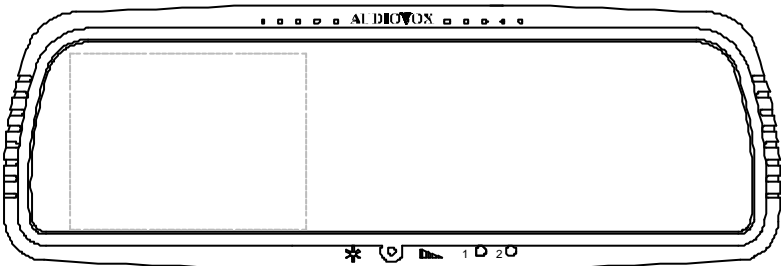




**AUDIOVOX®**  
ELECTRONICS CORP.

## **Rear Observation System Package Model RVMPKG3 Installation Manual**



### **Features:**

- **Rearview Mirror with 4" LCD**
- **2 Built in Speakers**
- **Rearview Camera Input**
- **Auxiliary Video Input**

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# Cautions!

The product is intended to assist in safe driving and to allow the driver to have a broader rearview 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 the country and their 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. Audiovox Electronics Corporation cannot accept any responsibility whatsoever for accidents resulting from failure to observe these precautions or safety instructions.

1. This product utilizes high voltage. Any unauthorized modifications or damage to the products may result in electrical shock. Handle all components with care. Inspect regularly for damage to components and cabling.
2. You shall be responsible to ensure that the installation of this product does not void or affect the vehicle manufacturer's warranty. Audiovox Electronics Corporation, or its branches are not liable in full or in part for improper installation resulting in loss or damage to your property, or for voiding all or part of the vehicle manufacturer's warranty.
3. 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 shall void all warranties.
4. Please follow the procedure from this installation manual. Improper installation or modification of this product shall void all warranties.

# Preface

There is a blind spot that exists at the back of a vehicle while the vehicle is in reverse. Equipped with a camera, this electronic rearview mirror ensures safety by providing the driver with a clear and wide image of the area behind the vehicle whenever SW1 is pressed.


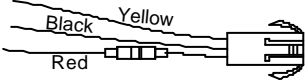
## **WARNING:**

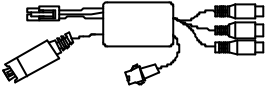



### **Backing up vehicle**

Do not back up vehicle while watching the mirror/monitor screen. Always look in the direction of vehicle motion. Use the mirror/monitor as an aid in safety confirmation. The distance looks different in the monitor. The actual distance is shorter than it looks in the monitor. The range of image is limited. Beware of blind spots.

## **Packing list**

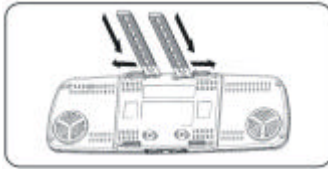
The Rear Observation System Package Model consists of the following items:

Item	Description	Figure
1	Rear View Mirror	 A rectangular electronic rearview mirror with a black frame and a central display area.
2	Power Cable	 A power cable with three wires labeled Black, Yellow, and Red, and a connector at the end.

3	Adapter	
4	Fastening Belts	
5	Rearview Camera	
6	Camera Cable	

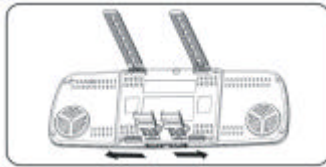
## 1. Installation Instructions

- (1) Mount the mirror/monitor onto the existing rearview mirror.
  - a) Take the two belts and slide them into the slots on the top rear of the mirror with grooved side of the belt facing down..



**Figure 1**

- b) Take the buckles and slide them into the lower slots on the rear of the mirror with the buckle facing down toward the strap.



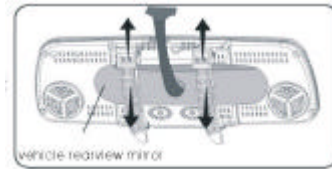
**Figure 2**

**NOTE:** The large opened rectangle on the buckle will face away from the strap.

- c) Mount the new rearview mirror/monitor onto the existing one. Add

the

rearview mirror onto the existing mirror from one side with one fixed belt. Then fasten the other belt on the other side of the mirror. To prevent the mirror from falling off, tighten the belts until secure to the factory rearview mirror on both sides.



**Figure 3**

d) Cut off excess part of straps.

(2) Wiring the System.

1. **RED FUSED WIRE: +12 VDC ACCESSORY SOURCE**

Connect this wire to a source that is 12 volts when the Ignition key switch is turned on, and 0 volts when the ignition key switch is turned off.

2. **BLACK WIRE: CHASSIS GROUND**

Connect this wire to a solid, metal part of the vehicle's chassis.

3. **YELLOW WIRE: GROUND WHEN PARKING BRAKE IS APPLIED**

Connect this wire to the wire from the parking brake that turns on the parking brake light on the dash. This wire will have voltage on it while the Ignition key switch is turned on and 0 volts when the parking brake is pressed.

(3) Connect the mirror cables adapter and power cable follows the fig.7 illustration for connection.

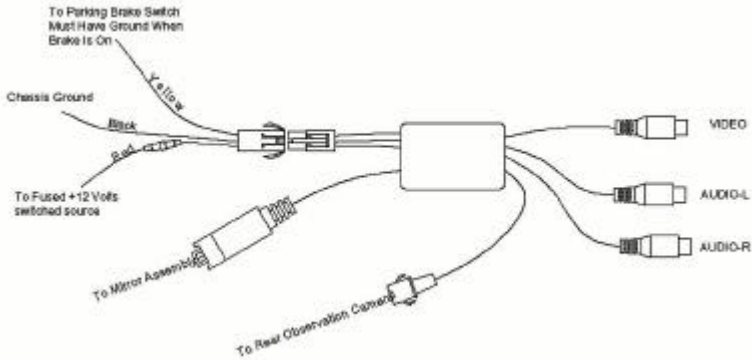
## 2. Signal Inputs

The signal input connections for the system include:

(1) **Rear Camera:** By connecting rear camera with 4 pin connector at the

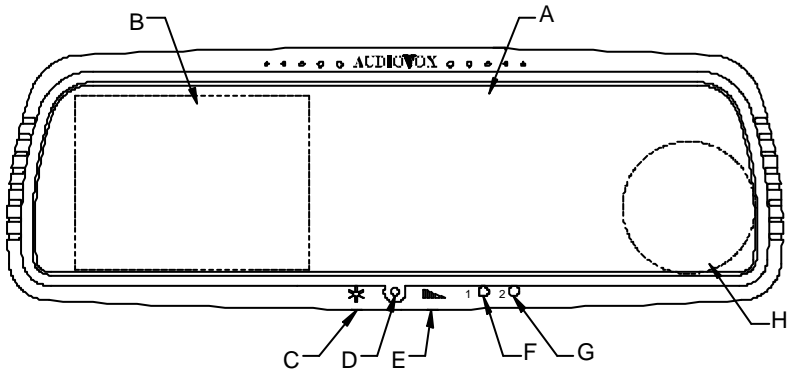
end of the Main Cable .

- (2) **Audio/Video Input Plugs (RCA)** are located at the end of the Main Cable. By connecting video and audio signals with these plugs, the user can enjoy watching video, **only** while the parking brake is on.



**Figure 5**

### 3. Controls and Indicators



**Figure 6**

Figure 6 illustrates the controls and indicators of the (RVMPKG3) rear view mirror:

- A:** Rearview mirror
- B:** 4" LCD panel
- C:** Brightness Control knob
- D:** Power indicator (Red when power is on)
- E:** Volume Control Knob
- F:** Switch 1 (see below)
- G:** Switch 2 (see below)
- H:** Speakers

**SW1 and SW2:**

SW1: Used to turn the LCD on/off .

SW2: Used to toggle display image between rearview camera and DVD/VCR.

## Specifications

### General

Power Supply	12VDC
Power Consumption	<10W
Current Draw	<500 mA
Video Input	1V <sub>p-p</sub> @ 75 Impedance
Audio Input	<=500mV
Audio Power Output	0.5W × 2 (16Ω)
Operating Temperature Range	-10° to 60°
Overall Dimension	11W × 3.75H × 1.25D inch

### Display System

Screen	4" TFT Color LCD
Brightness	250 nit



Contrast ratio	150:1
LCD Viewing Angle	Top-10°, Bottom 30°, Left 45°, Right 45°
Resolution	480 × 234
Video Format	NTSC
Display Format	4 : 3

## Maintenance

Your rearview mirror requires little care, however to maintain it in optimum condition follow the procedures below:

1. Keep your system away from excessive moisture, extreme heat or cold and magnetic fields.
2. Keep liquids away from the display.
3. Do not place external devices or other objects on the top of the mirror.

Occasionally clean the surface of the mirror with a soft cloth moistened with water or window cleaner.

## Troubleshooting

**Table 1 Rearview Mirror**

Symptoms	Solutions
The ON/OFF signal light <D> is not on after the car is started?	<ol style="list-style-type: none"> <li>1. Check the installation-wiring diagram.</li> <li>2. Ensure that the parallel red and black line is connected properly.</li> </ol>

No video signal appears while reversing the car?	<ol style="list-style-type: none"><li>1. Check the LCD Contrast (Brightness) control knob whether the contrast knob is set too low.</li><li>2. Check the rearview Camera lens.</li><li>3. Check the rearview Camera wiring and connection.</li><li>4. Check the cable from the rearview mirror is connected properly .</li></ol>
Video image is not sharp enough?	Clean the lens of the camera.

## Illustration for connections

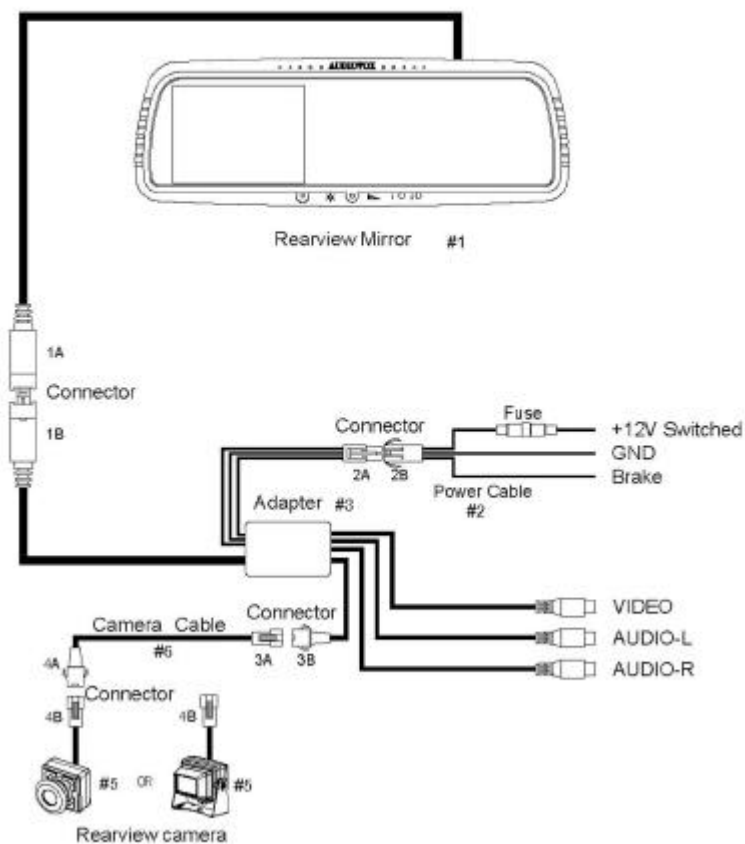


Figure 7



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