

FM/AM Cassette Car Stereo

# XR-4157

## Operating Instructions page 2

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

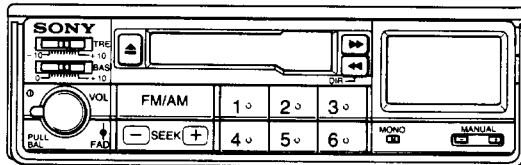
## Owner's Record

The model and the serial numbers are located on the top. 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. XR-4157 Serial No. \_\_\_\_\_

## Mode d'emploi page 16

Avant la mise en service de cet appareil, prière de lire attentivement ce mode d'emploi que l'on conservera pour toute référence ultérieure.



For installation and connections, see the supplied installation/connection manual.

En ce qui concerne l'installation et les connexions, se reporter au mode d'emploi d'installation et connexion fourni.

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- Tuner section**
- SSIR (Sony Super Interference Rejection) PLL Synthesizer tuner.
  - Up to 12 FM and 6 AM stations can be preset.
  - Extended range in AM band (530 - 1,710 kHz).

**Cassette deck section**  
**The auto-reverse function** changes the tape direction automatically.

**Power amplifier section**  
**Fader control** for playback with a 4-speaker system.

**General**  
**Slide-out security bracket** allows you to take the unit away with you when you leave your car.

- If your car was parked in direct sunlight and there was a considerable rise in temperature inside the car, allow the unit to cool off before operating.
- If no power is being supplied to the unit, check the connections first. If everything is in order, check the fuse.
- If no sound comes from the speakers of a 2-speaker system, set the fader control to the center position.

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

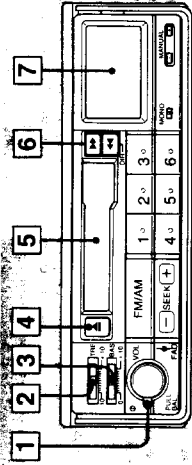
## Notes on the Cassette

### Cassette care

- Avoid touching the tape surface of a cassette, as any dirt or dust will contaminate the head.
- Keep cassettes away from equipment with magnets such as speakers and amplifiers, as erasure or distortion on the recorded tape could occur.
- Do not expose cassettes to direct sunlight, extremely cold temperatures or moisture.

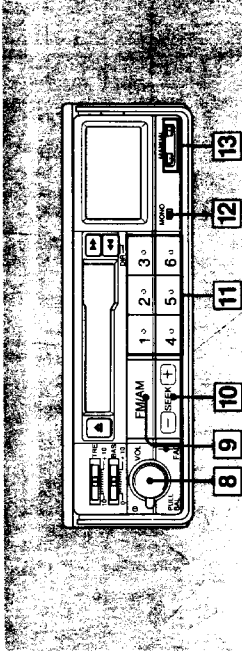
**Note on cassettes longer than 90 minutes**  
 The use of cassettes longer than 90 minutes is not recommended except for long continuous playback.

# Location and Function of Controls



Refer to the page in ● for details.

- 1 **FAD (fade) control**  
Turn clockwise to decrease the volume of the rear speakers or counterclockwise to decrease the volume of the front speakers.
- 2 **TRE (treble) level control**
- 3 **BAS (bass) boost control**
- 4 **Eject button**  
Press to stop the tape and take out the cassette.
- 5 **Cassette insertion door**
- 6 **Fast winding buttons/DIR (tape transport direction change) buttons**  
During playback, depress **◀** or **▶** for fast winding, or press both **◀▶** and **▶▶** simultaneously to listen to the other side of the cassette.
- 7 **Display window**

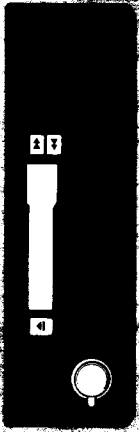


- 8 **Power on-off switch, VOL (volume) control/PULL BAL (balance) control**

<b>Power on-off switch</b>	Press to turn on and off the unit.
<b>VOL control</b>	Turn clockwise to increase volume and counterclockwise to decrease.
<b>PULL BAL control</b>	While pulling the control, turn to adjust the balance of the left and the right channel output.

- 9 **FM/AM band selector**  
Press to select the desired band, FM 1, FM 2, or AM.
- 10 **SEEK -/+ button**  
Press - side to search for lower frequencies and + side for higher frequencies.
- 11 **Preset buttons**
- 12 **MONO (monaural) button**  
Press to reduce noise during reception of a weak FM stereo program. To listen to in stereo, press it again.
- 13 **MANUAL -/+ button**  
Press to tune in the desired station manually.

# Tape Playback



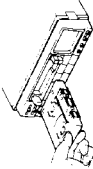
**1**

Press to turn on the unit.



**2**

Insert a cassette.  
Playback starts automatically.



**3**

Adjust the volume.









**Side of the cassette being played back**  
This unit plays back both sides of the cassette repeatedly.  
The indicator on the display window shows which side of the cassette is being played back.


Indicator	Side
▲	The side facing upward
▼	The side facing downward



## Other Operations

Press   (simultaneously).

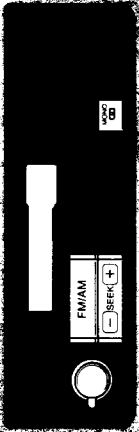
Direction Indicator	To advance	To rewind
▲	Depress  Depress 	Depress 
▼	Depress  Depress 	Depress 

To resume playback, press  or  lightly, which is not depressed.

To stop playback and listen to the radio  
Press  The unit enters the radio mode.

To stop playback and turn off the unit  
Press  and then 

# Automatic Tuning



**1**



Press to turn on the unit.

**2**



Press to select the desired band, FM 1, FM 2, or AM.

**3**



Press to start scanning.

- : For lower frequencies  
+ : For higher frequencies

The scanning automatically stops when a station is tuned in.

Repeat this step until the desired station is tuned in.

**4**



Adjust the volume.

## Other Operations



Insert a cassette.



Press

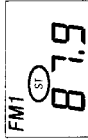
## When the FM stereo program is too weak and noisy

MONO  
Press **M**

The noise will be reduced.  
The sound will be monaural instead.



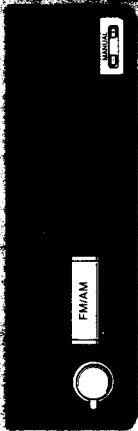
## When an FM stereo program of sufficient signal strength is tuned in



The program is automatically received in stereo.

# Manual Tuning

Use this method when you know the frequency of the desired station, or when the station is too weak to be tuned in by the automatic tuning.



**1**

Press to turn on the unit.



**2**

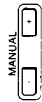
Press to select the desired band, FM 1, FM 2 or AM.



**3**

Press to select the desired station.

- : For lower frequencies  
+ : For higher frequencies



To change the frequency rapidly, keep the button pressed.

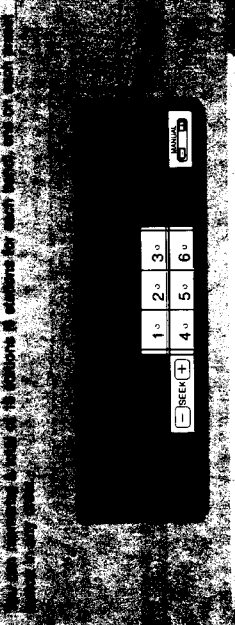
**4**

Adjust the volume.



# Memory Preset Tuning

## To Memorize the Stations

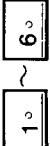


**1**



Tune in a desired station using automatic or manual tuning.

**2**



Keep the desired preset button pressed while the sound is being muted.



The station is memorized.

Repeat these steps for each station.

### Important

Every preset button has only one memory for a band. The previously memorized station will be deleted if you memorize a new station of the same band on the same preset button.

### Warning

While driving, keep your eyes on the road and use the automatic tuning or the memory preset tuning!

To Receive the Preset Station

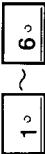
FM/AM	1	2	3
	4	5	6

1



Press to select the desired band.

2



Press the desired preset button lightly.

Fuse Replacement

If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In this case, consult your nearest Sony dealer.

Warning

Use the specified ampere fuse for each lead. Use of a higher ampere fuse may cause serious damage.

Cleaning the Head and the Tape Path

Prolonged use may contaminate the tape head and the tape path. Contamination causes sound drop-outs in playback. Clean the tape head and the tape path every two weeks to enjoy optimum hi-fi stereo sound. Use a commercially available cleaning cassette.

# Specifications

## Audio Power Specifications

**POWER OUTPUT AND TOTAL HARMONIC DISTORTION**  
9 watts per channel minimum continuous average power into 4 ohms, both channels driven, from 30 to 20,000 Hz with no more than 1% total harmonic distortion.

## Other Specifications

### Power amplifier section

Outputs Speaker outputs (sure seal connectors)

Speaker impedance 4, 8 ohms

Maximum power output 22 W (at 4 ohms)\*  
2.4 W (at 16 ohms)

\* Measured at 14.4 V

### Cassette player section

Tape track 4-track 2-channel stereo

Frequency response 30-15,000 Hz

Signal-to-noise ratio 35 dB

Wow and flutter 0.15% (WRMS)

### Tuner section

Tuning range 87.9-107.9 MHz

Antenna terminal External antenna connector

Intermediate frequency 10.7 MHz

Usable sensitivity 15 dB $\mu$  (75 ohms)

Selectivity 70 dB at 400 kHz

Signal-to-noise ratio 66 dB (stereo), 69 dB (mono)

Harmonic distortion at 1 kHz 0.9% (stereo), 0.5% (mono)

Separation 35 dB at 1 kHz

Frequency response 30-15,000 Hz

Capture ratio 2 dB

### AM

Tuning range 530-1,710 kHz

Antenna terminal External antenna connector

Intermediate frequency 450 kHz

Sensitivity 35  $\mu$ V

### General

Output lead Power antenna relay control lead

Tone controls Bass: 0 +10 dB at 100 Hz

Treble:  $\pm$ 8 dB at 10 kHz

Power requirements 12 V DC car battery

(negative ground)

Dimensions Approx. 178 x 50 x 165 mm (w/h/d)

Mounting dimensions (7/8" x 2 x 0 1/2" inches)

Weight Approx. 1.4 kg (3 lb 2 oz)

Accessories supplied Mounting hardware (1 set)

Design and specifications subject to change without notice.