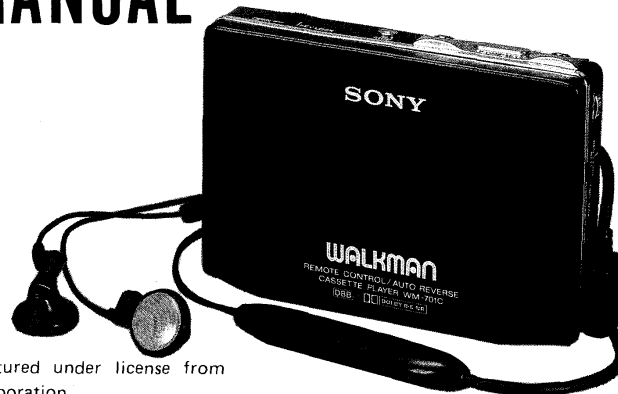



# WM-701C

## SERVICE MANUAL

US Model  
AEP Model  
UK Model  
E Model



Dolby noise reduction manufactured under license from  
Dolby Laboratories Licensing Corporation.  
"DOLBY" and the double-D symbol  are trademarks of  
Dolby Laboratories Licensing Corporation.

### SPECIFICATIONS

Frequency response (DOLBY NR off)  
20—18,000 Hz  
Output  
Headphones (PHONES/REMOTE jack) load impedance 8—300Ω  
Power output  
5 mW+5 mW at DC operation, 16Ω  
Power requirements  
1.5 V DC  
Rechargeable battery  
One size AA (R6) battery  
DC In 1.5 V jack accepts:  
Battery life

Battery	Playback hours
Rechargeable NC-6WM fully charged	Approx. 2.5 hours
Sony SUM-3 (NS)	Approx. 1.5 hours
Sony alkaline AM3 (N)	Approx. 4.5 hours
Rechargeable NC-6WM with Sony AM3 (N)	Approx. 6.5 hours

For maximum performance we recommend the use of alkaline batteries.

#### Dimensions

Approx. 104.6 × 71.8 × 18.2 mm (w/h/d)  
not incl. projecting parts and controls  
Approx. 105.6 × 74.2 × 19.8 mm (w/h/d)  
incl. projecting parts and controls

#### Weight

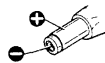
Approx. 150 g incl. rechargeable battery, not incl. other accessories

#### Accessories supplied

- Battery case (1)
- Carrying pouch (1) Battery charger (1)
- Rechargeable battery (1)
- Stereo headphones with the remote controlled device (open-air type, 1)
- Plug adaptor (1)
- Clip (1)

Design and specifications subject to change without notice.

Note: Use only the recommended an AC power adaptor or a car battery cord manufactured by Sony. Polarity of the plug of other manufacturers may be different.



Polarity of the Sony plug

Model Name Using Similar Mechanism	New Mechanism
Tape Transport Mechanism Type	MT-WM701C-17

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# CASSETTE PLAYER SONY®

Apple Inc., et al.  
February 1992

# SECTION 1

## SERVICING NOTE

This set detects reel rotation by PH701 (photo sensor). Reel rotation cannot be detected when the system control board is removed, because PH701 is mounted on the system control board. As a result, the auto-off circuit and tape end detection will misoperate. And, up and down of head and power supply of playback circuit cannot operate when the system control board is removed. (S702 (play switch) is mounted on the system control board. (S702 is linked to on and off of the plunger solenoid.) Therefore, operation check of the mechanism deck and voltage check can be performed by the method shown below.

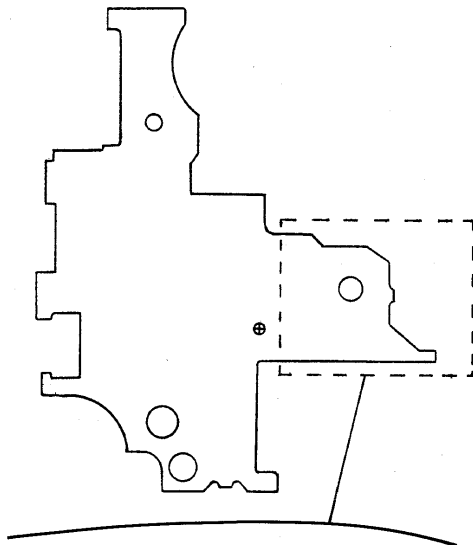
### FF/REW mode

- 1) Apply the square wave signal to the PH701.
- 2) Press the ►► or ►► key.

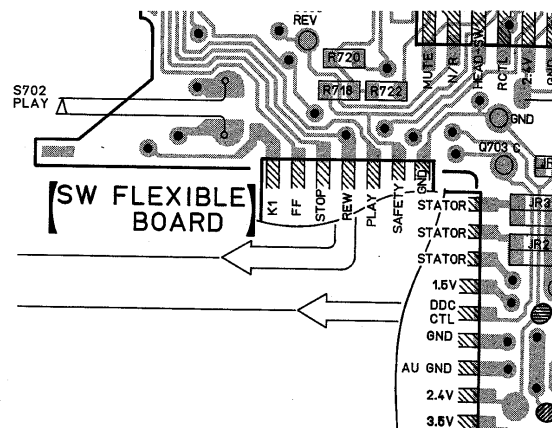
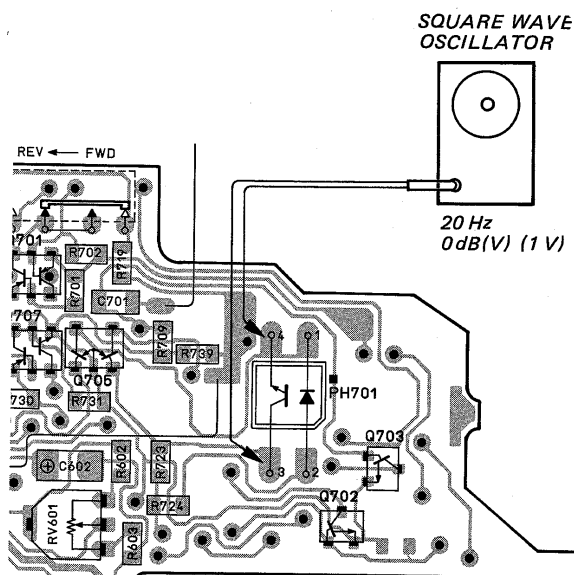
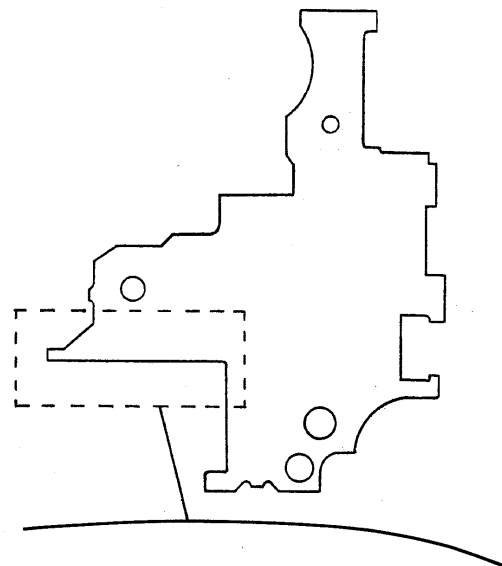
### PLAY mode

- 1) Apply the square wave signal to the PH701.
- 2) Press the ► key.
- 3) Turn on S702 a few seconds later.

— System Control Board (side A) —



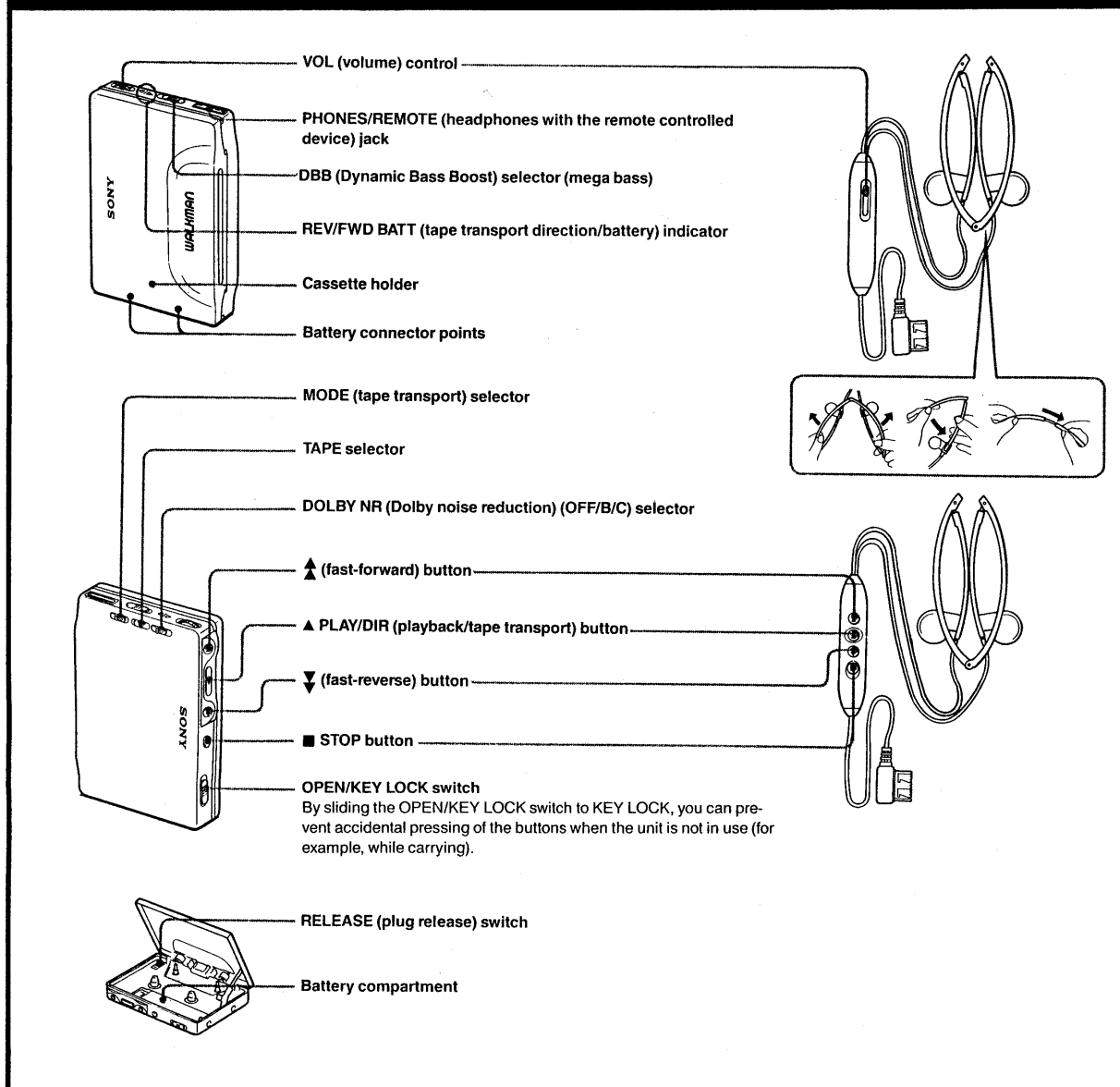
— System Control Board (side B) —



## SECTION 2 GENERAL

### 2-1. LOCATION AND FUNCTION OF CONTROLS

#### Parts Identification



#### Notes on chip component replacement

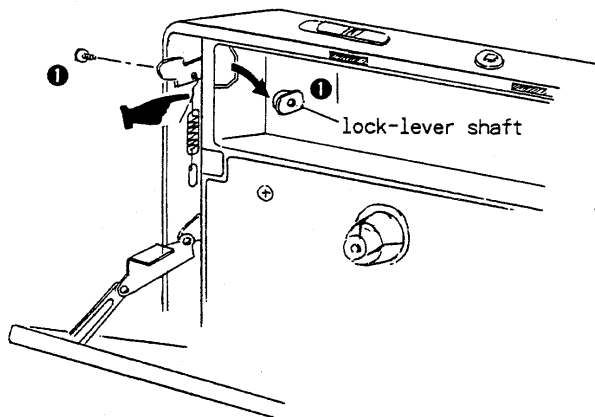
- Never reuse a disconnected chip component.  
Notice that the minus side of a tantalum capacitor may be damaged by heat.

#### Flexible Circuit Board Repairing

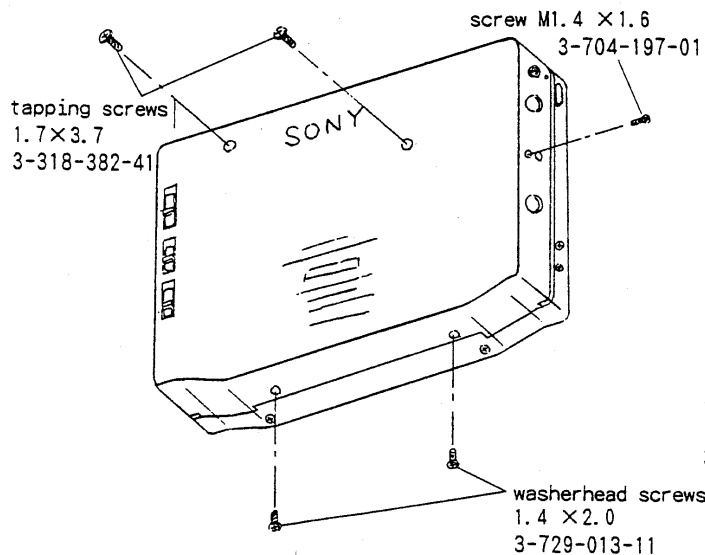
- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

## 2-2. Disassembly

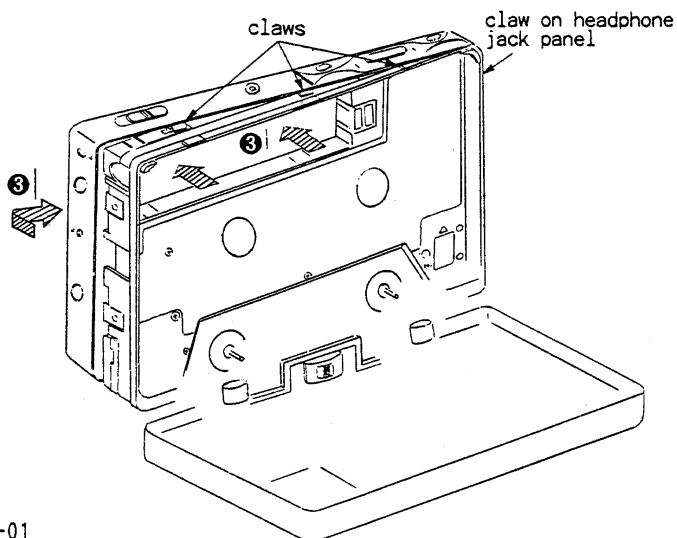
① Open cassette holder and remove tension spring from lock lever with a pair of tweezers. Then remove screw which fastens lock-lever shaft, and push the shaft off into battery chamber with a precision screwdriver.



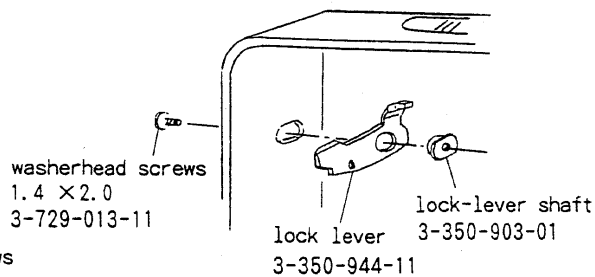
② Remove 5 screws fixing case.



③ Push the bottom of battery chamber (case assy) as shown in the figure so that case comes off from main unit gradually pivoting at headphone jack side. After the three claws on the key switch side of case are released, slide and remove case in the direction of headphone jack (not to break the other claw on headphone-jack panel.)

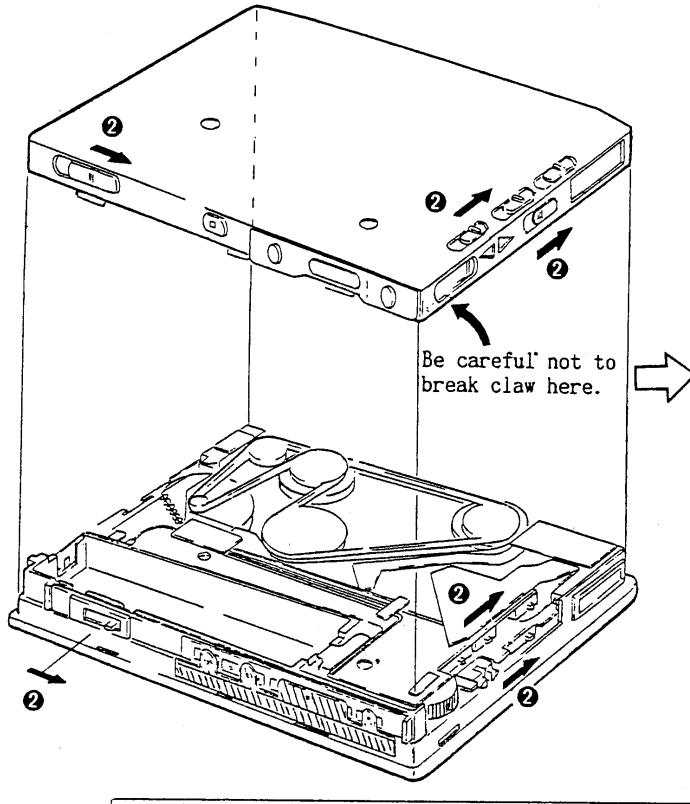


④ While disassembling lock lever will come off, so that lock lever and shaft had better be restored just after case is removed, paying attention to the direction of lock-lever shaft.

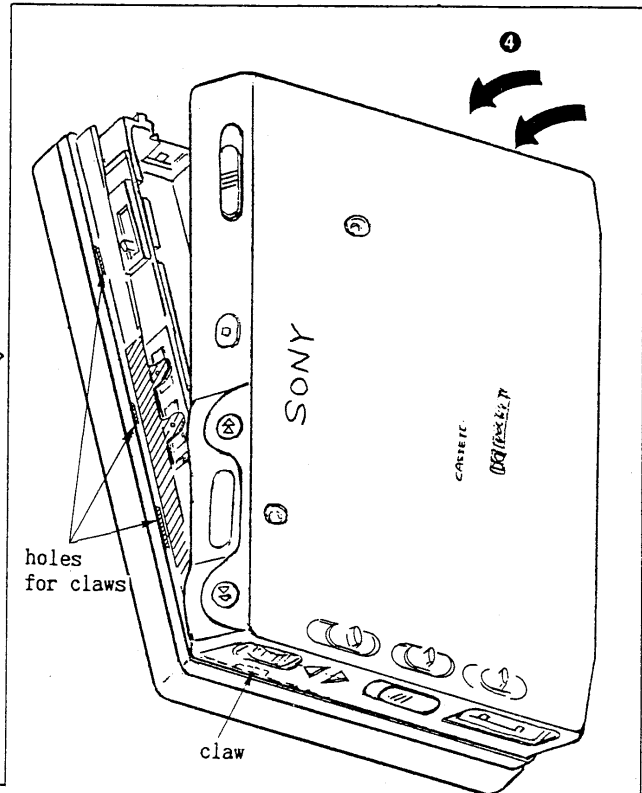


### 2-3. Reassembly

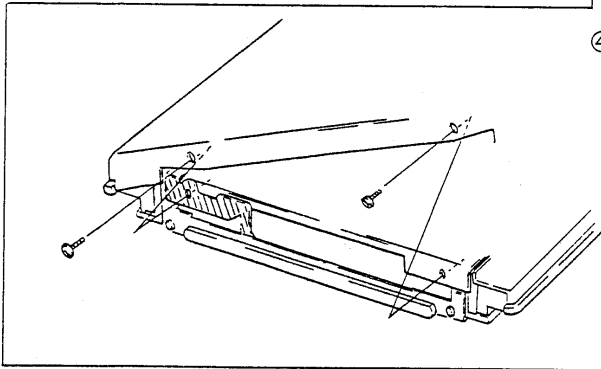
- ①Assure that lock lever is fitted properly. (Refer to the figure for disassembly.)
- ②Set all switches on main unit and knobs on case in the positions as shown by arrows ②.



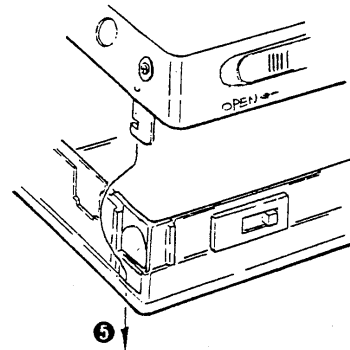
- ③Put the headphone-jack-side edge of case onto the proper portion of main unit, taking care not to break claw on the edge of headphone jack panel and holding battery sheet not to be caught in between case and unit.



- ④Shut case in the direction of arrows ④ with the greatest care at both sides (hatched portion) not to bend the transparent sheet of key switches and head flexible board on the opposite side, inserting three claws into holes.



- ⑤Inserting lock lever into hole as shown by ⑤ close case exactly.
- ⑥Check that every slide switch can move smoothly.
- ⑦Finally restore tension spring. If battery sheet is caught in behind unit, release it before fastening screws.



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