

GM Live view rear mirror Installation.



Parts purchased from www.mods4alpha.com

Overview: This how to will give you the overall steps needed to convert your normal mirror to an all OEM parts Live View rear mirror.

Installation notes:

This installation was performed on a ATS Sedan. I am not sure if any difference when performing this installation on a coupe.

Installation I would rate easy to expert level a 3. It is overall an easy mod with basic tools. Install time should not take you more than an hour and a half at most. After doing it, I could do it again in probably 45 minutes or so.

Parts needed: T-10 torx, 7mm, 8mm, 9mm, 10mm deep sockets, with extension preferably.



General Motors Rear Camera Mirror

Rear Camera Mirror is a General Motors safety technology that replaces the traditional rear-view mirror with high-resolution video streaming to a display in the rear-view mirror, thereby improving on the traditional inside rearview mirror by providing a wider, less obstructed field of view.

How It Works

The Rear Camera Mirror system is comprised of two primary components:

Camera: the rear-facing high-definition camera features a high dynamic range designed specifically to enhance rear view lane width and maximize low-light situations. The camera reduces glare and allows a crisper image in low-light situations compared to a traditional glass electrochromatic, or auto-dimming, rearview mirror. The camera is finished with a water-shedding hydrophobic coating to keep it clean to maintain visibility regardless of the driving conditions.

Display: the in-mirror 1280 by 240-pixel TFT-LCD display with 171 pixels per inch (Gen I)

Benefits

Most evident when driving, changing lanes, and checking for vehicles and traffic conditions, the benefits of the Rear Camera Mirror include:

Providing a clear view of the view behind the vehicle, with no obstructions of passengers, headrests and the vehicle's roof and rear pillars

Improves field of vision by 300 percent, or roughly four times greater than a standard rearview mirror

Gen II specs

Frameless Design

Increased brightness adjustments, from 3 to 5

Zoom function

Tilt/position adjustment (of camera)

Increase in the screen and camera resolutions from 1280×240 pixels (Gen 1) to 1440×300 pixels (Gen 2)

Intellectual Property

Researchers and engineers working on the GM Rear Camera Mirror have been awarded 10 patents – one for the streaming video mirror and nine for video processing. The patents cover innovations in the wide field of view camera image calibration, de-warping, glare reduction and camera hardware design.

Start with the Mirror itself. To remove the mirror you will need to take the plastic box looking cover off from behind the mirror itself. This separates at the middle. You should be able to squeeze both sides together and it should come right down.



You will see little tabs that hold it onto the glass itself.

Should look like this off.



Now take a T-10 torx bit and remove the screw that holds the mirror in place.



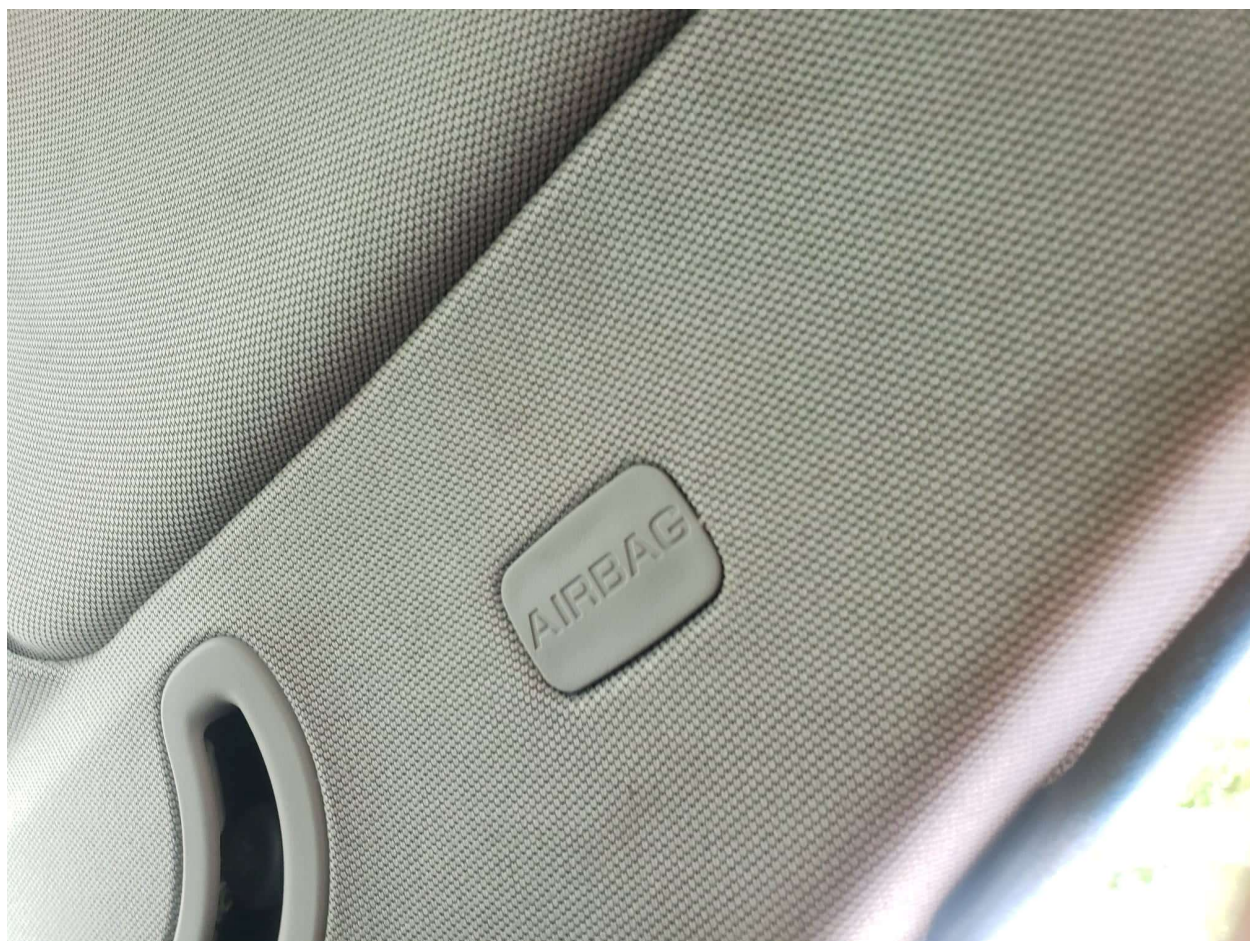
The mirror will slide out by going upwards towards the roof of the car. But before yanking on it be sure to unplug the mirror itself seen here:



Now with that out of the way you want to remove the A pillar on the passenger side, Both B pillars and C pillars as well so you can drop the headliner.

Start by removing the A pillar on the passenger side, and both B pillars. The C pillars on the sedan you will have to pry open the "airbag" tab and there will be a screw on either side behind it.







Next remove all of the “oh sheet” handles. Remove the tab on either side of the handle, then remove the screw and itll come right out.



Now you are ready to drop the headliner. Be careful as you only want to pull down enough on it to drop it as far as needed to get the job done. The sedans are held in on the very back with a small lip. You will have to pull slightly towards the back of the car and down at the same time





There will be a plug coming from either side to the antenna in the middle of the car. They will be behind foam at the connection. Be careful not to destroy the foam disconnecting them as you will reuse it for installation. There is one 10 mm bolt holding the antenna down to the roof of the car. Unscrew this and the bracket and then the antenna will pull out from the top. You are now done with disassembly.





Your new antenna will have the same two connections as the stock antenna, and one extra for video feed. Make sure your roof is clean and clear of any debris and dirt. You want a nice pad for the new antenna to sit and seal. Place the antenna on the roof of the car, and make sure all three connectors are inserted into the hole in the roof. Connect the original two cables you just disconnected.

Connect your third connector to the cable supplied in the kit from www.mods4alpha.com. Put the bracket against the underside of the antenna and reinsert and tighten your 10mm bolt. Make sure it is snug as this will be your barrier between the water staying outside of your car and coming in.

Go backwards through your disassembly and put the headliner back up making sure to clip the rear back in, and work from the back of the car to the front. Install and secure the bolts and handles for the C-pillars. Have the slack from your cable you will be running to the front of the car hanging off the passenger side. As you then move to the B-pillar reinstallation and then A-pillar, make sure this cable is not pinched, but tucked just inside the lip of the headliner. Run this across the front and into what will be behind the black box (first thing you removed) behind the mirror.

Install your new mirror by plugging in the original cable you unplugged, plug in the cable you just ran, and reinstall the T-10 torx bit. Put the black box back in by placing the top part first and sliding the bottom together with it.

You are now done! Reconnect your battery and enjoy your new mirror and its features!