

Application: 1997–2004

INSTRUCTION SHEET

Part Number

618-542

Part Includes

1 - Component

Headlight Motor Gear Installation



Tools Needed











Search: Lighting, Exterior & Interior

Note: Removal of Headlight motor units is similar for all 1997-04 Corvettes. Gear installation and rebuild varies. See separate gear installation instructions below for your year.

Please read all instructions before beginning work. It's helpful to have a factory service manual handy. Assemble the necessary tools first, so you don't have to stop and search for them during installation.

Tech Tip: If you have not performed this operation before, we suggest working on one unit at a time. That way you will have the other side to use as a guide.

STEP 1.

Open the hood and turn on your headlights to see if they still turn over on their own. If the headlights do not turn over, the headlight motors have a manual lift knob on the side for use in case the gears are non-functional.

For safety, disconnect your battery's negative cable with the 8mm wrench.

STEP 3.

Unplug the headlight harness at the headlights.

Next, with Phillips screwdriver remove the 3 headlight bezel screws. Remove the bezel and set aside.

STEP 5.

With 13mm wrench, remove the headlight assembly attachment bolts.

Remove the 10mm nuts from the threaded studs.

STEP 7.

The headlight should be free to pull forward and up to remove from the vehicle.





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2900 North Third Street, Effingham, IL 62401 800.500.1500 · Worldwide: 217.540.4200 · FAX: 217.540.4800 www.mamotorworks.com · generalmail@mamotorworks.com OMid America Motorworks, Inc. All rights reserved.

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Description (cont.)

STEP 8.

The headlight motor may now be disconnected. Unplug the two connectors from the motor to the headlight.

STEP 9.

For ease in reassembly, mark the position of the linkage, so you can reinstall in the same position with the white stop cushions.

STEP 10.

Remove the motor drive shaft from the linkage. This is held in place by a 10mm nut.

STEP 11.

Now, you may remove the headlight motor from the assembly. Use a 10mm wrench to remove the attaching nuts. If they will not come off, hold the bolt heads with another wrench to break them loose.

STEP 12.

Set the frame aside.

STEP 13.

Move to a clean area where you can work on the motor. Note or mark the position of the drive shaft, as this will help you in the assembly procedure.

1997-99 Headlight Motor Gear Installation Procedure

(2000-04 owners, skip these steps and see below.)

Tech Tip: Proper operation of the motor depends on correct assembly of the motor shims and washers. Be sure to note or lay them out in the order in which they are to be reinstalled.

STEP 1.

Gain access to the gears through the motor's side cover. Early motors have the access plate held in place by screws. Remove these screws and plate.

STEP 2.

The gear is under this plate. When it fails, there will be fragments in the housing. Make sure that you clean these out to insure future motor operation and service life.

STEP 3.

Disassemble by withdrawing the metal gear and shaft. This is positioned by a number of washers and shims. These must be re-installed in the same position for proper functioning. Use steel wool to polish any roughness on shaft for smooth operation.

STEP 4.

Remove damaged plastic gear.

STEP 5.

Complete clean-up of broken gear in casing.

STEP 6.

Now you are ready to install the new gear and reassemble the motor unit. All moving parts require lubrication with supplied silicone grease. Lube gears, and gearshaft. Install supplied black bumper into your new gear.

STEP 7

Reinstall the gearshaft, new gear & all shims and washers in proper order.

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Description (cont.)

STEP 8.

Using new gasket provided, replace the access cover plate and secure with the three screws.

STEP 9.

Repeat procedure with second motor.

2000-04 Headlight Motor Gear Installation Procedure

Tech Tips: Proper operation of the motor depends on correct assembly of the motor shims and washers. Be sure to note or lay them out in the order in which they are to be reinstalled.

These motors have access plates that are glued in place. Be sure that you do not get grease on the glue areas, or the glue will not hold when you reinstall.

STEP 1.

These access cover plates must be carefully pried loose with a thin blade screwdriver. Tap the screwdriver at the edge of the cover to break it loose. Carefully work the screwdriver around the cover until all of the glue breaks loose.

STEP 2.

The gear is under this plate. When it fails, there will be fragments in the housing. Make sure that you clean these out to insure future motor operation and service life. If you think you might get grease on the area to be glued, you may cover it with masking tape to keep it clean. The same applies to the cover plate.

STEP 3.

Disassemble by withdrawing the metal gear and shaft. This is positioned by a number of washers and shims. These must be reinstalled in the same position for proper functioning. Use steel wool to polish any roughness on shaft for smooth operation.

STEP 4.

Remove damaged plastic gear. Save the black bumper to reuse with your new gear.

STEP 5.

Complete clean-up of broken gear in casing.

STEP 6.

Now you are ready to install the new gear and reassemble the motor unit. All moving parts require lubrication with supplied silicone grease. Lube gears, and gearshaft. Install supplied black bumper into your new gear.

STEP 7.

Reinstall the gearshaft, new gear & all shims and washers in proper order.

STEP 8.

Follow the instructions for the supplied adhesive and reglue the access cover plate to the motor housing. Use plenty of adhesive to insure a water-tight seal. It's best to let it cure overnight to give it a chance to fully harden.

STEP 9.

Repeat procedure with second motor.

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Description (cont.)

Motor To Headlight And Reinstallation Procedure – 1997–04

STEP 1.

Reinstall the 3 – 10mm nuts and bolts that hold the motor to the headlight frame assembly. Reconnect the motor harness to headlight connections.

STEP 2.

Next, the motor is connected to the fully extended headlight linkage assembly with the 10mm nut. You will need to turn the motor's plastic thumbwheel to get the proper alignment. For proper operation, the linkage should be just short of the white bumper.

STEP 3.

Slide the frame back into place and reinstall the 3 – 10mm nuts to the studs.

STEP 4.

Reinstall the 3 – 13mm bolts that hold the headlight frame in place.

STEP 5.

Reinstall the bezel/trim with the 3 screws.

STEP 6.

Reconnect the gray headlight harnesses.

STEP 7.

Reconnect the battery negative cable.

STEP 8.

Test headlight operation.