

Where do you want to go?

MΔp

TRAIL

G

HERF

OPTION

Address/Intersection

Point of Interest

Address Book

⊷, Trip Planner

+ Previous Destination

NAV ONE

Printed in the Philippines Part No. 480-180-P

menu

Nothing comes close to a Cobra®

QUICK REFERENCE MANUAL FOR MOBILE NAVIGATION SYSTEM:

NAV $\mathcal{D} \wedge E$ 3000

English

Controls and indicators





Menu button (MENU) Goes to the & Main menu.

Enter button (ENTER) Enters the current selection/entry.

Up button () Scrolls up through list line-by-line, scrolls up character lists, scrolls up increment numbers, moves map cursor up and navigates up in preferences selections.

Down button (>) Scrolls down through list line-by-line, scrolls down character lists, scrolls down decrement numbers, moves map cursor down and navigates down in preferences selections.

Left button () Moves to previous character or number, sequences to previous alphanumeric character group, moves map cursor left and navigates left in preferences selections.

Right button () Moves to next character or number, sequences to next alphanumeric character group, moves map cursor right and navigates right for preferences selections.

2

System logic

System logic

While using the NAV ONE system, the system proceeds from the opening screen to the main menu, then through the processes needed to get to the desired destination as shown. PLEASE DRIVE SAFELY Do not enter route request of average while driving the driving the second state and the driving the second state state driver second state and the second state second state state and state second state state second state second state state second state second state second state second state state second state sec

When the NAV ONE system is turned on, an opening screen and safety reminder are shown and an option is provided to change the language used.



Next, the \square Main menu becomes available that provides five means of selecting a destination. And, that is what the system is all about — to guide users to destinations with maximum confidence and minimum fuss.

⊅ NOTE

Pressing the icon on the LCD will not invoke the function — and may damage the display. Be sure to press only the function button.

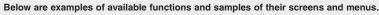
ВАСК

Throughout this manual

] Brackets

Used to identify the highlighted bar or text to be found on the menu.

Screens and menus
Used to identify screens and menus.







Once a destination is selected, the user chooses how to reach the desired destination.



Detours take care of unexpected encounters.

> Trip data tracks progress. Bottom two fields are user selectable.

Important safety information

D

Important safety information

Before installing and using the Cobra NAV ONE system, please read these general precautions and warnings. Without reading the important safety information, the user may be placed in a dangerous situation or may damage the unit before having any practical use from it. Also read pages 7 - 20 in this manual to learn the basics of installing and operating the system. It is strongly recommended to read this entire manual to be familiar with the system's features, and know how to operate it.

Warning symbols · · · and statements

Please pay special attention to the WARNING symbols and statements in this manual.



WARNING

Statements identify conditions that could result in personal injury or loss of life.

WARNINGS

- DO NOT think this NAV ONE is a substitute for personal judgment. The route suggestions should never supersede any local traffic regulation or personal judgment and/or knowledge of safe driving practices. Before making any maneuvers suggested by the NAV ONE system (for example, a U-turn or a left turn), verify that the maneuver can be legally and safely completed. Do not follow route suggestions if they suggest an unsafe or illegal maneuver, would place the vehicle in an unsafe situation or would route the vehicle into an area that could be unsafe.
- DO NOT program this NAV ONE while driving. Only a passenger should operate controls or program the unit while the vehicle is in motion. The driver should not program the system unless the vehicle is parked in a safe location.
- ONLY glance at the screen when necessary and safe to do so. Listen to the computer voice guidance. If prolonged viewing is necessary, pull off the road to a safe location.
- DO NOT use this NAV ONE system to locate emergency services (such as police, fire stations, hospitals and clinics). The database may not include all emergency service providers. Use best judgment and ask for directions in these situations.
- DO NOT position the unit in a location that obstructs the driver's view of the road, instruments or controls to operate the vehicle.
- DO NOT drive the vehicle unless the unit is securely attached to the windshield with the supplied bracket and suction cup or is fastened by other reliable means to keep it from becoming a projectile hazard inside the vehicle in the event of a violent maneuver or collision.
- **DO NOT** mount the unit over airbag panels or within airbag expansion spaces. The force of an expanding airbag can thrust objects in its path toward the driver or passengers with injurious result.
- **DO** position the unit so the screen can be viewed with just a quick glance.
- **DO** set the volume at a level that will allow the hearing of outside traffic and emergency services.

Important safety information

Caution symbols · · · · · · **(**) and statements

Please pay special attention to the CAUTION symbols and statements in this manual.



CAUTION

Statements identify conditions that could cause damage to the system or other equipment.

- The user is responsible for operating this product wisely. This NAV ONE system is intended for use only as a navigational aid and should not be relied upon to the exclusion of other information. Be aware of conditions around the vehicle and compare them to the information provided by the NAV ONE system.
- The Global Positioning System is provided and operated by the U.S. government, which is solely responsible for its accuracy and maintenance. The system is subject to changes, which could affect the accuracy and performance of this NAV ONE system.
- This NAV ONE is not waterproof. Do not allow liquids to splash on it nor expose it to rain during operation or transfer from vehicle to vehicle.
- Do not disassemble or modify the unit as this may lead to damage. If a problem occurs, stop using the system immediately and contact a Cobra dealer. Changes or modifications to the unit may void its compliance with government rules and make it illegal to use.
- The NAV ONE system's map database provides information on suggested routes without regard to factors that may affect the user's driving experience or the time required to arrive at the desired destination. For example, the system does not reflect road detours, closures or construction, some road characteristics (e.g., road surface, slope or grade, weight or height restrictions, etc.), temporary traffic congestion, weather conditions and similar factors. Use personal judgment or the NAV ONE system's detour mode to develop an alternate route if necessary.
- The gyro in the NAV ONE will operate properly only if the unit is in a vertical position. This means that the unit should not be tilted front-to-back or side-to-side. With the unit in the vertical position, it can be rotated in the horizontal plane to any convenient viewing angle.
- Do not remove the unit from the windshield or quick release bracket while the unit is turned on. The NAV ONE contains a hard drive, which spins at high speed while the unit is turned on. Handling the unit while the drive is spinning could damage it. When the unit is off, the hard drive is parked in a more secure condition.
- Dismount the unit when parked. This will not only minimize the chance of theft but will also reduce the unit's exposure to heat and strong sunlight which can shorten the life of the internal components.
- Do read the important safety information section on page 4 of this manual before using this NAV ONE system.

Included in this package, FCC compliance and Industry Canada notice

Included in All of the following items should be in the package with the NAV ONE system. this package

IN THIS MANUAL

FCC ·

compliance

The unit shown is not necessarily the one purchased. Images shown in this manual are for illustration purposes only.



NAV ONE system unit

Mounting bracket with guick release and suction cup

12 volt fused power cord

This quick reference manual for Mobile Navigation Systems

This device complies with Part 15 of the FCC interference limits for Class B digital devices for home or office use. These limits are designed to provide more reasonable protection against harmful interference in a residential installation and are more stringent than "outdoor" requirements.

Operation of this device is subject to the following conditions:

- 1. This device may not cause harmful interference, and
- **2.** This device must accept any interference received, including interference that may cause undesired operation.

Industry · •• For Products Used in Canada **Canada notice**

Operation is subject to the following two (2) conditions:

1. This device may not cause interference, and

2. This device must accept any interference, including interference that may cause undesired operation of the device.

«IC» before the equipment certification number signifies that the Industry Canada technical specifications were met. It does not guarantee that the certified product will operate to the user's satisfaction.

Installation The NAV ONE requires very little installation beyond the need to put it at a convenient location and to secure it in place. The only connection required is between the unit's power socket and the vehicle's 12 volt power socket.

Some vehicles have windshields with metallic coatings or integral heating systems that will block the satellite signals even though the unit "sees" the sky through the glass. In those vehicles, it will be necessary to mount the accessory external antenna outside the vehicle and connect it to the unit. See accessories and order form on pages 27 – 28 for ordering information.

When locating and securing the NAV ONE in the vehicle, keep in mind the warnings and cautions on pages 4 – 5 to allow using the NAV ONE safely while driving the vehicle:

- Put the unit where it is visible at a glance and the voice instructions can be heard.
- Do not put the unit where it will obstruct the driver's view of the road or interfere with use of vehicle instruments and controls.
- Do not put the unit over airbag panels or within airbag expansion spaces.
- Attach the unit to the vehicle so that it does not become a projectile hazard in a collision.
- Position the unit vertically to allow the gvro in the NAV ONE to operate properly.

Two important considerations in positioning the unit are:

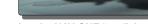
A. Its ability to "see" the sky. Signals from the GPS constellation of satellites are weak and cannot

penetrate the solid portions of the vehicle's structure. The top of the unit contains the GPS antenna and needs maximum exposure to the sky through the windshield. This will allow the unit to receive signals from as many satellites as possible in various vehicle headings.

Do not let the mount block the view of the sky.

Alternative mounting

pitched windshields.











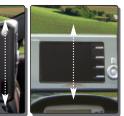


WARNING

If the unit is not securely attached to the vehicle, it can become a projectile hazard to the vehicle's occupants during a violent maneuver or a collision. The unit can cause serious injury under the influence of forces resulting from such accelerations or decelerations.

Secure and ····· connect the NAV ONE

B. The gyro in the NAV ONE will operate properly only if the unit is in a near-vertical position. This means that the unit should not be tilted front-to-back or side-to-side. With the unit in the vertical position, it can be rotated in the horizontal plane to any convenient viewing angle.



The unit should be as close to vertical as possible and not tilted front-to-back or side-to-side. Top view of rotation in the horizontal plane.

To secure and connect the NAV ONE:

- 1. Select a suitable location where the unit can be mounted vertically and clean the mounting area.
- 2. Separate the suction cup and mounting bracket assembly from the unit.
- **3.** FIRMLY press the suction cup against the windshield by applying pressure to the central PRESS button. Be sure the button is pressed all the way in to make sure ALL the air is out of the suction cup.
- 4. While maintaining FIRM pressure on the button, pull the lock lever up or down over the button.
- 5. Test suction cup adhesion by pulling on the bracket. THE ASSEMBLY SHOULD NOT WIGGLE. If it does, unlock the lever and repeat steps 3 and 4.
- 6. Attach the unit to the mounting bracket by means of the quick release feature.
- 7. Plug the power cord into the unit and the vehicle's 12 volt power socket.



Attach the mounting bracket to the windshield.



Attach the unit to the mounting bracket.



Alternative securement

···· Alternative securement of the NAV ONE:

If it is not practical to mount the unit to the windshield with the supplied suction cup and bracket, the user can develop an alternative mounting using the ¼-20 threaded socket — compatible with most camera mounting equipment — in the bottom ofthe unit. The supplied bracket may be removed or left attached when an alternative mounting arrangement is employed. Additional mounting bracket options, that may be more suited to your vehicle, are available at www.cobra.com.

Check for ····· GPS signal

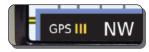
After installation is complete and the vehicle is in an open area, turn on the unit. The GPS signal strength indicator at the lower left corner of the LCD should show four green bars to confirm the antenna is "seeing" the sky properly. If the bars are fewer than four and are either yellow or red, the unit may need to be repositioned.



NAV ONE Signal Indicator



Best signal reception



OK signal reception



Not enough signal reception

Start-up time · · · · · · · ·

When the GPS Navigation System is new (or has been idle for more than seven days or has moved more than 500 miles while off), it can take up to five minutes for the system to lock onto the GPS satellites. After such a start-up, the system should be left turned on for at least 20 minutes to download GPS satellite data. Having updatedsatellite data will allow much faster satellite acquisition and lock — typically less than a minute — when the unit is turned on again.



Removing the · NAV ONE

The NAV ONE should temporarily be removed when parking the vehicle to prevent theft or heat damage. It may also be removed to transfer the entire unit to a different vehicle or to use it at home or in the office to program a trip plan using the optional Cobra indoor adapter.

Temporary removal **C** To temporarily remove the NAV ONE from a vehicle:

- **1.** Unplug the power cord from the vehicle's 12 volt power socket.
- 2. Pull the QUICK RELEASE lever on the back of the unit and remove the unit to store it in a protected location or to use indoors. The suction cup portion of the bracket can be left attached to the windshield for quick reinstallation of the unit.

Transferring the To transfer the NAV ONE to a different vehicle:

- NAV ONE
 - **1.** Unplug the power cord from the vehicle's 12 volt power socket.
 - 2. Rotate the lock lever off the PRESS button, then pull the tab to release the suction cup.
 - **3.** Move the unit to the other vehicle and install it as described on page 7.

Using the GPS unit at home or in the office

To use the NAV ONE at home or in the office to program a trip plan:

- 1. Connect the unit to an electrical outlet using an optional Cobra indoor adapter developed especially for use with the NAV ONE. See accessories and order form on pages 27 – 28 for information on ordering a Cobra adapter.
- 2. Turn the unit on and program the desired trip as referenced in the trip planner section on page 15.



The suction cup portion of the bracket can be left attached to the windshield for quick reinstallation.

Basic operation and start-up

Basic operation and start-up

Be sure to read the IMPORTANT SAFETY INFORMATION on pages 4 and 5 before the first use of the NAV ONE system.

Power on/off

After installation is complete and the vehicle is in an open area, turn on the unit (press and hold the POWER button on the side of the unit). Each time the unit is turned on, a start-up screen appears on the LCD followed by a safety reminder and an opportunity to select a language. Then, pressing ENTER will bring up either the A Main menu or the Continue route guidance menu. Each time the system is turned off (press the POWER button again), the system will retain all information to be recalled when it is turned on again.

When the GPS Navigation System is new (or has been idle for more than seven days or has moved more than 500 miles while off), it can take up to five minutes for the system to lock onto the GPS satellites. After such a start-up, the system should be left turned on for at least 20 minutes to download GPS satellite data. Having updated satellite data will allow much faster satellite acquisition and lock — typically less than a minute when the unit is turned on again.

Display saver and sleep mode

The 🗗 Display Saver screen conserves power and the life of the LCD whenever the system is in sleep mode. Sleep mode is activated automatically if the user takes no action at the EP PLEASE DRIVE SAFELY screen for ten seconds after it appears. This occurs only at the 🗗 PLEASE DRIVE SAFELY screen and is different from a SmartPower shutdown. See page 12 for information on SmartPower.

© 2003, 2004, NAVIGATION TECHNOLOGIES. ALL RIGHTS RESERVED. PLEASE DRIVE SAFELY

<u>ELECTRONICS</u>

Mobile Navigation System

Do not enter route request or make any adjustment to this device while driving. Safe and lawful vehicle use is the driver's responsibility. Failure to pay attention to the road and traffic conditions could result in death, serious injury or property damage. This unit is for guidance only. Do not follow any hazardous, unsafe or unlawful route suggestions. Press ENTER to accept.



Preferences

Preferences

Users can select settings from the ₽ Preferences menu as shown below. To reach this menu, press the OPTION function button at the ₽ Main menu, then ENTER at the [Preferences] bar on the ₽ Option menu.

Preferences menu

Preferences		Options		
Volume		0 (off – no sound)		
- 0 1 2 3 4 5 6 7 8 + 1 - 8 (softest to loudest)				
Zoom Level				
- 1 2 3	4 5 +	1 – 5 (smallest to largest area)		
Map View	Heading Up >	Heading up or north up		
Auto Reroute	On >	On or off		
Color Scheme	Auto >	Auto, day or night		
Units	Mile > Mile, mile/yd, km or km/m			
Smart Power	On >	On or off		
Key Click	On >	On or off		

LCD color scheme

Map detail item	Day	Night	
Airports	Light brown	Light brown	
Arteries	Light gray	Light gray	
Background	White	Black	
Expressways	Orange	Orange	
Freeways/interstates	Red	Red	
Parks/golf courses/national forests	Green	Green	
Railroads	Yellow	Yellow	
Rivers	Blue	Blue	
Route	Light green Light		
Streets	Dark gray	Light gray	
Street names	Dark gray	White	
Vehicle icon	White and magenta triangle		

The preferences that the user can change are:

Volume — sets the volume level from softest at 1 to loudest at 8 (0 is off – no sound).

Zoom level — limits the map to the immediate vicinity at 1 and shows the widest area at 5.

Map view — allows either current heading or north to be always at the top of the map.

Auto reroute — when on, causes the system to automatically recalculate the route to the desired destination if the driver strays from the route originally developed.

Color scheme — allows the user to default the system to either day or night mode or to allow the system to automatically switch between day or night mode in response to the light sensor. Units — provides a choice of English or metric values.

SmartPower — when SmartPower is off, the system operates until it is turned off with the POWER button. When SmartPower is on, it shuts down the system in response to a combination of all three conditions:

- No vehicle motion or satellite lock for 10 minutes
- No button presses for 10 minutes
- □ Engine not running as indicated by supply voltage.

Key click — provides a choice of beep to confirm button press or silent operation.

Set clock is a function. It is available only at the \square Preferences menu.

⊅ NOTE

Cobra recommends that the system be used for a while with the default settings; then users may make changes.

NOTE

With SmartPower off and the unit plugged into a power socket that does not turn off with the ignition, NAV ONE system operation at full power can drain the vehicle's battery if parked for a long time, such as at an airport lot. Cobra recommends this feature be left at the factory setting of on.

⊅ NOTE

If the desired option cannot be seen:

 Scroll ▲ or ▼ until it comes on the screen.

Text and list entries (spell and list modes)

Text and list entries (spell and list modes)

The spell and list modes are used to enter information or choose from lists when selecting destinations, entering data item names and editing entries. Most times, the system will default to list mode, but both methods are available by using the SPELL and LIST function buttons to toggle between them. Using a combination of the methods often is the fastest way to make an entry.

Spell mode

Spell mode enables the user to spell out information using the alphanumeric and numeric-only character loops built into the system as shown at right.

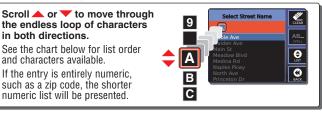
When spelling, scroll \blacktriangle or \checkmark to the first character of the entry; then press the button to advance to the next character(s).

To make corrections, press the \triangleleft button to erase one character at a time or press the CLEAR function button to erase the whole entry and start over.

List mode

List mode enables the user to select entries from data lists in the system database. When selecting from a list, the \blacktriangle or \checkmark buttons scroll up or down the list.

Scroll feature in spell mode



List order and characters available



0 1 2 3 4 5 6 7 8 9

The "blank" character shown in these diagrams is the space character. When scrolling \blacktriangle or \checkmark the characters will move in an endless loop.

	A
	Appleg
The for buttons ump to the previous or next alphabetic group in the list.	Arial D Blackst Brickya Byron S Cornell Cypres



Destination selection, Route selection limits and Route calculation

Destination selection

Each trip begins with a destination in mind. The 🗗 Main menu provides five methods of choosing one. After choosing a method, press ENTER to use it.

- A specific street address or an intersection of two streets by spelling or choosing from lists.
- A point of interest, such as a park, restaurant or shopping mall, from extensive lists in the system.
- The previous origin or any of the last nine destinations entered in the system.
- Any of up to 100 locations that can be saved to the address book.
- Multiple destinations (up to ten) in sequence that are saved as named trips (up to five).

Route selection limits

When ENTER or the GO function button is pressed after selecting a destination, the system proceeds to the 🗗 Select Route Criteria menu. The user can define how the system will develop the route to the destination by specifying:

- Shortest distance or time
- Whether to use freeways and toll roads

The most recent choices are shown when the menu opens.

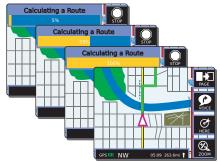
Route calculation

When ENTER or the GO function button is pressed at the 🗗 Select Route Criteria menu, the system develops the route.

Calculation can be stopped with the STOP function to change route criteria or to cancel it altogether. When the calculation is finished, the system will automatically proceed to \square Route Guidance at the \square Map screen with the route highlighted in light green to begin navigation along it. The voice prompt will say, "Please proceed to the highlighted route."







Trip planner

Trip planner

In addition to individual destinations, the NAV ONE can store up to five trips with up to ten destinations to be visited in sequence on each trip. Trips stored in system memory can be repeatedly recalled and used, and trips can be added, named, edited and deleted.

Plan a trip

Select ADD at the 🗗 Trip Planner menu and enter a name for the trip. Then, add destinations using the programming sequences for Address/Intersection, Point of Interest, Previous Destination, Address Book or Current Location. After all destinations have been added, press the SAVE function button.

Navigate a trip

Select the trip at the \boxdot Trip Planner menu and press ENTER. Select any destination on the list as the first one to be reached and press ENTER or the GO function button to proceed to the \boxdot Select Route Criteria menu, then route calculation. Navigate to the destination using Route Guidance procedures.

As each destination is reached, the next one can be selected and navigated to.

At the end of the trip, or at any point along it, select [Discontinue Trip] and press ENTER to return to the 🗗 Main menu.

Modify a trip

Any trip stored in system memory can be deleted. Also trip and destination names can be changed and destinations can be added and deleted by selecting the trip and pressing the EDIT function button and following the steps on succeeding menus.



Add Destination to Trip	
Address/Intersection	
Point of Interest	
Previous Destination	
Address Book	
Current Location	ВАСК



Address/intersection

Address/intersection

The NAV ONE system allows selection of any street address or intersection in its database as a destination.

Starting with zip code (postal code)

When selecting an address or intersection, the best starting point is the zip code for the desired destination. By entering the zip code as the first element of the address, the NAV ONE system will zoom in and look at only that area. It will always return an associated state and either a single city or a short list to choose from if more than one city shares the zip code. It allows the quickest destination address selection. At the 🗗 Address menu, scroll 🔺 or 💙 to zip and press ENTER.

Starting with state (province)

If the zip code is not known, the state in which the destination is located must be the first address element to be entered. This also allows the system to zoom in on a segment of its database for efficient searching. At the 🗗 Address menu, scroll 🔺 or 💙 to [State] and press ENTER.

Completing the address or intersection

After the state has been selected, scroll \blacktriangle or \checkmark to the next blank elements — city, street, and number or cross-street — in turn. Press ENTER and select the element using spell or list modes.

Once the address or intersection is completely filled in, the GO function button will become active. Pressing ENTER or the GO function button will proceed to the 🗗 Select Route Criteria menu.

Street or intersection

The INTERSECTION function button toggles the system from the 🗗 Address menu to the 🗗 Intersection menu. The address element entry process is the same for both methods until the last step at which either the street number or the cross street is entered. It is possible to toggle between these modes after the state, city and street have been entered. Instructions for the 🗗 Address menu apply to the 🗗 Intersection menu as well.

Clear function

When using the address/intersection method to select a destination, the CLEAR function will clear the highlighted entry as well as any sub-fields. For instance, clearing the city field will also clear the street and number or cross-street fields.

7 NOTE

In any list, in addition to scrolling individual items using the or buttons, you can scroll more quickly by using the or buttons to scroll by starting letter.







Point of interest

Point of interest

Selecting a POI as a destination allows a public place to be found without necessarily knowing the address. The NAV ONE database includes thousands of points of interest in over 40 categories from airports to museums to restaurants. This mode can also be used as a means of finding the address and telephone number of any location in the POI database — the data is shown in the final screen of each selection process.

Select by category

Selects one of the categories from the NAV ONE database, then narrows the choice to one of the points in that category. At the [By Category] bar of the $rac{rac}$ Select POI Search Method menu, press ENTER to proceed to the $rac{rac}$ Select POI Category menu. Scroll \checkmark or \checkmark to the desired category and press ENTER to proceed to a series of menus that allow refining the selection to a single location.

Select by name

Allows the name of the destination to be entered. Then narrows the choice to one location if there are multiple locations with the same name, such as a restaurant chain. At the [By Name] bar of the 🗗 Select POI Search Method menu, press ENTER to proceed to a series of menus that allow completion of the selection.

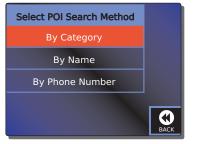
Select by phone number

Allows the telephone number of the destination to be entered. Then narrows the choice to one location if there are multiple locations with the same telephone number, such as an 800 number for a hotel chain. At the [By Phone Number] bar of the Select POI Search Method menu, press ENTER to proceed to a series of menus that allow completion of the selection.

Search limits

When the [Sort by Distance] preference is chosen during the POI selection process, the system will return a list of locations with the nearest one first. Some of those may be across the border of a nearby state. When the STATE function icon is shown, the system will search only in that state. In that case, change the state to find points in other states.



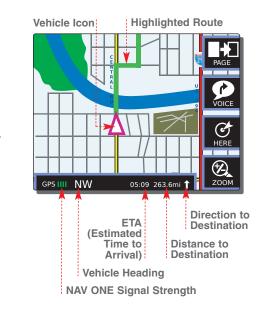




Route guidance

Route guidance

Once a destination is chosen and a route is calculated, the NAV ONE system is ready to provide guidance to navigate the trip from the starting voice prompt, "Please proceed to the highlighted route," until the final announcement, "Arrived at destination."



Navigation

During navigation, four screens are available. The 🗗 Map screen will come up automatically after route calculation, but whichever is most useful at any given time can be selected:



Map Shows the map with the vehicle icon and the highlighted route.



Guide

Shows an enlarged, fullscreen version of each next maneuver to be performed.



Planned Route

Shows the currently traveled road and a scrollable list of the next roads. It is the only navigation screen with the edit function.



Provides comprehensive data about the trip in progress or the one most recently completed.

Trip Data

Off route events

Off route events

During a trip, the NAV ONE system offers help if a turn is missed or a side trip is taken from a calculated route. It also allows changes to be made enroute — including detours, changing route criteria and trip plans, and canceling navigation.

Leaving a calculated route

Within a short distance of the vehicle leaving a calculated route, the NAV ONE system will recognize the deviation and provide helpful information. In the case of a missed turn or similar situation, the system will provide voice prompts, such as, "Please make a legal U-turn," to return to the calculated route while the system remains in the active navigation screen.

If a longer deviation is made and the prompts to return to the route are ignored, the system will calculate a new route to the destination — often a mini-route to intercept the original route at a later point — provided the auto reroute option is turned on. The new route will be displayed in the active navigation screen and the voice prompts will adjust accordingly. If auto reroute is turned off, the system will suspend guidance until the user takes some action such as [Detour] or [Cance].

Select Routing Method	
Detour	
Route Criteria	VOICE
Trip Planner	
Cancel Route	
	ВАСК

Changes enroute

Changes can be made at any time during a trip, but only from the \ominus Planned Route Navigation screen. At that screen, press the EDIT function button to bring up the \ominus Select Routing Method menu.



Detour

In case of road construction, traffic jams or undesirable roads, the NAV ONE system can quickly calculate a detour to reach the currently selected destination. At the rightarrow to [Detour] and press ENTER to proceed to the rightarrow to the type of detour desired and press ENTER. Successive menus will allow completion of the selected detour type.



Cancel navigation

To cancel the current trip, scroll ▲ or ▼ to [Cancel] at the ➡ Select Routing Method menu, then press ENTER. At the ➡ Confirm Cancellation screen, press ENTER to confirm and return to the ➡ Main menu.

Other useful features

Other useful features

Where do you want to go?	
Address/Intersection	мар
Point of Interest	TRAIL
Previous Destination	Ċ
Address Book	HERE
Art _c ^B Trip Planner	OPTIO

Previous destination

The NAV ONE system saves the most recent origin and the last nine destinations in memory for quick retrieval.

Set Zoom Level	
	PAGE
	HERE
	ZOOM
GPS III NW 05:09 263.3mi 🕇	ВАСК

Useful Tools

Four functions are built into the NAV ONE system to provide added utility. ZOOM. PAN and HERE can be used whether or not a trip is in progress. VOICE is active only while a trip is in progress.



PDA positioned for infrared transfer



Address book

The address book allows users to store up to 100 destinations of their choice for ready reference and retrieval. They can also be added from a PDA using the infrared port, then edited and deleted with the system resources.



Trip data

The NAV ONE system keeps track of information about each trip and the 🗗 Trip Data screen can be viewed at any time to retrieve data for the current or most recent trip. Users can select two of the data items for display.

Where do you want to go?	
Address/Intersection	
Point of Interest	TRAIL
+ Previous Destination	Ø
Address Book	HERE
∽ ^B Trip Planner	OPTION

Trip planner

In addition to individual destinations, the NAV ONE system allows up to five trips to be stored with up to ten destinations to be visited in sequence on each trip.



Trail mode

This feature can be used to record vehicle movements. Instead of quiding the vehicle on a route calculated in advance, it captures the route actually taken. Once a trail is recorded and saved, it can be used to retrace the route or to repeat it in the future.

NAV ONE system specifications

Physical Unit dimensions specifications 201 mm x 120 m

Unit dimensions 201 mm x 120 mm x 65 mm (4.73" H x 7.91" W x 2.28" D)

Unit weight 710 g (1 lb., 8.96 oz.)

Display size 132 mm (5.2") Diagonal

Display resolution 320 x 240 Pixel STN Color Display

Keypad Back-lit

Power

12-volt DC Vehicle Power Adapter Included

Usage 1.2A max Fuse 3A

Antenna

Built-in Patch (Optional External Antenna Available)

Temperature range

Operation -15° C to $+ 60^{\circ}$ C (5°F to 140°F) Storage -30° C to $+80^{\circ}$ C (-22° F to 176°F)

Map storage

Automotive-Grade Hard Disk Drive

Performance C Receiver

12 Parallel Channels for tracking up to 12 satellites

Acquisition times Approximately (hot) 8 sec. (warm) 38 sec. (cold) 45 sec. using i.A.S.A.P Technology

Update rate 1/second, continuous

GPS accuracy Position 10 meters, 2D RMS Velocity 0.1 m/sec.

Dynamics 4g

Interface USB 2.0

Maintenance and Troubleshooting

Maintenance Very little maintenance is required to keep this NAV ONE system in good operating condition.

- Keep the unit components clean by wiping with a soft cloth slightly moistened with lens cleaner or isopropyl alcohol. Do not use solvents or harsh or abrasive cleaners, which could damage the case or scratch the LCD.
- Protect the unit from moisture and from being dropped or struck by hard objects to prevent damage. Do not apply pressure to the LCD screen.
- Consult the Cobra web site (www.cobra.com) for the latest software and database versions and compare them to those stored in your unit to determine if updating is needed. Software and information updates are also available in DVD format and can be purchased as accessories. NAV ONE needs to be connected to a computer running a Windows 98 Second Edition or higher operating system with a DVD drive using a USB-2.0 cable to install the updates.

Troubleshooting \cdots \bigcirc	Problem	Possible cause(s)	Solution(s)
		Power switch is turned off.	Turn the unit on with the button on the left side of the unit.
	Display does not power up.	Brightness and contrast are turned completely down.	Use the controls on the right side of the unit to adjust the display until it is comfortable to view.
		Fuse in unit cigarette lighter adapter is blown.	Unscrew the adapter tip and inspect the fuse. Replace fuse if blown.
		No voltage is present at cigarette lighter or other power point.	Troubleshoot vehicle wiring. NOTE for some power points, ignition key must be at RUN for the point to be energized.
	GPS indicator will not turn green.	GPS antenna cannot "see" the sky.	Move vehicle to open area and make sure the GPS antenna has a clear view of the sky.
	Push buttons on front of unit do not work.	Power switch is turned off.	Turn the unit on with the button on the left side of the unit.
d	Vehicle icon or map does not move after	GPS is not working properly.	Is GPS signal indicator green? If yes, go to next step. If no, go to "GPS indicator will not turn green" step.
	driving some distance.	Geographic area is not fully mapped.	Drive to a main road. If the map shows the road, the system is working properly, but the area is not fully mapped.

Product service

Product service ·· • For any questions about operating or installing this new Cobra product, or if parts are missing...Please call Cobra first! DO NOT RETURN THIS PRODUCT TO THE STORE! See Customer Assistance on page 24.

Canada or U.S.A. Canada or the U.S.A.

If this product should require factory service, please call Cobra first before sending the product. This will ensure the fastest turnaround time on any repair. If Cobra asks that the product be sent to its factory, it will be necessary to furnish the following to have the product serviced and returned:

- For warranty repair include some form of proof-of-purchase, such as a copy of a sales receipt making sure the date of purchase and product model number are clearly readable. If available, also include a reproduction of the dealer purchase form making sure the dealer address and phone number are clearly readable. If the originals are sent, they cannot be returned.
- 2. Send the entire product.
- Enclose a description of what is happening with the product. Include a clearly printed name and address of where the product is to be returned, with phone number (required for shipment).

- **4.** Pack the product securely to prevent damage in transit. If possible, use the original packing material.
- Ship prepaid and insured by way of a traceable carrier such as United Parcel Service (UPS) or Priority Mail to avoid loss in transit to:

Cobra Factory Service Cobra Electronics Corporation 6500 West Cortland Street Chicago, Illinois 60707 U.S.A.

6. If the product is in warranty, upon receipt of the product, it will either be repaired or exchanged depending on the model. Please allow approximately 3 weeks before contacting Cobra for status. If the product is out of warranty, a letter will automatically be sent with information as to the repair charge or replacement charge.

For any questions, please call 773-889-3087 for assistance.

Customer assistance and Trademark acknowledgement

Customer ····· assistance

Cobra Electronics Corporation reserves the right to change or improve information in this manual without notice. Please visit www.cobra.com for updates or questions.

Should you encounter any problems with this product, or not understand its many features, please refer to this Quick Reference Manual. If you require further assistance after reading this manual. Cobra Electronics offers the following customer assistance services:

For assistance in Canada or the U.S.A.

- Automated help desk (English only) 24 hours a day, 7 days a week at 773-889-3087 (phone).
- Customer assistance operators (English and Spanish) 8:00 a.m. to 6:00 p.m. C.S.T. Mon. through Fri. (except holidays) at 773-889-3087 (phone).
- Questions (English and Spanish) Faxes can be received at 773-622-2269 (fax).
- Technical assistance (English only) www.cobra.com (on-line: Frequently Asked Questions).
- Technical assistance (English and Spanish) productinfo@cobra.com (e-mail).

For assistance outside Canada or the U.S.A., or for assistance in French

Contact vour local dealer

acknowledgement

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Cobra encourages customers to report any errors found in our electronic maps by contacting technical assistance (available in English and Spanish) at productinfo@cobra.com (e-mail), by visiting our web site: www.cobra.com, or by calling customer assistance (available in English and Spanish) at 773-889-3087 between 8:00 a.m. and 6:00 p.m. C.S.T. Monday through Friday (except holidays).

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Warranty

Warranty For products purchased in Canada



CAUTION

Cobra makes no warranty as to the accuracy or completeness of the map data in the NAV ONE and disclaims any and all express, implied or statutory warranties, including any implied warranty of merchantability or fitness for a particular purpose. It is the user's responsibility to use this product prudently. This product is intended to be used only as a travel aid and must not be used for any purpose requiring precise measurement of direction, distance, location or topography.

Your new Cobra NAV ONE is covered by a one (1) year warranty. If any manufacturing defect becomes apparent in this product within one (1) year from the original date of purchase, it will be repaired or replaced.

Please return the NAV ONE to Cobra with original or copy of dated proof of purchase. This warranty does not cover damages due to careless handling, negligence, accident, abuse or failure to follow operating instructions. Alteration of this product or defacing of the serial number cancels all obligations of this warranty. This warranty gives you specified legal rights. Additional warranty rights may be provided by law in some areas.

For products purchased in the U.S.A.

Cobra Electronics Corporation warrants that its Cobra NAV ONE, and the component parts thereof, will be free of defects in workmanship and materials for a period of one (1) year from the date of first consumer purchase. This warranty may be enforced by the first consumer purchaser, provided that the product is utilized within the U.S.A.

Cobra will, without charge, repair or replace, at its option, defective NAV ONE products or component parts upon delivery to the Cobra Factory Service Department, accompanied by proof of the date of first consumer purchase, such as a duplicated copy of a sales receipt. The consumer must pay any initial shipping charges required to ship the product for warranty service, but the return charges will be at Cobra's expense, if the product is repaired or replaced under warranty.

This warranty gives the consumer specific rights, and he or she may also have other rights which vary from state to state.

Exclusions: This limited warranty does not apply:

1. To any product damaged by accident;

2. In the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs;

3. If the serial number has been altered, defaced or removed;

4. If the owner of the product resides outside the U.S.A.

All implied warranties, including warranties of merchantability and fitness for a particular purpose are limited in duration to the length of this warranty.

Cobra shall not be liable for any incidental, consequential or other damages; including, without limitation, damages resulting from loss of use or cost of installation.

Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to some consumers.

Accessories

Optionalaccessories

The Cobra line of quality products includes:

CB Radios

microTALK[®] Radios Radar/Laser Detectors Safety Alert[®] Traffic Warning Systems Handheld GPS Receivers Mobile GPS Navigation Systems HighGear[®] Accessories CobraMarine[™] VHF Radios Power Inverters Accessories



120V AC power supply allows trip plan programming and data access in home or office.

To order by phone

In the U.S.A.

Call 773-889-3087 (please follow the prompts) 8:00 a.m. - 6:00 p.m. C.S.T. Mon. through Fri. (except holidays)

In Canada

Call 514-683-1771 (please follow the prompts) 9:00 a.m. - 5:00 p.m. E.S.T. Mon. through Fri. (except holidays)

To order by mail or fax

Call 773-889-3087 for pricing. Please fill out order form and mail/fax directly to Cobra. Fax 773-622-2269.

Deluxe carrying case organizes

These accessories are available from a local Cobra dealer or directly from Cobra.

Deluxe carrying case organizes the NAV ONE and its accessories and keeps them out of sight when not in use.

Make check or money order payable to

In the U.S.A.

Cobra Electronics Corporation 6500 West Cortland Street Chicago, Illinois 60707 U.S.A. Attn: Accessories Department

In Canada

AVS Technologies, Inc. 2100 Trans Canada Highway South Montreal, Quebec H9P 2N4

To order online

Please visit our web site at: www.cobra.com

External antenna allows GPS signal

External antenna allows GPS signal reception in heavily shielded vehicles and those with heated or metallic coated windshields.

7 NOTE

Additional mounting bracket options, that may be more suited to your vehicle, are available at www.cobra.com. 27

Order form

Order form Please print clearly	Item #	Description	Cost Each U.S.A.	Cost Each Canada	Qty.	Amount
	MNA-UPD3000	NAV ONE 3000 map update*				
Name	MNA-120 AC	120V AC adapter				
Address (no P.O. box)	MNA-2300 CS	Carrying case				
	MNA-2300 EXT	External antenna				
City	MNA-2300 USB	USB cable				
State/Province Zip	- MNA-2300 UPGKIT	Upgrade kit (with AC adapter and USB cable)				
Country	California7.25% \$10.00 or less \$3.00		U.S. Su (Tax if appli			
Telephone	Ohio 6% Wisconsin 5%	\$90.01-\$130.00 \$13.50 \$130.01-\$200.00 \$16.50 \$200.01 or over 10% of purchase	Shipping/Handling Canada Subtotal		, i	
Credit card number Exp. date		For AK, HI and PR add additional \$26.95 for FedEx Next Day or \$10.95 for FedEx 2nd Day. Excludes weekends and		G.S.	.T. 7%	
Please check one:		holiday shipments. Please allow 2-3 weeks		(Quebec residents only) Q.S.T. 7.5%		
		for delivery of Ground shipments within the Continental U.S. and delivery of Ground shipments in Canada. Prices subject		Shipping/Ha	ndling	\$5.50
		to change without notice.	Total			

Customer signature

*The Map Update is available on disks by telephone to Cobra's consumer response group at 773-889-3087. Purchase of MNA-2300 AC (120V AC Adapter) and MNA-2300 USB (USB Cable) required for updating map.

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