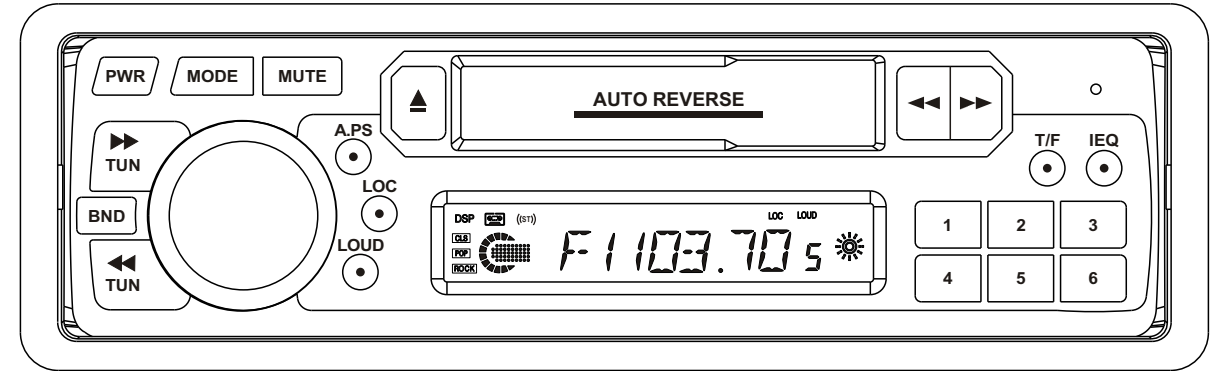


OWNER'S MANUAL



**AM/FM RADIO CASSETTE DECK
MODEL NO.: PP103914**

PRECAUTION AND MAINTENANCE

* This unit is designed for 13.8V DC Negative ground systems ONLY. The equipment is compatible, if the negative (-) terminal of the battery is connected to the vehicle's metal body /chassis.

* Do not use speaker or impedances less than 4 Ohms, or allow the speaker wires to be shorted together when the unit is switched ON, doing so may over load or damage Internal components.

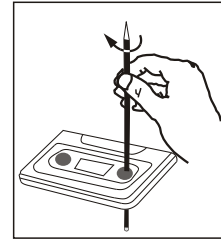
* If the fuse blows, check connections and replace with the same type of fuse and current rating as original. Use of higher amperage fuse may cause serious damage to the unit. Always turn OFF power before removing front panel.

* It is not advisable to use cassette tapes longer than C-60 (30 minutes per side) in automobile players, since the tape is very thin and tends to break or easily become entangled. Always remove cassette from player as soon as play has ended.

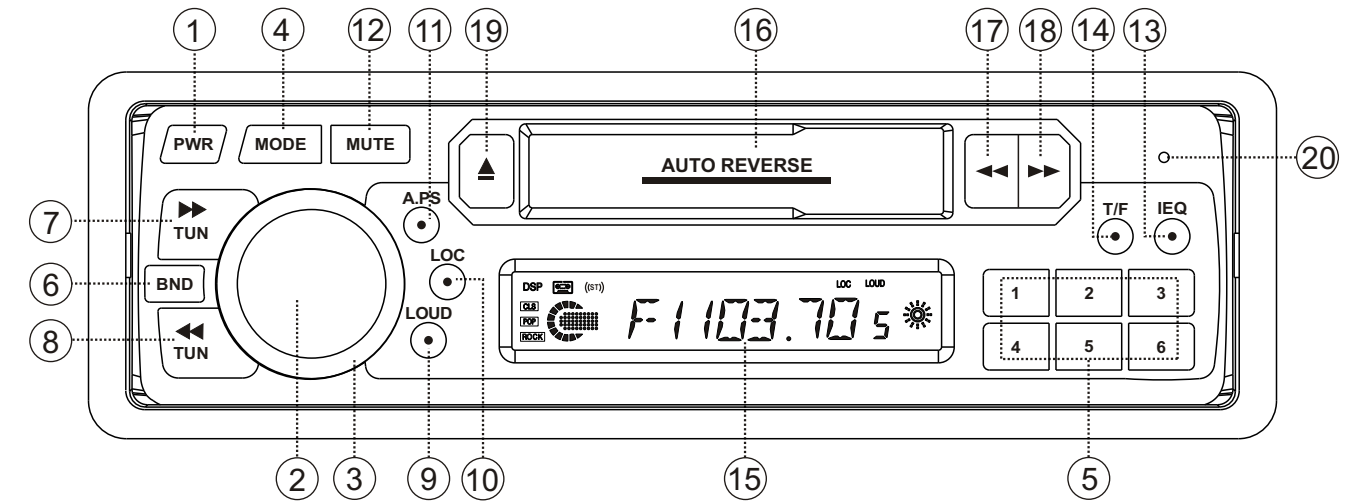
* Take care of the cassette, preserve the quality of the recording by not allowing them to be exposed to direct sun light, Extremely high or low temperatures, magnets, electric motors, dirt and dust. Avoid contaminating with greasy or

oily hands. Do not touch exposed tape. Always store them in their protective cases.

Before inserting cassette tape, always inspect for tape slack caused by handling or vibration. Use a pencil or pen to wind real hub and remove the slackness.



LOCATION OF CONTROLS



- | | |
|-------------------------------------------------|----------------------------------------------|
| 1. Power ON / OFF button | 11. A.P.S - Auto preset scan button |
| 2. Electronic function SELECT button | 12. MUTE button |
| 3. VOLUME button | 13. IEQ (FLAT - CLASSIC - POP - ROCK) button |
| 4. Mode button < Radio or Tape mode selection > | 14. T/F - Time / Frequency button |
| 5. Preset buttons | 15. LCD Liquid (Crystal Display) |
| 6. Band button (FM1, FM2, FM3, AM1 and AM2) | 16. Cassette Door |
| 7. Radio Tune UP | 17. Tape Rewind function button |
| 8. Radio Tune DOWN | 18. Tape Forward function button |
| 9. Loud button | 19. Tape EJECT button |
| 10. LOCAL / DX seek sensitivity | 20. Reset button |

OPERATION OF CONTROLS

1. POWER ON/OFF button

Press the button (1) to turn on the unit. When the power on, "Welcome" is scrolled on LCD, then the Radio or Tape mode is displayed on the LCD 5 seconds, after then the LCD displays current time. Also press the button (1) to turn off the unit, "Goodbye" is scrolled on LCD. Although the power off, the unit can display current time still.

Note: The time form is AM 12 hours and PM 12 hours.

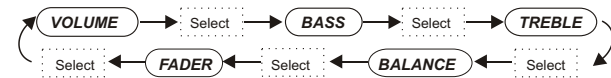
2. SELECT button

1) Audio control (VOL / BASS / TRE / BAL / FAD)

Press this button (2) less than 1.5 seconds to select the following features;

- "VOL" display - volume control > press knob (2)>
- "BAS" display - bass tone control >press knob (2)>
- "TRE" display - treble tone control > press knob (2)>
- "BAL" display - balance control > press knob (2)>
- "FAD" display - fader control > press knob (2)>

and you go back into volume control. If the knob or one of the keys is not pressed within 5 seconds, the radio automatically switches into volume level control mode. These settings are indicated on the LCD window.



2) Beep 2nd and I-Vol Selection

When the SEL button is pressed over 2 seconds, the unit will be operated as below:



a. Beep 2nd

On the Beep 2nd, you can control the Beep on or Beep 2nd by turning the spindle knob.

- Beep on : You can hear "Beep" sound when you press all buttons.
- Beep 2nd :You can hear "Beep" sound when you press the button over 1.5 seconds.

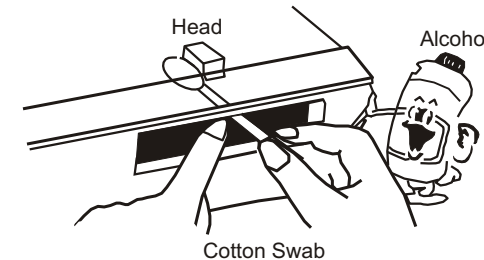
b. I-Vol

By pressing the button more than 1.5 seconds again, the unit will be into the I- VOL mode. (Initial Volume Level Adjustment). You can adjust the I-Vol of what you want to set by turning the spindle knob and the I-Vol will be set automatically. After the setting of initial levels, when the unit is power on/off and ACC on/off, if the present level is lower or higher than initial level, it will keep the preset level.

GENERAL OPERATION

1. Press [PWR] button to turn power on.
 2. Insert a cassette tape through cassette door. Playing begins automatically & display will indicate that tape is in motion and travel direction "◀◀" or "▶▶".
 3. Adjust VOL / BAS / TRE / BAL and FAD as desired.
 4. Press "▲" Eject button at any time to eject cassette.
- Note:** If end of tape is reached during PLAY or FAST-WIND, deck will auto-reverse and proceed to play the other side of cassette tape program. Press Eject button to release cassette.

* The build-up of iron oxide particles which is often even more server with inferior tapes, will reduce the performance of tape player. If a loss of clarity / brilliance (high frequency response) is noticed, the head probably needs cleaning. This may be done by cleaning the head with a cotton swab moistened in alcohol or special cleaning fluid.



SPECIFICATIONS

FM TUNER

Tuning Range 87.5 - 107.9 MHz
Sensitivity 10dB / uV
Separation 30dB

AM TUNER

Tuning Range 530 - 1710 KHz
Sensitivity 35dB / uV

TAPE DECK

Freq. Response 100 Hz - 8 KHz
Tape Speed 4.75cm / Sec.
Signal - Noise Radio 35dB / uV
Wow & Flutter 0.25%

AUDIO AMP

Power Output 4 x 25 watts

GENERAL

Power Supply DC 13.8V Negative Ground
Speaker Impedance 4 ohm

OPERATION OF CONTROLS

18. PROGRAM Fast function

To advance the tape quickly push this button until the lock to release gently press the opposite key.

To change the tape play direction press this button, the display will show the direction and play.

Note: When the tape reaches the end during playback it automatically switches direction and continues to play.

19. EJECT button

To end tape play press this button (EJECT) fully home, the unit will then reword to RADIO mode.

To play the tape back again, press MODE (4) button, then the Tape start to running play.

20. RESET function

A microprocessor reset button has been provided to facilitate manual resetting of the internal microprocessor. In the unlikely event that the player fails to operate correctly, If you are faced with a mal-function during the operation, simply press the **RESET** (20) button.

Note : It will be necessary to re-enter the radio preset memories as these will have been erased when the microprocessor was reset. After resetting the player, ensure all functions are operating correctly.

OPERATION OF CONTROLS

3. Volume Control button

Turn left or right the spindle knob (3) to decrease or increase the volume level. Switching on your radio automatically allows you to set the volume level without having to select it first. Simply turn the spindle knob to set the required level.

- Bass control

Turn left to lower the bass.

Turn right to higher the bass.

- Treble control

Turn left to lower the treble.

Turn right to higher the treble.

- Balance control

Turn left to decrease the right speaker volume.

Turn right to increase the left speaker volume.

- Fader control

Turn left to decrease the volume level of any loud speakers connected front channel.

Turn right to increase the volume level of any loud speakers connected rear channel.

4. "MODE" button

Press this button to select Radio or Tape mode.

5. Preset buttons

These buttons have a dual function, depending on how long they are held in the depressed position. Use these buttons to memorized or recall up to 18 FM and 12 AM station selections.

- To write operation

- Select desired band FM1/FM2/FM3 with the BND button
- Tune in desired radio station with the TUN UP (►►) or TUN DOWN (◀◀) button.
- Press and hold depressed any one of the preset buttons (1-6) for more than 2 seconds until number selection appears on digital display, this indicates station has been entered into the corresponding memory area.

Repeat the steps as above **a~c** to memorized each BAND in preset buttons.

- To read operation

Press one of the preset buttons (1-6) for less than 2 seconds, read the corresponding prest memory

6. Band function

Press the BND (6) button shortly to select the desired band FM1, FM2, FM3, AM1 and AM2.

7. TUNE UP button

- FM/AM Seek up

Press shortly TUNE up button activate auto seek-up scale. Press again to cancel the operation. Press seek-up longer than 2 seconds to activate manual tuning up mode. Afer 3 seconds, if the keys are not pressed, they will return to auto tuning mode.

8. TUNE DOWN button**- FM/AM Seek down**

Press shortly TUNE down button to activate auto seek-down scale. Press again to cancel the operation. Press seek-down longer than 2 seconds to activate manual tuning down mode. After 3 seconds, if the keys are not pressed, they will return to auto tuning mode.

9. LOUD (loudness) function

In order to emphasize the bass and the treble at low volume, press and hold key for 1 second. The display "LOUD ON" comes up for a short time and then reverts to displaying the frequency the station. The confirmation "LOUD" is indicated on the display "LOUD OFF" comes up for a short time when it is turned off.

10. LOCAL / DX seek sensitivity

The unit is fit out with two seek sensitivities, which you can switch on manually. Depressing the button (10) you can choose between the local seek sensitivity; only strong stations are received (local reception), and the DX seek sensitivity; strong and weak stations are received (local / distance reception). If you choose local seek sensitivity the display LO appears on the display.

11. A.PS -Auto store function

Depress and hold button (11) for approximately 2 seconds until you hear a signal. Which confirms the memory function

is complete and the display shows "SEARCH". Automatically six strong stations are stored on the station buttons 1 - 6. You can override the preset station on any button by manually setting a new frequency.

- Automatic radio tuning

When any of TUNE buttons (7 or 8) is pressed less than 2 seconds, it performs TUNE UP/ DOWN operation. When the detecting frequency is being in preset memory already, it displays the corresponding preset memory number.

For example: FM1 87.5. When any of TUNE button is pressed during the detecting of valid frequency operation, it is stopped the operation and return to the original frequency at first.

- Manual radio tuning

When any of the TUNE button is pressed for more than 2 seconds, you can get Manual UP/DOWN mode. It is able to up and down by one step. During the continue pressing the button, it performs the fast up and down operation. Without any operation for 6 seconds at manual mode, it returns to Auto Seek mode and display "AUTO". If you want to release this operation, just press any of the buttons to release it.

- Loading and Allocate to the program memories

If you wish to store a certain station just being received, depress and hold the desired buttons 1-6 for approx. one second without releasing it. The according program button number turns on and an acoustic signal is sent out, when the

station is memorized. To load a station from the memory bank simply select the desired area and choose the corresponding station memory with one of the buttons 1-6 .

- Stereo / memory-reception

After turning on the unit is prepared for stereo reception. If you now receive a FM-station which airs a stereo broadcast in the course of its program the corresponding indication appears on the display.

12. MUTE button

Press MUTE button (12) to mute sound, press again to restore volume to original setting. When MUTE button is pressed more than 2 seconds, it is controlled ILLUMINATION on/off.

13. IEQ function

The DSP=IEQ feature creates a realistic atmosphere for the style of music. You select using the latest digital sound technology. Quite pressing of the key allows you to select following features:

- "FLAT" display - normal operation mode > press key
- "CLASSICS" display - for the dramatic depth of classical music in a auditorium
- "POP M" display - for the electric excitement of stadium pop
- "ROCK M" display - for the subtle extension of the music' s dimensions
- "IEQ OFF" display - cancel the sound feature

14. TIME/FREQUENCY (T/F) button

- 1) After your unit has been installed in your car, then turn power on. The Radio or Tape mode will appear on the LCD window. After 5 seconds, the time will display on the LCD window.
- 2) Press T/F button once to display Time mode. Press T/F button once again (within 5 seconds) and hold depressed until displayed time begins to blink.
- 3) Turn the spindle knob (3) left to set the Minute, and turn the spindle knob (3) right to set the Hour.
- 4) Once adjustment is completed, press T/F button. Displayed time will stop blinking and within 5 seconds, it reverts to Radio Frequency.

15. LCD

Liquid Crystal Display indicates selections, radio frequencies and clock time.

16. CASSETTE DOOR

Insert a prerecorded cassette tape into the cassette door with the exposed tape facing to the right. Tape playback will start automatically.

To remove cassette tape, press ▲ eject button.

17. PROGRAM Rewind function

To rewind the tape quickly push this button until the lock to release gently press the opposite key.

To change the tape play direction press this button, the display will show the direction and play.