

Radio Cassette-corder

CFS-1020

PROPERTY OF THE
NATIONAL TECHNICAL DEPT.

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 at the rear and the serial number is located in the battery compartment. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. CFS-1020 Serial No. _____

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

| | | |
|---|---|---|
|  | CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN |  |
| <p>CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p> | | |



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Precautions

Notes on Power Sources

- Use six size D (R20) batteries or, for AC operation (120 V AC only), the supplied AC power cord.
- Remove batteries when not in use to avoid damage from battery leakage.
- Unplug the unit from the wall outlet when it is not to be used for an extended period of time.

Handling the Unit

- Avoid exposure to temperature extremes, direct sunlight, dust, or mechanical shock.
- Should anything fall into the unit, immediately unplug the unit (or remove batteries) and have it checked by qualified personnel before operation again.
- Do not lift the handle when the telescopic antenna is extended.
- When the unit has not been used for a long time, set it in the playback mode for several minutes before inserting a cassette.

Note on Cassette

Use of cassettes longer than 90 minutes is not recommended except for long continuous recording or playback.

If you have any questions or problems concerning your unit, please consult your nearest Sony dealer.

The unit does not operate

- No batteries in battery compartment.
- Batteries installed incorrectly.
- Weak battery. Replace all batteries.
- The AC power cord is not connected.

Cassette cannot be inserted

- Cassette is being inserted improperly.
- PLAY is depressed.

REC cannot be depressed.

- No cassette
- The cassette inserted has tab removed. Use other cassette or cover slot with plastic tape.
- FF/CUE or REW/REVIEW has been depressed.

Tape doesn't move

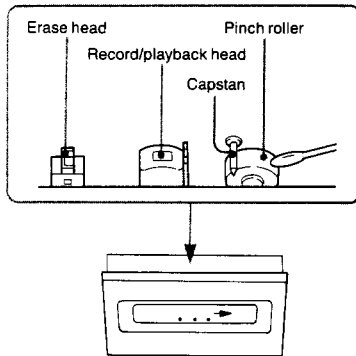
- PAUSE is depressed.

No sound from speakers

- Headphones are plugged in.
- The VOLUME control is turned down completely.
- The FUNCTION selector setting is incorrect.
- Speakers are connected improperly.

Sound drop-outs, loss of high frequencies, or excessive noise.

- Dirty heads. Clean the illustrated portions with a cleaning tip slightly moistened with cleaning fluid or alcohol.
- Demagnetize the heads and all metal parts in the tape path with a commercially available head demagnetizer.



Audio Power Specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 3.2 ohm loads, both channels driven, from 150—10,000 Hz; rated 1.8 watts per channel minimum RMS power, with no more than 10% total harmonic distortion in AC operation.

| | |
|-----------------------|--|
| Tuner frequency range | FM 87.6—108 MHz AM 530—1710 kHz |
| Antennas | FM: Telescopic AM: Built-in ferrite bar |
| Frequency response | 80—8,000 Hz |
| Speakers | Two way: tweeter 2 cm (3/4 in.) dia. woofer 10 cm (4 in.) dia. Impedance: 3.2 ohms Nominal power handling capacity: 2.5 W Maximum power handling capacity: 4 W |
| Power output | Canada Model 2.3 W + 2.3 W (at 10% harmonic distortion) in DC operation |
| Inputs | One external microphone input jack (minijack) sensitivity 0.775 mV for low impedance microphone |
| Outputs | headphones jack (stereo minijack) for 32 ohm impedance headphones Speaker terminals for supplied 3.2 ohm impedance speaker |
| Power requirement | 120 V AC, 60 Hz |
| Power consumption | 9 V DC, six size D (R20) batteries 14 W in AC operation |

Battery life

| Batteries | FM recording |
|-------------------|------------------|
| Sony SUM-1 (NS) | approx. 17 hours |
| Sony AM1 alkaline | approx. 30 hours |

Dimensions

Approx. 584 × 195.5 × 165 mm (w/h/d) (23 × 7³/₄ × 6¹/₂ inches) incl. speakers, projecting parts and controls, not incl. handle

Weight

Approx. 4.4 kg (9 lb 11 oz) incl. speakers, batteries

Accessory supplied

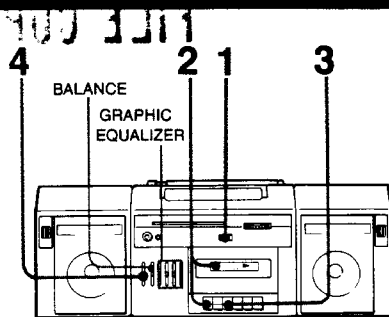
AC power cord (1)

Optional accessories

Sony "MDR" headphones series
Head demagnetizer HE-5C

Design and specifications subject to change without notice.

Tape Playback



1 Set the **FUNCTION** selector.

2 Insert a cassette.

3

4 Adjust **VOLUME**

Adjust **GRAPHIC EQUALIZER**, if necessary.

To stop playback

| | |
|--------------------------------------|----|
| To wind tape rapidly for ◀ direction | ◀◀ |
| To wind tape rapidly for ▶ direction | ▶▶ |
| To stop playback/recording | ■▲ |
| To release ▶▶ or ◀◀ | ■▲ |
| To pause playback/recording | |
| To release pause | |

For private listening

Connect stereo headphones to PHONES jack.

To locate the desired selection (Cue/Review function)

Hold down FF/CUE or REW/REVIEW during play and release to monitor sound. Repeat until desired selection is located.

When the unit is in use

OPR/BATT (operation/battery) indicator lights. Intensity of glow shows battery level.

Adjusting the sound

GRAPHIC EQUALIZER controls

Use to equalize the reproduced sound.

Frequency coverage of each equalizer control

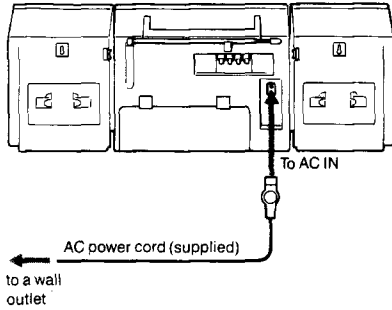
- 100Hz Boosts or cuts the bass.
- 400Hz Adjusts the middle frequency range such as a human voice and the middle frequencies of instrumental music.
- 1kHz Provides more presence of vocals.
- 10kHz Effects general treble. Lower to reduce high frequency noise such as tape hiss.

BALANCE control

Use to adjust stereo imaging, especially when speakers are not symmetrically placed.

Power Sources

House Current

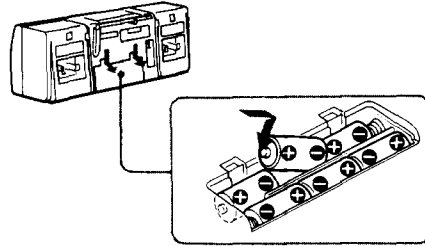


Note

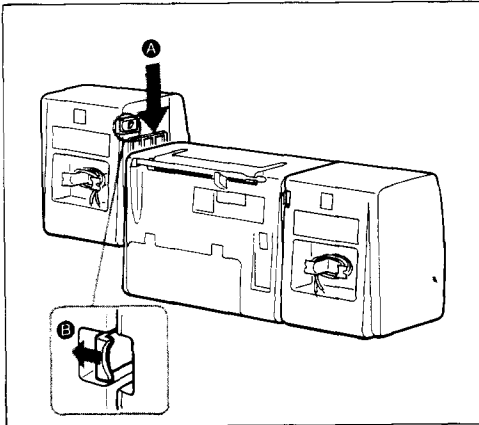
- The unit cannot be operated on batteries when the AC power cord is connected to the unit.
- When the OPR/BATT (operation/battery) indicator glows faintly, replace all the batteries.

Batteries

Insert six size D (R20) batteries.



Connecting Speakers

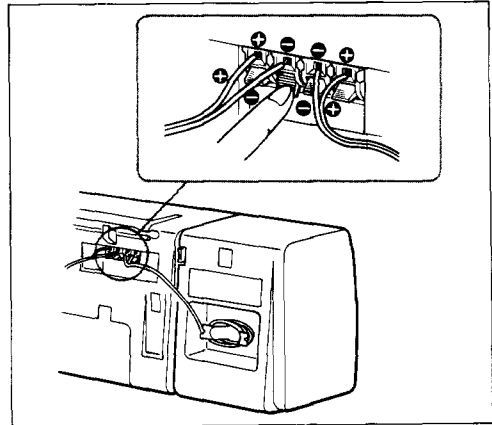


To attach speakers **A**

Align the grooves and slide the speaker box down.

To detach speakers **B**

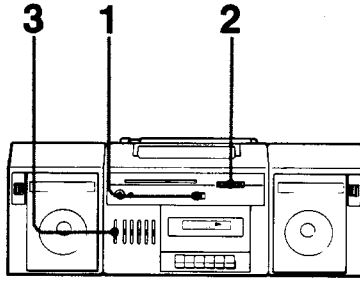
Unlock the speaker and slide the speaker box all the way up and away from the main unit.



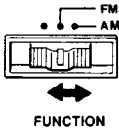
To connect the speaker wire

- Turn off the power before connecting or disconnecting the speaker cords.
- Connect right speaker to R connectors and left speaker to L.
- Connect black wires to - terminals and red wires to + terminals.

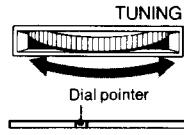
Listening to the Radio



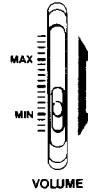
1 Select the desired band.



2 Tune in a desired station.

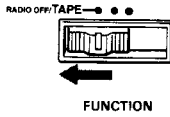


3 Adjust VOLUME

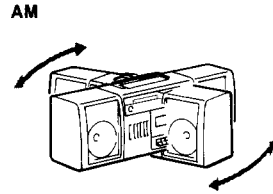
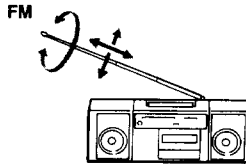


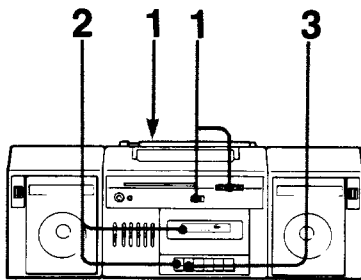
Adjust GRAPHIC EQUALIZER, if necessary.

To turn off the radio



Antenna adjustment





| | | |
|--|---|--|
| <p>1 From radio FM ● ← AM TUNING FUNCTION</p> <p>1 From external microphone (EXT MIC) RADIO OFF/TAPE → ● ● ● (rear) EXT MIC FUNCTION</p> | <p>2 Insert a cassette. STOP/EJECT ↓ </p> | <p>3 REC PLAY ► is pressed automatically.</p> |
|--|---|--|

To stop recording

To prevent accidental erasure

| | |
|---|---|
| <p>To protect side A recording Break out the tab of side A. Side A Tab of side B Tab of side A</p> | <p>To reuse a cassette Cover each slot with plastic tape. Plastic tape</p> |
|---|---|

After recording,
 set FUNCTION to TAPE/RADIO OFF.

When the tape reaches the end, depressed ● and ► will automatically be released (Auto Shut-off function).

The recording level is automatically adjusted.
 Settings of VOLUME, GRAPHIC EQUALIZER controls will not effect recording level.