

# GPS Navigation Box

## **BN701**



**User Guide**



## Contents

<b>SAMPLE SYSTEM</b>	<b>1</b>
<b>GENERAL INFORMATION</b>	<b>2</b>
<b>IMPORTANT INFORMATION</b>	<b>2</b>
<b>PACKAGE CONTENTS</b>	<b>4</b>
<b>INSTALLATION</b>	<b>5</b>
<b>1. Insert SD memory card</b>	<b>5</b>
<b>2. BN701 Navigation Box connection and installation</b>	<b>5</b>
2.1. Connection	
<b>3. BN701 Navigation Box installation</b>	<b>6</b>
<b>4. Test after installation</b>	<b>6</b>
<b>5. GPS Antenna Placement</b>	<b>7</b>

## Figures

FIGURE 1 SAMPLE SYSTEM	1
FIGURE 2 PRODUCT PACKAGE CONTENTS	4

# Sample System

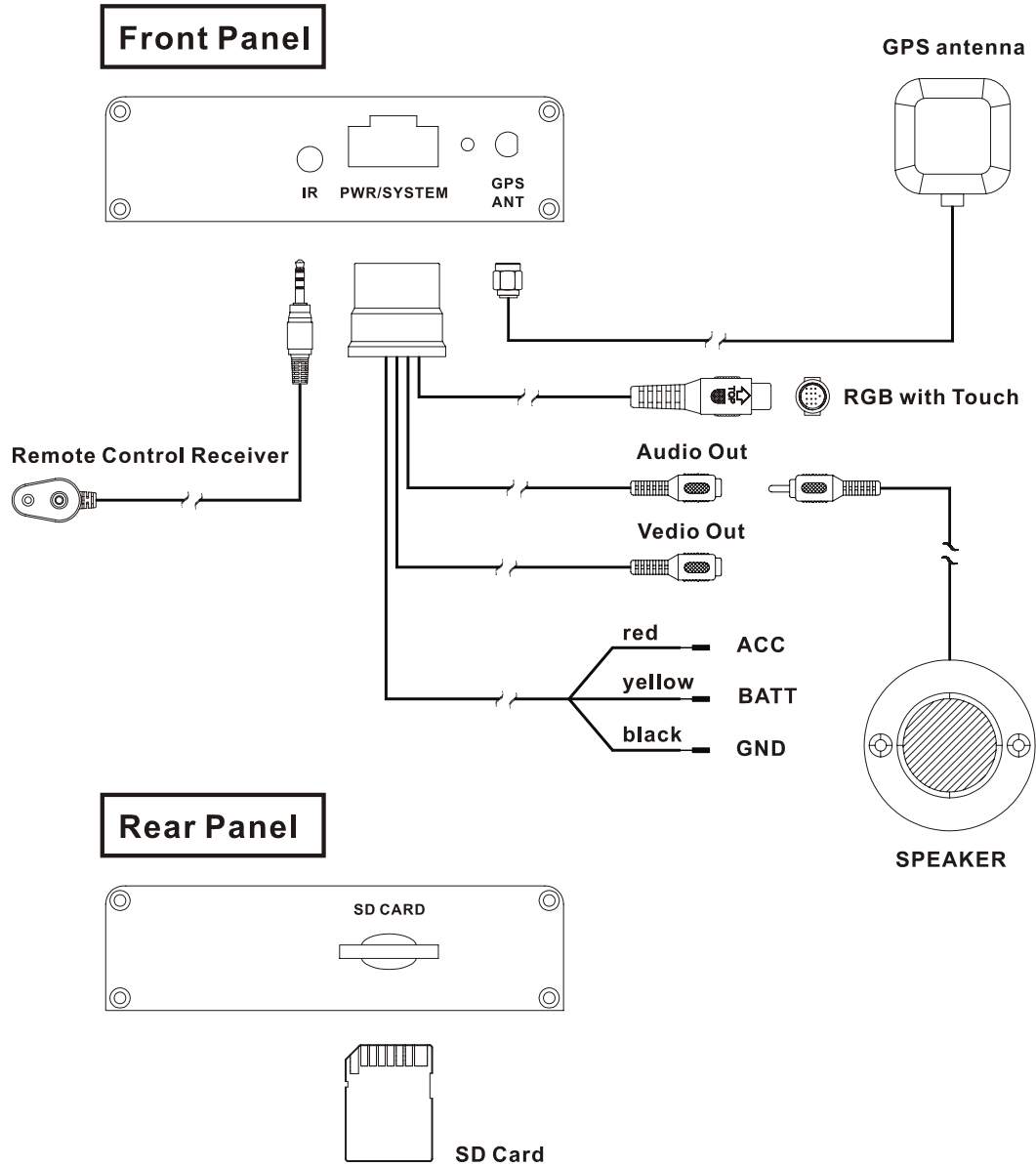


Figure 1 Sample System

## General Information

### Notes in installation and operating instructions

Please read this information carefully and follow all the instructions outlined below. This will ensure reliable operation and durability of your unit. Keep the packaging and operating instructions in a safe place in order to pass them on to a subsequent owner in the event of selling the unit at a later date.

The following reading aids are used to simplify these operating instructions:


 **Ask you to perform an action.**

 **Show the unit's reaction.**









 **Provide extra info.**

**Special notes or remark.**

 **Identify a list.**

 **Safety instructions and warnings contain important information for the safe use of the unit. Failure to observe this information may result in material damage or personal injury. Therefore, please observe this information with particular care.**

## Important Information






-  **The system must only be installed by trained personnel.**
-  **Observe automotive industry quality standards.**
-  **Fire hazard. When drilling, take care not to damage concealed wiring harnesses, the fuel tank or fuel lines.**
-  **Never drill into supporting or safety-relevant body parts.**
-  **It is essential to observe the following when installing components in the passenger compartment:**
-  **Ensure that the driver has a clear all-round view.**
-  **Increased risk of injury in the event of an accident. Do not install components in the inflation range of the airbag or in areas where the head or knees may knock against them.**
-  **Only install the unit in vehicles with a 12-V on-board voltage and negative pole on the vehicle body. Risk of malfunctions, damage and vehicle fire if**

**installed in unsuitable vehicles.**

- ⚠ Do not damage safety system wiring (airbag etc.). (Wiring is normally specially marked, e.g. by labels.)**
- ⚠ Do not use test lamps to test the voltage, since excessively high currents can damage /destroy electronic components.**
- ⚠ Do not use any pinch or cut connectors. Solder all wiring connections. Insulate all solder points with shrink hose or insulating tape.**
- ⚠ Fit toothed washers at earth connections to the vehicle body. If necessary, remove paint and dirt beforehand. Subsequently, protect bare metal against corrosion.**
- ⚠ In order to ensure perfect installation, use only the original components supplied. The use of non-authorized components may result in malfunction.**
- ⚠ Do not install the unit in positions where it is exposed to high temperatures, dust, dirt or excessive vibration (e.g. due to direct sunlight or heating vents).**

## Package Contents

Actual products' appearance might vary slightly from the pictures shown.

<p>#1 Navigation Box</p> 	<p>#2 Remote Control</p> 
<p>#3 IR remote receiver</p> 	<p>#4 Power cable</p> 
<p>#5 SD memory card (optional)</p> 	<p>#6 External GPS antenna</p> 

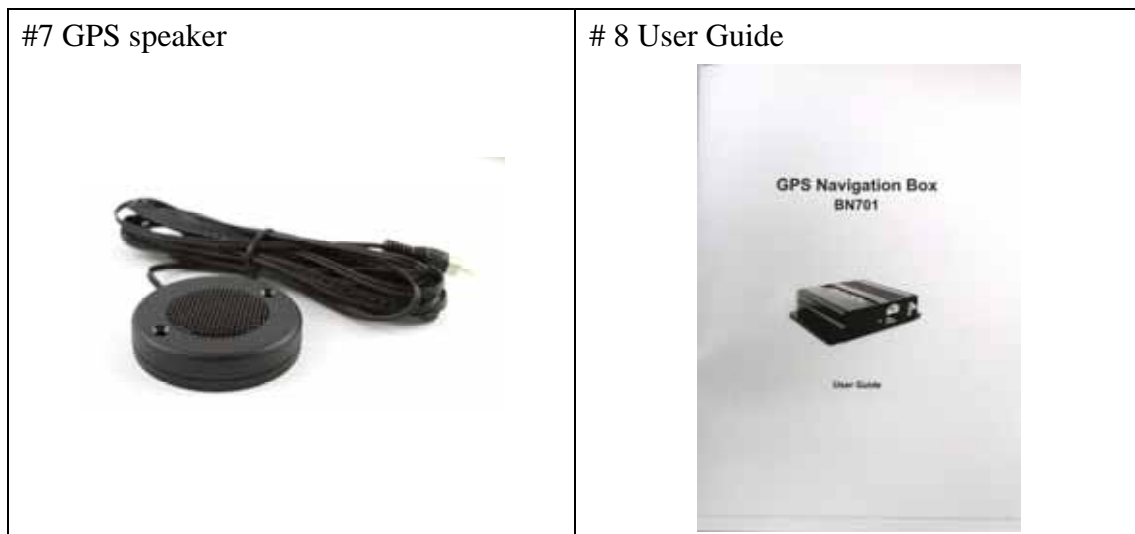


Figure 2 Product package contents

## Installation

### 1. Insert SD memory card

Insert the SD memory card into the memory slot on the BN701 Navigation Box

- ☞ Make sure that the memory card is inserted in the correct direction. In the wrong direction, do not force the memory card into the memory slot to avoid damage to the memory card or slot.
- ☞ To remove the SD memory card, press the end of the memory card, not to force the memory card out of slot, the memory card or slot may be damaged if you fail to follow this step.
- ☞ Please refer to the navigation software user guide for the navigation control ←

### 2. BN701 Navigation Box connection and installation

- ☞ Make sure that the vehicle's ignition device is turned off


#### 2.1. Connection

- ☞ Connect the connector of the system cables to the connector marked POWER/SYSTEM on the BN701 Navigation Box.
- ☞ Connect the other end of the system cables in sequence:
  - (Batt -) Black cable: Connect to the negative terminal of the vehicle battery.
  - (Batt +) Yellow cable: Connect to the positive terminal of the vehicle battery.

## FunStar Standard User Guide

---

- (Acc) Red cable: Connect to the key start ACC power switch.
- (Video output) Yellow RCA connector: Connect to the LCD monitor, for example Funtoro BM171.
- (Audio output) White RCA connector: Connect to the external speaker or to the GPS speaker.
- (Video out) Black round 13-pin RGB connector: Connect to 2-DIN device, for example Funtoro BD765.
- (Satellite Signal Input) SMA connector: Connect to the connector marked "GPS ANT" on the navigation box.
- (Remote Signal Input) 3,5mm connector: Connect to the connector marked "REMOTE" on the navigation box.

 Attention: The LCD monitor can be classified into two types (1) General LCD monitor and (2) Touch screen LCD monitor, for a easier control, please use Funtoro monitor BM171 touch screen monitor.


### 3. BN701 Navigation Box installation

Place the screws for BN701 Navigation Box installation in an appropriate location. To prevent the slot from being obstructed, do not install the unit in a wet area or an area directly exposed to sunlight.

### 4. Test after installation

- Turn the vehicle key to the ACC section and check if the LCD monitor turns on
- The Funtoro startup screen will be display when power is on. It will show the logo for about 10 seconds.

 Turn off the power immediately if smell or smoke is found.

 Attention! The following steps are applicable on for the SD memory card containing navigation software.


- About 10 seconds later when power is on, it should enter the navigation screen.
- Use the remote control to operate the navigation software and verify each function/button works and the remote control definitions are proper.
- Touch the LCD navigation interface to verify that the touch feature works (To enable this feature, you have to connect to a touch screen for RGB signals, This feature will be disabled if the LCD monitor does not have the

## FunStar Standard User Guide

---

touch screen feature.)

- After navigation software is started up, use the remote control or touch the screen to open the main menu to verify that the GPS signals are received properly.

 Attention: the unit must be tested in outdoor to receive the satellite signal.


- Try to specify a destination to simulate navigation and check if software is operating properly.


### 5. GPS Antenna Placement

Recommended antenna installation position and notices:

1. Roof
2. Above the trunk cover
3. Inside the front windshield

 Never press, pull, or bend the antenna when routing

 Do not allow water to enter the antenna or exposed sections.

 Remove the obstacles when you install the antenna inside the front windshield to avoid poor signal receiving

 Make sure that the GPS SMA connector is securely connected to the navigation box.