

TKOSROD1290K 5TH GEN VIPER SEAT LOWERING KIT WITH RACING BELT MOUNT AND 6 POINT BELT

(Not recommended for electric adjust seats)

INSTALLATION INSTRUCTIONS
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(Not recommended for electric adjust seats. If you have electric adjust seats you will need to remove the electric motor assembly to install this part.)

Installing this kit will lower your factory seat approximately 2". You will no longer have quick adjustment for forward and back of the driver's seat. Adjustment of the seat will now be custom fit to a specific driver. You will also no longer have use of the factory seat belts. You will only have use of racing harnesses.

Prior to any work being done, it is recommended to use collision tape or some other protective cover in the area where the work will be performed to minimize the possibility of damage. Vipers are very compact vehicles, the driver's compartment especially. Working in the driver's compartment area requires patience, special skills and the right tools.

STEP 1. Removing the factory seat from the car: Slide the seat forward as far as possible and adjust the seatback forward as far as possible. You will now have access to the electrical plug. Disconnect the plug, then remove the aft nuts on the seat track (if you have the factory racing harnesses, the belt mount will be in place, remove this. No need to remove the belts from the mount until the seat is out). Slide the seat back as far as possible and remove the front seat track mounting bolts.

STEP 2. Remove the seat from the adjustable seat track. You will need the seat in the up position to gain access to the six nuts that mount the seat to the seat track. To adjust the seat up, use the lower lever on the outboard side of seat. You can now remove the seat belt buckle and the seat position memory sensor (the wire harness on the bottom of the seat attaches to both the seat memory position sensor and the seat belt buckle). With the adjustable seat track removed, you can now remove the seat mount stretcher brace (the part on the bottom of the seat is riveted in with (4) rivets). Drill out the rivets with a 3/16 drill.

STEP 3. Remove the seat belt buckle from the side of the seat using a T50 male torx. Do not discard the buckle, as it will be used later.

STEP 4. If using a new seat mount in a car with carpet, you must install the seat mount spacers on the seat base mount front mounting holes (where the bolts are used). Seat mount spacers are installed with a M6 flat heads and provide clearance for the carpet. For the rear mounting of the new seat mount, you must remove the white sound deadening that is under the carpet, as well as the sound deadening around the factory retractable seat belt area. **YOU DO NOT HAVE TO REMOVE THE CARPET COMPLETELY TO DO THIS.** Simply pull the carpet up, reach under and pull out the white sound deadening. The sound deadening is glued in and should pull away from the underside of the carpet. Removing the sound deadening allows for better clearance when installing the lap belt mounting.

STEP 5. At this time, you can install the shoulder belt harness. Behind the driver and passenger seat you will see a plastic cover on the back firewall approximately at the driver or passenger shoulder height. Remove this cover and you will see either two eyelets or metal eyes bolted down to the rear firewall upper crossmember. Remove the eyelets and/or the metal eyes, you will not need these for the installation of the shoulder harnesses. Now, install the (red) 2-hole ¼" thick metal plate that was in your installation kit. The (red) 2-hole ¼" thick metal plate is installed first and spaces off the firewall crossmember. The (red) 2-hole ¼" thick metal plate is installed so that the shoulder harnesses don't bind up and cause severe wear. Use the 7/16 bolts included in your kit with Loctite blue 242 to install the shoulder harnesses.

STEP 6. Install the seat base mount in the vehicle first without the seat. Then, install the front seat base mounting bolts. The seat base mount is equipped with (2) extra mounting holes that will require (2) holes to be drilled. The (2) holes are located at the rear of the seat base mount. With the seat base mount installed in the vehicle and the front mounting bolts tight, mark the location of these holes (it will be necessary to have access to the underbelly of the car to correctly install). (ACR model Vipers, make sure to remove the front bolts on the diffuser belly pan and pull away from the belly of the vehicle prior to drilling the mounting holes. ACR models require some clearance on the diffuser belly pan so that the secondary mounting bolts and washers can be installed).

STEP 7. Install the M8 8.8 hex head bolts into the seat mount first. Then, install the bolts in the middle of the threaded adjustment hole range. The M8 bolts thread in from the bottom side so you have a stud to drop the seat onto.

STEP 8. Install the driver's seat in the vehicle and check the fit with the driver sitting in the seat. It is not necessary to install the seat completely in vehicle at this time, you are simply trying to determine the correct seat position for the driver. It is recommended to install the front seat mount base mounting bolts only at this time. Remove and reposition the seat onto the seat mount as necessary to fit the driver.

STEP 9. Once the correct seat position has been determined, you can now correctly install and fit the racing harnesses. **THIS CAN BE DONE OUTSIDE OF THE VEHICLE FOR AN EASIER BELT ADJUSTMENT.** Install the racing lap belt harness into the seat and onto the racing harness mounting bracket provided. With the lap belts and the sub straps with cam lock installed onto the racing harness mounting bracket, place the racing harness mounting bracket in position on the seat base mount (you must remove the seat mount from the vehicle if you have not done so). Use the aft slotted holes to align the racing harness mounting bracket correctly onto the seat base mount. Now, have the driver sit in the seat and adjust the harnesses as necessary to fit the driver properly. Racing harnesses can be adjusted by pulling up on the lap belt straps to tighten. The sub strap, once in the car, is not easily adjustable so make sure you have a correct fit of the sub strap. **MAKE SURE TO FOLLOW CORRECT THE RACING HARNESS INSTALLATION PROCEDURE.** Shoulder belts are easier to adjust and can be adjusted after the seat has been completely installed. You only need to fit the lap and sub straps at this time.

STEP 10. Now, install the seat base mount back into car with the M8 bolts that mount the seat to the seat base mount. Ensure that they are in the correct position for the driver and install the lap belt mounting bracket into the vehicle. Install the front seat mount bolts first. **DO NOT TIGHTEN THE BOLTS, NUTS, OR STUD PLATES UNTIL ALL ARE INSTALLED AND STARTED.** Once all of the bolts, nuts and stud plates are in place and you have started all of the nuts and bolts, tighten all of them to the correct torque specification. Now, you can install the factory seat or the TKO racing seat into the vehicle.

STEP 11. To install the factory seat into the vehicle, simply lift into the vehicle and make sure it drops onto the studs (M8 bolts threaded through seat the mount base). Use the M8 flange nuts provided to fasten the factory seat to the seat mount base. Make sure the seatback is forward when installing the nuts (**THE INBOARD SIDE M8 NUT ON THE FACTORY SEAT MOUNT IS DIFFICULT TO REACH FROM THE OUTBOARD SIDE. IT IS MUCH EASIER TO INSTALL THE NUT FROM THE INBOARD SIDE BY REACHING DOWN BETWEEN THE TRANSMISSION TUNNEL AND THE SEAT**).

STEP 12. Use the TKO seatbelt simulator (included in the hardware kit) and plug it into the factory original seat belt buckle, then plug the factory buckle back into the wire harness. Now, plug the seat memory sensor back into the wire harness. Plug the harness back into the main factory wire harness inside of the car. You can tuck the factory buckle and the seat memory sensor wire harness back behind the seat in a secure area that won't interfere with the use of the harnesses.

ALTERNATIVE METHOD OF INSTALLING THE SEAT LOWERING KIT AND RACING HARNESSSES INTO THE CAR

Ensure that the secondary racing M8 harness mount bolt holes have been drilled before proceeding with this method of installation.

STEP 1. With the seat mounted to the seat base and the seatback reclined forward, install the seat into vehicle but do not allow the seat mount slotted holes to drop onto the rear studs protruding out of the floor. Make sure the seat base mount is just forward of the studs. This will allow you more space to work behind the seat.

STEP 2. Now, with the seat forward, install the racing harness bracket with the lap belts installed onto the harness bracket. Place the harness bracket onto the seat base and in the approximate position (use the slotted holes to line up).

STEP 3. Now, lift the seat up slightly and install the rear slotted seat mount holes onto the studs protruding from the floor of the vehicle. Make sure the racing harness mount also drops into position onto the studs, sandwiching the seat base mount. Continue with the installation procedures.