

Clarion®

Owner's manual
Mode d'emploi
Manual de instrucciones

INFORMATION FOR USERS:
CHANGES OR MODIFICATIONS TO THIS PRODUCT NOT APPROVED BY THE MANUFACTURER WILL VOID THE WARRANTY AND WILL VIOLATE FCC APPROVAL.

1. FEATURES

- DIN Chassis with Detachable Control Panel
- Z-Enhancer, 3 Mode Sound Selector
- **MAGI-TUNE®** FM Reception System
- AM/FM Bands-1 AM, 3 FM/18 FM/6 AM Touchbutton Memory
- Full Logic Tape Transport with True Function
- Auto Reverse with Dual Azimuth Adjust
- Auto Metal
- Bass Control Center Frequency: 30 Hz/Boost Level: ±15 dB
- 2-Channel RCA Line Level Output with Fader Control
- 140 W (35 W × 4) Maximum Power Output
- IR-Remote Controller Capability

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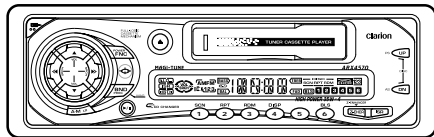
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ARX4570

AM/FM CASSETTE
WITH CD/MD CHANGER CONTROL

RADIO AM/FM-LECTEUR CASSETTE
AVEC PILOTAGE DE CHANGEUR CD/MD

RADIOCASSETTE AM/FM
CON CONTROL DE CAMBIADOR DE CD/MD

Clarion Co., Ltd.

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**PE-1652B
280-7282-00**

1999/1 (S-C)

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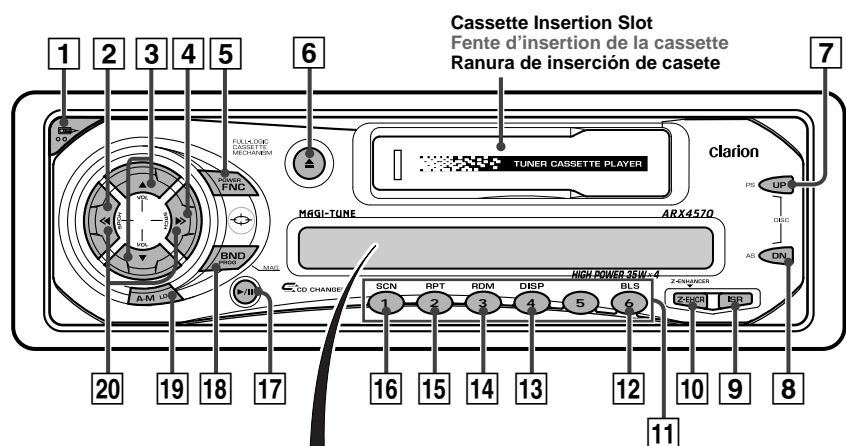
2. CONTROLS / COMMANDES / CONTROLES

Note: Be sure to unfold this page and refer to the front diagrams as you read each chapter.

Remarque: Veuillez déployer cette page et vous référer aux schémas quand vous lisez chaque chapitre.

Nota: Cuando lea los capítulos, despliegue esta página y consulte los diagramas.

SOURCE UNIT / APPAREIL PILOTE / UNIDAD FUENTE



DISPLAY AFFICHEUR VISUALIZADOR




3. CASSETTE PRECAUTIONS AND CARE

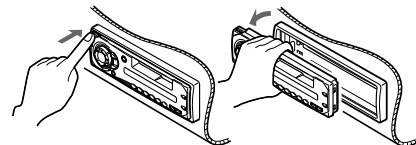
1. Tape slack can lead to operating difficulties. Remove tape slack before inserting a cassette, particularly when using C-90 or prerecorded cassettes.
2. Use C-30 to C-90 cassettes. Avoid use of C-120 or longer cassettes (The very thin tape may stretch or break).
3. Clean the head periodically with a good commercial head cleaner. Avoid touching the head with magnetic or hard objects.
4. Do not oil the cassette mechanism.
5. Always remove the cassette from the mechanism when not in use. Exposure to direct sunlight, extreme temperatures or high humidity may damage cassettes.
6. The cassette tape will automatically eject from the mechanism if it is damaged. Always ensure that cassette tapes are in good condition prior to use.

4. DCP (Detachable Control Panel)

The control panel can be detached to prevent theft. When detaching the control panel, store it in the included DCP case to prevent scratches. We recommend taking the control panel with you when leaving the car.

Removing the DCP

1. Turn off the power.
2. Press the DCP Release button .



* The DCP is unlocked.

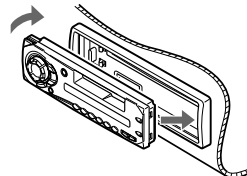
3. Remove the DCP.

Attaching the DCP

Insert the DCP into the right side of the source unit and press the left side to lock it.

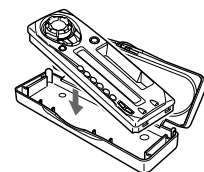
CAUTION

Do not insert the DCP from the left side. Doing so may damage it.



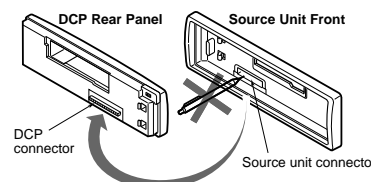
Storing the DCP in the DCP Case

Hold the DCP, in the orientation as shown in the figure below, and put it into the supplied DCP case. (Ensure the DCP is in the correct orientation.)



CAUTION

- The DCP can easily be damaged by shocks. After removing it, place it in its case and be careful not to drop it or subject it to strong shocks.
- When the release button is pressed and the DCP is unlocked, the car's vibrations may cause it to fall. To prevent damage to the DCP, always store it in its case after detaching it.
- The connector connecting the source unit and the DCP is an extremely important part. Be careful not to damage it by pressing on it with fingernails, pens, screwdrivers, etc.



Note:

- If the DCP is dirty, wipe off with a soft, dry cloth.

9. ESPECIFICACIONES

Sintonizador FM

Margen de frecuencias
.....87,9 MHz a 107,9 MHz
Sensibilidad utilizable.....11 dBf
Sensibilidad de silenciamiento 50 dB
.....17 dBf
Selectividad de canal alterno.....75 dB
Separación estereofónica (1 kHz).....35 dB
Respuesta en frecuencia (± 3 dB)
.....30 Hz a 15 kHz

Sintonizador AM

Margen de frecuencias
.....530 kHz a 1.710 kHz
Sensibilidad utilizable.....25 μ V

Cassette

Lloro y trémolo (WRMS).....0,06%
Separación de canales (1 kHz).....45 dB
Relación señal/ruido
.....70 μ s (CrO₂, FeCr, Metal):
58 dB
Respuesta en frecuencia (± 3 dB)
120 μ s (normal).....30 Hz a 18 kHz
70 μ s ((CrO₂, FeCr, Metal).....30 Hz a 20 kHz

Amplificador de Potencia

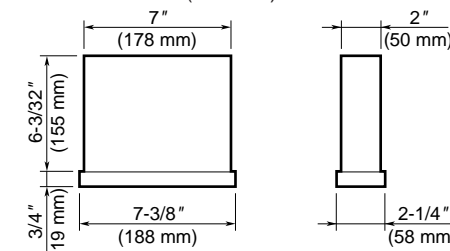
Potencia máxima.....140 W (35 W \times 4 canales)
Potencia media continua
.....14 W \times 4, en 4 Ω , 20 Hz a 20 kHz, 1% THD

Preamplificador

Acción de control de bajos (30 Hz)..... ± 15 dB
Acción de control de agudos (10 kHz)..... ± 10 dB
Salida de línea (con CA, 1 kHz, 10 K Ω)...0,7 V

General

Tensión de alimentación
.....14,4 V CC (10,8 a 15,6 V permisible)
Consumo.....Menos de 10 A
Impedancia del altavoz
.....4 Ω (4 Ω a 8 Ω permisible)
Peso.....3,52 lb. (1,6 kg)
Dimensiones
.....7" (178 mm) Ancho \times 2" (50 mm) Alto \times
6-3/32" (155 mm) Profundo


































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
- Las especificaciones se adecúan a las normas EIA.
- Con el propósito de introducir mejoras, las especificaciones y el diseño del producto están sujetos a cambios sin previo aviso.

5. BUTTON TERMINOLOGY

Note:

- Be sure to read this chapter referring to the front diagrams of chapter 2. CONTROLS on page 3 (unfold).

- 1 DCP Release Button
- 2 SEEK DN. Fast Rewinding [
- 3 Up and Down (▲ and ▼) Buttons
- 4 SEEK UP. Fast Forwarding [
- 5 POWER Button
FNC (Function) Button
- 6 EJECT (▲) Button [
- 7 PS (Preset Station Scan) Button [
- DISC Up (UP) Button [, [
- 8 AS (Automatic Station Store) Button [
- DISC Down (DN) Button [, [
- 9 ISR (Instant Station Recall) Button [
- 10 Z-EHCR (z-enhancer) button [, [, [, [
- 11 Preset Buttons [
- 12 BLS (Blank Skip) Button [
- 13 DISP (Display Selector) Button
- 14 RDM (Random) Button [, [
- 15 RPT (Repeat Play) Button [, [, [
- 16 SCN (Intro Music Scan) Button [, [, [
- 17 Mute Button [
- Play/Pause (▶/II) Button [, [, [
- 18 PROG (Program) Button [
- BND (Tuning Mode) Button [
- MAG (Magazine) Button [
- 19 A-M (Audio Mode) Button
LD (Loudness) Button
- 20 Left and Right (◀ and ▶) Buttons

[] : In the Radio Mode

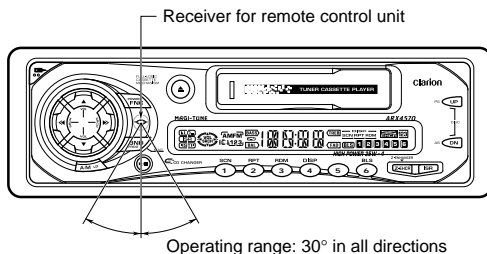
[] : In the Tape Mode

[] : In the CD Changer Mode

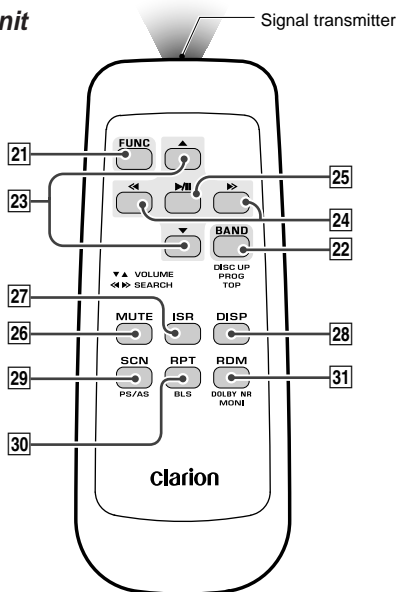
[] : In the MD Changer Mode

6. REMOTE CONTROL

If you buy the RCB-130-200, sold separately, you can enjoy the use of the remote control function.



Remote control unit



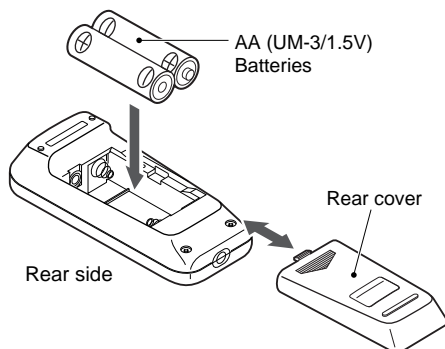
Inserting the Batteries

1. Turn the remote control unit over, then slide the rear cover in the direction of the arrow.
2. Insert the AA (UM-3/1.5V) batteries that came with the remote control unit facing in the directions shown in the figure, then close the rear cover.

Notes:

Using batteries improperly can cause them to explode. Take note of the following points:

- When replacing batteries, replace both batteries with new ones.
- Do not short-circuit, disassemble or heat batteries.
- Do not dispose of batteries into fire or flames.
- Dispose of spent batteries properly.



Functions of Remote Control Unit Buttons

Button \ Mode	Radio	Tape	CD changer MD changer
[21] FUNC	Turns power on and off. When pressed and held for 1 second: Turns power off. Switches between radio, Tape, CD changer and MD changer.		
[22] BAND DISC UP PROG TOP	Switches reception band.	Switches the side of the tape.	Moves the next disc in increasing order.
[23] VOLUME	Increases and decreases volume (in all modes).		
[24] SEARCH	Moves preset channels up and down.	Fast-forward and rewinds tape. APC fast-forward and rewind.	Moves tracks up and down. When pressed and held for 1 second: Fast-forward/ fast-backward.
[25] PLAY/PAUSE	No function.	Switches between playback and pause.	Switches between playback and pause.
[26] MUTE	Turns mute on and off.		
[27] ISR	Recalls ISR radio station in memory. Press and hold for more than 2 seconds: Stores current station into ISR memory (radio mode only).		
[28] DISP	Switches among main display, sub display and clock display.		
[29] SCAN PS/AS	Preset scan. When pressed and held for 2 seconds: Auto store.	Fast-forward scan.	Scan play. When pressed and held for 2 seconds: Disc scan play.
[30] RPT BLS	No function.	Repeat play. When pressed and held for 1 second: Blank tape skip function turns on and off.	Repeat play. When pressed and held for 2 seconds: Disc repeat play.
[31] RDM	No function.	No function.	Random play. When pressed and held for 2 seconds: Disc random play.

* Some of the corresponding buttons on the source unit and remote control unit have different functions.

7. OPERATION

Note:

- Be sure to read this chapter referring to the front diagrams of chapter 2. CONTROLS on page 3 (unfold).

Basic Operation

⚠ CAUTION

When this unit is turned on, starting and stopping the engine of a car with its volume raised to the maximum level may harm your hearing. Be careful about adjusting the volume.

- 1) Press the POWER button [5].
 - * To turn the power off, press the POWER button for at least 1 second.
- 2) Press the FNC button [5] to select the operation mode. The mode switches as follows each time the FUNC button is pressed:
Radio → Tape → CD changer → MD changer → Radio
 - * If a component is not connected, that operation mode cannot be selected.
 - * "CASS" appears when no tape is loaded in the ARX4570, and "DISC" appears when no disc is loaded in the CD changer and MD changer.
- 3) Use the Up and Down buttons [3] to adjust the volume.
 - ▲ : Increases the volume.
 - ▼ : Decreases the volume.

Audio Mode Adjustments

- 1) Press the A-M button [19] to select the adjustment mode. The mode switches as follows each time the A-M button is pressed:
BASS/TREB → BAL/FAD → Previous mode
- 2) Use the Left and Right and the Up and Down buttons [3], [20] to adjust the bass and treble.
 - <Adjusting the bass>
 - ▶▶ : Bass gets stronger.
 - ◀◀ : Bass gets weaker.
 - <Adjusting the treble>
 - ▲ : Treble gets stronger.
 - ▼ : Treble gets weaker.
- 3) Use the Left and Right and the Up and Down buttons [3], [20] to adjust the balance and fader.
 - <Adjusting the balance>
 - ▶▶ : Sound from right speakers gets stronger.
 - ◀◀ : Sound from left speakers gets stronger.
 - <Adjusting the fader>
 - ▲ : Sound from front speakers gets stronger.
 - ▼ : Sound from rear speakers gets stronger.

Setting the Z-enhancer

This unit comes with three types of sound tone effects stored in memory. Select the one you prefer.

- * The factory default setting is "Z-EHCR OFF".

Each time you press Z-EHCR button [10], the tone effect changes in the following order.

"Z-ENHANCER 1" → "Z-ENHANCER 2" →
"Z-ENHANCER 3" → "Z-EHCR OFF" →
"Z-ENHANCER 1"...

- Z-ENHANCER 1: bass emphasized
- Z-ENHANCER 2: treble emphasized
- Z-ENHANCER 3: bass and treble emphasized
- Z-EHCR OFF: no sound effect

Loudness Function

Press the LD button [19] for at least 2 seconds to turn the loudness function on and off.

Switching the Display

While pressing the BND button [18], press the DISP button [13] to enter the clock display mode. Operation mode display → Clock display → Operation mode display

Setting the Clock

- 1) While pressing the BND button [18], press the DISP button [13] to enter the clock display mode.
- 2) While pressing the BND button [18], press the DISP button [13] for 2 seconds or more. This enables clock editing.
 - * The editable fields will be indicated by flash.
- 3) To move between the hour and minute fields, use the Left (hour) and Right (minute) buttons [20].
- 4) To confirm the clock setting, press the BND button [18].

Notes:

- If you select another operation mode before completing the above procedure, the clock setting operation will be canceled.
- Removing the battery for a check or repair causes the clock to be reset. Set the clock again in such a case.

Tape Operation

Loading Tapes

Insert the cassette tape into the Cassette insertion slot with the side on which the tape is exposed facing the right. Playback starts automatically.

- * The metal tape setting is set automatically when a metal or chrome tape is loaded.
- * When the end of the cassette tape is reached, the auto reverse mechanism is activated and the other side of the tape begins playing automatically.

Listening to a tape which is already loaded

Press the FNC button [5] to select the tape mode. Playback begins automatically.

- * It is possible to listen to the radio during fast-forward, rewind or search operations.

Once the operation is complete, tape playback resumes (Monitor).

Stopping Playback Temporarily

Press the Play/Pause button [17]. Press the button again to resume playback.

Ejecting Cassette Tapes

Press the Eject button [6]. The cassette tape is ejected.

- * The radio mode is set automatically 4 seconds after the eject button is pressed.

Fast-Forwarding and Rewinding

Use the Left and Right buttons [20].

- ▶▶: Press this to fast-forward the tape.
- ◀◀: Press this to rewind the tape.

APC (Auto Program Control)

Press the Left or Right button [20] twice.

- ▶▶: Press this twice to move ahead to the beginning of the next selection.
- ◀◀: Press this twice to move back to the beginning of the current selection.

Switching to the Other Side of the Tape

Press the PROG button [18]. Playback is switched to the other side of the cassette tape.

FF Scan Function (Intro Music Scan)

When the SCN button [16] is pressed, "SCN" appears on the display, and the first 10 seconds of all the tracks on the cassette tape are played. Press the SCN button again to stop scanning.

Repeat Function (Repeat Play)

When the RPT button [15] is pressed, "RPT" appears on the display and the current track is played repeatedly. Press the RPT button again to cancel the repeat mode.

Blank Skip Function

Use this function to automatically skip to the beginning of the next recorded section when there is a blank section of 12 seconds or more on the tape.

When the BLS button [12] is pressed, the blank skip mode is set and "BLS" appears on the display. Press the BLS button [12] again to cancel the blank skip mode.

Notes:

The APC, scan, repeat and blank skip functions will not work with the following types of tapes:

- Tapes on which the recording level is low
- Tapes on which there is less than 4 seconds of blank space between selections
- Tapes on which there are long pauses in the middle of selections
- Tapes on which there is much noise between selections

Radio Operation

FM Reception

For enhanced FM performance the **MAGI-TUNE®** tuner includes signal actuated stereo control and Multipath noise reduction circuits.

Listening to the Radio

- 1) Press the FNC button [5] and select the radio mode. The radio turns on.
- 2) To tune in a preset station, first press the BND button [18] and select FM1, FM2, FM3 or AM.
The band changes as follows each time the BND button is pressed:
FM1 → FM2 → FM3 → AM → FM1
- 3) Use the Preset buttons [11] to select the desired station.

Seek Tuning

- 1) Press the BND button [18] and select the desired band.
- 2) The seek tuning mode is set when "SRCH" is lit on the display.
- 3) Press the Left or Right button [20]. Seek tuning automatically stops when a station is found.

Manual Tuning

- 1) Press the BND button [18] and select the desired band.
- 2) Press the BND button again for more than 2 seconds. "SRCH" turns off and the manual tuning mode is set.
- 3) Use the Left and Right buttons [20] to tune in the desired frequency.

Presetting Stations

A total of 24 stations can be preset, 6 each for the FM1, FM2, FM3 and AM bands.

Note:

- When a station is preset, the station previously stored in the memory at that position is cleared.

Presetting stations manually

- 1) Press the BND button [18] to select the band at which to store the station.
- 2) Use the Left and Right buttons [20] to tune in the station to be preset.
- 3) Press the Preset button [11] at which you want to store that station for at least 2 seconds.

Auto store function (Automatic Station Store)

- 1) Press the BND button [18] to select the band at which to store the stations.
- 2) Press the AS button [8]. Stations with good reception are automatically stored at Preset buttons [11] 1 to 6.
* If there are fewer than 6 stations with good reception, the stations previously stored at the remaining buttons are not cleared.

Preset Scanning (Preset Station Scan)

When the PS button [7] is pressed, the preset memory numbers flash and the stations are tuned in for 7 seconds each in the order in which they were stored. Press the PS button again to cancel the preset scanning mode.

Instant Station Recall (ISR) Function

This function allows you to recall a specific radio station from any mode. Use it to find stations quickly when you want to hear specific information (such as traffic announcements) while driving. The ISR station is set to 87.9 MHz upon shipment from the factory.

Setting the ISR station

- 1) Press the FNC button [5] to select the radio mode.
- 2) Tune in the station to be set as the ISR station.
- 3) Press the ISR button [9] for more than 2 seconds to store that station in the memory as the ISR station.

Recalling the ISR station

Press the ISR button [9] from any mode. "ISR" appears on the display and the set station is tuned in. To cancel, press the ISR button again.

Area Change Function

Use this to listen to the radio outside of the United States.

Switchable frequency spacing

This car stereo is initially set to tune in frequency intervals of 10 kHz for AM and 200 kHz for FM, the standard calibrations in the U.S. When using the unit outside the U.S., use the following procedure to switch the frequency steps and frequency range:

- 1) Turn the power on and set the tuner mode.
- 2) Keep the BND button [18] pressed and while pressing the button, press the RPT button [15].
- 3) Release the buttons.

This procedure changes the factory setting to 9 kHz steps for AM and 50 kHz steps for FM, the standard calibrations for countries other than the U.S.

To change the AM/FM setting back to the U.S. standard frequencies:

- 1) Set the tuner mode.
- 2) While pressing the BND button [18], press the RDM button [14].
- 3) Release the buttons.
Your car stereo will once again be calibrated to receive standard U.S. transmissions.

The chart below lists the frequency specifications for the U.S. and other countries.

		Initial Setting (U.S. standard)	New Setting (outside U.S.)
AM	Frequency spacing	10 kHz	9 kHz
	Frequency range	530 to 1710 kHz	531 to 1629 kHz
FM	Frequency spacing	200 kHz	50 kHz
	Frequency range	87.9 to 107.9 MHz	87.5 to 108 MHz

Mute

Use this function to turn off the sound immediately.

Press the MUTE button [17]. The sound turns off and "MUTE" appears on the display. Press the MUTE button again to cancel the mute mode.

CD Changer Operation

When a separately sold CD changer (CDC635/CDC1235) is connected, it can be controlled from the ARX4570.

CD-ROMs cannot be played.

Listening to the Disc

Press the FNC button [5] and select the CD changer mode, then the CD starts playing.

Stopping (pausing) Playback

Press the Play/Pause button [17].

Press the Play/Pause button [17] again to resume playback.

Selection of CDs

Press the DISC Up button [7] or the DISC Down button [8], then select the CD you wish to play.

UP: Every time you press the button, the CDs will be selected as:

1 → 2 → 3 → 4 → 5 → 6 → 1....

DN: Every time you press the button, the CDs will be selected as:

1 → 6 → 5 → 4 → 3 → 2 → 1....

Selecting Tracks (songs)

Press the Left and Right buttons [20].

▶▶: Playback will start from the next track.

◀◀: Playback will start from the beginning of the track currently playing. When this button is pressed again, the CD will play from the previous track.

Fast-Forward and Fast-Backward

Press and hold the Left and Right buttons [20].

▶▶: To fast-forward

◀◀: To fast-backward

* Pressing the Left / Right button for 1 second or longer will move forward or backward 5 times faster than normal play, and pressing it for 3 seconds or longer will do the operation 30 times faster.

Scan Play (Intro Music Scan)

Press the SCN button [16], then the display shows “**SCN**,” then the CD will play the first 10 seconds of each track of the whole disc. Press the SCN button [16] again to disengage the unit from scan play.

* A scan play will start from the track following the one currently playing.

Disc scan play

Press and hold the SCN button [16] for 2 seconds or longer, then the display will show “**DISC**” and “**SCN**,” and plays the first 10 seconds of all the tracks of all the CDs in the CD changer. Press the SCN button [16] again to disengage the unit from disc play.

* A scan play will start from the track following the one currently playing.

Repeat Play

Press the RPT button [15], then the display shows “**RPT**,” then the track currently playing will be played repeatedly. Press the RPT button [15] again to disengage the unit from repeat play.

Disc repeat play

Press and hold the RPT button [15] for 2 seconds or longer, then the display shows both the “**DISC**” and “**RPT**,” then the disc currently being played will be played repeatedly.

Press the RPT button [15] again to disengage the unit from disc repeat play.

Random Play

Press the RDM button [14], then the display will show “**RDM**,” then the entire tracks on the disc will be played at random.

Press the RDM button [14] again to disengage the unit from disc random play.

Disc random playback

Press and hold the RDM button [14] for 2 seconds or longer, then the display will show both the “**DISC**” and “**RDM**,” then the entire tracks of all the discs in the CD changer will be played at random.

Press the RDM button [14] again to disengage the unit from disc play.

Switching Magazine

This function can be used only when the connected CD changer can store a multiple number of magazines.

Every time the MAG button [18] is pressed, the next magazine will be selected.

Magazine lock

Press and hold the MAG button [18] for 2 seconds or longer, then the display shows “[Ⓢ],” then the magazine being displayed will be played.

Press and hold the MAG button [18] again for 2 seconds or longer to disengage the unit from the Magazine Lock function.

* While the magazine lock function is on, a new magazine can be selected. At that time, the new magazine will be locked.

Note:

- While the magazine lock function is on, the Scan Play function or Random Play function will be performed among the locked magazines.

MD Changer Operation

When a separately sold MD changer (MDC635) is connected, it can be controlled from the ARX4570.

Listening to the Disc

Press the FNC button [5] and select the MD changer mode, then the MD starts playing.

Stopping (pausing) Playback

Press the Play/Pause button [17].

Press the Play/Pause button [17] again to resume playback.

Selection of MDs

Press the DISC Up button [7] or the DISC Down button [8], then select the MD you wish to play.

UP: Every time you press the button, the MDs will be selected as:

1 → 2 → 3 → 4 → 5 → 6 → 1....

DN: Every time you press the button, the MDs will be selected as:

1 → 6 → 5 → 4 → 3 → 2 → 1....

Selecting Tracks (songs)

Press the Left and Right buttons [20].

▶▶ : Playback will start from the next track.

◀◀ : Playback will start from the beginning of the track currently playing. When this button is pressed again, the MD will play from the previous track.

Fast-Forward and Fast-Backward

Press and hold the Left and Right buttons [20].

▶▶ : To fast-forward

◀◀ : To fast-backward

* Pressing the Left / Right button for 1 second or longer will move forward or backward 5 times faster than normal play, and pressing it for 3 seconds or longer will do the operation 30 times faster.

Scan Play (Intro Music Scan)

Press the SCN button [16], then the display shows "SCN," then the MD will play the first 10 seconds of each track of the whole disc. Press the SCN button [16] again to disengage the unit from scan play.

* A scan play will start from the track following the one currently playing.

Disc scan play

Press and hold the SCN button [16] for 2 seconds or longer, then the display will show "DISC" and "SCN", and plays the first 10 seconds of all the tracks of all the MDs in the MD changer. Press the SCN button [16] again to disengage the unit from disc play.

* A scan play will start from the track following the one currently playing.

Repeat Play

Press the RPT button [15], then the display shows "RPT," then the track currently playing will be played repeatedly. Press the RPT button [15] again to disengage the unit from repeat play.

Disc repeat play

Press and hold the RPT button [15] for 2 seconds or longer, then the display shows both the "DISC" and "RPT," then the disc currently being played will be played repeatedly. Press the RPT button [15] again to disengage the unit from disc repeat play.

Random Play

Press the RDM button [14], then the display will show "RDM," then the entire tracks on the disc will be played at random. Press the RDM button [14] again to disengage the unit from disc random play.

Disc random playback

Press and hold the RDM button [14] for 2 seconds or longer, then the display will show both the "DISC" and "RDM," then the entire tracks of all the discs in the MD changer will be played at random. Press the RDM button [14] again to disengage the unit from disc play.

8. TROUBLESHOOTING

Problem	Cause	Measure
Power does not turn on. (or no sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage as the old fuse.
	Connections are improper.	Read the attached "Installation/Wire Connection Guide" once again and wire properly.
Sound quality is poor.	Playback head is dirty.	Use a cleaning tape, etc. to clean the head.
No sound while unit can be operated.	Power ANT lead is shorted to the ground.	Turn the unit off, first. Remove all connecting wires from the power ANT lead, and turn the unit on, then re-connect a wire one by one to the power ANT lead. When sound is muted again, check the unit with a wire connected last.

This unit is equipped with a number of self-diagnosis functions to protect the system. If a problem should occur, the user is warned through various error displays. Eliminate the problem using the procedures shown below.

Error Display	Procedure
Er H	This indicates that playback has been stopped automatically due to a rise in the temperature inside the CD/MD changer or a rise in the surrounding temperature. → The CD/MD changer mechanism is likely damaged. Contact your store of purchase.
Er 2	This indicates that a problem has occurred with the CD/MD changer's mechanism (disc cannot be changed or ejected, etc.). → The CD/MD changer mechanism is likely damaged. Contact your store of purchase.
Er 3	This indicates that the pickup is out of focus during playback due to scratches on the disc, etc.
Er 6	This indicates that the CD's and MD's TOC (table of contents) cannot be read, for example because the selected disc is upside-down.
Er 8	This is displayed if a cassette tape gets stuck during loading or ejecting. → Remove the cause for which the cassette tape got stuck.

If a display other than one of the displays above appears, press the reset button. If the problem persists, turn the power off and contact your store of purchase.

9. SPECIFICATIONS

FM Tuner

Frequency Range.....87.9 MHz to 107.9 MHz
 Usable Sensitivity.....11 dBf
 50 dB Quieting Sensitivity.....17 dBf
 Alternate Channel Selectivity.....75 dB
 Stereo Separation (1 kHz).....35 dB
 Frequency Response (± 3 dB)
30 Hz to 15 kHz

AM Tuner

Frequency Range.....530 kHz to 1,710 kHz
 Usable Sensitivity.....25 μ V

Tape

Wow & Flutter (WRMS).....0.06%
 Channel Separation (1 kHz).....45 dB
 Signal to Noise Ratio
70 μ s (CrO₂, FeCr, Metal):
 58 dB
 Frequency Response (± 3 dB)
 120 μ s (normal).....30 Hz to 18 kHz
 70 μ s (CrO₂, FeCr, Metal).....30 Hz to 20 kHz

Power Amplifier

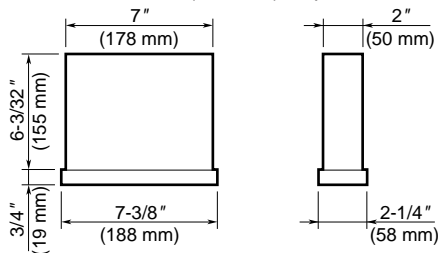
Maximum Power Output.....140 W (35 W \times 4ch)
 Continuous Average Power Output
14 W \times 4, into 4 Ω , 20 Hz to 20 kHz,
 1% THD

Pre-Amplifier

Bass Control Action (30 Hz)..... ± 15 dB
 Treble Control Action (10 kHz)..... ± 10 dB
 Line Output (with A/C 1 kHz, 10 k Ω).....0.7 V

General

Power Supply Voltage
14.4 V DC (10.8 V to 15.6 V allowable)
 Current Consumption..... Less than 10 A
 Speaker Impedance
4 Ω (4 Ω to 8 Ω allowable)
 Weight.....3.52 lb. (1.6 kg)
 Dimensions
7" (178 mm) Width \times 2" (50 mm) Height
 \times 6-3/32" (155 mm) Depth



Notes:

- Specifications comply with EIA Standards.
- Specifications and design are subject to change without notice for further improvement.

