

AUTO-VOX

User Manual

Car wireless rear view system
Model: RVS-TD2B

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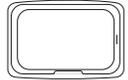
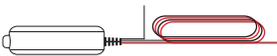
1/ Installation Guide

1.1 Introduction

Thank you for purchasing your TD-2 digital wireless backup camera kit.

Please ensure you read and understand all aspects of this manual before installing or using your TD-2 monitor and camera kit. Park in safe location and make all necessary adjustments. **NEVER WHILE DRIVING.** Prolonged use of the touch screen controls while driving may distract the driver or interfere with the driver's safe operation of the vehicle, and thus result in serious injury or death. Such use may also violate state or local laws.

1.2 Box Contents

1. LCD-Monitor 4.3" (10.9cm) with connector cable 	4. Power box with Antenna 
2. Monitor arm with suction cup base 	5. Camera with connector cable 
3. Car charger with connector cable 	6. Instructions for use 

1.3 Key Features

- Better view behind the vehicle for more safety
- Wireless, encoded 2.4 GHz radio transmission
- Wide angle of view (110 °)
- Night vision function
- Hazard distance guide
- User-friendly menu navigation
- Easy, low-key installation
- The perfect visual maneuvering and park assistance
- Contents: monitor, monitor bracket, 12V-24V car charger, power box with antenna, camera and mounting materials.

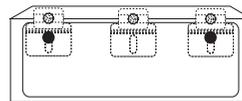
1.4 Installation

1.4.1 Installing the backup camera

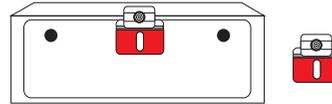
Step1 : Remove license plate.



Step2 : Mark the location where the backup camera will be fixed on (Left, Middle or Right)



Step3: Tear off the non-adhesive film of the 3M pad on the back of the bracket, and stick the camera on the marked location.



Step4: Tear off the non-adhesive film of the 3M pad on the front of the bracket to let the license plate stick on the bracket of the backup camera. And then tighten up the screws to fix the license plate.



Step5: Hole for Camera cable

Now look for an opening / drill hole near the license plate opening into the interior of the vehicle , to thread the connector cable plug of the camera into the interior of the vehicle. For added visibility and easy installation, remove the interior trim near the license plate.



Step6: Running the camera cable

Now run the camera cable to connect to the power box in the vehicle's interior / cavity. Be sure the cables aren't pinched or knotted. Now connect the plug from the camera cable to the 4-Pin socket of the power box.

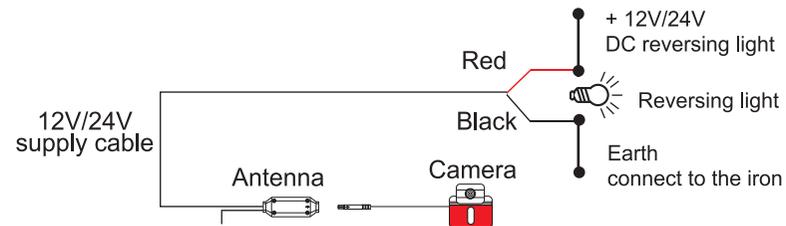
Step7: Connecting the power supply cable

Remove the cover of the reversing light.

Remove the bulb holder from the reversing light housing.

Find the vehicle supply cables to the reversing light.

Now connect the vehicle's 12 V / 24 V+(positive) power supply to the reversing light to the red cable. Then connect the black cable with iron part of the vehicle.



Note: If the display is nice and clear when turning the ignition to ON, but the screen flickers when the engine is running, then a power filter would be needed to eliminate flickers. Especially for some German cars and Dodge's cars.

Step8: Installing the power box

Secure the power box with cable ties. Be sure there are no electrical loads in the direct vicinity of the power box to avoid impairing the transmission. Now secure the camera and power box cables run in the void of trunk with cable ties. The cables run may not interfere with the vehicle's functionality!

Step9: Check the power supply cable

First engage the hand brake and be sure the vehicle is not shifted into gear.

Vehicles with automatic transmission must be in "P" for parking lock. Turn the ignition to (II) but do not start the engine!

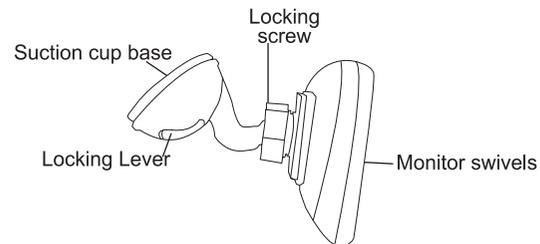
Stick the car charger into the vehicle's cigarette lighter to power on the monitor. If the power box correctly connected, a signal will now be transmitted to the monitor when putting the car into reverse and the monitor displays the camera's viewing range.

Caution!

Due to differences in technical and design-related vehicle types, these instructions for use do not apply to all vehicle models.

1.4.2 Installing the monitor

- Open the locknut and adjust the monitor to desired viewing angle. Now tighten the locknut to secure the monitor.
- Clean the area of the windshield or dashboard where you would like to attach the suction cup base. Now press the suction cup base onto the windshield or dashboard and move the locking lever toward the suction cup base.
- Connect the monitor cable with the car adapter cable.
- Now plug the car adapter into the vehicle's outlet (12V-24V). Place the monitor cable so as not to impact or jeopardize the safety of the vehicle and its passengers.



Caution!

The location of the monitor may not impair the visibility of the driver! Further, do not impair the functionality and operation of equipment, control units and systems inside the vehicle. Follow applicable laws and safety regulations for vehicles!

2/ Operating Instructions

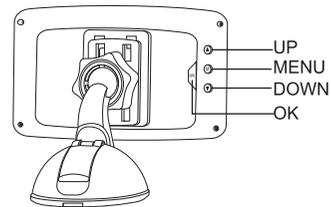
2.1 Monitor operation

M : Menu button for entering the adjustment mode, and the button for switching to different sizes of Guideline

ok : OK button for confirming the present operation, and cooperate with the "M-button" to accomplish the "pairing"

▲ : Forward/increase button

▼ : Back/decrease button



2.2 Monitor menu settings

- Press the (M) button to access menu mode. The display will show the menu settings for approx 5 seconds.

- Use the buttons(▲)and (▼) to increase, decrease or advance the following menu items:

Pair: pair the monitor with a new backup camera

B/C Control: adjusts the monitor brightness and contrast

Mirror/Normal: Switch between the mirror image and normal image

Guide Line: can be activated or deactivated

Reset: return to factory settings

- To leave the menu, please wait for about 5 seconds till it disappears.

Basic operations

Turn on the monitor

Power on the monitor simply by starting your car after plugging the car charger into 12V-24V outlet of the vehicle. Boot logo will appear on the screen and the indicator light up red after the monitor successfully turned on.

Pair

Note: Normally, monitor has been paired with the backup camera that you will find in the same package, before they leave the factory. The purpose of this mode is only for pairing with a new backup camera when the old one need to be replaced due to malfunction or damage.

Step 1: By Pressing the (M) button and then the (OK) button to let the monitor enter into "Pairing Mode", the indicator light flashes quickly and a loop icon displays on the screen.

Step 2: Let the backup camera get powered and it will automatically accomplish the pairing with the monitor, which is already in the "Pairing Mode". The real-time footage will display on the screen and the indicator light will stop flashing after accomplish pairing. The entire process may take about 6 seconds.

Reversing

After the backup camera is correctly connected to reverse light, it will turn itself on when you put your vehicle in reverse. In this mode the guideline will appear on the display to assist with reversing.

Choose the sizes of guideline

Step1: Put the vehicle into reverse.

Setp2: After the transmitted camera image be displayed on the monitor.

Press (M) button for about 3 seconds you will be able to choose 6 different sizes of guideline.

Press "▲" button and "▼" button to narrow and wide the guideline. Press"OK" button to confirm your option.

Turn off the monitor

When car is not in reversing, the monitor will go on standby (LED turn red) and nothing shows on the display.

The monitor will automatically turned off when car is off.

3/ MAINTENANCE AND CARE

3.1 Cleaning, maintenance and storage

3.1.1 Caution! Power off the monitor and unplug the vehicle's 12V /24V power supply before cleaning the monitor.

3.1.2 Clean the backup camera kit with a dry cloth. Do not use liquids or harsh cleaners as these may cause discoloration and damage to the surface of the equipment and the backup camera kit may be damaged! Do not allow liquids to enter the equipment! Never immerse the equipment in liquids! Only operate the backup camera system when dry.

3.1.3 Always keep / store the backup camera kit in a dry environment! Moisture may damage the elections of the backup camera kit!

3.1.4 Do not store the backup camera kit under extreme temperature fluctuations! Condensation generated under

these conditions could damage the electronics!

3.1.5 If the camera joint loosens over time you may readjust it.

4/ TECHNICAL SPECIFICATIONS

Device designation	Backup camera kit TD-2
Service and operating temperature	-20 °C to +65 °C
Transmission range	max. 100 meters in open range

Monitor:

Diagonal screen size	4.3"/10,9 cm
Resolution	480 x 272 pixel
Dimensions	approx. 120x80x20 mm(l * w *h mm)
Technology	LCD color display
Power supply	12V-24V(volt) direct current

Camera:

Resolution	480 x 272 pixel
View angle	110°
Color sensor	1/3 inch color Cmos Senser , 5 glass lens
Exposure	automatic
White fader	automatic
Camera tilt	Variable adjustment angle to approx. 30°
Power supply	12V-24V(Volt)direct current
IP Class(Protection type)	IP68, waterproof
Minimum illumination	0.1Lux

5/Troubleshooting

Error / malfunction	Possible causes	Solutions,repair
<p>The vehicle ignition and the monitor are not powered on. The red LED doesn't light up.</p>	<p>The 12 V-24 V monitor cable plug is not plugged into the vehicle's cigarette lighter or a 12 V-24 V outlet.</p>	<p>Plug the 12 V-24 V monitor cable into the cigarette lighter or a 12 V-24 V vehicle outlet.</p>
	<p>The fuse for the vehicle's cigarette lighter or the 12 V-24V outlet is burned out and must be replaced.</p>	<p>Replace the defective fuse for the cigarette lighter or the 12 V-24V outlet inside the vehicle's fuse box.</p>
	<p>The 12 V-24 V monitor is damaged.</p>	<p>Contact the seller to require a new monitor.</p>
<p>The ignition is switched on with R-gear, but the monitor display is blank.</p>	<p>There is no connection between the camera and the monitor. The camera cables may not be correctly connected or have loosened.</p>	<p>Check if the camera connection cable is correctly and securely connected to the reversing light cable.</p>

Error / malfunction	Possible causes	Solutions,repair
The image on the monitor shows interference.	Other wireless appliances (e.g. mobile phone) are interfering with the signal between monitor and camera.	Switch off all other wireless appliances(e.g. mobile phone)
	The wireless connection between monitor and camera is too weak, thus interfering with data transmission.	Position the power box closer to the monitor or adjust the position of the monitor.
	The camera lens maybe dirty.	Carefully clean the camera lens.
The monitor image is not displayed clearly	Bright light is hitting the camera lens	The image quality will improve once you move out of the area of the interfering light.

6/**WARRANTY AND SERVICE**

You (as the end user) receive a 12-month guarantee from the date of purchase.

Please contact the point of sale or qualified specialists for damage, repairs or other issues with the product during the guarantee period.

The general warranty terms apply to defects in production and materials. Please return defective products to the point of sale.

For speedy processing of your warranty claim you will need:

- Copy of the receipt showing the purchase date.
- Reason for the claim (description of defect)

Customer support and firmware updates can be found at **www.autovoxclub.com**

Alternatively, send an e-mail to a service representative at **service@auto-vox.com**

FCC Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's 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

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body



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