

Active Shutter Eliminator Kit Installation Instructions

by Primitive Racing

Hardware and parts:

- 1 – ASE (Active Shutter Eliminator) Assembly
- 3 – #8 x 1.25” Phillips Machine Screws
- 3 – #8 Nyloc Nuts
- 3 – Nylon Spacers (1/2” long)
- 3 – Zip Ties

Tools Needed:

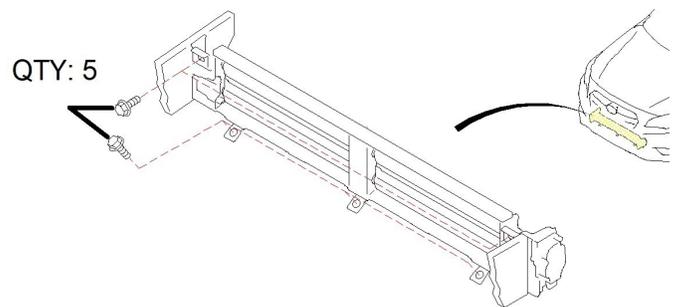
- 12mm socket
- 11/32 Socket
- T-20 Torx Bit
- Ratchet and/or Driver for sockets and Torx Bit
- Flat blade screwdriver
- #2 Phillips Screwdriver
- Needle Nose Pliers

Step 1. Remove front bumper with grill still attached. Use factory service manual for details.

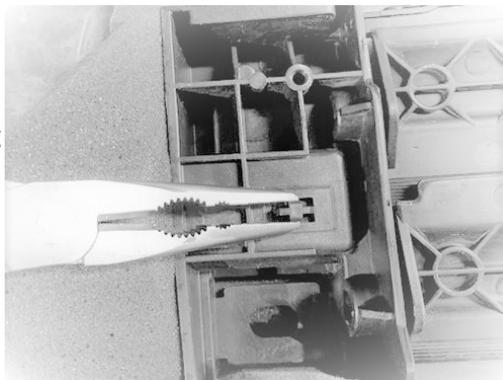
****REMEMBER WHERE ALL HARDWARE IS REMOVED FROM, TO EASE RE-INSTALLATION****

Four push plugs along the top of the core support just behind the grill, then various clips along the front wheel well and the front lip. Along the edge of the bumper cover/fender and underneath the headlights the bumper cover is attached using a fastener-less clip-in system (friction fit) and will detach with firm pulling, exercise caution to avoid distorting the fender or bumper cover. Again, use factory service manual for details.

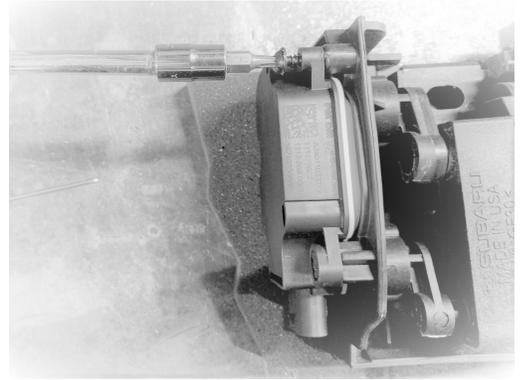
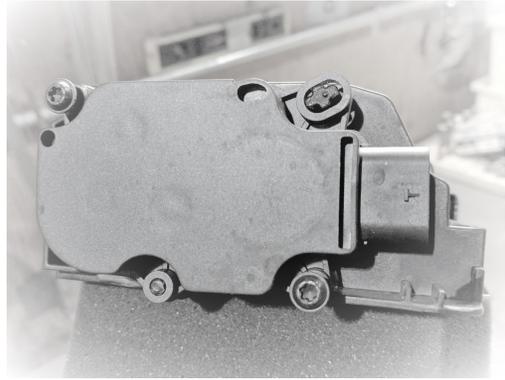
Step 2. With the bumper cover removed use your 12mm socket and ratchet to remove the 5 bolts (2-upper and 3-lower) that attach the Active Shutter Assembly to the car, pull the assembly away from the front of the car and disconnect the two electrical connectors that go to the Active Shutters (passenger side is a temperature sensor and the drivers side is the active shutter motor that our kit goes onto) then remove the Active Shutter Assembly from the car.



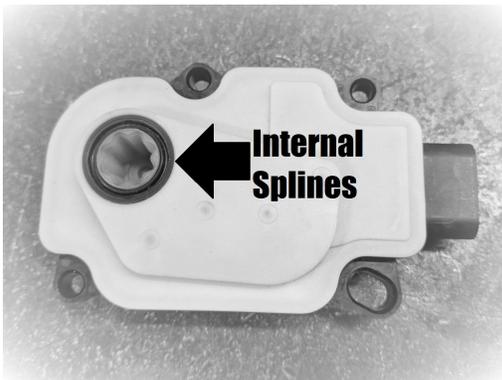
Step 3. Remove the temperature sensor from the Passenger side of the Active Shutter Assembly by pinching the upper and lower sides of the clip built into the sensor from the backside of the assembly. This sensor needs to be re-connected and zip-tied somewhere inside the lower grille area but not touching or too close to the radiator.



Step 4. Re-remove the two T-20 torx head screws from the drivers side end of the Active Shutter assembly and pull firmly to separate it from the assembly.



Step 5. Install the ASE assembly onto the Active Shutter Motor, if your Active Shutter assembly has previously been removed or damaged you may need to use the ASE Assembly to rotate it slightly back to the correct start position, the motor puts up some resistance but with enough force it can be moved. Looking at the motor from the side with the internal splines, the “arm” on the ASE needs to be all the way counter clockwise in the radial slot, see photos below.



Step 6. Now that the motor is in the correct position, place a nylon spacer in between the motor and the ASE at each screw position and install the #8 screws through all three components and secure with the Nyloc nuts, use the #2 Phillips Screwdriver and the 11/32” socket to tighten everything, the torque spec for bolts this small is ~20 Inch/lbs, that's *****INCH POUNDS***** not ft/lbs, over tightening may break the mounting holes on the motor.

Step 7. Re-connect the motor to the wiring harness of the car and find a location to zip-tie it so it's safe from debris and so the arm can rotate and won't get caught on anything.

Step 8. Re-install the stock front Bumper cover assembly, or your custom built off-road front bumper with 3-foot stinger ;).