Auto Store

Traffic

FM

RDS

In-Car Entertainment

Geluidsinstallatie in voertuig

Equipement de sonorisation automobile

Stereoanlage

Antenna dell'autoradio

Equipo de sonido

Sistema audio

Compact Disc

Freelander

LAND-ROVER

The audio equipment fitted to your car has been carefully chosen to add to your motoring enjoyment.

Whether you drive for business, or purely for pleasure, we want you to enjoy using your audio equipment, so please take a little time to read these instructions and find out how to get the very best In-Car Entertainment!

In-Car Entertainment

Contents

R660

DETACHABLE KEYBOARD

For added theft protection the R660 radio/cassette player has a detachable keyboard.
ALWAYS TAKE THE KEYBOARD WITH YOU WHEN YOU LEAVE THE VEHICLE.
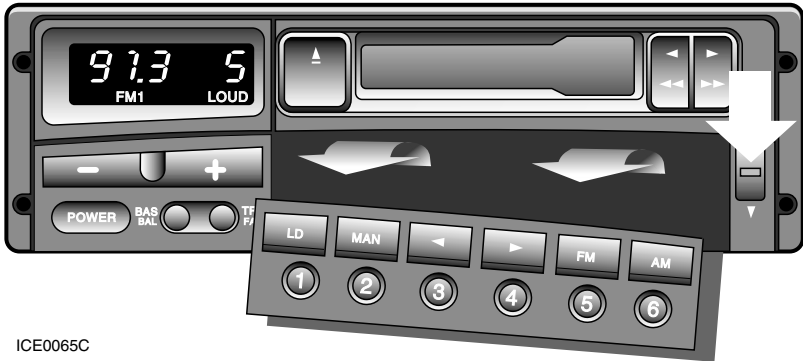
ICE0065C

Removing the keyboard
Push the release key down (arrowed in illustration) to remove the keyboard.
ALWAYS protect the keyboard from dirt and damage by keeping it in its protective case.
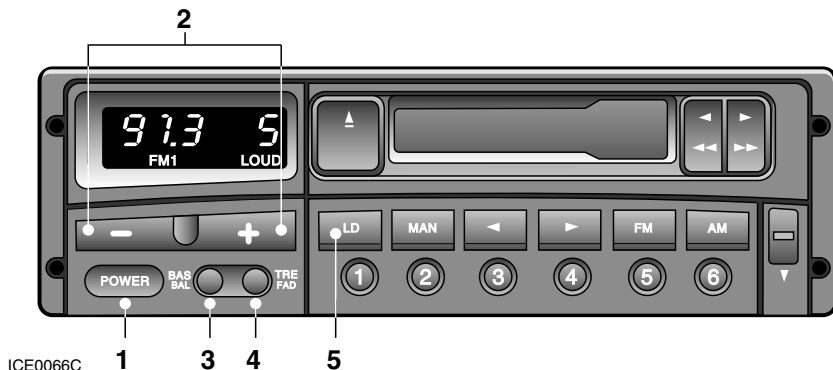
Replacing the keyboard
Place the left side of the keyboard in position, then press the right hand side fully home, ensuring that it is locked in position.

R660

ICE0066C **1**   **3** **4**   **5**

SOUND CONTROLS

1. On/off switch
Press to switch on (display illuminates).
Press again to switch off.

2. Volume control
Press the '+' symbol to increase and the '-' symbol to decrease the volume.

3. Bass and balance control
Press once for bass, then use the volume control to adjust the bass response. The display shows:
　'bAS - 4' = minimum bass
　'bAS 0' = normal bass
　'bAS + 4' = maximum bass

Press twice for balance, then use the volume control to adjust the balance between the right and left speakers. The display shows:
　'baL 0 - 9' = max. sound from RIGHT
　'baL 9 - 9' = equal balance
　'baL 9 - 0' = max. sound from LEFT

4. Treble and fader control
Press once for treble, then use the volume control to adjust the treble response. The display shows:
　'trE - 4' = minimum treble
　'trE 0' = normal treble
　'trE + 4' = maximum treble

Press twice for fader, then use the volume control to adjust the balance between front and rear speakers. The display shows:
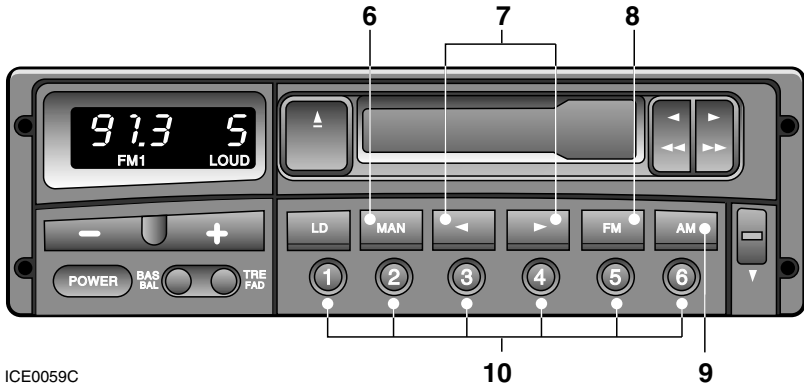　'FAd 0 - 9' = max. sound from FRONT
　'FAd 9 - 9' = equal balance
　'FAd 9 - 0' = max. sound from REAR

5. Loudness mode
Press to activate or deactivate ('LOUD' appears in the display). Loudness mode emphasises bass and treble responses to give a more dynamic sound (useful to combat traffic noise).

R660

ICE0059C

RADIO CONTROLS

6. Manual tuning selector
Press to activate manual tuning mode (a two-tone bleep sounds).

7. Tuning buttons
Press right or left button. The radio automatically searches up or down the frequency range until a radio station is found.

8. FM waveband/auto-store selector
Press briefly to select FM1 or FM2. Press and hold (a two-tone bleep sounds) to auto-store the six strongest radio stations on FM2.

9. AM waveband/auto-store selector
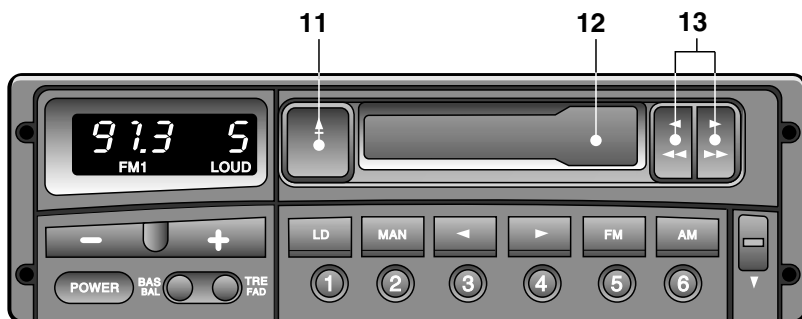Press briefly to select MW1, MW2 or LW wavebands. Press and hold (a two-tone bleep sounds) to auto-store the six strongest radio stations on MW2.

10. Radio pre-set buttons
Use to store and select six radio stations on each waveband. Press and hold (until radio bleeps) to store a frequency on a pre-set. Press briefly to select a frequency that has already been stored.

R660

ICE0063C

CASSETTE PLAYER CONTROLS

11. Cassette eject button
Push the button fully in to eject the tape.

12. Cassette compartment
Insert tape with open side to the right and push fully in. The radio mutes and tape play starts immediately. The display shows 'tAPE' and an arrow (indicating the direction of play).

13. Fast forward/rewind & reverse buttons

● To forward wind, press the button corresponding to the direction of the arrow in the display (during tape play).

● To rewind, press the button opposite to the direction of the arrow appearing in the display (during tape play).

● To stop tape winding, lightly press the remaining (unlocked) wind button.

● To reverse the direction of tape play, half press both buttons simultaneously. Tape play will then automatically resume.

> **WARNING!**
>
> *DO NOT leave cassette tapes in the cassette compartment for long periods when the player is not in use.*

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R660
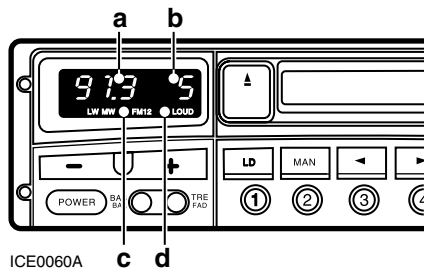
ICE0060A

DIGITAL DISPLAY

The digital display highlights the functions of the radio and cassette player during use.

a. The main display area indicates:

During radio reception:
The frequency
The audio select indicator (bAS, bAL, trE, FAd)
The auto store indicator (ASt)

During tape play:
The word 'tAPE' with an arrow to indicate the direction of play.
The audio select indicator (bAS, bAL, trE, FAd)

b. Pre-set number

c. Waveband (FM1 & 2, MW1 & 2, LW)

d. Loudness indicator

> ***WARNING!***
> *DO NOT push or rub the window. This will damage the display!*

> ***IMPORTANT***

The word 'CodE' should appear briefly whenever the radio is switch on. If 'CodE' appears continuously, an incorrect security code has been entered or the power supply has been interrupted (see 'Security Code').

WAVEBAND SELECTION

There are two waveband selection buttons:

FM selector button (8)

Press BRIEFLY to select the FM waveband ('FM1' or 'FM2' will appear in the display - whichever was last selected). Note that the FM waveband is duplicated (hence FM1 and FM2) to enable you to store twice as many FM radio stations on the pre-set buttons. Press the waveband selector again to change between FM1 and FM2.

AM selector button (9)

Press BRIEFLY to select the AM waveband ('MW1', 'MW2' or 'LW' will appear in the display - whichever was last selected). Note that the medium waveband is duplicated (MW1 and MW2); this will enable twice as many radio stations to be stored on the pre-set buttons. Press the waveband selector to change between MW1, MW2 or LW.

NOTE: The two waveband selection buttons are also used to activate auto-store.
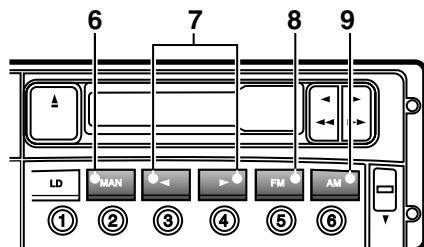
ICE0061A

AUTOMATIC TUNING

Select the desired waveband and then briefly press one of the tuning buttons (7). The radio automatically searches up or down the frequency range until a radio station is located. Each time a signal is found the search stops unless you elect to continue by again pressing one of the tuning buttons. Initially, the radio will only locate strong signals. However, by searching the frequency range a second time, weaker signals may also be found.

MANUAL TUNING

Use manual tuning when you know the frequency of the radio station you are seeking, or for selecting stations that are too weak to be found by automatic tuning.

Press the MAN button (6) (a two-tone bleep sounds) to select manual tuning. Then, by briefly pressing either tuning button (7), the frequency will change (either up or down) in steps of 0.05 MHz for FM, or 1 kHz for MW and LW.

Fast manual tuning

By keeping either tuning button depressed, the waveband will be rapidly scanned (up or down) until the button is released. Automatic tuning will return if:

● The MAN button is pressed again (a two-tone bleep sounds).

● The tuning buttons are not used for 60 seconds.

● The radio is switched off and on.

● The waveband selector or one of the pre-set buttons is pressed.

Always remember, a frequency will eventually be lost, unless it is stored on one of the radio pre-set buttons.

R660

MONO/STEREO

Whenever the FM waveband is selected, the radio will automatically reproduce stereo sound provided a suitable signal is available.

If a signal becomes too weak for good stereo reception, the radio automatically changes to mono and only returns to stereo when the signal strengthens.

ICE0062A
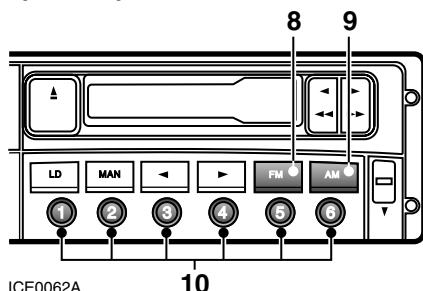
RADIO PRE-SET BUTTONS

The six pre-set buttons (10) can be used to store up to twelve radio stations on FM and MW and six on LW. The pre-sets are programmed as follows:

● Select the desired waveband (FM1, FM2, MW1, MW2 or LW).

● Tune to the desired frequency using either automatic or manual tuning.

● Press and hold one of the pre-set buttons until a two-tone bleep sounds. This indicates that the frequency has been stored (display shows the pre-set number, waveband and frequency you have chosen).

Now repeat this procedure to store the remaining frequencies on this and the other wavebands.

If you do not require different radio stations on every pre-set, use any spare pre-set buttons to store alternative frequencies for the national radio stations - this is particularly useful if you frequently travel between different transmitter areas.

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

NOTE: The pre-set frequencies will be retained when the ignition is switched off but will be lost if the battery is disconnected for any length of time.

R660

AUTO-STORE

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

Programming auto-store

Press and hold the appropriate waveband selection button (8 for FM2 or 9 for MW2) until a two-tone bleep sounds ('ASt' appears briefly in the display).

Auto-store then quickly scans the waveband to find the six strongest frequencies and automatically stores them on the pre-set buttons (10) in order of signal strength (each time a station is stored the display shows the frequency and relevant pre-set number). A second two-tone bleep indicates that the auto-store operation is complete.

NOTE: Programming auto-store will automatically override any pre-sets stored on the FM2 or MW2 wavebands.

NOTE: If auto-store is unable to find six strong stations, the remaining pre-set buttons will remain blank ('000' will appear in the display).

NOTE: The auto-store frequencies will remain stored until either the auto-store selection process is repeated or until you elect to change them by manually tuning different frequencies.

Operating auto-store

To receive an auto-store frequency, press the appropriate waveband selector (you must select either FM2 or MW2), then press the pre-set button of your choice.

ICE0062A

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R770

ICE0031A
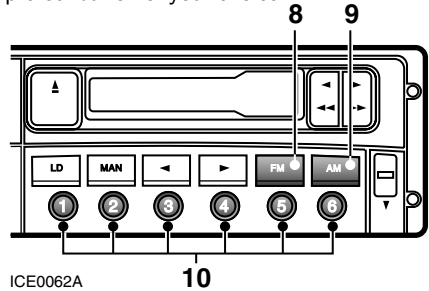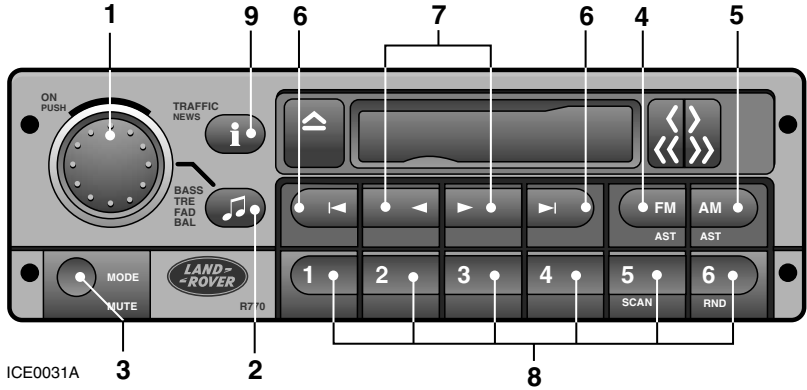
RADIO & SOUND CONTROLS

1. On/off and volume control
Press to switch on (display shows 'LAND',
then 'ROVER', followed briefly by 'CODE'.
Press again to switch off.

Rotate steadily to right or left to adjust the
volume. Note that turning the control rapidly
has no effect!

2. Audio selection button
Press one or more times to select bass,
treble, fader, or balance (display confirms
selection).

Bass:
Press once then rotate the volume control to
left or right to increase or reduce bass
response. Display shows:
    'BASS - 9' = minimum bass
    'BASS 0' = normal bass
    'BASS + 9' = maximum bass

Treble:
Press twice then rotate volume control to left
or right to increase or reduce treble
response. Display shows:
    'TREB - 9' = minimum treble
    'TREB 0' = normal treble
    'TREB + 9' = maximum treble

Fader:
Press three times then rotate volume control
to left or right to adjust balance between
front and rear speakers. Display shows:
    'FAD 0 - 9' = max sound from FRONT
    'FAD 9 - 9' = equal balance
    'FAD 9 - 0' = max sound from REAR

Balance:
Press four times then rotate volume control
to left or right to adjust balance between left
and right speakers. Display shows:
    'BAL 0 - 9' = max sound from RIGHT
    'BAL 9 - 9' = equal balance
    'BAL 9 - 0' = max sound from LEFT

Press the button again to return to volume
control.

*NOTE: After 5 seconds without further
adjustment, audio mode is deselected and
reverts to volume control.*

R770

3. Mode selector
Press briefly to select radio, tape or CD play.

Press and hold for 2 seconds to mute the audio output (a two-tone bleep sounds and the display shows 'MUTE'). All sound is muted except for traffic information and news broadcasts (see 'Traffic and news information'). Press any control to cancel mute.

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

4. FM waveband selector
Press briefly to select FM frequencies. There are two FM bands (FM1 and FM2). Both have the same tuning range, and each one can be used to store six frequencies on the pre-set buttons.

Press and hold to activate auto-store (on FM2 only - see 'Auto-store').

5. AM waveband selector
Press briefly to select one of the three AM bands (MW1, MW2 and LW). Each can be used to store six stations on the pre-set buttons.

Press and hold to activate auto-store (on MW2 only - see 'Auto-store').

6. Automatic tuning buttons
Briefly press either button to search up or down the frequency range (see 'Radio tuning').

7. Manual tuning buttons
Press and hold either button to scan up or down the frequency range (see 'Radio tuning').

8. Radio pre-set buttons (1-6)
Use to store up to 6 radio stations on each waveband.

Press briefly to select a stored frequency.

Press and hold (until radio bleeps) to store a frequency on a pre-set (see 'Pre-set buttons').

9. Traffic and news information
Press briefly to receive (or switch off) traffic information broadcasts - FM waveband only (see 'Traffic information').

Press and hold for 2 seconds to receive (or switch off) news bulletins - FM waveband only (see 'News information').

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.

R770
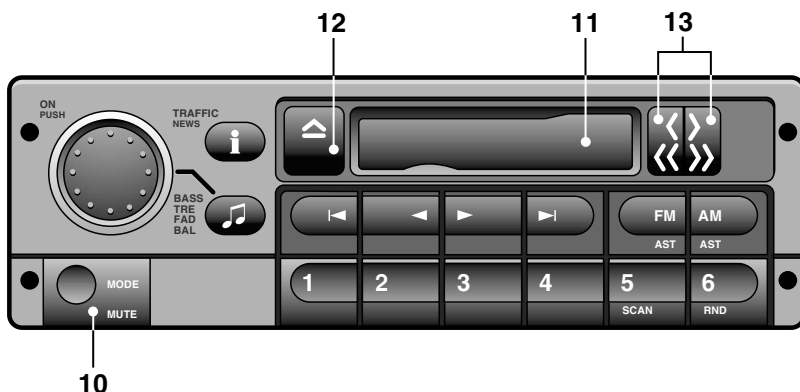
ICE0039A

CASSETTE PLAYER CONTROLS

10. Mode selector (MODE)

Press to select tape play (display shows 'TAPE'), or press to change to radio or CD operation during tape play - the cassette remains in stand-by mode until the switch is pressed again to return to tape play.

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

11. Cassette compartment

Insert the tape with the open side to the right and push in gently. The radio mutes and tape play starts immediately (the word 'TAPE' and an arrow, indicating the direction of play, appear in the display).

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

12. Cassette eject button

Push the button fully in to eject the tape. The unit resumes whichever mode was operating prior to tape play.

13. Fast forward/rewind and reverse buttons

During tape winding, the radio operates and 'FAST' shows in the display.

● To rewind, press the button opposite to the direction of the arrow appearing in the display during tape play.

● To forward wind, press the button corresponding to the direction of the arrow in the display during tape play.

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

● To reverse the direction of tape play, lightly press both fast forward and rewind buttons together.

R770
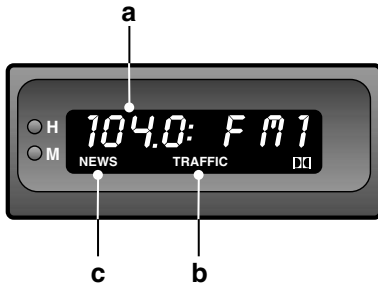
ICE0033

DIGITAL DISPLAY

The digital display highlights the functions of the radio/cassette and CD player during use:

a. The main display area indicates:

During radio reception:

- 'TUNER' shows when changing to radio reception using the Mode button.

- 'SEARCH' (accompanied by an arrow) shows while a frequency is being found.

- AST FM2 or AST MW2) shows while autostore is functioning.

- The frequency or station name and waveband (FM1, FM2, MW1, MW2, LW). After 10 seconds this will be replaced by an abbreviated display showing the pre-set number (eg. P1) and clock display.

During tape play:

- 'TAPE' indicates tape play.

- 'FAST' indicates tape winding, together with an arrow showing direction of play.

After 10 seconds the tape play display abbreviates to 'T' plus an arrow indicating the direction of play and the clock display reappears.

During compact disc play:

- The compact disc number ('CD1').

The track number; (appears as 'TR01' during playback, 'SC01' during scan mode and 'RD01' during random play).

- In addition, any of the following words may be displayed to indicate the status of the CD changer: 'NO DISC', 'NO MAG', 'CD ERROR' or 'CD'.

After 10 seconds the display abbreviates to the CD number and clock. At the start of each new track the display will show 'CD-TR--' for 10 seconds before abbreviating again.

b. 'TRAFFIC' illuminates when the traffic information mode is selected (FM waveband only).

c. 'NEWS' illuminates when the news information mode is selected (FM waveband only).

WARNING!

DO NOT push or rub the window. This will damage the display!

IMPORTANT

If the word 'CODE' appears continuously in the display, an incorrect security code has been entered or the power supply has been interrupted (see 'Security Code').

R770

RADIO 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 by briefly pressing either manual tuning button (7), the frequency will change (either up or down) in steps of 0.05 MHz for FM, or 1 kHz for MW and LW.

Fast manual tuning

By keeping either manual tuning button depressed, the waveband will be scanned rapidly (up or down) until the button is released.

Automatic tuning

Select the required waveband (FM or AM), then press one of the automatic tuning buttons (6) - ('SEARCH' appears in the display).

The radio automatically searches the frequency range (either up or down depending upon which button is pressed) looking for stations of acceptable strength. The radio stops at each one it finds and displays the station name (if applicable). The search then stops unless you elect to continue by pressing the tuning button again.

Initially, the radio will only locate strong signals. However, by searching up or down the frequency range a second time, weaker signals can also be found.

The search can be stopped at any time by pressing any pre-set button.
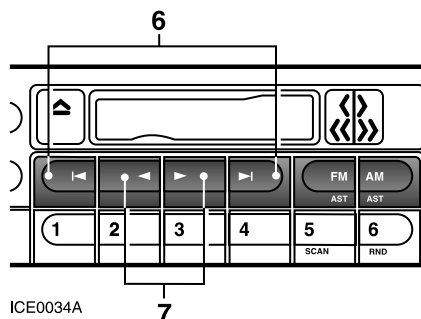
6

ICE0034A   **7**

MONO/STEREO

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

RADIO PRE-SET BUTTONS

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. The pre-sets are programmed as follows:

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.

● Press and hold one of the pre-set buttons until a two-tone bleep sounds. The frequency is now stored (the display shows the waveband and frequency or name of the station you have tuned).

NOTE: After approximately 10 seconds, the display will abbreviate to show only the pre-set number and the clock.

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.

NOTE: Once the pre-sets have been programmed, they will be retained by the unit until they are re-programmed.
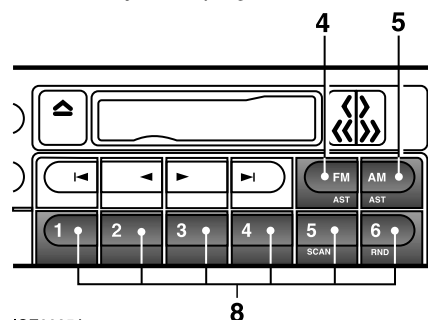
ICE0035A

AUTO-STORE

Auto-store enables you to rapidly tune and store the strongest FM or 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) until a two-tone bleep sounds (the radio mutes and the display shows either 'AST FM2' or 'AST MW2').

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.

A second two-tone bleep indicates that the operation is complete.

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 armed, then only stations capable of providing traffic information will be stored.

NOTE: If auto-store is unable to find six strong stations, the remaining pre-set buttons will remain blank (the display showing: '0000').

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; the frequency or radio station name will appear on the display.

NOTE: It is recommended that both traffic and news information facilities are switched off before the pre-set stations are stored and before auto-store is programmed.

R770

RADIO DATA SYSTEM (RDS)

This radio is equipped with RDS (Radio Data System). RDS is being introduced in European countries and operates on the FM waveband. The system enables the radio to receive other information in addition to radio signals, including:

- *the programme service name* (this enables the set to display the radio station name instead of the frequency).
- *alternative frequencies* for the FM radio station being received (this enables the set to automatically select the strongest signal, thereby maintaining the best possible reception).
- *a traffic or news information system* (this enables the set to give priority to traffic or news information broadcasts over other radio, tape or CD programmes).
- *an alarm announcement system* (this enables the set to give priority to emergency information; eg. a very serious accident or natural disaster).
- *EON* (enhanced other networks) allows traffic or news information from radio stations other than the one to which the radio is currently tuned, provided they are all members of a linked EON network.

Receiving RDS stations
The radio is automatically in the RDS mode whenever the FM waveband is selected.

Whenever an RDS radio station is received, the radio station name illuminates in the display. The set constantly scans all alternative frequencies on which that station can be received, and automatically switches to the strongest signal it can find.

This is particularly useful on long journeys where the car travels through several different transmitter areas which serve the same radio station.

NOTE: In some countries, not all FM radio stations broadcast RDS. If a non-RDS station is received the RDS features described previously will not be available.

NOTE: If the display shows 'SEARCH' alternately with the radio station name, the vehicle has travelled outside the reception area for that station. The set will search for the last tuned station on any other FM frequency. If it cannot be found at adequate strength, it will abandon the search and another station will have to be selected manually.

Local radio stations
Reception of most local radio stations is intentionally limited to a comparatively small area around the transmitter.

Once the limit of the reception range is reached, it is unlikely that the RDS facility on your radio will be able to locate an alternative frequency for the local radio station being received.

If the signal is weak but no alternative frequencies are available, the set will stay tuned to that frequency until the signal is unreceivable. At this point SEARCH mode will operate (see 'NOTE' above).

R770
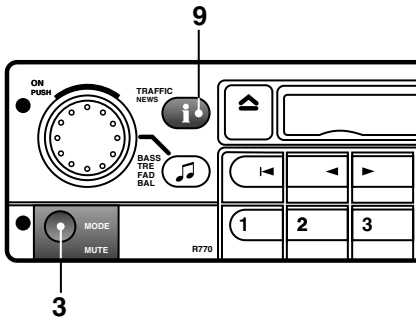
ICE0036A

TRAFFIC INFORMATION

On the FM waveband, your radio is able to broadcast traffic information from local radio stations that are linked to the same network as the station to which it is tuned.

Selecting traffic

- With FM selected, BRIEFLY press the Traffic button (9) - the TRAFFIC indicator illuminates in the display.

- Any available traffic information will then automatically be broadcast as and when it occurs (even if you are listening to cassette tapes or CDs).

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

If the radio is tuned to an FM station that does not provide traffic information, the display flashes 'NO TRAF'. Either; switch off traffic information, switch to another FM station, or allow the radio to go into 'SEARCH' (after 10-15 seconds) to find a station that does broadcast traffic information.

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 will switch off traffic and return to the station to which it was previously tuned.

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.

Switching off traffic

To switch off traffic information, briefly press the Traffic button (the TRAFFIC indicator disappears from the display).

To receive ONLY traffic

With the radio tuned to an RDS station and with Traffic information switched on, press and hold the Mode selector (3) until a two-tone bleep sounds (display shows 'MUTE'). The radio mutes except for traffic broadcasts! When traffic information is received, the display will indicate which radio station has provided the information.

Cancel the MUTE facility by pressing any of the controls.

Traffic during tape or CD play

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

Networked traffic announcements

BBC radio stations are linked in a network. If traffic information is selected when a BBC station is tuned, the unit will receive traffic information from any local BBC station within reception range. In the main, independent radio stations are not linked together to share traffic news in this way.

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R770
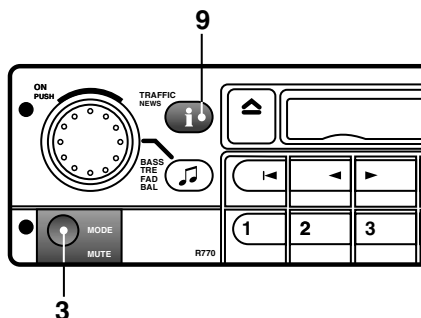
ICE0036A

NEWS INFORMATION

On the FM waveband, RDS radio stations can network together to provide news information broadcasts. Your radio is able to identify these stations and can broadcast news bulletins as and when they occur by interrupting the current radio broadcast, tape or CD.

Switching on news

● Select the FM waveband, then press and hold the News button (9) until a bleep sounds - the NEWS indicator illuminates in the display.

● All available news bulletins will then be received automatically as and when they occur (even if you are listening to cassette tapes or CDs).

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

NOTE: If both Traffic and News information are selected, the radio will give priority to which ever broadcast commenced first - one information source cannot interrupt another!

Switching off news

To switch off News information, press and hold the News button (9) for approximately 2 seconds (a bleep will sound and the NEWS indicator disappears from the display).

Unwanted News broadcasts can be aborted by BRIEFLY pressing the News button (do not press and hold).

To receive ONLY news

With the radio tuned to an RDS station and with News information switched on, press and hold the Mode selector (3) until a two-tone bleep sounds (display shows 'MUTE'). The radio is silenced except for news information broadcasts! When a news broadcast is received, the display will indicate which radio station has provided the information.

Cancel the MUTE facility by pressing any of the controls.

News during tape or CD play

With the radio in news information mode (NEWS indicator illuminated), CD, or tape play will be interrupted by news broadcasts whenever they occur.

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.
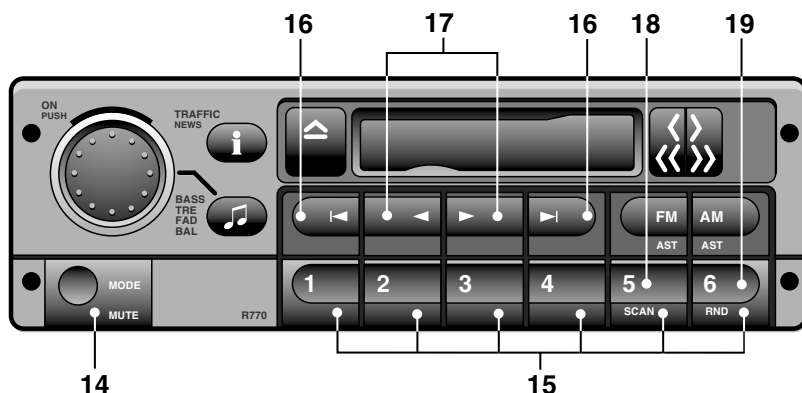
ICE0071

COMPACT DISC PLAYER CONTROLS
(These controls operate only with the optional CD changer unit fitted)

14. Mode selector
Press once or twice to select CD player mode. Playback will start from the point on the disc at which play last stopped, or from the start of the first disc if the magazine is newly inserted. The display shows track number ('TR01') and disc number ('CD1').

At the end of each disc, playback automatically continues with the next disc (missing discs are skipped if less than six have been loaded).

15. Disc selection buttons (1-6)
Press the appropriate button to select the desired disc. If an empty compartment is selected, the display shows 'NO DISC' and the next available disc is selected instead.

16. Track selection buttons
With a CD playing, you can move forward or back to the start of the next or current track by pressing the appropriate button (display shows CD and track numbers). This function is not permitted more than three times in a single sequence, nor will it operate beyond the start or end of a disc.

17. Track search buttons
With a CD playing, press and hold the appropriate button to move forward or back through the track at a greatly increased play speed (volume reduces).

18. Scan mode button (SCAN)
Scan mode enables you to listen to the first 10 seconds of each track of all six discs. Press and hold the SCAN button (a two-tone bleep sounds). The display shows the disc number ('CD-') and the scanned track ('SC--'). Scan continues until another function is selected.

19. Random play button (RND)
You can listen to all the tracks on a disc in a random sequence by pressing and holding the RND button (a two-tone bleep will sound). At the start of each track, the display shows disc number ('CD-') and the number of the track currently playing ('RD--'). When all tracks have been played, random selection continues on the remaining discs until the button is pressed again (hold until the two-tone bleep sounds).

R770
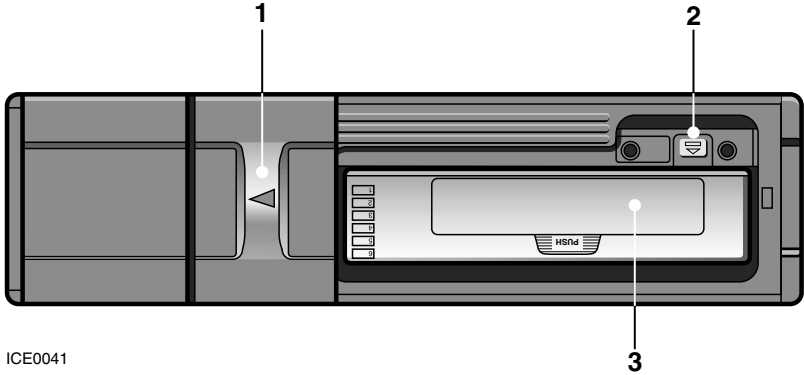
ICE0041

COMPACT DISC CHANGER UNIT (if fitted)

Removing/inserting the magazine

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.
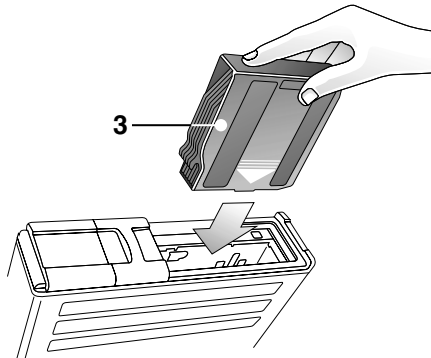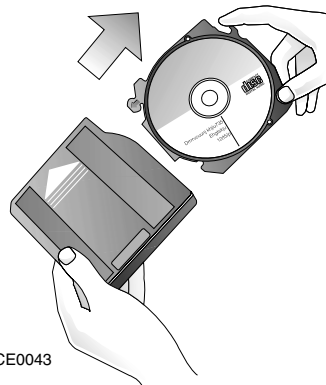
Loading the magazine

Holding the magazine as shown (arrow 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.

ICE0042

ICE0043

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

R770

Unloading the magazine

Again, holding 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.*
- *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.*


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!
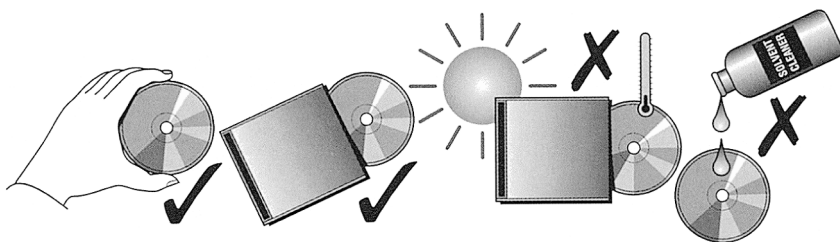
ICE 0022

Care of Cassette Player and Tapes
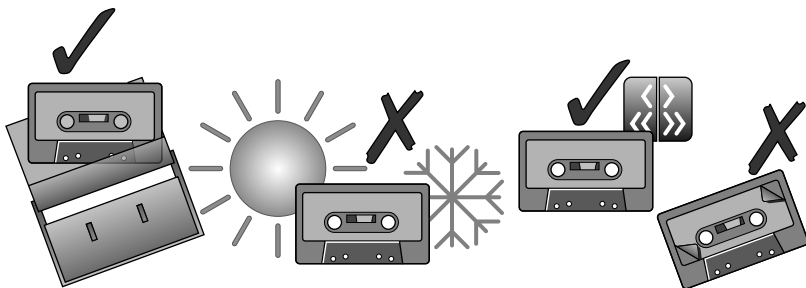
ICE 0054

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

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

In winter, more frequent cleaning is required, because the bonding of contamination to the tape is affected by low temperatures and increased humidity. However, the use of good quality tapes will keep 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 unuseable, 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.

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!

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 the RDS capability of automatic retuning to the strongest FM signal 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 30 to 40 mile 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 car 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).

Operating tips for better reception:

● Set the aerial at a high angle.

● Switch off TRAFFIC and NEWS functions when they are not required.
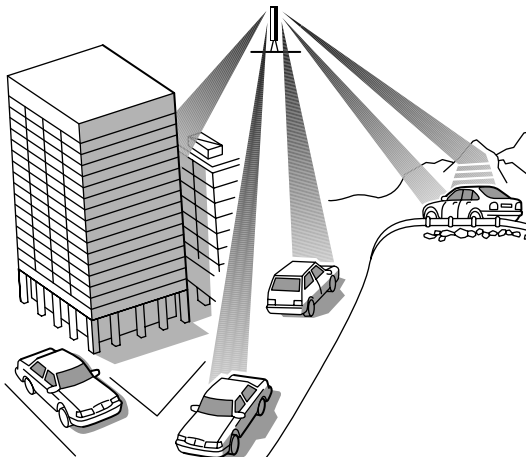
ICE 0052

Security Code

SECURITY CODE INFORMATION

To reduce the risk of theft, Freelander radio/cassette and CD players are programmed with a four digit security code. 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 radio equipment 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.

On delivery of the vehicle you were supplied with a Security Information card. This card contains a record of the four digit security code, as well as the 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.

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.
- DO stick the security warning stickers where the potential thief is sure to see them, but where they will not impede your vision of traffic and pedestrians.
- If you lose your code number, contact the nearest Land Rover dealer, who will be able to obtain this information for you.

Activating the code

Your dealer will have correctly activated the security code before you took delivery of the vehicle. This will be confirmed whenever you switch the unit on by 'CODE' appearing BRIEFLY in the display.

If this display is absent, the radio will still work, but will not be protected by the security code. If this is the case, you should activate the code by keeping the 'up' tuning button depressed while turning the set on (a two-tone bleep will sound). Before activating the code, ensure that you have the Security Information card with the security code on it.

RADIO SECURITY

In addition to the unique security code, the audio unit fitted to your vehicle may have other important anti-theft features:
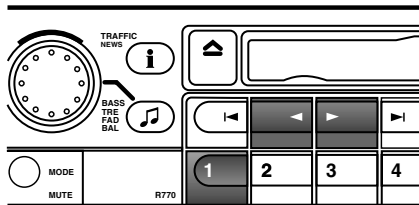
- All radio/cassette players are Land Rover branded.
- The R660 will not operate without its detachable keyboard.
- The R770 will not operate without the remote display unit.

Security Code
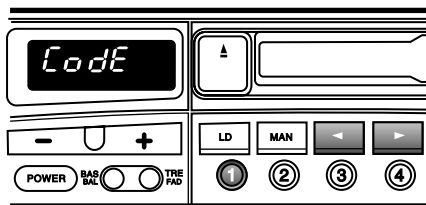
ICE0064B

R660

ICE0040B

R770

ENTERING THE SECURITY CODE

If the code has not already been entered, or power to the set has been interrupted, 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.

Press one of the manual tuning buttons (highlighted in illustration) to select the first digit of the security code. 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. Press pre-set 1 to store the second digit.

Select the third digit, again using the tuning buttons. Press pre-set 1 to store the third digit.

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

If the correct code has been selected, a two-tone bleep will sound and the radio will operate.

NOTE: If an incorrect code has been entered, a single warning tone will sound and the first time delay period commences. During the delay period, 'Err' or 'WAIT' will appear in the display - DO NOT switch off. At the end of the delay period, 'CODE' will reappear in the display and you can then enter the correct code. Remember; the time delay period doubles each time an incorrect code is entered.