In-Car Entertainment

Geluidsinstallatie in voertuig

Equipement de sonorisation automobile

Stereoanlage

Antenna dell'autoradio

Equipo de sonido

Sistema audio

LAND-ROVER

In-Car Entertainment

Publication Part No. LRL 0417ENG

Contents

Radio Cassette Audio System

SOUND CONTROLS

ICE0212   2
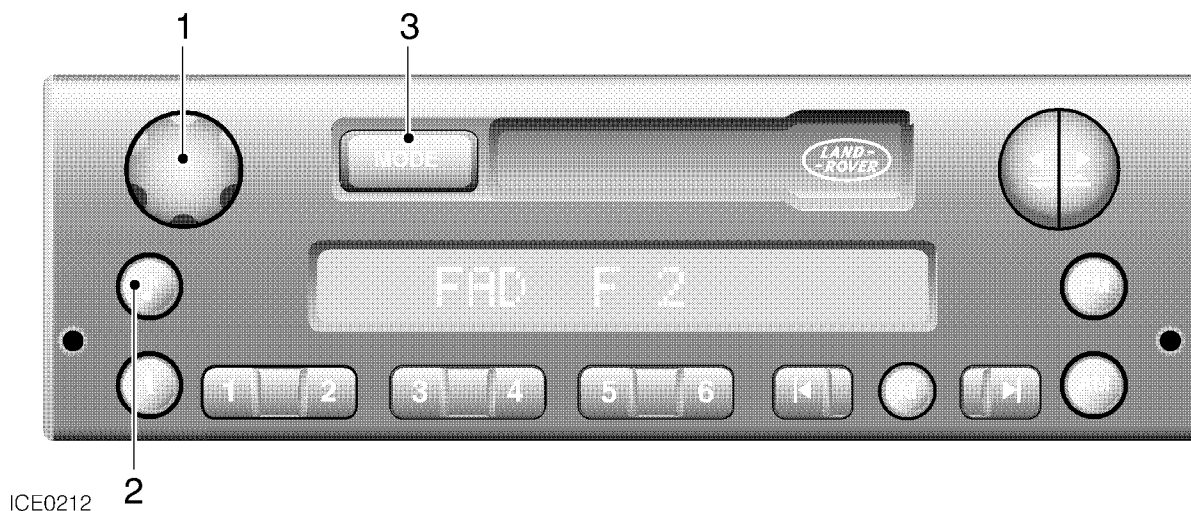
1. On/off and volume control

Press to switch on (display briefly shows 'CODE ENABLED'). Press again to switch off.

Rotate steadily to right or left to adjust the volume.

The volume can also be adjusted using the remote switches* on the steering wheel (see *'Owner's handbook'*).

NOTE: *If you have a car telephone with a mute signal output connected to the stereo system, radio, tape or CD play automatically mutes when the telephone is in use.*

2. Audio selection button

Press one or more times to select bass, treble, fader or balance (display confirms selection), as described below.

Press and hold for at least two seconds to reset all audio settings to their default values (display shows 'FLAT').

Bass: Press once, then rotate the volume control to the left or right to reduce or increase bass response. The display shows:

- 'BASS -6' = minimum bass
- 'BASS 0' = normal bass
- 'BASS +6' = maximum bass

Treble: Press twice, then rotate the volume control to the left or right to reduce or increase treble response. The display shows:

- 'TREB -6' = minimum treble
- 'TREB 0' = normal treble
- 'TREB +6' = maximum treble

Fader: Press three times, then rotate the volume control to the left or right to adjust the balance between front and rear speakers. The display shows:

- 'FADE F 6' = max sound from FRONT
- 'FADE 0' = equal balance
- 'FADE R 6' = max sound from REAR

Balance: Press four times, then rotate the volume control to the left or right to adjust the balance between left and right speakers. The display shows:

- 'BAL R 6' = max sound from RIGHT
- 'BAL 0'= equal balance
- 'BAL L 6' = max sound from LEFT

NOTE: *After approximately 8 seconds without further adjustment, the audio selection mode is cancelled automatically.*

3. Mode selector (MODE)

Press briefly to select radio, tape or CD play.

Press to change to radio reception during tape or CD play. Tape or CD play will stop and the radio automatically selects the frequency and waveband last in use.

NOTE: The remote switches * *on the steering wheel can also be used to change to or from radio, tape or CD play (see 'Owner's handbook').*

Radio

RADIO CONTROLS

ICE 0208   9   8   6   7   6   5 4
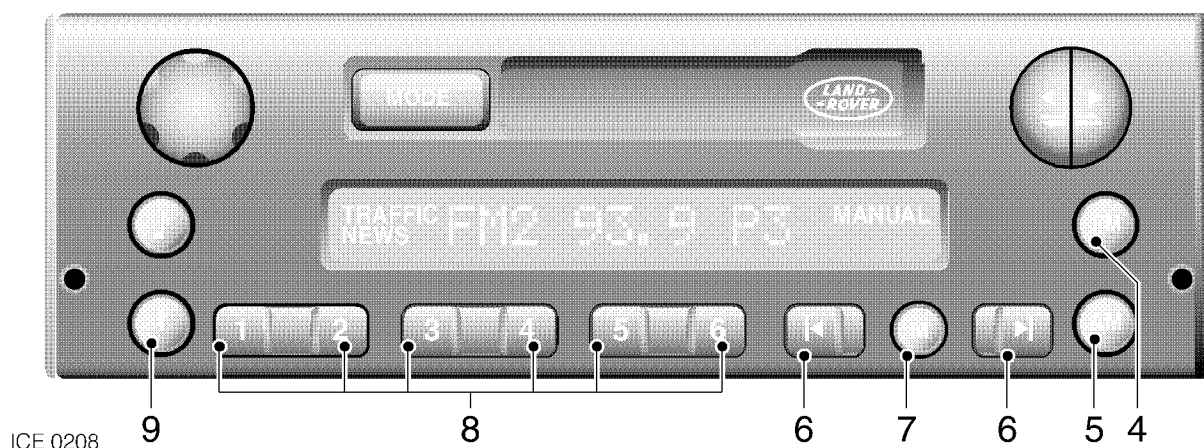
4. FM waveband selector
Press briefly once or twice to select FM frequencies. There are two FM bands (FM1 and FM2), both have the same tuning range and six frequencies can be stored on each one, using the pre-set buttons (see *'Programming the pre-sets'*, *page 8*).

Press and hold to activate auto-store (on FM2 only - see *'AUTO-STORE', page 9*).

5. AM waveband selector
Press briefly to select one of the three AM bands (MW1, MW2 and LW). Six frequencies can be stored on each one, using the pre-set buttons (see *'Programming the pre-sets', page 8*).

Press and hold to activate auto-store (on MW2 only - see *'AUTO-STORE', page 9*).

6. Tuning buttons
Briefly press either button to search up or down the frequency range (see *'RADIO TUNING', page 7*).

7. Manual tuning selector
Press to select manual tuning mode ('MANUAL' is displayed) - use in conjunction with the tuning buttons (see *'RADIO TUNING', page 7*). Press again to return to automatic tuning.

The frequency can also be selected using the remote switches on the steering wheel (see *'Owner's handbook'*).

NOTE: Tuning defaults to automatic mode, if unused for more than 8 seconds.

8. Pre-set buttons
Use to store up to 6 radio stations on each waveband.

Press briefly to select a stored frequency.

Press and hold (for approximately 2 seconds) to store a frequency on a pre-set (see *'Programming the pre-sets', page 8*).

9. Traffic and news information
Press briefly to switch on (or switch off) traffic information mode - FM waveband only (see *'Selecting traffic information', page 10*).
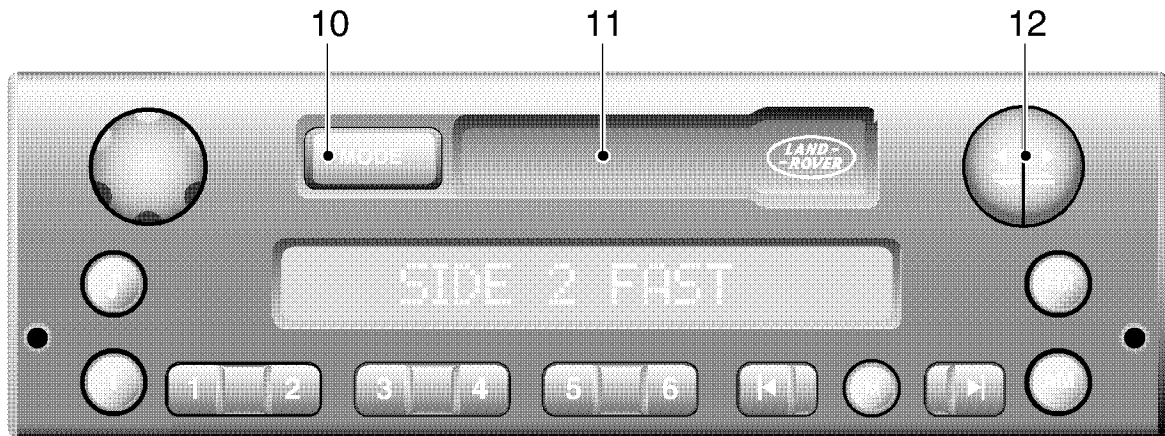
Press and hold for approximately 2 seconds to switch on (or switch off) news mode - FM waveband only (see *'Selecting news information', page 10*).

Press briefly to return to normal radio, tape or CD reception during a traffic or news announcement.

NOTE: Both traffic and news information can be operational at the same time.

Cassette Player

CASSETTE PLAYER CONTROLS

ICE0209

10. Mode selector (MODE)
Press briefly to change to radio or CD operation during tape play. The cassette player remains in stand-by mode until the button is pressed again to return to tape play.

11. Cassette compartment
Insert the tape with the open side to the right and push in carefully. The radio mutes and tape play starts immediately (display shows 'SIDE 1').

At the end of either side of the tape, play will automatically continue in the opposite direction.

If the set is switched off during tape play, the cassette player remains in stand-by mode. Play resumes when the set is switched on again.

NOTE: If a metal type cassette is loaded, the tape player automatically adjusts to the equalisation required for metal and any other high bias tape.

12. Fast forward/rewind/reverse and eject buttons
During tape winding, 'FAST' shows in the display.

- To forward wind, press the right hand button.

- To rewind, press the left hand button.

- To stop tape winding, lightly press the remaining (unlocked) button. Tape play will automatically resume.

- To reverse the direction of tape play, lightly press both buttons simultaneously.

- To eject the tape, FULLY press both buttons simultaneously. The unit returns to radio mode, selecting the waveband and frequency last in use.

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Compact Disc Player

COMPACT DISC PLAYER* CONTROLS

13
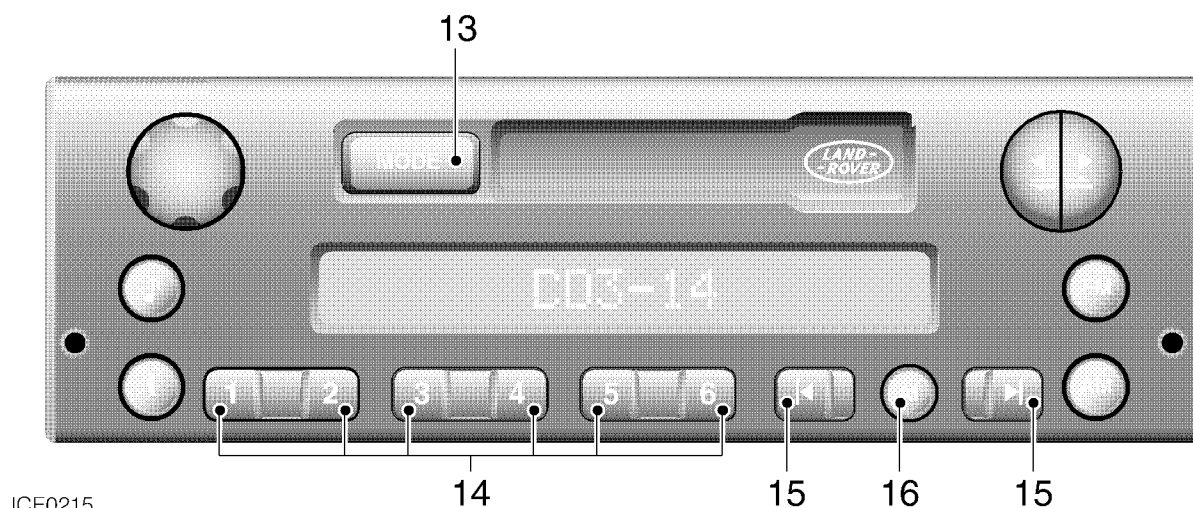
ICE0215

14   15   16   15

13. Mode selector (MODE)

Press to select CD play, or to change to radio or tape operation during CD play. With CD selected, the display shows the disc and track number ('CD3 - 14'). If a magazine has not been inserted into the autochanger, 'NO MAGAZINE' is displayed, if an empty magazine has been inserted, 'NO DISCS' is displayed.

14. Disc selection buttons (1-6)

Press the appropriate button to select the desired disc. Playback will start from the beginning of that disc. If an empty compartment is selected, a a faulty CD is inserted or a CD is inserted the wrong way up, the display shows 'NO DISC' and the next available disc is selected instead.

15. Track search buttons

Skip: Briefly press the appropriate button to skip to the beginning of the next track, or return to the start of the current track (the display shows disc and track numbers). Press the search buttons as many times as necessary to reach the desired track.

NOTE: If either button is pressed and held (for more than 1 second), the CD player performs the 'search' function (forward or back) until the button is released.

Search: Press the Manual mode button (16), then press and hold the appropriate search button to move forward or backward (display shows '>>' or '<<') through the track at a greatly increased play speed (volume mutes). When the search key is released, CD playback starts at the current position of the selected CD/track. The CD search mode remains active.

The same operation can be carried out, without the need to press the manual mode button (16), by pressing and holding the appropriate search button for more than 1 second.

NOTE: The compact disc player controls will operate only with the optional CD changer unit.

NOTE: Skip, search and mode selection can be operated using the remote switches on the steering wheel (see 'Owner's handbook').*

6

Radio Tuning

RADIO TUNING
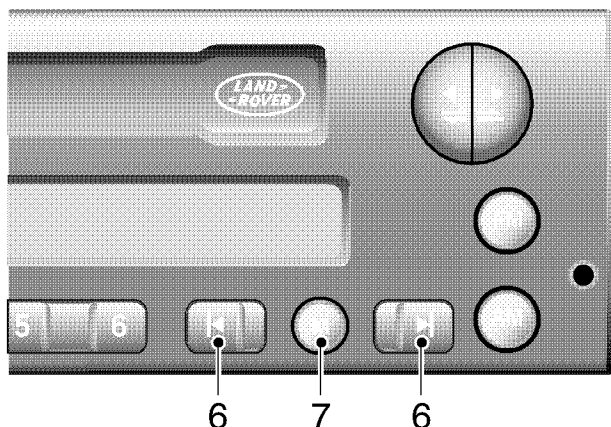
ICE0213

Manual tuning
If you know the frequency of the radio station you are seeking, or you need to select a radio station that is too weak to be found by automatic tuning, use manual tuning, as follows:

Select the desired waveband (FM or AM), then press the manual tuning button (7) ('MANUAL' appears in the display). By pressing either tuning button (6), the frequency changes (either up or down) in steps of 0.1 MHz for FM, or 9 kHz for MW, or 1 kHz for LW.

Fast manual tuning
By keeping either tuning button depressed, the waveband is scanned rapidly up or down until the button is released.

Automatic tuning
Select the required waveband (FM or AM), then briefly press one of the tuning buttons (6).

The radio automatically searches the frequency range (either up or down depending upon which of the tuning buttons is pressed) looking for a radio station of acceptable strength. Once a suitable station is found, the search stops unless you choose to continue by pressing the tuning button again.

The search can be stopped at any time, by pressing any pre-set button.

NOTE: If you have a car telephone with a mute signal output connected to the radio, the radio automatically mutes when the telephone is in use.

Mono/Stereo
Whenever the FM waveband is selected, the radio automatically reproduces stereo sound, provided a suitable signal is available. However, if a signal becomes too weak for good stereo reception, only mono sound is produced until the signal strengthens sufficiently for stereo sound reproduction.

Radio Tuning

RADIO PRE-SET BUTTONS

ICE0211
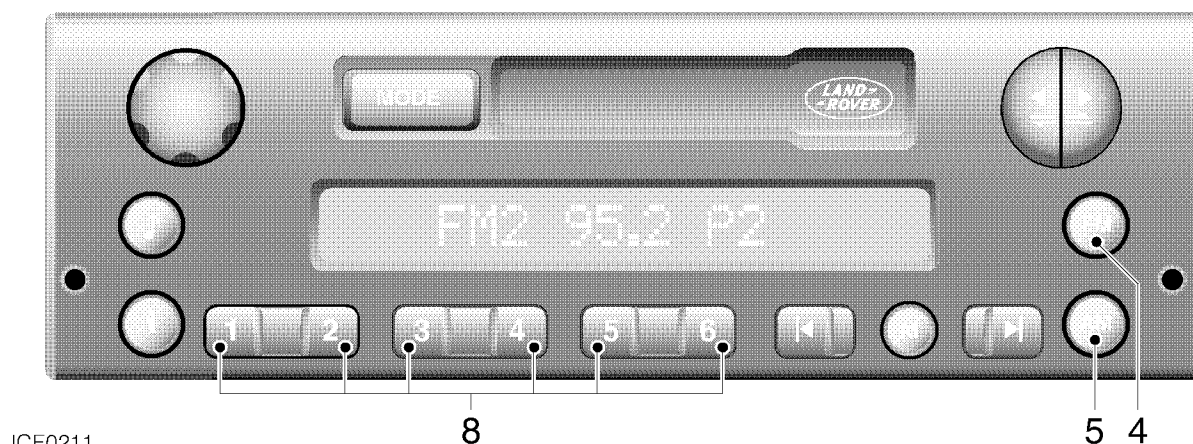
The six pre-set buttons (8) can be used to manually store up to twelve FM stations (six each on FM1 and FM2), twelve MW stations (six each on MW1 and MW2), and six LW stations.

Programming the pre-sets

- Select the required waveband (FM1, FM2, MW1, MW2 or LW).

- Tune to the desired frequency using either automatic or manual tuning (see *'RADIO TUNING', page 7*).

- Press and hold one of the pre-set buttons. The radio will mute while the frequency you have chosen is stored on the pre-set. The display briefly shows the frequency and station name (where appropriate) of the radio station previously stored on the pre-set, and then the new frequency (and station name).

- Release the pre-set as soon as radio sound is restored and the new frequency details are displayed.

NOTE: Once the pre-sets have been programmed, they will be retained by the unit until either; they are re-programmed, or power to the audio unit is disturbed (vehicle battery disconnection, for example).

Operating the pre-sets

Once the pre-set buttons have been programmed, operation is simple; select the desired waveband, then press the pre-set button of your choice.

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Radio Tuning

AUTO-STORE

ICE0210
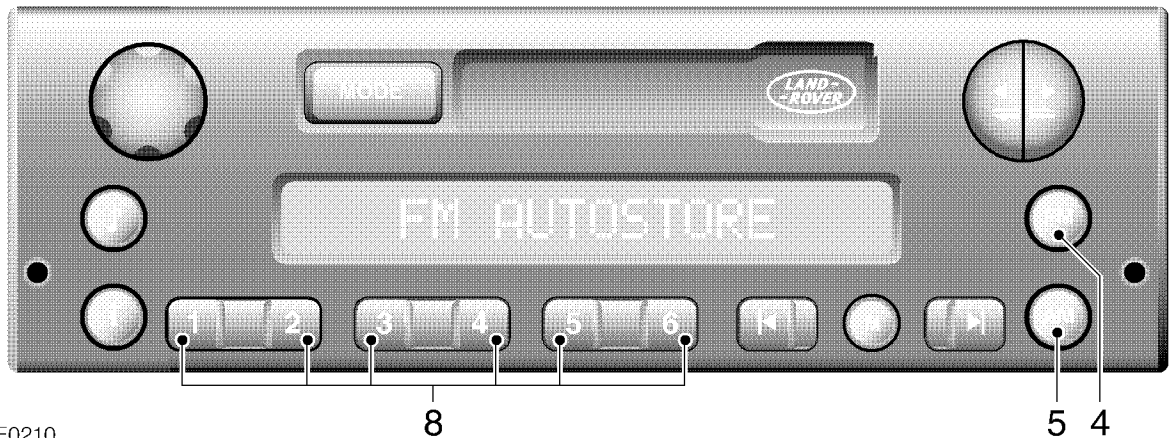
Auto-store enables you to rapidly tune and store the strongest FM and MW radio signals in a single operation. This facility is particularly useful if you are in an unfamiliar area and have little knowledge of local transmitter frequencies.

Programming auto-store

Press and hold the appropriate waveband selection button (4 or 5) - the radio mutes and the display shows either 'FM AUTOSTORE' or 'MW AUTOSTORE').

Auto-store scans the waveband to find the six strongest frequencies and then stores them on either the FM2 or MW2 pre-set buttons in order of signal strength. Radio sound is restored once the operation is complete.

If auto-store is unable to find six strong stations, the remaining pre-sets are not used (display shows 'NO STATION').

NOTE: Auto-store overwrites any stations already stored on the FM2 or MW2 pre-set buttons.

NOTE: If FM auto-store is programmed with the traffic facility switched on, then programming will be limited to those stations capable of providing traffic information only. For this reason, it is recommended that the traffic information facility is switched off before the pre-set stations are stored and before auto-store is programmed.

Operating auto-store

To tune to one of the auto-store frequencies, select FM2 or MW2, then press the pre-set button of your choice.

Traffic & News Information

INFORMATION BROADCASTS

ICE0216   9

On the FM waveband, the RDS facility enables your radio to receive traffic and news information broadcasts from local radio stations that are linked to the same network as the station to which it is tuned.

Traffic and news information broadcasts can be selected by pressing the information button (9).

Once selected any available traffic and news information broadcasts are then received automatically as and when they occur (even if you are listening to cassette tapes or CDs).

Selecting traffic information
BRIEFLY press the information button - the word 'TRAFFIC' illuminates in the display.

During traffic announcements the display flashes 'TRAFFIC' alternately with the name of the radio station providing the information.

If the radio is tuned to a weak FM signal or a radio station that cannot provide traffic information, the display briefly shows 'NO TRAFFIC', then the message 'STATION SEEK' flashes in the display while the radio searches the waveband. It then tunes to a radio station that does provide traffic information broadcasts.

In remote areas, it may be impossible to find a traffic information station. The radio will search the waveband twice; if a station cannot be found, the radio displays 'NO TRAFFIC' and returns to the station to which it was previously tuned.

NOTE: When traffic information is switched on, occasional, and very brief, muting of the radio may occur while the set searches for traffic broadcasts. For this reason, it is recommended that traffic information is switched off when not needed.

Selecting news information
Press and hold the information button for approximately 2 seconds - the word 'NEWS' illuminates in the display.

During news broadcasts the display flashes 'NEWS' alternately with the name of the radio station providing the news information.

NOTE: Both traffic and news information can be selected at the same time. However, the radio gives priority to traffic information.

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Traffic & News Information

Switching off information broadcasts

Traffic information: To switch off traffic information, briefly press the information button ('TRAFFIC' disappears from the display). This action will prevent traffic information broadcasts from being received until the button is pressed again.

News information: To switch off news information, press and hold the information button for approximately 2 seconds ('NEWS' disappears from the display). This action will prevent future news broadcasts from being received until the feature is reselected.

Unwanted information broadcasts can be aborted by similarly pressing the information button. In this case, because the feature is being disabled DURING an information broadcast, disablement is only temporary - the feature will return as soon as the next traffic or news information bulletin is broadcast.

Information broadcasts during tape or CD play

When the radio is in either traffic or news information mode, CD or tape play will be interrupted by information broadcasts automatically as and when they occur.

The display will alternatively flash the station name and 'TRAFFIC' or 'NEWS'. At the end of the broadcast, tape or CD play will resume.

Volume for Traffic and News announcements

The volume of traffic and news information broadcasts can be set independently from the volume required for other audio output (e.g. radio, cassette and CD), as follows:

Wait for a traffic or news announcement, then during the broadcast, adjust the volume to the desired level (this is likely to be greater than that required for other audio output). Once this volume has been set, it will be memorised by the audio unit and replicated automatically next time a traffic or news announcement is broadcast.

Note that further adjustments to the volume can be made during any subsequent traffic or news announcements.

Emergency alarm announcement

Emergency announcements cannot be activated or deactivated by the user. If an emergency traffic or news announcement is transmitted ('ALARM' appears in the display), all other audio functions will be overridden.

Radio Reception

ICE 0052A
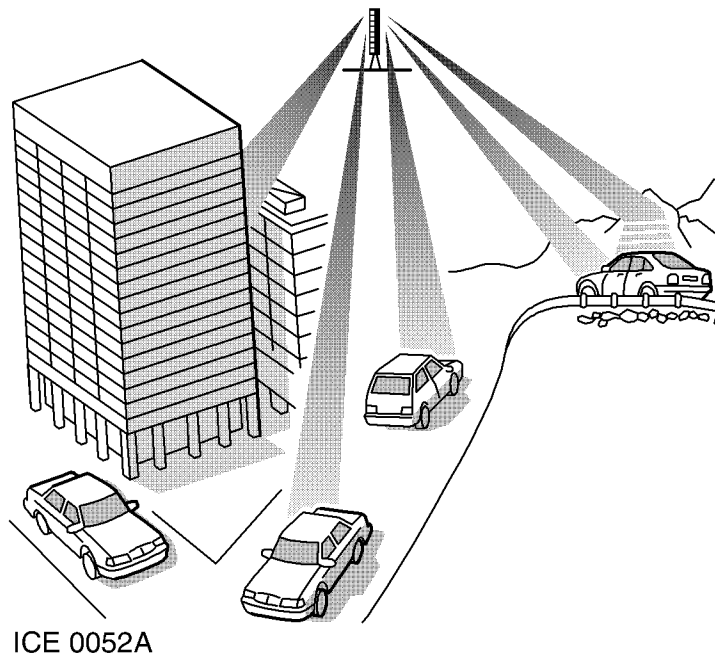
RADIO RECEPTION

Distortion, interference and lack of signal clarity, are often attributed to a fault in the radio - this is rarely the case.

Problems of this kind are usually caused by phenomena such as atmospheric conditions, signal strength, hilly terrain, tall buildings, bridges and even electrical interference from power lines.

Please remember: A car radio receives signals while the vehicle is in motion (unlike a domestic set) - constantly changing direction and moving away from, or nearer to, the transmitter whilst negotiating terrain with widely differing reception characteristics. Some interference is to be expected from time to time.

FM transmitters can only broadcast over a limited range and good, clear signals will only be received in the immediate area of the transmitter. When travelling, it may be necessary to re-tune the radio from time to time, to offset the effects of moving from one transmitter area to another.

While RDS automatic retuning eases this problem, some manual retuning may still be needed (especially for local stations) in areas of weak reception.

The broadcast range for good stereo reception (usually within a 50 to 65 km radius of the transmitter) is noticeably less than it is for mono.

FM Signals (like light waves) travel in a straight line, so large obstacles, such as tall buildings, can shield the vehicle from the signal causing distortion or loss of reception (known as dead spots).

Distortion can also occur if FM signals received directly from the transmitter mix with signals which have been reflected by obstructions such as mountains, hills and tall buildings (this is known as multi-path distortion).

Care of Cassette Player and Tapes
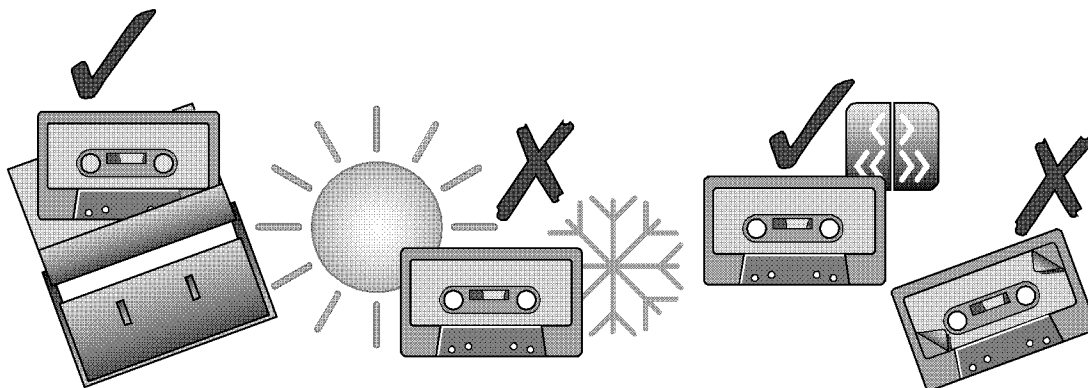
ICE 0054

CARE OF CASSETTE PLAYER AND TAPES

Use only good quality tapes with a maximum capacity of ninety minutes (C90). Check that both spools rotate freely and remove any loose turns at the start of the tape by winding one spool with a pen or pencil.

Cassette player

In use, the tape head accumulates dust and contamination, gradually impairing sound reproduction and, in extreme cases, reducing volume too. To combat contamination, clean the tape head periodically (after approximately every 20 hours playing time) by passing a wet type cleaning cassette through the player.

If a fault with the tape is detected (e.g. if there is a tape jam), 'TAPE ERROR' appears in the display - eject the tape and if the problem persists and the tape seems in good condition, consult your dealer.

NOTE: Because your cassette player is fitted with auto reverse, the cleaning cassette must be played in both directions.

The tape will require more frequent cleaning in winter, as contamination is greater in conditions of low temperature and increased humidity. However, the use of good quality tapes keeps the build up to a minimum.

Cassette tapes

- Always store cassettes in their boxes when not in use.

- Never leave cassettes in the vehicle during extremes of temperature. In particular, do not leave tapes in direct sunlight as they may warp and become unusable, or jam the tape player mechanism.

- Fast forward, or rewind tapes every 8 to 10 plays to prevent them from becoming too tightly wound.

- Ensure that labels attached to the cassette are glued firmly in place.

- DO NOT leave tapes in the cassette player for more than a few hours in very cold or humid conditions - the oxides on the tape surface may contaminate the cassette player mechanism.
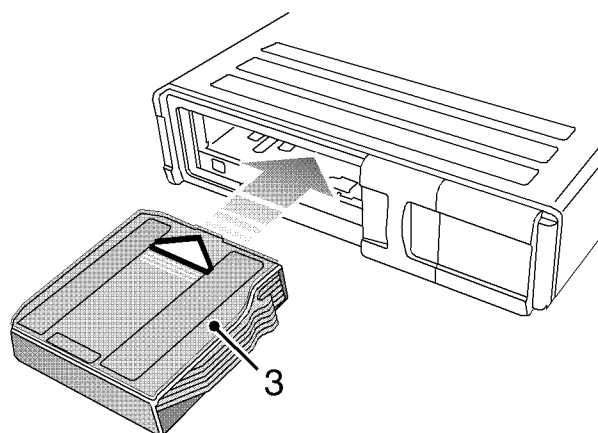
NOTE: After continuous playing, cassettes may become hot to touch. This is normal and will not harm good quality tape.

13

CD Changer Unit

ICE0096
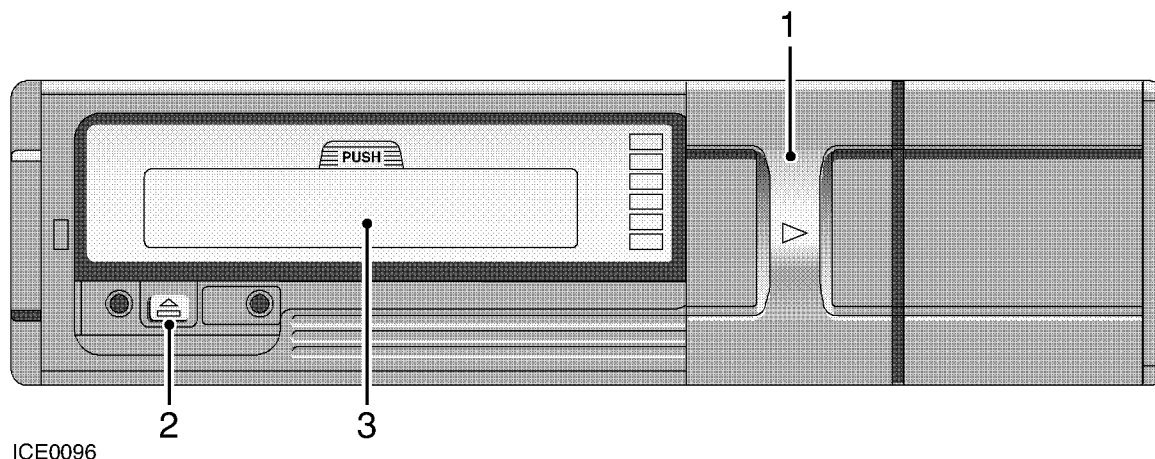
COMPACT DISC CHANGER UNIT*

Removing/inserting the magazine

ICE0097A

Fully open the sliding cover (1) to insert or remove the magazine. Keep the cover closed at all other times to prevent dust and dirt from entering the changer unit.

Press the button (2) to eject the magazine.

Insert the magazine (3) in the direction of the arrow marked on the magazine casing and push it fully into the changer. Finally, close the sliding cover. If the audio system is operating when the magazine is inserted, 'CD CHECK' is displayed while the autochanger checks the loaded CDs.

Loading & unloading the magazine

ICE0043
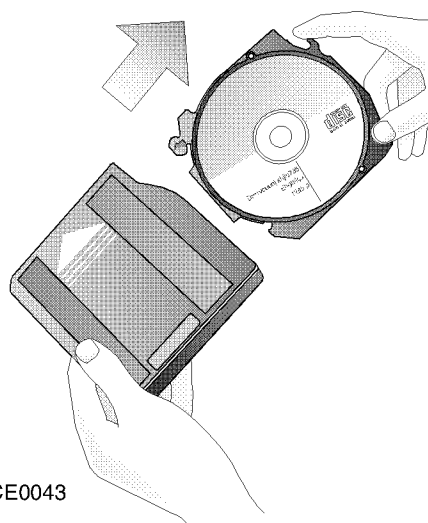
Holding the magazine as shown (arrow on magazine casing uppermost), remove each CD tray in turn.

Place a disc (label side uppermost) onto each tray - holding ONLY the outside edge and centre hole of the disc. Load only one disc in each tray.

Correctly align the tray with the parallel slots on each side of the magazine and slide the tray into the magazine.

NOTE: If a CD is inserted the wrong way up, or a faulty disc is inserted, 'NO DISC' will be displayed on the audio unit.

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CD Changer Unit

To unload the magazine, hold the magazine with the arrow uppermost, pull out each tray in turn, holding the tray securely so as not to drop the disc. Unload one disc at a time and handle only the edge and centre of the disc.
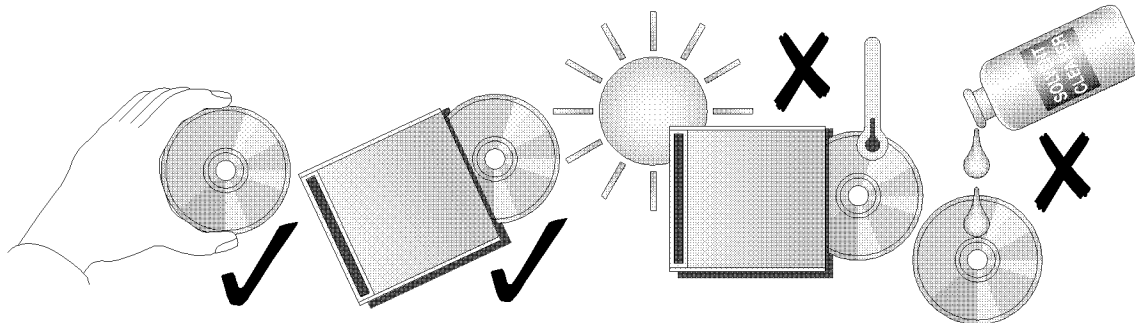
Important:
- Use standard 12cm CDs only.

- DO NOT use irregularly shaped or damaged CDs - these may damage the compact disc changer.

- 8cm CD singles must NOT be used, even if a CD adaptor is fitted.

- The CD autochanger should not be used in temperatures outside the range -10°C to +60°C.

    NOTE: If the CD autochanger reaches temperatures higher than recommended for normal use, 'CD HIGH TEMP' appears in the audio unit display. If this occurs, stop using the CD player, eject the magazine and allow the autochanger to cool down. If the problem persists, consult your dealer.

- The CD autochanger should only be used as described - any other application or method of use could result in the user being exposed to invisible laser radiation exceeding the limit of laser class 1.

NOTE: Additional magazines can be obtained from a Land Rover dealer.

ICE 0022

CARING FOR COMPACT DISCS

Dirt, dust, condensation and heat can damage discs. Always observe the following precautions:

NEVER touch the horizontal playing surface (the unlabelled side) of a disc! Handle discs by holding the outer edges, or the edge of the central hole and the outer edge, between finger and thumb.

ALWAYS return discs to their boxes after use (dirt detracts from the sound quality).

NEVER leave the disc or the box exposed to excessive heat or direct sunlight!

NEVER use a solvent or abrasive cleaner! Dust or dirt should be removed from the playing surface by wiping with a clean, dry, lint-free cloth always wipe in a straight line from the centre to the edge of the disc!

Security Code

SECURITY CODE INFORMATION

To reduce the risk of theft, your audio unit was programmed with a four digit security code before the vehicle left the factory. Once activated, this code prevents the unit from functioning if it is illegally removed from the vehicle. There are 10,000 different codes - making your audio unit valueless to a thief unless he has the correct one. In addition, each unit is further protected by a time delay penalty system that effectively defies even the most systematic attempt to break the code.

NOTE: If an incorrect code is entered, a one minute time delay is imposed before a second code can be attempted. Each time a wrong code is entered, the time delay doubles (2 min, 4 min, 8 min, etc.) making theft a very unattractive proposition.

Your vehicle was supplied with a Security Information card. This card contains a record of the four digit security code, as well as the audio unit's unique serial number. The serial number is also stamped into the metal side of the unit and, in the event of theft, would confirm proof of ownership.

NOTE: A spare Security Information card is supplied inside the back cover of the Service Portfolio in the literature pack. For further information on the Security Information card, consult the Owner's Handbook.

It is VERY IMPORTANT that you keep a safe record of the security code and heed the following advice:

- NEVER keep a record of the security code in the vehicle.
- If you lose your code number, contact a Land Rover dealer, who will be able to obtain this information for you.

Security Code

ENTERING THE SECURITY CODE

ICE0214

6
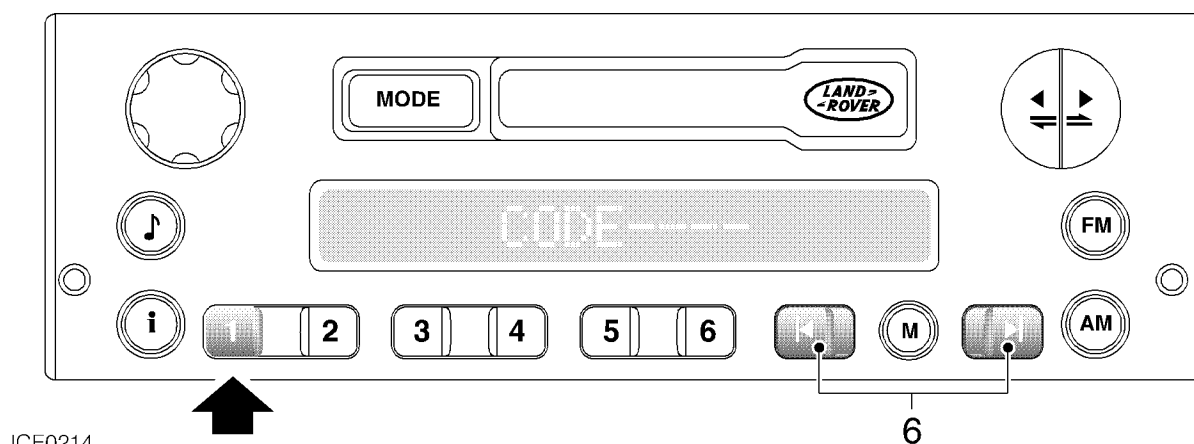
If power to the audio unit has been interrupted (car battery disconnected, for example), the code MUST be entered before the set will operate. Enter the code as follows:

- Switch on the radio ('CODE' appears in the display). Press pre-set button 1 (arrowed in illustration).

- Press either the up or down tuning button (6) until the first digit of the security code appears in the display. Press pre-set 1 to store the first digit in the unit's memory.

- Use either tuning button to select the second digit of the code (until the correct digit appears in the display). Press pre-set 1 to store the second digit.

- Select the third digit, again using the tuning buttons (until the correct digit is displayed). Press pre-set 1 to store the third digit.

- Select the final digit (the display now shows the full four digit code). Press pre-set 1 to store the final digit.

If the correct code has been selected the radio will commence operating immediately.

NOTE: If an incorrect code has been entered, the first time delay period commences. During the delay period, 'CODE WAIT' appears in the display - DO NOT switch off. At the end of the delay period, 'CODE' reappears in the display and you can then enter the correct code. Remember; the time delay period doubles each time an incorrect code is entered.