

SONY

3-755-764-21 (1)

FM/AM Cassette Car Stereo

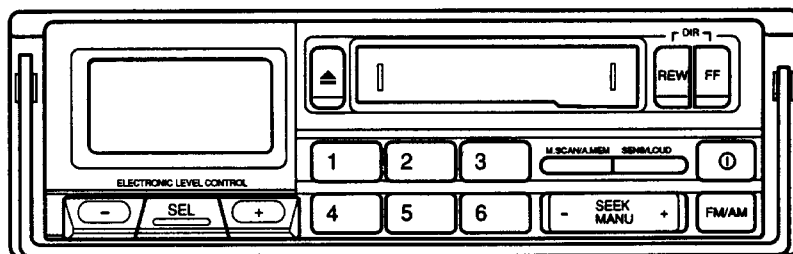
XR-3050

Operating Instructions page 2

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

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.



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Features

Tuner section

- **SSIR (Sony Super Interference Rejection) PLL synthesizer** tuner for precise tuning.
- **Memory preset** tuning allows you to store 6 stations on the AM band and 12 stations on the FM band in memory.

Cassette deck section

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

General

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

CAUTION

Make sure to turn off the power before you pull out the unit.

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 position, 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 questions or problems concerning your unit that is not covered in this manual, please consult your nearest Sony dealer.

Notes on Cassettes

Cassette care

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

Note on cassette longer than 90 minutes

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

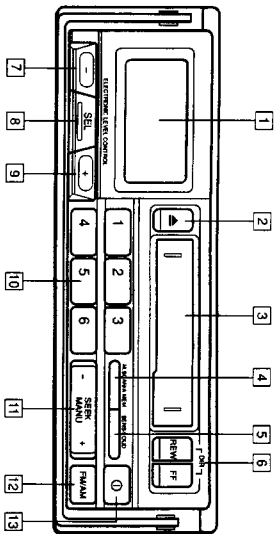
Owner's Record

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-3050 Serial No. _____

Locations and Function of Controls



1 Display window

2 EJECT button
Press to stop tape playback and eject the cassette

3 Cassette insertion door

4 M.SCAN (memory scan)/A.MEM (auto-memory) button
M.SCAN—Press for the computer to scan the preset stations automatically.
A.MEM—Press and hold for longer than two seconds to memorize the stations automatically.

5 SENS/LOUD (sensitivity/loudness) button

Press and release in 2 seconds to change sensitivity mode: stereo distant (seek), stereo local (seek), monaural distant (seek). These modes will be also used in manual operation. Hold longer than 2 seconds to set on and off the loudness mode.

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

7 Volume (down)/Bass (-)/Treble (+)/Balance (left)/Fader (front)/Level (-) button

After selecting the mode with the Audio mode select button, press to adjust the level.

8 Audio mode (Volume/Bass/Treble/Balance/Fader) select buttons

Press to change the mode for adjustment.

9 Volume (up)/Bass (+)/Treble (+)/Balance (right)/Fader (rear)/Level (+) button

After selecting the mode with the Audio mode select button, press to adjust the level.

10 Preset number buttons (1, 2, 3, 4, 5, 6)

11 SEEK (-)/MANU (manual)/(+/-) buttons

Press and release, in 0.5 second, - side to search stations in lower frequencies, and + side to search in higher frequencies. Press and hold longer than 0.5 second to change to the manual mode. Then, frequencies will be changed manually by pressing the button. The manual mode is maintained for 2 seconds after releasing the button.

12 FM/AM band select button

13 Power on/off select switch
Press to turn on and off the unit.

Cassette deck operation

Tape Playback

1. Press **13** to turn on the unit.
2. Insert a cassette. **3**
3. Adjust the volume. **7** **9**

Other Operations

- To listen to the other side of the cassette
- Press FF and REW buttons **6** simultaneously.

To wind the tape rapidly

- Depress FF button **6** to advance the tape.
- Depress REW button **6** to rewind the tape.
- To resume playback, press the opposite side of button FF or REW lightly.

To stop playback and listen to the radio

- Press the EJECT button. **2**
- The unit enters the radio mode.

Audio Level Adjustment

Press the Audio Mode Select button [8] to select the mode (volume, bass, treble, balance or fader) that you wish to adjust.

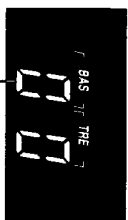
The mode is indicated on the display window. Adjust the level with the Level (-) [7] or (+) [9] button while the mode is displayed.

When you press the level button, the volume mode is automatically selected and volume can be adjusted. Adjust each level in 3 seconds after selecting a mode.

If you leave a mode for longer than 3 seconds without any operation, the mode will be released and returned to the previous indication. Volume mode will be released in about 1 second. In this case, press the Select button to indicate the mode that you wish to adjust.

1. Adjusting the bass sound

Press to display the indication on the right.



Blink

While the indication on the left is displayed

Press to decrease



Press to increase



2. Adjusting the treble sound

Press to display the indication on the right.



Blink

While the indication on the left is displayed

Press to decrease

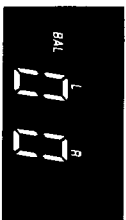


Press to increase



3. Adjusting the balance between left and right

Press to display the indication on the right.



While the indication on the left is displayed

Press to decrease



(number on the right decreases or the left increases)

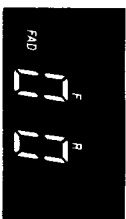
Press to increase



(number on the left decreases or the right increases)

4. Adjusting the fader between front and rear

Press to display the indication on the right.



While the indication on the left is displayed

Press to decrease



(number on the rear decreases or the front increases)

Press to increase



(number on the front decreases or the rear increases)

5. Adjusting volume

Volume is usually adjusted with the level buttons only. Volume is also adjusted as below.

Press to display the indication on the right.



While the indication on the left is displayed

Press to decrease



Press to increase



To Memorize the Volume Level in the Unit

Adjust the volume first to the desired level. Press and hold the POWER button for more than 2 seconds. The unit is turned off and the preset volume is memorized. The sound comes out with the preset volume level when the unit is turned on again, even if the unit has been turned off with the previous higher volume level. Also if the unit is turned off with lower volume level, the sound comes with the previous lower level when turned on again.

Adjusting Sound

Loudness

When listening at low volume

When set on, low and high area of sound is emphasized. Press and hold the button [5] for longer than 2 seconds. Repeat the same step to release the mode.

Automatic Tuning

1. Press **[3]** to turn on the unit.
2. Press **[2]** to select the desired band, FM 1, FM 2, or AM.
3. Press the SEEK button **[1]** to start searching.
 - : For lower frequency stations
 - + : For higher frequency stations

The searching automatically stops when a station is tuned in. Repeat this step until the desired station is tuned in.

When the FM stereo program is too weak and noisy

- Press the SENS button **[5]** to indicate MONO on the display window. The sound will be monaural and noise will be reduced.

Manual Tuning

1. Press **[3]** to turn on the unit.
2. Press **[2]** to select the desired band, FM 1, FM 2, or AM.
3. Press the MANU button **[1]** for longer than 0.5 second to select the manual mode, then press - or + side in 2 seconds after releasing the button.
 - : For lower frequency stations
 - + : For higher frequency stations

To change the frequency rapidly, keep the button pressed.

Note: The manual mode will be released automatically 2 seconds after leaving the button without operation.

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

Memory Preset Tuning

To Memorize the Stations

The unit can memorize up to 6 stations on the AM band and 12 stations on the FM band (6 stations each on FM 1 and FM 2).

1. Tune in a desired station using the automatic or manual tuning. **[1]**
2. Keep the desired preset button **[10]** pressed while the sound is mute and frequency blinks.
3. Repeat these steps for each preset button.

Important

Every preset button has only one memory for a band. The previously memorized station will be erased when you enter a new station of the same band on the same preset button.

To Receive the Preset Station

1. Press **[2]** to select the desired band.
2. Press the desired preset button **[10]** lightly.

To memorize the stations automatically

- Press the M.SCAN/A.MEM button **[4]** for longer than 2 seconds. The unit scans for the stations, and memorize them on the preset number in order of frequency and of the preset number. Scanning starts from the frequency and the preset number indicated on the display window and up to 6 stations will be stored automatically.
- Press the FMAM button **[2]** again to select FM 1, FM 2, or AM and repeat the procedure again.

To survey what is being broadcasted on the preset stations

- Press the M.SCAN/A.MEM button **[4]** lightly. Each memorized station will be scanned for a few seconds. To stop scanning, press the button again at the desired program.

Note: The previously stored stations will be cleared and renewed with the stations stored by automatic memory.

Maintenance

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

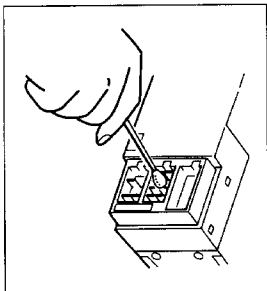
Use the specified amperage fuse for each head. Use of a higher amperage fuse may cause serious damage.

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.

Cleaning the Connector

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

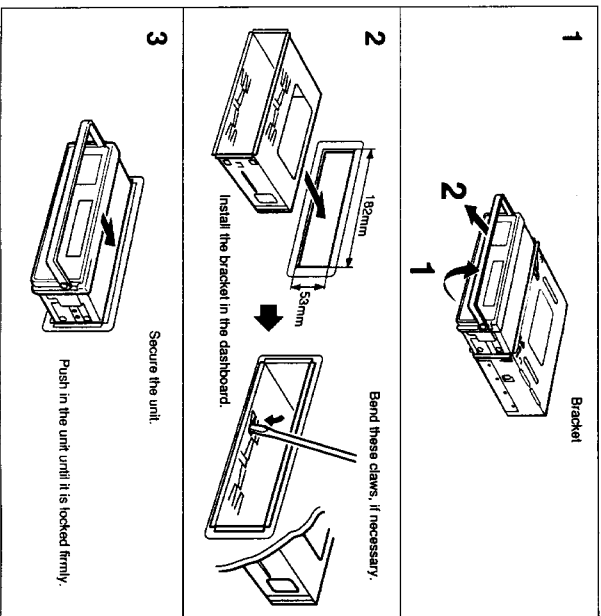


Installation

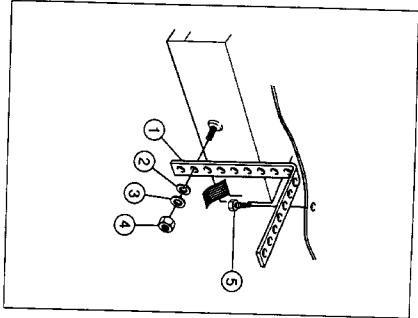
Precautions

- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it should be subjected to high temperatures, such as from direct sunlight or from hot air from the heater, or where it would be subjected to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

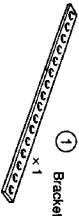




To install the Unit in the Dashboard



To Support the Unit

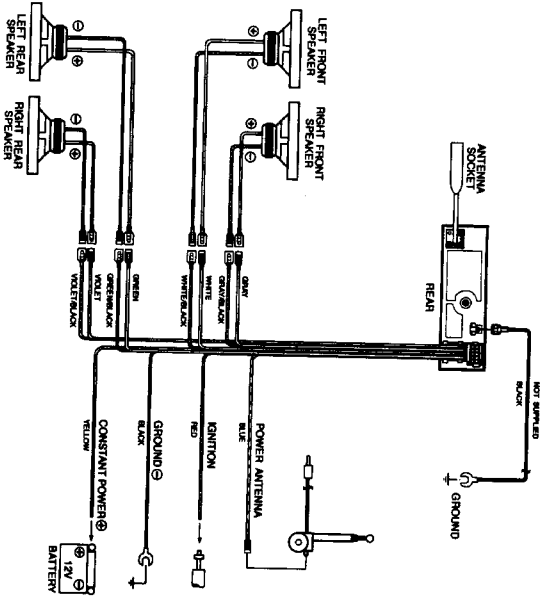


Supplied Mounting Hardware

 1 Bracket x 1	 2 Spring washer x 1
 3 Washer x 1	 4 Nut x 1
 5 Screw x 1	

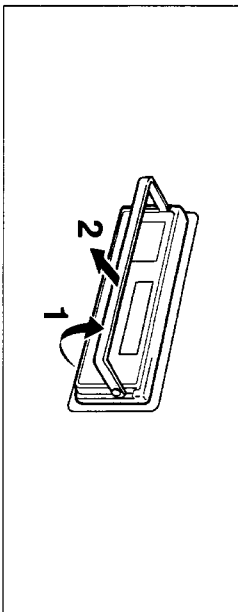
The numbers in the list are keyed to those in the instructions.

Connection



To remove the unit

This prevents your car stereo set from being stolen.



Specifications

Power amplifier section

Outputs
Speaker impedance
Maximum power output

Speaker outputs (sure seal connectors)
4 - 8 ohms
7W x 4 (at 4 ohms)* (*Measured at 14.4 V)

Cassette player section

Tape track
Frequency response
Signal-to-noise ratio
Wow and flutter

4-track 2-channel stereo
30 - 15,000 Hz
55 dB
0.13% (WRMS)

Tuner section

System

Antenna terminal

Superheterodyne tuner
Computerized quartz-locked synthesizer system
External antenna connector

FM tuner section

Tuning range
Intermediate frequency
Usable sensitivity
Selectivity
Signal-to-noise ratio
Harmonic distortion at 1 kHz
Separation
Frequency response
Capture ratio

87.5 - 107.9 MHz
10.7 MHz
13 dB (75 ohms)
75 dB at 400 KHz
66 dB (stereo), 69 dB (mono)
0.9% (stereo), 0.5% (mono)
30 dB at 1 KHz
30 - 15,000 Hz
2 dB

AM tuner section

Tuning range
Intermediate frequency
Sensitivity

530 - 1,710 KHz (at 10 KHz step)
450 KHz
35 μ V

General

Tone controls

Loudness

Bass \pm 8 dB at 100 Hz
Treble \pm 8 dB at 10 KHz
 \pm 10 dB at 100 Hz

Output lead

Power antenna relay control lead

Power requirements
Dimensions

12 V DC car battery (negative ground)
Approx. 178 x 50 x 154 mm (7 $\frac{1}{8}$ x 2 x 6 $\frac{1}{8}$ inches)
(w/h/d) not incl. projecting parts and controls

Mounting dimensions

Approx. 182 x 53 x 155 mm (7 $\frac{1}{4}$ x 2 $\frac{1}{8}$ x 6 $\frac{1}{8}$ inches)
(w/h/d)

Weight

Approx. 1.6 kg (3 lb 8 oz)

Accessories supplied

Mounting hardware (1 set)

Design and specifications subject to change without notice.