



DISCOVERY

In-Car Entertainment

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Radio



SOUND CONTROLS

1. Front panel release

With the audio unit switched off, press the release key to remove the front panel.

To replace: insert the right side of the panel first, then push the left side until it locks into position.

NOTE: When removed, protect the panel from damage by storing it in the case provided.

2. On/off switch (PWR/INTLZ)

Press to switch on. Press again to switch off.

NOTE: The audio unit can also be turned on by pressing any control except the cassette eject button. When first switched on following battery disconnection, volume is set automatically at level 12.

3. Audio mode selection and loudness (MODE/LOUD)

Press repeatedly to select (in turn): bass, treble, balance or fader (the display will confirm the selection). Adjust the selected mode using the volume controls (4).

Loudness: Press and hold for two seconds to activate or deactivate loudness mode (the 'LD' indicator illuminates when loudness is active).

Loudness mode emphasises bass and treble frequencies at low volume - useful to combat traffic noise.

4. Volume and sound adjustment

Volume: Press the up or down controls to increase or decrease the volume (the display will show 'VOL' plus a numerical value for the volume selected).

Sound adjustment: Use the audio mode selection control (3) to select the desired mode - bass, treble, balance and fader - then press the up or down volume controls (4) to adjust the sound levels for each mode.

Bass: Press control 3 once, then operate the volume controls to adjust the bass response:

- 'BASS -7' = minimum bass
- 'BASS ± 0 ' = normal bass
- 'BASS +7' = maximum bass

Treble: Press control 3 twice, then operate the volume controls to adjust the treble response:

- 'TREB -7' = minimum treble
- 'TREB ± 0 ' = normal treble
- 'TREB +7' = maximum treble

Balance: Press control 3 three times, then operate the volume controls to adjust the balance between left and right speakers:

- 'BAL R 15' = max sound from RIGHT
- 'BAL -- --' = equal balance
- 'BAL L 15' = max sound from LEFT

Fader: Press control 3 four times, then operate the volume controls to adjust the balance between front and rear speakers:

- 'FAD R 15' = max sound from REAR
- 'FAD -- --' = equal balance
- 'FAD F 15' = max sound from FRONT

NOTE: After 5 seconds without further adjustment of the bass, treble, balance or fader settings, the controls revert to volume control.

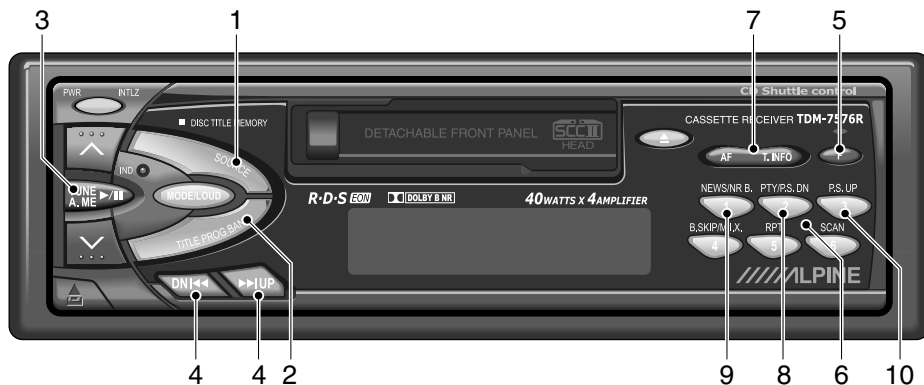
NOTE: The bass and treble settings can be set individually to suit different sound sources, e.g. FM, MW, LW and tape.

5. Signal level adjustment (preset 1)

If the difference in volume level between tape play and FM radio is too great, the FM signal level can be adjusted as follows:

1. Press and hold the PWR/INTLZ button (2) for at least 3 seconds.
2. Press preset 1 (5) to select the FM signal level: HI (high) to increase FM volume, or LO (low) to reduce FM volume (display shows 'FM-LV HI' or 'FM-LV LO'). Each press will toggle between the two.
3. Briefly press the PWR/INTLZ button (2) to cancel signal level adjustment.

Radio



ICE 0195

RADIO CONTROLS

1. Mode selector (SOURCE)

Press repeatedly to select radio, tape or CD play. Note that tape play is also selected automatically whenever a cassette is loaded.

2. Waveband selection (BAND)

Press repeatedly to select one of the waveband options: F1, F2, MW and LW. Note that there are two FM bands (F1 and F2). Both have the same tuning range, and can be used separately to store up to six frequencies on the pre-set buttons.

3. Manual or automatic tuning (TUNE)/ Automatic pre-set tuning (A.ME)

Manual tuning: press until the 'DX' and 'SEEK' indicators disappear from the display, then operate the tuning buttons (4) (see '*RADIO TUNING*', page 15).

Automatic tuning: press until the 'DX' and/or 'SEEK' indicators appear in the display, then operate the tuning buttons (4) (see '*RADIO TUNING*', page 15).

Automatic pre-set tuning: press and hold for 2 seconds to store the six strongest frequencies on each waveband (see '*Operating the pre-sets*', page 16).

4. Tuning buttons (DN & UP)

Press to search up or down the frequency range (see '*RADIO TUNING*', page 15).

5. Function control (F)

Some features are only available after the function control has been operated, e.g. requesting news broadcasts (see '*Selecting news information*', page 19). Note that the indicator light immediately above the function control illuminates or extinguishes according to its status.

6. Pre-set buttons (1 - 6)

Use to store up to 6 radio stations on each waveband (F1, F2, MW and LW).

With the function indicator illuminated (see item 5, above), press and hold the selected pre-set for at least 2 seconds. While the display is flashing, press again to store the frequency on the pre-set (see '*RADIO PRE-SET BUTTONS*', page 16).

Press briefly to select a stored frequency.

7. Radio data system (AF)/Traffic information (T.INFO)

Radio data system (RDS): Press the left side of the switch to activate, or deactivate (display indicator 'AF' illuminates when RDS is selected). RDS operates on the FM waveband only and controls a number of features, including: programme type and station name, automatic re-tuning to stronger transmitters, traffic and news information broadcasts (see '*Selecting RDS*', page 17).

Press and hold for at least 2 seconds to seek an RDS station providing a stronger signal.

Traffic information: Press the right side of the switch briefly to select, or deselect, traffic information (the 'T-INFO' indicator illuminates when traffic information is selected) - FM waveband only (see '*Selecting traffic information*', page 19).

Press again briefly to return to normal radio, tape or CD reception during a traffic information broadcast.

8. Programme type tuning (PTY)

To activate this feature, the function indicator light must be extinguished; if necessary, press the function control (5) to extinguish the light. Press the PTY button to activate programme type tuning, then use the tuning buttons to select a programme type - FM waveband only (see '*PTY (programme type) tuning*', page 18).

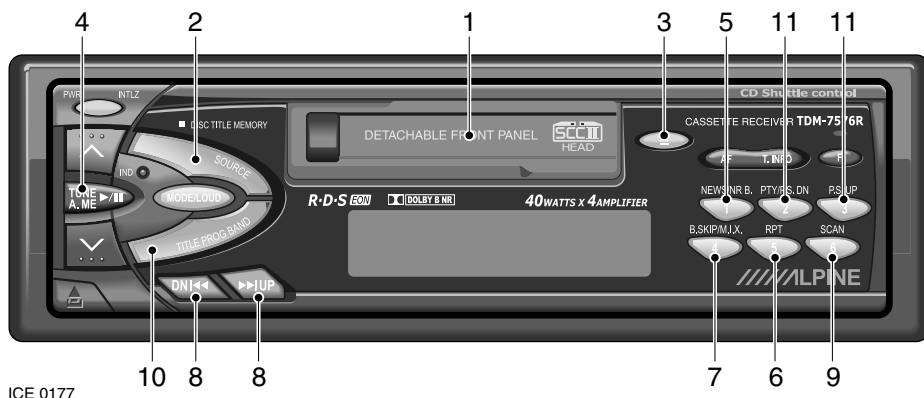
9. News broadcasts (NEWS)

To activate this feature, the function indicator light must be extinguished; if necessary, press the function control (5) to extinguish the light. Press the NEWS button to activate or deactivate the priority selection of news broadcasts - FM waveband only (see '*Selecting news information*', page 19).

10. Emergency alarm (pre-set 3)

(see '*Emergency alarm broadcasts*', page 20).

Cassette Player



CASSETTE PLAYER CONTROLS

IMPORTANT

Some cassette player features are inoperable if the function indicator light is extinguished. If necessary, press the function control to illuminate the light (see 'Radio Controls').

1. Cassette compartment

Insert a cassette with the open side to the right and push in gently. Tape play starts immediately (the word 'LOAD', followed by 'TAPE' and an arrow, indicating which side of the tape is being played, appears in the display). When the end of the tape is reached, the unit automatically reverses and plays the other side of the tape.

If the set is switched off during tape play, the cassette remains in pause 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 (the 'MTL' indicator illuminates).

2. Mode selector (SOURCE)

If a cassette is already loaded, press to select tape play. During tape play, press once or twice to change to radio or CD operation (the cassette will remain in pause mode until the control is pressed again to return to tape play).

3. Cassette eject

Press to eject the cassette. The unit resumes whichever mode was operating prior to tape play.

4. Pause

Press to pause tape play (the display shows 'PAUSE'). Press again to resume tape play.

5. Dolby B noise reduction (NR B)[†]

Press when playing Dolby B NR encoded tapes to reduce tape noise (the 'NR B' indicator illuminates). Press again to cancel.

[†] Noise reduction manufactured under license. Dolby and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

Cassette Player

6. Repeat play (RPT)

Press to repeatedly play the current track (the 'RPT' indicator illuminates). Press again to stop repeat play.

7. Blank skip (B.SKIP)

Press to skip blank portions of tape that exceed 15 seconds playing time (the 'B.S.' indicator illuminates). Press again to cancel.

8. Fast forward & rewind (DN & UP)

Press the DN button to rewind, or the UP button to fast forward wind (the tape side indicator flashes, and a series of moving arrows indicating the direction of tape wind appear in the display). Press the DN button a second time to stop rewinding, or the UP button a second time to stop fast forward winding.

NOTE: *When the end of the tape is reached in fast forward mode, the unit automatically begins playing the other side of the tape. When the end of the tape is reached in rewind mode, tape play starts again on the same side.*

9. Tape scan (SCAN)

Press to play the first ten seconds of each track on the tape in programme order (display shows 'SCAN'). Once the desired track is found, press again to resume normal tape play.

NOTE: *Tape scan will not detect blank sections between tracks of less than four seconds duration.*

10. Tape reverse (PROG)

Press to reverse the direction of tape play (the tape side indicator in the display will change to show which side of the tape is being played).

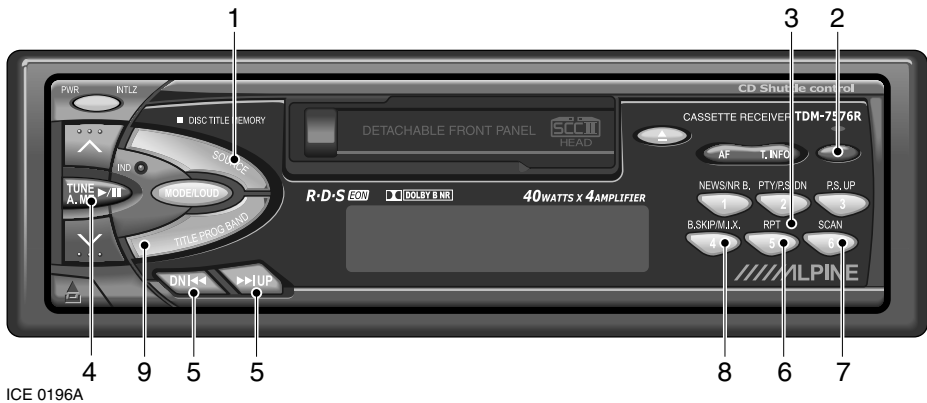
11. Programme sensor (P.S.UP & P.S.DN)

This search function enables you to move forward or back through either side of the tape, to select the track of your choice.

Press the P.S.UP button once to advance to the start of the next track, or press repeatedly (up to nine times) to select tracks that are further ahead (the display shows 'PS +1' with the first press, up to 'PS +9').

Similarly, by pressing P.S.DN once, tape play will return to the start of the current track. Additional presses of the control will, retrogressively, locate earlier tracks on the tape (display shows 'PS -1' up to 'PS -9').

Compact Disc Player



COMPACT DISC PLAYER* CONTROLS

1. Mode selector (SOURCE)

Press once or twice to select CD player mode. Play 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 the disc and track numbers.

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

2. Function control (F)

Some of the CD features described on this page are only available if the function control has been pressed. The indicator light above the control illuminates or extinguishes to indicate the status of the function control.

3. Disc selection buttons (1-6)

With the function indicator illuminated (see item 2, above), press the appropriate disc selection button to select the desired disc in the CD changer. If an empty compartment is selected, the display shows 'NO DISC' and the next available disc is selected instead.

4. Pause

Press to pause disc play (the display shows 'PAU'). Press again to resume play.

5. Music search (DN) (UP)

Press DN once to return to the start of the current track, or press UP once to move to the start of the next track on the disc.

Press either control repeatedly to search for tracks further forward or back on the disc.

By pressing and holding either control, the audio unit will play rapidly backwards or forwards through the current track on the disc.

NOTE: These features are functional in both the play and pause modes.

6. Repeat play (RPT)

To activate this feature, the function indicator light must be extinguished (if necessary, press the function control (2) to extinguish the light).

With a CD playing, press RPT once or twice to either repeat the current track (the 'RPT' indicator illuminates), or repeat all the tracks on the disc (both the 'RPT' and 'ALL' indicators illuminate).

Compact Disc Player

Press once or twice more until the 'RPT' and 'ALL' indicators disappear to stop repeat play, then press the function control to return it to normal mode (function indicator illuminates).

7. Disc scan (SCAN)

To activate this feature, the function indicator light must be extinguished (if necessary, press the function control (2) to extinguish the light). Press to select disc scan; this enables the audio unit to play the first 10 seconds of each track on the selected disc (the display shows the disc number, 'SCAN' and the number of the track being played).

Press again to cancel disc scan, then press the function control to return it to normal mode (function indicator illuminates).

8. Random play (MIX)

Before selecting random play, ensure the function indicator light is extinguished (if necessary, press the function control (2)).

While a disc is playing or is in pause mode, press MIX to select random play (the 'MIX' indicator illuminates in the display). With random play, all the tracks on the disc are played in a random sequence. After all the tracks have been played, the CD changer loads the next disc and a new random sequence begins.

Press the MIX button again to cancel random play, then press the function control to return it to normal mode (function indicator illuminates).

9. CD title display (TITLE)

Titles of up to eight digits can be created individually for each disc in the CD changer, as follows:

3. Press and hold the TITLE button (9) for at least 3 seconds. The first digit position in the display flashes.
4. Repeatedly press the DN or UP buttons (5) to select a letter, numeral or symbol from the list available for titling.
5. Press the TITLE button to store the first character of the title. The display then advances to the next digit position, which will start flashing. The next letter, symbol or number of the title can then be selected.
6. Repeat steps 4 and 5 (above) until your title is complete, remembering to press the TITLE button to store the final digit. If a title of less than 8 digits is entered, press and hold the TITLE button for at least 3 seconds to store the title.

NOTE: When the memory capacity is exhausted, the display shows 'FULL DATA'.

Erasing disc titles:

1. With the title display mode selected (i.e. with a disc title showing in the display), press and hold the TITLE button (9) for at least 3 seconds (the first digit may start flashing).
2. Press and hold the SOURCE button (1) for at least 3 seconds to activate the title erasing mode (the complete title display commences flashing).
3. Press the DN or UP button repeatedly until the title to be erased is displayed.
4. Press and hold the SOURCE button (1) for at least 3 seconds to erase the title (display shows 'NO DATA').
5. Press and hold the TITLE button for at least 3 seconds to cancel the title erasing mode.
6. Press the TITLE button once more to leave the title display mode.

To title a disc:

1. Press the TITLE button (9) to select the disc title display mode.
2. With the function indicator illuminated, press one of the disc selection buttons (3) to select a disc to be titled.

Digital Display



ICE 0202

MAIN DISPLAY AREA

The digital display highlights the functions of the audio unit during use.

Radio reception

The radio station name (or frequency), waveband and pre-set number will normally be displayed during radio reception (see illustration). Any of the following messages may also appear:

- 'MANUAL' - manual tuning has been activated.
- 'SEEK--DX' - automatic search tuning is programmed to seek both strong and weak signals.
- 'SEEK--LOC' - automatic search tuning is confined to strong signals only.
- 'REG OFF' - RDS is able to search for an alternative local radio station once reception deteriorates.
- 'REG ON' - RDS is prohibited from searching for an alternative local radio station when reception deteriorates.
- 'AF SEEK' - indicates that the audio unit is searching for a stronger RDS signal.
- 'SEEK END' - indicates that the search for a stronger RDS signal has ended.
- 'TRF-INFO' - flashes for 5 seconds to indicate the start of a traffic information message.
- 'PTY31 ON' - the radio is programmed to broadcast emergency alarm messages.
- 'A-MEMORY' - automatic pre-set tuning is in operation.

- 'NO PTY' - programme type tuning is unavailable.
- 'NO RDS' - reception is limited to non-RDS stations only.

Tape play

Any of the following messages may be displayed:

- 'LOAD' - a cassette tape is loaded.
- 'TAPE' - the audio unit is in tape play mode.
- 'EJECT' - the cassette eject control has been operated.
- 'PAUSE' - the cassette tape is in pause mode.
- 'SCAN' - the tape scan feature is playing the first 10 seconds of each track.
- 'PS' - the programme sensor feature is in operation (PS+1 to PS+9, or PS-1 to PS-9).

Compact disc play

Disc and track numbers are shown during CD play. Any of the following may also appear:

- 'NO DISC' - the compartment in the CD autochanger is empty.
- 'SCAN' - the CD scan feature is in operation.
- 'FULL DATA' - the CD titling memory is full.
- 'NO DATA' - no disc title is stored.
- 'PAU' - the pause mode has been selected.
- 'NO MAGZN' - the magazine has not been loaded into the autochanger.
- 'HI TEMP' - the operating temperature is too high. Allow unit to cool. Indicator disappears when temperature is within operating range.

CD changer error messages

- 'ERROR 1' - Indicates either:
 - a malfunction inside the CD changer. Press the magazine eject button and remove the magazine. Check the error message. Insert the magazine again. If the magazine will not eject, consult an Alpine dealer.
 - the magazine will not eject. Press the magazine eject button. If the magazine does not eject, consult an Alpine dealer.
- 'ERROR 2' - Indicates that a disc has been left inside the CD changer. Press the magazine eject button. When the eject function has finished, insert an empty magazine into the changer to receive the disc.

Digital Display



ICE 0203

DISPLAY INDICATORS

Radio reception

During radio reception, any of the following indicators may be shown:

LD	illuminates while loudness mode is selected
AF	illuminates while RDS is selected
SEEK	indicates that the radio tuner is searching for strong signals only
DX	indicates that the tuner is searching for weak signals as well as strong
NEWS	illuminates while News Information is selected
EON	illuminates while an RDS EON (enhanced other networks) signal is received
TP	illuminates while a station is tuned that broadcasts Traffic Information
T.INFO	illuminates when Traffic Information is selected
ST	illuminates while stereo signals are broadcast (FM only)

Tape play

During tape play, any of the following indicators may illuminate:

NR B	illuminates while Dolby noise reduction is selected
MTL	illuminates automatically while a 'metal' or high bias tape is played
RPT	illuminates while 'repeat play' is selected
B.S.	illuminates while 'blank skip' is selected

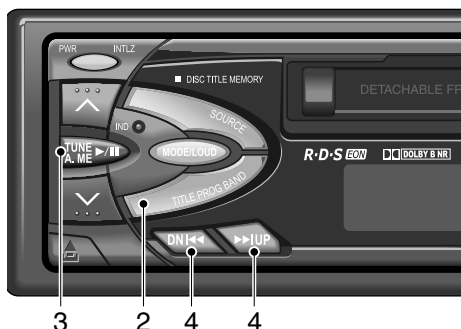
Compact disc play

During CD play, any of the following indicators may illuminate:

RPT	illuminates when 'repeat play' is selected to repeat current track
RPT & ALL	illuminate when 'repeat play' is selected to repeat all tracks
MIX	illuminates while 'random play' is selected

Radio Tuning

RADIO TUNING



CE 0198

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:

1. Select the desired waveband (F1, F2, MW or LW) by pressing BAND (2).
2. Press the TUNE button (3) until the 'DX' and 'SEEK' indicators disappear from the display ('MANUAL' will appear briefly in the main display area).
3. Press the UP or DN tuning buttons (4) to select the desired frequency. The frequency will change (either up or down) in steps of 100 kHz for FM, or 9kHz for MW, or 1 kHz for LW.

Fast manual tuning

By keeping either tuning button (4) pressed, the waveband will be scanned rapidly (up or down) until the button is released.

Automatic tuning

With the required waveband selected (F1, F2, MW or LW), press the TUNE button (3) until either the 'DX' or 'SEEK' indicator illuminates.

- If the 'SEEK' indicator is illuminated, tuner search is limited to strong signals only.
- With both the 'DX' and 'SEEK' indicators illuminated, the radio tuner will search for weaker signals as well.

By pressing one of the UP/DN tuning buttons (4), the radio tuner will automatically search the frequency range (either up or down) seeking 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.

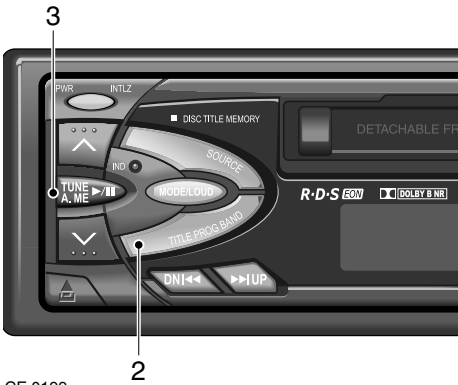
Automatic search can be stopped at any time by pressing the same UP/DN tuning button a second time.

MONO/STEREO

Whenever the FM waveband is selected, the radio automatically reproduces stereo sound, provided a suitable signal is available (the 'ST' indicator illuminates). However, if a stereo signal becomes too weak for good reception, the 'ST' indicator extinguishes and mono sound is produced until the signal strengthens sufficiently for stereo reproduction.

Radio Tuning

RADIO PRE-SET BUTTONS



CE 0199

The six pre-set buttons (6) can be used to manually or automatically store up to twelve FM stations (six each on F1 and F2), six MW stations and six LW stations.

Manual pre-set tuning

1. Ensure the function indicator is illuminated (see function control).
2. Select the required waveband (F1, F2, MW, or LW) by pressing BAND (2).
3. Tune to the desired frequency using either automatic or manual tuning.
4. Press and hold one of the pre-set buttons for at least 2 seconds until the frequency display starts flashing.
5. Within 5 seconds press the selected pre-set again. The display will stop flashing once the frequency is stored (display shows waveband, pre-set number and frequency or name of the station that has been stored).

Repeat the process to tune all the pre-sets on each waveband.

Automatic pre-set tuning

This feature enables the strongest FM, MW or LW radio stations to be tuned and stored in a single operation - particularly useful if you are in an unfamiliar area and have little knowledge of local transmitter frequencies.

- Select the required waveband (F1, F2, MW, or LW).
- Press and hold the A.M.E control (3) for at least 2 seconds. The radio tuner automatically seeks and stores the six strongest stations on the selected waveband (the display briefly shows 'A - MEMORY' and then changes continually, while the frequency search is in progress).
- When tuning is complete, the radio automatically plays the station stored on pre-set 1 (display shows the waveband, pre-set number and frequency or name of the station stored on pre-set 1).

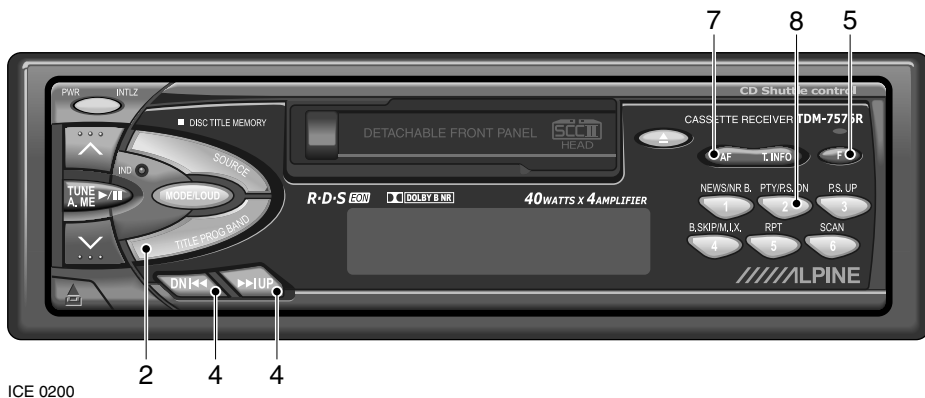
NOTE: Once the pre-sets have been stored, they will be retained by the audio unit until they are re-programmed.

NOTE: Automatic pre-set tuning automatically overwrites any stations already stored on the pre-set buttons.

Operating the pre-sets

Once the pre-sets have been programmed, operation is simple: with the function indicator illuminated (see function control), select the desired waveband, then press the pre-set button of your choice (the waveband, pre-set number and frequency or radio station name appear in the display).

Radio Data System



RADIO DATA SYSTEM (RDS)

Your radio is equipped with RDS, which is being introduced in European countries and operates on the FM waveband only. RDS enables the audio unit to receive other information in addition to radio signals, including:

- *programme service name*: enables the audio unit to display the radio station name instead of the frequency.
- *alternative frequencies for the FM station being received*: enables the audio unit to select the strongest available signal automatically, thereby maintaining the best possible reception.
- *PTY (programme type)*: enables the audio unit to limit frequency selection to stations broadcasting programmes of similar content.
- *traffic or news information*: enables the unit to give priority to traffic or news broadcasts over other radio, tape or CD programmes.
- *emergency alarm announcement*: enables the audio unit to give priority to emergency information broadcasts; e.g. a very serious accident or natural disaster.

- *EON (enhanced other networks)*: enables the audio unit to broadcast traffic information from radio stations other than the one to which it is tuned (provided they are all part of the same, linked, EON network).

NOTE: Not all FM radio stations broadcast RDS. If a non-RDS station is received these features will not be available.

Selecting RDS

Press the left side of the AF button (7) to activate RDS (the 'AF' indicator illuminates). Press again to switch off.

Whenever an FM radio station broadcasting RDS signals is selected, the station name illuminates in the display. The audio unit 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 vehicle travels through different transmitter areas serving the same radio station.

NOTE: If the waveband selector (2) is pressed for more than 2 seconds while a radio station name is displayed, the station name will be replaced by the frequency of the radio station for 5 seconds.

Radio Data System

Local radio stations

Reception of most local radio stations is intentionally limited to a comparatively small area around the transmitter. Once that limit has been reached, it is unlikely that RDS will be able to locate an alternative frequency for the local radio station being received.

The audio unit can be programmed to respond to such an eventuality by either: enabling it to search for an alternative local radio station with a stronger signal (REG OFF), or by preventing any search for a stronger signal (REG ON), in which case the unit will remain tuned to the existing frequency until the signal cannot be received.

To select REG OFF or REG ON:

1. Press and hold the PWR/INTLZ button for at least 3 seconds.
2. Press pre-set button 2 (8) repeatedly until the display shows 'REG OFF' or 'REG ON'.
3. Press the PWR/INTLZ button again to confirm your selection and deactivate the setting mode.

If the RDS signal is weak

Press and hold the AF button (7) for at least 2 seconds; the radio tuner will search for a stronger RDS signal (display shows 'AF SEEK').

If a stronger RDS signal cannot be found, the display will show 'SEEK END'.

PTY (programme type) tuning

This feature enables radio stations to be selected according to programme content (sport, news, pop music etc...).

Before selecting PTY tuning, the function indicator light must be extinguished - if necessary, press the function control (5) to extinguish the light.

1. Press the PTY button (8): the programme type currently being received will be displayed for 5 seconds.
2. Press the DN or UP tuning buttons (4) within 5 seconds of activating PTY to choose the desired programme type: repeated operation of the buttons will cause the different programme types to be displayed in turn (see accompanying list).
3. Within 5 seconds of the desired programme type being displayed, press the PTY button again to search for radio stations which broadcast programmes of the selected type.

NOTE: If no PTY broadcasts are available, 'NO PTY' will be displayed for 5 seconds.

NOTE: If no RDS station can be received, the display shows 'NO RDS'.

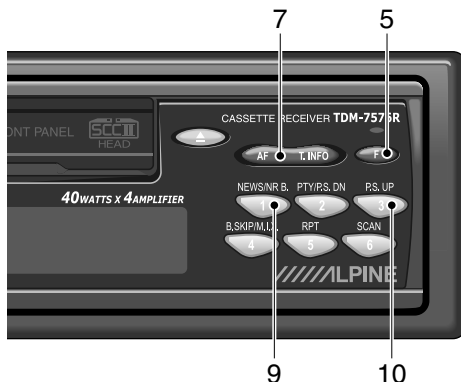
NOTE: If no button is pressed within 5 seconds of PTY being selected, programme type tuning will be cancelled automatically.

PTY (programme type) options

DRAMA	CLASSICS
CULTURE	OTHER M(usic)
SCIENCE	NEWS
VARIED	AFFAIRS
POP M(usic)	INFO
ROCK M(usic)	SPORT
MOR M(usic)	EDUCATE
LIGHT M(usic)	

Traffic & News Information

TRAFFIC & NEWS INFORMATION



CE 0201

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.

Once the traffic or news facilities are selected, all available traffic or news information broadcasts are received automatically, as and when they occur, in priority over other sound sources (including cassette tapes and CDs).

Selecting traffic information

Press the right side of the T.INFO switch (7) to select traffic information (the 'T-INFO' indicator illuminates).

When a radio station is tuned that broadcasts traffic information, the 'TP' (traffic programme) indicator also illuminates. When a traffic information broadcast begins, 'TRF-INFO' flashes in the main display for 5 seconds.

In remote areas, it may be impossible to find a traffic information signal strong enough for good reception. If the signal is too weak, the unit remains in receiving mode for one minute, after which an alarm will sound.

NOTE: In tape and CD play modes the alarm will not sound. Instead, the traffic information station of an alternative frequency will be sought.

Traffic information volume

The volume level at which traffic information is received can be set independently from the other audio functions, as follows:

During any traffic information broadcast, adjust the volume as desired. This volume level will be memorised and all future traffic broadcasts reproduced at this level, regardless of the audio unit's volume setting at the time.

Selecting news information

Before selecting news information, the function indicator light must be extinguished - if necessary, press the function control (5) to extinguish the light.

Press the NEWS button (9) to activate news information broadcasts (the 'NEWS' indicator illuminates when news is selected). During news broadcasts the 'NEWS' indicator flashes in the display.

NOTE: Unlike traffic information, the volume does not increase automatically when news information broadcasts are received.

NOTE: If both traffic and news information have been selected and coincidental broadcasts occur, priority will be given to traffic information.

Traffic & News Information

Switching off information broadcasts

Traffic information: To switch off traffic information, briefly press the T.INFO button (7) (the 'T.INFO' indicator disappears from the display). This action prohibits receipt of further traffic information broadcasts until the button is pressed again.

News information: To switch off news information, press the NEWS button (9) (the 'NEWS' indicator disappears from the display). This action prevents future news broadcasts from being received until the feature is reselected.

Unwanted traffic and news information can be aborted during a broadcast by briefly pressing the appropriate button (7 or 9). In this case, because the feature is being disabled *during* a broadcast, disablement is only temporary - the feature will return as soon as the next traffic or news information bulletin is broadcast.

Traffic and news information broadcasts during tape or CD play

When either traffic or news information modes are selected, CD or tape play will be interrupted automatically by traffic or news information broadcasts as and when they occur.

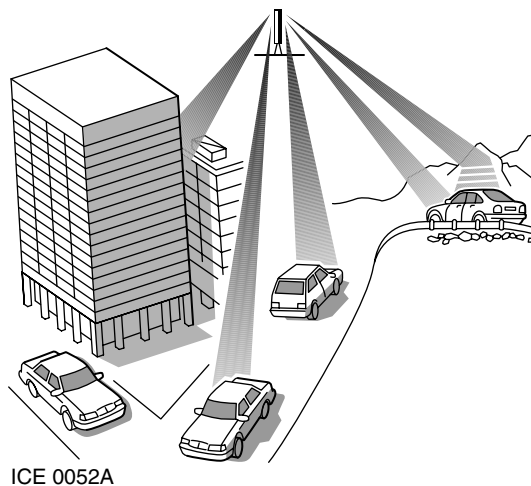
Emergency alarm broadcasts

The radio can also be programmed to broadcast emergency alarm messages, as follows:

1. Press and hold the PWR/INTLZ button for at least 3 seconds.
2. Press pre-set button 3 (10) repeatedly until 'PTY31 ON' appears in the display. In this mode, the radio automatically relays emergency announcements whenever they occur.
3. Press the PWR/INTLZ button again to activate the mode.

NOTE: If 'PTY31 OFF' is selected, the radio will not receive emergency alarm broadcasts.

Radio Reception



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.

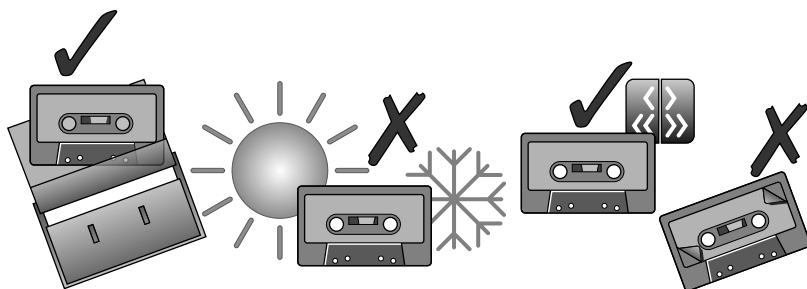
FM transmitters can only broadcast over a limited range and good, clear signals will only be received in the immediate area of the transmitter. While RDS automatic retuning offsets the effects of the car moving from one transmitter area to another, some manual retuning may still be needed (especially 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 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).

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). Before playing, 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 naturally 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.

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

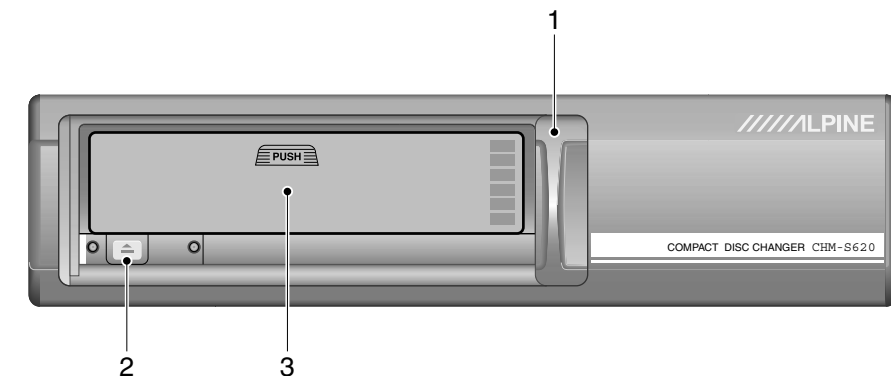
The tape will require more frequent cleaning in winter, as contamination is greater in conditions of low temperature and increased humidity. However, the use of good quality cassettes keeps the build up to a minimum.

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 cassettes in direct sunlight as they may warp and become unusable, or jam the tape player mechanism.
- Fast forward, or rewind cassette 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 cassettes in the player for more than a few hours in very cold or humid conditions - the oxides on the tape surface may contaminate the playing mechanism.

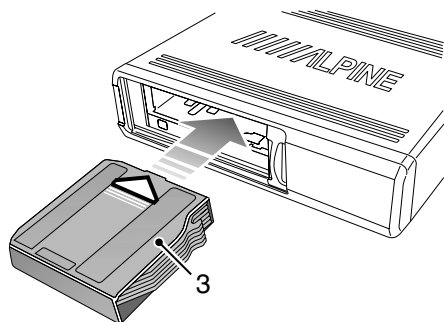
NOTE: *After continuous playing, cassettes may become hot to touch. This is normal and will not harm good quality tape.*

CD Changer Unit



COMPACT DISC CHANGER UNIT*

Removing/inserting the magazine

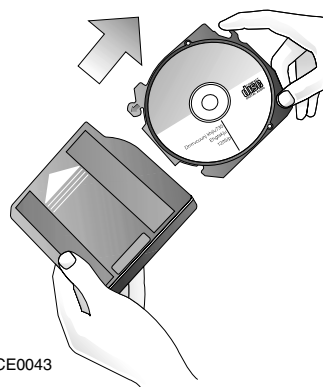


Fully open the sliding cover (1) to insert or remove the magazine. Keep the cover closed at all other times to prevent dust and dirt from entering the changer unit.

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 & unloading the magazine



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.

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.
- 8 cm 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.

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

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!