

MRC-LP01CP



**Factory Mount Mirror Monitor with
License Plate Camera (USA size)**
User Manual



ECHOMASTER



MRC-LP01CP

Factory Mount Mirror Monitor
with License Plate Camera (USA)

Introduction

Thank you for purchasing your EchoMaster automotive monitor.

Your monitor displays a clear, high resolution image of the area surrounding your vehicle, meaning your maneuvering and vehicle awareness will be greatly improved.

Please ensure you read and understand all aspects of this manual before fitting or using your EchoMaster monitor.

Box Contents

- ▶ Factory Style Rear-View Mirror with 4.3" LCD Monitor
- ▶ Reverse Camera
- ▶ Wiring Harness
- ▶ OEM Style Wire Harness Cover
- ▶ 2 Camera Mounting Brackets
- ▶ 3 Mirror Adapters
- ▶ Installation / User's Guide

Key Features

Mirror

- ▶ OEM Look and Feel
- ▶ 4.3" High-Denition LCD Monitor with Auto-adjusting brightness
- ▶ OEM Wire Harness Cover
- ▶ Two (2) Video Inputs
- ▶ Anti-Glare Mirror
- ▶ Easy Installation

Camera

- ▶ 170 degree viewing angle
- ▶ IP68 Waterproof
- ▶ Low Light 0.1 LUX
- ▶ Built-in Parking Lines

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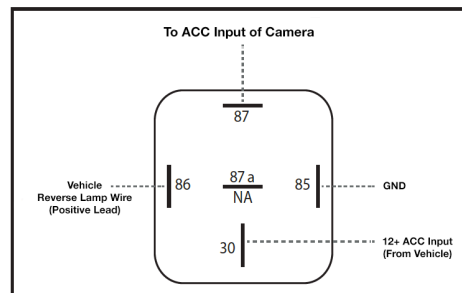
Fitting Instructions

Choose a mounting location that will not obscure the driver's view. Also please ensure that the unit is not mounted in a location that will obstruct the operation of any airbags.

1. Remove OEM mirror and replace with supplied LCD mirror.
2. Run your wiring harness into the headliner and down the vehicles A-Pillar, making sure to avoid any factory airbags. Secure your wiring with zip-ties.
3. Make all necessary wiring connections (**See wiring diagram**)

Installer notes:

This system is completely signal sensing, there is no “reverse trigger wire” in the wire harness. Some vehicles’ reverse lamp wires are now variable voltage wires, and may cause a fuzzy or distorted image or they may not power on the camera.



If you experience this, please use a relay to power your camera, as shown in the diagram.



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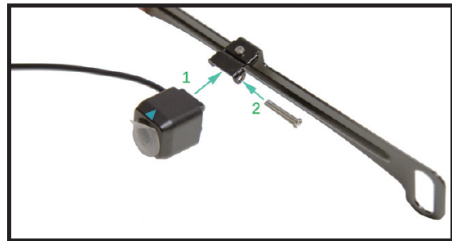
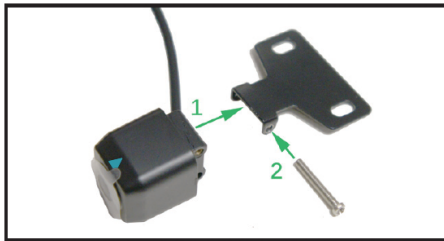
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Fitting Instructions - (continued)

Attaching the camera to bracket

NOTE:

The triangular notch on the top of the camera indicates top of the camera



Installation (Honda, Acura, Subaru, Scion)

Remove original mirror



Slide Factory mirror down, toward the bottom of the windshield



Remove the mirror.

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Adaptor Installation

Step 1

Place adaptor onto Factory mirror mount (about 1/2 way up)

Step 2

Slide adaptor up, toward the top of the windshield until it pops into place. Adaptor should line up with factory mount.



Step 3

Tighten set screw to secure adaptor

Factory Mounting Tab 'Button' stays attached to windshield. Our supplied adaptors mount to that metal tab.

Installation (Volkswagen, Audi)

Remove original mirror



Slide Factory mirror down, toward the bottom of the windshield



Remove the mirror.

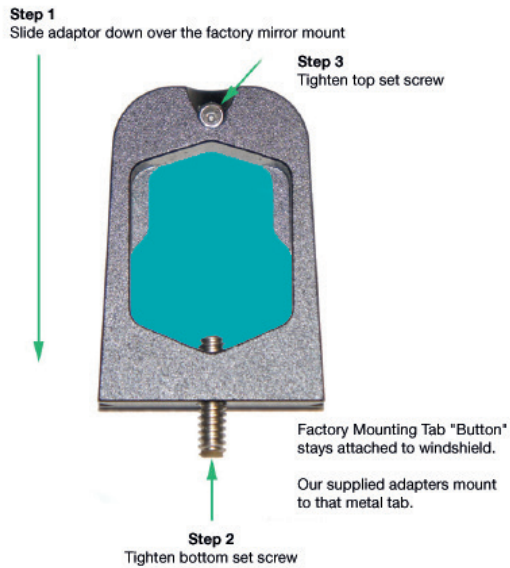


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Installation (Volkswagen, Audi)

Adaptor Installation



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Installation (Jeep, Dodge, Chrysler, RAM)

Remove original mirror



Carefully pull top of the shroud toward the sides of the vehicle, on both sides.



Carefully pull shroud down (away from windshield)



Remove the top portion of the shroud.



Grasp mirror bracket and turn counter clockwise



Rotate mirror bracket counter clockwise, then pull away from windshield



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Operating Instructions

1. While using the Video 1 Input, you can press the Power button to turn the monitor ON/OFF
2. While using the Video 2 Input (Backup Camera), you can press the Power button for 1.5 seconds to turn the monitor ON/OFF, or use a short press to adjust the image brightness.
3. When the vehicle is shifted into reverse, it will supply power to the camera, which will provide an image to the mirror. The camera image should automatically be displayed, the user does not need to press any buttons.

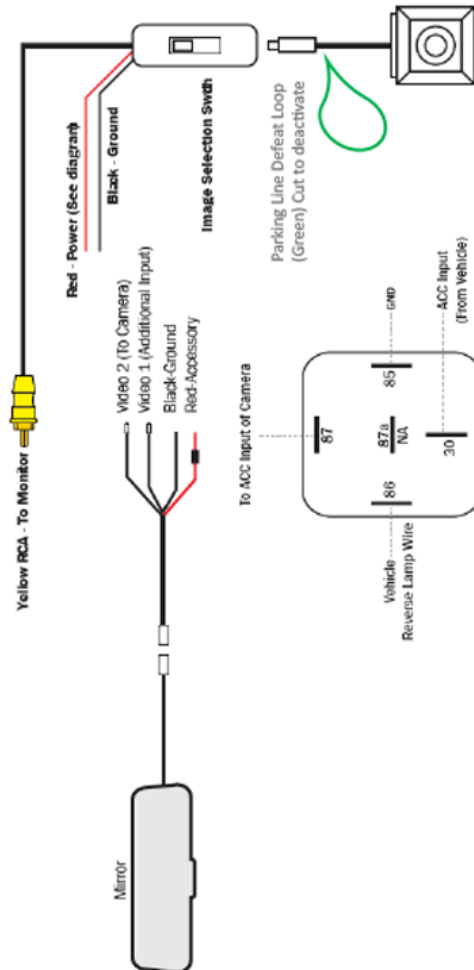


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Wiring Diagram





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Specifications

Camera	
Sensor Type	1/3" CMOS
LEDs	0
Illumination	0.1 LUX
Viewing Angle	170 degrees
Mirror Image	YES
Normal Image	YES
Water/Debris-Proof	IP68
Parking Lines	Selectable
Audio	NO
Power Supply	12V DC
Current	<50mA
Working Temperature	25°C - +65°C
Dimensions (mm)	D (41) x W (196) x H (35)
System	NTSC
TV Lines	480
Resolution	720 x 487

Installation Guide

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Mirror Monitor	
Screen Size	4.3"
Aspect Ratio	16:9
Power Supply	12VDC
Resolution	480x272
Luminance	1000
Contrast	500:1
TV Format	Auto
OSD Languages	English
Video Inputs	2
Audio Inputs	0
Triggers	0
Current Draw	200-400mA
Operating Temperature	-20C - +60C
Parking Guidelines	No
Connection Type	RCA
Dimensions (mm)	278 x 81 x 43



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