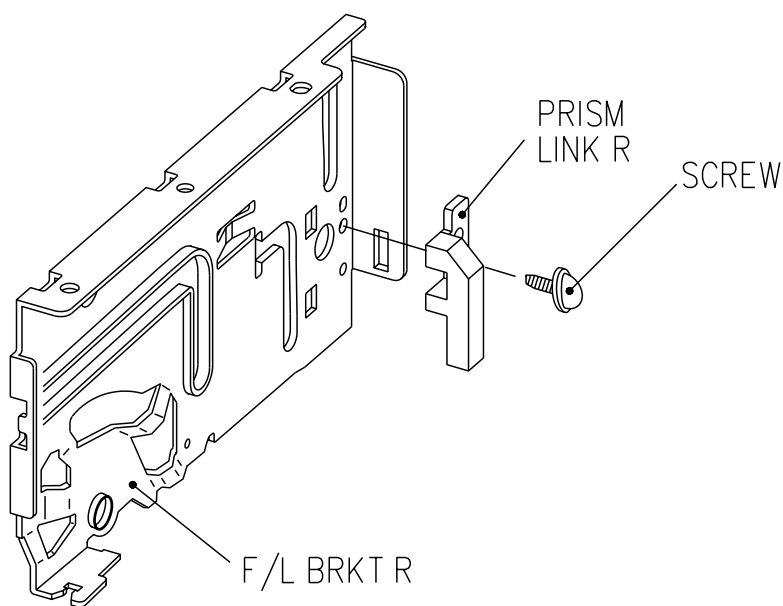


Fig.3-3 DISASSEMBLY OF THE F/L BRKT R

- d. Remove one screw holding the PRISM LINK L. (Fig. 3-4)
- e. Release the hook B by pushing it in the direction of the arrow and remove the DOOR OPENER. (Fig. 3-4)

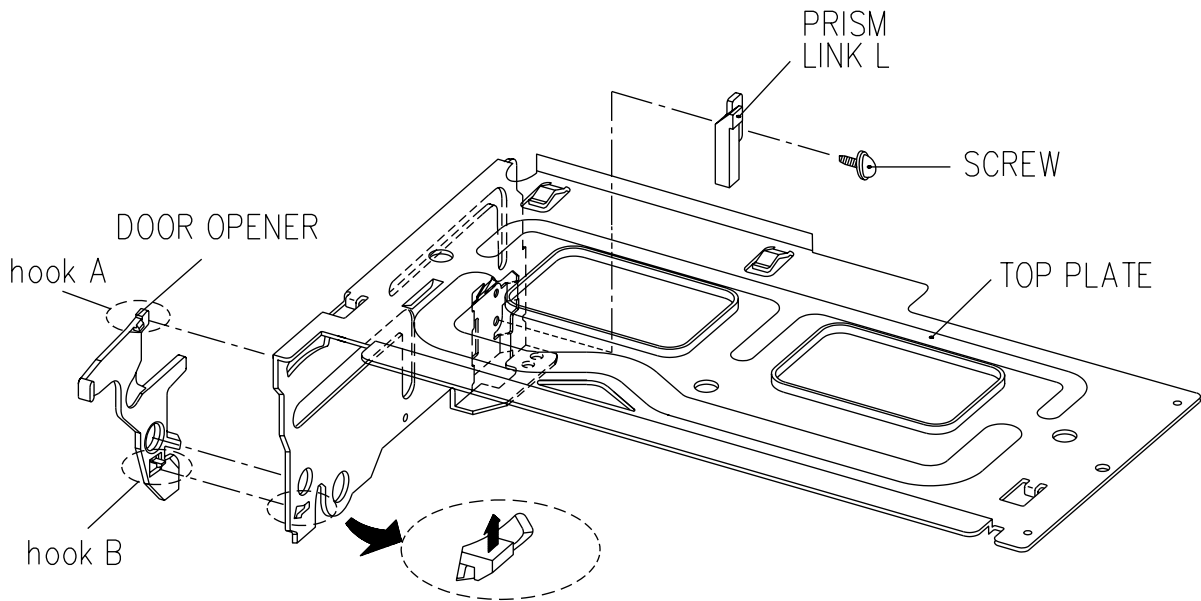


Fig. 3-4 DISASSEMBLY OF THE TOP PLATE

- f. Remove the LOADING LEVER ASSEMBLY by pressing the connected section of the loading lever assembly in the directions of the arrows. (Fig. 3-5)
- g. Remove the SAFETY SPRING between the SAFETY LEVER and the CASSETTE HOLDER PLATE. (Fig. 3-5)
- h. Remove the RELEASE SPRING between the RELEASE LEVER and the SAFETY LEVER R. (Fig. 3-5)

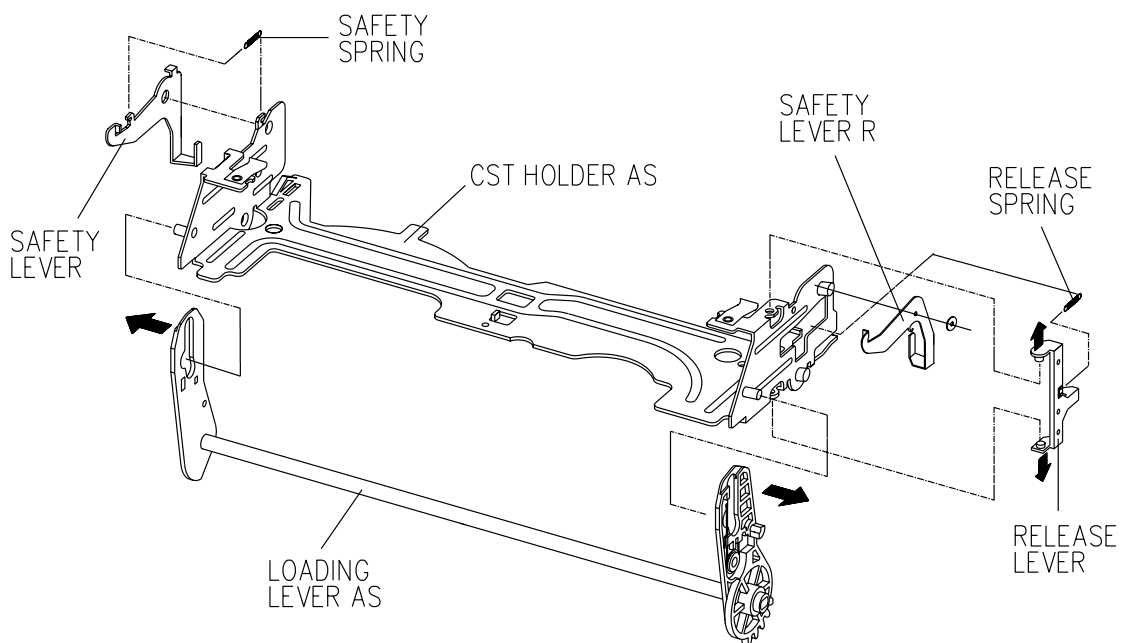


Fig.3-5 DISASSEMBLY OF THE CASSETTE HOLDER ASS'Y

NOTE:

Reassemble the FRONT LOADING MECHANISM in the reverse order. Confirm that the two bosses on the left side of the CASSETTE HOLDER AS are inserted into the groove on the left side of the top plate. Insert the two bosses on the right side of the cassette holder into the groove of the F/L BRACKET R (Fig. 3-6)

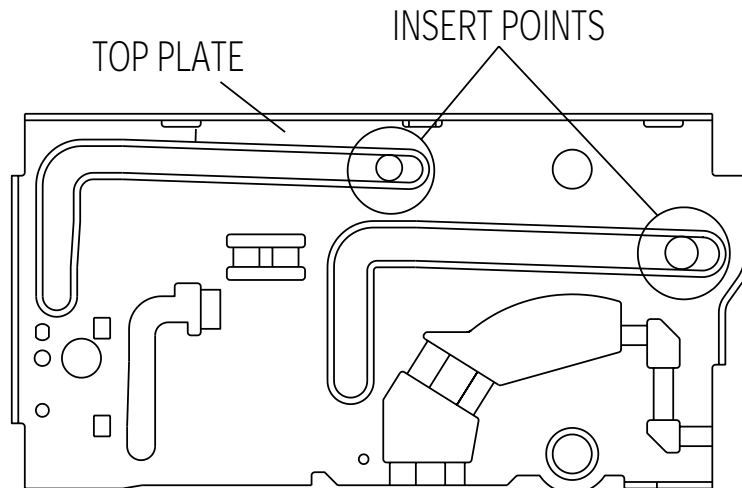


Fig.3-6 ASSEMBLY OF THE F/L ASS'Y

3-3. DRUM ASS'Y/EARTH BRACKET ASS'Y REMOVAL (See Fig.3-7)

- a. Remove three screws ① fixing the DRUM TOTAL ASSEMBLY.
- b. Carefully lift the DRUM TOTAL ASSEMBLY ② from the DECK MECHANISM, taking care not to damage or touch the VIDEO HEAD.

NOTE:

- After assembling the DRUM TOTAL ASSEMBLY, confirm that the TAPE runs smooth and refer to chapter 5 "ADJUSTMENT OF THE TAPE TRANSPORTING SYSTEM".
- When assembling the EARTH BRACKET ASSEMBLY, a 3x12 screw should be used and at the other parts, 3x10 screws should be used.

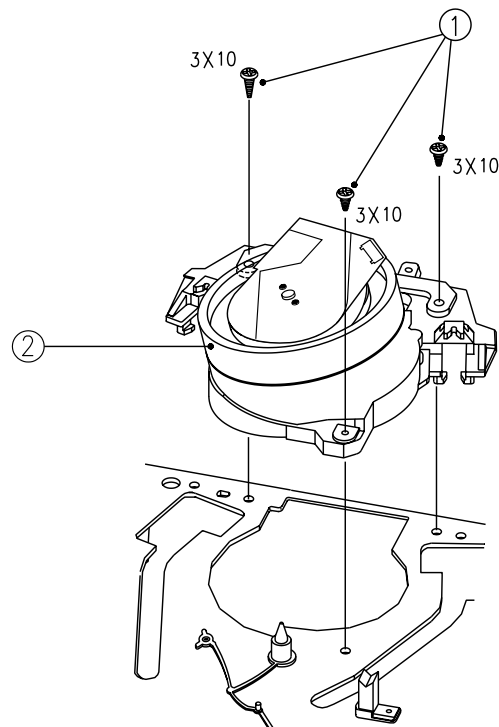


Fig.3-7 DRUM TOTAL ASS'Y & EARTH BRKT ASS'Y REMOVAL

3-4. REEL BELT, LOADING RACK ASS'Y, LOADING ASS'Y, S/T SLANT POLE ASS'Y REMOVAL (See Fig.3-8)

- a. Turn over the DECK MECHANISM and remove the REEL BELT ①.
- b. Remove one POLY WASHER ②.
- c. Remove the LOADING RACK ASS'Y ③.
- d. Remove R & L LOADING ASS'YS ④ and ⑤.
- e. Remove the S and T SLANT POLES ⑥ and ⑦ by pulling them in the directions of the arrows.

CAUTION:

- Take care not to get the GUIDE ROLLERS of the S/T SLANT POLES stained with GREASE
- When reassembling, refer to Fig. 3-9

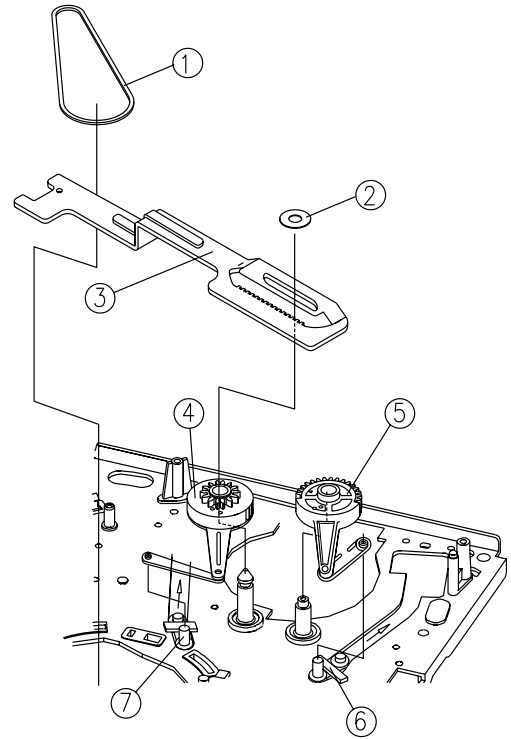


Fig3-8 REEL BELT, LOADING RACK ASS'Y, R & L LOADING ASS'YS, S/T SLANT POLE ASS'Y REMOVAL

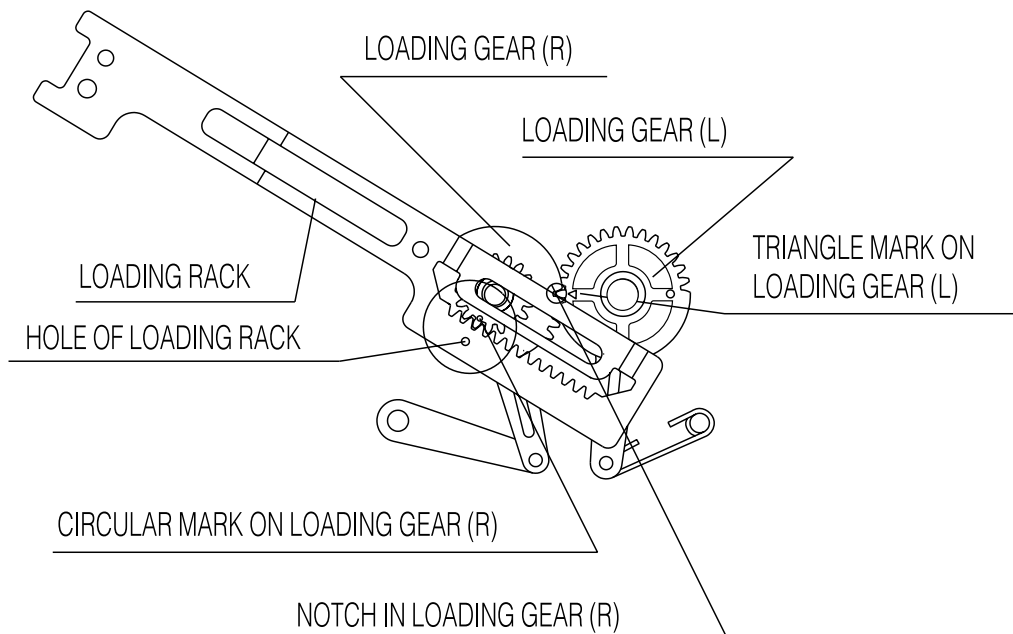


Fig.3-9 ASSEMBLY OF the R,L LOADING ASS'Y & LOADING RACK ASS'Y

3-5. A/C HEAD ASS'Y REMOVAL (See Fig.3-10)

- a. Remove one nut hex ① from the A/C HEAD POST ④ of the MAINBASE.
- b. Remove the A/C HEAD ASSEMBLY ② from the MAINBASE.
- c. Remove the A/C HEAD SPRING ③ from the A/C HEAD ASSEMBLY ②.

NOTE:

- After reassembling, adjust the TAPE TRANSPORTING SYSTEM referring to chapter 5 "ADJUSTMENT OF THE TAPE TRANSPORTING SYSTEM".
- After adjusting the TAPE TRANSPORTING SYSTEM, spread the A/C HEAD/NUT, AZIMUTH SCREW, and TILT SCREW with LOCKING PAINT.

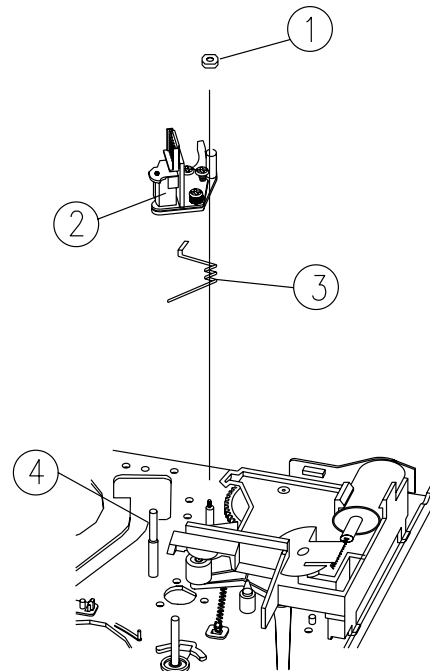


Fig.3-10 DISASSEMBLY OF THE AC HEAD ASS'Y

3-6. L/C BRACKET ASS'Y REMOVAL (See Fig.3-11)

- a. Remove one screw ① from the L/C BRACKET ASSEMBLY ②.
- b. Remove the L/C BRACKET ASSEMBLY ② from the MAINBASE.

3-7. PINCH LEVER TOTAL ASS'Y REMOVAL (See Fig.3-11)

- a. Remove one POLY WASHER ③ from the PINCH LEVER POST of the MAINBASE.
- b. Unhook the PINCH LEVER SPRING ④ from the hook of MAINBASE ⑤ and remove the PINCH LEVER TOTAL ASSEMBLY ⑨.

CAUTION:

Take care not to coat GREASE, OIL or other substances on the surface of the PINCH ROLLER ⑩.

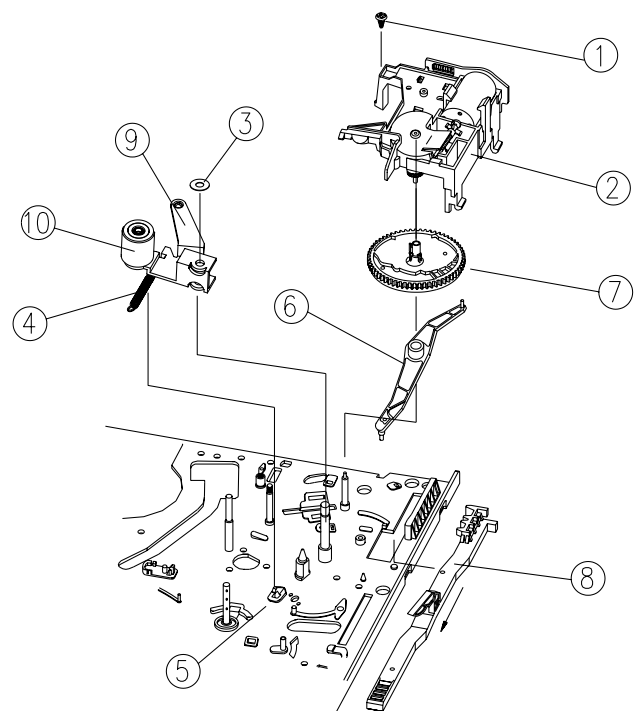


Fig.3-11 L/C BRKT, PINCH LEVER, CAM GEAR, RELAY LEVER, F/L RACK REMOVAL

3-8. CAM GEAR, RELAY LEVER AND F/L RACK REMOVAL (See Fig.3-11)

- Remove the CAM GEAR ⑦ from the MAINBASE. (Fig.3-11)
- Remove the RELAY LEVER ⑥ from the MAINBASE. (Fig. 3-11)
- Remove the F/L RACK ⑧ from the MAINBASE by pulling it in the direction of the arrow.

NOTE:

When reassembling, refer to Fig. 3-12, 13.

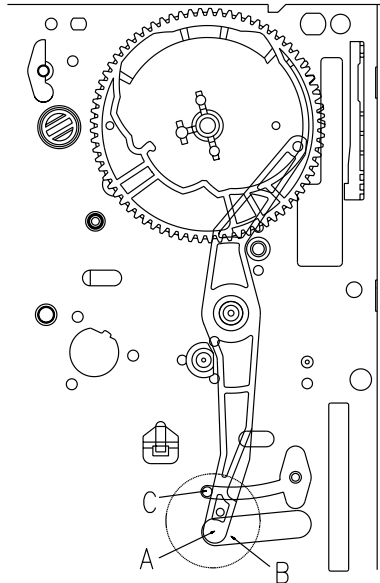


Fig.3-12 ASSEMBLY OF THE CAM GEAR & RELAY LEVER

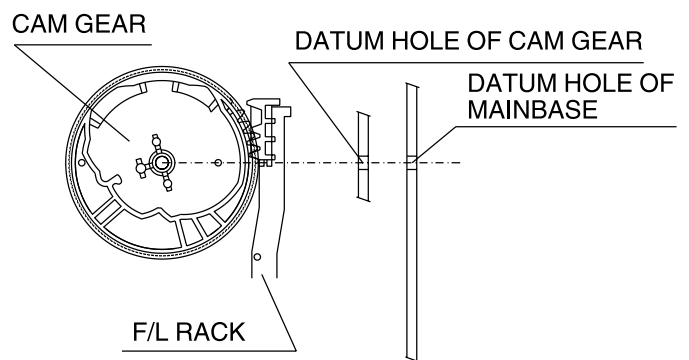


Fig.3-13 ASSEMBLY OF THE CAM GEAR & F/L RACK

3-9. S/T MAIN & SUB BRAKE ASSY REMOVAL (See Fig.3-14)

- Remove the S, T MAIN BRAKE Assembly from the MAIN VASE ⑧.
- Unhook the S SUB BRAKE SPRING ④ from the MAINBASE and remove the S SUB BRAKE LEVER ASSEMBLY ⑤ from the MAIN BASE ⑧.
- Unhook the T SUB BRAKE SPRING ⑥ from the MAINBASE and remove the T SUB BRAKE LEVER ASSEMBLY ⑦.

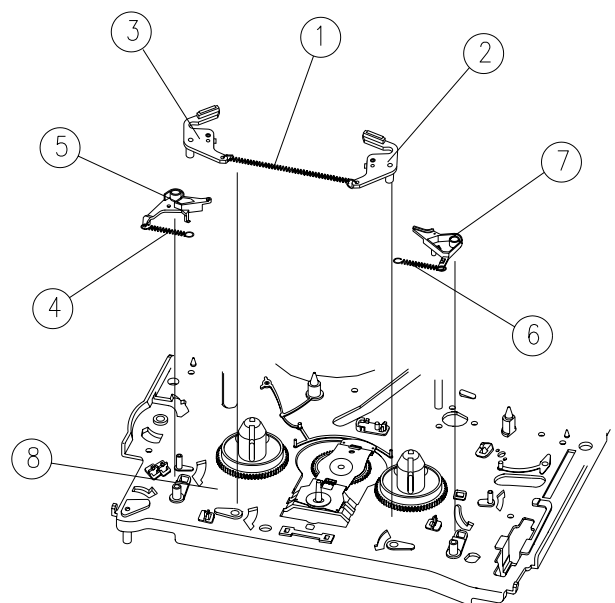


Fig.3-14 S/T MAIN & SUB BRAKES REMOVAL

3-10. TENSION BAND ASS'Y REMOVAL (See Fig.3-15, 3-16)

- a. Remove the TENSION SPRING ② from the MAINBASE ①. (Fig.3-15)
- b. Turn the DECK MECHANISM over. (Fig.3-16)
- c. After separating the tab of hook 'A', remove the TENSION BAND ASSEMBLY ③. (Fig.3-16)

NOTE:

- After assembling the TENSION BAND ASSEMBLY on the MAINBASE, adjust the position of TENSION POLE as shown Fig. 3-17.
- Avoid getting GREASE, OIL or foreign substance on the FELT of the BAND BRAKE.
- Take care not to deform tab 'A' when separating it .

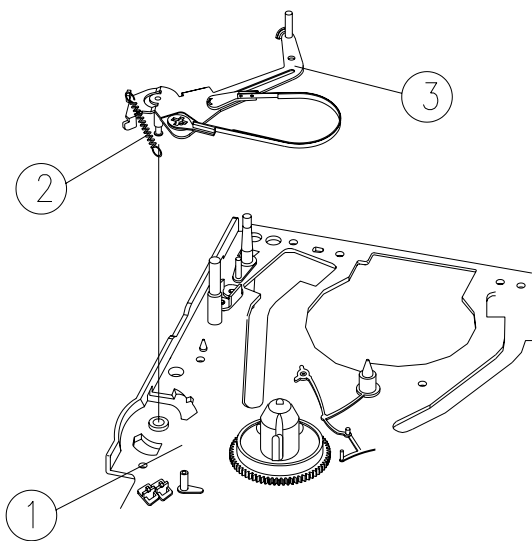


Fig.3-15 TENSION BAND ASS'Y REMOVAL (I)

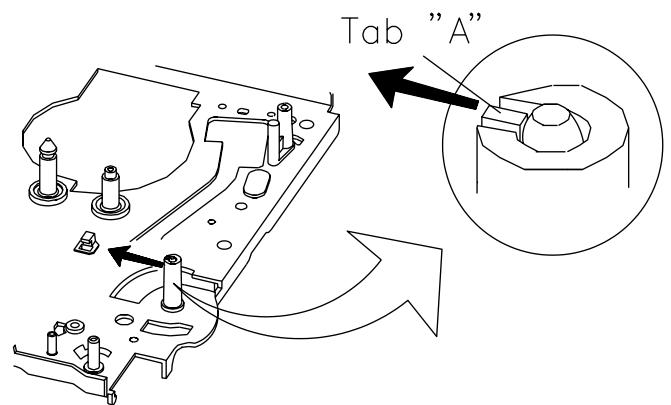


Fig.3-16 TENSION BAND ASS'Y REMOVAL (II)

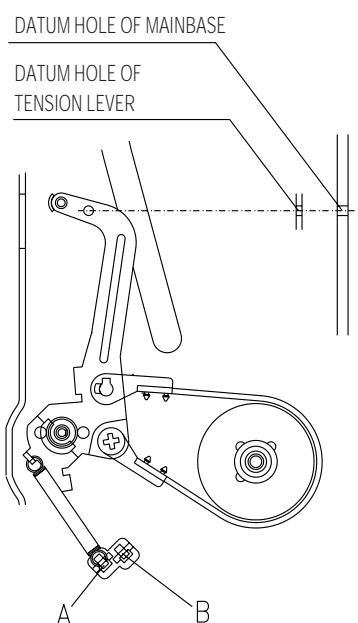


Fig.3-17 ADJUSTMENT OF THE TENSION POLE POSITION

3-11. CAPSTAN MOTOR REMOVAL (See Fig.3-18)

Remove 3 screws fixing the CAPSTAN MOTOR and separate the CAPSTAN MOTOR.

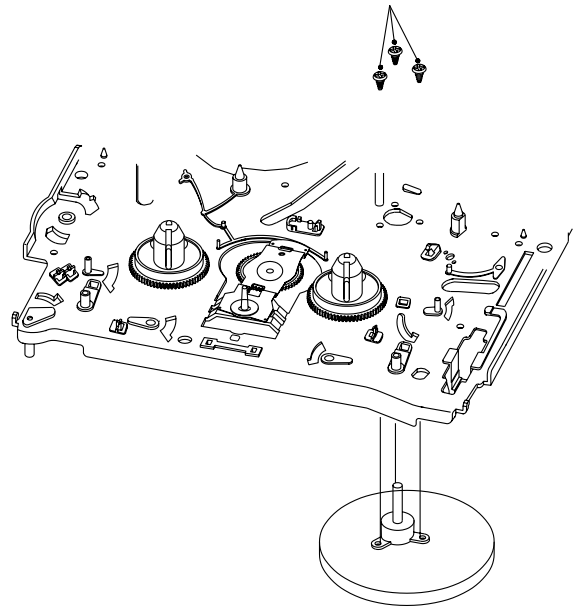


Fig.3-18 CAPSTAN MOTOR REMOVAL

3-12. IDLER PLATE TOTAL ASS'Y & S/T REEL TABLE REMOVAL (See Fig.3-19)

- a. Remove one POLY WASHER ① from the REEL GEAR POST ② and remove the IDLER PLATE TOTAL ASSEMBLY ③ from the MAIN BASE.
- b. Remove the S/T REEL TABLES ④ and two POLY SLIDERS ⑤ from the DECK MECHANISM.

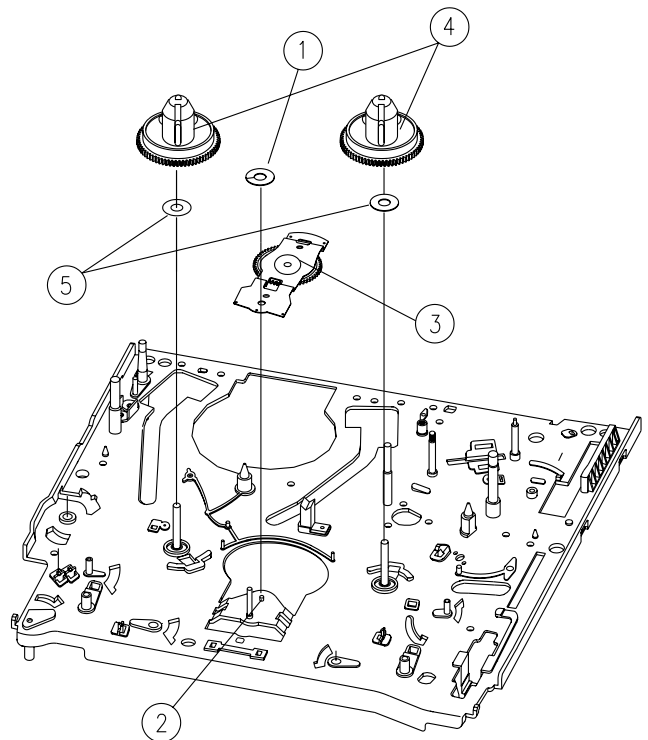


Fig.3-19 IDLER PLATE TOTAL ASS'Y & S/T REEL TABLES REMOVAL

CAUTION:

- When disassembling or assembling the IDLER PLATE TOTAL ASSEMBLY, take care not to bend it.

3-13. FE HEAD REMOVAL (See Fig.3-20)

Remove one screw ① fixing the FE HEAD and remove the FE HEAD ② from the MAINBASE.

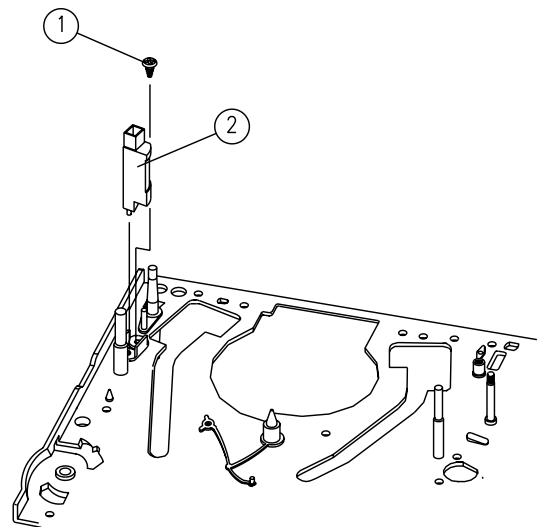


Fig.3-20 FE HEAD REMOVAL

3-14. REEL GEAR TOTAL ASS'Y & CONNECT PLATE REMOVAL (Fig.3-21)

- Turn over the DECK MECHANISM and remove one POLY WASHER ① from the REEL GEAR POST ②.
- After separating tab 'B' of the MAINBASE, remove the REEL GEAR TOTAL ASSEMBLY ③ from the MAINBASE.
- Remove the CONNECT PLATE ④ from the MAINBASE by pushing it in the direction of the arrow.

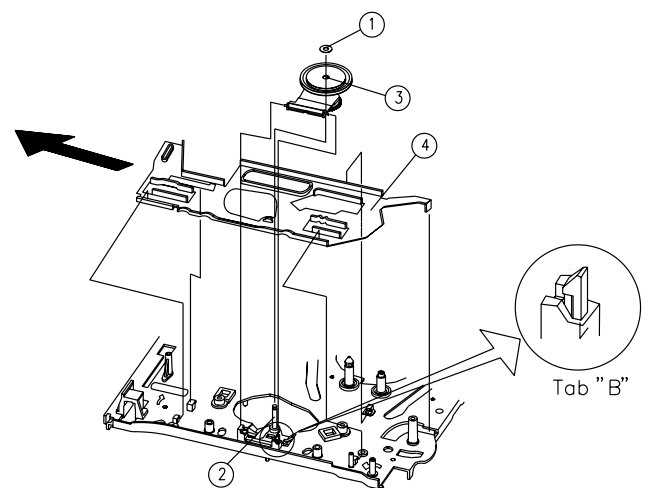


Fig.3-21 REEL GEAR TOTAL ASS'Y & CONNECT PLATE REMOVAL

NOTE:

- When removing the CONNECT PLATE with the F/L RACK installed, take care not to damage or bend the CONNECT PLATE.
- After assembling or disassembling the REEL GEAR TOTAL ASSEMBLY, take care not to get OIL, GREASE or other substances on the REEL BELT.
- Take care not to deform or break tab "B".
- Check the assembly state & the operating state of the REEL GEAR TOTAL ASSEMBLY before assembling.
- After reassembling, check the FF, REW, PLAY and REVIEW MODES and the existence of noise when operating the MODES.

4. MECHANICAL ADJUSTMENT

4-1. MECHANICAL ADJUSTMENT (See Fig.4-1~4-5)

When operational problems occur or the mechanism is reassembled, be sure to confirm the following INSTRUCTIONS.

- a. Make sure that the DATUM HOLE of the CAM GEAR is aligned with the DATUM HOLE in the MAINBASE in the EJECT mode, as shown in Fig.4-1.

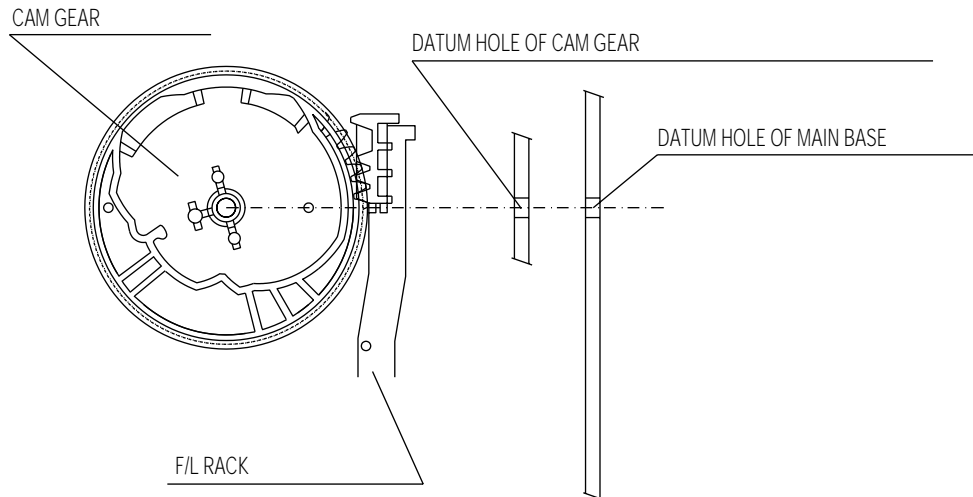


Fig.4-1 DATUM POSITION OF F/L RACK & CAM GEAR

- b. Make sure that part "A" of the RELAY LEVER, when assembled in the CONNECT PLATE, is fully rotated to the left side of "B" of the MAINBASE, and is touching boss "C" of the MAINBASE as, shown in Fig.4-2.

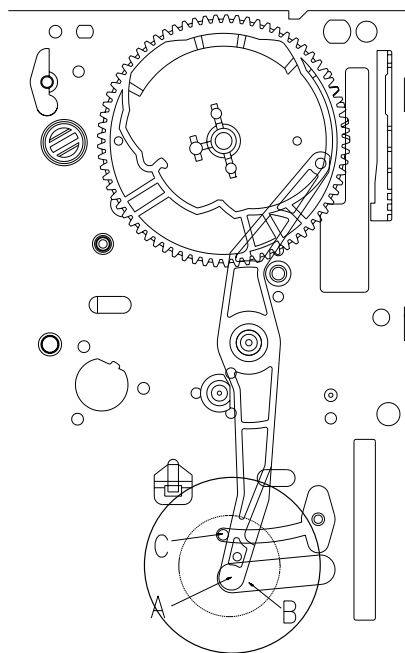


Fig.4-2 DATUM POSITION OF RELAY LEVER & CAM GEAR

c. When reassembling the L/C BRACKET TOTAL ASSEMBLY on the MAINBASE, make sure that the two triangular marks of CAM SWITCH are aligned with each other as shown in Fig.4-3.

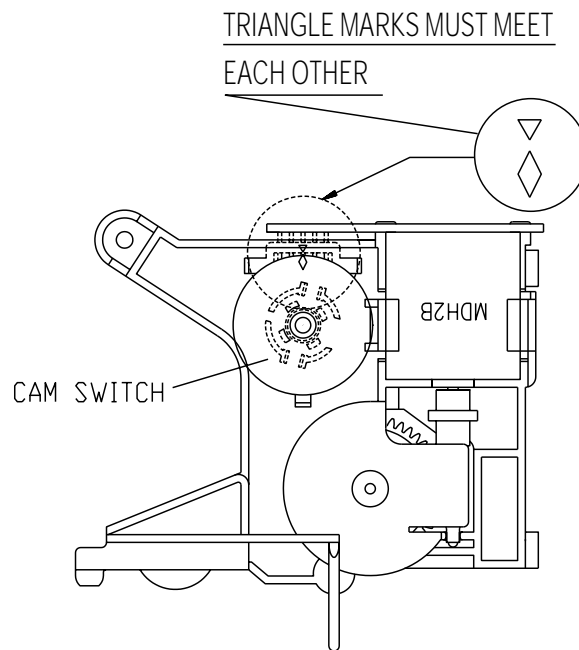


Fig.4-3 DATUM POSITION OF CAM SWITCH TRIANGULAR MARKS

d. Make sure that boss "A" of the PINCH LEVER TOTAL ASSEMBLY is positioned at point "B" of the CAM GEAR, as shown in Fig.4-4.

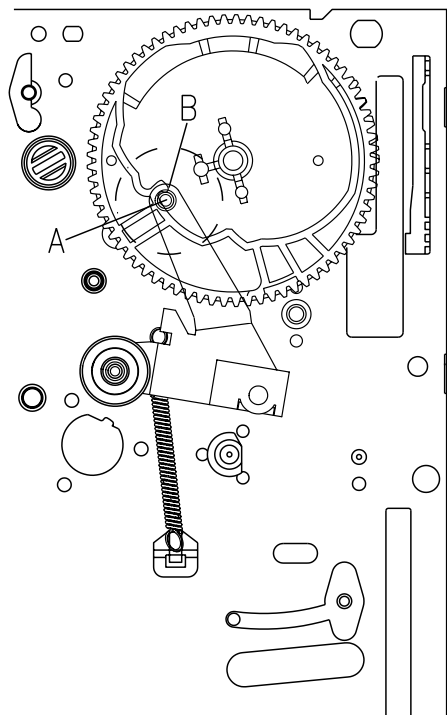


Fig.4-4 DATUM POSITION OF PINCH LEVER TOTAL ASS'Y & CAM GEAR

- e. Make sure that the triangular mark "A" on the L LOADING ASSEMBLY is aligned with the notch "B" on the R LOADING ASSEMBLY as shown in Fig. 4-5.
- f. Make sure that the teeth of the LOADING RACK ASSEMBLY are aligned with those of the R LOADING ASSEMBLY so that the hole of the LOADING RACK ASSEMBLY aligns with the circular mark on the R LOADING ASSEMBLY, as shown in Fig.4-5.

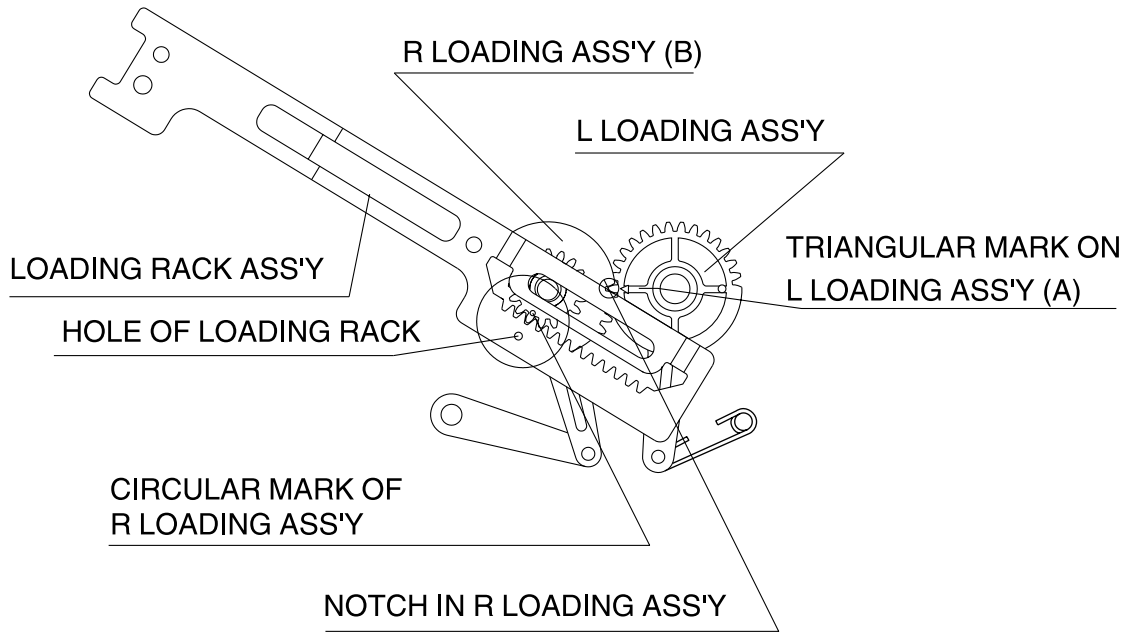


Fig.45 DATUM POSITION OF LOADING RACK ASS'Y & R/L LOADING LEVER ASS'YS

4-2. BACK TENSION MEASUREMENT (See Fig.4-6~4-7)

- Confirm that the position of the TENSION POLE is correctly POSITIONED. Refer to the "4-4 TENSION POLE POSITION ADJUSTMENT".
- Play back a T-120 TAPE at its center position without assembling F/L ASSEMBLY and wait until the TAPE running is stabilized (about 5~10 seconds).
- Bring the TENTELOMETER into contact with the TAPE (Fig.4-6) and measure the BACK TENSION. The measuring result should be between 25 and 33 grams.
- If the measuring result is not within this specification, refer to the NOTE below or repeat "4-4 TENSION POLE POSITION ADJUSTMENT". (Fig. 4-7)

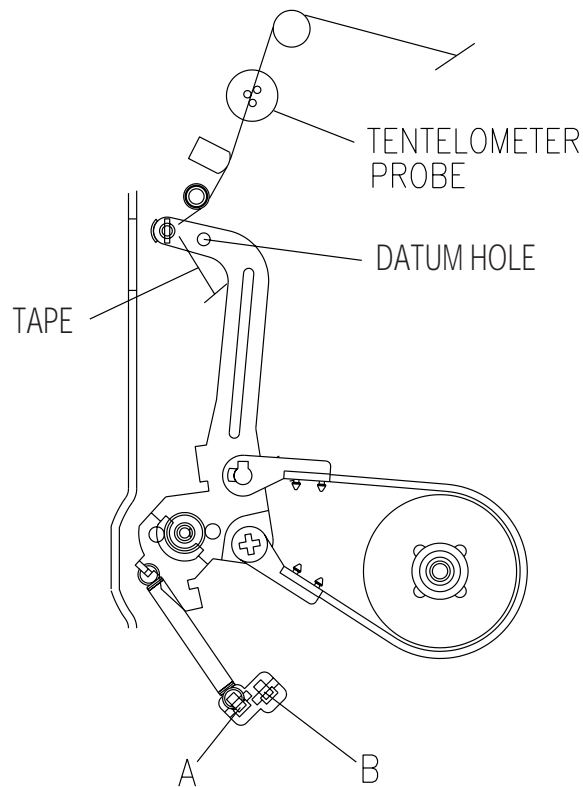


Fig.4-6 BACK TENSION MEASUREMENT

NOTE:

- If the measuring result is not within the specification, change the TENSION SPRING position. (To decrease the result, choose hook A. Otherwise, choose hook B).
- Confirm that all of the three probes of the TENSION METER are in contact with the TAPE. During this process, don't touch any other parts of the MECHANISM (i.e, MAINBASE).
- It is recommended that this measurement be repeated at least three times for an accurate reading.

4-3. MECHANICAL MODE (OPERATING THE VCR WITHOUT A CASSETTE TAPE)

- a. Remove the FRONT LOADING MECHANISM from the DECK MECHANISM.
- b. Pull the F/L RACK.
- c. The S/T POLE BASES are loaded and PLAY BACK MODE starts.
- d. Turn off the power when the MECHANISM is in the desired position.

4-4. TENSION POLE POSITION ADJUSTMENT

- a. MAKE MECHANICAL MODE be PLAY MODE. Refer to "4-3 MECHANICAL MODE".
- b. Confirm that the datum hole of TENSION LEVER is aligned with the datum hole of the MAIN BASE.
- c. If requirement "b" is not satisfied, turn the BAND BRAKE ADJUST CAP clockwise or counter-clockwise until the two datum hole are aligned with each other.

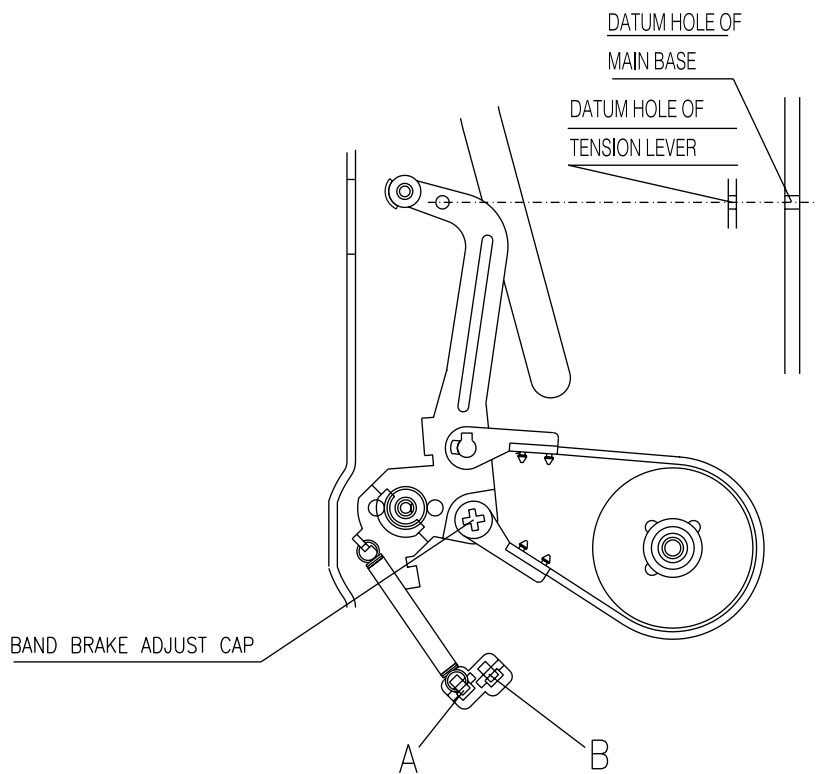


Fig.4-7 TENSION POLE POSITION ADJUSTMENT

5. ADJUSTMENT OF TAPE TRANSPORTING SYSTEM

Generally the TAPE TRANSPORTING SYSTEM has been precisely adjusted in the factory and does not ordinarily require readjustment. But when noise and tape damage take place and part assemblies that compose the TAPE TRANSPORTING SYSTEM are replaced, check and readjust the TAPE TRANSPORTING SYSTEM. Refer to the following FLOW CHART in order to adjust the TAPE TRANSPORTING SYSTEM.

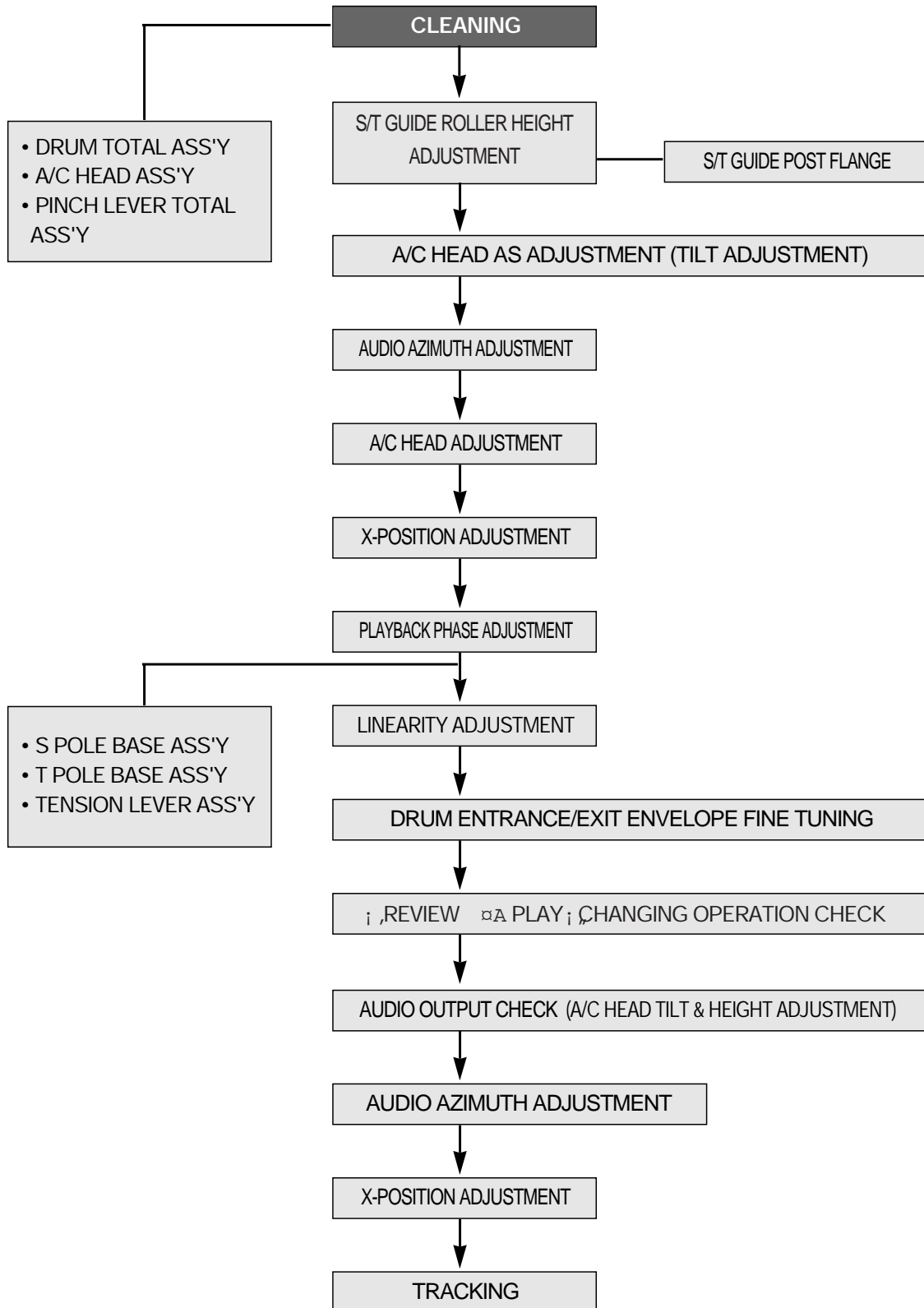


Table.1 ADJUSTMENT FLOW DIAGRAM OF THE TAPE TRANSPORTING SYSTEM

B. ADJUSTMENT OF THE A/C HEAD ASS'Y (TILT ADJUSTMENT)

- Play back a T-120 Tape and check the running condition of the TAPE at the lower flanges of the T GUIDE POST ASS'Y in Fig. 5-1.
- Adjust the A/C HEAD TILT SCREW until the TAPE runs stable as shown in Fig. 5-2

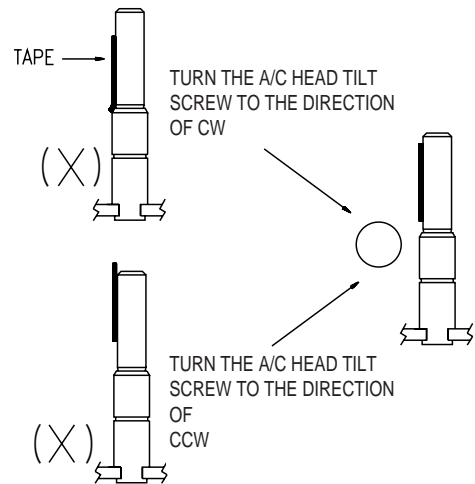
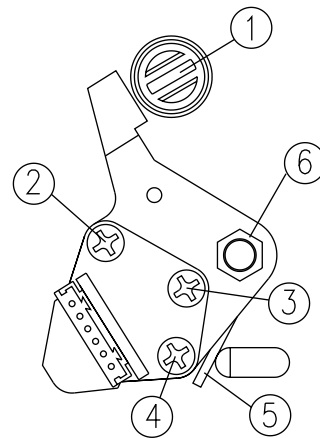


Fig. 5-2 A/C HEAD ASS'Y ADJUSTMENT (TILT ADJUSTMENT)

C. ADJUSTMENT OF THE AUDIO AZIMUTH (See Fig.5-3)

- Play back the ALIGNMENT CASSETTE TAPE (NTSC: DN2 (SP, 7KHz), PAL: DP2 (SP, 6KHz))
- Observe audio signals on an OSCILLOSCOPE.
- Turn the A/C HEAD AZIMUTH SCREW to obtain the maximum audio output signal (-9~-3dBm).



- | | |
|-------------------------|------------------|
| ① ADJUST BOSS | ④ FIXING SCREW |
| ② AC HEAD AZIMUTH SCREW | ⑤ AC HEAD SPRING |
| ③ AC HEAD TILT SCREW | ⑥ AC HEAD NUT |

Fig. 5-3 A/C HEAD ASS'Y

D. THE HEIGHT ADJUSTMENT OF A/C HEAD

- Play back a T-120 TAPE.
- Make sure that the gap is 0.25mm between the lower end of TAPE and that of A/C HEAD.
- When the gap is longer than 0.25mm, turn the A/C HEAD HEIGHT ADJUST NUT counter-clockwise. When the gap is shorter than 0.25mm, turn it clockwise. Repeat this procedure until 0.25mm is obtained.

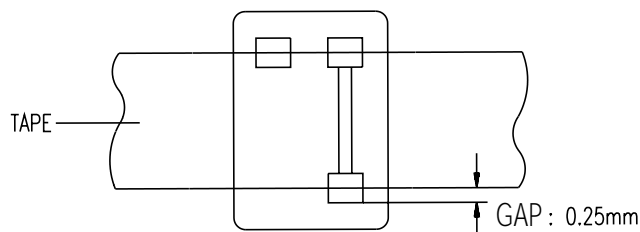


Fig. 5-4 A/C HEAD ASS'Y ADJUSTMENT (HEIGHT ADJUSTMENT)

E. X-POSITION ADJUSTMENT

TEST POINTS	S/W PULSE TEST PIN	PATH ADJ. FIXTURE
	ENVELOPE TEST PIN	PATH ADJ. FIXTURE
MEASURING EQUIPMENT	OSCILLOSCOPE	
ADJUSTMENT	VR CONTROL	PATH ADJ. FIXTURE
	ADJUST BOSS	MAIN BASE.

- Connect the path adjustment fixture to PT01 of the MAIN CIRCUIT BOARD.
- Play back the ALIGNMENT TAPE (COLOR BAR ALIGNMENT).
- Connect channel-1 scope probe to S/W PULSE TEST PIN of PATH ADJ, FIXTURE.
- Connect channel-2 scope probe to ENVELOPE TEST PIN of PATH ADJ, FIXTURE.
- Turn the VR CONTROL to the center point. (If the VR CONTROL is completely turned counter-clockwise, it is positioned on another tracking center.)
- With the VR CONTROL in the center state, turn the ADJUST BOSS by using FLAT TYPE SCREW DRIVER and adjust the X-POSITION to obtain the maximum envelope waveform.

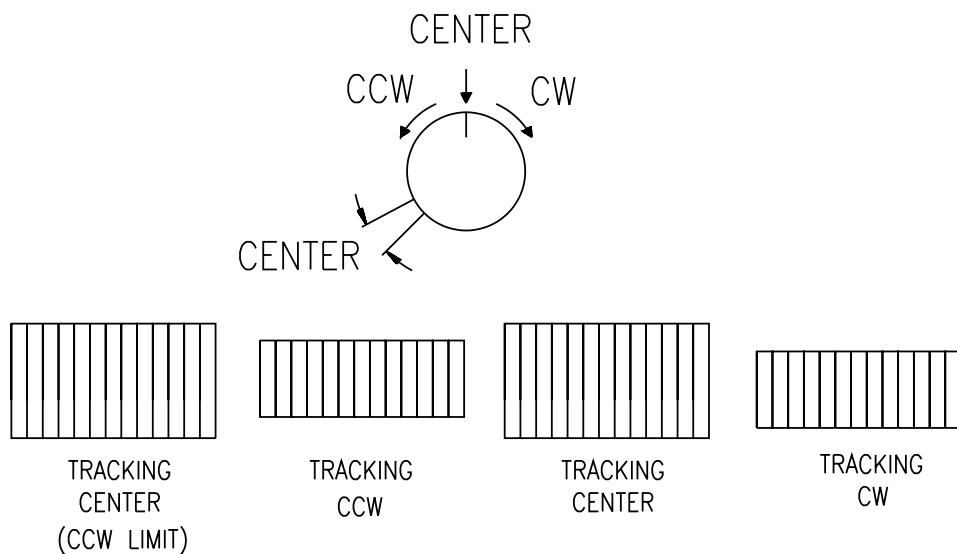


Fig. 5-5 X-POSITION ADJUSTMENT

F. PLAYBACK PHASE ADJUSTMENT (See Fig. 5-6)

TEST POINTS	S/W PULSE TEST PIN	PATH ADJ. FIXTURE
	VIDEO OUT	MAIN CIRCUIT BOARD
MEASURING EQUIPMENT	OSCILLOSCOPE	
ADJUSTMENT	VR595 (PG SHIFTER)	MAIN CIRCUIT BOARD

Phase generator (PG) shifter decides the VIDEO HEAD switching point when a TAPE is played back. In case the Phase generator (PG) shifter isn't correctly tuned, HEAD switching noise or vertical jitter may occur.

- Connect the PATH ADJ. FIXTURE to PT01 of the MAIN CIRCUIT BOARD.
- Play the ALIGNMENT TAPE (COLOR BAR SIGNAL OR MONOSCOPE SIGNAL)
- Connect the channel-1 scope probe to the S/W PULSE TEST PIN of the PATH ADJ. FIXTURE.
- Connect the channel-2 scope probe(1V/div.) to the VIDEO OUT of the MAIN CIRCUIT BOARD.
- Play back the ALIGNMENT TAPE.
- Adjust the PG volume for time interval of $6.5H \pm 0.5$ between switching pulse and V-sync signal.

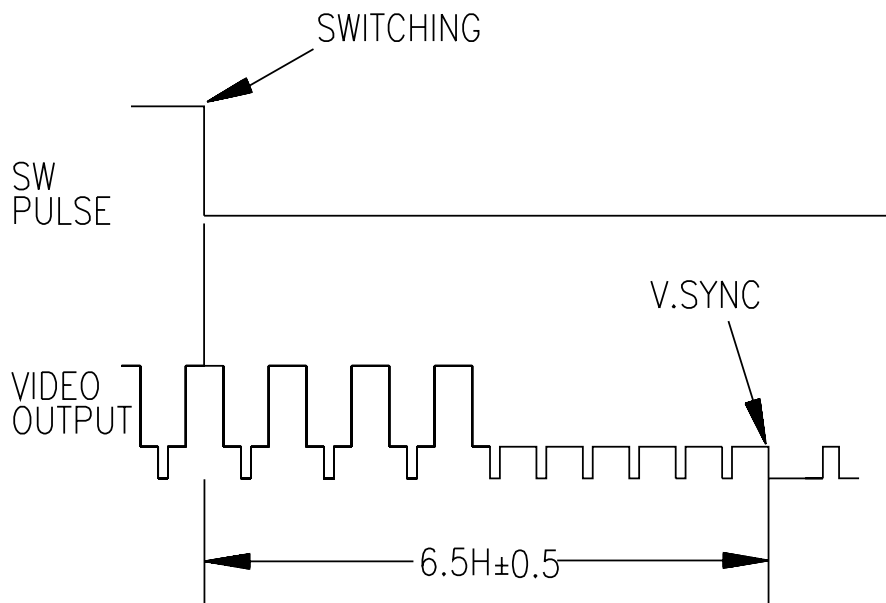


Fig. 5-6 PLAYBACK PHASE ADJUSTMENT

G. LINEARITY ADJUSTMENT

TEST POINTS	S/W PULSE TEST PIN	PATH ADJ. FIXTURE
	ENVELOPE TEST PIN	PATH ADJ. FIXTURE
MEASURING EQUIPMENT	OSCILLOSCOPE	
ADJUSTMENT	VR CONTROL	PATH ADJ. FIXTURE
	S/T GUIDE ROLLER	TAPE TRANSPORTING SYSTEM

- Connect the PATH ADJ. FIXTURE to PT01 of the MAIN CIRCUIT BOARD.
- Play back the ALIGNMENT TAPE (COLOR BAR SIGNAL).
- Connect the channel-1 scope probe to the S/W PULSE TEST PIN of the PATH ADJ. FIXTURE.
- Connect the channel-2 scope probe to the ENVELOPE TEST PIN of the PATH ADJ. FIXTURE.
- Adjust the VR CONTROL of the PATH ADJ. FIXTURE for maximum envelope signal output of the alignment tape.
- Adjust the S/T GUIDE ROLLER until the envelope signal waveforms of the entrance and exit sides are as shown in Fig. 5-7.

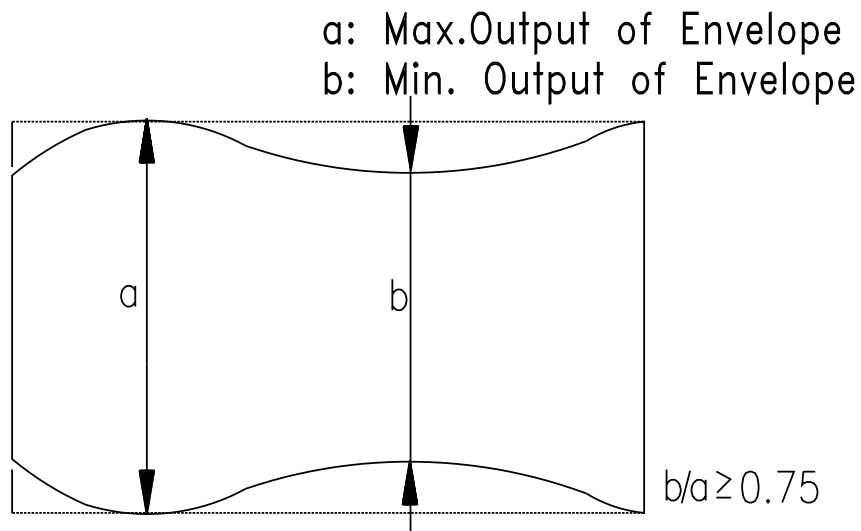


Fig. 5-7 LINEARITY ADJUSTMENT

H. DRUM ENTRANCE /EXIT (See Fig. 5-8, 5-9)

TEST POINTS	S/W PULSE TEST PIN	PATH ADJ. FIXTURE
	ENVELOPE TEST PIN	PATH ADJ. FIXTURE
MEASURING EQUIPMENT	OSCILLOSCOPE	
ADJUSTMENT	VR CONTROL	PATH ADJ. FIXTURE
	S/T GUIDE ROLLER	TAPE TRANSPORTING SYSTEM

- Connect the PATH ADJ. FIXTURE to PT01 the MAIN CIRCUIT BOARD.
- Play back the ALIGNMENT TAPE (COLOR BAR SIGNAL).
- Connect the channel-1 scope probe to the S/W PULSE TEST PIN of the PATH ADJ. FIXTURE.
- Connect the channel-2 scope probe to the ENVELOPE TEST PIN of the PATH ADJ. FIXTURE.
- When turning the VR CONTROL of the PATH ADJ. FIXTURE clockwise or counter-clockwise, affirm that the envelope thickness changes uniformly.
- If the envelope is not uniform and regular, adjust the S/T GUIDE ROLLER.

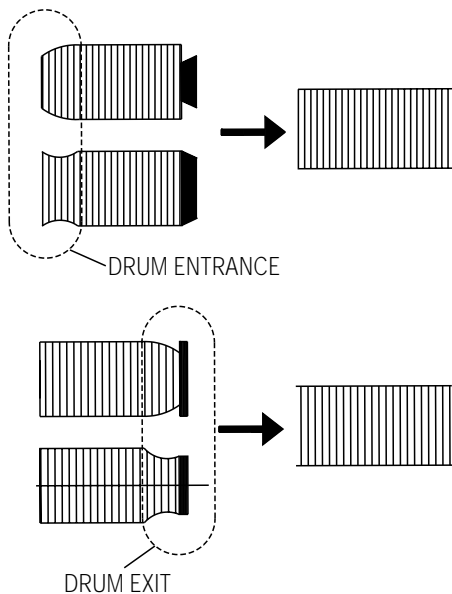


Fig. 5-8 FINE TUNING OF THE ENVELOPE AT THE DRUM ENTRANCE/EXIT (I)

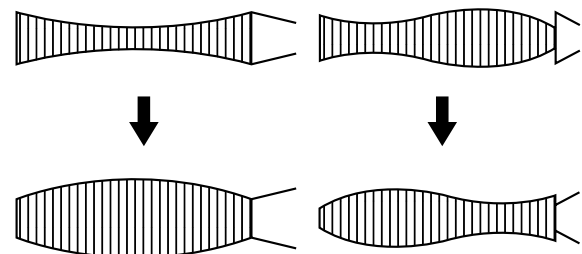


Fig.5-9 FINE TUNING OF THE ENVELOPE AT THE DRUM ENTRANCE/EXIT (II)

I. REVIEW \leftrightarrow PLAY (See Fig. 5-10)

TEST POINTS	S/W PULSE TEST PIN	PATH ADJ. FIXTURE
	ENVELOPE TEST PIN	PATH ADJ. FIXTURE
MEASURING EQUIPMENT	OSCILLOSCOPE	
ADJUSTMENT	VR CONTROL	PATH ADJ. FIXTURE
	S/T GUIDE ROLLER	TAPE TRANSPORTIN SYSTEM

- Connect the PATH ADJ. FIXTURE to PT01 of the MAIN CIRCUIT BOARD.
- Play back the ALIGNMENT TAPE (SP, COLOR BAR SIGNAL).
- Connect the channel-1 scope probe to the S/W PULSE TEST PIN of the PATH ADJ. FIXTURE.
- Connect the channel-2 scope probe to the ENVELOPE TEST PIN of the PATH ADJ. FIXTURE.
- Adjust the VR CONTROL of the PATH ADJ. FIXTURE to the center to obtain the maximum envelope signal of the ALIGNMENT TAPE.
- After operating the VCR in the REVIEW MODE about 15 secs, change the REVIEW MODE to the PLAY BACK MODE.
- Change operation mode from REVIEW MODE to PLAY MODE and then make sure that the envelope waveform is restored to the maximum condition within 3 seconds.
- If the requirement is not satisfied, make sure that the TAPE runs normal at the lower part of the T GUIDE POST. Then adjust the S/T GUIDE ROLLER precisely.

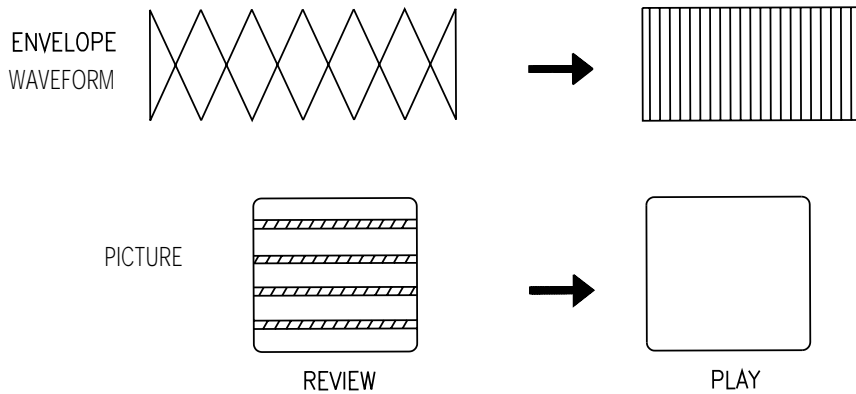


Fig. 5-10 CHECK OF TRANSITIONAL OPERATION (FROM REVIEW WAVEFORM TO PLAY WAVEFORM)

J. AUDIO OUTPUT (A/C HEAD TILT & HEIGHT ADJUSTMENT)

TEST POINTS	AUDIO OUTPUT	AUDIO OUTPUT JACK
MEASURING EQUIPMENT	OSCILLOSCOPE	

- a. Connect the OSCILLOSCOPE to the AUDIO OUTPUT JACK.
- b. Play back the ALIGNMENT TAPE (NTSC: DN1 (SP, 1KHz), PAL: DP1 (SP, 1KHz)).
- c. Check the AUDIO OUTPUT SIGNAL is -9~-3dBm.
- d. If the requirement "c" is not satisfied, adjust the A/C HEAD TILT SCREW and A/C HEAD HEIGHT NUT to obtain the maximum audio output. (Fig. 5-3)

K. A/C HEAD AZIMUTH ADJUSTMENT

- a. Connect the OSCILLOSCOPE to the AUDIO OUTPUT JACK.
- b. Play back the ALIGNMENT TAPE (NTSC: DN2 (SP, 7KHz), PAL: DP2 (SP, 6KHz)).
- c. Adjust the A/C HEAD AZIMUTH SCREW to obtain the audio output -9~-3dBm. (Fig. 5-3)
- d. Repeat the process "H. DRUM ENTRANCE/EXIT".

TEST POINTS	AUDIO OUTPUT	AUDIO OUTPUT JACK
MEASURING EQUIPMENT	OSCILLOSCOPE	

L. X-POSITION (See Fig. 5-11)

TEST POINTS	S/W PULSE TEST PIN	PATH ADJ. FIXTURE
	ENVELOPE TEST PIN	PATH ADJ. FIXTURE
MEASURING EQUIPMENT	OSCILLOSCOPE	
ADJUSTMENT	VR CONTROL	PATH ADJ. FIXTURE
	ADJUST BOSS	MAIN BASE.

- Connect the PATH ADJ. FIXTURE to PT01 of the MAIN CIRCUIT BOARD.
- Play back the ALIGNMENT TAPE (COLOR SIGNAL BAR).
- Connect the channel-1 scope probe to the S/W PULSE TEST PIN of the of the PATH ADJ. FIXTURE.
- Connect the channel-2 scope probe to the ENVELOPE TEST PIN of the PATH ADJ. FIXTURE.
- Adjust the VR CONTROL to the center position. (When the VR CONTROL is completely turned counter-clockwise, it is set at another tracking center position).
- When the VR CONTROL is fully rotated clockwise or counter-clockwise, turn the ADJUST BOSS of the MAINBASE and adjust the X-POSITION for the envelope waveform to be as shown in Fig. 5-11
- Repeat the process "F. PLAYBACK PHASE ADJUSTMENT".

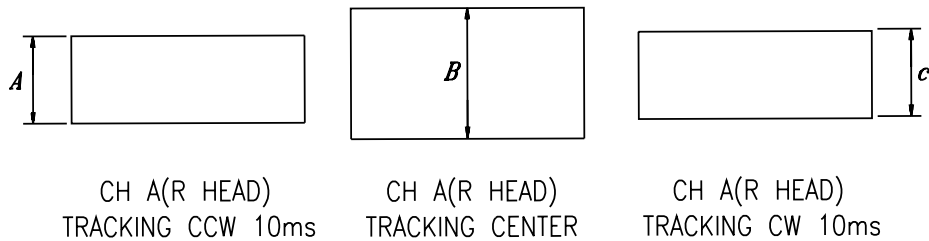
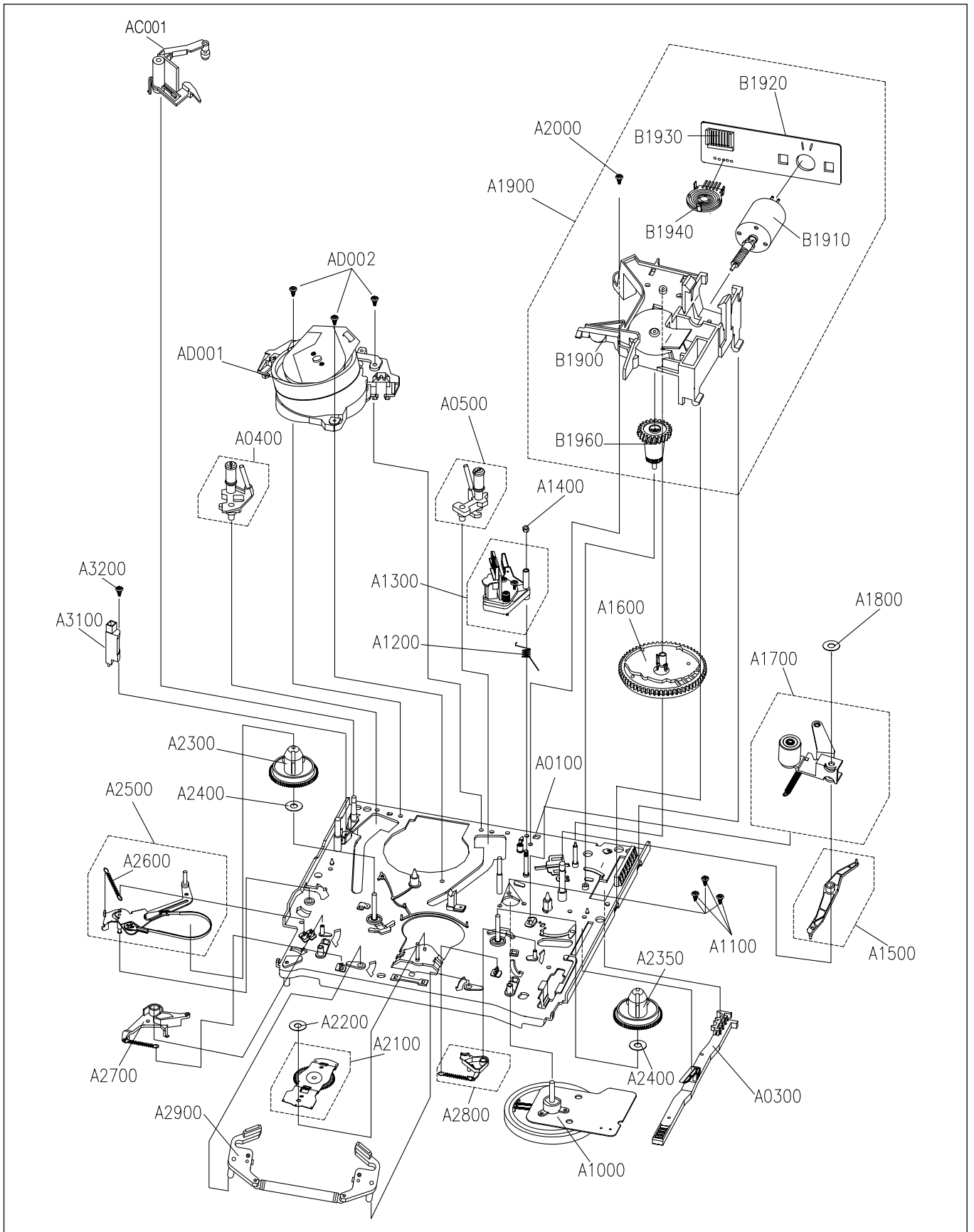


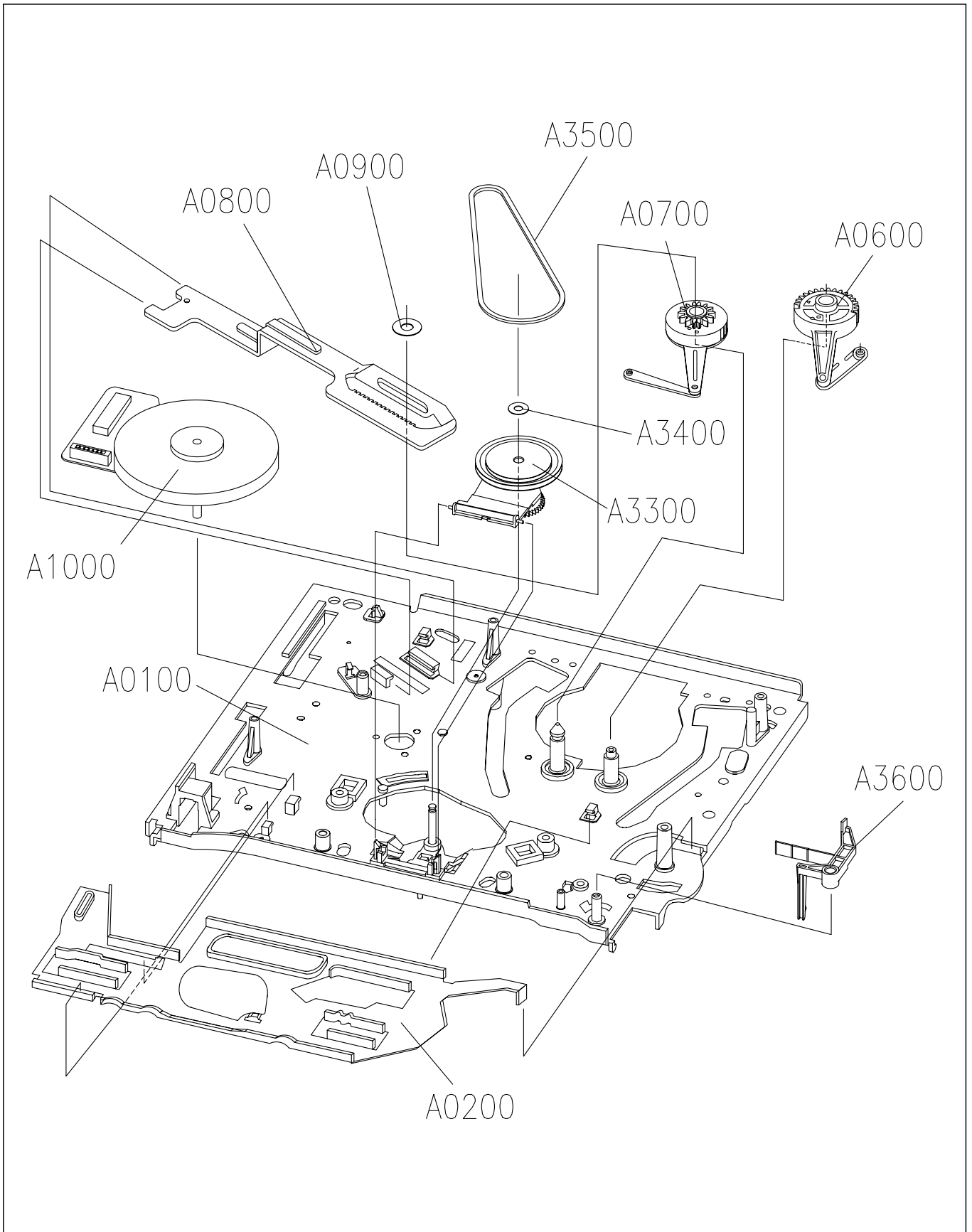
Fig. 5-11 X-POSITION ADJUSTMENT

6. EXPLODED VIEW AND PARTS LIST

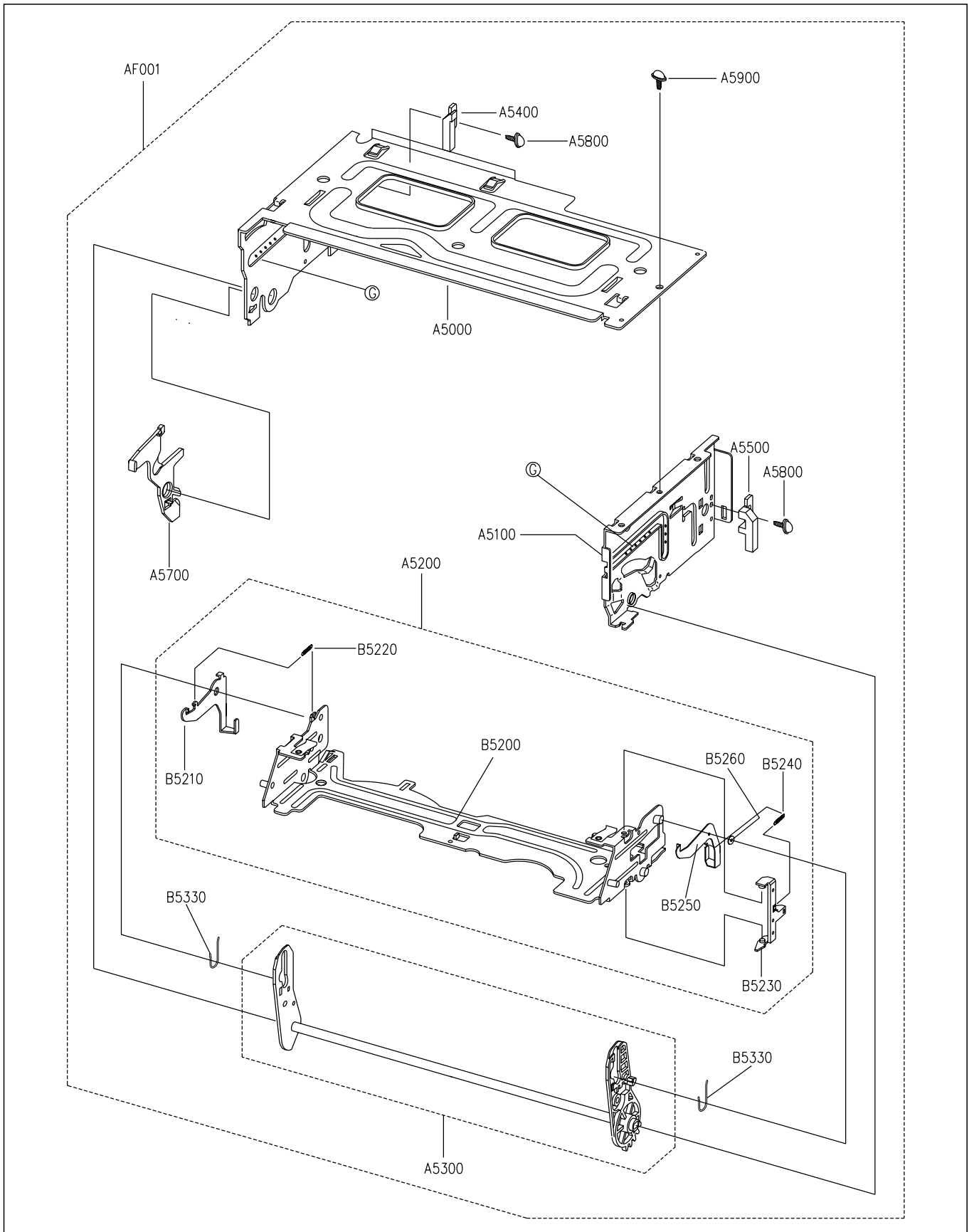
6-1. EXPLODED VIEW OF DECK ASS'Y (TOP VIEW)



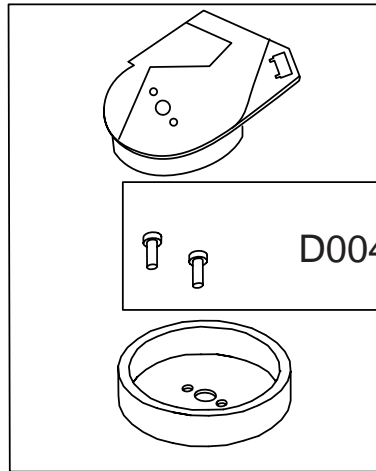
6-2. EXPLODED VIEW OF DECK ASSY (BOTTOM VIEW)



6-3. EXPLODED VIEW OF F/L ASS'Y



D0040



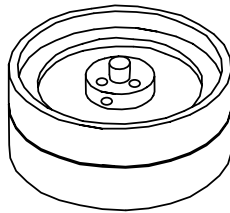
D0020

D0040

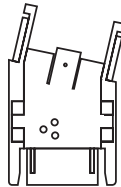
D0050



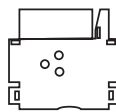
D0010



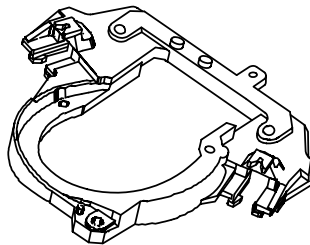
D0060



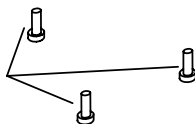
D0070



D0080



D0090



6-4-1. PARTS LIST OF DECK TOTAL ASS'Y

LOC.	STOCK NO.	PART NAME	DESCRIPTION	
NTSC				
M1000	97PC0245D-	DECK TOTAL AS	DRN-9200(2HD SP/EP MONO NON)	K50
M1000	97PC0246D-	DECK TOTAL AS	DRN-9201(2HD SP/EP MONO NON, HEAD CLNER)	K50
M1000	97PC0269D-	DECK TOTAL AS	DRN-9220(2HD SP/EP MONO DLC)	K50
M1000	97PC0266D-	DECK TOTAL AS	DRN-9400(4HD MONO NON)	K50
M1000	97PC0247D-	DECK TOTAL AS	DRN-9401(4HD MONO NON, HEAD CLNER)	K50
M1000	97PC0270D-	DECK TOTAL AS	DRN-9420(4HD NOMO DLC)	K50
M1000	97PC0268D-	DECK TOTAL AS	DRN-9429A(4HD MONO DLC,HEAD CLNER)	TIMELAPSE
M1000	97PC0349D-	DECK TOTAL AS	DRN-9409A(4HD MONO NON,HEAD CLNER)	TIMELAPSE
M1000	97PC0265D-	DECK TOTAL AS	DRN-9600(4HD HI-FI NON)	K50
M1000	97PC0248D-	DECK TOTAL AS	DRN-9601(4HD HI-FI NON,HEAD CLNER)	K50
M1000	97PC0271D-	DECK TOTAL AS	DRN-9620(4HD HI-FI DLC)	K50
PAL				
M1000	97PC0332D-	DECK TOTAL AS	DRP-9100(2HD SP MONO NON)	K30
M1000	97PC0333D-	DECK TOTAL AS	DRP-9120(2HD SP MONO DLC)	K30
M1000	97PC0334D-	DECK TOTAL AS	DRP-9121(2HD SP MONO DLC, HEAD CLNER)	K30
M1000	97PC0335D-	DECK TOTAL AS	DRP-9200(2HD SP/LP MONO NON)	K30
M1000	97PC0336D-	DECK TOTAL AS	DRP-9201(2HD SP/LP NON,HEAD CLNER)	K30
M1000	97PC0337D-	DECK TOTAL AS	DRP-9220(2HD SP/LP MONO DLC)	K30
M1000	97PC0338D-	DECK TOTAL AS	DRP-9401(4HD MONO NON,HEAD CLNER)	K30
M1000	97PC0339D-	DECK TOTAL AS	DRP-9400(4HD MONO NON)	K30
M1000	97PC0340D-	DECK TOTAL AS	DRP-9420(4HD MONO DLC)	K30
M1000	97PC0341D-	DECK TOTAL AS	DRP-9421(4HD MONO DLC,HEAD CLNER)	K30
M1000	97PC0342D-	DECK TOTAL AS	DRP-9600(4HD HI-FI NON)	K30
M1000	97PC0343D-	DECK TOTAL AS	DRP-9601(4HD HI-FI NON,HEAD CLNER)	K30
M1000	97PC0253D-	DECK TOTAL AS	DRP-9620(4HD HI-FI DLC)	K30
M1000	97PC0344D-	DECK TOTAL AS	DRP-9621(4HD HI-FI DLC,HEAD CLNER)	K30
M1000	97PC0348D-	DECK TOTAL AS	DRP-9429A(4HD MONO DLC,HEAD CLNER)	TIMELAPSE
PAL				
M1000	97PC0317D-	DECK TOTAL AS	DRP-9200N(2HD SP/LP MONO NON)	K50
M1000	97PC0323D-	DECK TOTAL AS	DRP-9201N(2HD SP/LP MONO NON,HEAD CLNER)	K50
M1000	97PC0314D-	DECK TOTAL AS	DRP-9220N(2HD SP/LP MONO DLC)	K50
M1000	97PC0320D-	DECK TOTAL AS	DRP-9221N(2HD SP/LP MONO DLC,HEAD CLNER)	K50
M1000	97PC0316D-	DECK TOTAL AS	DRP-9400N(4HD MONO NON)	K50
M1000	97PC0322D-	DECK TOTAL AS	DRP-9401N(4HD MONO NON,HEAD CLNER)	K50
M1000	97PC0313D-	DECK TOTAL AS	DRP-9420N(4HD MONO DLC)	K50
M1000	97PC0319D-	DECK TOTAL AS	DRP-9421N(4HD MONO DLC,HEAD CLNER)	K50
M1000	97PC0315D-	DECK TOTAL AS	DRP-9600N(4HD HI-FI NON)	K50
M1000	97PC0321D-	DECK TOTAL AS	DRP-9601N(4HD HI-FI NON,HEAD CLNER)	K50
M1000	97PC0312D-	DECK TOTAL AS	DRP-9620N(4HD HI-FI DLC)	K50
M1000	97PC0318D-	DECK TOTAL AS	DRP-9621N(4HD HI-FI DLC,HEAD CLNER)	K50

LOC.	STOCK NO.	PART NAME	DESCRIPTION	
SECAM				
	97PC0345D-	DECK TOTAL AS	DRS-9400(4HD MONO NON)	K30
	97PC0346D-	DECK TOTAL AS	DRS-9420(4HD MONO DLC)	K30
	97PC0347D-	DECK TOTAL AS	DRS-9600(4HD HI-FI NON)	K30
	97PC0254D-	DECK TOTAL AS	DRS-9620(4HD HI-FI DLC)	K30
SECAM				
	97PC0327D-	DECK TOTAL AS	DRS-9400N(4HD MONO NON)	K50
	97PC0325D-	DECK TOTAL AS	DRS-9420N(4HD MONO DLC)	K50
	97PC0326D-	DECK TOTAL AS	DRS-9600N(4HD HI-FI NON)	K50
	97PC0324D-	DECK TOTAL AS	DRS-9620N(4HD HI-FI DLC)	K50

6-4-2. PARTS LIST OF DRUM PRICE ASS'Y

LOC.	STOCK NO.	PART NAME	DESCRIPTION
NTSC			
AD001	97PA277471	DRUM PRICE AS	CYN-T212(2HD SP/EP DLC)
AD001	97PA264841	DRUM PRICE AS	CYN-T213(2HD SP/EP BLK)
AD001	97PA269001	DRUM PRICE AS	CYN-T410(4HD MONO NON)
AD001	97PA277571	DRUM PRICE AS	CYN-T412(4HD MONO DLC)
AD001	97PA264941	DRUM PRICE AS	CYN-T413(4HD MONO BLK)
AD001	97PA269101	DRUM PRICE AS	CYN-T610(4HD HI-FI NON)
AD001	97PA277671	DRUM PRICE AS	CYN-T612(4HD HI-FI DLC)
AD001	97PA265041	DRUM PRICE AS	CYN-T613(4HD HI-FI BLK)
AD001	97PA272071	DRUM PRICE AS	CYN-T312(4HD HI-FI NON)
PAL			
AD001	97PA265871	DRUM PRICE AS	CYP-KT112(2HD SP ONLY DLC)
AD001	97PA269901	DRUM PRICE AS	CYP-KT110(2HD SP ONLY NON)
AD001	97PA265971	DRUM PRICE AS	CYP-KT212(2HD SP/LP DLC)
AD001	97PA270001	DRUM PRICE AS	CYP-KT210(2HD SP/LP NON)
AD001	97PA266071	DRUM PRICE AS	CYP-KT412(4HD MONO DLC)
AD001	97PA270101	DRUM PRICE AS	CYP-KT410(4HD MONO NON)
AD001	97PA272771	DRUM PRICE AS	CYP-KT612(4HD HI-FI DLC)
AD001	97PA272601	DRUM PRICE AS	CYP-KT610(4HD HI-FI NON)
SECAM			
AD001	97PA266171	DRUM PRICE AS	CYS-KT412(4HD MONO DLC)
AD001	97PA270201	DRUM PRICE AS	CYS-KT410(4HD MONO NON)
AD001	97PA272971	DRUM PRICE AS	CYS-KT612(4HD HI-FI DLC)
AD001	97PA272801	DRUM PRICE AS	CYS-KT610(4HD HI-FI NON)

6-4-3.PARTS LIST OF DRUM TOTAL ASS'Y

LOC.	STOCK NO.	PART NAME	DESCRIPTION	
DRUM AS				
D0010		DRUM AS	REFERRING TO LIST OF DRUM PRICE ASS'Y	
D0030	97SA324400	DRUM M/T AS	E20XL-25	K30,K50
D0030	97SA327100	DRUM M/T AS	DMVDMTO4M	K30,K50
D0040	7001260711	SCREW MACHINE	PAN 2.6X7 MFZN	K30,K50
D0050	97SA320400	EARTH GROUND AS	T-DRUM	K30,K50
D0060	97S2303600	HOLDER MAIN	POM(KEPITAL F20)	K30,K50
D0070	97S2303700	HOLDER CAP(A)	POM(2CH)	K30,K50
D0070	97S2303800	HOLDER CAP(B)	POM(4CH)	K30,K50
D0070	97S2303900	HOLDER CAP(C)	POM(6CH)	K30,K50
D0080	97S1401700	BASE DRUM	FM-M(NON-MACHINING, ADC)	K30,K50
D0090	7051300611	SCREW MACHINE	PAN 3X6 SW MFZN	K30,K50
DECK AS				
AM001		DECK AS	REFERRING TO LIST OF DECK TOTAL ASS'Y	
A0100	97SA309700	MAIN BASE AS	K-MECHA	K30,K50
A0200	97S0901400	PLATE CONNECT	SECC T1.0	K30,K50
A0300	97S2701800	RACK F/L	PBT (KP213G30) NATURAL	K30,K50
A0400	97SA310900	S SLANT POLE AS	G,FM,K-MECHA	K30,K50
A0500	97SA311000	T SLANT POLE AS	G,FM,K-MECHA	K30,K50
A0600	97SA308510	L LOADING AS	K30-MECHA	K30,K50
A0700	97SA308600	R LOADING AS	K-MECHA	K30,K50
A0800	97SA308400	LOADING RACK AS	K-MECHA	K30,K50
A0900	97S3101800	WASHER POLY	D3.1XD8XT0.5	K30,K50
A1000	97S8101700	MOTOR CAPSTAN	F2QTB44	K30,K50
A1000	97S8101400	MOTOR CAPSTAN	TIMELAPSE	K30,K50
A1100	97S3102000	SCREW TAPPTITE	TT2 BIN-P 2.6X7 MFZN	K30,K50
A1200	97S3004000	SPG AC HEAD	SUS304WPB D1.2	K30,K50
A1300	97SA311200	AC HEAD AS	HVMZA1900AK(LG,RECORD)	K30,K50
A1400	7391300211	NUT HEX	6N-1-5 MFZN	K30,K50
A1500	97S2604100	LEVER RELAY	ZDC-2	K30,K50
A1600	97S2701400	GEAR CAM	DELIN 500 NATURAL	K30,K50
A1700	97SA310700	PINCH LEVER TOT AS	K-MECHA	K30,K50
A1800	97S3117300	WASHER POLY	D3.6XD8XT0.5	K30,K50
A1900	97SA310400	L/C BRKT TOT AS	K-MECHAK	K30,K50
B1900	97SA414100	L/C BRKT AS	K-MECHA	K30,K50
B1910	97SA409200	L/C MOTOR AS	K-MECHA	K30,K50
B1920	97P6538222	PCB L/C MOTOR	PHENOL T1.6	K30,K50
B1930	97P6271500	CONN WAFER (ANGLE)	00-8283-0711-00000	K30,K50
B1940	5SSF1DKM10	SW CAM	MMS00320ZMBO	K30,K50
B1960	97S2901500	WHEEL WORM	DERLIN 100 NATURAL	K30,K50

LOC.	STOCK NO.	PART NAME	DESCRIPTION	
A2000	7274300611	SCREW TAPPTITE	TT3 RND 3X6 MFZN	K30,K50
A2100	97SA311620	IDLER PLATE AS	K30-MECHA(HI-REW)	K30
A2100	97SA311600	IDLER PLATE AS	K50-MECHA(NORMAL)	K50
A2200	97S3108200	POLYWASHER	D2.6XD6.0XT0.5	K30,K50
A2300	97S2901600	TABLE REEL	F20 BLACK	K30,K50
A2400	97S3903600	POLY SLIDER	D3.1XD6XT0.5	K30,K50
A2500	97SA310800	TENSION BAND AS	K-MECHA	K30,K50
A2600	97S3003500	SPG TENSION	SWPB D0.4	K30,K50
A2700	97SA309300	S SUB BRAKE AS	K-MECHA	K30,K50
A2800	97SA309400	T SUB BRAKE AS	K-MECHA	K30,K50
A2900	97SA309120	MAIN BRAKE AS	K30-MECHA(HI-REW)	K30
A2900	97SA309110	MAIN BRAKE AS	K50-MECHA(NORMAL)	K50
A3100	97S8012900	HEAD FE	HVHFH0004AK(LG)	K30,K50
A3200	97S3102100	SCREW TAPPTITE	TT2 BIN-P 2.6X10 MFZN	K30,K50
A3300	97SA309020	REEL GEAR TOT AS	K30-MECHA(HI-REW)	K30
A3300	97SA309000	REEL GEAR TOT AS	K50-MECHA(NORMAL)	K50
A3400	97S3108200	POLYWASHER	D2.6XD6.0XT0.5	K30,K50
A3500	97S5500400	BELT REEL	CR68	K30,K50
A3600	97S2625500	LEVER REC SAFETY	F20-03 SKY BLUE	K30,K50
A3700	2291129004	OIL LUBRICANT	OA-305P	K30,K50
A3800	2291131304	GREASE	DELUXE 5221G(NAM-YOUNG	K30,K50
AD002	7274301011	SCREW TAPPTITE	TT3RND 3X10MFZN(SCREW FOR ASSEMBLING DRUM)	K30,K50
AF002	7274300611	SCREW TAPPTITE	TT3 RND 3X6 MFZN(SCREW FOR ASSEMBLING F/L)	K30,K50
F/L AS				
AF001	97SA251400	F/L AS	K-MECHA	K30,K50
A5000	97S0902000	PLATE TOP	SECC T1.0	K30,K50
A5100	97S2400900	BRKT F/L R	SECC T1.0	K30,K50
A5200	97SA311400	CST HOLDER AS	K-MECHA	K30,K50
B5200	97SA410100	HOLDER AS	K-MECHA	K30,K50
B5230	97S2605400	LEVER RELEASE	DURACON M90-02 NATURAL	K30,K50
B5240	97S3004700	SPG RELEASE	SUS304WPB D0.23	K30,K50
B5250	97S2605500	LEVER SAFETY R	SUS304CSP T0.5	K30,K50
B5260	97S3101600	WASHER POLY	D6.5XD3.6XT0.5	K30,K50
A5300	97SA311500	LOADING LEVER AS	K-MECHA	K30,K50
B5330	97S3004800	SPG FL LEVER	SWPB D1.0	K30,K50
A5400	97S2602210	LINK PRISM L	PMMA(HI-855M)NATURAL	K30,K50
A5500	97S2602110	LINK PRISM R	PMMA(HI-855M)NATURAL	K30,K50
A5700	97S1800400	OPENER DOOR	DURACON M90-02 BLACK	K30,K50
A5800	7278260611	SCREW TAPPTITE	TT3 WAS 2.6X6 MFZN	K30,K50
A5900	7278300611	SCREW TAPPTITE	TT3 WAS 3X6 MFZN	K30,K50
HEAD CLEANER AS				
AC001	97SA381500	HEAD CLEANER AS	FM,K-MECHA	K30,K50

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