

***FM/MW/SW  
Cassette Car  
Stereo***

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Operating Instructions \_\_\_\_\_

**EN**

*XR-T200*

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# Welcome!

Thank you for purchasing the Cassette Car Stereo.

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# Getting Started

## Resetting the unit

Before operating the unit for the first time or after replacing the car battery, you must reset the unit.

Press the reset button with a pointed object, such as a ballpoint pen.



Reset button

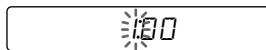
### Note

Pressing the reset button will erase all the memorized program and memory functions.

## Setting the clock

The clock has a 12-hour digital indication.  
For example, setting it to 10:08

- 1 Press **(DSPL)** for two seconds.



The hour digit flashes.

- 1 Set the hour digits.

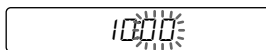


To go forward

To go backward



- 2 Press **(SEL)** momentarily.



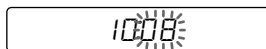
The minutes digits flashes.

- 3 Set the minute digits.

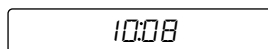


To go forward

To go backward



- 2 Press **(DSPL)** momentarily.

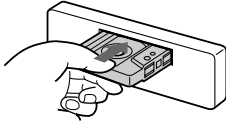


The clock starts.

# Cassette Player

## Listening to a tape

Insert a cassette.



Playback will start automatically.

If a cassette is already inserted, press **(SOURCE)** repeatedly until "TAPE" is displayed.



The side facing up is being played.



The side facing down is being played.

### Tip

To change the tape transport direction, press **(MODE)** (**◀▶**) during tape playback.

To	Press
Stop playback	<b>(OFF)</b>
Eject the cassette	<b>▲</b>

## Fast-winding the tape

During playback, press either side of **(SEEK/AMS)** for one seconds.



Fast-forward

Rewind

To start playback during fast-forwarding or rewinding, press **(MODE)** (**◀▶**).

## Locating the beginning of a track — Automatic Music Sensor (AMS)

You can skip up to nine tracks at one time.

During playback, press either side of **(SEEK/AMS)** momentarily.



To locate the succeeding tracks

To locate the preceding tracks

### Note

The AMS function may not work when :

- the blanks between tracks are shorter than 4 seconds
- there is noise between tracks
- there are long sections of low volume or quiet sections.

## Changing the displayed items

Each time you press **(DSPL)** during tape playback, the displayed item changes as follows:



\* While the ATA function is activated.

## Playing a tape in various modes

### Searching for the desired track

— Intro scan

Press **(1)** during playback.

"INTRO" appears on the display.

The first 10 seconds of all the tracks are played.

When you find the desired track, press again. The unit returns to the normal playback mode.

### Playing tracks repeatedly

— Repeat play

Press **(2)** during playback.

"REP" appears on the display.

When the current played track is over, it will be played again from the beginning.

To cancel this mode, press again.

## Switching to the radio while fast-winding a tape

### — Automatic Tuner Activation (ATA)

Press **(5)** during playback.  
“ATA” appears on the display.

When fast-forwarding or rewinding with **(SEEK/AMS)**, the tuner will turn on automatically.

To cancel this mode, press **(5)**.

## Skipping blanks during tape playback — Blank skip

Press **(6)** during playback.  
“BL.SKIP” appears on the display.

Blanks longer than eight seconds will automatically be skipped during tape playback.

To cancel this mode, press **(6)**.

# Radio

## Memorizing stations automatically

### — Best Tuning Memory (BTM)

This function selects from the currently received band the stations with the strongest signals and memorizes them in order of their frequency.

### PREVENTING ACCIDENTS!

When tuning in while driving, use the automatic tuning instead of manual tuning.

**1** Press **(SOURCE)** repeatedly to select the tuner.

Each time you press **(SOURCE)**, the source changes as follows:

TAPE ↔ TUNER

**2** Press **(MODE)** repeatedly to select the band.

Each time you press **(MODE)**, the band changes as follows:

FM1 → FM2 → FM3 → MW → SW1 → SW2

**3** Press **(BTM)** for two seconds.

### Notes

- The unit will not store stations with weak signals on the preset number buttons. If there are only a few stations received, some preset number buttons will remain empty.
- When there is a preset number indicated on the display, the unit will store stations on all preset number buttons from the one currently displayed.

## Memorizing only the desired stations

Up to 6 stations on each band (FM1, FM2, FM3, MW, SW1 and SW2) can be stored on the preset number buttons in the order of your choice. Therefore, 18 FM stations can be memorized.

If you try to store another station on the same preset number button, the previously stored station will be erased.

- 1 Press **(SOURCE)** repeatedly to select the tuner.
- 2 Press **(MODE)** repeatedly to select the band.
- 3 Press **(SEEK/AMS)** to search for the station you wish to store on a preset number button.
- 4 Press the desired preset number button (**(1)** to **(6)**) for two seconds.

The number of the selected preset number button appears on the display.

## Receiving the memorized stations

- 1 Press **(SOURCE)** repeatedly to select the tuner.
- 2 Press **(MODE)** repeatedly to select the band.
- 3 Press the preset number button (**(1)** to **(6)**) momentarily on which the desired station is stored.

### Changing the displayed items

Each time you press **(DSPL)**, the display changes between the frequency and the clock.

### If you cannot tune in a preset station

Press either side of **(SEEK/AMS)** momentarily to search for the station (automatic tuning).  
Scanning stops when a station is received.  
Press either side of the button repeatedly until the desired station is received.

#### Note

If the automatic tuning stops too frequently, press **(LCL)** to lights up "LCL" on the display (local seek mode). Only the stations with relatively strong signals can be tuned in.

#### Tip

If you know the frequency, press and hold either side of **(SEEK/AMS)** until the desired station is received (manual tuning).

## Other Functions

### Adjusting the sound characteristics

- 1 Select the item you want to adjust by pressing **(SEL)** repeatedly.  
VOL (volume) → BAS (bass) → TRE (treble) → BAL (balance) → FAD (fader)

- 2 Adjust the selected item by pressing either **(+)** or **(-)**.

Adjust within three seconds after selecting. (After three seconds the button will again serve as the volume control button.)

### Muting the sound

Press **(MUTE)**.

The "MUTE" indication flashes.

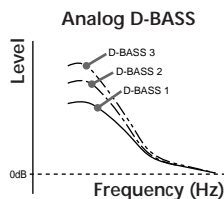
To restore the previous volume level, press again.

## Changing the sound and beep tone

### Boosting the bass sound — D-Bass

You can enjoy clear and powerful bass sound. The D-bass function boosts the low frequency signal with a sharper curve than conventional bass boost.

You can hear the bass line more clearly even if the vocal sound is the same volume. You can emphasize and adjust the bass sound easily with the D-bass control. This effect is similar to the one you get when you use an optional subwoofer system.



### Adjusting the bass curve

Turn the D-BASS control to adjust the bass level (1, 2 or 3).

"D-BASS" appears in the display.

To cancel, turn the control to the OFF position.

#### Note

The bass sound may distort at same volumes. If the bass sound distorts, adjust the D-BASS control or volume button.

### Muting the beep tone

Press **(6)** while pressing **(SEL)**.

To obtain the beep tone again, press these buttons again.

# Additional Information

## Precautions

- If your car was parked in direct sunlight resulting in a considerable rise in temperature inside the car, allow the unit to cool off before operating it.
- 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.
- When the tape is played back for a long period, the cassette may become warm because of the built-in power amplifier. However, this is not a sign of malfunction.

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If you have any questions or problems concerning your unit that are not covered in this manual, please consult your car dealer.

### To maintain high quality sound

If you have drink holders near your audio equipment, be careful not to splash juice or other soft drinks onto the car audio. Sugary residues on this unit or cassette tapes may contaminate the playback heads, reduce the sound quality, or prevent sound reproduction altogether.

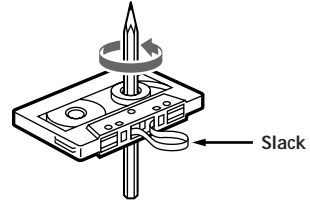
Cassette cleaning kits cannot remove sugar from the tape heads.



## Notes on Cassettes

### Cassette care

- Do not touch the tape surface of a cassette, as any dirt or dust will contaminate the heads.
- Keep cassettes away from equipment with built-in 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.
- Slack in the tape may cause the tape to be caught in the machine. Before you insert the tape, use a pencil or similar object to turn the reel and take up any slack.

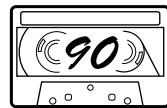
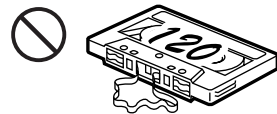


- Distorted cassettes and loose labels can cause problems when inserting or ejecting tapes. Remove or replace loose labels.



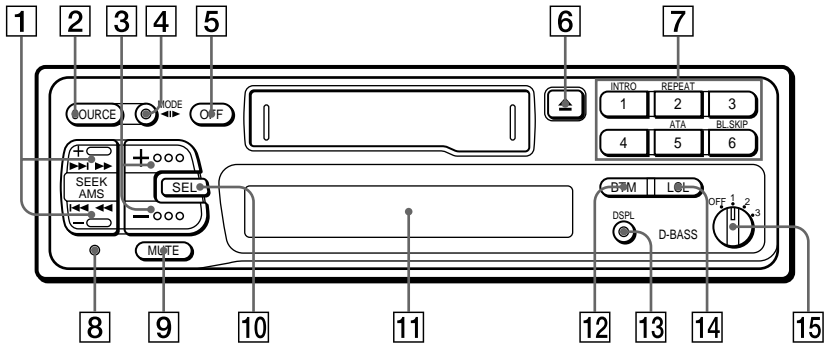
### Cassettes longer than 90 minutes

The use of cassettes longer than 90 minutes is not recommended except for long continuous play. The tapes used for these cassettes are very thin and tend to be stretched easily. Frequent playing and stopping of these tapes may cause them to be pulled into the cassette deck mechanism.





# Location of controls



Refer to the pages for further details.

- 1 SEEK/AMS button 4, 5, 6
- 2 SOURCE button (TAPE/TUNER) 4, 5, 6
- 3 + - (volume/bass/treble/balance/fader control) button 3, 7
- 4 MODE (◀▶) button
  - During tuner reception:
    - BAND select 5, 6
  - During tape playback:
    - Transport direction change 4
- 5 OFF button 4
- 6 ▲ (eject) button 4
- 7 During radio reception:
  - Preset number buttons 6
- During tape playback:
  - ① INTRO button 4
  - ② REPEAT button 4
  - ⑤ ATA (Automatic Tuner Activation) button 5
  - ⑥ BL.SKIP (Blank Skip) button 5

- 8 Reset button 3
  - Press this button when you use this unit for the first time, when you have changed the car battery, or when the buttons of this unit do not function properly.
- 9 MUTE button 7
- 10 SEL (control mode select) button 3, 7
- 11 Display window
- 12 BTM (Best tuning memory) button 5
- 13 DSPL (display mode change/time set) button 3, 4, 6
- 14 LCL button 6
- 15 D-BASS control 7

# Specifications

## Cassette player section

Tape track	4-track 2-channel stereo
Wow and flutter	0.08 % (WRMS)
Frequency response	30 – 20,000 Hz
Signal-to-noise ratio	58 dB

## Tuner section

### FM

Tuning range	FM tuning interval: 87.5 – 108.0 MHz (at 50 kHz step)
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	65 dB (stereo), 68 dB (mono)
Harmonic distortion at 1 kHz	0.5 % (stereo), 0.3 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	2 dB

### MW

Tuning range	MW tuning interval: 531 – 1,602kHz (at 9 kHz step)
Antenna terminal	External antenna connector
Intermediate frequency	10.71 MHz/450kHz
Sensitivity	30 $\mu$ V

### SW

Tuning range	SW tuning interval: SW1: 2,940 – 7,735kHz SW2: 9,500 – 18,135kHz (except for 10,140 – 11,575kHz)
Antenna terminal	External antenna connector
Intermediate frequency	10.71 MHz/450kHz
Sensitivity	30 $\mu$ V

## Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	35 W $\times$ 4 (at 4 ohms)

## General

Outputs	Power antenna control lead Power amplifier control lead
Tone controls	Bass $\pm$ 8 dB at 100 Hz Treble $\pm$ 8 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 188 $\times$ 58 $\times$ 182 mm (w/h/d)
Mounting dimensions	Approx. 182 $\times$ 53 $\times$ 161 mm (w/h/d)
Mass	Approx. 1.2 kg
Supplied accessories	Parts for installation and connections (1 set)

*Design and specifications are subject to change without notice.*

# Troubleshooting guide

The following checklist will assist in the correction of most problems you may encounter with your unit.

Before going through the checklist below, refer to the operating procedures.

## General

Problem	Cause/Solution
No sound.	<ul style="list-style-type: none"><li>• Adjust the volume with (+).</li><li>• Set the fader control to the center position for 2-speaker systems.</li></ul>
No beep tone.	<ul style="list-style-type: none"><li>• An optional power amplifier is connected and you are not using the built-in amplifier.</li><li>• The beep tone is muted.</li></ul>

## Tape playback

Problem	Cause/Solution
Playback sound is distorted.	Contamination of the tape head. → Clean the head.
The AMS does not operate correctly.	<ul style="list-style-type: none"><li>• There is noise in the space between tracks.</li><li>• A blank space is too short (less than four seconds).</li><li>• ►► on (SEEK/AMS) is pressed immediately before the following track.</li><li>• ◀◀ on (SEEK/AMS) is pressed immediately after the track starts.</li><li>• A long pause, or a passage of low frequencies or very low sound level is treated as a blank space.</li></ul>

## Radio reception

Problem	Cause/Solution
Preset tuning is not possible.	<ul style="list-style-type: none"><li>• Store the correct frequency.</li><li>• The broadcast is too weak.</li></ul>
Automatic tuning is not possible.	The broadcast is too weak. → Use manual tuning.

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