BEFORE USE

IMPORTANT
• To ensure proper use, please read through this manual before using this product. It is especially important that you read and observe Warning and Caution in this manual.
• Please keep the manual in a safe and accessible place for future reference.

⚠ WARNING
• Do not operate any function that takes your attention away from safe driving.
• Do not ingest the battery, Chemical Burn Hazard
The remote control supplied with this product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
Keep new and used batteries away from children.
If the battery compartment does not close securely, stop using the product and keep it away from children.
If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

⚠ Caution
Volume setting:
• Adjust the volume so that you can hear sounds outside the car to prevent accidents.
• Lower the volume before playing digital sources to avoid damaging the speakers by the sudden increase of the output level.

General:
• Avoid using the external device if it might hinder safe driving.
• Make sure all important data has been backed up. We shall bear no responsibility for any loss of recorded data.
• Never put or leave any metallic objects (such as coins or metal tools) inside the unit, to prevent a short circuit.
• If a disc error occurs due to condensation on the laser lens, eject the disc and wait for the moisture to evaporate.

Remote control (RM-RK52):
• Do not leave the remote control in hot places such as on the dashboard.
• The Lithium battery is in danger of explosion if replaced incorrectly. Replace it only with the same or equivalent type.
• The battery pack or batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

How to read this manual
• Operations are explained mainly using buttons on the faceplate of KD-R680S.
• English indications are used for the purpose of explanation. You can select the display language from the menu. (☞ 5)
• [XX] indicates the selected items.
• (☞ XX) indicates references are available on the stated page.
**BASICS**

### Faceplate

- **Volume knob**
- **Loading slot**
- **Display window**

### Remote control (RM-RK52)

- Remote sensor
  - (Do not expose to bright sunlight.)

- Pull out the insulation sheet when using for the first time.

### How to replace the battery

1. **CR2025**

### Attach

1. **KD-R480**

### Detach

1. **Faceplate**

### How to reset

- Your preset adjustments will be erased except stored radio stations.

<table>
<thead>
<tr>
<th>To</th>
<th>On the faceplate</th>
<th>On the remote control</th>
</tr>
</thead>
</table>
| Turn on the power | Press **SOURCE-○**.  
  - Press and hold to turn off the power. | (Not available) |
| Adjust the volume | Turn the volume knob. | Press **VOL +** or **VOL –**.  
  - Press and hold **VOL +** to continuously increase the volume to 15.  
  - Press **K** to mute the sound or pause playback.  
  - Press again to cancel. |
| Select a source | • Press **SOURCE-○** repeatedly.  
  • Press **SOURCE-○**, then turn the volume knob within 2 seconds. | Press **SOURCE** repeatedly.  
  - Press again to cancel. |
| Change the display information | Press **↑-↓** repeatedly. (⇒19) | (Not available) |
GETTING STARTED

1 **Cancel the demonstration**

When you turn on the power (or after you reset the unit), the display shows: “CANCEL DEMO” ➔ “PRESS” ➔ “VOLUME KNOB”

1 Press the volume knob.  
[YES] is selected for the initial setup.
2 Press the volume knob again.  
“DEMO OFF” appears.

2 **Set the clock and date**

1 Press and hold ➔  .
2 Turn the volume knob to select [CLOCK], then press the knob.

To adjust the clock
3 Turn the volume knob to select [CLOCK ADJUST], then press the knob.
4 Turn the volume knob to make the settings, then press the knob.  
   Hour ➔ Minute
5 Turn the volume knob to select [CLOCK FORMAT], then press the knob.
6 Turn the volume knob to select [12H] or [24H], then press the knob.

To set the date
7 Turn the volume knob to select [DATE SET], then press the knob.
8 Turn the volume knob to make the settings, then press the knob.  
   Day ➔ Month ➔ Year
9 Press ➔  to exit.

To return to the previous setting item, press  /  .

3 **Set the basic settings**

1 Press and hold ➔  .
2 Turn the volume knob to select an item (see the following table), then press the knob.
3 Repeat step 2 until the desired item is selected or activated.
4 Press ➔  to exit.

To return to the previous setting item, press  /  .

**Default: XX**

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>KEY BEEP</strong></td>
<td><strong>ON:</strong> Activates the keypress tone; <strong>OFF:</strong> Deactivates.</td>
</tr>
</tbody>
</table>

**SOURCE SELECT**

| **AM SRC*** | **ON:** Enables AM in source selection; **OFF:** Disables. (✈️ 5) |
| **PANDORA SRC*** (For KD-R680S) | **ON:** Enables PANDORA in source selection; **OFF:** Disables. (✈️ 9) |
| **IHEART SRC*** (For KD-R680S) | **ON:** Enables IHEART RADIO in source selection; **OFF:** Disables. (✈️ 10) |
| **BUILT-IN AUX*** | **ON:** Enables AUX in source selection; **OFF:** Disables. (✈️ 14) |

**F/W UPDATE**

| **F/W UP xxxx** | **YES:** Starts upgrading the firmware; **NO:** Cancels (upgrading is not activated). |

* Not displayed when the corresponding source is selected.
GETTING STARTED

**CLOCK**

**TIME SYNC**
ON: The clock time is automatically set using the Clock Time (CT) data in FM Radio Broadcast Data System signal.
OFF: Cancels.

**CLOCK DISPLAY**
ON: The clock time is shown on the display even when the unit is turned off.
OFF: Cancels.

**ENGLISH**
Select the display language for menu and music information if applicable.

By default, **ENGLISH** is selected.

**ESPANOL**

RADIO

“ST” lights up when receiving an FM stereo broadcast with sufficient signal strength.

**Search for a station**

1. Press **SOURCE** repeatedly to select FM or AM.
2. Press **FM** or **AM** (or press **FM** or **AM** on the remote control) to search for a station automatically.
   - (or)
   - Press and hold **FM** or **AM** (or press and hold **FM** or **AM** on the remote control) until “M” flashes, then press repeatedly to search for a station manually.

**Settings in memory**

You can store up to 18 stations for FM and 6 stations for AM.

**Store a station**

While listening to a station....

Press and hold one of the number buttons (1 to 6).
- (or)
1. Press and hold the volume knob until “PRESET MODE” flashes.
2. Turn the volume knob to select a preset number, then press the knob.
   - The preset number flashes and “MEMORY” appears.
RADIO

Select a stored station
Press one of the number buttons (1 to 6).

1 Press \(\text{\textbullet}\).  
2 Turn the volume knob to select a preset number, then press the knob.

Other settings

1 Press and hold \(\text{\textbullet}\).  
2 Turn the volume knob to select an item (see the following table), then press the knob.
3 Repeat step 2 until the desired item is selected/activated or follow the instructions stated on the selected item.
4 Press \(\text{\textbullet}\) to exit.
To return to the previous setting item, press \(\text{\textbullet}\).

Default: XX

TUNER SETTING

Turns on the radio at a specific time regardless of the current source.

1 \textsc{ONCE/DAILY/WEEKLY/OFF}: Select how often the timer will be turned on.
2 \textsc{FM/AM/SIRIUS XM}*: Select the source.
3 \textsc{01 to 18} (for \textsc{FM/SIRIUS XM})/\textsc{01 to 06} (for \textsc{AM}): Select the preset station.
4 Set the activation day*2 and time.
   "\(\text{\textbullet}\)" lights up when complete.

Radio Timer will not activate for the following cases.
• The unit is turned off.
• \textsc{[OFF]} is selected for \textsc{[AM SRC]} in \textsc{[SOURCE SELECT]} after Radio Timer for AM is selected. (\(\Rightarrow\) 4)

SSM
\textsc{SSM 01–06/SSM 07–12/SSM 13–18}: Automatically presets up to 18 stations for \textsc{FM}. "SSM" stops flashing when the first 6 stations are stored.
Select \textsc{SSM 07–12/SSM 13–18} to store the following 12 stations.

IF BAND
\textsc{AUTO}: Increases the tuner selectivity to reduce interference noises from adjacent FM stations. (Stereo effect may be lost.) ; \textsc{WIDE}: Subjects to interference noises from adjacent FM stations, but sound quality will not be degraded and the stereo effect will remain.

MONO SET*3
\textsc{ON}: Improves the FM reception, but the stereo effect will be lost. ; \textsc{OFF}: Cancels.

AREA
\textsc{US}: For North/Central/South America, AM/FM intervals: 10 kHz/200 kHz ; \textsc{SA}: For some South American countries, AM/FM intervals: 10 kHz/50 kHz ; \textsc{EU}: For any other areas, AM/FM intervals: 9 kHz/50 kHz.

PTY SEARCH*3
Select a PTY code (see below).
If there is a station broadcasting a program of the same PTY code as you have selected, that station is tuned in.

PTY code
\textsc{NEWS (information)}, \textsc{SPORTS}, \textsc{TALK}, \textsc{ROCK}, \textsc{CLS ROCK (classic rock)}, \textsc{ADLT HIT (adult hits)}, \textsc{SOFT RCK (soft rock)}, \textsc{TOP 40}, \textsc{COUNTRY}, \textsc{OLDIES}, \textsc{SOFT}, \textsc{NOSTALGA (nostalgia)}, \textsc{JAZZ}, \textsc{CLASSICL (classical)}, \textsc{R \& B (rhythm and blues)}, \textsc{SOFT R&B (soft rhythm and blues)}, \textsc{LANGUAGE}, \textsc{REL MUSC (religious music)}, \textsc{REL TALK (religious talk)}, \textsc{PERSONLTY (personality)}, \textsc{PUBLIC}, \textsc{COLLEGE}, \textsc{HABL ESP (Spanish talk)}, \textsc{MUSC ESP (Spanish music)}, \textsc{HIP HOP}, \textsc{WEATHER}

*1 For KD-R680S: Selectable only when SiriusXM Vehicle Tuner is connected. (\(\Rightarrow\) 11)
*2 Selectable only when \textsc{[ONCE]} or \textsc{[WEEKLY]} is selected in step 1.
*3 Only for \textsc{FM source}.
CD/USB/iPod/ANDROID

Start playback
The source playback changes automatically and the playback starts.

CD
- Eject disc
- Label side

USB
- USB input terminal
- USB 2.0 cable*1 (commercially available)

iPod/iPhone
- Accessory of the iPod/iPhone*1
- Micro USB 2.0 cable*1 (commercially available)

ANDROID*2
- Accessory of the iPod/Android*1
- Micro USB 2.0 cable*1 (commercially available)

Selectable source:
KD-R680S: CD/USB/iPod/ANDROID
KD-R480: CD/USB/ANDROID
• To directly select USB/iPod/ANDROID source, press iPod/USB or USB.

To On the faceplate On the remote control
Reverse/Fast-forward*3 Press and hold ◀ / ▶. Press and hold ◀ / ▶.
Select a track/file Press ◀ / ▶. Press ◀ / ▶.
Select a folder*4 Press 2 ▲ / 1 ▼. Press ▲ / ▼.
Repeat play*5 Press 4 ◀ ◀ repeatedly.
Track Repeat/All Repeat TRACK REPEAT/ALL REPEAT: Audio CD
Track Repeat/Folder Repeat/All Repeat TRACK REPEAT/FOLDER REPEAT/ALL REPEAT: MP3/WMA/WAV/FLAC file
One Repeat/All Repeat/Repeat Off ONE REPEAT/ALL REPEAT/REPEAT OFF: iPod or ANDROID
Random play*5 Press 3 ◀ ◀ repeatedly.
All Random/Random Off ALL RANDOM/RANDOM OFF: Audio CD
Folder Random/All Random/Random Off FOLDER RANDOM/ALL RANDOM/RANDOM OFF: MP3/WMA/WAV/FLAC file
Song Random/All Random/Random Off SONG RANDOM/ALL RANDOM/RANDOM OFF: iPod or ANDROID

*1 Do not leave the cable inside the car when not using.
*2 When connecting an Android device, “Press [VIEW] to install JVC MUSIC PLAY APP” is shown. Follow the instructions to install the application. You can also install the latest version of JVC MUSIC PLAY application on your Android device before connecting.
*3 For ANDROID: Applicable only when [AUTO MODE] is selected. (8)
*4 For CD: Only for MP3/WMA files. This does not work for iPod/ANDROID.
*5 For iPod/ANDROID: Applicable only when [HEAD MODE]/[AUTO MODE] is selected. (8)
## CD/USB/iPod/ANDROID

### Select control mode

While in iPod source, press **5 USB MODE** repeatedly.
- **HEAD MODE**: Control iPod from this unit.
- **IPHONE MODE**: Control iPod using the iPod itself. However, you can still play/pause or file skip from this unit.

While in ANDROID source, press **5 USB MODE** repeatedly.
- **AUTO MODE**: Control Android device from this unit via JVC MUSIC PLAY application installed in the Android device.
- **AUDIO MODE**: Control Android device using the Android device itself via other media player applications installed in the Android device. However, you can still play/pause or file skip from this unit.

### Select music drive

While in USB source, press **5 USB MODE** repeatedly.

Stored songs in the following drive will be played back.
- Selected internal or external memory of a smartphone (Mass Storage Class).
- Selected drive of a multiple drives device.

### Select a file from a folder/list

For iPod/ANDROID, applicable only when [HEAD MODE]/[AUTO MODE] is selected.

1. Press ç/ï.
2. Turn the volume knob to select a folder/list, then press the knob.
3. Turn the volume knob to select a file, then press the knob.

**Quick Search** (applicable only for CD, USB, and ANDROID source)
If you have many files, you can search through them quickly.

**Alphabet search** (applicable only for iPod and ANDROID source)
You can search for a file according to the first character.

**For iPod source**
Press 2 ▲/1 ▼ or turn the volume knob quickly to select the desired character (A to Z, 0 to 9, OTHERS).
- Select "OTHERS" if the first character is other than A to Z, 0 to 9.

**For ANDROID source**

1. Press ç to enter character search.
2. Turn the volume knob to select the desired character.
   - ^A^: Upper case letters (A to Z)
   - _A_: Lower case letters (a to z)
   - -0-: Numbers (0 to 9)
   - -OTHERS-: Character other than A to Z, 0 to 9
3. Press the volume knob to start searching.

- To return to the previous setting item, press ç/ï.
- To cancel, press and hold ç/ï.
**Pandora® (for KD-R680S)**

**Preparation:**
Install the latest version of the Pandora application on your device (iPhone/iPod touch), then create an account and log in to Pandora.
- Select [ON] for [PANDORA SRC] in [SOURCE SELECT].

**Start listening**

1. Open the Pandora application on your device.
2. Connect your device to the USB input terminal.

   - The source changes to PANDORA and broadcast starts.

**To** | **On the faceplate** | **On the remote control**
---|---|---
Playback/pause | Press the volume knob. | Press X. |
Skip a track | Press ▶. | Press ▶. |
Thumbs up or thumbs down*2 | Press 2 ▲/1 ▼. | Press ▲/▼. |

---

*1 Do not leave the cable inside the car when not using.
*2 If thumbs down is selected, the current track is skipped.

---

**Create and store a new station**

1. Press Arial / ▼.
2. Turn the volume knob to select [NEW STATION], then press the knob.
3. Turn the volume knob to select [FROM TRACK] or [FROM ARTIST], then press the knob.
4. Press and hold one of the number buttons (3, 4, 5 or 6) to store.

To select a stored station: Press one of the number buttons (3, 4, 5 or 6).

**Search for a registered station**

1. Press Arial / ▼.
2. Turn the volume knob to select an item, then press the knob.
   - [BY DATE] : According to the registered date
   - [A-Z] : By alphabetical order
3. Turn the volume knob to select the desired station, then press the knob.

To cancel, press and hold Arial / ▼.

**Bookmark current song information**

Press and hold the volume knob.
“BOOKMARKED” appears and the information is stored to your device.
- The bookmark is available on your Pandora account but not on this unit.
iHeartRadio® (for KD-R680S)

Preparation:
Install the latest version of iHeart Link for JVC application on your device (iPhone/iPod touch), then create an account and log in to iHeartRadio.
• Select [ON] for [IHEART SRC] in [SOURCE SELECT]. (► 4)

Start listening

1 Open the iHeart Link application on your device.
2 Connect your device to the USB input terminal.
3 Press SOURCE-○ repeatedly to select IHEARTRADIO. Broadcast starts automatically.

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<thead>
<tr>
<th>To</th>
<th>On the faceplate</th>
<th>On the remote control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Playback/pause</td>
<td>Press the volume knob.</td>
<td>Press ☯.</td>
</tr>
<tr>
<td>Skip a track for custom station</td>
<td>Press ▶.</td>
<td>Press ▶.</td>
</tr>
<tr>
<td>Thumbs up or thumbs down for custom station*2</td>
<td>Press 2 ▲/ 1 ▼.</td>
<td>Press ▲/▼.</td>
</tr>
<tr>
<td>Create a new/custom station</td>
<td>Press and hold the volume knob.</td>
<td>(Not available)</td>
</tr>
<tr>
<td>Add to favorite stations for live station</td>
<td>Press 3.</td>
<td>(Not available)</td>
</tr>
<tr>
<td>Scan for live station</td>
<td>Press 4.</td>
<td>(Not available)</td>
</tr>
</tbody>
</table>

*1 Do not leave the cable inside the car when not using.
*2 If thumbs down is selected, the current track is skipped.

Search for a station

1 Press ☯/▲.
2 Turn the volume knob to select a category, then press the knob.
3 Turn the volume knob to select the desired station, then press the knob.
When a city list appears, you can skip cities in alphabetical order.
To cancel, press and hold ☯/▲.

Skip cities by alphabetical order

While a city list appears during search...
1 Turn the volume knob quickly to enter character search.
   You can search through the list quickly according to the first character (A to Z).
2 Turn the volume knob or press 2 ▲/ 1 ▼ to select the character to be searched for.
3 Press the volume knob to start searching.
To cancel, press and hold ☯/▲.
**SiriusXM® Radio (for KD-R680S)**

Only SiriusXM® brings you more of what you love to listen to, all in one place. Get over 140 channels, including commercial-free music plus the best sports, news, talk, comedy and entertainment. Welcome to the world of satellite radio. A SiriusXM Vehicle Tuner and Subscription are required.

**Preparation:**

1. Connect the optional SiriusXM Vehicle Tuner (commercially available).

2. Check your Radio ID for activation.
   The SiriusXM Radio ID is required for activation and can be found by tuning to Channel 0 as well as on the label found on the SiriusXM Vehicle tuner and its packaging. The Radio ID does not include the letters I, O, S or F.

3. Start listening
   - Press **SOURCE** repeatedly to select SIRIUS XM.
   - Press **Q**. “Q” lights up.
   - Turn the volume knob to select a CATEGORY, then press the knob.
   - Turn the volume knob to select a category from the list, then press the knob. If “ALL CHANNELS” is selected, all the available channels will be shown.
   - Turn the volume knob to select a channel, then press the knob.
   - (or) Press **Q** to search for a channel manually.
     - Press **Q** changes the channel rapidly.
   - If a locked channel or a mature channel is selected, a pass code input screen appears. Enter the pass code to receive the channel. (13)

4. Settings in memory
   You can store up to 18 channels.
   - Store a channel
     While listening to a channel....
     - Press and hold one of the number buttons (1 to 6).
       - (or) Press and hold the volume knob until “PRESET MODE” flashes.
       - Turn the volume knob to select a preset number, then press the knob.
         The preset number flashes and “MEMORY” appears.
   - Select a stored channel
     - Press one of the number buttons (1 to 6).
       - (or) Press **Q**.
       - Turn the volume knob to select PRESET, then press the knob.
       - Turn the volume knob to select a preset number, then press the knob.
         (or)
       - Press **Q** on the remote control.

---

**Antenna**
Expansion port on the rear panel
SiriusXM Vehicle Tuner

---

**Preparation:**

1. Connect the optional SiriusXM Vehicle Tuner (commercially available).
2. Check your Radio ID for activation.
   The SiriusXM Radio ID is required for activation and can be found by tuning to Channel 0 as well as on the label found on the SiriusXM Vehicle tuner and its packaging. The Radio ID does not include the letters I, O, S or F.

**Antenna**
Expansion port on the rear panel
SiriusXM Vehicle Tuner
**SiriusXM® Radio (for KD-R680S)**

**SiriusXM Replay™**

While listening to a channel....

1. **Press the volume knob.**
   “☞” lights up and the unit memorizes this paused position.

2. **Press the volume knob to start Replay.**
   Replay starts from the paused position in step 1.

During Replay...

<table>
<thead>
<tr>
<th>To</th>
<th>On the faceplate</th>
<th>On the remote control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Playback/pause</td>
<td>Press the volume knob.</td>
<td>Press ☞.</td>
</tr>
<tr>
<td>Skip the current song</td>
<td>Press ◄ ◄ / ►►.</td>
<td>Press ◄ ◄ / ►►.</td>
</tr>
<tr>
<td>Go to Live and exit Replay</td>
<td>Press and hold the volume knob.</td>
<td>Press and hold ☞.</td>
</tr>
</tbody>
</table>

1. Press ◄ ◄ / ►►.
2. Turn the volume knob to select LIVE, then press the knob.

**SmartFavorites and TuneStart™**

User preset channels are initially assigned as the SmartFavorites channels. SmartFavorite channel is available with SXV200 or later SiriusXM tuner models. SiriusXM Vehicle Tuner automatically buffers the broadcast audio content of the SmartFavorites channels in the background.

**Using SXV200:** This unit can assign a maximum of 6 SmartFavorites channels. If you try to assign the 7th channel, an error beep tone will be heard. Initially, preset channels 1 to 6 are assigned as SmartFavorites.

Using SiriusXM tuner models later than SXV200: This unit can assign a maximum of 18 SmartFavorites channels. Initially, all preset channels are assigned as SmartFavorites.

- “☞” appears at the last character of the channel name for the SmartFavorites channels.

When you select a SmartFavorites channel, you can rewind and replay up to 30 minutes of any of the missed news, talk, sports or music content.

- Playback starts from the beginning of the song if [TUNE START] is set to [ON] (13) for most music channels stored as a SmartFavorite.

To cancel SmartFavorites channels

1. Press ◄ ◄ / ►►.
2. Turn the volume knob to select PRESET, then press the knob.
3. Turn the volume knob to select a preset number, then press and hold the knob.

“☞” is removed from the last character.

Reassign SmartFavorites channels

Repeat steps 1 to 3 of cancelling SmartFavorites channels. “☞” appears at the last character.
SiriusXM® Radio (for KD-R680S)

**TuneScan™**

You can get a short preview of the songs that you have missed on each of your SmartFavorite music channels or current tuned music channel.

1. Press \( \Delta \) / \( \nabla \).
2. Turn the volume knob to select TUNE SCAN, then press the knob.

Scanning starts for the first 6 seconds of the recorded music contents.

- To listen to the current song, press the volume knob to stop scanning.
- The unit continues playing the current song.
- To select the previous/next song, press \( \mathbf{\boldsymbol { 	ext{Previous} / 	ext{Next} } } \).
- To cancel scanning, press and hold the volume knob. Playback returns to the channel before you enter TuneScan.

**SiriusXM settings**

1. Press and hold \( \mathbf{\boldsymbol { \Delta } } \) \( \mathbf{\boldsymbol { \nabla } } \).
2. Turn the volume knob to select an item (see the following table), then press the knob.
3. Repeat step 2 until the desired item is selected/activated or follow the instructions stated on the selected item.
4. Press \( \mathbf{\boldsymbol { \Delta } } \) \( \mathbf{\boldsymbol { \nabla } } \) to exit.

To return to the previous setting item, press \( \mathbf{\boldsymbol { \Delta } } \) / \( \mathbf{\boldsymbol { \nabla } } \).

**CODE SET**

1. Press the volume knob to enter [NEW CODE].
2. Turn the volume knob to select a number.
3. Press \( \mathbf{\boldsymbol { \Delta } } \) / \( \mathbf{\boldsymbol { \nabla } } \) to move to the entry position.
4. Repeat steps 2 and 3 to enter a new 4-digit pass code.
5. Press the volume knob to confirm.
6. Repeat steps 2 to 5 to reconfirm the pass code.

- Make a note of the new pass code to enter channel lock settings for next time.

**LOCK SETTING**

- MATURE CH: Selects the SiriusXM-defined lock setting.
- USER DEFINED: Selects the individual channels the user wants to lock.
- OFF: Cancels.

**CHANNEL EDIT**

1. Turn the volume knob to select a category, then press the knob.
2. Turn the volume knob to select a channel you want to lock, then press the knob.
   "L" appears in front of the channel number.
3. Press and hold \( \mathbf{\boldsymbol { \Delta } } \) / \( \mathbf{\boldsymbol { \nabla } } \) to exit.

**CHANNEL CLEAR**

1. YES: Clears all the locked channels.
2. NO: Cancels.

**TUNE START**

1. ON: All qualified music channels in the SmartFavorites will start playback from the beginning of the song.
2. OFF: Cancels.

**SIGNAL LEVEL**

Shows the strength (NO SIGNAL / WEAK / GOOD / STRONG) of the current received signal.

**BUFFER USAGE**

Shows the memory usage (0% to 100%) for Replay buffer.

**SXM RESET**

1. YES: Resets stored channel and lock setting to default.
2. NO: Cancels.

*1 Displayed only when [USER DEFINED] is selected.
*2 Available only if the connected SiriusXM Vehicle Tuner is SXV200 or later that supports SmartFavorites.
**AUX**

**Use a portable audio player**

1. Connect a portable audio player (commercially available).
   - 3.5 mm (1/8") stereo mini plug with “L” shaped connector (commercially available)

   ![PortAudioPlayer](image)

3. Press [SOURCE-] repeatedly to select AUX.
4. Turn on the portable audio player and start playback.

**Use a 3-core plug head stereo mini plug for optimum audio output.**

---

**AUDIO SETTINGS**

**Select a preset equalizer**


(⇒)

Press [EQ-BASS], then turn the volume knob within 5 seconds.

Preset equalizer:
- FLAT (default) / DRVN 3 / DRVN 2 / DRVN 1 / HARD ROCK / HIP HOP / JAZZ / POP / R&B / TALK
- USER / VOCAL BOOST / BASS BOOST / CLASSICAL / DANCE

**Store your own sound settings**

1. Press and hold [EQ-BASS] to enter EASY EQ setting.
2. Turn the volume knob to select an item, then press the knob.
   - Refer to [EASY EQ] (⇒ 15) for setting and the result is stored to [USER].
   - To return to the previous setting item, press [↓].
   - To exit, press [EQ-BASS].

**Other settings**

1. Press and hold [⇒].
2. Turn the volume knob to select an item (⇒ 15), then press the knob.
3. Repeat step 2 until the desired item is selected/activated or follow the instructions stated on the selected item.
4. Press [⇒] to exit.

To return to the previous setting item, press [↓].
# AUDIO SETTINGS

## EQ SETTING

<table>
<thead>
<tr>
<th>Default: XX</th>
</tr>
</thead>
</table>

### PRESET EQ
- Select a preset equalizer suitable for the music genre.
  - [USER] to use the settings made in [EASY EQ] or [PRO EQ].
  - [EASY EQ] or [PRO EQ].

**FLAT/DRVN 3/DRVN 2/DRVN 1/HARD ROCK/HIP HOP/JAZZ/POP/R&B/TALK/USER/VOCAAL BOOST/BASS BOOST/CLASSICAL/DANCE**

### EASY EQ
- Adjust your own sound settings.
  - The settings stored to [USER].
  - The settings may affect the current settings of [PRO EQ].
  - [SUB.W] or [SUB.W/SUB.W]

- [SUB.W SP] : 00 to +06 (Default: 03)
- [SUB.W] : –08 to +08 00
- [BASS] : LVL–06 to LVL+06 LVL 00
- [MID] : LVL–06 to LVL+06 LVL 00
- [TRE] : LVL–06 to LVL+06 LVL 00

### PRO EQ
- Adjust your own sound settings.
  - The settings stored to [USER].
  - The settings may affect the current settings of [EASY EQ].

- **1** BASS/MIDDLE/TREBLE: Select a sound tone.
- **2** Adjust the sound elements of the selected sound tone.
  - **BASS**
    - Frequency: 60HZ/80HZ/100HZ/200HZ
    - Level: LVL–06 to LVL+06
    - Q: Q1.0/Q1.25/Q1.5/Q2.0
    - (Default: 80HZ/LVL 00/Q1.0)
  - **MIDDLE**
    - Frequency: 0.5KHZ/1.0KHZ/1.5KHZ/2.5KHZ
    - Level: LVL–06 to LVL+06
    - Q: Q0.75/Q1.0/Q1.25
    - (Default: 1.0KHZ/LVL 00/Q1.25)
  - **TREBLE**
    - Frequency: 10.0KHZ/12.5KHZ/15.0KHZ/17.5KHZ
    - Level: LVL–06 to LVL+06
    - Q: Q FIX
    - (Default: 10.0KHZ/LVL 00/Q FIX)

## AUDIO CONTROL

<table>
<thead>
<tr>
<th></th>
<th>LEVEL +01 to LEVEL +05 (LEVEL +01): Selects your preferred bass boost level.; OFF: Cancels.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BASS BOOST</strong></td>
<td></td>
</tr>
<tr>
<td><strong>LOUDNESS</strong></td>
<td>LEVEL 01 /LEVEL 02: Boosts low or high frequencies to produce a well-balanced sound at low volume.; OFF: Cancels.</td>
</tr>
<tr>
<td><strong>SUB.W LEVEL</strong></td>
<td>SPK-OUT*2: SUB.W 00 to SUB.W +06 (SUB.W +03): Adjusts the output level of the subwoofer connected via speaker lead. ( 25)</td>
</tr>
<tr>
<td><strong>SUB.W PHASE</strong></td>
<td>REVERSE (180°)/NORMAL (0°): Selects the phase of the subwoofer output to be in line with the speaker output for optimum performance.</td>
</tr>
<tr>
<td><strong>SUBWOOFER SET</strong></td>
<td>ON: Turns on the subwoofer output.; OFF: Cancels.</td>
</tr>
<tr>
<td><strong>SUBWOOFER LPF</strong></td>
<td>FRQ THROUGH: All signals are sent to the subwoofer.; FRQ 55HZ/FRQ 85HZ/FRQ 120HZ: Audio signals with frequencies lower than 55 Hz/85 Hz/120 Hz are sent to the subwoofer.</td>
</tr>
<tr>
<td><strong>SUB.W PHASE</strong></td>
<td>REVERSE (180°)/NORMAL (0°): Selects the phase of the subwoofer output to be in line with the speaker output for optimum performance.</td>
</tr>
<tr>
<td><strong>FADER</strong></td>
<td>POSITION R06 to POSITION F06 (POSITION 00): Adjusts the front and rear speaker output balance.</td>
</tr>
<tr>
<td><strong>BALANCE</strong></td>
<td>POSITION L06 to POSITION R06 (POSITION 00): Adjusts the left and right speaker output balance.</td>
</tr>
</tbody>
</table>

*1 Displayed only when [SUBWOOFER SET] is set to [ON].
*2 Displayed only when [SPK/PRE OUT] is set to [SUB.W/SUB.W]. ( 16)
*3 Displayed only when [SPK/PRE OUT] is set to [REAR/SW] or [SUB.W/SUB.W]. ( 16)
*4 Selectable only if a setting other than [FRQ THROUGH] is selected for [SUBWOOFER LPF].
*5 This adjustment will not affect the subwoofer output.
### AUDIO SETTINGS

**VOLUME ADJUST**  
LEVEL –15 to LEVEL +06 (LEVEL 00): Preset the initial volume level of each source (compared to the FM volume level). Before adjustment, select the source you want to adjust. (“VOL ADJ FIX” appears if FM is selected.)

**AMP GAIN**  
LOW POWER: Limits the maximum volume level to 25. (Select if the maximum power of each speaker is less than 50 W to prevent damaging the speakers.)  
HIGH POWER: The maximum volume level is 35.

**D.T.EXPANDER**  
(Digital Track Expander)  
ON: Creates realistic sound by compensating the high-frequency components and restoring the rise-time of the waveform that are lost in audio data compression.;  
OFF: Cancels.

**SPK/PRE OUT**  
Select the appropriate setting to get the desired output. (► Speaker output settings)

---

### Speaker output settings

Select the output setting for the speakers [SPK/PRE OUT], base on the speaker connection method.

#### Connection via lineout terminals

For connections through an external amplifier. (► 25)  
(For KD-R680S)

<table>
<thead>
<tr>
<th>Setting on [SPK/PRE OUT]</th>
<th>Audio signal through lineout terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRONT</td>
<td>REAR/SW</td>
</tr>
<tr>
<td>REAR/REAR</td>
<td>Rear speakers output</td>
</tr>
<tr>
<td>REAR/SUB.W (default)</td>
<td>Subwoofer output</td>
</tr>
<tr>
<td>SUB.W/SUB.W</td>
<td>Subwoofer output</td>
</tr>
</tbody>
</table>

#### Connection via speaker leads

For connections without using an external amplifier. However, with this settings you can also enjoy the subwoofer output. (► 25)

<table>
<thead>
<tr>
<th>Setting on [SPK/PRE OUT]</th>
<th>Audio signal through rear speaker lead</th>
</tr>
</thead>
<tbody>
<tr>
<td>L (left)</td>
<td>R (right)</td>
</tr>
<tr>
<td>REAR/REAR</td>
<td>Rear speakers output</td>
</tr>
<tr>
<td>REAR/SUB.W (default)</td>
<td>Rear speakers output</td>
</tr>
<tr>
<td>SUB.W/SUB.W</td>
<td>Subwoofer output (Mute)</td>
</tr>
</tbody>
</table>

If [SUB.W/SUB.W] is selected:  
– [FRQ 120HZ] is selected in [SUBWOOFER LPF] and [FRQ THROUGH] is not available.  
– [POSITION R01] is selected in [FADER] and selectable range is [POSITION R06] to [POSITION 00].

---

### AMP GAIN

LOW POWER: Limits the maximum volume level to 25. (Select if the maximum power of each speaker is less than 50 W to prevent damaging the speakers.)  
HIGH POWER: The maximum volume level is 35.

### D.T.EXPANDER

(Digital Track Expander)  
ON: Creates realistic sound by compensating the high-frequency components and restoring the rise-time of the waveform that are lost in audio data compression.;  
OFF: Cancels.

### SPK/PRE OUT

Select the appropriate setting to get the desired output. (► Speaker output settings)
DISPLAY SETTINGS

1. Press and hold \[ \] • .
2. Turn the volume knob to select an item (see the following table), then press the knob.
3. Repeat step 2 until the desired item is selected/activated or follow the instructions stated on the selected item.
4. Press \[ \] • to exit.

To return to the previous setting item, press \[ \] • / \[ \] • .

DISPLAY

DIMMER

- Set the illuminations.
- OFF: Dimmer is turned off. Brightness changes to [DAY] setting.
- ON: Dimmer is turned on. Brightness changes to [NIGHT] setting.

DIMMER TIME: Set the dimmer on and off time.

1. Turn the volume knob to adjust the [ON] time, then press the knob.
2. Turn the volume knob to adjust the [OFF] time, then press the knob.

(Default: [ON]: PM6:00 ; [OFF]: AM6:00)

DIMMER AUTO: Dimmer turns on and off automatically when you turn off or on the car's headlight.

BRIGHTNESS

- Set the button and display brightness for day and night separately.
- 1: DAY/NIGHT: Select day or night.
- 2: Select a zone.
- 3: LEVEL 00 to LEVEL 31: Set the brightness level.

(Default: [DAY]: LEVEL 31 ; [NIGHT]: LEVEL 15)

TEXT SCROLL: Scrolls the display information once. ; SCROLL AUTO: Repeats scrolling at 5-second intervals. ; SCROLL OFF: Cancels.

COLOR (for KD-R680S)

PRESET

Select a color for buttons illumination.

- COLOR 01 to COLOR 49 [COLOR 08]
- USER: The color you have created for [DAY COLOR] or [NIGHT COLOR] is shown.
- COLOR FLOW01 to COLOR FLOW03: Color changes at different speeds.

DAY COLOR

Store your own day and night colors for buttons illumination.

Default color: [RED 00], [GREEN 05], [BLUE 31]

1: RED/GREEN/BLUE: Select a primary color.
2: 00 to 31: Select the level.

NIGHT COLOR

Repeat steps 1 and 2 for all the primary colors.

- [NIGHT COLOR] or [DAY COLOR] is changed by turning on or off your car's headlight.

MENU COLOR

ON: The color of buttons illumination changes to white color when in menu mode or when selecting a music file from a folder/list.; OFF: Cancels.

*1 The illumination control wire connection is required. (25)
*2 Some characters or symbols will not be shown correctly (or will be blanked).
**REFERENCES**

**Maintenance**

*Cleaning the unit*
Wipe off dirt on the faceplate with a dry silicone or soft cloth.

*Cleaning the connector*
Detach the faceplate and clean the connector gently with a cotton swab, being careful not to damage the connector.

**Handling discs:**
- Do not touch the recording surface of the disc.
- Do not stick tape etc. on the disc, or use a disc with tape stuck on it.
- Do not use any accessories for the disc.
- Clean from the center of the disc and move outward.
- Clean the disc with a dry silicone or soft cloth. Do not use any solvents.
- When removing discs from this unit, pull them out horizontally.
- Remove burrs from the center hole and disc edge before inserting a disc.

**More information**
For:
- Latest firmware updates and latest compatible item list
- Any other latest information

**Playable files**
- Playable audio file:
  - For disc: MP3 (.mp3), WMA (.wma)
  - For USB mass storage class device: MP3 (.mp3), WMA (.wma), WAV (.wav), FLAC (.flac)
- Playable disc media: CD-R/CD-RW/CD-ROM
- Playable disc file format: ISO 9660 Level 1/2, Joliet, Long file name.
- Playable USB device file system: FAT12, FAT16, FAT32

Even when audio files comply with the standards listed above, playback may be impossible depending on the types or conditions of media or device.

**Unplayable discs**
- Discs that are not round.
- Discs with coloring on the recording surface or discs that are dirty.
- Recordable/ReWritable discs that have not been finalized.
- 8 cm CD. Attempting to insert using an adapter may cause malfunction.

**About USB devices**
- You cannot connect a USB device via a USB hub.
- Connecting a cable whose total length is longer than 5 m may result in abnormal playback.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 1 A.

**About iPod/iPhone**
- Made for
  - iPod touch (2nd, 3rd, 4th, 5th, and 6th generation)
  - iPod classic
  - iPod nano (3rd, 4th, 5th, 6th, and 7th generation)
  - iPhone 3G, 3GS, 4, 4S, 5, 5S, 5C, 6, 6 Plus, 6S, 6S Plus, SE
- It is not possible to browse video files on the “Videos” menu in [HEAD MODE].
- The song order displayed on the selection menu of this unit may differ from that of the iPod/ iPhone.
- Depending on the version of the operating system of the iPod/iPhone, some functions may not operate on this unit.

**General**
- This unit can only play the following CDs:
  - This unit can play back multi-session discs; however, unclosed sessions will be skipped during playback.
  - **DualDisc playback**: The Non-DVD side of a “DualDisc” does not comply with the “Compact Disc Digital Audio” standard. Therefore, the use of Non-DVD side of a DualDisc on this product cannot be recommended.
- For detailed information and notes about the playable audio files, visit
REFERENCES

About Android device
• This unit supports Android OS 4.1 and above.
• Some Android devices (with OS 4.1 and above) may not fully support Android Open Accessory (AOA) 2.0.
• If the Android device supports both mass storage class device and AOA 2.0, this unit always playback via AOA 2.0 as priority.

About Pandora
• Pandora is only available in certain countries.
• Because Pandora is a third-party service, the specifications are subject to change without prior notice. Accordingly, compatibility may be impaired, or some or all of the services may become unavailable.
• Some functions of Pandora cannot be operated from this unit.

About iHeartRadio
• iHeartRadio® is a third-party service, therefore the specifications are subject to change without prior notice. Accordingly, compatibility may be impaired or some or all of the services may become unavailable.
• Some iHeartRadio® functionality cannot be operated from this unit.

Change the display information
Each time you press ‡ , the display information changes.
• If the information is unavailable or not recorded, “NO TEXT”, “NO NAME”, or other information (e.g. station name) appears.

<table>
<thead>
<tr>
<th>Source name</th>
<th>Display information</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM or AM</td>
<td>Frequency (Date/Clock)</td>
</tr>
<tr>
<td></td>
<td><em>(For FM Radio Broadcast Data System stations only)</em></td>
</tr>
<tr>
<td></td>
<td>Station name (PS)/Program type (PTY) (Date/Clock) ➤ Radio text (Date/Clock) ➤ Radio text+ (Date/Clock) ➤ Song title (Artist) ➤ Song title (Date/Clock) ➤ Frequency (Date/Clock) ➤ (back to the beginning)</td>
</tr>
<tr>
<td>CD or USB</td>
<td><em>(For CD-DA)</em></td>
</tr>
<tr>
<td></td>
<td>Track title (Artist) ➤ Track title (Disc name) ➤ Track title (Date/Clock) ➤ Playing time (Date/Clock) ➤ (back to the beginning)</td>
</tr>
<tr>
<td></td>
<td><em>(For MP3/WMA/WAV/FLAC files)</em></td>
</tr>
<tr>
<td></td>
<td>Song title (Artist) ➤ Song title (Album name) ➤ Song title (Date/Clock) ➤ File name (Folder name) ➤ File name (Date/Clock) ➤ Playing time (Date/Clock) ➤ (back to the beginning)</td>
</tr>
<tr>
<td>iPod or ANDROID</td>
<td>When [HEAD MODE] /[AUTO MODE] is selected (⇒ 8):</td>
</tr>
<tr>
<td></td>
<td>Song title (Artist) ➤ Song title (Album name) ➤ Song title (Date/Clock) ➤ Playing time (Date/Clock) ➤ (back to the beginning)</td>
</tr>
<tr>
<td>SIRIUS XM</td>
<td>Station name (Date/Clock) ➤ Shared/Radio (Date/Clock) ➤ Song title (Artist) ➤ Song title (Album name) ➤ Song title (Date/Clock) ➤ Playing time (Date/Clock) ➤ (back to the beginning)</td>
</tr>
<tr>
<td>AUX</td>
<td>AUX (Date/Clock)</td>
</tr>
</tbody>
</table>
# TROUBLESHOOTING

## Symptom | Remedy
--- | ---
**General**<br>Sound cannot be heard. | • Adjust the volume to the optimum level.<br>• Check the cords and connections.<br>**“MISWIRING CHECK WIRING THEN PWR ON” appears.**<br>Turn the power off, then check to be sure the terminals of the speaker wires are insulated properly. Turn the power on again.<br>**“PROTECTING SEND SERVICE” appears.**<br>Send the unit to the nearest service center.<br>Source cannot be selected. | Check the [SOURCE SELECT] setting. (4)

## Symptom | Remedy
--- | ---
Radio<br>• Radio reception is poor.<br>• Static noise while listening to the radio. | Connect the antenna firmly.<br>**Disc cannot be ejected.**<br>Press and hold ▲ to forcibly eject the disc. Be careful not to drop the disc when it is ejected.<br>**“IN DISC” appears.**<br>Make sure nothing is blocking the loading slot when you eject the disc.<br>**“PLEASE EJECT” appears.**<br>Press ▲, then insert the disc correctly.<br>Playback order is not as intended.<br>The playback order is determined by the file name (USB) or the order in which files were recorded (disc).<br>Elapsed playing time is not correct.<br>This depends on the recording process earlier.<br>**“NOT SUPPORT” appears and track skips.**<br>Check whether the track is a playable format. (18)<br>**“READING” keeps flashing.**<br>Do not use too many hierarchical levels and folders.<br>Reload the disc or reattach the USB device.<br>**“CANNOT PLAY” flashes and/or connected device cannot be detected.**<br>Check whether the connected device is compatible with this unit and ensure the files are in supported formats. (18)<br>Reattach the device.

## Symptom | Remedy
--- | ---
CD/USB/iPod<br>The iPod/iPhone does not turn on or does not work. | • Check the connection between this unit and iPod/iPhone.<br>• Detach and reset the iPod/iPhone using hard reset.<br>Correct characters are not displayed. | • This unit can only display uppercase letters, numbers, and a limited number of symbols.<br>• Depending on the display language you have selected (5), some characters may not be displayed correctly.<br>• Sound cannot be heard during playback.<br>• Sound output only from the Android device. | • Reconnect the Android device.<br>• If in [AUDIO MODE], launch any media player application on the Android device and start playback.<br>• If in [AUDIO MODE], relaunch the current media player application or use another media player application.<br>• Restart the Android device.<br>• If this does not solve the problem, the connected Android device is unable to route the audio signal to unit. (19)<br>Cannot playback at [AUTO MODE]. | • Make sure JVC MUSIC PLAY APP is installed on the Android device. (7)<br>• Reconnect the Android device and select the appropriate control mode. (8)<br>• If this does not solve the problem, the connected Android device does not support [AUTO MODE]. (19)<br>“NO DEVICE” or “READING” keeps flashing. | • Switch off the developer options on the Android device.<br>• Reconnect the Android device.<br>• If this does not solve the problem, the connected Android device does not support [AUTO MODE]. (19)<br>Playback is intermittent or sound skips. | Turn off the power saving mode on the Android device.<br>**“CANNOT PLAY”** | • Make sure Android device contains playable audio files.<br>• Reconnect the Android device.<br>• Restart the Android device.
## TROUBLESHOOTING

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>“ADD ERROR”</td>
<td>New station creation is unsuccessful.</td>
</tr>
<tr>
<td>“CHK DEVICE”</td>
<td>Check the Pandora application on your device.</td>
</tr>
<tr>
<td>“NO SKIPS”</td>
<td>The skip limit has been reached.</td>
</tr>
<tr>
<td>“NO STATIONS”</td>
<td>No stations are found.</td>
</tr>
<tr>
<td>“STATION LMT”</td>
<td>The number of registered stations has reached its limit. Retry after deleting unnecessary stations from your device.</td>
</tr>
<tr>
<td>“UPGRADE APP”</td>
<td>Make sure you have installed the latest version of the Pandora application on your device.</td>
</tr>
<tr>
<td>“CONNECT ERR”</td>
<td>Communication is unstable.</td>
</tr>
<tr>
<td>“RATING ERR”</td>
<td>Registration of thumbs up/thumbs down has failed due to insufficient network connectivity.</td>
</tr>
<tr>
<td>“THUMBS N/A”</td>
<td>Registration of thumbs up/thumbs down is not allowed.</td>
</tr>
<tr>
<td>“LICENSE ERR”</td>
<td>You try to access from a country which Pandora is not deliverable.</td>
</tr>
<tr>
<td>Pandora</td>
<td></td>
</tr>
<tr>
<td>Station cannot be selected.</td>
<td>If “Explicit Content” in [Account Settings] is checked in the web version of iHeartRADIO, custom stations become unavailable.</td>
</tr>
<tr>
<td>“CREATE ERR”</td>
<td>Custom station name creation is unsuccessful.</td>
</tr>
<tr>
<td>“SAVE ERROR”</td>
<td>Addition to the favorite category failed.</td>
</tr>
<tr>
<td>“DISCONNECTED”</td>
<td>Check the connection to the device.</td>
</tr>
<tr>
<td>“NO SKIPS”</td>
<td>The skip limit has been reached. Retry later.</td>
</tr>
<tr>
<td>“NO STATIONS”</td>
<td>No stations are found.</td>
</tr>
<tr>
<td>iHeartRadio</td>
<td></td>
</tr>
<tr>
<td>“NOT CONNCTD”</td>
<td>Link to the application is impossible.</td>
</tr>
<tr>
<td>“UPDATE APP”</td>
<td>Make sure you have installed the latest version of the iHeart Link for JVC application on your device.</td>
</tr>
<tr>
<td>“PLS LOGIN”</td>
<td>You haven’t log in. Log in again.</td>
</tr>
<tr>
<td>“STATION NOT AVAILABLE”</td>
<td>Broadcast from the station is over.</td>
</tr>
<tr>
<td>“STATION NOT SELECTED”</td>
<td>No station is selected.</td>
</tr>
<tr>
<td>“STREAM ERR”</td>
<td>Broadcast data is interrupted.</td>
</tr>
<tr>
<td>“THUMBS ERR”</td>
<td>Registration of thumbs up/thumbs down has failed.</td>
</tr>
<tr>
<td>“TIMED OUT”</td>
<td>The request has resulted in time-out.</td>
</tr>
<tr>
<td>“CH LOCKED LOCK CODE?”</td>
<td>The selected channel is locked. Enter the correct pass code to unlock. (书面 13)</td>
</tr>
<tr>
<td>“CHAN UNSUB”</td>
<td>The selected channel is unsubscribed.</td>
</tr>
<tr>
<td>SiriusXM® Radio</td>
<td></td>
</tr>
<tr>
<td>“CH UNAVAIL”</td>
<td>The selected channel is unavailable.</td>
</tr>
<tr>
<td>“CHECK ANTENNA”</td>
<td>Check the antenna and its connection are in good condition.</td>
</tr>
<tr>
<td>“CHECK TUNER”</td>
<td>Make sure the SiriusXM Vehicle Tuner is connected to the unit.</td>
</tr>
<tr>
<td>“NO SIGNAL”</td>
<td>Make sure the antenna is mounted outside the vehicle.</td>
</tr>
<tr>
<td>“SUBSCRIPTION UPDATED – PRESS ENTER TO CONTINUE.”</td>
<td>Your subscription is updated. Press the volume knob to continue.</td>
</tr>
</tbody>
</table>
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tuner</strong></td>
<td></td>
</tr>
<tr>
<td>FM Frequency Range</td>
<td>87.9 MHz — 107.9 MHz (200 kHz step)</td>
</tr>
<tr>
<td></td>
<td>87.5 MHz — 108.0 MHz (50 kHz step)</td>
</tr>
<tr>
<td>Usable Sensitivity (S/N = 26 dB)</td>
<td>8.2 dBf (0.71 μV/75 Ω)</td>
</tr>
<tr>
<td>Quieting Sensitivity (DIN S/N = 46 dB)</td>
<td>17.2 dBf (2.0 μV/75 Ω)</td>
</tr>
<tr>
<td>Frequency Response (±3 dB)</td>
<td>30 Hz — 15 kHz</td>
</tr>
<tr>
<td>Signal-to-Noise Ratio (MONO)</td>
<td>64 dB</td>
</tr>
<tr>
<td>Stereo Separation (1 kHz)</td>
<td>40 dB</td>
</tr>
<tr>
<td>AM Frequency Range</td>
<td>530 kHz — 1,700 kHz (10 kHz step)</td>
</tr>
<tr>
<td></td>
<td>531 kHz — 1,611 kHz (9 kHz step)</td>
</tr>
<tr>
<td>Usable Sensitivity (S/N = 20 dB)</td>
<td>29 dBμ (28.2 μV)</td>
</tr>
<tr>
<td><strong>CD player</strong></td>
<td></td>
</tr>
<tr>
<td>Laser Diode</td>
<td>GaAIAs</td>
</tr>
<tr>
<td>Digital Filter (D/A)</td>
<td>8 times over sampling</td>
</tr>
<tr>
<td>Spindle Speed</td>
<td>500 rpm — 200 rpm (CLV)</td>
</tr>
<tr>
<td>Wow &amp; Flutter</td>
<td>Below measurable limit</td>
</tr>
<tr>
<td>Frequency Response (±1 dB)</td>
<td>20 Hz — 20 kHz</td>
</tr>
<tr>
<td>Total Harmonic Distortion (1 kHz)</td>
<td>0.01 %</td>
</tr>
<tr>
<td>Signal-to-Noise Ratio (1 kHz)</td>
<td>105 dB</td>
</tr>
<tr>
<td>Dynamic Range</td>
<td>90 dB</td>
</tr>
<tr>
<td>Channel Separation</td>
<td>85 dB</td>
</tr>
<tr>
<td>MP3 Decode</td>
<td>Compliant with MPEG-1/2 Audio Layer-3</td>
</tr>
<tr>
<td>WMA Decode</td>
<td>Compliant with Windows Media Audio</td>
</tr>
</tbody>
</table>

### TROUBLESHOOTING

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>“CODE ERROR”</td>
<td>Make sure you have entered the correct pass code. ([13])</td>
</tr>
<tr>
<td>“NO CONTENT”</td>
<td>There is insufficient content to start TuneScan.</td>
</tr>
<tr>
<td>“SCAN CANCEL”</td>
<td>TuneScan has been aborted.</td>
</tr>
</tbody>
</table>

If you have any troubles, try the following:

1. Check TROUBLESHOOTING
2. Reset the unit ([3])
3. Contact (USA only)
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>USB</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>USB Standard</td>
<td>USB 1.1, USB 2.0 (Full speed)</td>
<td></td>
</tr>
<tr>
<td>Compatible Devices</td>
<td>Mass storage class</td>
<td></td>
</tr>
<tr>
<td>File System</td>
<td>FAT12/16/32</td>
<td></td>
</tr>
<tr>
<td>Maximum Supply Current</td>
<td>DC 5 V — 1 A</td>
<td></td>
</tr>
<tr>
<td>MP3 Decode</td>
<td>Compliant with MPEG-1/2 Audio Layer-3</td>
<td></td>
</tr>
<tr>
<td>WMA Decode</td>
<td>Compliant with Windows Media Audio</td>
<td></td>
</tr>
<tr>
<td>WAV Decode</td>
<td>Linear-PCM</td>
<td></td>
</tr>
<tr>
<td>FLAC Decode</td>
<td>FLAC files</td>
<td></td>
</tr>
</tbody>
</table>

| Auxiliary            |          |          |
| Frequency Response (±3 dB) | 20 Hz — 20 kHz |          |
| Input Maximum Voltage | 1 000 mV |          |
| Input Impedance      | 30 kΩ    |          |

| Audio                |          |          |
| Maximum Output Power | 50 W × 4 or 50 W × 2 + 50 W × 1 (Subwoofer = 4 Ω) |          |
| Full Bandwidth Power | 22 W × 4 |          |
| Speaker Impedance    | 4 Ω — 8 Ω |          |
| Preout Level/Load (CD/USB) | 2 500 mV/10 kΩ load |          |
| Preout Impedance     | ≤ 600 Ω  |          |

| General              |          |          |
| Operating Voltage    | 14.4 V   |          |
| (10.5 V — 16 V allowable) |          |          |
| Maximum Current Consumption | 10 A |          |
| Operating Temperature Range | −10°C — +60°C |          |
| Installation Size (W × H × D) | 182 mm × 53 mm × 159 mm (7-3/16” × 2-1/8” × 6-1/4”) |          |
| Net Weight (includes Trimplate, Mounting Sleeve) | 1.2 kg (2.7 lbs) |          |

### INSTALLATION/CONNECTION

**⚠ WARNING**
- The unit can only be used with a 12 V DC power supply, negative ground.
- Disconnect the battery’s negative terminal before wiring and mounting.
- Do not connect Battery wire (yellow) and Ignition wire (red) to the car chassis or Ground wire (black) to prevent a short circuit.
- Insulate unconnected wires with vinyl tape to prevent a short circuit.
- Be sure to ground this unit to the car’s chassis again after installation.

**⚠ CAUTION**
- For safety’s sake, leave wiring and mounting to professionals. Consult the car audio dealer.
- Install this unit in the console of your vehicle. Do not touch the metal parts of this unit during and shortly after use of the unit. Metal parts such as the heat sink and enclosure become hot.
- Do not connect the wires of speakers to the car chassis or Ground wire (black), or connect them in parallel.
- Connect speakers with a maximum power of more than 50 W. If the maximum power of the speakers is lower than 50 W, change the [AMP GAIN] setting to avoid damaging the speakers. (16)
- Mount the unit at an angle of less than 30º.
- If your vehicle wiring harness does not have the ignition terminal, connect Ignition wire (red) to the terminal on the vehicle’s fuse box which provides 12 V DC power supply and is turned on and off by the ignition key.
- Keep all cables away from heat dissipate metal parts.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- If the fuse blows, first make sure the wires are not touching car’s chassis, then replace the old fuse with one that has the same rating.

**Basic procedure**
1. Remove the key from the ignition switch, then disconnect the terminal of the car battery.
2. Connect the wires properly.
   - See Wiring connection. (25)
3. Install the unit to your car.
   - See Installing the unit (in-dash mounting). (24)
4. Connect the terminal of the car battery.
5. Reset the unit. (3)
INSTALLATION/CONNECTION

Installing the unit (in-dash mounting)

1. Remove the mounting sleeve and trim plate from the unit.
2. Align the holes in the unit (on both sides) with the vehicle mounting bracket and secure the unit with screws (commercially available).

Part list for installation

(A) Faceplate
(B) Trim plate
(C) Mounting sleeve
(D) Wiring harness
(E) Extraction key

How to remove the unit

1. Insert the extraction key into the front of the unit to release it.
2. Gently pull the unit out of the dashboard.

When installing without the mounting sleeve

1. Remove the mounting sleeve and trim plate from the unit.
2. Align the holes in the unit (on both sides) with the vehicle mounting bracket and secure the unit with screws (commercially available).

Use only the specified screws. Using wrong screws might damage the unit.
INSTALLATION/CONNECTION

Wiring connection

IMPORTANT
We recommend installing the unit with a commercially available custom wiring harness specific for your car and leave this job to professionals for your safety. Consult your car audio dealer.

Vehicle dashboard

Factory wiring harness (vehicle)

Output terminals

Antenna terminal

Fuse (10 A)

KD-R680S: Expansion port (12 V → 500 mA)
To the optional SiriusXM Vehicle Tuner (commercially available) (11)

JVC Amplifier

KD-R480

Remote wire (not supplied)

Black: Ground

Yellow: Battery 12 V

White: Front speaker (left)

Gray: Front speaker (right)

Gray/black

White: Front speaker (left)

White/black

Purple: Rear speaker (right)

Purple/black

Green: Rear speaker (left)*2

Green/black*2

Make this connection if your vehicle factory wiring harness does not have “12 V ignition switch” wire.

*1 Firmly connect the ground wire of the amplifier to the car’s chassis to avoid damaging the unit.
*2 KD-R480: You can also connect a subwoofer speaker directly using this lead without an external subwoofer amplifier. For setting, 16.

IMPORTANT

We recommend installing the unit with a commercially available custom wiring harness specific for your car and leave this job to professionals for your safety. Consult your car audio dealer.

Recommended connection

Custom wiring harness (separately purchased)

Brown (not used)

Blue: To power antenna

Blue/white: To amplifier

Orange/white: Illumination

Red: Ignition 12 V

Gray: Front speaker (right)

Gray/black

White: Front speaker (left)

White/black

Purple: Rear speaker (right)

Purple/black

Green: Rear speaker (left)*2

Green/black*2

Join the same color wires together.

Light blue/yellow

Remote wire

Signal cord

(not supplied)

Ignition switch

Separate red wire

Car fuse block

To the steering wheel remote control adapter

To the amplifier

To power antenna

*2 KD-R480: You can also connect a subwoofer speaker directly using this lead without an external subwoofer amplifier. For setting, 16.