

 **blackbird**™



## Owner's Manual Version 1.0

# PRECAUTIONS

## ■ Important Information

### Please Read Carefully Before Using This Product.

This product is intended to safely provide turn by turn instructions to get you to a desired destination. Please make certain that all persons using this navigation system carefully read these precautions and the following instructions fully.

- 1) This product is not a substitute for your personal judgment. Any route suggestions made by this navigation system may never supersede any local traffic regulations or your personal judgment and/or knowledge of safe driving practices. Do not follow route suggestions if the navigation system instructs you to perform an unsafe or illegal maneuver, places you in an unsafe situation, or routes you into an area which you consider unsafe.
- 2) Glance at the screen only when necessary and safe to do so. If prolonged viewing of the screen is necessary, pull over in a safe and legal manner and location.
- 3) Do not input destinations, change settings, or access any functions requiring a prolonged view of the monitor and/or remote control while you are driving. Pull over in a safe and legal manner and location before attempting to access the system.
- 4) Do not use the navigation system to route you to emergency services. Not all locations of emergency services such as police and fire stations, hospitals and clinics are contained in the database. Please use your own judgment and ask for directions in these situations.
- 5) The map database used in the navigation system is the most recent map data available at the time of production. Because of changes in streets and neighborhoods, there may be situations where the navigation system is not able to route you to your desired destination. In these cases, use your own judgment.
- 6) The map database is designed to provide you with route suggestions and does not take into account the relative safety of a suggested route or of factors which may affect the time required to reach your destination. The system does not reflect road closures or construction, road characteristics (i.e. type of road surface, slope or grade, weight or height restrictions, etc.), traffic congestion, weather conditions, or any other factors which may affect the safety or timing of your driving experience. Use your own personal judgment if the navigation system is unable to provide you with an alternate route.
- 7) There may be situations where the navigation system displays the vehicle's location erroneously. Use your own driving judgment in this situation, taking into account current driving conditions. Please be aware that in this situation the navigation system should correct the vehicle's position automatically. However, there may be times where you may have to correct the position yourself. If this is the case, pull over in a safe and legal manner and location before attempting operation.
- 8) Make certain that the volume level of the navigation system is set to a level which still allows you to hear outside traffic and emergency vehicles.

If there is anything in the manual about the operation of the navigation system which you are uncertain about, please contact your local Alpine authorized navigation dealer or Alpine at 1-888-NAV-HELP (1-888-628-4357) before using the navigation system.

# WARNINGS

## Points to Observe for Safe Usage

Read this manual carefully before using this system. It contains instructions on how to use this product in a safe and effective manner. Alpine cannot be responsible for problems resulting from failure to observe the instructions in this manual.

This manual uses various pictorial displays to show you how to use this product safely and to alert you to potential dangers resulting from improper connections and operation. Following are explanations of these pictorial displays. It is important to fully understand the meanings of these pictorial displays in order to use this manual and the system properly.

### **WARNING**

**This symbol means important instructions. Failure to heed them can result in serious injury or death.**

#### **DO NOT OPERATE ANY FUNCTION THAT TAKES YOUR ATTENTION AWAY FROM SAFELY DRIVING YOUR VEHICLE.**

Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.

#### **KEEP THE VOLUME AT A LEVEL WHERE YOU CAN STILL HEAR OUTSIDE NOISE WHILE DRIVING.**

Failure to do so may result in an accident.

#### **MINIMIZE DISPLAY VIEWING WHILE DRIVING.**

Viewing the display may distract the driver from looking ahead of the vehicle and cause an accident.

#### **DO NOT DISASSEMBLE OR ALTER.**

Doing so may result in an accident, fire or electric shock.

#### **USE THIS PRODUCT AS SPECIFIED.**

Use for other than its designed application may result in fire, electric shock or other injury.

#### **KEEP SMALL OBJECTS SUCH AS BATTERIES OUT OF THE REACH OF CHILDREN.**

Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

#### **DO NOT PLACE HANDS, FINGERS OR FOREIGN OBJECTS IN INSERTION SLOTS OR GAPS.**

Doing so may result in personal injury or damage to the product.

#### **USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES.**

Failure to do so may result in fire or electric shock.

#### **DO NOT BLOCK VENTS OR RADIATOR PANELS.**

Doing so may cause heat to build up inside and may result in fire.

### **CAUTION**

**This symbol means important instructions. Failure to heed them can result in injury or material property damage.**

#### **HALT USE IMMEDIATELY IF A PROBLEM APPEARS.**

Failure to do so may cause personal injury or damage to the product. Return it to your authorized ALPINE dealer or the nearest ALPINE Service Center for repairing.

#### **DO NOT MIX NEW BATTERIES WITH OLD BATTERIES. INSERT WITH THE CORRECT BATTERY POLARITY.**

When inserting the batteries, be sure to observe proper polarity (+ and -) as instructed. Rupture or chemical leakage from the battery may cause fire or personal injury.

### **PRECAUTIONS**

#### **Temperature**

Be sure the temperature inside the vehicle is between +60°C (+140°F) and -0°C (+32°F) before turning your unit on.

#### **Fuse Replacement**

When replacing the fuse(s), the replacement must be of the same amperage as shown on the fuse holder. If the fuse(s) blows more than once, carefully check all electrical connections for shorted circuitry. Also have your vehicle's voltage regulator checked.

#### **Maintenance**

If you have problems, do not attempt to repair the unit yourself. Return it to your ALPINE dealer or the nearest ALPINE Service Station for servicing.

#### **Installation Location**

Make sure the PMD-B100 will not be exposed to:

- Direct sun and heat
- Excessive dust
- High humidity
- Excessive vibrations

#### **Characteristics of LCD Panel**

- After turning the system off, a slight ghost of the image will remain temporarily. This is an effect peculiar to LCD technology and is normal.
- Under cold temperature conditions, the screen may lose contrast temporarily. After a short warm-up period, it will return to normal.
- The LCD panel is manufactured using an extremely high precision manufacturing technology. Its effective pixel ratio is over 99.99%. This means that 0.01% of the pixels could be either always ON or OFF.

#### **Using Headphones**

If ACC or the monitor's power source is turned off, a loud noise is produced through the headphone jack. Be sure to remove the headphones from your ears before you turn the monitor off.

# USER AGREEMENT

In using this Blackbird Portable Navigation System (hereinafter referred to as “System”), which includes Alpine Electronics, Inc. (“Alpine”) Software and NAVTEQ North America, LLC. (“NAVTEQ”) Database, you are bound by the terms and conditions set forth below. By breaking the seal on the System and using your copy of the System, you have demonstrated your agreement to the terms and conditions of this Agreement. You should, therefore, make sure that you read and understand the following provisions.

The System may not be copied, duplicated or otherwise modified, in whole or in part, without the express written permission of Alpine and NAVTEQ.

The System may not be transferred or sublicensed to any third party for profit, rent or loan or licensed for reuse in any manner.

The System may not be decompiled, reverse engineered or otherwise disassembled, in whole or in part.

The System may not be used in a network or by any other manner of simultaneous use in multiple systems.

The System is intended solely for personal use (or internal use where the end-user is a business) by the consumer.

The System is not to be used for commercial purposes.

Neither Alpine nor NAVTEQ guarantees to the customer that the System meet the specific objectives of the user.

Neither Alpine nor NAVTEQ shall be responsible for any damages caused by the use of the System to the actual user and to any third party.

The warranty on the System shall not extend to an exchange or refund due to misspelling, omission of letters, or any other cosmetic discrepancy in layout found in the System.

The right to use the System shall expire either when the user destroys this software, or when any of the terms for use is violated and Alpine and/or NAVTEQ exercise the option to revoke the license to use this software.

The terms and conditions hereof apply to all subsequent users and owners as well as to the original purchaser.

The NAVTEQ Database may include or reflect data of licensors, including Her Majesty The Queen in right of CANADA. Such data is licensed on an “AS IS” basis. The licensors, including Her Majesty The Queen, make no guarantees, representations or warranties respecting such data, either express or implied, arising by law or otherwise, accuracy or fitness for a particular purpose.

The licensors, including Her Majesty The Queen, shall not be liable in respect of any claim, demand or action, irrespective of the nature of the cause of the claim, demand or action alleging any loss, injury or damages, direct or indirect, which may result from the use or possession of the data or the NAVTEQ database. The licensors, including Her Majesty The Queen, shall not be liable in any way for loss of revenues or contracts, or any other consequential loss of any kind resulting from any defect in the data or the NAVTEQ database.

End User shall indemnify and save harmless the licensors, including Her Majesty The Queen and the minister, and their officers, employees and agents from and against any claim, demand or action, irrespective of the nature of the cause of the claim, demand or action, alleging loss, costs, expenses, damages or injuries (including injuries resulting in death) arising out of the use or possession of the data or the NAVTEQ database.

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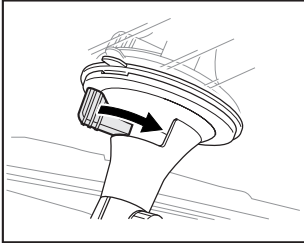
# INSTALLATION

## ■ How to Mount Blackbird

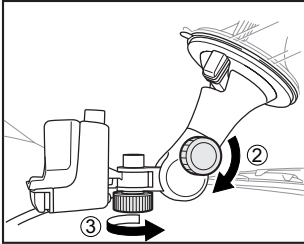
### ⚠ WARNING

Improper installation may make the navigation system fall out from the cradle while driving. Please make sure all locks and knobs are turned tight.

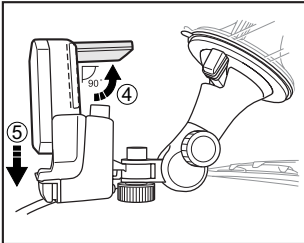
Do not install the navigation while driving.



- 1 Find a spot suitable for the navigation system. Ensure that both the suction cup and windshield area are clean and free of dirt and grease before attaching it. Stick the suction cup mount against the windshield. Turn the knob to activate the vacuum to lock the position.



- 2 Turn the knob counterclockwise to adjust up/down position. Then turn clockwise to set the position.
- 3 Turn the knob clockwise to adjust right/left position. Then turn counter clockwise to set the position. **DEVICE SHOULD NOT BE INSTALLED SO THAT IT OBSTRUCTS THE DRIVER'S VIEW.**

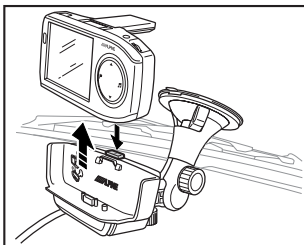


- 4 Open the antenna before inserting the navigation system into the cradle. For best reception sensitivity, position the antenna 90 degrees to the main unit.
- 5 Slide the navigation system into the cradle until you hear a click sound.
- 6 Plug the cigarette lighter charger into the cigarette lighter socket.

### ⚠ CAUTION

Remove the navigation system when you are away from the vehicle to prevent theft.

## ■ To Remove the Navigation System from the Cradle



- 1 Press and hold the eject button on the cradle.
- 2 Grasp the navigation system behind the antenna and remove by sliding up and out of the cradle.

Note to California consumers: California Vehicle Code 26708 prohibits the placement of any object on windows. Refer to your authorized Alpine dealer for other installation options.

## ■ How to Listen to Guidance and Music from Your Car Stereo

### Turning on the Transmitter and Playing Music from Your Radio

You can setup Blackbird to broadcast music and navigation voice guidance directly to your FM radio.

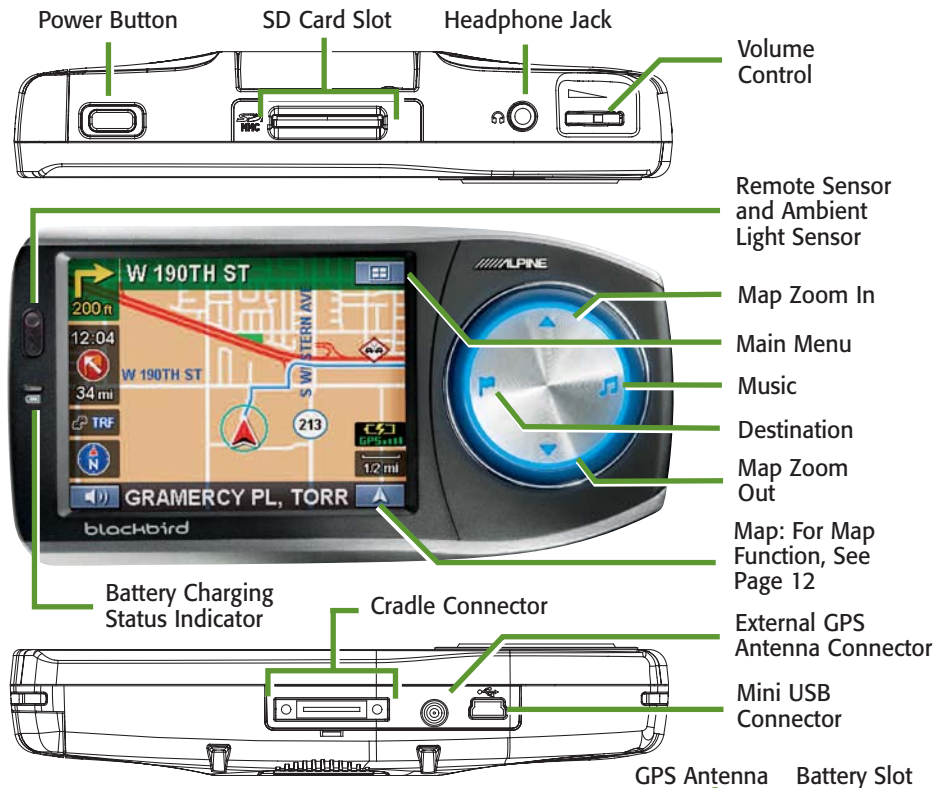
- 1 Plug the cradle into your vehicle's cigarette lighter/power outlet.
- 2 Insert Blackbird into the cradle (See page 6 for details).
- 3 Turn on your radio. Find an FM frequency from the following that is broadcasting nothing but static: 88.3 MHz, 88.5 MHz, 88.7 MHz, 88.9 MHz, 106.7MHz, 106.9 MHz, 107.1 MHz, 107.3 MHz, 107.5 MHz, 107.7 MHz, (do this with Blackbird off at first).
- 4 Turn on Blackbird.
- 5 On Blackbird, go to **Main Menu → Setup → System**. The default broadcast frequency is 88.3 MHz.
- 6 Turn the transmitter button ON in System Setup screen.
- 7 Set Blackbird to that frequency and play music files on Blackbird. (Touch **Main Menu → Entertainment**, or simply press Music button) Blackbird provides 10 frequencies to choose from. You may have to try a few frequencies before you find one that works best in your vehicle.

### Turning Off the Transmitter

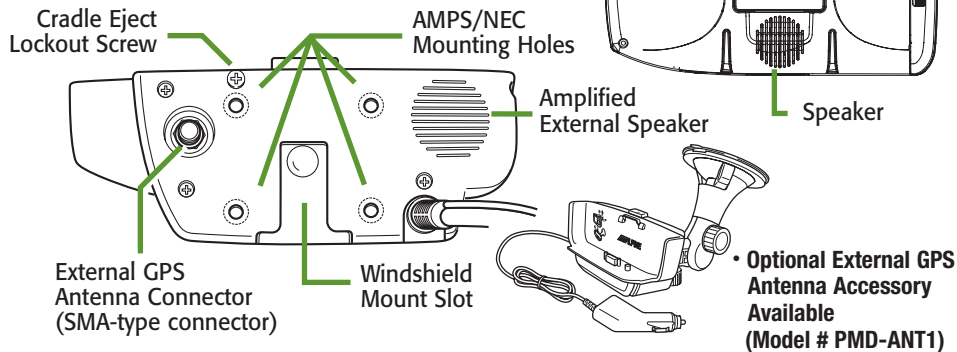
- 1 Turn off your radio first to avoid the static noise.
- 2 On Blackbird, go to **Main Menu → Setup → System**.
- 3 Turn the transmitter button OFF in System Setup screen.

# SYSTEM FEATURES

## Blackbird Portable Navigation System



### Cradle with Cigarette Lighter Charger



Congratulations and thank you for purchasing the Alpine Blackbird Portable Navigation System. We hope you enjoy using this exciting product and trust that it will make your driving experience more comfortable, stress-free, and entertaining. The Blackbird Portable Navigation System provides an easy-to-use user interface, clear, easy-to-understand spoken driving instructions, and award winning design all in a portable product. Blackbird is built upon Alpine's history of navigation success in North America. Please read this manual carefully. If you have any further questions about Blackbird's operation, feel free to call Alpine at 1-888-NAV-HELP (628-4357) for technical assistance.

## Main Menu

	Set and save Destinations. → Page 14		Play music. → Page 30
	Get back home from anywhere. → Page 22		Modify or choose alternate routes to a destination. → Page 23
	View Navigation Demonstration and system information. → Page 28		Edit Home and Address Book. → Page 24
	Traffic feature allows you to receive Real Time Traffic (coming soon).		Customize the navigation system. → Page 26

## Battery Charging Status Indicator

This illuminates when the system is being charged or requires charging.

GREEN	Battery is fully charged.
AMBER	Battery is charging.
RED	Battery needs charging.

# BASIC OPERATION

## To Turn On Power

Power Button



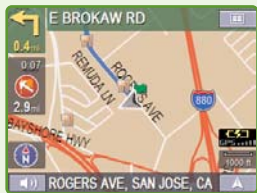
- 1 Press and hold Power Button for 2 seconds.



- 2 Opening screen appears.



- 3 Read carefully. Touch **I Accept** to display map.



- 4 Current location is indicated on the map.

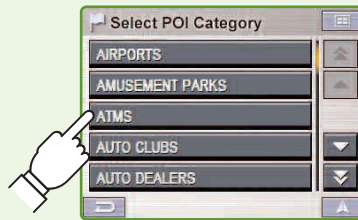
## To Turn Off

Press and hold Power Button for 2 seconds.

## Set a Destination and Go!



- 1 Touch **Main Menu**. Select **Destination** from Main Menu, or press Destination button.



- 4 Scroll the list. Select desired place list. (In this example, **ATMS** is selected.)



- 7 Select **Sort By Distance** or **Within a City**.

For Map Function, see page 12.

The following example briefly describes how to use the navigation feature.



- 2 Select desired method. (In this example, **Places** is selected.)



- 5 Select the search method. (In this example, **Sort By Name** is selected.)

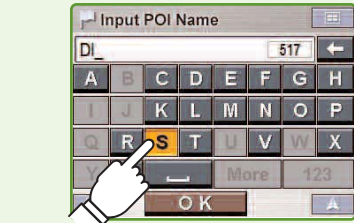


- 8 Select **OK to Proceed** to set the destination.

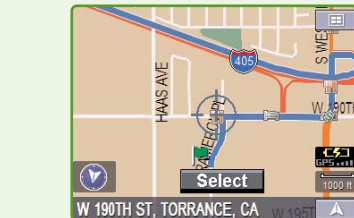
To Go Home, see page 22.



- 3 Select a search method. (In this example, **By Place Type** is selected.)



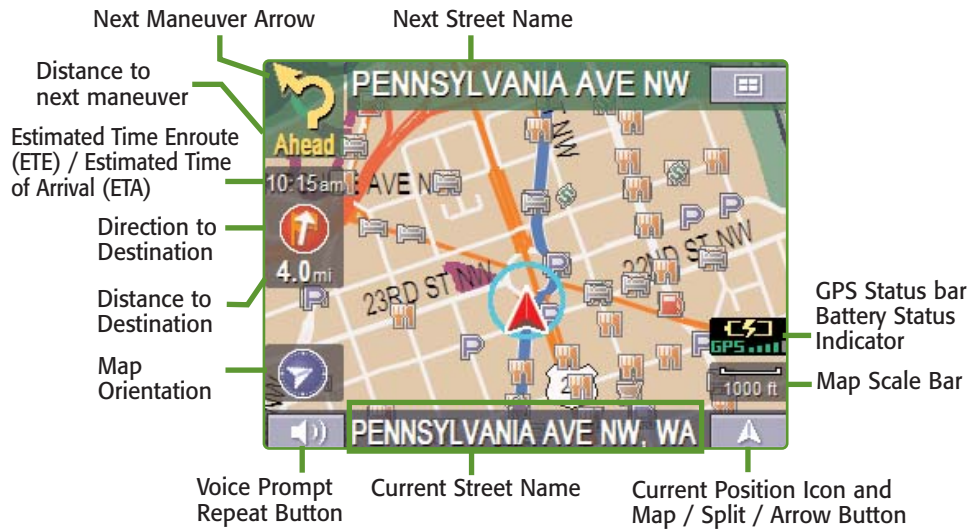
- 6 Type name of a place. If more than one place with the same name exist, sort method screen appears.



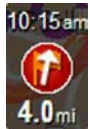
- 9 Map is displayed. Follow the navigation.

To Find other routes, see page 23.

# MAP FUNCTION



## Set Estimate Time Display



Click icon to Switch between Estimate Time and Arrival Time.

Note: The time estimates are based on the average speed. The estimate time will vary depending on vehicle speed. The arrow always points toward the destination.

## Set the Map Orientation



North Up

Click icon to Switch between North up and Heading Up views.



Heading Up

In heading-up view, the current direction is always pointing to the top of the display. Easy to see the direction of the next turn on the map.

## Repeating the Announcement



Click icon to repeat the guide announcement.

## Zoom In/Out Map



Click icon to display scroll bar.



Touch ▲▼ or blue bar to zoom the map in or out. The scroll bar disappears automatically after 2 seconds. Minimum scale is 1/16th mile and Maximum is 350 miles.

## GPS Status



Click icon to view GPS receiving condition information from satellite.

## Battery Status

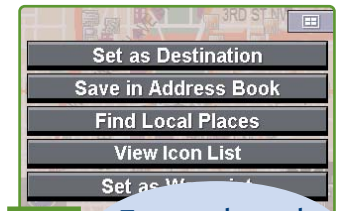


Shows status of the battery. (Lightning bolt) indicates that the battery is currently being charged. (3 bars) indicates that the battery has more than 60% charge. (2 bars) indicates that the battery has more than 40% charge. (1 bar) indicates that the battery has about 10% charge remaining.



## Setting Destination Directly from Map Display

- 1 Touch anywhere on map screen. The current location arrow changes to Crosshair Cursor on the screen.
- 2 Move the cursor to the new desired street. Note: Use Map Scale Bar to zoom out the map if the destination is far from the current location.
- 3 Touch **Select**.
- 4 Select **Set as Destination**.
- 5 Touch **OK to Proceed** on the confirmation screen.

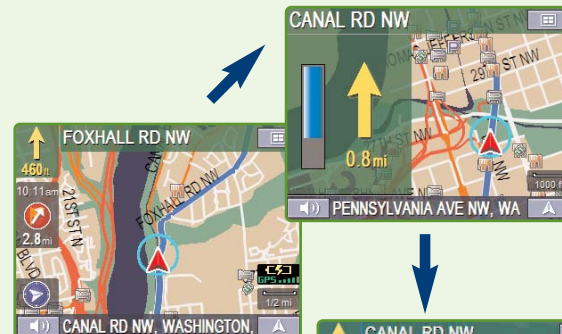


To cancel, touch Previous Screen icon.



## Switching Map Display

Click icon to switch to Map Mode, Split Arrow/Map Mode and Full Arrow Mode.



## Split Arrow/Map Mode

Displays a large arrow and larger next-street-name font along side a map screen while providing turn-by-turn guidance prompts.

## Map Mode

Shows a full-screen map of the area while providing turn-by-turn guidance prompts.

## Full Arrow Mode

Displays three-successive arrow maneuvers all the way to your destination while providing turn-by-turn guidance prompts.

# DESTINATION

## ■ Setting a Destination by Address

1 Go to **Main Menu** .

→ **Destination**  → **Address** 

### Finding a Destination from Street Name

2 Select **Input Street Name**.

3 Type the street name.  
Touch **OK**.

The list of applicable street names appears.

Note: For the details of selecting letters, see page 15.

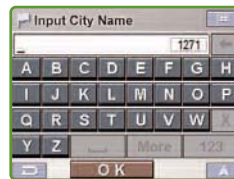
4 Select the desired street name from the list.

5 Type the street number and touch **OK**.

6 Select the desired city.

If there are multiple matches, the system will list cities containing the street name and address number that you keyed in.

7 Confirmation screen appears.  
See below for details.



## Change State


If you want to choose a different state from the one shown on the screen, touch **Change** to switch to other state.




## Selecting Letters

Selected characters are displayed.



 Deleting one letter

 Adding one space

 Going to number screen

## Finding a Destination by City Name

2 Select **Input City Name**.

3 Type the city name and touch **OK**.

The list of applicable city names appears. Select the desired city.

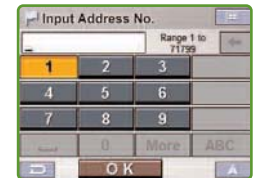
4 Type the first characters of the street name.  
Touch **OK**.

The list of applicable street names appears. Select the desired street.

5 Enter the street number.

If you don't know the street number, select **OK**. "Input 2nd Street Name" appears. Type 2nd street name.

6 Confirmation screen appears.  
See below for details.



## ■ Confirm Destination Screen

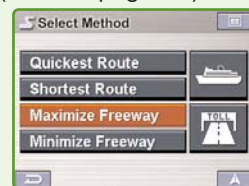
### OK to Proceed

Set the destination and display a map.



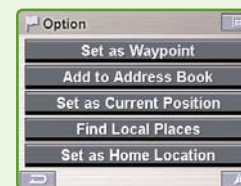
### Change Method

Find an alternative way.  
(Refer to page 22.)




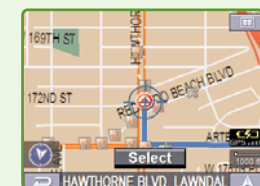
### Option

Find Local Places → P20  
Set as Waypoint → P20  
Add to Address Book → P21



### Map

Check the destination on the map.  
Touch  to go back to the confirmation screen.








# DESTINATION

## ■ Setting a Destination by Places

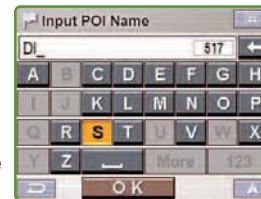
You can select from approximately 2 Million Point-of-Interest locations stored inside your Blackbird Portable Navigation System. These destinations are sorted by Place Name or by Place Type and are listed in order of distance to your current location.

- 1 Go to **Main Menu** .  
→ **Destination**   
→ **Places** 



### Finding a Destination by Place Name

- 2 Select **By Place Name**.
- 3 Type the desired place name.  
Touch **OK**.  
A place list with place names appears.



**Note:** Touch a place name to view address and telephone number (information may or may not be available).

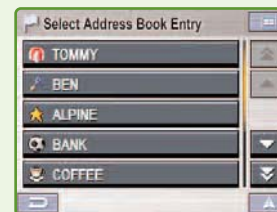
- 4 Select the place with correct address.  
For emergency locations such as Police Stations, Hospitals, etc., please verify availability before proceeding to such locations.
- 5 Confirmation screen appears.  
Touch **OK to Proceed** to set a destination and display map.



## ■ Setting a Destination from the Address Book

- 1 Go to **Main Menu** .  
→ **Destination**   
→ **Address Book**

- 2 Select the desired destination.
- 3 Confirmation screen appears.  
Touch **OK to Proceed** to set your destination and start receiving turn-by-turn navigation instructions.



To save an address in the address book, see page 21.

# Destination

## Finding a Destination by Place Type

- 2 Select **By Place Type**.
- 3 Select a desired POI Category.  
Place type has 50 categories including ATMS, Banks, Gas Stations, Grocery Stores, Hotels, Parking Lots, Restaurants and more.
- 4 Select Search Method.



### Sort by Distance

- 5 The list of place names appears in order of distance from the current vehicle position.
- 6 Select the place. → **OK to Proceed**

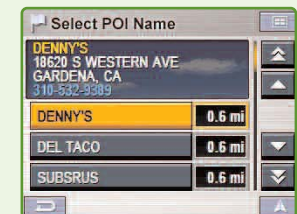


### Sort by Name

- 5 Follow 3 to 5 in “Finding a Destination by Place Name” on Page 16.




### Within a City

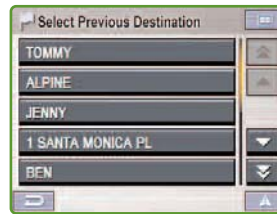
- 5 Type the city name.
- 6 The list of Places appears in order of the distance from the selected city. Select the desired place.
- 7 Touch **OK to Proceed** on the confirmation screen.



# DESTINATION

## ■ Setting a Destination by Recently Entered Destination




- 1 Go to **Main Menu** .  
→ **Destination**   
→ **Recent** 

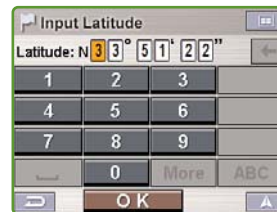


- 2 The list of recent destinations appears. Select the destination.
- 3 Confirmation screen appears.  
Touch **OK to Proceed** to set a destination and display map.

Note: To use other functions on the confirmation screen, see page 14 for details.

## ■ Setting a Destination by Coordinates

- 1 Go to **Main Menu** .  
→ **Destination**   
→ **Coordinate** 




- 2 Enter the Latitude of your destination.  
Touch **OK**.
- 3 Enter the Longitude of your destination.  
Touch **OK**.
- 4 Confirmation screen appears.  
Touch **OK to Proceed** to set a destination and display map.



# Destination

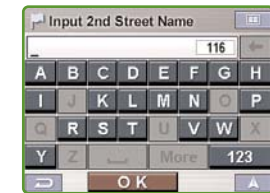
## ■ Setting a Destination by Intersection

- 1 Go to **Main Menu** .  
→ **Destination**   
→ **Intersection** 



### Finding a Destination by Street Name

- 2 Select **Input Street Name**.
- 3 Type in the street name.  
Touch **OK**.  
The list of applicable street names appears.  
Select the desired street.
- 4 Input the second street name.  
If there is only one street crossing with the first street, the name of the street automatically appears.
- 5 Confirmation screen appears.  
Touch **OK to Proceed**.



Note: To use other functions on the confirmation screen, see pages 14 to 15 for details.



### Finding a Destination by City Name

If you know the city name of the intersection you are searching, select **Input City Name**. The choice of the street is narrowed down automatically. This saves time to enter the street information.

- 2 Select **Input City Name**.
- 3 Type the city name.
- 4 Input the first street name.
- 5 Input the second street name.
- 6 Touch **OK to Proceed** on the confirmation screen.

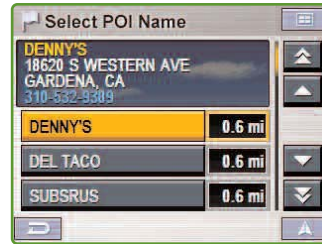
## OPTIONS

### ■ Find Local Places

The navigation system can display Points of Interest (POI) around the cursor position, when you scroll the map. Local places have 50 categories including ATMS, Banks, Gas Stations, Grocery Stores, Hotels, Parking Lots, Restaurants and more.

#### How to Find Local Places Directly from Map.

- 1 Touch anywhere on map screen.  
The current location arrow changes to Crosshair Cursor on the screen.
- 2 Touch **Select**.
- 3 Select **Find Local Places**.  
Select the desired category.
- 4 Select the desired place.
- 5 Touch **OK to Proceed** on the confirmation screen.



Note: To use other functions on the confirmation screen, see page 14 for details.

#### How to Find Local Places from Destination Menu.

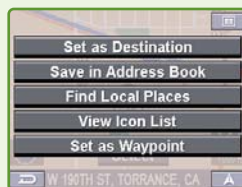
You can also find local places from Destination Menu.

- 1 Set a destination first from **Destination**.
- 2 On the confirmation screen, touch **Option**.
- 3 Follow steps 3 to 5 above.

### ■ Saving a Destination into the Address Book

Any destination can be saved into the Address Book.

- 1 Select a destination using any method.
- 2 From the confirmation screen, select **Option**.
- 3 Touch **Select** → **Save in Address Book**.



### ■ Set Waypoint

You can set up to 10 waypoints between your current location and your current destination. The final destination must be set before entering waypoints.

#### How to Set Waypoint Directly from Map

- 1 Touch anywhere on map screen.  
The current location arrow changes to Crosshair Cursor on the screen.
- 2 Move the cursor to the desired waypoint.
- 3 Touch **Select**.
- 4 Select **Set as waypoint**.
- 5 When the route search is complete, the current location is displayed. The map navigates you to the first waypoint.



#### How to Set Waypoint from Destination Menu

You can also find local places from Destination Menu.

- 1 Enter a destination by using the method on pages 14 through 19 from Destination Menu.
- 2 On the confirmation screen, select **Option**.
- 3 Select **Set as Waypoint**.

#### How to Set Waypoint from Address Book

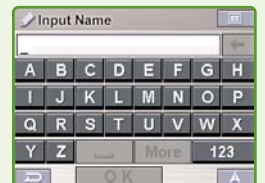
- 1 Enter a Destination by using methods on page 14 to 19.
- 2 On the confirmation screen, touch **Option**. → **Set as Waypoint**
- 3 Touch **Re-Calculate** to recalculate a route which includes your waypoint.

- 4 “Input Name” screen appears.  
Type the desired name and touch **OK**.

Note: For the details of selecting letters, see page 15.

- 5 System returns to the Main Menu screen.

Note: To display the saved destination on the map, see page 16, “Setting a destination from the address book”.



# HOME



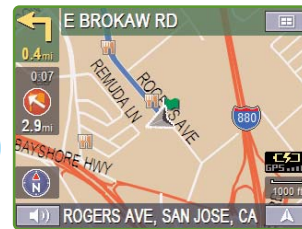
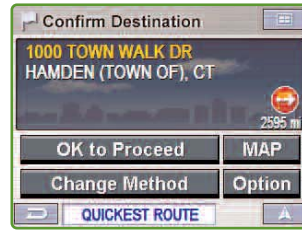
## Finding a Way Home

You can get home from anywhere once the home address is set from Edit Menu.

1 Go to **Main Menu** .  
→ **Home**

2 Touch **OK to Proceed** on the confirmation screen.

3 Follow the map and go home.

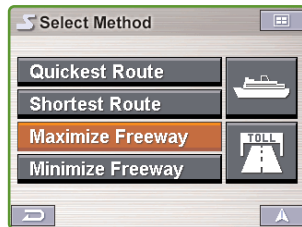


To edit the Home Address, See Page 24.

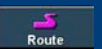
## Finding Alternate Way to Go Home

Go to **Main Menu** . → **Home** → **Change Method**

- Quickest Way
- Shortest Route
- Maximize Freeway
- Minimize Freeway
- With/Without Ferry
- With/Without Toll Road



# ROUTE



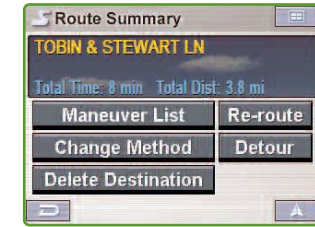
## Recalling the Maneuver List during Guidance

You can view a list of street names and upcoming turns and streets.

1 Go to **Main Menu** .  
→ **Route**

2 Touch **Maneuver List**.

3 List of upcoming streets and turns appears on the screen.



To preview a specific point, select a street name/maneuver on the list.

To go back to Route List, Go to **Main Menu** .

→ **Route**

## Finding Alternate Route

Touch **Main Menu** .  
→ **Route**   
→ **Change Method**

You can choose Quickest Route, Shortest Route, Maximize Freeway, Minimize Freeway with/without Ferry and/or Toll Road.

## Finding Detour

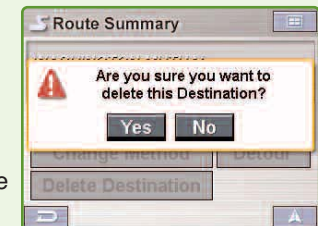
Touch **Main Menu** .  
→ **Route**   
→ **Detour**

The system automatically calculates and displays detour.

## Delete Route

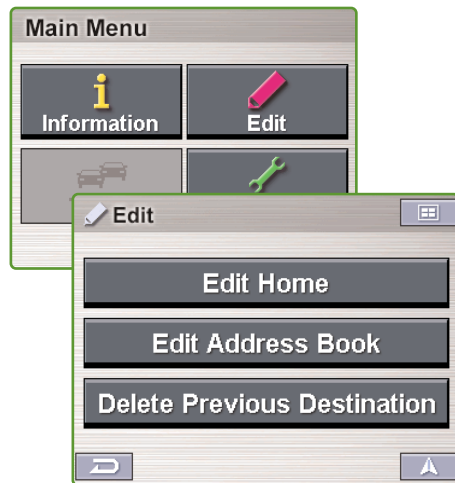
Go to **Main Menu** .  
→ **Route**   
→ **Delete Route** → **Yes**

Note: After deleting Route, you can not select Route Menu until the next destination is set. To set up the destination, see Destination Menu on Page 14.



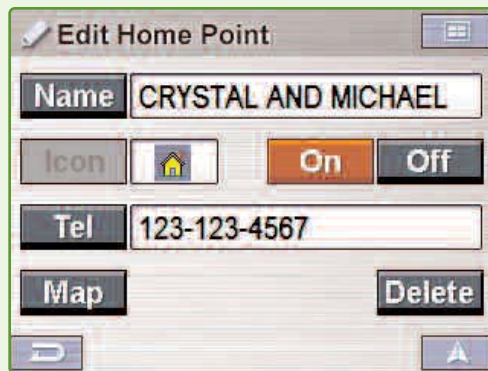
# EDIT

Locations and Home address saved in Address Book can be edited for quick recall. Also information including phone numbers and icons can be modified.



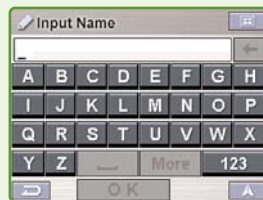
## ■ Editing Home

- 1 Go to **Main Menu** .  
→ **Edit**
- 2 Touch **Edit Home**.
- 3 “Edit Home Point” screen appears. See below for details.



**Name** Touch **Name** to change the display name of the stored location.

Note: For the details of selecting letters, see page 15.



Input Name Screen

## ■ Editing Address Book

- 1 Go to **Main Menu** .  
→ **Edit**
- 2 Touch **Edit Address Book**
- 3 The list of addresses appears. Select destination you need to modify.
- 4 “Edit Address Item” screen appears. See below for details.

Note: Select **DELETE ALL** to delete all addresses saved in the address book.

## ■ Deleting Previously Saved Destination

- 1 Go to **Main Menu** .  
→ **Edit**
- 2 Touch **Delete Previous Destination**.
- 3 Select destination you need to delete.
- 4 Touch **YES** to delete the destination on the confirmation screen.

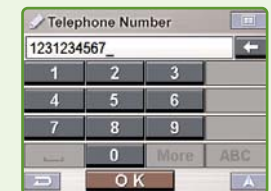
Note: Select **DELETE ALL** to delete all recently entered destinations.

**Tel** Touch **Tel** to change the telephone number of the stored location.

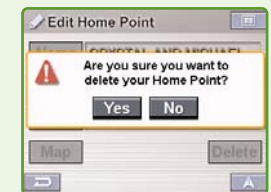
**Map** Touch **Map** to preview the change you made on the map. To go back to Edit Menu, **Main Menu** → **Edit**

**Delete** Touch **Delete** to delete the stored location.

**Icon** Touch **Icon** to change the icon of the stored location on the map.



Edit Telephone Screen





Delete Screen

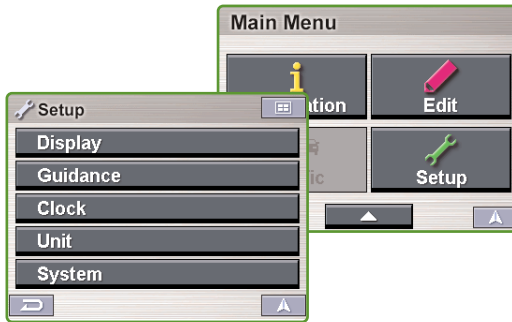


Change Icon Screen



## SETUP

You can customize Display, Guidance, Clock, Measuring Unit and FM frequency from Setup Menu.

- 1 Go to **Main Menu** .
- 2 Select **Setup** .
- 3 Setup screen appears.



### Customizing Display

- Go to **Main Menu** .
- **Setup** .
- **Display**

#### Setting the Map Color

Day - a bright tone screen  
Night - a dark tone screen  
Auto - switches automatically between Day and Night modes

#### Displaying and Editing Icons on the Map

POI Icons, the Home Icon and Icons used in the Address book can be turned on and off from the Display Setup Menu. You can also change these icons.

#### Map Orientation

North Up or Heading Up map views can be set here. You can also change between North Up and Heading Up views directly in the map screen. See page 12.

#### Background Color

You can choose between gray or blue backgrounds for all menu screens.



#### Trail

The Trail feature allows you to turn on and off trail dots that appear wherever the vehicle icon traverses. This is especially helpful for off-road enthusiasts.

#### Brightness

The brightness of the screen can be adjusted.

#### Adjusting Display

This feature is used when the system is connected to an Alpine Multimedia Station or stand-alone monitor and allows you to adjust the position of the picture on the display.

### Customizing Guidance

#### Turning Voice On and Off

This allows you to turn ON or OFF guidance voice prompts.

#### Changing Navi Mix Volume

This allows you to vary the volume of the voice prompts with respect to the music.

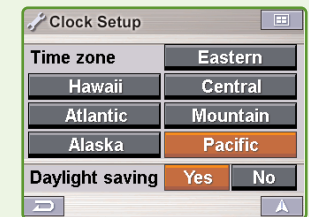
#### Setting Estimate Time Display

Estimated Time of Arrival (ETA) or Estimated Time Remaining (ETR) can be set here. You can also change between ETA and ETR directly in the map screen. See page 12.



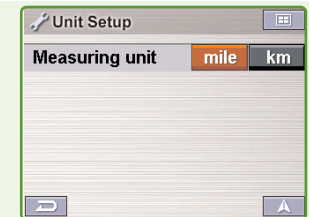
### Setting up the Clock

You can set the Time Zone and Daylight saving to fit your region.



### Switching the Measuring Unit

You can choose the unit of measure between Miles and Kilometers.



### Setting up System

#### FM Transmitter Setup

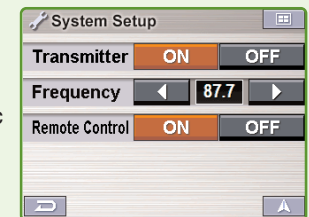
When set to ON, the FM Transmitter broadcasts music and voice prompts (if set to ON) to an available frequency on your FM car radio.

#### Frequency

Allows you to change the frequency to find the best available station for broadcasting audio to your FM radio.

#### Remote Control

This feature allows you to turn ON the ability for the system to receive remote control signals (optional RUE-4140 remote control available separately). Turning OFF the remote control extends battery life.





## INFORMATION



### ■ Simulating Navigation



You can watch a demonstration of the navigation system's voice and screen guidance.

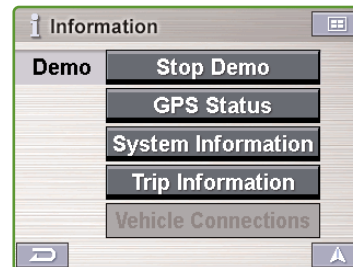
#### To Start a Demonstration

- 1 Go to **Main Menu** .
- 2 Select **Information** .
- 3 Select **Start Demo**.
- 4 Demonstration starts.





#### To Stop a Demonstration

- 1 Go to **Main Menu** .
- 2 Select **Information** .
- 3 Select **Stop Demo**.
- 4 The demonstration will end.



### ■ Viewing Trip Information

The odometer displays the route distance and time traveled.

- 1 Go to **Main Menu**  → **Information** .
- 2 Select **Trip Information**.



Here, you can see different types of information pertaining to your current trip.

**Driving Average:** Average speed since Trip Info was reset.

**Overall Average:** Average speed since start of trip.

**Maximum Speed:** Maximum speed reached on this trip.

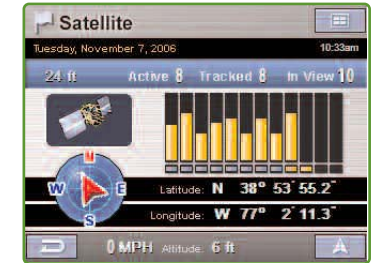
**Driving Time:** Time vehicle has been moving since the trip was reset.



**Idle Time:** Time vehicle has been stopped (not moving) since the trip was reset.

**Total Time:** Total elapsed time on the trip which is always the driving time plus idle time.

### ■ Viewing GPS Status

You can view the dynamic location information received from satellite such as signal strength, compass (direction information), latitude/longitude, approximate altitude, and speed. This feature allows you to view GPS satellite signal information. An explanation of the messages is shown below.



- 1 Go to **Main Menu**  → **Information** .
- 2 Select **GPS Status**.

The following messages are displayed while the GPS receiver is tracking satellites:

**“Locating GPS Satellites”:** Blackbird searches the sky looking for GPS satellites.

**“Acquiring GPS Signal”:** Blackbird acquires positioning information transmitted from 1 to 3 tracked satellites while searching for more satellites (minimum 4 needed).

**“Fixing GPS Position”:** Blackbird requires continuous signals from 4 or more tracked satellites (for 30 seconds) in order to accurately fix your position.

**“Updating GPS Position in Real Time”:** Precise GPS position (latitude and longitude) with date and time is now updated every second through 4 or more active satellites.



**“Temporary Poor GPS Coverage”:** Thunderstorms, dense foliage or surrounding tall buildings may cause temporary loss of position fix (acceptable if under 30 seconds).

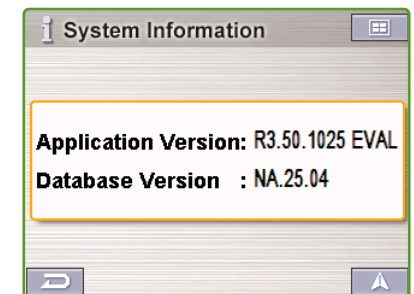
**“Poor GPS Signal, Lost Position Fix”:** You may have entered an area where consistently poor GPS signal (lasting 30 seconds or more) makes it impossible to maintain a position fix.

**“No Line of Sight, Lost GPS Tracking”:** You are in an area where line of sight to GPS satellites has been blocked.

### ■ Viewing System Information

You can check the application version and database version from the function. Make a note of this information and refer to it whenever you communicate with Alpine Tech Support or your Alpine authorized dealer.

- 1 Go to **Main Menu**  → **Information** .
- 2 Select **System Information**.

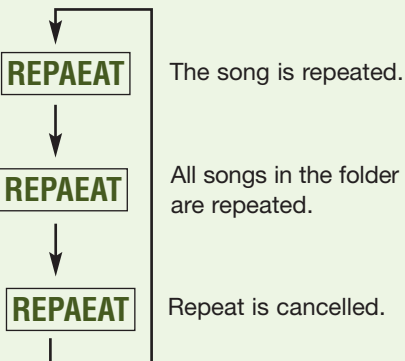


## ■ Listening to Audio



### REPEAT

Touching the **REPEAT** button will either repeat one song or many songs in a folder.



### M.I.X.

Touch **M.I.X.** to shuffle songs.  
Touch **M.I.X.** again to cancel the shuffle.

## ■ Loading Music into Your Blackbird

You can store up to 1GB of MP3 or WMA files giving you over 16 hours of music\*. Your music can be arranged in sub-folders for easy retrieval when using your Blackbird device.

\*MP3 files recorded at 128kbps. Blackbird only currently supports MP3 and WMA files without DRM.

- 1 Plug Blackbird's AC Adapter into a power outlet. Connect the AC Adapter to Blackbird's cradle connector.
- 2 Connect the USB cable to your PC and then to Blackbird.
- 3 Your PC will detect Blackbird as a removable storage device. Find the appropriate drive letter, open it, and copy songs over to the Blackbird. When you remove the USB cable and access the music player, the music will be available for you to select.

## ■ How to Update the New Software and Map Database

Using your home PC, Blackbird can be updated with the latest mapping and Point of Interest information. Please refer to instructions included with the update software on how to upgrade your Blackbird system.



## IN CASE OF DIFFICULTY

If you encounter a problem, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise make sure the rest of your system is properly connected, batteries are completely charged and contact your authorized Alpine dealer or Alpine directly at 1-888-NAV-HELP (1-888-628-4357).

### The vehicle's position is erroneous.

Drive the vehicle in an area of good GPS reception to allow the unit to recalibrate itself.

Move to a location where strong GPS reception is possible.

### No operation

- Moisture condensation → Allow enough time for the condensation to evaporate (about 1 hour).
- Ambient temperature over 122°F (50°C) → Lower the temperature in the vehicle to below 122°F (50°C) by driving with the windows open or air conditioner on.
- Blown fuse → Replace with a fuse of the prescribed rating (2A glass-type fuse located in the head of the cigarette lighter adapter).

### The monitor display is off-center.

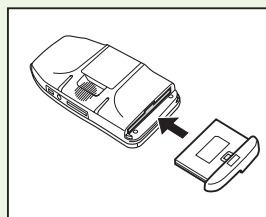
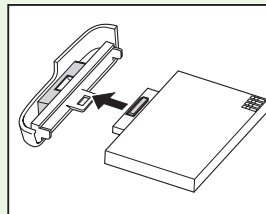
Go to **Main Menu** → **Setup** → **Display Adjustment**

## Battery Installation

### ⚠ WARNING

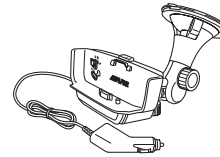
Always turn off power to the system before installing or removing the battery. Failure to do so will result in damage to your system.

- Place Blackbird face down on a flat surface.
- Press the battery door and pull away from the main unit body.
- Attach the battery to the battery door will be a click sound-heard.
- Insert and slide the battery assembly back into the main unit until a click sound is heard.

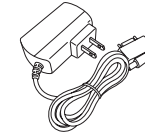


## IN THE BOX

### Accessories



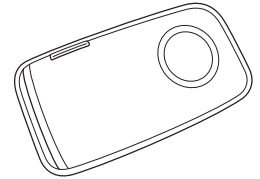
Cradle with Cigarette Lighter Charger



AC Adapter



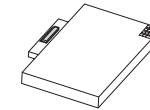
USB Cable



Carrying Case



Wiping Cloth



1200mAh Battery



Owner's Manual



Quick Reference Guide

- Dummy SD Card (Inside Main Unit)
- Registration Card

### Optional Accessories

The following accessories are available from your authorized Alpine dealer.

- PMD-DOK1** – A Docking Station that allows you to connect and experience Blackbird navigation and music player from your Alpine Multimedia Station or stand-alone display.
- PMD-KIT1** – A second car kit comprised of windshield mount, cradle, and home AC charger.
- PMD-ANT1** – An external GPS antenna hard-wired to Blackbird used in instances where you cannot normally receive GPS signals inside the car, due to metallic window tint, etc.
- PMD-BAT1** – A 1200 mAh Li-Polymer battery for extra battery power on the go.
- RUE-4140** – A combination navigation and audio remote control that allows you to control most of Blackbird's navigation features wirelessly.

# SPECIFICATIONS

## BLACKBIRD SPECIFICATIONS

<b>Main Unit Size</b>	6.1" x 2.9" x 1.2" (145mm x 74mm x 29mm)
<b>Main Unit Weight</b>	8 oz (227 g)
<b>CPU</b>	Centrality Atlas II ARM9 CPU
<b>GPS</b>	Embedded 16 channel GPS, Built-In Main Unit Antenna with Optional External Antenna Connection
<b>Storage Media</b>	Built-In 1" HDD with Pre-Loaded Maps of US* and CA Approximately 1GB allocated for MP3/WMA file storage (*Including Alaska and Hawaii)
<b>Card Slot</b>	Secure Digital (SD) or Multimedia Card (MMC)
<b>Audio</b>	Integrated speaker in main unit, amplified speaker in cradle, stereo headphone jack, optional docking station audio output
<b>FM Transmitter</b>	Built-in cradle, up to 10 selectable frequencies
<b>RDS-TMC Tuner</b>	Built-in main unit w/antenna in cradle power cable
<b>USB Interface</b>	2.0
<b>Power Requirements</b>	
<b>Handheld Mode</b>	5V @ 1A (via 1200 mAh Li-Polymer Battery, approximately 2 hours of continuous use)
<b>Cradle Mode</b>	12 VDC @ 2A (via Cigarette Lighter Adapter)
<b>Fuse</b>	AGC/3AG -2Amp
<b>Operating Temp</b>	32° to 140° F (0° to +60°C)
<b>Storage Temp</b>	-13° to 176° F (-25° to +80° C)
<b>Display</b>	
<b>Screen Size</b>	3.6" diagonal
<b>Resolution</b>	QVGA 320 x 240 pixels, 16.7M possible colors
<b>Display Type</b>	Digital TFT display with anti-glare touch screen
<b>Brightness</b>	200 nits (typical)

Note: Due to continuous product improvement, specifications are subject to change without notice.

# INDEX

<b>A</b>		<b>G</b>		<b>S</b>	
Accessories	33	GPS Status		Saving a Destination into the Address Book	20
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FCC Warning Message:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the users' authority to operate the equipment.

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.

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