SECTION 9A

AUDIO SYSTEMS

NOTICE: Always use the correct fastener in the proper location. When you replace a fastener, use ONLY the exact part number for that application. General Motors will call out those fasteners that require a replacement after removal. General Motors will also call out the fasteners that require thread lockers or thread sealant. UNLESS OTHERWISE SPECIFIED, do not use supplemental coatings (paints, greases, or other corrosion inhibitors) on threaded fasteners or fastener joint interfaces. Generally, such coatings adversely affect the fastener torque and joint clamping force, and may damage the fastener. When you install fasteners, use the correct sequence and tightening specifications. Following these instructions can help you avoid damage to parts and systems.

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GENERAL DESCRIPTION

The audio system consists of a radio, four speakers, and an antenna. An AM/FM stereo radio with clock, an AM/FM stereo radio with auto-reverse tape player and clock and an AM/FM stereo radio with auto-reverse tape player, compact disc player and clock are available options. The ignition switch must be in the "ACC" or "ON" positions to operate either of the sound systems. The two front speakers are located on the lower part of the instrument panel, one on each side. The two rear speakers are located in the rear quarter trim panel. The AM/FM stereo radio with auto-reverse tape player and clock and the AM/FM stereo radio with auto-reverse tape player, compact disc player and clock have five preset tone settings for sound quality and is equipped with a theft-deterrent feature.

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NOTICE: All GM factory-equipped audio systems have ungrounded speakers. Installing after-market tape players, citizen band radios or other units which use the factory speakers may damage the audio system or impair the operation of the after-market unit.

FM RADIO RECEPTION

The FM tuner operates on a band from 87.7 MHz to 107.9 MHz. Optimum FM radio reception range is usually limited to a maximum of 16 to 64 kilometers (10 to 40 miles) depending upon terrain, atmospheric conditions, station power, antenna height and distance from the transmitter. Tall buildings, hills or other objects can cause signal flutter or noise which can be eliminated by tuning to a stronger station.

9A-2 AUDIO SYSTEMS

AM RADIO RECEPTION

The AM tuner operates on a band from 530 kHz to 1710 kHz. The range of most AM stations is greater than FM, especially at night. The longer range, however, can cause stations to interfere with each other. AM reception is also subject to noise interference from storms, power lines, etc. Reducing treble helps reduce the noise.

OPERATING INSTRUCTIONS

DELCO® AM/FM STEREO RADIO WITH CLOCK

Figure 1

Radio Operation

Radio Display Illumination

When the headlamps or parking lamps are turned on, the illumination of the display is controlled by the illumination controller (located on the lower instrument panel to the left of the steering wheel). When the headlamps or parking lamps are off, the display is lighted at 100% intensity and is not adjustable.

"ON VOL"

The ignition must be in the "ACC" or "ON" positions for the radio to operate. With the ignition in the "OFF" position, the time will be displayed for approximately five seconds by pressing the "RCL" button. When the ignition is in the "ACC" or "ON" positions and the radio is turned off, the time will be displayed and all controls except those required to set the clock will be deactivated; refer to "Clock Operation" later in this section. Turning the knob

clockwise, past the detent, initially turns the radio on and turning further will increase volume. To decrease volume, turn the knob counterclockwise. Continuing past the detent turns the radio off.

"RCL"

Pressing the "RCL" button (with the radio on) will toggle the display between the clock and radio frequency. After approximately five seconds, the display will revert to the clock. This dual function button is also used to set the clock; refer to "Clock Operation" later in this section.

"AM-FM"

Press this button to toggle between the AM and FM bands. "AM" or "FM" will appear on the display depending upon the band chosen, and the radio will automatically go to the frequency tuned when that band was last active.

"◀ SEEK ▶"

The seek function is activated by pressing either end of the "◀ SEEK ▶" button. Press "SEEK ▶" to automatically tune to the next higher station within range. Press "◀ SEEK" to automatically tune to the next lower station within range. In either case, when the end of the band is reached, the seek function will continue in the same direction at the opposite end of the band.

"**⊲** TUNE ▶"

Press and hold the "TUNE ▶" button to manually tune to the next higher frequency. Press and hold the "◀ TUNE" button to manually tune to the next lower frequency. If the "◀ TUNE ▶" button is held down in either direction for more than one second, it goes into fast tune. On the AM band, the

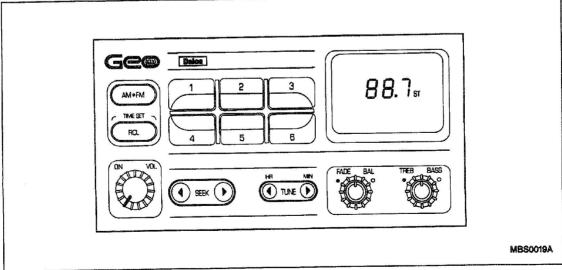


Figure 1-Delco® AM/FM Stereo with Clock

frequency advances in increments of 10 kHz in both directions. On the FM band, the frequency advances in increments of 0.2 MHz in both directions. Release the button when desired frequency is reached. This dual function button is also used to set the clock; refer to "Clock Operation" later in this section.

Radio Frequency Preset Buttons

There are six station preset buttons numbered "1" through "6". They permit presetting of 12 stations (6 AM and 6 FM).

To set a station preset button:

- 1. Select the desired band (AM or FM).
- 2. Tune the radio to the desired station.
- 3. Press and hold the desired preset button for approximately three seconds. The sound will be interrupted during this step. When the sound resumes, the button is set to the desired station and the button can be released. The radio will now automatically tune to that pre-determined station when the button is pressed.

If the radio power is interrupted, the preset buttons lose their memory and must be reset.

Setting Tone

Turn the "BASS" knob (outer ring) clockwise to increase bass and counterclockwise to decrease it. Turn the "TREB" knob (inner ring) clockwise to increase treble and counterclockwise to decrease it.

Adjusting Speaker Balance

Turn the "BAL" knob (outer ring) to move the sound between the right and left speakers. Turn the "FADE" knob (inner ring) to move the sound between the front and rear speakers.

Clock Operation

The clock function of this radio does not have a memory function. If the radio power is interrupted, the clock will have to be reset. To set the clock, the ignition switch must be in the "ACC" or "ON" position, but the radio can be on or off. To set the hour, press and hold "RCL" ("TIME SET"). At the same time, press and hold "₹ TUNE" ("HR") until the correct hour appears. To set the minutes, press and hold "RCL" ("TIME SET"). At the same time, press and hold "TUNE ▶" ("MIN") until the correct minute appears.

DELCO® AM/FM STEREO RADIO, CASSETTE PLAYER AND CLOCK

Figure 2

Radio Operation

Radio Display Illumination

When the headlamps or parking lamps are turned on, the illumination of the display is controlled by the illumination controller (located on the lower instrument panel to the left of the steering wheel).

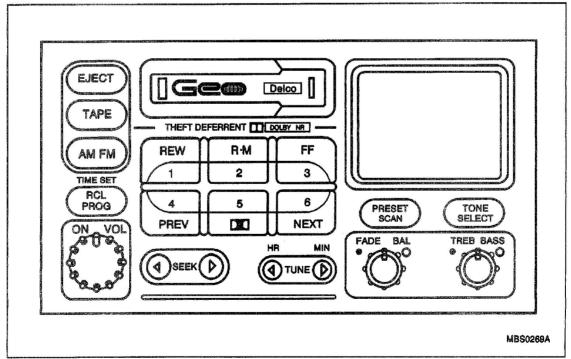


Figure 2-Delco® AM/FM Stereo, Cassette Player and Clock

When the headlamps or parking lamps are off, the display is lighted at 100% intensity and is not adjustable.

"ON VOL"

The ignition must be in the "ACC" or "ON" positions for the radio to operate. With the ignition in the "OFF" position, the time will be displayed for approximately five seconds by pressing the "RCL PROG" button. When the ignition is in the "ACC" or "ON" positions and the radio is turned off, the time will be displayed and all controls except tape eject and those required to set the clock will be deactivated; refer to "Clock Operation" later in this section. Turning the knob clockwise past the detent initially turns the radio on and turning further will increase volume. To decrease volume, turn the knob counterclockwise. Continuing past the detent turns the radio off.

"RCL PROG"

Pressing the "RCL PROG" button (with the radio on) will toggle the display between the clock and radio frequency. After approximately five seconds, the display will revert to the clock. This dual function button is also used to set the clock; refer to "Clock Operation" later in this section.

"ARA-FAR

Press this button to toggle between the AM and FM bands. "AM," "FM1" or "FM2" will appear on the display depending upon the band chosen, and the radio will automatically go to the frequency tuned when that band was last active.

"PRESET SCAN"

Pressing the "PRESET SCAN" button will preview the preset stations on the band currently selected (AM, FM1 or FM2) starting with the first preset button and proceeding through the sixth button, stopping on each for approximately five seconds. Each frequency will be displayed as it is tuned. If not discontinued before reaching the sixth preset button, the radio will return to the first button and repeat the process. Press "PRESET SCAN" to cancel the preset scan function.

"∢ SEEK Þ"

The seek function is activated by pressing either end of the "◀ SEEK ▶" button. Press "SEEK ▶" to automatically tune to the next higher station within range. Press "◀ SEEK" to automatically tune to the next lower station within range. In either case, when the end of the band is reached, the seek function will continue in the same direction at the opposite end of the band.

"4 TUNE "

Press and hold the "TUNE ▶" button to manually tune to the next higher frequency. Press and hold the "◀ TUNE" button to manually tune to the next lower frequency. If the button is held down in either direction for more than one second, it will go

into fast tune. On the AM band, the frequency advances in increments of 10 kHz in both directions. On the FM band, the frequency advances in increments of 0.2 MHz in both directions. Release the button when desired frequency is reached. This dual function button is also used to set the clock; refer to "Clock Operation" later in this section.

Radio Frequency Preset Buttons

There are six station preset buttons numbered "1" through "6." They permit presetting of 18 stations (6 AM and 12 FM—6 on FM1 and 6 on FM2).

- To set a station preset button:
- 1. Select the desired band (AM or FM).
- 2. Tune the radio to the desired station.
- 3. Press and hold the desired preset button for approximately three seconds. The sound will be interrupted during this step. When the sound resumes, the button is set to the desired station and the button can be released. The radio will now automatically tune to the pre-determined station when the button is pressed.

If the radio power is interrupted, the preset buttons will lose their memory and must be reset. All six buttons have a dual function. Refer to "Cassette Operation" later in this section for details on their operation in the cassette mode.

Setting Tone

Turning the "BASS" knob (outer ring) clockwise will increase bass and turning counterclockwise will decrease it. Turning the "TREB" knob (inner ring) clockwise will increase treble and counterclockwise will decrease it.

NOTICE: Both controls have a detent position at the center for balance of treble and bass. When a preset equalization is active, rotating either the "TREB" or "BASS" knobs will cancel the preset equalization and revert to "BASS" and "TREB" controls.

"TONE SELECT"

Press the "TONE SELECT" button to activate the preset tone feature and choose preset treble and bass equalization settings for "ROCK," "NEWS," "POP," "JAZZ" or "CLASSICAL." Each time the "TONE SELECT" button is pressed, a different setting will appear on the display. Press the "TONE SELECT" button again after "CLASSICAL" and control of tone will revert to the "TREB" and "BASS" controls.

NOTICE: When a preset equalization is active, rotating either the "TREB" or "BASS" knobs will cancel the preset equalization and revert to "BASS" and "TREB" controls.

Adjusting Speaker Balance

Turn the "BAL" knob (outer ring) to move the sound between the right and left speakers. Turn the "FADE" knob (inner ring) to move the sound between the front and rear speakers.

Cassette Player Operation

The ignition switch must be in the "ACC" or "ON" position for the cassette player to operate. The cassette player is designed to work best with tapes which are 60 to 90 minutes long. Tapes longer than this are thinner and may not function properly in this unit. Do not use these tapes to diagnose problems in the cassette player.

The side of the cassette with the tape visible should face to the right when inserted in the unit. If there is no sound or just a garbled sound, it may not be sitting squarely in the player. Press the ("BJECT") button to remove the tape and reinsert it. Once the tape is playing, the volume, balance and fade controls function in the same manner as with the radio. The tape bias is set automatically. When a metal or chrome tape is inserted, "MTL" will appear on the display.

Tape Direction Indicators

The side of the tape being played (top or bottom) is indicated by the arrows at the far left of the display.

Fast Forward

Press the "3" ("FF") button to rapidly advance to another part of the tape. Press the "3" ("FF") or the "RCL PROG" button to return to normal playing speed.

NOTICE: Pressing "RCL PROG" not only stops fast forward operation, but will also change tape side.

Rewind

Press the "1" ("REW") button to rapidly reverse and return to another part of the tape. Press the "1" ("REW") or the "RCL PROG" button to return to normal playing speed.

NOTICE: Pressing "RCL PROG" not only stops rewind operation, but will also change tape side.

Next Selection

Press the "6" ("NEXT") button to move rapidly to the beginning of the next selection. For the next selection function to operate properly, there must be three to four seconds of silence between selections on the tape. "NEXT" can be canceled by pressing either "NEXT" or "RCL PROG."

NOTICE: Pressing "RCL PROG" not only stops "NEXT" operation, but will also change tape side.

Previous Selection

Press the "4" ("PREV") button to play the last selection again. For the previous selection function to operate properly, there must be three to four seconds of silence between selections on the tape. Previous can be canceled by pressing either "PREV" or "RCL PROG."

NOTICE: Pressing "RCL PROG" not only stops "PREV", but will also change tape sides.

Changing Programs

Press the "RCL PROG" button to switch from one side of the tape to the other. Note arrow in graphic display.

Dolby® Noise Reduction

Press the "5" button to remove noise from Dolby® NR-encoded tapes. (Dolby Noise Reduction is manufactured under license from Dolby Laboratories Licensing Corporation. Dolby and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.)

Elect

Press the "EJECT" button to remove or stop the tape and return to radio operation.

Radio Monitor

Press the "R-M" ("2") button to listen to the radio when you are fast-forwarding or rewinding a cassette tape. You may only use the "TUNE," "SEEK" and "PRESET SCAN" buttons while in the radio mode.

NOTICE: During "R-M" (radio monitor) operation, the preset push buttons will not tune the radio

Clock Operation

The clock function of this radio does not have a memory function. If the radio power is interrupted, the clock will have to be reset. To set the clock, the ignition switch must be in the "ACC" or "ON" position, but the radio can be on or off. To set the hour, press and hold "RCL PROG" ("TIME SET"). At the same time, press and hold "◀ TUNE" ("HR") until the correct hour appears. To set the minutes, press and hold "RCL PROG" ("TIME SET"). At the same time, press and hold "TUNE ▶" ("MIN") until the correct minute appears.

DELCO® AM/FM STEREO RADIO, CASSETTE PLAYER, COMPACT DISC (CD) PLAYER AND CLOCK

Figure 3

Radio Operation

Radio Display Illumination

When the headlamps or parking lamps are turned on, the illumination of the display is controlled by the illumination controller (located on the lower instrument panel to the left of the steering wheel). When the headlamps or parking lamps are off, the display is lighted at 100% intensity and is not adjustable.

"ON VOL"

The ignition must be in the "ACC" or "ON" positions for the radio to operate. With the ignition in the "OFF" position, the time will be displayed for approximately five seconds by pressing the "RCL"

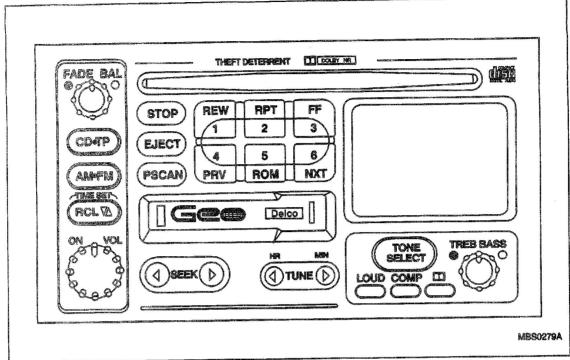


Figure 3-Delco® AM/FM Stereo, Cassette Player, Compact Disc (CD) Player and Clock

button. When the ignition is in the "ACC" or "ON" positions and the radio is turned off, the time will be displayed and all controls except tape eject and those required to set the clock will be deactivated; refer to "Clock Operation" later in this section. Turning the knob clockwise, past the detent, initially turns the radio on and turning further will increase volume. To decrease volume, turn the knob counterclockwise. Continuing past the detent turns radio off.

"RCL"

Pressing the "RCL" button (with the radio on) will toggle the display between the clock and radio frequency. After approximately five seconds the display will revert to the clock. This dual function button is also used to set the clock; refer to "Clock Operation" later in this section.

"AM-FM"

Press this button to toggle between the AM and FM bands. "AM", "FM1" or "FM2" will appear on the display depending upon the band chosen, and the radio will automatically go to the frequency tuned when that band was last active.

"PSCAN"

Pressing the "PSCAN" button will preview the preset stations on the band currently selected (AM, FM1 or FM2) starting with the first preset button and proceeding through the sixth button, stopping on each

for approximately five seconds. Each frequency and button number will be displayed as it is tuned. If not discontinued before reaching the sixth preset button, the radio will return to the first button and repeat the process. Press "PSCAN" to cancel the preset scan function.

"◀ SEEK ▶"

The seek function is activated by pressing either end of the "◀ SEEK ▶" button. Press "SEEK ▶" to automatically tune to the next higher station within range. Press "◀ SEEK" to automatically tune to the next lower station within range. In either case, when the end of the band is reached, the seek function will continue at the opposite end of the band.

"4 TUNE ▶"

Press and hold the "TUNE ▶" button to manually tune to the next higher frequency. Press and hold the "◀ TUNE" button to manually tune to the next lower frequency. If either end of the "◀ TUNE ▶" button is held down for more than one second, the radio will go into fast tune. On the AM band, the frequency advances in increments of 10 kHz in both directions. On the FM band, the frequency advances in increments of 0.2 MHz in both directions. Release the button when desired frequency is reached. This duel function button is also used to set the clock; refer to "Clock Operation" later in this section.

Radio Frequency Preset Buttons

There are six station preset buttons numbered "1" through "6". They permit presetting of 18 stations (6 AM and 12 FM—6 on FM1 and 6 on FM2).
To set a station preset button:

- 1. Select the desired band (AM or FM).
- 2. Tune the radio to the desired station.
- 3. Press and hold the desired preset button for approximately three seconds. The sound will be interrupted during this step. When the sound resumes, the button is set to the desired station and the button can be released. The radio will now automatically tune to pre-determined station when the button is pressed.

If the radio power is interrupted, the preset buttons lose their memory and must be reset. All six buttons have three functions. Refer to "Cassette Player Operation" and "Compact Disc (CD) Player Operation" later in this section for details on their other functions.

Setting Tone

Turn the "BASS" knob (outer ring) clockwise to increase bass and counterclockwise to decrease it. Turn the "TREB" knob (inner ring) clockwise to increase treble and counterclockwise to decrease it.

NOTICE: When a preset equalization is active, rotating either the "TREB" or "BASS" knob will cancel the preset equalization and revert to the "TREB" and "BASS" controls.

"LOUD"

To increase the bass tone at low volume levels, press the "LOUD" button. When the loudness feature is activated, "LOUD" will appear on the display. Press the "LOUD" button again to disable the loudness feature and return to normal bass tone.

"TONE SELECT"

Press the "TONE SELECT" button to activate the present tone function and select preset treble and the present tone function and select preset use of and bass equalization settings for "ROCK," "NEWS," "POP," "JAZZ" or "CLASSICAL." Each time the "TONE SELECT" button is pressed, another setting will appear on the display. Press the "TONE SELECT" button again after "CLASSICAL" and control of the tone will revert to the "TREB" and "BASS" controls.

NOTICE: When a preset equalization is active, rotating either the "TREB" or "BASS" knob will cancel the preset equalization and revert to the "TREB" and "BASS" controls.

Adjusting Speaker Balance

Turn the "BAL" knob (outer ring) to move the sound between the right and left speakers. Turn the "FADE" knob (inner ring) to move the sound between the front and rear speakers.

Cassette Player Operation

The ignition switch must be in the "ACC" or "ON" position for the cassette player to operate. The cassette player is designed to work best with tapes which are 60 to 90 minutes long. Tapes longer than this are thinner and may not function properly in this unit. Do not use these tapes to diagnose the cassette player. The side of the cassette with the tape visible should face to the right when inserted in the unit. If there is no sound or just a garbled sound, it may not be sitting squarely in the player. Press the "STOP" and then "EJECT" buttons to remove the tape and reinsert it. Once the tape is playing, the volume, balance and fade controls function in the same manner as with the radio. The tape bias is set automatically. When a metal or chrome tape is inserted, "MTL" will appear on the display.

Tape Direction Indicators

The side of the tape being played (top or bottom) is indicated by the arrows at the far left of the display.

Fast Forward

Press the "3" ("FF") button to rapidly advance to another part of the tape. Press the "3" ("FF"), "RCL" or "STOP" buttons to return to normal playing speed. The radio will resume playing while the tape is in the fast forward mode.

NOTICE: Pressing "RCL" not only stops fast forward operation, but will also change sides.

Rewind

Press the "1" ("REW") button to rapidly reverse and return to another part of the tape. Press the "1" ("REW"), "RCL" or "STOP" buttons to return to normal playing speed. The radio will resume playing while the tape is in the rewind mode.

NOTICE: Pressing "RCL" not only stops rewind operation, but will also change tape side.

Next Selection

Press the "6" ("NXT") button to move rapidly to the beginning of the next selection. For the next selection function to operate properly, there must be three to four seconds of silence between selections on the tape. "NXT" appears in the display when activated. To cancel "NXT" press "NXT," "STOP" or "RCL."

NOTICE: Pressing "RCL" not only stops next operation, but will also change tape side.

Previous Selection

Press the "4" ("PRV") button to play the last selection again. For the previous selection function to operate properly, there must be three to four seconds of silence between selections on the tape. "PRV" appears in the display when activated. To cancel previous, press "PRV," "STOP" or "RCL." NOTICE: Pressing "RCL" not only stops previous operation, but will also change tape side.

Changing Programs

Press the "RCL" button to switch from one side of the tape to the other.

Dolby® Noise Reduction

Press the Dolby double-D button to remove noise from Dolby® NR-encoded tapes. The Dolby double-D symbol appears in the display when activated. (Dolby Noise Reduction is manufactured under license from Dolby Laboratories Licensing Corporation. Dolby® and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.)

"STOP"

Press the "STOP" button to stop the playing of a tape and return to radio operation.

"EJECT"

Press the "EJECT" button to remove a tape when playing at normal speed or after turning the radio off.

"RDM"

Press the "RDM" ("5") button to play the radio during "FF" and "REW" cassette tape player operation. To turn the radio off, press "RDM" ("5") again.

NOTICE: During "RDM" operation, the preset push buttons will not tune the radio, but "TUNE," "SCAN" and "PSCAN" will.

"RPT"

Press the "RPT" ("2") button to replay the program in progress. (When the end of the program is reached, the tape player will rewind the tape to the beginning of that program and resume play. This feature will continue to repeat until "RPT" ("2") is pressed again). "REPEAT" appears in the display when activated.

Compact Disc (CD) Player Operation

NOTICE: This CD player is designed to play only 120 mm (4.75 in.) size discs. All CDs used in this system must display the block-lettered symbol "COMPACT DISC DIGITAL AUDIO". Insertion of a disc which does not display this symbol, such as 76 mm (3 in.) size discs—commonly referred to as "CD single", may cause damage to the CD player and/or disc. Do not use a 76 mm disc when diagnosing problems in the CD player.

Compact Disc Player Errors

If "Err" appears on the display, an error has occurred and the compact disc cannot play temporarily. The following conditions may have caused the error:

• The road is too rough. The disc should play when

the road is smoother.

· The disc is dirty, scratched, wet or upside down.

 The air is very humid. If so, wait about an hour and try again.

Recall

Press the "RCL" button to display the track number currently playing. Press it again within 5 seconds to display the elapsed time for that track. The track number also appears when the disc is inserted or when changing the volume.

Previous

Pressing the "4" ("PRV") button will mute the audio and return the CD player to the beginning of the current track. If this button is held in or pressed more than once, the disc will go to previous tracks, cycling back (if held) or moving one track for each time the button is pressed. The track number(s) will appear on the display.

Next

Pressing the "6" ("NXT") button will mute the audio and move the CD player to the next selection. If this button is held or pressed more than once, the disc will proceed through further tracks, cycling forward (if held) or moving one track for each time the button is pressed. The track number(s) will appear on the display.

Reverse

Pressing and holding the "1" ("REW") button will rapidly return to a favorite passage. The current selection will remain audible at a lower volume level during the reverse mode. Releasing it will resume playing the passage at that point at normal volume. If the beginning of the current selection is reached, the previous selection will start.

Forward

Pressing and holding the "3" ("FF") button will advance quickly within a track. The current selection will remain audible at a decreased volume level during the forward mode. Releasing it will resume playing the passage at that point at normal volume. If the end of the current selection is reached, the next selection will start.

Compression

Pressing the "COMP" button will alternately enable and disable the volume equalizer between soft and loud passages. To allow all passages to be heard despite road noises, the low volume passages are increased in volume without adjustment of the "volume" knob. The "COMP" indicator will appear on the display.

Repeat

Pressing the "2" ("RPT") button once will repeat a selection again after it is completed. Pressing the "2" ("RPT") button again will cancel this feature. The word "REPEAT" will appear on the display while this feature is active.

Random Play

Pressing the "5" ("RDM") button will play the tracks in random order. Pressing the "5" ("RDM") or "2" ("RPT") buttons will cancel this feature. The "RDM" indicator will appear on the display while this feature is active.

Stop

Press the "STOP" button to stop the CD player operation and return to radio operation. Press the "STOP" button again to return to the CD player at the point where it stopped.

Cancel CD and Play Radio

While in the CD mode, pressing the "AM-FM" button will cancel the CD operation and return to radio operation. To return to the CD mode, press the "STOP" button and the CD will start playing at the point it was interrupted.

Change from CD to Tape

Pressing the "CD-TP" button will switch between playing a tape and a CD when both are inserted. Either "CDIN" or "TPIN" (CD or tape interrupt) will appear on the display, depending on which was interrupted.

Eject

Pressing the "EJECT" button when the ignition switch is in the "ACC" or "ON" positions will eject a CD (and also cassette, if applicable) and switch the audio to the radio if the radio is turned on. The CD will start playing track 1 when reinserted. If the ignition switch is "OFF", the "EJECT" function will still operate, but radio will remain off.

Clock Operation

The clock function of this radio does not have a memory function. If the radio power is interrupted, the clock must be reset. To set the clock, the ignition switch must be in the "ACC" or "ON" position, but the radio can be on or off. To set the hour, press and hold the "RCL" ("TIME SET") button. At the same time, press and hold the "TUNE" ("HR") button until the correct hour appears. To set the minutes, press and hold the "RCL" ("TIME SET") button. At the same time, press and hold the "TUNE" ("MIN") button until the correct minute appears.

CASSETTE TAPE PLAYER CLEANING

If "Cln" (Clean) appears in the display when a cassette tape is inserted, then the cassette tape player needs to be cleaned. It will continue to play cassette tapes, but it should be cleaned to prevent damage to cassette tapes and the cassette tape player mechanisms. See "CASSETTE TAPE PLAYER CARE" later in this section. After cleaning the cassette tape player, press and hold "EJECT" for five seconds to reset the "Cln" indicator. The radio will display "- - " to show that the clean feature has been reset.

CASSETTE TAPE PLAYER CARE

A tape player that is not cleaned regularly is subject to reduced sound quality, ruining the cassette or damaging the mechanism. Tape cassettes that are not properly stored in their cases away from contaminants, direct sunlight and extreme heat, may not operate properly and could cause premature failure of the tape player.

The cassette tape player should be cleaned every 15 hours of operation for optimum performance or at the maximum, every 50 hours to prevent damage to the cassette tape player mechanism. The radio may display "Cln" to indicate that the tape player has operated for 50 hours since the last tape clean reset function was performed. If a reduction in sound quality is noticed, regardless of when the cassette tape player was last cleaned, try playing a different cassette to see if the tape or the tape player is at fault. If there is not a noticeable improvement when the second cassette tape is played, then try cleaning the cassette tape player.

Proper tape player cleaning should be done with a scrubbing action, non-abrasive cleaning cassette. This a wet-type cleaning system that uses a cleaning cassette with pads which scrub the tape head as the hubs of the cleaner cassette turn. To properly clean the cassette tape player, follow the instructions supplied with the cleaning cassette.

If preferred, a non-scrubbing action, wet-type cleaner may be used. This type of cleaner uses a fabric belt to clean the tape head. This type of cleaner cassette will not cause an error, but it may not clean the tape player as thoroughly as the scrubbing type cleaner.

The preferred tape head cleaner is available as part of the Audio System Diagnostic Kit J39916.

Cassettes are subject to wear and sound quality may degrade over time. Always verify that the cassette tape is in good condition and the tape player is clean before obtaining service on the tape player.

THEFT-DETERRENT FEATURE

The theft-deterrent feature for the audio systems with cassette player can be used or ignored. If ignored, the system will function normally. If this feature is used, the system will not be operable if it is stolen or if power loss occurs unless the correct security code is known.

Setting Security Code

The security code is a four-digit numeric code established by the operator. Once set, if the system loses power for any reason, the security code must be re-entered before the system will again operate. Refer to "Unlocking System After Power Loss" later in this section. To enter the security code:

- 1. Write down any four-digit number and keep it in a safe place.
- 2. Turn the ignition switch to the "ACC" or "ON" position.
- 3. Turn the audio system off.
- 4. Press the "1" and "4" buttons together. Hold them down until "- -" appears on the display.

[Important

- The audio system is now ready to accept the security code. A delay of more than 15 seconds between steps will return the system to the radio mode.
- 5. Press the "◀ SEEK ▶" and/or "◀ TUNE ▶" button(s) and "0000" will appear on the display.
- 6. Press the " SEEK" button and hold until the first digit of the code appears, then release the button. The numbers will cycle starting at "1" and running through "0" for each of the digits.
- Press the "SEEK ">" button and hold until the second digit of the code appears, then release the button.
- 8. Press the " TUNE" button and hold until the third digit of the code appears, then release the button.
- Press the "TUNE " button and hold until the fourth digit of the code appears, then release the button.
- 10. Check that the code entered is correct. If it is not, press appropriate button(s) (refer to Steps 6-9) to correct wrong digit(s). When correct, press the "AM-FM" button. "rEP" will appear on the display, which means you must repeat Steps 5-9, then proceed to Step 11.
- 11. Check that the code entered is correct. If it is not, press appropriate button(s) (refer to Steps 6-9) to correct wrong digit(s). When correct, press the "AM-FM" button again. The display will now show "SEC" (secured).

Unlocking System After Power Loss

If electrical power is disrupted to the audio system for any reason while the theft-deterrent feature is in the "SEC" mode (activated), the unit will not operate and "LOC" (locked) will appear on the display when the ignition is turned to "ACC" or "ON." To unlock the unit:

- 1. Press the "◀ SEEK ▶" and/or "◀ TUNE ▶" button(s) and "0000" will appear on the display.
- Press the "
 SEEK" button and hold until the first digit of the code appears. The numbers will cycle starting at "1" and running through "0" for each of the digits.

- 3. Press the "SEEK ▶" button and hold until the second digit of the code appears.
- Press the "
 TUNE" button and hold until the third digit of the code appears.
- 5. Press the "TUNE ▶" button and hold until the fourth digit of the code appears.
- 6. Press the "AM-FM" button after checking that the code displayed matches the code for the system. This time "SEC" should appear on the display. The radio will remain in the secured mode. If an incorrect code is entered, "Err" will appear in the display and steps 1 through 6 must be repeated.

To remove the customer code and deactivate the security feature, press and hold the "1" and "4" buttons together until "SEC" appears on the display. The security code must now be re-entered; repeat Steps 1 through 6. If an incorrect code is entered, "Err" will appear in the display and steps 1 through 6 must be repeated.

Determining Factory Backup Unlocking Code for Secured Radio

If the security function is activated and the radio is disconnected from battery power, the radio will display "LOC." The radio will not operate until the correct code is entered. If the customer code is lost or unavailable, refer to the Dealer Communications System Bulletin regarding unlock procedures, or call Chevrolet Technical Assistance Center.

DIAGNOSIS

AUDIO SYSTEM

For audio system diagnosis, refer to SECTION 8A.

CASSETTE TAPE PLAYER

Tools Required: J 39916 Audio System Diagnostic Kit

Tape Player Motor Speed Test

There is a two minute time period marked in this section of tape for the purpose of checking the cassette tape player motor speed. This portion of the diagnostic tape can be used to verify complaints of abnormal sound from the cassette tape player. In some cases, improper tape motor speed can cause audio abnormalities. If the time taken for this portion of the cassette to play is between one minute and fifty-six seconds and two minutes and one second, then the tape motor speed is within tolerance.

Tape Player Noise Diagnosis (Dead Space)

This portion of the Diagnostic Test Tape can be used for noise diagnosis such as alternator whine, switch pops, etc. which is easily detected during dead space (blank space between programs). This portion of the Diagnostic Test Tape may be used in conjunction with the noise diagnosis in SECTION 8A.

RADIO SPEAKER (WITH CASSETTE TAPE PLAYER ONLY)

Tools Required: J 39916 Audio System Diagnostic Kit

¶ Important

 Always compare the front speakers to front and the rear speakers to rear. Do not compare front speakers to rear speakers, because they could be different speakers or their mounting environment could cause them to sound differently.

Tones are used to test and evaluate coaxial speakers or other complex speaker systems. There are three basic tones that are used. They are as follows: 50 Hz Sine Tone, 500 Hz Warble Tone and a 9 kHz Spectral Tone

Bass Test (50 Hz Sine Tone)

The 50 Hz tone is used to evaluate the bass response of an audio system. The tone is also helpful in evaluating audio systems which have separate subwoofer amplifiers and speakers.

Midrange Speaker Test (500 Hz Warble Tone)

The 500 Hz warble tone is used for the evaluation of midrange speaker response. This tone is called a warble tone because it produces a warble sound.

Tweeter Test (9 kHz Spectral Tone)

The 9 kHz spectral tone is used for tweeter or high frequency evaluation. This tone is a section of frequencies of equal amplitudes ranging from 8.5 kHz - 9.5 kHz. This tone sounds like crickets chirping.

All Speaker Test

The combination tone can be used for numerous audio problems such as distorted or no sound from speaker(s). When using the combination tone, comparative AC voltage measurements can be made on the speaker terminals, provided the fade and balance controls are in the detent position. With these voltage measurements, a determination can be made in the diagnosis of a speaker or amplifier.

Speaker Buzz and Rattle Test (50 Hz to 8 kHz Swept Sine)

The next portion of the tape can be used to diagnose speaker and grill rattles. The first test is two tones played back to back. The second test is a variable frequency tone, but frequency change is at a much slower rate. Both tests can be used to repair a speaker rattle or buzz. If the problem has already been isolated, the fade and balance controls can be set to the proper location and the test tones can be played in the specific problem area.

ON-VEHICLE SERVICE

RADIO

Figures 4, 5 and 6

←→ Remove or Disconnect

- 1. Negative (-) battery cable.
- 2. Heater control knobs from heater control unit.
- 3. Heater control unit face plate from center trim bezel by pulling straight out (Figure 4).
- 4. Twist off heater control unit face plate illumination bulb.
- Ashtray from track by pushing down on retainer and pulling out.
- 6. Four screws and center trim bezel from instrument panel (Figure 4).
- 7. Four screws and pull radio from instrument panel (Figure 5).
- 8. Antenna and radio electrical connectors from radio (Figure 6).
- 9. Radio from vehicle.
- Four screws and side mounting brackets from radio (if required).

++ Install or Connect

- 1. Side mounting brackets to radio (if removed); secure with four screws.
- 2. Radio electrical and antenna connectors to radio.

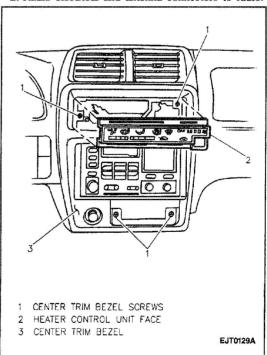


Figure 4—Removing Center Trim Bezel

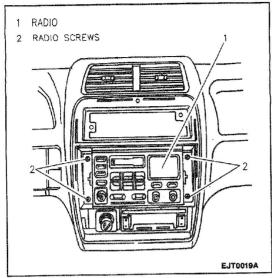


Figure 5-Radio Mounting Screws

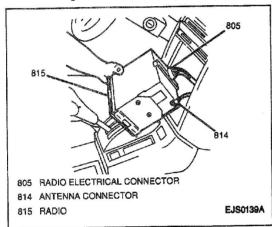


Figure 6-Radio Electrical and Antenna Connectors

- 3. Radio to instrument panel; secure with four screws.
- Center trim bezel to instrument panel; secure with four screws.
- 5. Ashtray to track; push in until retainer engages.
- Heater control unit face plate to center trim bezel; push in until it snaps in place.
- 7. Heater control knobs to heater controls.
- 8. Negative (-) battery cable.

Tighten

• Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N·m (11 lbs. ft.).

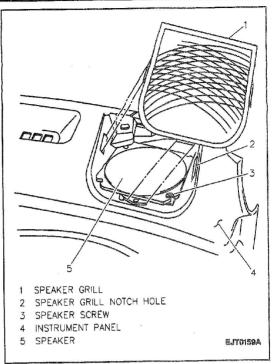


Figure 7-Front Speaker

SPEAKERS

Front Speakers

Figure 7

←→ Remove or Disconnect

- 1. Negative (-) battery cable.
- Front speaker grill from instrument panel by pulling straight out with flat-bladed screwdriver (Figure 7).
- One screw and front speaker from instrument panel.
- Front speaker electrical connector and remove speaker from vehicle.

→+ Install or Connect

- 1. Front speaker to vehicle; connect front speaker electrical connector.
- Front speaker to instrument panel; secure with one screw.
- 3. Front speaker grill to instrument panel.
- 4. Negative (-) battery cable.

1 Tighten

 Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N·m (11 lbs. ft.).

Rear Speakers

2-Door Models

Figure 8

←→ Remove or Disconnect

- 1. Negative (-) battery cable.
- 2. One screw from front seat belt trim bezel.
- 3. Pull rear quarter interior trim panel from vehicle, disengaging plastic clips.
- 4. Three screws and rear speaker from body (Figure 8).
- Rear speaker electrical connector and remove speaker from vehicle.

→+ Install or Connect

- Rear speaker to vehicle; connect rear speaker electrical connector.
- 2. Rear speaker to body; secure with three screws.
- 3. Rear quarter interior trim panel to vehicle; press into place, engaging plastic clips.
- Front seat belt trim bezel to vehicle; secure with one screw.
- 5. Negative (-) battery cable.

হ্ম Tighten

 Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N·m (11 lbs. ft.).

Rear Speakers

4-Door Models

Figure 9

Remove or Disconnect

- 1. Negative (-) battery cable.
- Slightly pull out rear door weatherstrip over rear quarter interior trim panel.
- Pull rear quarter interior trim panel from vehicle, disengaging plastic clips.
- 4. Three screws and rear speaker from body (Figure 9).
- 5. Rear speaker electrical connector and remove speaker from vehicle.

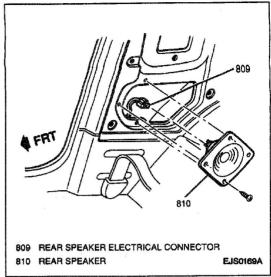


Figure 8-Rear Speaker (2-Door)

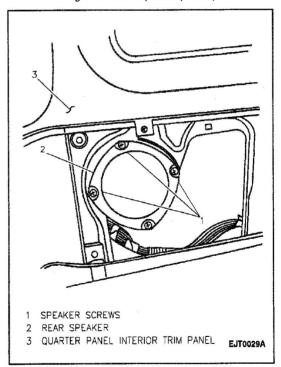


Figure 9-Rear Speaker (4-Door)

++ Install or Connect

- 1. Rear speaker to vehicle; connect rear speaker electrical connector.
- 2. Rear speaker to body; secure with three screws.
- Rear quarter interior trim panel to vehicle; press into place, engaging plastic clips.

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- 4. Reinstall rear door weatherstrip.
- 5. Negative (-) battery cable.

ANTENNA

Figures 10 and 11

←→ Remove or Disconnect

- 1. Negative battery (-) cable.
- 2. Radio from instrument panel. Refer to "RADIO" earlier in this section.
- Attach a piece of mechanic's wire to antenna cable to aid in the removal and installation of the cable through the A-pillar and instrument panel.
- 4. Antenna mast screws.
- 5. Antenna mast from vehicle, guiding mechanic's wire attached to antenna cable through A-pillar (Figure 10).
- Mechanic's wire from antenna cable. Leave mechanic's wire in A-pillar to aid in antenna installation.

→+ Install or Connect

- 1. Mechanic's wire to antenna cable.
- 2. Guide antenna cable and mast through A-pillar with aid of mechanic's wire (Figure 11).
- 3. Antenna mast screws.
- 4. Remove mechanic's wire from antenna cable.
- 5. Radio to instrument panel.
- 6. Negative (-) battery cable.

Q Tighten

 Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N·m (11 lbs. ft.).

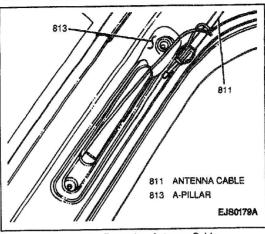


Figure 10-Removing Antenna Cable

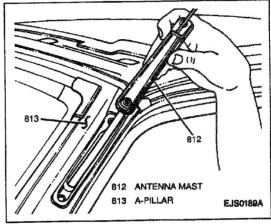


Figure 11-Installing Antenna

SPECIFICATIONS

FASTENER TORQUES