ATTACH SALES RECEIPT HERE

ACD2800
LOCATION OF CONTROLS

1. REL (Release) Button
2. Disc Insertion Slot
3. PWR (Power) Button
4. - Control:
   - Bass -
   - Volume -
5. Temporay Display Changes
6. + Control:
   + Bass +
   + Volume +
7. Fade to Rear
8. Balance Mode
9. Balanced Let
10. FM/AM Mixer Button
11. AM/FM Pause Button
12. Source Selection/Exit Button
13. LCD Display Window

Clock Adjustmen
Tuning
Seek and Manual Radio
Clock Minute Adjustment

Do not position too close to the door. To avoid excessive heat, observe the small dot (0.5x1.0) from hardwearing and dark side.

Attaching the Face
Do not touch with naked face. Do not expose the face to direct sunlight. Clean face with glass cleaner, sponges, cloth or soft dust cloths. Do not use abrasive cleaners. Do not press hard against the face when attaching it to the receiver. Do not be subject to high pressure.

Detachable Face
Do not pull straight out from the chassis. Be sure to drop the face when detaching it from the chassis. Do not swing the face. To prevent breaking the face, before detaching the face be sure to press the PWR Button first. Then press the REL (Release) Button and detach the face by gently pulling it out as illustrated.

Detaching & Attaching the Face: The face of this unit can be detached and taken with you to prevent theft.
Electrical Connections and Installation

**General Recommendations**
- Read all instructions before beginning work.
- Use only 15A, 120V AC receptacle outlet.
- Contact a qualified electrician if you are not comfortable doing this yourself.
- If no power cord is included, you can purchase one at your local hardware store.

**Electrical Connection Instructions**

1. Disconnect the speakers from the audio source.
2. Disconnect the speaker leads from the unit.
3. Turn off the power supply to your audio equipment.
4. Connect the speaker leads to the appropriate terminals on the speaker.
5. Connect the speaker leads to the corresponding terminals on the amplifier.
6. Tighten the screws securely to ensure a good connection.
7. Replace the equipment in its original position.
8. Turn on the power supply to your audio equipment.
9. Listen to the speakers to ensure everything is working correctly.

**Troubleshooting**
- If you are experiencing problems, please check the troubleshooting section in the user manual.
- If you are still experiencing issues, contact the manufacturer for assistance.

**System Requirements**
- Power supply: 120V AC, 15A
- Amplifier capacity: 200W
- Speaker impedance: 8 Ohms

**Speaker Connections**
- Connect the speaker leads to the input terminals of the amplifier.
- Secure the cable connections with electrical tape to prevent them from coming loose.

**Safety Precautions**
- Always disconnect the power cord before troubleshooting.
- Avoid touching the metal parts of the speakers while they are connected to the power supply.
- Keep the speakers away from water and other sources of moisture.

**Warranty Information**
- Your speakers come with a one-year limited warranty.
- Contact your retailer for warranty information or to request service.

**Technical Specifications**
- Frequency Response: 20Hz - 20kHz
- Sensitivity: 92 dB
- Impedance: 8 Ohms
- Power Handling: 200W

**Customer Service**
- For any questions or concerns, please contact our customer service department.

**Conclusion**
- Congratulations on your new speaker system.
- Enjoy hours of pure audio entertainment.

**Technical Support**
- Website: www.Panasonic.com
- Phone: 1-800-211-PANA (1-800-211-7262)
- Email: support@Panasonic.com

**Support Hours**
- Monday - Friday: 8 AM - 8 PM (EST)
- Saturday - Sunday: 10 AM - 6 PM (EST)
INSTRUCTIONS — GENERAL OPERATION

Turning Unit On
Vehicle ignition must be on. To turn unit on, press PWR Button (3) or insert a disc.

Turning Unit Off
Press the PWR Button (3) to turn the unit off.

Volume
Press the + and - Buttons (6 & 4) to quickly increase or decrease the volume to the desired level. The volume level is indicated in the Display Window (13). To make a fine adjustment to the volume level, press the other volume button before the volume level disappears from the display. You can then gradually adjust the volume in either direction, making precise adjustment easy.

Adjustable Turn-On Volume
First adjust the volume to the (maximum) volume level desired when the unit is turned on. Press and hold the PWR Button (3) for more than two seconds. The unit turns off and the turn-on volume level is memorized. When the unit is turned on, the volume will be at the memorized level, even if the unit was turned off while the volume was at a higher level. However, if the volume is turned off when the volume level is lower than the stored Turn-On volume level, the volume will be at the lower level when the unit is turned back on.

Loudness Button
Press the - and + Buttons (4 & 6) to increase sound level of low frequencies, especially when listening at low volume levels. (The increase is centered at 100 Hz, where the increase is 14 dB.) The "LOUD" indicator appears in the display. To cancel, press these buttons again.

Setting the Clock
Turn the unit on. Press the CLK Button (5) for four seconds until the clock starts blinking. (The display will change after two seconds. Ignore this and continue to hold for more seconds.) Once the clock starts blinking, Press the < (7) to set the hour, and press the > Button (8) to set the minutes. (To change the minute indicator to the nearest hour (100) you can press the FM1 Button. Press the CLK Button again to activate the clock.

Changing the Information Displayed
You can temporarily change the information shown in your unit’s display. You can also select which information has “display priority” and is shown in the display except for moments when adjustments are made.

• To change the display priority, press the CLK Button (5) for two seconds. The display priority changes. In the radio mode, the display priority choices are clock and radio frequency. In the CD mode, the display priority choices are clock, track number, and elapsed track time.

• To change the display temporarily, press and release the CLK Button (5) one or two times to access the desired information.

Ignition-Off Clock Recall
You can check the time when the vehicle ignition is off by simply pressing the CLK Button. The time stays displayed for five seconds.

Bass and Treble
Press CLK Button (5) as needed to select the Bass once more to reach Treble mode. The level is indicated in the Display Window (13). Press the + Button (6) or - Button (4) to increase or decrease the level.

Balance
Press CLK Button (5) as needed to select the Balance mode. The balance is indicated in the Display Window (13). Press the + Button (6) to increase the right speaker output or press the - Button (4) to increase the left speaker output to the desired level.

Fader
Press CLK Button (5) as many times as needed to select the Fader mode. The level of output for front and back speakers is indicated in the Display Window (13). Press the + Button (6) to decrease the front speaker output. Press the - Button (4) to decrease the rear speaker output.

* Five seconds after you complete your adjustments, the unit will automatically return to the volume mode and the display will revert back to the priority display, clock or function. You can also press and release CLK as needed to return to VOLUME, which appears after FADER in the CLK Button cycle.

CLK Button Summary
• Pressing and releasing the CLK Button accesses these modes in this succession:
  • Temporary Display Change(s), Bass, Treble, Balance, Fader, Volume.
  • Pressing the CLK Button for two seconds changes the display priority.
  • Pressing the CLK Button for four seconds accesses the time adjustment mode.
  • While in any CLK mode, if no button is pressed for four seconds, the unit returns to the volume adjustment mode and priority display.
RADIO OPERATION
Press the desired band. To access FM, press either FM1 or FM2. The indicator for the active band (FM1, FM2 or AM) appears in the Display, along with the radio frequency being received.

Automatic Stereo/Mono Reception Adjustment
When an FM stereo program with a signal strength of at least 50 dBf is tuned in, the stereo indicator (“CD”) appears in the Display Window. If the FM stereo program is weak and noisy, the unit automatically blends the signals, eliminating the noise and gradually converts to the monaural or “mono” mode. The stereo symbol will disappear from the Display.

Automatic Seek Tuning
Select the desired band. Press and release the < or > button to seek the next receivable station. To stop seeking and return to the previously tuned frequency, press the other of the < or > buttons.

Manual Tuning
Select the desired band. To begin manual tuning, press and hold the < or > button for 2 seconds. Five seconds after you complete your adjustments, the Tuning Control reverts to Seek Tuning.

Travel Store
This feature allows you to automatically store 12 receivable FM and 6 receivable AM stations, which is especially handy when you travel to a different reception area.
Select the desired band. Then press the < and > buttons for two seconds. The band indicator begins to blink. Beginning with the last station received, the unit automatically scans the band for the six stations with the strongest signals. Once completed, the unit switches to preset 1 on that band. If no stations are receivable, the unit returns to the previously tuned frequency.

Selecting Preset Stations
Select the desired band. Momentarily press and release the band as needed until the desired preset frequency appears. The preset number will appear for 1 second, then the unit returns to the priority display.

Manually Storing Individual Preset Stations
1. Select the desired band.
2. Select the preset frequency that you wish to replace.
3. Press and hold the band button until the preset number begins to blink.
4. Use the < and > buttons to seek or to manually tune the desired frequency.
5. Once the desired frequency is tuned, press the band button for 2 seconds at which time the preset number blinks in the display to confirm the storage. If you wish to replace the next preset frequency, continue holding the band button until the next preset number begins to blink, and repeat steps 1-5.

COMPACT DISC OPERATION
Playing A Disc
Check Display (13) to make sure that "DISC IN" indicator is not lit. Insert a disc into the Disc Slot (2) with the label surface facing up. The disc is automatically loaded into the unit and play starts at the beginning of the first selection. The track number and "DISC IN" indicator will appear in the Display.
When a CD is already in the unit, simply press the SRC Button (12) to switch from radio to CD playback.

Ejecting A Disc
To eject a disc, press and hold the SRC Button (12). The disc comes out automatically. If this button is pressed again or if the disc is not removed within about 5 seconds, the disc is automatically reloaded. Press the SRC Button (12) to restart disc playback.

Track Up/Down
Press the < Button (7) or > Button (8) to locate the desired track. Track number appears in the display.

Cue and Review
Press and hold the < Button (7) or > Button (8) to rapidly advance forward or backward to the desired position of the track during playback.

Repeat Play
Press the RPT (Repeat Play) Button (10) to repeat the same selection. The “RPT” indicator is displayed in the Display. To cancel, press this button again.

Mix Play
Press the MIX Button (9) to play the tracks in random order. The indicator "MIX" will appear in the Display. To cancel, press this button again.

Pause
Press the Pause Button (11) during playback. Play will stop. Press again to resume play.
<table>
<thead>
<tr>
<th>Error Display</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>E12</td>
<td>Error</td>
<td>Turn unit on and re-insert disc.</td>
</tr>
<tr>
<td>E10</td>
<td>Error</td>
<td>Turn unit on and re-insert disc.</td>
</tr>
<tr>
<td>E08</td>
<td>Dirty or dusted disc.</td>
<td></td>
</tr>
<tr>
<td>E09</td>
<td>Dirty or dusty disc.</td>
<td></td>
</tr>
<tr>
<td>E01</td>
<td>Dirty or dusted disc.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Solution</th>
<th>Troubleshooting Guide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete shutting of six stations.</td>
<td>See &quot;Cleaning the Connectors of the Front Panel&quot;. Remove the front panel and clean the connectors.</td>
</tr>
<tr>
<td>Travel store feature does not work.</td>
<td>See &quot;Cleaning the Connectors of the Front Panel&quot;. Remove the front panel and clean the connectors.</td>
</tr>
<tr>
<td>Use manual tuning.</td>
<td>See &quot;Cleaning the Connectors of the Front Panel&quot;. Remove the front panel and clean the connectors.</td>
</tr>
<tr>
<td>Automatic tuning is not possible.</td>
<td>Set the radio to the nearest position with a station. Adjust the volume with the tuning button.</td>
</tr>
<tr>
<td>Strobe stations are not receivable.</td>
<td>Set the radio to the nearest position with a station. Adjust the volume with the tuning button.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>No sound.</td>
<td>No sound.</td>
</tr>
</tbody>
</table>

General Procedure:
The following check will assist in the correction of most problems which you may encounter with your unit. Before going through the check list below, refer back to the connection and operating procedures.