80.00 mm

Customer Name	Installing Dealer
Date Purchased	Date Installed
VIN#	
Vehicle Mileage	

© 2016 Rostra Precision Controls 2519 Dana Dr. Laurinburg, NC 28352 300-81LPB-M



Sight Addvantage by Rostra License Plate Backup Camera



300-81LPB Installation & Users Manual

Specifications and Features:

- * Reversible Image
- * Surface Mount Bracket Included
- * NTSC/PAL Output
- * 60 FPS Progressive Scan
- * 160 Degree Viewing Angle
- * Operating Temp: -22F +185F
- * Current Draw: Max 80mA

- * Operating Voltage 6 -16vdc
- * Selectable Parking Lines
- * Includes 30' Video Cable
- * IP68 Rated
- * Waterproof, Dustproof & Vibration tested.
- * Minimum Illumination <0.2Lux
- * 1/3" 670x490 CMOS Imager

Size: 130*80 mm

Material: Both-side coated paper 127g

CONTENTS

Warnings 2
Product Description 3
Packing List 4
Camera Installation 5
Camera Wiring Diagrams 8
Troubleshooting9

Rostra Precision Controls is committed to quality and customer service, and are pleased to offer you this Warranty. Who is covered?

The Company extends this warranty to the original purchaser of this product when purchased through an authorized retailer in the U.S.A., Puerto Rico or Canada. This warranty is not transferable or assignable. Proof of purchase is required in the form of an original sales receipt or installation receipt.

What is covered?
The Company warrants that should this product or any part thereof, under normal use, be proven defective in material or workmanship within 12 months from the date of original purchase, such defect(s) will be repaired or replaced with a new or reconditioned product (at the Company's option) without charge for parts and repair labor.

What is not covered?

This Warranty does not cover the following:

Damage incurred during shipping or transporting the product to the Company or a service center, Elimination of car static or motor noise, Defects in cosmetic, decorative, or non-operative structural parts. Costs incurred for installation, removal or reinstallation of the product. Consequential damage to accessories or vehicle electrical systems. Damage caused by improper installation, mishandling, misuse, neglect, accident, blown fuse, theft or improper storage. Damage resulting from moisture, humidity, excessive temperature, extreme environmental conditions or external natural causes.

To obtain repair or replacement within the terms of this Warranty, Contact your installing dealer or installation center.

THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

1

Troubleshooting

Symptoms	Solutions
There is no picture showing while in reverse gear.	1: Check all wiring connection to insure nothing is unpluged or damaged. 2: Check the fuse on the camera power lead. If blown only replace with a 1amp fuse. 3: Check the monitor wiring and trigger wire.
The picture is fuzzy, unclear, or grainy.	1: Check the camera lens, clean with a soft cloth if dirty. 2: Check your monitor settings. 3: Insure no other device in the vehicle is causing the poor signal, if needed re-route the video cable. 4: Check the power source, is it supplying enough current?
The picture stays on even after I am out of reverse gear.	Check your trigger wire and power wire for the camera with a meter to insure you have connected to a proper trigger source.

Warnings

The product is intended to assist in safe driving and to allow the driver to have a broader rear view while the vehicle is in reverse. You, as the driver, are solely responsible for the safe operation of your vehicle and the safety of your passengers according to local traffic regulations. Do not use any features of this system to the extent it distracts you from safe driving. Your first priority while driving should always be the safe operation of your vehicle.

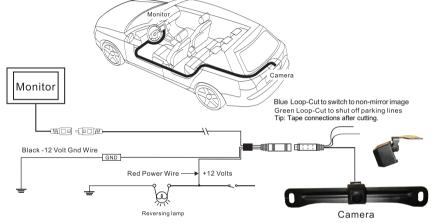
- This product utilizes high voltage. Any unauthorized modifications or damage to the product may result in electrical shock. Handle all components with care. Inspect regularly for damage to components and cabling.
- You are responsible for ensuring that the installation of this product does not void or affect the
 vehicle manufacturer's warranty. Rostra Precision Controls is NOT liable in full or any part for
 improper installation that may in any way cause damage too or invalidate your vehicle warranty.
- Do not apply excessive force to any of the components contained within this kit.
 Excessive force used before, during or after installation that results in a damaged or non-functional part will void all warranties.
- 4. Please follow the procedures in this installation manual. Improper installation or modification of this product will void all warranties.

Product Description

This camera is designed to be used on many tyoes of vehicles and applications, it is easy to mount on your car, truck, or van but **ALWAYS CHECK AND DOUBLE CHECK** before drilling or mounting any item on the vehicle. Make sure there are no obstructions in front of the camera, behind where mounting the camera, and that the wire can be run without pinching or interfering with any other item. Always use caution when running wires and insure they do not interfere with airbags or other safety equipment.

This Wired Camera is compatible with most monitor/TFT screens and can be connected using a standard RCA connector. If an extension lead is required be sure to use a Video cable with RCA type ends. An Audio cable will cause poor picture quality.

Camera Wiring Diagrams



NOTE: If used in a vehicle with LED tail lamps a relay may be required to insure proper current is supplied and no error codes are set in the vehicle.

3

- 6. Use the included hardware to secure the camera in place. DO NOT OVERTIGHTEN the hardware.
- 7. Wire the Camera's power wire to the vehicle's reverse lamp.
 - a) Locate the reverse lamp in the tail light assembly.
 - b) Using a crimp connector or by soldering attach the red wire to the positive 12 volt wire from the reverse lamp. This should only have power when the car is in reverse gear and the white lamp it illuminated. Attach the black wire to the black wire to the ground (Negative 12 Volts only).
- 8. Run the video cable to the front of the vehicle for connection to your monitor. Use caution to insure you do not interfere with any safety device or other items.

NOTE: Some vehicles with LED style tail lights will require the camera be connected to a accessory power source as the tail light circuit is not designed to power other devices.

Packing List

Parts	Part #	Quantity
Camera	300-81LPB	1
Power Cable & Video Cable	300-81LPB-EC	1
Mounting Screws / Hardware Bag	300-81LPB-HB	1
Camera Surface Mnt Bracket	300-81LPB-SB	1
Manual Pack	300-81LPB-M	1

If using the 300-81LPB as a surface mount camera, remove the license plate bracket and install the surface mount bracket provided. Use only the provided hardware. Be sure to not overtighten the mounting bracket to camera bolt and nut as you could damage the camera case.

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Camera Installation

- 1 Remove the rear license plate.
- 2. Examine the vehicle to determine the best way to run the power wires to the reverse lights and the extension cable through the car.
- 3. The Camera can be mounted above or below the plate. (For surface mounting with the included bracket, see the next section.) Determine the mounting location that best suits your needs. Be sure to verify that your installation plan complies with local laws and requirements. Most states require that the state name, registration stickers, and license number are not obstructed in any way.
- 4. Place the camera bracket behind the license plate and line up the holes. Fasten the camera mounting bracket and the license plate to the vehicle using the anti-theft screws provided. After installation of screws with the tool provided, place the tool in the glove compartment or other safe place for future use.

- 5. Route the camera wiring into the vehicle. The wire can be run through an existing grommet, behind a tail lamp, under the trunk molding, or if necessary, through a 5/8 inch hole drilled near the vehicle's rear license plate. When choosing a wiring path, make sure the cable will not be damaged or pinched, as this may cause a short circuit that is not covered by the warranty. If drilling a hole, perform the following steps:
 - A.You will need a $\frac{1}{2}$ " Drill bit, a bottle of Rust Preventive, and a $\frac{1}{2}$ " rubber grommet.
 - B.Check and re-check behind the spot you choose to drill your access hole through. Insure that no wires, safety equipment, or mechanisms will be damaged or interfere with the instalation.
 - C.Check to insure you will not block the license plate lights, hatch release switch, or hatch mechanism.
 - D.Drill a ½" hole at the selected location.
 - E.Coat the edge of the hole with Rust Preventative.
 - F.Route the camera harness through the grommet and then through the hole.
 - G.Insert the grommet into the hole to protect the wire and keep water from entering the vehicle.