

## Radio Cassette Player

## WM-FX20

## Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

## Owner's Record

The model number is located on the bottom and the serial number is located inside the cassette holder. Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. WM-FX20

Serial No.

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## Specifications

<b>Radio section</b>	
Frequency range	FM: 87.5 - 108 MHz AM: 530 - 1,710 kHz (10 kHz step)
Antennas	FM: Headphone cord antenna AM: Built-in ferrite bar antenna
<b>Tape player section</b>	
Frequency response	40 - 15,000 Hz
Power output	10 mW + 10 mW 260 at DC operation
Headphones (stereo minjack) load impedance	8 - 300Ω
<b>Power requirements</b>	
	Two R6 (size AA) batteries DC IN 3 V jack accepts Optional Sony EBP-500B battery case for use with R20 (size D) batteries Optional Sony AC-D2M power adaptor for use on 120 V AC, 60 Hz Optional Sony DCC-70 car battery cord for use with 12 V car battery
<b>Battery life</b>	Approx. 9 hours on tape playback and approx. 36 hours on FM reception, using Sony alkaline batteries (AA) (R6)
<b>Dimensions</b>	Approx. 92 × 126 × 40.5 mm (w/h/d) not incl. projecting parts and controls
<b>Weight</b>	Approx. 278 g incl. batteries and belt clip
<b>Accessories supplied</b>	Headphones (1) Belt clip (1) Battery tube (1)

Design and specifications subject to change without notice.

## Optional accessories

AC power adaptor AC-D2M  
Battery case EBP-500B  
Car battery cord DCC-70

Your dealer may not handle some of the above listed optional accessories. Please ask the dealer for detailed information about the optional accessories available in your country.

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



## Precautions

## Handling your Walkman

- Operate the unit on 3 V DC. For AC operation and car battery operation, use accessories recommended for the unit. Do not use any other type.
- Avoid exposure to temperature extremes, direct sunlight, moisture, sand, dust or mechanical shock. Never leave the unit in a car parked in the sun.
- If the unit has not been used for a long time, set it in playback mode for a few minutes before inserting a cassette.

## Tips on headphone listening

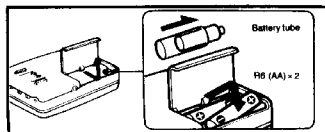
- Do not listen with headphones while driving, cycling, etc.
- Listen at a moderate volume to avoid damaging your ears and to avoid disturbing those close to you.

## Note on cassettes longer than 90 minutes

The use of cassettes longer than 90 minutes is not recommended except for long continuous playback.

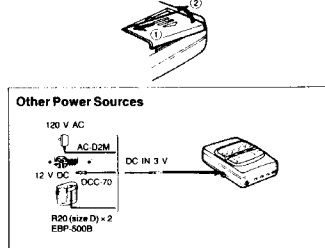
If you have any question or problem concerning your unit that is not covered in this manual, please consult your nearest Sony dealer.

## Installing Batteries

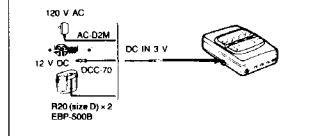


## How to attach the battery compartment lid

If the battery compartment lid is detached by an accidental drop, excessive force etc., attach it as illustrated in the numbered order.



## Other Power Sources



## Notes on batteries

- Remove the batteries when you will not use the unit for a long time to prevent damage from battery leakage and corrosion.
- The internal batteries are disconnected when you plug a cord into DC IN 3 V.
- When the batteries are run down, the BATT indicator glows faintly and the sound becomes unstable. Try a new set of batteries in this case.
- Replace the batteries within 15 minutes.
- If 15 minutes have passed without batteries, all the preset current time, and alarm time are canceled.
- Do not remove the batteries for 15 minutes after having replaced.
- Insert one battery into the supplied tube to avoid causing a short circuit.

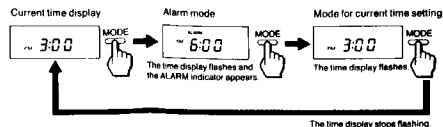
## Clock Operation

## How to Use the MODE Button

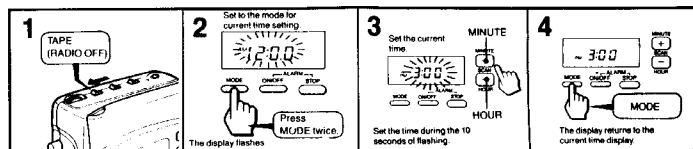
You can change the operation mode in sequence by pressing the MODE button.

The alarm mode display and the display of the mode for current time setting will automatically return to the current time display after about 10 seconds.

## Set the FUNCTION selector to TAPE (RADIO OFF).

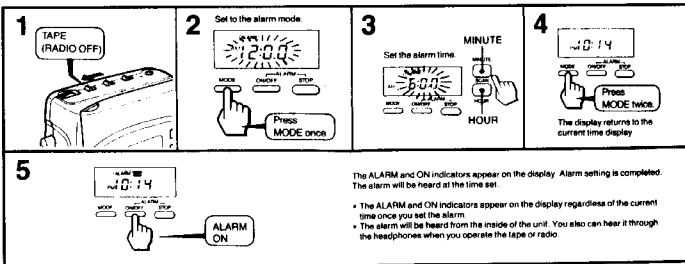


## Setting the Current Time



- When you keep pressing the HOUR and MINUTE buttons, the digits advance in sequence.
- The hour display does not advance even when the minute display returns to "00" after "59".

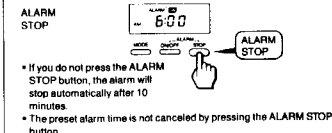
- Replace the batteries within 15 minutes, or the time you set will be canceled.



The ALARM and ON indicators appear on the display. Alarm setting is completed. The alarm will be heard at the time set.

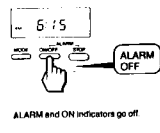
- The ALARM and ON indicators appear on the display regardless of the current time once you set the alarm.
- The alarm will be heard from the inside of the unit. You also can hear it through the headphones when you operate the tape or radio.

## To stop the alarm

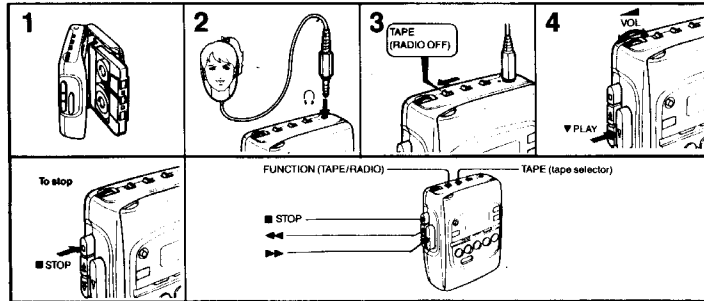


- If you do not press the ALARM STOP button, the alarm will stop automatically after 10 minutes.
- The preset alarm time is not canceled by pressing the ALARM STOP button.

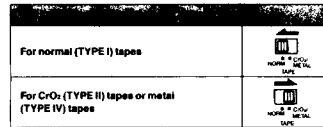
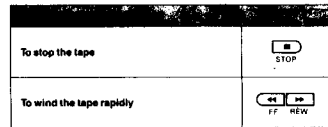
## To cancel the alarm



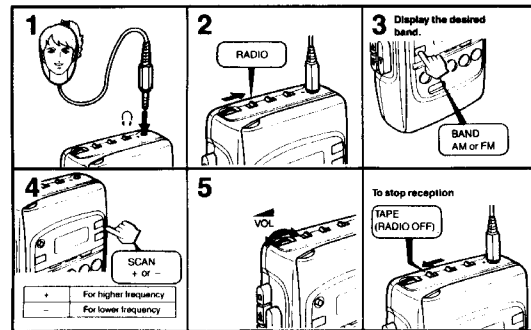
ALARM and ON indicators go off.



**Note on playback**  
Do not open the cassette holder while the tape is running.



## Radio Reception

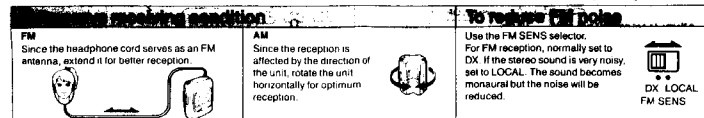


### On operation

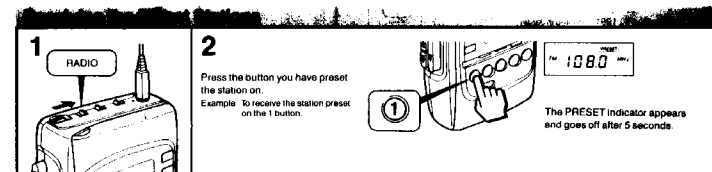
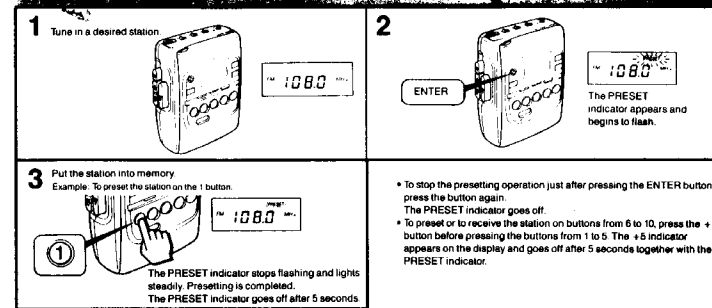
- When you press the SCAN + or - button for more than half a second, the automatic tuning begins, and then stops automatically when a station is received.
- To stop automatic tuning, press the + or - button again.
- When scanning reaches the highest frequency of the band during automatic tuning, the display of the unit will return to the lowest frequency of the band and the unit will continue to scan.
- The STEREO indicator appears on the display when receiving a stereo broadcast.

### Notes

- The automatic tuning function may occasionally miss the best setting for a radio station. If this happens, press the + or - button to adjust the tuning.
- You should remove the cassette tape if it has a metallic cassette shell or labels. Such cassettes may cause interference or difficulty in tuning.



You can preset up to 10 AM and/or FM stations.  
Preset a station while the PRESET indicator flashes for 10 seconds.



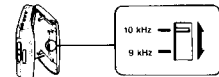
## At the station shown incorrectly

The AM tuning interval is factory preset to 10 kHz in order to match the local frequency allocation system. If you use the receiver in an area where the frequency allocation system is based on 9 kHz interval, change the position of the switch with a thin instrument as the illustration on the right shows.

When you use the unit for the first time or when you have left the unit without batteries for a long time, the display may show incorrect information or the preset stations may not be received correctly. If this happens, set the switch to the other position with a thin instrument, and reset the switch to the original position. All the preset stations, current time, and alarm time are canceled.

### Note

If you change the interval, all preset stations, current time, and alarm time are canceled.



## On Maintenance Using the belt clip

- To enjoy optimum stereo sound, wipe the head, capstans and pinch-rollers with a cotton swab moistened with alcohol after every 10 hours of use.



- Keep the plug of your headphones clean to obtain the optimum stereo sound. Wipe it with a dry, soft cloth.
- Do not use alcohol, benzene or thinner to clean the case.