Service Manual

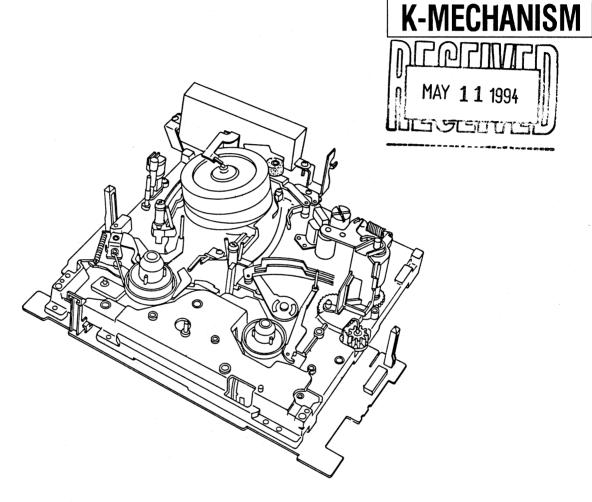
Sec. 1 General Information

Sec. 2 Maintenance Procedures

Sec. 3 Mechanical Adjustment Procedur

Sec. 4 Assembly & Phase Adjustment Procedure

Video Cassette Recorder **SVHS**/**VHS**



IMPORTANT

The K-MECHANISM chassis are built in several Panasonic SVHS/VHS Video Cassette Recorder.

Thus, Properly file this service manual with the service manual of the relative video cassette recorder.

Panasonic.

SECTION 4 ASSEMBLY & PHASE ADJUSTMENT PROCEDURE

4-1. Assembly Procedures of Mechanism

The gear phase alignment is performed in the cassette down position and is crucial for the K-Mechanism to operate correctly.

- Top view of gear phase alignment marks.
 There are alignment marks on the pinch cam gear and sub cam gear. there is one alignment mark on the carriage gear.
- 2. Bottom view of gear phase alignment marks. There are alignment marks on take-up loading gear and supply loading gear. There is an additional mark on the take-up loading gear that aligns with the mark on the main lever. There are alignment marks on the main cam gear and the sub cam gear. The mode switch gear mark aligns with a notch in the mode switch frame.

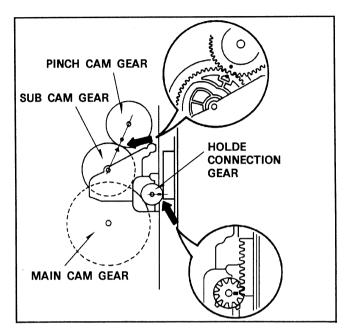


Fig.M33

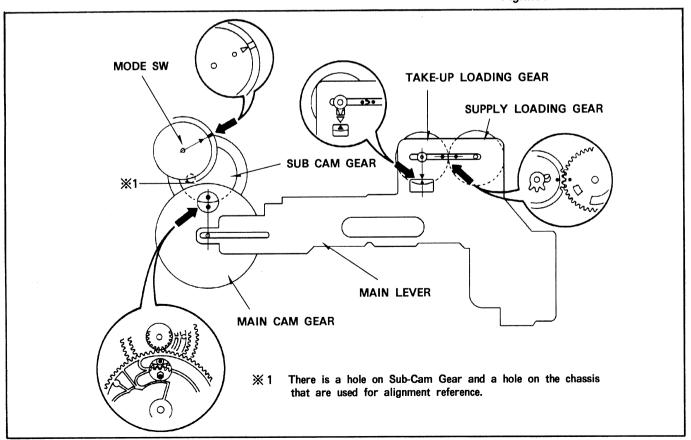


Fig.M34

4-2. Assembly of parts on the Top Chassis

- 1. Install the Pinch Cam Gear onto shaft (A) and the P5 Arm Unit onto shaft (B).
- Install the P5 Stopper Base with the cut washer(D) and screw (C).
- 3. Install the P5 Stopper on the P5 Stopper Base with latch (E).

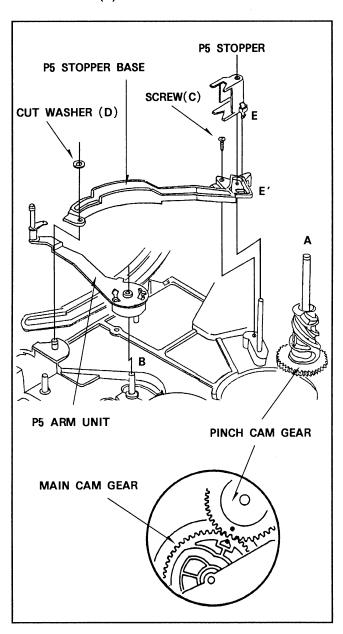


Fig.M35

4-3. Assembly of parts on the Bottom Chassis

- 1. Install the Idler Arm Unit onto shaft (F).
- 2. Install the Take-up and Supply Reel Gears onto shaft (G) and (H).
- 3. Install the Idler Regulator Level onto shaft (I) then install the Direct Lever.
- 4. Install the Center Clutch onto shaft (F) with the cut washer.

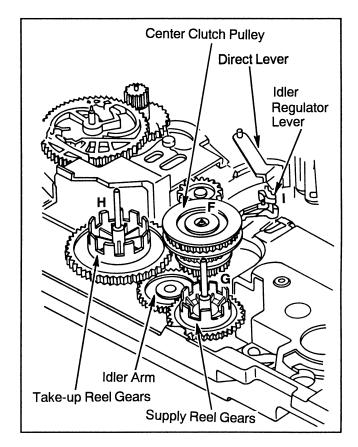


Fig.M36

4-4. Assembly of Main Cam Gear and Sub Cam Gear

- Install the Sub Cam Gear on to shaft (J) so that the chassis hole aligns with hole in the Sub Cam Gear.
- 2. Rotate the Holder Connection Gear to position of arrow mark as shown in Fig.M37.
- Install the Main Cam Gear onto shaft (K) so that the hole of the Main Cam Gear aligns with the hole in the Sub Cam Gear. Also insert the boss of the Take-up Tension Regulator Arm into the slot on the Main Cam Gear.

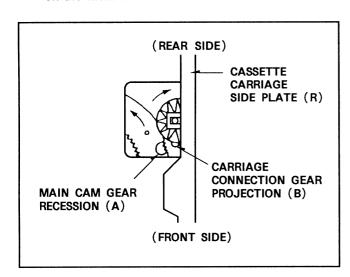


Fig.M37

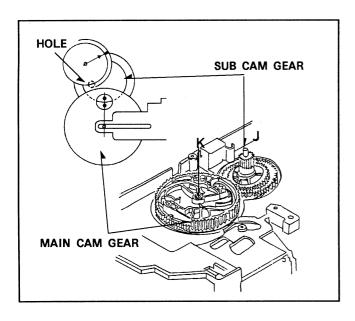


Fig.M38

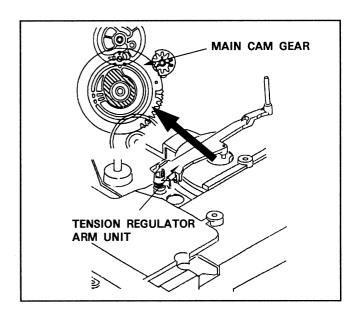


Fig.M39

4-5. Assembly of Mode Switch

- 1. Align a triangle mark on the Mode Switch Gear with the notch on the Mode Switch frame.
- 2. Confirm the Main and Sub Cam Gears aligned properly then install the Mode Switch with screw (L).

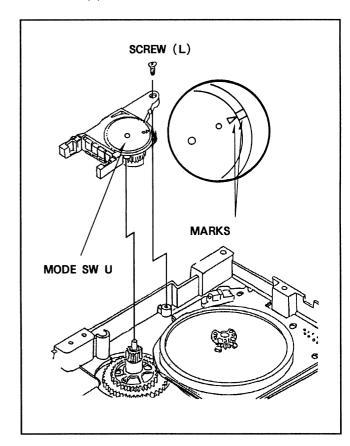


Fig.M40

4-6. Assembly of Take-up and Supply Loading Gears.

- 1. Install the Supply Loading Gear onto the shaft (S).
- Install the Take-up Loading Gear onto the shaft
 (T) so that hole on the Take-up Loading Gear align with the hole on the Supply Loading Gear.
- 3. Install the Supply Loading Arm onto shaft of the Supply Inclined Base with washer.
- 4. Insert the Take-up Loading Arm onto shaft of the Take-up Inclined Base with washer.

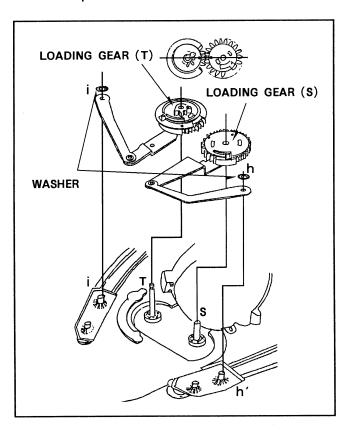


Fig.M41

4-7. Assembly of Main Lever

- Install the Main Lever Arm checking that the boss of arms and shafts are in correct position and mark on the Main Lever Arm is aligned with mark on the Take-up Loading Gear.
- 2. Insert the 2 cut washer as shown in Fig.M42.

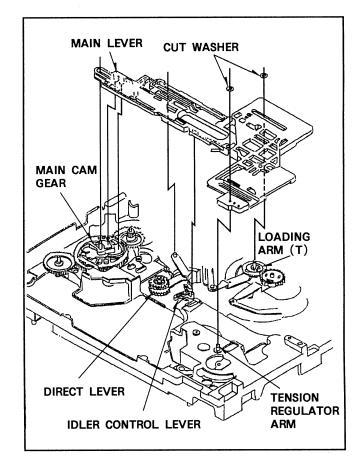


Fig.M42

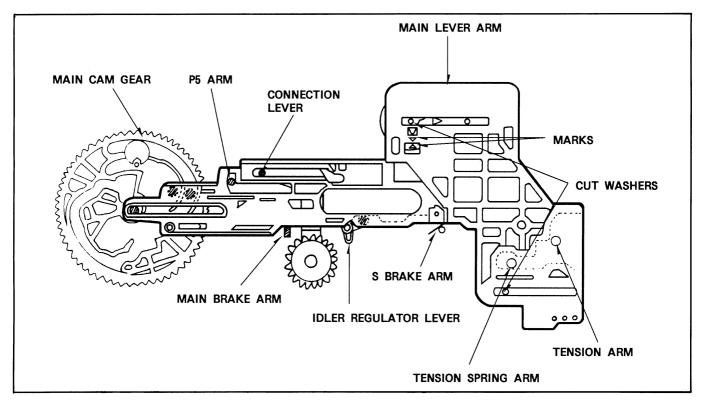


Fig.M43

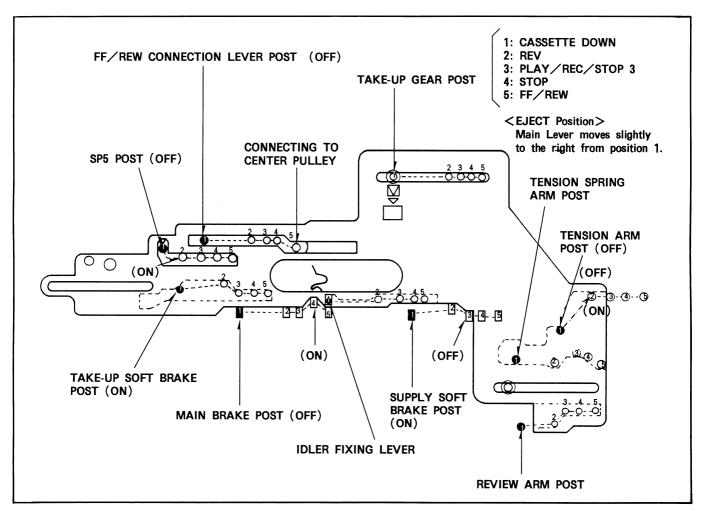


Fig.M44

4-8. Reinstall of the Cassette Compartment

 Push the locking tabs to direction as shown in Fig.M45 and remove the Top Plate.

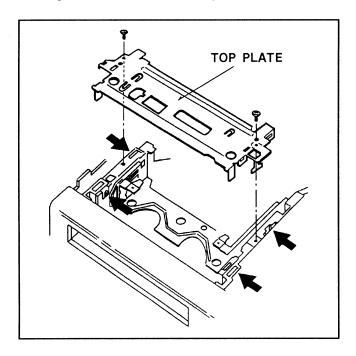


Fig.M45

2. Lift up the Cassette Holder Unit as shown in Fig.M46.

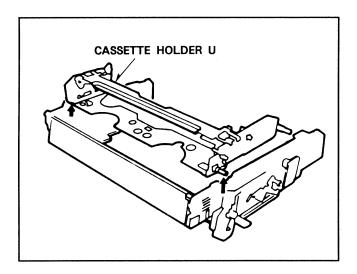


Fig.M46

3. Press the Wiper Arm to direction indicated by arrow mark so that the Wiper Arm comes to cassette down position completely as shown in Fig.M48. Confirm a triangle mark on the Wiper Arm aligns with the mark on the Rack (B) Unit.

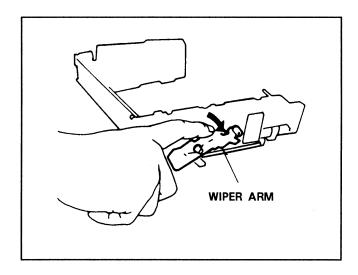


Fig.M47

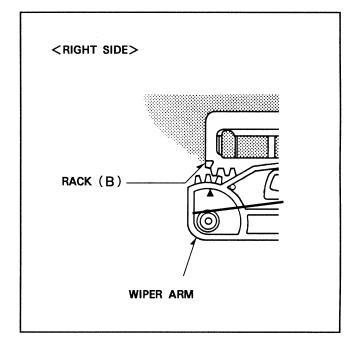


Fig.M48

 Install the cassette compartment (without cassette holder) to the mechanical chassis so that mark on the Holder Connection Gear should line up with first tooth of the Rack Gear as shown in Fig.M49.

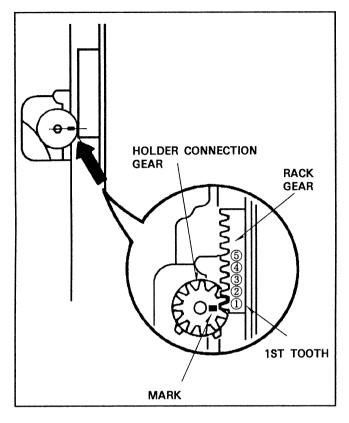


Fig.M49

- 5. Tighten 4 screws as shown in Fig.M50.
- Manually move the loading mechanism toward the EJECT position by turn the Loading Motor and stop just before completion, so that the Wiper Arm straight up.
- 7. Install the Cassette Holder Unit in the Cassette Compartment Base as shown in Fig.M51.
- 8. Install the Top Plate on the Cassette Compartment Base.
- Manually confirm that front loading and main loading run smoothly.

<NOTE>

For proper front loading, the guide pin on the opener lever should follow the upper track of the right side panel as shown in Fig.M52.

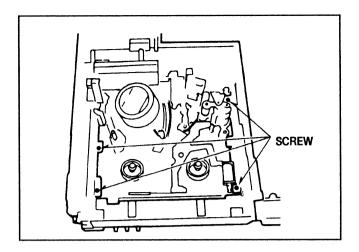


Fig.M50

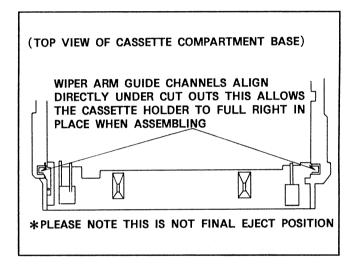


Fig.M51

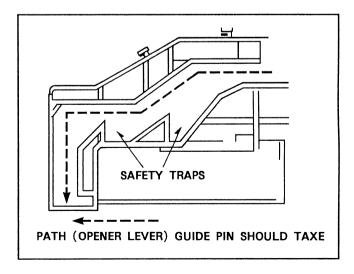


Fig.M52