

SECTION 1

GENERAL DESCRIPTIONS

1-1. SERVICE INFORMATION

<A> MECHANISM SERVICE POSITION

When servicing the K-Mechanism, the Mechanism can easily be fixed by standing the Mechanism up in the Main Frame as shown below to check easily.

In this position, the following services are possible.

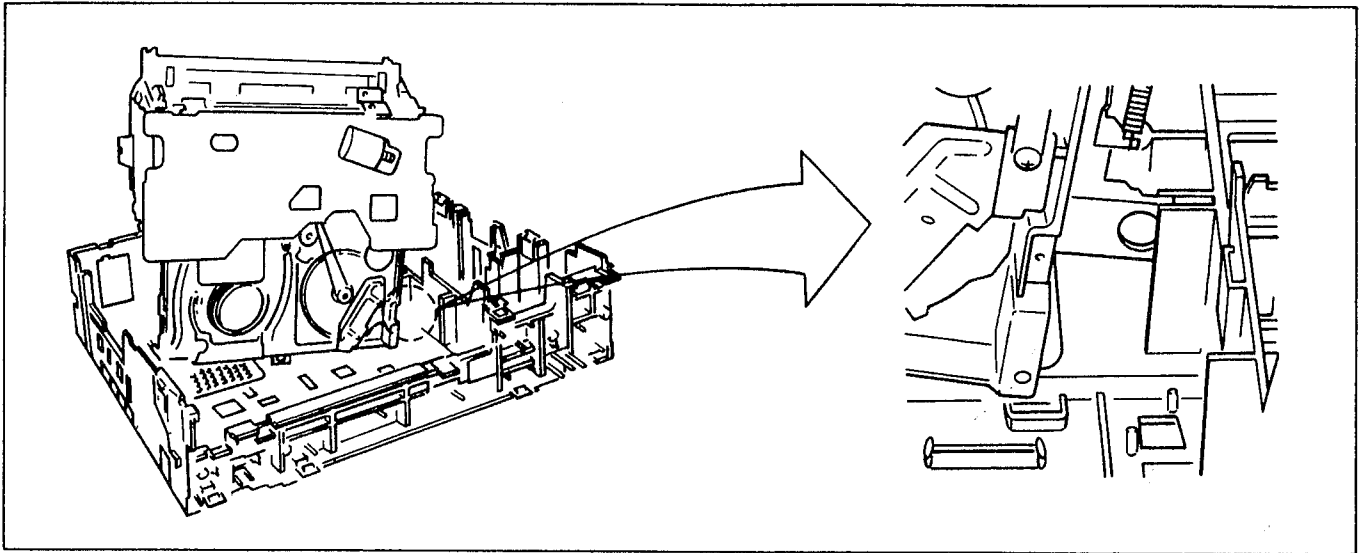


Fig. S1

<A-1> CHECKING OF GEAR PHASE ALIGNMENT CONDITION

- 1) Remove the Mechanism Connection C.B.A.
- 2) Check gear phase alignment condition of Mechanism described on the bottom side of Frame.

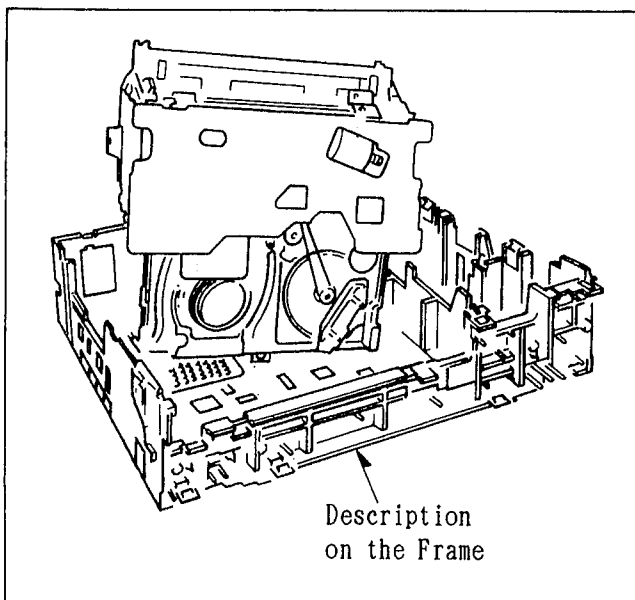


Fig. S2

<A-2> CHECKING OF LOADING / UNLOADING OPERATION

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

(1) HAND OPERATION

- 1) Remove the Mechanism Connection C.B.A.
- 2) Turn the Worm Gear or the Worm Wheel Gear (Remove the Loading Motor Unit) manually.

(2) BATTERY OPERATION

- 1) Remove the Mechanism Connection C.B.A.
- 2) Connect the Battery (Manganese-Type R6 (AA) 3pcs./+4.5V) to the Loading Motor terminals.

(3) SERVICE INFORMATION DISPLAY OPERATION

- 1) Set the Service Information Display mode. (Press the "FF", "REW" and "EJECT" buttons simultaneously.)
- 2) Press the "FF", "REW" and "EJECT" buttons 7 times to set the Service Mode 7. (The end of display on the Display becomes "---".)

3) In the above Service Information Display mode, the Loading Motor rotates for loading operation when the "PLAY" button is pressed. The Loading Motor rotates for unloading operation when the "STOP" button is pressed.

Remark:

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

<A-3> CHECKING OF REEL GEARS OPERATION

- 1) Remove the Mechanism Connection C.B.A.
- 2) Move the mechanism to "PLAY" position by loading operation. (Refer to <A-2>)
- 3) Turn the "Rotor Unit" to check movement of reel gears.

** TUNER & TV DEMODU C B A. s SERVICE POSITION**

Use the Extention Cables when checking.

PART NO.	PART NAME	PCS.	CONNECTION
VFK0944	5-PIN WIRE CABLE	3	PP7002-PS703 PP7003-PS702 PP7004-PS701
VFK0890	6-PIN WIRE CABLE	1	PP7001-PS704

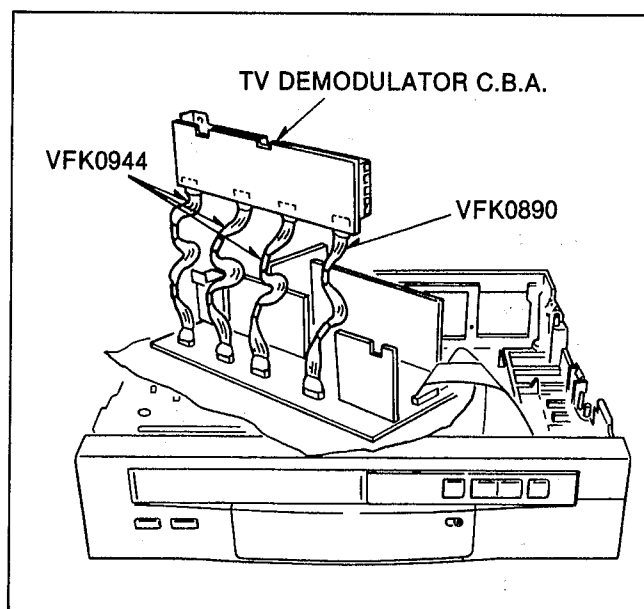


Fig. S3

<C> CYLINDER UNIT REPLACEMENT

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

- 1) Remove the Top Panel.
- 2) Remove the 3 screws of the Cylinder Unit with a magnetized screw driver through the holes on the Bottom Plate as shown in Fig. S4.

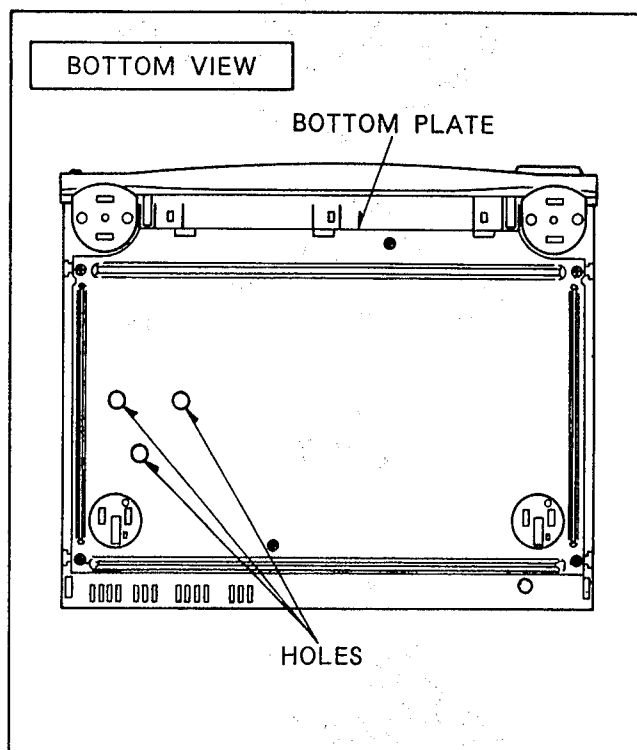


Fig. S4

<D> CAPSTAN STATOR UNIT ASSEMBLY

When replacing the Capstan Stator Unit, the CENTRE FIXING TOOL (VFK0851) must be used to fix the centre of Capstan Stator Unit.

Method:

- 1) Place the Capstan Stator Unit into position.
- 2) Loosely tighten the 3 screws.
- 3) Insert the CENTRE FIXING TOOL (VFK0851) as shown in Fig. S5.
- 4) Tighten the 3 screws.
- 5) Remove the CENTRE FIXING TOOL.

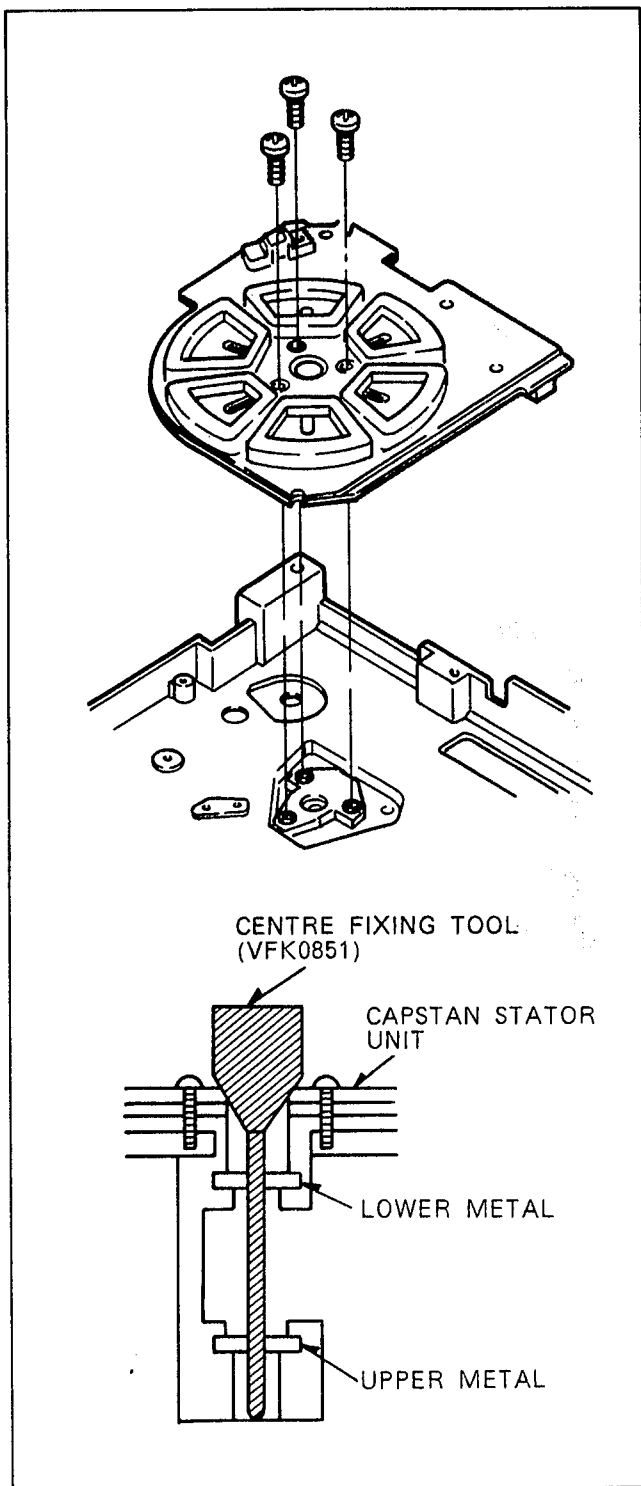


Fig. S5

<E> EJECT OPERATION

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

Note:

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

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

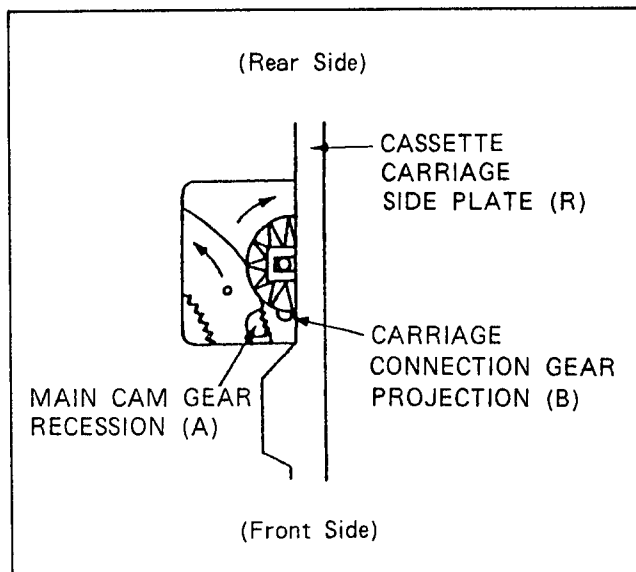


Fig. S6 Top View of Eject Operation

<F> TAKE-UP PHOTO SENSOR OPERATION

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

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

<G> POWER TRANSISTOR SERVICING

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

<H> CASSETTE TAPE REMOVAL

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

(1) HAND OPERATION

- 1) Remove the bottom plate.
- 2) Turn the Worm Gear to "A" arrow mark direction manually as shown in Fig.S7, moving the Loading Post to the unloaded position.
- 3) Turn the Capstan clockwise to take up the tape.
- 4) Turn the Worm Gear again to eject the cassette.

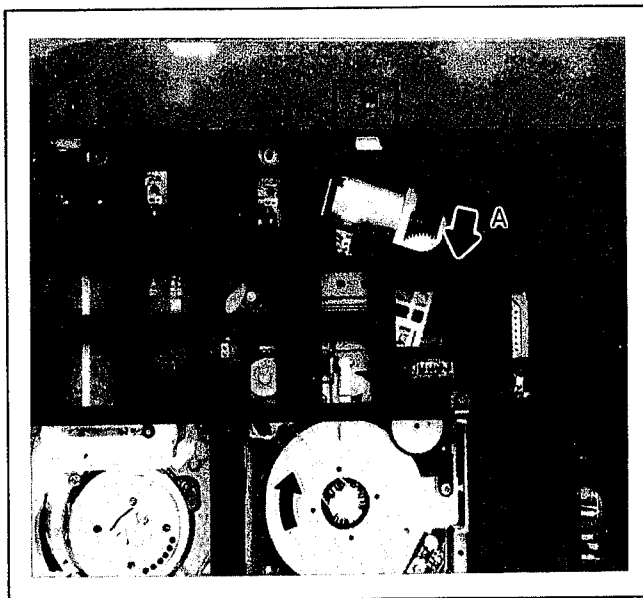


Fig. S7

(2) BATTERY OPERATION

- 1) Connect the battery (Manganese-Type R6 (AA) 3pcs./+4.5V) to P1503 as shown in Fig.S8, S9.
- 2) After moving the Loading Post to the unloaded position, disconnect the battery to stop the motor.
- 3) Turn the Capstan to clockwise to take up the tape.
- 4) Reconnect the battery to eject the cassette.

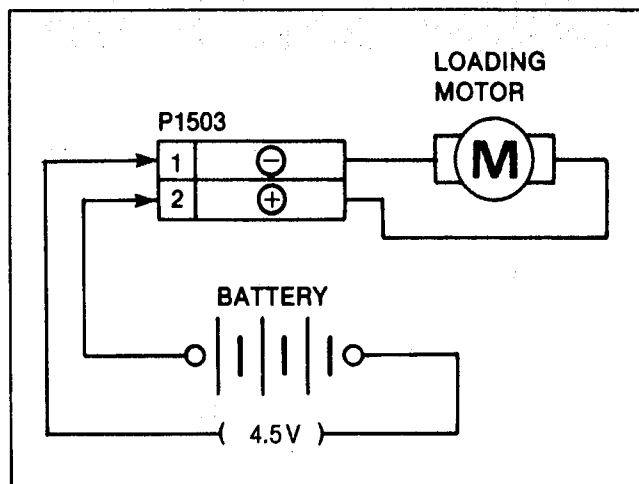


Fig. S8

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

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

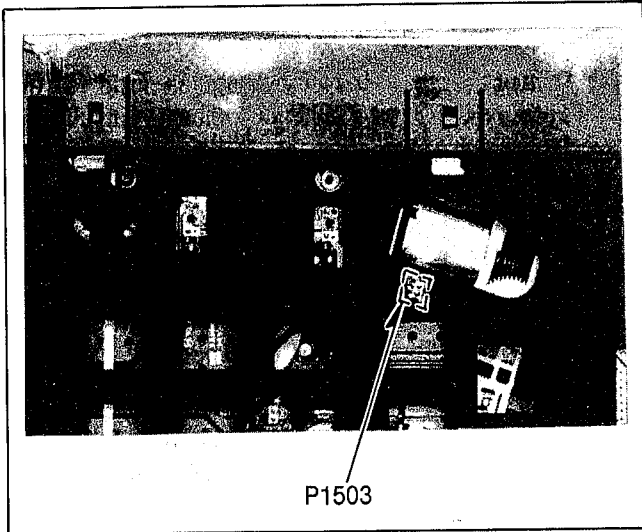


Fig. S9.

<I> FLAT CARD CABLE INSTLLATION

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

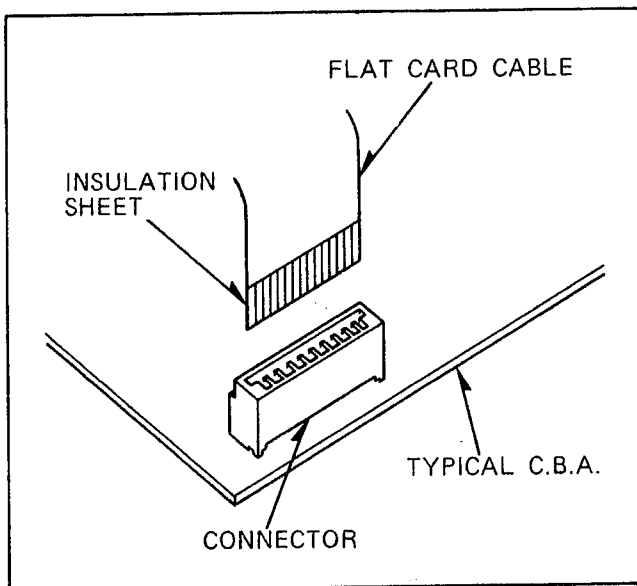


Fig. S10

<J> CHANNEL MEMORY IC INITIALIZATION

When replacing the channel memory IC7503(Part No. :M6M80011AP) its IC should be initialized.

Method:

- 1) Press the CH UP/DOWN button so that the channel indicator indicates "3"
- 2) Connect a jumper wire twice to Pin 54 and Pin 34 of IC7501.
- 3) Channel indication changes from "3" to "1"

Note:

- 1) It should be performed before tuning.
- 2) Do not turn off the power source during initialization or 1 second after.