

# Wiper Motor: Service and Repair

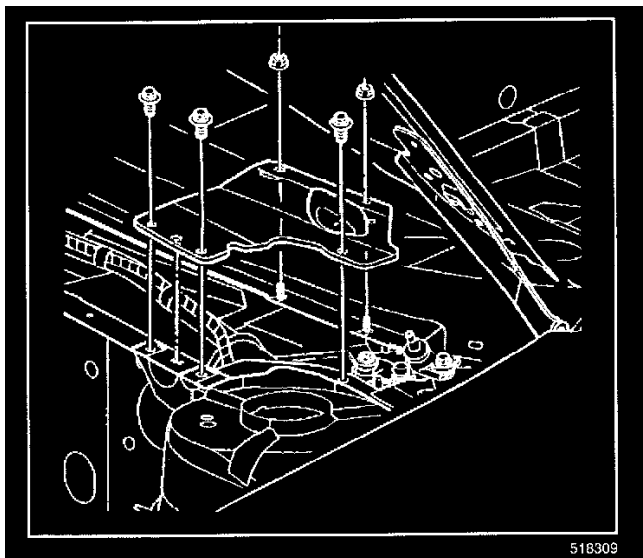
## WIPER MOTOR REPLACEMENT

### TOOLS REQUIRED

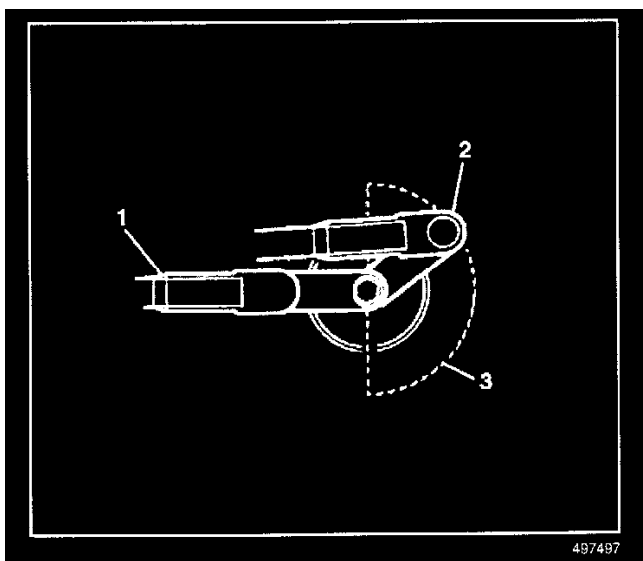
J 39232 Wiper Transmission Separator

J 39529 Wiper Transmission Installer

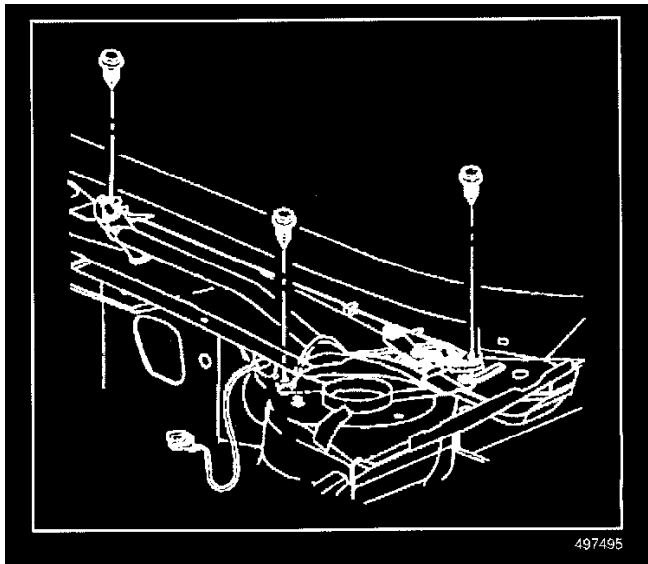
### REMOVAL PROCEDURE



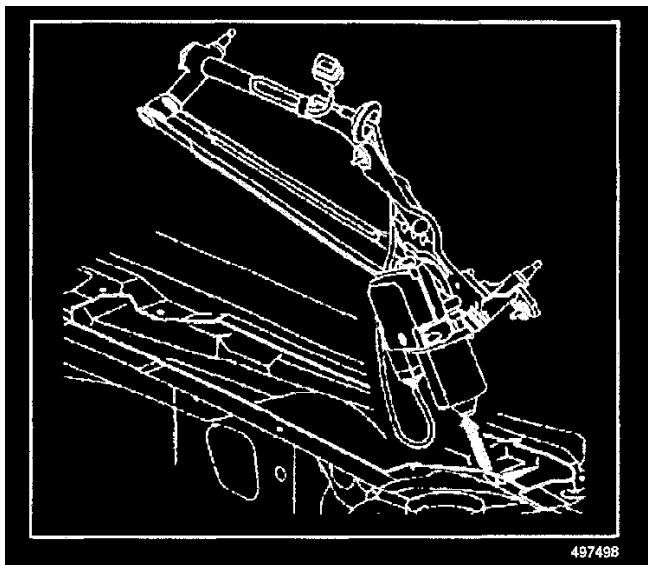
1. Remove the wiper arms.
2. Remove the air inlet grille panel.
3. Remove the three bolts and two nuts retaining the windshield frame reinforcement.
4. Remove the windshield frame reinforcement.



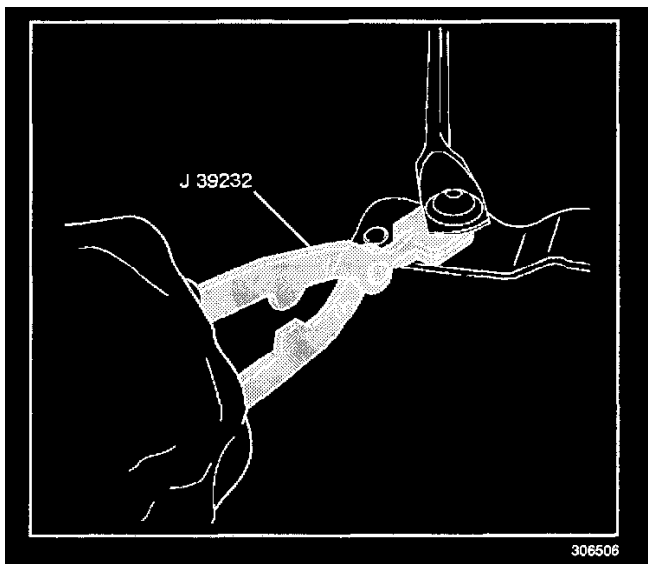
5. Pull or push on the wiper transmission linkage to rotate the wiper motor crank arm (2) from the park position (1) to the area opposite the park position (3).



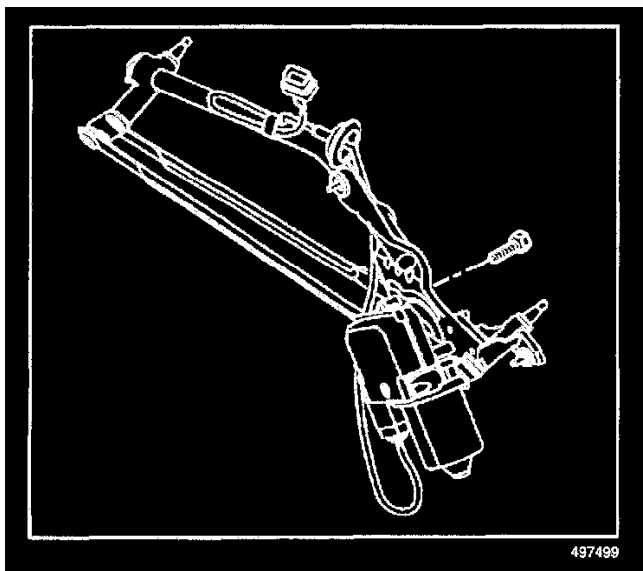
6. Remove the harness grommet from the hole in the plenum.
7. Disconnect the wiper motor harness connector.
8. Push the harness and grommet through the hole in the plenum.
9. Remove the three screws retaining the wiper system drive module.



10. Remove the wiper system drive module from the vehicle.



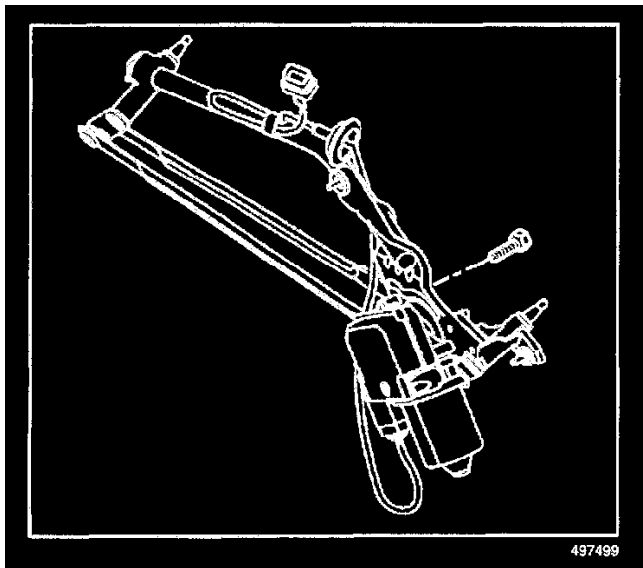
11. Remove the drive link from the wiper motor crank arm with the J 39232.



12. Remove the screws retaining the wiper motor.
13. Remove the wiper motor from the wiper drive system module.

#### INSTALLATION PROCEDURE

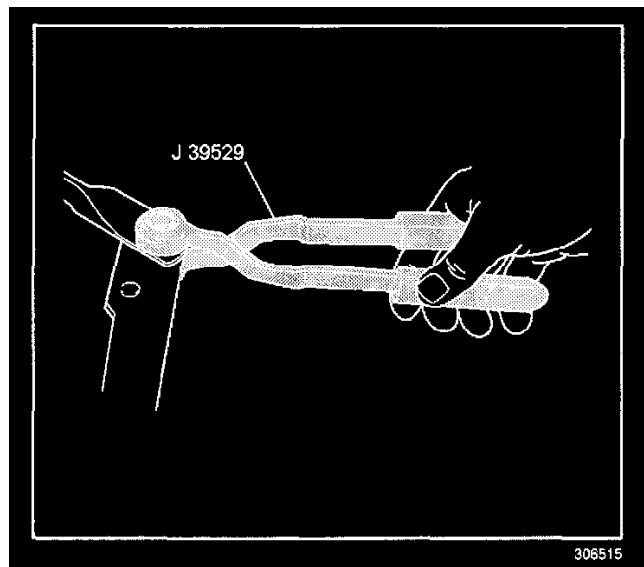
**NOTE:** Refer to Fastener Notice in Service Precautions.



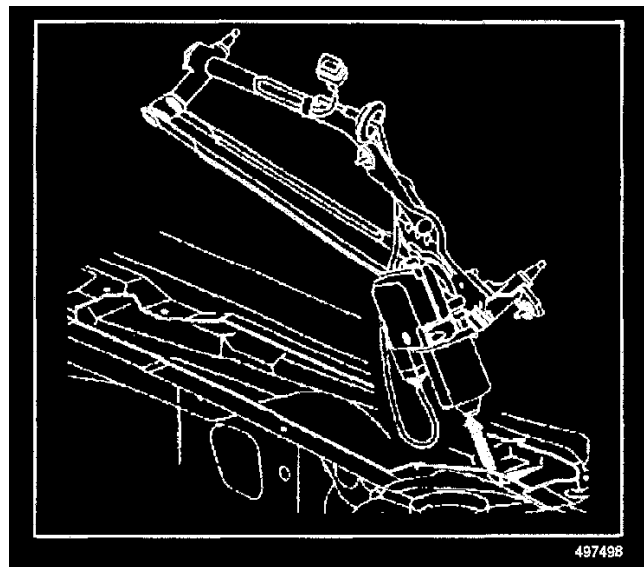
1. Install the wiper motor onto the wiper drive system module with the screws.

#### **Tighten**

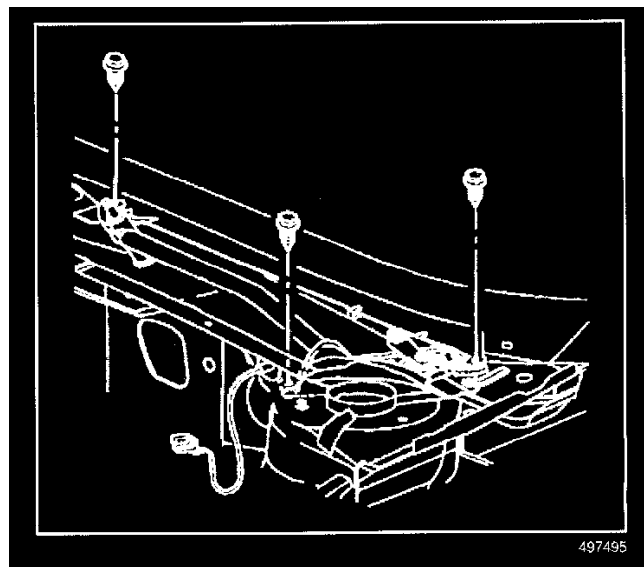
Tighten the screws to **8 N.m (71 lb in)**.



2. Install the drive link onto the wiper motor crank arm with the J 39529.



3. Lower the wiper module into the upper plenum with the nose of the wiper motor pointing downward.
4. Rotate the wiper module so that the wiper motor nose points toward the rear of the vehicle.



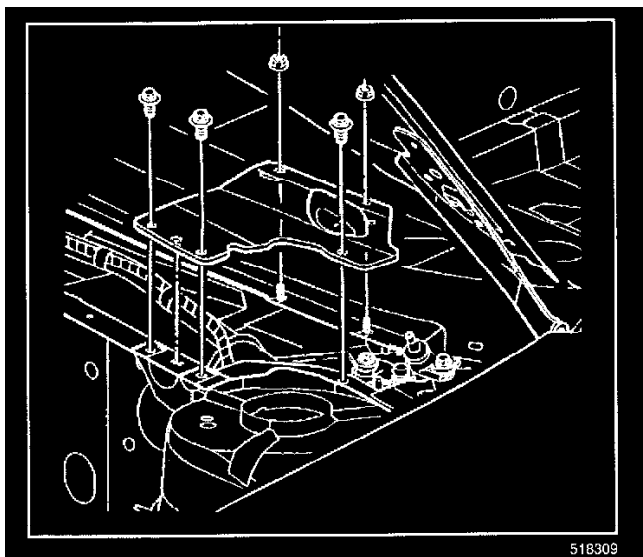
5. Install the wiper drive system module with the three screws.

**Tighten**

Tighten the three screws to **8 N.m (71 lb in)**.

6. Push the harness and grommet through the hole in the plenum.

7. Connect the wiper motor harness connector.
8. Install the harness grommet into the hole in the plenum.



9. Install the windshield frame reinforcement with the three bolts and two nuts.

**Tighten**

Tighten the three bolts and two screws to **9 N.m (80 lb in)**.

10. Install the air inlet grille panel.
11. Install the wiper arms. Refer to Wiper Arm Replacement.
12. Operate the wipers and check for proper operation.