



Alfa 166

ICS

INTEGRATED CONTROL SYSTEM



This annex is an integral part of the Owner's Manual and describes all the functions of the Alfa Romeo I.C.S. system supplied as standard or optional for versions/markets where applicable.

Overleaf you will find the system control panel for your reference.

In the pocket of the third page of the cover you will find a folder which summarises the main functions for immediate use of the system. To learn how to use all the functions of the Alfa Romeo I.C.S. system you should however read through the whole of this annex.

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1. INTRODUCTION AND SET UP

Important instructions for use and safety and traffic safety

The Alfa Romeo I.C.S. (Integrated Control System) makes the driver's task easier in controlling the main functions of the vehicle.

In order to avoid creating danger for yourself and for others when using your I.C.S., please pay attention to the following points:

- use of the cell phone is prohibited near explosive substances;
- the I.C.S. system must be used when you are in full control of your car; in the event of doubt, stop to carry out the different operations.

The navigation system allows you to reach your destination through the traffic and indicates to you any change of route memorised on the navigation CD. In fact the system takes account of all information concerning the roads when calculating the route, advising the best way. However, it does not take into consideration traffic conditions or sudden obstructions or any other inconvenience.

The Alfa Romeo navigation system helps driver while he drives, by suggesting vocally or graphically, the optimum routing to reach his preset destination.

WARNING: Navigation system suggestions do not excuse driver from his full responsibilities due to his driving behaviour and to his compliance with road and other traffic regulations.

The responsibility for road safety always lies with vehicle driver, and it falls on him in any case.

All manoeuvres must be carried out abiding by the highway code, regardless of the advice given by the navigation system. Should you leave the recommended route, the I.C.S. system will calculate a new one for you and suggest it to you.

1.1 I.C.S.: ALFA ROMEO ENHANCED COMFORT AND FUNCTIONALITY

The I.C.S. controls and offers information for the following systems:

- Climate control
- On-board computer

- Audio
- Audio with DSP* system and CD* player
- Telephone*
- Navigation*

*Optional for versions/markets where applicable.

The interface is the multifunction information display for all the integrated components. The I.C.S. offers optimum functionality, allowing the driver to interactively receive clear instructions structured according to the single groups of the I.C.S. units, thereby providing you information about all the possibilities offered by your I.C.S. system.

1.2 GENERAL INSTRUCTIONS FOR USE

The I.C.S. can easily be used by both driver and passenger through the multifunctional information display.

Multifunctional information display

The colour display comprises a 5" LCD screen (approx. 7.5 x 10.3 cm) with active matrix. During the day the display brightness can be set in relation to the brightness of the passenger compartment, while during the night, with the vehicle lighting system working, the colours used for the screen can be adapted to optimise display visibility.

Controls

The I.C.S. controls and functions are described in the folded page inside the cover. Getting acquainted with a few controls will allow you to use all the integrated functions completely integrate.

Use of the I.C.S.

The I.C.S. display shows the single pages of the functions of the integrated units. Each page displays on the screen information about the current system status. Using the cursor you can select the elements and items of the lists required and carry out the functions selected. The cursor is moved using the knob **11** on the right bottom part of the I.C.S.. Lightly pressing the knob **11** the corresponding function selected activated.

Main function keys **22, 23, 24, 25, 26 and 27**

It is possible at all times, regardless of the level the system is in, to pass from one main function to another.

Returning to the starting function returns to the same point and same level as before.

From a lower function page, you can move to the first page pressing the main function key of the function.

Selecting “Go back”

To move from one function page to the previous page displayed, select “Go back”.

Cancelling selection of the list

If a list is selected by mistake, this can be corrected as follows:

- If you want to carry out other operations after exiting the list, select either the last item selected or any other item, staying in the same function page;
- once a determinate function has been performed automatically (for example saving settings) press the main function key of the current function **22, 23, 24, 25, 26** or **27**, thereby returning to the corresponding first function page.

Darkening function (anti-glare)

The DARK key **13** switches the I.C.S. display on or off.

Cancelling or suspending the darkening function

Starting from the dark screen:

— with the main function keys **22, 23, 24, 25, 26, 27** the screen lights up and the main function selected is activated, regardless of the previous page setting;

— with the DARK key **13** or the knob **11** the screen lights up showing the function page displayed previously;

— with all the other keys or with the volume control **21** the screen is darkened when performing the associated function;

— if the limits set are exceeded, the limits screen appears for approx. 3 seconds, followed by darkening of the screen.

“Correct” function and correction field “C”

To correct a selection, select the item and use the knob **11** with two different times:

— for less than 1 second: to delete the last entries;

— for more than 1 second: to delete the contents of the entry field.

1.3 TURNING THE I.C.S. ON/OFF AND STAND-BY FEATURE

1.3.1 Turning the engine on/off

The I.C.S. is turned on and off automatically turning the ignition key to **MAR** or **STOP** respectively.

1.3.2 Through the volume control

The I.C.S. is turned on and off (also with the ignition key off) pressing the volume control **21**.

With the ignition disabled, the I.C.S. automatically turns off after 1 hour, to avoid draining the battery.

1.3.3 Stand-by feature

The stand-by operating condition corresponds to dark screen and volume off.

During operation and with the ignition on, the I.C.S. can be set to stand-by pressing knob **21**. In this condition the system works invisibly and the telephone is ready to receive a call.

If a limit activated is exceeded during stand-

by the corresponding warning message is displayed.

Switching the I.C.S. on again

To switch the I.C.S. on again, proceed in one of the following ways

- press knob **21**;
- answer a phone call pressing the receiver key **16**;
- press one of the main function keys **22**, **23**, **24**, **25**, **26** and **27**;
- press the MAP key **12**;
- press or turn knob **11**;
- press the DARK key **13**;
- insert the SIM card.

1.4 UNIT AND NAVIGATION CODE

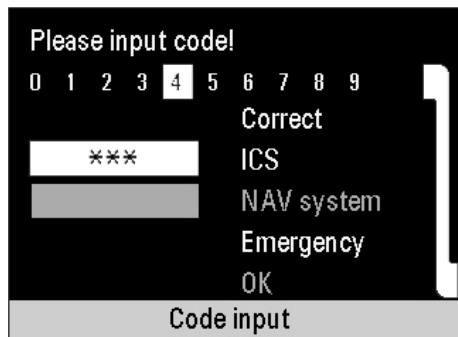
The I.C.S. system and the integrated navigation system are each protected by a specific access code.

Both codes must be entered at the first time of turning on, firstly entering the I.C.S. code.

If a power failure occurs (e.g. battery replacement or a blown fuse) it is necessary to enter the I.C.S. code and the integrated navigation code again.

Code entry

1. Switch on the I.C.S.
2. The prompt to enter the I.C.S. code is displayed.
3. The I.C.S. code to be entered is formed of 4 digits which are entered and confirmed through knob **11**: the digits are selected turning the knob and pressing to confirm. After entering the I.C.S. code select "OK".
4. Similarly, now the NAV code can be entered to activate the navigation system. If the NAV code is not entered, the other system



1.A.

functions are still available (telephone, on-board computer, sound system, main screen and climate control).

5. To correct any entering mistakes, move the pointer to "Correct" pressing the knob:

- for less than 1 second: to delete the last digit entered;

- for more than 1 second: to delete the whole contents of the entry field.

Then enter the correct number.

Entering a wrong code

The entry of three wrong codes consecutively will lock the system for about 10 minutes. Another 3 wrong entries block the system again for about 10 minutes. At the third set

of wrong entries, and for subsequent terms of errors, the system will be blocked for about 60 minutes.

The I.C.S. system emergency call function will however remain enabled.

Warning The I.C.S. and NAV codes are part of the system documentation and should be kept with due care for security reasons (not in the car).

1.5 BRIEF INSTRUCTIONS FOR THE I.C.S.

The I.C.S. system has a very simple and intuitive interface: therefore the few instructions given below are all you need to be able to quickly get acquainted with and use the different functions. In use of the system follow the instructions that appear on the screen.

The items that cannot be selected are always shown in grey.

To learn about and better understand the other functions you are advised to read from chapter 2 to 7.

1.5.1 Main screen (MAIN)

The main screen (MAIN) is obtained pressing key **22** on "MAIN": this video page accesses the following information:

Time display

Outside temperature display

Radio

- display of wavelength and station selected;
- display of broadcaster name or frequency;
- display of abbreviation "TP" for traffic information bulletin.

CD player

- display of CD number and track number.

Cassette player

- display of CASSETTE with direction of tape.

Telephone

- display of operator's name through which the phone network is accessed;
- display of measured field intensity;
- display of details of telephone connection (name, phone number to which you are connected and duration of current conversation).

Navigation

- display of suggestion of direction;
- display of suggested navigation parameters (distance at which a change of direction is advised);
- display of name of suggested road;
- display of name of current road.

1.5.2 Audio system (AUDIO)

The audio function screen is obtained pressing key **23**.
The functions available are:

General information

- volume adjustment function with key **21**;
- sound setting adjustment function (treble, bass, etc.) selecting "Settings" of the main audio function page (note: SDV stands for Speed Dependent Volume);
- sound setting adjustment function DSP (Digital Sound Processing) selecting "Settings" and then "DSP";

Radio

- AUTO BEST function, i.e. the I.C.S. automatically selects the channel required on the frequency with the best signal;
- radio wavelength selector function (UKW, FM, MW) with keys **3** or **4**;
- broadcasting station memorising function with keys from **5** to **10**, pressing for more than 2 seconds;
- station recall function with keys from **5** to **10**, but pressing them for less than 2 seconds;
- automatic station seek function pressing buttons **19** or **20**;

— manual frequency setting function turning knob **11**;

— traffic information receiving function selecting "TP" on/off;

Cassette player

- play function (play), inserting the cassette in the slot;
- play function pressing key **2** when the cassette is already in;
- fast-forward in both tape directions with keys **19** or **20**;
- play after fast forward pressing keys **19** or **20** again;
- eject cassette pressing key **17**;

CD player

- play function pressing key **1**;
- select CD pressing keys from **5** to **10** for loader with 6 CDs;
- quick move to next piece pressing keys **19** or **20** for less than 1 second;
- quick move to subsequent tracks pressing keys **19** or **20** for more than 1 second;

- play the beginning of each piece (scan) and random selection (shuffle) through the corresponding selectors.

1.5.3 Telephone (TEL) (optional for versions/ markets where applicable)

General information

Press key **24** to access the Telephone functions.

SIM card and PIN entry

- the telephone is enabled to send and receive only after inserting the SIM card and entering the PIN code as indicated on the monitor.

Warning The SIM card must be removed when the unit is off to avoid damage and data loss.

Emergency call function

The emergency call function is always enabled whether the SIM card is in its slot or not. This function is accessed through:

- “emergency call” automatic dialling;
- manually dialling the emergency number.

Manual dialling

The manual dialling function of the main telephone function page makes the following operations possible:

- entry of the number to be dialled turning and pressing knob **11**;
- number calling pressing the receiver key **16**;
- end of telephone connection pressing key **16** again.

Other functions

See chapter 4. Telephone (TEL).

1.5.4 Navigation (NAV) (optional for versions/ markets where applicable)

General information

The navigation functions are accessed pressing key **25**.

Entering the destination

- “Destination” on the main function page;
- “Address” on the “Select destination” page;
- destination address entry (through “City”, “Str.” and “No.” fields) turning and pressing knob **11**;
- route calculating function selecting “Guidance” (destination guide);
- destination alternative items entering “Intersection”, “Points of Interest” (places memorised previously on the I.C.S. system), “Destination memory” (destinations memorised previously on the I.C.S. system) or “Recent destinations” (memorised automatically) instead of the “Street address” field.

Route selection

- “Route” selection on main function page;
- select the criteria for choosing the route turning knob **11**.

Guide to destination

- guidance through visual signals (arrow with message to change direction, arrow with direction of destination, indication of distance

and name of street to take) and acoustic signals (voice instructions);

- function for listening again to the last voice instruction using the REP key **15**;

- the road map is shown selecting the MAP key **12**;

- the map display dimension is changed turning knob **11** or selecting “Zoom +” and “Zoom —” from the list displayed temporarily pressing knob **11**;

- other items relating to “Map display” can be selected pressing knob **11** and selecting from the list which disappears automatically.

Other items on the main navigation function page

- “Volume” of navigation system acoustic instructions;

- “Info” (information) concerning the destination, correct position and GPS reception.

Other functions

See navigation (NAV) in chapter 5.

1.5.5 On-board computer (TRIP)

General information

The computer functions are accessed pressing key **26**.

The computer supplies data concerning the journey and system settings which can be changed selecting “Settings” with knob **11**:

- language selection;
- consumption display selecting unit of measurement;
- distance to destination display set with choice of unit of measurement (km or miles);
- temperature display selecting unit of measurement (°C or °F);
- activation function with visual and acoustic signal when the set speed limits are exceeded;
- day/time display based on the GPS system, with selectable time zone and summer time;
- display setting functions.

1.5.6 Climate control unit (CLIMA)

General information

The climate control unit (CLIMA) functions are accessed by:

- pressing key **27**;
- manually changing the settings of the heating/climate control adjustment, if another function page was activated previously.

More important information:

- inside temperature setting display;
- fan setting symbol display;
- air distribution symbol display (wind-screen, centre vehicle, floor);
- maximum defrosting on/off symbol display;
- conditioner compressor on/off condition display;
- air recirculation on/off symbol display;
- “MANUAL” or “AUTO” warning display for setting manual change or automatic operation.

1.6 I.C.S. MAINTENANCE

The I.C.S. requires some careful attention to keep it in full working efficiency:

- the monitor is sensitive to scratches, liquid detergents and UV rays;
- the unit may be damaged beyond repair if liquids get into it.

Advice for cleaning

The I.C.S. should be carefully cleaned periodically using a soft, clean, dry cloth.

Warnings

- In the event of a fault the I.C.S. system must only be checked and repaired by Alfa Romeo Authorised Services.
 - If the temperature is particularly low, the monitor reaches the optimum brightness after a certain operating time.
- Contact Alfa Romeo Authorised Services for updated map data. The use of updated data could also involve system update with respect to what contained in this manual.

1.7 SYSTEM SOFTWARE UPDATING

The system software can be updated as soon as new versions for the I.C.S. software and for the navigation module software are available. The new software loading operations take place automatically when a new navigation CD ROM is inserted, also with the ignition key off.

Contact Alfa Romeo Authorised Services for updated map data. The use of updated data could also involve system update with respect to what contained in this manual.

Software updating can be identified in two ways:

- display of the associated signalling messages on the main screen MAIN or on the main navigation page;
 - display of a rectangle in the centre of the monitor and indication of the progress of the loading process with its gradual filling. The two loading phases display the rectangle twice.
- Any fault found during loading is given under the rectangle.

Warnings

- During navigation software updating only the I.C.S. functions are available.
- The software updating process should be carried out with the vehicle stationary, to allow quick determination of the current position.
- The software updating process can require several minutes.

Indication of the current I.C.S. software version

The data referring to the I.C.S. software, navigation software and map versions can be displayed selecting the climate control display page and pressing knob **11** for at least 1 second.

2. MAIN DISPLAY (MAIN)


General information

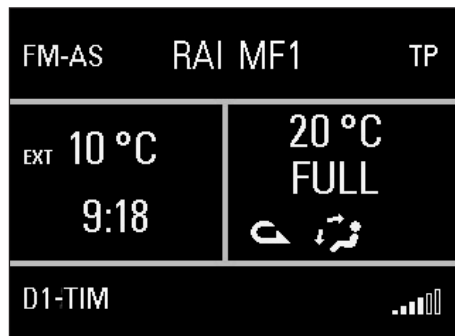
The main display shows the more important data of the I.C.S. system and of the manoeuvres recommended by the navigation system without options.

The MAIN display appears pressing key **22** (dwg. 2.A).

Main display items

Radio

- band and station selected;
- station name or frequency after tuning;
- frequency only during station seeking;
- “TP” abbreviation if traffic information reception is activated;
- “TP” abbreviation and symbol  if traffic information reception is not activated;



2.A.

- “Warning TP” during a traffic information bulletin;
- seeking in progress is shown by “Scan”.

CD player

- CD number (between 1 and 6 for CD loaders with 6 CD) and track number (number of piece being played);
- “TP” abbreviation if traffic information reception is activated.

Cassette player




- “CASSETTE” with the corresponding function symbols:

- tape playing in both directions;
- tape fast forward in both directions;
- pause “II”;
- “TP” abbreviation if traffic information reception is activated.

Source change or CD selection

- display of warning “No CD player” or “No CD” or “No cassette” depending on the circumstance.

Telephone

- name of the network provider and reception signal intensity;
- name or phone number and duration of the conversation during a telephone connection;
- symbols associated with the telephone settings:
 -  ring tone off
 -  “transfer” function activated
 -  “disable” function activated

 telephone not active or no network access

 SMS message received, unread;

— warning “No card” if the SIM card has not been inserted;

— warning “Please enter your PIN” or “Faulty card” or “Seeking network” or “Emergency call” or “Enter PUK” depending on the circumstances;

— warning “Dialling interrupted” if receiver key **16** is pressed again during dialling;

— warning “End of call”;

— warning “No connection” if connection is cut off by the network;

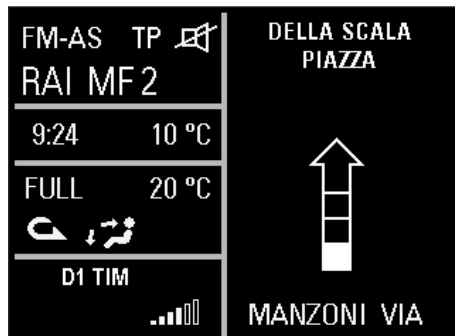
— “Busy” warning;

— warning “Call not accepted”;

— “Temperature” warning if the permissible operating temperature is exceeded.

Time

— time display “hh:mm” with 24 or 12 hour system, in the latter case specifying “AM” or “PM”.



2.B.

Outside temperature

— outside temperature display in °C o °F.

Navigation deactivated

— warning “Guidance to destination off”;

— warning “Insert navigation CD” if necessary.

Navigation activated

— warning “Start navigation system”, when the navigation system is loading the data;

— warning “Insert navigation CD” if required;



2.C.

— graphic display of next manoeuvre;

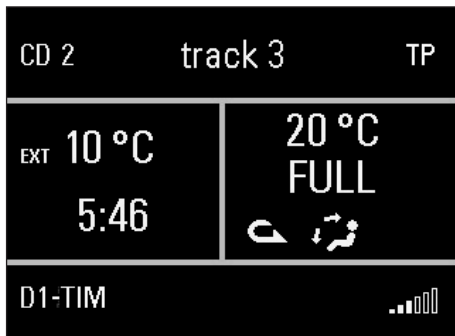
— display of distance from next manoeuvre;

— name of recommended road for reaching the destination;

— name of the road now on.

Example A. Radio, navigation system and telephone are active

Display of radio settings concerning type of modulation and channel on which the station received is memorised, Traffic Information deactivated, telephone field intensity and name of network provider, outside temperature, time, navigation system guidance advice with the name of the road now on and the name



2.D.

of the next road to be taken in accordance with the suggested route.

Example B. Radio, navigation system and telephone are active during a telephone call

While receiving a phone call, the information concerning the radio station is replaced by the fields of the number and name of the subscriber called and the duration of the conversation in minutes and seconds.

Example C. Telephone and CD player are active

Display of the number of the CD in the CD loader, number of current title on the disc, Traffic Information activated, telephone network provider, field intensity, time, outside temperature and warning.

3. AUDIO SYSTEM (AUDIO)

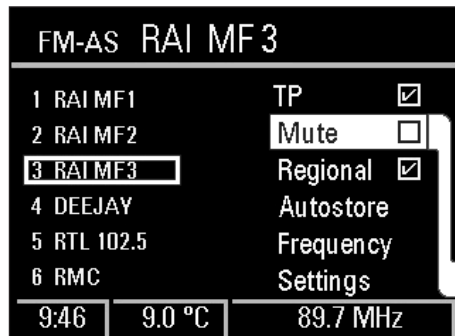
General information

The audio system is activated pressing key **23** with which access is gained to the main radio functions. The I.C.S. audio system controls:

- the RDS radio with FM/MW reception;
- the cassette player with autoreverse;
- the automatic CD loader with six available slots (optional for versions/markets where applicable);
- the DSP amplifier (optional for versions/markets where applicable).

Screen items and functions

- wave band selector function (FM, MW) through keys **3** and **4** respectively;
- display of name of broadcaster and number of station memorised;
- function for memorising up to 36 radio stations (18 for FM range and 12 for MW range);



3.A.

- display of pause symbol in cassette mode;
- display of direction of tape with different symbols depending on winding speed;
- display of symbols for CD and cassette;
- display of CD number, title number and playing time;
- scan and shuffle function;
- Dolby B NR function for suppressing noise when listening to tapes;
- stand-by engagement function for traffic information bulletins (TP) with possibility of deactivation;

— sound setting functions: loudness, treble, bass, balance, fader and SDV (volume depending on speed);

— Digital Sound Processing DSP function (optional for versions/markets where applicable);

— display of status signals, such as current time, outside temperature, etc.

3.1 RADIO FUNCTIONS

RDS system

The radio system integrated in the I.C.S. makes it possible to receive RDS (RDS = Radio Data System) signals in the UKW range.

With the RDS system the broadcaster can insert additional information (station name or messages) suitably modulating then with the radio signal. This information is then received by the RDS system and shown on the display.

AUTO BEST function

When receiving a radio channel with the AUTO BEST function it is possible to obtain a low signal/noise (S/N) ratio, automatic seeking and tuning on alternative frequencies where the chosen radio station is broadcast-

ing with a better S/N ratio. When seeking a new tuning frequency broadcasting may be briefly interrupted temporarily.

The AUTO BEST function is activated automatically when the radio function is selected or when a station is selected through a choice key and when the cassette player or CD player is working.

All the RDS broadcasters show their name or message on the display. The current reception frequency is only displayed if information about the name of the station tuned is not.

EON (Enhanced Other Network)

The radio integrated in the I.C.S. system can receive EON information.

The signals concerning the EON infotraffic system make reception possible from radio channels, on which you are not tuned at the moment, information about the traffic and roads, interrupting the programme of the chosen station. This function, available to RDS channels can be disabled according to preference.

Example: programme set RTL - RAI infotraffic programme

If the infotraffic function is enabled while listening to a programme on the RTL station and in that moment a traffic bulletin is broadcast on the RAI channel, the system moves automatically from RTL to RAI. At the end of the traffic bulletin it automatically returns from RAI to RTL.

3.1.1 Radio main function page

The main functions are arranged so as to allow the clear and simple display of information concerning the radio system. When the radio is operating (CD or CC not activated) the wave band, name or frequency of the current station are displayed. The list of memorised stations and the selection modes "TP" (Infotraffic), "Mute", "Regional", "Auto-store", "Frequency" and "Settings" are also displayed. In the lower part of the display shows general information such as the time, outside temperature, frequency or other current status information.

"TP" ☐

The traffic information box (TP) deactivated

indicates that you do not want to receive traffic bulletins. Station seeking will no longer indicate whether it is a TP broadcaster and CC and CD playing will not be interrupted by traffic information.

"TP" ☒

The traffic information box (TP) activated with knob **11** indicates that you want to receive traffic bulletins. Automatic seeking selects a TP broadcaster and displays this prerogative: CC and CD playing will be interrupted by any traffic bulletins. The abbreviation "TP" appears on the MAIN page.

TP bulletins in progress can be interrupted pressing the volume control **21**. Volume adjustment of a TP bulletin is independent of the audio source (radio, CC, CD) and is obtained using the volume control **21** during a TP bulletin.

"Mute"

The "Mute" function can be selected only if TP is enabled and a TP station is set. When the "Mute" function is activated only traffic bulletins will be heard. The radio "Mute" function is disabled turning the volume control **21**.

“Regional”

The “Regional” function is automatically displayed if the radio programming of a terminate station is broadcast locally. In this case the AUTO BEST RDS function does not seek a station with a high S/N ratio but continues to broadcast the local channel selected. Reception of local channels can be deactivated selecting “Regional” again making it possible to move to different local stations depending on the best S/N ratio.

Warning The AUTO BEST RDS function operates at national level. Moving to different regional stations may therefore occur. In this case it is necessary to reactivate the “Regional” function.

“Autostore”

The “Autostore” is active only by selecting the FM wave band with button **3**. This function makes it possible to automatically start the memorising of 6 stations on 6 FM memorising buttons available. Selection takes place on the basis of the best S/N ratio starting from the last frequency explored in the FM band: it is possible that the same station be recorded more than once.

“Frequency”

The “Frequency” can be used to manually select the frequency with the right knob **11**, though it is still possible to seek the station with keys **19** and **20**.

“Settings”

The “Settings” function opens the “Audio settings” page (see paragraph 3.3).

3.1.2 Radio function controls

Switching wave band

The radio system has two wave bands UKW and MW totalling 5 bands in each of which up to 6 stations can be memorised.

The band selection function takes place through keys **3** or **4** with which the following is carried out:

- switching between FM-A, FM-B and FM-AS with the FM key;
- switching between LW and MW with the AM key.

Switching between stations and memorising

The station switching and memorising func-

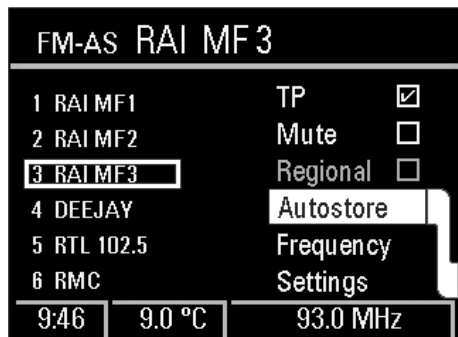
tion is obtained pressing keys **5** to **10** as follows:

- memorised station selection function pressing for less than 2 seconds;
- broadcasting station with RDS memorising function pressing for more than 2 seconds;
- current frequency memorising function pressing for more than 10 seconds; in this case the main function page displays the letter “F” next to the station number and next to the frequency of the broadcaster memorised.

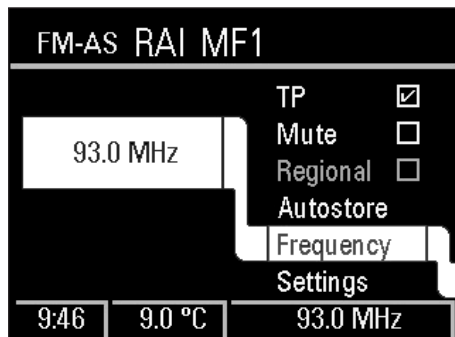
Station seeking

The station seeking function is activated pressing keys **19** or **20** and proceeding as follows:

- pressing for less than 2 seconds starts station seeking with decreasing frequency selection (key **19**) or growing frequencies (key **20**);
- pressing for more than two seconds starts the “scan” function, i.e. every station is tuned to allow listening for only a few seconds. The “scan” function is interrupted pressing keys **19** or **20** again.



3.B.



3.C.

3.1.3 Seeking and memorising stations

Automatic - Autostore

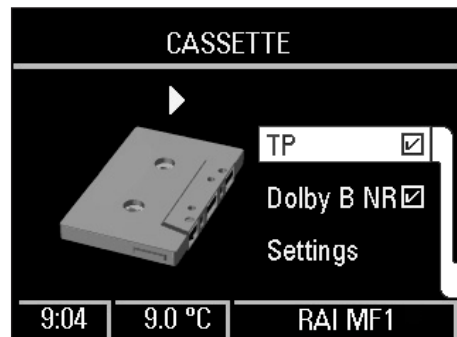
The "Autostore" function makes it possible to automatically programme the keys with the frequencies of the radio stations with the best S/N ratio (dwg. 3.B.).

Manual

With the manual function you can select the required wave band, pressing keys **3** or **4**. The frequency is selected turning knob **11**. After selection the display shows the frequency and, if it is an RDS station, also the station name. Station frequency memorising takes place pressing one of the station keys **5** to

10 for more than 2 seconds and it is also possible to recall memorised stations with these keys (dwg. 3.C.).

During memorising the volume is lowered automatically to allow easier and clearer choice of the station. Confirmation that memorising has taken place is obtained by checking that the memorised station name or frequency is displayed on the radio main function page.



3.D.

3.2 CASSETTE PLAYER FUNCTIONS

3.2.1 CC main function page

The CC main function page is obtained pressing key **23** only if the cassette player is operating (dwg. 3.D). Under the "CASSETTE" window which indicates that selection of the cassette player has taken place, the direction of the tape is displayed (with the arrow), the options "TP" (infotraffic), "Dolby B NR" and "Settings".

The lower display window also displays the time, outside temperature and further current status information.

“TP ☐ ” / “TP ☒ ”

See the explanations of chapter 3.1.1.

“Dolby B NR ☐ ” / “Dolby B NR ☒ ”

The “Dolby B NR” function is selected with knob **11**. Activation of the function makes it possible to reduce the noise caused by running of the tape. When playing tapes recorded with the Dolby B technique, you are advised to activate this function to obtain better sound. When playing tapes that were not recorded with the Dolby technique you are advised to disable the function.

“Settings”

Selecting “Settings” makes it possible to access the “Audio settings” function page (see chapter 3.4).

3.2.2 Cassette player controls

Play back and changing tape direction (autoreverse)

Play back is started after inserting the cassette, with the tape at the right, in the spe-

cial slot and it can be in both directions. The direction is changed pressing key **18** or automatically at the end of the tape (autoreverse). The display shows the tape direction with the arrow.

Fast forward/fast rewind

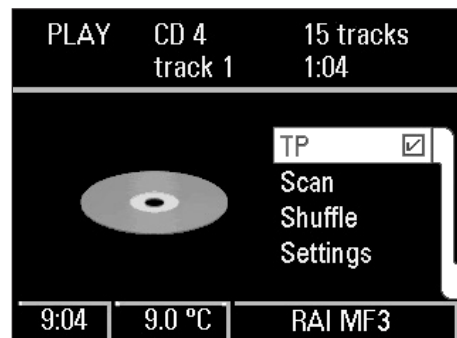
Fast tape running in the two directions is obtained pressing the search keys **19** or **20**. The fast function is interrupted by starting play back if key **19** is pressed again.

Cassette eject

Cassette ejection is obtained pressing key **17**.

Switching the audio source

Switching from CC to CD is obtained pressing key **1**. The switching function from CC to radio is obtained pressing keys **3** or **4**.



3.E.

3.3 HOW THE CD PLAYER WORKS (optional for versions/markets where applicable)

3.3.1 CD player main function page

The CD main function page is obtained, if the CD loader is connected and at least one CD is available, pressing key **1** (dwg. 3.E.).

The CD main function page displays the number of the CD in the loader, the current track number and the duration of the current piece, a CD symbol, the options “TP”, “Scan”, “Shuffle” and “Settings”. The lower window of the page shows the time, outside temperature and further current status information.

"TP □ " / "TP ☑ "

See explanations in paragraph 3.1.1.

"Scan"

The "Scan" function for the CD being played is obtained using knob **11**. With this function all the pieces of the CD are played for about 10 seconds.

"Shuffle"

The "Shuffle" function for the CD being played is obtained using knob **11**.

With this function the pieces of the CD are played in random order.

"Settings"

The "Settings" selection function opens the "Audio settings" function page (see chapter 3.4).

3.3.2 CD player controls

Selecting and playing a CD

Selecting and playing a CD is only possible with the CD loader connected and at least one CD inside. The loader can hold up to 6 CD's and they can be played choosing the corresponding CD with keys **5 - 10**. The number of the CD being played is shown in the upper window of the CD main function page.

Changing title/fast forward and fast backward

The option for the piece before or after the current one is obtained pressing keys **19** or **20** for less than 1 second;

Fast forward or backward from the current track is obtained pressing keys **19** or **20** for more than 1 second.

Switching the audio source

Switching the audio source from CD to CC is obtained pressing key **2**.

Switching the audio source to radio is obtained pressing keys **3** or **4**.

Use of the CD loader

The CD loader is on the left-hand side of the boot.

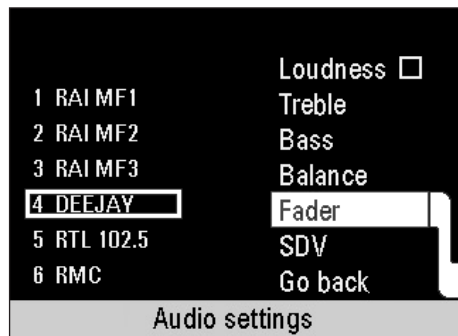
CD loader ready for working

The CD loader is ready for working if it contains at least one CD. Make sure that the CD is correctly inserted and that the loader lid is closed after inserting the CD holder.

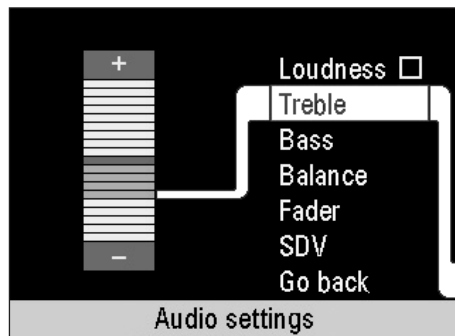
Loading/unloading the CD loader

The CD loader is loaded/unloaded proceeding as follows:

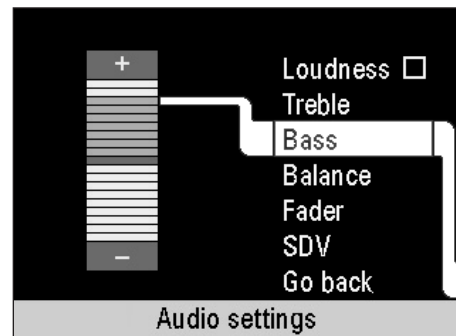
- remove the CD loader sliding the lid to the right;
- press the eject key: the loader will be pushed out;
- remove the CD loader;
- insert the CD's in the correct direction and starting from the first free compartment to enable quick loading between one CD and the next.



3.F.



3.G.



3.H.

3.4 AUDIO SETTINGS

3.4.1 Without DSP (Digital Sound Processing)

The functions concerning audio settings without the DSP amplifier are activated selecting "Settings" on the main audio function page (radio, CC or CD) (dwg. 3.A.). This introduces a new page with the selections "Loudness", "Treble", "Bass", "Balance", "Fader", "SDV" and "Go back". Some symbols are also shown associated with the devices operating (CC, CD or radio).

"Loudness"

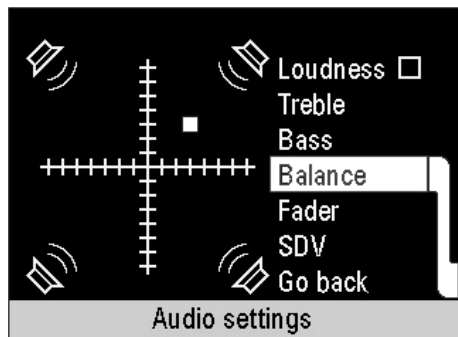
If this function is enabled pressing knob **11** (Loudness ☒) it improves the sound volume increasing the bass tones.

"Treble"

The treble function displays a "sliding regulator" for setting the treble tones. Setting is carried out with knob **11** moving the cursor to the position required and pressing to end the setting (dwg. 3.G.)

"Bass"

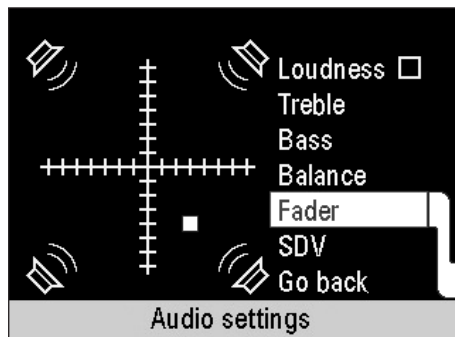
The bass function displays a "sliding regulator" for setting the bass tones. Setting is carried out with knob **11** moving the cursor to the position required and pressing to end the setting (dwg. 3.H.)



3.I.

“Balance”

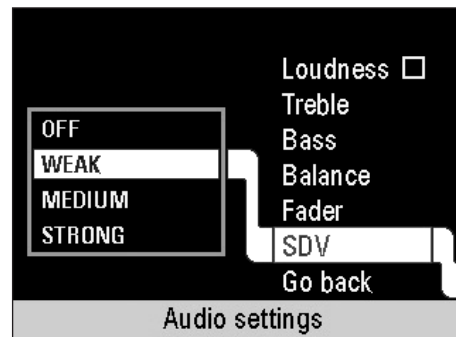
The “Balance” function schematically displays the position of the speakers in the car (front/rear and left/right). The setting operation is carried out with knob **11**, thereby changing the distribution of the volume in the passenger compartment between the right and left speakers. The distribution set is shown by a small square cursor. The setting operation ends pressing knob **11** (dwg. 3.I.).



3.J.

“Fader”

The “Fader” function schematically displays the position of the speakers in the car (front/rear and left/right). The setting operation is carried out with knob **11**, thereby changing the distribution of the volume in the passenger compartment between the front and rear speakers of the passenger compartment. The distribution set is shown by a small square cursor. The setting operation ends pressing knob **11** (dwg. 3.J.).



3.K.

“SDV”

The “SDV” function SDV displays a list for setting volume adjustment in relation to speed. The “SDV” function makes it possible to automatically increase the volume as the speed increases to maintain the ratio with the noise level inside the passenger compartment. It is possible to select 4 levels: “OFF” (deactivated), “WEAK”, “MEDIUM” and “STRONG” (dwg. 3.K.).

“Go back”

The “Go back” function takes you back to the main page of the audio functions (radio, CD or CC) (dwg. 3.A.).

3.4.2 With DSP (Digital Sound Processing) (Optional for markets/versions where applicable)

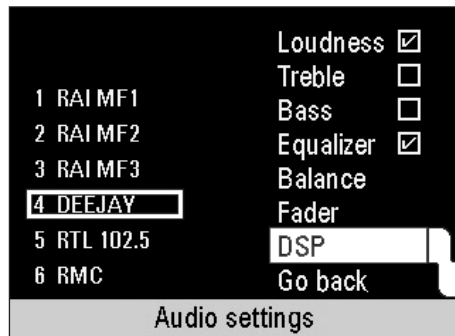
The functions concerning audio settings with the DSP amplifier are activated selecting "Settings" on the main audio function page (radio, CD or CC) (dwg. 3.A.). This introduces a new page with the items "Loudness", "Treble", "Bass", "Equalizer", "Balance", "Fader", "DSP" and "Go back". Some symbols are also shown associated with the devices operating (CC, CD or radio).

"Loudness"

If this function is enabled pressing knob **11** (Loudness ☒), it improves the sound volume increasing the bass tones.

"Treble"

The treble function displays a sliding regulator on the right of the page. The "Treble" (Treble ☒) function is activated through knob **11** and it deactivates the equalizer (Equalizer ☐). The treble setting is carried out turning knob **11** to the required position and ends pressing it (dwg. 3.G.).



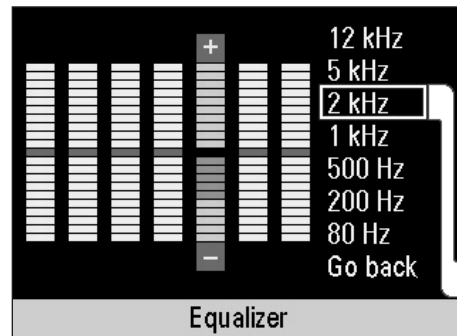
3.L.

"Bass"

The bass function displays a sliding regulator on the right of the page. Activation of the "Bass" selection (Bass ☒) is carried out through knob **11** and deactivates the equalizer (Equalizer ☐). The bass setting operation is carried out turning knob **11** to the required position and ends pressing it (dwg. 3.H.).

"Equalizer"

The equalizer function displays the equalizer function page. Activation of the equalizer function (Equalizer ☒) deactivates the treble and bass settings (Treble ☐ / Bass ☐) and makes it possible to select the single "sliding regulators" of the 7 band graphics pressing knob **11** and to set the different values turn-



3.M.

ing it further (dwg. 3.M.). The setting operation is ended pressing knob **11** again.

"Go back"

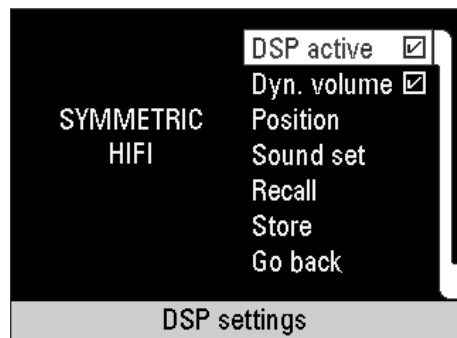
The "Go back" function takes you back to the previous function page (dwg. 3.L.).

"Balance"

The balance function schematically displays the position of the speakers in the car (front/rear and left/right). The setting operation is carried out with knob **11**, thereby changing the distribution of the volume in the passenger compartment between the right and left speakers. The distribution set is shown with a small square cursor. The "Balance" setting operation ends pressing knob **11** (dwg. 3.I.).

“Fader”

The fader function schematically displays the position of the speakers in the car (front/rear and left/right). The setting operation is carried out with knob **11**, thereby changing the distribution of the volume in the passenger compartment between the front and rear speakers of the passenger compartment. The distribution set is shown by a small square cursor. The “Fader” setting operation ends pressing knob **11** (dwg. 3.J.).



3.N.

“DSP”

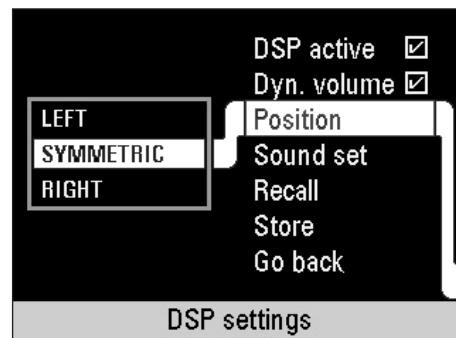
The “DSP” function displays the “DSP settings” function page with the selections “DSP active”, “Dyn. volume”, “Position”, “Sound set”, “Recall”, “Store” and “Go back” (dwg. 3.N.).

“DSP active”

The “DSP” function turns the DSP amplifier functions on/off (☑ / ☐).

“Dyn. volume”

The “Dyn. volume” function turns dynamic volume on/off (☑ / ☐). The dynamic volume function automatically increases the vol-



3.O.

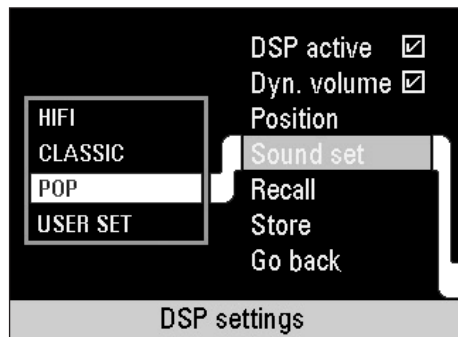
ume of loud and quiet passages differently as the speed increases.

“Position”

The “Position” function displays a list in which it is possible to select your position in the passenger compartment to obtain the best sound. This list offers a choice between the “LEFT”, “SYMMETRIC” or “RIGHT” fields (dwg. 3.O.).

“Sound set”

The “Sound set” function displays a list in which it is possible to select the types of sound in relation to the musical style. This



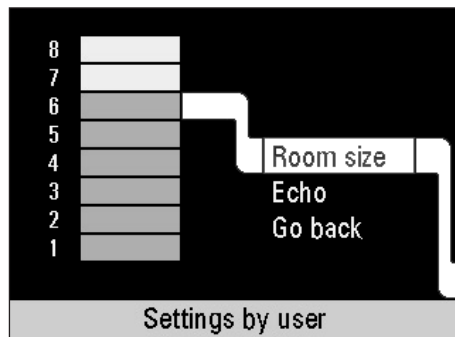
3.P.

list offers the choice between "HI-FI", "CLASSIC", "POP" and "USER SET" (dwg. 3.P.).

The "Sound set" (user parameter) function displays a new page of the function page for setting the individual sound parameter. This function has a "sliding regulator" for changing the "Room size" and "Echo" parameters (dwg. 3.Q.) respectively with 8 different levels. The operation is ended selecting "Go back" thereby accessing the "DSP settings" function page again.

"Recall"

The "Recall" function displays a list with three memories which contain the memorised settings.



3.Q.

"Store"

The "Store" function displays a list with three memory positions. The settings chosen are memorised in the selected memory position.

"Go back"

The "Go back" function displays the page of the audio setting functions (dwg. 3.L.).

"Go back"

The "Go back" function takes you back to the main page of the audio functions (radio, CD or CC) (dwg. 3.A.).

Warning During use of the phone or voice instructions not all the audio functions can be accessed: the message "Wait" will be displayed for about 3 seconds.

4. TELEPHONE (TEL) (Optional for markets/ versions where applicable)

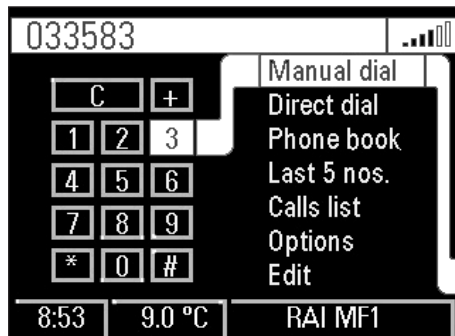
General information

The I.C.S. system is fitted with a GSM cellular phone (TEL) with handsfree feature and (optional for versions/markets where applicable) with an additional receiver. The GSM standard (Global System for Mobile Communication) is currently implemented in 87 countries and has excellent coverage; for information about the areas served by the GSM networks at present and in the future please contact your network provider. Access to the many telephone function pages is gained pressing key **24** (dwg. 4.A.).

Display contents and functions

The telephone has many functions which simplify use:

- PIN entry function (Personal Identification Number);
- activating and deactivating access to the SIM telephone card (Subscriber Identification Module);
- emergency call function;
- second call control function;



4.A.

- access to and changing the lists with the more frequently dialled numbers and to the phone book;
- access to the list of the last 5 numbers dialled;
- access function to the last calls received (up to a maximum of 7) that were not answered;
- manual dialling function;
- SMS (Short Message Service) function which makes access possible in reception and send brief text messages;
- copy and merge telephone card phone books;
- DTMF (Dual Tone Multi Frequency) settings to enable dialling repetition and inhibit transmission of your self-identification;

- network provider selection function;
- PIN change function;
- PIN query on/off function;
- Call signal volume and sound;
- display of signal field intensity and other status messages with the following symbols:

field intensity

the telephone is off or there is no carrier or the phone is not inserted in the network

ring tone off

"transfer" function on

"preclusion" function on

SMS Message received and read

SMS message received and not read yet

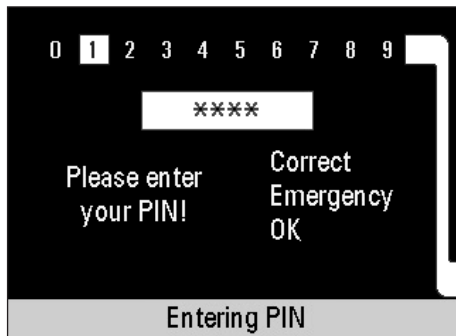
SMS message written and already sent

SMS message written, but not sent yet.

4.1 PRELIMINARY OPERATIONS

4.1.1 Inserting the telephone card

Inserting a valid SIM telephone card makes the telephone operational and the functions



4.B.

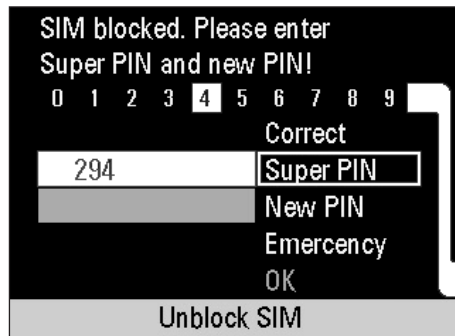
can be accessed. The telephone card must be inserted in its slot next to knob **11** so that the integrated chip is at the front left in relation to the direction of travel. Correct insertion of the card is confirmed by the prompt asking to type the card PIN code (dwg. 4.B.).

When the card is already inserted, access to the operating system is obtained pressing key **24**.

4.1.2 PIN entry

The PIN code is entered using knob **11**. Turn the button to select the digits required and press to confirm.

The digits are displayed as asterisks.



4.C.

Selecting "Correct"

The option "Correct" makes it possible to correct the digits entered. The function is activated turning knob **11** to the right to take the cursor to "Correct" and pressing as follows:

- deleting the last digit entered pressing for less than 1 second;
- deleting the whole entry field pressing for more than 1 second.

The operation can then continue entering the correct digits.

Warning The next entry with confirmation of 3 wrong PIN codes will block the card. The

card is unlocked entering the PUK code (Pin Unlocking Key) and the new PIN code (minimum 4 characters, maximum 8 characters). (dwg. 4.C.).

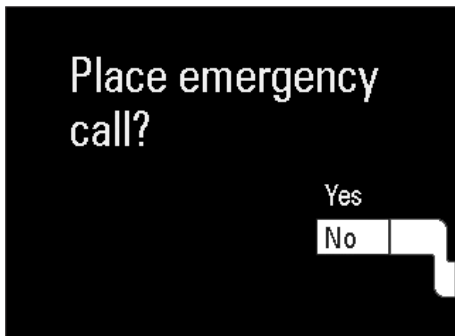
Selecting "OK"

The option "OK" is obtained turning knob **11** to the right to move the cursor to "OK" and pressing to confirm entry of the PIN code or PUK code. Network signal seeking starts after entering the PIN code and the telephone main function page is shown on the display (dwg. 4.A.). After connection the MAIN screen shows the name of the network provider.

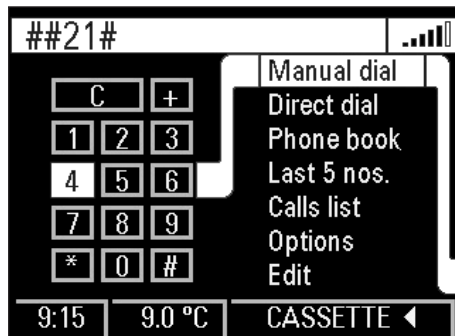
4.2 EMERGENCY CALL FUNCTION

Access to the emergency call function can be gained in different ways:

- with the card inserted on the PIN entry function page or on the function pages described later;
- without the card inserted simply confirming "Emergency call". The function page is then displayed (dwg. 4.D) and, confirming with "Yes" the network provider emergency



4.D.



4.E.

call number is dialled automatically. The emergency call page is exited pressing knob **11** when the cursor is on “No” which automatically takes you back to the last function page;

— manually dialling an emergency number, even if the telephone card is not inserted or if preclusions exist.

4.3 MAIN FUNCTION “MANUAL DIALLING”

4.3.1 Entering a telephone number

The option “Manual dialling” on the tele-

phone main function page makes it possible to manually dial a telephone number. The function is accessed pressing knob **11** on “Manual dial” and turning it left to reach the digit field. Dialling the digits of the required telephone number takes place pressing knob **11** to confirm the different digits. During dialling the current digits are enlarged, while the complete number is displayed in the upper window (dwg. 4.E.).

Possibility of correction

The correction function is activated selecting “C” as follows:

— deleting the last digit entered pressing knob **11** for less than 1 second;

— deleting the whole contents of the entry field pressing knob **11** for more than 1 second.

4.3.2 Calling the number

Calling the number selected function is obtained pressing key **16**. After this, the audio is deactivated, connection is made and, if the subscriber called answers, the call time counter is activated.

4.3.3 Ending the conversation and accepting calls

The conversation ending and call acceptance function is obtained pressing the key **16**.

4.3.4 Handsfree feature, volume adjustment and additional receiver functions

A handsfree microphone allows you to talk on the phone without using the additional receiver. The volume is adjusted by knob **21**.

Additional receiver (optional)

The I.C.S. telephone can be integrated with an additional receiver. The volume is adjusted with the ring on the additional receiver.

Additional receiver functions

The additional receiver possesses functions which make it easy and convenient to use, in particular:

- picking it up when it rings accepts the call;
- taking it off its housing during a hands-free conversation moves the call to the additional receiver;
- taking it off its housing and then pressing the receiver key for the first time connects with the additional receiver;
- putting it back during a conversation ends the conversation.

Warning During a conversation it is not possible to pass from the receiver to hands-free talking.

4.3.5 Other manual dialling functions

The manual dialling function makes it possible to access network preclusion services

through combinations of digits, * and #, according to procedures depending on the network provider. These functions take place pressing key **16** which is followed by confirmation on the display. In some cases this confirmation may be displayed in English, regardless of the language selection.

Examples of service preclusion

— preclusion function for outgoing international calls setting the code (password) supplied by the network operator

**331(password)#(receiver key)

— information functions on current status of outgoing international calls preclusion service

+ #331#(receiver key)

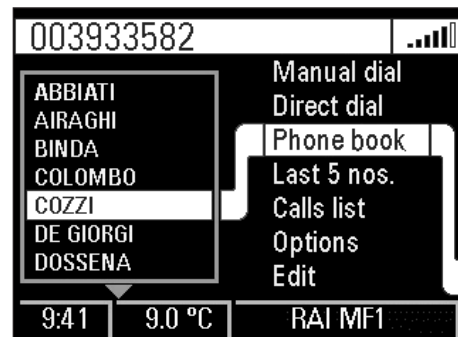
function for cancelling outgoing international calls preclusion service

#331*(password)#(receiver key).

4.4 MAIN "PHONE BOOK" FUNCTION

4.4.1 Dialling a subscriber listed in the I.C.S. phone book

Direct dialling of subscribers memorised on



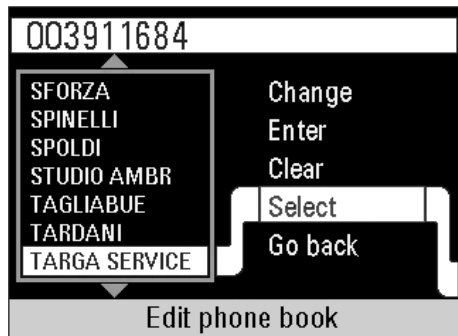
4.F.

the SIM card takes place through the "Phone book" function on the main telephone function page. The subscriber list is accessed selecting "Phone book" and moving the cursor to the item required turning knob **11**. The arrows at the top and bottom of the list indicate that there are other items that can be selected. The telephone number of the current selection is shown on the upper window of the display (dwg. 4.F.).

Calling the subscriber selected takes place pressing key **16**.

4.4.2 Entering a new item

A new entry in the "Phone book" is obtained selecting the option "Edit" with knob **11** and



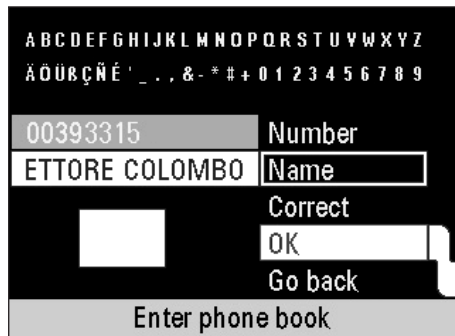
4.G.

accessing the options “Change”, “Enter”, “Clear”, “Select” and “Go back” (dwg. 4.G.).

The function page for entering new phone book items is obtained selecting “Enter”. The selection displays a new window with the fields for entering the subscriber’s telephone number and name; the characters available, a zoom field for enlarging the character selected and the options “Correct”, “OK” and “Go back” (dwg. 4.H.).

Entering telephone numbers

Telephone numbers are entered selecting “Number”, moving the cursor on the characters with knob **11** and pressing to confirm. Select the respective digits which appear in the “Number” entry field and, one by one to check in the zoom field.



4.H.

Caution The telephone number must always be entered with the area code and also the international code for foreign calls.

Entering the name

The name is entered in the same way as telephone numbers, i.e. with knob **11** select “Name” and continue turning to move the cursor on the characters (press knob **11** to confirm the characters).

The white space between the characters is obtained selecting “_”.

Correction function

The correction function is obtained selecting “Correct” as follows:

– deleting the last character entered pressing knob **11** for less than 1 second;

– deleting all the contents of the entry field pressing knob **11** for more than 1 second.

Selecting “OK”

Memorising the data entered and inserting them in the list takes place selecting “OK”.

Selecting “Go back”

The option “Go back” displays the previous page of the “Edit phone book” function page.

4.4.3 Deleting an item

Deleting an item from the phone book takes place selecting “Select” in the “Edit phone book” function page and highlighting the item to be deleted. Then select “Clear”. Accidental deleting is avoided by the prompt to confirm whether you really intend to delete (dwg. 4.I.). After deletion the “Edit phone book” function page is displayed again.

Warning If the entry fields of new names in the phone book are all occupied, the I.C.S.S. system suggests deleting an existing name to



4.I.

make room for a new one. The maximum number of entries depends on the card services.

4.4.4 Changing an item

Changing an item in the phone book is obtained selecting "Select" in the "Edit phone book" function page and highlighting and confirming the item to be changed. Selecting "Change" accesses the function page for entering new items with the "Number" and "Name" fields or for modifying existing ones. Selected the item to be changed ("Number" or "Name"), move the cursor to "Correct" then press knob **11** as follows:

— to delete the last digit or letter of the field pressing for less than 1 second;

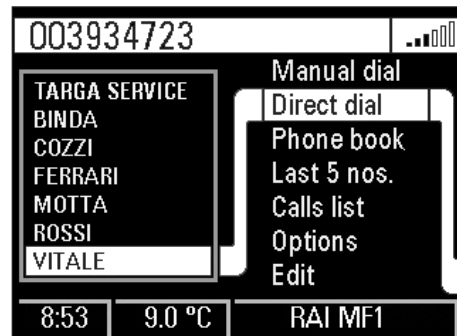


4.J.

— to delete the whole contents of the field pressing for more than 1 second. The modified item is memorised selecting "OK" (dwg. 4.J.).

4.5 "DIRECT DIAL" MAIN FUNCTION

With the "Direct dial" function it is possible to quickly generate and access a list with the 7 telephone numbers used more frequently. The I.C.S. system is capable of managing and automatically recognising the lists of "Direct dial" of a maximum of 5 different SIM cards, the items of which are obtained from the I.C.S. phone book or from the telephone card read.



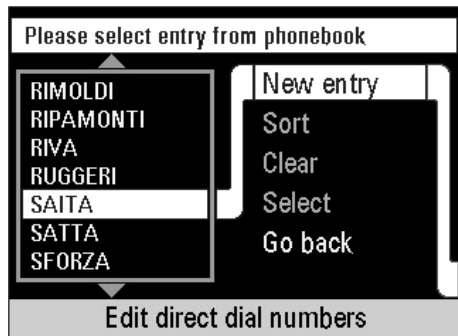
4.K.

4.5.1 Dialling a subscriber listed in the "Direct dial"

Dialling a subscriber identified as a "Direct dial" takes place selecting "Direct dial" on the main telephone function page. "Direct dial" are selected with knob **11** turning until the cursor is on the name required. The telephone number selected is shown in the upper window of the display (dwg. 4.K.). The subscriber selected is called pressing key **16**.

4.5.2 Compiling the list of "Direct dial"

Compiling the list of "Direct dial" takes place selecting "Direct dial" with knob **11**



4.L.

on the telephone main function page and pressing to confirm. Then selecting “Edit” displays the “Edit direct dial numbers” function page. Making or changing the list of the 7 more frequently used numbers is obtained selecting “New entry” and, from all the items of the phone book, with “Select” it is possible to copy up to 7 items in the “Direct dial” list (dwg. 4.L.).

4.5.3 Changing “Direct dial”

Selecting “Sort”

Selecting “Sort” you can change the order of the numbers in the “Direct dial” list as you prefer. For example moving a number from position 7 to position 1, takes place high-

lighting number 7 using “Select”, then “Sort” and with knob **11** moving the number 7 selected to position 1. The operation is memorised pressing knob **11**.

Selecting “Clear”

Selecting “Clear” makes it possible to delete an item selected from the list of frequent numbers. This function is necessary when the list of “Direct dial” is filled with 7 numbers and you want to enter a new frequent number from the phone book.

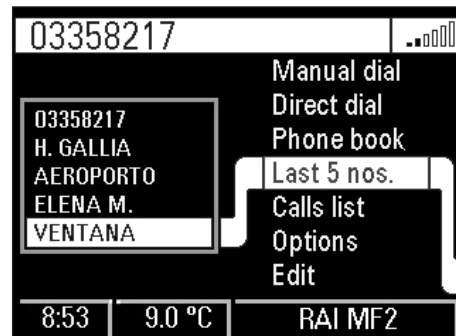
Selecting “Go back”

Selecting “Go back” brings you back to the main telephone function page.

4.6 “LAST 5 NUMBERS” MAIN FUNCTION

4.6.1 Selecting an item from the “Last 5 no.” list

The option “Last 5 nos.” displays the last 5 numbers dialled, relating to the SIM card inserted. The numbers of this list can be selected and highlighted with knob **11** and called automatically pressing key **16**.



4.M.

Modify “Last 5 numbers” (deleting function)

The selection list “Last 5 nos.” is generated and updated automatically, but you also have the possibility to delete items. Deleting numbers from the “Last 5 nos.” list is obtained exiting the corresponding list after confirming it and selecting “Edit” (dwg. 4.M.): the new function page “modify last 5 numbers” is displayed with the selections “Clear”, “Select” and “Go back”. A number is deleted highlighting it with “Select”, then choosing “Clear” and confirming the choice. After deleting it is possible to return to the telephone main function page automatically or selecting “Go back”.

4.7 "CALLS LIST" MAIN FUNCTION

The "Calls list" function allows access to the list of the last calls received (up to a maximum of 7) that were not answered. This function is accessed choosing and confirming "Calls list" using knob **11** on the phone main functions page. Each item of the list gives the name of the person that made the call (if stored in the phone list) or the phone number (if the call was not in incognito).

The calls are listed in the order received, with the last call at the top of the list. If the same call is received more than once, it will be given in the list only once, in the order of the last call received. The names or numbers of the list can be called directly, pressing the key **16** after choosing them with knob **11**.

4.8 TELEPHONE OPTIONS

The option "Options" on the main telephone function page makes it possible to access the "Phone options" function page selecting "Info", "SMS", "Copy SIM", "Merge SIMs", "Call divert", "Settings" and "Go back" (dwg. 4.N.).



4.N.

4.8.1 Telephone options - selecting "Info"

The option "Info" makes it possible to display the network access identity telephone number, the I.C.S. telephone electronic serial number (IMEI = International Mobile Equipment Identity) and the network access provider name. The central part of the display shows the number of the "Service Center", "Validity" and the "Code" for the SMS message function. It is also possible to display the disabling through the corresponding selection (dwg. 4.O.). Activation of these functions is displayed on the MAIN screen and on the main telephone function pages with the symbols \rightarrow and/or \downarrow .

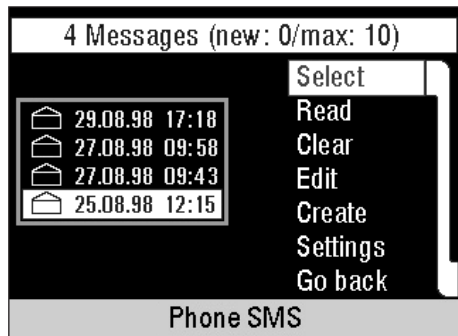


4.O.

4.8.2 Telephone options - selecting "SMS"

The option "SMS" makes it possible to access the SMS messages page, which can be received and sent. The upper window of the SMS messages page shows the number of SMS messages in the memory and how many of them have not been read. The list of SMS messages received also shows the date and time of reception and the read/unread, written/written and transmitted status (dwg. 4.P.).

Warning For some providers access to the "SMS" function may have to be enabled.



4.P.

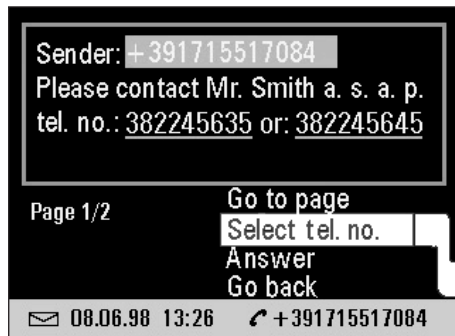
Reading messages

Reading an SMS message takes place choosing "Select", highlighting the message required, followed by "Read". In selecting reading, the message is displayed with its receipt stamp and with the telephone number of the sender. If the message exceeds the space available on the single page (4 lines with 23 characters) it is continued on other pages which are made available by choosing "Go to page".

The option "Go back" takes you back to the previous SMS function page (dwg. 4.Q.).

Dialling a telephone number in the SMS message

The option of the telephone number in the



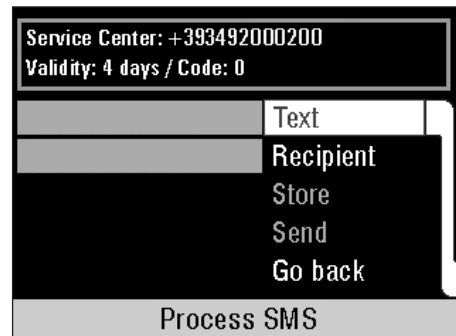
4.Q.

SMS message allows you to dial the telephone number highlighted pressing key **16**. If the message contains at least one other phone number you will see "Select Phone No." with which it is possible to choose the telephone number required (dwg. 4.Q.).

Warnings

— When dialling an SMS message (dwg. 4.P.) it is possible to dial directly from the SMS message pressing key **16**.

— When SMS message is received inside any function page it can be read at once pressing key **16** within approx. 10 seconds from receipt.



4.R.

Creating messages

An SMS message is created selecting "Create" in the "Phone SMS" page (dwg. 4.P.) thereby displaying the "Process SMS" page with the "Text", "Recipient", "Store", "Send" and "Go back" pages (dwg. 4.R.).

Writing the text

The "text" option displays the "Enter SMS text" page for creating the text of the message (dwg. 4.S.). The text is composed selecting the characters with knob **11** and pressing to confirm them. The blank space between two characters is obtained selecting " ". Selecting "A→a" or "a→A" moves respectively from UPPER CASE characters to lower case and vice versa. Selecting "<->" it is possible to move the cursor within the al-



4.S.

ready written text for any corrections. The correction function is activated selecting "C" as follows:

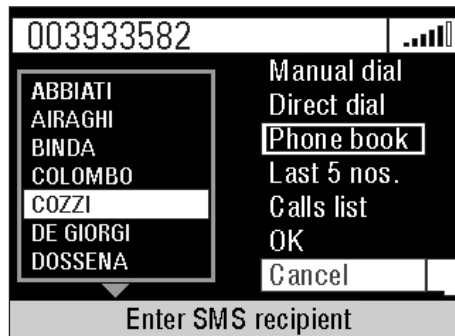
- pressing knob **11** for less than 1 second deletes the last character entered;

- pressing knob **11** for more than 1 second progressively deletes all the characters; deleting is stopped by releasing the knob.

When the message has been written, selecting "OK" takes you back to the "Process SMS" page.

Choosing the addressee

The "Recipient" option displays the "Enter SMS recipient" page with the options "Manual dial", "Direct dial", "Phone book", "Last 5 nos.", "Call list", "OK" and "Cancel"



4.T.

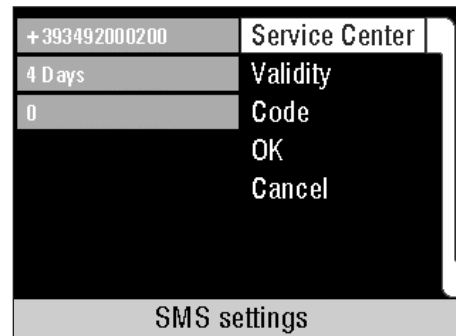
(dwg. 4.T.). The addressee can be selected among those memorised or manually, proceeding as described in paragraphs 4.3, 4.4, 4.5 and 4.6. After selecting, turn knob **11** to the right and select "OK".

Memorising the message

If you want to memorise the message, select "Store". Confirmation is given by the wording "Message saved" which appears on the new page which is exited selecting "Continue".

Sending the message

To send the message, select "Send". The message that appears on the new page confirms that the message has been sent with the wording "SMS sent successfully" or if not, it indi-



4.U.

cates that the message has not been sent by "Not executed!". To continue, press "Continue".

Go back

Select "Go back" to display the "Phone SMS" function page again.

Setting messages

Selecting the "Settings" option from the main SMS page (dwg. 4.P.) access is gained to the "SMS settings" page (dwg. 4.U.) with the options "Service Center", "Validity", "Code", "OK" and "Cancel". The option "Service Center" allows access to the main page of the telephone function (dwg. 4.A.) for selecting the service center among those memorised or for manual dialling, proceeding as described for dialling phone numbers. "Va-

lidity" allows you to choose the days of validity of the message (from 1 to 441 days). With "Code" it is possible to give the messages a code (codes from 0 to 255). After completing the settings, select "OK" to activate the settings chosen or "Cancel" to cancel them. Both cases take you back to the main "Phone SMS" page (dwg. 4.P.).

Changing messages

An SMS message is obtained selecting "Edit" on the SMS functions page and then choosing the field to be modified, proceeding as described for creating messages.

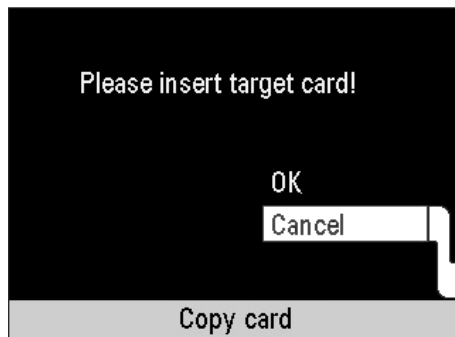
Deleting SMS messages

An SMS message is deleted highlighting "Select", "Clear" on the SMS function page, and confirming deletion. Message deletion is necessary if the SMS memory on the SIM card is full. This will be displayed on the SMS function page with an upper window with the wording "memory full, cancel item".

Warning The number of possible SMS messages depends on your service provider.

"Go back"

Select "Go back" to return to the "Phone options" page (dwg 4.N.).

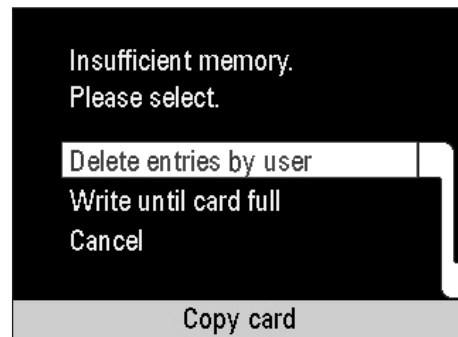


4.V.

4.8.3 Telephone options - selecting "Copy SIM"

The option "Copy SIM" makes it possible to copy to copy numbers of the phone book of a SIM card on another SIM card (destination card). For this operation the following steps are required:

- with knob **11** select "Copy SIM". A new function page is displayed asking you to insert the destination card in the I.C.S. (dwg. 4.V.);
- remove the origin SIM card from its housing pressing the eject key **14**;
- insert the destination SIM card;
- select "OK" if necessary entering the PIN code of the destination SIM card. A PIN code entry can be corrected with "Correct". After entering the correct PIN a warning is displayed "Cau-



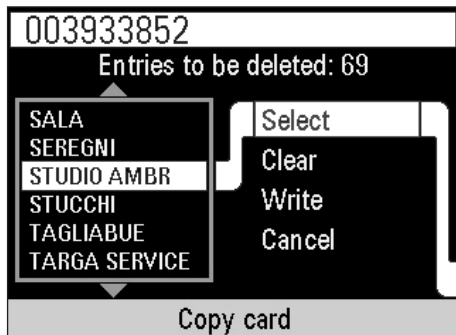
4.W.

tion: phone book being written!" on a function page contains "Overwrite" and "Go back".

— if the wrong destination card has been inserted by mistake select "Go back". Selecting "Overwrite" starts the actual copying operation shown on the display.

— the system asks if there are other SIM cards on which you want to copy the same numbers. Selecting "No" takes you back to the "Phone options" function page.

If the space on the destination SIM card is insufficient for all the new data of the origin SIM card, at the end of the copying operation the destination SIM card will show the new data, otherwise a new function page is displayed with the possibility to select "Delete entries by user", "Write until card full" and "Cancel" (dwg. 4.W.).



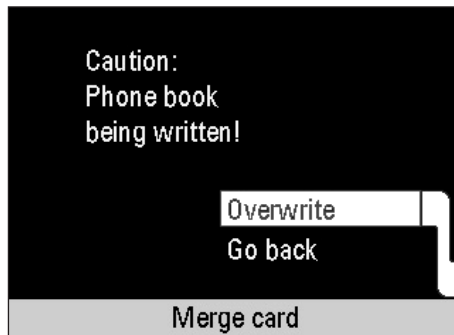
4.X.

“Delete entries by user”

The option “Delete entries by user” makes it possible to access a page with the items of the phone book to be copied from which the phone book to be copied can be changed as preferred. During this operation the number of items still to be deleted is shown. Highlighting these items first with “Select” and then with “Clear” starts the phone book modify operation which can be followed by the copying operation selecting “Write” (dwg. 4.X.).

“Write until card full”

The option “Write until card full” automatically copies the highest number possible of numbers on the card.



4.Y.

“Cancel”

The option “Cancel” returns to the “Phone options” function page.

4.8.4 Telephone options - selecting “Merge SIMs”

With the “Merge SIMs” function it is possible to merge the numbers of the phone book of the first origin SIM card with the numbers of the phone book of the second origin SIM card on a third destination SIM card, selecting “Merge SIMs” on the “Phone options” function page (dwg. 4.N.) with knob **11**. You will be asked to insert the second origin card, after removing the first one with the eject key **14**, which is then confirmed selecting “OK”.

After entering the second origin card it may be



4.Z.

necessary to enter its PIN code, remembering that it is possible to correct code entries with “Correct”. Then you will be asked to insert the destination SIM card with the same procedure. Writing on the destination SIM card takes place selecting “Overwrite” on the new page which is automatically displayed (dwg. 4.Y.). The same page also has the “Go back” function which takes you back to the previous page.

Warning The management and display procedures for merging numbers from different cards are as described previously for the “Copy card” operations (4.7.3).

4.8.5 Telephone options - selecting “Call divert”

The “Call divert” option allows access to the



4.Z.1.

"Query", "Conditions", "Mode", "Number", "Time lapse", "OK" and "Go back" functions page (dwg. 4.Z.).

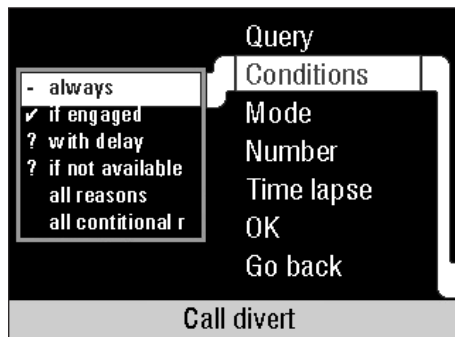
"Query" option

The "Query" option accesses the pages that give all the conditions active at the moment (dwg. 4.Z.1.) Select "Continue" to access the following pages.

You go back to the main "Call divert" page from the last page of the active conditions or pressing "Cancel" from any page.

"Conditions" option

The "Conditions" option allows access to the page of the conditions for transferring calls (dwg. 4.Z.2.). Confirm the condition to be activated or deactivated and then select the



4.Z.2.

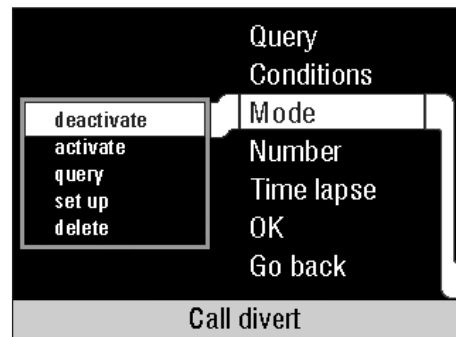
"Mode" function to access the new page with the options "deactivate", "activate", "query", "set up" and "delete" (dwg. 4.Z.3.).

"Number" option

The "Number" function makes it possible to select the phone number to which arriving calls are to be diverted, depending on the active functions.

"Time lapse" option

With the "Time lapse" function it is possible to select the time delay (from 5 to 30 seconds) that elapses between the arrival and transfer of the call. At all events, the call transfer interval depends on the network access provider, that can activate a different interval than the one set on the I.C.S. system.



4.Z.3.

"OK" option

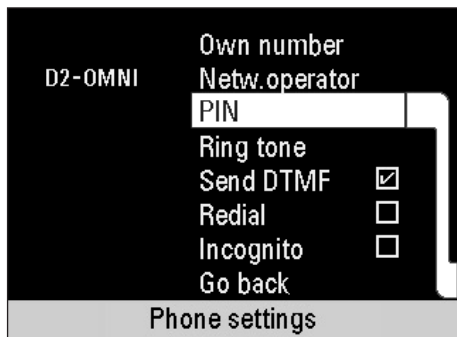
The data entered are memorised selecting "OK".

"Go back" option

"Go back" takes you back to the previous page of the "Phone options".

4.8.6 Telephone options - selecting "Settings"

The option "Settings" makes it possible to access the function page "Own number", "Network operator", "PIN", "Ring tone", "Send DTMF ☐", "Redial ☐", "Incognito ☐ " and "Go back" (dwg. 4.Z.4.). The existence of a service activated for access to the



4.Z.4.

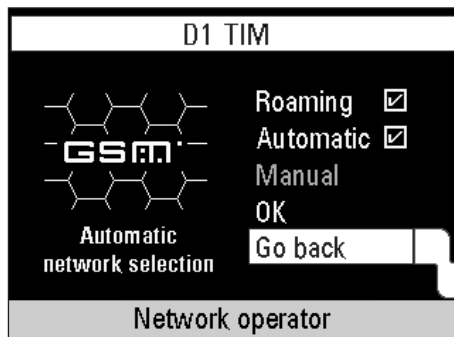
GSM network makes it possible to display the provider's name at the left of the option "Network operator".

Selecting "Own number"

The "Own number" function allows you to access the page in which you can enter and memorise your own telephone number. Selecting "Cancel" returns to the "Phone options" function page without memorising. Selecting "Store" after entering a number, returns to the "Phone settings" function page.

Selecting "Network operator"

The option "Network operator" allows access to the corresponding page which, after



4.Z.5.

the "Wait: network exploration in progress", and makes the "Roaming ☐", "Automatic ☐", "Manual", "OK" and "Go back" functions available with which it is possible to manually select a network operator or set it automatically. Activation (shown with the symbol ☒) or deactivation (shown by the symbol ☐) of the "Roaming" and "Automatic" functions takes place pressing knob **11** (dwg. 4.Z.5.).

"Roaming ☒"

Activating the "Roaming" function it is possible to move automatically to another authorised network if the previous one is no longer receivable.

"Roaming ☐"

Deactivation of the "Roaming" function accesses only the network selected manually.

"Automatic ☒"

Activating the automatic function it is possible to enter an authorised network on the basis of the SIM card list of priorities.

"Automatic ☐"

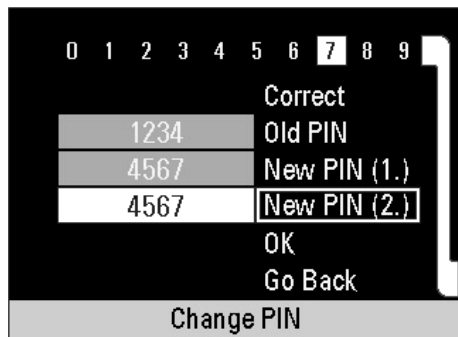
Deactivation of the automatic function allows access only to the network selected manually.

"Manual"

The option "Manual" enables access to a list with all the receivable networks. It is possible to select the network required among those allowed in the list (not displayed in grey) with knob **11**. The setting of the network selected is made effective selecting "OK", and returning to the "Phone settings" function page selecting "Go back".

Selecting "PIN"

The option "PIN" allows access to the "PIN settings" function page through "Change PIN", "PIN query", "Use last PIN ☐ and "Go back".



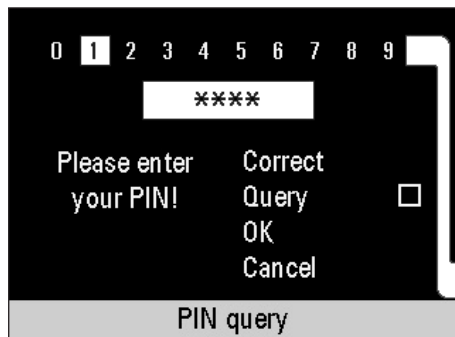
4.Z.6.

“Change PIN”

The option “Change PIN” makes it possible to change the PIN of the SIM card, accessing the “Change PIN” function page (dwg. 4.Z.6.). In the page displayed it is necessary to firstly enter the previous PIN code and then enter the new PIN code twice, correcting any mistaken entries with “Correct”. Entry confirmation ends the PIN change and introduces the “Phone settings” function page; otherwise, selecting “Go back” the “Phone settings” function page is displayed without memorising the change.

“PIN query”

The option “PIN query” makes it possible to activate or deactivate PIN code query through the corresponding function page. Disabling this function (Query ☐) allows use of the telephone



4.Z.7.

without asking for PIN code entry when the SIM card is inserted. Access to and changing this setting requires PIN code entry (dwg. 4.Z.7.).

“Use last PIN”

The option “Use last PIN”, if enabled (“Use last PIN ☒”), allows the PIN code memorised last to be entered automatically when the SIM card is inserted. This function is available only for a SIM card for which no entry errors have been made.

Warning The option “Change PIN” cannot be selected if the “PIN query ☐” is deactivated.

Selecting “Ring tone”

The “Ring tone” option displays a function

page with the selection options “Melody”, “Volume” and “Go back”.

“Melody”

The “Melody” option displays a list with different melodies/tones that can be selected with knob **11**.

“Volume”

The “Volume” option displays a bar graph to set the ringing volume with knob **11**.

“Go back”

Selecting “Go back” takes you back to the “Phone settings” function page.

Selecting “Send DTMF ☐ / ☒”

With the option “Send DTMF” enabled it is possible to transmit DTMF (Dual Tone Multi Frequency) numbers during a telephone connection. The use of these control codes makes it possible to access particular network services or communication equipment (e.g., a remote telephone answering device).

Selecting “Redial ☐ / ☒”

The “Redial” option makes it possible to au-

tomatically repeat dialling a busy number for up to 10 times. Automatic repeat dialling is interrupted pressing the receiver key **16**.

Selecting "Incognito" ☐ / ☒

The option "Incognito" makes it possible not to show your number on the called subscriber's set. The availability of this function depends on the network provider.

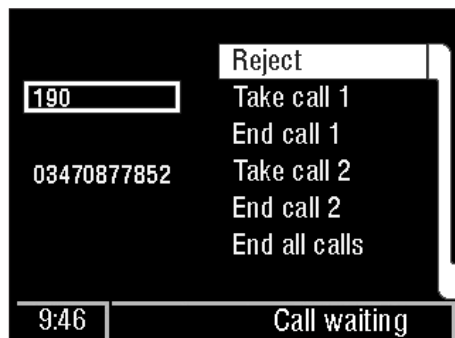
Selecting "Go back"

The "Go back" option displays the previous "Phone options" page.

4.9 "CALL WAITING" FUNCTION

If during a phone call, another call is received, the telephone of the I.C.S. system indicates it showing a new page on the display with the functions "Reject", "Take call 1", "End call 1", "Take call 2", "End call 2", and "End all calls" (dwg. 4.Z.8.).

This page is shown on the display regardless of the function activated during the call. The top left window of the display shows the telephone number of the first caller, while the lower part shows that of the second caller.



4.Z.8.

The appearance of the callers' telephone numbers depends on the network access provider, as well as on the possibility of not making one's own number available.

To select and confirm the different functions of the "Call waiting" page, turn and press knob **11**.

4.9.1 "Reject" option

Choosing and confirming this function rejects the second incoming call, continuing the first one.

4.9.2 "Take call 1" option

Choosing and confirming this function the first call is resumed after leaving it in stand-by to answer the second one.

4.9.3 "End call 1" option

Choosing and confirming this function definitively interrupts the first call to answer the second.

4.9.4 "Take call 2" option

Choosing and confirming this function takes the second incoming call, leaving the first in stand-by.

4.9.5 "End call 2" option

Choosing and confirming this function definitively ends the second call to return to the first that was waiting in the meantime.

4.9.6 "End all calls" option

Choosing and confirming this function ends both calls definitively.

5. NAVIGATION (NAV) (Optional for markets/ versions where applicable)

General information

The integrated navigation system (NAV) allows you to reach the selected destination through visual and acoustic instructions. Use of the navigation system is fast, convenient, safe, and above all highly flexible because you can call up already programmed destinations or reference points such as hotels, monuments, public structures, fuel stations or Authorised Alfa Romeo Services.

The instantaneous vehicle position is determined by the GPS system (Global Positioning System) installed on board. The on-board GPS system is fitted with an aerial and a reception module integrated in the I.C.S. system. The system dynamically processes satellite signals, those of a sensor on a wheel and of the gyroscope integrated in the navigation computer.

The Alfa Romeo navigation system helps driver while he drives, by suggesting vocally or graphically, the optimum routing to reach his preset destination.

WARNING: Navigation system suggestions do not excuse driver from his full responsibilities due to his driving behaviour and to his compliance with road and other traffic regulations.

The responsibility for road safety always lies with vehicle driver, and it falls on him in any case.

Warnings

— GPS reception is difficult under trees, among high buildings, in multi-storey car parks, in tunnels and anywhere satellite aerial reception can be hindered.

— The GPS system needs about 15 minutes for activation if it is connected to the vehicle battery.

— The GPS system needs a few minutes to determine the new position of the vehicle if it is turned off and the vehicle is moved with the system off.

— In the lack of satellite information, the system uses the information leading from the gyroscope and from the sensor at the wheel for temporary data analysis.

— The GPS satellite aerial must not be covered with metal or damp objects.

The instantaneous vehicle position is identified in the CD-ROM and shown on the display together with the topographic characteristics of the area memorised on the CD. Access to the data on the CD-ROM requires waiting a few moments in the map displays.

The system constantly compares the data leading from the wheel sensor, the GPS aerial and from the programme to automatically compensate changes in temperature, pressure or any other occurrence which can falsify position detection in any way.

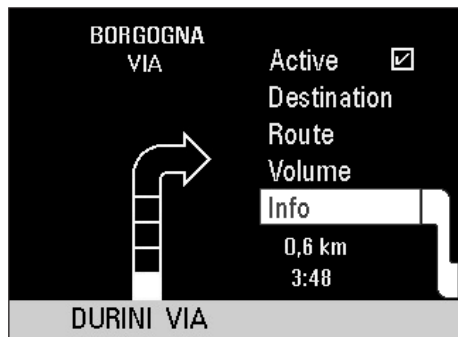
Warnings

— Precise self-adjustment of the navigation system requires approx. 50 km of travel the first time and when tyres are changed.

— Continuous lack of grip at the wheels (for example skidding on ice), the system temporarily detects an incorrect position.

— During precision self-adjustment the position is not detected absolutely completely.

The navigation system is managed completely through the I.C.S., therefore the only operations that may be necessary are replacement of the CD-ROM to set the map of another area or an updated map.

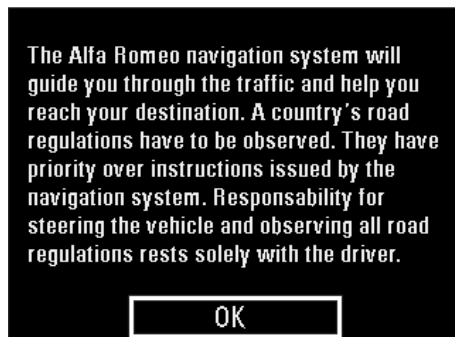


5.A.

Access to the navigation main function page (dwg. 5.A.) is gained pressing button **25** (NAV) after turning on. Each time the I.C.S. is turned on a page will be shown with warnings about care in use of the system (dwg. 5.B) which, to be able to continue using the system must be confirmed pressing knob **11** or one of the main function keys. This page will no longer be displayed as long as the system is on.

Display and functions

- Voice and visual instructions with indications of the distance from the destination.
- Detailed map in different colours and with different scales to clearly show the vehicle position, the route and the destination.



5.B.

- Personalisation of the navigation system with the possibility of entering pre-memorised destinations with road and number.
- Automatic memorising of the last 5 destinations.
- Name of the current road.
- Possibility to choose the route according to personal preference.
- Information about current position.
- Information about arrival times.
- System diagnostics and warnings about possible disturbances.

Drive for navigation CD

The navigation CD-ROM is located on the

left side of the boot and it has an eject key and two warning lights:

- the upper light on means that the power current is on;
- the lower light on means that the CD-ROM is on;
- the lower light flashing means that the CD-ROM is being changed.

Warning

- The navigation system only works with the CD-ROM inserted in its drive.
- The CD-ROM must be removed and changed only for updating the system software, for updating the map or entering maps relating to another region.

Changing the CD

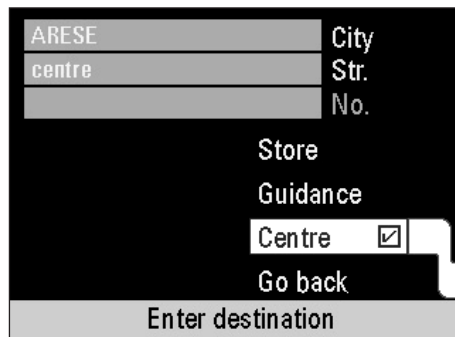
- When the I.C.S. is turned on the drive upper and lower warning lights are lit.
- Press the eject key.
- The previous CD-ROM is ejected and the lower drive led flashes.
- Insert the new CD-ROM.

Warnings

- When the new CD-ROM is inserted the



5.C.



5.D.



5.E.

system software is automatically updated to the new map material or to the new functions. During the time required for this operation a stand-by message is displayed. After the updating operation the destination memory is empty.

— The driver is responsible for abiding by current traffic regulations, any instructions on the basis of incorrect maps which induce prohibited driving manoeuvres must NOT be followed.

Software version

The I.C.S. software release number can be checked selecting the climate control display page, then pressing knob **11** for at least 3 seconds.

5.1 DESTINATION ENTRY

Entering the destination is obtained selecting "Destination" with knob **11** and pressing to confirm thereby displaying the "Select destination" page with the options "Street address", "Intersection", "Points of Interest", "Destination memory", "Recent destinations" and "Go back" (dwg. 5.C.).

"Go back"

Selecting "Go back" takes you back to the main page of the navigation functions (dwg. 5.A.).

5.1.1 Entering the "Street address" field

The option "Street address" displays a new

function page for entering the city, street and number, which always show the data concerning the destination calculated last. The same page shows the other functions "Store", "Guidance", "Centre ☐ / ☒ " and "Go back" (dwg. 5.D.).

Entering the city name

The city name is entered moving the cursor to "City" with knob **11** and pressing to confirm. On the "Enter city" page (dwg. 5.E.) the single characters of the town name are selected with knob **11**. The characters selected are enlarged in the zoom field. The blank space between two characters is obtained selecting " _ ".

Quick entry

Each time a character is selected a search takes place for the existence of a city name with the characters entered so far in the memorised list. Only those characters still required still required for completing the name will then appear for selection. The city field is filled as soon as a city is located from the list.

Warnings

— When entering the city name, after entering a few characters, you are advised to select “List” and then the destination directly with knob **11** and activate it.

The number shown at the side of the “List” indicates the number of towns in the list with name corresponding to the characters entered up to now in the town field.

— When entering characters the list appears automatically if the character selector knob is pressed for more than 1 second.

“Delete”

The “Delete” function is selected turning knob **11** to the right makes it possible to:

— delete a character pressing for less than 1 second;



5.F.

— delete the whole entry pressing for more than 1 second.

“OK”

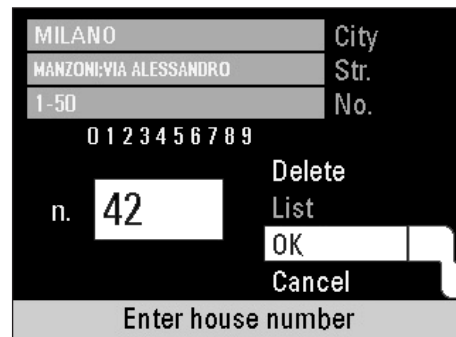
The “OK” function confirms city entry returning to the “Enter destination” function page which now displays the city name.

“Cancel”

With the “Cancel” function you return to the “Enter destination” function page without memorising the data.

Street name entry

The street is entered using knob **11** to move the cursor to “Str.” and confirming. In the “Enter street” page (dwg. 5.F.) the sin-



5.G.

gle characters of the street name are selected with knob **11**. The characters selected are enlarged in the zoom field.

Warnings

— If the street field is not completed, the navigation system automatically leads you to the centre of the city selected indicating this (Centre ☒).

— The navigation always takes you to the centre in the case of very small towns.

Entering the house number

The house number is entered with knob **11** moving the cursor to “No.” and confirming. In the “Enter house number” page (dwg. 5.G.) the options “Delete”, “OK” and “Cancel” are available.



5.H.

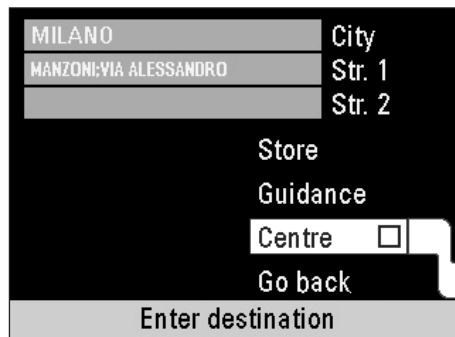
Warning If the house number field is not completed the navigation system assumes the whole street as destination.

“Store”

The “Store” function memorises the information concerning the address entered with the name you want with knob **11**.

The “Store destination” function page brings forward the address, name for store destination, selectable characters, zoom fields and the functions “Delete”, “OK” and “Go back” (dwg. 5.H.).

The “Store as:” field for the destination to be memorised can have a maximum of 14 characters on which it is possible to act using functions “Delete”, “OK” and “Go back”.



5.I.

“Guidance”

Selecting “Guidance” with knob **11** starts the calculation of the destination, followed by display of the main navigation page (dwg. 5.A.).

“Centre ☐ / ☒”

Enabling the option “Centre ☒” leads to the centre of the city selected. This function is enabled automatically if only the destination city name is indicated. If this option is chosen the system automatically moves the cursor to the “Str.” field in which it is possible to enter the street name.

After entering the name of the street you can choose to be guided to the centre or to

the address entered (“Centre ☒”), enabling or disabling the “Centre” function with knob **11**.

“Go back”

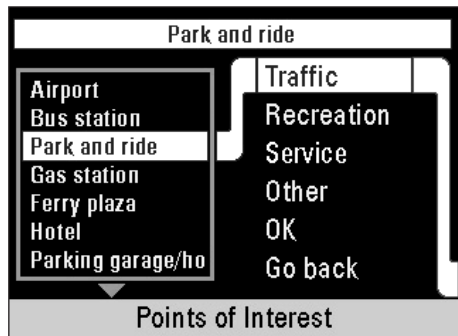
Selecting “Go back” with knob **11** displays the “Select destination” function page again where a new destination can be entered.

5.1.2 Entering the destination “Intersection”

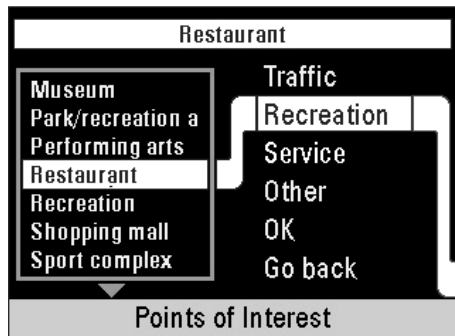
The option “Intersection” displays a new page for entering the city and two streets, the intersection point of which is the required destination. This page also contains the functions “Store”, “Guidance”, “Centre ☐ / ☒” and “Go back” (dwg. 5.I.).

Entering the city name and first street follow the same procedure as described for entering the address fields, while for the name of the second street simply select the name from the list displayed.

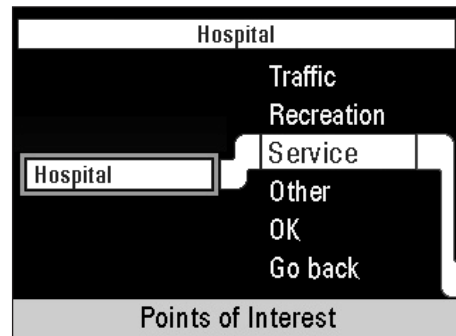
Warning If the name of the 2nd road is not entered, or is not available in the list, the first road is considered as destination.



5.J.



5.K.



5.L.

5.1.3 Entering the destination "Points of Interest"

With the function "Points of Interest" it is possible to memorise the preferred navigation destinations. Selecting "Points of Interest" a function page is displayed with the items "Traffic", "Recreation", "Service", "Other", "OK" and "Go back" (dwg. 5.J.).

"Traffic"

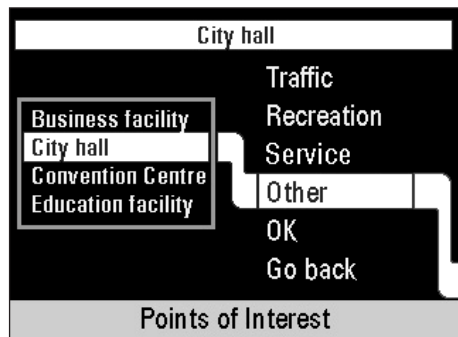
The option "Traffic" displays a list of destinations of this category (hotels, airports or stations etc.) which can be selected with knob **11**. The item selected also appears in the upper window of the function page (dwg. 5.J.).

"Recreation"

The option "Recreation" displays a list of destinations of this category (monuments, museums, sport facilities etc.) which can be selected with knob **11**. The item selected also appears in the upper window of the function page (dwg. 5.K.).

"Service"

The option "Service" displays a list of destinations of this category (mechanical workshops, hospitals, fuel stations etc.) which can be selected with knob **11**. The item selected also appears in the upper window of the function page (dwg. 5.L.).



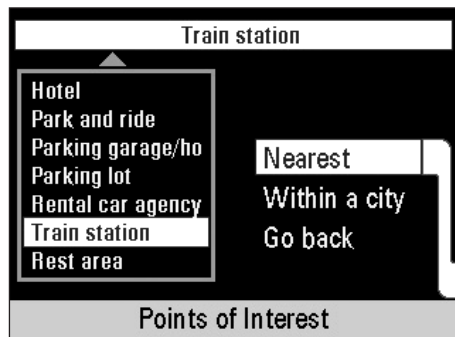
5.M.

“Other”

The option “Other” displays a list of destinations of this category (firms, city hall etc.) which can be selected with knob **11**. The item selected also appears in the upper window of the function page (dwg. 5.M.).

Criteria for choosing and selecting the town for points of interest

Confirming the selection of a point of interest, the cursor automatically moves “OK” and confirming displays the “Points of Interest” function page with the selection criteria “Nearest”, “Within a city” and “Go back” (dwg. 5.N.).



5.N.

“Nearest”

The option “Nearest” displays:

- a list with the points of interest with growing distance in a straight line in relation to your current position starting from the nearest;
- a field with the city address;
- the street of the selected destination;
- the “Info” function;
- the “Go back” function.

The required destination is selected and activated with knob **11** (dwg. 5.O.). The option “Store” memorises the destination in the destination memory. The option “Guidance” calculates the route then dis-



5.O.

playing the main navigation page. The option “Go back” takes you back to the previous “Points of Interest” function page.

The “Info” function displays the “Points of Interest - Info” page with information about the points of interest selected (dwg. 5.P.). The “” symbol is shown only if the telephone number of the point of interest selected is available.

The “Call” option makes it possible to directly call the number shown in the information about points of interest selected.

“Go back” takes you back to the previous page.



5.P.



5.Q.



5.R.


"Within a city"


The option "Within a city" displays the function page "Select city" which makes it possible to seek points of interest in a chosen city. This page contains the entry fields for the city name, usable characters, zoom and the options "Delete", "List", "OK" and "Cancel" (dwg. 5.Q.), which are accessed as described in paragraph 5.1.1.

Confirming the selection a list is displayed with the points of interest in alphabetical order among which it is possible to select and activate the required destination with knob **11**.

The option "Store" can then memorise the destination in the destination memory. The option "Guidance" calculates the route then

displaying the main navigation page. The option "Go back" returns to the previous "Points of Interest" function page.

The "Info  " function displays the "Points of Interest - Info" page with information about the points of interest selected (dwg. 5.R.).

The " " symbol is shown only if the telephone number of the point of interest selected is available.

The "Call" option makes it possible to directly call the number shown in the information about points of interest selected.

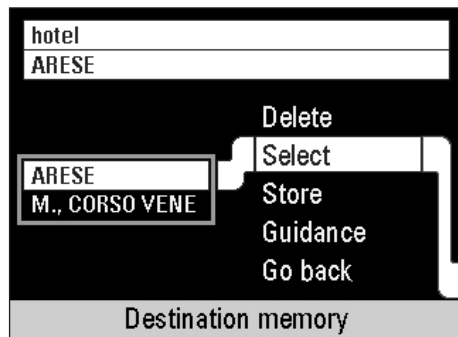
"Go back" takes you back to the previous page.

5.1.4 Entering the destination "Destination memory"

The option "Destination memory" displays the function page "Select destination memory" with the list of memorised navigation destinations of up to a maximum of 20 destinations. The same page also contains the options "Delete", "Select", "Guidance" and "Go back" (dwg. 5.S.).

Selecting from the destination memory

The option of the destination memory takes place selecting the destination through knob **11** and pressing it to confirm. The screen also displays the data about the address and destination for the destination selected. Then



5.S.

selecting "Guidance" starts calculation of the route and it is possible to move to the navigation function page with the arrows.

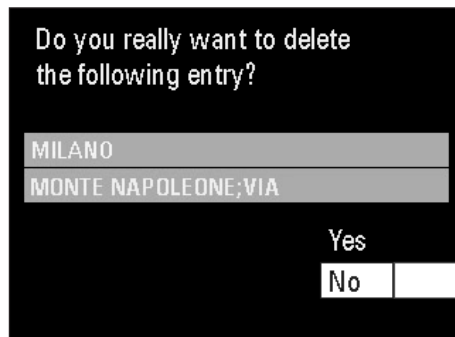
The option "Go back" takes you back to the previous function page.

Deleting items from the destination memory

Deleting items from the destination memory takes place selecting the destination with knob **11** and pressing it to confirm. The highlighted destination is deleted selecting "Delete".

"Yes" (confirm)

The delete operation is protected against accidental actions asking whether you real-



5.T.

ly intend to proceed. Choosing "No" takes you back to the last function page (dwg. 5.T.).

Warning

If the destination memory already contains 20 items, to enter new destinations it is necessary to delete an item from the existing list. In this case the system shows the warning "Destination memory complete! Clear one item!".

5.1.5 Entering the destination "Recent destinations"

The option "Recent destinations" displays the "Select recent destinations" function page with a list of the last 5 destinations



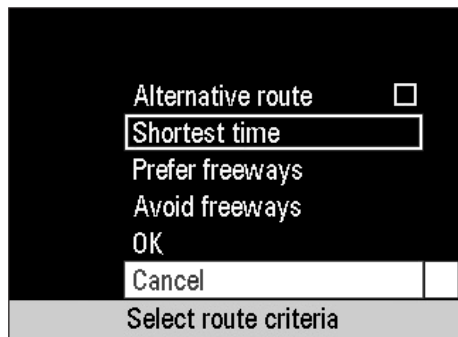
5.U.

entered with the options "Delete", "Select", "Store", "Guidance" and "Go back" (dwg. 5.U.).

The destinations are selected and deleted as described in paragraph 5.1.4.

5.2 ROUTE SELECTION CRITERIA

The criteria selection function makes it possible to affect route calculation according to determinate parameters. The "Select route criteria" screen (dwg. 5.V.) is accessed from the main navigation function page (dwg. 5.A.) selecting "Route" with knob **11**. The selection made remains active for each subsequent calculation until the criteria are modified again. The following possibilities of choice are offered:



5.V.

5.2.1 "Alternative route"

This selection accesses a screen with the following functions:

"Current way" ☐ / ☒

This maintains the route settings preselected automatically by the NAV system. If no alternative route is selected the item selected is ("Current way ☒").

"Next ... km" ☐ / ☒

This can select an alternative route for a number of kilometres to be selected, starting from the current position, using knob **11** and pressing it to confirm. The interval between the km of route changing depends on the distance from the chosen destination. When the

function is selected the \hookrightarrow symbol is displayed on the main NAV menu after the item "Route" to highlight the choice.

"Special route"

With this you select an interval of roads to be avoided on the route to destination. The I.C.S. system offers the possibility of selecting the first and last road from a list of possibilities. This way the alternative route is calculated and the symbol \hookrightarrow is displayed on the main NAV menu after "Route".

"OK"

The function confirms the choice made.

"Cancel"

Selecting "Cancel" the data are not saved and the previous menu is displayed.

5.2.2 "Shortest time"

This allows you to reach your destination as fast as possible.

5.2.3 "Prefer freeways"

This considers the use of freeways in calculating the route.

5.2.4 Avoid freeways

This considers the less possible use of freeways.

5.2.5 "OK"

Pressing "OK" activates the function selected.

5.2.6 "Cancel"

This takes you back to the main navigation page without activating any criteria in calculating the route.

5.3 DESTINATION GUIDANCE AND ORIENTATION HELP

Guidance to destination takes place through voice instructions accompanied by graphic representation of the recommended directions to follow and an arrow showing the direction of the destination.

5.3.1 Voice instructions

The voice instructions guide you to destination advising you in time of all the manoeuvres to be carried out, and in particular first the manoeuvre is announced and then detailed instructions are provided to which access is possible through the REP key **15**.



5.W.

5.3.2 Graphic instructions

On the main navigation page, and on the MAIN page, the bar arrows display all the manoeuvres to be accomplished. The shape of the arrow represents the next manoeuvre/turn left, right, straight on or turn back. The name of the next road to follow is shown above the arrow while the current one is shown under the arrow.

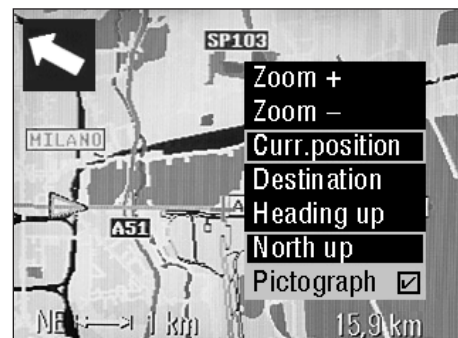
The distance from the next manoeuvre is also indicated highlighting your progress with the gradual filling of the bar arrow. Therefore the clearer the arrow, the nearer you are to performing the suggested manoeuvre (dwg. 5.W.).



5.X.

5.3.3 Map representation

Pressing the MAP key **12** it is possible at all times to move to the colour map page, where the vehicle is shown with a triangular arrow with the tip pointing in the direction of travel (dwg. 5.X.). In the more complex indications, a yellow arrow will show the direction to be followed. The destination to be reached is always shown by a red cross while the items of the route: roads, rivers, railway lines are shown with coloured lines. A pop-up menu on this page makes it possible to activate the functions "Zoom +", "Zoom -", "Curr. position", "Destination", "Heading up", "North up" and "Pictograph ☐ " (dwg. 5.Y.), which can be called pressing knob **11** each time.



5.Y.

"Zoom +"

Selecting "Zoom +" enlarges the visible area of the map and the unit of measurement is shown in the lower window of the monitor (among 50 m, 100 m, 200 m, 500 m, 1 km, 2 km, 5 km, 10 km, 20 km, 50 km and 100 km).

"Zoom -"

Selecting "Zoom -" the visible area of the map is reduced.

Warning Enlarging the visible area of the map is also possible turning knob **11** to the right and reduction turning to the left.

"Curr. position"

Selecting "Curr. position" the visible map

area is taken to the current position in relation to the car.

“Destination”

Selecting “Destination” displays the visible area of the map of the destination and the destination is shown by a red cross.

“Heading up”

Selecting “Heading up” the visible area of the map is shown with the upper edge of the monitor indicating the direction of travel (for scales up to 1 km).

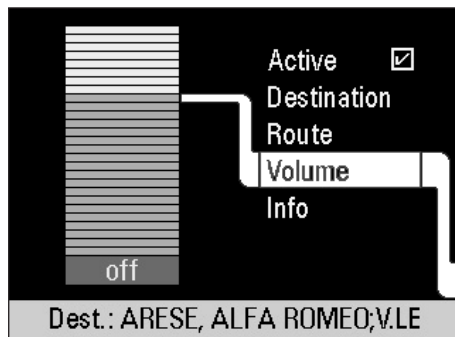
“North up”

Selecting “North up” the visible area of the map is shown with the upper edge of the monitor indicating north (for each scale).

“Pictograph” ☐ / ☒

Activating this function (“Pictograph ☒”) is highlighted with a white arrow in a box at the top of the display, showing the direction of the destination. When you are near your destination, the arrow is coloured.

Travelling on a road not memorised on the navigation CD-ROM, with guidance to destination activated, you will receive a voice message that the “Route is in the direction indi-



5.Z.

cated”. In these conditions, and until you find the suggested route, the main navigation page or the MAIN display show the name of the road and the arrow indicating the direction towards the start of the recommended route.

If the vehicle is outside the territory on the navigation CD-ROM, confirming “Guidance”, appears on the main navigation page and on the MAIN display will show the warning “Route calculation impossible: vehicle off map”.

5.4 VOLUME CONTROL

Volume adjustment is obtained selecting “Volume” with knob **11** and using the bar regulator (dwg. 5.Z.). To end adjustment



5.Z.1.

press knob **11**. The voice instructions for controlling the volume are repeated cyclically. During a voice instruction the volume can also be changed with knob **21**.

The voice instructions can also be accessed again pressing the REP key **15**.

5.5 INFORMATION PAGE

Through the information page it is possible to access the “Navigation info” function page which is subdivided into 3 sectors, with the current navigation data (dwg. 5.Z.1.).

Upper area

— distance to destination, with guidance to destination activated;

- destination name;
- or
- warning “No destination”.

Centre area

- current position of car;
- town/road;
- latitude (N/S) and longitude (E/W) in degrees (°), minutes (') and seconds (").

Lower area

Satellite reception data x sat./yD-GPS where:

- x number of receivable satellites (from 0 to 6);

- y positioning (0, 2 or 3)

0D-GPS: positioning impossible

2D-GPS: at least 3 satellites are receivable for bidimensional positioning

3D-GPS: at least 4 satellites are receivable for three-dimensional positioning.

The option “Go back” allows you to go back to the main navigation page.

5.6 INDICATION OF DISTANCE FROM DESTINATION AND ARRIVAL TIME

The indication of the distance from destination and the calculated arrival time is displayed on the main navigation page under the option “Info”. The exact calculation of the distance from destination is only shown at the end of processing, otherwise an estimated value is given.

5.7 ACTIVATING/DEACTIVATING THE NAVIGATION FUNCTION

Activation of the navigation function (Active ☒) enables the guidance to destination function with which it is possible to completely enter the destination before calling for the navigation help you require.

Warning Each time guidance to destination is enabled or disabled a new route calculation is made for the current destination.

6. ON-BOARD COMPUTER (TRIP)

General information

The on-board computer (TRIP) provides a series of helpful data such as average consumption, distance from destination or foreseen arrival time. Through the computer the contrast, language, etc. can also be personalised. The main TRIP function page (dwg. 6.A.) is accessed pressing key **26**.

Functions

- residual autonomy, consumption, average speed, distance from destination, foreseen arrival time, speed limit with visual and acoustic warning if the pre-set speed limit is exceeded;
- setting the language, unit of measurement for consumption, distance, temperature, date and time, monitor characteristics;
- display of time, outside temperature, information on audio or telephone.

6.1 REQUEST FOR STATISTICAL DATA

Statistical data is requested highlighting the data required with knob **11** and pressing to confirm.

Range	Journey data
km 467	- to dest.
Distance	- since 8:49
km 6.2	- continued
Time of arrival	Settings
h:min 9:07	Reset
Limit	
kmph 130	
9:04 9.0 °C	RAI MF2

6.A.

6.1.1 "Journey data to destination"

The statistics to destination given by the computer are:

- calculation of residual autonomy on the basis of average consumption and fuel tank contents;
- calculation of the distance from destination in relation to the current position;
- calculation foreseen arrival time on the basis of the distance from destination and average speed;
- visual and acoustic warning of maximum speed limit in relation to the pre-set value.

Warnings

- On versions with navigation system and

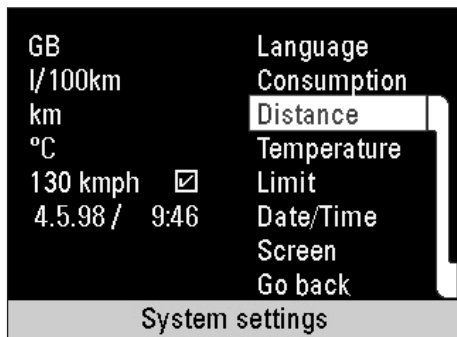
Travel time	Journey data
h:min 0:15	- to dest.
Dist. covered	- since 8:49
km 35.0	- continued
Ø speed	Settings
kmph 140.7	Reset
Ø consumption	
l/100km 10.4	
9:04 9.0 °C	DEEJAY

6.B.

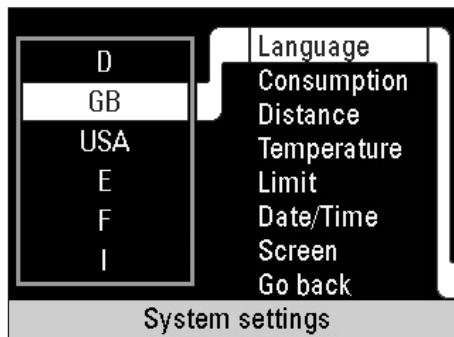
guide to destination activated, the "Journey data to destination" are calculated in relation to the destination on. On versions without navigation system or with navigation system but with guide to destination off, the "Journey data to destination" are calculated in relation to the destination set.

- System ceases indicating residual endurance for values less than 15 km (dashes are displayed in lieu of km endurance values).

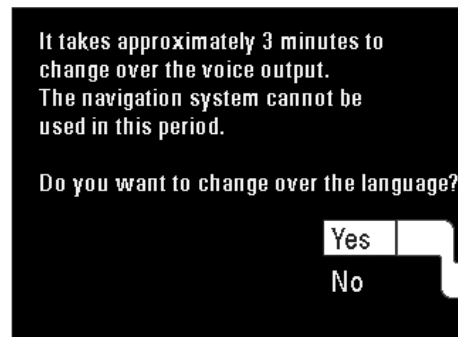
— In case of refuelling with fuel pilot lamp on, system will update residual endurance, at the end of refuelling, only if fuel tank contents are equal to or exceed 1/4 of its capacity (18 litres). In case of lower refuelling quantities, residual endurance display will remain the same as before refuelling.



6.C.



6.D.



6.E.

6.1.2 "Journey data since hh:mm" and "Journey data continued"

Statistics are available (dwg. 6.B.) concerning:

- travel time from last reset;
- route covered from last reset;
- average speed from last reset;
- average consumption from last reset.

Resetting statistics

Selecting the "Reset" function pressing knob **11** for more than 1 second, it is possible at all times to start calculation of "Journey data from hh:mm" or "Journey data continued" again. "Journey data from hh:mm" are also reset automatically after a vehicle halt, with the ignition key removed, for over 2 hours.

6.2 I.C.S. SYSTEM SETTINGS

The current I.C.S. system settings are displayed selecting with knob **11** from "Settings" the eight options available one at a time ("Language" ... "Go back") and modifying them according to your own requirements (dwg. 6.C.).

6.2.1 Language

The language can be selected with knob **11** choosing between German (D), English (GB or USA), Spanish (E), French (F) and Italian (I) (dwg. 6.D.).

Selecting a different language than the current one the following warning is displayed:

"It takes approximately 3 minutes to change over the voice output. The naviga-

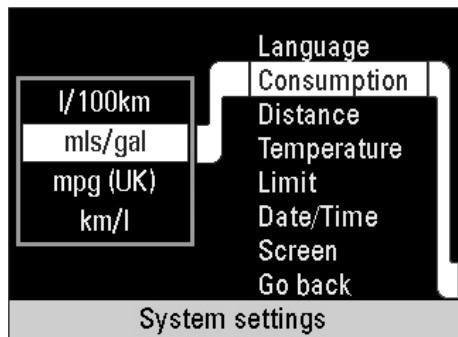
tion system cannot be used in this period. Do you want to change over the language?" and you are offered the possibility to accept or refuse your choice (dwg. 6.E.).

If you confirm that you want to change language the texts change immediately and the voice navigation instructions change after about 3 minutes, otherwise, if you refuse, you return to the current language.

6.2.2 Consumption

In "Consumption" it is possible to use knob **11** to select the units of consumption (dwg. 6.F.):

- km/l: kilometres per litre
- l/100 km: litres per 100 kilometres



6.F.

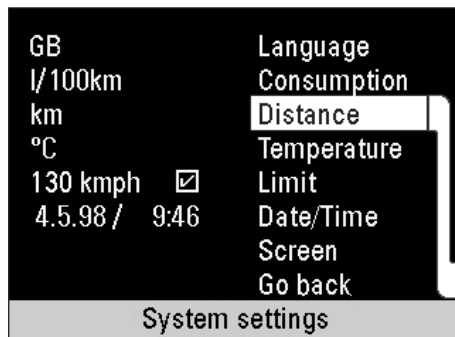
- mls/gal (US): miles per US gallon
- mpg (UK): miles per UK gallon

6.2.3 Distance

Choosing the “Distance” option on the settings page (dwg. 6.G.), the system shows one of the conditions described below, in relation to the presence of the navigation system and activation of guidance to destination.

Versions with navigation system and guidance to destination on

In this case choosing the option “Distance” the system settings page (dwg. 6.G.) will show a screen with which it is possible to set the corresponding unit of measurement (kilometres or miles). In this



6.G.

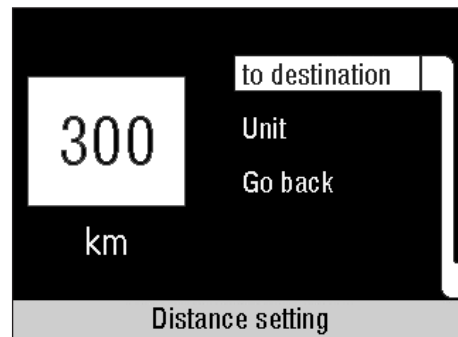
case “Statistics to destination” will be calculated depending on the destination activated.

Versions without navigation system or with guidance to destination off

In this case choosing the option “Distance” the system settings page (dwg. 6.G.) will show a screen (dwg. 6.H.) with the functions “to destination”, “Unit” and “Go back” with which it is possible to set the distance to the destination and the corresponding unit of measurement (kilometres or miles).

“to destination”

Choosing and confirming this function on the “Distance setting” page, using knob **11** (dwg. 6.H.), it is possible to set the distance



6.H.

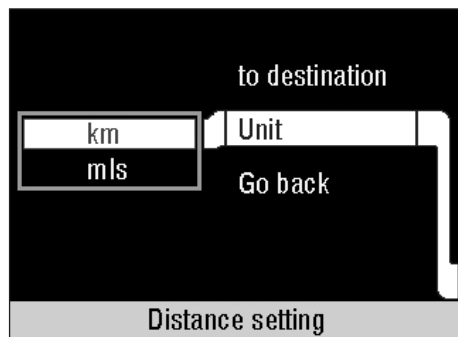
in relation to which the “Statistics to destination” will be calculated given in the main page of the TRIP function. The distance set will be shown in the square on the left-hand side of the display (dwg. 6.H.).

On versions fitted with navigation system, when guidance to destination is turned on this is automatically taken as reference in calculating the “Statistics to destination”.

“Unit”

Choosing and confirming this function on the “Distance setting” page, using knob **11** (dwg. 6.I.), it is possible to choose the unit of measurement of the distance set:

- km: kilometres
- mls: miles.



6.L.

To change the unit of measurement set, highlight it and confirm with knob **11**.

"Go back"

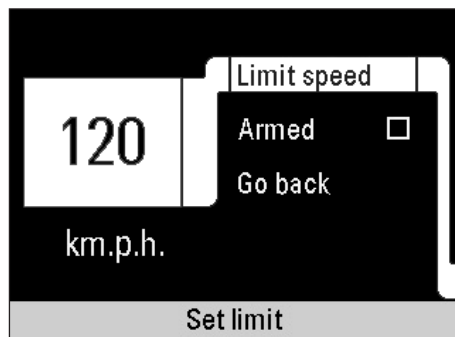
The "Go back" option on the "Distance setting" page (dwg. 6.L.) allows you to return to the system function settings page (dwg. 6.G.), storing the distance to destination set and the corresponding unit of measurement.

6.2.4 Temperature

In "Temperature", on the system settings page, it is possible to use knob **11** to select units of temperature:

°C: Celsius

°F: Fahrenheit.



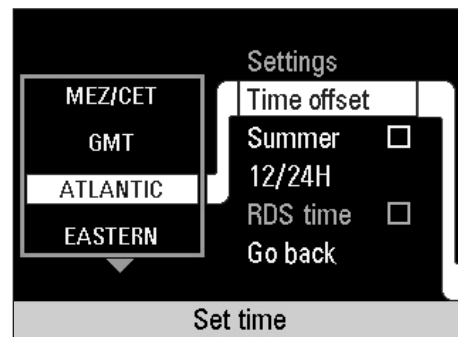
6.L.

6.2.5 Limit

In "Limit" it is possible to use knob **11** to set the speed limit beyond which the system gives a visual and acoustic signal for approx. 3 seconds (dwg. 6.L.).

Limit setting

The "Limit speed" is set turning knob **11** left to lower the speed limit or right to increase it. Depending on the speed with which the knob is turned the value is increased in steps of 1, 5 or 10 km/h (or mph). The end of the setting operation is confirmed pressing knob **11** again and the speed limit is activated immediately.



6.M.

"Go back"

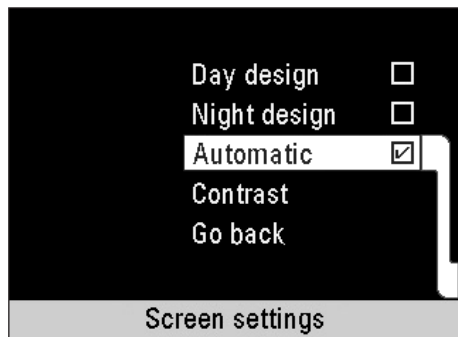
The function "Go back" takes you back to the I.C.S. system setting function page.

6.2.6 Date/time

The clock settings (dwg. 6.M.) are obtained choosing and confirming the "Date/time" function on the system settings page (dwg. 6.G.) using knob **11**.

"Time offset"

The option "Time offset" displays the difference between Greenwich GMT (= Greenwich Mean Time) and the CET (Central European Time), GMT, ATLANTIC, EASTERN, CENTRAL, MOUNTAIN and PACIFIC time zones.



6.N.

“Summer”

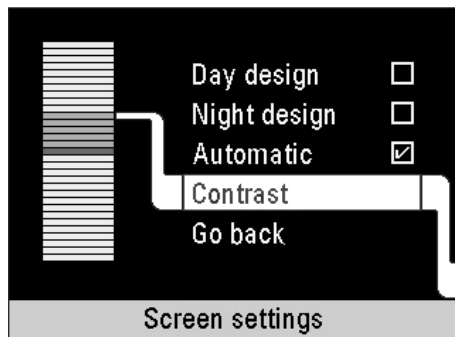
The option “Summer” makes it possible to activate and deactivate summer time with knob **11**.

“12/24H”

The option “12/24H” makes it possible to indicate the time with the 12 or 24 hour system.

“RDS time”

With the “RDS time” function it is possible to receive the hourly information from RDS radio stations; in this case the precision of the time displayed will depend only on the precision of the clock of the radio station to which you are tuned in that moment.



6.O.

“Go back”

The option “Go back” takes you back to I.C.S. setting function page.

6.2.7 Screen setting

The option “Screen” makes it possible to use knob **11** to set the display according to your requirements (dwg. 6.N.).

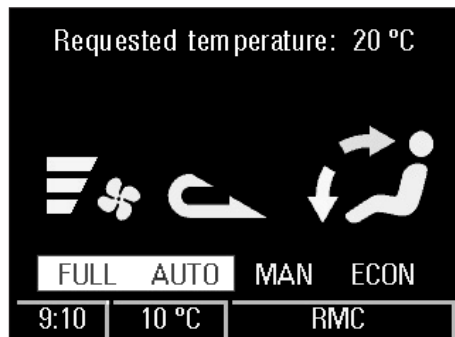
Selecting “Automatic” (Automatic ☒) the monitor colours adapt automatically to day or night conditions depending on the vehicle lighting. It is also possible to select “Day design” or “Night design” (Day design ☒/Night design ☒) to select the set of matched colours.

The option “Contrast” allows you to change the monitor contrast. This is adjusted by a bar regulator (dwg. 6.O.) which can be set turning knob **11**.

7. CLIMATE CONTROL (CLIMA)

General information

The climate control functions (CLIMA) allow you to display and set the air climate control system pressing key **27** (dwg. 7.A.).



7.A.

Operation

- inside temperature in °C or in °F
- fan setting
- setting air distribution: windscreen and side window vents, centre/side and rear outlets, floor vents
- defrost device on/off
- compressor on/off
- recirculation on/off
- automatic operation on/off ("AUTO")
- fan adjustment ("MANUAL").

The lower part of the display shows information about the time, outside temperature, audio settings or information about:

- name, conversation time (min:sec);
- telephone number, conversation time (min:sec)
- status (for example "received SMS message!").

7.1 EQUIVALENT TEMPERATURE

The system makes it possible to control the passenger compartment climate maintaining the “equivalent temperature” level required by the driver. This “equivalent temperature” is an estimator of the ideal temperature (obtained through the development of a complex patented mathematical algorithm) needed to obtain the best temperature and well-being in the passenger compartment.

To bring about this operating condition, select:

- the “equivalent temperature” required pressing button **28**;
- the **AUTO** position pressing the button **30**.

WARNING The compressor can be turned on/off automatically or manually. To switch from one operating mode to the other see the “Compressor on/off button” paragraph in this chapter.

7.2 DESCRIPTION OF CONTROLS

27 - Climate control dedicated screen selector button

28 - Rocker button for adjusting the air “equivalent temperature” of the passenger compartment

29 - Rocker button for fan speed adjustment

30 - Automatic system operation selector button

31 - Climate control compressor on/off button

32 - Climate control system on/off button

33 - Rocker button for selecting air distribution

34 - Air recirculation on/off button

35 - Maximum defrosting/demisting on/off button for windscreen and front side windows, rearscreen heating, door mirror resistances and resistance at windscreen base (where applicable)

36 - Rearscreen heating and mirror and resistances in windscreen blade parking area at windscreen base (where applicable) defrosting on/off button.



Adjustment button for required equivalent temperature

Pressing this rocker button up or down respectively raises or lowers the equivalent temperature required in the passenger compartment.

Pressing the button upwards or downwards to the extreme **HIGH** or **LOW** positions, the functions with the highest heating or cooling power are engaged.



Fan speed adjustment button

Pressing this rocker button up or down respectively increases or lowers the fan speed (thus the amount of air admitted to the passenger compartment), while maintaining the objective of the equivalent temperature required.



Automatic operation button

Pressing the **AUTO** button the system automatically adjusts the amount and distribution of air admitted to the passenger compartment.

 ECON

Compressor on/off button

Pressing the **ECON** button turns the climate control compressor on/off.

WARNING With the compressor off it is not possible to admit air to the passenger compartment at a temperature below the outside temperature, in particular environment conditions, the windows may quickly steam.

 OFF

Climate control on/off button

Pressing the **OFF** button turns the climate control on/off (including ventilation only).

WARNING With the climate control off and in particular environment conditions, the windows may quickly steam.

 MODE

Passenger compartment air distribution button

Pressing the **MODE** rocker button towards the left and/or right manually selects air distribution in the passenger compartment, while maintaining the objective of the equivalent temperature required.



Air recirculation on/off button

Pressing this button engages/disengages recirculation of the air admitted to the passenger compartment.

WARNING Depending on how the system is working (heating or cooling the passenger compartment) the recirculation function makes it possible to reach the required conditions faster. It is however inadvisable to use this function on rainy/cold days as it would considerably increase the possibility of misting the windows, especially if the conditioner is off. It is advisable to use this function when the vehicle is stationary in a queue or tunnel to prevent polluted air from entering the passenger compartment. Prolonged use of this function should however be avoided, especially if there are several persons aboard.



Windscreen and front side windows demisting/defrosting button

Pressing this button the climate control automatically activates the necessary functions (quantity, distribution, temperature of the air admitted to the passenger compartment) to quicken demisting/defrosting of the wind-

screen and front side windows. Rearscreen heating, door mirror heating and the resistances at the base of the windscreen (in the wiper blade parking area) are also automatically engaged (for a determinate length of time) where applicable.



Rearscreen demisting/defrosting on/off button

Pressing this button engages demisting/defrosting of the rearscreen, door mirrors and (optional for versions/markets where applicable) the resistances at the base of the windscreen (in the wiper blade parking area).

WARNING Do not stick stickers on the inside of the rearscreen over the heating filaments to prevent damage that might adversely affect the system.

7.3 DESCRIPTION OF OPERATING STRATEGIES

Operating the  **AUTO** button, the climate control system sets to automatically control the following functions:

- temperature of the air at the vents and outlets

- fan speed (constantly changing)
- air distribution
- air recirculation
- compressor engagement.

It is still however possible to intervene manually on the following functions:

- fan speed
- air distribution
- air recirculation
- compressor engagement.

The functions activated manually have priority over the automatic ones and they remain memorised until automatic control is re-activated.

With one or more functions engaged manually, adjustment of the temperature admitted to the passenger compartment still continues to be controlled automatically by the system except with the compressor off: in fact, in this condition, the air admitted to the passenger compartment cannot have a lower temperature than the outside air.

Pressing the **AUTO** button for engaging/disengaging automatic operation, the system may be in one of the following conditions:

- **FULL AUTO** with automatic control of the fan speed and air distribution;
- **AUTO** with automatic control only of the fan speed or of air distribution according to the driver's preference;
- **MAN** with manual operation where the driver controls the fan speed and air distribution directly.


Pressing the **ECON** button turns the compressor on/off. With the compressor off, the air admitted to the passenger compartment can not be cooled or dehumidified and recirculation is switched off automatically to avoid misting the windows: when wanting to activate recirculation in this condition, press the corresponding **C** button.


Pressing the **ECON** button again with the compressor off, will restore the operating conditions of before the compressor was turned off.


Pressing the **OFF** button turns off/back on the climate control, in the former case air is no longer admitted to the passenger compartment which is thus isolated from outside, in the latter, the previous operating mode is restored.


Pressing the **MODE** button selects the possible air distributions to the passenger compartment:

 Flow of air towards the windscreen and front side windows

 Distribution of the flow between the windscreen/front side windows and lower part of the passenger compartment


 Main flow of air to the lower part of the passenger compartment and secondary flow of air towards the windscreen/front side windows

 Distribution of the flow between the upper centre, centre and side dashboard outlets and rear outlets


 Flow of air towards the centre upper vent, centre and side dashboard outlets and rear outlets.


If the system was in the **FULL AUTO** mode, pressing the **MODE** button passes to the simple automatism condition: i.e. the system chooses the fan speed and mixing to obtain the equivalent temperature required, but will not change the distribution selected manually.

Pressing the recirculation button **C**, the system automatically reactivates the compressor if it was deactivated manually or au-

tomatically; to maintain recirculation with the compressor of, it is necessary to press the  button to deactivate the compressor.

WARNING In this condition (recirculation on and compressor off), remember that the windows may steam up very quickly.

Pressing the  button the climate control automatically activates the functions required to quicken demisting/defrosting of the windscreen and front side windows. Rearscreen heating and door mirror heating are also automatically engaged (for a determinate length of time).

Pressing the  button engages rearscreen heating and door mirror heating for a determinate length of time.

Manually setting one of the climate control functions, the others continue to be controlled automatically; in particular the air temperature is always controlled automatically to reach the required “equivalent temperature” in the passenger compartment.

WARNING When working in the **FULL AUTO** condition, the system can automatically engage recirculation or deactivate the compressor to cool/heat the passenger compartment faster or demist/defrost the windscreen and side windows.

WARNING When the engine is turned off the system memorises the climate control operating condition, which will be automatically resumed when the engine is started again.

8. STATUS MESSAGES, GENERALITIES AND TECHNICAL INFORMATION

8.1 STATUS MESSAGES - TROUBLESHOOTING

The following list shows the messages that may appear on the I.C.S. display and the corresponding functions or causes not mentioned previously.

Message	Function/cause
Your card is now unusable! Contact your network operator.	A wrong SUPER-PIN has been entered 10 times.
Card blocked! Copying operation interrupted (merge operation interrupted).	In the copying or merge operation a wrong PIN number has been entered 3 times.
Card blocked! Operation interrupted.	In the PIN query/modify function a wrong PIN number has been entered 3 times.
SIM card faulty!	The SIM card is faulty.
Warning: highest telephone module temperature reached. Stop phoning!	The maximum temperature for the telephone function has been reached.
Warning: telephone function deactivated because maximum operating temperature exceeded: telephone ready after cooling.	The operating temperature in the telephone module exceeds the allowed limit.
With this card it is not possible to deactivate PIN query.	An attempt has been made to deactivate PIN query with a card that does not have this function.
Changed password for preclusions.	The password has been changed for preclusions.
PIN modified.	The PIN has been modified.
IMEI: no.	IMEI query.

Message

Function/cause

Not happened!

The function for transferring or preclusion can not be performed, e.g. if the preclusion function has not yet been made operational by the network operator.

Tel. number not valid.

The telephone number is not valid e.g. if it contains special characters or if it does not exist.

Temperature out of allowed zone.

The operating temperature in the navigation module is higher or lower than the allowed value.

Insert navigation CD!

Appears after CD eject (pressing eject key) or if your I.C.S. is turned on without navigation CD.

Language update.

Moving to another language or after inserting a new CD the language memory may be updated.

Software updating.

After entering a new CD the system software may be updated.

CD read error! Check CD!

Possible cause:

Remedy:

CD dirty

Clean the CD

CD scratched

Change the CD

CD damp

Wait

Message

Wrong CD.

CD unknown.

Multiple CD read error.

CD inserted wrong way.

Navigation system start.

Function/cause

CD inserted wrong way

Possible cause:

CD scratched

Wrong CD

CD scratched

CD dirty

CD damp

Press the eject key and turn CD over.

Wait for the navigation system to be completely operational.

Turn the CD.

Remedy:

Change the CD

Insert the original Alfa Romeo CD.

Change the CD

Clean the CD

Wait.

Problems

possible causes

elimination

IN GENERAL

Dark monitor

- the "DARK" key has been pressed or
- the car battery is almost flat (if the I.C.S. is working without the engine running)

- press the "DARK" button again
- charge the battery

Display almost illegible

- incorrect monitor settings

- change the contrast (using the TRIP function: settings/monitor/contrast)

AUDIO

Station key not memorised with station name

- the broadcaster occasionally transmits additional information
- poor reception when memorising (the frequency is indicated)
- the broadcaster does not transmit RDS information (the frequency is indicated)

- memorise again when the broadcaster transmits the name

The broadcaster memorised cannot be recalled through the station key

- the broadcaster is not receivable at the moment

Poor cassette playing quality

- head dirty

- use a cleaner cassette

CD player not working

- CD inserted wrongly or loader empty or
- loader empty or
- loader missing

- missinginsert the CD correctly with the loader

Problems

TELEPHONE

Telephone function active, but impossible to phone

Telephone function is active, but you do not receive calls

possible causes

- operative disable or
- insufficient field intensity or
- you are in an area in which you cannot access the network, e.g. due to network overload
- operative disable or
- operative transfer

elimination

- deactivate the disable function
- try later
- try later
- deactivate the disable function
- deactivate the function for transferring

8.2 GENERALITIES

Important numbers for the I.C.S. telephone

We advise you to note some important numbers that may be helpful to you:

IMEI serial number:

.....
.....

your SIM card number:

.....
.....

the phone number of your I.C.S. phone:

.....
.....

phone number of your network provider:

.....
.....

Loss of the SIM card

If you lose your SIM card notify your network provider immediately.

CD-ROM road map for the I.C.S. navigation system

The basis for the I.C.S. navigation system is a road map masterised on CD-ROM.

Attached with the navigation CD-ROM you will find the information about the availability of other road maps and the instructions for receiving future updates.

Alfa Romeo Integrated Control System (I.C.S.) - Controls and functions

1, 2: function source switch key

function:

switching between cassette player ("CC")
CD loader ("CD")

3, 4: band switching key

function:

switching radio band

— between FM and UKW with the "FM"
key

— for MW with the "AM" key

5, 6, 7, 8, 9, 10: keys for memorising
stations from 1 to 6

function:

in radio mode

— pressing for less than 2 seconds: select-
ing memorised stations

— pressing for more than 2 seconds: memo-
rising current station respectively with the cor-
responding name or frequency on this station
(acoustic warning: brief lowering of the vol-
ume)

— pressing for more than 10 seconds:
memorising the current station with fixed fre-
quency (also in the presence of a chain of
RDS stations) on this station key (acoustic
warning: two brief lowerings of the volume,
"F xxx Mhz" appears)

in CD mode

selecting the CD in the loader (max. 6
CD's)

11: knob

function:

turning

— in general: turning respectively right or
left: selection indicator down/left or up/right

— in the function pages with other boxes of
letters/digits: movement of the selection in-
dicator in the direction corresponding to rota-
tion

— if only a section of map is shown (with-
out options): turning respectively left or right:

the map section is enlarged or reduced

pressing

— in general: performance of the highlighted functions or selection of options or list items

— if only a section of map is shown (without options): new options appear

12: MAP key

function:

the "map display" function page comes on and off

13: DARK key

function:

— darkening the I.C.S. monitor and lighting (anti-glare function)

— pressing again: the last function page selected appears

14: telephone card eject key

function:

ejects the SIM telephone card

15: REP key

function:

repeats the last navigation voice instruction with the updated data

16: receiver key

function:

— accepting calls

— dialling the phone number chosen

— end of conversation

17: cassette eject key

function:

— ejects cassette

18: change direction key

function:

changes the direction of the tape

19, 20: seek key

function:

in radio mode:

— pressing for less than 2 seconds: station seeking according to a growing/decreasing sequence (arrow to right/left)

(it stops on the next receivable station)

— pressing for more than 2 seconds: "scan"

each station is heard briefly

(pressing again it stops)

in CD mode

— pressing for less than 1 second: moving to another title forward/backward (arrow to right/left)

— pressing for more than 1 second: fast forward / fast rewind (arrow right/left)

in CC mode

— fast forward/fast rewind (arrow to right/left)

— pressing again: play back

21: volume control (with key function)

function:

turning right/left:

highering/lowering the volume

pressing:

— if the ignition is off: I.C.S. on/off (automatic deactivation after 1 hour of operation)

if a traffic message is in progress: interruption of the message

— if the ignition is turned on: stand-by function (monitor darkened, telephone ready to receive, guidance system deactivated)

— "reactivate" pressing again

— if the phone rings: call not accepted

22, 23, 24, 25, 26, 27: main function keys/display

function:

screen selection

MAIN, CLIMA

and following functions

AUDIO (audio system), TRIP (on-board computer) TEL (telephone) and NAV (navigation)

28: passenger compartment equivalent temperature adjustment key

function:

passenger compartment "equivalent temperature" adjustment

29: fan speed adjustment key

function:

fan speed adjustment

30: automatic mode key

function:

selecting system automatic mode

31: climate control compressor key

function:

turning climate control compressor on/off

32: climate control system key

function:

turning climate control system on/off

33: air distribution key

function:

selecting the air distribution

34: air recirculation key

function:

air recirculation on/off

35: demisting/defrosting key

function:

turning maximum demisting/defrosting on/off

36: rearscreen key

function:

turning on/off rearscreen, door mirror resistances and resistances at the base of the windscreen (where applicable).

8.3 TECHNICAL INFORMATION

FM reception parameters

Sensitivity (26 dB)	$\leq 6 \text{ dB}\mu\text{V}$
S/N ratio (Signal/Noise) at 60 dB μV	$\geq 60 \text{ dB}$
Limit level at -3 dB	$7 \text{ dB}\mu\text{V}$
MW suppression at 16 dB μV	$\geq 28 \text{ dB}$
MW suppression at 60 dB μV	$\geq 50 \text{ dB}$
Selectivity $\pm 200 \text{ KHz}$	$\geq 46 \text{ dB}$
Channel separation at 60 dB μV	$\geq 36 \text{ dB}$
Frequency response	10 KHz
RDS sensitivity	$\leq 24 \text{ dB}\mu\text{V}$

MW reception parameters

Sensitivity limited by noise at -10 dB	$38 \text{ dB}\mu\text{V}$
S/N ratio (Signal/Noise) at 74 dB μV	$\geq 45 \text{ dB}$
Loss of sensitivity at -3 dB	$\geq 90 \text{ dB}\mu\text{V}$
Quality at -10 dB	$27 \text{ dB}\mu\text{V}$

Amplifier

Output (4x4 Ω ; 13.2 V; k = 10%) P _{typ} P _{min}	12 W 10 W
Maximum noise tension measured at speaker output at reduced volume	100 μ V
Volume increments	1.5 dB
Balance + fader increments	1.5 dB
Bass + treble increments	1.5 dB
Interval in FM* frequency	20 Hz .. 10 KHz
Interval in MW* frequency	50 Hz .. 2.5 KHz
Interval in CC* frequency	50 Hz .. 16 KHz
Interval in CD* frequency	20 Hz .. 20 KHz
Interval in Telephone* frequency	250 Hz .. 3 KHz
Interval in Navigation system* frequency	20 Hz .. 10 KHz

* Measured at the highest volume with the loudness function deactivated

Cassette player**

Tape speed	4.76 cm/sec
Minimum tolerance:	—
Maximum tolerance:	−1% / +3%
S/N ratio (Noise/Signal) without Dolby	≥ 50 dB
S/N ratio (Noise/Signal) with Dolby	≥ 54 dB
Frequency response	
Minimum	63 - 12500 Hz
Typical	50 - 16000 Hz
Channel separation	≥ 38 dB

** Values recorded with temperature 20° - 30° C



SERVICE

B.U. AFTER SALES

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