

**SONY**

Hi-Fi Products  
**Service Bulletin**

Sony Service Company - Technical Services  
A Division of Sony Corporation of America  
Sony Drive, Park Ridge, New Jersey 07656

**Model:** HCD-H1500

**No. 302**

**Subject:** High Wow and Flutter

**Date:** October 30, 1992

**Symptom:**  
(53)

A twisted capstan belt causes high wow and flutter. The problem is caused by the flywheel assembly, the lever (FR Arm) assembly and the motor pulley which are not properly aligned.

**Solution:**

Install the following service kit on units equipped with the TCM-170 tape transport mechanism.

DESCRIPTION	PART NUMBER
SERVICE KIT	X-3365-725-1

**Procedure:**

- Remove the mount base (thrust plate) and the capstan belt (fig. 1).
- Release the two hooks indicated by the arrows, and remove the leaf switch board. Be careful not to cut the lead wire of the plunger (fig. 2).
- Lift up the flywheel by hand and remove the lever (FR arm) assembly (fig. 3).
- Lift up the slider (brake plate) in the arrowed direction (fig. 4).
- Stick the spacer (FR arm) to the shaded area of the chassis after cleaning the area with alcohol (fig. 5).
- Reposition the slider (brake plate) in the arrowed direction. Make sure that the twisted coil spring is not out of position (fig. 6).
- Install the new lever (FR arm) assembly while lifting up the flywheel assembly by hand. Be sure to position the A portion of the lever (FR arm) assembly beside the cam gear (fig. 7).
- Install the washer (fig. 8).
- Reinstall the leaf switch board. Route the lead wire of the plunger so that it does not touch the moving part (fig. 9).
- Install the new capstan belt temporarily (fig. 10).
- Remove the capstan motor pulley. Do not bend the capstan motor shaft (fig. 11).
- Temporarily install the new motor pulley on the same level with the motor shaft (fig. 12).
- Reinstall the mount base (thrust plate) assembly (fig. 13).
- Place the capstan belt on the capstan motor pulley. Do not twist the capstan belt (fig. 14).
- Align the height of the flywheel, the lever (FR arm) assembly and the motor pulley until the three parts are parallel (fig. 15).
- Press down the washer onto the capstan shaft. Clean the capstan shaft with alcohol (fig. 16).

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Reference: SEC S/B HF-02592

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CSA-131092-7

CSA-13 Compact System

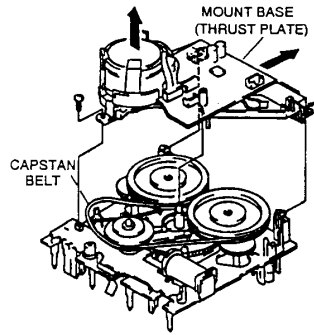


Fig. 1

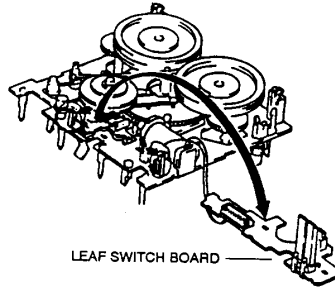


Fig. 2

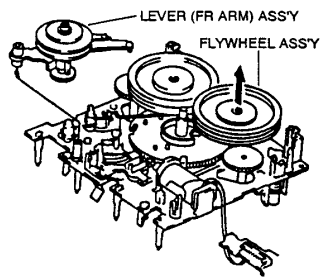


Fig. 3

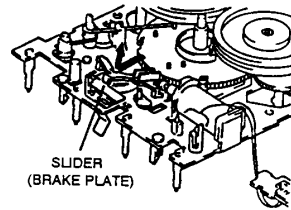


Fig. 4

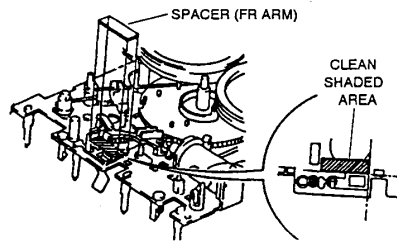


Fig. 5

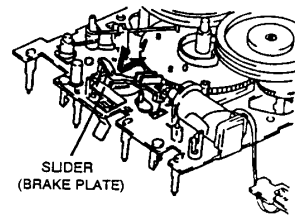


Fig. 6

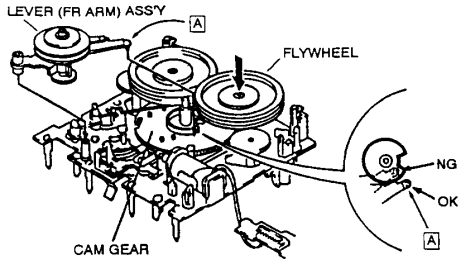


Fig. 7

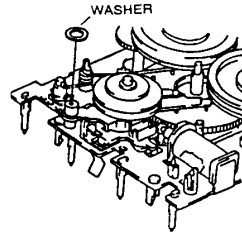


Fig. 8

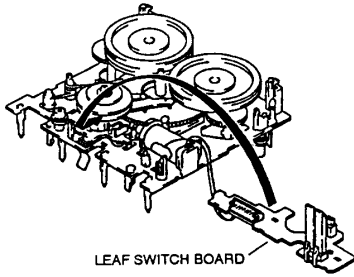


Fig. 9

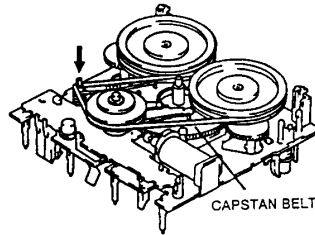


Fig. 10

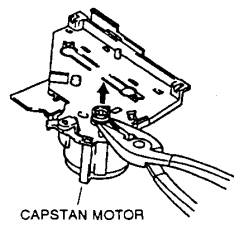


Fig. 11

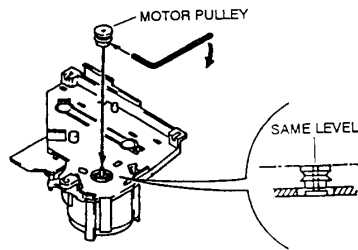


Fig. 12

(continued)

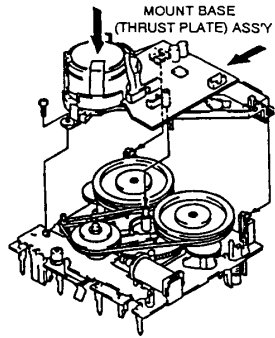


Fig. 13

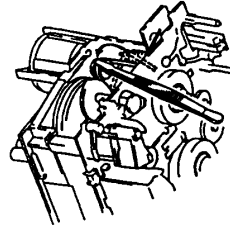


Fig. 14

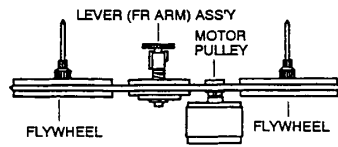


Fig. 15

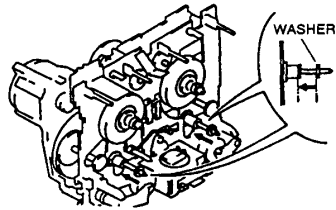


Fig. 16