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Cat. No. 12-2152

OWNER'S MANUAL

Please read before using this equipment.

High-Power In-Dash AM/FM Stereo CD Player

OPTIMUS®

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FEATURES

Your Optimus High-Power In-Dash AM/FM Stereo CD Player has many practical, easy-to-use features, and you can install it in almost any vehicle. The stereo's anti-theft control panel lets you quickly remove it, making the stereo inoperative. The auto travel programming feature lets you store strong local stations into a separate travel memory.

Memory tuning, seek and scan tuning, and FM optimizer circuitry all help make your stereo's operation simple and quick so you can drive safely.

Caution: Use common sense. Do not change your stereo's settings in heavy traffic or during hazardous driving conditions.

CD PLAYER

Audible Search — lets you rapidly play a CD in either direction to locate a desired section of a track.

Shuffle Play — randomly selects and plays tracks from the loaded CD.

Repeat Play — automatically repeats the current track.

Intro Scan — scans and plays the first 10 seconds of each track, so you can find a specific track.

AM/FM STEREO TUNER

Memory Tuning — lets you quickly store and tune up to 18 of your favorite stations (6 AM and 12 FM).

Auto Travel Programming — lets you automatically store the first 6 strong stations in each band (AM and FM) into a separate travel memory so you can quickly find local stations while traveling.

Seek Tuning — searches forward or backward to the next strong station in the selected band. This makes finding a station quick and easy.

Memory Scan Tuning — scans all stations stored in memory, playing for 5 seconds on each.

LO/DX Button — lets you set the stereo to scan only strong local FM stations or both strong and weaker, distant FM stations.

Band Button — lets you easily select AM or FM stations with the push of a button.

Digital Synthesized Circuitry — gives you precise tuning and drift-free reception.

Advanced FM Optimizer Circuitry — automatically adjusts the tuner's stereo separation and high-frequency response to give you the best possible sound, regardless of the signal level.

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GENERAL

Anti-Theft Control Panel — lets you quickly remove and store the stereo control panel in the supplied carry case. This discourages theft because the stereo cannot operate without the control panel.

Five Preset Equalizer Settings — provide you with common sound settings for enhancing rock, jazz, pop, classical, or country and western music. The equalizer settings also enhance any kind of music.

Electronic Bass, Treble, Fader, and Balance Controls — let you adjust high and low sounds and the balance between the left/right and front/rear speakers by pressing a few buttons, so you can tailor the sound to suit your preferences.

Line-Out Jacks — make it easy to connect a booster.

We recommend you record your stereo's serial number here. The number is on the top panel of the stereo.

Serial Number: _____

The CD player in this stereo system is made and tested to meet exacting safety standards. It meets FCC requirements and complies with safety performance standards of the U.S. Department of Health and Human Services.

Warnings:

- This system employs a laser light beam. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.
- The use of controls, adjustments, or procedures other than those specified herein might result in hazardous radiation exposure.

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INSTALLATION

BEFORE YOU BEGIN THE INSTALLATION

Before you install your stereo, read all the instructions in this owner's manual. You should be able to answer all of these questions about your vehicle's electrical and sound systems.

- Which of the stereo's wires is the power wire?
- Which terminal in my vehicle's fuse box is for accessories?
- How do I connect a wire to the fuse box?
- Which stereo wires are line-level outputs and which are speaker outputs?

Also, be aware that installation in your vehicle might require cutting or modifying your vehicle.

Preparing the Mounting Area

Before you mount the stereo, make sure you have all the necessary materials. Then confirm that the stereo fits your vehicle's mounting area.

Notes:

- This autosound stereo system is a DIN-E size unit that requires a $2^1/_4$-inch (57 mm) high by $7^1/_2$-inch (190 mm) wide by $7^1/_4$-inch (186 mm) deep mounting area.
- If the mounting area is too large, you might be able to mount the stereo with an in-dash installation kit, available at your local RadioShack store. Follow the installation kit's instructions to mount the stereo.

Cautions:

- Make sure your vehicle's mounting area is as level as possible. If you cannot mount the stereo exactly level, make sure the stereo will not tilt up more than 30 degrees when it is mounted.
- Be sure to avoid obstructions behind the mounting surface.

Routing Speaker Wires

If you install speakers, avoid routing the speaker wires near moving parts or sharp edges. You can usually route them along the wiring channel beneath the vehicle's door facings by carefully removing the molding that holds the carpet in place. After you route the speaker wires, replace the molding.

Removing the Shipping Screw

The shipping screw helps protect the stereo's CD player from being damaged during shipment.

Before you mount the stereo, use a small Phillips screwdriver to remove the shipping screw from the top of the stereo.

If you do not remove the shipping screw, you cannot remove the supplied sleeve from the stereo and the CD player will not work.

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(illus)

Note: Save the shipping screw in case you ever want to mail or ship the stereo. You can secure it to the back of the stereo with a piece of tape.

MAKING THE CONNECTIONS

The supplied harness with the 14-pin connector includes all the lead wires you need to connect the stereo to ground, power, some optional components, and speakers.

Important: Do not cut these wires. If you cut any wire, you cannot obtain a refund or exchange on this product. RadioShack will provide warranty service if you cut a wire and find the product is defective.

You might need additional wire, depending on your individual auto sound system, to complete the connections. Your local RadioShack store carries a full line of wire and wire management accessories.

Cautions:

- For added safety and to protect your stereo, disconnect the cable from your vehicle battery's negative (–) terminal before you begin.

(illus)

- Be sure your speakers can handle 64 watts of power (16 watts per channel). Each speaker must have an impedance of at least 4 ohms. Your local RadioShack store carries a full line of speakers.
- You must connect the GROUND, +12V TO IGNITION, and +12V TO BATTERY wires first, then make all other connections as described in the following sections before you plug the harness with the 14-pin connector into the stereo. If you do not make connections in the order shown, damage to the stereo is possible if any wire connections are made incorrectly.
- You must connect a separate wire to each speaker terminal as described in the following procedure. Do not use a common wire or chassis ground for any speaker connection.

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Note: The wiring harness has the following labels.

(illus - (Black) Ground
(Red) +12V to Ignition
(Yellow) +12V to Battery
(Blue/White) Amp Remote Turn On 500 mA Max
(White) Front Left Speaker +
(White/Black) Front Left Speaker -
(Gray) Front Right Speaker +
(Gray/Black) Front Right Speaker -
(Green) Rear Left Speaker +
(Green/Black) Rear Left Speaker -
(Violet) Rear Right Speaker +
(Violet/Black) Rear Right Speaker -

Using an Adapter Harness

If you are replacing an existing stereo, or if your vehicle has been factory-wired for autosound components, you might be able to use an adapter harness to connect the power and speakers. RadioShack stores sell adapter harnesses for most vehicles.

Follow the directions that come with the adapter harness to temporarily connect the power and speakers.

Connecting Ground, Power, and Optional Components

Follow these steps to connect the harness with the 14-pin connector to ground, primary and memory backup power, and optional components.

(illus - show (Black) Ground
(Red) Power
(Yellow) Power/Memory
(Blue/White) Optional Equipment

1. Disconnect the cable from your vehicle battery's negative (–) terminal.
2. Connect the black ground wire to a chassis ground, such as a metal screw attached to a metal part of the vehicle's frame. Be sure that the screw is not insulated from the chassis by a plastic part.
3. Connect the red power wire (with in-line fuse holder) to a point in your vehicle's fuse block that has power only when you turn the vehicle's key to either the accessory (ACC) or START position.

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This connection turns on the stereo when you turn on the ignition or turn the key to ACC, and turns off the stereo when you turn off the ignition. This prevents your vehicle's battery from being drained if you leave the stereo on when you turn off the ignition.

4. Connect the yellow power/memory wire (with transformer and in-line fuse holder) to your vehicle battery's positive (+) terminal or to a point in your vehicle's fuse block that provides a continuous source of 12 volts.

   This connection provides power for the stereo's components, and continuous power for the stereo's memory when the ignition is turned off.

5. Connect the blue/white wire to any optional equipment, designed to run from a switched source, that you want the stereo to turn on and off (such as a booster or a power antenna).

   This wire does not provide power to the components. It simply turns them on or off. If you do not use this wire, secure it with a wire tie and do not let it touch metal.

Connecting an Equalizer/ Booster

If you are connecting the stereo to a separate equalizer or booster, you need additional wires (not included).

To increase the total power output from your system, connect the R (right) and L (left) line output jacks on the back of the stereo and blue/white wire, if necessary, to the equalizer or booster.

(illus - show (Blue/White)
Booster
(Right) R
(Left) L

Check the equalizer/booster's owner's manual for directions.

Connecting Two Pairs of Speakers

If you are using both front and rear speakers, follow these steps to connect the harness with the 14-pin connector to the speakers.

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(illus - (White) (White/Black)
Front Left Speaker
(Gray) (Gray/Black)
Front Right Speaker
(Green) (Green/Black))
Rear Left Speaker
(Violet) (Violet/Black))
Rear Right Speaker

1. Connect the gray wire to the right front speaker's positive terminal. This terminal is usually marked with a plus (+) sign or red mark.
2. Connect the gray/black wire to the right front speaker's negative terminal. This terminal might be marked with a minus (–) sign or it might not be marked at all.
3. Connect the white wire to the left front speaker's positive terminal.
4. Connect the white/black wire to the left front speaker's negative terminal.
5. Connect the violet wire to the right rear speaker's positive terminal.
6. Connect the violet/black wire to the right rear speaker's negative terminal.
7. Connect the green wire to the left rear speaker's positive terminal.
8. Connect the green/black wire to the left rear speaker's negative terminal.

Connecting One Pair of Speakers

If you are using only one pair of speakers, follow Steps 1-4 on the left to connect the harness with the 14-pin connector to the speakers.

(illus - (White) (White/Black)
Left Speaker
(Gray) (Gray/Black)
Right Speaker
(Green) (Green/Black))
Do not Connect
(Violet) (Violet/Black))
Do not Connect

Connecting the Antenna

Connect the vehicle's antenna cable to the stereo's large black antenna connector.

(illus)

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Completing the Connections

Make sure you have securely made all other connections, then plug the harness' connector into the stereo's 14-pin wiring socket. Reconnect the cable to the vehicle battery's negative terminal.

(illus)

TESTING THE CONNECTIONS

Turn on your vehicle's ignition and install your stereo's control panel (see "Installing the Control Panel" on Page 14). The display should light when you press **ON/OFF** to turn on the stereo.

If the stereo does not work, **immediately disconnect the cable from your vehicle battery's negative (–) terminal.** Then recheck your connections.

Caution: If you played a CD while testing the connections, be sure to remove the CD from the stereo before continuing.

After you verify that the display lights, follow the instructions in "Mounting the Stereo."

MOUNTING THE STEREO

Be sure you verify that the stereo is connected properly. See "Making the Connections" on Page 7. Then follow these steps to mount the stereo.

1. Disconnect the cable from the vehicle battery's negative (–) terminal.

(new illus)

2. Disconnect the wire harness and the antenna.

(new illus)

3. Press **RLS** on the lower right-hand corner of the control panel to remove the control panel.

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4. Insert both of the supplied keys into the slots at the left and right sides of the stereo. Press the keys downward, and slide the sleeve off of the stereo.

(illus)

Note: The keys are labeled to show their top edges.

5. Remove the keys from the slots.
6. Insert the sleeve into the dash. Then secure the sleeve to the dash by bending out the tabs with a screwdriver. Bend out all the side tabs.

(illus)

7. If your vehicle has an existing mounting hole under the dash, use pliers or a $^{5}/_{16}$-inch box-end wrench to attach the short end of the supplied mounting bolt to the back of the stereo.

(illus)

8. Reconnect the wire harness and the antenna.
9. Slide the stereo into the sleeve until it locks into place.
10. If you are securing the stereo in an existing mounting hole under the dash, push the supplied rubber mounting grommet onto the mounting bolt, then push the mounting bolt (covered by the mounting grommet) through the existing mounting hole and make sure it is secure.

(illus - show mounting grommet)

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Otherwise, you can use one of the supplied bolts (with attached washer) to attach one end of the supplied metal strap to the mounting hole on the back of the stereo. If necessary, bend the metal strap to fit your vehicle's mounting area. Then use either the supplied sheet metal screws or the other bolt (with attached washer) to attach the other end of the strap to a solid metal part of the vehicle under the dashboard. This strap also helps ensure proper electrical grounding of the stereo.

(illus - show bolt (with attached washers))

2. If you secured the stereo to an existing mounting hole under the dash, slide out the stereo to free the mounting bolt from the mounting hole.

   Or, remove the bolt holding the metal strap attached to the back of the stereo.

3. Press **RLS** to remove the stereo's control panel.

4. Insert both of the supplied keys into the slots at the left and right sides of the stereo. Press the keys downward and slide the stereo out of the dash.

(illus - show keys on slots)

11. Reconnect the cable to the vehicle battery's negative (–) terminal.

REMOVING THE STEREO FROM THE DASH

If you ever want to remove the stereo from the dash, follow these steps.

1. Disconnect the cable from the vehicle battery's negative (–) terminal.

5. Remove the keys from the slots.

6. Disconnect the wire harness and the antenna.

7. If you are mailing or shipping the stereo, use a small Phillips screwdriver to reinstall the shipping screw in the top of the stereo.

8. Reconnect the cable to the vehicle battery's negative (–) terminal.

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USING THE CONTROL PANEL

The stereo's control panel must be in place for the stereo to operate. When you remove it, the display turns off and the stereo cannot be used. This is a simple, but effective security measure.

Any stored stations remain in memory when the control panel is removed.

INSTALLING THE CONTROL PANEL

1. Insert the left edge of the control panel into the left edge of the recess. The pins and holes in the control panel interlock with the pins and holes in the recess.

(illus - show pins in recess holes)

2. Gently push the right edge of the control panel into the recess until you hear a click.

REMOVING THE CONTROL PANEL

1. Press **RLS** until you hear a click. The control panel swings out.

(illus - show control panel swing)

2. Remove the control panel, then store it in the supplied carry case.

(illus)

Caution: To keep the metal connecting pins clean, do not touch the connecting pins in the recess or on the back of the control panel.

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BASIC OPERATION

SETTING THE CLOCK

1. Press **ON/OFF** to turn on the stereo.
2. While pressing and holding down **CLOCK**, repeatedly press **TUNE/ SEEK TRACK –** until the stereo displays the correct hour. To quickly advance the hour, press and hold down **TUNE/SEEK TRACK –**.

(illus)

3. While pressing and holding down **CLOCK**, repeatedly press **TUNE/ SEEK TRACK +** until the stereo displays the correct minute. To quickly advance the minute, press and hold down **TUNE/SEEK TRACK +**.

(illus)

Notes:

- The clock resets the seconds to 0 as soon as you stop advancing the minute or hour.
- You can use a watch with a sweep-second hand or other time reference to set the clock to the exact second at the beginning of an hour. When the time reference reaches the beginning of an hour, press and hold down **CLOCK**, then press **6**. The clock resets the minutes and seconds to 00 and advances the hour if the minutes were past 29.

ADJUSTING THE CONTROLS

When you listen to your stereo, adjust these controls to suit your listening preferences.

(illus)

ON/OFF — Press until the display lights to turn on the stereo. To turn off the stereo, press **ON/OFF** again.

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AUDIO CONTROL +/– — Repeatedly press to increase or decrease the volume. **VOL** and a volume level number appear on the display.

Warning: To protect your hearing, do not listen at high volume levels. Slowly increase the volume to a comfortable listening level.

AUDIO CONTROL SEL — Repeatedly press until **BAS**, **TRE**, **BAL**, or **FAD** and a number appear on the display, then repeatedly press **AUDIO CONTROL +** or **–** within 5 seconds to change the stereo's bass, treble, balance, or fader settings.

Notes:

- When you adjust the balance toward the left speakers, **L** and a number appear on the display. When you adjust the balance toward the right speakers, **R** and a number appear on the display.
- When you adjust the fader toward the front speakers, **F** and a number appear on the display. When you adjust the fader toward the rear speakers, **R** and a number appear on the display.
- If **BAS**, **TRE**, **BAL**, or **FAD** and the number disappear before you press **AUDIO CONTROL +** or **–**, repeatedly press **AUDIO CONTROL SEL** until the setting you want reappears, then repeatedly press **AUDIO CONTROL +** or **–** to set it.
- To set bass, treble, balance, and fader to their center (middle) settings, press and hold down **AUDIO CONTROL SEL** for about 3 seconds until the stereo beeps twice.

Selecting a Preset Equalizer Setting

The stereo has preset graphic equalizer settings to let you vary the balance of the sound it produces. These settings are designed to give you the best sound for jazz, pop, rock, classical, and country and western music.

To select a graphic equalizer setting, repeatedly press **P-EQ** until **ROC** (rock), **JAZ** (jazz), **POP** (pop), **CLS** (classic), or **C W** (country and western) appears on the display. The P-EQ indicator turns on to show that you have selected a graphic equalizer setting.

To turn off equalization, press **P-EQ** until **DFT** (defeat) appears on the display. The P-EQ indicator turns off.

Note: The graphic equalizer setting or **DFT** disappears from the display after about 5 seconds or when you press another button.

DISPLAYING THE CLOCK

While the radio or a CD is playing, press **CLOCK** to display the clock. The stereo displays the clock for 5 seconds, then returns to the radio or CD display.

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Note: If you eject a CD while it is playing and do not remove it from the CD player, the stereo displays **NO Cd**. If you eject a CD then remove it from the CD player, the stereo shows the clock.

RESETTING THE STEREO

If your stereo locks up or does not work properly, use something pointed, such as a straightened paper clip, to press **RESET** for about 1 second.

(illus)

TURNING THE STEREO'S BEEP ON AND OFF

The stereo normally beeps when you press most buttons. To turn the stereo's beep on or off, eject a CD if one is loaded (see "CD Player Operation" on Page 21). Then press and hold down **CD** for about 3 seconds until the stereo beeps twice.

(illus)

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RADIO OPERATION

PLAYING THE RADIO

1. Press **ON/OFF** to turn on the stereo. The radio automatically tunes to the last station and band selected.

(illus)

Note: If you ejected a CD just before turning off the stereo, the display shows the time.

2. Press **BAND** to select the desired band. **AM** appears on the display when the AM band is selected. **FMI** or **FMII** appears on the display when an FM band is selected.

(illus)

3. Tune to the desired station in one of the following ways.

(illus)

Manual Tuning: Repeatedly press **TUNE/SEEK TRACK –** or **+** to tune down or up the selected band.

Seek Tuning: Press and hold down **TUNE/SEEK TRACK –** or **+** for about 1 second to tune to the next lower or higher station.

Note: If **DX** appears on the display, the stereo stops on both strong and weak FM stations. To limit seek tuning to only strong FM stations, press **LO/DX** so **DX** disappears.

4. Press **AUDIO CONTROL +** or **–** to increase or decrease the volume as desired.

(illus)

Notes:

- **ST** appears on the display when an FM signal is received in stereo.
- See “Adjusting the Controls” on Page 15 for information about changing the stereo’s other settings.

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MEMORY TUNING

You can manually store up to 6 AM and 12 FM stations in memory groups. Each memory group (AM, FMI, and FMII) holds up to six stations. You can also automatically store the first 6 strong AM and first 6 strong FM stations in a separate automatic travel programming memory.

Manually Storing Stations

1. Repeatedly press **BAND** to select the desired memory group (**AM** for AM, or **FMI** or **FMII** for FM).
2. Use either seek or manual tuning to tune to the station you want to store.

   Note: To tune both strong and weak FM stations, press **LO/DX** so **DX** appears. To tune only strong FM stations, press **LO/DX** so **DX** disappears.
3. Press and hold down the desired memory channel button until the memory channel number, **ch**, and the frequency flash once on the display. The station is stored.

(illus - callout 'Memory Channel Buttons)

Storing Stations in Automatic Travel Programming Memory

The stereo can store the first 6 strong AM and the first 6 strong FM stations it finds into its automatic travel programming memory. This memory is separate from the stereo's memory groups, so it does not replace the stations you manually stored.

1. Repeatedly press **BAND** to select the desired band (**AM** for AM, or **FMI** or **FMII** for FM).
2. Press and hold down **TUNE/SEEK TRACK ATP** (automatic travel programming) for about 2 seconds. The stereo displays **AS**, scans the selected band, and automatically stores the first 6 strong stations it finds in automatic travel programming memory.

(illus)

After the stereo stores all six stations in the selected band, it tunes to the station stored in channel 1 in automatic travel programming memory.

Note: If the stereo could not find any stations, **- - -** and the channel number appears on the display. Press **BAND** or select another station to listen to the radio.

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3. Press and release **TUNE/SEEK TRACK ATP** so **AS** disappears from the display.

Selecting a Stored Station

To select a station you manually stored in AM, FMI, or FMII, repeatedly press **BAND** to select the desired memory group, then press the desired memory channel button.

Note: Do not hold down the memory channel button. This stores the currently tuned station into that location.

Follow these steps to select a station you automatically stored in automatic travel programming memory.

1. Repeatedly press **BAND** to select the desired band (**AM** for AM, or **FMI** or **FMII** for FM).
2. Press **TUNE/SEEK TRACK ATP** until **AS** appears on the display.

   Note: Do not hold down **TUNE/SEEK TRACK ATP**. This causes the stereo to automatically scan and store the first 6 strong stations it finds into its automatic travel programming memory.
3. Press the desired memory channel button.

   Note: If the stereo could not find any strong stations, **- - -** and the channel number appear on the display if you try to tune to an automatic travel programming memory channel.

Scanning Stored Stations

The radio can scan all stored stations in the selected band, pausing for 5 seconds at each station.

To start scanning stored stations, repeatedly press **BAND** to select the desired memory group, then press **P-SCAN**.

To scan the stations in the automatic travel programming memory, press **BAND** to select the desired band, press **TUNE/SEEK TRACK ATP** so **AS** appears on the display, then press **P-SCAN**.

(illus - call out P-SCAN button)

As the radio scans each memory channel, the channel number flashes and the frequency is displayed. After scanning all memory channels, the stereo returns to the original station.

To stop the scanning when the radio pauses at a station you want to listen to, press **P-SCAN** again.

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CD PLAYER OPERATION

Cautions:

- Play only CDs that have this mark on them:

- The CD player has a wide dynamic range. As a result, if you turn your stereo's volume up too high during soft (low volume) sections of a program, your speakers might be damaged when a sudden loud passage occurs.
- If the CD player is jolted during play, the rotation speed might suddenly change or the CD player might make an unusual noise. This is not a malfunction.

PLAYING A CD

1. Press **ON/OFF** to turn on the stereo.
2. Insert a CD (label side up) in the slot. The stereo displays **DISC IN**, **CD**, and **TR:01** and the CD starts to play from Track 1.

(illus)

   If a CD is already in the CD player, simply press **CD** to play the CD. The stereo displays **CD**, **DISC IN**, **TR:**, and the track number of the track you last played, and the CD starts to play from the point where you last stopped it.

   After the stereo plays the entire CD, it automatically repeats all tracks, starting with Track 1.

   Note: If you turn off your vehicle's ignition when a CD is loaded, you must wait about 2 seconds after you turn the ignition back on before you can press **CD** to play the CD.

3. Press **AUDIO CONTROL +** or **–** to increase or decrease the volume as desired.

   Note: See "Adjusting the Controls" on Page 15 for information about changing the stereo's other settings.

4. To pause playback, press **CD**. The stereo displays **PAU**, **DISC IN**, **TR:**, and the track number. To resume play, press **CD** again.

   Note: If you pause a CD for more than 5 minutes, the stereo turns itself off.

5. To remove a CD from the CD player, press ⏏.

(illus)

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SELECTING A TRACK

To select a track on the loaded CD, press **TUNE/SEEK TRACK +** during play to advance to the next track or press **TUNE/SEEK TRACK –** to go back to the start of the current track. Repeatedly press **TUNE/SEEK TRACK +** or **–** to select the next or previous track.

AUDIBLE SEARCH

To search for a particular section of a track, press and hold down **TUNE/SEEK TRACK +** or **TUNE/SEEK TRACK –** during play. The stereo rapidly plays the CD either forward or backward (like cueing or reviewing a cassette tape). When you hear the section you want, release **TUNE/SEEK TRACK +** or **TUNE/SEEK TRACK –** to resume normal play.

(illus - arrow TUNE SEEK TRACK)

SHUFFLE PLAY

You can set the stereo to randomly select and play tracks from the loaded CD. After each track plays, the stereo automatically selects another track and plays it until you stop shuffle play.

To begin shuffle play, press **SHUF**. The stereo displays **DISC IN**, **SHF**, **TR:**, and the track number.

(illus - arrow SHUF key)

To stop shuffle play, press **SHUF** again to resume normal play. **SHF** disappears.

Note: You can use audible search during shuffle play (see “Audible Search”).

SCANNING THE TRACKS

You can set the stereo to play the first 10 seconds of each track on the loaded CD, so you can find the track you want to listen to.

To begin scanning, press **SCAN**. The stereo displays **DISC IN**, **SCN**, **TR:**, and the track number.

(illus - arrow SCAN key)

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To stop scanning, press **SCAN** again at the desired track to resume normal play. **SCN** disappears.

REPEAT PLAY

You can set the stereo to repeat a single track on the loaded CD.

To repeat a track, press **RPT** during play. The stereo displays **DISC IN**, **RPT**, **TR:**, and the track number. When the track ends, it automatically repeats play.

(illus - arrow RPT key)

To stop repeating the track, press **RPT** again to resume normal play. **RPT** disappears.

SWITCHING BETWEEN THE CD AND THE RADIO

You can temporarily stop a CD and listen to the radio by pressing **BAND**. The CD stops and the radio tunes to the last station selected.

To continue playing the CD, press **CD**.

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TROUBLESHOOTING

If your stereo's CD player is not working as it should, it displays an error indicator. If it is a numbered error, it ejects the loaded CD. Try these suggestions.

Indicator	Problem	Suggestion
E01	Loading and/or unloading operation fails.	Make sure a CD is loaded. If it is not, insert the CD properly. If it is, eject the CD and load it again.
E07	The CD is loaded incorrectly.	Reload the CD with the label side up.
	The CD is dirty or defective.	Clean the CD (see "CD Care Tips" on Page 26) or try another CD.
L Err	Abnormal CD operation.	Contact your local RadioShack store for assistance.

If the stereo still does not operate properly, the connecting pins in the recess or on the back of the control panel might be dirty. Use a soft cloth or a contact cleaner (such as Cat. No. 64-4340) to clean them.

(new illus)

If the stereo still does not operate properly, take it to your local RadioShack store for assistance.

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CARE AND MAINTENANCE

Your Optimus High-Power In-Dash AM/FM Stereo CD Player is an example of superior design and craftsmanship. The following suggestions will help you care for the stereo so you can enjoy it for years.

Keep the stereo dry. If it gets wet, wipe it dry immediately. Liquids can contain minerals that can corrode electronic circuits.

Handle the stereo gently and carefully. Dropping it can damage the circuit boards and case and can cause it to work improperly.

Keep the stereo away from dust and dirt, which can cause premature wear of parts.

Wipe the stereo with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the stereo.

Modifying or tampering with the stereo's internal parts can cause a malfunction and might invalidate your stereo's warranty and void your FCC authorization to operate it. If your stereo is not performing as it should, take it to your local RadioShack store for assistance.

THE FCC WANTS YOU TO KNOW

Your stereo might cause TV or radio interference even when it is operating properly. To determine whether your stereo is causing the interference, turn off your stereo. If the interference goes away, your stereo is causing it. Try to eliminate the interference by:

- Moving your stereo away from the receiver
- Contacting your local RadioShack store for help

If you cannot eliminate the interference, the FCC requires that you stop using your stereo.

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CD CARE TIPS

Even though a CD is very durable, you should handle it with care. We recommend the following precautions.

- Keep the CD in its protective case or sleeve when you are not playing it.
- Handle a CD by its edges to avoid fingerprints which can prevent the CD player's laser beam from accurately reading the CD. Your local RadioShack store sells a suitable CD cleaner kit.
- Do not write on either side of the CD, particularly the non-label side. (Signals are read from the non-label side.)
- Keep the CD dry. A water drop can act as a lens and affect the laser beam's focus.
- If you park your vehicle in the sun, temperatures inside the vehicle can easily reach levels that could damage your CDs. To prevent heat damage, avoid leaving your CDs in your vehicle.

If a CD skips when you try to play it, it might be scratched. Your local RadioShack store sells a Scratch 'n Fix kit (Cat. No. 42-127) that might help remove the scratch and stop the skip. See also "Troubleshooting" on Page 24.

REPLACING A FUSE

If the clock resets or stored stations are lost when the ignition is off, you might need to replace the yellow continuous power wire's fuse with the supplied spare fuse. If the stereo does not operate, you might need to replace the red power wire's fuse with the supplied spare fuse. Check both fuses.

1. Disconnect the cable from the vehicle battery's negative (–) terminal.
2. To open the yellow continuous power wire's fuse holder, pull the latches apart until it opens. Then, if the fuse is blown, gently pull one of the fuse holder's wires up and pull the fuse off of both wire clips inside the fuse holder.

(illus - show yellow fuse holder)

3. To open the red power wire's fuse holder, push together and twist the fuse holder's parts until they spring apart. Then remove the fuse if it is blown.

(illus - show red fuse holder)

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4. If either fuse is blown, replace it. Use only standard 1 1/4-inch fuses with the proper rating. The yellow continuous power wire's fuse must be 10 amps, and the red power wire's fuse must be 1.0 amp.

   Caution: Make sure you replace a fuse only with another fuse of the same rating.

5. Reassemble the yellow continuous power wire's fuse holder by placing the wires back inside the holder then squeezing it together until it snaps shut.

6. Reassemble the red power wire's fuse holder by inserting the fuse and pushing together and twisting the two parts until they latch.

7. Reconnect the cable to the vehicle battery's negative (–) terminal.

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SPECIFICATIONS

RADIO

	FM (Nominal)	AM (Nominal)
Frequency Range	88–108 MHz	530–1710 kHz
Frequency Response (± 3 dB)	50–12500 Hz	N/A
IF Rejection	85 dB	40 dB
Image Rejection	60 dB	25 dB
Selectivity	66 dB	100 dB
Signal-to-Noise (S/N) Ratio	60 dB	49 dB
Stereo Separation	30 dB	N/A
Usable Sensitivity	17 dBf	29 dB

CD PLAYER

Frequency Response ..... 5–20000 Hz
Signal-to-Noise Ratio ..... 65 dB
Harmonic Distortion ..... 0.08 %
Wow and Flutter ..... Not Measurable
CDs Used (Diameter) ..... 5-inch (120 mm) and 3-inch (80 mm)

SIGNAL FORMAT

D-A Conversion ..... 1 Bit Linear
Transmission Bit Rate ..... 1.4 Mbit/sec
Sampling Frequency ..... 8 times
Pick-Up System ..... Optical Pick-Up
Optical Source ..... Laser
Wavelength ..... 785 nm
Rotation Speed ..... 200–500 rpm
Error Correction ..... CIRC
Number of Channels ..... 2-ch stereo

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GENERAL

Power Source ..... 12V DC Negative Ground

Speaker Output Impedance.....4 Ohms

Maximum Power.....25 Watts/Channel

Power Output (10% THD @ 1 kHz).....16 Watts RMS/Channel

Chassis Size (HWD).....2.28 ¥ 7.40 ¥ 7.08 Inches
(58 ¥ 188 ¥ 180 mm)

Weight ..... 52.9 oz
(1.5 kg)

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

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NOTES

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RadioShack Limited Warranty

This product is warranted against defects for 1 year from date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. Within this period, we will repair it without charge for parts and labor. Simply **bring your RadioShack sales slip** as proof of purchase date to any RadioShack store. Warranty does not cover transportation costs. Nor does it cover a product subjected to misuse, accidental damage, alteration or improper installation.

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