

FM/AM Cassette Car Stereo

XR-7400

Operating Instructions page 2

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

Mode d'emploi page 22

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/connections manual.

Pour l'installation et les connexions, se reporter au mode d'emploi d'installation/connexions fourni.

Table of Contents

..... 2
 ons 3
 nnecting the sub-woofer speaker 4
 n 4
 and function of controls 5

Deck operation
 yback 8

Reception
 ic tuning 10
 tuning 12
 preset tuning 13

Station
 ying 15

 ance 18
 ations 19
 ooting guide 20

Owner's Record

Model and the serial numbers are located
 on the top. Record the serial number in the
 provided below. Refer to these numbers
 when you call upon your Sony dealer
 regarding this product.

Model No. XR-7400 Serial No. _____

Features

Tuner section

- SSIR (Sony Super Interference Rejection) PLL Synthesizer tuner.
- Automatic memory function stores a total of 24 stations in memory quickly and easily.
- Memory scan function scans preset stations for five seconds in order.

Cassette deck section

- Full logic control feather touch mechanism.
- Amorphous head which produces clear sound.
- The auto-reverse function changes the tape direction automatically.
- The C-type Dolby NR* system is incorporated as well as the B-type Dolby NR system.
- Intro play scans the beginning of each selection sequentially.
- Repeat play plays the selection being played repeatedly.
- Blank skip function automatically skips the blank portion longer than eight seconds and plays back the next selection.

General

- SUB WOOFER output for powerful bass reproduction system.
- Slide-out security bracket allows you to take the unit away with you when you leave your car. You can also choose the fixed mounting with the supplied attachment hardware.
- You can control the optional Sony CD auto changer so that you can enjoy various plays, such as shuffle play or disc scan.

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

Precautions

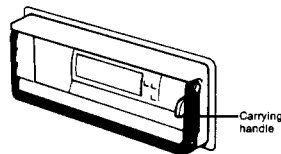
- If your car was parked in direct sunlight and there was a considerable rise in temperature inside the car, allow the unit to cool off before operating.
- If no power is being supplied to the unit, check the connections first. If everything is in order, check the fuse.
- If no sound comes from the speakers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

Cassette care

- Avoid touching the tape surface of a cassette, as any dirt or dust will contaminate the heads.
- 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.
- The use of cassettes longer than 90 minutes is not recommended except for long continuous playback.

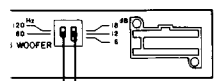
When you have secured the unit into the bracket, make sure that the handle is completely retracted as shown below. Otherwise, the unit will not be turned on.



Before removing the unit from the bracket, be sure to turn the power off. If you raise up the handle to remove the unit while the unit is turned on, however, the power will be automatically turned off. This will protect speakers from being damaged.

Connecting the Sub-woofer Speaker

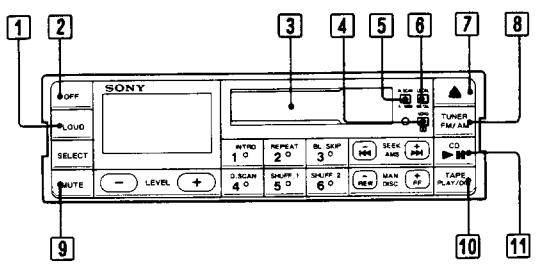
WOOFER output is provided for the powerful bass reproduction. When you connect the lifter for the sub-woofer speaker system with this unit, set the SUB WOOFER switches to the appropriate positions.



- Select the output level to be boosted.
- Select the cut-off frequency lower than which is to be boosted.

For detailed information on connections, see the supplied installation/connections manual.

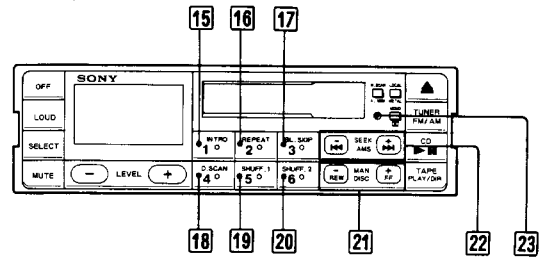
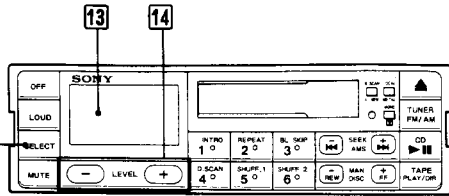
Location and Function of Controls



Refer to the page in ● for details.

- 1 LOUD (loudness) button**
Press to reinforce bass and treble especially when listening at low volume. To disengage the button, press it again.
- 2 OFF (power off) button**
Press to turn off the unit.
- 3 Cassette insertion door**
- 4 MONO (monaural) button ●**
- 5 M. SCAN (memory scan)/ A.MEM (automatic memory) button ●**
- 6 LOCAL button ●**
- 7 ▲ (eject) button**
- 8 TUNER FM/AM (radio on/band select) button**
- 9 MUTE button**
Press to momentarily mute the sound. Press again to restore the same sound level as before.
- 10 TAPE PLAY/DIR (tape playback/transport direction change) button ●**
- 11 CD ►|| (disc play/pause) button ●**

4 MONO (monaural) button ●	□ button ●
5 M. SCAN (memory scan)/ A.MEM (automatic memory) button ●	—
6 LOCAL button ●	METAL (metal/CrO₂) button ●



(control mode select) button
 Select the desired control mode. BAS
 E (treble), BAL (balance), FAD (fader,
 luma).

14 LEVEL (volume/tone/balance control) button

LEVEL button normally functions as the volume control. Adjust the level within three seconds after selecting the desired control mode. Otherwise, the mode goes back to the volume control mode.

window

Control	For less	For more
Bass control	For less bass	For more bass
Treble control	For less treble	For more treble
Balance control	To decrease the right-speaker volume	To decrease the left-speaker volume
Fader control	To decrease the rear-speaker volume	To decrease the front-speaker volume
Volume control	For less volume	For more volume

15	INTRO button ●●	Preset number buttons ●
16	REPEAT button ●●	
17	BL. SKIP (blank skip) button ●	
18	D.SCAN (disc scan) button ●	
19	SHUFF. (shuffle) 1 button ●	
20	SHUFF. (shuffle) 2 button ●	
21	DISC (disc change) button ● Manual search button (when keep pressed longer than 0.5 sec.) ●	MAN (manual tuning) button ●
22	AMS* button	
23	SEEK (automatic tuning) button ●	

23 Reset button
 Press this button when no other button functions.

Note: Mute function, intro play, disc scan, and shuffle play (1 and 2) will be cancelled when you press OFF button or when you keep the ignition key set to the off position for more than eight seconds. Blank skip function will be maintained until you press BL. SKIP button again.

*Automatic Music Sensor

pe Playback

— LEVEL +



Insert a cassette to start playback.

— LEVEL +

Press to adjust the volume.

Wind or fast-
forward the tape



To stop the tape and
listen to the radio



Switch on to the other
side of the cassette



To stop the tape and
start the disc play



Play out the
tape



To play back the tape
again



To stop the tape and
turn off the unit



Identify the tape type

Tape type	Indicator
(TYPE II)	Press LOCAL/METAL once to engage the button.
(TYPE IV)	Press LOCAL/METAL twice to disengage the button.
(TYPE I)	Press LOCAL/METAL twice to disengage the button.

Press **MONO**

Select Dolby B or Dolby C. Select the same Dolby NR system used for the recorded cassette. Dolby NR (Noise Reduction) system reduces tape hiss noise in low-level, high-frequency signals.

To locate the beginning of the selection being played

Press

To locate the next selection

Press

Press **INTRO 1**
(during tape playback)

First ten seconds of each selection will be played back in order from the next selection. Press again to release it.

Press **REPEAT 2**

The unit goes back to the beginning of the selection when the selection ends.

Press **BL. SKIP 3**

The unit skips the long blank (more than eight seconds) automatically and plays back the next selection. Press again to release this function.

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

Automatic Tuning



TUNER
FM/AM

TUNER
FM/AM

Press to turn on the unit.

TUNER
FM/AM

Press to select the desired band,
FM1, FM2, FM3 or AM



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.



Press to adjust the volume.

To stop the radio and start tape playback

When no
cassette is
inserted



When a cassette
is inserted



To stop the radio and...

To start disc
play



To turn off
the unit



MONO

Press



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

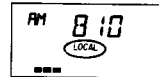


LOCAL

Press



Only the stations with
comparatively strong
signals can be tuned in.



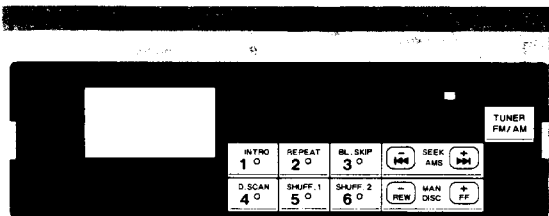
When an FM stereo program of sufficient signal
strength is tuned in



The program is automatically received in
stereo.



You can memorize a total of 24 stations (6 stations for each band), one on each preset number.



TUNER
FM/AM

Press to turn on the unit.

TUNER
FM/AM

Press to select the desired band.

REW MAN DISC **FF**

Press to select the desired station.

REW For lower frequencies
FF For higher frequencies

To change the frequency rapidly, keep the button pressed.

LEVEL

Press to adjust the volume.

- 1** **TUNER FM/AM** Press to turn on the unit.
- 2** **TUNER FM/AM** Press to select the desired band.
- 3** **M . SCAN**
A . MEM Press for more than two seconds. The unit starts scanning the selected band and memorizes the tuned stations on the preset number buttons 1 through 6 automatically in the order of the stronger station.

Press **M . SCAN**
A . MEM Each memorized station will be scanned for five seconds in order. (When the broadcast of the memorized station is too weak, it cannot be received.)

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

Examples To re-memorize on the preset number 1

	Press to turn on the unit.
	Press to select the desired band.
	Press to tune in the desired station.
	Press for more than two seconds. The number of the pressed preset number button will be displayed. MEM indicator appears to show that the station has been memorized. (MEM indicator will disappear in a few seconds.)

at these steps for each station.

	Press to select the desired band.	
		Press lightly to receive the desired station.

1. The preset number button has only one memory stored. The previously memorized station will be replaced when you enter a new station of the same preset number button.

Disc Playing (When the optional CD auto changer is connected)



Before operating, insert a disc magazine with discs in it into CD auto changer.

1		Press to start the disc play.
2		Press to adjust the volume.

To listen to another disc in the disc magazine (Press lightly)	
To pause during play	
To start again	

To stop disc play and start tape playback

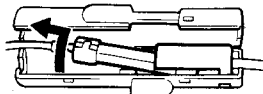
When no cassette is inserted	
When a cassette is inserted	

To stop disc play and...

To listen to the radio	
To turn off the unit	

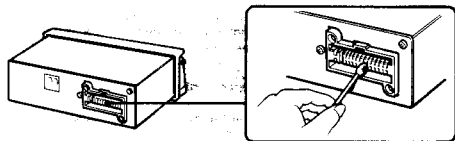
Maintenance

When you blow the fuse, check the power connection to the fuse. If the fuse blows again, there may be an internal problem. In this case, consult your Sony dealer.



Use a specified ampere fuse for each lead. A higher amperage fuse may cause damage.

To get the best possible sound quality, clean the metallic part of the connector at the rear of the cassette deck periodically using a commercially available head cleaning fluid or rubbing alcohol and a cotton swab.



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

Specifications

Cassette player section

Tape track 4-track 2-channel stereo
Frequency response 30 - 20,000 Hz

Signal-to-noise ratio

Cassette type	Dolby B	Dolby C	Dolby off
TYPE II, IV	66 dB	76 dB	56 dB
TYPE I	63 dB	73 dB	56 dB

Wow and flutter 0.09% (WRMS)

Tuner section

FM
Tuning range 87.9 - 107.9 MHz
Antenna terminal External antenna connector
Usable sensitivity 12 dBf (75 ohms)
Selectivity 75 dB at 400 kHz
Signal-to-noise ratio 85 dB (stereo), 70 dB (mono)
Harmonic distortion at 1 kHz 0.5% (stereo), 0.3% (mono)
Separation more than 30 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
Sensitivity 35 μV

General

Output lead Power antenna relay control lead
Tone controls Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz
Loudness +7 dB at 100 Hz
+7 dB at 10 kHz
Power requirements 12 V DC car battery (negative ground)
Dimensions (without bracket) Approx. 178 × 50 × 153 mm (width)
7 1/8 × 2 × 6 1/8 inches (not incl. projecting parts and controls)
Mounting dimensions Approx. 182 × 53 × 145 mm (width)
7 1/8 × 2 1/8 × 5 1/2 inches (not incl. projecting parts and controls)
Weight Approx. 1.9 kg (4 lb 3 oz)
Accessories supplied Mounting hardware (1 set)

Design and specifications subject to change without notice.

troubleshooting Guide

ing checks will assist in the correction of most problems which you may encounter
init.
ng through the check list below, first refer back to the connection and operating
s.

ption	
ning is not possible.	<ul style="list-style-type: none"> • Memorize the correct frequency. • The broadcast is weak. → Use manual tuning.
ic tuning is not possible.	<ul style="list-style-type: none"> • The broadcast is weak. → Use manual tuning.
EO Indicator flickers.	<ul style="list-style-type: none"> • Tune in precisely. • The broadcast is weak. → Press the MONO button.

ack	
ound is distorted.	<ul style="list-style-type: none"> • Contamination of the tape head. → Clean the head.
does not operate correctly.	<ul style="list-style-type: none"> • There is a noise in the space between selections. • A blank space is too short (less than 4 seconds). • FF is pressed immediately before the following selection. • REW is pressed immediately after the selection starts. • A long pause, or a passage of low frequencies or very low sound level is treated as a blank.

Disc play	
No sound	<ul style="list-style-type: none"> • The unit is in the pause mode.
Playback sound is skipped.	<ul style="list-style-type: none"> • Dusty or defective disc.

General	
No sound	<ul style="list-style-type: none"> • Control the volume with the LEVEL button. • Set the fader control to the center position on the 2-speaker system.

About the error displays (When the optional CD auto changer is connected.)
The following indicator flickers for about five seconds and alarm sound is heard.

Display	Cause	Remedy
E-01	The disc magazine is not inserted in the CD auto change.	Insert the disc magazine with discs in it into the CD auto changer.
E-02	No disc is inserted in the disc magazine.	Take out the magazine and insert the discs.
E-04	The disc is dirty.	Clean the disc.
	The disc is inserted upside down.	Insert the disc correctly.
E-99	The CD auto changer cannot be operated because of some trouble.	Press the reset button of the XR-7400.
WAIT	The temperature is too high and the protection circuit has activated.	Wait till the unit cools off.