JENSEN®

VX3022

6.2" Single DIN Multimedia Receiver
DVD / Built-In BT Technology /
iPhone®/ iPod®/ USB / AV In

Operation Manual
Thank you for choosing a Jensen product. We hope you will find the instructions in this owner’s manual clear and easy to follow. If you take a few minutes to look through it, you’ll learn how to use all the features of your new Jensen VX3022 Mobile Multimedia Receiver for maximum enjoyment.

iPod® Control “iPod” is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

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VX3022 COMMON REPLACEMENT PARTS (Back Cover)
FCC Statement
1. 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.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.
   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 receiver.

FCC Radiation Exposure Statement
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 centimeters between the radiator and your body.

"Made for iPod," and "Made for iPhone" mean that an electronic accessory (This head unit) has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this head unit with iPod or iPhone may affect mobile phone performance.

iPhone and iPod are trademarks of Apple Inc., registered in the U.S. and other countries.
Saftey Precautions

Please read these operating instructions so you will know how to operate your model properly. After you’ve finished reading the instructions, keep this manual in a safe place for future reference.

Only connect the unit to a 12-volt power supply with negative grounding.

Never install this unit where the operation & condition for safe driving is impaired.

Never use the video display function in the front when driving to prevent the violation of laws & regulations and also to reduce the risk of traffic accident except for using rear view video camera.

Never expose this unit, amplifier and speakers to moisture or water to prevent electric sparks or fire.

Please don’t change the fuse on the power cord without professional guidance, using an improper fuse may cause damage to this unit or even cause fire.

Please contact your nearest dealer if one of the following symptoms is experienced:

(a). Water or other objects enter the unit.
(b). There is smoke.
(c). Peculiar smell.

To ensure safe driving, please adjust the volume to a safe and comfortable level in case of emergency situations.

1.) Never disassemble or adjust the unit without any professional guidance. For details, please consult any professional car shop / dealer for inquiry.

2.) If the front panel or TFT monitor is dirty, please use a clean silicone cloth and neutral detergent to wipe off the spot. Using a rough cloth and non-neutral detergent such as alcohol for cleaning may result in damage to the monitor.

3.) If any abnormal behavior of the unit is found, please refer to trouble shooting guide of this manual. If no relevant information is found, please press the [RESET] key on the front panel to resume factory default.

4.) If you have parked the car in hot or cold weather for a long time, please wait until the temperature in the car becomes normal before operating the unit.

5.) Using the car heater in low temperature environment may result in moisture inside the unit, DO NOT use the unit in this situation. Eject the disc and wipe off the moisture on the disc. If the unit still doesn’t work after a few hours, please contact the service center.

6.) Do not impact the LCD monitor which could cause damage.

7.) To prevent damage to the screen, avoid touching it with sharp objects.

8.) To provide a clear demonstration and an alternative for easy understanding to the operation of this unit, graphic illustrations are used. However, some illustrations are different from the actual images displayed on the screen.

9.) Operate the unit correctly according to this manual to prevent unnecessary problem. The guarantee won’t be valid if the problem is caused by inappropriate operation.
FEATURES
Please read the instruction manual for this product before using. The documentation provided will allow the user to fully enjoy all the features of your new Jensen VX3022 Mobile Multimedia Receiver. Please read all of the instructions before beginning the installation and save this manual for future reference. We recommend having your Jensen VX3022 installed by a reputable installation shop.

DVD
• Audio Equalizer
• Next Chapter and Previous Chapter
• Play/Pause
• Track Direct Entry
• Disc Menu
• Selection Repeat / Track Repeat
• Disc Audio
• Disc Language
• Pic Control

CD / MP3 / WMA
• CD-Text Compatible
• ID3 Tag Compatible
• Directory Search (MP3 / WMA Only)
• Audible Forward / Reverse Track Search
• Random, Repeat and Intro
• Play, Pause, Stop, Next Track and Previous Track

AM-FM
• Region Support: USA, Asia, Japan, Europe, Eur LW (Europe Long Wave), Oirt
• 30 Station Presets (18 FM / 12 AM)
• Auto Stereo / Mono
• Local / Distance
• Auto Store

iPod®/iPhone®
• iPod®/ iPhone® via USB
• High Speed Direct Connect Interface to Access iPod® Playlists, Artists, Albums and Songs.
• Power Management Charges iPod®/ iPhone® while Connected
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Chassis
- 2.0 DIN (Import / ISO-DIN Mountable)
- Fixed Front Panel
- 6.2” High Definition TFT LCD
- Resolution: 800h x 480v x RGB WVGA
- Beep Tone Confirmation

General
- Built-In BT providing Hands-Free operation for safety and convenience and A2DP for streaming music from your smartphone or other BT device.
- One Composite Video Output for Additional Screens
- Front Panel Audio/Video Input
- 3 Band Parametric Equalizer - Bass, Mid-Range and Treble
- Rear Panel Audio/Video RCA Input
- Front, Rear and Sub RCA Line Output - 2VRMS
- Rear Camera Input
- Touch Screen Calibration Mode
- Rotary Encoder Audio Control
- USB Charging Current - 2.1 Amp Support

REAR CAMERA
The VX3022 is “camera ready.” Before accessing any camera features, you must purchase and install a rear video camera.
Figure 1. VX3022 Controls and Indicators

Notice:
The graphic in this manual is for reference only, and may be different from the actual unit. Reference to actual unit is suggested.
1.) DISC SLOT: Accepts DVD/CD/MP3 discs. If the unit is turned on, playback begins when a disc is inserted.

2.) EJECT [▲] Button: Press this button to eject a DVD/CD/MP3 disc. Disc play is stopped, the disc is ejected and the unit will change to radio operation. If the disc is not removed from the unit and the button is pressed again, the disc will be re-loaded. If the disc is not removed from the disc slot within 10 seconds of being ejected, it will be automatically reloaded to prevent it from being accidentally damaged.

3.) MENU Button: Press the button to display the Main Touch Screen Source Menu. Press this button again to return to the selected source.

4.) ROTARY ENCODER / POWER ON/OFF Knob: Press Rotary Knob to turn the unit ON. Rotate the knob to adjust the volume from 0 to 50. Pressing the knob momentarily will mute and un-mute the audio. Press and hold the knob for 2 seconds to turn the unit OFF.

5.) RESET Button: Press this button to reset the system settings (except password and parental lock settings) and to correct a system halt or other illegal operation. Use the tip of a pen to press the Reset button.

6.) USB/AV CONNECTOR COVER: Covers the USB/AV interface connector.

7.) USB: Connect a USB device for playback of music /video files.

8.) A/V INPUT: Attach compatible A/V devices.

9.) IR REMOTE SENSOR: Used to receive command signals from the remote control.

10.) TFT MONITOR
Remote Control Function Description

1. **SOURCE (SRC) Button:** Press this button to switch between and select available sources. (Radio/Disc/BT/USB/BT Audio/SCW/AUX-1/AUX-2/Camera)

2. **EJECT Button (▲):** Press this button to eject a DVD/CD/MP3 disc. Disc play is stopped, the disc is ejected and the unit will change to radio operation. If the disc is not removed from the unit and the button is pressed again, the disc will be re-loaded. If the disc is not removed from the disc slot within 10 seconds of being ejected, it will be automatically reloaded to prevent it from being accidentally damaged.

3. **AUDIO Button:** Press to display and select the audio language in DVD mode. Each time the button is pressed, the language changes. **NOTE:** The languages for audio vary from disc to disc.

4. **VOLUME Button (VOL + and -):** Press these buttons to increase or decrease the playback volume.

5. **BAND Button:** Press this button to scroll though preset stations or when in disc mode, this button is used for Fast playback / Slow playback. Press this button to answer an incoming BT phone call.

6. **REPEAT (RPT) Button:** Repeat playback

7. **MUTE Button:** Press this button to turn the audio output ON and OFF.

8. **POWER Button (朝):** Press this button to turn the unit ON and OFF.

9. **SUBTITLE Button:** Press to display and select the subtitle language in DVD mode. Each time the button is pressed, the subtitle language changes. **NOTE:** The type and number of languages for subtitles vary from disc to disc.

10. **MENU Button:** Press this button to access the root menu of a DVD or CD during playback. The disc will return to normal playback and the root menu will disappear if no selection is made within 10 seconds.

11. **FAST FORWARD [►►] Button:** Press this button to forward Disc play 2x, 4x, 8x or 20x normal speed. Press this button while in Radio mode to search available radio station by increasing tuning frequency.
12. NEXT (►►) Button: Press this button to skip to the next chapter, track or song during playback of a disc. Press this button while in Radio mode to search available radio station by increasing tuning frequency.

13. PLAY / PAUSE (►/II) Button: Press this button to pause the playback of a disc. Press this button again to resume normal playback.

14. PREVIOUS (◄◄) Button: Press this button to go back to the previous chapter, track or song during playback of a disc. Press this button while in Radio mode to search available radio station by decreasing tuning frequency.

15. FAST REVERSE [◄◄] Button: Press this button to reverse Disc play 2x, 4x, 8x or 20x normal speed. Press this button while in Radio mode to search available radio station by decreasing tuning frequency.

16. NUMBER Buttons (1-6): Press these buttons to directly access chapters and tracks, dialing phone numbers, or entering passwords.

17. RANDOM (RDM) Button: Press this button to play tracks or chapters in random order while playing a disc.

NOTES ON REMOTE CONTROL USAGE

- Aim the remote control at the TFT/screen.
- Remove the battery from the remote control or insert a battery insulator if the remote control will not be used for a month or longer.
- DO NOT store the remote control in direct sunlight or in a high temperature environment, or it may not function properly.
- The battery will last for 6 months under normal conditions. If the remote control does not work, please change the battery.
- Use lithium battery type CR2025 (3V) only.
- DO NOT recharge, disassemble, heat or expose the battery to fire.
- Insert the battery in the proper direction according to the (+) and (-) polarity marks.
- Store the battery in a place where children cannot reach it to avoid the risk of an accident.
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**QUICK START GUIDE**

**Turning the Unit ON or OFF**
Press the front panel Power/Menu button [萱 / SRC ] to turn the unit ON. To turn the unit OFF, press and hold the front panel Power/Menu button [萱 / SRC ] for 2 seconds.

**Selecting an Audio/Video Source, BT or Backup Camera**
To access an Audio/Video source:

1. Momentarily press the front panel Power/Menu button or touch the Menu icon 🏛 located in the upper left corner of the display to view the Main Menu Screen.

2. Touch the desired source icon on one of the two main menu screens. Screen 1 of 2: Radio, Disc, BT, USB. Touch page arrow (→) at the bottom of the screen to access Screen 2 of 2: BT Audio, Steering Wheel Control (SWC), AV-IN1, AV-IN2, or Camera.
Mute
Press the volume knob on the front panel or press the [MUTE] Button on the remote control to mute the volume from the unit.

Volume Adjustment
Volume Increase/Decrease
To increase or decrease the volume level, turn the rotary encoder on the front panel. When the volume level reaches "0" or "50", a beep sounds, indicating that the adjustment limit has been reached. The TFT screen displays the volume level for 3 seconds.

Audible Beep Confirmation
An audible beep tone confirms each function selection. The beep tone can be disabled through the Setup menu.

Resetting the System
Soft Reset - To correct a system halt or other illegal operation, use the tip of a pen to press and release the Reset Button located just below the front panel rotary encoder (volume) knob.

For a Hard Reset - Go to "Settings" > DVD tab > Load Factory > Reset. After a "System Reset", the unit will restore all default settings.

Change Aspect Ratio (DVD / AV In Sources Only)
Press the [WIDE] button on the remote control to adjust the aspect ratio.

Image Settings (DVD / AV In Sources Only)
1. Enter image setting mode by pressing the [PIC] Button on the remote control.
2. Select the item to be adjusted and touch the Left or Right direction icons [ ▼ ]/[ ▷ ] on the user interface to adjust the value.
3. To exit image setting mode, press the [PIC] Button on the remote control again or simply stop making adjustments.
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Equalizer Controls
Equalizer (EQ): Adjustment can be made after entering one of the audio/video sources (Disc, Radio, USB, AV-IN1, or AV-IN2). Touch the Equalizer (EQ) icon to view the Equalizer Control Screen to select a desired audio preset level (Pop / Techno / Rock / Classic / Jazz / Optimal or User), make adjustments to the audio Balance and Fader levels or to turn the Loudness option ON or OFF. Touch the return icon to return to the current source.

Playing a Disc
To begin playback of an Audio/Video Disc:
1. Press the front panel Power/Volume/Mute control knob to turn the unit ON.
2. Insert a disc with the label side facing UP and playback will begin automatically.

Parking Brake Inhibit
When the pink “Parking” wire is connected to the vehicle Parking Brake circuit, the front TFT monitor will display video when the Parking Brake is engaged.

SYSTEM SETTINGS
1. Touch the Menu icon located in the upper left corner of the display to display the main menu.
2. Touch the Settings icon and the settings menu is displayed.

Figure 7. Settings Menu Screen
**General Settings**

1. Touch [General], if necessary.

2. Touch to highlight a setting to display/select an option.

<table>
<thead>
<tr>
<th>General settings</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio region</td>
<td>USA/Asia/Japan/</td>
<td>Select one that matches your location.</td>
</tr>
<tr>
<td></td>
<td>Europe/Eur LW/</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oirt</td>
<td></td>
</tr>
<tr>
<td>Radio range</td>
<td>Local</td>
<td>Select Local to receive only stations with extremely strong signal.</td>
</tr>
<tr>
<td></td>
<td>Distance</td>
<td></td>
</tr>
<tr>
<td>Beep</td>
<td>On</td>
<td>Turn-ON the beep sound. Each time you press a button, the unit beeps.</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>Turn-OFF the beep sound.</td>
</tr>
<tr>
<td>Calibration</td>
<td>Start</td>
<td>Calibrate the touch screen.</td>
</tr>
<tr>
<td>Demo</td>
<td>On</td>
<td>Turn-ON Retail Demo Mode.</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>Turn-OFF Retail Demo Mode</td>
</tr>
</tbody>
</table>

4. Touch Menu icon located in the upper left corner of the display to exit.

**Calibration**

Calibrate the touch screen using the calibration setting function.

**Recalibrating the Touch Screen:**

1. Press the [Calibration] option on the setup menu to enter.

2. Touch [Yes] to enter.

3. Press and hold the center of [+] for 5 seconds, the [+ ] will move automatically.

4. Aim at center of [+], follow the path as shown in the figure. Once steps 1-4 are complete the system will automatically exit calibrating mode.

![Figure 8. Calibration Screen](image-url)
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Video Settings
1. Touch [Video].
2. Touch an option repeatedly to select.

<table>
<thead>
<tr>
<th>Video settings</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspect Ratio</td>
<td>Full</td>
<td>Adjust aspect ratio.</td>
</tr>
<tr>
<td></td>
<td>Normal</td>
<td></td>
</tr>
<tr>
<td>Rear Camera</td>
<td>Mirror</td>
<td>Reverse the camera image as if looking through a rear-view mirror.</td>
</tr>
<tr>
<td></td>
<td>Normal</td>
<td></td>
</tr>
</tbody>
</table>

3. Touch the return icon to exit and return to the previous screen.

Time Settings
1. Touch [Time].
2. Touch an option repeatedly to select:

<table>
<thead>
<tr>
<th>Sound settings</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>Year / Mon / Day</td>
<td>Touch [△] or [▼] to set year, month and day.</td>
</tr>
<tr>
<td>Clock mode</td>
<td>12Hr/24Hr</td>
<td>Touch [12Hr] or [24Hr] to switch clock mode.</td>
</tr>
<tr>
<td>Time</td>
<td>Hour / Min / AM / PM</td>
<td>Touch [△] or [▼] to set hour and minutes. Touch [△] or [▼] to set AM/PM (only for 12Hr).</td>
</tr>
</tbody>
</table>

3. Touch the return icon to exit and return to the previous screen.

Audio Settings
1. Touch [Audio].
2. Touch an option repeatedly to select.

<table>
<thead>
<tr>
<th>Audio settings</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subwoofer</td>
<td>ON</td>
<td>Turn-ON the subwoofer.</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td>Turn-OFF the subwoofer.</td>
</tr>
<tr>
<td>Subwoofer filter</td>
<td>80Hz</td>
<td>Select a crossover frequency to set a cut-off frequency for the subwoofer’s LPF (low-pass filter)</td>
</tr>
<tr>
<td></td>
<td>120Hz</td>
<td></td>
</tr>
<tr>
<td></td>
<td>160Hz</td>
<td></td>
</tr>
<tr>
<td>Loudness Switch</td>
<td>OFF</td>
<td>Select low frequency boost only or high and low frequency boost.</td>
</tr>
<tr>
<td></td>
<td>Lo Boost</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hi&amp;Lo</td>
<td></td>
</tr>
<tr>
<td>Loudness Center</td>
<td>400Hz</td>
<td>Select loudness center frequency.</td>
</tr>
<tr>
<td></td>
<td>800Hz</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.4KHz</td>
<td></td>
</tr>
</tbody>
</table>

3. Touch the return icon to exit and return to the previous screen.
Language Settings
1. Touch [ Language ].
2. Touch an option repeatedly to select.

<table>
<thead>
<tr>
<th>Language settings</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSD</td>
<td>Select on-screen display language.</td>
</tr>
<tr>
<td>DVD audio</td>
<td>Select DVD audio language. Options available depending on DVD disc.</td>
</tr>
<tr>
<td>DVD subtitle</td>
<td>Select DVD subtitle language. Options available depending on DVD disc.</td>
</tr>
<tr>
<td>Disc menu</td>
<td>Select DVD menu language. Options available depending on DVD disc.</td>
</tr>
</tbody>
</table>

3. Touch the return icon to exit and return to the previous screen.

BT Settings
1. Touch [BT].
2. Touch an option repeatedly to select.

<table>
<thead>
<tr>
<th>BT Settings</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BT</td>
<td>ON</td>
<td>Turn-ON the BT function.</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td>Turn-OFF the BT function.</td>
</tr>
<tr>
<td>Auto connect</td>
<td>ON</td>
<td>If the pre-paired device is within the effective range, the unit re-connects to pre-paired device automatically.</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td>Need to re-connect manually.</td>
</tr>
<tr>
<td>Auto answer</td>
<td>ON</td>
<td>Answer paired phone call automatically.</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td>Answer phone call manually.</td>
</tr>
<tr>
<td>Pairing code</td>
<td>Set the password for pairing the unit with other BT device.</td>
<td></td>
</tr>
</tbody>
</table>

3. Touch the return icon to exit and return to the previous screen.

DVD Rating
1. Touch [DVD].
2. Touch an option repeatedly to select.

<table>
<thead>
<tr>
<th>DVD rating</th>
<th>Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set password</td>
<td>Set password to restrict the play of discs. The default password is 1234.</td>
<td></td>
</tr>
<tr>
<td>Rating level</td>
<td>Kid safe</td>
<td>Acceptable for children.</td>
</tr>
<tr>
<td></td>
<td>G</td>
<td>Acceptable for general viewers.</td>
</tr>
<tr>
<td></td>
<td>PG</td>
<td>Parental guidance suggested.</td>
</tr>
<tr>
<td></td>
<td>PG-R</td>
<td>Recommend parents to restrict viewing for children under 17.</td>
</tr>
<tr>
<td></td>
<td>R</td>
<td>Restricted re-parental guidance is advised for children under the age of 17.</td>
</tr>
<tr>
<td></td>
<td>NC-17</td>
<td>Unsuitable for children under age 17.</td>
</tr>
<tr>
<td></td>
<td>Adult</td>
<td>Acceptable for adults only.</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Load factory</th>
<th>Restore to default settings.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version Info</td>
<td>The Version Sub-menu is used to identify the model, hardware and software versions.</td>
</tr>
</tbody>
</table>

3. Touch the return icon to exit and return to the previous screen.

**Adjust Source Volumes (Relative Level)**
You can set different relative volumes for different sources.
1. Touch the [Volume] icon to display and access the Volume Setting Sub-Menu
2. Touch the source to be adjusted.
3. Touch [▲] or [▼] to assign value: 0 to 12. Default is "6", which is 0dB. Setting "0" is -6dB. Setting "12" is +6dB.
4. Touch the return icon to exit and return to the previous screen.
RADIO TUNER MODE

Select Radio as Playing Source

Open the SOURCE MENU and then touch [Radio].

Selecting a Radio Band

Press the [BAND] Button on the remote control or touch the [ ] icon on the user interface to select one radio band among FM1, FM2, FM3, AM1 and AM2.

Tuning AM-FM Stations

Seek Tuning

Press the [ ] / [ ] Buttons on the remote control or touch the [ ] / [ ] icons on the user interface to Seek the next / previous radio station.

To stop searching, repeat the operation above or press other buttons having radio functions.

NOTE: When a station is received, searching stops and the station is played.

Manual Tuning

Method 1:

Press and hold the [ ] or [ ] icon for 1 second to enter Manual Tuning mode. During manual tuning, the frequency will be changed in steps. Touch the [ ] / [ ] icon on the user interface to tune in a higher / lower station.

Method 2:

1. Touch the numeric keypad icon [ ]. Numeric keyboard is displayed, touch numbers to input frequency.
2. Touch [ ] to delete the input numbers step by step.
3. Touch [ OK ] to enter.

Preset Stations

The unit has 5 bands, such as FM1, FM2, FM3, AM1, AM2, and each band can store 6 stations; hence the unit can store 30 stations in total.

Storing Radio Stations in Memory

1. Tune to a desired station.
2. Touch and hold one of the presets (1 to 6) to save the selected station.
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Auto Store (AS)
Touch the search icon [�] to search radio stations and store the 6 strongest stations in the current band automatically.

Recalling a Station
1. Select a band.
2. Touch an on-screen preset button to select the corresponding stored station.

Local (LOC) / Distance (DX) Setting
When the Local function is on, only radio stations with a strong local radio signal are played. To activate the Local function in the AM/FM tuner mode, touch [ifique] on the screen. The Options tab is revealed. Touch [ifique] icon and choose the Radio Local or Distance. When the Local function is active, the LOC indicator at the top of the screen is illuminated. When the Distant function is active, the DX indicator at the top of the screen is illuminated.

EQ Selection
Touch the Equalizer [диал] icon and enter the EQ setup.

RDS
RDS (Radio Data System) transmits data to the radio which displays information such as station identification, song artist, and song title. RDS service availability varies with areas/regions. If RDS service is not available in your area, the following service will not be available.

Adjust RDS Settings
1. In Radio menu, touch [й] and [Option]. The option menu is displayed.
   2. Touch on the selected option to change the setting.
      · [RDS]: To turn the "RDS" function ON or OFF.
      · [CT]: To turn on or off "Clock Time" synchronization function.
      · [PTY]: To show PTY list.

CT (Clock Time)
Some stations broadcast the time and date within the encoded RDS signal. The clock time is automatically adjusted when ‘CT’ is set to ‘ON’.
Note: Stations broadcasting close to time zones may not broadcast the correct time in your particular area. In this case, turn CT Off and manually set the time.

PTY Function
PTY is the abbreviation for Program Type which is the function that displays the program category of the current station such as category (news, sports, talk etc.) Use the scroll bar to select various category codes.
Once a category code is selected the PTY options will display on the screen.

When one PTY option is touched (e.g. News), auto search for next available PTY by increasing tuning frequency until the PTY of the next station matches the current. If no matched PTY has been found, the unit will return to the original radio frequency.
PLAYBACK OF AUDIO FILES

Compatible Audio Discs Types
This system will play the following types of discs:

- DVD - DVDs that contain audio and/or video.
- Audio discs - Audio CD’s that contain audio files.
- MP3 discs - A disc that contains audio, video and image files (for example, a CD-R with downloaded MP3 files.

NOTE: This unit is designed to play pre-recorded (original) CD/DVDs. Some burned CD / DVDs may not play due to different recording formats.

DVD Operation

DVD Main Menu
NOTE: When properly installed, DVD video cannot be displayed on the main TFT screen unless the parking brake is applied. If you attempt to play a DVD while the vehicle is moving, the TFT screen displays:

Warning!!!

It is illegal to view video while driving or operating a motor vehicle. Set parking brake to view video.

From the Main Menu Screen touch the DISC Icon or insert a disc into the disc slot, label side up. Playback begins when a disc is inserted correctly.

Insert a disc

Upon inserting a disc, the unit will switch to [DISP] mode automatically.

Eject The Disc

Press the [ ] key on the front panel or remote control to eject the disc.

Touch Screen Controls

The touch key areas for DVD playback are outlined below:

A: Return to the main menu
B: Disc type
C: Time display
D: Play the video and display playback information
E: Display onscreen control menu

Figure 10. Screen Control Areas
VX3022

Controlling Playback
To access the on-screen controls, touch the screen anywhere except for the upper left corner and touch again to cancel display.

Connecting a USB Device
1. Open the USB door.
2. Connect a USB device into the USB connector. Play starts automatically.

NOTES:
1. If there are audio files supported on the USB stick, the system will enter the audio files menu automatically.
   If there are no audio files, but there are video files supported on the USB stick, the system will enter the video files menu automatically.
   If there are no audio or video files, but there are picture files supported on the USB stick, the system will enter the picture files menu automatically.
   If there no above audio/video/picture files supported on the USB stick, the screen will display: There are no audio/video/picture files supported.

2. Not all USB devices are compatible with the unit.

Play
Once a disc, or a USB device is inserted, play starts automatically.

Pause
When play the audio/video file, press the [ ▶ ] key on the remote control or open the on-screen control icons menu and then touch the [ ▶ ] icon, press the [ ▶ ] again and continue to play.

Stop
For audio files or video files, press the Stop [ ■ ] Button on the remote control or open the on-screen control icons menu and then touch the Stop [ ■ ] icon to stop. Press the [ ▶ ] to resume from the pausing point.
Touch the Stop [ ■ ] icon again to stop entirely, and press the Stop [ ■ ] Button on the remote control. Press the [ ▶ ] to playback from the top fil.

Previous/Next
Touch [ ﹨ ] / [ ﹩ ] key on the screen to skip to previous / next track / chapter.

Search for a Folder

For Folder Control
1. Touch [ ﹩ ] to display all available folders.
2. Touch a folder, then touch the desired fil.
3. Touch the file again to start play.

For Audio Files
1. Touch [ ﹩ ] to display all available audio folders.
2. Touch a folder, then touch the desired fil.
3. Touch the file again to start play.

Figure 11. Folder Screen
**Video Files**
1. Touch Video icon [ ] to display all available video folders.
2. Touch a folder, then touch the desired file.
3. Touch the file again to start play.

**Picture Files**
1. Touch Picture icon [ ] to display all available picture folders.
2. Touch a folder, then touch the desired file.
3. Touch the file again to start play.

**Repeat Playback**
Press the Repeat [RPT] Button on the remote control or open the on-screen control icons menu and then touch the Repeat[ ] icon to switch the repeat modes as below:

<table>
<thead>
<tr>
<th>Disc type</th>
<th>Repeat mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD</td>
<td>Repeat chapter → Repeat title → Repeat all → Repeat off</td>
</tr>
<tr>
<td>VCD (PBC off)</td>
<td>Repeat one → Repeat all → Repeat off</td>
</tr>
<tr>
<td>CD</td>
<td>Repeat one → Repeat all → Repeat off</td>
</tr>
<tr>
<td>MP3/WMA</td>
<td>Repeat one → Repeat folder → Repeat all → Repeat off</td>
</tr>
<tr>
<td>MPEG</td>
<td>Repeat one → Repeat folder → Repeat all → Repeat off</td>
</tr>
<tr>
<td>Picture</td>
<td>Repeat one → Repeat folder → Repeat all → Repeat off</td>
</tr>
</tbody>
</table>

**Repeat A-B**
When a DVD, VCD is played back, you can play back the contents between the time points from A to B repeatedly:

![Repeat A-B ON and OFF](image)

**Random Play**
You can play audio tracks/files in random order. During play CD, press the [RDM] key on the remote control repeatedly to turn Random play ON or OFF.

**NOTE:** When [Shuffle] is off, the unit resumes play from the current sequence.

**Playback Control Function**
This function is available for the VCD discs with Playback Control function (Ver 2.0 or higher). Press the [MENU] Button on the remote control or open the on-screen control icons menu and then touch the [ ] icon repeatedly to activate this function.

Press again to cancel.

**Notes:**
1. When Playback Control is ON, playback goes back to the track list and starts from the first track.
2. When Playback Control is on, fast motion playback, slow motion playback or skip search is available but repeat playback and searching for a particular chapter or track is prohibited.
3. If you use random playback, scan playback or searching playback when Playback Control is ON, Playback Control will be OFF automatically.

Figure 12. Repeat Mode

Figure 13. Repeat A-B ON and OFF
Select Audio Mode
When playing VCDs, the user can select an audio mode (R/L/Stereo).
1. During playback, touch the bottom half of the screen to display menu on the screen.
2. Touch the Next icon [ ] to display the 2nd menu.
3. Touch the Audio icon [ ] repeatedly until the audio mode is selected.

Select Subtitle Language
For DVD discs that contain two or more subtitle languages.
1. During play, touch the screen to display menu on the screen.
2. Touch the Next icon [ ] to display the 2nd menu.
3. Touch the Language icon [ ] repeatedly to select a language. The selected language is displayed.

Change Viewing Angle
Some DVDs contain alternate scenes, such as scenes recorded from different camera angles. For such DVDs, you can select from the available alternate scenes.
1. During playback, touch the screen to display menu on the screen.
2. Press the Angle icon [ ] repeatedly on the remote control. The viewing angle is changed.

Video Setup
Touch the Settings icon [ ] to access video setup mode, touch Left or Right direction icons [ ]/ [ ] to set the desired effect. You may set the brightness, contrast, and saturation of the video output from 1 to 20.

Playback Information
Touch the screen during playback of a DVD or VCD disc and the playback information will be displayed on the top area of the TFT.

For DVD

1. Disc type.
2. Return to the main menu.
3. DVD Title information. “1/6” indicates that this DVD has 6 titles and the title playing back now is the first title.
4. DVD Chapter information. “2/9” indicates that current title has 9 chapters and the chapter playing back now is the 5th chapter.
5. Time display.

Figure 14. DVD Information Display
For VCD

1. Disc type.
2. Return to the main menu.
3. VCD Track information. "1/16" indicates that this VCD has 16 tracks and the track playing back now is the first title.
4. Time display.

![VCD Information Display](image1)

**Elapsed Time**

1. Elapsed time of the current track.
2. Total time of the current track.

![Elapsed Time Display](image2)

**Direct Track Entry**

To select a track directly, touch the [ ] icon on screen control to display the direct entry menu. Enter the desired track using the on-screen number pad. Press [OK] to the selected track.

**Rotate Pictures**

1. When viewing pictures, touch the screen to display menu on the screen.
2. Touch the Rotate Icon [ ] repeatedly to rotate the picture.

**Zoom**

The user can zoom in pictures for a close view.

1. When viewing pictures, touch the screen to display menu on the screen.
2. Touch [ ] repeatedly to zoom in the picture.

![Zoom](image3)
General Disc Information

Disc Properties

<table>
<thead>
<tr>
<th>Symbol</th>
<th>12cm Disc Properties</th>
<th>Max Play Time</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="DVD Video" /></td>
<td>Single side single layer (DVD-5)</td>
<td>(MPEG 2 Method) 133 minutes</td>
</tr>
<tr>
<td></td>
<td>Single side double layer (DVD-9)</td>
<td>242 minutes</td>
</tr>
<tr>
<td></td>
<td>Double side single layer (DVD-10)</td>
<td>266 minutes</td>
</tr>
<tr>
<td></td>
<td>Double side double layer (DVD-18)</td>
<td>484 minutes</td>
</tr>
<tr>
<td><img src="image" alt="CD" /></td>
<td>Single side single layer (VCD)</td>
<td>(MPEG 1 Method) 74 minutes</td>
</tr>
<tr>
<td><img src="image" alt="VHS" /></td>
<td>Single side single layer</td>
<td>74 minutes</td>
</tr>
</tbody>
</table>

Disc Symbols

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Languages" /></td>
<td>Number of voice languages recorded. The number inside the icon indicates the number languages on the disc (maximum of 8).</td>
</tr>
<tr>
<td><img src="image" alt="Subtitle" /></td>
<td>Number of subtitle languages available on the disc (maximum of 32).</td>
</tr>
<tr>
<td><img src="image" alt="Angles" /></td>
<td>Number of angles provided (maximum of 9).</td>
</tr>
<tr>
<td><img src="image" alt="Aspect Ratios" /></td>
<td>Aspect ratios available. “LB” stands for Letter Box and “PS” stands for Pan/Scan. In the example on the left, the 16:9 video can be converted to Letter Box video.</td>
</tr>
</tbody>
</table>
| ![Region](image) | Indicates the region code where the disc can be played.  
- Region 1: USA, Canada, East Pacific Ocean Islands  
- Region 2: Japan, Western Europe, Northern Europe, Egypt, South Africa, Middle East  
- Region 3: Taiwan, Hong Kong, South Korea, Thailand, Indonesia, South-East Asia  
- Region 4: Australia, New Zealand, Middle and South America, South Pacific Ocean Islands/Oceania  
- Region 5: Russia, Mongolia, India, Middle Asia, Eastern Europe, North Korea, North Africa, North-West Asia  
- Region 6: Mainland China  
- ALL: All regions |
EQUALIZER CONTROL MENU

Adjusting Equalizer Controls
The Equalizer adjustment screen allows the user to easily adjust the audio system to meet the acoustical characteristics of the vehicle depending on vehicle type and cabin dimensions. For example: Proper setting of the audio controls can improve the speakers frequency response.

The Balance/Fade levels and Loudness ON/OFF option of a selected audio/video source (Disc, Radio, USB, AV-IN1, or AV-IN2) is also adjusted through the Equalizer adjustment screen.

Equalizer (EQ)
1. Touch the Equalizer (EQ / ) icon to view and select a desired acoustical preset level (Pop / Techno / Rock / Classic / Jazz / Optimal or User)
   NOTE: The equalizer will automatically change to “USER” when individual audio functions are adjusted.

Figure 18. Equalizer (EQ) Screen
VX3022

Adjusting the Fader and Balance

The user can adjust front/rear fader settings, L/R balance settings, and subwoofer levels here.

1. Enter the EQ setup mode.
2. Touch the [±] icon in the EQ interface menu.

![Figure 19. Fade-Balance Adjustment Screen](image)

Balance - This feature is used to balance the audio output levels between the left and right side of the vehicle. Touch the ▼ or ▲ icons to change the balance control settings -12 (Left) to +12 (Right). The setting can also be changed by touching screen within the grid to move the blue sphere.

Fader - This feature is used to fade the audio output levels between the front and rear of the vehicle. Touch the ▼ or ▲ icons to change the fade control settings -12 (Rear) to +12 (Front). The setting can also be changed by touching screen within the grid to move the blue sphere.

Sub (Subwoofer) - This feature is used to reduce or increase the subwoofer sound level. Touch the slide bar ▼ or ▲ icons to adjust the subwoofer volume from -12 to +12. This setting will vary depending on the input level setting of your subwoofer amplifier.

To exit the balance-fader touch the return icon on the top left corner of the screen.

NOTE:
• The EQ mode will change to ‘User’ automatically when you adjust the frequency value in all modes besides ‘User’.
iPod®/iPhone® CONTROLS

Accessing iPod® Mode

The user can control an iPod®/iPhone® using the touch screen to access albums, songs, etc.

NOTE: For audio connectivity, the iPod®/iPhone® must be connected to the VX3022 using the iPod®/iPhone® adapter cable that came with the iPod/ iPhone device (also available separately). Be sure your iPod®/iPhone® has the latest Apple firmware installed to avoid connectivity issues.

The unit will automatically switch to iPod® mode when an iPod® or iPhone® is plugged into the front panel USB connector. Also the iPod® can be accessed from the Main Menu Screen by touching the iPod® icon (only available when an iPod® or iPhone® is connected to the front panel USB connector).

![Figure 20. Connecting the iPod®/iPhone®](image)

iPod®/iPhone® Main Menu

To access the iPod® mode touch [iPod] on the main menu to enter iPod® menu. Access iPod menu from here. Touch ▲ or ▼ icons to browse menu.

![Figure 21. iPod®/iPhone® Menu](image)

1. Return to main menu / 2. File list Drag up/down to scroll / 3. Show Music file / 4. Show Video files / 5. Show Photo file

Note: Video cannot be viewed using the standard Apple Lightning cable.
**Pausing Playback**
1. Touch the Pause icon [■] on the bottom of the screen to pause play. “PAUSE” appears in the display, and Pause icon[■] will switch to a Play icon[▶].
2. Touch the Play icon [▶] to resume playback.

**Selecting a Track**

*Track-up*
Touch the Forward icon [▶] to move to the beginning of the next track.

*Track-down*
1. Touch the Back icon [◀] once to move back to the beginning of the current track.
2. Touch the Back icon[◀] twice to move back to the beginning of the previous track.

**Fast Forward/Fast Reverse**

*Fast forward*
Touch and hold the Forward icon [▶] to fast forward a track.

*Fast reverse*
Touch and hold the Back icon [◀] to fast reverse a track.

---

**Repeat Play**
This function allows the user to play the track repeatedly by touching the Repeat icon [↻] to select Repeat one or Repeat all.

**Random Play**
This function allows the user to play all tracks recorded in a random order by touching the Random icon [🔀] to perform random play.
BT OPERATION

NOTE: The line-of-sight distance between this unit and your mobile phone must be 8 feet (2.4 meters) or less for sending and receiving voice and data via BT wireless technology.

Please make sure your mobile phone supports BT functions (Headset or Handsfree profiles or both). Adhere to the following guidelines for successful operation.

• Before using BT functions, you must pair your mobile phone to the VX3022 unit (see “Pairing the BT system with Your Mobile Phone and Unit”). To ensure the best reception for pairing and re-connection, please make sure the mobile phone battery is fully charged before you begin.

• Try to perform pairing within a few minutes of the mobile phone being turned on.

• Once the unit has been paired with the mobile phone, the unit’s model number, “VX3022”, will be displayed on the mobile phone.

• To achieve the best performance, always keep the mobile phone within 10 feet (3 meters) of the unit.

• Always keep a clear path between the mobile phone and the unit. Never place a metal object or any other obstacle between the mobile phone and the unit.

• Some mobile phones may have a “Power Saving Mode” option. PLEASE DO NOT use the power saving mode with the VX3022.

• Before accepting or making a call, make sure your mobile phone’s “BT function” is turned on.

• To ensure the best conversation quality/performance, stay within 3 feet (1 meter) of the units microphone when talking.

• To manually disconnect the mobile phone from the unit, touch the “Chain Link” icon on the BT user interface (next to the mobile phone name) and the BT device will be “disconnected”, but still paired.
The user can make or receive phone calls with BT enabled phones through the unit.

**Pairing BT Devices**

To connect your BT phone to the unit, the user needs to pair the phone to the unit. Pairing only needs to be done once per phone. **The user can pair up to seven (7) phones.** Use your mobile phone to begin the BT pairing process.

1. Turn ON the BT function on the device/mobile phone.
2. Search for BT devices using your mobile phone.
3. Select the BT device ID “VX3022” in the pairing list.
4. Enter default password “5309”.

**NOTES:**

- The operational range between this unit and a BT device is approximately 5 meters.
- Before you connect a BT device to this unit, familiarize yourself with the BT capabilities of the device.
- Compatibility with all BT devices is not guaranteed.
- Any obstacle between this unit and a BT device can reduce the operational range.
- Keep this unit away from any other electronic device that may cause interference.

![Figure 24. BT Menu](image-url)
Disconnecting a BT Device
To disconnect one device, touch [Disconnect]. After "Disconnect" is pressed, the radio will display a screen listing paired devices. Pressing the Green "Connect" icon will reconnect a previously paired phone to the VX3022. Pressing the "Wastebin" icon next to a device’s name will unpair the phone from the radio.

NOTES.
• The device will be disconnected when the device is moved beyond the operational range.
• If you want to reconnect the device to the unit, place it within operational range.
• If you do not want to reconnect the device to the unit automatically, touch [Options], then set [Auto connect] to [OFF]. For details, see the “Adjust BT Settings” section.

Making a Call
1. Select BT function in the home menu.
2. Press "Option". Go to > "Phone Synch". Press "Synch" to import the mobile phone contacts. If you have many contacts, this may take up to 3-4 minutes initially. **Up to 1000 contacts can be imported.**
3. Search for phone number from the following list:
   [Phone Book]
   [Call Log]
   [Missed calls]
   [Received calls]
   [Dialed calls]

   Or touch the number pad directly, then touch [ ] to dial.
Receiving a Call
By default, all incoming calls are received automatically.
1. If there is an incoming call, the screen will display “Incoming call...”.
2. Touch the screen to select [hang up] or [Answer].
   Speak into the BT microphone.

Tip
You can select to receive calls manually by setting
[Auto Answer] to [OFF]

Adjust BT Settings
1. In BT menu, touch [Options]. The option menu is displayed.
2. Touch on the selected option to change the setting.
   - [BT]: To turn the “BT” function ON or OFF.
   - [Auto connect]: To turn the “Auto Connect” function ON or OFF.
   - [Auto answer]: To turn the “Auto Answer” function ON or OFF.
   - [Pairing code]: To set the paring code.
   - [Phone synch]: To synchronize phone book, touch [OK] on the sub-menu

Phonebook synch may take several minutes to load on initial setup.

NOTE:
• You can also adjust BT settings in the “Settings” menu.
PTT (Push to Talk) Function
The VX3022 has a PTT button to allow you to access Siri or Google Voice through the head unit when connected via BT. You mobile phone must support Siri or Google Voice in order for this feature to be supported on the head unit. 

NOTE: Samsung "S" Voice and other third-party apps may not be supported.

BT Music Function
BT provides an Advanced Audio Distribution Profile (A2DP) profile for streaming music from a mobile phone or a portable multimedia player (PMP), sometimes referred to as a MP3 player.

NOTE: Please quit A2DP mode before attempting to make a phone call, as unexpected results may occur depending on your mobile phone model.

AVRCP is short for Audio/Video Remote Control Profile. Mobile phones supporting this function can control the playback of a BT audio player.

The unit can control a BT audio player via Advanced Audio Distribution Profile (A2DP) or Audio/Video Remote Control Profile (AVRCP). BT audio players (or BT adapters) compatible with these profiles can be connected to this unit.

While listening to music from any source, the user can make a phone call by pressing the number keys on the mobile phone. The unit will stop playing music and the TFT screen will display “Calling”, after the call received, the voice will be transferred to the unit. When the call ends, the screen will display music playing menu.

If there is an incoming phone call, the music will stop, and the screen will display “Incoming”. When the call ends, the screen will display music playing menu.
VX3022

AV-In 1 / AV-In 2

AV-In 1
AV-In 1 is used for playback of audio/video from an external device connected to the unit through a 3.5mm connector located on the front panel.

AV-In 2
AV-In 2 is used for playback of audio/video from an external device connected through RCA connectors located on the back of the unit.

You can connect an external audio/video device to the unit.
1. Connect the external device with an appropriate AV cable.
2. Touch the upper left corner to display the main menu.

NOTE: Audio/Video devices must be connected to this unit using an audio/video adapter cable that is available separately.
NOTE: Video will only play when the vehicle parking brake is engaged. The parking brake wire must be connected for this feature to operate.

Figure 30. Connecting External Devices
SWC Ready
The built-in SWC interface is compatible with PAC steering wheel control modules. The PAC SWI-RC is recommended.

A third-party SWC adapter must be used in order for the VX3022 to be compatible with any steering wheel controls.

Notes:
Not all OE steering wheel functions may be supported by the VX3022. PTT - Will activate Siri / Google Voice if mobile phone supports the feature. Not compatible with all phones/vehicles.

The following controls are available for most vehicles:

<table>
<thead>
<tr>
<th>1. Volume Up (+)</th>
<th>4. Preset (+)</th>
<th>7. Seek / Track +</th>
<th>10. BT Send</th>
</tr>
</thead>
</table>

PAC SWI-RC Installation Hints
1. Set "Radio Select Switch". Set the SWI-RC to position 7 - "Pioneer/Other/Sony".
2. Programming - Use the Pioneer/Sony/Other radio function mapping order for Jensen branded head 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.

---

### SWI-RC (5VDC Reference)

<table>
<thead>
<tr>
<th>Function Mapping</th>
<th>Center Pin Voltage (Function Select)</th>
<th>Tip Pin Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume +</td>
<td>H 5.0v</td>
<td>2.89</td>
</tr>
<tr>
<td>Volume -</td>
<td>H 5.0v</td>
<td>3.40</td>
</tr>
<tr>
<td>Mute</td>
<td>H 5.0v</td>
<td>1.37</td>
</tr>
<tr>
<td>Preset +</td>
<td>L 0.0v</td>
<td>2.15</td>
</tr>
<tr>
<td>Preset -</td>
<td>L 0.0v</td>
<td>2.56</td>
</tr>
<tr>
<td>Source</td>
<td>H 5.0v</td>
<td>0.79</td>
</tr>
<tr>
<td>Seek + / Track +</td>
<td>H 5.0v</td>
<td>2.15</td>
</tr>
<tr>
<td>Seek - / Track -</td>
<td>H 5.0v</td>
<td>2.56</td>
</tr>
<tr>
<td>Band</td>
<td>H 5.0v</td>
<td>3.94</td>
</tr>
<tr>
<td>BT Answer Call</td>
<td>L 0.0v</td>
<td>1.37</td>
</tr>
<tr>
<td>BT End Call</td>
<td>L 0.0v</td>
<td>1.79</td>
</tr>
<tr>
<td>PTT / Voice Activation</td>
<td>L 0.0v</td>
<td>3.94</td>
</tr>
</tbody>
</table>
VX3022

REAR CAMERA OPERATION

This unit is “Camera Ready.” Before accessing any camera features, you must install a rear video camera (Sold separately).

When the rear camera is installed, a rear view image of what is behind the vehicle will appear (On the VX3022 TFT) when the vehicle is placed in reverse gear. When shifting out of reverse gear, the TFT will display the previous source.
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Corrective action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unit cannot power on</td>
<td>Unit fuse blown.</td>
<td>Install new fuse with correct rating.</td>
</tr>
<tr>
<td></td>
<td>Car battery fuse blown.</td>
<td>Install new fuse with correct rating.</td>
</tr>
<tr>
<td></td>
<td>Illegal operation</td>
<td>Reset the unit.</td>
</tr>
<tr>
<td>Remote control does not work</td>
<td>Battery depleted.</td>
<td>Change the battery.</td>
</tr>
<tr>
<td></td>
<td>Battery installed incorrectly.</td>
<td>Install the battery correctly.</td>
</tr>
<tr>
<td>No/low audio output</td>
<td>Improper audio output connection.</td>
<td>Check wiring and correct.</td>
</tr>
<tr>
<td></td>
<td>Volume set too low.</td>
<td>Increase volume level.</td>
</tr>
<tr>
<td></td>
<td>Speakers damaged.</td>
<td>Replace speakers.</td>
</tr>
<tr>
<td></td>
<td>Heavily biased volume balance.</td>
<td>Adjust the channel balance to center position.</td>
</tr>
<tr>
<td></td>
<td>Speaker wiring is in contact with metal part of car.</td>
<td>Insulate all speaker wiring connections.</td>
</tr>
<tr>
<td>Poor sound quality or distortion</td>
<td>Pirate disc is in use.</td>
<td>Use original disc.</td>
</tr>
<tr>
<td></td>
<td>Speaker power rating does not match unit.</td>
<td>Replace speakers.</td>
</tr>
<tr>
<td></td>
<td>Wrong connections.</td>
<td>Check wiring and correct.</td>
</tr>
<tr>
<td></td>
<td>Speaker is shorted.</td>
<td>Check wiring and correct.</td>
</tr>
<tr>
<td>Unit resets itself when engine is off</td>
<td>Incorrect connection between ACC and BATT.</td>
<td>Check wiring and correct.</td>
</tr>
<tr>
<td><strong>TFT monitor</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Warning information is shown at all times</td>
<td>Parking brake wiring is not correct.</td>
<td>Check wiring and correct.</td>
</tr>
<tr>
<td>Flashing image or interference appears on screen</td>
<td>Pirate disc is in use.</td>
<td>Use original disc.</td>
</tr>
<tr>
<td></td>
<td>Video cable damaged.</td>
<td>Replace cables.</td>
</tr>
<tr>
<td></td>
<td>Improper video signal connections.</td>
<td>Check wiring and correct.</td>
</tr>
</tbody>
</table>
### Troubleshooting (Continued)

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Corrective action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Disc playback</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cannot insert disc</td>
<td>A disc is inside the unit already.</td>
<td>Eject current disc and insert new one.</td>
</tr>
<tr>
<td>Disc does not play back</td>
<td>Disc is warped or scratched.</td>
<td>Use disc in good condition.</td>
</tr>
<tr>
<td>Disc is dirty or wet.</td>
<td>Clean disc with soft cloth.</td>
<td></td>
</tr>
<tr>
<td>Incompatible disc is used.</td>
<td>Use compatible disc.</td>
<td></td>
</tr>
<tr>
<td>Disc is inserted upside down.</td>
<td>Insert disc with label side up.</td>
<td></td>
</tr>
<tr>
<td>Disc region code is not compatible with unit.</td>
<td>Use disc with proper region code.</td>
<td></td>
</tr>
<tr>
<td>PBC cannot be used during VCD playback</td>
<td>PBC is not available on the disc.</td>
<td>Use disc with PBC available.</td>
</tr>
<tr>
<td>Repeat or search function is invalid during VCD playback</td>
<td>PBC is on.</td>
<td>Turn PBC off.</td>
</tr>
</tbody>
</table>

### Error messages

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Corrective action</th>
</tr>
</thead>
<tbody>
<tr>
<td>No disc</td>
<td>Disc is dirty.</td>
<td>Clean disc with soft cloth.</td>
</tr>
<tr>
<td>Disc is upside down.</td>
<td>Insert disc with label side up.</td>
<td></td>
</tr>
<tr>
<td>No disc inside.</td>
<td>Insert disc.</td>
<td></td>
</tr>
<tr>
<td>Bad disc</td>
<td>Disc is dirty.</td>
<td>Clean disc with soft cloth.</td>
</tr>
<tr>
<td>Disc is upside down.</td>
<td>Insert disc with label side up.</td>
<td></td>
</tr>
<tr>
<td>Unknown disc</td>
<td>Disc format is not compatible with this unit.</td>
<td>Use disc with compatible format.</td>
</tr>
<tr>
<td>Region Error</td>
<td>DVD region code is not compatible with this unit.</td>
<td>Use disc with compatible region code.</td>
</tr>
</tbody>
</table>
SPECIFICATIONS

DVD/CD Player
Compatible Disc Media: DVD ± R / RW (Single and Dual Layer) and CD-R / RW
Compatible Media Formats: CD-DA, MP3, WMA, VCD, SVCD, Xvid, AVI, MPEG 1/2
Signal to Noise Ratio: >95dBA
Dynamic Range: >95dB
Frequency Response: 20Hz to 20 kHz, -3dB
Channel Separation: > 60dB @ 1 kHz
D/A Converter: High performance Multi-Bit Sigma-Delta Modulator

Video
Format: NTSC, PAL (auto-detection)
Output: 1Vp-p (75-ohm)
Input: 1Vp-p (75-ohm)

FM Tuner
Tuning Range: 87.5MHz - 107.9MHz
Mono Sensitivity (-30dB): 9dBf
Quieting Sensitivity (-50dB): 15dBf
Alternate Channel Selectivity: 70dB
Signal to Noise Ratio @ 1 kHz: 58dB
Image Rejection: 80dB
Stereo Separation @ 1 kHz: >30dB
Frequency Response: 30Hz - 15 kHz, -3dB

AM Tuner
Tuning Range: 530 kHz - 1720 kHz
Sensitivity (-20dB): 15uV
Signal to Noise Ratio @ 1 kHz: 50dB
Image Rejection: 60dB
Frequency Response: 50Hz - 2 kHz, -3dB

TFT Monitor
Screen Size: 6.2“ (Measured diagonally), 16:9 Widescreen
Screen Type: TFT LCD
Resolution: 800h x 480v x RGB WVGA
VX3022

General
Auxiliary (Audio) Input Impedance: 10k-Ohm
Power Supply: 11 to 16VDC, negative ground
Power Antenna / Amp Remote (Blue): 500mA max (Current limited protection)
Operating Temperature: 0C ~ 65C / 32F~ 149F
Fuse: 15-Amp, ATO type
Chassis Dimensions: 7” x 7” x 4” (178mm x 178mm x 100mm)

CEA Power Ratings

Power Output: 13 Watts RMS x 4 channels into 4-Ohms @ < 1% THD+N
Signal to Noise Ratio: 70dBA below reference (Reference: 1 Watt, 4-Ohms)
Frequency Response: 20 Hz - 20 kHz, -3dB. (Aux Input used as reference input)
Reference Supply Voltage: 14.4VDC

*Specifications subject to change without notice.
Care and Maintenance

1. Use only a clean silicone cloth and neutral detergent to clean the front panel or monitor. A rough cloth and non-neutral detergent (such as alcohol) may result in scratching or discoloration.
2. Do not get water or cleaning fluids on the unit.
3. If the temperature inside the player gets too hot, a protective circuit automatically stops play of the disc. If this occurs, allow the unit to cool before operating the player again.
4. Never insert anything other than a 12 cm (5”) compact disc into the player as the mechanism can be damaged by foreign objects.
5. Do not attempt to use a 8 cm (3”) CD-Single disc in this unit, either with or without an adapter, as damage to the player and/or disc may occur. Such damage is not covered by the Warranty on this product.
6. The CD player may not operate properly in extreme hot or cold. If such conditions occur, allow the interior of the vehicle to reach a normal temperature before using player.
7. When the vehicle warms up during cold weather or under damp conditions, condensation may appear on the LCD panel. Should this occur, the screen will not operate properly until the moisture has evaporated.
8. We suggest you use a cleaning disc in this unit more frequently than in the unit in your home due to the environmental conditions of the vehicle.
VX3022 Common Replacement Parts

<table>
<thead>
<tr>
<th>Part Description</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire Harness (Pwr/Spk/Line Out/ BT Mic / SWC Adapter)</td>
<td>30314000</td>
</tr>
<tr>
<td>Trim Ring</td>
<td>30413950</td>
</tr>
<tr>
<td>Remote Control</td>
<td>30714230</td>
</tr>
<tr>
<td>Hardware Bag</td>
<td>30514000</td>
</tr>
</tbody>
</table>

Operation manuals and other material online at: www.jensenmobile.com