

SONY

3-750-310-21 (1)

FM/AM Cassette Car Stereo

XR-6157

Operating Instructions

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

Owner's Record

The model and serial numbers are located on the top of the unit. 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-6157

Serial No. _____



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

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INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
 - Relocate the equipment with respect to the receiver.
 - Move the equipment away from the receiver.
 - Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.
- If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:
- "How to Identify and Resolve Radio-TV Interference Problems": This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

Features

Tuner section

- SSIF (Sony Super Interference Rejection) PLL Synthesizer tuner
- The quartz-locked digital synthesizer system permits easy and accurate tuning.
- Up to 12 FM and 6 AM stations can be preset.
- The extended range in AM band (530-1710 KHz)

Cassette deck section

- The auto-reverse function changes the tape direction automatically.
- Automatic Music Sensor (AMS) function locates the beginning of a selection

Power amplifier section

- Preamplifier outputs for connecting a power amplifier for a powerful 4-speaker system
- Fader control for playback with a 4-speaker system
- Maximum power output of 7.5 watts per channel

General

- The quartz controlled digital clock

Precautions

- 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 fuses.
- If no sound comes from the speakers of a 2-speaker system, set the fader control to the center position.

Protection circuit

The built-in power amplifier employs a protection circuit to protect the speakers if the amplifier malfunctions. When a protection circuit activates, there will be an abrupt loss of sound from the speakers. Particularly, when a speaker with a low input impedance (less than 4 ohms) is connected to the unit, the sound will be discontinued. This, however, is not a problem. If this happens, turn the volume down a little.

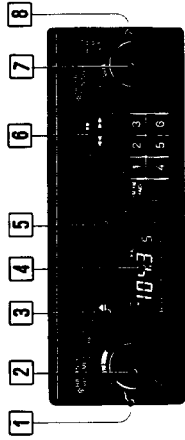
Cassette care

- This unit will automatically reverse the direction of the tape when it senses an entangled tape. If during playback the player should reverse the direction a number of times, the tape should be considerably damaged. In this case, remove the cassette.
- The use of cassettes longer than 90 minutes is not recommended.
- Be sure not to leave cassettes inside your car with the windows closed. Direct sunlight or extremely high temperature will warp cassette shells and cause the tape to stretch.
- Avoid touching the tape surface, as any dirt or dust on the tape will contaminate the heads of the player.
- Store the cassettes in their cases when not in use.

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

Location and Function of Controls

Refer to the page in ● for details.



- 1 **BALANCE control**
Turn to adjust balance of the left and right channel outputs.
- 2 **POWER ON/OFF switch/VOLUME/PUSH TREBLE/PULL BASS control**

POWER ON/OFF switch	Turn clockwise to turn on the unit and then for more volume.
VOLUME control	Press and turn to adjust treble.
TREBLE control	Press and turn to adjust bass.
BASS control	

- 3 **EJECT button**
Press to stop the tape and take out the cassette.

- 4 **Display window**

- 5 **Cassette Insertion door**

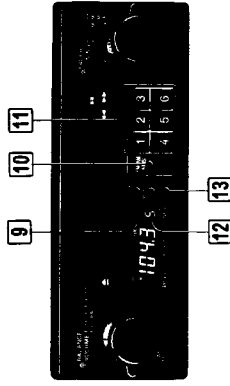
- 6 **(fast winding) buttons/DIR (tape transport direction) buttons**
During playback, depress ◀ or ▶ for fast winding and press both ◀▶ and ▶▶ simultaneously to listen to the other side of the cassette.

- 7 **TUNING knob/PUSH SEEK button/PULL MEMORY knob**

TUNING knob	Turn to manually tune in the desired station.
SEEK button	Press for automatic tuning.
MEMORY knob	Pull to memorize the frequency of the station being received.

Use this knob also for clock setting.

- 8 **FADER control**
Turn clockwise to decrease the volume of the front speakers or counterclockwise to decrease the volume of the rear speakers.



- 9 **DISPLAY button**
Press to display the time indication during radio reception.

- 10 **FM/AM (band select) button/AMS (Automatic Music Sensor) button**

During radio reception	Press to select the desired band.
During tape playback	Press to locate the beginning of the next selection or the selection being played.

- 11 **Preset number buttons**

- 12 **MONO (monaural) button**

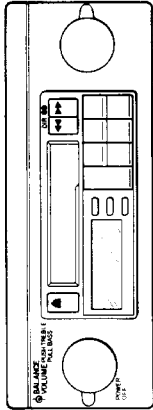
Press to reduce noise during reception of a weak FM stereo program. To listen in stereo, press it again.


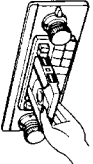

- 13 **MTL/LCL (metal/local) button**



Operation mode	How to use
Tape playback	Press when listening to C-0: (TYPE II) or metal (TYPE IV) tapes. When listening to normal (TYPE I) tapes, press it again.
Radio reception	Press to eliminate interference from adjacent stations during reception of a comparatively strong station. To go back to the normal receiving sensitivity, press it again.

Tape Playback

Before inserting a cassette, take up any slack in the tape with a thick pencil.











- 1  Turn clockwise to turn the power on.
- 2  Insert a cassette. Playback starts automatically.
- 3  Adjust the volume.


Press  



To listen to the other side of the cassette

To wind the tape rapidly

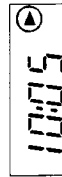
Direction indicator	To advance	To rewind
	Depress 	Depress 
	Depress 	Depress 

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

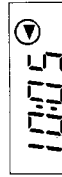
Press  The unit enters the radio mode.

Press  and turn  counterclockwise until it clicks.

Direction Indicator



The side facing up is being played back.






The side facing down is being played back.





To listen to the CrO: (TYPE II) or metal (TYPE IV) tapes
Press MTL/LCL



Press again to disengage.

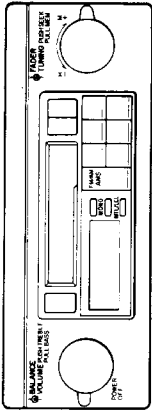
Press  and refer to the following table.

 10:05 

Direction indicator	To locate the beginning of the selection being played	To locate the beginning of the next selection
▲	Depress 	Depress 
▼	Depress 	Depress 

The desired selection cannot be located if...

- there is noise in the space between selections.
 - the space is less than 4 seconds long.
 - the tape is not immediately before the beginning of the desired selection or after the beginning of the desired selection, or within the blank space.
- Playback or fast winding may begin in the middle of the selection when AMS or blank skip is activated, as the following are treated as blanks:
- a long pause in the selection.
 - a passage of low frequencies or very low frequencies.
 - gradual increase or decrease of volume, as in some classical music.



1



Turn clockwise to turn the power on.

2



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

Each time the button is pressed, the corresponding indicator appears on the display window.

3



Press PUSH SEEK.



Stations will be scanned automatically and scanning will stop when a station is tuned in. Repeat pressing the PUSH SEEK until the desired station is tuned in.

4



Adjust the volume.

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

 104.3 

The ST indicator appears.

To play back the tape during radio reception in a stereo mode, the radio is turned off and playback will begin automatically.

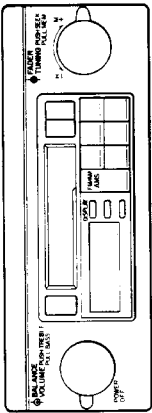
For improved reception

- To receive a weak FM stereo program, press MONO. When the program is received in monoaural, but the noise will be reduced.

In this case, the ST indicator disappears.

- To receive very strong FM/AM station or to receive an AM station at night, press MTL/LCL.

Manual Tuning



- 1 Turn clockwise to turn the power on.
- 2 Press to select the desired band, FM (1 or 2) or AM. Each time the button is pressed, the corresponding indicator appears.
- 3 Turn to tune in the desired station. For lower frequency (turn left) For higher frequency (turn right)
- 4 Adjust the volume.

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

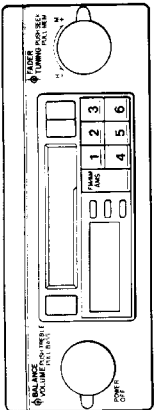


To restore the frequency indication, press it again.

Memory Preset Tuning

Memorize Station Frequency

You can memorize a total of 18 stations (6 stations for each band), one on each preset number button in any order.



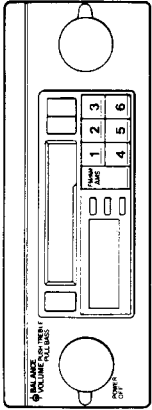
- 1 Tune in a desired station using automatic or manual tuning.
- 2 Pull out PULL MEMORY.
- 3 Press the desired preset number button while the MEM Indicator is displayed. The displayed frequency is memorized.

Repeat steps 1 to 3 to preset all the desired stations.

Notes on memorizing

- The previously memorized station will be erased when you enter a new station of the same band on the same number preset button.
- The MEM indication appears for about 5 seconds. If it disappears, pull out PULL MEMORY again.

Memory Preset Tuning



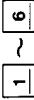
1

Press to select the desired band.



2

Press the desired preset number button.

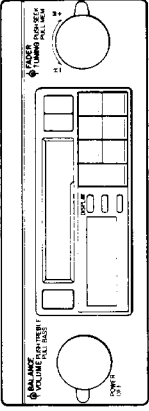


3

Adjust the volume.



How to Set the Clock



1

Turn clockwise to turn the power on.



2

Press to display the time digits.



3

Turn to **H** while pulling out **TUNING**.
Set the hour digits.



4

Turn to **M** while pulling out **TUNING**.
Set the minute digits.



The digits are advanced in sequence. To advance them rapidly, keep TUNING turned while pulling it out.

When you set minute digits "00" comes after "59". The hour digits do not change then.

Specifications

AUDIO POWER SPEAKERS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
4 watts per channel minimum continuous average power into
4 ohms, both channels driven, from 150 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	7.5 W + 7.5 W (at 4 ohms)* * Measured at 14.4 V

Cassette player section

Tape track	4-track 2-channel stereo
Frequency response	40 - 14,000 Hz
Signal-to-noise ratio	53 dB with TYPE I cassettes 57 dB with TYPE II, IV cassettes
Wow and flutter	0.15% (WRMS)

Tuner section FM

Tuning range	87.9 - 107.9 MHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	12.5 dBf (75 ohms)
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	62 dB (stereo), 67 dB (monaural)
Harmonic distortion at 1 kHz	0.8% (stereo), 0.5% (monaural)
Separation	30 dB at 1 kHz
Frequency response	30 - 15,000 Hz (± 3 dB)
Capture ratio	2.5 dB

AM

Tuning range	530 - 1710 MHz
Antenna terminal	External antenna connector
Intermediate frequency	450 kHz
Sensitivity	32 μ V

General

Output lead	Power antenna relay control lead
Tone controls	Bass ± 8 dB at 100 Hz Treble ± 8 dB at 10 kHz
Output connector	OUTPUT (preamplifier output) jacks (phono jacks) Ground via terminal
Power requirements	12 V DC car battery (negative ground)
Mounting dimensions	Approx. 178 x 50 x 125 mm (w/h/d) (7 $\frac{1}{8}$ x 2 x 5 inches)
Weight	Approx. 1.3 kg (2 lb 14 oz)
Accessories supplied	Mounting hardware (1 set)

Design and specifications subject to change without notice.