

REAR VIEW CAMERA - 2016-2018 MIATAS M29-95020



Thank you for purchasing our ND1 rear view camera. It has a full factory-style integration without the weird little bumper pimple that the 2019 cars got. Shift into reverse, and the screen on your dash changes to the camera view including side traffic alerts. Head forward and you're back to normal. If you have any questions during installation or suggestions for improvement to the product or the instructions - please don't hesitate to call or email.

WARNING: Not everyone can perform every installation. It is critical that you be honest with yourself in regards to your ability. We're more than happy to help, but there are only so many things we can do from the other end of a phone / computer. If in doubt, discuss the install with us before you dive in. Improper installation could cause injury and / or death!

Required tools:

- Drill
- Long needle nose pliers
- 10mm socket, ratchet, extension
- Small flat blade screw driver
- Trim panel removal tools
- Electrical tape
- Measuring tape or ruler
- Masking tape and Sharpie
- Flashlight
- Safety glasses
- Large drill bit (around 1/2" recommended)

1. Begin by opening the trunk lid, then disconnect the battery. Do not shut the trunk after disconnecting the battery, as it needs power to be reopened.
2. Remove the passenger side door sill (1) and pull off the weatherstripping (2) from the pinch weld up to where it meets the A-pillar trim. On the kick panel, locate and remove the plastic rivet, which is removed by prying the center of the rivet up around 1/4" and then pulling the entire rivet from the panel. Now remove the kick panel by pulling it toward the rear of the car until the last clip releases.
3. Pull down the A-pillar trim (3), pulling down perpendicular to the A-pillar, in the direction of the center console. Be careful not to pull too hard as there is wiring attached. At this point, either unplug the tweeter and remove the A-pillar trim, or lay the A-pillar trim down on the dash being careful not to scratch anything. Finish removing the weatherstripping from the car.
4. Using a 10mm socket, remove the M6 bolt at the base of the dashboard (4). Pulling toward the rear of the car, remove the lower portion of the dash, starting at the door jamb and working your way toward the center of the car until the entire panel is free.



- Unclip the top of the panel in between the steering column and the start stop button (5). It only needs to move back enough to allow removal of the next trim panel. Remove the trim above the HVAC controls by pulling toward the rear of the car (6). It only needs to be pulled back enough to allow the vent above it to be removed. Pull back on the vent toward the back of the car and unplug the electrical connector so the vent can be fully removed (7).



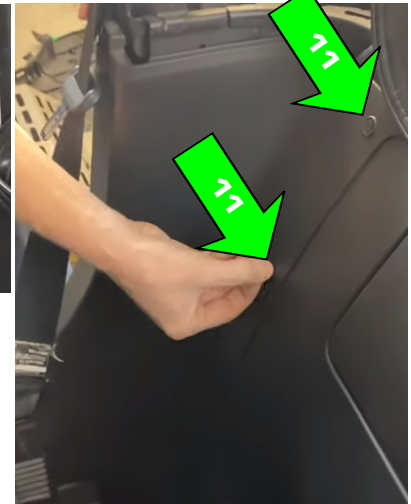
- Pull straight back on the gauge hood which includes the vents on either side. Once loosened, unplug the electrical connector on the right hand side (8) and then work the hood around the column and set it aside.



- Using a 10mm socket, remove the M6 bolt below the screen (9). The screen can now be pulled toward the rear of the car. Unplug the electrical connectors to be able to fully remove the screen. Set it aside for now.



8. Still working on the passenger side, unclip the seatbelt from the guide on the seat and slide the seat all the way forward. Now remove the top trim piece by first removing the plastic rivet (10) (same method as before) from the front face, and then popping the clips that are near the seat belt slot. The panel directly below is next. Start by removing the two plastic rivets (11). Next pull the panel toward the front of the car and set it aside.



9. Moving on to the trunk, remove the rear and passenger side panels. Remove the rear panel first as there is a rivet for the passenger side panel hidden underneath. The rear panel is held in with four plastic rivets



(12). After the rivets are removed, pull up on the panel to unhook it from the other panels. Disconnect the electrical connector for the trunk light before fully removing the rear panel. Remove the three plastic rivets (13) that hold in the passenger side panel and remove it.



10. Moving back up to the cab, it is time to install the jumper harness. Take the large female connector and plug it in to the matching screen connector in the dash. Take the long length of wire and route it through the opening the dash (14) toward the passenger side door jamb. Be careful as there are unfinished metal edges in the dash that could cut you or the wires. Ensure the wires are routed so they do not droop down below the dash.

11. Continue routing the harness down behind where the kick panel installs and along the factory harness at the base of the door (15). When you get to the rear of the door, the harness needs to be fed back through to the trunk compartment (16). This can be done by simply pushing the harness through until it makes it. If you are having trouble, you could use an unfolded metal coat hanger. Tape the harness to the hanger and feed it through. Since the hanger is rigid, you have more control over avoiding obstacles.



12. Remove the license plate lenses by depressing the exposed tab on the side of the lens until it is able to drop down. The socket takes a quarter turn to remove from the lens. Apply masking tape to the area between the two license plate lights and mark your side-to-side center line in between the two openings. Find the foam seal that was included with the kit. Without removing the adhesive backing, orient the foam seal with the long end toward the rear of the car and use the center of the hole as a template to mark your fore-aft centerline. The fore-aft position is somewhat arbitrary, but closer to center is ideal.

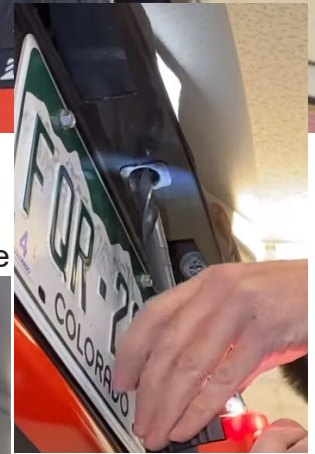


13. Using the supplied hole saw, drill a hole through the bumper cover. The factory hard foam bumper beneath needs to be cleared to allow room for the body of the camera. Use the same hole saw bit to clear away enough of the bumper foam for the camera to fit. Since the hole saw only cuts the sides, you will have to break off the cut foam with a screwdriver.



14. Use a large drill bit to create a channel through the foam for the wiring to pass through. Be careful not to drill into the bumper cover. Angle the drill bit toward the front and driver side of the car to get the harness where it needs to go.

15. Remove the masking tape from the bumper. Using rubbing alcohol, clean the bumper cover where the camera will mount. Apply the foam gasket sticker to the bumper cover with the long end pointed toward the rear of the car.

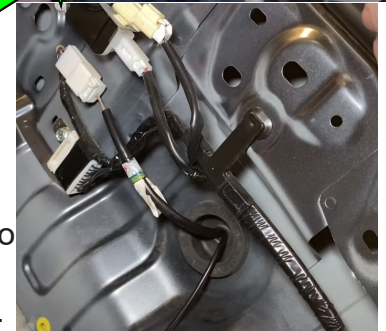


16. Use some masking tape to secure the connector nut on the camera's harness. Otherwise it will work its way down the harness.

17. In the trunk, pop out the rubber grommet (17). Feed the harness of the camera up through the drilled hole until it can be pulled through the hole created up by removing the grommet. Pull the cable through until the camera is almost seated into place. Remove the sticker backing from the foam gasket and then fully seat the camera into place, making sure it is pointed straight back.



18. On the grommet in the trunk, remove the electrical tape holding the grommet to the wires. Feed in the camera's harness through the grommet and re-tape the grommet to the wires. Pushing the camera harness through the grommet is kind of a pain. An option to make the job easier is to poke a new hole into the grommet for the camera harness to pass through. Reinstall the grommet into place.



19. Connect the camera harness to the harness routed back from the screen. The connector is keyed so it can only install one way. Loop up and secure the excess wire.
20. Up front, reinstall the all of the screens connectors and set the screen into place. The battery being disconnected is required to reset the vehicle ECU which is required for the rear view camera to operate. If you did not disconnect your battery earlier, do so now.
21. Reconnect your battery and key on. Place the shifter into reverse and make sure the camera operates.
22. The reassembly process is the opposite of removal. Be sure, as you are reinstalling pieces, that any of the wires added to the car do not get cut or pinched. Also pay attention as you are installing the dash pieces that any electrical connectors disconnected during the installation get plugged back in.

The vertical reference lines displayed on the screen are narrower than the car and not suitable for determining clearance on the sides of the car. The lines are there to indicate proximity to obstacles at the rear of the car only.