

aiwa

COMPACT
disc
DIGITAL AUDIO

**OPERATING INSTRUCTIONS
MANUAL DE INSTRUCCIONES
MODE D'EMPLOI**

CT-X432M YU

**STEREO CAR CASSETTE RECEIVER
RADIO-CASSETTE ESTEREOFONICO PARA AUTOMOVIL**

ENGLISH

ESPAÑOL

FRANÇAIS

OWNER'S RECORD

For your convenience, record the model number and serial number (you will find them on the bottom side of your set) in the space provided below. Please refer to them when you contact your AIWA dealer in case of difficulty.

Model No.

Serial No.

8C-KTF-901-01
011130ATM-OX

PRECAUTIONS

- Use only in a 12-volt DC negative-ground electrical system.
- Disconnect the vehicle's negative battery terminal while mounting and connecting the unit.
- When replacing the fuse, be sure to use one with an identical amperage rating. Using a fuse with a higher amperage rating may cause serious damage to the unit.
- Keep screwdrivers, etc. and other metallic or magnetic objects away from the playback head.
- When your vehicle has been parked in direct sunlight resulting in a considerable rise in the temperature inside, allow the unit to cool off before operating it.
- Keep the volume at a level at which you can hear outside warning sounds (horns, sirens, etc.).

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful 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 or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Modifications or adjustments to this product, which are not expressly approved by the manufacturer, may void the user's right or authority to operate this product.

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Note

Some buttons are assigned two or more functions. For detailed descriptions, refer to the related pages.

Notes on cassettes

Do NOT expose cassettes to direct sunlight, extremely high or cold temperature or moisture.

Keep cassettes away from equipment with built-in magnets to avoid unwanted noise or loss of sound quality.

Do NOT touch the tape of a cassette, as any dirt or dust will contaminate the heads.

Be sure to remove any cassette from the unit if you are not using it.

DEMO (Demonstration) mode

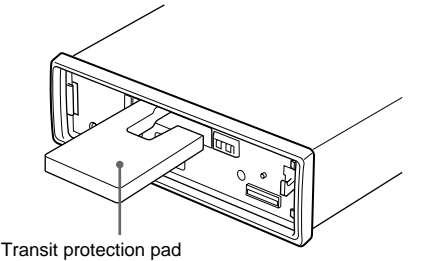
The unit has an extra display (DEMO) mode which demonstrates the operation modes of the unit. The unit switches to DEMO mode automatically if you turn the unit on and leave it as it is for 5 seconds after all the connections have been completed.

To cancel DEMO mode

- 1 During DEMO mode, press and hold **SRC** until "CONT." appears in the display.
 - 2 Press **▲** or **▼** to select "DEMO."
 - 3 Turn **AUDIO CONTROL** to select "DEMO OFF."
- To resume DEMO mode, select "DEMO ON" in step 3.

Caution on the transit protection pad

Be sure to remove the pad before operating the unit.



Transit protection pad

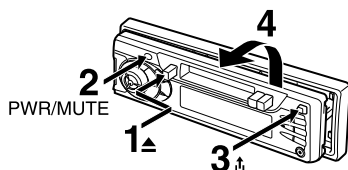
THEFT PROTECTION

Take the front panel with you when leaving the car, and keep it in the supplied carrying case.

Detaching the front panel

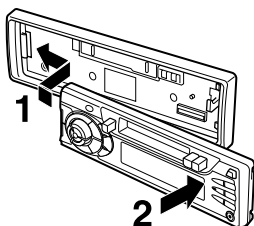
Before detaching the front panel, remove the cassette to prevent possible damage to the unit.

- 1 Press **▲** to remove the cassette.
- 2 Press and hold **PWR/MUTE** until the unit turns off.
- 3 Press **⏏**. (Hold the panel with one hand to prevent accidentally dropping it.)
- 4 Remove the panel.



Attaching the front panel

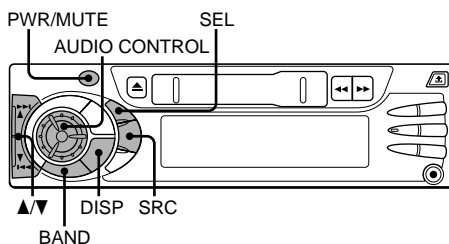
- 1 Engage the left side of the front panel to the left catch on the unit.
- 2 Push the panel forward until it locks. Be sure not to press any buttons while you are attaching the panel.



Note

Do not touch the connector on the reverse side of the front panel. This could cause a poor or faulty connection.

BASIC OPERATION, AUDIO AND CLOCK ADJUSTMENT



Turning the unit on/off

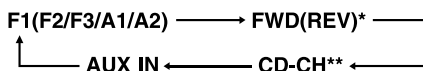
- You can turn the unit on by pressing any button on the front panel except **⏏**, **▲**, **◀▶**, and **AUDIO CONTROL**. The unit also turns on when you insert a cassette.
- Press and hold **PWR/MUTE** until the unit turns off.

Note

Most operations described in this manual require the unit to be turned on before starting the operation, unless explicitly stated otherwise.

Changing the source mode

- 1 Press **SRC**. Pressing **SRC** cycles through source modes in the following order:

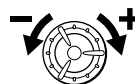


* Tape Play mode (available while a cassette is in the unit)

** CD Changer Play mode (available when an optional CD Changer is connected)

Adjusting the volume

- 1 Turn **AUDIO CONTROL**. VOL (volume) indicator flashes.



Muting the sound

- 1 Press **PWR/MUTE** briefly. MT indicator flashes.

To restore volume, briefly press **PWR/MUTE** again.

Adjusting sound

You can select the following modes for adjusting sound depending on the music you listen to: BASS (low frequencies), TRE (high frequencies), BAL (left/right), FAD (front/rear) and H-BASS (high bass).

- 1 Press **SEL** repeatedly to select the mode to be adjusted.
Pressing **SEL** cycles through the modes. The selected mode's indicator flashes (except for H-BASS).
- 2 Turn **AUDIO CONTROL** to increase or decrease the level for the selected mode (except for H-BASS).
In H-BASS mode, turn **AUDIO CONTROL** to select 1, 2, 3 or off.

Note

Adjust the level or select on/off within 5 seconds, or the selected mode will return to previous state.

Aligning the source levels

(Source Level Adjuster)

Volume may vary each time you change the source mode. In this case, you can align each source mode's volume to almost the same level.

- 1 Press **SRC** or **BAND** repeatedly to select the desired mode.
- 2 Press **DISP** while pressing **SEL**.
"LEVEL 0" appears in the display.
- 3 Turn **AUDIO CONTROL** to adjust the level.

Note

Adjust the level within 5 seconds, or the selected mode will be canceled.

Restoring the factory settings

- 1 Turn off the unit.
- 2 Press and hold **DISP** until "LEVEL --" appears in the display.

Note

You can restore the factory settings only for VOL, BASS, TRE, BAL, FAD, and H-BASS, and aligned source volume levels.

Muting button beep sounds

- 1 Turn off the unit.
- 2 Press and hold **SEL** until "BEEP" appears in the display.
- 3 Turn **AUDIO CONTROL** to select ON or OFF.
- 4 Press **SEL**.

Setting the clock

- 1 Press and hold **DISP** until the clock indicator flashes in the display.
- 2 Press **▲** (to set hour) or **▼** (to set minute), and then turn **AUDIO CONTROL**.
- 3 Press **DISP**.

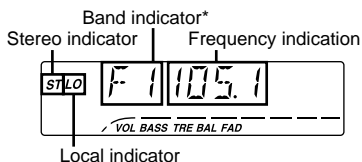
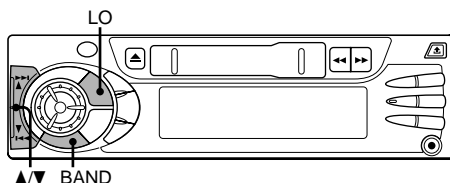
Displaying the clock

- 1 Press **DISP**.
To return to the former display, press **DISP** again.

RADIO OPERATION

Tuning in to a station

(Seek/Manual Tuning)



* "F" means FM, and "A" means AM.

- 1 Press **BAND** repeatedly to select the desired band (F1, F2, F3, A1, or A2).
- 2* Press **▲** (to move to higher frequencies) or **▼** (to move to lower frequencies) to tune in to a station. "ST" appears in the display when an FM station is broadcasting in stereo, and receiving conditions are good.

*Seek Tuning and Manual Tuning

- Press and hold **▲** or **▼** until Seek Tuning starts. The unit locates a station automatically (Seek Tuning).
- Press **▲** or **▼** repeatedly to search for a desired station while increasing or decreasing the frequency step by step (Manual Tuning).

To stop Seek Tuning, press **▲** or **▼** again.

Monaural mode

When FM signals become weak, or FM reception becomes poor, the unit automatically switches to Monaural mode to reduce noise.

Local mode

Local mode allows you to tune in only to strong stations during Seek Tuning.

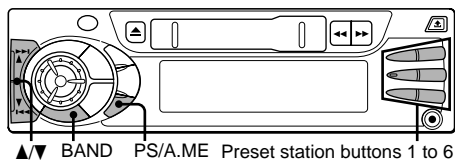
- 1 Press **LO** before you start Seek Tuning. "LO" appears in the display.

To return to Distant mode, press **LO** again.

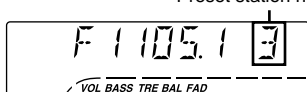
"LO" disappears and the unit tunes in to all receivable stations.

Using preset stations

You must preset stations before you can tune in to a station using preset station number buttons.



Preset station number



Presetting stations automatically

(Auto Memory)

- 1 Press **BAND** repeatedly to select the desired band (F1, F2, F3, A1, or A2).
- 2 Press and hold **PS/A.ME** until automatic presetting starts. The unit automatically stores up to 6 stations for each band. After completion of automatic presetting, the unit tunes in to all the stations stored on the preset station buttons in order (Preset Scan).

To cancel automatic presetting, press **PS/A.ME** again.

Checking the preset stations (Preset Scan)

- 1 Press **PS/A.ME** briefly. Each preset station will be tuned in for 5 seconds in order.

To cancel Preset Scan, press **PS/A.ME** again or any preset station button.

Presetting stations manually

(Manual Memory)

- 1 Press **BAND** repeatedly to select the desired band (F1, F2, F3, A1, or A2).
- 2 Press **▲** or **▼** to tune in to a desired station (see "Tuning in to a station" as well for another tuning method).
- 3 Press and hold the desired preset station button until the unit beeps.

Note

A newly preset station replaces the station on the same band that was previously stored on that preset station button.

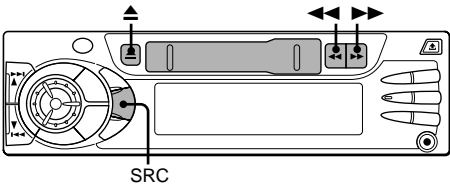
Tuning in to a preset station

- 1 Press **BAND** repeatedly to select the desired band (F1, F2, F3, A1, or A2).
- 2 Press the preset station button on which the desired station is stored.

Active tuning reception control (ATRC)

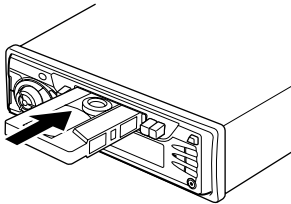
The unit automatically suppresses FM noise caused by vehicle movement, and maintains sound quality.

TAPE PLAYBACK



Playing a tape

- 1 Insert a cassette to start playback.



If a cassette is already inserted, press **SRC** repeatedly to select Tape Play mode to start playback. Playback starts in the direction that the unit played back previously.

Press the following buttons to operate tape transport.

To	Press
Eject a cassette*	
Change the playback side	and simultaneously
Fast-forward the upper side () of the tape Rewind the lower side () of the tape	
Rewind the upper side () of the tape Fast-forward the lower side () of the tape	
Stop fast transport and resume playback	or lightly**

* When you eject the cassette, the unit switches to the previous mode.

** Do not press or all the way. Doing so may change the direction of tape transport.

Auto Reverse function

When the end of the tape is reached during playback or fast tape transport, the direction of the tape is automatically reversed, and playback starts on the other side.

Direction indications

	Displayed when the upper side of the cassette is being played.
	Displayed when the lower side of the cassette is being played.

Tape transport display

Upper side: During playback	
Lower side: During playback	

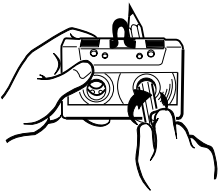
When you do not play back a tape

Be sure to eject any cassette.

To prevent tape problems

Before inserting a cassette into the unit, make sure that there is no slack in the tape. If necessary, take up the slack by inserting a pencil through the spindle hole and winding.

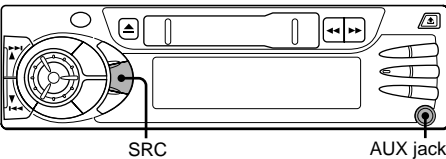
Tapes of 90 minutes or longer are extremely thin and easily deformed or damaged. They are not recommended.



AUXILIARY EQUIPMENT

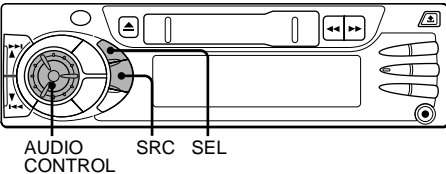
Listening to a CD/MD/MP3 portable player or other equipment

You can listen to equipment connected to the unit. Refer to the operating instructions for the corresponding equipment for more detailed information.
Be sure to remove the inserted cassette to prevent possible damage to the unit before connecting the equipment.



- 1 Connect a CD/MD/MP3 portable player or other equipment to the unit's AUX jack (3.5-mm dia.).
- 2 Press **SRC** repeatedly until "AUX IN" appears in the display.

OTHER FUNCTIONS



Changing the contrast of the display

- 1 Press and hold **SRC** until "CONT." appears in the display.
- 2 Turn **AUDIO CONTROL** to select L (for low) or H (for high).

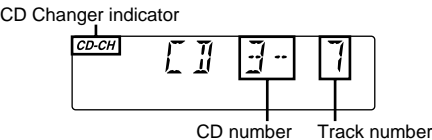
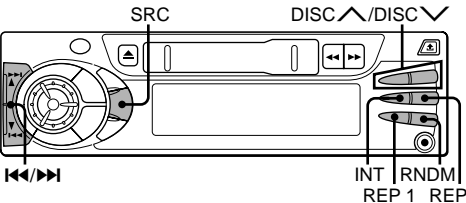
Setting the dimmer of the display

- 1 Press and hold **SEL** until "DIMMER" appears in the display.
- 2 Turn **AUDIO CONTROL** to select "DIMMER 0 (bright)" or "DIMMER 1 (dimmed)."

CD CHANGER OPERATION

Playing a CD

You can play CDs from a connected AIWA CD Changer. For detailed information on installing a CD Changer, refer to the Installation and Connection manual supplied with the CD Changer.



- 1 Press **SRC** repeatedly to display "CD-CH." The CD Changer play starts.

To	Press
Skip to the next track	▶▶
Skip back to the beginning of the current track or to the previous track	◀◀
Advance rapidly to locate a desired point	and hold ▶▶, then release it at the desired point
Reverse rapidly to locate a desired point	and hold ◀◀, then release it at the desired point
Start CD Changer play from the first track on the next disc	DISC ^
Start CD Changer play from the first track on the previous disc	DISC v

Intro Play

You can locate a desired track by monitoring the first 10 seconds of all the tracks on the CDs in the disc magazine.

- 1 Press **INT** during CD Changer play.
"SCAN" flashes in the display.
- 2 Press **INT** again when the desired track is played.
The unit returns to normal CD play.

One track Repeat Play

You can play a track repeatedly.

- 1 Press **REP1** during CD Changer play.
"REPEAT1" appears in the display.

To cancel Repeat Play, press **REP1** again.

One disc Repeat Play

You can play all tracks on a disc repeatedly.

- 1 Press **REP** during CD Changer play.
"REPEAT" appears in the display.

To cancel Repeat Play, press **REP** again.

One disc Random Play

You can play all the tracks on a disc in random order.

- 1 Press **RNDM** during CD Changer play.
"RANDOM" appears in the display.

To cancel Random Play, press **RNDM** again.

Note

Pressing **II◀** during Random Play locates the beginning of the current track. The unit does not retrieve previous tracks during Random Play.

TROUBLESHOOTING

Error code (when using the optional AIWA CD Changer)

In the following cases the corresponding error code indication appears. Follow the suggestions below to solve the problem. If the error code indication does not disappear, consult an AIWA service center.

ERROR01 The disc magazine is not properly inserted in the CD Changer. Reinsert the magazine. Refer to the instruction manual for the CD Changer.

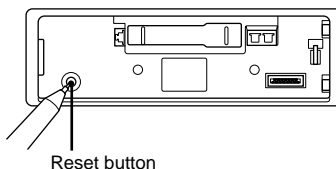
ERROR02 No CDs are loaded in the disc magazine. Insert CDs properly. Refer to the instruction manual for the CD Changer.

ERROR03 Focus error. Check that the discs are loaded properly in the disc magazine (right side up, etc.).

ERROR04 Problem with the CD Changer. Reset the unit by pressing the reset button. If this does not solve the problem, consult an AIWA service center.

Reset button

If a CD Changer does not operate properly, press the reset button with a pointed object such as a pencil, etc. Note that all your settings will be erased if this button is pressed.



MAINTENANCE

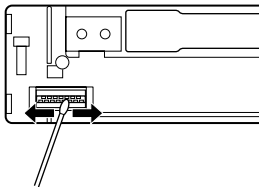
Cleaning the front panel

Wipe the surface with a soft, dry cloth.

Cleaning the connector

The connector needs to be cleaned occasionally. Wipe the surface of the connector with a cotton swab slightly moistened with alcohol.

Back of the front panel



SPECIFICATIONS

RADIO SECTION

(FM)

Frequency Range: 87.5 MHz – 108 MHz

Usable Sensitivity: 12.7 dBf

50 dB Quieting Sensitivity: 17.2 dBf

IF Rejection: 100 dB

Frequency Response: 30 Hz – 15,000 Hz

S/N Ratio: 70 dB

Stereo Separation: 35 dB at 1 kHz

Alternate Channel Selectivity: 90 dB

Capture Ratio: 3 dB

(AM)

Frequency Range: 530 kHz – 1,710 kHz

Usable Sensitivity: 30 μ V (30 dB)

TAPE SECTION

Tape Speed: 4.8 cm/sec. (1 $\frac{7}{8}$ ips)

S/N Ratio: 50 dB

Frequency Response: 40 Hz – 14,000 Hz

Stereo Separation: 40 dB

AUDIO SECTION

Max. Power Output: 40 W \times 4 channels

AUX input

Input sensitivity (load impedance) AUX: 300 mV (10 k Ω)

GENERAL

Power-Supply Voltage: 14.4 V (11 to 16 V allowable), DC, negative ground

Load Impedance: 4 Ω

Tone Control: Bass \pm 10 dB at 100 Hz, Treble \pm 10 dB at 10 kHz

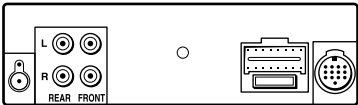
Preamp Output Voltage (load impedance): 2.2 V (10 k Ω)

Installed size: 182 (W) \times 53 (H) \times 155 (D) mm (7 $\frac{1}{4}$ (W) \times 2 $\frac{1}{8}$ (H) \times 6 $\frac{1}{8}$ (D) inches)

Supplied Accessory: Carrying case (1)

- Specifications and external appearance are subject to change without notice due to product improvement.

REAR PANEL



For details, refer to the separate "INSTALLATION AND CONNECTIONS".

