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DEA600 Radio System

Introduction

The information and figures in this manual describe features that may or may not be on your specific vehicle either because they are options that you did not purchase or due to changes subsequent to the printing of this owner manual.

The DEA600 System consists of a 7” Smart Display connected to a Radio. The Smart Display functions as a main display managing the entire user interface. The Smart Display with resistive touch-screen has a rear USB for playback or USB modem connection, and manages the Applications, Phone interface, Audio, Internet and Bluetooth / Wi-Fi connections. The Radio is a module capable of managing the audio output of the system to the speakers, containing the tuner (AM, FM, WX), Sirius XM, Front Aux, Rear Aux, USB, CD. It also transmits the audio output from the Smart Display and manages the hard buttons.

IMPORTANT!: The operation of this equipment is subject to the following two conditions: (1) It is possible that this equipment or device may not cause harmful interference, and (2) the equipment or device must accept any interference, including interference that may cause undesired operation.

System Features and Functions

The DEA600 System implements the following features and functions:
- 7” display with resistive touch-screen.
- Bluetooth & Wi-Fi connectivity.
- 4 Integrated Analog Camera Inputs.
- Microphone Input (Mono).
- GPS/Navigation Application Compatibility.
- Audio Outputs.
- Voice Recognition.
- Text to Speech.
- 1 knob with center push.
- Front Aux Input / Rear Aux Input.
- USB compatibility for Apple devices.
- CD Playback.
- Front USB Connectivity (USB Playback).
- Tuner (AM/FM/WX).
- SiriusXM.
- 4/2 Speakers Output.
- Steering Wheel Control Compatibility.
- Rear Seat Audio Compatibility.
Radio

Radio Button Operation

*Volume Knob/Power*
Rotate to Increase/decrease Volume. Press Knob to turn ON/OFF the Radio.

*One-Hour Timer*
With key off, pressing the PWR button on Radio or PWR button on RSA will turn ON the receiver and activate the receiver’s one-hour timer. The receiver will turn OFF after one hour or by pressing the PWR button.

*Eject*
It removes any disc from the CD slot.

*Phone*
The Phone button is used to open the Phone App; and during a Phone Call it can be used to hang up the call.

*Dim Day / Dim Night*
The Dimming Day button is used to increment the brightness level of the Smart Display and the backlight level of the Radio bezel.

The Dimming Night button is used to decrease the brightness level of the Smart Display and the backlight level of the Radio bezel.

*Back / Home / Menu*
The Back button is used to exit the current screen and open the previous screen.

The Home button is used to go directly to the main home screen.

The Menu button is used to open the menu related to the current screen. When the System is on the Home screen, the Menu button opens the "System Settings" menu.
Smart Display

Getting Started

Using the touch screen

A “Touch” over a soft key activates or selects the corresponding function, or it opens the selected item; please see Figure 1, as reference.

![Figure 1: Touch action over Navigation App](image)

A “Swipe” action is the case when the System registers a touch and a linear streak movement over the screen. The movement can be performed to the right, left, up and down. Due to this, the System is able to discern among 4 swipes:

- Swipe Right.
- Swipe Left.
- Swipe Up.
- Swipe Down

The next right screen is presented once the system senses a Swipe Left action; please see Figure 2, as reference.

![Figure 2: Swipe to the Left action](image)

The next left screen is presented once the System senses a Swipe Right action; please see Figure 3, as reference.

![Figure 3: Swipe to the Right action](image)
The next top screen is presented once the System senses a Swipe Down action; please see Figure 4, as reference.

![Figure 4: Swipe down action](image)

The next bottom screen is presented once the System senses a Swipe Up action; please see Figure 5, as reference.

![Figure 5: Swipe up action](image)

Home screen & Navigation buttons

The installed application icons are presented at the home screen. The home screen is distributed in a home main screen and subsequent home screens. Each of the home screens present a maximum of 6 application icons, plus the Audio widget. The number of the subsequent home screens is relative to the number of installed applications. Each subsequent home screen is added to the right of the main home screen or next to the right of the last subsequent home screen. An indicator identifies which home screen is displayed. The screen indicator is placed below the top bar of the home screen.

The following Applications are presented at the Home Screen as default (Figure 6):

- Gauges
- Navigation
- Audio
- Phone
- Camera Views
- Clock
Each application icon works as the application activation soft key. The System has the capability to rearrange the application icons according to the user needs. The basic sequence is (see Figure 7 as reference):

- Select the desired application.
- Press, and hold, the application icon to "grab" it.
- "Drag" the icon to the desired location by moving the application to this one.
- "Drop" the icon by releasing it.

At the top bar of each screen are the Notification and Status bars. The Notification bar presents the following information, if available:

<table>
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<th>Icon</th>
<th>Meaning</th>
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<tr>
<td></td>
<td>Downloading Data</td>
</tr>
<tr>
<td></td>
<td>CD Warning</td>
</tr>
<tr>
<td></td>
<td>CD Source available</td>
</tr>
<tr>
<td></td>
<td>New SMS/text message</td>
</tr>
<tr>
<td></td>
<td>Software update available</td>
</tr>
<tr>
<td></td>
<td>CoPilot Truck navigation running</td>
</tr>
<tr>
<td></td>
<td>WiFi network available</td>
</tr>
<tr>
<td></td>
<td>More icons available</td>
</tr>
</tbody>
</table>

The Notification Bar accepts the swipe down action in order to present more information related to the displayed icons.

Also, the Status bar presents the following information, if available:
The System presents four soft key navigation buttons at the bottom of the screen:

- Back
- Home
- Menu
- Voice Recognition

The Back soft key is used to exit the current screen and open the previous screen. *The Back soft key button doesn’t have any effect on the home screen.*

The Home soft key is used to go directly to the home screen.

The Menu soft key is used to open the menu related to the current screen (for example, *Figure 8*); when it is used in the Launcher the Menu soft key will open the System Settings menu (*Figure 9* and *Figure 10*).

The Voice Recognition soft key starts the Voice Recognition application.
When the System is turned OFF, the clock view illustrated on will be shown (Figure 11).

When the Driver Distraction Avoidance (DDA) mode is active, some application icons from the home screen are grayed out and cannot be selected by the user, see Figure 12 as reference.

Dim Day / Dim Night
The Dimming level is indicated each time the Dim Day, or Dim Night, button is pushed (Figure 13).
Volume
Volume level is indicated each time the volume knob is turned (Figure 14).

Volume mute condition is also reported at the Status bar (Figure 15).

Mute
This feature is used to mute the radio due to an external event in the vehicle. The radio remains MUTE while event is active.

If this event occurs, the Media sources are paused. Once it ends, the System continues playing the media.

There are some actions that can cancel this mute like: Alarm notification, volume changes, media insertion, a Bluetooth call, among others.

Reverse Mute
The radio is muted if the reverse gear is selected. This interruption is ignored if the radio is on a Bluetooth phone call.

Selecting any transmission gear different than reverse cancels the mute (starts the media).

Audio Application
The Audio application is located on the home screen of the Smart Display (Figure 16). All Music source are accessed and managed via the Audio app.
The Audio sources are presented to the user in a tab-bar at the top of the application screen, with each Audio source working as a soft key selector; the selected Audio source icon is highlighted. The System does not allow the selection of more than one Audio Source option at a time. If the System senses the selection of the current Audio source option no change will take place.

The System supports 9 different Audio sources: 5 Media sources and 4 Radio sources.

**Media Sources**

The System displays 5 Media sources at the main Audio sources tab-bar:

- USB
- CD
- Aux
- Bluetooth
- Rear Aux

If media audio source are not available, the corresponding icons are displayed in gray.

**Media Audio Control Soft keys**

The System presents the next control soft keys as part of the Media sources interface:

- Play/Pause
- Next
- Previous
- Repeat
- Shuffle
- Views

In the case the CD media, USB or the Bluetooth media source are selected, the user interface is illustrated in Figure 17.
Fast forward function is activated by long pressing the next soft key for 2 seconds. Fast reverse function is activates by long pressing the previous soft key for 2 seconds.

**Views**
The System presents the view soft key, when it is selected (Figure 19), the following options are displayed:

- Artists
- Albums
- All Songs
- Playlists
- Search

For Apple devices the System supports the following additional views:

- Genre
- Composer
- Audio Books

**Artist**
The System presents the albums allocated by artist, illustrated on Figure 20.

All the artists in this mode work as a soft key. Once an artist is selected, the System starts to play all the media files related.

For Apple devices the artist view screen follows the distribution and styling Figure 21 illustrates.
Once an artist is selected the System displays the list of the contained albums, as shown in the Figure 22.

![Figure 22: Apple Artist’s Albums View](image)

The System displays up to 5 items per screen. In the case there are more than 5 albums, the remaining albums are shown in subsequent screens below. All items in the list work as a soft key button selector.

**Albums**

The albums view screen follows the distribution and styling as the Figure 23 illustrates.

The System displays the albums contained in the media source selected. The albums are displayed in a grid manner. Up to 10 album icons are displayed per screen. In the case there are more than 10 albums, the remaining album are distributed in subsequent screens available by scrolling right.

Each album icon works as a soft key selector. The albums are distributed by 5 columns of two albums per screen. Each Album grid displays the Album image (if available), Album name and Artist name. If the Album name is not available the label "Unknown" is displayed. If the Artist name is not available the label "Unknown" as the artist name is displayed.

If one album is selected, the System starts to play all the media files related.

In the case the album artwork is not available the System displays a standard album icon as Figure 24 illustrates.
For Apple devices the album view screen follows the distribution and styling illustrated on previous Figure 22.

Once an album is selected the System displays the list of the contained songs. The System displays up to 5 items per screen. In the case there are more than 5 items the remaining items can be viewed by scrolling down.

**All Songs**

Once the All Songs view is selected the System displays the list of the contained songs. Up to 5 songs are displayed per screen. In the case there are more than 5 songs, the remaining songs are distributed in subsequent screens. All songs in the list work as a soft key button selector. Once a song is selected, the System plays the selection.

**Playlists**

The System presents the playlists contained in the connected device following the distribution and styling Figure 25 illustrates.

**Search**

If the Search tab is selected, the search screen is displayed with the following elements:

- White Box
- Keyboard

The Keyboard works as the user-system interface to acquire the alpha/numeric search. The white box displays the acquired information. The System continue playing audio while performing the search. The Figure 26 illustrates the search screen.
The Views soft key button is not available for the next Media sources:

- CD
- Aux
- Bluetooth
- Rear Aux

In the case the Rear Aux media source is selected, the user interface shall follow the distribution and styling as illustrated in Figure 27.

In the case the Aux media source is selected, the user interface shall follow the distribution and styling of the Figure 28.
Playing from a USB

The USB port is in the front of the Radio. Five volts DC power is limited to one amp from this port. Devices such as iPod that require greater current will not charge from this port.

1. Connect the USB.
2. The USB Source media is automatically selected and plays the media content of the USB device if no other app of higher priority is in use (I.E. phone call, video, reverse mute...).
3. To control and browse the selected media source refer to sections Media Sources and Media Audio Control Soft key for further information.

Drives

The USB MP3 players and USB drives connected must comply with the USB Mass Storage specification:

- MS-Dos partition only
- Class specification (USB MSC) and supports formats of FAT32, FAT16, NTFS, and HFS+
- Hard disk drives may be played, but they are not supported.
- The radio will not be able to play back write-protected music.
- MTP players are not supported.

For MP3 Files

MP3 files must meet the following guidelines for proper playback:

- **Bit rates:** 32, 40, 48, 56, 64, 80, 96, 112, 124, 160, 192, 224, 256, 320 kbps for MPEG-1 Audio Layer 3
- **Sampling frequencies:** 32, 44.1 and 48 kHz for MPEG-1 Audio Layer 3
- Maximum number of folders: Eight folders with 255 files per folder
- Maximum of 1,000 files on a disc
- M3u andpls playlist versions supported
- Recorded on a CD-R or CD-RW with a maximum capacity of 700 MB

Error Messages

If an “UNSUPPORTED” message is displayed, it could be for one of the following reasons:

- When a MTP Player or a USB device with unsupported format or partition is connected.
- When the device is damaged.
- When the connected device was not connected as mass storage device.

If “NO MUSIC” message is displayed, it could be because there are no playable MP3 files.

iPod

This Radio supports the following iPod models:

- iPod classic® (6G)
- iPod nano® (6G, and 7G)
- iPod touch® (4G, and 5G)
- iPhone® (4S, 5, 5C, and 5S)

Other iPods may be played, but functionality is not guaranteed.

The radio provides up to 1A of charge, so any device connected to the USB that requires less than 1 A will be charged.

There may be problems with the operation and function in the following situations:

- When connecting an iPod on which a more recent version of the firmware is installed than is supported by the Radio.
- When connecting an iPod with firmware from other providers is installed.

Playing from an iPod

To connect an iPod:

1. Connect one end of the standard iPod USB cable to the iPod's dock connector.
2. Connect the other end to the USB port in the front of Radio.
3. Radio will start playing the USB and shows the track number, Song, Artist, elapsed time, and album information when available.

4. If the iPod is an unsupported model, it can still be listened to in the vehicle by connecting to the auxiliary input jack using a standard 3.5 mm (1/8 in) stereo cable.

5. To control and browse the selected media source refer to sections Media Sources and Media Audio Control Soft key for further information.

Expected behavior when iPod is connected:
- The iPod battery recharges automatically while the vehicle is on.
- The iPod shuts off and stops charging when the vehicle is shut off.

Error Messages
If an “UNSUPPORTED” message is displayed, it could be for one of the following reasons:
- When the iPod connected is not supported.
- The iPod does not respond to the radio commands, in this case reset the iPod and try again the connection.

If a “NO MUSIC” message is displayed, it could be because there are no playable files in the iPod.

CD Player
The player can be used for CD and MP3 audio. With the vehicle on, insert a disc into the slot, label side up, the player pulls it in and begins playing.

The system is capable of playing:
- Most audio CDs
- CD-R or CD-RW with MP3 files

When playing any compatible recordable disc, the sound quality can be reduced due to disc quality, the method of recording, the quality of the music that has been recorded, or the way the disc has been handled. There can be increased skipping, difficulty in recording tracks, difficulty in finding tracks, and/or difficulty in loading and ejecting. If these problems occur, check the disc for damage or try a known good disc.

To avoid damage to the CD player:
- Do not use scratched or damaged discs.
- Do not apply labels to discs. (The labels could get caught in the player).
- Insert only one disc at a time.
- Keep the loading slot free of foreign materials, liquids, and debris.
- Use a marking pen to label the top of the disc.

To load a disc:
1. Turn the vehicle on.
2. Insert a disc into the slot, label side up. The player pulls it in the rest of the way. If the disc is damaged or improperly loaded, there is an error on the screen and the disc ejects.
3. Press “Eject” to eject a disc from the CD player. If the disc is not removed within a short period of time, it is automatically pulled back into the player.

Playing an Audio CD:
1. After the CD is inserted, the mode is changed to CD mode, unless any mode with a higher priority is active (I.E. phone call, video, reverse mute…).
2. To control and browse the selected media source refer to sections Media Sources and Media Audio Control Soft key for further information.

Error Messages
If a ‘Disc Error’ message is displayed and/or the disc comes out, it could be for one of the following reasons:
- The disc has an invalid or unknown format.
- The disc is very hot. Try the disc again when the temperature returns to normal.
- The road is very rough. Try the disc again when the road is smoother.
- The disc is bent.
- The disc is dirty, scratched, wet, or upside down.
- The air is very humid. Try the disc again later.
There was a problem while burning the disc.
The label is caught in the CD player.
If the disc is not playing correctly, for any other reason, try a known good CD.
If any error continues, contact your dealer.

For MP3 Files:
MP3 files must meet the following guidelines for proper playback:
- **Bit rates:** 32, 40, 48, 56, 64, 80, 96, 112, 124, 160, 192, 224, 256, 320 kbps for MPEG-1 Audio Layer 3
- **Sampling frequencies:** 32, 44.1 and 48 kHz for MPEG-1 Audio Layer 3
- Maximum number of folders: Eight folders with 255 files per folder
- Maximum of 1,000 files on a disc
- M3U and PLS playlist versions supported
- Recorded on a CD-R or CD-RW with a maximum capacity of 700 MB

Special Considerations
Root Directory:
The root directory is treated as a folder. All files contained directly under the root directory are accessed prior to any root directory folders.

Empty Folders:
If a root directory or folder is empty or contains only folders, the player advances to the next folder in the file structure that contains a compressed audio file. The empty folder(s) are not displayed or numbered.

Front Auxiliary
Front auxiliary input is active when a jack connector is inserted. After the connector is inserted, the mode is changed to Front Aux mode, unless any mode with a higher priority is active (i.e. phone call, video, reverse mute…). This operation is not available while the System is in standby power mode. In front auxiliary mode, you can play an external device such as an iPod® or MP3 player via the auxiliary input jack on the front of the receiver. To use an external device simply connect the device via the auxiliary input jack.

Front auxiliary mode will not be available if no device is connected to the auxiliary input jack on the front of the receiver.

Bluetooth Player
If your connected device supports this feature, it can be used as an audio source input to the radio, allowing you to enjoy the music files stored on your phone.

This feature is recommended for use with the default device player. Functionality cannot be warranted, when a third party player is used in the connected device. The radio can be out of synchrony if the user alters or command the player within the phone.

Playing Bluetooth Audio:
1. Pair device to Smart display. Refer to Bluetooth Settings for further information.
2. To control and browse the selected media source refer to sections Media Sources and Media Audio Control Soft key for further information.

Notes:
- **Repeat and random functions will only be shown if the cell phone supports these features.**
- The contacts shown on the radio display will depend on the information received by the radio from the phone device used.
- Functions may differ depending on the phone. Please consult your cell phone user guide regarding how to enable it.
- Some phones will make the radio display BT AUDIO PAUSE while audio is available. This is normal on phones that do not have full compatibility with this radio Bluetooth remote control commands.
- Some devices will disconnect Bluetooth when a transfer is performed.

Rear Auxiliary
The DEA600 is not safety product.
The cameras and the rear auxiliary inputs are provided for driver conveniences only.
The purpose of this stereo input is to connect the audio output of an external source or a sound channel from a safety system. When the source is an external Navigation audio input the system detects activation of the...
navigation system and the Rear Aux is set automatically, if no other source with higher priority is active (I.E. phone call, video, reverse mute…). During this Mode, the Radio streams the audio from the Navigation system on the speakers (Stereo Signal). This operation is available under the following conditions: With Ignition ON and System ON: the radio shall change to REAR AUX IN mode.

If the Navigation audio is deactivated, then the radio shall switch to the last source (if available) if not, the radio shall return to the last tuner mode.

**Radio Sources**

The System displays the 4 Radio sources into the next to the right subsequent tab-bar as illustrated on Figure 29:

- AM
- FM
- SiriusXM
- WX

![Figure 29: Audio App Tuner Sources](image)

There are 7 presets for WX, 12 presets for FM, 12 presets for AM and 18 presets for SXM; 6 presets will be shown on each screen. Additional presets can be viewed by swiping the preset bar. Each preset works as soft key button selector.

In order to save a station in to a memory:

- Tune to the desired station.
- Press and hold one of the 6 presets.
- When the selected station is displayed on the preset, the station has been saved in the selected preset.

The System displays the current tuned frequency along with the corresponding radio Band.
The systems display a specific screen interface for the SiriusXM source.

**AM/FM**

The System presents the following control soft keys as part of the AM/FM radio source interface:

- Next
- Previous
- Scan
- Strong Station list
- Update List

To perform SEEK UP function it is necessary to press and release NEXT soft key on the screen.
To perform SEEK DOWN function it is necessary to press and release PREVIOUS soft key on the screen.
TUNE UP is performed by pressing and hold NEXT soft key.
TUNE DOWN is performed by pressing and hold PREVIOUS soft key.
The AM/FM radio sources screens follow the distribution and styling previous Figure 29 illustrates.

**WX**

The WX band is for Governmental weather radio services frequencies; the radio can tune 7 weather channels.
The System presents the next control soft keys as part of the WX radio source interface:
The System presents 7 presets for this application. To save stations in to preset follow the AM-FM instructions.

The WX radio source screen is illustrated in Figure 30.

Sirius XM
In the case the Sirius XM source is selected the system displays the current tuned channel number and name. The system presents the next control soft keys as part of the Sirius XM interface:

1. Category Browse control/Indicator
2. Scan
3. Direct Tuning
4. Buffer Indicator Bar
5. Replay Control
6. Go Live Control
7. Tune Scan Control
8. Channel Browsing
9. Presets (Smart Favorites)

The SiriusXM user interface screen is illustrated in Figure 31.

The channel number in the screen works as a soft key.

If channel art is not available it is replaced by the SiriusXM logo.

The System activates the Scan function in the case the Scan option is selected.

The System displays up to 18 presets memories in a tab divider manner at the bottom of the screen interface. To save stations in to preset follow the AM/FM instructions.

The System displays a pop-up sub menu in the case the Menu button is selected while in this screen. The pop-up sub menu presents the next options as Figure 32 illustrates:
Each of the options in the pop-up submenu works as a soft key. The System opens the Audio Settings in a separate screen in the case this option is selected. In the case the SiriusXM Settings are selected, the System displays the next configurable options in a separate screen (see Figure 33 & Figure 34 as reference):

- Preset View
- Category Browser
- Channel browser Auto select
- Auto select timer
- Tune start
- Reset Default

In the case the Category List option is selected, a separate screen opens listing all the available categories. See Figure 35 as reference.
The listed elements work as a soft key. In the case the channel list option is selected, a separate screen listing all the available channels is presented. See Figure 36 as reference.

In the case the “Direct tuning” soft key is selected, a numeric keypad is displayed as Figure 37 illustrates. It can be used to select a specific channel.

Audio Widget

The Audio Widget is displayed at the right of the home screen, and it displays the Media and Radio source in case any source is active.

Media source

The Audio Widget presents the available song info such as the artist name, album name, and song name. The widget supports the following configuration based on the Media sources selected:

- USB
- Bluetooth
- AUX
- Rear Aux
- CD

The Audio Widget presents the next audio controls for the USB, Bluetooth and CD configurations:
For USB, the Audio Widget is presented as Figure 38 illustrates.

The Audio Widget displays the art work corresponding to the playing song if available. The Audio Widget shall display the generic art work in case there is no artwork for the playing song (see previous Figure 24 as reference).

The Audio Widget displays the song name and the artist for Bluetooth Audio (see Figure 39 as reference).

The Audio Widget displays the song name and the artist for CD source (see Figure 40 as reference).
The Audio Widget does not present audio controls for the AUX, & Rear AUX; see **Figure 41** & **Figure 42** as reference.

**Radio source**

The Audio Widget shall display the next audio controls for the Radio source configuration:

- Previous
- Next

The Audio Widget shall present the Radio band selected and the frequency tuned. Illustrated in: **Figure 43**, **Figure 44**, **Figure 45**, & **Figure 46**.
Phone

Once your device is properly paired (see Settings / Bluetooth section), System supports Hands Free Phone features if the connected device has that capability. Open the Phone App located on the home screen of the Smart Display as illustrated on Figure 47.
The Phone screen interface presents these elements (as is illustrated on Figure 48):

- Numeric Keyboard
- Call Button
- Search Bar
- Contacts Tab
- Recent Calls Tab
- Favorites Tab
- Add Contact Tab

A loading image is displayed during the contact list synchronization. See Figure 49 as reference.

Figure 48: The Phone screen interface

The System captures the number to dial from the displayed numeric keyboard. In the case the System detects the activation of the call button the System starts with the dial process.

Contacts

The contact options are open as the default option. The System displays up to 4 items per screen. In the case there are more than 4 items, the remaining items are distributed in subsequent screens below. See Figure 48 as reference.

A loading image is displayed during the contact list synchronization. See Figure 49 as reference.

Figure 49: The contact list synchronization screen

If failure is present during the contact synchronization, message “No Contact available” is displayed. See Figure 50 as reference.

Figure 50: The no contact list loaded screen
The System activates the search function in case white box is selected. In the case the search function is activated, the System displays a keyboard, see Figure 51 as reference.

![Figure 51: The search contact screen]

The System is able to capture the information introduced and performs a contact search based on it. In the case a contact is selected, the System displays the contact information screen.

**Contact Information**
The contact information displays the following information, if available. See Figure 50 as reference:

- Contact Name
- Company
- Phone 1
- Phone 2
- E-mail
- Address

![Figure 52: The Contact information screen]

**Favorites**
If Favorites option is selected, the 8 favorite contacts are displayed as Figure 53 illustrates.

![Figure 53: The 8 favorite contacts screen]

Each of the favorite contacts works as a soft key. If a contact is selected, the dialing process is performed.
In order to save a contact as favorite select the desired contact and press and hold the desired phone number until the pop-up message “Are you sure you want to add the contact into favorites?” is displayed, then “Ok” option shall be selected.

**Making a Call**

You can call a contact directly from the previously stored contact information if the item Phone 1 or Phone 2 is selected; the System uses the information there to start the dialing process. You can also dial a new number directly on the dial pad and tap the green phone soft key; the System uses the information there to start the dialing process. You can also start the call from a connected device. The Figure 54 illustrates the dialing process.

![Figure 54: The dialing process screen](image)

**Recent calls**

In the case the Recent Calls option is selected, the System displays the history of the calls. The System displays up to 4 items per screen. Each listed item presents the following information; see Figure 55 as reference:

- Contact name
- Event indicator; Received call, Made call or Missed Call
- Time of when the event was performed

- The Received call indicator is represented with a Blue arrow.
- The Made call indicator is represented with a Green arrow.
- The Missed call indicator is represented with a Red arrow.

**Incoming Call**

The "incoming call screen" is displayed in case the System detects an incoming call. The incoming call displays the next information and soft key selector, see Figure 56 as reference:

- Contact name
- Contact number
- The "incoming call" label
- Accept call soft key selector
- Reject call soft key selector

![Figure 55: The history of calls screen](image)
In the case the System detects the selection of the Reject soft key the system cancels the incoming call.

In the case the System detects the selection of the Accept soft key the System allows the incoming call. Audio is distributed to the vehicle front left speaker. Also, the System displays the current call screen with the following information and soft key selectors (see Figure 57 as reference):

- Contact name
- Contact number
- Hang Up soft key selector
- Mute soft key selector
- Keyboard activation soft key selector
- Second call
- Transfer call

In the case the System detects the selection of the Hang Up soft key the call is ended.

If the Mute soft key is selected, the System disables the microphone.

If the Transfer soft key is selected, the System transfers the call to the connected device.

If the System detects the selection of the second call soft key the current call is placed on hold allowing the user to dial another number.

If the System detects the selection of the keyboard activation soft key a pop-up numeric keyboard is displayed. See Figure 58 as a reference.
Messaging

If the Messaging App is selected, see Figure 59 as reference, the System displays the received text messages in a list manner grouped by conversations, see Figure 60 as reference.

The following information and options are available:

- Contact name
- Message
- Hear last message soft key
- Time
- Search soft key
- New message soft key

Up to 4 messages are displayed at a time. If there are more than 4 messages, the remaining messages are placed in subsequent screens.

Up to 10 conversations can be available with the 10 most recent messages from each conversation.

The System provides the following options upon message notification shown on the screen: Hear when DDA is active or Rear when DDA is not, Ok and Dismiss, see Figure 61 as reference.
The SMS message information is displayed and provides a predefined message list to replay with, as follows, see Figure 62:

1. Can’t answer right now.
2. I’m driving, call you later.
3. I’ll contact you later.
4. What’s up?
5. Personalized

The System sends the selected message or opens the message editor or application for the user to write the desired text, see Figure 63.

While the vehicle is in motion (parking brake is not set or vehicle speed is more than 5 km/h), the Personalize option is disabled.
Messaging with Apple devices

For Apple devices, “show notifications” must be enabled on the Apple device for the DEA600 device after pairing via Bluetooth for the System to display notifications of new text messages. This setting is available in the Apple device’s Bluetooth menu under the DEA600 device. Reconnection to the system is required for the SMS to be properly connected. Apple devices do not allow downloading of existing SMS messages or sending new SMS messages from the System. Only new messages can be read/hear using the System.

Apps

Only authorized Applications can be installed on the System. Contact your dealer for further information.

Navigation

Truck-specific navigation is provided by the ALK CoPilot Truck Navigation app. Open it by selecting the Navigation app from the Home screen as shown in Figure 64.

CoPilot Truck provides truck-specific routing based on the truck profile set within the CoPilot Truck menu. To change the truck profile, open the CoPilot main menu → Route → Truck Routing Profile. Ensure that this profile is set correctly as the route calculated and warnings displayed are based on these settings. A new destination can be set in the CoPilot main menu under Go To → Address. Points of Interest including truck services, restaurants, service stations and dealerships are available in the Points of Interest menu item. A complete user guide for CoPilot Truck is available at http://apphelp.copilotgps.com/copilottruck/en-gb/.

Clock

Open the Clock App by selecting it on the Home main screen, see Figure 65 as reference.

The Clock screen is presented on Figure 66. The application is able to present time in different cities locks; it also has Stopwatch, Timer and Alarm options.
In the case the alarm icon is selected (left lower corner), the System presents the following screen, Figure 67, and the following options:

- Alarm On/Off control
- Alarm source setting
- Alarm volume setting
- Hear Reference Volume On/Off control

Each item of the alarm list works as a soft key and can be activated or deactivated with the On/Off select soft key.

If the alarm hour is selected a numeric pop-up pad is presented, see Figure 68 as reference. The time set on the numeric pop-up pad is used to set the alarm once the OK soft key is selected.
The Tone items that can be selected as the audio source are:

- Tone
- Radio FM
- Radio AM
- SiriusXM

Once the alarm is set, the alarm indicator icon is displayed in the top bar of the home screen. See Figure 69 as reference.

![Figure 69: The alarm indicator icon](image)

Once the Alarm is activated a screen with the option Snooze or Dismiss appears, see Figure 70.

![Figure 70: Snooze / Dismiss Alarm screen](image)

**Camera Views**

*The DEA600 is not a safety product. The cameras and the rear auxiliary inputs are provided for driver conveniences only.*

Open the Camera Views App located on the home screen as illustrated on Figure 71.

![Figure 71: Open Camera Views App](image)
Application Interface
The Camera Views App presents the view of the 4 cameras installed on the vehicle one at a time, each of the camera views option work as a soft key. The System displays the camera view corresponding to the soft key selected.

The System presents the Reverse view as default once the application is opened.

The application presents the next activation soft keys relative to each of the available views, see Figure 72 as reference:

- Reverse View
- Forward View
- Right View
- Left View

The application indicates the current activated view. The forward camera image is mirrored (left to right) to provide a correct image.

Automatic Cameras View
The following camera views are activated automatically under certain scenarios:

- Reverse View
- Right View
- Left View

The System activates the Reverse View in case the vehicle is put in reverse (if the automatic view function is activated).

The System activates the Right View in case the right turn signal is activated (if the automatic view function is activated).

The System activates the Left view in case the left turn signal is activated (if the automatic view function is activated).

The System informs the user which camera view is activated. The forward camera view can only be activated manually.

The System provides the Automatic Camera View activation/deactivation configurable options and Camera App Settings by pressing the Menu button on the navigation bar.

Details for the Camera Application Settings are described under the Settings section of this document.

Gauges

*This feature may not be available in all vehicles.*

Open the Gauges App located on the home screen of the Smart Display as illustrated on Figure 73. The system displays the Gauges screen interface.
The Gauges app can handle up to 30 gauges distributed in 5 screens as Figure 74 represents.

Gauges are updated with information collected from the vehicle CAN bus. The Virtual Gauges app shows the last selected page each time that the application is opened.

The default page (page 1) is displayed in the Virtual Gauges app in the following cases:

- The first time the Virtual Gauges app is opened after an ignition or battery power cycle.
- When the last selected page is not available.
- When the last selected page does not contain any gauges.

Gauges

This manual describes the general function of the Virtual Gauges. Please refer to the vehicle’s owner’s manual for information about the functionality of individual gauges.

Gauge States

Each gauge is capable of 3 different states (when available):

1. Regular State, Figure 75.
   This state includes Metric or English rates.

   ![Figure 75: Oil Temp Gauge in normal state](image)

2. Warning States, Figure 76.
   In this state the Gauge Turns Red.
   - If Gauge reaches an out of range condition, the virtual gauge Pops-Up larger on the screen. The pop-up may return to its original state per user interaction.
Figure 76: Oil Temp Gauge in warning state

3. Error States (Needle Deflection).
   - If Data is not available, the gauge pointer shall automatically be positioned in - 15° from the Null position and stay in that position until data is available.
   - If the gauge is under scaled, the gauge pointer will automatically be positioned in - 5° from the Null position and stay in that position until the data is rescaled.
   - If the gauge is over scaled, the gauge will pointer automatically be positioned in + 5° from the Null position and stay in that position until the data is rescaled.

Virtual Gauges Pop-up
All the Virtual Gauges function as soft keys, each Virtual Gauge soft key toggles to a full screen zoom of the gauge when the user presses the Virtual Gauge soft key.
While the Virtual Gauge is toggled to full screen zoom, a press of the screen returns the gauge to its original size.
If the user presses the screen while the Virtual gauge is in the process of toggling to a full screen zoom, the Virtual Gauges app cancels the full screen zoom toggle.
Gauges are automatically toggled to full screen zoom when a Warning State is present.
If a Virtual Gauge has been toggled to full screen due to a warning condition and another Virtual Gauge presents a warning condition, the first Virtual Gauge in a warning state will be displayed for at least 3 seconds. After 3 seconds, the Virtual Gauge in a full screen state due to a warning state will return to a normal state allowing the second Virtual Gauge in a warning to state to toggle to full screen.
All the Virtual Gauges minimized after being in full screen due to a warning state remain in the warning state in their original size while the warning condition of the gauge persists.

Gauges Settings
Pressing the Menu soft key or hard key of the Virtual Gauges app presents a pop-up menu with the following elements. See Figure 77 as a reference:

- Preset 1 - Soft key
- Preset 2 - Soft key
- Edit Presets
- Load Updates
- Factory Reset

Figure 77: Gauges settings pop-up

Presets
Presets are used to define personalized views of the gauges. Two presets are available to save different combinations of the available gauges.
Pressing the "Edit Presets" option from the settings pop-up allows editing of the Presets. Once the desired modifications are done, select the OK soft key
to save changes or CANCEL soft key to discard changes. See Figure 78 as reference.

The preset selection pop-up menu is displayed in order to specify which preset memory should be used to save the new layout. See Figure 79 as reference.

The General Settings screen shows the page numbers in their 3 states (Selected, Active and Disabled) as defined for the app. The default page selected when accessing the General Settings in the Virtual Gauges app is the page 1. The General Settings screen from the Virtual Gauges app show the active virtual gauges. The Default Virtual Gauges priorities and the User defined Virtual Gauges priorities are saved on the memory.

**Preset Updates**
The default preset established is the one selected when the General settings screen is opened.
The Virtual Gauges app allows the selection of one of the Presets at any time by pressing the soft key.
If a Preset is selected while the other preset is active, the Virtual Gauges app saves the changes in the Preset previously active and then switches to the selected Preset, updating the position of the active gauges according with the priority level in stored the Preset.
During the saving of a preset or a restoration of the default presets the Virtual Gauges app shows a pop-up with the label "Processing..." while the operation is performed.
The Virtual Gauges app updates the priority level of the virtual gauges as they are reorganized by the user, changing the priority level of the selected gauge for the priority of the gauge in the target position selected by the user. This will allow the Virtual Gauges app to keep the Virtual Gauges positions as defined by the user without fixing the gauge position to a slot.
All the updates in the virtual gauges priority level are saved in the preset selected as User Defined Virtual Gauges priorities.
The User Defined Virtual Gauges Priorities does not modify the Default Virtual Gauges Priorities.

**Gauge Population**
Automatic arrangement is used to identify available gauges. The population of the gauges for the Automatic arrangement depends on the priority preset selected.
The priority preset is configurable through the Settings menu of the Virtual gauges app.
Automatic Population
The Virtual Gauges are populated by adding gauges if the related vehicle information is available. The Virtual Gauges app adds available gauges following the priority established.

The actual Virtual Gauges page from the Virtual Gauges app page is highlighted, allowing the user to differentiate it from the disabled pages and from the active pages that are not selected as the actual page.

The Standard Priority list of gauges have a higher priority than the Optional Gauges, even if a given gauge from the Optional gauges shares a priority level with a gauge from the Standard Priority gauges.

If not Available information for a specific Gauge is received from the vehicle information bus is received the related Gauge will be hidden upon the next key cycle. Some virtual gauges show a specific icon in the case of a not available gauge.

The Virtual Gauges app pages for gauges population are disabled if there are no gauges in the page. The disabled Virtual Gauges app pages are displayed in an opaque manner.

The active Virtual Gauges app pages are displayed in clear way which allows the user to differentiate between the actual page and disabled pages. As the optional virtual gauges become available, they starts to be accommodated from the last active gauge displayed filling the available slots in all the pages in an incremental order and following the preset priority.

The Virtual Gauges app does not allow the user to select the disabled gauge pages until they become available.

Each time a Virtual Gauges app page is filled with gauges, the Virtual Gauges app activates the subsequent page, in incremental order, to continue placing the active virtual gauges.

Priority presets

**Priority Preset 1**

<table>
<thead>
<tr>
<th>Gauge</th>
<th>Priority</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Oil Temperature</td>
<td>Page One</td>
</tr>
<tr>
<td>Main Trans Oil Temperature</td>
<td>Page One</td>
</tr>
<tr>
<td>Manifold Pressure (Boost)</td>
<td>Page One</td>
</tr>
<tr>
<td>DPF Status</td>
<td>Page One</td>
</tr>
<tr>
<td>Fuel Economy</td>
<td>Page One</td>
</tr>
<tr>
<td>Percent Torque</td>
<td>Page One</td>
</tr>
<tr>
<td>Percent Horsepower</td>
<td>N/A</td>
</tr>
<tr>
<td>Idle Time</td>
<td>N/A</td>
</tr>
<tr>
<td>Idle Fuel</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Priority Preset 2**

<table>
<thead>
<tr>
<th>Gauge</th>
<th>Priority</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Oil Temperature</td>
<td>Page One</td>
</tr>
<tr>
<td>Main Trans Oil Temperature</td>
<td>Page One</td>
</tr>
<tr>
<td>Manifold Pressure (Boost)</td>
<td>Page One</td>
</tr>
<tr>
<td>DPF Status</td>
<td>Page One</td>
</tr>
<tr>
<td>Fuel Economy</td>
<td>Page One</td>
</tr>
<tr>
<td>Percent Torque</td>
<td>Page One</td>
</tr>
<tr>
<td>Percent Horsepower</td>
<td>N/A</td>
</tr>
<tr>
<td>Idle Time</td>
<td>N/A</td>
</tr>
<tr>
<td>Idle Fuel</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Preset Gauges Interaction
The positions of the active gauges can be adjusted in the General Settings screen of the Virtual Gauges app by selecting a gauge and dragging it to a new desired position.

Individual gauges can be moved by selecting and then dragging to a new position. As the gauge is dragged it will snap into the closest gauge slot even if the slot is already occupied by another gauge. The gauge will be moved to the location shown when the user deselects the gauge.

While a gauge is being moved and starts snapping in other gauge slots in the General Settings screen of the Virtual Gauges app, the other gauges reposition to give space to the dragged gauge.
The re-positioning of the non-selected gauges from the General Settings screen of the Virtual Gauges app shall be according the following rules:

- Gauges in the preceding slots will shift back one position until the position where the selected gauge was originally is reached.
- Gauges in slots after where the selected gauge snaps will remain unaffected.

Once the user stops pressing the screen, all the gauges will be moved and the gauge selected keep their new positions.

Only one gauge can be moved at a time in the General Settings screen of the Virtual Gauges app.

While moving a gauge position in the General Settings screen of the Virtual Gauges app, if the user moves the gauge to one of the sides of the screen, the Virtual gauges app will switch to the next/previous page, depending on the side. In this case, right side is related with the next page and the left side is related with the previous page.

The page movement when a gauge is moved to a one of the side of the screen is subject to the following restrictions:

- The page switching shall be restricted to the active pages.
- If the gauge is moved to the left side of the screen while in the first page no action shall be performed.
- If the gauge is moved to the right side of the screen while in the last active page no action is performed.

Gauges placement should be adjusted with the vehicle key in the ON position to ensure that all available gauges are displayed for rearrangement.

**Reset to Default Screen**

If the Reset to Default Soft key from the General Settings of the Virtual Gauges app is depressed, the Virtual Gauges app shall restore the gauge priority list to the Default Virtual Gauges priorities, updating also the position of the gauges in the Settings Screen and in the Virtual Gauges app.

When short pressed, prior to resetting to the Default Virtual Gauges priorities the Virtual Gauges app displays the following Pop-up warning. See Figure 80 as reference.

Preset 1, Preset 2 and Cancel act as soft keys in the pop-up warning.

Pressing Preset 1 or Preset 2 closes the warning pop-up and the General Settings screen and restores default Virtual Gauges priorities of the selected preset as well as updating the position of the gauges in the General Settings screen and in the Virtual Gauges app.

Pressing Cancel closes the warning pop-up and returns to the General Settings pop-up menu without changing any configurations.

**OTA (Over the Air)**

The System is capable of receiving Over the Air updates when the unit is connected to the internet. Select MobileCare application and it will search for updates automatically. The following items can be updated:

- CoPilot Truck navigation software and virtual gauges
- System Software Updates

To check for available updates connect the system to WiFi (see Setting/WiFi section), then open the MobileCare app from the Home screen, as shown in Figure 81.
MobileCare will check for available updates and display whether an update is available or the system is up to date. When the system displays the notification that updates are available, follow the instructions to download and install the update. The system will automatically check for updates periodically when an internet connection is available and will display an icon in the notification bar when an update is available for download.

**Voice Recognition**

This display includes Voice Recognition technology. This can be used to perform various commands including:

- Place Bluetooth phone calls
- Changing audio sources
- Tuning radio stations
- Control media playback
- Opening applications

Voice Recognition is activated by using the microphone soft key on the display. Once activated the Voice Recognition indicator is displayed.

Once the Voice Recognition function is activated the Voice Recognition indicator is displayed. The Voice Recognition indicator has two states:

- Active
- Inactive

While the System is capturing voice commands, it displays the Voice Recognition indicator in Active state as **Figure 82** illustrates.

**Vocabulary**

The System is able to recognize the following vocabulary.

**Basic Numbers:**

“Zero (Oh), One, Two, Three, Four, Five, Six, Seven, Eight, Nine”.

**Decimal Numbers:**

“Ten, Eleven, Twelve, Thirteen, Fourteen, Fifteen, Sixteen, Seventeen, Eighteen, Nineteen”.

**Decimals:**

“Twenty, Thirty, Forty, Fifty, Sixty, Seventy, Eighty, Ninety”.
Centesimal:
“Hundred, Thousand”.

Special Characters:
“Number (Hash tag, Hash, Pound, Square), Star (Asterisk), Plus”.

Basic disagree command:
“no, incorrect, wrong, negative, none are correct, none of these, not really, no I said, no I did not, nope, na, no way”.

Basic cancel command:
“No, Negative, Do not, Don’t, Cancel [request], Abort, Stop, End”.

Basic agree command:
“Yes, correct, that is correct, yeah, ya, yep, yup, sure, right, OK, positive, you got it, probably, you bet”.

General Audio Commands:
“Mute, Unmute”.

General Options:
“Option <Basic_Numbers | <Decimal_Numbers”.

Help Command:
“Help”.

If any of these is not valid the System says:
-“Sorry, Invalid Command”.

Direct Action Commands
Direct action commands refer to commands from the vocabulary that does not need a second action to perform the command. These commands emulate a soft key press or a hard button press in the System.

Time Command:
-“What time is it?”
The System shows the time in the Voice Recognition pop-up for 5 seconds. After the 5 seconds the pop-up is closed.

-“What day is it?”
The System shows the Date in full format (It is [Day of the week], [Month] [Day], [Year]) in the Voice Recognition pop-up for 5 seconds. After the 5 seconds the pop-up is closed.

Launch

Switch command
-“Switch to ****** or Switch to ****** app”
The System opens the application specified by the user.

Open command
-“Open ****** or Launch the ****** app”
The System opens the application specified by the user.

General Options
-“Option ######”

In the case the System registers multiple valid results, it displays a list of the multiple valid results as Figure 83 illustrates.

Figure 83: Multiple valid results for the captured voice command screen

Each item in the list works as a soft key selector. The System activates one of the listed options by two ways:

- Via a Voice command
- Via the selection of the soft key selector

The System performs the function related to the option selected.
Phone Commands

- "Redial"
  If a Bluetooth Phone is paired, the System opens the Phone App and attempt a call to the last number called.

- "Call Back"
  If a Bluetooth Phone is paired, the System opens the Phone App and attempt a call to the last received call number.

- "Phone"
- "Call Contact"
  After the "Call Contact" command, the System shows a help message in the pop-up to indicate the user the following message.
  Who do you want to call?

- " Johnny Cash home"
- "****** at Home or ****** Home"
  The System calls the contact specified by the user to the Home phone number specified by the Bluetooth Paired device.

- "****** at Mobile or ****** Mobil"
  The System calls the contact specified by the user to the Mobile phone number specified by the Bluetooth Paired device.

- "Dial Number"
  After the "Dial Number" command, the System shows a help message in the pop-up to indicate the user the following message.
  What number do you want to call?
  "Please say only numbers between 1 and 9"

If no Bluetooth Phones are connected, the System shows an indication that says:

- Title: "Sorry"
- Guideline Command: "No Phone Connected"

While the System is processing the captured voice command it displays the Voice Recognition indicator in Inactive state as Figure 84 illustrates.

Once the System registers a valid command, the command to be performed is displayed.
Settings

The System presents the following settings options. See Figure 86 & Figure 87 as reference:

- Wireless & Networks
- Language & Inputs
- Date & Time
- System Audio
- System Information
- Cameras Settings
- Apps
- Keyboard Sounds
- Display Settings

Each option is displayed in a grid manner. Each of the settings options works as a soft key.

The Menu soft key does not have functionality in this screen. While inside the settings menus, the System continues showing the current menu even if there is a track change.

Camera Settings

In the case the Camera Settings is selected, the System displays the following information as activation/deactivation controls for any available camera inputs. Figure 88 as reference. Automatic camera control settings for camera inputs that are not enabled will be shown as grayed out.

See the Camera Activation section for details on how to enable camera inputs.
The activation soft key is displayed as a slider control. The slider control has two states.

- On: slide action to the right
- Off: slide action to the left

In the case the System detects an On state, the corresponding automatic camera view is activated.
In the case the System detects an Off state, the corresponding automatic camera view is deactivated.

This menu may not be available in all vehicles.

**Display Settings**

The System opens the Display Settings section in the case this option is selected at system settings.
Once the Display Settings menu is open, the System displays the following configuration options, see Figure 89 as reference:

- Dimming brightness
  - 10% per step
- Units of measure
  - English
  - Metric

**Wireless & Networks**

The Wireless & Network setting is opened once the System senses a touch over the Wireless & Networks icon.
Once the Wireless & Networks settings menu is open the next connectivity options list is presented to the user, see Figure 90 as reference:

- Wi-Fi
- Bluetooth
- Bluetooth Network Connection
The Bluetooth & Wi-Fi activation options are presented to the user as slider controls. Each slide control has two states:

- **On**: slide action to the right
- **Off**: slide action to the left

In the case the System detects an On state the corresponding wireless option is activated.
In the case the System detects an Off state the corresponding wireless option is deactivated.

**Wi-Fi**

In the case the Wi-Fi option is activated a separate sub screen displays the list of available networks. The WPS activation soft key is present as part of the Wi-Fi interface. The listed items in the available network list work as soft keys.

A password to enable the connection might be required if the network is a limited access network. In the case a password is required a pop-up sub screen along with a virtual keyboard is displayed illustrated in Figure 91.

The System captures the introduced password and uses it for the network connection process.

The System presents the Wi-Fi menu screens following the distribution and styling of the Figure 92.
In the case the System detects the activation of the Menu soft key or hard key the System displays a pop sub menu with the following options, see Figure 93 as reference:

- Scan
- WPS Pin Entry
- Advanced
- Help

![Figure 93: The Wi-Fi settings option](image)

In the case the advanced option is selected the System displays the advanced Wi-Fi menu, see Figure 94 as a reference.

![Figure 94: The Advanced Wi-Fi menu screen](image)

### Bluetooth

The following profiles are supported by the System:

- Advanced Audio Distribution Profile (A2DP)
- Audio/Video Remote Control Profile (AVRCP)
- Hands-Free Profile (HFP)
- Phone Book Access Profile (PBAP)
- Message Access Profile (MAP)
- Personal Area Networking Profile (PAN)
- Serial Port Profile (SPP)

The System can connect to a Bluetooth Device. To use this functionality your device requires Bluetooth and to be paired and connected to the System. The supported device list is located in the following web page: [http://www.panapacific.com/support](http://www.panapacific.com/support)

Other devices may be connected and played, but functionality cannot be guaranteed.

In the case the Bluetooth option is turned ON, a sub screen is displayed listing the next options, see Figure 95 as reference:

- “Visible to all nearby Bluetooth devices” option
• List of the Bluetooth devices available to connect
• List of the Bluetooth devices available to pair

![The Bluetooth menu screen](image)

The System activates the detection to other Bluetooth devices if the "Visible to all nearby Bluetooth devices" option is activated. The "Visible to all nearby Bluetooth devices" function is activated for 2 minutes.

Each of the items in the "Available devices" list works as a soft key, see Figure 96 as reference.

![Available devices searching](image)

In the case one item is selected, a pop-up screen is displayed presenting the following information and soft keys, see Figure 97 as reference.

**Information:**

- Target device name
- PIN or White Box to introduce PIN

**Soft keys:**

- Cancel option
- Pair option
If the System detects the selection of the white box a keyboard is displayed, if available. The System captures in the White Box the introduced PIN. See Figure 98, Figure 99 & Figure 100.

In the case the Pair button is selected, the System starts the connection process.

The System will automatically connect to the first available paired device, starting from the most recent paired/connected device.
In the case the Cancel button is selected, the System cancels the connection process closing the pop-up screen. If the connection process is cancelled a pop-up message is displayed stating “Pairing failed. Unable to connect to remote device”. See Figure 101 as reference.

**Figure 101: Error – Pairing failed**

**Keyboard Sound**

In the case the keyboard sounds option is selected, the System displays the next configurable options illustrated Figure 102:

- Touch sounds

**Figure 102: The Keyboard sound option screen**

The System allows the activation and deactivation of the keyboard sound option.

**Date & Time**

The System supports both automatic date & time (see Figure 103 as reference) or manual (see Figure 104 as reference) settings of the date and time.
In the case the date & time option is selected, the System presents the next configurable options following standard date & time settings functionality:

- Automatic date & time
- Automatic time zone
- Set date
- Set time
- Select time zone
- Use 24-hour format
- Choose date format

The System shall present the following date format options only. Each of these operates as a soft key selection item to change the applicable setting:

- 12/31/2014
- 31/12/2014
- 2014/12/31

**Applications**

The System supports the standard application manager settings. In the case the Apps option is selected the System presents a list of the installed apps illustrated in Figure 105.
Each item in the list works as a soft key. Each item in the list presents the next information:

- Application icon
- Application name
- Application memory space

The System displays up to 5 items per screen. In the case there are more than 5 items the remaining items are displayed in subsequent screens.

In the case a listed item is selected, the System presents the following controls and information. See Figure 106 as reference.

**Controls:**

- Force stop button
- Disable button (if available)
- Clear data button
- Clear cache button
- Clear Defaults button (if available)

**Information:**

- Application name
- Application version
- Application icon
- List of applicable permissions
- Storage information

The controls functions follow the standard apps functionality.

**System Information**

In the case the System Information menu is selected, the System displays the next information as Read only (see Figure 107 as reference):

- IP Address
- Wi-Fi Mac Address
- Android Version
- Model Version
- Regulatory Information
Language & Inputs

In the case the Language & Inputs menu is selected, the System displays the following options:

- Language
- Voice recognition
- Text to speech output

Each option works as a soft key.

The System presents the Language & Inputs options following the distribution and styling of the Figure 108.

Language

In the case the Language option is selected, the System displays the following language options, see Figure 107 as reference:

- English
- Español
- Français
Each language option works as a soft key. The System allows the selection of one option at a time. If the language is changed to other than English once Voice Recognition is active, a pop-up message is displayed stating: “Voice Rec function will be inactive”.

As part of the pop-up message, the next two soft keys are displayed:

- Ok to proceed
- Cancel to not proceed

**Text to speech output**

The System presents the “Text-To-Speech” option. The System presents the following options, see Figure 110 as reference:

- Preferred engine
- Language

**System Audio**

In the case the System Audio is selected, the next configuration options are displayed, see Figure 111, Figure 112 & Figure 113 as reference:

- Auto Equalization
- Manual Equalization
- Fade/Balance adjustment
- Speed Dependent Volume
- 4/2 Speakers Configuration
- Seek Sensitivity
The Manual Equalization and the Auto Equalization options work as soft keys.

The Fade and Balance configuration options are presented in a bar selector manner.

**Manual Equalization**

In the case the Manual Equalization option is selected, the System displays the following configurable options, see Figure 114 as reference:

- Bass
- Middle
- Treble
The System adjusts the Bass value accordingly with the selected value in the Bass bar control.

The System adjusts the Middle value accordingly with the selected value in the Middle bar control.

The System adjusts the Treble value accordingly with the selected value in the Treble bar control.

The scale of the Bars is from -12dB to +12dB. The System supports detection of 12 steps on each of the bars, adjusting 2 dB per step.

**Auto Equalization**

In the case the Auto Equalization option is selected, the System displays the following options, see **Figure 115** as reference:

- POP
- ROCK
- COUNTRY
- NEWS
- JAZZ
- CLASSICAL

Each Audio setting section has a checkbox as a selector control. The System adjusts the audio output configuration based on the option selected. The System does not allow selecting more than one Auto Equalization option. In the case the system detects the selection of the current Auto Equalization option, no change will take place.

**Speed Dependent Volume**

This function changes the volume level proportionally with the vehicle speed in order to compensate for engine or road noise.

In the case the Speed Dependent Volume is enabled, the System displays the next configurable options, see **Figure 116** as reference:

- Off
- Low
- Mid
- High
The System allows the selection of one option at a time.

**Speakers Configuration**
In the case the Speakers configuration option is selected, the System displays the next configurable options, see previous Figure 116 as reference:

- 4 Speakers
- 2 Speakers

The System allows the selection of one option at a time.
While the radio is configured to 2 speakers, the Fade option is unavailable.

**Seek Sensitivity -6dB to +6dB**
The seek sensitivity option is present in a bar selector manner, as illustrated in Figure 117.

The scale of the seek sensitivity Bar is from -6 dB to +6 dB. The System detects 12 steps on the bar. The System adjusts 1 dB per step of the corresponding value.

**Camera Activation**
Use the following steps to activate camera inputs for using cameras with the System.
1. From the Home screen simultaneously press the Home and Dim Day buttons for 8 seconds until a new screen opens.
2. Scroll down to page 2 using the down arrow in the bottom left-hand corner.

3. Using the slider buttons, turn the appropriate camera inputs.

4. Scroll up to page 1 using the up arrow in the upper left-hand corner.

5. Select “Save”. The System will ask to confirm that the system will reboot. Select “OK”.

6. The system will reboot and the camera inputs will be active.

Refer to manufacturer's documentation about camera compatibility and any additional setup instructions.
Tips and Troubleshooting

Radio

Unable to tune stations
You are in a weak signal area.
- Increase the Seek Sensitivity (see Seek Sensitivity section for details).

CD

CD player not functioning
Out of the operation range, Operation temperature of the CD is -20°C to 55°C (-4°F to 131°F).
- Allow the vehicle’s interior temperature to increase or decrease (depending on the case).

CD Insertion is not possible
A CD is already in the CD player.
- Eject the CD and remove it.

iPod

iPod does not play or there is no sound
The iPod has not been recognized.
- Verify that the iPod is supported.
- If the iPod is supported, reset the iPod and re-connect again (see iPod section for details).

iPod not functioning
Out of the operation range, Operation temperature of the iPod player is -20°C to 85°C (-4°F to 185°F).
Allow the vehicle’s interior temperature to be in human supportable range.

Bluetooth

My radio doesn’t recognize my Bluetooth enabled device
Try one of the following actions:
1. Remove the device, after that pair and connect the device. Refer to DELETE ONE OR DELETE ALL DEVICES and to Pairing a Bluetooth Device and Connecting a Device sections.
2. Make sure the device is turned on.
3. Make sure the Bluetooth adapter on your radio is enabled, Refer to Bluetooth Enabling/Disabling section.
4. The device might be out of range. Try moving it closer.

The device and my radio can’t communicate
Try one of the following actions:
1. Make sure that you selected the correct device to be connected to. For example, you might have two or more devices previously paired or connected, so make sure you selected the right device.
2. Some devices require a passkey before they can be connected to the radio.
3. Probably an incorrect passkey was typed or the time limit expired for typing the passkey. Refer to Connecting a Device section.
4. If the device is close to other devices that use radio frequencies (such as microwave ovens, cordless phones, remote controls for electronics or lighting, or 802.11 wireless networks), those devices might be creating interference. Try moving the device that isn’t working farther away from the other devices.

Device music cannot be heard
1. Verify the device is paired and connected. Refer to sections: Pairing a Bluetooth Device and Connecting a Device.
2. Make sure BLUETOOTH AUDIO Source is selected in the source list menu. Refer to Media Sources section.
3. Adjust the Volume on the radio by rotating the knob.
4. Verify that your device is not paused.
5. Make sure your device has music files.

Rear Seat Audio (RSA)

The RSA shows no link
The radio requires up to 15 seconds to wake up, so if you wake up the radio using the RSA and the radio is in sleep mode, the RSA will show "no-link"
while the radio starts. The communication shall be reestablished after this time lapse expires.

Precautions

The DEA600 is not a safety product. The cameras and the rear auxiliary inputs are provided for driver conveniences only.

Driver Distraction Avoidance

To avoid driver distractions, the System implements two states for the overall functionality of the System:

- Normal Functionality
- Driving State

Normal functionality allows the user access to all the functionalities of the system; this state is enabled when the parking brake is set and when the vehicle speed is less than 5 Km/h. Driving state disables some functions/applications that may distract the driver from the road; this state is activated when the parking brake is unset or the vehicle speed is equal or greater than 5 km/h.

Limited Applications/Functions

Messaging

The System displays new message alerts with audible feedback activating the TTS functionality while in the Driving Distraction Avoidance Driving State. The audible feedback will read the incoming message using the TTS functionality.

The user is not allowed by the system to write new messages while in the in the Driving Distraction Avoidance Driving State. The virtual keyboard will be inactive during this state.

The user is only able to respond a message using the options from the predefined messages.

Phone

The System allows the user to answer a call while in the Driving Distraction Avoidance Driving State.

Other Phone functionalities are restricted while in the Driving Distraction Avoidance Driving State.

System memory

If the battery is disconnected before or at the same time as the ignition line, the system does not guarantee the memory retention.

The time of day is be set to the default value when the battery is disconnected.

Apple devices

*Apple devices shall not be connected in the Rear mini USB port.*

If not certified accessories are used to connect an Apple device to the System, it will not be able to provide Power as required for the Apple device.

Sirius XM

The Sirius XM implementation includes only music.

Warranty Replacement

It is recommended that every time one or both of the modules are replaced in the vehicle, any configurable settings (advanced menu, frequency zone, etc) are configured with both modules connected.

Product Cleaning

Use a soft dry cloth for periodic cleaning. For more severe stains use a cloth dampened with water only. Anything else might affect the appearance or damage the lens or plastics.

Moisture Condensation

You may notice the CD playback sound wavering due to water condensation. If this happens please remove the disc from the player and wait about an hour for the moisture to evaporate.

Damage Disc

Don’t attempt the following:
• To play a cracked, warped or damaged disc. Playing a bad disc could severely damage the playback mechanism.
• To grip or pull out the disc while it is being pulled back into the player by the automatic reloading mechanism.
• To insert a disc into the mechanism when the unit is powered OFF.

Bluetooth
The Message Access Profile features with an Apple device are limited to read/receive messages per Apple devices limitation. Apple devices do not support sending messages through the MAP Bluetooth profile.

Bluetooth Distraction
When using a cell phone, it can be distracting to look too long or too often at the screen of the phone or the infotainment system. Taking your eyes off the road too long or too often could cause a crash resulting in injury or death.
Focus your attention on driving.

Disclaimers, Trademarks and License Agreements
Delphi does not take any responsibility of an incomplete system in the vehicle.

“SiriusXM” means that the radio has been designed and certified to meet SiriusXM standards.
SiriusXM is a trademark of SiriusXM Company registered in the U.S.

“The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Delphi is under license. Other trademarks and trade names are those of their respective owners.”

“SiriusXM” means that the radio has been designed and certified to meet SiriusXM standards.
SiriusXM is a trademark of SiriusXM Company registered in the U.S.

“The Wi-Fi CERTIFIED™ Logo is a certification mark of Wi-Fi Alliance®.”

FCC Information

FCC ID: L2C0057TR for USA.
IC ID: 3432A-0057TR for Canada.

Conformity assessment issues

FCC/IC Regulatory Notice

Modification statement
Delphi Electronics & Safety has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.
Delphi Electronics & Safety n’approuve aucune modification apportée à l’appareil par l’utilisateur, quelle qu’en soit la nature. Tout changement ou modification peuvent annuler le droit d’utilisation de l’appareil par l’utilisateur.

**Interference statement**

This device complies with Part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d’Industrie Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes : (1) l’appareil ne doit pas produire de brouillage, et (2) l’utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

**Radiation Exposure Statement**

This device complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Le présent appareil est conforme à l'exposition aux radiations FCC / IC définies pour un environnement non contrôlé et répond aux directives d'exposition de la fréquence de la FCC radiofréquence (RF) dans le Supplément C à OET65 et RSS-102 de la fréquence radio (RF) IC règles d'exposition. L'émetteur ne doit pas être colocalisé ni fonctionner conjointement avec à autre antenne ou autre émetteur.

**FCC Class B digital device notice**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAN ICES-3 (B) / NMB-3 (B)**

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de classe B est conforme à la norme canadienne ICES-003.