



MG ZS Owners Handbook

Contents

Preface	1
Special announcement	3
Preparing before using	4
Basic Operation	5
Main Menu	5
Radio	6
Merdia	6
USB Music	6
Bluetooth Music	8
Phone	8
Use Help	9
Setting	9
Navigation	12
Technical Parameter	30

Preface

Thank you for choosing and using our products. Please read this manual carefully before using the product to have a clear understanding of operation, so that you can get a better driving experience.

It should be kept properly for future use!

Caution: In order to prevent fire or electric shock do not expose the machine to rain or humid environment. There are dangerous high voltage parts in the machine, so don't open the cover. Qualified maintenance personnel must be entrusted to carry out maintenance.

Caution: Any change or modification to the machine will cause a lot of inconvenience to the user without the company or the company authorized by the company expressly.

To avoid injury or loss of property to users or other personnel, please read and observe the following use of attention.

- 1 Reading instruction: Before operating the machine, you must read and understand all the instructions.
- 2 Keeping the book in use: After carefully reading instruction manual, you must keep it in a safe place for future use.
- 3 Comply with all cautions and instructions for warning: All cautions and instructions on the product and instructions must be strictly observed.
- 4 Appendix: Please do not use the attachments unrecommended by the manufacturer. If improper attachment is used, it can cause an accident.
- 5 No Dismemberment or refit is permitting: Dismemberment or refit of the machine is strictly prohibited. Do not cut the power cord and link to other power sources. There is a risk of smoke, fire, electric shock or malfunction.
- 6 No foreign matter into the unit is allowed: Metal objects (coins, tools, etc.) or flammables entering into the unit can make short-circuit and may cause heat, fire, electric shock and malfunction.

Preface

- 7 When there are faults and abnormalities: When odor and other abnormal circumstances occur on the machine, please immediately stop using and turn off the power supply, and contact the distributor, in order to avoid the risk of fire or electric shock.
- 8 Avoiding heat sources: Do not install the unit near the place of direct sunlight and high temperature.
- 9 Using proper power supply: This unit is designed to use 12V dc cathode grounding battery system.
- 10 Safety-check: Please do not attempt to repair the machine on your own. Let maintenance personnel perform safety inspection to ensure the unit is functioning properly.
- 11 Display screen:
 - ① Do not heat the screen or use sharp objects to scratch the display.
 - ② A small number of bright or dark spots may appear on LCD screens that is a very common phenomenon in active matrix display technology. This does not indicate a failure or defect.
 - ③ Do not set the unit to be too bright or play too bright video for a long time to avoid appearing the phenomenon of burning on the display screen (speckle in bright image).
 - ④ Although the effective pixel of the LCD panel is more than 99.99%, there is 0.01% of the pixel will not be light normally.
 - ⑤ At cooler temperatures, the brightness of the LCD screen is gradually on.
- 12 No operating while driving: If you operate the unit while driving, you may cause a traffic accident because of distraction, and you have to park your car in a safe place before operating it.
- 13 Washing car: Do not allow the unit, including speakers and other supporting equipment, to be subjected to excessive moisture.
- 14 Parking: Parking the car in the direct sunlight will make the car temperature too high. Please cool down when you open the unit.
- 15 Cleaning: If the native panel and LCD screen are dirty, please turn off the power and use soft cloth and neutral cleaner to scrub. Do not use hard cloth or paint thinner, alcohol and other volatile solvents to avoid damaging the surface.

Special announcement

Attention: Please follow the instruction manual when using this unit. The damage caused by illegal operation is not covered by the warranty. All operations should be based on the actual product.

Related to software upgrade, please contact with local dealers.

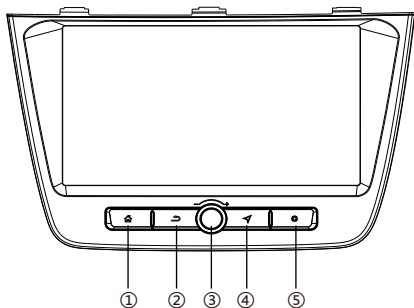
A series of abnormal conditions caused by unauthorized installation of unauthorized software are outside the scope of free warranty.

- 1 The appearance of the product shown in this manual may differ from the physical object. Please refer to the physical object.
- 2 The example of the picture used in this manual may differ from the actual picture. Please refer to the actual picture.
- 3 This manual is only used as users guide, not as a maintenance service basis. Sorry for no further notice of product upgrades and updates or related parameters changes, please understand.
- 4 This manual is copyrighted by our company. Without permission, no unit or individual is permitted to

use any part or all of this manual for commercial purposes.

- 5 This manual includes the latest information as of the date when the manual is printed. Shanghai auto general motors co. LTD. is responsible for the revision and description of the manual and reserves the right to change without notice. Some of the schematic drawings in this manual are for reference only. If the picture does not match the kind, please in kind prevail.
- 6 The company has the right of final interpretation of this manual.
- 7 The product implementation standard is Q/320411XK002-2016.

Preparing before using



- ① Home: press the button to return to the main interface.
- ② Return: press to return to the previous level.
- ③ Power: in the ACC ON startup state, press the button. short to mute the device and press the button long for 2 seconds to enter the standby long for 2 seconds to enter the standby state. At this time, press the button short to exit the standby state. In the shutdown state, press down to wake up the host. At this point, short press to mute the host and long press for 2

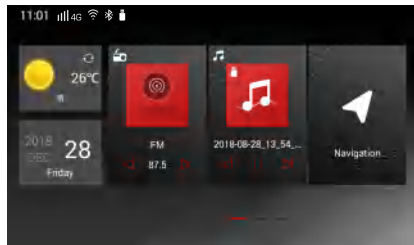
seconds to shut down the host. Turn left to lower the volume; Rotate to the right to increase the volume.

- ④ Navigation: click to enter the navigation interface.
- ⑤ Setting: press down to enter the setting interface, and press long to enter the voice interface.

Basic Operation

Main Menu

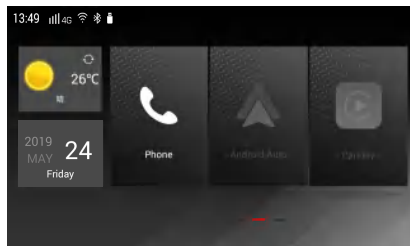
After the car is started or ACC is opened and other devices are started,the main menu interface can be entered.



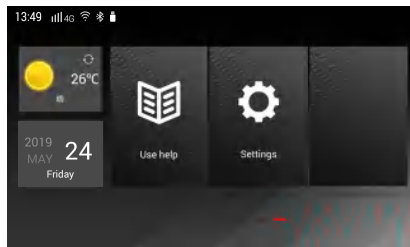
Radio-can enter the Radio interface

Merdia- can enter the Merdia Player interface.

Navigation-can enter the navigation interface.



Phone-can enter the Phone interface.



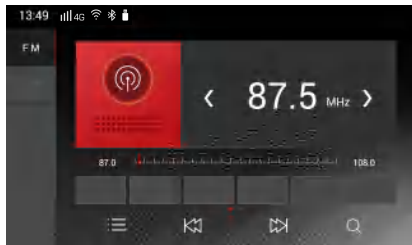
Use help-you can enter the use help interface.

Settings-can enter the setting interface.

Basic Operation

Radio

Touch the [Radio] button in the main menu, then enter button in the main menu, then enter connection page.



Press the **FM** button to switch FM frequency band of the radio.

Press the **AM** button to switch radio AM frequency band.

Click **<** or **>** button to realize one-step frequency point search.

Press the **☰** button to enter the interface of radio list (the first touch will automatically retrieve and save the

valid frequency points to the list).

Press **⏮** or **⏭** button to achieve radio frequency point SEEK-/+.

Press the **🔍** button to search and overwrite the stored radio station.

Manually save frequency points:

Example: long press the save station button to display the highlighted state of the frequency point, that is, to save the frequency point.

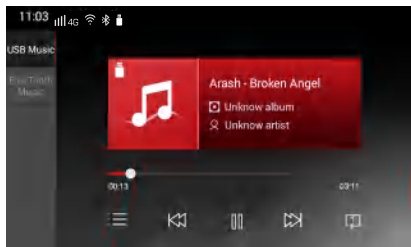
Media

Touch the [Media] button in the main menu, then enter Media Player connection page.

USB Music

Click the button of USB Music to enter the interface of USB music.

Basic Operation



Press the  button to switch the previous one.

Press the  button to switch to the next one.

Press the  button to pause the current music.

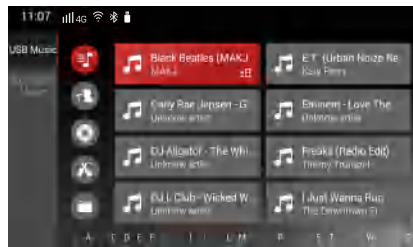
Press the  button to start playing the current music.

Currently displayed as , play status is in sequential play mode.

The current display is , and the play back status is in single loop mode.

The current display is , and the playing state is in random play mode.

Click the  button on the USB Music interface to enter the list of songs.



Press the  button to switch to the list of songs.

Press the  button to switch to the list of songs.

Press the  button to switch to the album list.

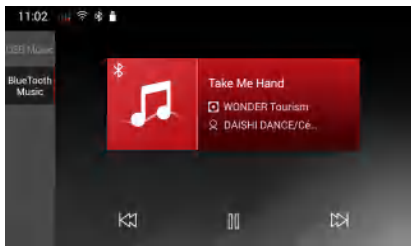
Press the  button to switch to the genre list.

Press the  button to switch to the folder list.

Basic Operation

Bluetooth Music

Touch the button of Bluetooth Music to enter the interface of bluetooth music.



Press the  button to switch the previous one.

Press the  button to switch to the next one.

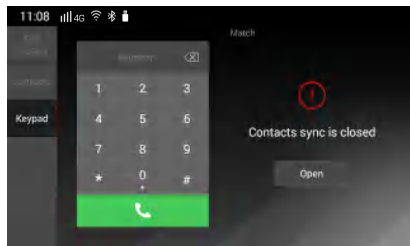
Press the  button to pause the current music.

Press the  button to start playing the current music.

Note: USB Music and Bluetooth Music need to be connected to USB and bluetooth before they can be used.

Phone

Press the [phone] button on the main menu to enter the phone interface.



If the bluetooth is not connected, enter the bluetooth setting interface to modify the device name.

Under the condition of bluetooth connection, bluetooth phone realizes the function of calling, synchronizing contacts, synchronizing call records and common contacts.

Call History-access to the call history interface.

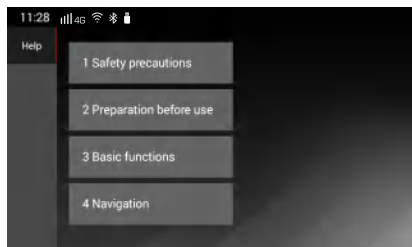
Contacts-access to the contacts interface.

Keypad-can enter keypad interface.

Basic Operation

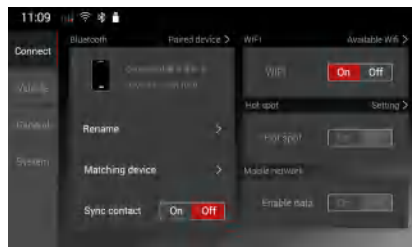
Use Help

Press the [Use Help] button to enter the Use Help interface.



Settings

Press the [setting] button on the main menu to enter the setting interface.



Paired device-view bluetooth paired devices.

Rename-can modify bluetooth device name.

Matching device-optionally disconnect or connect to a new device.

Sync contact-optionally turns on or off sync contacts.

Available wiifi-optional available wireless network.

WIFI-WIFI can be turned on or off.

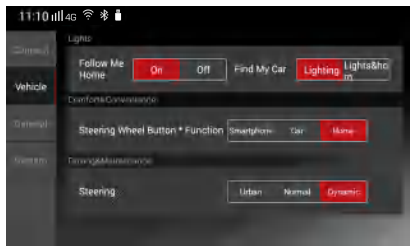
Hot spots settings-hot spots can be set.

Hot spot-optionally turns on or off hot spots.

Mobile network Enable data-optionally turn on or off mobile data.

Basic Operation

Press the [vehicle] button on the setting interface to enter the vehicle setting interface.



Car lights Follow Me Home-you can choose to turn them on or off to follow me home.

Car light Find My Car-can be turned on or off to find my car.

Steering Wheel Button*Function-select mobile phone, car or home page mode.

Steering-select city, standard or dynamic mode.

Press the [general] button on the setting interface to enter the general setting interface.



Brightness-adjustable brightness.

Prompt Vol-adjustable navigation and voice prompt volume.

Phone Vol-adjustable phone volume.

Media Vol-adjustable media volume.

Volume adjusted by speed-it can be set in off, low, medium and high modes.

Sound effect-different sound categories can be selected or customized by adjusting bass, alto and treble.

Sound field-press the add and subtract keys before and after, or drag the cursor to adjust the  cursor to adjust the sound field.

Basic Operation

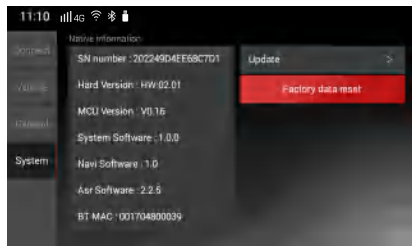
Language-can be set to English or Espana.

Theme-can be set to red&black, green, purple.

Temperature-can be set to °C or °F.

Time-can be set to 12H or 24H.

Press the [system] button on the setting interface to enter the system setting interface.



Native information can be viewed.

factory date reset-optionally factory date reset

Navigation

Navigation

Press the Navigation button on the main menu to enter the navigation interface.



1 Basic map interaction

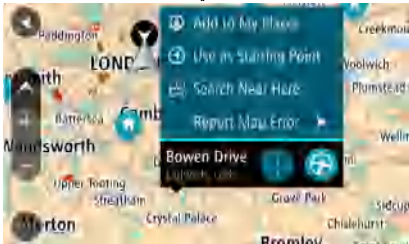
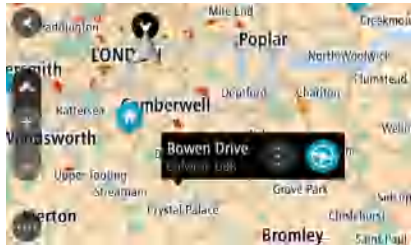
Users can easily pinch to zoom and pan to explore the map. In addition to gestures, user can use zoom controls to zoom the map.



2 Selecting location

Users can select any location by long pressing on the map. The system will display a Contextual Pop-up containing a reversed geocoded address of the selected location. In addition to the address, the pop up contains a main action button and an option to access more actions grouped in a Contextual Menu. The pop-up and menu are called contextual as their content is contextually aware and differs depending on the selected location.

Navigation



3 Straight On NIP(SONIP)

When a user is driving and facing a long straight stretch of road of a few kilometers, the NIP shows the next non-straight instruction. However, the user might confuse the instruction which meant for kilometers away with the instruction at the upcoming exits. So, we introduced the SONIP (Straight On Next Instruction Panel) to help the user to focus on passing the upcoming exit. The SONIP is currently available for highways only.



The SONIP contains only arrows:

Straight arrows are highlighted instructing the user to go straight on.

Lane information is displayed if available. The SONIP

Navigation

disappears after passing a decision point or after tapping it. After the SONIP disappears, the NIP reappears. zoom controls to zoom the map.

4 Guidance map view

The guidance view is used to guide the user along the route is normally in 3D, but can be set to 2D in Settings, under the Appearance option. The guidance view is shown when the user starts driving. The current location and details along the route, including 3D buildings in cities are shown.



By default, the map will zoom in automatically to the next turn so that the user can have a good overview of the next instruction. The user can change this behavior

in Settings, under Appearance, by selecting the option to zoom in based on road type or by switching off the automatic zooming feature.

The map toggle button in the guidance  view indicates the actual direction of driving.

5 Navigation buttons

On the Home screen (overview or guidance mode), the Main Menu button can be selected to open the Main Menu. When there is no route planned the Menu button is extended with the label Menu.

The following navigation buttons are available in the Main Menu:

Icon	Name	Behavior
	Search	Select this button to Current search for an address, a route to that location.
	Add Home/ Drive Home	Select this button to set the Home location if not already set. Otherwise, select this button to plan a route to Home.

Navigation

	Drive to Work	Select this button to plan a route to the Work location. This button available only if the Work location is set.
	Recent destination	Select this button to plan a route to a recent destination.
	Current Route	Select this button to clear or change the planned route.
	My Places	Select this button to show saved places.
	My Routes	Select this button to show saved routes.
	Parking	Select this button to find car parks.
	Petrol Station	Select this button to find petrol stations

Other buttons

The following buttons are available in the Main Menu screen, in addition to the navigation

buttons:

Icon	Name	Behavior
	Search	Select this button to open the Settings Menu.
	Help	Select this button to open the Help Menu.
	Edit button	Select this button to reorder menu items.
	Back button	Select this button to go back to the previous screen.
	Home button	Select this button to go to the Home screen (overview mode or guidance mode).

Navigation

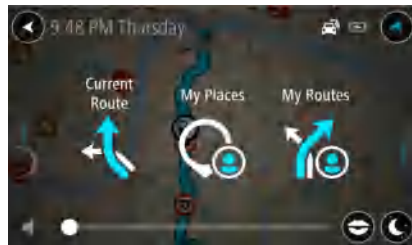
	Voice Instructions ON	Select this button will switch off voice instructions. the user will no longer hear spoken route instructions but will still hear information such as traffic information and warning sounds.
	Voice Instructions OFF	Select this button will switch on voice instructions.
	Night mode	Select this button to increase the brightness of the screen and display the map in brighter colors.
	Day mode	Select this button to decrease the brightness of the screen and display the map in darker colors.

Voice Instructions ON/OFF and Night/Day mode buttons are toggle buttons. Their icons reflect the actual state of the functionality.

6 Status Bar

The Status bar is displayed at the top of the Main Menu

screen. It notifies the user about a status of some system properties or about a status of some services. Examples include: GPS signal status and Traffic services status.



7 Quick menu

For quick and easy access to functions that are related to the current location while driving, Nav App introduces the Quick Menu. The menu contains the following options:

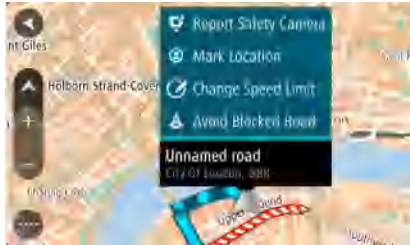
- Mark Location
- Report Speed Limit
- Avoid Blocked Road

These functions are described in the sections that follow.

The Quick menu is activated by tapping the chevron icon

Navigation

on the map or tapping the Speed Panel both in 2D and 3D map view.



8 Address or city search

A user can enter a full address (e.g. 23 Oxford street, London), partial address (e.g. Oxford street or Oxford street, London), city name or a city area. The system will show matching results as the user types.

If the user has entered a full address, the user will be able to preview that address on the map when the matching result is selected. If the user has selected a partial address, the user is offered a possibility to either type a house number or specify a cross road in order to finalize the address input. If neither of these is specified, the selected location will be in the middle of the selected street. If the user enters a house number, that is not available in the map data, the closest house number will be suggested.



Navigation

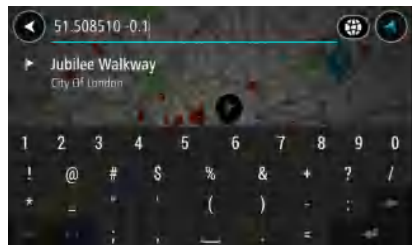
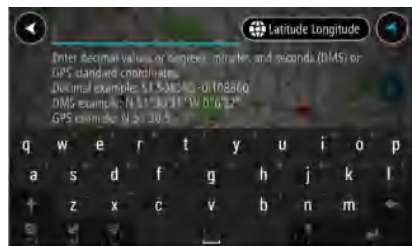
If the user enters a city name or area, the matched result will show at the top of the result list. By selecting a city or an area, the user will be asked to specify an address in that city or area.

9 Latitude Longitude search

Users can search for a pair of coordinates by selecting Latitude Longitude search type. The keyboard would change to a special keyboard for coordinate entry. Coordinates can be entered in one of the following formats:

- Decimal values, for example, 51.508742-0.142822.
- Degrees, minutes and seconds, for example, N 51°30' 31" W 0°08'34".
- GPS standard coordinates, for example, N 51 30.525 W 008.569.

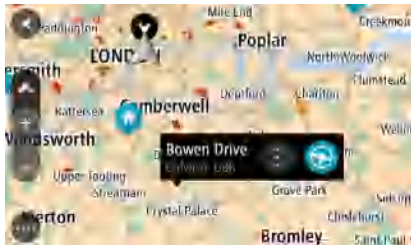
If the pair of coordinates can be resolved to a meaningful name (area, city or address) then the result will be shown in the result list. If it cannot be resolved to a meaningful name as there is no map matched location, the system will show the coordinates in the result list.



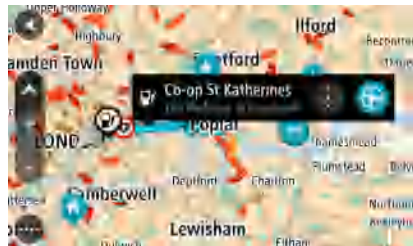
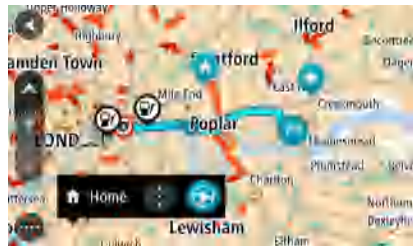
Navigation

10 Planning a Route using the map in Home screen

Users can easily plan a route by selecting a destination on the map in the Home screen. User can browse map using the zooming controls or any of supported gestures to find a destination (See Section 0). By the long press at the selected location, the system will display the contextual pop up containing Drive button.



The user can also tap on any favorite location or POI displayed on the map, to plan a route to it.

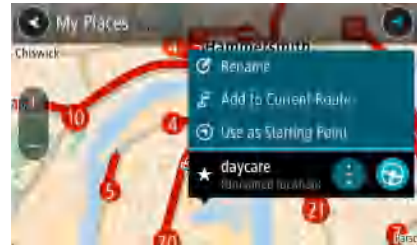
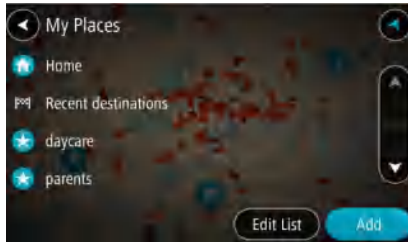


Navigation

When the user taps the Drive button, the system will plan a route from the current location to the selected destination. The route planning behavior is the same as described in Section Planning a Route using Search.

11 Planning a Route using My Places

A user can select a destination by selecting one of the favorite locations or recent destination listed in the My Places menu. The user can also access recently driven destination via My Places menu.

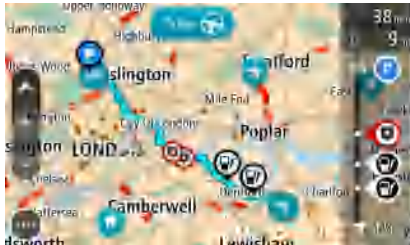
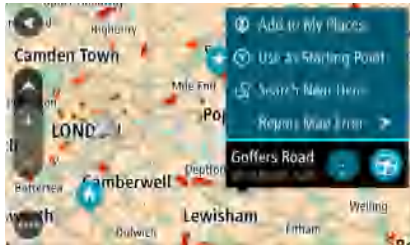


Once a favorite location or a recent destination is selected, the user is brought to a map preview mode where user can select the Drive option to plan a route to the selected destination.

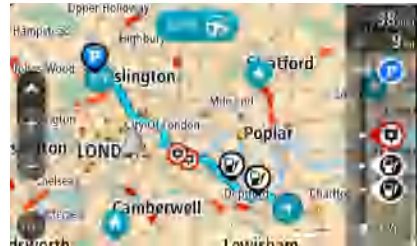
12 Planning a Route in advance

Users can plan a route in advance by selecting a starting point that is not the same as the current location. A user can select a starting point in the same ways the user can select the destination i.e. via Search, via the map, via My Places, via Parking or via the Petrol Station stoppon. Once a location is selected, the user can select the Use as Starting Point option from its contextual menu to set that location as the starting point .

Navigation



If there was a route already planned the route will be re-planned from the starting point to the existing destination. Otherwise, the user will need to set a destination after setting the starting point.



The planned route is not an active route meaning that the user won't get guidance for this route. Instead of the arrival time the duration is shown in the ETA panel.

The user can remove the starting point, which will result in planning a route from the current location to the destination if there was a destination set. Similarly, the user can turn the starting point into a stop, which will result in planning a route from the current location to the destination via that point.

Navigation

13 Route Management

When there is a route planned, the user can manage the route by selecting one of the following options available in Current Route menu:

Icon	Name	Behavior
	Clear Route	Select this button to clear the currently planned route.
	Skip Next Stop	Select this button to skip next stop on the currently planned route.
	Find Alternative	Select this button to get two alternative routes for the currently planned route.
	Avoid Blocked Road	Select this button to avoid blocked road ahead.
	Avoid Toll Roads and More	Select this button to avoid ferries, toll plan road, car-pool lanes or unpaved roads on the currently planned route.

	current route	Select this button to avoid a part of the current route.
	Show Instructions	Select this button to get list of instructions for the currently planned route.
	Add Stop to Route	Select this button to add a stop to the currently planned route.
	Add to My Routes	Select this button to add the currently planned route to My Routes.
	Change Route Type	Select this button to change the type of the currently planned route.
	Reorder Stops	Select this button to reorder stops of the currently planned route.
	Play Route Preview	Select this button to play a route preview.

Navigation

	Drive to Route	Select this button to calculate a route from the current location to the starting point of the route.
	Stop Route Preview	Select this button to stop route preview.

All the options available in the Current Route menu are also available in the contextual menu of the route object on the map.

14 Alternative routes at route planning (Find Alternative)

Once a route is planned the user can select the Find Alternative option in the Current Route menu in order to get two alternatives for his route. The system will calculate distinctive alternatives by penalizing approximately 80% of the route. The user can compare alternatives by difference in time and/or length.

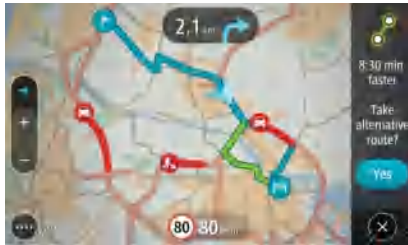


The user can select a route, by tapping buttons at the bottom of the screen or by tapping on the route itself. The selected alternative becomes the active route.

If the user selects the Find Alternative option while following a route, the system will fully replan the route from the current location and offer two additional alternatives to preview that address on the map when the matching result is selected. If the user has selected a partial address.

15 Alternative routes while driving-decide by steering
Based on the received traffic information the system calculates routes in the background and proposes an alternative route if a faster route is found.

Navigation



NavApp will warn you if there are faster alternatives available

When this dialogue pops up, the system will also prompt the user using voice that a new alternative was found so that the user can select the user does not provide any input within certain period of the time, the dialogue will time-out and alternative route proposal will be ignored.

16. Show turn-by-turn instructions

The user can preview a list of turn-by-turn instructions by selecting the Show Instructions option in the Current Route menu or by tapping the Next Instruction Panel. The distance displayed in the list is the distance between the instructions.



If the feature is activated while the user is driving, the presented list is a snapshot of the list of instructions made at the moment the user selected the Show Instructions option. The user can preview an instruction on the map by selecting the instruction from the list.

17 Traffic

The number of vehicles on the road network is increasing, congestion is building and travel times are lengthening. Drivers are faced with congestion more frequently, and users of mapping and navigation applications are seeking ways to save time getting to their destinations.

TomTom Traffic provides the most accurate information about traffic jams and trustworthy ETAs that help drivers

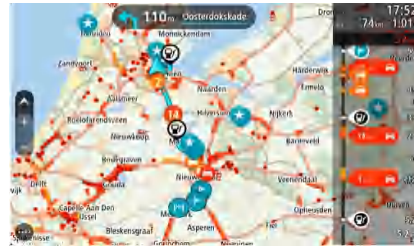
Navigation

make better decisions that save time, reduce stress and make the roads a safer place. TomTom Traffic will send updates to the navigation application every 2 minutes and will adjust the Estimated Time of Arrival (ETA) when applicable.

NavApp provides the best view on traffic as we are providing a view beyond the next turn instruction. As soon as the navigation application is started a 2D map is shown including the traffic situation, this provides the best overview from a user point of view. As soon as the drive starts, the application will automatically switch to the guidance view with the relevant traffic information along the route, not only the next upcoming incident but also traffic jams that will be encountered further along the journey.



TomTom Traffic in 2D Map View



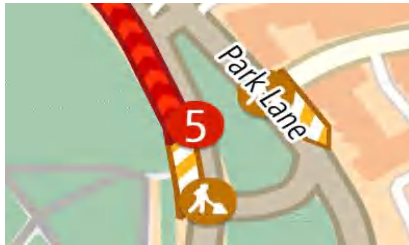
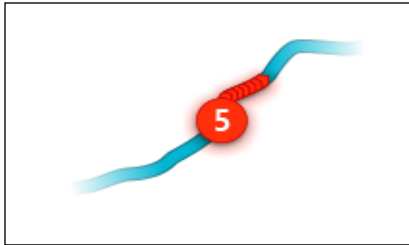
TomTom Traffic in 2D Map View with a route planned

18 Traffic information on the map

The traffic tubes on the map reflect the current situation in length. The color reflects the traffic flow speed. When the map is zoomed out, an icon i.e. a panel will be displayed at the start of a traffic tube reflecting the actual traffic delay. When a route is planned, traffic incidents that intersect a planned route will always have the delay displayed regardless of the zoom level. The delay displayed for incidents that intersect the route is an expected delay by the time one gets to that part of the route. If there is no delay expected, the icon will show only the incident type without a delay time. The minimum duration of a traffic jam or incident is 1 minute. The actual delay must be 30 seconds or more. This value is rounded up to a

Navigation

minute while a delay under 30 seconds is not shown.



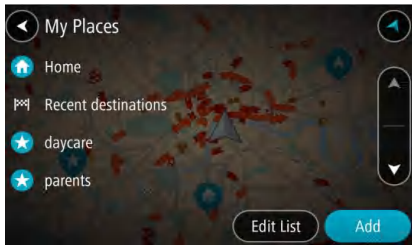
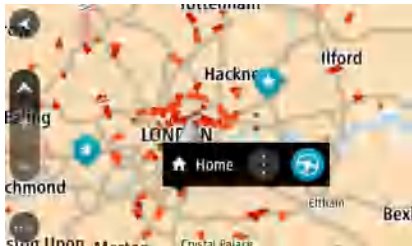
NavApp allows interaction with the map to see detailed real time traffic information. The traffic pop-up contains the following information if available: type, cause, length and delay.



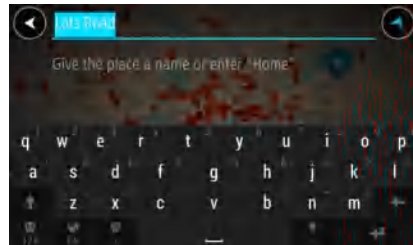
19 My Places

Users can see their favorite locations on the map and personalize their map with My Places. This makes it easier to find and navigate to favorite locations again and again. Favorite locations are also stored and accessible via the My Places menu. Recently driven destinations can also be accessed via the My Places menu.

Navigation



Users can create favorite locations either via the map or using Search.

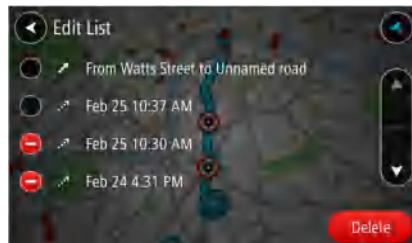
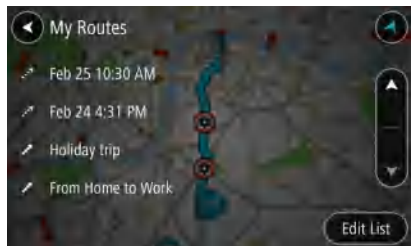


Users can also rename or delete their favorite locations.

Navigation

20 My Routes

Users can save their favourite routes, itineraries in order to easily select them at any point of time. The saved routes and itineraries can be accessed via the My Routes menu. Users can name saved routes and itineraries. Users can also delete routes and itineraries from My Routes menu. Recorded tracks are also accessed via My Routes menu.



21 User Settings

Users can personalize their devices by changing the default setting options.



Navigation

The following settings options are available in NavApp:

Note: Please refer to Help for detailed steps and assistance.

Icon	Name	Behavior
	Appearance	Select this option to change appearance of Nav App by, for example, customizing which elements will be displayed in the Route Bar or Guidance view.
	Maps	Select this option to change the currently selected map.
	Route Planning	Select this option to change route planning preferences such as route type or route features.
	Sounds & Warnings	Select this option to customize safety and speed camera warnings.
	Units	Select this option set distance units

Technical Parameter

Operation Environment:

ITEM	SPECIFICATION
Operating voltage	12V (DC)
Voltage range	9~16V (DC)
Max current	Max 10A
Closed-circuit current	Max 1.2mA
Output power	$\geq 21\text{W/CH}$
Speaker impedance	4 ohm
Operating Temperature	-30 +80°C

FCC Warnings

Please note that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

--Consult the dealer or an experienced radio/TV technician for help.

RF exposure statement

This equipment complies with radio frequency exposure limits set forth by the FCC for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the device and the user or bystanders.

This device must not be co-located or operating in conjunction with any other antenna or transmitter.



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