MP02 Tuner - CD Player

User Manual

CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR
PERFORMANCE OF PROCEDURES OTHER THAN THOSE
SPECIFIED HEREIN MAY RESULT IN HAZARDOUS
RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR
YOURSELF. REFER SERVICING TO QUALIFIED
PERSONNEL.

WARNING:
TO REDUCE THE RISK OF FIRE, ELECTRIC
SHOCK OR PRODUCT DAMAGE, DO NOT
EXPOSE THIS APPARATUS TO RAIN,
MOISTURE, DRIPPING OR SPLASHING AND
THAT NO OBJECTS FILLED WITH LIQUIDS,
SUCH AS VASES, SHALL BE PLACED ON THE
APPARATUS.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC
SHOCK, DO NOT REMOVE SCREWS.
NO USER-SERVICEABLE PARTS
INSIDE.
REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL.

Important

Do not install this equipment in a confined space such as a book case or similar unit.

The apparatus should not be dripped or splashed and no objects filled with liquids, such as vases, should not be placed on the apparatus.

This unit should not be used near water (e.g. near bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.) Care should be taken so than objects do not fall and liquids are not spilled into enclosure through openings.

CONTENTS:

What's in the box

The accessories which are included in the box are:
- Remote control
- FM Antenna
- Instruction manual
- Power cable

Hints on installation

Do…
- Use in a well-ventilated room.
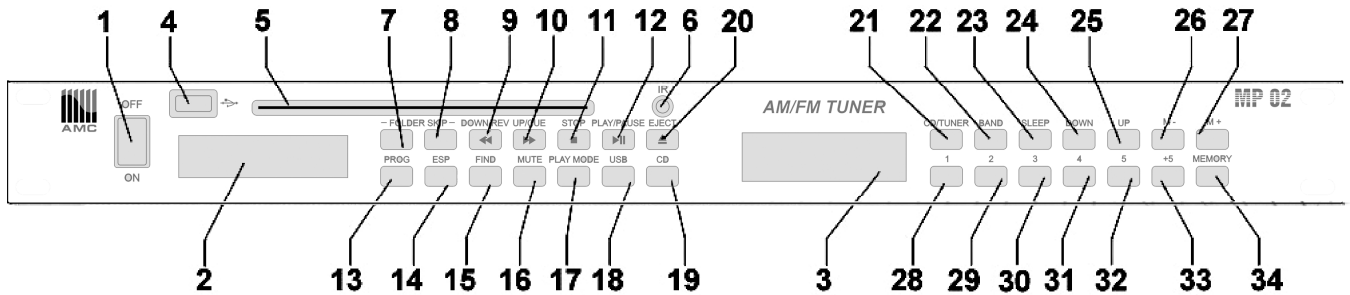- Place on a solid, flat, level surface, such as a table, shelf or stereo rack

Don't…
- Use in a place exposed to high temperatures or humidity, including near radiators and other heat-generating appliances.
- Place on a window sill or a place where the player will be exposed to direct sunlight.
- Use in an excessively dusty or damp environment.
- Place directly on top of an amplifier, or other component that becomes hot in use.
- Use near television or monitor as you may experience interference-especially if the television uses an indoor antenna.
- Use in a kitchen or other room where the player may be exposed to smoke or steam.
- Use on a thick rug or carpet, or cover with cloth-this may prevent proper cooling of the unit.
- Place on an unstable surface, or one that is not large enough to support all four of the unit's feet.
- Do not use or store batteries in direct sunlight or other hot place, such as inside car or near heater. This can cause batteries to leak, overheat ,explode or catch fire. It can also reduce the life or performance of batteries.
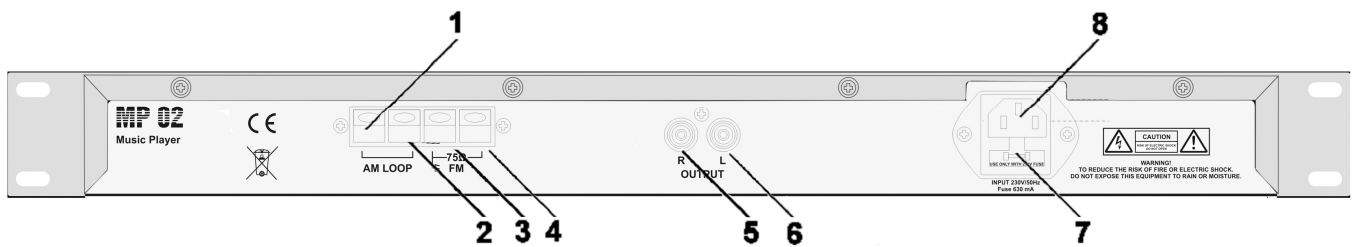
Disc, Flash disc format playback

You can play following disc formats: CD, CD-R, CD-RW, it does support CDDA (CD Text) as well as ISO 9660 CD-ROM's with Mp3's. WAV or MP3 files are supported from USB drive.

Front Panel

1. Power ON/OFF switch
2. CD Display
3. Tuner Display
4. USB Slot
5. CD Slot
6. IR Indicator
7. Folder-Down
8. Folder-Up
9. Down/Rev
10. Up Cue
11. Stop
12. Play/Pause
13. Programming
14. Electronic shock protection
15. Find
16. Mute
17. Play Mode
18. USB Mode
19. CD Mode
20. Eject
21. CD/Tuner mode switch button
22. Band
23. Sleep
24. Down Key
25. Up key
26. Memory Down
27. Memory Up
28. Track / Station Preset Button 1
29. Track / Station Preset Button 2
30. Track / Station Preset Button 3
31. Track / Station Preset Button 4
32. Track / Station Preset Button 5
33. Track / Station Preset Button +5
34. Memory

Rear Panel

1. AM antenna ground input
2. AM antenna input
3. FM antenna ground input
4. FM antenna input
5. Left channel output
6. Right channel output
7. Mains input socket
8. AC fuse holder

Tuner Functions

MEMORY

Memory mode is activated by pressing the "Memory" key, "MEMO" flashes in the display,
Tuned frequency is written to memory by pressing in the memory mode wanted preset button
from 1 to 10. After 5 seconds of inactivity memory mode shuts off automatically.

UP/DOWN

Seek tuning starts after pressing "UP" or "DOWN" key for more than 0,5 sec
When "UP" or "DOWN" key is pressed for a short time manual search mode is activated,
1 Push / 1 step.

ME-UP

You can select preset memory station by pressing "ME-UP" key. Pressing once, number of preset
memory station will increase by one. By pressing continuously, number of station memory preset
will increase from one to ten by cycle.

CD Functions

PLAY/PAUSE

By pressing this key when CD is stopped, play starts after track search.
When this key is pressed during playing the CD mode is changed in to pause.
When this key is pressed during CD is paused, it switches back to play mode.

STOP

When CD is playing or is in pause mode, by pressing this key it stops.

CD

By pressing this key the player switches to CD-MP3 mode.

USB

By pressing this key the player switches to USB mode.

UP/CUE

In stop mode this key changes starting track (file) in ascending order, and automatically goes to first
track if it is in the last track.
Single pressed in play mode or program mode changes to next track, in random mode skips to
random track.
By pressing longer than 0,7 sec. switches to fast forward mode.

DOWN/REV

In stop mode this key changes starting track (file) in descending order, and automatically goes to
the last track if it is in first track.
Single pressed in play mode or program mode changes to previous track (file).
By pressing longer than 0,7 sec switches to fast reverse mode.

FOLDER-UP

> In stop mode this key skips the starting play folder to next folder, and automatically switches to first folder if current folder is last.
> In the program entry mode this key switches to next folder's first file, if the folder is last it switches to first folder.
> In normal play mode this key skips the playing file and switches to next folder's first file.
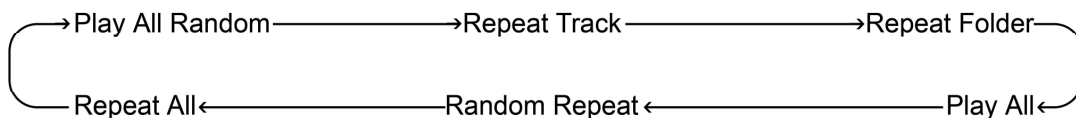
FOLDER-DOWN

> In stop mode this key skips the starting play folder to next previous, and automatically switches to last folder if current folder is first.
> In the program entry mode this key switches to previous folder's first file, if the folder is first it switches to last folder.
> In normal play mode this key skips the playing file and switches to previous folder's first file.

PLAY MODE

> In MP3 mode and USB mode, when pushing the key PLAY mode switches like shown below:

```
 →Play All Random————————→Repeat Track————————→Repeat Folder
┌                                                            ┐
└  Repeat All←————————Random Repeat←————————Play All←       ┘
```

> While pushing the key in CD mode, PLAY mode is changed in this order:

```
 →Play All Random ——————————————————————→Repeat Track
┌                                                       ┐
└  Repeat All←————————Random Repeat←—————————Play All←  ┘
```

EJECT

> By pushing this key CD is ejected.

PROG

> This key is used for programming.
> All program is cleared when STOP key is pushed in the programming mode.

MUTE

> When this key is pushed during CD is playing, the sound output is muted. Pressed again the sound is turned on again.

ESP

> When "ESP" key is pressed in CDDA mode electronic shock protection mode is turned on, you can see the state in the display. Electronic anti shock time is about 40 seconds. ESP function is canceled by pressing "ESP" key again.

FIND

> By pressing this key once in MP3 mode, search mode is changed into FILE search. By pressing this key twice search mode is changed into ALBUM search. If "FIND" key is pressed for long, track time is displayed, if pressed twice ID3 tag is displayed.

0~5

> You can use these keys for selecting wanted track directly.

SPECIFICATIONS

GENERAL
1. FM synthesizer tuner
2. 10 preset memories.
3. CD with mechanical and electronic anti-shock, CD, CD-R, CD-R/W, MP3, USB MP3 available.
4. Input/Output
   Input: FM 75 ohm unbalanced antenna terminals
      USB port for memory stick
      Output: Stereo RCA left-right output.
5. Power supply : 230V AC
6. Power consumption: 50 VA
7. Weight: 3,5kg
8. Dimension: 482mm*44mm*250mm

TUNER SECTION
1. Tuning Frequency range   - 87,5 – 108 MHz
2. IF frequency   - 10,7 MHz
3. 30dB quieting sensitivity   - 10 µV
4. S/N ratio (A weighted, @ 65 dB)   - 60 dB
5. 3 dB limiting   - 8 µV
6. IF rejection   - 75 dB
7. Image rejection   - 25 dB
8. THD (@ 1 mV 40 KHz dev.)   - 0.8 %
9. Frequency response (6dB point 50 µV de- emphasis)   - 100 Hz ~ 10 KHZ
10. AM suppression (MOD 30% FM input level 1mv)   - 40dB

CD SECTION
1. Output level: 1.2V ± 2dB
2. Output level difference between channels   Less than 2dB
3. Frequency response (Using 1 KHz 0dB as reference)   20 Hz 20 KHz
4. Separation @ 1 KHz   More than 60 dB
5. THD @ 1KHz   Less than 0.1 %
6. S/N ration @1KHz   More than 70 dB