Infotainment Manual

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NOTE: Carefully read, understand and follow the instructions provided in this manual, and keep it in a safe place for future reference. If you have any doubt whatsoever regarding the use or care of your vehicle, please visit your Mahindra dealer for assistance or advice. This Infotainment Manual should be considered as an integral part of the vehicle and should remain with the vehicle.
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1 SAFETY PRECAUTIONS

Before using this device, take some time to read through this Instructions Manual.

Knowledge of the operation procedures will help in getting the best performance out of your new Infotainment System. Figures from the display and panel presented in this manual are examples provided for best explaining how the commands are used. Thus, display figures presented may be different from those actually presented on the device display. Illustrations, technical information, specifications and descriptions of this brochure were correct until the date of printing. We safeguard the right to make any required amendments according to the ongoing development and improvement.

To avoid risk of damage and/or fire, observe the following precautions;

• To avoid short-circuits, never insert metallic objects (for instance: coins or metallic tools) into the unit.

• If you notice that the unit is releasing smoke or strange smell, promptly disconnect the supply and consult the nearest Nippon Audiotronics or Mahindra service Center.

• Pay attention not to let the unit fall down, and neither beat the device strongly. Internal glass components of the unit may be damaged, making it non-operative.

• Do not place 8 cm (3 inches) compact discs into the CD opening. If you try to place into the device an 8cm CD with its adaptor, it may separate from the CD and damage the unit.

1.1 Cleaning of the Unit

If the front panel of this unit is dirty, clean it with a dry cloth or slightly soaked in water. If the front panel is too dirty, clean it with a cloth moistened with neutral soap and then repeat the prior operation.

⚠️ NOTICE

Do not use any cleansing spray with this unit, as that can affect its mechanical parts. If you clean the front panel with a rough cloth or using a volatile liquid, like solvent or alcohol, that may scratch the surface or erase some characters.
2 DVD/CD HANDLING

2.1 DVD/CD Opening Cleaning
As dust tends to accumulate at the CD opening, clean it up periodically. Remember that your compact disks (CD) may be scratched if inserted into the CD opening with accumulated dust.

2.2 DVD/CD Care and Maintenance

2.2.1 Precautions Regarding Operation
- If your car has been parked under the hot sun, let the unit cool down before activating it.
- Be careful not to let juice or soft drinks drip on the unit or on the disks.

2.2.2 Wetness Condensation
In a rainy day or in a very humid region, humidity may be condensed inside the laser reading lenses and on the unit display. If it happens, the unit will not work properly. In this case, remove the disk and wait for about one hour until the humidity has evaporated.

2.2.3 DVD/CD Handling
- Do not touch the CD recorded surface.
- Do not place them exposed to direct sun light (over the seat or control panel, etc.) or under high temperature
- Keep the CD’s on their boxes or in any other that protects them from being scratched.
- Do not place adhesives or others on the CD. Also, do not use a CD with an adhesive.
- Due to their manufacturing process, CD-R and CD-RW are more susceptible of being damaged than a common musical CD (Compact Disk). Use a CD-R or CD-RW after reading the precaution items in the CD labeling.

2.2.4 CD Accessories
- Do not use disk accessories
- Do not stick labels or use disks with sticky paints / residues. Disks may stop rotating when used; causing defects or they may be damaged.
2.2.5 CD Cleaning
Clean CD’s using a soft and dry cloth. Movements shall always be made from
the center to the edge of the disk and in a soft way.

2.2.6 CD Storage
When storing the CD’s from this unit, store them at the horizontal position.

2.2.7 DVD/CD’s that Cannot be Used
• CD’s which are not round shaped cannot be used.
• DVD/CD’s painted on the recording surface, or those which are dirty cannot
  be used.
• Do not use DVD/CD’s without the disc mark.
• It is not possible to reproduce a DVD/CD-R or DVD/CDRW which has not
  been formatted. (For the formatting process consult your DVD/CD-R / CD-
  RW software and the instructions manual of the DVD/CD-R / CD-RW
  recorder.
• DVD/CD’s of 8 cm (80 mm) size.

2.2.8 Music Disks Encoded with Copyrights Protection
This product has been designed to reproduce disks that comply with the Com-
 pact Disk (CD) standard. Recently, some labels have commercialized several en-
coded music disks with copyrights protection

It should be noted that, among those disks there are some which do not comply
with the CD standard, and it might not be possible to reproduce them in this
audio unit.
Some CD-R/CD-RW’s might not play in this unit depending on the equipment used for recording or the disk condition.

Your audio unit may be damaged if improper objects are inserted into it, like credit cards or coins, through the CD opening.
### W6 INFOTAINMENT SYSTEM

#### 3.1 Bezel and Button Functions

This Switch Bank contains 19 buttons and volume knob. The bank will be illuminated if the head lamps are turned on.

<table>
<thead>
<tr>
<th>SWITCH NO.</th>
<th>SB BUTTON</th>
<th>FUNCTION/DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>POWER / SELECT</td>
<td>Power ON / OFF, Select</td>
</tr>
<tr>
<td>2</td>
<td>VOLUME KNOB</td>
<td>Volume up / down</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>Recall or save Preset #1 / Dial #1</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>Recall or save Preset #2 / Dial #2</td>
</tr>
<tr>
<td>5</td>
<td>3</td>
<td>Recall or save Preset #3 / Dial #3</td>
</tr>
<tr>
<td>6</td>
<td>4</td>
<td>Recall or save Preset #4 / Exit menu / Dial #4</td>
</tr>
<tr>
<td>7</td>
<td>5 / RDM</td>
<td>Recall or save Preset #5 / Random / Dial #5</td>
</tr>
<tr>
<td>8</td>
<td>6 / RPT</td>
<td>Recall or save Preset #6 / Repeat / Dial #6</td>
</tr>
<tr>
<td>9</td>
<td>CLK / *</td>
<td>Clock / Dial *</td>
</tr>
<tr>
<td>10</td>
<td>7 / BAND</td>
<td>Interchange tuner bands [AM 1 / 2, FM 1 / 2 / 3] / Dial number 7</td>
</tr>
<tr>
<td>11</td>
<td>8 / SEEK DOWN</td>
<td>Tuner seek down / Previous track / Other menu associated activity / Dial number 8</td>
</tr>
<tr>
<td>12</td>
<td>9 / SEEK UP</td>
<td>Tuner seek up / Next track / Other menu associated activity / Dial number 9</td>
</tr>
<tr>
<td>13</td>
<td>0 / EQ</td>
<td>Equalizer adjust / Dial number 0</td>
</tr>
<tr>
<td>14</td>
<td># TA</td>
<td>Traffic Enable / Disable / Dial number #</td>
</tr>
<tr>
<td>15</td>
<td>Menu</td>
<td>Menu options</td>
</tr>
<tr>
<td>16</td>
<td>List</td>
<td>Show list of tracks / folder / accept a phone call / enter Phone Book</td>
</tr>
<tr>
<td>17</td>
<td>SOURCE</td>
<td>Inter change media sources [Tuner / AUX-in / CD / USB / BTA / iPod / RAI]</td>
</tr>
<tr>
<td>18</td>
<td>INFO</td>
<td>Show cluster details / warnings / Reject a phone call</td>
</tr>
<tr>
<td>19</td>
<td>MUTE</td>
<td>Mute / Un-mute Audio Sources</td>
</tr>
<tr>
<td>20</td>
<td>EJECT</td>
<td>CD eject</td>
</tr>
</tbody>
</table>

#### 3.2 Features

- **AM/FM tuner**
  - Auto Seek with RDS
  - 18-FM and 12-AM manual / Auto preset store
• Audio CD/DVD, USB/Ipod Audio
  - Supports CDDA, MP3, WMA9
  - Browsing
  - Random / Repeat
• AUX Audio Input
• Bluetooth®
  - Hands Free Telephony
  - Phone Book Access
  - Music Streaming
• Audio adjustments
  - Bass, Treble, Balance, Fade
  - Normal, Classic, Pop, Jazz, Rock
  - Mahindra Modes
• Infra Red Remote Control (IRRC)
• Voice Recognition (VR)
• Steering Wheel Control (SWC)
• Speaker Output - 4x25 Watts

3.3 User Controls

3.3.1 Display

The display will show all information such as tuner, CD track / folder etc. and fuel consumption, etc. There shall be 4 icons for CD, BT, AUX and USB music. These will be highlighted if the source is connected / available. Base screen will be HVAC ON every ignition cycle. User can change these to DIS/Alerts as required. The base screen display shall be divided into 2 major portions. The top portion is for the title of the screen, clock and audio. The bottom portion is for HVAC details.

⚠️ NOTICE

Features described herein are subjected to availability depending on vehicle variants. Please contact authorized personal for more information.
3.3.2 Switch Bank

This Switch Bank Contains 19 buttons and volume knob. The bank will be illuminated if the head lamps are turned ON.

3.3.3 Remote Control

The Infrared based remote control has 21 buttons and provides all the features of fascia switches. However the activities relating to HFP access of Bluetooth® and setup will be disabled. Remote Control Button Functions are as explained below:

<table>
<thead>
<tr>
<th>SR. NO.</th>
<th>KEY NAME</th>
<th>FUNCTION/DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>POWER</td>
<td>Turn ON / OFF of the infotainment system</td>
</tr>
<tr>
<td>2</td>
<td>SOURCE</td>
<td>Inter-change media sources</td>
</tr>
<tr>
<td>3</td>
<td>MUTE</td>
<td>Mute / Un-mute audio sources</td>
</tr>
<tr>
<td>4</td>
<td>MOVE UP ▲</td>
<td>Move Up on the list / Menu options</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SR. NO.</th>
<th>KEY NAME</th>
<th>FUNCTION/DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>MOVE DOWN ▼</td>
<td>Move Down on the list / Menu options</td>
</tr>
<tr>
<td>6</td>
<td>OK / SELECT</td>
<td>Select menu option</td>
</tr>
<tr>
<td>7</td>
<td>EXIT</td>
<td>Exit out of the menu / List screen</td>
</tr>
<tr>
<td>8</td>
<td>VOLUME UP ▶▶</td>
<td>Decrease volume level</td>
</tr>
<tr>
<td>9</td>
<td>VOLUME DOWN ◀◀</td>
<td>Increase volume level</td>
</tr>
<tr>
<td>10</td>
<td>1</td>
<td>Recall or save preset memory 1</td>
</tr>
<tr>
<td>11</td>
<td>2</td>
<td>Recall or save preset memory 2</td>
</tr>
<tr>
<td>12</td>
<td>3</td>
<td>Recall or save preset memory 3</td>
</tr>
<tr>
<td>13</td>
<td>4</td>
<td>Recall or save preset memory 4</td>
</tr>
<tr>
<td>14</td>
<td>5 / RDM</td>
<td>Recall or save Preset memory 5 / Random</td>
</tr>
<tr>
<td>15</td>
<td>6 / RPT</td>
<td>Recall or save Preset memory 6 / Repeat</td>
</tr>
<tr>
<td>16</td>
<td>EQ</td>
<td>Equalizer adjust</td>
</tr>
<tr>
<td>17</td>
<td>BAND</td>
<td>Inter-change tuner bands [AM 1 / 2, FM 1 / 2 / 3]</td>
</tr>
<tr>
<td>18</td>
<td>TA</td>
<td>Traffic Enable / Disable</td>
</tr>
<tr>
<td>19</td>
<td>Menu</td>
<td>Activate menu options</td>
</tr>
<tr>
<td>20</td>
<td>List</td>
<td>Enable CD / USB / iPod Browsing</td>
</tr>
<tr>
<td>21</td>
<td>INFO</td>
<td>Enable vehicle information display</td>
</tr>
</tbody>
</table>
3.4 Operations

3.4.1 General Operations

The following discrete modes are possible in the audio.

- Sleep mode [Infotainment system OFF]
- ACC Active mode
- NORMAL mode [infotainment system active]
- DISPLAY OFF state

1. **SLEEP Mode**
   
The system will enter SLEEP mode from normal / accessory active mode, when the key is changed to OFF position. When the system is in Sleep mode, there shall be no illumination in display. No key operations in IR RC / SWC / Switch bank will be recognized except [EJECT] button.

2. **ACC Active Mode**
   
   System enters into this mode when key is in ACCESSORY position & infotainment is turned on. All audio features are active for maximum of 1 hour, and the display is active without HVAC graphics. Driver Information's are disabled in this mode.

3. **Normal Mode / Infotainment System Active**
System enters into this mode, when key is in RUN position & infotainment is turned ON. The infotainment will be fully functional in this mode. The system can recall the last played track of CD or USB, when the system powered OFF and ON by user.

4. **Display OFF Mode**

If user press [POWER] button for more than 2 seconds, Infotainment will be powered OFF. All the audio functions will be deactivated in this mode.

3.4.2 **Power / Select**

Power/Select button located in centre knob of the fascia switch. The infotainment shall be powered OFF by pressing this button for more than 2 seconds. Single press of this button shall turn ON the power again. When the user is in MENU/ Phonebook/Equalizer/ List screen, user can press [Power/Select] button to select the options to activate it or enter into the sub menu/folder.

3.4.3 **Volume knob**

Volume can be increased or decreased by turning the volume knob in clock wise and anti-clockwise direction. Audio volume can be adjusted in Tuner, CD, AUX, USB, iPod, Bluetooth® modes. Volume knob is also used to change the options in MENU/ Phonebook/Equalizer/ List screen. Refer relevant sections for details.

3.4.4 **Source**

User can view the available sources by pressing the [SOURCE] button, only the current source is highlighted. User can change the current source by pressing the [SOURCE] button or by rotating volume knob. The selected source can be activated after screen time out of 2 seconds/else user can press [POWER/ SELECT] button for immediate action.
The user can enter the audio setting via [EQ] button short press; User can rotate the volume knob and select the desired setting.

- Bass (for adjusting low frequency)
- Treble (for adjusting high frequency)
- Balance (for adjusting left and right volume levels)
- Fader (for adjusting front and rear volume levels)
- Mahindra modes
- Speed Volume
- Equalizer

### 3.4.6 Bass / Treble / Balance / Fader Control

The Bass / Treble / Balance / Fader level will be adjustable from -9 to +9. Default level setting for all these will be zero.

Use volume knob (Clockwise / Anti-clockwise) to increase / decrease the bass / treble / Balance / fade by one level in range [-9...0...+9].

When the Bass level is set to -9 the low frequency components in the music will be fully attenuated and if set to +9 the low frequency components will be fully amplified. When the Treble level is set to -9 the high frequency components in the music will be fully attenuated and if set to +9 the high frequency components will be fully amplified.

The Balance setting is used to adjust the audio output between the left and right speakers.

When the Balance is set to "0" left and right speakers will have equal output at the selected volume level.

When the Balance is set to Left 9, the right speakers will be inaudible and the left speakers output will be at the selected volume.

When the Balance is set to Right 9, the left speakers will be inaudible and the right speakers output will be at the selected volume.

The Fader defines the relative audio output of the front and rear channels.

When the fade is set to "0" front and rear speakers will have equal output at the selected volume level.

When the Fade is set to Front 9 the rear speakers will be inaudible and the front speakers output will be at the selected volume.

When the Fade is set to Rear 9 the front speakers will be inaudible and the rear speakers output will be at the selected volume.

The same Bass / Treble / Balance / Fade level will be used by the tuner, CD, AUX, USB, Ipod audio sources.

### 3.4.7 Equalizer

The Infotainment system has following equalizer options Jazz, Pop, Rock, Classic, Voice and Normal. Whenever any of these options is selected, the corresponding music effects will be implemented into the current playing track.

### 3.4.8 Speed Volume

The infotainment system has the function Speed Volume Control. If this function is enabled in MENU options, the volume will be adjusted automatically according
to the vehicle speed. In this case, the display doesn't show when the volume is changed.

### 3.4.9 Mahindra Modes

On selecting the Mahindra Modes, user can avail the 3 pre-defined equalizer settings.

- **Front serene:** When user selects this option, the audio will be available only in front speakers.

- **Rear serene:** When user selects this option, the audio will be available only in rear speakers.

- **Retro:** When user selects this option, the audio will be available in all 4 speakers with predefined Bass and Treble settings.
3.5 Clock

Clock setting

- Long press on [CLK] button enables clock adjustment
- By default Hrs. will be flashed. Use volume knob for Hour adjustment
- Short press on ▶/ [POWER/ SELECT] button to toggle to minute field and use volume knob for adjustment
- After the adjustment Short Press on [Power/Select] or Short Press on [CLK] or 5 sec. time out will save the adjusted time and exit

Clock format

Infotainment system will support 12 / 24 hour modes and can be toggled by short press on [CLK]

Mute

Short press on [MUTE] button will mute the audio
- Radio will display "Audio Mute" when the current source is AM/FM, and Aux

3.6 Info

A short press on the [INFO] button will Toggle between the information display of Driver Information’s. Display change in the following sequence Fuel Info — Alerts — Fuel Info. Refer relevant sections for detailed information.

3.7 Menu

A short press on the menu button will enable the menu options. User can rotate the volume knob and select the desired menu item. The path of the menu will also be shown. When the last option is selected with the help of Select button the associated function will be executed. User can exit the screen with help of exit button or it times out after 15 seconds (in this case the action will not take place).
3.8 List (Browsing)

User can view the current media file structure using this list operation. User can browse the contents of the media without affecting the music playing. User can rotate the volume knob and select the desired location. The path of the current selection will also be shown / updated. When a track is selected it will play and if a folder is selected all the tracks within it will be shown. Only valid files / folders will be shown in this screen. The icons for Files / Folder / Active folder will be shown distinctively.

The current playing track will be shown with a tick mark in case of CD / USB. For iPod the entire iPod contents will be shown by default.

3.9 Tuner

The tuner mode shall play the audio from regional broadcasted station, provided it meets the AM / FM / RDS transmission specification. System enters into the tuner mode, when no source is connected. Tuner shall play the audio from regional broadcasted station, AM/FM.

Radio reception: Always memorise the desired stations using the radio memory keys. This will help you in selecting the desired station faster.

AM Reception: At most conditions, strong AM signals provide stable sound quality and with low signal noise. At night, however, the atmospheric conditions may sometimes lead to interference from other stations

FM Reception: FM zone offers best quality sound reception; however, the signal intensity may be subjected to noise caused by

- Limited reach of some transmitters
- Distortion caused by signals reflected in local buildings and other obstructions
- "Shadow zones" wherein the signal reception is obstructed or restricted

3.9.1 Band selection

If radio is already active, a short press of [BAND] button will change the selected frequency band in order of FM1 – FM2 — FM3 – AM1 – AM2 – FM1. For example, if radio is current in FM1 band, a short press of [BAND] button will make the radio change to FM2 band. Long Press on [BAND] button has no action. Also if the current source is not radio any press on band will not have any action. The STEREO alert will be displayed if the currently playing FM station has stereo output.

3.9.2 Auto Seek

In tuner mode, the user can execute an automatic seek for the next active radio station broadcast within the currently selected frequency band. The user can execute a downward frequency auto seek by a short ◀ button press. The user can execute an upward frequency auto seek by a short ▶ button press. If user wants
3.9.3 Preset Memory

To Store a Station (1 to 6)

- Preset functionality allows storing or selecting a given radio frequency within one of the reception ranges (FM1, FM2, FM3 and AM1, AM2)
- Long press on preset button [1]... [6], will overwrite the previously stored frequency in that memory location with the current frequency
- When the display shows the following image a long press on button #1 stores the current frequency and gives a beep sound as indication of storage.

Similarly different radio channels can be stored in different pre-sets by pressing the appropriate buttons (eg 1, 2, 3, 4....etc).

Recalling a Station

Short press of a preset button [1]... [6], recalls the radio station frequency from memory The tuner will change to this recalled frequency.

3.9.4 RDS (Radio Data System) [if equipped]

The Radio Data System (RDS) is used to extract additional radio station information with the FM signal.

RDS data provides the following information:

- Radio station name
- Program type
- Traffic announcement broadcasts

If an RDS signal is received then the station name will be automatically displayed.

“RDS can be enabled / disabled through tuner settings MENU — TUNER — RDS ON / OFF”

Traffic News & Announcements (TA)

RDS radio stations have the ability to broadcast special traffic announcements (TA) and news during their normal radio broadcast. The radio will handle these as a special type of broadcast and interrupt the current audio source to play the announcement.
A short press on the TA button will enable/disable the Traffic program alerts. Similarly the news alerts can be activated through tuner menu selection.

⚠️ NOTICE

Traffic alerts may not work only if Traffic announcement broadcast is available.

3.10 Playing a Media (CD / USB / iPod)

Whenever any CD / iPod / USB device is connected into the audio the very first track will be played by default. User can press ◀/▶ and select the desired location. The infotainment system can also display filename, folder name, ID3 (title, artist, album), genre of the current track. The default display content is track number and playing time.

⚠️ NOTICE

It is recommended to use the USB dongle along with a data cable.

Repeating Tracks / Folder

Playing Tracks
When user wants to repeat the current playing song or current folder, user can use the [RPT] button to change the options. The options change in the following sequence Repeat Track à Repeat Folder à Repeat off. By default Repeat off is activated. Display will show the repeat icon to indicate that repeat is activated.

**Random**

When user wants the folders/all the songs to be played in a random fashion a short press on the [RDM] button will enable the random options. The options change in the following sequence Random folder — Random All — Random off. By default random off is activated. Display will show the random icon to indicate that random is activated.

**Ejecting a CD / USB / iPod**

A short press on the eject button will eject the CD. It is always preferred to remove the USB / iPod only when the radio is powered off. Upon CD/USB/iPod removal, system play the audio from previously played source.

![Random Icon](image1.png)

**NOTICE**

Random and Repeat folder is not supported for iPod.

**3.11 Playing an AUX**

![Auxiliary Connected Icon](image2.png)
AUX jack connection will make the radio change to AUX mode automatically. Whenever an Aux device is connected there shall be an “Auxiliary connected” message displayed in system.

The system has two AUX ports - one at Front side & other at Rear side. The display will show "Playing Front AUX" or "Playing Rear AUX" depending on the AUX port being used. If there is an external auxiliary audio input from the bezel AUX connector, the audio can be output via the speakers of infotainment system.

During the AUX play, user cannot control the music played through the audio head unit. Operation like, seek track, fast forward / rewind etc., can be done only through the connected device. Whenever the Aux device is disconnected there shall be an “Auxiliary disconnected” message displayed in system.

### 3.12 Bluetooth® (BT) Functions

The Bluetooth® (BT) is a wireless protocol utilizing short-range communications technology facilitating data transmission over short distances from fixed and mobile devices. This product shall support BT 2.1, Class 2 making it possible for devices to communicate within a range of 10 Meters.

The user can enable or disable BT communication with the Infotainment system by selecting the BT ON/OFF in the following path. To enable/disable BT traverse the path Menu — Bluetooth® — Bluetooth® ON / OFF.

Searching for mobile phones / devices will be initiated, once the user selects the option “Find Phones” from “Add Device” of Bluetooth® Menu options. The audio unit will initiate the searching for active mobile phones / devices within its range for a maximum of 1 minute. During this time the display will show the below screen.

---

**NOTICE**

In order to connect additional Aux device, Rear Aux at the rear end of infotainment system can be used.

**Searching from Radio**

Searching for mobile phones / devices will be initiated, once the user selects the option “Find Phones” from “Add Device” of Bluetooth® Menu options. The
During the search, all buttons on fascia switch / Remote control / Steering Wheel control will be disabled except for [POWER] / [EXIT] button.

On EXIT button press, the list of phones found will be shown or if no device found till the time, then the following screen will popup.

On completion of the search, the list of devices found will be displayed and user can scroll through the list using the volume knob and select the desired one.

**Searching from Mobile Phones**

Infotainment system will be in discoverable mode for 1 minute and during this period user can search for "Mahindra Bluesense" from his/her mobile phone.

This mode can be enabled from the option "Find Bluesense" under "Add Devices" of Bluetooth® Menu options.

The system will be in discoverable mode for 1 minute after the menu options is selected. User needs to search for audio devices from his/her mobile phone / BT device. During this time the display will show the following graphics.

Once the key code 1234 is entered in the phone to pair the infotainment Phone and audio device, they will get connected and the pop up screen will be as follows.

**Pairing**
Pairing activity will be initiated after the completion of search done through mobile phone / infotainment system. Pairing will be successful once the key code entered is matching.

Pairing will fail if there is any BT communication failure. Then the pairing action will be aborted and infotainment system will revert to the previous audio source.

Reasons for the failure to detect / pair with a phone
- Five devices already paired
- Infotainment system powered OFF
- Vehicle speed greater than 5 kmph
- User press [4] button
- Ignition key position moved to OFF
- No phones found
- User stops searching in mobile phone or enters wrong Pin number etc
- BT not turned ON
- No slot available for a new Bluetooth® device to be paired

The following screens will be displayed in the above cases.

Wrong Pin Entry
If user has initiated the search from mobile phone and if he/she has entered the wrong pin number, the mobile phone will inform the appropriate message. On wrong pin entry case pairing will be failed and there will be a popup screen. Infotainment system will revert to previous audio source.

Unpairing / Deleting
Device can be deleted from the “Delete Device” option from Bluetooth® menu. On selecting the desired device to be deleted the Infotainment will popup following screen.

**Selecting Phone / Audio connection**

By default the last paired device will be connected for both for HFP and audio streaming. However user can also change the device connected to a particular mode using the BT menu options.

By traversing through this path the connected Audio / Phone device can be changed. Menu — Bluetooth® — Audio / Phone Device

⚠️ **NOTICE**

The device already connected will be highlighted with tick [✓] mark.
Disconnection
If user selects the already connected device then it will be disconnected.

Auto Re-connection
Auto re-connection will happen only with the last connected device. If there is no device available to connect, then infotainment shall not change its connection status unless user desire to do so. The device connection status will be indicated with the relevant symbol to user.

⚠️ NOTICE

Last connected device will already be connected in Phone mode.

Bluetooth® Music
User can select the music source with short press on the [SOURCE] button. When the connected BT phone is active the music can be played from it. When a BT phone is already connected to the infotainment, the last track that was played in the BT phone will be initiated. If the BT phone supports AVCRP profile then the track play will be initiated by infotainment, else the play must be initiated by the user.

The following actions on the music tracks can be done from the infotainment provided the BT device supports AVCRP profile
• Next / Previous track selection
• Play / Pause track

3.13 Phone Book
User can check the Phone Book with the following entry condition.
• Infotainment in active mode
• Phone device connected and PBAP is supported
• Long press of [LIST] button.

If the contacts are not ready to be displayed then the following screen will popup.

If there is no phone connected and if user long presses [LIST] button then there shall be a pop up message for 2 seconds.
**NOTICE**

The phone book contacts copied to Infotainment system can only be used when the corresponding mobile phone is paired and connected. Infotainment system may take some time to download the contacts from the mobile phone. Download time varies based on type of mobile phone.

### 3.13.1 Operations

The first level screen will show the contents of Phone Book with the first contact highlighted as below.

User can scroll through the list or press ▶ to refine search, where user can rotate the volume knob to select the desired character. The alphabets A~Z and numbers 0~9 can be scrolled and any desired character user can press SELECT. There will be 3 characters allowed for searching. With help of ◀ button user can go back one step to refine the search.

If the user presses a SELECT button for character then the control will be transferred back to the contact list, user needs to press ▶ button, enter the next character. Only one selection of the character [s] in the contact list will be updated.

If there are multiple number type per contact then the next level screen will appear. There will be 5 entries per contact namely General, Home, Office, Mobile and other and all of them will be displayed.

On the top the contact name and number will be displayed. Based on the contact type highlighted the number will be updated. If there is no number stored for a particular type then the phone number zone will be empty. User can press the [POWER / SELECT] button of [LIST] button to make the call.

If there is only one contact number stored against the name then it will take user directly to screen where the number appears and user can make the call using a short press on [LIST] button.
3.13.2 Incoming Call
An incoming call will be intimated to user with help of the below screens (graphics) and the in-band ring tone as supported by the cell phone. If the in-band ring tone is not supported then a standard tone for incoming calls will be supported.

In case of any incoming call the tuner will be muted and other media like CD / USB / iPod / will be automatically paused. Upon the termination of the call the tuner will be un-muted and CD / USB / iPod will resume automatically.

**NOTICE**

*If user rejects the call by pressing Reject button for more than 2 seconds, infotainment will auto answer “The person you are trying to reach is currently driving, please call back later”*

3.13.3 Outgoing Call
User needs to traverse through the Bluetooth® menu options to select the "Dial a Number". Once the option is selected user can use the key pads 0~9 to enter the digits.

On entering all the required digits user needs to press [LIST] button to make the call, else cancel the option with press on [INFO] button. At any time user can press button to abort the outgoing call operation. If no valid input is entered then the dialing screen will exit on 30 seconds time-out.

There will be "_" (underscore) mark for the user to understand that number can be entered and user can clear last entered digit with a long press of \[8\] (only one digit will be deleted for a long press).

**NOTICE**

*The cursor cannot be moved by user and will move automatically to next / previous position only. The maximum number of digits that user can enter will be 24. Any further digits entry by user will be ignored.*

An outgoing call will be intimated to user with help of the below screens (graphics) and the caller tune as transmitted by the network, else a standard tone for outgoing call will be supported.
3.13.4 Message

User can enable / disable the "SMS Alert" via Menu options. SMS ON / OFF options will be available only if the MAP feature is supported by the phone. The current setting will be highlighted with a tick mark.

If SMS alert is ON then there shall be pop up message for 10 seconds. The pop up shall also have beep tones for indication. User can read / ignore with help of [ CALL/DISCONNECT ] button.

If SMS alert is OFF then there shall be no pop-up but instead the notification for an new SMS will be shown with an icon

The infotainment system will read out the SMS with TTS function and also display the contents in the screen. The readout will start after a delay of 2 seconds. If a SMS with more than 160 characters are received, then the system shall read that as two SMS. Only a maximum of 60 characters can be displayed on the screen, user cannot view the rest. However the TTS feature will read out the complete content. If there are two or more new SMS only the last received can be read out. When SMS is read out, if another message is received, then it will not be indicated (no beep) and only the SMS count will be updated after exiting the reading screen.

Some "special" characters within received SMS message cannot be interpreted by infotainment system. Bluetooth® features like HFP, PBAP, A2DP, AVRCP and MAP are Phone dependent. Please refer your mobile phone owner’s manual for supported profile.

3.14 Steering Wheel Control (SWC)

3.14.1 Audio control

1. Mute: Press to mute the audio sound
2. Source: Press to change the source like radio and CD
3. Volume control: Press [+] to increase the volume. Press [-] to decrease the volume.

4. Phone CALL ACCEPT/REJECT or UP/DOWN

When Bluetooth® function is ON, press [CALL ACCEPT] to accept an incoming call, or press [CALL REJECT] to reject an incoming call.

When RADIO is ON, single press of UP/DOWN will seek to next valid station.

When CD is ON, short pressing of UP/DOWN will change the track and long pressing of UP/DOWN will function as fast forward / rewind.

3.15 Voice Recognition (VR)

When the PTT (Push To Talk) button is long pressed, infotainment system will enter into the VR mode. Once the PTT button is long pressed the following screen will be displayed.

User needs to wait for the voice feedback “Please say a command” followed by a beep sound, to activate the voice command as listed in later sections. Voice recognition will have 3 retries including the initial session if there is a failure in recognition. Voice recognition can be initiated again by pressing PTT button. During VR session volume up and down operation is possible and the action will take place in the background but there will not be pop up for displaying volume increase or decrease.

If the VR engine is not started then the following screen will be displayed.

Supported Languages:
1. U.S. English
2. U.K. English
By default U.S. English is enabled, user can change the language at Mahindra Authorized dealer end.

3.15.1 Voice Commands

CD/USB/iPOD

Press PTT button for more than 2 sec, wait for a feedback with beep sound and say command — "CD" or "USB" or "iPod" [as user needs].

The following sub commands can be activated in CD/USB/iPod mode:

1. **Next Track**: Press PTT button for more than 2 sec, wait for a feedback with beep sound and say command — "NEXT"

2. **Previous Track**: Press PTT button for more than 2 sec, wait for a feedback with beep sound and say command — "PREVIOUS"

3. **Repeat Track**: Press PTT button for more than 2 sec, wait for a feedback with beep sound and say command — "REPEAT"

4. **Shuffle/Random All**: Press PTT button for more than 2 sec, wait for a feedback with beep sound and say command — "SHUFFLE" or "RANDOM"

Bluetooth® AUDIO

Press PTT button for more than 2 sec and say a command — "Bluetooth® AUDIO" .

The following sub commands can be activated in Bluetooth® audio mode:

1. **Next Track**: Press PTT button for more than 2 sec, wait for a feedback with beep sound and say command — "NEXT"

2. **Previous Track**: Press PTT button for more than 2 sec, wait for a feedback with beep sound and say command — "PREVIOUS"

AUXILLARY IN
Press PTT button for more than 2 sec and say a command — "AUXILLARY IN"

**TUNER**

Press PTT button for more than 2 sec, wait for a feedback with beep sound and say command — "Radio"

The system will then prompt for "Do you want to go to AM or FM." User can say "AM" or "FM" to go the desired frequency band.

The following sub commands can be activated in Tuner mode:

1. **Tuning to the desired frequency** : Press PTT button for more than 2 sec, wait for a feedback with beep sound and say command — "TUNE 98.3"  
   (user can say any frequency in the AM/FM range)

2. **Channel selection** : Press PTT button for more than 2 sec, wait for a feedback with beep sound and say command — "SELECT MEMORY ONE"  
   (user can say any channel number between 1 to 6)

⚠️ **NOTICE**

*The user should understand that Voice recognition errors are inherent in the process. Neither Mahindra nor its Suppliers shall be liable for any damages arising out of errors in the Voice recognition process. Voice recognition performance depends on the user’s pronunciation and accent of the voice.*

### 3.16 RPAS (Rear Parking Assist System)

The RPAS is designed to assist the user in parking or driving the vehicle in reverse gear. The display system will warn the user about the obstacles present near the vehicle rear side, so that the user can safely drive the vehicle. When the RPAS is active, the audio source will not interrupted and RPAS tones will be played along with the existing audio if obstacles are found.

If display bars in any one of the sides / all sides are displayed with cross marks, contact an Authorised Mahindra Dealer.
3.17 Driver Information (DI)

The driver information can be activated by a short press on the [INFO] button. On entering the DI screen the following message will be displayed:

- Distance to empty shows the maximum distance that the vehicle can travel with the available fuel
- Average Fuel consumption shows the overall mileage of the vehicle

3.18 Air Conditioning System Details

The following HVAC status are shown on the display:

- Defrost action and recirculation
- Upper Air Outlet selection
- Upper and Lower Air outlet selection
- Defrost and Lower Air Outlet selection
- Cabin temperature selection
- Auto AC, Econ, AC status
- Auto High Beam ON
- Auto Wiper ON

3.19 Alerts

The alert icon will be displayed if there is a alert logged for display in the alerts screen. It will be deactivated if the Alert screen is visited by user (using [INFO] button or on a new ignition cycle. Also it will not appear in the pop up / DI / Alerts screen.

Following are the various alerts related to vehicle which are displayed on the screen:

- Front brake pad is worn out. Contact your nearest Authorised Mahindra Dealer to replace the brake pad
- Brake fluid level is low in any of the four wheels. Contact your nearest Authorised Mahindra Dealer
- Vehicle needs to be serviced. Regular servicing of the vehicle is necessary to ensure the peak performance of the vehicle.
W6 Infotainment System

- Air filter is clogged with dust particles. Clean the air filter or replace it at the nearest Authorised Mahindra Dealer.
- Door not properly closed. This might compromise the safety of the passengers inside the vehicle. Ensure all the doors are properly closed.
- Water in fuel is detected; need to clean the fuel filter.
4 W8/W10 INFOTAINMENT SYSTEM

4.1 Features

- 18 cm (7") Touch screen color display (Resistive feather touch)
- AM/FM tuner
  - Auto Seek with RDS
  - 12-FM and 6-AM manual/Auto preset store
- USB-AUDIO/VIDEO, iPod
  - Audio formats - .mp3, .wma9
  - Video formats - H.264 (.AVI, .MP4, .MOV), MPEG-4 DIVX (.AVI, .MP4), MPEG-4 XVID (.AVI, .MP4), WMV9mpdec (.AVI, .WMV), WMV (.AVI, .WMV), MPEG2 (.AVI, .MPEG, .MPG), MPEG1 (.MPEG, .MPG)
- USB - picture viewer (.JPEG, .PNG)
- Aux Audio Input
- Bluetooth®
  - Hands Free Telephony
  - Phone Book Access
  - Music Streaming
  - SMS Readout
- Audio adjustments
  - Bass, Treble, Balance, Fade

- Voice, Flat, Classic, Pop, Jazz, Rock, Retro
- Mahindra Modes [Front Serenic, Rear Serenic]
- User Setting [User defined]
- Infra Red Remote Control
- Voice Recognition
- Voice messaging system for alerts
- GPS Navigation
- Reverse Park Assist System
- Reverse View Camera Support *
- Rear Seat Entertainment system *
- Steering Wheel Control
- Speaker Output - 4x25 Watts; 2 Tweeters

⚠️ NOTICE

Features described herein are subjected to availability depending on vehicle variants. Please contact authorized personal for more information.

During Infotainment system boot up, a start-up animation video will be played. During this time period, only certain critical features like RPAS, RVC may work.
4.2 User Controls

4.2.1 Touch Screen Display

The Infotainment system is equipped with a 7" resistive feather touch screen TFT display. It displays information about media [audio, video track/folder information, AM/FM frequency], vehicle information such as tire pressure, fuel info and navigation information.

Home screen options:

- **Media**: To access & play media files from different sources such as USB, iPod, Bluetooth Music & Auxiliary inputs
- **Phone**: To access Bluetooth® phone operations.
- **Car Info**: To view vehicle related information such as tire pressure, fuel info, etc.
- **Nav**: To activate and enter into NAVIGATION.

- **E Manual**: To demonstrate different features of vehicle in video format.

It is also provided with a bottom bar comprising of the following three icons.

- Displays outside/inside vehicle temperature
- Displays signal strength and battery status of Bluetooth® paired phone.
- Displays Date and time
- Wi-Fi (feature currently not available)
- 3G dongle (feature currently not available)

**NOTICE**

This system has a dual-touch resistive type touch panel. Select the desired option in the screen using his/her finger or stylus. Do not use any sharp objects on the touch screen. On selection the selected item is highlighted as an acknowledgement.
Switch Bank contains 18 buttons and a volume knob. The switch bank backlights are illuminated, when the park lamps/head lamps are turned ON.

For button functions refer the following table;

<table>
<thead>
<tr>
<th>SWITCH NO.</th>
<th>SB BUTTON</th>
<th>FUNCTIONALITY</th>
</tr>
</thead>
</table>
| 1          | MUTE      | • Mute the Current Audio and Pause the USB/IPod music or Video play or un-mute the audio if it is muted already  
|            |           | • Will not mute the RPAS chime sound and Navigation audio  
|            |           | • Mute call while in phone mode |
| 2          | VIDEO     | • When the infotainment is not in the Video mode, change it to Video mode if any valid Video source is available  
|            |           | • When the infotainment is in Video play mode but not in the video play screen (say list screen, NAV, etc...), change the screen to video play screen |
| 3          | EQ        | • Change the current screen to Equalizer settings screen |
| 4          | LIST      | • Infotainment will change to browse screen when it is in USB or IPod source |
## W8/W10 Infotainment System

<table>
<thead>
<tr>
<th>SWITCH NO.</th>
<th>SB BUTTON</th>
<th>FUNCTIONALITY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>• When the infotainment is in Browse screen, short press will change to play screen</td>
</tr>
<tr>
<td></td>
<td>INFO</td>
<td>• Infotainment will change the display to car info screen</td>
</tr>
</tbody>
</table>
| 6          | ⬅️ ⬅️     | • When the Infotainment is in tuner mode, long press will initiate tuner seek in down direction and short press will decrease the frequency by 0.1  
• When the Infotainment is in USB or IPod mode, short press will change to previous track and long press will lead to rewind action  
• When the Infotainment is in BT music mode, short press will change to previous track |
| 7          | ⬅️ ⬅️     | • When the Infotainment is in tuner mode, long press will initiate tuner seek in down direction and short press will increase the frequency by 0.1  
• When the Infotainment is in USB or IPod mode, short press will change to next track and long press will lead to fast forward action  
• When the Infotainment is in BT music mode, short press will change to next track |
| 8          | NAV       | • If the Infotainment is in any screen (other than navigation) short press will take to Navigation screen. |
| 9          | ▲          | • When the Infotainment is in picture viewer mode, short press leads to next photo |
| 10         | ▼          | • When the Infotainment is in picture viewer mode, short press leads to previous photo |
| 11         | PHONE     | • When there is an incoming call, short press will accept the incoming phone call  
• When there is a second incoming call, short press will accept the second incoming phone call and put the ongoing call on hold  
• When the Infotainment is not in the phone mode, short or long press will change the Infotainment display to Phone menu |
<table>
<thead>
<tr>
<th>SWITCH NO.</th>
<th>SB BUTTON</th>
<th>FUNCTIONALITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>HOME</td>
<td>• Infotainment display will be changed to Home screen.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Button press will be ignored when the Infotainment is in Phone mode (Call active) and RPAS</td>
</tr>
<tr>
<td>13</td>
<td>MUSIC</td>
<td>• When the Infotainment is not in MUSIC mode, Infotainment will change to MUSIC mode if any valid music source is available</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• If there is an active call, this will bring the current call to an end</td>
</tr>
<tr>
<td>14</td>
<td>RADIO</td>
<td>• When the Infotainment is not in the tuner mode, Infotainment will change to the tuner mode (previously played band and frequency)</td>
</tr>
<tr>
<td>15</td>
<td>APP</td>
<td>• Feature currently not available</td>
</tr>
<tr>
<td>16</td>
<td>VOL/POWER/SEL</td>
<td>• When the Infotainment is ON Long press will switch OFF the system</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• When the Infotainment is OFF, short press will switch ON the Infotainment system</td>
</tr>
<tr>
<td>17</td>
<td>VOL/POWER/SEL (Rotary)</td>
<td>• Clockwise adjustment of rotary knob will increase the primary audio source volume</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Counter Clockwise adjustment of rotary knob will decrease the primary audio source volume</td>
</tr>
<tr>
<td>18</td>
<td></td>
<td>• Short press will drive the Infotainment to respective settings screen [Eg. if we are in radio or any media source, it will switch to audio settings, if we are in phone mode, it will switch to BT settings etc.]</td>
</tr>
<tr>
<td>19</td>
<td></td>
<td>• On short press, Infotainment will switch to previous screen</td>
</tr>
</tbody>
</table>
4.2.3 Steering Wheel Control

The steering wheel contains 7 buttons dedicated for infotainment control. Functions are described in the table below.

<table>
<thead>
<tr>
<th>CONTROLS</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Audio Mute</td>
</tr>
<tr>
<td>2</td>
<td>Volume Adjustment [Increase]</td>
</tr>
<tr>
<td>3</td>
<td>Volume Adjustment [Decrease]</td>
</tr>
<tr>
<td>6</td>
<td>Source Selection [USB/iPod/Radio/BT]</td>
</tr>
<tr>
<td>7</td>
<td>Push to talk for Voice Commands</td>
</tr>
</tbody>
</table>

4.2.4 Remote control (if equipped)

The infrared based remote control has 21 buttons and provides all the features of the fascia switches. However the activities relating to Phone access through Bluetooth® and setup will be disabled.

<table>
<thead>
<tr>
<th>REMOTE KEY</th>
<th>FUNCTION/DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power ICON/OFF the Radio</td>
<td></td>
</tr>
<tr>
<td>SRC</td>
<td>Interchange Media Sources</td>
</tr>
<tr>
<td>MUTE</td>
<td>Mute/Un-mute Audio Source</td>
</tr>
<tr>
<td>OK</td>
<td>Confirm Select</td>
</tr>
<tr>
<td>▲</td>
<td>Move Up list / Volume</td>
</tr>
<tr>
<td>▼</td>
<td>Move Down list / Volume</td>
</tr>
<tr>
<td>▶▶</td>
<td>Select Next Track</td>
</tr>
<tr>
<td>▶▶▶</td>
<td>Select Previous Track</td>
</tr>
<tr>
<td>1</td>
<td>Recall Preset Memory 1</td>
</tr>
<tr>
<td>REMOTE KEY</td>
<td>FUNCTION/ DESCRIPTION</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>2</td>
<td>Recall Preset Memory 2</td>
</tr>
<tr>
<td>3</td>
<td>Recall Preset Memory 3</td>
</tr>
<tr>
<td>4</td>
<td>Recall Preset Memory 4</td>
</tr>
<tr>
<td>5 / SHF</td>
<td>Recall Preset Memory 5 / Shuffle USB / IPod content</td>
</tr>
<tr>
<td>6 / RPT</td>
<td>Recall Preset Memory 6 / Repeat current USB / IPod track</td>
</tr>
<tr>
<td>EQ</td>
<td>Equalizer Adjustment</td>
</tr>
<tr>
<td>BAND</td>
<td>Interchange Tuner Bands</td>
</tr>
<tr>
<td>TA</td>
<td>Traffic announcement Enable/Disable</td>
</tr>
<tr>
<td>NAV</td>
<td>Respective settings screen</td>
</tr>
<tr>
<td>LIST</td>
<td>Enable USB / IPod browsing</td>
</tr>
<tr>
<td>INFO</td>
<td>Vehicle Information on Display</td>
</tr>
<tr>
<td>⬅️</td>
<td>Previous screen</td>
</tr>
</tbody>
</table>

### 4.3 Settings

The desired setting screen can be assessed by selecting setting option in respective media playing screen or short press of the settings button in the switch bank. You can also go to all setting screen via touch selection of settings icon on right top.

**4.3.1 General Settings**

- **VR Language**: Choose between English UK or English India as language for Voice recognition commands.

- **Display Units**: Choose UK or US units.

- **RESET FACTORY SETTING**: Go back to default settings.
4.3.2 Display Settings

- **Brightness**: Increase or decrease the brightness by pressing "+" or "-" button on the screen or by dragging the pointer towards "+" or "-".

- **Sleep Display**: This will determine whether clock will be shown or not when system is turned OFF by power button.

- **Auto display off**: Display will be OFF whenever infotainment is not in use for continuously 20 sec, and Auto display settings is ON during Park lamp/Head lamp ON condition.

- **Wallpaper**: Infotainment system contains customized images, user can select any one of the image and set the image as wallpaper.

4.3.3 Clock settings

- **Sync to GPS**: Select "Sync date & time to GPS" as yes or no to update the date and time from the GPS satellite. If ‘yes’ is selected then manual setting of date and time will be disabled.
• **Set date:** Using Up and down arrow keys of respective position user can set date. Date can be either in DD/MM/YY or MM/DD/YY format. After completing settings press "Set " which will save the changes.

• **Set time:** Using Up and down arrow options of respective position user can set time. Time can be either in 12 hour or 24 hour mode. AM or PM option can be selected in 12 hour mode. After completing settings press "Set " which will save the changes.

---

**NOTICE**

Ensure Navigation is active & GPS signal is available, before selecting "SYNC TO GPS" option in clock settings. Once this option is selected, system clock will get synchronized with GPS clock. Synchronization is not needed in successive Key in/out’s following a successful sync operation.

---

### 4.3.4 Radio Settings

**RDS ON/OFF:**

RDS (Radio Data Systems) allows conventional FM broadcasts to embed small amounts of digital information to be transmitted including station name &
program type. Turning on this feature will allow infotainment system to receive and decode RDS data during FM reception.

**SENSITIVITY:** In some areas the amount of traffic announcement broadcasts may become excessive. To reduce the amount of broadcasts received by the radio, the user can enable a local or distant TA filter. When local option is enabled, if the signal level of the traffic announcements is below a predefined signal strength the broadcast immediately terminates. When distant traffic announcements are enabled, all traffic announcements will be broadcast.

**AF:** AF (Alternate Frequency) allows the receiver to re-tune to another frequency of same program type when current signal becomes weak while travelling across different geographic locations.

**NEWS:** RDS radio stations have the ability to broadcast NEWS during their normal radio broadcast. The radio will handle these as a special type of broadcast and interrupt the current audio source to play the announcement.

**TRAFFIC:** RDS radio stations have the ability to broadcast special traffic announcements (TA) during their normal radio broadcast. The radio will handle these as a special type of broadcast and interrupt the current audio source to play the announcement.

**PTY SEEK:** If RDS is enabled, users can search for channels based on program types like health, sports, information etc.

**NOTICE**

Standard RDS related features will be available only when station is broadcasting the same

---

### 4.3.5 Bluetooth® Settings

The Bluetooth® (BT) is a wireless protocol utilizing short-range communications technology facilitating data transmission over short distances from fixed and mobile devices. This product supports BT 2.1, Class 2 making it possible for devices to communicate within a range of 10 Meters.

The infotainment system allows Bluetooth® devices to be paired up in order to avail certain facilities like; playing music, Phone book access, Initiate/receive call from infotainment.

The user can enable or disable BT communication with the Infotainment system by selecting the BT ON/OFF.

**To enable/disable BT traverse the path:** Settings icon in Media playing screen -> Bluetooth® Settings (Touch Selection) ->Bluetooth® ON/OFF

**Enter Bluetooth® pairing setup in following two ways;**

- Menu (Fascia Switch) -> Bluetooth® (touch selection)
- Phone (Switch bank or touch select from home screen) ->pairing setup (touch selection)
The pairing of Bluetooth® device with the infotainment system can be initiated in following way:

Searching for mobile phone / devices will be initiated, once the user selects the option “Scan for Devices” from Add Device in Bluetooth® settings screen. The infotainment system will initiate the searching for active Bluetooth® devices within its range for a maximum of 1 minute. On completion of search or CANCEL button press, the list of devices found will be shown or "No device found" screen will popup.

Upon selecting the device, the device will be prompted with a request to accept and pair. Touch ‘Yes’ in infotainment screen and select ‘Pair’ from your device to pair with infotainment system.

On completion of pairing process, the paired device will be enlisted in ‘Paired devices’ page. Phone and Music profile will get connected automatically upon pairing.

Before starting the search operation, please ensure that Bluetooth® option in the user device is turned on and is set visible.

Certain Bluetooth® devices have a time out limit. In such cases, user needs to ensure that pairing activity is completed within the stipulated duration of time.

Configuring Bluetooth® Device

The paired device can be configured as Music device, Phone device or both. This can be done by selecting ‘Paired Devices’ option in the screen.
The given device can be configured either as Music or phone device or both by selecting the corresponding option in the screen.

It is also possible to have one of two different devices as phone device and other as music device.

**Reasons for Failure to Connect with a Bluetooth® Device**

- System powered OFF
- Pressing ‘No’ in touch selection
- Ignition turned Off.
- No slot available for a new Bluetooth® device to be paired. The Infotainment system can pair with a maximum of five devices at a time. If five devices are already paired with the system, at least one device needs to be removed to add a new device to the system.

**Un-pairing / Deleting a Bluetooth® Device**

The paired device can be deleted by selecting ‘Remove Device’ option. On selecting the desired device to be deleted the Infotainment will popup the delete screen and the device will be deleted from the infotainment system.

**Auto Re-connection**

Upon Ignition turn on, the infotainment system will automatically look to pair with the last paired device, if it is available.

**4.3.6 Audio Settings**
The Bass / Midrange / Treble levels are adjustable either adjusting the scroll bar or by selecting +/- option in the infotainment display.

The equalizer mode allows user to select between several music modes such as Flat, Jazz, Pop, Rock, Voice, Classic, two predefined Mahindra Music Modes and one User defined Music Mode. Whenever any of these modes is selected, the corresponding music effects will be implemented into the current playing track.

The three pre-defined Mahindra music mode equalizer settings are:

- **Front Serenic:** When user selects this option, the audio will be available only in the front speakers
- **Rear Serenic:** When user selects this option, the audio will be available only in rear speakers
- **User Setting:** In this option, the user can customize the audio setting to his liking

Other audio settings are:

- **Balance:** The Balance setting is used to adjust the audio output between the left and right speakers
- **Fader:** The Fader defines the relative audio output of the front and rear channels. The same Bass/Treble/Balance/Fade level will be applicable for all audio sources
- **SDVC:** The Infotainment system has the function Speed Dependent Volume Control; user can enable and adjust this option through SDVC option. If this function is enabled, the volume will be adjusted automatically according to the Vehicle speed (volume increases as the vehicle speed increases and vice versa). The Volume level will change as per High, Medium or Low settings. In this case, the display doesn't show when the volume is changed.
- **Start-up Audio** Turning ON Start up Audio enables the startup music.
4.4 Radio

Default screen of the infotainment is Radio screen. You can enter into this mode via short press of [RADIO] button in infotainment switch bank or by selecting 'Radio' option after pressing 'Media' option in any of Media playing screen. The radio mode will play the audio from regional broadcasted station, provided it meets the AM / FM / RDS transmission specification.

AM Reception

At most conditions, strong AM signals provide stable sound quality and with low signal noise.

FM Reception

FM zone offers best quality sound reception; however, the signal intensity may be subjected to noise caused by:

- Limited reach of some transmitters.
- Distortion caused by signals reflected in local buildings and other obstructions.
- "Shadow zones" wherein the signal reception is obstructed or restricted.

4.4.1 Basic Radio Interface:

The screen will display 6 preset channels with a highlight on current playing station.

Any preset channel can be played by selecting the respective preset channel.

The frequency can be manually tuned or perform auto seek to tune to next active frequency channel.

Function keys on the radio interface:

- Short press to decrement frequency at a step of 0.1MHz in F.M and 9KHz in A.M & long press to execute a backward frequency auto seek.

- Short press to increment frequency at a step of 0.1MHz in F.M and 9KHz in A.M & long press to execute a forward frequency auto seek.

- Short press on this option will change the selected frequency band in order of FM1 → FM2 → AM.
Short press on AST (Auto store) option will save the 6 FM channels with better signal strength in sequential order.

Preset memory can be used to store radio stations as well as recall radio station as and when required.

4.4.2 Preset Memory

Storing a Station

- Preset functionality allows storing or selecting a given radio frequency within one of the reception ranges (FM1, FM2 and AM).
- Press & hold preset button [1]... [6] in touch screen will overwrite the previously stored frequency in that memory location with the current frequency.

Recalling a Station

Short press of a preset button [1]... [6], in touch screen will recall the radio station frequency from memory; the tuner will change to this recalled frequency.

4.4.3 RDS Related Features

If RDS is enabled & an RDS signal is received then the station name will be automatically displayed.

RDS radio stations have the ability to broadcast special traffic announcements (TA) and news during their normal radio broadcast. The radio will handle these as a special type of broadcast and interrupt the current audio source to play the announcement.

⚠️ NOTICE

TA feature will work only if Traffic announcement broadcast is available.

4.5 Playing Audio

Music can be played from following five different sources:

- Radio
- USB
- iPod
- Bluetooth® source
- Auxiliary (AUX) sources

Whenever a new iPod / USB/Bluetooth®/AUX device is inserted/connected, corresponding pop up message will appear on the screen.

⚠️ NOTICE

- It is recommended to use the USB dongle along with a data cable.
- It is advisable not to use USB devices equipped with the "password" function. If the USB device is equipped with this function, always ensure that the function is disabled.
- It is also advisable not to use USB devices with internal memory partitions.

4.5.1 Playing a Track

- Whenever any USB/IPod is plugged the very first track will start playing by default.
• AUX jack connection will make the radio change to AUX mode automatically
• During the AUX play, user cannot control the music played though the audio head unit. Operation like, seek track, fast forward/rewind etc., can be done only through the connected device
• In case of BT music, it is possible to control the operations like seek track, fast forward/rewind from the audio head unit provided the device supports the required Bluetooth® profile
• When multiple sources are connected, switching between different sources is possible by selecting the corresponding source after selecting ‘Media’ option in any media playing source

4.5.2 Basic Music Interface

Function keys on the Music screen:

![Music Interface Screenshot]

To play the current track
To pause the current track
Play next track by a short press. Long press will result in Fast forwarding of current track.
Play previous track by short press. Long press will result in re-winding of current track.

The player can also display file name, ID3 {title, artist, album}, genre of the current track & playing time.

A short press will change the repeat option. The options change in the following sequence Repeat Track -> Repeat Folder -> Repeat OFF

**NOTICE**

Certain smart phones do not support autoinitialization of Bluetooth® music. In such cases, user needs to initiate it on his/her device.
A short press will change shuffle option. The options change in the following sequence Shuffle All -> Shuffle OFF

4.5.3 List

The current media file structure can be viewed using this list operation (Short press on [LIST] button) in the infotainment switch bank or selecting the list option in USB media playing screen. The contents of the media can be browsed without affecting the music playing. The path of the current selection will also be shown/updated. When a track is selected, it is played and if a folder is selected all the tracks within it will be shown. Only valid files/folders will be shown in this screen. The icons for Files/Folder/Active folder will be shown distinctively.

To navigate within folders/tracks using the touch screen

4.5.4 Ejecting a AUX/USB/iPod

Whenever USB/iPod/BT Music or AUX source is disconnected, corresponding pop up message will appear on the screen.

Upon removal of any source, system will play the audio from previously played source [default is radio].

⚠️ NOTICE

It is always preferred to remove the USB/iPod only when the radio is powered off.

4.6 Playing Video

Infotainment system supports video files that can be played from a USB. The video play screen can be accessed from other screens via [VIDEO] button short press on fascia switch or touch select “USB Video” option from Media screen. The source button on the steering wheel can also be used to arrive to USB video.

Infotainment system avails following options in Video play mode, by single press on the touch screen (while video is playing)

Function keys on the video play screen;

To play the current video.
To pause the current video.

To seek next video track by short press. Long press will result in fast forwarding of current track.

To seek previous video track by short press. Long press will result in rewinding of current track.

⚠️ NOTICE

The video playback will not be available when vehicle is in motion.

Short press on the progress bar or by dragging the pointer user can go to the desire time of video.

4.7 Picture Viewer

Infotainment system supports viewing of image files (JPEG & PNG format). You can access the pictures from a USB and enter into picture viewer screen via “USB photo” option from media screen.

You can select any picture from the list and view the same.

4.8 Phone

Once the phone is paired with the infotainment system via Bluetooth® as a phone device, user can avail the facilities like viewing call log, contact list, receive call or initiate call using contact list or on screen numeric keypad. This mode can be entered by pressing Phone option from Home screen or phone button on switch panel.

4.8.1 Call Log

You can view the details of Received, Dialed and Missed calls on the infotainment screen by selecting corresponding option in Call log screen. You can also scroll through the list.

you can rotate the image & start/stop slide show after selecting any image.
4.8.2 Contacts

Selecting Contact option will show the contents of phone book.

4.8.3 Keypad

This option allows the user to view an on screen numeric keypad. Use this keypad to enter a number and initiate a call by pressing CALL button on the screen or button on front fascia switch or from steering column switch.

⚠️ NOTICE

The phone book contacts synced with Infotainment system can only be used when the corresponding mobile phone is paired and connected.

Infotainment system may take some time to download the contacts from the mobile phone. Download time varies based on type of mobile phone in use and the number of contacts saved.

If the contacts are not ready to be displayed then “Phone Book Synchronizing” will be displayed.

4.8.4 Incoming Call

An incoming call will be intimated to user with help of the below screens (graphics) and standard ring tone.
Accept the call from the touch screen by selecting on screen "ANSWER" button or fascia switch "PHONE" button or from steering wheel switch call accept button.

In case of any incoming call the tuner will be muted and other media like USB/iPod/AUX will be automatically paused. Upon the termination of the call the tuner will be un-muted and USB/iPod/AUX will resume automatically.

4.8.5 Outgoing Call

An outgoing call can be initiated by directly choosing a contact from the contact list or by entering a number through the on screen keypad. After selecting the contact, users will be shown with a call option which can be selected to start the call. In the case of on screen keypad, selecting the call option from screen, switch bank or from steering wheel switch control will initiate the call after entering the number.

An outgoing call will be intimated to user and the caller tune as transmitted by the network; else a standard tone for outgoing call will be supported. An active call will be shown in following way.

At any point of time during an active call, if there is a call waiting, you will be intimated of the same via on screen display. You can select to answer the new call or reject it.
4.8.6 Message

You can enable / disable the "SMS Read-out" via “Bluetooth® setting” options. Short press on "Setting" button in fascia switch & select "Bluetooth® setting" and select "SMS Read-out".

If SMS read-out functionality is ON then a message pop’s up for any new SMS, for 10 seconds. The Pop up also has beep tones for indication. You can read the message by selecting “Read-out” option.

If SMS alert is OFF then there will be no popup.

The infotainment system will read out the SMS with TTS function and also display the contents in the screen. The readout will start after a delay of 2 seconds.

If there are two or more new SMS only the last received can be read out. When SMS is read out, if another message is received, then it will not be indicated [no beep].

⚠️ NOTICE

Some “special” characters within received SMS message may not be interpreted by infotainment system.

Bluetooth® features like HFP, PBAP, A2DP, AVRCP and MAP are Phone dependent. Please refer your mobile phone owner's manual for supported profile.

4.9 Voice Recognition (VR)

When the Push to Talk (PTT) button on the steering wheel switch is long pressed for more than 2 seconds, infotainment system will enter into the VR mode with a pop up “Please say a command”.

Wait for the voice feedback “Please say a command” followed by a beep sound, to activate the voice command. Voice recognition will have 3 retrials including the initial session if there is a failure in recognition. Voice recognition can be initiated again by pressing PTT button. During VR session volume up and down operation is possible and the action will take place in the background but there will not be any popup for displaying volume increase or decrease.
4.9.1 Voice Commands

You can give voice commands to control infotainment audio related features. To activate voice command, user needs to press PTT button for more than 2 sec, wait for audio feedback followed by a beep sound and then say a valid command. The command set for infotainment system is given below.

**General Audio Commands**

The infotainment system will recognize following voice commands, to select a particular audio source.

- "RADIO" - On recognition of this command, Infotainment system will request for option in radio mode; "AM" or "FM".
- "USB"/ "Bluetooth® AUDIO"/ "IPOD"/ "AUX-IN"/ "PHONE"- to select and play from corresponding audio source. E.g., to play audio from USB, say a command "USB".

**Radio Commands**

The infotainment system will recognize the following voice commands, only if current playing source is Radio.

- "TUNE <station frequency>" - For tuning to desired frequency station. E.g., in order to tune FM frequency 98.3 say a command “TUNE 98.3"
- "SELECT PRESET <number>" - For selecting preset stations. Number can be anything between one and six. E.g., in order to select preset two, say a command "SELECT PRESET TWO"

**USB/iPod Commands**

The infotainment system will recognize the following voice commands, only if current playing source is USB or IPOD.

---

**Supported Languages are**

1. Indian English
2. U.K. English

**NOTICE**

By default U.K English is enabled, user can change the language in General Setting's menu.
• "PLAY": To play the an audio/video
• "PAUSE": To pause the current audio/video
• "PLAY NEXT": For playing next audio/video track
• "PLAY PREVIOUS": For playing previous audio/video track
• "REPEAT ON/OFF": To repeat current audio track
• "SHUFFLE ON/OFF": To shuffle the track order
• "RANDOM ON/OFF": To play random songs

Bluetooth® Audio Commands

The infotainment system will recognize the following voice commands, only if current playing source is Bluetooth® Audio.
• "PLAY": To play the an audio/video
• "PAUSE": To pause the current audio/video
• "NEXT": For playing next audio track
• "PREVIOUS": For playing previous audio track

Phone Commands

The infotainment system will recognize the following voice commands, only if mobile device is paired through Bluetooth® and phone profile is connected. Phone mode provides the following voice commands

- Dial:
  To dial a number
  To dial a number user have to say DIAL, DIALPAD in infotainment screen will appear and you will be prompted with to say the mobile number. For each and every number user will be prompted with a beep sound which indicates to say the next number, at the end of all the number being uttered user have to say END to dial the number.
  E.g. to dial 1234567891, user have to say DIAL_1_2_3_4_5_6_7_8_9_1_END

- Call:
  To call a person with contact list already available.
  To call a person whose number is saved either in Mobile/Home/Office, say CALL_NAME
  To call a person who has multiple numbers saved in Mobile, Home and Office, say CALL_NAME and then you will be prompted to say the TYPE
  E.g. CALL_ABC and say TYPE as MOBILE after the prompt.

⚠️ NOTICE

The user should understand that Voice recognition errors are inherent in the process. Neither Mahindra nor its Suppliers will be liable for any issues/concerns arising out of errors in the Voice recognition process.

Voice recognition performance depends on the user's pronunciation and accent of the voice.

4.10 E-Manual

This feature enables user to understand the significant vehicle functions easily. E-Manual contains the animated video with audio of vehicle functions.
E-manual can be accessed by selecting E-manual option in Car info page.

4.10.1 Contents
E-manual contains the animated video of following vehicle features;

- "Infotainment"
- "Cruise Control"
- "Electronic Stability Program"
- "Hill Descent and Hold Control"
- "Auto Wipe, Auto Light"
- "Sunroof"
- "Power seat"
- "Brake Energy Regeneration"
- "Logo Projection Lamp"
- "Advance Reverse Park Assist"
- "Smart Key System"

You can browse through the individual features and view the help content by selecting corresponding option. While animated video is playing, on touching anywhere in the screen, user can view "Pause" & "Close" options.

⚠️ NOTICE

E-Manual video will not be available while the vehicle is in motion.

4.11 Vehicle Information
Vehicle information will be available only in Ignition on condition. A short press on [INFO] button on fascia switch or selection of CAR INFO from home screen will take user to the information section.

4.11.1 Fuel Info

- **Distance to Empty**
  This indicates the maximum distance that the vehicle can travel with the available fuel.

- **Average Mileage**
  This indicates the overall mileage of the vehicle. Selecting "RESET" option will reset the average mileage value to zero and it begins mileage calculation from that point onwards.

4.11.2 Tiretronics
This section can be used to know, if there is any air leakage, low pressure or high pressure condition in any of the tires including the spare.
If there is no air leakage, low pressure or high pressure condition associated with a tire, then “OK” will be displayed else status message will be shown.

4.12 Alerts and Voice Messaging System (VMS) [if equipped]
Alerts will be displayed if any vehicle related alerts occur e.g. if any door is open or hood is not closed properly. Whenever there is a new alert logged, the infotainment screen is updated with alert information. Select the alert icon to see the present alert conditions.

On exiting the alert screen, the system will revert to current playing source.

If the vehicle is in motion and any of the tires develops a low pressure then following kind of alert will pop up.

4.12.1 VMS Alerts [if equipped]
This feature enables the user to avail the vehicle alerts as a voice announcement. VMS alert is heard from front speakers and also a popup alert comes up on the Infotainment System display screen.

⚠️ NOTICE
VMS Alerts can be heard even when Infotainment System is switched OFF.

Alert conditions, voice messages and corresponding infotainment screens are as below:

1. Door Ajar Alert (Common for all doors)
Door alert for the corresponding door will pop up along with audio alert once in an ignition cycle.

If acknowledged, there will be no repetition of the alert in the same ignition cycle even if the fault is not removed. Alert will be announced in the next driving cycle if fault still continues.

**Condition**

- Any door open + Vehicle Speed >10 kmph

**Corresponding action**

- If condition is TRUE announce the warning twice with 2 sec interval

**Voice message**

- "Careful! One of the vehicle door is open. Please Check"

---

Front brake worn out will pop up along with audio alert once in an ignition cycle.

If acknowledged, there will be no repetition of the alert in the same ignition cycle even if the fault is not removed. Alert will be announced in the next driving cycle if fault still continues.

**Condition**

- Front wheel brake pad worn out + Vehicle Speed >5 kmph

**Corresponding action**

- If condition is TRUE announce the warning once

**Voice message**

- "Front Brake pad is worn out. Drive with reduced speed"

---

2. Front Brake Pad Worn out

3. Low brake fluid alert
Low brake fluid level alert will pop up along with audio alert if brake fluid level. If acknowledged, there will be no repetition of the alert in the same ignition cycle even if the fault is not removed.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Corresponding action</th>
<th>Voice message</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Condition 1:</strong> If brake fluid level is low than the required level</td>
<td>If condition 1 is TRUE announce the warning once</td>
<td>&quot;Attention Please! Check the brake fluid level, it is low&quot;</td>
</tr>
<tr>
<td><strong>Condition 2:</strong> Condition 1 + Vehicle Speed &gt;10 kmph</td>
<td>If condition 2 is TRUE announce the warning once</td>
<td></td>
</tr>
<tr>
<td><strong>Condition 3:</strong> Condition 2 + distance covered &gt;5km</td>
<td>If condition 3 is TRUE announce the warning once</td>
<td></td>
</tr>
</tbody>
</table>

Driver seat belt alert will pop up along with audio alert if seat belt is unbuckled. If acknowledged no repetition of the alert in the same ignition cycle even if the fault is not removed.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Corresponding action</th>
<th>Voice message</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Condition:</strong> If driver seat belt is disengaged/open + Vehicle speed&gt;10 kmph (even if seat belt was fastened and removed while vehicle speed &gt;10 kmph)</td>
<td>If condition is TRUE announce the warning twice with an interval of 2 sec</td>
<td>&quot;Do wear your seat belt for a safe drive&quot;</td>
</tr>
</tbody>
</table>

Seat belt alert

4. Seat belt alert

5. High engine temperature alert
### Engine Temperature High Alert

- **Engine temperature high alert will pop up along with audio alert if engine temperature is high.**
- **If acknowledged, no repetition of alert in the same ignition cycle even if fault is not removed.**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Corresponding action</th>
<th>Voice message</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Condition 1:</strong> If engine temperature is 110˚C</td>
<td>If condition 1 is TRUE announce the warning once</td>
<td>&quot;Attention Please! The Engine temperature is high&quot;</td>
</tr>
<tr>
<td><strong>Condition 2:</strong> If engine temperature is 115˚C</td>
<td>If condition 2 is TRUE announce the warning once</td>
<td></td>
</tr>
<tr>
<td><strong>Condition 3:</strong> If engine temperature is 119˚C</td>
<td>If condition 3 is TRUE announce the warning once</td>
<td></td>
</tr>
</tbody>
</table>

### Low Oil Pressure

- **Above alert will pop up along with audio alert if engine oil pressure is low.**
- **If acknowledged, no repetition of alert in the same ignition cycle even if fault is not removed.**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Corresponding action</th>
<th>Voice message</th>
</tr>
</thead>
<tbody>
<tr>
<td>If oil pressure is low + Engine speed &gt; 1000 rpm</td>
<td>If condition is TRUE announce the warning</td>
<td>&quot;Attention Please! Check the oil pressure, it is low&quot;</td>
</tr>
</tbody>
</table>

7. **Hand brake**
8. Low fuel warning

**Notice**

Fuel reserve alert will pop up when the vehicle is running on reserve fuel along with audio alert for the same.

If acknowledged, no repetition of alert in the same ignition cycle even if fault is not removed.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Corresponding action</th>
<th>Voice message</th>
</tr>
</thead>
<tbody>
<tr>
<td>If low fuel tell-tale is ON and DTE&lt;=25km</td>
<td>If condition is TRUE announce the warning once</td>
<td>&quot;Your XUV500 is running in reserved fuel&quot;</td>
</tr>
</tbody>
</table>
9. Due for Service

**NOTICE**

Due for Service alert will pop up when the vehicle is due for regular maintenance service.

If acknowledged, no repetition of alert in the same ignition cycle even if fault is not removed.

10. Air Leakage

**NOTICE**

Air leakage alert will pop up when there is air leakage from any of the tires along with audio alert for the same.

If acknowledged, no repetition of alert in the same ignition cycle even if fault is not removed.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Corresponding action</th>
<th>Voice message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air leakage from any of the tires</td>
<td>If condition is TRUE announce the warning once</td>
<td>“Attention Please! There is a sudden loss in tire pressure”</td>
</tr>
</tbody>
</table>

**NOTICE**

For any visual alert pressing “EXIT” in the display alert screen closes the visual alert, but the voice alert will be announced.

4.13 Mahindra Blue Sense APP
4.13.1 Introduction

This feature enables your mobile to get connected with the vehicle infotainment system by using Blue Sense phone App. Using this App, you can access infotainment, HVAC (Climate) controls and real time vehicle information.

4.13.2 Smart Phone Compatibility

Mahindra Blue Sense APP is compatible for below platforms;

- Android Smart Phones having Software Version 4.0 and above (up to the latest)
- Windows Smart Phones having Software Version 8.0 and above (up to the latest)

You can download the Blue Sense APP from the Android “Play Store” / Windows “Store” and install in the smart Phone.

4.13.3 Features

Mahindra Blue Sense APP shall have the following features;

2. Controls – Control the Infotainment and HVAC (Climate) systems
3. Warnings – Display the Alert information in Real-time
4. Reminders – Set the personal Reminders in the Blue Sense APP.
5. Personal Info – Set the Personal Information

For more information, refer the E-Manual in Infotainment System.

4.14 Reverse Park Assist System (if equipped)

The RPAS is designed to assist the user in parking or driving the vehicle with reverse gear. The display system will warn the user about the obstacles present near the vehicle rear side, so that the user can safely drive the vehicle.

When RPAS is active, the audio source will not be interrupted and the RPAS tones will be played along with the existing audio if any obstacles are found.

RPAS is activated when reverse gear is engaged and following screen will appear where distance to nearest obstacle and direction is highlighted.

If the obstacle is closer to the vehicle (< 50 cms), then “STOP” warning will be displayed on the screen.
Advanced Reverse Park Assist System (ARPAS) assists you when reversing and maneuvering your vehicle at lower speeds. It displays the area behind your vehicle with guidelines in the Infotainment display (if camera is equipped).

It alerts you visually and through beep alert when it detect objects under 120 cm and displays alert “STOP” when the distance <=50 cm (if ultrasonic parking assist system is fitted).

⚠️ NOTICE

It is always a good habit to keep the cameras lens clean from dust. Presence of dirt can impair image quality.

Always use clear water & soft non-abrasive cloth to clean the lens.

Don’t clean the camera lens and the area around the reverse view camera with a power washer.

⚠️ NOTICE

Images shown on the display are mirror-inverted, similar to the rear view mirror.
Make sure that no persons or animals or objects are around the maneuvering area.

**WARNING**

- The reverse view camera is only a supplementary function and may display obstacles from a distorted perspective & inaccurately
- Avoid using of reverse view camera, if you are having eye color blindness or impaired color vision
- Objects above the ground /hanging may appear to be far away than they actually are. But in reality objects will be closer to your vehicle. In such cases avoid using guide lines to judge the distance. Since it leads to miss-adjustments and increase the risk of collision with your vehicle.
- It is the driver’s responsibility to identify a suitable parking area and to park his vehicle safely.
- The rear view is activated whenever the reverse gear is selected, but this cannot be used as a rear view monitoring system, and cannot replace the driver looking in to exterior/ interior view mirrors.

**NOTICE**

Infotainment screen display’s blue screen with “Contact Service Centre”, if RVC is found to be not working, until the problem gets rectified.

The reverse view camera may not operate normally, when you drive in extremely high or low temperature area. (Operating temperature: -20°C ~ 65°C)

### 4.15.1 System Activation/De-activation

Reverse View Camera get’s activated in engine running condition and if any of the below conditions occur:

- Reverse gear is engaged OR
- Gear Lever shifted to ‘R’ position OR
- Entering the camera mode RVC option under CAR INFO tab

Reverse View Camera get’s de-activated if any of the below conditions occur:

- Reverse gear is disengaged (if reverse camera was activated due to reverse gear engagement)
- Pressing the EXIT option (if reverse camera was activated due to user press of camera mode in CAR INFO tab)
- Ignition OFF

### 4.15.2 Types of Parking Modes

The Advanced Reverse Camera system has 3 modes of parking to guide parking the vehicle easily:
1. Normal Parking (with zoom)

Follow the below steps to park your vehicle;

- Start the vehicle
- Press the clutch
- Engage the reverse gear, “video with static parking guideline & dynamic parking guideline” and the distance of the object detected with audio alert is automatically displayed on the infotainment screen
- Start moving the vehicle in the reverse direction
- As per the steering wheel movement, the dynamic parking guideline moves and shows the vehicle’s actual moving direction for the user
- Steady the steering wheel to straight when the fixed parking line is in parallel to the slot in which the parking to be made and continue to maneuver the vehicle in reverse till complete

2. Angle Parking

3. Parallel Parking

Normal Parking

Select the CAR Info Tab from the home screen and then Rev Cam option. By default, the normal parking mode is selected.
Whenever reverse gear is engaged, the system indicates the obstacles behind the vehicle for a distance of up to 120 cm from the rear bumper as shown. The system alerts you through a beep alert when the obstacle is at less than 120 cm from the rear bumper. The beep sound alert increases when the vehicle gets closer to the obstacle.

### Angle Parking

This parking guides the driver to park the vehicle in a right angle parking slot, and also helps to park into 60 degree parking slots.

Select the CAR Info Tab from the home screen and then Rev Cam option.

1. **Choose the angle parking function** —

   ![Angle Parking](image)

   After selection of the Angle parking feature, then Infotainment display’s the below screen;

   ![Angle Parking Screen](image)

   After selection, then start driving the Vehicle to front of the selected parking slot and bring the vehicle to standstill, when the vehicle back side ahead of the selected parking slot and display shows the selected slot.

2. **Choose the target position to park** —

   Drive the vehicle backward and ensure the green OR blue overlay approaching the edge of the target parking slot. Stop the vehicle when the guided arc connects to the parking slot edge as shown. Turn the steering wheel to the maximum position, the green / blue overlay disappears and the dynamic/static overlay appears on the screen.

3. **Drive the vehicle backward, and finish the parking** —

   Drive the vehicle backward, turn the steering wheel back to the initial position when the static overlay becomes parallel to the target parking spot as shown. Continue backing until the whole vehicle is over the target parking spot as shown.
4. Press Exit button to go to Infotainment functions

**Parallel Parking**

This parking guides the driver to park the vehicle between the free spaces available (more than 6 m length) from one rear end of vehicle bumper parked to another vehicle bumper parked in parking area as shown.

Select the CAR Info Tab from the home screen and then Rev Cam option

1. Choose the “Parallel parking” function on HMI

After selection, the infotainment displays the below screen;

Start driving the Vehicle in forward gear to front of the selected parking slot in a way that vehicle rear side is facing the selected parking slot and camera shows the selected slot. Choose the parking position on right side or left side and make sure that no obstacles or vehicles are in the blue box area after the red pole. The red pole should match with the front/rear bumper of the parked vehicle. Red pole is used as a reference for the desired starting position as shown.

⚠️ **NOTICE**

*Ensure there is enough space [min 3 ft] sideways between your vehicle and the parked vehicle before engaging reverse.*
Start adjusting the steering wheel to desired side [left/right] and confirm the parking area. Keep adjusting the steering wheel until the box color turns to green color as shown.

**Green color:** represents suitable parking location. You can try an attempt to park.

**Red color:** represents unsafe/potential risk parking. Your vehicle may hit the side of the vehicle already parked.

**Blue color:** represents unsafe/potential risk parking. Final parking length will be larger than the desired length of parking space. May lead to wrong vehicle direction movement.

⚠️ **NOTICE**

Green/Blue/Red colors in this mode show are for guiding the vehicle to the parking slot and it would not detect the obstacles or alert the driver in that zone. It is the sole responsibility of the user to ensure there are no obstacles/vehicles which can lead to damage while parking.

3. Parking

Once the box turns to green color, hold the steering wheel in the same position and start driving back. Green color box is replaced with an arc line when the vehicle starts moving. When the arc touches the parking slot end position, stop the vehicle and rotate the steering wheel to the maximum in the opposite direction. Arc is then replaced by dynamic & static parking lines. Continue to park the vehicle in the same steering wheel position.

4. Complete parking

Return the steering wheel to center, and back the vehicle to the desired area when the fixed parking guideline becomes parallel to the desired parking slot.

5. Press Exit button to go to Infotainment functions.

4.15.3 Zoom In and Zoom Out

Press the Zoom-In button to view objects closer and press the Zoom-out button to go back to the normal parking.
4.15.4 Camera Calibration
Camera needs calibration after;

- Removal / damage or replacement of the tail gate
- Removal / mis-alignment or replacement of the Camera
- Removal / fitting of Steering Angle sensor/steering column adjustment — Requires Steering Angle sensor calibration alone, full RVC calibration process not required

Please contact the nearest Mahindra Authorized Dealer for calibrating the same.

4.15.5 Pay Attention

- If Contact Service symbol appears on the display, it means your Reverse View Camera has a potential issue. So avoid using the system
- If Camera is not working, then the Infotainment display will be shown with Blue screen with only RPAS distance information alone in the display
- If continuous STOP! message is displayed on the infotainment screen without any obstacle behind, then sensors may be having problems

- If the distance is not displayed, and if the text ERROR! appears, all the sensors / ECU may not be working or may be having system related problems

Please contact the nearest Authorized Mahindra Dealer for further assistance.

4.15.6 Reverse View Camera Systems Limitations

Under certain circumstances given below, the reverse view camera system will work with limitations or not function at all.

- In heavy rain, snow or fog
- At night or in very dark places
- If the camera is exposed to very bright light sources
- Display may get flicker, if the camera area is lit by LED or fluorescent lighting
- If there is a sudden change in temperature, from cold to hot areas
- If the camera lens got dirty or obstructed
- If the rear of your vehicle got damaged. And if the Camera position and the settings got changed. Please contact the nearest authorized Mahindra service center
- Camera image is reproduced slightly delayed and not in real time due to processing. As the display is 2-dimensional, pointed, protruding obstacles are hard to depict and thus very difficult to recognize.
- A tolerance of +/- 30cm is present in parking guidelines of Normal, Angle, Parallel Parking w.r.t real environment

Avoid using the reverse view camera in the above situations.
4.15.7 Reverse Parking Assist System Limitations

- The system may not sense obstacles such as wire mesh, handrail, small objects which are below the bumper level
- The system may not sense obstacles with cotton or spongy surfaces
- The system may alert you by sensing the ground when the bumper / sensors is not in its intended position or when the vehicle is overloaded
- The system will not sense pot holes, trenches or drainages which are below the ground level
- Fitment of rear bull bar, spare tire, vehicle footstep, tow hook or any accessories on the rear bumper and close to sensor vicinity on back side of the vehicle affects the performance of the system
- The performance gets affected sometimes due to deposition of ice, dust, heavy rain, heavy wind, heavy exhaust on the sensors / camera
- Large buildings / objects with right angle and smooth walls, underground garages, hanging objects in parking areas cannot be detected by the system

⚠️ NOTICE

Advanced Reverse Park Assist System is only meant to aid the driver and to enhance convenience while parking. It does not in any way replace the driver’s abilities and driving skills while using this system.

Under any circumstances, Mahindra accepts no responsibility and cannot be held liable for any direct or indirect, incidental or consequential damage caused by this system.

4.16 Hill Descent Control (HDC) and Hill Hold Control (HHC) Alerts (if equipped)

4.16.1 Hill Descent Control

HDC feature assists the driver to descent a stip hill maximum 50% Inclination. HDC is a user intended function. To activate press the HDC switch on the center bezel switch bank. Once the HDC switch is on, the switch will illuminate and pop up will come in the infotainment screen when vehicle is taken control by Hill Descent Control.

HDC will get deactivated automatically, if vehicle speed is more than 45 kmph. Once HDC is deactivated pop up will come in the infotainment.
4.16.2 Hill Hold Control
Hill hold control with acceleration sensor identifies gradient’s and holds the vehicle for about 3-4 secs after the brake has been released in order to prevent the vehicle from accidentally rolling backwards during a hill start.

HHC error warning will pop up if there is any malfunction in HHC function.

4.17 Auto Wipe and Auto Head lamp Alerts (if equipped)

4.17.1 Auto Head lamp
Auto light feature will be activated automatically when the external light is low or it is cloudy or while a tunnel. The auto lamp screen in infotainment will pop up during activation.

This feature will turn on the park lamp and the head lamp low beam.

4.17.2 Auto Wipe
The auto wipe feature will be activated automatically whenever it starts raining. Auto wipe pop up will appear in the infotainment screen during activation.

This feature will turn on the front wiper and also modulate the wiper speed according to the intensity of the rain.

4.18 Navigation (if equipped)
Navigation screen will be displayed by either;

• pressing NAV tab in Home screen
• pressing NAV button in the infotainment switch bank

Map will show the current location with red icon which will display the GPS signal is available or not.

GPS Navigation guidance will be functioning only if there is a valid GPS signal.
### 4.18.1 Map Screen & Symbols

The List of symbols appearing on the Map Screen is explained in the following table.

<table>
<thead>
<tr>
<th>TOUCH ICONS/SYMBOLS</th>
<th>FUNCTION/DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume option</td>
<td></td>
</tr>
<tr>
<td>Search option</td>
<td></td>
</tr>
<tr>
<td>Current location of the vehicle</td>
<td></td>
</tr>
<tr>
<td>Icon to indicate that GPS signal is available</td>
<td></td>
</tr>
<tr>
<td>Icon to indicate that GPS signal is not available</td>
<td></td>
</tr>
</tbody>
</table>

* Features described herein are subjected to availability depending on vehicle variants.
4.18.2 Select and Navigate

The various functions available in the Navigation are as follows:

1. **Navigate to** – calculates route to selected point from current location and starts guidance mode.

2. **Nearby** – Starts the search for the nearest POI's available in particular selected category.

3. **From here** – User can select this option to route his destination from any point in the map. User can touch any point in the map, one pop up screen will come showing “From Here”, once selected user can type destination. After selecting destination user has to press “Navigate to” and then “ok”.

4. **From me to here** – User can select this option to reach any point in the map from his current location. User can select any point in the map, one pop up will come where “From me to here” option will be available. User can select the option and press “Navigate to” and “Ok” to start Navigation.

4.18.3 Entering the Destination

1. Touch search icon in the map screen which will redirect to search page.

2. Double tap on any of the state or scroll through the state tab to select the state.

3. Once the state is selected write the desired destination name which will show the list of option available.
4. Select the desired destination and press the icon on the right of the destination.

**4.18.4 Route Guidance**

Once the destination is selected the page will navigate to map screen with an icon pointing to the location.

Touch ‘Navigate to’ to start the navigation.

Select ‘OK’ on the screen to start the navigation. Navigation engine will calculate the route and distance to reach destination.
4.18.5 Finding Point of Interest

To find the nearest Point of interest from any location, touch the intended location on screen and select "Nearby" option.

This will display POI lookup screen with distance, to select the POI, either filter it by Name or category, like ATM, gas station, etc.

Select the POI and press "Navigate to" which will redirect to Map screen. Select "OK" to start the navigation.

4.18.6 Menu Option

My places: it is the list of the saved places and recent destinations.
**Stored routes:** shows the list of stored routes with distance and time duration

**About-it:** shows details of the map like map version and copyright information

**4.18.7 Settings**

Navigation has the following setting options:

- **Voice:** to change the navigation audio to different regional language as per customer demand.

- **POI along the route:** if this option is selected as on it will show the nearby POIs available on the way while navigation is running.

- **Distance and time:** to set the unit of distance kilometers (km) or miles (mi). To set the time format in 24 hour mode or 12 hour mode.
To go to default setting, select 'reset to default' option.
## APPENDIX

### Abbreviations

<table>
<thead>
<tr>
<th>ACRONYM</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFP</td>
<td>Hands Free Profile</td>
</tr>
<tr>
<td>RDS</td>
<td>Radio Data System</td>
</tr>
<tr>
<td>WMA</td>
<td>Windows Media Audio</td>
</tr>
<tr>
<td>HVAC</td>
<td>Heating Ventilation Air Conditioning</td>
</tr>
<tr>
<td>TPMS</td>
<td>Tire Pressure Monitoring System</td>
</tr>
<tr>
<td>EMS</td>
<td>Engine Management System</td>
</tr>
<tr>
<td>TA</td>
<td>Traffic Announcement</td>
</tr>
<tr>
<td>AVRCP</td>
<td>Audio/Video Remote Control Profile</td>
</tr>
<tr>
<td>PBAP</td>
<td>Phone Book Access Profile</td>
</tr>
<tr>
<td>A2DP</td>
<td>Advanced Audio Distribution Profile</td>
</tr>
<tr>
<td>MAP</td>
<td>Message Access Profile</td>
</tr>
<tr>
<td>TTS</td>
<td>Text To Speech</td>
</tr>
<tr>
<td>PTT</td>
<td>Push To Talk</td>
</tr>
<tr>
<td>RVC</td>
<td>Rear View Camera</td>
</tr>
<tr>
<td>RPAS</td>
<td>Reverse Park Assist System</td>
</tr>
<tr>
<td>ARPAS</td>
<td>Advanced Reverse Park Assist System</td>
</tr>
</tbody>
</table>