DUAL DCPA701 Media Receiver with Android Auto and CarPlay Owner's Manual

Contents

DUAL DCPA701 Media Receiver with Android Auto and CarPlay

Safety Notes

Video playback will not operate while the vehicle is moving. This is a safety feature to prevent driver distraction. In-dash video functions will only operate when the vehicle is in the Park and the parking brake is engaged. It is illegal in most jurisdictions for the driver to view video while the vehicle is in motion.

The SAFETY NOTICE is a reminder to drive responsibly and safely while using your mobile phone device, or any app that is compatible with this unit. It is highly recommended that your DUAL DCPA701 is installed by a professional installer or an authorized dealer. This product is only for use in vehicles with 12VDC negative ground only.

To prevent damage or injury

- Make sure to ground the unit securely to the vehicle chassis ground.
- Do not remove the top or bottom covers of the unit.
- Do not install the unit in a spot exposed to direct sunlight excessive heat or the possibility of water splashing.
- Do not subject the unit to excessive shock.
- When replacing a fuse, only use a new one with the correct rating. Using a fuse with the wrong rating may cause the unit to malfunction.
- To prevent short circuits when replacing a fuse, disconnect the wiring harness first.
- Use only the provided hardware and wire harness.
- If you experience problems during installation, consult your nearest DUAL dealer.
- If the unit malfunctions, reset the unit as described. If the problem still persists consult your nearest DUAL dealer or call tech assistance @ 1-866-382-5476.
- To clean the monitor, wipe only with a dry silicone cloth or soft cloth. Do not use a stiff cloth or solvents such as paint thinner and alcohol. They can scratch the surface of the panel and/or remove the printing.
- When the temperature of the unit falls (as in winter), the liquid crystal inside the screen will become darker than usual. Normal brightness will return after the unit is in use for a while.
- When extending the ignition, battery or ground wiring, make sure to use automotive-grade wiring with a minimum AWG 16 or more to prevent voltage drops.
- Do not touch the liquid crystal fluid if the LCD is damaged or broken. The liquid crystal fluid may be hazardous to your health or fatal. If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

Copyright Notes
This product incorporates copyright protection technology that is protected by method claims of certain U.S.

patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited. The Bluetooth® word mark and logos are owned by the Bluetooth SIG, Inc. Use of the Apple CarPlay logo means that a vehicle user interface meets Apple performance standards. Apple is not responsible for the operation of this vehicle or its compliance with safety and regulatory standards. Please note that the use of this product with an iPhone, iPod, or iPad may affect wireless performance. Apple CarPlay is a trademark of Apple Inc. "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to an iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. iPhone and iPod are trademarks of Apple, Inc., registered in the U.S. and other countries. Availability of Android Auto™ may vary depending upon your country and phone model. Please visit **android.com/auto** for more information. Android, Android Auto, Google, and other marks are trademarks of Google Inc. Other trademarks and trade names are those of their respective owners.

WARNING

- Upon installation of this monitor/media player ("unit") into a vehicle, the driver of the vehicle must not operate this unit by watching videos or playing video games while driving. Failure to follow this instruction could lead to driver distraction which could result in serious injury or death to the vehicle's occupants or persons outside the vehicle and/or property damage.

- Several states prohibit the installation of monitors/media players if the screen is visible from the driver's seat. If you reside in a jurisdiction which has enacted such a law, this unit must not be installed so that the screen is visible from the driver's seat. When installing this unit in the front console/dashboard, the unit must be positioned so that it is facing the front passenger seat only. Failure to follow this instruction could lead to driver distraction which could result in serious injury or death to the vehicle's occupants or persons outside the vehicle and/or property damage.

- This unit is designed so that it may be operated only when the vehicle is in "Park" and the parking brake is fully engaged. To this end, this unit includes a parking brake lock-out feature which prohibits the unit from operating if the vehicle is not in "Park" and/or the parking brake is not fully engaged. When installing this unit, the installer must connect the parking brake detect wire to the parking brake mechanism in order to make the parking brake lock-out feature operable. DO NOT simply ground the parking brake detect wire to a metal portion of the vehicle. Failure to properly install the parking brake lock-out feature could lead to driver distraction which could result in serious injury or death to the driver's occupants or persons outside the vehicle and/or property damage.

- Once the parking brake lock-out feature is installed, the owner/user must not attempt to disrupt/neutralize the parking brake lock-out feature by (a) partially engaging the parking brake and/or (b) purchasing/using any device or unit designed to send necessary brake signals to the unit. Failure to follow these instructions could lead to driver distraction which could result in serious injury or death to the driver's occupants or persons outside the vehicle and/or property damage.

- When operating this unit, keep the unit's volume level low enough so that the vehicle's occupants can hear traffic-related sounds such as police and emergency vehicles. Failure to follow this instruction could lead to driver distraction which could result in serious injury or death to the vehicle's occupants or persons outside the vehicle and/or property damage.

FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

   Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
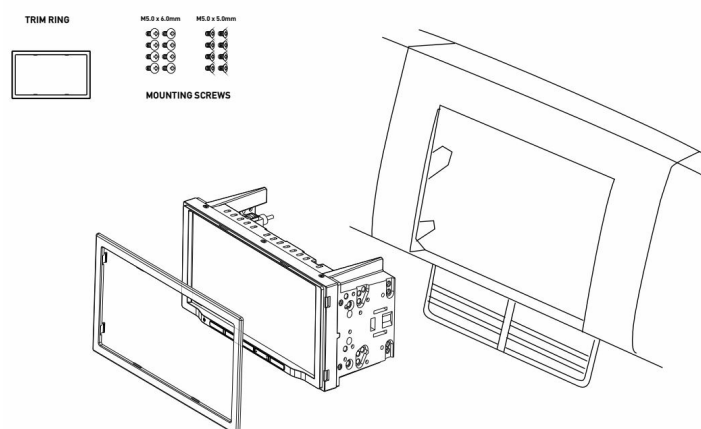
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate 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 the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
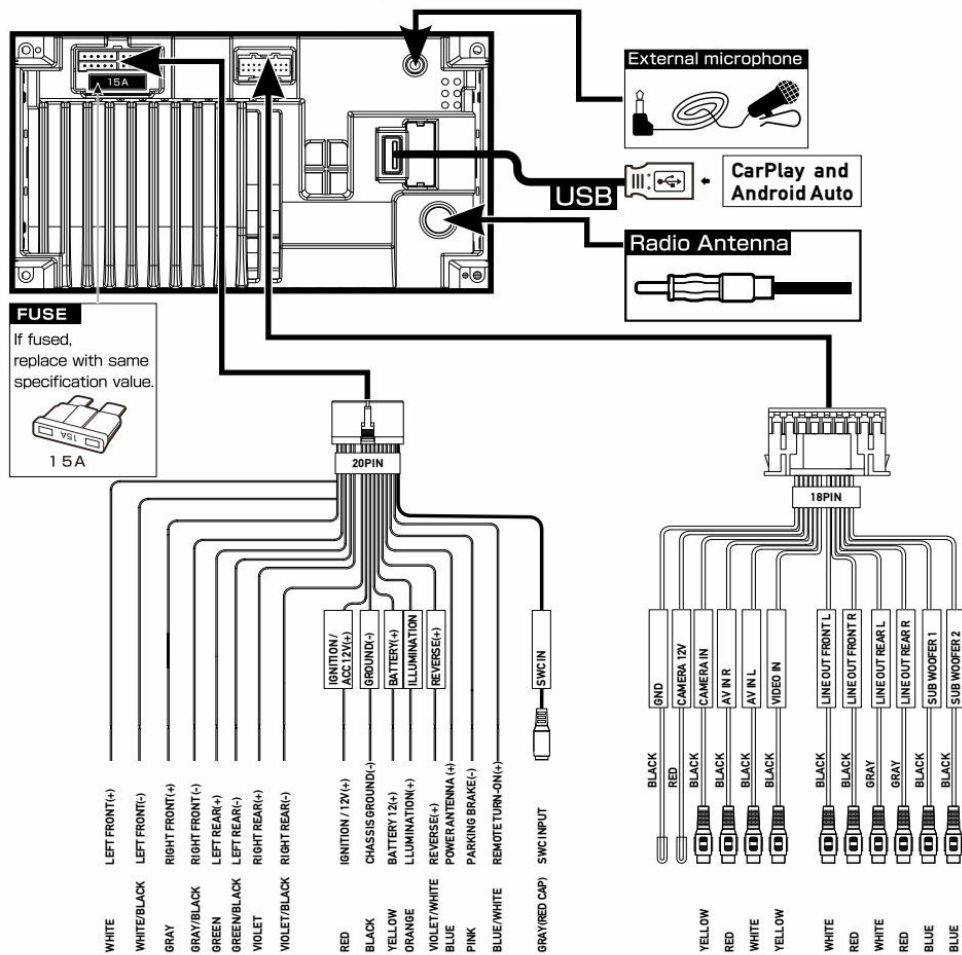- Consult the dealer or an experienced radio/TV technician for help.

Preparation

Before You Start

- Disconnect the negative battery terminal. Consult a qualified technician for instructions.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight, or where it would be subject to dust, dirt or excessive vibration.

Wiring Diagram – Inputs/Outputs

External microphone

USB → CarPlay and Android Auto

Radio Antenna

15A

FUSE
If fused,
replace with same
specification value.
15A

20PIN

IGNITION / ACC 12V(+)
GROUND(-)
BATTERY(+)
ILLUMINATION
REVERSE(+)

SWC IN

Label	Color
LEFT FRONT(+)	WHITE
LEFT FRONT(-)	WHITE/BLACK
RIGHT FRONT(+)	GRAY
RIGHT FRONT(-)	GRAY/BLACK
LEFT REAR(+)	GREEN
LEFT REAR(-)	GREEN/BLACK
RIGHT REAR(+)	VIOLET
RIGHT REAR(-)	VIOLET/BLACK
IGNITION / 12V(+)	RED
CHASSIS GROUND(-)	BLACK
BATTERY 12t(+)	YELLOW
ILLUMINATION(+)	ORANGE
REVERSE(+)	VIOLET/WHITE
POWER ANTENNA(+)	BLUE
PARKING BRAKE(-)	PINK
REMOTE TURN-ON(+)	BLUE/WHITE
SWC INPUT	GRAY(RED CAP)

18PIN

Label	Color
GND	BLACK
CAMERA 12V	RED
CAMERA IN	BLACK
AV IN R	BLACK
AV IN L	BLACK
VIDEO IN	BLACK
LINE OUT FRONT L	BLACK
LINE OUT FRONT R	BLACK
LINE OUT REAR L	GRAY
LINE OUT REAR R	GRAY
SUB WOOFER 1	BLACK
SUB WOOFER 2	BLACK

RCA plug colors: YELLOW, RED, WHITE, YELLOW, WHITE, RED, WHITE, RED, BLUE, BLUE

Note:
When replacing a fuse, make sure to use the correct type and amperage. Using an incorrect fuse could cause damage. The unit uses (1) 15 amp ATC mini style fuse located on the power connector.

Wiring Notes:

Subwoofer output
The Subwoofer preamp audio output (Blue jacket with Black RCA) is active in all audio modes.

Rear camera input
A rearview camera (not included) can be used with the Camera input.

Control Locations

The radio display features the following functions and displays:

1. RESET
2. VOL-
3. VOL+
4. POWER/MUTE
5. SOURCE
6. VOICE ACTIVATION BUTTON

General Operation

- **Power On/Off**
  - Momentarily press ⏻ to turn the unit on. Press and hold to turn the unit off.
- **Volume**
 - Press "VOL+" or "VOL-" to increase or decrease the volume level.
- **Mute**
  - Momentarily press MUTE to silence the audio. Momentarily press MUTE again to return to the previously selected volume. Rotating the volume knob while the volume is muted will also cancel the mute function.
- **Mode**
  - Press MODE at the top left corner of the screen to display the main menu.
  - Press the Radio/USB/Android Auto/CarPlay/BT Phone/BT Audio/AV In/ Settings
  - **Note:** Modes of operation can also be accessed by selecting the corresponding icon from the main menu.
- **Main Menu**

  - Operation Mode Selection: Press the 🏠 icon at the top left corner of the screen to display the OSD main menu. Press the Radio/USB/Android Auto/CarPlay/BT Phone/BT Audio/AV In/Settings in the Main meu pate to select the desired source.
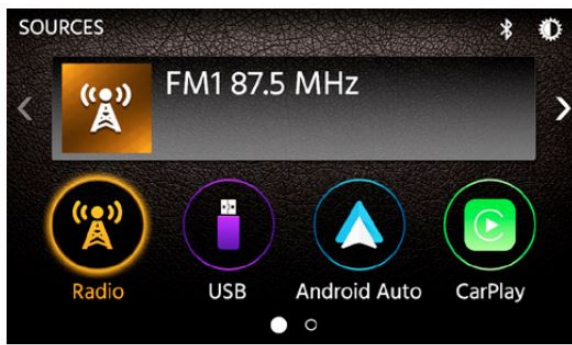
- **Dimmer**
  - Press the icon to adjust the brightness.
- **A/V In**
  - Connect external audio/video devices to the rear RCA Type A/V Input
- **USB**
  - Insert a USB flash drive to play MP3/FLAC files.
- **Reset**
  - To resolve abnormal operations or if the unit is inoperable, Press the RESET button located on the front panel. The unit will reset the main processor to the default settings,

Note: Use the tip of a pen to access the reset button. To restore the factory default software settings.

- **Reset**
  - To resolve abnormal operations or if the unit is inoperable, Press the RESET button located behind the front panel directly under USB port. The unit will reset the main processor to the default settings,
    Note: Use the tip of a pen to access the reset button. To restore the factory default software settings.
- **Setup Menu**
  - From the Main Menu screen, select Setup to access the Settings menu and select from eight categories represented by the icons on the top of the screen: General, Audio, Display, and Others. Select the category, and adjust any of the available options using the touch screen.
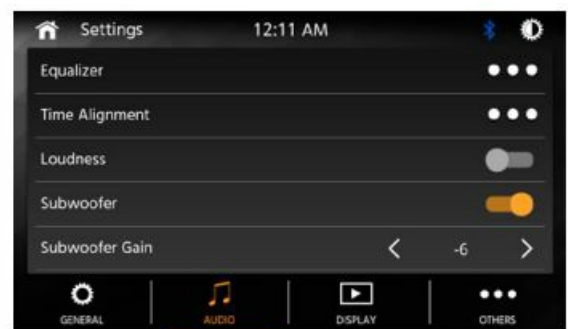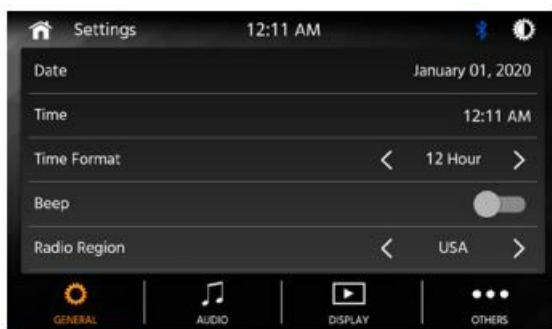
General:

- Adjust the date and time- Day, Month, Year, Hour, Minute and Format.
- Time Format- Select between 12-Hour and 24-Hour Time Format.
- Beep Tone – Turn the Beep Tone On or Off.
- Radio Region – Select Radio Region.

Audio:

- Equalizer-Select between the following EQ presets Default, User, Classic, Rock, Jazz, Electric, Pop, Soft (allows user to enter custom EQ settings).
- Time Alignment-To adjust time correction settings select"PRESET 1" "PRESET 2"or"PRESET 3".
- Loudness – Touch the screen button to turn the Loudness function on/off.
- Subwoofer Control – Touch the button to turn the Subwoofer Control On/Off.
- Subwoofer Gain – Select subwoofer -15 to 0 (-6 is the default).

Display:

- Brightness- Press > or < to adjust to the desired level. (O Minimum/20 maximum: Day: 20 is the default, Night: 6 is the default).
- Dimmer Mode- Press > or < to adjust to change the mode (Auto/Day/Night).

Others:

- Factory Default-Reset Bluetooth Settings or Reboot System.
- System Version-Displays software version of the unit.

Audio Operation

- **Equalizer Menu**
    - From the Main Menu screen, Press the Equalizer icon on the main menu screen to adjust the Fader and Balance controls, and Equalizer (8-Band Tone Control and 8 Presets EQ Settings).
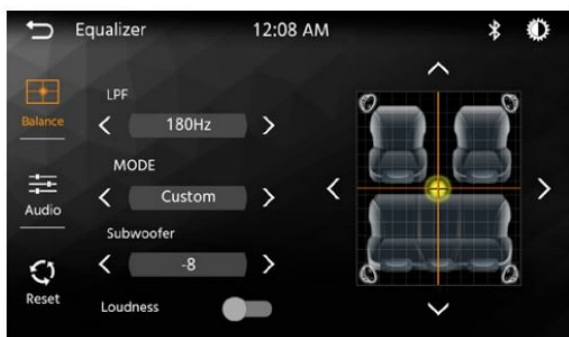

- **Time Alignment Menu**
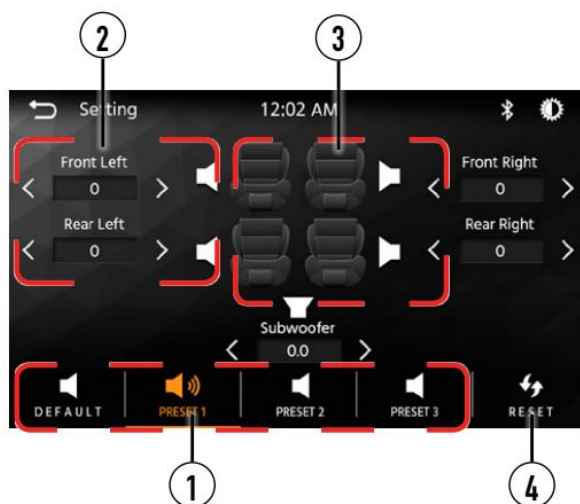
1. Surround Presets
2. Time Delay Setting

3. Speaker Positions

4. Reset to Default Settings

Adjustments:
To properly set the time alignment, you will need measure the distance from each speaker (in ft) to where you want the "center stage" to be. for example, if you want the position to be at the divers seat, then meausre each speaker's side (front & rear) to where your head is located and set the distance accordingly. Each vehicle will vary in distance, so settings will be different in each case.

AM/FM Tuner Operation
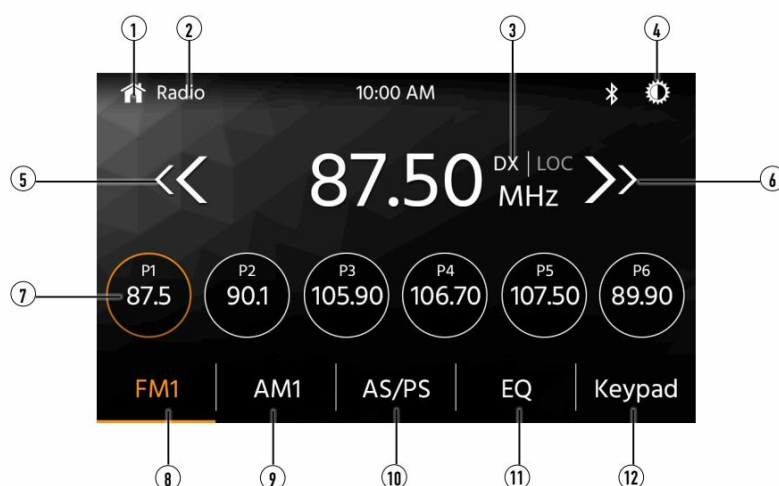
1. **Radio Operation**
   - From the main menu, touch the Radio icon on the screen to select AM/ FM tuner mode.

2. **Main Menu**
   - Press ⌂ icon to return to the Main Menu screen.

3. **Current Mode Indicator**
   - Display status of various tuning functions including Auto.

4. **Local** / **Distance**
   - Press DX/LOC text to turn on the local or distance.

5. **Dimmer**
   - Press the icon to adjust the brightness.

6. **Seek Tune Down**
   - Press to automatically tune to a lower frequency.

7. **Seek Tune Up**
   - Press to automatically tune to a higher frequency.

8. **Preset Stations**
   - To store a station as a preset in the current band, tune to the desired station, then press the desired preset number from the list. Press any preset in the list to recall and begin playback of that station. (Hold this button down for a few seconds and it will switch between AS and PS)

9. **FM**
   - Press to toggle between FM1, FM2 and FM3.

10. **AM**
    - Press to toggle between AM1 and AM2.

11. **AS/PS**
    - Auto Store Presets: Press and hold AS/PS to automatically program the FM(18)/AM(12) available into the presets in the current Band. Preset Scan: Press AS/PS to scan through all tunable presets in the current band and play them for 3 seconds each.
12. **EQ**
    - Press the icon to adjust the Equalizer setting.
13. **Keypad**
    - Direct Search Keypad

USB Operation

1. **USB**
    - From the main menu, touch the USB icon on the main screen.
2. **Main Menu**
    - Press icon to return to the Main Menu screen.
3. **Current Mode Indicator**
    - Displays source currently playing.
4. **EQ**
    - Press the EQ icon to adjust the Equalizer setting.
5. **Search**
    - Press icon to search a music file.
6. **List**
    - Press icon to access a list of all files and folders on the device.
    - Press to access the root directory
    - Press a folder name to access that folder, and press to return to the file list
    - Use the up and down arrows to navigate the file list
    - Press the " BACK " arrow to return to the previous screen.
7. **Repeat**

- Press ⮎ icon to repeat current track and adjust to repeat all tracks in the current folder. Touch RPT again to exit repeat mode.

8. **Random**

   - Press ⤬ icon to shuffle all tacks in the current folder. and again to shuffle all tracks. Touch ⤬ icon again to exit Repeat mode.

9. **Track Down**

   - Press ◄| icon to return to the beginning of the current track.

10. **Play / Pause**

   - Press ▶/|| icon to pause or resume playback.

11. **Track Up**

   - Press ▶| icon to skip ahead to the next song

Media Compatibility

File Type			MP3
File System	FAT	FAT 12	**X**
		FAT 16/ FAT 32	✔
File Extension	.mp3/.MP3/.Mp3/.mP3/.flac/ogg		✔
	.rmp/.m4a		X
MPEG Format	MPEG 1		✔
	MPEG 2		✔
	MPEG 2.5		✔
Sampling Frequency	MPEG 1		32/44.1/48kHz
	MPEG 2		12/16/22.05/24kHz
	MPEG 2.5		8/11.025/12kHz
Bitrate	MPEG 1		32 ~ 320kbps
	MPEG 2		8 ~ 160kbps
	MPEG 2.5		8 ~ 160kbps
Other Information	Directory Depth		Unlimited
	File Name Length		32 bytes
	Total File Number		2000 files
	Total Folder Number		200 folders
	File Number via Folder		2000 files
	MP3 ID3 TAG	ver.1.x	✔
		ver.2.x	✔
		Title, Artist, Album	✔

Notes

- Due to ongoing technological advancement, some USB flash drives may be incompatible with this unit.

Media Compatibility

- **Media Compatibility**

The following types of files are not compatible:

- MP3 PRO format, MP3 playlists
- RMP format
- AAC, protected AAC, M4A format
- **Playback Order**
    - MP3 playback sequence begins in the root folder of the USB device. Any empty folders or folders that do not include MP3 files are skipped.
- **Compatible Recording Formats**

ISO9660 standards:

- Maximum nested folder depth is 8 (including the root folder).
- Valid characters for folder/file names are letters A (all caps), numbers 0-9, and "_" (underscore). Some characters may not be displayed correctly, depending on the character type.
- This device can play back files in Joliet and other standards that conform to ISO9660. MP3s written in formats other than the above may not play and/ or their file names or folder names may not be displayed properly.

Notes
Some files may not play or be displayed correctly, depending on sampling rates and bit rates. For best results, use the following settings when ripping MP3 files: 128kbps or higher constant bit rate 44.1kHz or higher sampling frequency.

Bluetooth Operation
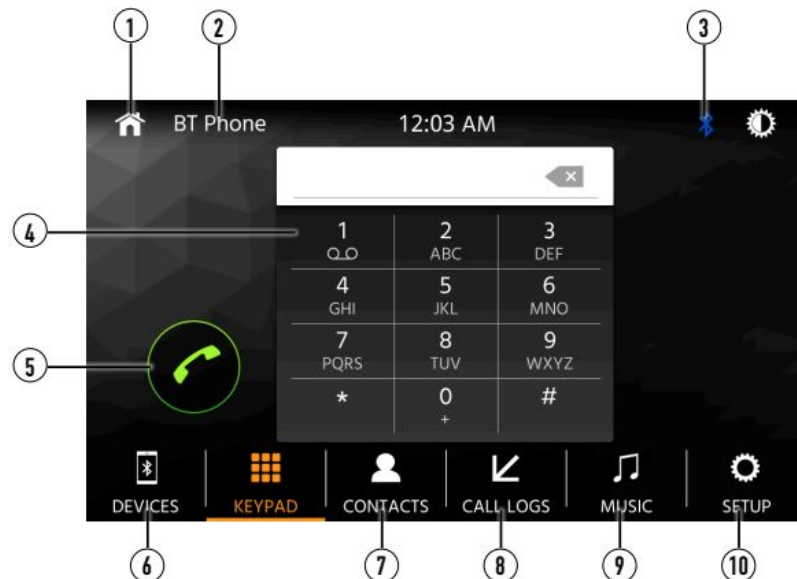
- **Before using Bluetooth**
    - Before you can use a Bluetooth device to make hands-free calls or stream audio. it must be authenticated. This is also referred to as "pairing" a device.
- **Pairing a New Device**
    - The unit broadcasts the pairing signal constantly when no devices are currently connected. Complete the pairing sequence from your Bluetooth device. Refer to the owner's manual for your device for more details. The device name is "DCPA701". The unit can be in any mode of operation when pairing is performed. On certain phones, pairing may need to be done more than once.

- **Connect**
  - The head unit will automatically connect to the last connected device when the connect feature is set to Auto connect On. If the connect feature is set to Auto Connect Off, the head unit will not automatically connect to any device.
- **Bluetooth Phone**
  - From the main menu. touch the Bluetooth on the screen. Bluetooth icon will appear anytime a Bluetooth device is connected.
- **Main Menu**
  - Press 🏠 icon to return to Main Menu screen.
- **Current Mode Indicator**
  - Displays current mode of operation.
- **Bluetooth Status indicator**
  - When Bluetooth is On and a Bluetooth device is being paired. the indicator will flash. When Bluetooth is On and a phone is connected to the unit. the indicator will illuminate steady.
- **Phone Keypad**
  - Use the keypad to dial a phone number.
- **Call**
  - Dial a number and touch the Phone icon to call.
- **Devices**
  - Press the DEVICES to show the pairing device list. To connect to a previously connected device. press the current device name. Any previously connected devices that are in rang will be listed by their device name. Press the desired device name to disconnect from the current device and connect to the new device.
- **Phone Book**
  - Press "CONTACTS" to access the phone book menu.
- **Call Log**
  - Press the Call Log to show(Dialed, Missed, and Received Calls).
- **Bluetooth Music**
  - Press MUSIC to transfer audio between the unit and the mobile phone.
- **Setup**
  - Press "SETUP" to access Bluetooth settings.

- **End Call**
  - Press the End icon on the screen or the End button on the front Panel to end a call in progress or to reject an incoming call.

- **Audio Transfer Button**
  - Press to transfer audio between the unit and the mobile phone.
- **Microphone**
  - Turn the Microphone voice On or Off.
- **Keypad**
  - Press to return to the Keypad screen.
- **Repeat**
  - Press ↪ icon to repeat the current track and adjust to repeat all tracks in the current folder. Touch RPT again to exit repeat mode.
- **Track Down**
  - Press ⏮ the icon to return to the beginning of the current track.
- **Play / Pause**
  - Press ▶/❚❚ the icon to pause or resume playback.
- **Track Up**
  - Touch ▶❙ the icon to skip ahead to the next song.
- **Random**
  - Press ⤭ the icon to shuffle all tracks in the current folder. and again to shuffle all tracks. Touch ⤭ icon again to exit Repeat mode.

Apple CarPlay Operation

Apple CarPlay™ is a smart interface for iPhone, allowing you to voice-control (via Siri) music, navigation, phone and messaging apps – significantly reducing driver distraction.

Phone - Use Siri to make calls, return missed calls, listen to voicemail messages, and view the caller ID on the receiver's screen.

Messages - Ask Siri to send, read, and reply to text messages. This hands free operation minimizes distraction and allows you to keep hands on the wheel and eyes on the road.

Music - Access music by artist, song, playlist, and more through the receiver's touchscreen or via Siri. The receiver will mirror the iPhone screen with artist and track information.

Maps - Use Siri to request turn-by-turn directions – search by address or points of interest. Apple Maps will be mirrored on the screen, including traffic information and estimated time to destination.

Compatible Devices

Made for iPhone models:
iPhone12 mini, iPhone 12 , iPhone 12 Pro, iPhone Pro Max, iPhone 11 Plus, iPhone 11, iPhone XS Max, iPhone XS, iPhone XR, iPhone X, iPhone 8, iPhone 8 Plus, iPhone 7, iPhone 7 Plus, iPhone 6, iPhone 6S

Starting Apple CarPlay™
Wireless CarPlay Connection Description.

1. Enter the main UI and click BT Phone to enter the Bluetooth interface;
2. Click Refresh to search for nearby Bluetooth, and click Pair to match Bluetooth;
3. Open the iPhone WLAN to connect to the car, after the connection is successful, the CarPlay icon in the device list will appear, and the CarPlay connection is successful;
4. Enter the CarPlay interface, click the functions of Phone/ Music/Map/Information/etc.

- **Note:** For safety reasons, CarPlay features are limited while driving and will vary with each CarPlay-enabled app. Available functions are determined by each individual app provider. For more information, visit www.apple.com/ios/carplay.
- **Note:** Certain iPhone functions may be illegal while driving in your location. Be sure to familiarize yourself with local and state laws regarding mobile devices. When in doubt, stop and park your vehicle before using any devices.

Apple CarPlay Operation

When the CarPlay menu is displayed, the home button in the lower left corner work just like the home button on your iPhone.

- Press and hold it to summon Siri and begin your voice commands.
- At any time during CarPlay operation, you can press this button momentarily to return to the main CarPlay menu screen.

Press any Application button on the main CarPlay menu to access that operation directly. The toolbar on the left side of the screen displays the time, signal strength and shortcuts to the most popular applications – Phone, Music and Navigation – so they can be accessed quickly and easily without returning to the main menu.

Controlling Apple CarPlay™
The following basic controls will operate many standard CarPlay features.

Touch - Briefly press the desired option.

Swipe - Briefly swipe in the desired direction.

Drag - Press, hold and drag to the desired location.

Exiting Apple CarPlay™
Disconnecting your iPhone will automatically exit CarPlay mode. To exit CarPlay mode while your phone is still connected, press the Power/Volume knob momentarily, and the unit's main menu will be displayed.

Android Auto™ Operation
Android Auto™ brings the most useful apps to your phone screen or your compatible car display, in a format that makes it easy for you to keep your main focus on driving. You can control things like navigation and maps, calls and text messages, and music.

Google Assistant
With your Google Assistant on Android Auto, you can keep your eyes on the road and your hands on the wheel while using your voice to help you with your day. Simply say, "Ok Google," or in compatible cars, long press the voice control button on your steering wheel.

Navigation
Get real-time traffic alerts to avoid hazards, and speed traps, and find the fastest route. Or take a break and find a bite along the way.

Calls & Messages
Your Google Assistant lets you stay connected while you're driving. Your Assistant can help you call phone numbers from your contacts, chat with your favorite apps, read your messages aloud and text back, keeping your hands on the wheel.

Compatible Devices
Android Auto™ requires the Android Auto app from Google Play installed on an Android smartphone running Android Lollipop 5.0 or higher.

Warning:
Certain uses of the smartphone may not be legal while driving in your jurisdiction, so you must be aware of and obey any such restrictions. If in doubt as to a particular function, only perform it while the car is parked. No feature should be used unless it is safe to do so under the driving conditions you are experiencing.
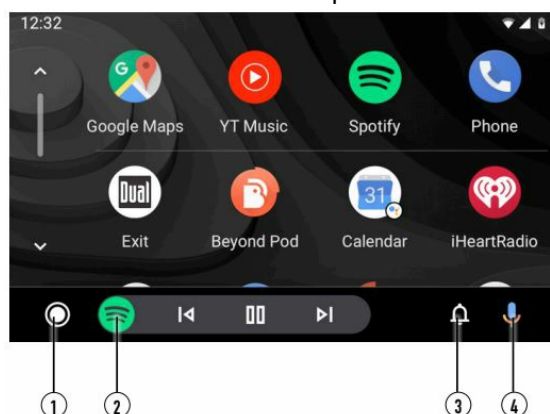
Starting Android Auto™
Wireless Android Auto Connection Descriotion.

1. Enter the main UI and click BT Phone to enter the Bluetooth interface;
2. Click Refresh to search nearby Bluetooth, You'd better turn on your Phone's WLAN before you connect to Bluetooth, otherwise, the connection will fail;
3. Click Pair to match Bluetooth, then there will be a notification to select settings and select your mobile phone, and the Android Auto connection is successful;
4. Enter the Android Auto interface, click the functions of Phone/ Music/Map/Information/etc.

Note: When the device for Android Auto is connected to this unit, the device is also connected via Bluetooth at the same time. If five devices are already paired, the message confirming whether to delete the registered device is displayed. If you want to delete the device, touch [Agree]. If you want to delete another device, touch [BT Settings] and delete the devices manually.

Note: If Android Auto is turned on during a call on a cellular phone other than the Android Auto-compatible device, the Bluetooth connection will switch to the Android Auto-compatible device after the call.

1. Android Auto Home Button

2. Recent Apps

3. Notification Button

4. Activate Google Assistant™

Exiting Android Auto™
To exit Android Auto™, press the Exit button. Disconnecting your Android phone will automatically exit Android Auto™ mode.

Rear RCA Input

- **A/V IN**
  - Connect an optional audio/video source into the RCA (rear) input. Adjust volume on the external audio source as needed (if connected to the headphone output of the device).

Rear Camera Operation – (Optional)

- **Using Rear Camera**
  - Connect an optional rear camera to the Camera Input (Black RCA connector). Refer to the wiring diagram for details.
    Auto Selection
  - The unit will automatically select camera mode when connected to the reverse lamp circuitry.

SWC Input Operation

The built-in SWC Interface is compatible with PAC steering wheel control modules. The PAC SWI-RC is recommended. A third-party adapter must be used in order for the DCPA701 to be compatible with any steering wheel controls. The following controls are available for most vehicles.

1. Reset	4. Seek/Track Down (-)	7. Volume Down (-)	10. BT End
2. Mode	5. Mute	8. Band	
3. Seek/Track Up (+)	6. Volume Up (+)	9. BT Talk	

Note: Not all OE steering wheel functions may be supported by the DCPA701.

PAC SWI-RC Installation Hints

1. Set "Radio Select Switch". Set the SWI-RC to position 7 – "Pioneer/Other/Sony".
2. To program, use the Pioneer/Sony/Other radio function mapping order for DUAL units.
3. When programming the SWI-RC, if a function is not supported (or not desired), then the function MUST be skipped as per the PAC SWI-RC instructions.
4. The SWC function MUST be programmed in the correct order per the PAC SWI-RC radio function mapping order instructions.

Function Order	Function Mapping	SWI-RC (3.3VDC Reference)	
		Center Pin (Ring) Voltage (Function Select)	Tip Pin Voltage
1	Reset		
2	Mode		
3	Seek + / Track +	H 3.3v	0.6
4	Seek – / Track –	H 3.3v	1.81
5	Mute	H 3.3v	1.01
6	Volume +	H 3.3v	2.07
7	Volume –	H 3.3v	2.32
8	Band	H 3.3v	2.73
9	BT Talk	L 0.0V	0.60
10	BT End	L 0.0V	1.01

Troubleshooting

General		
Problem	Cause	Action
The unit will not turn on (no power)	Yellow wire not connected or incorrect voltage Red wire not connected or incorrect voltage	Check connections for proper voltage (11~16VDC)
	Black wire not connected	Check the connection to the ground
	Fuse blown	Replace fuse(s)
The unit has power (but no sound)	Speaker wires not connected	Check connections at speakers
	One or more speaker wires touching each other or touching the chassis ground	Insulate all bare speaker wires from each other and chassis ground
Unit blows fuse(s)	Yellow or red wire touching chassis ground	Check for pinched wire
	Speaker wires touching chassis ground	Check for pinched wire
	Incorrect fuse rating	Use fuses with the correct rating
The unit has audio (but no video)	Parking brake safety circuit not connected Parking brake not applied	Check connections at the parking brake Apply the parking brake as described on page 26
IR remote does not work	Dead battery	Replace battery

For Your Records

Please keep your original sales receipt and be prepared to provide this receipt in the event you require service, as your original receipt is considered the best proof of purchase and indicates the date you purchased your Dual product.

- Dealer Name
- Dealer Phone
- Purchase Date

Register Your Product

Register your product online at **www.dualav.com**.

Specifications

- FM Tuner
    - **Tuning range:** 87.5MHz-107.9MHz
    - **Usable sensitivity:** 10dBf
    - **50dB quieting sensitivity**: 20dBf
    - **Stereo separation @ 1kHz:** 38dB
    - **Frequency response:** 30Hz-13kHz

- AM Tuner
    - **Tuning range**: 530kHz-1710kHz
    - **Usable sensitivity:** 24uV
    - **Frequency response:** 30Hz-2.3kHz
- Front USB
    - **Compatibility:** High-Speed USB 2.0
    - **USB Class**: Mass storage class
- Monitor
    - **Panel size:** 7" diagonal measurement
    - **View angle (up/down/left/right):** 50/70/70/70
    - **Resolution:** 1024 (H) x 600 (V)
    - **Brightness (cd/m2)**: 500
    - **Contrast ratio:** 500:1
    - **Pixels:** 1,152,000
- General
    - **Speaker output impedance**: 4 ohms
    - **Line output voltage:** 2 volt RMS
    - **Line output impedance:** 200 ohms
    - **Chassis dimensions:** 7″ x 5″ x 4″ (W x D x H)

Design and specifications are subject to change without notice. CEA-2006 Power Standard Specifications (reference: 14.4VDC +/- 0.2V, 20Hz~20kHz) Power Output: 16 Watts RMS x 4 channels at 4 ohms and < 1% THD+N Signal to Noise Ratio: 80dBA (reference: 1 watt into 4 ohms)

Limited One Year Warranty

This warranty gives you specific legal rights. You may also have other rights which vary from state to state. Dual Electronics Corp. warrants this product to the original purchaser to be free from defects in material and workmanship for a period of one year from the date of the original purchase. Dual Electronics Corp. agrees, at our option, during the warranty period, to repair any defect in material or workmanship or to furnish an equal new, renewed or comparable product (whichever is deemed necessary) in exchange without charges, subject to verification of the defect or malfunction and proof of the date of purchase. Subsequent replacement products are warranted for the balance of the original warranty period.

Who is covered? This warranty is extended to the original retail purchaser for products purchased from an authorized Dual dealer and used in the U.S.A.

What is covered? This warranty covers all defects in material and workmanship in this product. The following are not covered: software, installation/removal costs, damage resulting from accident, misuse, abuse, neglect, product modification, improper installation, incorrect line voltage, unauthorized repair or failure to follow instructions supplied with the product, or damage occurring during return shipment of the product. Specific license conditions and copyright notices for the software can be found via **www.dualav.com**.

What to do?

1. Before you call for service, check the troubleshooting guide in your owner's manual. A slight adjustment of any custom controls may save you a service call.
2. If you require service during the warranty period, you must carefully pack the product (preferably in the original

package) and ship it by prepaid transportation with a copy of the original receipt from the retailer to an authorized service center.

3. Please describe your problem in writing and include your name, a return UPS shipping address (P.O. Box not acceptable), and a daytime phone number with your shipment.

4. For more information and for the location of the nearest authorized service center please contact us by one of the following methods:

   - Call us toll-free at 1-866-382-5476
   - E-mail **usatcs@dualav.com**

Exclusion of Certain Damages: This warranty is exclusive and in lieu of any and all other warranties, expressed or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose and any obligation, liability, right, claim or remedy in contract or tort, whether or not arising from the company's negligence, actual or imputed. No person or representative is authorized to assume for the company any other liability in connection with the sale of this product. In no event shall the company be liable for indirect, incidental or consequential damages.

Dual Electronics Corp. Toll Free: 1-866-382-5476 Monday-Friday, 9AM-5PM EST **www.dualav.com** ©2021 Dual Electronics Corp. All rights reserved. NSC0421-V01

Documents / Resources

DUAL DCPA701 Media Receiver with Android Auto and CarPlay [pdf] Owner's Manual
DCPA701 Media Receiver with Android Auto and CarPlay, DCPA701, Media Receiver with Android Auto and CarPlay, Android Auto and CarPlay, Auto and CarPlay

References

- 🤖 **Android Auto | Android**
- ᴹH **Search - Manual-Hub.com**
- **iOS - CarPlay - Apple**
- **Dual Electronics - Home Page**
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