



RADIO-NAVIGATION SYSTEM



The car is fitted with a radio-navigation system designed in accordance with the specific features of the passenger compartment and with a personalised design that blends with the styling of the dashboard.

The system is installed in a user-friendly position for the driver and the graphics on the front panel make it easy to quickly locate the controls which facilitates the use of them.

To increase safety against theft, the set is fitted with a protection system that allows the use of it only on the car on which it was fitted originally.

The pages that follow contain the instructions for use, which we advise you to read carefully and always keep within reach (e.g. in the glove compartment).

So, enjoy your reading and have a good journey.

IMPORTANT For the navigation system only use the original CD provided with the car or in any case other CDs of the same brand.

RADIO-NAVIGATION SYSTEM

ADVICE, CONTROLS AND GENERAL INFORMATION	5	Audio setup function	42
ADVICE	5	CD-CHANGER MODE	42
CONTROLS	10	Shuffle function	44
Steering wheel controls	14	Prog function	44
GENERAL INFORMATION	15	Scan function	45
System power on	16	Compression function	45
System power off	17	CDC setup function	45
Main	18	Audio setup function	47
Protection against theft	19	MP3 MODE	47
AUDIO	21	Main screen options and functions	49
SCREEN OPTIONS AND FUNCTIONS	21	Direct selection function	50
RADIO MODE	22	Define Playlist function	50
TA - Traffic information	24	Playlist function	50
AF - Alternative frequencies	26	Compression function	50
"Frequency" function	26	Scan function	51
Autostore function	27	Shuffle function	51
Preset Scan function	28	Audio setup function	51
Band Scan function	28	Playing the Playlist	52
LOC/DX function	29	Playing CD MP3	53
Radio setup function	29	Define Playlist	54
Mono/Stereo function	29		
PTY-Prog. Type function	30	CELLULAR TELEPHONE WITH VOICE COMMANDS	
RDS function	31	(where provided)	60
Regional	31	GENERAL INFORMATION	60
Audio setup function	32	PRELIMINARY OPERATIONS	61
Auto Vol. Cont. function	35	Entering/exiting the telephone mode	61
CD MODE	37	Inserting telephone card	63
Shuffle function	38	Entering the PIN code	64
Scan function	39	INCOMING CALLS	65
Compression function	39	OUTGOING CALLS	65
CD setup function	39	DIALLING A SERVICE NUMBER	66

NAVIGATOR	92	Trip: reset	123
GENERAL INFORMATION	92		
SCREEN OPTIONS AND FUNCTIONS	93		
GRAPHIC INSTRUCTIONS	94		
VOICE INSTRUCTIONS	94		
NAVIGATION CD-ROM PLAYER	95		
MAIN SCREEN	96		
SELECT ADDRESS	99		
ADDRESS	100		
POINTS OF INTEREST	103		
LAST DESTINATIONS	105		
BOOKMARKS	105		
RDS-TMC	106		
DELETE DESTINATION	108		
VISUALIZATION	108		
VOICE BOOKMARKS	109		
ATLAS	110		
SETTINGS	112		
ON-BOARD COMPUTER (TRIP)	114		
GENERAL INFORMATION	114		
TRIP A and TRIP B function	115		
ETA (Estimated Time of Arrival)	116		
Distance to destination	116		
Speed limit	116		
Km/miles to empty	116		
Instant fuel consumption	117		
Trip time	117		
Distance traveled	117		
Average speed	117		
Average fuel consumption	117		
Trip: speed	117		
Trip: SETUP	118		
Trip: info	121		
VOICE RECOGNITION	124		
GENERAL INFORMATION	124		
VOICE COMMANDS	125		
Keywords	125		
Examples (voice commands)	132		
INFORMATION AND ASSISTANCE SERVICES (SOS) (where provided)	141		
MEDICAL ADVICE FUNCTION	142		
ROADSIDE ASSIST. FUNCTION	142		
PERSONAL NUMBER FUNCTION	142		
EMERGENCY 112 FUNCTION	142		
SETTINGS FUNCTION	143		
CALLS FOR MEDICAL ADVICE OR ROADSIDE ASSISTANCE	144		
INFOMOBILITY SERVICES	145		
SETUP	148		
LANGUAGE	149		
DATE & TIME	150		
VEHICLE	151		
SYSTEM (settings)	156		
FAULTS	160		
INTERNAL FAULTS	160		
OVERTEMPERATURE FAULTS	160		

ADVICE, CONTROLS AND GENERAL INFORMATION

ADVICE

ROAD SAFETY

You are recommended to learn how to use the different functions of the radio-navigation system and in particular of the radio (e.g. storing stations) before starting to drive.



WARNING

Too high a volume when driving can put the driver's life at risk and that of other people. Therefore the volume should always be adjusted in such a way that it is always possible to hear the noises of the surrounding environment (e.g. horns, ambulance, police sirens, etc.).

RECEPTION CONDITIONS

Reception conditions change constantly when driving. Reception can be disturbed by the presence of mountains, buildings, bridges particularly when far away from the broadcaster received.

IMPORTANT When receiving traffic information the volume might be higher than normal.

CARE AND MAINTENANCE

The structure of the radio-navigation system ensures long years of operation with no need for particular maintenance. In the event of a fault, contact Alfa Romeo Authorised Services.

Some care must however be taken to ensure the complete efficiency of the navigation system:

- the monitor is sensitive to scratching, liquid detergents and UV rays;
- liquids that penetrate inside may damage the device irreparably.

Clean the front panel and display only using a soft, dry antistatic cloth. Cleaning and polishing products may damage the surface.



Be careful not to knock the display with pointed or hard objects and avoid touching with the hands. Do not press on the display when cleaning.

IMPORTANT NOTES

- In the event of a fault the radio-navigation system should be checked and repaired only by Alfa Romeo Authorised Services.
- In case of particularly low temperatures the display might take a certain time to reach the optimum brightness.
- In the case of prolonged parking with high outside temperature, the automatic thermal protection of the system may come into action suspending operation until the passenger compartment temperature falls to acceptable levels.

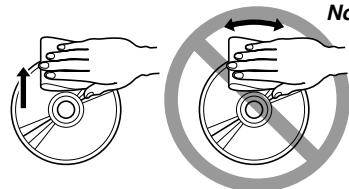
Compact Disc

Remember that dirt, marks or distortion on Compact Disc can cause skipping. To obtain optimum playing conditions we give the following advice:

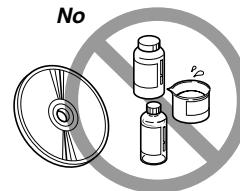
- Only use Compact Discs which have the following brand:



- Carefully clean all Compact Discs of fingerprints and dust using a soft cloth. Support Compact Discs from the outer circumference and clean from the centre outwards;



- Never use chemical products for cleaning (e.g.: spray cans, antistatic or thinners) as they might damage the surface of Compact Discs;

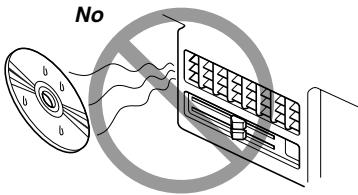


— To remove a Compact Disc from its container, press the centre and raise the disc carefully, holding it by the outer circumference.

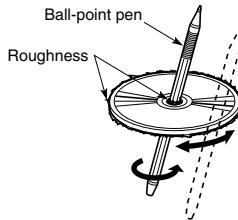


— After use, put Compact Discs back in their container, to avoid marks or scratches that may cause skipping when playing;

— Do not expose Compact Discs to direct sunlight, high temperatures or damp for prolonged lengths of time to prevent them from bending;

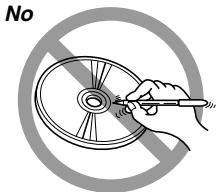


— New discs may be rough around the edges. When these discs are used, the player might not work or the sound might skip. To remove the roughness from the edge of the disc use a ball-point pen, etc.



— Do not stick labels or write on the recorded surface of Compact Discs.

— Do not use highly scratched, cracked, or distorted discs, etc. The use of these discs will involve malfunctioning or damage to the player.



IMPORTANT

— As concerns Audio Compact Discs (CD-DA), best playing is obtained by using only original CDs.

— Proper operation is not guaranteed when using R/RW CDs not properly mastered and/or with max. capacity exceeding 650 MB.

— Should copy-protected CDs be used, then, few seconds may be required for playing them. Moreover, due to the proliferation of always new and different protection methods, it is not guaranteed that the CD player can play whatever protected disc. Copy protection is often indicated on the CD cover in small letters or hard to read characters. Usually it is indicated by writings like: "COPY CONTROL", "COPY PROTECTED", "THIS CD CANNOT BE PLAYED ON A PC/MAC", or it is identified by symbols like:



Protected discs (and their cover) very often are not marked with the audio CD identification symbol:



— When loading a multi-session CD, only the first session will be played.

— Never use 8 cm Audio CDs or MP3 CDs (even with the specific adapter), since these CDs could damage the system.

— Do not use the protective sheets for CD in commerce or discs with stabilisers, etc. as they might get stuck in the internal mechanism and damage the disc.

— The CD player can read most of the compression systems currently on sale (e.g.: LAME, BLADE, XING, FRAUNHOFER) however, due to the evolution of these systems, reading of all compression formats is not guaranteed.

GENERAL INFORMATION

The radio-navigation system controls and provides information for the following systems and functions:

- GPS (Global Positioning System) based navigation;
- Sound system with RDS (Radio Data System) radio, MP3, CD and CD Changer (where required);
- GSM (Global System for Mobile Communication) based telephone with WAP and SOS-call (emergency call) functions;
- Voice recognition (VR module) with voice synthesis and voice memo.

The radio-navigation system mainly consists of the following:

- a keyboard made up of 29 keys 3 of which located on the ceiling light fixture (where provided) and 2 knobs;
- controls on steering wheel;
- electronics boxed in a properly housing located inside the dashboard.

The interface is the multifunction information display for all the integrated components.

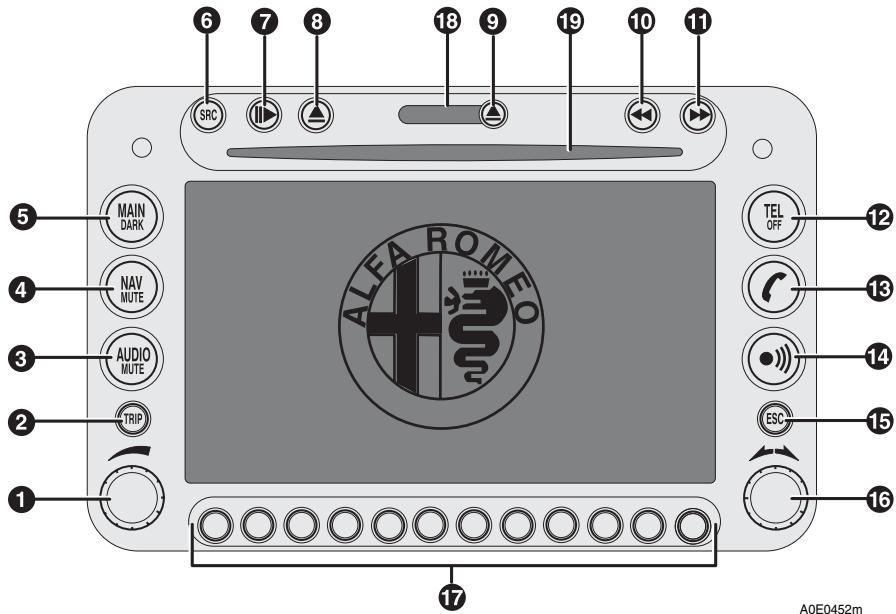
Multifunction information display

The system uses a graphic 6.5" 16/9 LCD 256-colour TFT display with a resolution of 400 x 240 pixels.

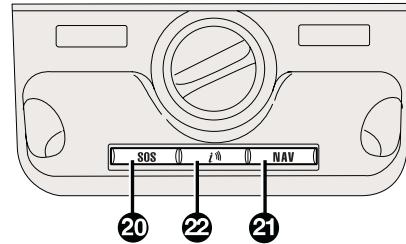
The display brightness can be changed depending on the environment conditions and the driver's requirements, storing two settings, day and night, which are automatically set to correspond with the turning on/off of the external lights, if this has been set in SETUP menu.

CONTROLS

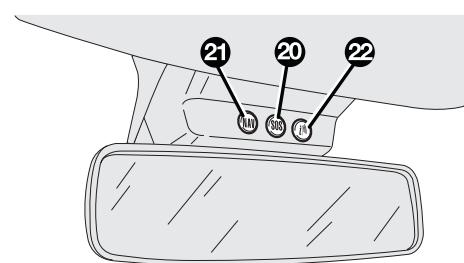
RADIO-NAVIGATION SYSTEM



A0E0450m



A0E0451m



A0E0452m

fig. 1

The reference numbers identifying each key, as shown in the figure, are used in the manual to describe the relevant functions. You are therefore recommended to keep this figure within reach when learning how to use the different functions of the radio-navigation system.

The front panel of the radio-navigation system, as shown in **fig. 1**, features buttons and knobs that act also like buttons.

There are also three buttons (see previous page) located:

- for **Alfa 159**, on the central ceiling light;
- for **Alfa Brera** and **Alfa Spider**, above the driving mirror.

Certain controls have multiple functions which depend on the system operating conditions active.

Turning on the function chosen is in some cases controlled by the push duration (short or long), as shown in the following table:

Legend	Short push function (less than 1 second)	Prolonged pressure of the key (more than 2 seconds)
1	Knob for adjusting the volume level and for turning the system on/off (by pressing it).	—
2 - TRIP	TRIP computer mode on.	—
3 - AUDIO/MUTE	Audio mode on.	MUTE function for audio sources on/off.
4 - NAV/MUTE	Navigator mode on.	Activation/deactivation of the MUTE function for navigation information.
5 - MAIN/DARK	Main mode on.	Dark Mode: the display will be fully blacked out. It will be lit again by pressing the MAIN, TEL, SOS, NAV,  , TRIP, and  keys, or when a telephone call is received.
6 - SRC	Audio source selection: FM1/2/3/FMAST – LW / MW/AMAST – CD – CDC	—

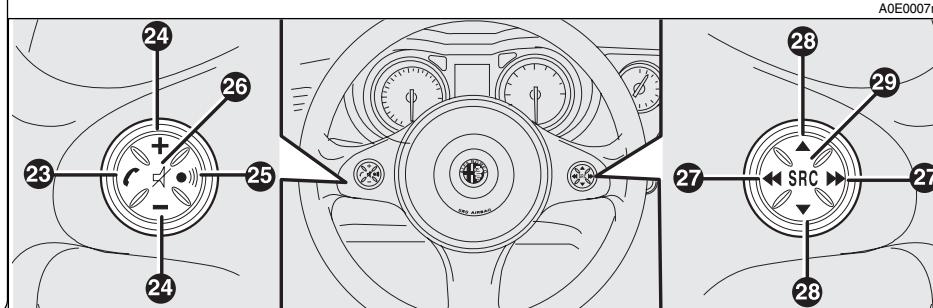
Legend	Short push function (less than 1 second)	Long push function (more than 2 seconds)
7 - II/▶	Play/stop for CD/CDC.	Pause for CD/CDC
8 - ▲	Eject navigation CD-ROM or audio CD.	—
9 - ▲	SIM CARD slot ejection key.	—
10 - ◀◀	<p>Radio mode: searching the first tunable radio station with frequency lower than the initial station.</p> <p>CD mode: selection of the previous track if the button is pressed within 3 seconds from the beginning of the track, otherwise the track will be played again from the beginning.</p> <p>MP3 mode: selection of the previous track if the button is pressed within 3 seconds from the beginning of the track, otherwise the track will be played again from the beginning.</p>	<p>Radio mode: activation of the scan function with frequency lower than the initial one. Station scanning will stop to the first audible station.</p> <p>CD mode: selection of the previous track if the button is pressed within 3 seconds from the beginning of the track, otherwise the track will be played again from the beginning.</p> <p>MP3 mode: skip to previous 10 tracks or previous folder.</p>
11 - ▶▶	<p>Radio mode: searching the first tunable radio station with frequency higher than the initial station.</p> <p>CD mode: select next track.</p> <p>MP3 mode: select next track.</p>	<p>Radio mode: activation of the scan function with frequency higher than the initial one. Station scanning will stop to the first audible station.</p> <p>CD mode: select next track.</p> <p>MP3 mode: skip to next 10 tracks or next folder.</p>
12 - TEL/OFF	Telephone mode on.	Telephone on/off.
13 - ↲	<ul style="list-style-type: none"> - Forward the phone call set. - Re-dial last called number and start call by pressing the button within 5 seconds. - Accept the incoming call. 	<ul style="list-style-type: none"> - Refuse the incoming call. - Stop current conversation.

Legend	Short push function (less than 1 second)	Long push function (more than 2 seconds)
14 - •))	"Voice Recognition" function on/off.	"Voice Memo" function on. This function can be stopped by a further short or long push.
15 - ESC	This button lets the user get out from a selection list or jump from a submenu to an upper menu.	—
16	Knob for selecting the required function, press the knob to confirm selection.	—
17 - KEYPAD	Multiple function buttons whose function depends on the active mode. Their function is always identified by the buttons displayed on the screen. In some case the button area covers some adjacent buttons: the function of all these buttons will be the same.	—
18	Slot for SIM CARD.	—
19	Slot for CD.	—
20 - SOS (where provided)	SOS mode on (assistance services and functions).	—
21 - NAV (where provided)	Navigation information repetition. With navigation active and in "NAV" mode, activation of the navigation voice message repetition function	—
22 - i)) (where provided)	Infomobility services activation.	—

STEERING WHEEL CONTROLS

The main functions of the radio-navigation system are repeated on the steering wheel, which facilitates control; as shown in **fig. 2** 10 buttons are present. Turning on the function chosen is in some cases controlled by the length of time the button is pressed (brief or prolonged press), as shown in the following table:

Legend	Short push function (less than 2 seconds)	Long push function (more than 2 seconds)
23 - ↞	- To start set call. - To dial the last called number and to start the call by pressing the button within 5 seconds. - To accept the incoming call.	- To refuse the incoming call. - To stop dialling new phone number - To stop current call
24 - +/-	To turn volume up or down.	To turn volume up or down continuously
25 - •))	"Voice recognition" on/off.	"Voice Memo" function on. This function can be stopped by a further short or long push.
26 - ✕	MUTE function for audio sources on/off.	—
27 - ▲ ▼ ▶/▶▶	"SCAN" buttons: in Radio Mode: to tune previous or next radio station; in CD/MP3/CDC Mode: to select previous or next track.	—
28 - ▲/▼	Radio mode: tuning to previous or next stored station. CD Changer mode: skip to previous or next CD Changer CD. MP3 mode: skip to previous or next folder.	—
29 - SRC	Audio source selection: FM1/2/3/FMAST – LW/ MW/AMAST – CD – CDC.	—



GENERAL INFORMATION

IMPORTANT NOTES FOR USE AND ROAD SAFETY

The radio-navigation system makes it possible to easily control the main functions of the car.

To avoid creating dangerous situations for yourself and others in use of the system, please pay attention to the following points:

- the radio-navigation system must be used keeping full control of the car; in the case of doubt in the use of the functions, it is necessary to stop before performing the various operations;

- use of the cell phone is prohibited near explosive substances.

The radionavigation system allows you to reach your destination, indicating each route change stored on the navigation CD-ROM. In fact, in calculating the route, the system takes into account of all the information stored concerning the roads, advising the best route. However it cannot take account of the traffic, sudden interruptions or any other inconvenience.

In carrying out any manoeuvre it is always necessary to follow the rules of the road, regardless of the advice given by the navigation system. If you leave the suggested route, the navigation system will calculate a new one and suggest it to you.



WARNING

The radio-navigation system helps the driver while driving by suggesting, verbally and graphically, the best route to be followed to reach the preset destination. The suggestions given by the radio-navigation system do not exempt the driver from full responsibility due to driving behaviour and compliance with road and other traffic regulations. The responsibility for road safety always and anyway lies with the car's driver.

SYSTEM POWER ON

The radio-navigation system can be switched on according to two different modes:

automatic switching on: with key fitted into ignition switch;

manual switching on: by button **1**-fig. 1;

AUTOMATIC SWITCHING ON

Fitting the key into the ignition switch will turn the radio-radio-navigation system on automatically, thus activating or making available all the functions described in this manual.

MANUAL SWITCHING ON

With the key removed, press button **1**-fig. 1, to switch the radio-navigation system on and thus making available the following modules:

- MAIN
- AUDIO
- NAV
- TEL
- SOS
- SERV (**Infomobility** ).

IMPORTANT With manual switch-on, the TRIP and SETUP functional modules can be accessed with a few restrictions. These limitations are normal when switching the system on by button **1**-fig. 1, since with engine off (key removed from ignition switch) the car data transmission devices are not operating.

Fitting the key into the ignition switch will make all radio-navigation system functions available (see section On-board Computer TRIP and section SETUP).

SYSTEM POWER OFF

The radio-navigation system can be switched off according to two different modes:

– **deactivation dependent** on ignition key

– **deactivation independent** of ignition key

The power-off mode can be chosen in the SETUP module (see section SETUP / Power OFF).

Deactivation dependent on ignition key

With this mode active, the radio-navigation system can be turned off by removing the key from the ignition switch or by pressing button **1-fig. 1**.

The display will show the message "PLEASE WAIT WHILE SYSTEM TURNS OFF".

IMPORTANT Deactivation with key removed is delayed and will take place after 20 minutes if the system has a destination set or a phone call is in progress.

Deactivation independent of ignition key

With this mode active, the radio-navigation system can be switched off by pressing button **1-fig. 1** or automatically after 20 minutes.

MAIN

The MAIN mode is activated by pushing the "MAIN" button **5-fig. 1** on the front panel. This mode allows to display the four main system modules **fig. 3 - 4**:

- AUDIO
- TELEPHONE
- NAVIGATION
- MAP
- TRIP
- SETUP



fig. 3



fig. 4

The top status bar shows current time, GPS field strength, date (format dd, mm, yyyy), external temperature and current active mode.

IMPORTANT With the key removed from the ignition switch, information concerning time, date, external temperature and Trip data is not available since in this condition the car data transmission devices are not operating.

Turn the right hand knob **16-fig 1** to select the required mode and press the knob to call up the menu.

When the system is turned off, the last active module is saved. When the system is turned back on, the MAIN screen is displayed with the last active module selected.

For other display setting options, refer to the VIDEO paragraph in the "SETUP" chapter.

PROTECTION AGAINST THEFT

Power-on authentication procedure

The radio-navigation system is protected against theft and unauthorised installations by means of an "authentication procedure".

This kind of verification involves Body Computer Node (by means of messages exchanged on car network) and is performed at every power-on.

The process will not be actuated if the radio navigation system is turned on by means of key **1-fig.1**. In this case, the radio navigation system will operate normally, without carrying out the authentication procedure.

With the key fitted into the ignition switch, if authentication fails the user is asked to enter the 4-digit "Master Code" to allow access to the standard functions.

The Master code is unique for each navigation system, it is stored in its memory and can not be reset.

To enter the code, access is made possible to a screen **fig. 5** which acts in the same way as the screen for the telephone PIN entry request.

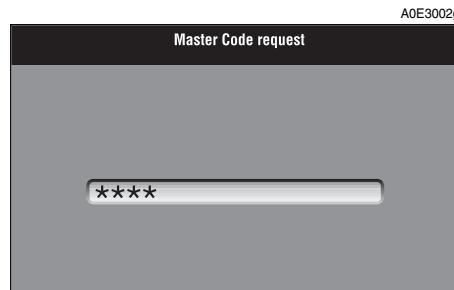


fig. 5

Only the code entry numeric keys, key **1**-**fig. 1** and a few audio control keys will be active.

After the code is entered, a second panel notices the user that the authentication procedure is in progress, **fig. 6**.

In case the correct code is provided, the system is fully enabled. On the contrary, if a wrong code is entered, screen is cleared and previous box is shown again with the following string:

"Incorrect code entered. Enter master code or turn off system with pushbutton **1**-**fig. 1**.

There is no upper limit to the number of wrong codes that can be entered.

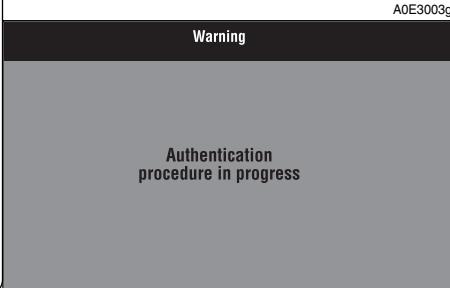


fig. 6

AUDIO

The audio system is turned on by pressing briefly the "AUDIO" key **3-fig. 1** which displays the main functions of the radio **fig. 7**.

Keeping button **3-fig. 1**, pressed for over 2 seconds, with the audio system on and any operating mode active, the "MUTE" mode is switched on: this way the audio source is muted and the display will show "MUTE". The "MUTE" function can be switched off either by pressing key **3-fig. 1** for more than 2 seconds or changing the sound volume.

Through the audio system it is possible to control:

- RDS radio with FM/AM reception;
- Compact Disc player;
- CD-Changer (if installed);
- equalizer;
- MP3 player.

SCREEN OPTIONS AND FUNCTIONS

Pressing repeatedly the "SRC" key **6-fig. 1** the available audio sources are displayed cyclically:

- Radio (FM1, FM2, FM3, FMAST, LW, MW, AMAST)
- CD (if the CD is inserted)
- CD-Changer (if installed).

The audio source is automatically changed in one of the following cases:

- broadcasting of traffic information, if the TA function is on and an enabled station is tuned (TP)
- forwarding a phone call
- receiving a phone call
- voice recognition function activation.



fig. 7

RADIO MODE

Choosing the radio source will display the following functions **fig. 8**:

- Frequency
- Autostore (active only on the FMAST and AMAST bands)
- Preset scan
- Band scan
- Loc/DX
- Radio setup
- Audio setup.

The radio is always set to receive stations in the RDS (Radio Data System) mode.

The main screen is as follows **fig. 8**:

- the top section on the left of the screen describes the radio status:
- active frequency band (e.g. FM1);
- tuned station frequency (e.g. 106.60);
- frequency measure unit (MHz for FM band and kHz for AM band);
- RDS channel name (if available) or current station frequency;
- channel information (stereo signal, TP, EON, etc..).

At the screen bottom is given the list of stored stations (in the current band) and the numbers corresponding to storage keys.

There are 6 available memories for each band.



fig. 8

At the screen bottom there are the functions that can be activated by pressing the corresponding multifunction keys **17-fig. 1**, on the front panel:

- **FM** activates, on successive pushes FM1, FM2, FM3, FMAST, FM1... radio bands in a loop.
- **AM** activates, on successive pushes MW, LW, AMAST, MW... radio bands in a loop
- **CD** activates CD
- **CDC** activates CD Changer
- **1-6** buttons (short push), select a pre-stored station
- **1-6** buttons (long push), store the currently active station at the selected button.
- **AF** alternative frequency search on/off
- **TA** traffic information on/off.

Tuning

This function seeks stations in the chosen band.

Proceed as follows:

- select the frequency band (FM1, FM2, FM3, MW, LW) pressing the "SRC" key repeatedly **6-fig. 1**;
- press key "**<<**" **10-fig. 1** or "**>>**" **11-fig. 1** to start the search for tuning the next or previous station that can be received.

If the "TA" function (traffic info) is on, the tuner will only seek stations that could broadcast traffic bulletins (TP symbol).

If the "PTY" function is on, the tuner only seeks stations with the selected PTY program (see paragraph "PTY-PROG TYPE function").

Manual station storage

The station being heard can be stored in the range chosen with keypad buttons **17-fig. 1** numbered from "1" to "6" at the bottom of the main screen.

Keep one of these keys pressed until the display shows the number of the key with which the station has been stored; a confirmation beep will indicate that the station has been stored.

Listening to stored stations

Proceed as follows:

- choose the required frequency band (FM1, FM2, FM3, FMAST, LW, MW or AMAST) pressing repeatedly the "SRC" key **6-fig. 1**;

- press briefly one of the station storage keys on the keypad **17-fig. 1** numbered from "**1**" to "**6**" at the bottom of the main screen.

In the FM1, FM2, FM3 and FMAST bands, if reception is poor and the "AF-Alt. Freq." alternative frequency seek function is on, a station with the strongest signal that is broadcasting the same programme is automatically sought.

TA - TRAFFIC INFORMATION

Certain stations in the FM band (FM1, FM2, FM3 and FMAST) are also enabled to broadcast information about the conditions of the traffic. In this case the displays shows the abbreviation "TP".

To turn on/off the TA function (Traffic Announcement) for traffic bulletins, press briefly one of the keypad keys **17-fig. 1** set near the icon key TA.

When the TA function is on, the display shows "TA" and the wording on the icon key is darkened.

The listening conditions and information shown on the display may be the following:

- TA and TP: you are tuned to a station that broadcasts traffic information and the traffic information function is on
 - TP: you are tuned to a station that broadcasts traffic information but the traffic information function is off
 - TA: the traffic information function is on but you are tuned to a station that does not broadcast traffic information
 - TA and TP not shown on the display: you are tuned to a station that does not broadcast traffic information and the traffic information function is off.
- With the TA function on it is possible:
- 1) to receive traffic info although the CD/CDC/MP3 player is on and if the tuned station is enabled to TA broadcasting;
 - 2) to receive traffic information at a pre-set minimum level also with the radio volume down completely.

The operations to be carried out for each of the above two conditions are listed below.

1) If you wish to receive traffic information while listening to a CD, before inserting the CD, tune to a station enabled to broadcast traffic information (TP) and turn the TA function on. If, while playing the CD, this station broadcasts traffic information, CD playing will be temporarily stopped and resumed automatically at the end of the message.

If the CD player is already operating and, at the same time, you wish to receive traffic information, actuating the TA function will cause the radio to tune to the latest station listened to on the FM band (if the station controls the "TP"); otherwise, automatic search will be started to find a station that controls the "TP".

2) To receive traffic information though not listening to the radio:

- turn on the TA function, so that the display shows the abbreviation "TA";
- tune to a station enabled to broadcast traffic information so that "TP" is shown on the display;

This way, if that station broadcasts traffic information, this will be heard at a minimum predefined volume.

A telephone call has higher priority than traffic message.

IMPORTANT In certain countries, radio stations exist which though the TP function is active (the display shows "TP"), do not broadcast traffic information.

If the radio is operating on the AM band, selecting the FM band will cause the latest listened station to be tuned. If the selected station does not send traffic information (the "TP" writing does not appear on the display), automatic search will be started to seek an enabled station to which the radio will tune.

If the volume is changed during a traffic bulletin the value is not shown on the display and the new value is kept only for the bulletin in progress.

AF - ALTERNATIVE FREQUENCIES

Within the RDS system the radio can work in two different modes:

- AF ON: alternative frequency search on;
- AF OFF: alternative frequency search off.

When the signal of the RDS station tuned weakens, the following two cases may occur:

– With AF ON the RDS system activates automatic tuning of the optimum frequency of the station chosen, with the stations enabled, therefore the radio is automatically tuned to the station with the strongest signal that is broadcasting the same programme. During the journey it will thus be possible to continue listening to the station chosen without having to change the frequency when changing area. Of course, the station being listened to must be receivable in the area the car is crossing.

– With AF OFF the radio will not tune the strongest station automatically and it will have to be found manually using the tuner buttons.

To turn on/off this function, press briefly one of the keypad keys **17-fig. 1** set near the icon key AF.

When the AF function is on, the display shows "AF" and the wording on the icon key is darkened.

The RDS channel name (if available) is still shown on the display.

"FREQUENCY" FUNCTION

The "Frequency" function enables to tune the required radio station by turning knob **16-fig. 1** clockwise or counter-clockwise.

To turn the "Frequency" function on, turn knob **16-fig. 1** to select the corresponding icon key and then press it.

To turn this function off, press again knob **16-fig. 1**.

"Autostore" FUNCTION (AUTOMATIC STATION STORAGE)

After selecting the AMAST or FMAST band, to turn on the Autostore function (automatic station storage), select the "AUTOSTORE" icon with the knob **16-fig. 1** then press it to confirm.

When this function is on, the radio automatically stores the stations with the strongest signal:

- 6 FM stations in the FMAST band or
- 6 AM stations in the AMAST band.

During automatic storage the display shows "Autostore".

Stations will be stored automatically on the preset keys from "**1**" to "**6**" of the keypad **17-fig. 1**. After storage, the radio tunes automatically to the first station of the FMAST band, corresponding to the frequency stored on the preset key "**1**" of the keypad **17-fig. 1**.

Every station is stored only once, except in the case of regional programmes, which in certain cases might be stored twice.

The behaviour of the set during Autostore is as follows:

- pressing one of the preset keys from "**1**" to "**6**" the automatic storage process is interrupted and the station stored with that key is tuned

- changing the audio source (Radio, CD, CD-Changer) during the automatic storage process, the Autostore function is interrupted.

IMPORTANT It may occur that the Autostore function is unable to find 6 stations with a strong signal; in this case only the stations found are stored.

IMPORTANT Activating the "Autostore" function cancels the stations stored previously in the FMAST or AMAST band.

"Preset Scan" FUNCTION

The "Preset scan" function activates stored station scanning in the chosen frequency band. Each stored station will be played for about 10 seconds.

To turn on the "Preset scan" function, select the "Preset scan" icon with the knob **16-fig. 1** and then press it to confirm.

During stations scan, the scanned one is highlighted in the stored stations window and corresponding low-bar button too. During operations the string "Preset Scan" is displayed in the main window.

Scanning will be interrupted by pressing knob **16-fig. 1** again (by taking care to be positioned onto the "Preset Scan" graphic key), or by selecting a station previously memorized.

"Band Scan" FUNCTION

The "Band scan" function activates station scanning in the chosen frequency band. Each station frequency will be displayed for about 10 seconds.

To turn the "Band scan" function on, select the "Band scan" icon with the knob **16-fig. 1** then press it to confirm.

During scanning, the display will show "Band Scan".

Scanning will be interrupted by pressing knob **16-fig. 1** again (by taking care to be positioned onto the "Preset Scan" graphic key), or by selecting a station previously memorized.

LOC/DX

(tuner sensitivity adjustment)

With this function it is possible to change the sensitivity of automatic radio station searching. When low sensitivity "LOC" is set, only stations with excellent reception are sought; when high sensitivity "DX" is set, all the stations are sought. If you are in an area with a large number of broadcasters and you want the ones with the strongest signal, choose low sensitivity "LOC".

To choose between low or high tuner sensitivity, select the "LOC/DX" function with the knob **16-fig. 1** and then press it repeatedly. The abbreviation of the sensitivity chosen will be shown on the display:

- LOC = low sensitivity;
- DX = high sensitivity.

"Radio setup" FUNCTION

To turn on the "Radio Setup" function, select the "Radio Setup" icon with the knob **16-fig. 1** and press it to confirm. This function enables to go to next window to adjust radio settings. When in this window it is not possible to change the audio source. The following functions are displayed **fig. 9**:

- Mono/Stereo
- PTY-Prog. Type
- RDS
- Regional.

Choosing and confirming "OK", goes back to the previous screen storing the adjustments set. Pressing "ESC" **15-fig. 1** goes back to the previous screen resuming the settings stored previously.

Mono/Stereo

To pass from "Mono" to "Stereo" or vice versa, select "Mono/Stereo" by turning the knob **16-fig. 1** and press it to confirm. This function is only available on FM band.

When stereo reception is on the display shows "STEREO", when it is off the display shows "MONO".

When the signal of the station tuned is weak, to improve the sound quality, it is advisable to switch to "MONO".



fig. 9

"PTY-Prog. Type" FUNCTION (CHOOSING A TYPE OF PROGRAMME)

The PTY function (Program Type), when present, makes it possible to give priority to broadcasters transmitting programmes classified according to the type of PTY. PTY programmes may concern emergency announcements or various subjects (e.g. music, news). To access the list of PTY programmes, choose the "PTY-Prog.Type" icon with the knob **16-fig. 1**, then press it to confirm; the display will show the screen with the list of PTY programmes and the subject of the last station heard (e.g. "NEWS"). To scroll the list of PTY programmes, turn the knob **16-fig. 1**. To choose a type of programme, press the knob after choosing the type.

IMPORTANT The PTY function can only be turned on in the FM band.

The list of PTY programmes is the following:

- NONE
- NEWS
- AFFAIRS
- INFO
- SPORT
- EDUCATION
- DRAMA
- CULTURE
- SCIENCE
- VARIED
- POP
- ROCK
- EASY
- LIGHT
- CLASSIC
- OTHER
- WEATHER
- FINANCE
- CHILDREN
- SOCIAL
- RELIGION
- PHONE IN
- TRAVEL
- LEISURE
- JAZZ
- COUNTRY
- NATIONAL
- OLDIES
- FOLK
- DOCUMENTARY
- TEST
- ALARM.

To seek a station with this programme, follow the instructions given previously in the "**Tuning**" paragraph.

If no station is available with this type of programme, the station selected previously is returned.

To exit the screen with the list of PTY programmes, choose a type of programme, or "None" if you do not wish to set a programme type.

"RDS" FUNCTION

The "RDS" function enables/disables RDS string (showing the tuned station name) display.

To turn the "RDS" function on/off, select the "RDS" function turning the knob **16-fig. 1** and press it.

When the "RDS" function is on, the display shows the string with tuned station name and the symbol "✓" is shown near the corresponding icon.

Regional

This function enables or disables a RDS regional service.

To turn the "Regional" function on/off, select the "Regional" function by turning the knob **16-fig. 1** and then press it to confirm. This function is only available on FM band. The display shows

– "DISABLED"

or

– "ENABLED".

OK

Choosing and confirming "OK" with the knob **16-fig. 1**, goes back to the previous screen storing the adjustments set. Pressing "ESC" **15-fig. 1** goes back to the previous screen resuming the settings stored previously.

"Audio Setup" FUNCTION (AUDIO ADJUSTMENTS)

The audio parameters described in this paragraph can be activated and adjusted with all the audio sources (Radio, CD, CD-Changer).

Select the "Audio setup" function from the main menu of one of the audio sources by turning and pressing the knob **16-fig. 1**.

The adjustments available are **fig. 10**:

- Bass
- Treble
- Balance/Fader
- Loudness
- Equalizer
- Auto Vol. Cont.

Choosing and confirming "OK", goes back to the previous screen storing the adjustments set. Pressing "ESC" **15-fig. 1** goes back to the previous screen resuming the settings stored previously.

Bass (Bass adjustment)

Proceed as follows:

— select the "Bass" function by turning and pressing the knob **16-fig. 1**;

— turn the knob **16-fig. 1** right to increase the bass tones or left to reduce them.

At the end, press the knob **16-fig. 1** to confirm setting and continue with the other parameter settings.



fig. 10

Treble (Treble adjustment)

Proceed as follows:

- select the “Treble” function by turning and pressing the knob **16-fig. 1**;
- turn the knob **16-fig. 1** right to increase the treble tones or left to reduce them.

At the end, press the knob **16-fig. 1** to confirm setting and continue with the other parameter settings.

Balance/Fader

(sound distribution)

The “Balance/Fader” function shows a schematic representation of the position of the speakers in the car (left/right and front/rear). Sound distribution is represented by a red small square cursor.

To adjust sound distribution, proceed as follows **fig. 11**:

- choose the “Balance/Fader” function by turning and pressing the knob **16-fig. 1**; the display will show the screen in **fig. 11**.
- select the “Balance” function by turning the knob **16-fig. 1** and press it to confirm;
- turn the knob **16-fig. 1** to change the sound distribution in the passenger compartment between the right and left speakers (cursor moving along the horizontal axis), then press the knob **16-fig. 1** to confirm.

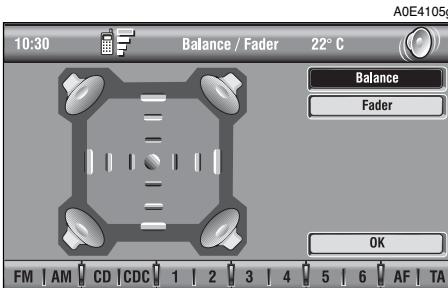


fig. 11

In the same way, choose and confirm the "Fader" function to change the sound distribution between the front and rear speakers (cursor moving along the vertical axis).

After adjustment, select "OK" with the knob **16-fig. 1** and press it to confirm the setting and to go back to the previous screen. If "ESC" **15-fig. 1** is pressed, you go back to the previous screen with the settings stored previously.

Loudness

The "Loudness" function improves the level of the sound when listening at low volume, increasing the bass and treble tones.

To turn the function on and off, select it with the knob **16-fig. 1** and then press to confirm. The function status (on or off) is shown on the display by wording "YES" or "NO".

WARNING In versions with amplifier (HI-FI BOSE versions), the Loudness function is disabled since it is controlled automatically by the system.

Equalizer

With this function it is possible to choose, among the predefined equalizer settings, the most appropriate one for the music being listened to.

The predefined settings are **fig. 12**:

- PRESET = standard setting
- ROCK = setting for Rock music
- JAZZ = setting for Jazz music
- CLASSIC = setting for classical music
- MANUAL = personalised settings.

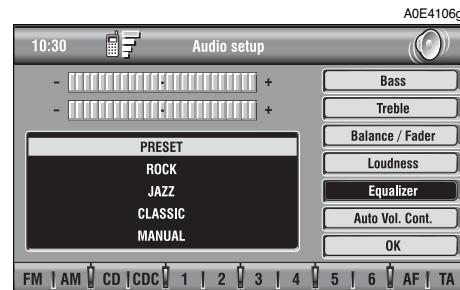


fig. 12

To activate the chosen setting, proceed as follows:

- choose and confirm the “Equalizer” function by turning and pressing the knob **16-fig. 1**;
- turn the knob **16-fig. 1** again to select the setting chosen, then press it to confirm.

The equalizer setting active is shown on the display.

Changing the treble and bass settings will cause the equalizer to be switched off; the window with the preset equalizer curves will disappear, whereas the “Equalizer” graphic key will remain ON.

Manual equalizer

To change the MANUAL setting and to adjust manually the 5 equalizer frequency bands, proceed as follows:

- select “Manual” with the knob **16-fig. 1** and press it to confirm; the display will show the screen in **fig. 13**;
- turn the knob **16-fig. 1** again to select the frequency band to be adjusted, then confirm by pressing it;
- adjust the band selected turning the knob **16-fig. 1**, then press it to confirm;
- after adjusting all the bands, choose and confirm “OK” by pressing the knob **16-fig. 1** to go back to the previous screen. If “ESC” **15-fig. 1** is pressed, you go back to the previous screen with the settings stored previously.

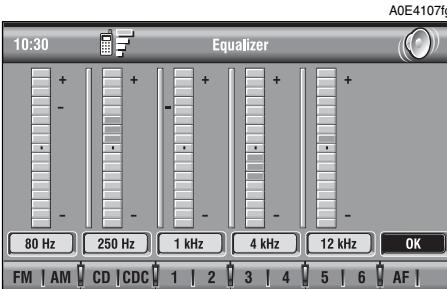


fig. 13

When any tailored equalizer setting has been set, the “MANUAL” writing will appear on the display, and both treble and bass cannot be set.

WARNING In versions with amplifier (HI-FI BOSE versions), the Equalizer function is disabled since it is controlled automatically by the system.

OK

Select "OK" by turning and pressing the knob **16-fig. 1** to enter and store the settings.

Auto Vol. Cont.

(volume changing with speed)

With the "Auto Vol. Cont." function it is possible to automatically adjust the radio volume level to the speed of the car, increasing it as the speed increases to maintain the correct ratio with the noise level in the passenger compartment.

The adjustment levels available are:

- OFF (function off)
- 1 (min)
- 2
- 3
- 4
- 5
- 6
- 7 (max).

To turn the function on/off, proceed as follows:

— select the "Reg. Autom. Vol." function by turning the knob **16-fig. 1** and press it to confirm;

— turn the knob **16-fig. 1** again to select a setting or turn the function off, then press the knob **16-fig. 1**.

The display shows the current status of the function.

OK

Select "OK" by turning and pressing the knob **16-fig. 1** to enter and store the settings.

CD MODE

IMPORTANT Never use 8 cm audio or MP3 CDs, even with the special adapter, since this format damages the system.

Choosing the CD source will display a screen with the following options **fig. 14**:

- Shuffle
- Prog
- Scan
- Compression
- CD setup
- Audio setup.



fig. 14

At the bottom of the screen are shown the functions that can be activated through the corresponding multifunction keys **17-fig. 1** on the front panel:

- **FM** allows audio source change through the following loop FM1, FM2, FM3, FMAST, FM1 . . .
- **AM** allows audio source change through the following loop MW, LW, AMAST, MW . . .
- **CD** activates CD
- **CDC** activates CD Changer
- **RPT** enables the Repeat function: Repeat one (repeat one track)/Repeat all (repeat all tracks)/No Repeat off (repeat function off)
- **TA** traffic information on/off.

The main screen shows also the following information **fig. 16**:

- audio source (CD);
- CD name, only if the CD when inserted has been "named";
- TA wording if the TA function (traffic announcement) is enabled;
- number of the track being played;
- current status of CD source (play, pause, stop);
- CD time information;
- list of the next 9 tracks to be played; if the number of the tracks to be played is higher than 9, symbol ">>" will be displayed at the end of the string; whereas if a track higher than 9 is selected, symbol "<<" will be displayed at the beginning of the string; with the Shuffle function on (for random playing sequence), the first 9 CD tracks of the random numeric sequence are displayed.

If the CD is not inserted, is illegible or is not an audio CD, the display will show the message "No CD" or "No CD-DA" and all CD/CDC icon keys are disabled.

Press respectively "◀◀" **10-fig. 1** or "▶▶" **11-fig. 1** to play the previous or the next track on the CD.

To stop playing a CD, long press on key "II/▶" **7-fig. 1**. To pause a CD, short press on button "II/▶" **7-fig. 1**. To resume playing a CD, repeat the short press on key "II/▶" **7-fig. 1**.

To eject the CD from the slot **19-fig. 1** press key **9-fig. 1**.

"Shuffle" FUNCTION (RANDOM PLAYING)

To turn the "Shuffle" function on/off, select it by turning the knob **16-fig. 1** and then press it to confirm.

When the Shuffle function is on, the display shows "SHUFFLE" and symbol "✓" is shown near the corresponding icon.

With this function on, the CD tracks are played in random sequence. To turn off this function, press knob **16-fig. 1** again.

"Prog" FUNCTION

To turn the "Prog" function on/off, rotate knob **16-fig. 1** and then press it after selecting the function. This function can only be selected with CD or CDC at STOP.

This function enables or disables playback of the previously user programmed track list (see "CD setup" functions).

"Prog" icon key is disabled if no programmed list has been entered.

When list has been programmed and programmed list playing has been chosen, symbol "✓" is shown near the corresponding icon.

"Scan" FUNCTION (BRIEF PLAYBACK)

The "Scan" function is turned on/off selecting the relevant icon key with the knob **16-fig. 1** and pressing it.

When this function is on, all the CD tracks are played for about 10 seconds in the actual sequence on the CD.

Press the knob **16-fig. 1** again to turn the function off.

"Compression" FUNCTION

This function activates dynamic sound compression when playing a CD in the car.

To turn this function on/off, select the "Compression" icon with the knob **16-fig. 1** and press it.

When the "Compression" function is on, symbol "✓" is shown near the corresponding icon.

"CD setup" FUNCTION

Select the "CD setup" icon with the knob **16-fig. 1** and press it to access the CD setup menu **fig. 17**:

- Time mode
- Prog CD
- CD name
- OK.

Time mode

The "Time mode" function defines time information about the CD shown on the display:

- TRACK ELAPSED TIME (time elapsed from start of track)
- TOTAL ELAPSED TIME (total time elapsed from start of CD)
- TOTAL REMAINING TIME (total remaining time to the end of CD)

To choose an option, select "OK" with the knob **16-fig. 1** and press it.

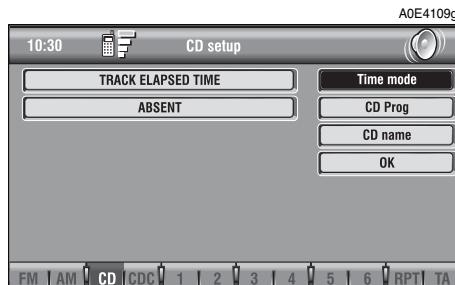


fig. 17

CD Prog

Select the “CD Prog” icon with the knob **16-fig. 1** and press it **16-fig. 1** to access the CD Prog function menu **fig. 18**:

- Select
- Delete
- Delete all
- OK.

While playing a CD this icon key is disabled, regardless of the “Prog” function status (on/off); the icon key will return active when you stop the CD.



fig. 18

Select

“Select” icon enables to define CD track playing sequence. To turn the function on, select the icon rotating the knob **16-fig. 1** and pressing it; this way access to numeric sequence box is provided. Turn the knob **16-fig. 1** to select the required number corresponding to the first track of the CD you want to listen to, then press it **16-fig. 1** to confirm. Proceed in the same way to programme the sequence of the other tracks. Press “ESC” **15-fig. 1** to quit.

To store the chosen sequence, select “OK” with the knob **16-fig. 1** and then press it.

Delete

“Delete” icon enables to clear off the last stored track.

This key is disabled if the sequence is empty.

To turn the function on, select “Delete” icon rotating the knob **16-fig. 1** and pressing it.

Delete all

“Delete all” icon enables to delete the entire track list stored.

This key is disabled if the sequence is empty.

To turn the function on, select “Delete all” icon rotating the knob **16-fig. 1** and pressing it.

OK

To confirm the chosen option, select “OK” with the knob **16-fig. 1** and then press it.

During the operations available in the “CD Prog” function, buttons **10**, **11** and **7-fig. 1** are disabled.

CD name

This function can be selected only if a Compact Disc is inserted. If the CD already has a name, this will be shown on the display.

"CD name" function allows to name max. 10 CDs with 20 characters max.

Selecting the "CD name" function by rotating the knob **16-fig. 1** and pressing it goes to next menu **fig. 19**:

- Name
- CD Prog
- Delete
- Delete name
- OK.

Name

Select "Name" icon with the knob **16-fig. 1** and press it to confirm, in this way you go to a screen showing an alphanumeric sequence **fig. 20** to be used to name the CD inserted. Proceed as follows:

- select the first letter rotating the knob **16-fig. 1** and press it to confirm;
- proceed in the same way for the other letters until completing the name;
- select and press "OK" to confirm the CD name.

After confirming the CD name, the previous screen is shown automatically.

The CD name is automatically associated to CD track number and total time duration.

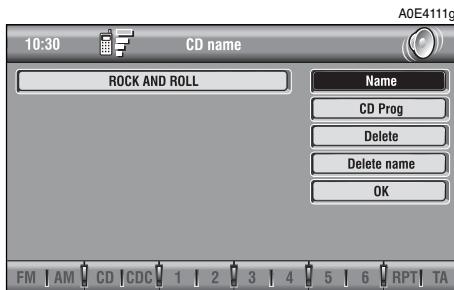


fig. 19

CD Prog

Selecting "CD Prog" icon with the knob **16-fig. 1** and pressing it gives access to a menu similar to the one shown in **fig. 18** with the option to associate a name to a pre-set track sequence.

Proceed as described before.

While playing a CD this icon key is disabled, regardless of the "Prog" function status (on/off); the icon key will return active when you stop the CD.



fig. 20

Delete

"Delete" icon enables to clear the CD name.

To turn the function on, select "Delete" icon rotating the knob **16-fig. 1** and pressing it.

Delete name

"Delete name" icon enables to delete a previously stored sequence name.

To turn the function on, select "Delete name" icon rotating the knob **16-fig. 1** and pressing it.

OK

To confirm your choices, select the "OK" icon with the knob **16-fig. 1** and press it; the name and the associated sequence are stored.

IMPORTANT In case of buffer full, a warning message "WARNING, CD DIRECTORY FULL" will be displayed to point out the problem. The user shall have to delete some previously stored CD names.

**"Audio Setup" FUNCTION
(AUDIO ADJUSTMENTS)**

To access the audio setup menu while listening to a CD, select the "Audio setup" icon with the knob **16-fig. 1** and press it to confirm.

For the description of the different functions available in the menu, see the corresponding paragraph of the "Radio Mode" chapter.

**CD-CHANGER
MODE (if installed)**

IMPORTANT Never use 8 cm audio or MP3 CDs, even with the special adapter, since this format damages the system.

The CD-Changer cannot play CDs in the MP3 format.

If the multiple CD player is installed, selecting CDC source (CD-Changer), the following functions are displayed **fig. 21**:

- Shuffle
- Prog
- Scan
- Compression
- CDC setup
- Audio setup.



fig. 21

The radio-navigation system can control 10 CDs.

At the bottom of the screen are shown the functions that can be activated by pressing the corresponding multifunction keys **17-fig. 1:**

- **FM** allows audio source change through the following loop FM1, FM2, FM3, FMAST, FM1....

- **AM** allows audio source change through the following loop LW, MW, AMAST, MW....

- **CD** activates CD

- **CDC** active for the CD Changer: press key “**II/▶**”, to start reproduction as shown in **fig. 21a**

— **1 ... 10** selects the corresponding CD in the multiple player (only the keys corresponding to the actual CDs inside the player are active)

- >> o << enables to display, like icon keys, the next or previous 5 CDS contained in the CD Changer.

- **RPT** enables the Repeat function: Repeat one (repeat one track) / Repeat CD (repeat all CD tracks) / Repeat all (repeat all CD tracks contained in the CD-Changer) / No Repeat (repeat function off).



fig. 21a

The main screen shows also the following information **fig. 22:**

- number of the track being played;
- CD name, only if the CD when inserted has been named;
- TA wording if the TA-Traff. Ann function (traffic announcement) is enabled;
- number of the track being played;
- current status of CDC source (play, pause, stop);
- CD time information;

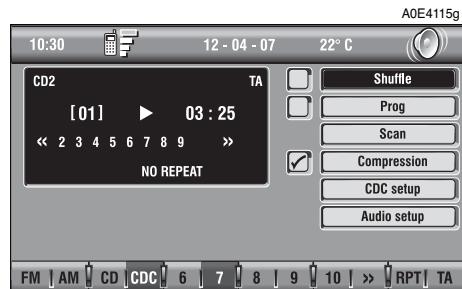


fig. 22

– the numbers of the next 9 tracks that will be played and symbol “>>” if there are more than 9 tracks; with the Shuffle function on (for random playing sequence), the first 10 CD tracks of the random numeric sequence are displayed.

Selecting the CD-Changer, playback starts from the last CD heard previously or from the first CD following the last one being heard (if this one was removed) present in the loader. To change the current CD use the keypad buttons **17-fig. 1** corresponding to 1...5. To hear the previous or next track of the current CD respectively press buttons “◀◀” **10-fig. 1** or “▶▶” **11-fig. 1**.

If the selected CD is not in the loader, the relevant button is disabled.

To stop the CD, press briefly button “II/▶” **7-fig. 1**. To restart CD playing, press briefly again button “II/▶”

7-fig. 1. To pause the CD player press continuously button “II/▶” **7-fig. 1**; press it briefly to resume playing exactly from the point where it was interrupted.

— After “CD stop” or “CD pause”, if the CD played by the CD-Changer has been removed (also temporary), playing will restart from first track of default CD (*).

— After “CD stop” or “CD pause”, no CD will start playing and the string “NO CD” will be displayed if all the CDs have been removed from the CD-Changer.

(*) The first available CD (increasing numeric order) starting from the previously played one is considered as default CD.

“Shuffle” FUNCTION (RANDOM PLAYING)

To turn the “Shuffle” function on/off, select it and then turn and press the knob **16-fig. 1**.

For the description of this function refer to the relevant paragraph in section “CD Mode”.

“Prog” FUNCTION

To turn the “Prog” function on/off, rotate the knob **16-fig. 1** and then press it after selecting the function.

This function enables or disables playback of user’s previously programmed track list (see “CDC setup” functions).

“Prog” icon key is disabled if no programmed list has been entered (see “CDC SETUP” functions).

When list has been programmed and programmed list playing has been chosen, symbol “✓” is shown near the corresponding icon.

"Scan" FUNCTION (BRIEF PLAYBACK)

The "Scan" function is turned on/off selecting the relevant icon key with the knob **16-fig. 1** and pressing it.

When this function is on, all the CD tracks are played for about 10 seconds in the actual sequence on the CD.

To turn the function off, select the "Scan" icon key and press the knob **16-fig. 1** again.

"Compression" FUNCTION

This function activates dynamic sound compression when playing a CD in the car.

To turn this function on/off, select the "Compression" icon key with the knob **16-fig. 1** and press it.

When the "Compression" function is on, symbol "✓" is shown near the corresponding icon.

"CDC setup" FUNCTION

Select the "CDC setup" icon with the knob **16-fig. 1** and press it to access the CDC setup menu **fig. 23**:

- CD Prog
- CD name
- OK.



fig. 23

Prog CD

Select the "Prog CD" icon with the knob **16-fig. 1** and press it to access the CDC Programming function menu **fig. 24**:

- Select
- Delete
- Delete all
- OK.

While playing a CD this icon key is disabled, regardless of the "Prog" function status (on/off); the icon key will return active when you stop the CD.

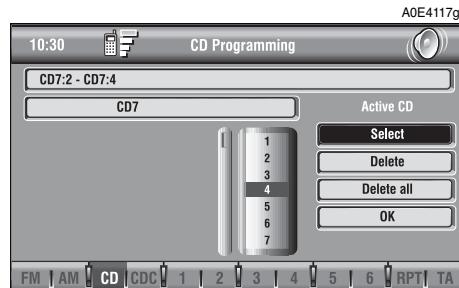


fig. 24

Select

"Select" icon enables to define CD track playing sequence. To turn the function on, select the icon rotating the knob **16-fig. 1** and press it; this way access to numeric sequence box is provided. Turn the knob **16-fig. 1** to select the required number corresponding to the first track of the CD you want to listen to, then press knob **16-fig. 1** to confirm. Proceed in the same way to programme the sequence of the other tracks.

Press "ESC" **15-fig. 1** to quit.

To store the chosen sequence, select "OK" with the knob **16-fig. 1** and press it.

Delete

"Delete" icon enables to clear off the last stored track.

This key is disabled if the sequence is empty.

To turn the function on, select "Delete" icon rotating the knob **16-fig. 1** and then press it.

Delete all

"Delete all" icon enables to delete the entire track list stored.

This key is disabled if the sequence is empty.

To turn the function on, select "Delete all" icon rotating the knob **16-fig. 1** and then press it.

OK

To confirm the chosen option, select "OK" with the knob **16-fig. 1** and press it.

During the operations available in the "CDC Prog" function, buttons **10**, **11** and **7-fig. 1** are disabled.

When removing the Compact Disc from the multiple player or changing the CD sequence, a new playback sequence shall be programmed.

CD name

This function can be selected only if a Compact Disc is inserted in the multiple player.

If the CD already has a name, this will be shown on the display.

"CD name" function allows to name max. 10 CDs with 20 characters max.

For the description of the different functions, refer to "CD Mode".

"Audio Setup" FUNCTION (AUDIO ADJUSTMENTS)

To access the audio setup menu while listening to a CD, select the "Audio setup" icon rotating the knob **16-fig. 1** and press it to confirm.

For the description of the different functions available in the menu, see the corresponding paragraph of the "RADIO Mode" chapter.

MP3 MODE

The radio-navigation system can recognize the type of CD inserted. During the reading procedure to recognize the disc the display shows "Reading CD...". If the inserted CD is a MP3 one, a specific management is activated.

IMPORTANT Never use 8 cm audio or MP3 CDs, even with the special adapter, since this format damages the system.

IMPORTANT The radio-navigation system builds MP3 CD folder-organized structure of files; folders are organized in sequence with their own MP3 tracks (up to max. four levels of folders/subdirectories).

Folder and file name length shall not exceed 31 characters. Characters: blank, ' (apostrophe), (and) (open and closed brackets) are not admitted in MP3 track names. When creating MP3 CD you must not use these characters to name files otherwise the radio-navigation system will not be able to play it.

Since a full MP3 CD could hypothetically include many MP3 files, a 999 music pieces limit is imposed by the system. If the user inserts a MP3 CD which has more than 999 tracks (files) in it, then only the first 999 files will be considered and a 7-second warning will be displayed **fig. 25** "Warning: the system will manage only the first 999 tracks on the MP3 CD"; This warning will be closed after set time or upon pressing the knob **16-fig. 1** or "ESC" **15-fig. 1**.

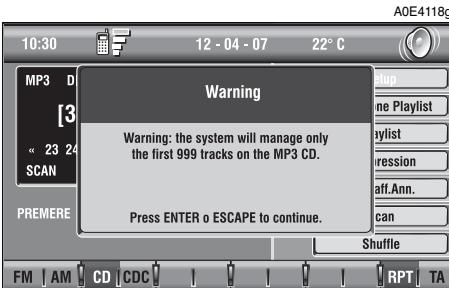


fig. 25

Only one Playlist for each MP3 CD can be managed. Trying to create a second playlist on the same CD you will overwrite the existent one.

The radio-navigation system allows storing a max. number of 10 playlists; when reaching the last one admitted (when trying to insert the 11th MP3 CD) the oldest playlist will be overwritten; the display will show the following message: "10 Playlists have already been stored. Do you want to overwrite the oldest?".

When a MP3 CD is inserted, the radio-navigation system check the presence of a stored playlist coupled with the CD.

If one of the 10 "known" CDs is detected, playing starts automatically according to the preset sequence. If no playlist coupled to the inserted MP3 CD is found, then playing starts from the first file on the CD.

If recorded MP3 CD was not sampled at right frequency, playback is immediately stopped and the display shows the following message: "The current track was sampled with a format which is not compatible with the reader. It cannot be read by the system" **fig. 26**.

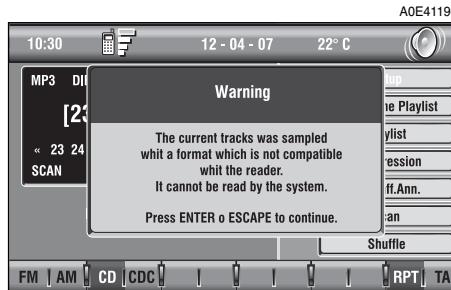


fig. 26

IMPORTANT Technical data and operating conditions for MP3 files:

- sampling frequencies are: 44.1 kHz, stereo (96 to 320 kbit/s) — 22.05 kHz, mono or stereo (32 to 80 kbit/s);
- it is possible to play variable bit-rate tracks (files);
- compatibility with multi-session CDs, in this case only the first CD session will be read;
- reading compatibility with CD-RW;
- **MP3 CDs shall have ISO 9660 format;**
- incompatibility with ID3TAG-2;
- incompatibility with packet writing CDs (DirectCD™ or INCd™);
- files in WMA™ or Atrac3™ renamed as .mp3, cannot be played.

MAIN SCREEN OPTIONS AND FUNCTIONS

The main screen contains the following functions **fig. 27**:

- Direct selection
- Define Playlist
- Playlist
- Compression
- Scan
- Shuffle
- Audio setup.

At the bottom of the screen are shown the functions that can be activated by pressing the corresponding multifunction keys **17-fig. 1** on the navigation system:

- **FM** allows audio source change through the following loop FM1, FM2, FM3, FMAST, FM1 . . .
- **AM** allows audio source change through the following loop LW, MW, AMAST, MW . . .
- **CD** activates CD
- **CDC** activates CD Changer
- **RPT** enables the Repeat function: Repeat one (repeat one track)/Repeat all (repeat all tracks)/Repeat off (repeat function off)
- **TA** traffic information on/off.

The main screen shows also the following information:

- audio source (MP3);
- name of the file or piece of music (if any);



fig. 27

- author;
- SHUFFLE, REPEAT . . . according to the active function;
- played track number;
- current status of MP3 CD source (play, pause, stop);
- playback time info;
- list of available tracks.

To stop the MP3 CD, press briefly “**II/▶**” **7-fig. 1**. To restart playing, press briefly again “**II/▶**” **7-fig. 1**. To pause the MP3 CD, press continuously “**II/▶**” **7-fig. 1**. In this way the track will be stopped at a certain point keeping displayed the main screen with current track info.

To eject MP3 CD **19-fig. 1** press button **8-fig. 1**.

"Direct selection" FUNCTION

Use the Direct Selection option to enter fast track selection mode.

Turn knob **16-fig. 1** to scroll through the number of positions equivalent to each track and confirm by pressing the knob to start playing.

"Define Playlist" FUNCTION

"Define playlist" function allows the management of max. 100 music pieces among those included in the MP3 CD, to be played in a specified sequence. Dedicated windows allow the tracks choice, addition or cancellation. It is possible to add a single track or an entire folder. This function is described in detail in a specific paragraph below.

"Define playlist" icon key is disabled when a MP3 CD is playing, you must stop CD playing to enable it.

"Playlist" FUNCTION

The "Playlist" function enables or disables playback of user's previously programmed track list. To turn this function on/off, select the corresponding icon with the knob **16-fig. 1** and then press it to confirm.

When the "Playlist" function is on, symbol "✓" is shown near the corresponding icon.

When inserting a MP3 CD coupled to a playlist the "Playlist" function is enabled automatically and symbol "✓" will be displayed; otherwise the playlist function is disabled automatically and symbol "✓" near the icon will disappear.

The icon key is disabled when a MP3 CD is playing, independently from "Playlist" function enabling/disabling; stop the CD to enable the icon key.

"Compression" FUNCTION

This function optimizes MP3 CD sound quality when playing it in the car.

To turn this function on/off, select the "Compression" icon with the knob **16-fig. 1** and press it.

When the "Compression" function is on, symbol "✓" is shown near the corresponding icon.

"Scan" FUNCTION (BRIEF PLAYBACK)

The "Scan" function is turned on/off selecting the relevant icon key with the knob **16-fig. 1** and pressing it.

When this function is on, all the MP3 CD tracks are played for about 10 seconds in the actual sequence on the MP3 CD or the preset playlist is played (depending on "Playlist" enable/disable).

To turn the function off, select the "Scan" icon and press the knob **16-fig. 1** again.

"Shuffle" FUNCTION (RANDOM PLAYING)

To turn the "Shuffle" function on/off, turn the knob **16-fig. 1** and press it after selecting the function.

When the Shuffle function is on, the display shows "SHUFFLE".

With this function on, the MP3 CD tracks or the playlist are played in random sequence (depending on "Playlist" enable/disable).

To turn the function off, select the "Shuffle" icon and press the knob **16-fig. 1** again.

"Audio setup" FUNCTION (AUDIO ADJUSTMENTS)

To access the audio setup menu while listening to a MP3 CD, select the "Setup" icon rotating the knob **16-fig. 1** and press it to confirm.

For the description of the different functions available in the menu, refer to the corresponding paragraph in section "RADIO Mode".

PLAYING THE PLAYLIST

Inserting a MP3 CD with associated playlist starts sequence playing automatically.

The main screen shows also the following information:

- audio source (MP3);
- when available, author and song name **fig. 28**, or file name **fig. 29**;
- current track number **fig. 28**;
- current status of MP3 CD source (play **fig. 28**, pause **fig. 30**, stop **fig. 31**);
- playback time info;
- list of available tracks;
- SHUFFLE, REPEAT... according to the active function.



fig. 28



fig. 30



fig. 31

Icon keys on the right of the screen are all enabled, excluding "Define playlist" and "Playlist" under "Play" and "Pause" conditions **fig. 28** and **30**; stop the MP3 CD ("Stop") to enable these two functions **fig. 31**.

When playing MP3 CD, buttons "◀◀" **10-f> fig. 1** and "▶▶" **11-f> fig. 1** on the left of radio-navigation system keypad, perform the following functions:

— with short push skips to previous/next track in playlist;

— with long push skips 10 tracks back/forward in playlist.

Starting from "Stop" state (stop playing by pressing "II/▶" **7-f> fig. 1**, user can modify the playlist by means of the "Define playlist" function or set a track sequence by means of the "Playlist" function. It is then possible to play the MP3 CD by pressing again "II/▶" **7-f> fig. 1** ("Play" key).



fig. 29



fig. 31

PLAYING CD MP3

When a MP3 CD (to which a play list has not been matched previously) is put into the player, the radio navigation system will start playing automatically from the first piece of the first folder available in the CD, then it will go on in a sequence. After all of the pieces found in a folder have been played, the pieces found in the next folder of the CD will be played.

Before starting to play the first track of the new folder, the display shows for five seconds the new folder name.

The main screen shows also the following information:

- audio source (MP3);
- when available, author and song name **fig. 28**, or file name **fig. 29**;
- current track number **fig. 28**;
- current status of MP3 CD source (play **fig. 28**, pause **fig. 30**, stop **fig. 31**);
- CD time information;
- list of available tracks;
- TA, SHUFFLE, REPEAT... according to the active function.

Icon keys on the right of the screen are all enabled, excluding "Define playlist" and "Playlist" under "Play" and "Pause" conditions **fig. 28** and **30**; stop the MP3 CD ("Stop") **fig. 31** to enable these two functions.

When playing MP3 CD, buttons "◀◀" **10**-**fig. 1** and "▶▶" **11**-**fig. 1** on the left of radio-navigation system keypad, perform the following functions:

- pressing the keys briefly will allow you to shift to the previous/following piece of the play list; shifting from one section of the CD to the next one will involve displaying the name of the new folder for a few instants;
- with long push skips to previous/next 10 track with respect to one being played (provided the folder is not empty). Should there be in the folder 10 tracks preceding or following the track being played then, skip to first track of the previous or next folder with respect to the one being played will take place. During this operation the name of the new folder is displayed for five seconds.

Starting from "Stop" state (stop playing by pressing "II/▶" **7-fig. 1**, user can create or modify the playlist (if any) by means of the "Define playlist" function or set a track sequence by means of the "Playlist" function. It is then possible to play the MP3 CD by pressing again "II/▶" **7-fig. 1** ("Play" key).

DEFINE PLAYLIST

The "Define playlist" function enables to create a playlist.

Select "Define Playlist" function on the main screen by rotating the knob **16-fig. 1** and then press it to confirm. In this way you go to a window displaying the following functions **fig. 32** and **33**:

- Add
- Info
- Start of list
- End of list
- View Playlist
- OK.



fig. 32

The left side of the screen displays (folder-organized) MP3 CD structure. Max. 10 rows with all the folders and file names are displayed. To scroll names, press the multifunction key **17-fig. 1** symbols "▲" and "▼" at the bottom of the screen.

The top of the screen shows the number of selected tracks in playlist (100 max.).

At the bottom of the screen are shown the functions that can be activated by pressing the corresponding multifunction keys **17-fig. 1** on the radio-navigation system;

— "▲" and "▼" allow to scroll up/down between folders and tracks shown on the screen. Arrows are greyed when reaching the top or the bottom of the list.

— allows to skip to next folders (greyed when positioned on the last folder of the list)

— allows to skip to previous folders (greyed when positioned on the first folder of the list)

To define the playlist proceed as follows:

- select the preferred track scrolling the available ones pressing buttons “▲” or “▼” on the keypad **17-fig. 1**.
- press the knob **16-fig. 1** to confirm.

Proceed in the same way for all the tracks you want to add to the playlist.

When the max. limit is reached (100 max.), the display will show the following message: “Playlist is complete. Eliminate at least one track in order to enter the current track” **fig. 34**.

To store settings, select “OK” with the knob **16-fig. 1** and press the knob **16-fig. 1**.

Pressing “ESC” **15-fig. 1** takes back to MP3 mode main screen, loosing set modifications.

During “Define playlist” operations, buttons **10, 11** and **7 fig. 1** are disabled.

Changing mode without abandoning “Define playlist” menu, on the screen section dedicated to AUDIO info appears the message “MP3 Def.” (in the middle of the main screen **fig. 35**).

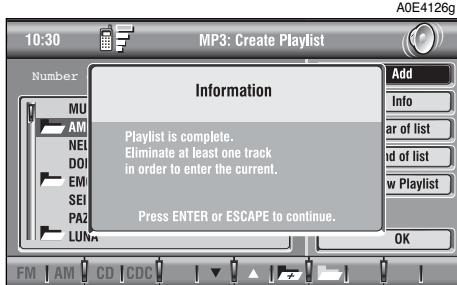


fig. 34



fig. 35

"Add" function

The "Add" function enables to add single tracks or folders to playlist. 100 tracks max. can be added to a playlist; when this limit is reached the "Add" icon key is greyed. If this limit is exceeded loading a folder, only permitted tracks are added.

To turn the "Add" function on, select the corresponding icon by rotating the knob **16-fig. 1** and press it to confirm.

"Info" function

"Info" function shows a screen **fig. 36** displaying the file name, the author and the title of the song.

This function reminds the user the contents of a file.

To turn the "Info" function on, select the corresponding icon by rotating the knob **16-fig. 1** and press it to confirm.

"Start of list" function

"Start of list" function goes to first folder of MP3 CD.

To turn the "Start of list" function on, select the corresponding icon by rotating the knob **16-fig. 1** and press it to confirm.

"End of list" function

"End of list" function goes to last folder of MP3 CD.

To turn the "End of list" function on, select the corresponding icon by rotating the knob **16-fig. 1** and press it to confirm.

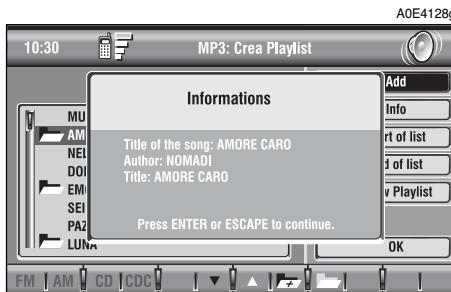


fig. 36

"View Playlist" function

"View Playlist" function recalls a new screen containing playlist tracks **fig. 37**.

To turn the "View Playlist" function on, select the corresponding icon by rotating the knob **16-fig. 1** and press it to confirm.

The screen displays the following functions:

- Delete
- Delete all
- Info
- Start of list
- End of list
- Def. Playlist (define playlist)
- OK.

On the left side of the screen the playlist files are displayed; max. 10 rows are displayed. To scroll file names, press the multifunction key **17-fig. 1** symbols "▲" and "▼" at the bottom of the screen.

The top of the screen shows the number of stored tracks in playlist.

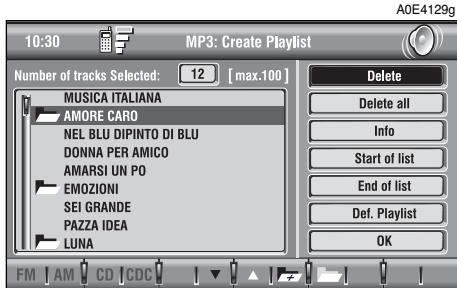


fig. 37

The multifunction key **17-fig. 1** symbols "▲" and "▼" allow to scroll up/down the playlist files; when on the last file, key "▼" is greyed; in the same way, when on the first file, key "▲" is greyed.

To store settings and return to "Define playlist" screen, select "OK" with the knob **16-fig. 1** and press it.

Pressing "ESC" **15-fig. 1** takes back to "Define playlist" screen without saving settings.

"Delete" function

Selecting the "Delete" icon with the knob **16-fig. 1** and confirming it with "ENTER" **16-fig. 1** deletes the current selected track from the playlist. To select the track to delete use keys " \blacktriangle " and " \blacktriangledown " on keypad **17-fig. 1**.

"Delete all" function

Selecting the "Delete all" icon with the knob **16-fig. 1** and pressing it to confirm deletes the entire playlist. MP3 main screen is displayed and "Playlist" icon is disabled since there is no playlist available.

"Info" function

"Info" function displays a screen showing the selected file name, the author and the title of the song.

This function reminds the user the contents of a file.

To turn the "Info" function on, select the corresponding icon by rotating the knob **16-fig. 1** and press it to confirm.

To select the required file use keys " \blacktriangle " and " \blacktriangledown " on the keypad **17-fig. 1**.

"Start of list" function

"Start of list" function goes to first playlist track.

To turn the "Start of list" function on, select the corresponding icon by rotating the knob **16-fig. 1** and press it to confirm.

"End of list" function

"End of list" function goes to last playlist track.

To turn the "End of list" function on, select the corresponding icon by rotating the knob **16-fig. 1** and press it to confirm.

"Def. playlist" function

Selecting "Def. playlist" function with the knob **16-fig. 1** and pressing "ENTER" to confirm **16-fig. 1**, recalls automatically the "Define playlist" screen. For the description of the different functions available in this screen, see previous specifications in the corresponding paragraph.

"OK" icon key

To save modifications set in "View playlist", select "OK" with the knob **16-fig. 1** and press it to confirm. Saving takes back to "Define playlist" screen.

To save "Define playlist" modifications, select "OK" with the knob **16-fig. 1** and press it to confirm.

CELLULAR TELEPHONE WITH VOICE COMMANDS (where provided)

The radio-navigation system is fitted with a Dual Band GSM cellular telephone with hands-free feature.

The GSM standard (Global System for Mobile Communication) is now available in many countries and offers excellent coverage: for information about the areas served currently by the GSM networks and those available in the future, contact your network provider.

GENERAL INFORMATION

The cellular telephone has the following functions which simplify use:

- PIN code (Personal Identification Number) to prevent unauthorised telephone use
- PIN change
- activation/deactivation of PIN request at access
- incoming calls acceptance and refusal

- start a telephone call
- emergency call (even without SIM card and without entering PIN code)
- reading the telephone numbers stored on the SIM card
- entering a new telephone number on the SIM card
- deleting a telephone number from the SIM card
- information on SIM card conditions (correct or wrong insertion)
- access to the list of the last 10 numbers dialled to facilitate frequent calls
- access to the list of the last 10 calls received
- SMS function (Short Message Service) to receive and send short text messages
- activation and deactivation of access to SIM card
- access and change of the lists containing the most frequently dialled numbers and to telephone directory
- manual number dialling
- DTMF setting (Dual Tone Multi Frequency) to repeat dialling and inhibit the own identification number transmission
- selection of network provider
- setting volume and tone of incoming calls
- displaying the remaining credit for a pre-paid SIM card (if provided for by the telephone company)
- display of signal field intensity and other status warnings with symbols and words.

PRELIMINARY OPERATIONS

ENTERING/EXITING THE TELEPHONE MODE

To enter the telephone mode proceed as follows:

- fit the key into the ignition switch or press button **1-fig.1**;
- short push on “TEL OFF” button **12-fig. 1** on front panel.

The display shows the telephone mode “main screen” **fig. 38** that provides the following information:

- Time.
- GSM field strength. If telephone mode is “switched off” the display shows “TEL OFF”. GSM signal strength is shown even if no SIM card is inserted.

— Active GSM provider. If a SIM card is inserted and validated by PIN and no provider is available, the display will show “FIND...”.

- An envelope-shaped symbol to indicate unread SMS message/s.
- An arrow-shaped symbol to indicate active call forward.
- Active AUDIO source information.
- “TEL” string to indicate that telephone module is currently active.
- A box to input telephone number with “DIAL NUMBER” string.
- An icon key: “Delete” to clear off the telephone number input in the box.

— A vertical menu featuring the following icon keys:

Frequent numbers: used to manage the frequently dialled number list.

Ph/Book: manages the database of names/phone numbers.

Messages: used to read and send short text messages.

Last calls: gives access to a list of the last incoming/outgoing calls.

Memo: manages voicemail box.

WAP: gives access to WAP service (Wireless Access Protocol).

Settings: used to modify phone settings.



fig. 38

If the radio-navigation system is already on (e.g. audio mode), to enter the telephone mode proceed as follows:

- press shortly button **13-fig. 1**, the display will show for few seconds the last dialled number;
- press again button **13-fig. 1** to start the phone call.

When call is in progress, the display shows the status as in **fig. 39**:

- Current telephone status ("call in progress").
- Conversation time of the active call.
- Remaining credit (if provided for by the telephone company).
- Called or incoming telephone number (if available by the provider).
- Directory data associated to this number.
- Numbers typed-in during the conversation when calling a service provider and inputting requested information like credit card number, or arrival time of your desired train, etc...

Press "ESC" **15-fig. 1** to return to main telephone screen.

- A long push on "TEL OFF" button **12-fig. 1** switches off (the display shows an hourglass during this operation) the telephone mode (TEL OFF). To switch it on again, a short push on the same button will be required.



fig. 39

INSERTING TELEPHONE CARD

If no valid SIM card is inserted when calling the telephone function, the display shows the relevant warning message.

The insertion of a valid SIM card makes it possible to make the telephone operational and access its functions. The telephone card is to be inserted in the special slot **18-fig. 1**:

- press button **9-fig. 1** and remove the SIM slot;

- put the SIM cards into the special recess by following the shaping of the seat, with the golden part facing upwards.

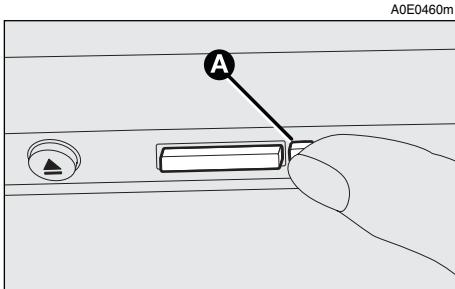


fig. 40

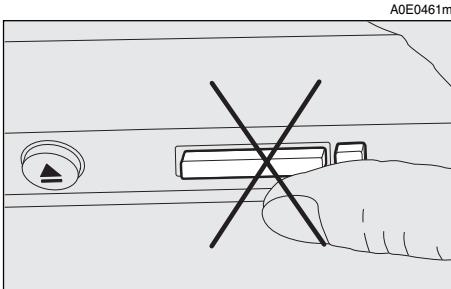


fig. 41

Correct card insertion is confirmed by the prompt to type the card PIN code **fig. 42** (if enabled).

To remove the SIM card, slightly press into its housing and then release it; it will come out a little so that you can extract it.

WARNING for removing the SIM card correctly, press exclusively key **A-fig. 40** placed on right-hand side of SIM card. In case extraction operation is not carried out correctly **fig. 41**, the SIM container might get damaged.

IMPORTANT Removing the SIM card with the telephone on may cause temporary faults; before removing the SIM card the user should always turn the telephone off through the "TEL OFF" button **12-fig. 1** or turn the radio-navigation system off using the "ON" button **1-fig. 1**. In the event of faults due to removing the SIM card with the phone working, regular operation will be resumed switching the system off and on again.

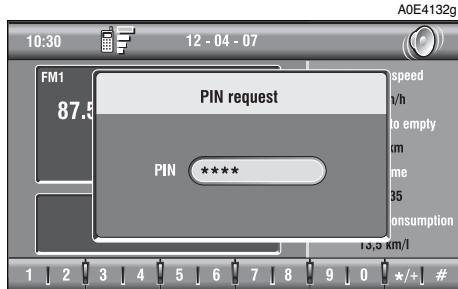


fig. 42

ENTERING THE PIN CODE

IMPORTANT The PIN code (Personal Identification Number) prevents unauthorised use of SIM card services.

PIN is asked in the following cases:

- When the system is switched on, with SIM card already inserted into the SIM reader and PIN lock is enabled on that SIM card.
- When a SIM card is inserted into the SIM reader, and the system is already on, and PIN lock is enabled on that SIM card.
- When “TEL” key **12-fig. 1** is pushed to switch on a previously switched off telephone module (TEL OFF), and the SIM card is inserted into the SIM reader, the PIN lock is enabled on that SIM card and PIN code has never been inserted before.
- When the user tries to make a non-emergency call and the SIM card is inserted into the SIM reader, PIN lock is enabled on that SIM card and PIN code has never been inserted before.
- When “TEL OFF” **12-fig. 1** or **key 13-fig. 1** is pushed and a SIM card is inserted into the SIM reader and the system is already on and PIN lock is enabled on that SIM card.

To enter the PIN code (between 4 and 8 digits) use the multifunction buttons **17-fig. 1** at the bottom of the display and confirm by pressing knob **16-fig. 1**. Entered digits are shown by asterisks on the display **fig. 42**.

If a PIN code digit needs to be corrected, press “ESC” **15-fig. 1** to delete it and write it again correctly.

IMPORTANT If the user refuses to insert PIN, a dialog box is displayed, saying that telephone functions will not be available till the insertion of the correct PIN. Only emergency calls (like police or S.O.S.) will always be enabled; in this case only input box and 0-9 buttons will be available on the display.

IMPORTANT After three unsuccessful PIN code entries, the card is locked. To unlock the card, enter both the PUK code (Pin Unblocking Key) and the new PIN.

The network signal search begins after entering the PIN code and the display shows the main telephone function page. After connection, the display shows the network provider's name.

INCOMING CALLS

Whichever the radio-navigation system active mode is, when an external call comes in, a dialog box will be overlapped **fig. 42a** on the current window that shows the following information:

- call from;
- name of the calling party (if available in the directory);
- caller phone number, if this service is available from the network provider;
- animated icon which is associated to the ringer sound;
- accept or refuse.



fig. 42a

To accept the call, proceed as follows:

- short push on button ↳ **13-fig. 1**; dialog box disappears and ring stops, the display shows the string "call in progress".

To close the conversation, proceed as follows:

- press button ↳ **13-fig. 1**; the system returns automatically to the previous mode and the display shows the relevant status.

To refuse the call, proceed as follows:

- long push on button ↳ **13-fig. 1**; dialog box disappears and ring stops. In this case the screen will remain the one shown before the incoming call.

IMPORTANT Dialog box disappears and ring stops also if the line is unwillingly lost.

OUTGOING CALLS

To start a call, proceed as follows:

- enter the telephone mode as previously described;

- dial the required number using the 12 bottom key corresponding to digit/characters;

- in the event that an international code number is to be used ("+"), press key "* / +", or key "0" (over a prolonged time).

- dialled number is shown in the input box on the display; max. 20 digits can be input;

- push button ↳ **13-fig. 1**.

IMPORTANT When entering the first digit, focus moves automatically to "Delete" thus enabling to clear off the inserted phone number.

IMPORTANT Short push on "ESC" **15-fig. 1** clears the last input digit.

— to start a call, press button **13-fig. 1**; active screen becomes the one shown in **fig. 39**.

IMPORTANT Push on bottom keys (1-9) selects the corresponding stored phone number (see paragraph "Frequent Numbers" for details).

Volume is adjusted by knob **1-fig. 1**.

DIALLING A SERVICE NUMBER

Following the instructions given in the previous paragraph, the user can dial service numbers (e.g.: <# xxxx >) according to ETSI Standard GSM 02.30.

"Frequent Numbers" FUNCTION

"Frequent numbers" function enables to create and have quick access to a list with the 9 most frequently dialled phone numbers.

Choose a user whose number is identified as a frequent number by turning knob **16-fig. 1** to the Frequent Number option on the phone main menu and confirm by pressing the knob. This gives access to a submenu with the options Select, New Item, Sort and Delete all **fig. 43**.

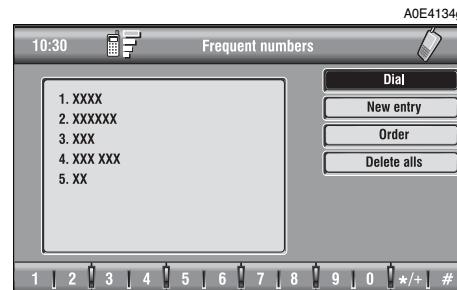


fig. 43

"Dial" FUNCTION

The "Dial" function **fig. 44** enables the user to enter the list of stored frequent numbers. After selecting an entry of the list with the knob **16-fig. 1**, start the call by pushing button **✓ 13-fig. 1**; active screen becomes the one shown in **fig. 40**. Select the "DIAL" icon key by pressing the knob **16-fig. 1** to display detailed information about selected name and number and the icons "Call" and "Delete" **fig. 45**.

To call the selected number proceed as follows:

- select the "Call" icon key rotating the knob **16-fig. 1** and press it to confirm;
- push button **✓ 13-fig. 1**.

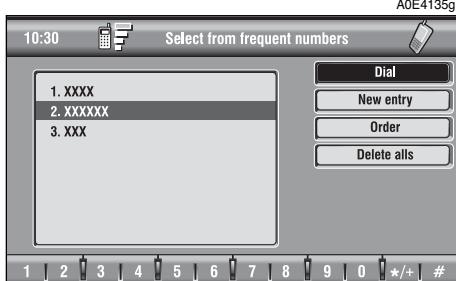


fig. 44

To delete the selected number from the list proceed as follows:

- select "Delete" icon rotating the knob **16-fig. 1**, a confirmation box with "YES" - "NO" **fig. 46** will come up;
- rotate the knob **16-fig. 1** and select "YES"; all the numbers below the deleted one are moved up by one position automatically.

IMPORTANT "Delete" shall be used specially when the "Frequent numbers" list is full (9 numbers stored) and you want to enter a new number.

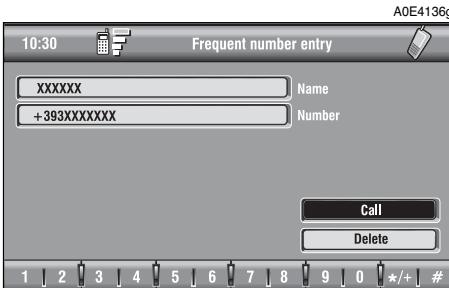


fig. 45

"New entry" FUNCTION

"New entry" icon key is used to copy an entry from the directory.

To copy an entry from the directory and add it to the "Frequent numbers" list proceed as follows:

- rotate the knob **16-fig. 1** to select the "New entry" icon key;
- press the knob to confirm. If the list is full (9 numbers), then the "New entry" icon key is disabled;
- the display shows a keypad to be used to type the desired number or the names stored in the directory **fig. 47**.

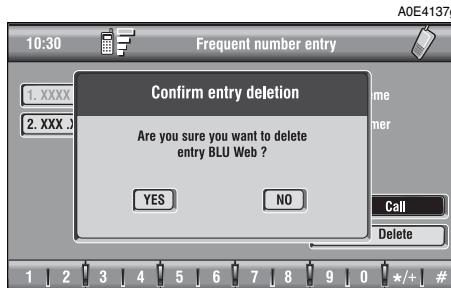


fig. 46

Type-in or search as required by selecting the first letters of the name with the knob **16-fig. 1** and press it to confirm.

If the user tries to add an already existing number to the "Frequent numbers" list, the display will show the already stored entry.

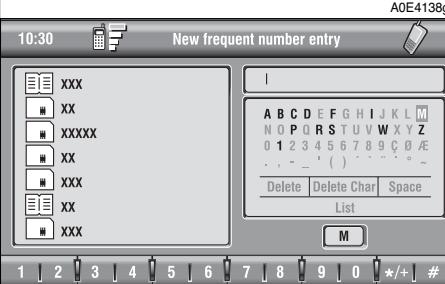


fig. 47

"Order" FUNCTION

"Order" function **fig. 48** allows arrangements of the entries in the "Frequent Numbers" list.

To move an entry from position "3" to position "1" for example, proceed as follows:

- rotate the knob **16-fig. 1** to select the "Order" icon, then press the knob to confirm;

- select the number in position "3" with the knob **16-fig. 1** and press it to confirm;

- move selected number from position "3" to "1" by rotating the knob **16-fig. 1** then press it to store the new position.

"Delete alls" FUNCTION

The Delete all option deletes the full list of Frequent numbers.

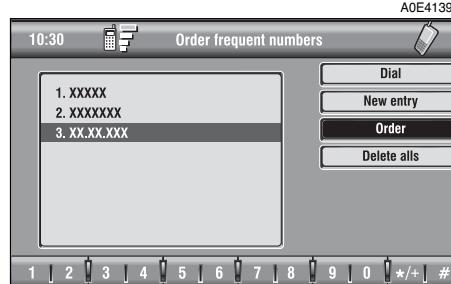


fig. 48

"Ph/Book" FUNCTION

"Phonebook" function makes access to an electronic directory of personal phone numbers and names.

- select "Phonebook" by rotating and pressing the knob **15-fig. 1**; the screen shown is that in **fig. 49**, with the following available icon keys: "Dial", "Add", "Listen V. Ph/Book", "Delete V. Ph/Book" and a list with the first items of the Phonebook.

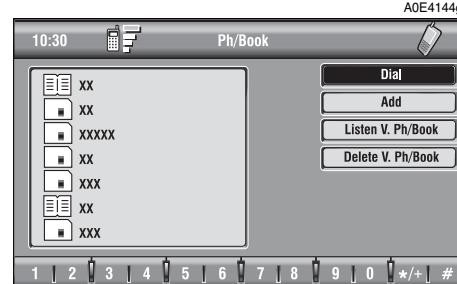


fig. 49

"Dial" icon key

"Dial" icon key is used to select a directory phone number.

Select "Dial" by rotating and pressing the knob **16-fig. 1**; the display shows the keypad, the editing box and the list of stored names **fig. 50**.

The keypad on the right has the following functionalities:

- alphanumeric characters (including space);
- string or last entered character deletion;
- active list: enter a character selecting it by rotating and pressing the knob **16-fig. 1**, the system searches and displays automatically the first stored entry, in the relevant data base, that begins with the same letter.

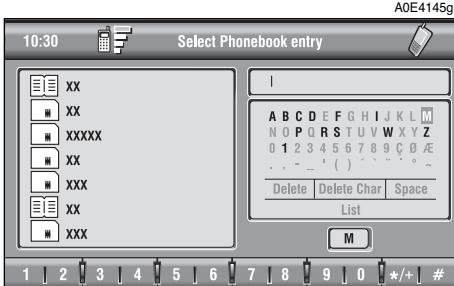


fig. 50

Proceeding with the editing box composition, as soon as the system finds an entry present in the data base, selection moves automatically to the directory list; press the knob **16-fig. 1** to confirm;

— fast data input: to speed up data input, the system provides immediate positioning to the bottom and to the top of the list setting respectively before and after the last character by rotating the knob **16-fig. 1**.

The keypad includes the following characters:

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
0	1	2	3	4	5	6	7	8	9	ç	ø	æ	.	,	-	_	'	()	'	``	^	°	~	

To compose the following characters:
À Á Â Ã Ä Å É Ë Ì Í Î Ò Ó Ô Õ Ö Ú Û Ü Ý Ñ, combined use of the following symbols: `` `` ^ ° ~ is required.

Example: if the user selects **E** and then **“** the two characters are replaced by their corresponding single character **É**.

Blank and symbols **,** **-** **_** **'** **()** are word separator characters.

After selecting "List" by rotating and pressing the knob **16-fig. 1**:

— the keypad disappears and an entry of the list can be selected **fig. 51**; a scrolling lift key appears on the left when the list is shown and the items cannot be displayed together, the lift indicates the focus position in the displayed position;

— after selecting the required entry, press button **13-fig. 1** to start the call;

— pressing the knob **16-fig. 1** takes to a window with detailed information about selected name and number. Icons “Call”, “Change”, “Delete” and “Save in..” are available on the display **fig. 52**.

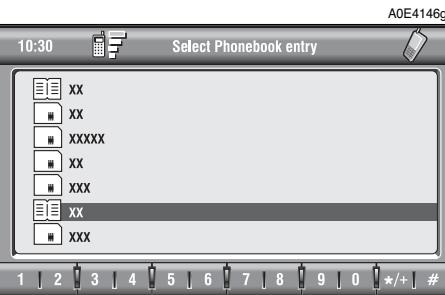


fig. 51

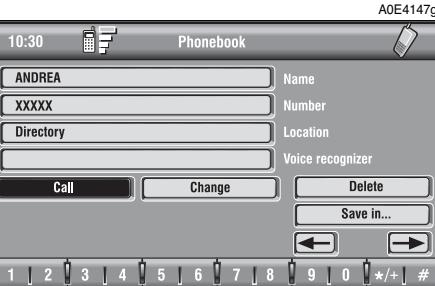


fig. 52

IMPORTANT A SIM card element cannot be associated to a voice sample.

“Call”: selecting this icon key by rotating and pressing the knob **16-fig. 1**, starts call to the selected number; the display goes back to “call in progress” screen.

“Change”: selecting this icon key by rotating and pressing the knob **16-fig. 1**, it is possible to change the name, the phone number and the relevant voice sample. “Location” cannot be changed **fig. 53**.

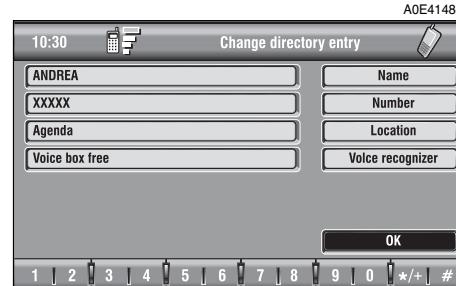


fig. 53

“Delete”: clears off a directory entry.

— rotate the knob **16-fig. 1** to select “Delete”; a confirmation box with “YES” - “NO” **fig. 54** will come up;

— select “YES” by rotating the knob **16-fig. 1**;

— press the knob to confirm; during deleting operation the display shows “Please wait ...” then goes back to main directory screen.



fig. 54

"Save in ...": selecting this icon by rotating the knob **16-fig. 1** and pressing it to confirm **fig. 55** it is possible to perform the following:

- add the selected entry to the "Frequent numbers" list (if the list is full, the key is disabled), proceed as follows: rotate and press the knob **16-fig. 1** to select "Save in frequent numbers", the selected entry is automatically added in last position of the "Frequent numbers" list.

- copy the selected entry from the directory to the SIM card and vice versa.

To copy a directory entry to the SIM card:

- select, by turning knob **16-fig. 1**, the "Save into SIM card" graphic key, then confirm by pressing the same; the system will carry out a check to verify whether an entry with the same name exists in the SIM card (if it does, the display will show the message "Name already found in the SIM card"), then it will copy the entry, by putting the latter into the SIM card.

To copy an entry from the SIM card to the phonebook:

- select, by turning knob **16-fig. 1**, the "Save into phonebook" graphic key, then confirm by pressing the same; the system will carry out a check to verify whether an entry with the same name exists in the diary (if it does, the display will show the message "Name already found in the diary"), then it will copy the entry, by putting the latter into the diary.

Each directory entry is identified by number, name and location.

If two entries have the same name and number but different location, both entries are added to the phonebook list.

In the entry list, a dedicated icon indicates entry location:

 = item stored in phone phonebook;

 = item stored in SIM card.

"Previous entry" and "Next entry": these icons show data concerning previous or next phonebook entry.

If the user is already at the first or last position in the phonebook these buttons are disabled.

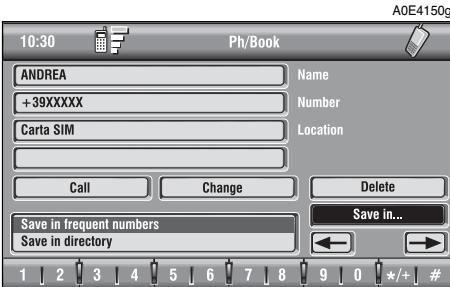


fig. 55

"Add" icon key

"Add" icon enables to add a new entry to the phonebook.

Rotate the knob **16-fig. 1**, select "Add" and then press the knob to confirm; the display shows the status in **fig. 56** and the following icon keys: "Name", "Number", "Location", "Voice recognizer", "OK".

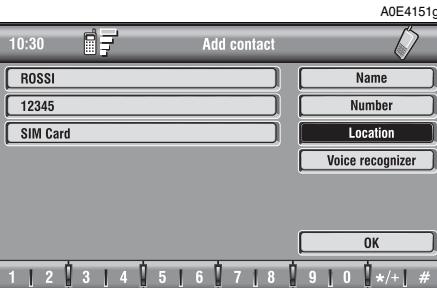


fig. 56

"Name": allows input of name and surname of new entry, proceed as follows:

IMPORTANT When selecting "Name", remember that it is not possible to add a name already present in the Navigator function directory.

— rotate the knob **16-fig. 1**, choose "Select" and then press the knob to confirm; the display shows the keypad and the editing box **fig. 57**.

— form name and surname by selecting letters one by one through the knob **16-fig. 1** and pressing it to confirm; proceed in this way until completing the entry;

— rotate the knob **16-fig. 1**, select "OK" and then press the knob to confirm; the display returns to screen in **fig. 56**.



fig. 57

"Number": allows insertion of new phone number, proceed as follows:

— rotate the knob **16-fig. 1**, select "Number" and then press the knob to confirm; the display shows the keypad and the editing box **fig. 57**.

— form the number selecting digits one by one through the knob **16-fig. 1** and then press it to confirm; proceed in this way until completing the required phone number;

— rotate the knob **16-fig. 1**, select "OK" and then press the knob to confirm; the display returns to the screen in **fig. 56**.

“Location”: this icon is used to store the new entry on the SIM card or directory according to the chosen option. SIM card numbers are automatically copied to the directory after PIN validation and cleared at SIM card extraction.

“Voice recognizer”: allows to manage a voice sample associated to stored names/numbers.

“OK”: confirms the insertion of the new entry, proceed as follows:

- rotate the knob **16-fig. 1**, select the icon key and then press the knob to confirm; the display shows “Please wait...” and the system will store the new entry in the directory.

IMPORTANT If the same name is already existing, the display will show “Name already in phonebook”.

Voice recognition

(active only when phonebook has been selected as stored phone number location)

To enter this mode proceed as follows:

- rotate the knob **16-fig. 1**, select “Voice recognizer” and then press the knob to confirm; the display shows the condition in **fig. 58** and the following icon keys: “New voice command”, “Delete voice command”, “Listen to voice command”, “OK”.

“New voice command”: activates recording of a new voice sample, proceed as follows:

- rotate the knob **16-fig. 1**, select the icon key and then press the knob to confirm;
- user is guided by appropriate messages and will have to pronounce twice the name to be recorded;
- after recording, rotate the knob **16-fig. 1**, select “OK” and then press the knob to confirm, recorded voice sample is then stored in the directory.

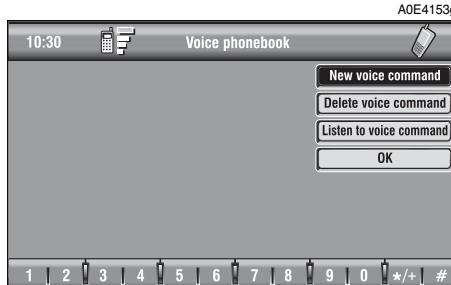


fig. 58

“Delete voice command”: allows deletion of a previously recorded voice sample; proceed as follows:

— rotate the knob **16-fig. 1**, select the icon key and then press the knob to confirm;

— rotate the knob **16-fig. 1**, select “OK” and then press the knob to confirm, the voice sample will be deleted from the directory.

IMPORTANT This icon key is active only if the concerned entry, in the directory, is associated to a voice sample as described previously.

“Listen to voice command”: reproduces a previously recorded voice sample; proceed as follows:

— rotate the knob **16-fig. 1**, select the icon key and then press the knob to confirm; the system will reproduce the selected voice sample.

IMPORTANT This icon key is active only if the concerned entry, in the directory, is associated to a voice sample as described previously.

“OK”: confirm changes and stores them in the directory.

IMPORTANT If the user after ending these operations doesn't select “OK” and confirm by pressing the knob **16-fig. 1** new settings will not be stored in the directory.

“Listen V. Ph/Book”

This icon key makes it possible to reproduce all the voice samples previously recorded; proceed as follows:

— rotate the knob **16-fig. 1**, select the icon key and then press the knob to confirm; the system will reproduce stored samples.

Press “ESC” **15-fig. 1** to stop as suggested on the display.

"Delete V. Ph/Book" icon key

This icon key (Delete voice directory) allows to clear off previously recorded voice samples; proceed as follows:

- rotate the knob **16-fig. 1**, select the icon key and then press the knob to confirm; the display will show the following string: "Press "ENTER" to confirm, "ESCAPE" to cancel".
- pressing the knob **16-fig. 1** clears off voice samples, during deletion the display will show "Please wait...".
- pressing "ESC" **15-fig. 1** deletion is not performed and previous screen is displayed.

"MESSAGES" FUNCTION (SMS - Short Message Service)

"Messages" key allows reading and sending short messages (maximum length is 160 characters) by GSM phone.

Read and sent messages are stored into two separate boxes, which however share a common memory section; so the sum of sent and read stored messages must not exceed the maximum number of allowed SMS (it depends on the SIM card).

Telephone module stops input of new messages when the buffer is full and the "Enter" key is disabled.

In this case the display shows a string with the following warning message: "Further SMS messages cannot be stored or received".

When selecting "Messages" key by rotating and pressing the knob **16-fig. 1**, the display shows the screen in **fig. 59** with the following icon keys:

"Dial": to select message;

"Enter": to compose message;

"Center number": to specify service center telephone number, stored in the SIM card.

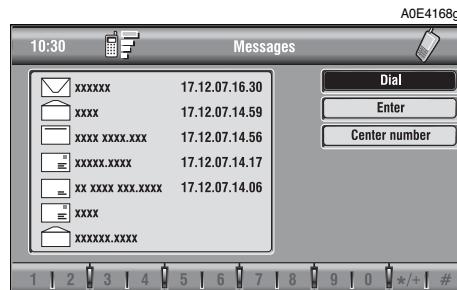


fig. 59

Dial

When selecting “Dial” by rotating and pressing the knob **16-fig. 1**, the display shows the message list **fig. 60**. There are four different message types:

- message stored but not sent;
- message stored and sent;
- message received but not read;
- message received and read.



fig. 60

When the user selects a message of type or from the above list, screen displayed is that shown in **fig. 61**.

Selecting “Delete” by rotating and pressing the knob **16-fig. 1**, activates selected message deletion. A confirmation dialog (with YES and NO) is shown for user confirmation; selecting and confirming “YES” starts message deletion from SIM card.



fig. 61

When selecting “Send” by rotating the knob **16-fig. 1** and then pressing it to confirm:

- the message is sent; on the display appears the string “User information” — “Please wait ...”. Information about message delivery (successful or not) is then displayed before returning to screen in **fig. 60**

Press "ESC" **15-fig. 1** to go back to **fig. 60** screen.

When selecting or from the above list, the display will show **fig. 63** screen.



fig. 63

Selecting "Delete" by rotating and pressing the knob **16-fig. 1**, activates message deletion, the system will ask for confirmation and then the message is deleted from the SIM card.

Selecting "Call" by rotating and pressing the knob **16-fig. 1**, starts a call to the sender of the message; the display shows "Call in progress".

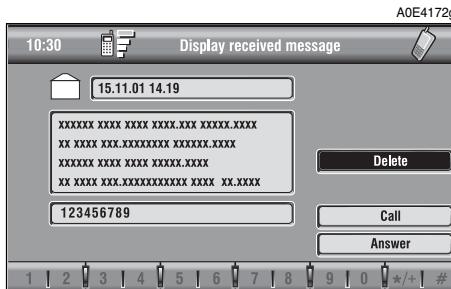


fig. 63

Selecting "Answer" by rotating and pressing the knob **16-fig. 1**, lets the user reply to the received message with a new SMS; the display shows **fig. 62** screen.

Press "ESC" **15-fig. 1** to quit and go back to **fig. 60** screen.

Enter

IMPORTANT The “Dial” graphic key can only be selected if enough storing space is available in the SIM card message memory. Otherwise, one or several messages need be cleared in order to make space available in the message memory.

Selecting “Enter” by rotating and pressing the knob **16-fig. 1**, the display shows **fig. 64** screen with the following icon keys:

- “Text” icon key: displays the keypad **fig. 65** to be used for text message composition; the counter shows the number of still available characters;

- “Telephone number”: icon key: enables, by means of multifunction keys **17-fig. 1** (associated to icon keys **0-9** and **+**) to compose the phone number to which the message must be sent;

- “Ph/Book” icon key: lets the user choose a number from the directory instead of direct number dialling (see paragraph “Phonebook” for further details);

- “Store” icon key: (enabled if message text is present) stores the message for later delivery.

- “Send” icon key: (enabled only if phone number is present) sends the message; the display shows “user information” — “Please wait . . .”. Information about message delivery (successful or not) is then displayed before returning to screen in **fig. 60**.



fig. 64



fig. 645

Center number

Selecting - by rotating the knob **16-fig. 1** and pressing it to confirm - "Center number" using the multifunction keys **17-fig. 1 (0-9, + and * keys)** the user can set the service Provider phone number **fig. 66**. This number is given by the Provider.



fig. 66

"Last Calls" FUNCTION

Gives access to a list of the last 10 incoming/outgoing calls. Select the Last Calls key by turning knob **16-fig. 1** and confirm by pressing the knob.

"Incoming Calls" function

"Incoming Calls option" pops up the list of the last 10 calls received. The list shows the name (if stored in the directory) and the phone number relevant to the most recently received calls **fig. 67**.

The list is managed and updated by the system automatically.

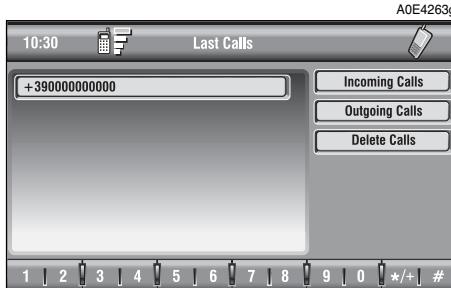


fig. 67

To call directly one of the entries in the list proceed as follows:

- select an entry in the list by rotating the knob **16-fig. 1**;
- push ↗ **13-fig. 1** to start the call (see **fig. 40**).

After selecting the required entry, pressing the knob **16-fig. 1** opens a window with detailed information regarding selected name and number **fig. 68**. Icon keys "Call" and "Store" are available on the display:

- select "Call" by rotating and pressing the knob **16-fig. 1**: system starts the call to the displayed number;
- select "Store" by rotating and pressing the knob **16-fig. 1**: the system stores the current name in the directory.

If the entry is already present in the directory, "Store" key is disabled.

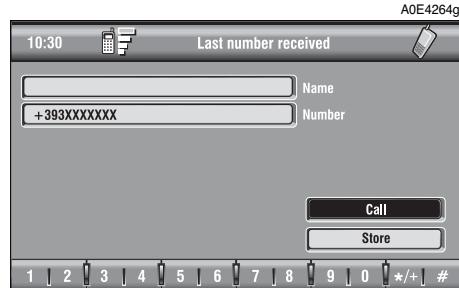


fig. 68

"Outgoing Calls" function

"Last Numbers Called" pops up the list of the last 10 made calls. The list shows the name (if stored in the directory) and the phone number relevant to the most recently made calls **fig. 69**.

The list is managed and updated by the system automatically.

To call directly one of the entries in the list proceed as follows:

- select an entry in the list by rotating the **16-fig. 1**;
- push **13-fig. 1** to start the call (see **fig. 40**).

After selecting the required entry, pressing the knob **16-fig. 1** opens a window with detailed information regarding selected name and number **fig. 70**. Icon keys "Call" and "Store" are available on the display:

— select "Call" by rotating and pressing the knob **16-fig. 1**: system starts the call to the displayed number;

— select "Store" by rotating and pressing the knob **16-fig. 1**: the system stores the current name in the directory.

If the entry is already present in the directory, "Store" key is disabled.

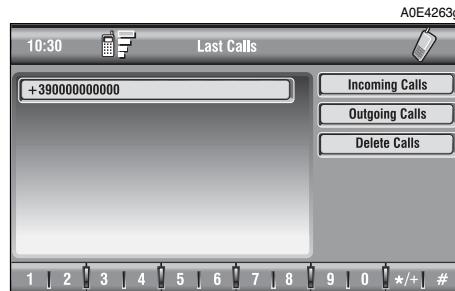


fig. 69

"Delete Calls" function

The Delete Calls option deletes the last incoming or outgoing calls or the list of recent calls.

Select the Delete Calls key by turning knob **16-fig. 1** and confirm by pressing the knob.

Then turn knob **16-fig. 1** to select the action to be carried out and confirm by pressing the knob.

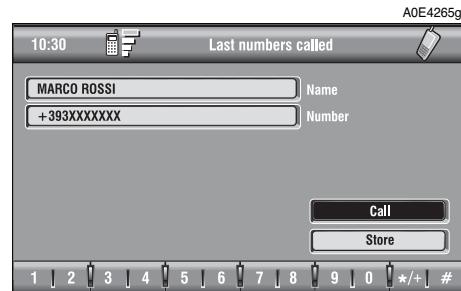


fig. 70

"Memo" FUNCTION

"Memo" allows management of the messages recorded in the voice box.

It is activated by long push on •))
1-fig. 1 a beep and a display message
fig. 71 mark the start of recording.

A maximum of 1 minute of user's voice sampling is available and can be split in several recording sessions.

A further push of •)) key **1-fig. 1** stops sampling. Next sampling will be queued after the previous one.

After 1 minute recording operation is stopped and the display shows the screen in **fig. 72**, the function will be disabled.

Push on "Voice memo" key in main telephone screen displays the screen in **fig. 73**, where percentage of memory occupied/available and active message number (compared with total memorized messages number) are shown.



fig. 71



fig. 72

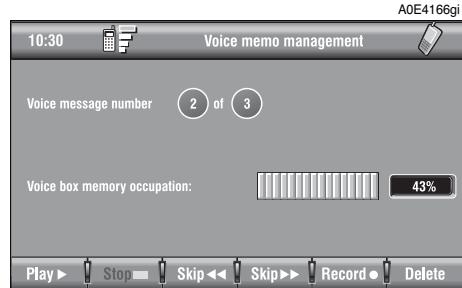


fig. 73

The icon keys at the bottom of the display can be activated by the corresponding multifunction keys on the keypad **17-fig. 1**. Options are the following:

- Play ►** plays active message;
- Stop ■** stops message playback or recording;
- Skip ◀▶** skips to previous message;
- Skip ▶▶** skips to next message;
- Record ●** starts recording;
- Delete** deletes all recorded messages.

"WAP" FUNCTION

The "WAP" icon key opens a GSM link to a WAP provider, browsing the "home" site first. Access to WAP site loads automatically in memory the corresponding "deck"; the display shows the first card of the deck **fig. 74-75**.

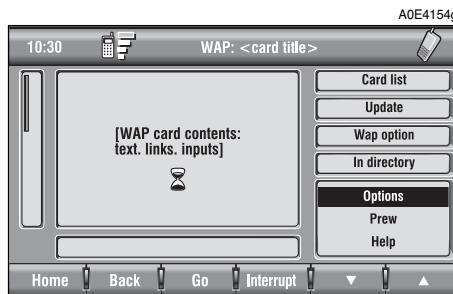


fig. 74

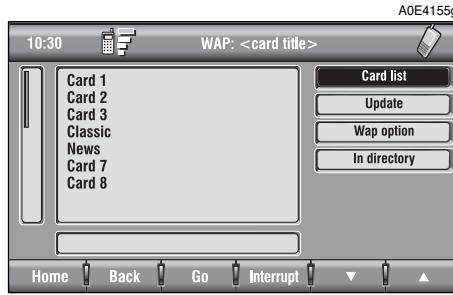


fig. 75

WAP main screen is composed of the following elements:

- Card title, in the centre of the upper bar;
- Main window, on the left, including card text, links and possible selections and/or input areas;
- Left vertical scroll bar, showing if required, which portion of the card is displayed;
- "Card list" icon: displays the title or the ID number of all the cards included in the loaded deck. This icon is greyed when the displayed deck is declared as "No bookmarkable";
- "Update" icon: to reload current deck;
- "WAP options" icon: to set home site and other WAP options;
- "In directory" icon: to store in directory a maximum of ten addresses;

— Card action keys (“Options”, “Prew”, “Help”): existence, number and functionality of these action keys depend on the card content;

— Lower horizontal bar icon keys, enabled or disabled according to the case:

“Home”: makes access to the address defined as Home.

“Back”: displays previously shown card.

“Go”: goes to input address screen (direct access or “bookmark” recall);

“Interrupt”: stops current deck loading;

“▲”, “▼”: scrolls up/down when card cannot be entirely displayed.

During loading operations, an hourglass is displayed on the current page.

Low bar and right icon keys are active only when they are necessary and they are greyed when not consistent; for example “▲” and “▼” keys are active only when window size is not enough to show the entire card.

Rotate the knob **16-fig. 1** to select card action key; after selecting the required key press the knob **16-fig. 1** to confirm; the relevant screen will be displayed.

Press “ESC” **15-fig. 1** and confirm to quit the WAP mode, the display will return to the main telephone screen (TEL).

“Go” low bar icon key

This graphic key **fig. 74-75**, which is selected by pressing the corresponding key **17-fig. 1**, below the writing, makes it possible to get connected to the specified Web address (if allowed for by the provider).

Proceed as follows:

— rotate the knob **16-fig. 1**, select “Address” **fig. 76** and then press the knob to confirm; the display will show a keypad for typing in the required net address;

or, if address is already stored in the directory:

— rotate the knob **16-fig. 1**, select “Site directory” **fig. 76** and then press the knob to confirm; the display will show the stored site directory;

— rotate the knob **16-fig. 1** to select the required address and then press the knob to confirm.

During these operations “▲”, “▼”, “Home”, “Back” and “Interrupt” are disabled.

"In directory" icon key

This key **fig. 74-75**, selected and confirmed by rotating and pressing the knob **16-fig. 1**, stores current displayed site address in the "Site directory" (with a maximum of 10 stored addresses), proceed as follows:

- rotate the knob **16-fig. 1** to select the address and then press the knob to confirm.

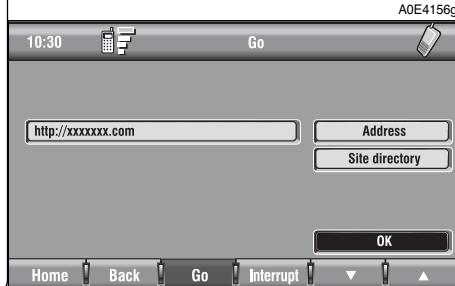


fig. 76

Storing the tenth address, the display shows a dialog box warning the user that the directory is full and the icon key ("In directory") is greyed. Further storing requests a preventive deletion.

A mnemonic string (max. length 30 characters) can be associated to each stored address **fig. 77**; proceed as follows:

- rotate the knob **16-fig. 1** to select "Name" **fig. 77** and type in the required name using the keypad.



fig. 77

"WAP Options" icon key

This key **fig. 74-75** selected and confirmed by rotating and pressing the knob **16-fig. 1**, allows to set up the following WAP options: address of "Home setup" site, "Site directory", "Settings".

"Home set-up"

This key **fig. 78** selected and confirmed by rotating and pressing the knob **16-fig. 1**, allows specification of home site address; proceed as follows:

- select "Address" key **fig. 76** rotating and pressing the knob **16-fig. 1**, the display shows the keypad and the editing box for typing the required address;

or:

- select “Select from site directory” **fig. 79** rotating and pressing the knob **16-fig. 1**; the display shows the stored site directory;
- select the required site rotating the knob **16-fig. 1** and then press the knob to confirm.

“Site directory”

This key **fig. 78** selected and confirmed by rotating and pressing the knob **15-fig. 1**, displays the WAP site directory screen as shown in **fig. 80**, with the options: “Select” and “Enter”.

“Select”: this key **fig. 80** selected and confirmed by rotating and pressing the knob **16-fig. 1**, gives access to the WAP sites stored in the directory. For each item of the list the display shows the address and the associated name, if stored.

Select the required item by turning and pressing the knob **16-fig. 1**; the display will show detailed info on the selected address and the following icon keys: “Change” and “Delete” **fig. 81**.

“Change”: this key **fig. 81** selected and confirmed by rotating and pressing the knob **16-fig. 1**, allows to change site address and/or name; in this case the display shows the keypad and the editing box for typing the required address; proceed as follows:

- select “Address” and then change the address using the keypad;

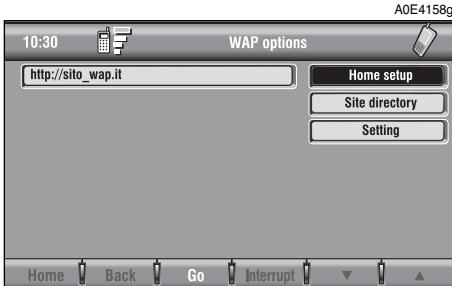


fig. 78



fig. 79



fig. 80

— select “Name” and then change the name using the keypad;

— select “OK” to store changes.

“Delete”: this key **fig. 81** selected and confirmed by rotating and pressing the knob **16-fig. 1**, deletes the selected address.



fig. 81

“Enter”

This key **fig. 80** selected and confirmed by rotating and pressing the knob **16-fig. 1**, allows to enter a new WAP address in the directory; proceed as follows:

— select “Address” **fig. 82** by turning the knob **16-fig. 1** and then press it to confirm; the display shows the keypad and the editing box for typing the required address;

— select “Site directory” **fig. 82** by turning the knob **16-fig. 1** and then press it to confirm; the display shows the keypad and the editing box for typing the required name;

— select “OK” by turning the knob **16-fig. 1** and press it to confirm the entered data, the WAP address will be stored in the WAP site directory.



fig. 82

"Settings"

Settings shall be performed with reference to the information provided by the WAP service provider.

This key **fig. 78** selected and confirmed by rotating and pressing the knob **16-fig. 1**, allows the following:

- to enter WAP provider telephone number, by selecting "Provider phone number" icon **fig. 83**;

- to enter connection line type, by selecting "Connection type", which can be ISDN (numeric) or PSTN (analog);

- to enter IP address, by selecting "IP address" icon;

- to enter IP port, by selecting "IP port" icon;

- log-in user name, by selecting "User name" icon;

- enter the password used to access the WAP service, by selecting "Password" icon;

Any of these keys activates the keypad to be used for entering the required data.

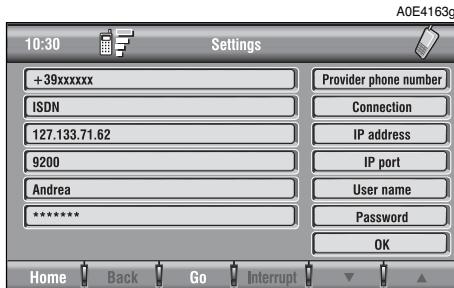


fig.83

"Settings" FUNCTION

Selecting "Settings" by turning and pressing the knob **16-fig. 1**, the display will show **fig. 84** screen and the following icon keys:

"Ringer volume": sets the volume level of the telephone ringer;

"Redial": in case of busy line, redials automatically the called number (for a preset number of times);

"Call forwarding": enables or disables call divert;

"Call forwarding no.": allows input of the phone number to which call is diverted. This key is enabled only if the "Call forwarding" option is active.

“Enable call waiting”: enables or disables incoming call announcement during a call.

“Other Option”: can be used to set the network operator mode, the PIN code, Information and Incognito.

“OK”: to accept and store settings.

When the user modifies the call divert settings, the display shows the dialog box “User information” — “Please wait ...”. A dedicated message will warn the user if settings cannot be changed.



fig. 84

“Other Options” function

Selecting “Other Options” by rotating and pressing the knob **16-fig. 1**, the display shows **fig. 85** screen with the following icon keys:

“Network operator”: to select provider;

“PIN”: for PIN code request at power on;

- if current setting of “Enable PIN request” is “NO”, the display shows “PIN NOT REQUESTED”;

- if current setting of “Enable PIN request” is “YES”, and the current setting of “Recall last PIN” is “YES”, the display shows “Recall PIN – Request PIN”;

- if current setting of “Enable PIN request” is “YES”, and the current setting of “Recall last PIN” is “NO”, the display shows “PIN request”.

“Information”: shows information related to the GSM module (Provider name, IMEI code, etc...).

“Unknown”: enables or disables forwarding of caller telephone number to the called party.

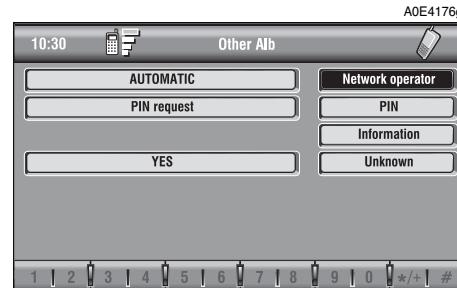


fig. 85

Network Operator

When selected and confirmed, "Network operator" icon allows management of network Providers; the display shows the following icon keys **fig. 86**:

- "Select": to set operator selection modes;
- "Operator": for manual operator choice (which can only be manual or preferential);
- "OK": to accept and store settings.

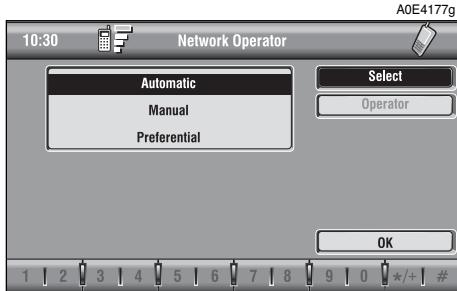


fig. 86

"Select"

When selecting and confirming this key the user has three possible ways to choose the network operator:

— Automatic, **fig. 87**: the system will automatically select the operator. In the event that it is no longer able to provide an adequate GSM field, it will seek another administrator (if the service is provided by the administrator itself). In this case, the "Administrator" graphic key will be OFF.

— Manual **fig. 88**: operator is chosen manually. In this case "Operator" icon key is enabled. If chosen operator is no longer able to provide an adequate GSM field, telephone functions will not be available.

— Preferential: operator is chosen manually. In this case "Operator" icon key is enabled, and if chosen operator is no longer able to provide an adequate GSM field, the system automatically looks for another available operator.

"Operator"

Selecting and confirming "Operator" key, displays the dialog box "User information — "Please wait..." until the operators list is available.

Available operators can be selected in the list.

If network becomes not available, "Network operator" key is disabled.

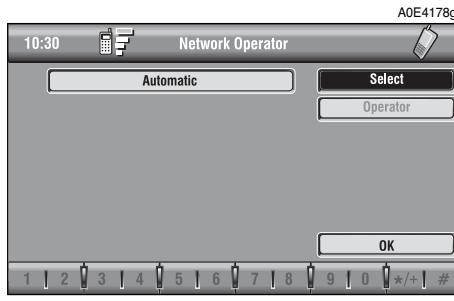


fig. 87

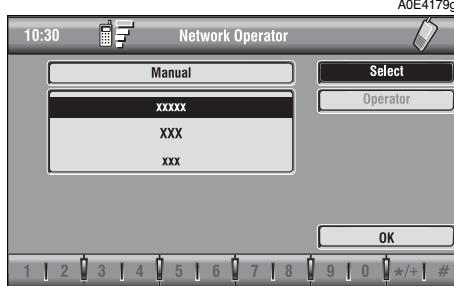


fig. 88

PIN

When selected and confirmed, the "PIN" key enables to enter PIN management menu; after entering the PIN code **fig. 89**, the display shows the following icon keys **fig. 90**:

"Change PIN"

This key enables to enter new PIN code **fig. 91**; proceed as follows:

enter the old PIN code; the user is asked to enter twice the new PIN code ("New PIN 1" and "New PIN 2" fields) and then to confirm. If the user commits a mistake in retying the PIN code, the message "Please retype new PIN" is displayed. In this case restart the entire procedure.

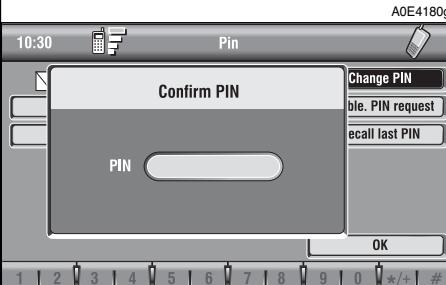


fig. 89

This key is active only if the PIN request is enabled.

"Enable PIN request"

This key enables/disables PIN check on inserted SIM card. To change this setting the system requires the new PIN code.

This setting is saved in SIM card memory.

"Recall last PIN"

This key stores the first PIN entered, sending it automatically to the SIM card when required.

This key is active only if the PIN request is enabled.

This setting is saved in system settings and not in SIM card memory.

"OK": to accept and store settings.

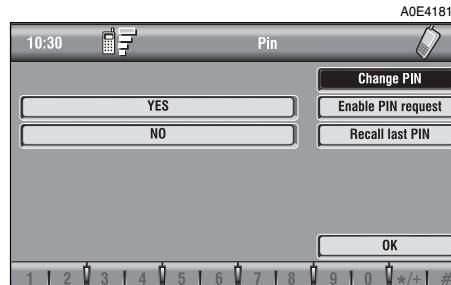


fig. 90

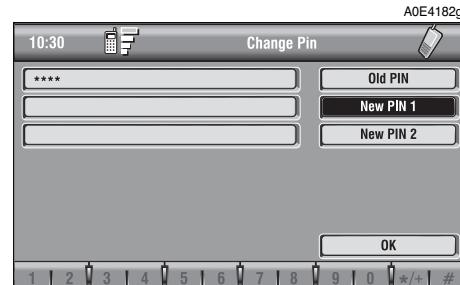


fig. 91

"Information" icon key

"Information" shows information related to the GSM service provider **fig. 92**. Press "ESC" to quit the "Information" screen **15-fig. 1**.

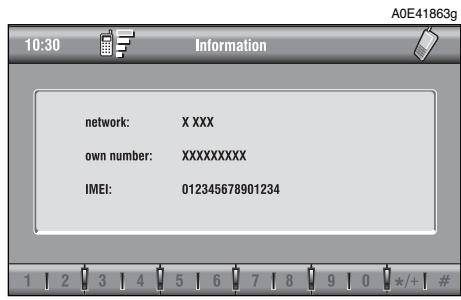


fig. 92

NAVIGATOR (NAV)

GENERAL INFORMATION

The navigator integrated in the radio-navigation system allows you to reach the chosen destination by visual and voice instructions. Use of the radio-navigation system is quick, convenient, safe and above all very flexible because it allows you to call up already programmed destinations or points of reference such as hotels, monuments, public structures, fuel stations.

The car position is determined through the GPS system (Global Positioning System) installed on the car. The GPS system is fitted with an antenna and a reception module integrated in the telematic system. This system configuration dynamically processes the satellite signals, those from the right and left odometer, the reversing signal and the information of the gyroscope integrated in the navigation computer, integrating them with the current position of the car to obtain an "estimated car point".

The navigation system helps the driver while he/she drives by suggesting vocally and graphically the optimum routing to reach the preset destination.

The navigation system suggestions do not exempt the driver from full responsibility due to his/her driving behaviour and to compliance with road and other traffic regulations. The responsibility for road safety always and in any case lies with the car driver.

IMPORTANT NOTES

- GPS reception is difficult under trees, among tall buildings, in multi-level car parks, tunnels and everywhere reception of the satellite antenna may be hindered.
- The GPS system needs about 15 minutes for activation if the car battery is disconnected.
- The GPS system needs a few minutes to determine the new position of the car if it is turned off and the car is moved with the system off (e.g.: on ferryboat).
- The GPS satellite aerial must not be covered with metal or damp objects.

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

IMPORTANT NOTES

— Accurate self-adjustment of the navigation system requires approx. 100 km of travel the first time and when tyres are changed; during this stage the calculated position could be less accurate.

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

The navigation system is completely managed by the telematic system, therefore the only operations that may be required are replacement of the CD-ROM to set the map of another area or an updated map.

Access to the navigation main functions is gained by short push on key **4-fig. 1**, whereas a long push (over 2 seconds) on the same key will activate the NAV MUTE function: navigation voice instructions will be unavailable. To activate again voice instructions, press again button **4-fig. 1** for over 2 seconds.

When the system is switched on, the display will, upon the first selection of the navigating function, show the instructions for using the system. The text will be as follows:

"The ALFA navigation system guides you in traffic and helps you reach your destination. Comply with all local traffic regulations, which take precedence over the manoeuvres indicated by the navigation system. Full responsibility for operating the vehicle and observing all traffic regulations lies with the driver".

This page will not be displayed as long as the key is into the ignition switch.

SCREEN OPTIONS AND FUNCTIONS

The main information and functions provided and managed by the navigation system are:

- GPS signal symbol which differs in colour depending on the quality of reception ;
- voice and visual instructions with indications of distance from the destination and planned arrival time;
- detailed map in different colours and with different scales to clearly show the car position, route and destination;
- customisation of the navigation system with possibility of entering pre-memorised destinations;
- automatic memorising of the last 10 destinations;
- name of current street;
- possibility to choose the route according to personal preference;
- information on current position;
- information on arrival time.

If the system contains a wrong CD-ROM, an audio CD or no CD, whenever the system asks for the navigation CD-ROM for route calculation or map up-date, the insertion prompt will appear on the display.

Should a CD be inserted in the wrong side, the display will show the message "CD ERROR". In this event, eject the CD and re-insert it properly.

GRAPHIC INSTRUCTIONS

The operations to be performed will be displayed by means of arrows or pictograms on the main page of the navigating function.

The downward graphic symbol represents next manoeuvre (turn left, right, straight on, U-turn) while the upward graphic symbol represents the next one. The number displayed under the graphic symbol indicates the car distance from the manoeuvre point.

VOICE INSTRUCTIONS

The voice instructions provided by the system guide you to your destination and suggest all manoeuvres to be carried out in due time: in particular, the manoeuvres are announced first and then detailed instructions are given.

To repeat the last voice instruction, briefly press button NAV **21-fig. 1** or **4-fig. 1**.

To adjust the volume turn the knob **16-fig. 1** during voice instruction.

If required, press again button NAV **21-fig. 1** or **4-fig. 1** to repeat the last voice instruction and to adjust the volume.

NAVIGATION CD-ROM PLAYER

The navigation CD-ROM player **19-fig. 1** is located on the radio-navigation system front panel and it is the same used for audio CDs. Therefore, it is not possible to use the audio CD player and the navigation CD-ROM player at the same time. The radio-navigation system can however operate partially even without inserting the navigation CD-ROM.

In this case, when pressing key ▲ **8-fig. 1** to remove the CD-ROM with navigation function engaged (to then insert an audio CD), the following two cases may occur:

1) If no route has been calculated, when ejecting the CD ROM only the information on the car position (coordinates) **fig. 94** will be available.

2) The route previously calculated is still valid, the system provides the user with any instruction to reach the destination.

If the route previously calculated is still valid, the system will show the screen in **fig. 95**.

If the user selects and confirms "YES", the system will store the navigation data required to reach the set destination; this operation requires a few seconds and the display will prompt the message to wait **fig. 96**.

After loading, the CD-ROM is ejected and the system restarts its navigation function with the maximum scale of "2 km"; therefore it may be possible that not all of the route is visible.

If the user selects and confirms "NO", route guide will be deactivated and the display will go back to screen in **fig. 94**.

Moreover, navigation in these conditions involves limitations and therefore some functions and commands will not be available. Also information shown on the map will be limited.



fig. 94

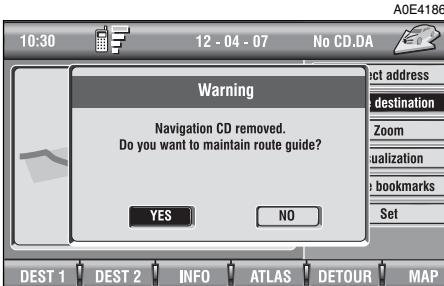


fig. 95



fig. 96

When the navigation system is no longer able to continue destination guidance or the car is now out of the loaded map section, the system prompts for inserting the navigation CD-ROM **fig. 97**. If the user does not insert the CD-ROM, the system returns to the status shown in **fig. 94**.

IMPORTANT

The driver is always responsible for compliance with the enforced traffic regulations: any indication based on wrong map data leading to unauthorised driving manoeuvres MUST NOT be followed.

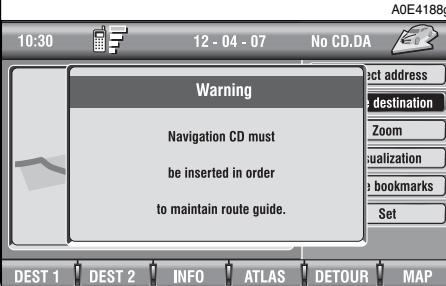


fig. 97

MAIN SCREEN

Main navigator screen **fig. 98** shows the following information:

- Time.
- GSM signal strengths.
- Date.
- Audio info.
- Active mode.
- Car position on the map (icon).
- Map scale.



fig. 98

At the bottom of the screen are displayed the following options, that can be activated by the corresponding multifunction keys **17-fig. 1**:

DEST 1 and **DEST 2**: start route calculation towards one of the two predefine or frequently used destinations. If no point has been defined as "Dest 1" or "Dest 2", a warning reminds the user that the function is not available.

INFO: displays info on car position and destination.



fig. 99

The display will show the following information **fig. 99**:

- compass representation indicating the car position (in degrees) with reference to the North;
- longitude, latitude and height;
- visible satellites number;
- destination (available only with navigation on);
- time of arrival and distance to destination (available only with navigation on).

Pressing "ESC" **15-fig. 1** or **4-fig. 1** takes back to the main navigation screen.

ATLAS: enables map drawing in atlas mode (for further details see the relevant paragraph "ATLAS").

DETOUR: allows the user to choose (if possible) an alternative route to reach the selected destination, avoiding a specified portion of the currently calculated route.

To activate this function, select the route portion to be avoided **fig. 100** by turning the knob **16-fig. 1** and pressing it to confirm.

The display will then show the new distance and the time necessary to reach the destination **fig. 101**.

Selecting and confirming "YES" or "NO" by turning and pressing the knob **16-fig. 1**, the user can accept or reject the new route.

If there is no alternative route, then the display shows "No alternative route" **fig. 102**.

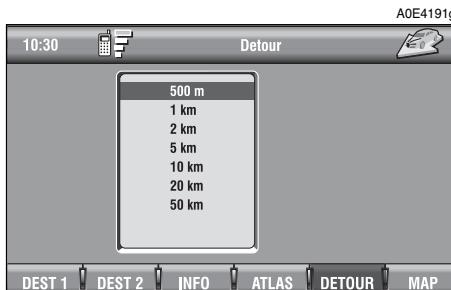


fig. 100

MAP: activates the MAP mode. The display shows map, route (if present), car position (town and street names), icons of next two crosses (only if route is present) **fig. 103**.

To modify the map scale, proceed as follows:

- turn the knob **16-fig. 1** and select the required scale;
- press the knob **16-fig. 1** to confirm.

When you approach a crossroads, the map will be replaced with an enlargement of the surrounding area **fig. 104** (crossroads zoom function, if actuated in "map preference").

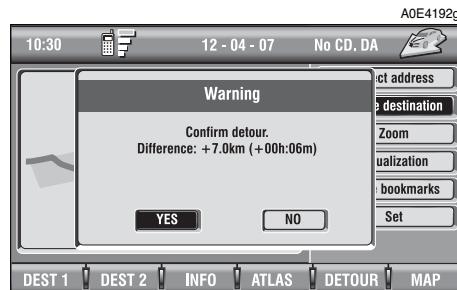


fig. 101

Right vertical bar icons are:

Select address: lets the user select a geographical point (through address, directory...).

Delete destination: to delete current destination.

Zoom: allows change of map scale. Push on the icon key shows available scales (50m ÷ 200km).

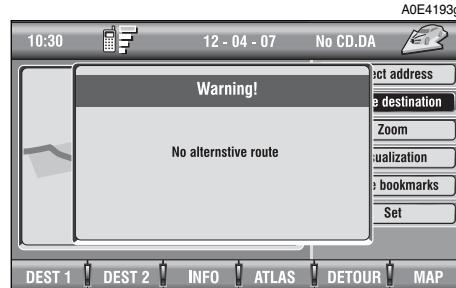


fig. 102

If the user has enabled the 50m option, the system displays the symbols indicating one way streets.

If the user arrives near a cross and cross zoom function is enabled, the system provides cross zoom as shown in (see paragraph "Map options").



fig. 103



fig. 104

If the Bird View function is active, the scale concept is no longer valid since in this case it is considered the distance between the car and the displayed horizon (see paragraph "Map Options").

The car-horizon distance can have the following values: 3km, 6km and 15 km **fig. 105**.

Visualisation: allows map visualisation to be changed between the following parameters:

- Map;
- Whole route;
- Highway info;
- Graphic symbols.



fig. 105

Voice bookmarks: controls navigator voice directory:

- Hear voice phonebook
- Delete voice phonebook

Settings: used to set map visual parameters, route type and sound setting

SELECT ADDRESS

Selecting and confirming “Select address” in the main menu by rotating and pressing the knob **16-fig. 1** will display the screen in **fig. 107**.

The available icons are:

Address: to select a point through an address.

Points of interest: to select a “point of interest” by the relevant submenu.

Last destinations: to select a point from the list of previous destinations.

Directory: to select a point from the navigator directory.

RDS-TMC: to select a point from the RDS-TMC generated “list of events”.

Dest 1: to select as destination, to delete or to display the point stored as “Home 1”;

Dest 2: to select as destination, to delete or to display the point stored as “Home 2”;

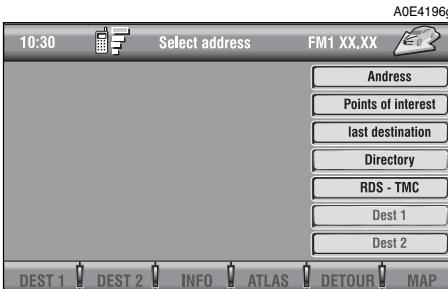


fig. 106

ADDRESS

Selecting and confirming "Address" (from the first page of the menu) by rotating and pressing the knob **16-fig. 1**, the display shows a submenu with the following options: "Place name", "Street", "Street number", "Intersection", "Calculate route" and "Other options" **fig. 107**.

"Place name"

To enter the place name (destination town), select and confirm "Place name" by rotating and pressing the knob **16-fig. 1**, the display will show the screen for entering the name, the keypad, the editing box and the list of available places.

IMPORTANT If current place name is available, the corresponding description will be displayed near the place name setting field; the user can however change it if it is not corresponding to the required point.

To input characters, select them on the keypad by rotating the knob **16-fig. 1**, then press it to confirm.

If the combination of two characters (alphabetical letter + symbol) is possible, the two characters are automatically unified into their corresponding single character: for example, if the user selects **E** and then **~** the two characters are replaced with **È**. Blank and **,** **-** **_** **'** **(** **)** are word separator characters.

After selecting the place name, press the knob **16-fig. 1** to go to next page to enter the street name; Pressing "ESC" **15-fig. 1** gets to previous screen without setting the new place name.

"Street"

Destination street name is obtained after entering the place name. Select "Street" by rotating the knob **16-fig. 1** and then press it to confirm.

To input street name characters, select them on the keypad by rotating the knob **16-fig. 1** and press it to confirm.

If in place of "Street" the user specifies **"()"**, it means "downtown" and so neither "Street number" and "2nd street" must be input.

The navigation system always guide you downtown in case of small towns.

After selecting the "Street" name, press the knob **16-fig. 1** to go to next page to enter the street number; Pressing "ESC" **15-fig. 1** gets to previous screen without setting the street name.



fig. 107

"Street number"

Destination street number is obtained after entering the street name. Select "Street number" by rotating the knob **16-fig. 1** and press it to confirm.

To input digits select them on the keypad by rotating the knob **16-fig. 1** and then press it to confirm.

If no street number is entered, the system will take as a reference the street number closest to the car in a straight line.

Then, select OK using the keypad and press the knob **16-fig. 1** to confirm.

"Intersection"

This option is used to enter the name of a second street that intersects the first entered street, so that the selected destination is the intersection between the two streets.

The second street name can be entered, after entering the place name and the first street name. Select "Intersection" by rotating the knob **16-fig. 1** and press it to confirm.

To input the 2nd street name characters, select them on the keypad by rotating the knob **16-fig. 1** and then press it to confirm.

After selecting the "Intersection" press the knob **16-fig. 1**.

"Calculate route"

This option will activate route calculation to the required destination.

If a destination is already set, the system will ask for confirmation before changing destination

"Save"

This function is used to store the selected address into the navigation system directory and to associate it to a name for easy retrieval **fig. 108**.

The name to be associated with the destination can be entered, after selecting and confirming "Name" by rotating and pressing the knob **16-fig. 1**.

IMPORTANT When selecting "Name", remember that it is not possible to add a name already present in the Telephone (TEL) function directory.

To enter the characters simply select them one by one by rotating the knob **16-fig. 1** and press it to confirm.



fig. 108

Then, select OK using the keypad and press the knob **16-fig. 1**.

The “Voice recognition” key allows to associate a voice sample to a destination stored in the directory. Symbol “√” at the left of the key shows if a sample has already been associated. Selecting and confirming “Voice recognition” will display the screen in **fig. 109**:

“New voice command”: allows recording of a new voice sample. User is invited to pronounce twice the name to be recorded.

“Delete voice command”: allows deletion of a previously recorded voice sample. If there is no sample, this key is disabled.

“Listen to voice command”: reproduces a previously recorded voice sample. If there is no recorded sample, this key is disabled.

To select the required function, rotate the knob **16-fig. 1** and press it to confirm.

– **Dest 1** and **Dest 2** store the selected point in the relevant memories.

If a point has already been previously stored as “Dest 1” or “Dest 2”, a warning box asks the user for confirmation about substitution.

Pressing Dest 1 or Dest 2 **17-fig. 1** and then the knob **16-fig. 1** to confirm, will start route calculation to the destination stored in Dest 1 or Dest 2.

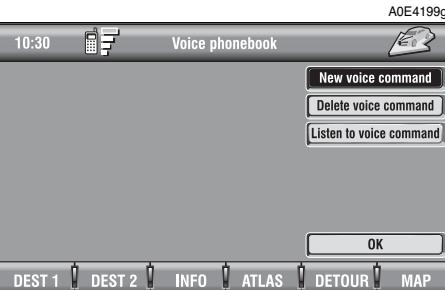


fig. 109

POINTS OF INTEREST

This function is used to obtain a file containing the location and information on points of general interest such as, for example, restaurants, museums, stations etc., divided by category.

Selecting "Points of interest" rotating and pressing the knob **16-fig. 1**, the display will show the following menu **fig. 110**:

- Near car
- Near destination
- Near address
- Name.

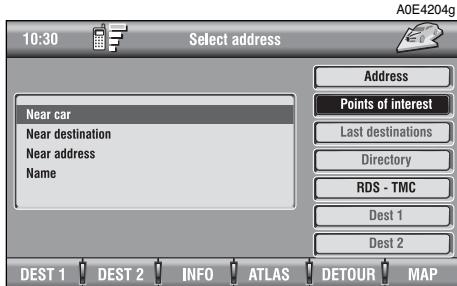


fig. 110

"Near car"

"Near car" allows the user to find the services near the current car position.

"Category" allows service category selection in the system data-base using the keypad.

By selecting the "Service list" graphic key, the display will show the list of the available services in connection with the specified class, and will also indicate the name of the service, the distance (as the crow flies), and an icon with the direction **fig. 111**. The list can be run through by turning knob **16-fig. 1**: the choice can be confirmed by pressing the knob.

After selecting a "point of interest", the display shows the following options:

"Calculate route": to start navigation;

"Other options": the display will show a screen with the following options: Directory, Dest 1 and Dest 2, previously described in paragraph "Address".

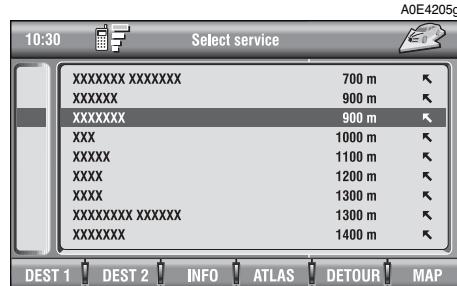


fig. 111

"Near destination"

This function enables to find the required services near the selected destination. The available options are "Destination", "Category" and "List of services" **fig. 112**.

After selecting the destination and selected service, information can be obtained and the service can be located using "Info" and "Atlas". Select "Calculate route" by rotating the knob **16-fig. 1** and then press it to confirm selection.



fig. 112

"Near address"

This is used to identify the services sought nearest to the address set. The available options are "Category", "Place name", "Street", "Street number" and "List of services" **fig. 113**.

After selecting the required service, associated information and location may be obtained using "Info" and "Map". Select "OK" by rotating and pressing the knob **16-fig. 1** to confirm selection.



fig. 113

"Name"

Service selection by "Name" is used to select a known service as the destination by entering "Category", "Place name" and "Service name" **fig. 114**.

After confirming the selected service, associated information and location may be obtained using "Info" and "Atlas". Select "Calculate route" by rotating and pressing the knob **16-fig. 1** to confirm selection.



fig. 114

LAST DESTINATIONS

"Last destinations" key is used to get the list of last inserted destinations (maximum 10). At each route calculation, the destination is automatically inserted in the list. Selection of a destination from that list is done by rotating and pressing the knob **16**-**fig. 1** to confirm. When the choice has been expressed, the location is shown on the map. Pressing the knob **16**-**fig. 1**, the user will be able to use the point as a destination, to enter it in the directory, to set it as Dest 1 or Dest 2, or to locate it.

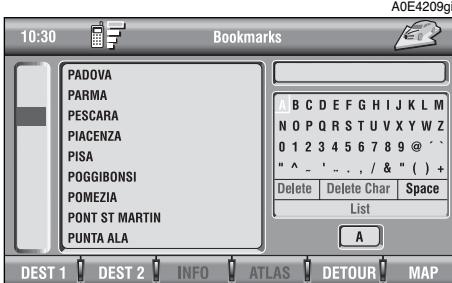


fig. 115

BOOKMARKS

"Bookmarks" key enables to select a point from those stored in the directory **fig. 115**. If the list contains more than 9 destinations, the display will show the screen in **fig. 116**. Selecting "List", the keypad disappears and the required destination can be selected directly.

The available options are the following:

"Calculate route": allows the use of the point as already described **fig. 117**.

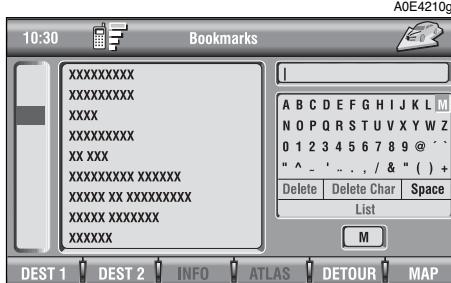


fig. 116

"Change": modifies the Name associated to the point and allows insertion/change/deletion of a voice sample associated to the entry **fig. 118**.

"Delete": deletes entry.



fig. 117



fig. 118

RDS-TMC

Select this function by rotating the knob **16-fig. 1** and then press it to confirm.

The display shows the following options **fig. 119:**

- Near car;
- Near address.

"RDS-TMC" icon allows the user to select a geographical point to get related RDS-TMC information: RDS-TMC events are pictured through dedicated icons on the map. A TMC event cannot be used to identify a destination.

IMPORTANT TMC information can be displayed provided that the following two conditions take place: 1) the active radio station provides such service; 2) the same station transmits messages next to the point shown.

The icons (continuously updated) shown on the map are shown below, if the relevant option on "Map Preference" has been enabled with the following meaning:

- | | |
|--|------------------------------|
| | 1. Queue. |
| | 2. Accident. |
| | 3. Generic danger. |
| | 4. Works in progress. |
| | 5. Closed road. |
| | 6. Narrow road. |
| | 7. No entry road. |

- | | |
|--|--|
| | 8. Slippery road. |
| | 9. Ice / snow. |
| | 10. Fog. |
| | 11. Wind. |
| | 12. Procession, protest. |
| | 13. Danger of explosions. |
| | 14. Slow down. |
| | 15. Traffic signs out of order. |
| | 16. Parking. |
| | 17. Forecast. |



fig. 119

"Near car"

"Near car" option enables to get information on events near the current car position.

The menu **fig. 120** includes the following keys:

"Category": specifies the event category: "Traffic", "Weather", "Info", "All".

"List of events": to open the event list and to choose the event of interest.

"Info": press **17-fig. 1** to get info about the selected event.

To select the required function, rotate the knob **16-fig. 1** and then press it to confirm.



fig. 120

"Near address"

"Near address" enables to get information on events near a specific address. The following functions are available **fig. 121**:

"Category": specifies the event category: "Traffic", "Weather", "Info", "All".

"Place name", "Street", "Street number": inputs resort address.

"List of events": opens the event list and choose the event of interest.

"Info": press **17-fig. 1** to get info about the selected event.

To select the required function, rotate the knob **16-fig. 1** and then press it to confirm.



fig. 121

Dest 1 - Dest 2

Selecting and confirming "Dest 1" or "Dest 2" by rotating and pressing the knob **16-fig. 1**, will display information about the points stored as "Dest 1" or "Dest 2" **fig. 122**.

The following options are available for both functions:

- "Calculate route": to start route calculation to the point in Dest 1 (Dest 2);

- "Delete": to delete from Dest 1 (Dest 2) the selected point.

To select the required function, rotate the knob **16-fig. 1** and then press it to confirm.



fig. 122

DELETE DESTINATION

Select and confirm "Delete destination" by rotating and pressing the knob **16-fig. 1** to delete the last entered destination.

VISUALIZATION

When in the main navigation screen, select the Visualisation option by turning knob **16-fig. 1** and confirm by pressing the knob.

This function allows to choose the desired map display by means of the following options **fig. 123**:

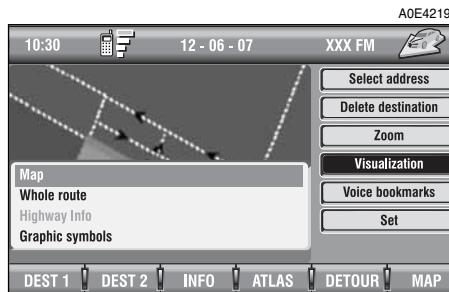


fig. 123

Map: displays the map centered with respect to the car position (standard map).

Whole route: displays the entire calculated route from the present position to the destination **fig. 124**. This option is available only if a route is active.

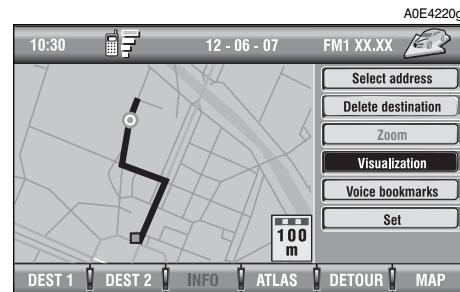


fig. 124

Highway Info: provides information about next two gas stations and highway exits **fig. 125**. This option is enabled only if the car is on a highway and a route has been previously calculated. If the car gets out from the highway, the system gets back to "Map" view.

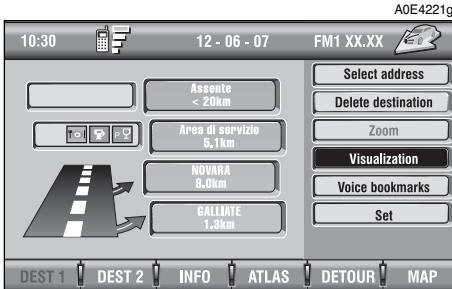


fig. 125

Graphic symbols: displays navigation icons only **fig. 126** and not the map. This option is enabled only if a route has been previously calculated.

To select the required function, rotate the knob **16-fig. 1** and press it to confirm.

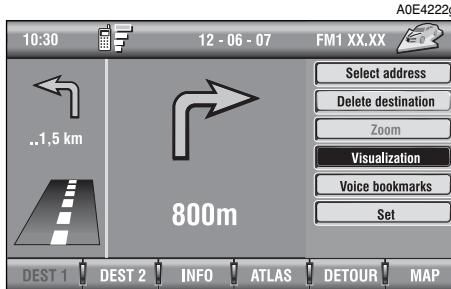


fig. 126

VOICE BOOKMARKS

To select "Voice bookmarks" rotate the knob **16-fig. 1** and then press it to confirm. This function enables to control navigator voice directory.

The following options are available **fig. 127**:

"Listen V. Ph/Book": allows playback of all the previously recorded voice samples associated to navigator directory items. Press "ESC" **15-fig. 1** to stop playback.

"Delete V. Ph/Book": deletes all the previously recorded voice samples. Press the knob **16-fig. 1** to confirm deletion; press "ESC" **15-fig. 1** to exit the menu.

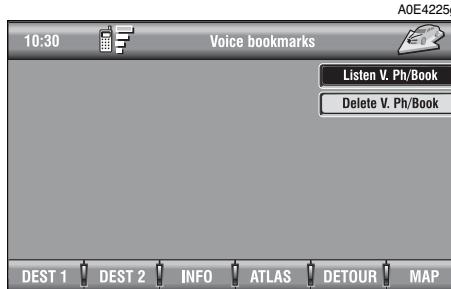


fig. 127

ATLAS

Pressing one of the multifunction keys **17-fig. 1** corresponding to "Atlas" will display a map where the destination is identified by a cross-shaped cursor.

Then the icons (continuously updated) will follow, which will be displayed on the map (if the corresponding option in "Mar preference" has been actuated) with the meaning below:

There are three available icon keys:

↔: press the corresponding multifunction key **17-fig. 1**, a rotation of the knob **16-fig. 1** will move the cross cursor horizontally;

↑: press the corresponding multifunction key **17-fig. 1**, a rotation of the knob **16-fig. 1** will move the cross cursor vertically;



fig. 128

ZOOM: pressing one of the corresponding two multifunction keys **17-fig. 1**, the list of the available scales is shown; to select the required scale rotate the knob **16-fig. 1** and press it to confirm.

When a geographical point is selected on the map, by moving the cross-shaped cursor and pressing the knob **16-fig. 1**, the display will show the screen in **fig. 128** with the following options: Calculate Route, Directory, Service Info, Locate, RDS-TMC, Dest 1, Dest 2.

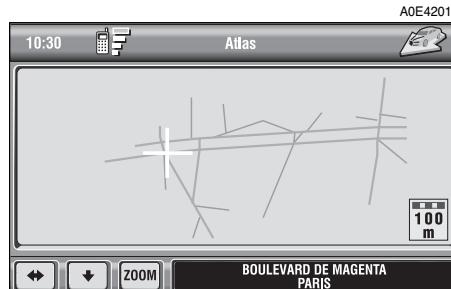


fig. 129

— Calculate Route

Selecting and confirming "Calculate Route" by rotating and pressing the knob **16-fig. 1**, will activate route calculation to the required destination. If a destination is already set, the system will ask for confirmation before changing destination.

— Bookmarks

This option may be used to store a selected point in the navigation phone book and associate it with a name (e.g. Home), so that it may be called up easily. The name to be associated with the destination can be entered, after selecting and confirming "Name", by rotating and pressing the knob **16-fig. 1**.

IMPORTANT When selecting "Name", remember that it is not possible to add a name already present in the Telephone (TEL) function directory.

To enter the characters simply select them one by one by rotating and pressing the knob **16-fig. 1**.

Then, select OK using the keypad and press the knob **16-fig. 1**.



fig. 130

The "Voice recognition" key allows to associate a voice sample to a destination stored in the directory. Symbol "✓" at the left of the key shows if a sample has already been associated.

Selecting and confirming "Voice recognition" will display the screen in **fig. 130**:

"New voice command": allows recording of a new voice sample. User is invited to pronounce twice the name to be recorded.

"Delete voice command": allows deletion of a previously recorded voice sample. If there is no sample, this key is disabled.

"Listen to voice command": reproduces a previously recorded voice sample. If there is no recorded sample, this key is disabled.

To select the required function, rotate the knob **16-fig. 1** and then press it to confirm.

— Service Info (available only by selection from "Atlas"): shows information about a "service" selected on the map **fig. 131**.

— Locate (available only by selection from "Atlas"): shows the car position on the map. All keys are disabled and an arrow identifies the car position. Car orientation (arrow direction) can be modified by rotating and pressing the knob **16-fig. 1**.



fig. 131

RDS-TMC (available only by selection from "Atlas"): shows information about the "RDS-TMC" icon selected on the map **fig. 132**.

— **Dest 1** and **Dest 2**: store the selected point in the relevant memories.

If a point has already been previously stored as "Dest 1" or "Dest 2", a warning box asks the user for confirmation about substitution.

Pressing Dest 1 or Dest 2 **17-fig. 1** and then the knob **16-fig. 1** to confirm, will start route calculation to the destination stored in Dest 1 or Dest 2.



fig. 132

SETTINGS

When in the main navigation screen, select the Settings option by turning knob **16-fig. 1** and confirm by pressing the knob.

The following keys are available:

- Volume
- Map preferences
- Route options

Volume

Used to adjust the volume of voice information supplied by the system.

To increase/decrease the volume, turn knob **15-fig. 1** and confirm by pressing.



fig. 133

Map options

To select "Map options", rotate the knob **16-fig. 1** and then press it to confirm.

This function allows set up of map displaying with the following options **fig. 134**:

Draw map: to set map orientation:

- "Oriented towards north": map is displayed North-oriented, cursor (car) moves accordingly;
- "Oriented automatically": cursor (car) is displayed in central position and the map is oriented according to car direction.

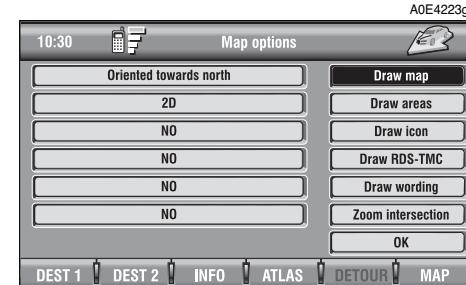


fig. 134

— “Bird view”: the map is oriented according to car direction. With perspective towards the horizon, the point of view is set behind the car at a certain height and preset angle.

This option, if active, will force the following submenu options: ddraw areas (forced at 2D), draw icons (forced at NO), draw RDS-TMC (forced at NO).

Draw areas: allows to set the map through two different options:

— “2D”: the map is shown by segments and coloured areas;

— “NO”: the map is shown by graphic segments only.

Draw icon: enables or disables (“NO”) the display of icon category (e.g.: hotels, restaurants, service stations, etc.) on the map;

Draw RDS-TMC: enables or disables (“NO”) the display of the icons related to RDS-TMC category (if available): Traffic, Weather, Info etc..., on the map;

Draw wording: enables (“YES”) or disables (“NO”) the indications of the places names (town, etc..) on the map;

Zoom intersection: enables (“YES”) or disables (“NO”) the zoom intersection option, i.e. whether to zoom the map when car approaches an intersection;

OK: activates settings.

Route options

“Set route” allows to define the route calculation parameters.

When selecting this function by rotating the knob **16-fig. 1** and pressing it to confirm, the display shows the following options **fig. 133**:

— Route type

Selecting and confirming “Route type” by rotating and pressing the knob **16-fig. 1**, makes it possible to set the route calculation criteria according to two different modes: “Shortest time” or “Shortest distance”.

— Ferries

Select the Ferries key by turning knob **16-fig. 1** and confirm by pressing the knob to determine whether or not the route may or may not include ferry crossings.

— Highway

Select and confirm “Highway” by rotating and pressing the knob **16-fig. 1** to define if route can include highway segments or not.

To activate set calculation parameters, select icon “OK” turning the knob **16-fig. 1** and pressing it to confirm.

ON-BOARD COMPUTER (TRIP)

GENERAL INFORMATION

The on-board computer provides a series of helpful data relevant to current travel (e.g.: times, distances, speed, fuel consumption). Certain information is only available with navigation function on and depends on set navigation route.

IMPORTANT Certain information/operations hereafter described are available/possible only with the key fitted into the ignition switch.

TRIP menu allows to set the desired distance and fuel consumption measure unit.

TRIP menu also allows to input a number of events (e.g. Tyre replacement..., Birthday...) that can be triggered both on set date or mileage.

To display on-board computer screen, press "TRIP" key **2-fig. 1**.

To perform new settings or to have information about TRIP settings, press keypad **17-fig. 1** buttons: "TRIP A", "TRIP B", "SPEED", "SETUP", "INFO" or "RESET".

"TRIP A" and "TRIP B" FUNCTION

Press the TRIP key **2-fig. 1** on the radio-navigation system front panel to open the "Trip A" screen **fig. 138**.

With "Trip A" screen open, pushing one of the keypad buttons **17-fig. 1**, on "TRIP B" will open the relevant screen.

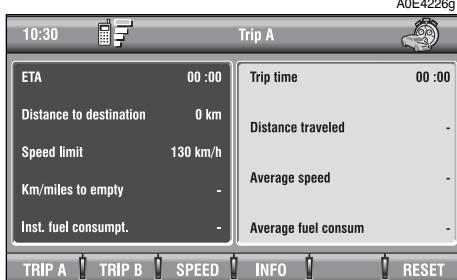


fig. 138

Information displayed on "Trip A" **fig. 138** and "Trip B" **fig. 139** screen are the following:

- ETA (Estimated Time of Arrival)
- Distance to destination
- Speed limit
- km/miles to empty
- Inst. fuel consumpt.
(instantaneous fuel consumption)
- Trip time (*)
- Distance traveled (*)
- Average speed (*)
- Average fuel consum (*)

Information marked with (*) are resettable (refer to paragraph "TRIP: Reset").

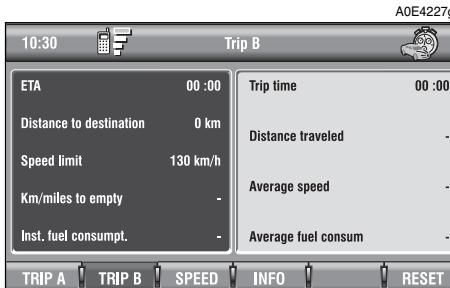


fig. 139

With "Trip A" screen open, pressing one of the keypad keys **17-fig. 1**, on "RESET" will reset data marked with (*) present on both Trip A and Trip B.

With "Trip B" screen open, pressing one of the keypad keys **17-fig. 1**, on "RESET" will reset only data marked with (*) present on Trip B.

When the "Trip B Auto" screen is open, the screen shown on **fig. 140** will appear: TRIP B data cannot be reset in this screen.

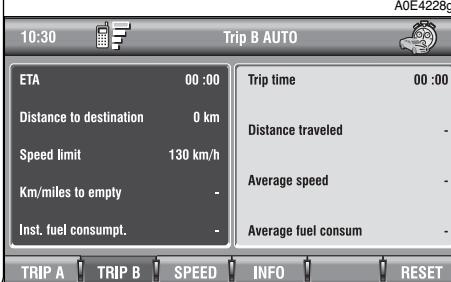


fig. 140

"ETA" (Estimated Time of Arrival)

This information is present only when the navigation function is on and indicates the expected time of arrival to destination. Time is expressed in "hh:mm" (hours and minutes).

"Distance to destination"

This information is present only when the navigation function is on and indicates the distance between current position and the destination set. Distance value is expressed in "km" (kilometres) unless otherwise set by the user (see paragraph "SETUP").

"Speed limit"

This function is used to set car speed limit; if this is exceeded the driver is warn by a buzzer and a display warning message on the instrument panel.

"Km/miles to empty"

This shows the distance that the car can still cover before needing fuel. This value is the same for both "Trip A" and "Trip B". Value is expressed in "km" (kilometres) unless otherwise set by the user (see paragraph "TRIP: SETUP").

"Inst. fuel consumpt."

This shows the fuel consumption of the car while driving and is therefore helpful for learning the fuel consumption in relation to the driving style adopted. This value is the same for both "Trip A" and "Trip B". The value is expressed in "l/100 km" (litres per 100 kilometres) unless otherwise set by the user (see paragraph "TRIP: SETUP").

"Trip time"

This shows the time elapsed (travel time) since the last manual reset of the on-board computer ("TRIP: RESET" function). The value is expressed in "hh:mm" (hours and minutes).

"Distance traveled"

This shows the distance traveled by the car from the last manual reset of the on-board computer ("TRIP: RESET" function). The value is expressed in "km" (kilometres) unless otherwise set by the user (see paragraph "TRIP: SETUP").

"Average speed"

This shows the average speed of the car calculated from the last manual reset of the on-board computer ("TRIP: RESET" function). The value is expressed in "km/h" (kilometres per hour) unless otherwise set by the user (see paragraph "TRIP: SETUP").

"Average fuel consum"

This shows the average consumption of the car calculated from the last manual reset of the on-board computer ("TRIP: RESET" function). The value is expressed in "l/100 km" (litres per 100 kilometres) unless otherwise set by the user (see paragraph "TRIP: SETUP").

TRIP: SPEED

Pressing one of the keypad keys **17**-**fig. 1**, on "SPEED" **fig. 138 - 139**, displays **fig. 141** screen showing the current status of "Speed limit" function (ENABLED or DISABLED) and the set speed limit.

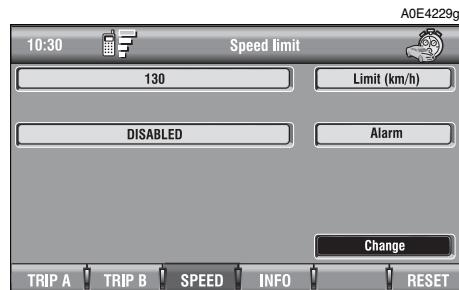


fig. 141

To change any set data, select "Change" icon; a screen with the following functions is displayed **fig. 142**:

- "Limit" (km/h or mph, according to set unit);
- "Alarm";
- "OK".

IMPORTANT The above listed settings can only be changed with the electronic key inserted in the ignition device. With the electronic key removed from the ignition device, all attempts to make a change will be denied and the message "Setup change failed" will appear on the display.

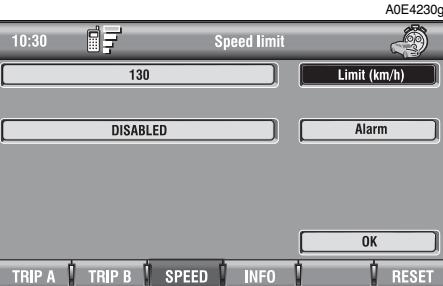


fig. 142

"Limit (km/h or mph)"

Select "Limit (km/h or mph)" with the knob **16-fig. 1** and press it to confirm. Rotate the knob **15-fig. 1** to change the set speed limit by steps of 5 km/h (or mph according to set unit). Press the knob **16-fig. 1** to confirm.

"Alarm"

The "Alarm" function enables/disables warning indication when set speed limit is exceeded.

To enable/disable this function, select and confirm "Alarm" by rotating and pressing the knob **16-fig. 1**. The display will show: "ENABLED" or "DISABLED".

"OK"

To confirm selected options, select "OK" with the knob **16-fig. 1** and then press it.

TRIP: SETUP

The "SETUP" function enables to change the units of measure relevant to distance, speed and fuel consumption.

Pressing one of the keypad keys **17-fig. 1**, on "SETUP" **fig. 138 - 139**, will show **fig. 143** screen which shows the settings in use.

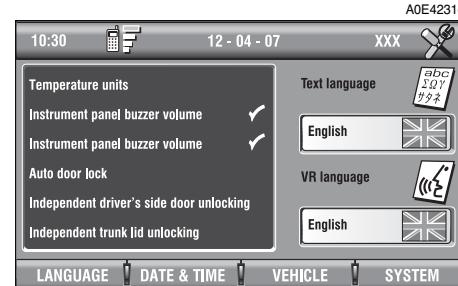


fig. 143

— Select one of the three multifunction keys **17-fig. 1** corresponding to the SYSTEM string to display the screen for changing certain settings.

— Select “Units” icon key with the knob **16-fig. 1** and then press it to confirm.

To change any set data, select “Change” icon; a screen with the following functions is displayed **fig. 144**:

- “Distance units”;
- “Consum. units”;
- “Celsius/Fahrenheit”;
- “OK”.

IMPORTANT Changes can only be performed with the key fitted into the ignition switch and the car stopped. With ignition key removed any attempt to enter changes is rejected and the display will show message “Setup change failed”.

IMPORTANT It will not be possible to set measures both in metric system and in British system.

If the “Distance units” set is expressed in km (kilometres), “Consum. units” (consumption units) shall be expressed in l/100 km or km/l.

If the “Distance units” set is expressed in mi (miles), “Consum. units” shall be compulsorily expressed in mpg (miles per gallon).

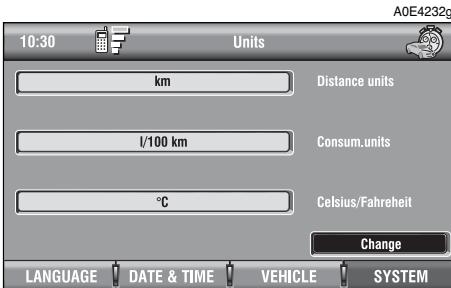


fig. 144

"Distance units"

Select "Distance units" icon with the knob **16-fig. 1**. Press the knob **16-fig. 1** to change unit between km (kilometres) and mi (miles).

"Consum. units"

Select "Consum. units" icon with the knob **16-fig. 1** and press it to confirm. Rotate the knob **16-fig. 1** to change unit between l/100 km, km/l and mpg (see previous specifications). Press the knob **16-fig. 1** to confirm.

"Celsius/Farhenheit"

The Celsius/Farhenheit function enables to choose the required temperature unit: °C (Celsius) or °F (Farhenheit). To change setting, select and confirm "Celsius/ Farhenheit" by turning and pressing the knob **16-fig. 1**.

"OK"

To confirm selected options select "OK" with the knob **16-fig. 1** and then press it.

For further details about the "SETUP" function see the corresponding chapter.

TRIP: INFO

Pressing one of the keypad keys **17-fig. 1**, on "INFO" **fig. 138 - 139**, displays **fig. 145** screen showing the following functions:

- "Maintenance Info";
- "Personal info".



fig. 145

"Maintenance info" function

The "Maintenance Info" function provides information related to next Scheduled Service in km or mi.

To display the required information, select "Maintenance Info" with the knob **16-fig. 1** and press it to confirm; screen in **fig. 146** is displayed.



fig. 146

"Personal info" function

"Personal info" function opens a 10-element directory **fig. 147** where it is possible to store events to be remembered on a specified date and/or car mileage.



fig. 147

As soon as this event (date and/or car mileage) is reached, the radio-navigation system display shows a reminder box with a mnemonic string of the event entered at setting stage (see paragraph dealing with "Add" option) **fig. 148**; pressing "ESC" **15-fig. 1** will clear off the string till next switching on of the navigation system.

To delete the message definitively press the knob **16-fig. 1**. "Personal info" function shows also the following icon keys:

"Select";
"Add".

"Select"

"Select" function enables to select a list entry and to display detailed info in a new window **fig. 149**.

Press:

"Voice", "Date", "km or mi" (according to set unit), "Delete", "OK" to change selected entry settings.

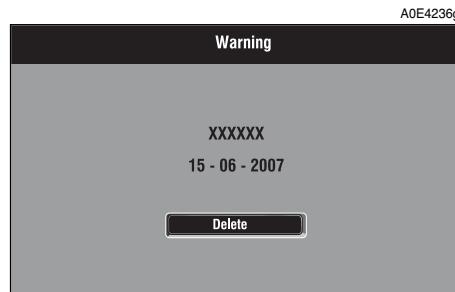


fig. 148

To make the change, select the required icon (Voice, Date, km or mi) with the knob **16-fig. 1** and then press it to confirm. A new screen for entering or changing letters and/or numbers will be displayed.

Then select "OK" and press the knob **16-fig. 1** to confirm.

"Delete" clears off the stored entry.



fig. 149

"Add"

"Add" function takes to a new screen **fig. 150**, where it is possible to enter the mnemonic string showing event, date and/or car mileage.

Press:

"Voice"

"Date", "km or mi" (according to set unit), "Delete", "OK",

to set the fields relevant to the new entry.

To make settings, select the required icon (Voice, Date, km or mi) with the knob **16-fig. 1** and then press it to confirm. A new screen for entering letters and/or numbers will be displayed.

Then select "OK" and press the knob **16-fig. 1** to confirm.

"Delete" clears off the new entry.



fig. 150

TRIP: RESET

The "RESET" function resets on-board computer data (Trip time, Distance travelled, Average speed and Average fuel consumption) only if the manual "Reset Trip B" mode in the radio-navigation system SETUP menu has been selected (see paragraph "TRIP: SETUP").

Press one of the two keys on the keypad **17-fig. 1**, on "RESET".

If "Trip B" window **fig. 139** is active, only "Trip B" data are reset.

If "Trip A" window **fig. 138** is active, both "Trip A" and "Trip B" data are reset.

IMPORTANT Trip computer data reset is only possible with key fitted into ignition switch.

GENERAL INFORMATION

With the "Voice recognition" function the user can control the radio-navigation system options by voice. By means of "Voice recognition", the user can send commands to the system through a microphone: a short push on •)) **14-fig. 1** set on the front panel enables voice command interpretation; the radio-navigation system will then provide voice help to guide the user getting the required function.

Press again •)) **14-fig. 1** to stop procedure.

Voice recognition is performed in two ways:

– **voice recognition without voice identification;**

– **voice recognition with voice identification.**

Commands **without voice identification** activate the main system functions (TEL, RADIO, CD etc.).

Commands **with voice identification** makes it possible to enter / recall names in the phone directory and/or navigation addresses.

In the first case (voice recognition without voice identification), the system is able to receive the voice commands regardless of the user's sex and voice tone and inflexion.

No preliminary training phase is required, just follow the instructions given by the system each time.

In the second case (voice recognition with voice identification), the system is able to recognise the required command comparing the voice command pronounced to the corresponding voice sample previously stored by the user.

IMPORTANT The voice recognition and message store operations are immediately interrupted in the event of incoming calls; in this case, at the end of the call, the whole operation must be repeated. Conversely, incoming SMS text messages do not interrupt the operations.

VOICE COMMANDS

Voice commands, identified as "keywords", that the system is able to recognize are organized according to four increasing levels: 1st level, 2nd level, 3rd level, 4th level. 1st level keywords activate the following main system functions: Memo; Radio; CD player; CD Changer; Navigator, Telephone. When a 1st level keyword is pronounced, the system will activate 2nd level keywords; when a 2nd level keyword is pronounced, the system will activate 3rd level keywords; when a 3rd level keyword is pronounced, the system will activate 4th level keywords.

The system will indicate acceptance or refusal to the User by sounding beeps.

After pressing the steering wheel button **14-fig. 1** or **25-fig. 2**, Audio will be muted and the system will sound a beep. At this point the User can pronounce a first level command.

After accepting the first level command, the system will sound a second beep, the user can then pronounce a second level command and so on. After pronouncing the last command, the system will sound two beeps to warn the user that the required function is being run.

If the user requests a function not available at that moment (e.g.: CD player and no Audio o MP3 CD is loaded) the system will sound a refuse beep.

If too much time passes between a command and another of lower level the system will invite the user to continue by voice message "Can I help you?".

1st level keywords are the following:

- | | |
|--------------|----------------|
| – Memo | – Dial |
| – Radio | – Redial |
| – CD player | – PIN code |
| – CD changer | – Address book |
| – Navigator | – Abort. |
| – Call | |

KEYWORDS - Summary

The following tables show the list /divided according to function) of voice commands ("keywords") that the system can receive.

"Memo" function

VOICE COMMANDS - KEYWORDS

1 st LEVEL KEYWORDS	2 nd LEVEL KEYWORDS	3 rd LEVEL KEYWORDS	4 th LEVEL KEYWORDS	REQUIRED FUNCTION
Memo				Memo ("Voice memo" function)
	Read			Read a message
	Delete			Delete all messages
	Next			Go to next message
	Previous			Go to previous message
	Record			Record memo

"Radio" function**VOICE COMMANDS - KEYWORDS**

1st LEVEL KEYWORDS	2nd LEVEL KEYWORDS	3rd LEVEL KEYWORDS	4th LEVEL KEYWORDS	REQUIRED FUNCTION
Radio				Tuner
	Next			Tune next radio station
	Previous			Tune previous radio station
	FM	(1 3)		Select FM band
	MW			Select MW band
	LW			Select LW band
	Memory			Select one station in the band
		(1 6)		
	Autostore			If FM station is tuned: FMAST band is selected. If LW or MW station is tuned: AMAST band is selected.
	Tune			Valid only if selected band is FMAST or AMAST: autostore function activation.
	Frequency (*)	(0 9) "Point" Cancel Delete Abort Repeat Send		Tuning on special frequency

Once a command has been pronounced and executed, second level "keywords" and all first level keywords will remain available for further commands.

(*) After this command the system will ask: "The frequency, please".

"CD Player" function

VOICE COMMANDS - KEYWORDS

1 st LEVEL KEYWORDS	2 nd LEVEL KEYWORDS	3 rd LEVEL KEYWORDS	4 th LEVEL KEYWORDS	REQUIRED FUNCTION
CD player				Integrated CD Player
	Stop			Stop
	Play			Play
	Pause			Pause
	Previous			Previous track
	Next			Next track
	Track			Direct track selection (*)
	(1 20)			
	Random			Random play

Once a command has been pronounced and executed, second level "keywords" and all first level keywords will remain available for further commands.

(*) Direct track selection for MP3 CDs is not available.

“CD Changer” function

VOICE COMMANDS - KEYWORDS

1 st LEVEL KEYWORDS	2 nd LEVEL KEYWORDS	3 rd LEVEL KEYWORDS	4 th LEVEL KEYWORDS	REQUIRED FUNCTION
CD changer				CD Changer
	Stop			Stop
	Play			Play
	Pause			Pause
	Previous			Previous track
	Next			Next track
	Random			Random play
	CD	(1 5)		Select CD by number
		Previous		Previous CD
		Next		Next CD

Once a command has been pronounced and executed, second level “keywords” and all first level keywords will remain available for further commands.

"Navigator" function

VOICE COMMANDS - KEYWORDS

1 st LEVEL KEYWORDS	2 nd LEVEL KEY WORDS	3 rd LEVEL KEYWORDS	4 th LEVEL KEYWORDS	REQUIRED FUNCTION
Navigator				Navigator
	Destination (*)			Select destination (only with "voice identification" mode)
	Display/show	Map		Show map
		Route		Show route
		Hotels		Show hotels on the map
		Restaurants		Show restaurants on the map
		Parking		Show parking on the map
		Petrol station		Show petrol stations on the map
	Zoom in	Nothing		Nothing (hide what is shown at the moment)
	Zoom out			Zoom in
List of destinations		Read		Zoom out
		Delete		Play list of destinations stored with "voice identification" mode
			Destination (*)	Delete a destination (only with "voice identification" mode)
		All		Delete all the voice samples associated to destinations stored in directory

Once a command has been pronounced and executed, second level "keywords" and all first level keywords will remain available for further commands.

(*) After these commands the system will ask: "The destination, please".

"Telephone" function**VOICE COMMANDS - KEYWORDS**

1st LEVEL KEYWORDS	2nd LEVEL KEYWORDS	3rd LEVEL KEYWORDS	4th LEVEL KEYWORDS	REQUIRED FUNCTION
Call (*)				Call an address book number (only with "voice identification" mode)
Dial (**)	(0 9) Plus Cancel Delete Abort Repeat Send			Call a number
Redial				Redial
PIN code (***)	(0 9) Cancel Delete Abort Repeat Send			Enter PIN code
Address book	Read			Play all the voice samples associated to the phone book with "voice identification" mode
	Delete	Name (*)		Delete an entry from the phone book (only with "voice identification" mode)
		All		Delete all the voice samples associated to the phone book

Once a command has been pronounced and executed, second level "keywords" and all first level keywords will remain available for further commands.

(*) After this command the system will ask: "The name, please".

(**) After this command the system will ask: "The number, please".

(***) After this command the system will ask: "The PIN code, please".

“Dialogue stop” function

VOICE COMMANDS - KEYWORDS

1st LEVEL KEYWORDS	2nd LEVEL KEYWORDS	3rd LEVEL KEYWORDS	4th LEVEL KEYWORDS	REQUIRED FUNCTION
Abort				Dialogue stop

Dialogue keywords

During the “conversation” with the voice recognition system, the user can modify the conversation sequence, using the “keywords” listed in the following table:

VOICE COMMANDS KEYWORDS	REQUIRED FUNCTION
Abort	Current operation is aborted
Delete	The radio-navigation system cancels the last user's command
Cancel	The radio-navigation system cancels all user's commands
Repeat	The radio-navigation system repeats user's commands
Send	The radio-navigation system runs the required function
No	Abort operation
Yes	Confirm operation

EXAMPLES (voice commands)**Tuning a radio frequency**

Pronouncing 1st level keyword “Radio” and then the 2nd level one “Frequency”, opens a dialogue enabling the following keywords:

- [0..9]
- Point
- Cancel
- Delete
- Abort
- Repeat
- Send.

First example:

User:	Radio - Frequency
SYSTEM:	The frequency, please
User:	1-0-5-Point-5
SYSTEM:	1-0-5-Point-5
User:	Send
SYSTEM:	The frequency is being tuned.

Third example:

User:	Radio - Frequency
SYSTEM:	The frequency, please
User:	1-0-6
SYSTEM:	1-0-6
User:	Point-7
SYSTEM:	Point-7
User:	Delete
SYSTEM:	1-0-6
User:	Point-6
SYSTEM:	Point-6
User:	Repeat
SYSTEM:	1-0-6-Point-6
User:	Send
SYSTEM:	The frequency is being tuned.

Second example:

User:	Radio - Frequency
SYSTEM:	The frequency, please
User:	9-6
SYSTEM:	9-6
User:	Point-5-0
SYSTEM:	Point-5-0
User:	Send
SYSTEM:	The frequency is being tuned.

Dialling a telephone number

Pronouncing 1st level keyword "Dial" opens a dialogue enabling the following keywords:

- [0..9]
- Plus (+)
- Cancel
- Delete
- Abort
- Repeat
- Send.

First example:

User:	Dial
SYSTEM:	The number, please
User:	0-1-1
SYSTEM:	0-1-1
User:	1-2-3
SYSTEM:	1-2-3
User:	4-5-6
SYSTEM:	4-5-6
User:	7-8
SYSTEM:	7-8
User:	Send
SYSTEM:	The number is being dialled.

Third example:

User:	Dial
SYSTEM:	The number, please
User:	0-1-1-1-2-3
SYSTEM:	0-1-1-1-2-3
User:	4-5-6-7-8
SYSTEM:	4-5-6-7-7
User:	Repeat
SYSTEM:	0-1-1-1-2-3-4-5-6-7-7
User:	Delete
SYSTEM:	0-1-1-1-2-3
User:	4-5-6-7-8
SYSTEM:	4-5-6-7-8
User:	Send
SYSTEM:	The number is being dialled.

Second example:

User:	Dial
SYSTEM:	The number, please
User:	0-1-1-1-2-3
SYSTEM:	0-1-1-1-2-3
User:	4-5-6-7-8
SYSTEM:	4-5-6-7-8
User:	Repeat
SYSTEM:	0-1-1-1-2-3-4-5-6-7-8
User:	Send
SYSTEM:	The number is being dialled.

Enter PIN code

Pronouncing 1st level keyword "PIN code", opens a dialogue enabling the following keywords:

- [0..9]
- Cancel
- Delete
- Abort
- Repeat
- Send.

First example:

User: PIN code
SYSTEM: The PIN code, please
User: 1-2-3-4
SYSTEM: 1-2-3-4
User: Send
SYSTEM: The PIN code is being dialled.

Third example:

User: PIN code
SYSTEM: The PIN code, please
User: 1-2
SYSTEM: 1-2
User: 3-4
SYSTEM: 3-8
User: Delete
SYSTEM: 1-2
User: 3-4
SYSTEM: 3-4
User: Repeat
SYSTEM: 1-2-3-4
User: Send
SYSTEM: The PIN code is being dialled.

Second example:

User: PIN code
SYSTEM: The PIN code, please
User: 1-2
SYSTEM: 1-2
User: 3-4
SYSTEM: 3-4
User: Send
SYSTEM: The PIN code is being dialled.

Storing an entry in the address book with voice identification

The user can insert into the telephone book a voice sample associated to a number (only with "voice identification" mode).

Recording stage cannot be performed through voice commands (for further details see section "Cellular telephone with voice commands" at paragraph "Directory function – Voice recognition").

User can stop the operation only by pressing the front panel key •)) **14-fig. 1:**

First example:

SYSTEM: The name, please
User: Barbara
SYSTEM: Please, repeat the name
User: Barbara
SYSTEM: The name has been stored.

Second example:

SYSTEM: The name, please
User: Francesca
SYSTEM: Please, repeat the name
User: Maria
SYSTEM: The name has not been stored.
The name, please
User: Francesca
SYSTEM: Please, repeat the name
User: Francesca
SYSTEM: The name has been stored.

Calling an entry from the address book with voice recognition

Pronouncing 1st level keyword "Call", opens a dialogue enabling the following keywords:

- Cancel
- Delete
- Abort
- Repeat
- Send.

First example:

User: Call
SYSTEM: The name, please
User: Paola
SYSTEM: Paola
User: Send
SYSTEM: The number is being dialled.

Second example:

User: Call
SYSTEM: The address book is empty.

Third example:

User: Call
 SYSTEM: The name, please
 User: Paoletta
 SYSTEM: Please repeat
 User: Paola
 SYSTEM: Paola
 User: Send
 SYSTEM: The number is being dialled.

Fourth example:

User: Call
 SYSTEM: The name, please
 User: Anna
 SYSTEM: Vanna
 User: Repeat
 SYSTEM: Vanna
 User: Cancel
 SYSTEM: The name, please
 User: Anna
 SYSTEM: Anna
 User: Send
 SYSTEM: The number is being dialled.

Deleting a name from the address book

Pronouncing 1st level keyword “Address book” and then “Delete” and “Name”, will open a dialogue enabling the following keywords:

- Yes
- No
- Cancel
- Delete
- Abort
- Repeat.

Second example:

User: Address book - Delete - Name
 SYSTEM: The name, please
 User: Vanna
 SYSTEM: Do you wish to delete (Anna)?
 User: Repeat
 SYSTEM: Do you wish to delete (Anna)?
 User: No
 SYSTEM: Abort.

First example:

User: Address book - Delete - Name
 SYSTEM: The name, please
 User: Barbara
 SYSTEM: Do you wish to delete (Barbara)?
 User: Yes
 SYSTEM: The name has been deleted.

Third example:

User: Address book - Delete - Name
 SYSTEM: The address book is empty.

Fourth example:

User: Address book - Delete - Name
 SYSTEM: The name, please
 User: Paola
 SYSTEM: Do you wish to delete (Paola) ?
 User: Cancel
 SYSTEM: The name, please
 User: Elena
 SYSTEM: Do you wish to delete (Elena) ?
 User: Yes
 SYSTEM: The name has been deleted.

Storing a destination in the list of destinations with voice recognition

The user can insert into the navigator directory a voice sample associated to a stored address.
 This function cannot be activated by voice command.
 User can stop the dialogue only pressing front panel key •)) **14-fig. 1**:

First example:

SYSTEM: The destination, please?
 User: Home.
 SYSTEM: Please, repeat the destination.
 User: Home.
 SYSTEM: The destination has been stored.

Second example:

SYSTEM: The destination, please?
 User: Office Milano.
 SYSTEM: Please, repeat the destination.
 User: Milano Office.
 SYSTEM: The destination has not been stored. The destination, please.
 User: Office Milano.
 SYSTEM: Please, repeat the destination.
 User: Office Milano.
 SYSTEM: The destination has been stored.

Calling a destination from the list of destinations with voice recognition

Pronouncing 1st level keyword “Navigator” and then the 2nd level one “Destination” opens a dialogue enabling the following keywords:

- Cancel
- Delete
- Abort
- Repeat
- Send.

First example:

User:	Navigator - Destination
SYSTEM:	The destination, please?
User:	Office
SYSTEM:	Office
User:	Send
SYSTEM:	The destination is being entered.

Fourth example:

User:	Navigator - Destination
SYSTEM:	The destination, please?
User:	Anna's house
SYSTEM:	Vanna's house
User:	Repeat
SYSTEM:	Vanna's house

Second example:

User:	Navigator - Destination
SYSTEM:	The list of destinations is empty.

User:	Delete
SYSTEM:	The destination, please?

Third example:

User:	Navigator - Destination
SYSTEM:	The destination, please?
User:	Office Milano
SYSTEM:	Please repeat
User:	Milano Office
SYSTEM:	Milano Office
User:	Send
SYSTEM:	The destination is being entered.

Deleting a destination from the list of destinations

Pronouncing 1st level keyword "Navigator" and then "List of destinations, Delete, Destination" will open a dialogue enabling the following keywords:

- Yes
- No
- Cancel
- Delete
- Abort
- Repeat.

First example:

User: Navigator -
List of destinations -
Delete -
Destination.

SYSTEM: The destination,
please?

User: Home

SYSTEM: Do you wish to delete
(Home) ?

User: Yes

SYSTEM: The destination has
been deleted.

Second example:

User: Navigator -
List of destinations -
Delete -
Destination.

SYSTEM: The destination,
please?

User: Torino

SYSTEM: Do you wish to delete
(Torino) ?

User: Repeat

SYSTEM: Do you wish to delete
(Torino) ?

User: No

SYSTEM: Abort.

Third example:

User: Navigator -
List of destinations -
Delete -
Destination.

SYSTEM: The list
of destinations is
empty.

Fourth example:

User: Navigator -
List of destinations -
Delete -
Destination.

SYSTEM: The destination,
please?

User: Office Milano

SYSTEM: Do you wish to delete
(Office Milano)?

User: Cancel

SYSTEM: The destination,
please?

User: Paola's house

SYSTEM: Do you wish to delete
(Paola's house)?

User: Yes

SYSTEM: The destination has
been deleted.

Stopping the dialogue

To stop a dialogue, pronounce "Abort" keyword. Keywords entered before pronouncing "Abort", are deleted.

"Abort" is recognized by the system only in "voice recognition without voice identification" mode.

First example:

SYSTEM: The destination,
please?

User: Office

SYSTEM: Office

User: Abort

SYSTEM: Abort.

INFORMATION AND ASSISTANCE SERVICES (SOS) (where provided)

When the "SOS" key **20-fig. 1** is pressed, the screen is shown for requesting Information and Assistance Services **fig. 151**, regardless of the page shown previously on the display.

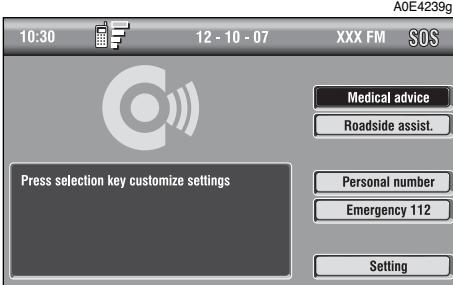


fig. 151

IMPORTANT NOTES

— "112" is the emergency call service for all countries in which this public service is available. The "Emergency 112" call can always be activated, even if the SIM card is not inserted in the slot **18-fig. 1**.

— If the PIN code has not been entered, in the case of a request for services the user is warned of the need to enter the PIN code.

— The activation of calls for assistance is subordinate to whether the cell phone is working and correctly supplied electrically. Therefore in the event of accidents or damage to the car it might not be available.

The "SOS" menu includes the following functions:

- Medical advice *
- Roadside assist. *
- Personal number
- Emergency 112
- Settings.

(*) These services run by **bCONNECT** can be activated free of charge, upon request at dealer or by calling the **bCONNECT** Service Centre, free number 800-564-952. The second year these services will be provided on payment. If the user has not yet subscribed to them, the associated menu functions are inactive and the display shows "Subscribed services not enabled" **fig. 152**. During subscription you will be given the activation and deactivation procedures of the Telematic Services offered by **bCONNECT**.



fig. 152

"MEDICAL ADVICE" FUNCTION

Selecting this function with the knob **16-fig. 1** and pressing it to confirm, after about 10 seconds a message calling for medical assistance is forwarded to the **bCONNECT** operator, completed with the position of the car to allow it to be located.

Activating automatic medical assistance with the "Settings" function shown below, the message is sent simply pressing the "SOS" key **20-fig. 1**, with no need to select the special function.

When automatic medical advice is enabled, to avoid accidental forwarding, the user has about 25 seconds, from pressing the "SOS" key **20-fig. 1**, to interrupt the call; to block the call, simply turn the knob **16-fig. 1** to another option or press "ESC" **15-fig. 1**.

IMPORTANT The medical advice centre number cannot be set by the user.

"ROADSIDE ASSIST." FUNCTION

Selecting this function on the "SOS" menu main page using the knob **16-fig. 1** and pressing it to confirm, after about 10 seconds a message calling for road assistance is sent to the **bCONNECT** operator, completed with the position of the car to allow it to be located.

IMPORTANT The roadside assistance centre number cannot be set by the user.

For both Roadside Assistance and Medical Advice calls, if transmission of the telematic call is not successful, automatic dialling of the tollfree number concerning the service required is envisaged, to inform in any case of the need for assistance (this call will be successful only if the area in which the car is has GSM coverage).

"PERSONAL NUMBER" FUNCTION

Selecting this function on the "SOS" menu main page using the knob **16-fig. 1** and pressing it to confirm, automatically sends a phone call to a number set previously by the user.

The procedure for setting this number is described in the "Settings" paragraph that follows.

"EMERGENCY 112" FUNCTION

Selecting this function on the "SOS" menu main page using the knob **16-fig. 1** and pressing it to confirm, directly sends a call to the police force.

IMPORTANT "112" is the emergency call service for all the countries in which this public service is available. The "Emergency 112" call can always be activated, even if the telephone card is not inserted in the slot **18-fig. 1**.

"SETTINGS" FUNCTION

Selecting this function on the "SOS" menu main page using the knob **16-fig. 1** and pressing the knob **16-fig. 1** to confirm, accesses a new screen with "CODE SYSTEM", "Personal number" and "Medical advice" functions **fig. 153**.

"OK" icon key enables to save set data.

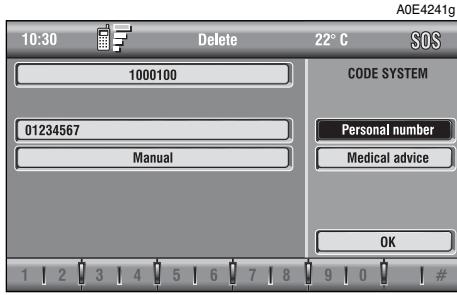


fig. 153

"CODE SYSTEM" function

This allows to view the system terminal identification code (adopted by **bCONNECT** centre).

"Personal number" function

Selecting this function with the knob **16-fig. 1** and pressing it to confirm, it is possible to enter the number to be called when the "Personal number" function is activated, on the screen that appears after pressing the "SOS" key **20-fig. 1** for the emergency call.

To enter the telephone number use the keypad keys **17-fig. 1** (normally disabled), set on the lower screen bar **fig. 153**.

"Medical advice" function

The "Medical advice" function allows to activate or deactivate automatic sending of the medical call ("Automatic" or "Manual" medical advice call).

When automatic medical call is enabled, this will be sent by the system about 25 seconds from when the user has pressed the "SOS" key **20-fig. 1**, with no need to do anything else.

If the user wishes to call for medical assistance when the function is disabled (manual call), it will be necessary to press the "SOS" key **20-fig. 1**, select "Medical advice" function with the knob **16-fig. 1** and press it to confirm.

If the function is enabled, pressing the "SOS" key **20-fig. 1**, automatically opens the screen with the "Automatic medical advice": function already highlighted: if the user does not move the cursor within 15 seconds using the knob **16-fig. 1** and call is not cancelled for other 10 seconds, the request for medical assistance will be forwarded automatically. If not, the call will not be sent and to activate it at a later time, the user will have to select again the "Medical advice" function and to press the knob **16-fig. 1** to confirm.

"OK" icon key

To confirm settings, select "OK" with the knob **16-fig. 1** and press it to confirm.

CALLS FOR MEDICAL ADVICE OR ROADSIDE ASSISTANCE

During the forwarding of a call for assistance to the operating centre, any other operations activated are interrupted and the volume of any audio sources (except the phone) is muted. These conditions will be maintained as long as the call for assistance is active, with the corresponding screen on the display.

If a phone call is received while forwarding a request for assistance, the corresponding alert will not be shown on the display but the ringer will ring. If the user decides to accept the call and briefly presses the **✓ 13-fig. 1**, key, the assistance call screen goes off the display.

IMPORTANT The call for assistance is always forwarded; however, if you accept the incoming call, the **bCONNECT** operator might have difficulty in contacting you since the number could be busy.

When the call has been sent, the display shows the corresponding call forwarded message for about 4 seconds.

If for any reason the call for assistance cannot be sent, the display shows a warning message and the user is then asked if he/she wants to activate a phone call in any case (*) to the operating centre to avail of the service required, even if in this case the operating centre will no longer be able to locate the car.

(*) The call is normally made using the toll-free number, while it is at the user's expense if it is made in roaming conditions.

INFOMOBILITY SERVICES

Press button •)) **22-fig. 1** to display screen **fig. 154** to be used for requesting services and info. Available functions are:

- System
- Select.

Operator availability (GSM field strength, etc...) is shown on the left top of the screen, whereas SMS sent to the **bCONNECT** operator are listed at the bottom of the screen.



fig. 154

Services are available only upon subscription. If the user hasn't subscribed yet or if subscription expired, then the "Connect" icon is disabled and screen in **fig. 155** is displayed showing "Subscribed services not enabled".

User can call the operator to get information to (re)activate the service.

If subscription expired, it is always possible to consult stored information.

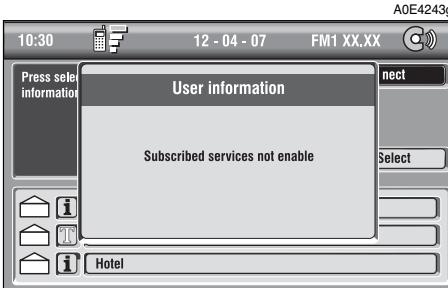


fig. 155

"System" function

Select this function through knob **16-fig. 1** and press it to confirm: the on-board device will send info request to the Operational Centre via a pre-configured SMS. When receiving the request, will call the user on the car freehand set.

When this phone connection is active the user can request info to the operator. If the telematic connection cannot be activated, the display will show the relevant warning message. Some information will be given only vocally by the operator, while others may also be sent with SMS messages, that will be received regardless of the function active (MAIN, AUDIO, etc.).

The message will be shown directly on the screen active at that moment, in a window **fig. 156** containing the "Save", "Delete", "Map" (if the message contains geographical indications) and "Call" (if a telephone number is present).

Choosing "Save" option the message will be stored, while "Delete" will clear it from the screen and from memory.

Choosing "Map" will automatically display the point on the map, with the possibility to enter it as navigation system destination. In this case the message will also be stored automatically.

Choosing "Call" the telephone number contained in the message will be dialled automatically and the message will be stored.

Should a sequence of messages be received, a specific window will be opened for each of them and for each of them it will be possible to perform the storage, deletion, display on the map or call phone number operations.



fig. 156

"Select" function

If they are not deleted, all the messages received are stored. The list with all the messages can be seen in the bottom of the display, in the screen with "Infomobility" function **fig. 157**. A maximum of ten messages can be stored: further arrivals overwrite the oldest one. Every message is identified by an icon recalling the message type and an envelope recalling the message status: read or not (sealed envelope = unread message, open envelope = read message).

To access single messages of the list which may contain information on the traffic, points of interest or weather information, activate the "Select" function with the knob **16-fig. 1** and press it to confirm, then turn the knob **16-fig. 1** to scroll the list of messages (also the invisible part).

When the message you want to read is highlighted, press the knob **16-fig. 1** to view to on the display.



fig. 157

Traffic information

The icon with “

When the message contains geographical information for locating the point, when viewing, “Delete” and “Map” options are made available on the display **fig. 158**.

Selecting and confirming “Delete” with the knob **16-fig. 1**, eliminates definitively the message from the list, while with “Map” the map is displayed showing the position involved in the event. The screen with the map also shows the corresponding graphic options (zoom, etc.), described previously in the “Map” paragraph of the “Navigator (Nav)” section.



fig. 158

Information about points of interest

The icon with “

When the message is shown on the display, the options “Delete”, “Map” and “Call” are made available **fig. 159**.

Selecting and confirming “Delete” with the knob **16-fig. 1**, eliminates definitively the message from the list, while with “Map” the map is displayed (if the message contains a geographic point) showing the point of interest that can also be used as destination or entered in the system directory. With the “Call” key, when present, it is possible to send a phone call directly to the number given in the message.

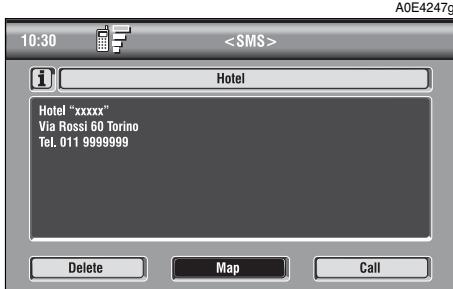


fig. 159

Generic information

The icon with “

When one of these messages, without geographical information for location, is shown on the display, only the “Delete” option is available which allows it to be definitively deleted from the list **fig. 160**.

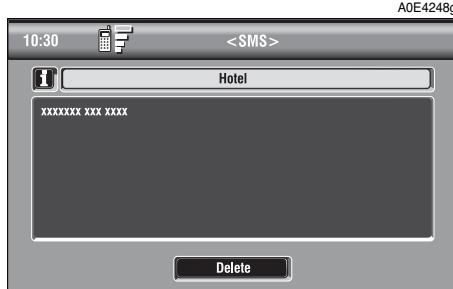


fig. 160

The SETUP mode enables to set different car and radio-navigation system operating modes and parameters.

Parameters and operating modes have been grouped in the following four areas:

- LANGUAGE
- DATE & TIME
- VEHICLE
- SYSTEM.

Every above area is then divided into different sub-areas. Read carefully through this chapter to learn any features offered by the navigation system.

To enter the SETUP mode, press the "TRIP" key **2-fig. 1** on the front panel, then press one of the two keys set under the "SETUP" icon key. Screen in **fig. 161** will be displayed.

SETUP

IMPORTANT If the key is removed from the ignition switch, certain SETUP information/operations will only be accessible for reference.

Any new setting on the radio-navigation system, will be operative only after checks performed by car check components; otherwise the warning message "Setup change failed" will be displayed.

IMPORTANT To be sure that any new setting is positively received by car check components it is strictly necessary that the key is fitted into the ignition switch.

For each item on the display, symbol "✓" indicates whether the item is set.

On the right side of the display "Text Language" shows which language for written text is active, "VR language" (Voice Recognition language) shows which language is used by the system for voice commands.

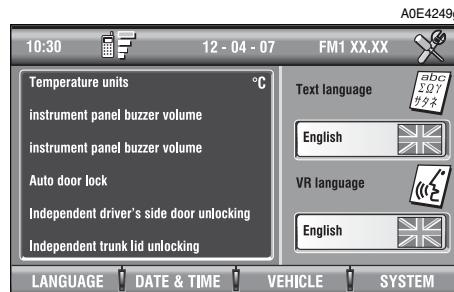


fig. 161

IMPORTANT Setting (whatever) language will start the updating procedure of the written text and voice instructions. The text (strings) will be updated in a few seconds according to the language selected. The language of messages and voice instructions can be only updated after loading the Setup CD into the proper slot. If the Setup CD is not loaded when requested, the language of messages and voice instructions will not be updated.

To change parameters and operating modes, press keypad keys **17-fig. 1** under LANGUAGE, DATE & TIME, VEHICLE or SYSTEM.

This operation will display the specific screen thus allowing the desired operations.

LANGUAGE

To display the relevant screen page, press one of the keypad keys **17-fig. 1** under LANGUAGE **fig. 162**.

IMPORTANT Before starting language upgrading procedure, be sure that the provided Setup CD is available and ready to be used.

Selecting icon "LANGUAGE", by turning the knob **16-fig. 1** and pressing it to confirm, the user can set the required language, available languages are: Italian, English, French, German, Spanish, Portuguese and Dutch.



fig. 162

Selected language will be valid for both the written text ("Text Language") and voice recognition ("VR language") and for any voice instruction coming from the system.

To select the required language, rotate the knob **16-fig. 1** and press it to confirm.

As concerns the written text, the new language is active after selecting "OK" with the knob **16-fig. 1** and pressing it.

For setting voice recognition, the user will be requested to input the Setup CD.

IMPORTANT If the Setup CD is not inserted, the new set language will be operative for written text only. Voice recognition (and instruction coming from the system) language will be the default or the preset one.

The display will show the following string:
"Insert Setup CD to change language of messages and voice commands. Press ESC to cancel".

If the Setup CD is inserted the following message will be permanently displayed:

"System will be unavailable for a few seconds and calls in progress will be terminated. Press ENTER to continue or ESC to cancel".

If the knob **16-fig. 1** has been pressed, the following message will be displayed permanently:

"Message and voice command language change in progress. Do not turn off system. Please wait".

The end of the procedure is indicated by the following message:

"Message and voice command language change concluded correctly".

If some errors occur during language updating, the following message will be displayed:

"Language change failed. Please repeat procedure".

This message asks the user to repeat the above procedure.

Whenever the radio-navigation system is turned on fitting the key into the ignition switch, the language module is checked and if the system finds a fault the following warning message will be displayed:

"Voice commands and messages not available. Please change the language".

This message asks the user to repeat language change procedure.

The user shall set again the desired language in the SETUP menu and then follow the above procedure.

DATE & TIME

To open the relevant screen page, press one of the keypad keys **17-fig. 1** under DATE & TIME **fig. 163**.

IMPORTANT Any adjustment shall only be performed with the key fitted into the ignition switch. Otherwise setting is rejected and the warning message "Setup change failed" will be displayed.

Time displaying can be set according to two modes: 12h or 24h.

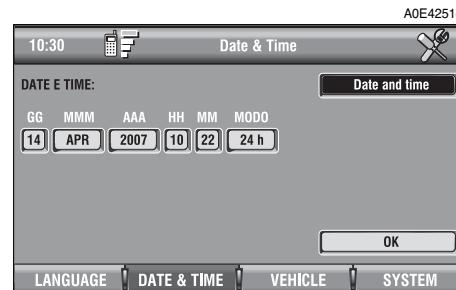


fig. 163

To set a new Date/Time (only with key into ignition switch), select "Date and time" icon and then press the encoder **16-fig. 1**.

To set day, month, year, hours, minutes, mode (12h / 24h), rotate the knob **16-fig. 1** to the required setting and then press the knob **16-fig. 1**, each field will be activated in sequence.

Setting "GG": select day rotating the knob **16-fig. 1** and press it to confirm.

Setting "MMM": select month rotating the knob **16-fig. 1** and press it to confirm.

Setting AAAA: select year rotating the knob **16-fig. 1** and press it to confirm.

Setting HH: select hour rotating the knob **16-fig. 1** and press it to confirm.

Setting MM: select minutes rotating the knob **16-fig. 1** and press it to confirm.

Setting MODE (12h / 24h): select 12h or 24h mode rotating the knob **16-fig. 1** and press it to confirm.

To activate the required settings, select and confirm "OK" by turning and pressing the knob **16-fig. 1**.

IMPORTANT During setting, hours (HH) are always displayed with 24h mode, regardless of set mode.

IMPORTANT If set mode is 24h, the display shows time using digits between 0 and 23; if set mode is 12h, the display shows time using digits between 1 and 12.

VEHICLE

To display the relevant screen page, press one of the keypad keys **17-fig. 1** under VEHICLE.

Choosing this Setup option two different setting menus are displayed, according to the car version.

FIRST MENU - fig. 164

Instrument panel buzzer volume

To adjust the volume of warning/failure indications (buzzer) given by the instrument panel.

The buzzer volume can be adjusted on 8 levels.

IMPORTANT The buzzer can be adjusted but not excluded.

Rotate and press the knob **16-fig. 1** to select and confirm "Instrument panel buzzer volume".

The display shows the screen in **fig. 165**.

To adjust volume, select "Change" rotating the knob **16-fig. 1** and then press it to confirm.

Rotate the knob **16-fig. 1** clockwise to increase volume and anticlockwise to reduce it.

An indication cursor and a numeric window will help you in setting.

Press the knob **16-fig. 1** twice to confirm and go back to first menu.

Whenever set value exceeds 1, symbol "✓" is displayed in the first menu next to the corresponding item.

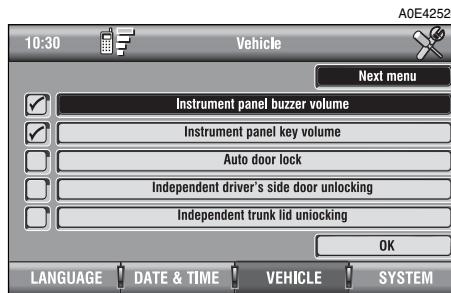


fig. 164

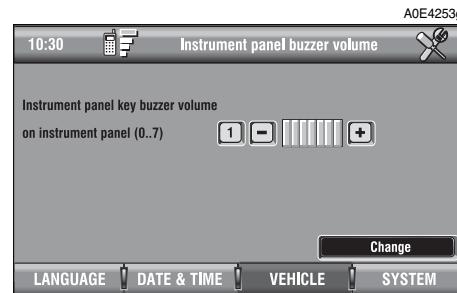


fig. 165

Instrument panel key volume

To adjust or mute instrument panel key volume (MENU, +, -).

Instrument panel key volume can be adjusted on 8 levels. Buzzer volume can be adjusted and also excluded.

Rotate and press the knob **16-fig. 1** to select and confirm "Instrument panel key volume".

The display shows the screen in **fig. 166**.

To adjust volume, select and confirm "Change" by rotating and pressing the knob **16-fig. 1**.

Rotate the knob **16-fig. 1** clockwise to increase volume and anticlockwise to reduce it.

An indication cursor and a numeric window will help you in setting.

Press the knob **16-fig. 1** twice to confirm and go back to first menu.

Whenever set value exceeds **0**, symbol "**✓**" is displayed in the first menu next to the corresponding item.

The **0** level excludes the buzzer of the instrument panel keys (MENU, +, -).

Auto door lock

To set automatic door lock according to car speed.

When this function is active doors are locked automatically as car speed exceeds 20km/h.

To turn this function on/off, rotate the knob **16-fig. 1** to select "Auto door lock" and then press the knob to confirm.

When "**✓**" is displayed the function is active.

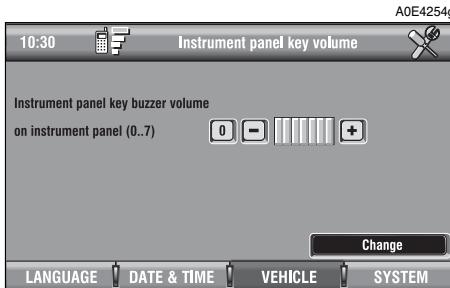


fig. 166

Independent driver's side door unlocking

IMPORTANT This setting is provided on certain car versions only.

To activate/deactivate independent driver's side door unlocking.

When this function is on only the driver's door will be unlocked.

When this function is off all doors will be unlocked.

To turn this function on/off, rotate the knob **16-fig. 1** to select "Independent driver's side door unlocking" and then press the knob to confirm.

When "✓" is displayed the function is active.

OK

To activate and to store settings, select "OK" by rotating and pressing the knob **16-fig. 1**.

Independent trunk lid opening

To activate/deactivate independent trunk lid opening.

When this function is on, trunk lid will stay locked when unlocking the doors. Trunk lid will be unlocked only by pressing the key button  whereas the button located on the front ceiling light will result disabled.

When this function is off, the trunk lid will be unlocked like the other doors: in this case the button located on the front ceiling light will result enabled.

Turn knob **16-fig. 1** to select "Independent trunk lid unlocking" and press it to activate/deactivate this function.

When "✓" is displayed the function is active.

OK

To activate and to store settings, select "OK" by turning and pressing knob **16-fig. 1**.

SECOND MENU fig. 167

To open the second menu from the screen shown in **fig. 163**, select and confirm "Next menu" by rotating and pressing the knob **16-fig. 1**.

The display shows the screen in **fig. 167**.

To go back to the first menu, select and confirm "Previous menu" by rotating and pressing the knob **16-fig. 1**.

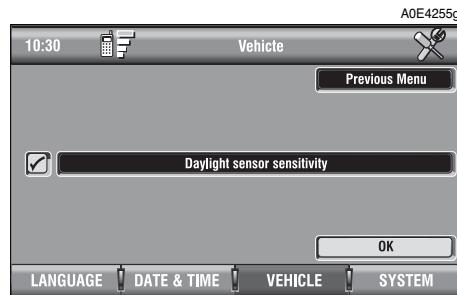


fig. 167

Daylight sensor sensitivity

IMPORTANT This setting is only available if the car is equipped with daylight sensor.

To adjust daylight sensor sensitivity, select and confirm "Daylight sensor sensitivity" by turning and pressing the knob **16-fig.1**.

The display shows the screen in **fig. 168**.

Then select "Change" by rotating the knob **16-fig.1** and press it to confirm.

Turn the knob **16-fig.1** clockwise to increase the sensitivity level and anticlockwise to reduce it.

Setting is aided by a cursor and a numeric window.

Press the knob **16-fig.1** twice to confirm and go back to first menu.

OK

To activate and to store settings, select and confirm "OK" by rotating and pressing the knob **16-fig. 1**.

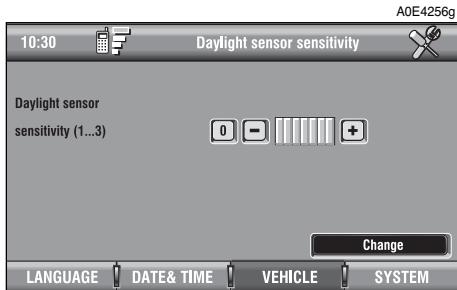


fig. 168

SYSTEM (settings)

To display the relevant screen page, press one of the keypad keys **17-fig. 1** under SYSTEM.

A new screen **fig. 169** is displayed where it possible to choose the following:

- Strument panel
- Video
- Power OFF
- Units
- Reset TRIP B

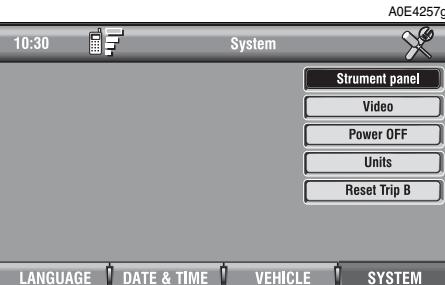


fig. 169

INSTRUMENT PANEL

Selecting "Instrument panel" rotating the knob **16-fig. 1** and pressing it to confirm, allows to set to enter the function for setting the repetition of radio, phone and audio instructions on the instrument panel display.

To turn this function on/off, rotate and press the knob **16-fig. 1**.

When "✓" is displayed the function is active.

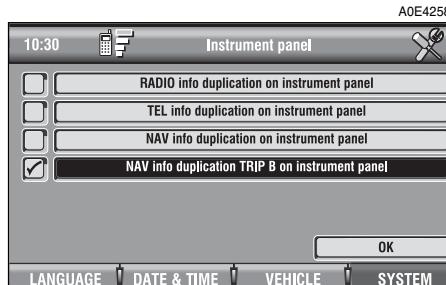


fig. 170

To activate and to store settings, select and confirm "OK" by rotating and pressing the knob **16-fig. 1**.

IMPORTANT This setting is only possible if the key is fitted into the ignition switch.

VIDEO

Selecting and confirming the "Video" icon by rotating and pressing the knob **16-fig. 1** will allow the following settings **fig. 171**:

Daytime brightness: enables to adjust system screen brightness in day mode, if colour mode is active: DAY or Automatic with lights off (see paragraph Color). To perform the adjustment, select and confirm the relevant icon rotating and pressing the knob **16-fig. 1**.

Rotate the knob **16-fig. 1** clockwise to increase brightness and counterclockwise to decrease it.

Nighttime brightness: enables to adjust system screen brightness in night mode, if colour mode is active: NIGHT or Automatic with lights on (see paragraph Color). To perform the adjustment, select and confirm the relevant icon rotating and pressing the knob **16-fig. 1**. Rotate the knob **16-fig. 1** clockwise to increase brightness and counterclockwise to decrease it.

Color: selecting and confirming it by rotating and pressing the knob **16-fig. 1**, the following settings are possible:

— "Automatic": it allows you to automatically modify the colour range (daytime/night) depending on the vehicle light switch-on/off conditioned by the consent from the twilight sensor (thus, lights coming on in the daytime will not cause brightness to change during the night).

— "Day": activates day mode. The adjustment cursor is available if "Color" is set to Day or Automatic with lights off.

— "Night": activates night mode. The adjustment cursor is available if "Color" is set to Night or Automatic with lights on.

OK

To activate and to store settings, select and confirm "OK" by turning and pressing the knob **16-fig. 1**.



fig. 171

POWER OFF

Select and confirm "Power OFF" rotating and pressing the encoder **16-fig. 1** in order to access the type of setting that determines the radio-navigation system switching off mode **fig. 172**.

The following settings are possible:

- "Deactivation dependent on ignition key"
- "Deactivation independent of ignition key".

Current activated setting will be highlighted.

Select the required setting by rotating the knob **16-fig. 1** and then press it to confirm.

Press "ESC" **15-fig. 1** to go back to previous screen.

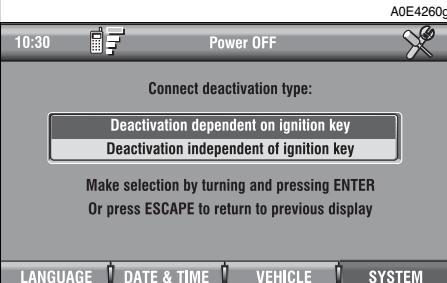


fig. 172

UNITS

Select and confirm "Units" by turning and pressing the knob **16-fig. 1** to set the following type of unit **fig. 173**:

- Distance units
- Consum.units
- Celsius/Farhenheit (Temperature units)

To change settings, select and confirm "Change" by turning and pressing the knob **16-fig. 1**.

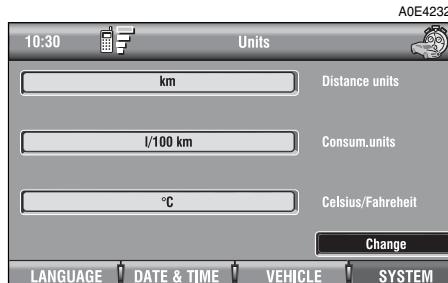


fig. 173

Distance units

To choose the required distance unit (km or miles).

To change setting, select and confirm "Distance units" by turning and pressing the knob **16-fig. 1**.

The two units are displayed alternately each time the knob **16-fig. 1** is pressed.

Consumption units

To choose the required consumption unit (l/100Km or km/l).

To change setting, select and confirm "Consum. units" by turning and pressing the knob **16-fig. 1**.

The two units are displayed alternately each time the knob **16-fig. 1** is pressed.

WARNING if miles (mi) are selected as distance unit, the consumption unit will be mpg.

Celsius/Farhenheit (Temperature units)

To choose the required temperature unit: °C (Celsius) or °F (Farhenheit).

To change setting, select and confirm "Celsius/ Farhenheit" by turning and pressing the knob **16-fig. 1**.

The two units are displayed alternately each time the knob **16-fig. 1** is pressed.

TRIP B RESET

This option enables to select TRIP B reset mode: "Automatic upon turning off engine" or "Manual" **fig. 174**.

Setting mode "Automatic upon turning off engine" will reset only the values relevant to TRIP B each time the engine is killed, whereas "Manual" will provide resetting only by pressing one of the two keypad buttons **17-fig. 1**, near "RESET".

To select one of the two above settings and confirm it, turn and then press knob **16-fig. 1**.

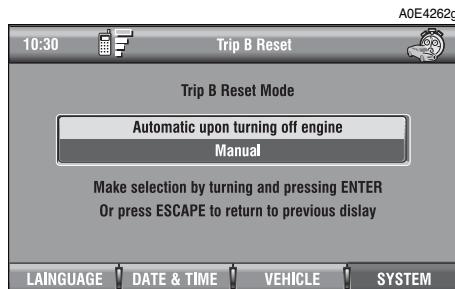


fig. 174

The radio-navigation system is able to detect both internal faults and faults due to overheating.

INTERNAL FAULTS

If the system detects an internal fault on a certain module (audio, telephone, etc...), the system will "freeze" the last available screen and it will start diagnostics.

For a set period of time the system monitors the involved module for troubleshooting. If time-out expires with no result, the system will adopt the best repair action (e.g.: resetting involved module hardware).

Should the system be not operating, reset it manually by pressing the knob **1**-fig. 1 for over 7 seconds.

FAULTS

OVERTEMPERATURE FAULTS

If the temperature of a module of the radio-navigation system (e.g.: audio, telephone, CD player, etc...) exceeds the max. limit, the involved module will detect overtemperature and the display will show a dedicated warning message.

The involved module will automatically be limited or disabled. In extreme cases the system is turned off automatically until regular operating temperature is restored. The display will show the screen in **fig. 175**.

Press "ESC" **14**-fig. 1 to quit;
the system will resume regular operation
only after restoring normal thermal conditions.

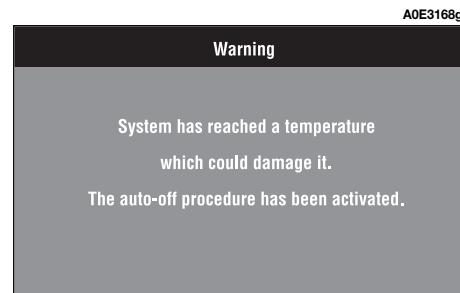


fig. 175

The involved module will feature limited functions as described in the following table:

Hardware module	Effects	Involved functions
Audio	Sound volume is automatically limited regardless of the audio source active.	Audio (Radio, CD, CD-Changer) Telephone (voice) Navigation (navigation voice instructions) Voice recognition (voice)
CD player	No type of CD can be read, no audio CD or MP3 CD can be played, navigation functions are not guaranteed (unless navigation without CD has been previously activated).	Audio (only functions relevant to CD/MP3 CD)
Telephone (where provided)	The modulo will be deactivated (TEL OFF) with inhibition of the assistance services (SOS) as a consequence.	Mobile phone, assistance services (SOS).
Whole system	System turning off.	All

NOTES





QUALITY

ASSISTENZA TECNICA - INGEGNERIA ASSISTENZIALE
Largo Senatore G. Agnelli, 5 - 10040 Volvera - Torino (Italia)
Fiat Group Automobiles S.p.A.

Print no. 60431734 - 1st edition - 06/2007

All rights reserved. Reproduction, even in part is prohibited without written permission
from Fiat Group Automobiles S.p.A.

ENGLISH

