Electronic Radio
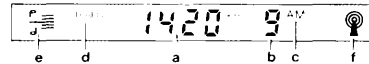
Pushbutton Functions

1 On/Off button [ON___OFF]

2 Volume control [VOLUME]

3 Bass control/left stereo balance [♩]

4 Treble control/right stereo balance [♪]

5 Pushbuttons for AM/FM band selection, station frequency selection, station storage [1FM] through [0AM]

6 Digital display for station frequency (a), station pushbutton number (b), AM/FM band indicator (c), stereo indicator (d), tone setting indicator (e), tuning sensitivity indicator (f), stereo balance indicator (displayed only when balance function is activated)

7 Function control [●]

8 Tuning sensitivity [ℹ]

9 Seek tuning bar [SEEK]

10 Scan tuning bar [SCAN]

11 Manual tuning [∨] (decreasing station frequency)

12 Manual tuning [∧] (increasing station frequency)

13 Cassette track selector with track indicator [●1●2●]

14 Reverse music search/rewind with indicator [R▶M●]

15 Forward music search/fast forward with indicator [●M◀◀]

16 Dolby B and C noise reduction with indicators* [●BDCC●]

17 Tape equalization with indicator [CR●]

18 Cassette eject [▲]

19 Cassette door

To turn the radio ON

Press "ON" side of [ON___OFF] button. The radio will begin operating on the last station, volume and tone setting stored before last switching it off.

The system can also be turned on by inserting a cassette through the cassette door into the unit.

To turn the radio OFF

Press the "OFF" side of the [ON___OFF] button. The radio turns off automatically when the key is turned back to position 0.

* Dolby and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

  Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

Volume adjustment

To reduce volume, press the volume control button ▮▮▮▮▮ downward; to increase volume, press the button upward.

The left to right stereo balance may be adjusted by first pressing the function control button ▮▮ and then pressing the bass control button ▮▮ or the treble control button ▮▮ . This will cause the stereo balance to shift either left or right respectively.

To center the left to right stereo balance, briefly press both buttons ▮▮ and ▮▮ simultaneously.

The stereo balance setting will be displayed (as shown below) when the balance feature is activated. The magnitude of the setting is shown by a number from 0 to 8. Bracketing this number are two arrows indicating the direction of the setting. For example:

<0> = null or centered balance
<5 = balance shifted 5 units left
 7> = balance shifted 7 units right.

To adjust the tone characteristic

Bass ▮▮ and treble ▮▮ can be adjusted independently.

To set the radio to a "flat" tone setting (bass and treble at mid-range setting), briefly press both tone control buttons ▮▮ and ▮▮ simultaneously. The tone setting indicators display the selected mid-range setting:

$\dfrac{P}{J}\equiv$ = Mid-range Setting

Upon pressing either tone control button (either ▮▮ or ▮▮), the bass or treble will increase until the respective tone control button is released or when the maximum tone level is reached.

$\dfrac{P}{J}\overset{\equiv}{=}$ = Maximum Treble

$\dfrac{P}{J}\underset{\equiv}{=}$ = Maximum Bass

After reaching the maximum tone level, the tone setting will stay at that level unless the tone control button is released and pressed again, at which point the tone level will begin decreasing. It will stop decreasing when the tone control button is released or when the minimum tone level is reached.

$\dfrac{P}{J}{=}$ = Minimum Treble

$\dfrac{P}{J}{=}$ = Minimum Bass

After reaching the minimum tone level, the tone setting will stay at that level unless the tone control button is released and pressed again. After pressing the tone control button again the tone level will begin to increase and the cycle is repeated.

Note: It takes approx. 5 seconds to go from minimum tone level to maximum tone level.

This radio has 3 tone setting memories, one each for AM, FM and cassette. The individual tone setting for each mode will be automatically stored.

Operation

51

To select AM or FM

Press any of the buttons marked **[1FM]** through **[6FM]** to tune the radio to the FM band.

Press any of the buttons marked **[7AM]** through **[0AM]** to tune the radio to the AM band.

The selected wave band is indicated in the digital display.

To tune-in a station

Stations can be tuned-in by using seek/scan tuning, direct frequency tuning, manual tuning, or by preset pushbuttons. The frequency of the station selected is indicated in the digital display.

Seek tuning

Switch to the desired wave band, press the seek tuning bar **[SEEK]** upward to automatically seek stations in ascending frequencies, press downward to do so in descending frequencies. In order to arrive at a desired station without stopping, the bar must be held in the desired direction.
The direction of seek tuning can be reversed by pressing the bar **[SEEK]** in the respective direction.

Scan tuning

Switch to AM or FM, then press the scan tuning bar **[SCAN]** to automatically tune to the first station broadcasting within the selected reception sensitivity level. This station is held for "auditioning" for approx. 5 seconds. If desired, this station may be locked in by pressing the **[SCAN]** or **[SEEK]** bar. If neither of the bars is pressed, the radio will continue to scan to each station within the selected sensitivity level and "audition" each station for approx. 5 seconds.
By pressing the scan tuning bar **[SCAN]** upward the radio will scan stations in ascending frequencies, by pressing downward it will do so in descending frequencies.

Tuning sensitivity button

By pressing the tuning sensitivity button **[ ]** once or twice, you can select the desired sensitivity level for seek/scan tuning. The sensitivity indicator displays the selected sensitivity level:

î = least sensitive (the automatic station seeker/scanner stops only at strong stations)

î = average (the automatic station seeker/scanner stops at strong and moderate strength stations)

î = most sensitive (the automatic station seeker/scanner also stops at weak stations)

If no stations are located by the seek or scan functions during one complete pass through the selected wave band, the tuning sensitivity will automatically switch to the next higher sensitivity level and be indicated as shown above.

When switched off, the radio returns to the "least sensitive" level.

Note: The tuning sensitivity button has no influence on reception quality, only on the sensitivity of station selection during the automatic station seeker/scanner modes.

Direct frequency tuning

In order to select a station with a known frequency, select the wave band (AM or FM), press the function control button ▆ and then enter the frequency by pressing the corresponding pushbuttons.

	FM 98.5 MHz	AM 1050 kHz
Example:		
Press any button marked	🔘 through 🔘	🔘 through 🔘
Press the function control button	🔘	🔘
Enter frequency by pressing	🔘 🔘 🔘	🔘 🔘 🔘 🔘

When tuning a frequency directly, the pushbutton number is not displayed on the panel. The wave band is indicated by showing "MHz" for FM or "kHz" for AM.

Note:
All AM stations have allocated frequencies ending with a "0".
All FM stations have allocated frequencies ending with an odd-numbered digit following the decimal point.
Broadcasters sometimes may not give their exact frequency but the next closest whole number.

US radio frequency ranges:

AM 540–1600 kHz
FM 88.1–107.9 MHz

Please note: It is recommended that direct frequency tuning operations be performed by the driver only while the vehicle is not moving. The driver should use the automatic station seeker/scanner or pushbutton tuning when the vehicle is in motion.

Manual tuning

(For fine tuning a station or for manual tuning)

After selecting the desired AM or FM wave band, press the manual tuning button 🔘 (decreasing station frequency) or 🔘 (increasing station frequency).

The frequency will increase or decrease respectively in increments of 0.1 MHz for FM or 1.0 kHz for AM. Release the button when the desired station is tuned in.

Pushbutton tuning

Six FM stations and four AM stations can be stored in memory and recalled by pressing the appropriate buttons marked 🔘 through 🔘 for FM or 🔘 through 🔘 for AM stations.

Operation

53

To store stations in memory

Any FM station can be stored on any button marked **1FM** through **6FM** by first tuning in the desired station, depressing the button desired and holding it until the display has changed from the "old" setting to a "blank" and then to the new station to be stored.

Showing the "old" setting first allows for reconsideration of the decision to store. If it is desirable to leave the "old" station in memory rather than exchanging it with the "new" one, quickly release the button. The "old" station will remain in memory.

Any AM station can be stored similarly on any button marked **7AM** through **0AM** .

Stereo reception

The stereo indicator **STEREO** lights up if a stereo program in the AM or FM band is received.

Note: The radio receives AM stereo programs which are broadcast via the C-Quam®* AM stereo system.

The radio is equipped with an automatic stereo/mono blend switch that electronically switches to mono for clear reception if a weak signal is received.

The stereo indicator will remain lit even if the receiver has changed to the mono mode and will turn off at an antenna signal considered insufficient to provide acceptable reception quality.

Although FM is normally static free, reception quality can be limited by geographic and atmospheric conditions, station strength and distance from the transmitter. Buildings or other obstructions can cause momentary static, flutter or station swapping. If good reception cannot be obtained, tune to a stronger station.

In the event that it is important to listen to a weak station or to a strong station that is masked by terrain-induced noise or interference problems, the following steps can be taken to increase the listenability of the station.

Fringe area AM and FM reception of weak stations can be improved by first insuring that the antenna is at its maximum height and then reducing the treble and bass settings as required to filter out as much background noise as is needed.

FM noise problems that are caused by urban and hilly conditions may be reduced by lowering the treble setting until the pops and hisses associated with this type of terrain are reduced to acceptable levels.

AM reception difficulties caused by strong adjacent stations or nighttime atmospheric conditions may be reduced by fine tuning the selected station with the two fine tuning buttons.

The tuning sensitivity button **1** has no influence on reception quality.

---

* C-Quam is a registered trademark of Motorola, Inc.

TAPE CASSETTE PLAYBACK

Cassette player operation

It is recommended to use only high quality cassettes with a playback time of not more than 90 minutes (C 90).

To play a cassette, insert the cassette (tape side first, side "1" or "A" facing up) through the cassette door. Gently push the cassette into the slot until the motorized-loading system engages the cassette. The unit will then switch from radio to cassette playback.

Automatic tape tensioning will take up any possible tape slack before the beginning of playback.

A switched-off unit can be automatically turned-on by loading a cassette.

Track selection

When the end of the first track is reached, the unit automatically reverses to play the second track. The tape track can also be selected by briefly pressing the cassette track selector button █1·2█. The track selected is indicated by the respective indicator lamp in the button.

Forward music search/fast forward

To engage the forward music search feature, press the forward music search/fast forward button █M◄◄█ once. The forward music search begins to advance the tape to the next music selection. The indicator lamp in the button █M◄◄█ lights up. There must be a minimum pause of 4 seconds between selections for the music search feature to determine the beginning of the next music selection.

Music search can be interrupted by pressing the reverse music search/rewind █►►M█, track selector █1·2█ buttons or by pressing the forward music search/fast forward button █M◄◄█ again after approx. 3 seconds.

To fast forward the tape, press the forward music search/fast forward button █M◄◄█ twice. The indicator lamp in the button █M◄◄█ blinks. Upon reaching the end of the tape, the unit will automatically reverse to play the other track.

Fast forward can be interrupted by pressing the reverse music search/rewind █►►M█, track selector █1·2█ buttons or by pressing the forward music search/fast forward button █M◄◄█ again after approx. 3 seconds.

Reverse music search/rewind

To engage the reverse music search feature, press the reverse music search/rewind button █►►M█ once. The reverse music search begins to rewind the tape to the previous music selection. The indicator lamp in the button █►►M█ lights up. There must be a minimum pause of 4 seconds between selections for the music search feature to determine the beginning of the previous music selection.

Music search can be interrupted by pressing the forward music search/fast forward █M◄◄█ or track selector █1·2█ buttons and by pressing the reverse music search/rewind button █►►M█ again after approx. 3 seconds.

To rewind the tape, press the reverse music search/rewind button █►►M█ twice. The indicator lamp in the button █►►M█ blinks. Upon reaching the beginning of the tape, the unit will automatically replay the same track. The unit will not reverse to the other track.

Rewind can be interrupted by pressing the forward music search/fast forward █M◄◄█ or track selector █1·2█ buttons and by pressing the reverse music search/rewind button █►►M█ again after approx. 3 seconds.

Operation

Dolby B and C noise reduction

To replay cassettes recorded using the Dolby B or C noise reduction systems, press the Dolby NR button ▨▨▨▨ repeatedly until the desired type of Dolby noise reduction (Dolby B or Dolby C) is attained. This reduces tape hiss. The indicator lamps in the button indicate the type of Dolby noise reduction selected. To replay cassettes not recorded in Dolby, press the button ▨▨▨▨ repeatedly until the indicator lamps in the button ▨▨▨▨ go out.

Tape equalization

For optimum reproduction quality it is necessary to select the correct tape equalization for the particular type of tape being used. Press the tape equalization button ▨▨▨ only when playing Chromium dioxide (CRO$_2$) or "metal" cassette tapes. The indicator lamp in the button will illuminate when CRO$_2$ or metal equalization has been selected. For all other types of tape, do not press the tape equalization button ▨▨▨ . The indicator lamp in the button ▨▨▨ remains off.

Cassette eject

To remove a cassette, press the eject button ▨▨▨. Remove the tape after the motorized-loading system has disengaged the cassette. The unit will automatically switch from cassette playback to radio operation.

When the unit is turned off by pressing the "OFF" side of the On/Off button ▨▨▨▨▨ or by turning the key to steering lock position 0, the cassette will automatically eject.

Care and maintenance

To avoid deterioration of the tone quality, periodically clean the tape head with the special cleaning tape kit available at your authorized MERCEDES-BENZ dealer.
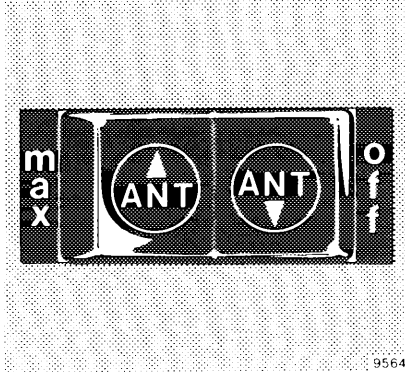
Cassette tapes should be properly stored when not in use. It is recommended that cassettes be stored in a cassette box designed to prevent unwinding and the accumulation of dust.

If the cassette ejects during playback, this may be caused by binding of the tape in the cassette. To eliminate this condition, fast forward the cassette to the end of the track and then rewind to the beginning of the track.

Protect cassette tapes from direct sunlight or other temperature extremes.

Radio anti-theft protection

Removal of the radio with the vehicle anti-theft alarm armed will render the radio inoperative indicated by a dashed line across the display.

Automatic Antenna

The antenna switch can be actuated with the radio switched on.

● If the antenna switch is engaged in the "max" position, the antenna extends fully.
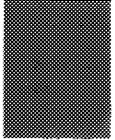
Note:

For most conditions the antenna should normally be in this position.

● If the antenna switch is in the center position, the antenna extends automatically to medium height,

● if the antenna switch is engaged in the "off" position, the antenna will not extend or will retract completely.

The height of the antenna can be adjusted to any intermediate position by actuating the antenna switch:

● If the antenna switch is in the center position, the antenna will extend to medium height. The antenna can be further extended or retracted to any height by rocking the switch (not engaging it).

● If the antenna is to be retracted, e.g. going through car wash, etc., engage switch in "off" position.

When the key is turned to steering lock position 0 or the radio is turned off, the antenna will retract completely.

Operation

57