

# Operating Instructions

Monitor  
GP-RV202



**Panasonic®**

Before attempting to connect or operate this product, please read these instructions completely.

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**CAUTION**

RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**CAUTION:**  
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

The serial number of this product may be found on the bottom of the unit.

You should note the serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid identification in the event of theft.

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

**WARNING:**  
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

## PREFACE

Panasonic's GP-RV202 Monitor has been developed exclusively for use in large trucks, buses and other commercial vehicles.

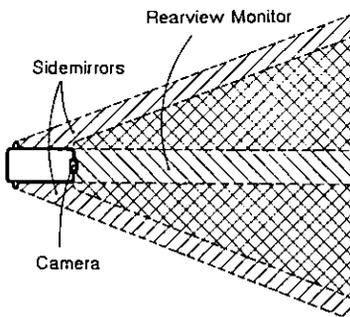
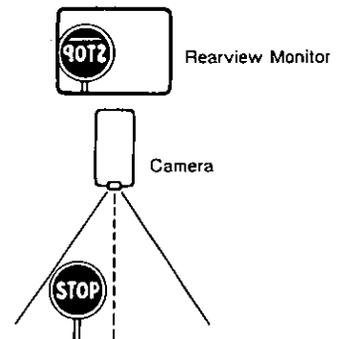
By combination with Panasonic's Rear View Camera, GP-RV201, dangerous blind spots can be reduced significantly.

## FEATURES

1. Easy-to-see screen : 5.5", flat square
2. Accepts DC12V or DC24V power source
3. Day/Night Selection Switch for Brightness Control
4. Remote STANDBY/ON control by reverse gear position signal.
5. Manual STANDBY/ON mode selection.
6. Compactly designed 5.5" B/W monitor enables it to fit almost anywhere.

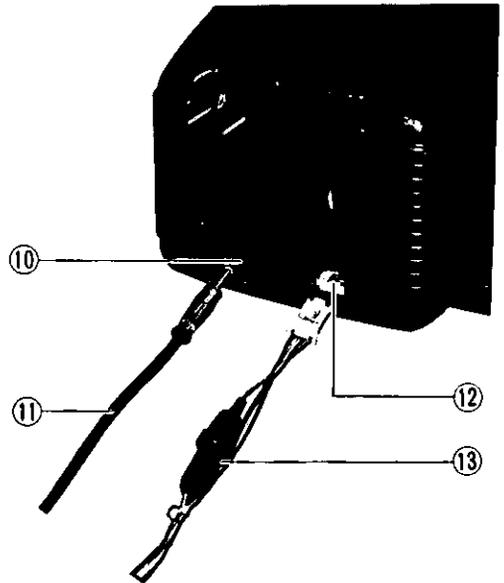
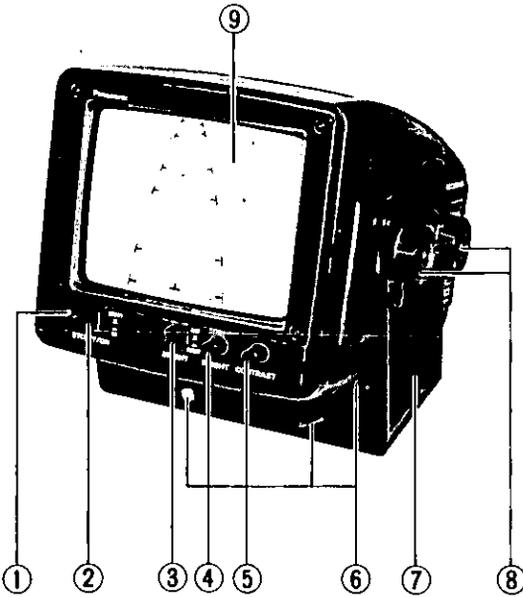
## PRECAUTION

1. Do not attempt to disassemble the monitor.  
To prevent electric shock, do not remove screws or cover.  
There are no user-serviceable parts inside.  
Refer servicing to qualified service personnel.
2. Do not expose the monitor to rain or moisture, and avoid operation in wet areas.  
Take immediate action if ever the monitor does become wet.  
Turn power off and refer servicing to qualified service personnel. Moisture can damage the monitor and also create the danger of electric shock.
3. Use both the rearview mirrors and the driver's monitor when backing the vehicle. Avoid using only the driver's monitor to confirm the back of the vehicle since the view range of the driver's monitor is limited.
4. Note that the left and right sides of the image on the monitor are reversed, just like that of the rearview mirror.



5. Do not block the ventilation slits on the monitor. Install the monitor while paying attention to ventilation space for the monitor.
6. Do not use the monitor beyond its temperature, humidity or power source ratings.
  - (a) The ambient temperature must not range beyond 5°F - 140°F (-15°C - +60°C).
  - (b) Avoid using the monitor when the humidity is above 90%.
  - (c) The input power source for the monitor must be within the specification.

# MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS



## 1. Mode Indicator

This indicator shows the operation mode as follows.

### STANDBY :

The indicator will be lit green.

### ON :

The indicator will be lit amber.

## 2. Mode Selection Switch

This switch is a push-push type and is used to select the operation mode as follows.

### STANDBY :

The heater for the monitor's CRT is preheated and all other circuits, including the rear view camera, are shut off.

### ON :

The rear view picture will be displayed on the monitor.

## 3. Day/Night Selection Switch (BRIGHT, DAY/NIGHT)

This switch is a push-push type and is used to control the brightness level of the picture.

### DAY :

Normal brightness level will be displayed.

### NIGHT :

Reduced brightness level will be displayed.

## 4. Brightness Control (BRIGHT)

This control is used to adjust the brightness of the picture on the monitor.

## 5. Contrast Control (CONTRAST)

This control is used to adjust the contrast of the picture on the monitor.

**6. Fixing Holes**

These 4 holes are used to fix the monitor fixing bracket to the vehicle.

**7. Monitor Fixing Bracket**

This is used to install the monitor to the vehicle.

**8. Monitor Fixing Screws**

These 4 screws are used to secure the monitor. The tilt of the monitor can be changed approx. 30° (20° : Upper or 10° : lower) by loosening these screws.

**9. Distance Panel**

**10. Camera Cable Connector (CAMERA)**

This connector is used to connect the optional camera cables GP-CA40 (33ft, 10m), or GP-CA41 (66ft, 20m).

**11. Camera Cable (Sold Separately)**

**12. Power Source and Remote Connector (DC IN/REMOTE)**

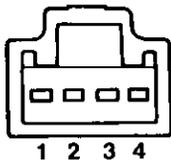
This 4-pin connector is used to connect the power and remote cable.

Pin No.1 : Ground

Pin No.2 : Ground

Pin No.3 : Remote Input (Reverse position)

Pin No.4 : DC+12V or DC+24V Input



<Front View>

**13. Fuse Holder**

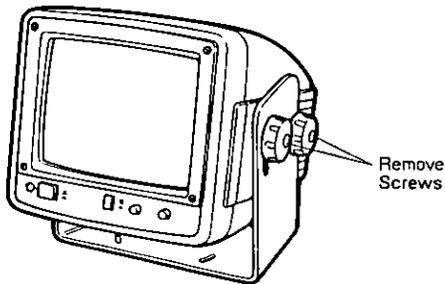
**Caution :** When replacing the fuse, use only the specified one (3A, Part NO. XBA1C30NU100).

# INSTALLATION

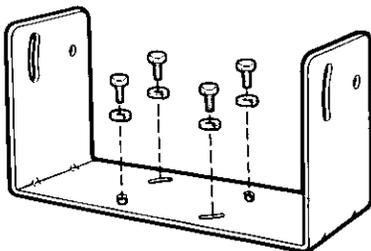
## Caution :

It is suggested to protect the camera cable during installation to prevent damage to the cable.

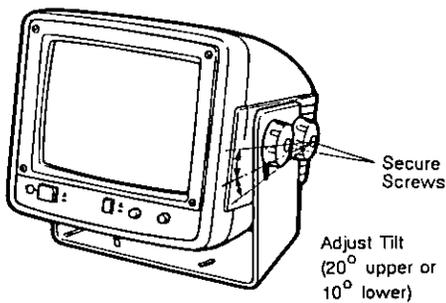
1. Remove the 4 monitor fixing screws which are hold the monitor and remove the monitor fixing bracket.



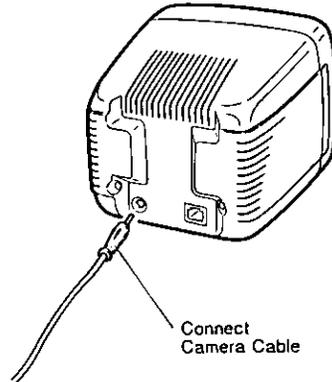
2. Secure the monitor fixing bracket by using 4 bolts (obtained locally (6mm/bolt)).



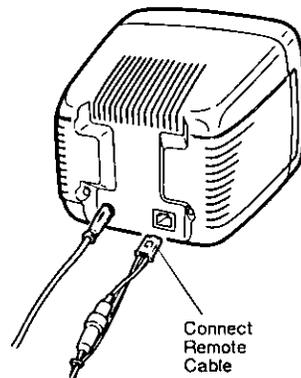
3. Secure the monitor onto the monitor fixing bracket by using the supplied 4 monitor fixing screws and adjust the tilt of the monitor.



4. Connect the optional camera cable to the camera cable connector (CAMERA) on the rear of the monitor.



5. Connect the supplied remote cable to the power source and to the remote connector (DC IN/REMOTE) on the rear of the monitor.

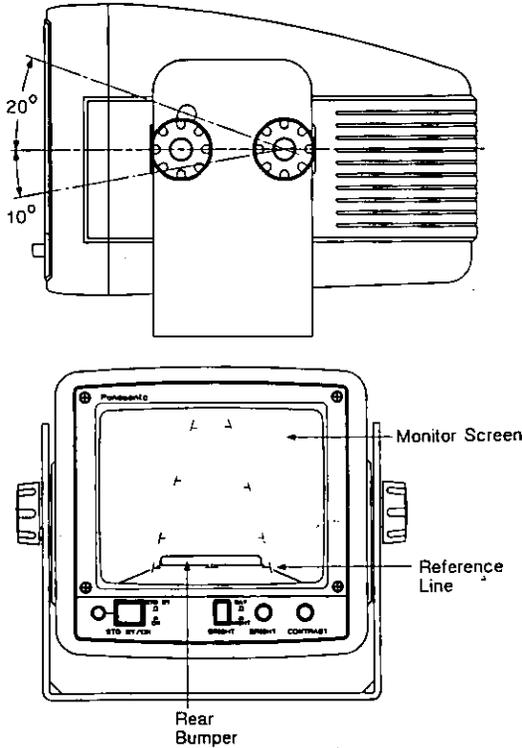


7. Connect the +12V/24V wire (Red) to the +12V/24V line which is electrically after the ignition switch, the remote input wire (Blue) to the +12V/24V line for the reverse light and the ground wire (Green) with lug to the chassis of the vehicle.

## ADJUSTMENT

The following adjustment should be made by qualified service personnel or system installers.

1. Adjust the camera's tilt by first loosening the 4 hex bolts and then tilting the camera so that the rear bumper positions on the reference line of the distance panel on the monitor screen.

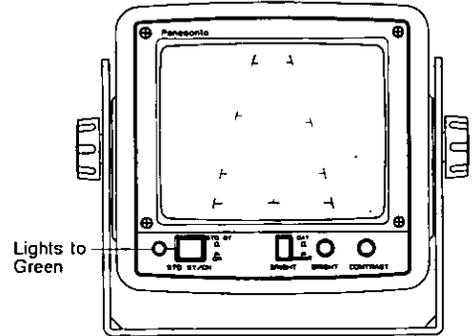


### Caution :

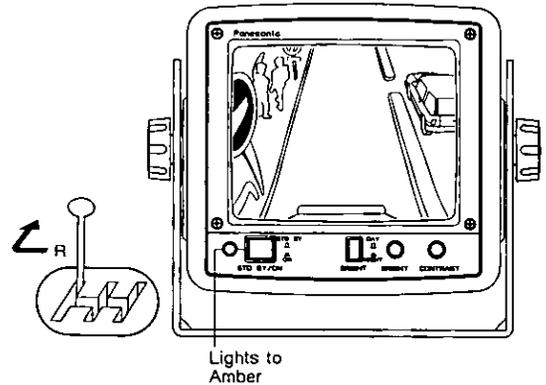
The distance lines indicated on the distance panel are distances on ground level. Obstacles in mid air may seem to be more distant than they actually are.

## OPERATING PROCEDURE

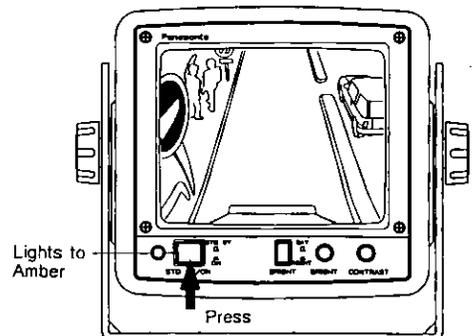
1. Turn the ignition switch to the ON position and confirm that the Mode Indicator LED lights to green (STANDBY mode).



2. Whenever changing the gear shift lever to the reverse position, the Mode Indicator LED turns to amber (ON mode) and the rearview picture can automatically be seen on the monitor screen in a few seconds.

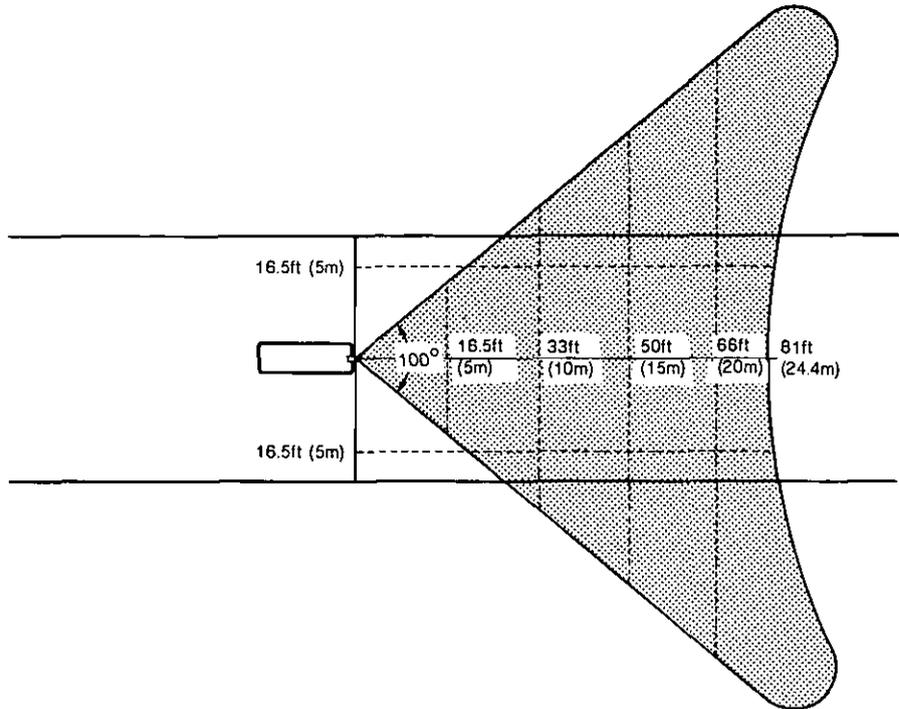
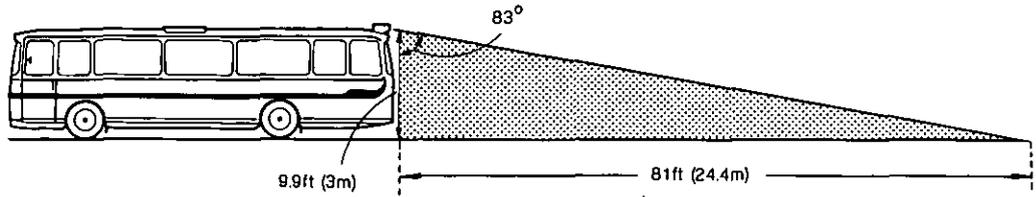


3. Whenever changing the gear shift lever to other than the reverse position, the Mode Indicator LED turns to green and the picture on the monitor will disappear.
4. Even the gear shift lever is not in the reverse position, the rearview picture can be seen by pressing the Mode Selection Switch once.

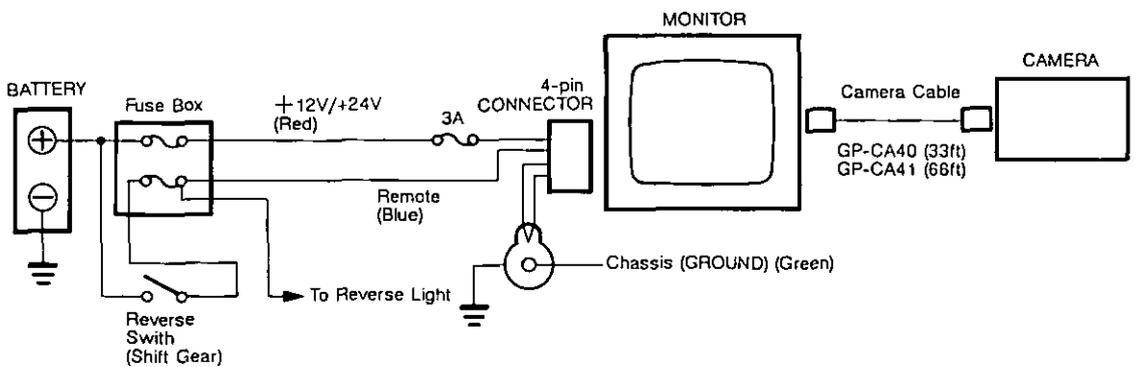


5. To reset the monitor to the STANDBY mode, press the Mode Selection Switch once again.
6. Adjust the Brightness and Contrast controls for desired brightness and contrast.

## VIEW RANGE

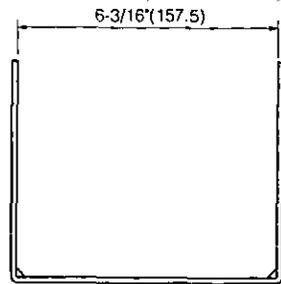
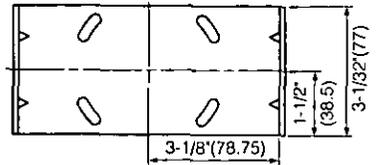
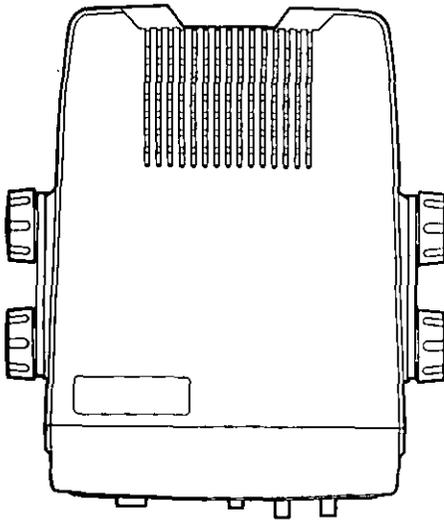
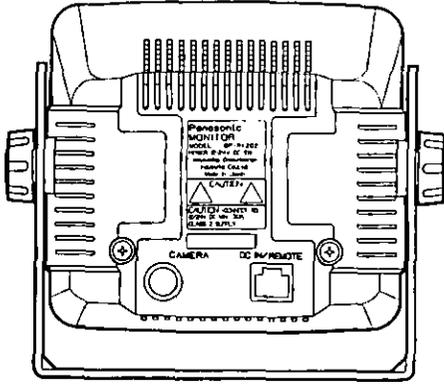


## SYSTEM CONNECTION

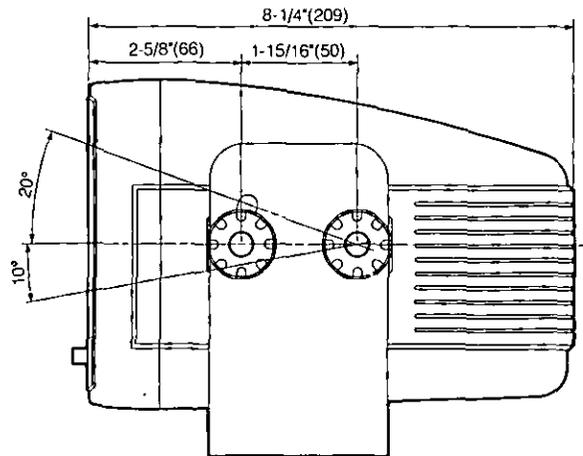
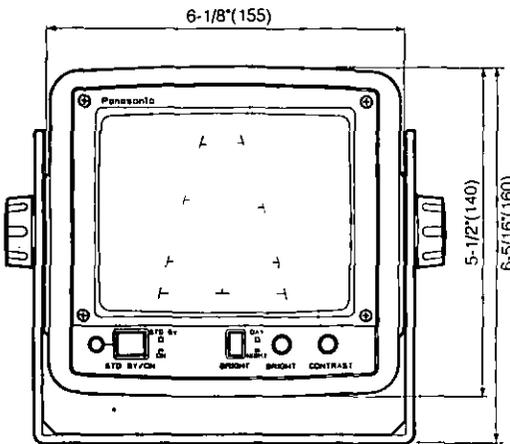


# TECHNICAL DATA

Unit : inch (mm)



<Fixing Plate>



## SPECIFICATIONS

Power source :	DC 12V 1.25A/24V 0.63A
DC Input Voltage for Power Source :	DC 10V - 16V, 20V - 32V
Power Consumption :	15W (ON Mode), 1.5W (STANDBY Mode)
Cathode Ray Tube :	5.5" Flat Square
Horizontal Resolution :	600 lines (at center)
Ambient Temperature :	5°F - 140°F (-15°C - 60°C)
Vibration Resistance :	4.4G (10Hz - 100Hz)
Ambient Humidity :	Less than 90%
Dimensions :	6-3/16" (W) × 5-1/2" (H) × 8-1/4" (D)
(excluding Fixing Bracket)	155 (W) × 140 (H) × 209 (D) mm
Weight :	6.5 lbs. (2.95Kg)

Weight and Dimensions indicated are approximate.  
Specifications are subject to change without notice.

## STANDARD ACCESSORY

Remote Cable ..... 1pc.

## OPTIONAL ACCESSORIES

Rearview Camera GP-RV201  
Camera Cable GP-CA40 (33ft/10m)  
Camera Cable GP-CA41 (66ft/20m)



# Panasonic

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Division of Matsushita Electric Corporation of America

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