



Owner's Manual
Guide de l'utilisateur
Benutzerhandbuch
Manuale dell'utente
Gebruikershandleiding
Manual del usuario
Käyttöopas
Bruksanvisning
Kullanıcı Kılavuzu

FZ102E

- **USB/MP3 RECEIVER**
AUTORADIO USB/MP3
USB-/MP3-RECEIVER
RICEVITORE USB/MP3
USB/MP3-RADIOCOMBINATIE
RECEPTOR DE USB Y MP3
USB/MP3-VASTAANOTIN
USB/MP3/RADIO
USB/MP3 ALICISI

- **USB/MP3/WMA RECEIVER**
AUTORADIO USB/MP3/WMA
USB-/MP3-/WMA-RECEIVER
RICEVITORE USB/MP3/WMA
USB/MP3/WMA-RADIOCOMBINATIE
RECEPTOR DE USB, MP3 Y WMA
USB/MP3/WMA-VASTAANOTIN
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USB/MP3/WMA ALICISI

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1. FEATURES

- MP3 compatible with ID3-TAG display
- WMA compatible with TAG display (optional)
- Front Panel 3.5mm Auxiliary Input
- USB slot on front panel
- High visibility single line display with clock



Be sure to unfold and read the next page.

Seite 2 ausfalten und die Informationen zu den Bedienelementen beachten.

Despliegue la página 2 para ver la página de controles.

Taita sivu 2, jotta voit lukea ohjaustoiminnot kuvaavan sivun.

Ne manquez pas de déplier la page 2 pour lire le contenu consacré aux commandes.

Assicurarsi di passare alla pagina 2 per leggere le informazioni relative ai Controlli.

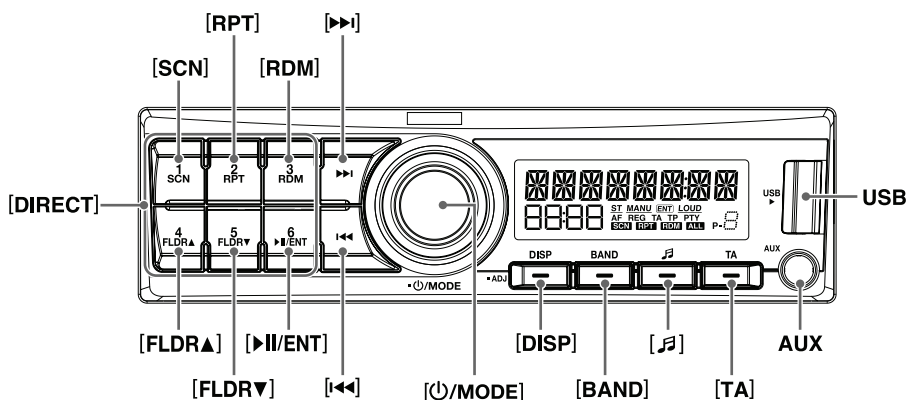
Vouw pagina 2 open om de pagina over de bediening te lezen.

Var noga med att veckla ut sidan 2 för att läsa sidan med information om kontrollerna.

Denetimler Sayfasını okumak için katlanmış sayfa 2'yi açtığınızdan emin olun.

2. CONTROLS, COMMANDES, BEDIENELEMENTE, COMANDI, BEDIENINGSELEMENTEN, CONTROLES, OHJAUSTOIMINNOT, KONTROLLER, DENETİMLER

MAIN UNIT, LECTEUR, STEUERGERÄT, UNITÀ PRINCIPALE, HOOFDEENHEID, UNIDAD PRINCIPAL, PÄÄYKSIKKÖ, HUVUDENHET, ANA ÜNİTE



Note:

- [TA] button will be disabled for non RDS model.

Remarque

- Le bouton [TA] sera désactivé pour le modèle qui ne prend pas en charge RDS.

Hinweis:

- Die Taste [TA] ist bei Modellen ohne RDS-Funktion deaktiviert.

Nota:

- Nei modelli non RDS, il pulsante [TA] viene disattivato.

Opmerking:

- De knop [TA] is uitgeschakeld bij andere dan RDS-modellen.

Nota:

- El botón [TA] (Información de tráfico) está desactivado en los modelos que no son RDS.

Huomautus:

- [TA]-painike ei ole käytössä muissa kuin RDS-malleissa.

Obs!

- [TA]-knappen är avaktiverad för icke RDS-modeller.

Not:

- RDS olmayan model için [TA] düğmesi devre dışı bırakılır.

3. PRECAUTIONS

CAUTION

- USE OF CONTROLS, ADJUSTMENTS, OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN, MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
- THE PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.
- THIS EQUIPMENT HAS DIFFERENT POWER SUPPLY (12V OR 24V) DEPENDS ON THE MODEL. PLEASE CHECK WITH YOUR SERVICE DEALER FOR THE CORRECT POWER SUPPLY IN THIS UNIT. INCORRECT POWER SUPPLY USAGE MAY RESULT THE EQUIPMENT PERMANENT UNUSABLE AND VOID THE WARRANTY.

INFORMATION FOR USERS:

CHANGES OR MODIFICATIONS TO THIS PRODUCT NOT APPROVED BY THE MANUFACTURER WILL VOID THE WARRANTY.

4. BASIC OPERATIONS

CAUTION

- Be sure to lower the volume before switching off the unit power or the ignition key. The unit remembers its last volume setting. If you switch the power off with the volume up, when you switch the power back on, the sudden loud volume may hurt your hearing and damage the unit.
- Be careful about using this unit for a long time without running the engine. If you drain the car's battery too far, you may not be able to start the engine and this can reduce the service life of the battery.

Power on/off

● Turn on the power

Push the [⏻/MODE] rotary knob during power off.

* The mode before turning off the power will be displayed.

● Turn Off The Power

Push longer the [⏻/MODE] rotary knob.

Source mode

● Turn On The Power

Push the [⏻/MODE] rotary knob to select the desired source.

Radio → USB → AUX → Radio...

Adjusting The Audio

● Adjusting The Volume

Adjust with the [⏻/MODE] rotary knob.

Range	Default settings
0 to 33	13

● Switching The Audio Mode

Adjust with the [⏻/MODE] rotary knob.

1. Press the [🎵] button to select the desired audio mode.
“BASS” → “TREB” → “BAL” → “FAD” → previous display
2. Adjust the audio mode with the [⏻/MODE] rotary knob.

Audio Mode	Range	Default settings
BASS (Bass)	-7 to +7	0
TREB (Treble)	-7 to +7	0
BAL (Balance)	L12 to R12	0 (CENTER)
FAD (Fader)	F12 to R12	0 (CENTER)

Note:

- Fader adjustment is not available in 24V power supply model.

● Setting The Loudness On/Off

1. Press longer the [🎵] button to activate/deactivate loudness effect.
* The factory default setting is “OFF”.
2. The loudness effect emphasizes the bass and treble to create a natural sound tone. When you are listening to music at low volume, it is recommended to use the loudness effect. The loudness effect will depend on volume level.

5. RADIO MODE OPERATIONS

Listening to the radio

● Radio Mode

Push the [⏻/MODE] rotary knob and select the radio mode.

● Select the band

Press the [BAND] button to select the desired band.

FM1 → FM2 → FM3 → AM → FM1...

Tuning a station

● Select the tuning method

Press longer the [BAND] button to toggle between Auto and Manual tuning method.

* **MANU** is lit in the display for Manual Tuning mode.

● Auto tuning the stations

Press longer the [BAND] button to toggle between Auto and Manual tuning method.

DX SEEK

(Automatically tune in to a receivable broadcast station)

Press the [◀◀] / [▶▶] button.

LOCAL SEEK

(Tune in to broadcast station with strong reception sensitivity)

Press longer the [◀◀] / [▶▶] button.

● Manual tuning the stations

Step tuning

(Change the frequency one step at a time)

Press the [◀◀] / [▶▶] button.

Quick tuning

(Change the frequency rapidly)

Press longer the [◀◀] / [▶▶] button.

Storing radio stations

● Storing manually

1. Select a radio band and tune in a desired radio station.
2. Press longer the [DIRECT] button to store the station into preset memory.

Note:

- Preset memory function can store up to 24 stations: Six stations for each of FM1, FM2, FM3 and AM.

● Recall a stored station

1. Select the desired band.
2. Press the corresponding [DIRECT] button to recall the stored station.

About RDS (Radio Data System)

This unit has a built-in RDS decoder system that supports broadcast stations transmitting RDS data.

This system can display the name of the broadcast station being received (PS) and can automatically switch to the broadcast station with the best reception as you move long distances (AF switching).

Also, if a traffic announcement or programme type is broadcast from an RDS station, no matter what mode you are in, this broadcast is received. Additionally, if EON information is received, this information enables automatic switching of other preset stations on the same network and interruption of the station being received with traffic information from other stations (TP). This function is not available in some areas.

When using the RDS function, always set the radio to FM mode.

- AF : Alternative Frequency
- PS : Programme Service Name
- PTY : Programme Type
- EON : Enhanced Other Network
- TP : Traffic Programme

RDS interrupt does not function during AM radio reception.

When set receives RDS signal, and can read PS data, PS appears in the display.

CAUTION

- **For some countries, RDS (Radio Data System) broadcasting is not supported. It is recommended to turn off all the RDS settings.**

Radio Mode Operations

CAUTION

- Please disable TA standby mode if broadcasting stations in your country do not support RDS. Otherwise, you may face difficulties searching for station.

Traffic announcement (TA)

● Setting the TA standby mode

Press the [TA] button during TA indicator off.

● Searching for a TP station

Press the [TA] button during TP indicator off.

Note:

- TP indicator lit on when a TP station is found.

● TA interrupts

In the TA standby mode, when a traffic announcement broadcast starts, "TRA INFO" appears in the display. The traffic announcement broadcast is received as top priority regardless of the function mode so you can listen to it.

● Cancelling an traffic announcement

Press the [TA] button during TA interrupts.

● Cancelling the TA standby mode

Press the [TA] button during TP and TA indicator on.

Note:

- TA standby mode is also cancelled when [TA] button is pressed during TP station searching operation.

Emergency broadcasting

● Emergency broadcast

If an emergency broadcast is received, all the function mode operations are stopped.

"ALARM" appears in the display and the emergency broadcast can be heard.

● Cancelling an emergency broadcast

Press the [TA] button during interrupts.

Volume setting of TA, emergency broadcast (ALARM) and PTY

During a TA, ALARM or PTY interrupt, turn the [⏻/MODE] rotary knob to set the volume to the desired level.

When the TA, ALARM or PTY interrupt ends, the volume returns to the level it had before the interrupt.

The factory default setting is "15".

Other RDS adjustment can be performed in Adjustment mode. Please refer to "Adjustment Mode" for further details.

6. USB OPERATIONS

⚠ CAUTION

- Do not try to put your fingers in the USB insertion slot. Also never insert foreign objects into the slot. USB memory device insertion may result in protruding as it might be dangerous to the user while driving. For safety purposes, it is advisable to use an USB extension cable to connect between the USB memory device and the USB slot on the main unit.
- Do not leave a USB memory device unattended in an automobile. Exposure to direct sunlight or high temperatures may cause deformation or other malfunction of the USB memory device.
- When the device is subjected to static electricity or electric noise, this may result in the loss of data.
- Insert and remove an USB memory device only when the device is not being accessed. Connecting or disconnecting the device at the following times may result in the loss of data:
 - When the device is subjected to static electricity or electric noise.

About USB

- USB is the abbreviation of Universal Serial Bus, an external bus standard that supports data transfer rates of 12Mbps. This unit is compatible with USB 1.1/2.0 with maximum data transfer rates of 12Mbps (Full Speed).
- USB memory devices that can be played by connecting to the unit's USB cable are limited to those recognized as "**USB mass storage class devices**"; operation is not guaranteed with all USB memory devices.
- Devices compatible with "**USB Mass Storage Class**" can be used merely by connecting to the host device, without need for special drivers or application software.
- Consult the manufacturer of your USB memory device for information regarding whether it is supported by "**USB Mass Storage Class**" standards. Please note that iPod device and hard disk drive (HDD) are not supported.

- To prevent the accidental loss of data, always back up important data to your computer.
- This unit does not support connections to a computer. In addition, connections made through a USB hub device are also not supported.
- If the USB memory device supports multiple partitions, only the first partition will be supported.
- USB memory devices with security functions cannot be played.
- The order in which tracks are recorded may differ depending on the USB memory device connected (the actual playback order may not be the same as that indicated on your computer's display).
- Audio files playable on this unit are limited to MP3/WMA files.

● Precautions when creating MP3/WMA On USB memory device

USB 1.1 and 2.0 compatible with a maximum transfer rates of up to 12Mbps. (Full speed).

● Precautions when creating MP3/WMA

Usable sampling rates and bit rates:

MP3	
Decode Format	MPEG 1, 2 - Layer 3
Sampling Rate (kHz)	MPEG-1 : 32, 44.1, 48 MPEG-2 : 16, 22.05, 24
Bit-rate (kbps)	MPEG-1 : 32 - 320 MPEG-2 : 32 - 160 VBR

WMA	
Decode Format	v7/8/9
Sampling Rate (kHz)	22.05, 32, 44.1, 48
Bit-rate (kbps)	32 - 320

Notes:

- Content protected audio file (DRM – Digital Rights Management) is not supported.
- Filesize less than 12KB will not be supported.

USB Operations

● File extensions

Only MP3/WMA file with the correct file extension (“**.MP3**” or “**.WMA**”) and encoded format (Refer to the table above) will be played.

● Logical format (File system)

1. When transferring MP3/WMA file to an USB memory device, please make sure the USB memory device is formatted in “**FAT16**” or “**FAT32**” file system. USB memory device that is formatted other than the specified file system will not be able to detect by the system.
2. The folder name and file name can be displayed as the title during MP3/WMA play but the title must be within 30 single byte alphabetical letters and numerals (excluding an extension).
3. Do not affix a name to a file inside a folder having the same name.

● Number of files or folders

1. Up to 255 files can be recognized per folder.
Up to 5000 files can be played.
- * Exceeding the files limitation may cause unexpected operation failure.
2. Up to a maximum of 255 folders can be supported.

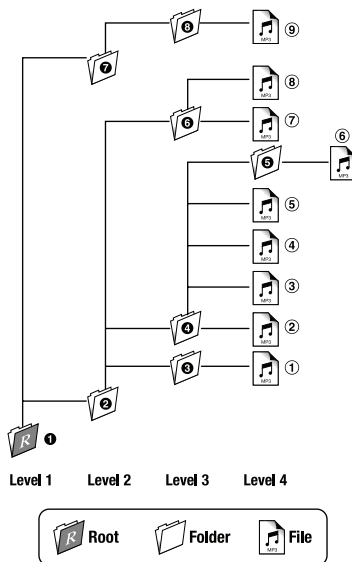
● ID3 tag/ WMA tag

- The folder name will be displayed as “**ROOT**” which the file allocates in the root folder.
- For MP3, supports ID3 Tags V2.4/2.3/2.2/1.1/1.0.
- The MP3 player decodes each file ID3 TAG ver 2 by default, if ID3 TAG ver 2 is unavailable, ID3 TAG ver 1 will be decoded.
- UNICODE ID3 (Chinese, Japanese and etc) is not supported. Only ASCII characters can be displayed in Tags
- If ID3 TAG has Japanese, Chinese character or other non supported characters, “*” will be displayed as substitution.

● File playing order

When selected for playing folder up down functions, files and folders are accessed in the order in which they were written into the USB memory device. Because of this, the order in which they are expected to be played may not match the order in which they are actually played.

For example, a medium with the following folder/ file hierarchy is shown below.



USB Operations

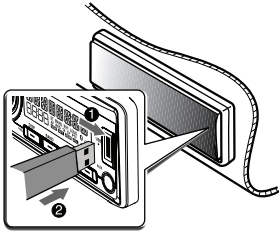
USB memory device connection

● Connecting a USB memory device

Connect the USB memory device into the slot with the correct direction. System switches to USB mode automatically.

Notes:

- Always insert the USB memory device fully into the slot. Incomplete connections may cause the USB memory device not be recognized.
- Depending on the number of tracks recorded, some amount of time may be required until all tracks are read into the unit.
- USB memory devices may have different shape depends on brands. Some USB memory devices may not be able to plug into the slot due to the shape design. Please use an extension cable instead.
- Please reconnect the USB memory device when it cannot be detected properly.
- Do not forcibly connect the USB memory device to the slot with incorrect direction as this will damage the USB memory device as well as the USB slot.



● Unplug the USB memory device

Remove the USB memory device from the USB slot.

Playback

● USB mode

Push the [⏻/MODE] rotary knob to select the USB mode.

* Track will start to play or resume automatically.

Note:

- If there is no USB memory device inserted, "NO USB" will be displayed.

● Play/pause

Press the [▶II/ENT] button to toggle play/pause.

● Selecting a folder

1. Press the [FLDRA] button to move the next folder.
2. Press the [FLDR▼] button to move the previous folder.

Notes:

- Press the [FLDRA] button while in the final folder will shift to the first folder.
- Folder without a MP3/WMA file is not selectable.
- The first track will always be selected when shifting to next/previous folder.
- Track selection and other special playback mode cannot be triggered during folder selection display.

● Selecting a track

1. Press the [▶▶I] button to move to the beginning of the next track.
2. Press the [I◀◀] button to move to the beginning of the current track.
3. Press the [I◀◀] button twice to move to the beginning of the previous track.

Note:

- Unsupported track with MP3/WMA extension will be skipped. "--:--" will be blinked for a few seconds before jumping to the next track automatically.

● Top function

Press the [BAND] button, then the USB will start playing from the first track of current folder.

USB Operations

Scan

● Scan play

Press the [SCN] button.

Notes:

- This function plays the first 10 seconds of all the tracks. Scan play starts from the next track after the track currently being played.
- The [SCN] indicator lights in the display.

● All scan play

Press longer the [SCN] button.

Notes:

- This function plays the first 10 seconds of the first track of all the folders. All scan play starts from the first track of next folder after the track currently being played.
- The [ALL] and [SCN] indicators light in the display.

Repeat

● Repeat play

Press the [RPT] button.

Notes:

- This function plays the current track repeatedly.
- The [RPT] indicator lights in the display.

● All repeat play

Press longer the [RPT] button.

Notes:

- This function plays all tracks of the current folder repeatedly.
- The [ALL] and [RPT] indicators light in the display.

Random

● Random play

Press the [RDM] button.

Notes:

- This function plays all tracks of current folder in a random order.
- The [RDM] indicator lights in the display.

● All random play

Press longer the [RDM] button.

Notes:

- This function plays all the tracks of all the folders in a random order.
- The [ALL] and [RDM] indicators light in the display.

● To cancel scan/repeat/random play

Press the operating button previously selected.

Switching the display

Press the [DISP] button to select the desired display.

Each time the button is pressed, the display switches in the following order:

Main-1 display (Track No., Play Time) → **Main-2 Display** (Folder No., Track No.) → **Track Name** → **Folder Name** → **Title Tag** → **Artist Tag** → **Album Tag** → **Main-1 Display...**

Note:

- Once selected, the preferred display becomes the display default. When a function adjustment such as volume is made, the screen will momentarily switch to that function's display, then revert back to the preferred display several seconds after the adjustment.

7. AUXILIARY INPUT

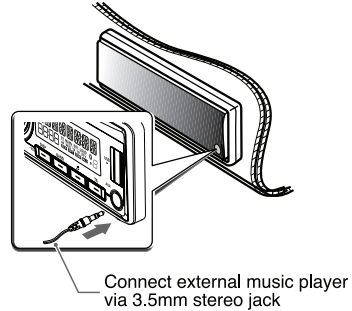
AUX mode

1. Connect the external music player to the **AUX** input.
2. Push the [⏻/MODE] rotary knob select AUX mode.

This system has an external jack input in the front panel where you can listen to sounds and music from external devices connected to this unit.

Notes:

- Use only the 3.5mm stereo jack for the AUX jack input.
- Volume can be adjusted through the unit.
- Remove the audio jack from AUX input during AUX mode will not revert to Radio mode automatically.



8. ADJUSTMENT MODE

Note:

For some countries, RDS (Radio Data System) broadcasting is not supported. It is recommended to turn off all the RDS settings.

1. Press longer the [DISP] button to enter adjustment selection display.
2. Press the [◀◀] / [▶▶] button to select the Item name.

("AF" ↔ "REG" ↔ "PTY" ↔ "PTY-SEL") ↔
"CLOCK" ↔ "12/24 HR" ↔ "CLK ADJ" ↔
"SCROLL" ↔ "RESET" ↔ "AF"...

Notes:

- Items in bracket (PTY, PTY SEL, AF and REG) are known as RDS Mode adjustment. It will only be available for selection during Radio mode FM band.
- "PTY-SEL" is available only when "PTY ON".
- "REG" is available only when "AF ON".

Setting alternate frequency (AF)

1. Select "AF".
2. Turn the [⏻/MODE] rotary knob to select "ON" or "OFF".

Notes:

- The AF function switches to a different frequency on the same network in order to maintain optimum reception.
- The factory default setting is "OFF".
- If the reception of the current broadcast station deteriorates, "SEARCH" appears in the display and the radio searches for the same programme on another frequency.

Setting Regional (REG)

1. Select "REG".
2. Turn the [⏻/MODE] rotary knob to select "ON" or "OFF".

Notes:

- When the REG function is ON, the optimum regional station can be received. When this function is OFF, if the regional station area switches as you drive, a regional station for that region is received.
- The factory default setting is "OFF".
- This function is disabled when a national station such as BBC R2 is being received.
- The REG function ON/OFF setting is valid when the AF function is ON.

Setting Programme Type (PTY)

1. Select "PTY".
2. Turn the [⏻/MODE] rotary knob to select "ON" or "OFF".

Notes:

- This function enables you to listen to a broadcast of the selected programme type even if the unit is on a function mode other than radio.
- Some countries do not yet have PTY broadcast.
- In the TA standby mode, a TP station has priority over a PTY broadcast station.
- The factory default setting is "OFF".

● Cancelling a PTY interrupt broadcast

Press the [TA] button during the PTY interrupt broadcast.

Adjustment Mode

Selecting Program Type

1. Select "PTY SEL".
2. Press the [▶II/ENT] button.
3. Turn the [⏻/MODE] rotary knob to select the desired PTY.

PTY ITEM	Contents
News	News
Affairs	Today's events
Info	Information
Sport	Sports
Educate	Education
Drama	Drama
Culture	Culture
Science	Science
Varied	Variety
Pop M	Pop music
Rock M	Rock music
Easy M	Easy music
Light M	Light music
Classics	Classics
Other M	Other music
Weather	Weather
Finance	Finance
Children	For children
Social	Social
Religion	Religion
Phone In	Phone in
Travel	Travel
Leisure	Leisure
Jazz	Jazz
Country	Country
Nation M	Nation music
Oldies	Oldies
Folk M	Folk music
Document	Documentaries

* The PTY selection mode is cancelled automatically 7 seconds after a PTY is selected.

● PTY SEEK

During PTY item display, press the [I◀◀] / [▶▶I] button to search for a PTY broadcast.

Note:

- If no station with the selected PTY broadcast can be received, the unit returns to the previous receiving station.

Setting clock type

1. Select "CLOCK".
2. Turn the [⏻/MODE] rotary knob to select "RDS" or "USER".

Notes:

- Set to display RDS or User adjustable clock.
- The factory default setting is "USER".

Setting clock format

1. Select "12/24 HR".
2. Turn the [⏻/MODE] rotary knob to select "12HR" or "24HR".

Notes:

- Set user clock format.
- The factory default setting is "12HR".
- This setting is only available when User Clock is selected.

Adjusting the clock

1. Select "CLK ADJ".
2. Press the [▶II/ENT] button.
3. Press [I◀◀] / [▶▶I] button to select the hour or the minute.
4. Turn the [⏻/MODE] rotary knob to adjust the time.
5. Press the [▶II/ENT] button to memory the new setting value.

Notes:

- This adjustment allows the user clock to be set by user.
- The factory default setting is "1:00".
- This setting is only available when User Clock is selected.

Setting the method for title scroll

1. Select "SCROLL".
2. Turn the [⏻/MODE] rotary knob to select "ON" or "OFF".

Notes:

- Set the MP3/WMA title to scroll continuously or once.
- The factory default setting is "ON".

Restoring to factory default setting

1. Select "RESET".
2. Press the [▶II/ENT] button.
A confirmation message will be displayed.
3. Turn the [⏻/MODE] rotary knob to select "YES".
4. Press the [▶II/ENT] button again to reset.

Notes:

- All settings and preset memory channels will be returned to initial stage. User will have to manually perform those settings again.
- Once reset, system will automatically turn off.

9. TROUBLESHOOTING

	Problem	Cause	Measure
General	Power does not turn on. (No sound is produced)	Fuse is blown.	Replace with a fuse of the same amperage. If the fuse blows again, consult your nearest service dealers.
		Incorrect wiring.	Consult your store of purchase.

	Problem	Cause	Measure
MP3/WMA (USB Memory device)	No sound heard.	MP3/WMA files are absent in a USB memory device.	Transfer MP3/WMA files onto the USB memory device properly.
		Files are not recognized as an MP3/WMA file.	Use correct encoded MP3/WMA files.
	Sound is cut or skipped. Noise is generated or noise is mixed with sound.	MP3/WMA files are not encoded properly.	Use correct encoded MP3/WMA files.
	USB memory device cannot be detected.	USB memory device may be damaged.	Reinsert the USB memory device to try again. Replace with a new USB memory device if failed.
		USB memory device connector is in bad condition.	
		Compatibility issue	Not all the USB memory device is guaranteed to be supported.
	USB memory device is unable to plug into the USB slot.	The USB memory device connector may be inserted to the slot in the wrong direction.	Reinsert the USB memory device with the correct direction.
		The USB memory device connector is damaged.	Replace with a new USB memory device.
	USB card reader cannot be detected.	USB card reader is connected to main unit first before inserting memory card to the card reader.	Insert the memory card to USB card reader first before connecting to the main unit.
	Error display is shown when USB is plugged in.	Refer to the corresponding Error Display type.	

10.ERROR DISPLAYS

Error Display	Cause	Measure
MNT ERR	Failure detection of USB memory device when it is plugged into the slot. The connected USB device is not supported	Unplug the USB memory device and re-plug into the slot. Replace with another supported USB memory device.
NO FILE	No audio file is detected in the media.	Replace with audio contents loaded USB memory device.
USB ERR	An error occurred when controlling the USB device or data error.	Make sure the correct file system of the USB device is being used. Unplug the USB memory device and re-plug into slot.

Note:

- Short circuit USB connector will power off the unit automatically. Replace with another USB memory device.

11.SPECIFICATIONS

FM tuner

Frequency Range: 87.5 MHz to 108 MHz
 Usable Sensitivity: 11 dBuV
 40 dB Quieting Sensitivity: 17 dBuV
 Stereo Separation (1 kHz): 35 dB
 Frequency Response (± 3 dB): 30 Hz to 15 kHz

AM tuner

Frequency Range:
 MW 531 kHz to 1602 kHz
 LW 153 kHz to 279 kHz
 Usable Sensitivity: 25 μ V

Common in USB-MP3/WMA

Max. Files Support : 5000
 Max. Folders Support : 255
 Max. File per Folder : 255
 Max. File Name Support : 30 characters
 Max. Folder Name Support : 30 characters

Audio (24V)

Maximum Power Output: 40 W (20 W X 2 ch)
 Continuous Average Power Output:
 15 W X 2, into 4 Ω , 20 Hz to 20 kHz, 1%THD
 Bass Control Action (100 Hz): ± 14 dB
 Treble Control Action (10 kHz): ± 14 dB

Audio (12V)

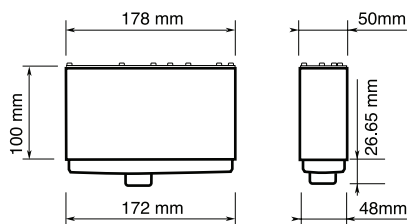
Maximum Power Output: 140 W (35 W X 4 ch)
 Continuous Average Power Output:
 15 W X 4, into 4 Ω , 20 Hz to 20 kHz, 1%THD
 Bass Control Action (100 Hz): ± 14 dB
 Treble Control Action (10 kHz): ± 14 dB

General (24V)

Power Supply Voltage:
 28 V DC (21 V to 32 V allowable), negative ground
 Current Consumption: Less than 6 A
 Speaker Impedance:
 4 Ω (4 Ω to 8 Ω allowable) Weight: 1.336 lb.(0.606 kg)
 Dimensions:
 178 mm Width X 50 mm Height X 100 mm Depth

General (12V)

Power Supply Voltage:
 14V DC (10.8V to 15.6 V allowable),
 negative ground
 Current Consumption: Less than 10 A
 Speaker Impedance:
 4 Ω (4 Ω to 8 Ω allowable) Weight: 1.336 lb.(0.606 kg)
 Dimensions:
 178 mm Width X 50 mm Height X 100 mm Depth



Note:

- Specifications and design are subject to change without notice for further improvement.

Clarion Co., Ltd.

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