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1993-2005 GM Wiper Motor Crank Arm Calibration

Application:

GM Front Wiper Motors with hidden park, 1995 to 2005 on 40-1010, 1012, 1019, 1025 & 85-1012, 1025.

Problem:

Wipers stop in the wrong position.

Cause:

Improper installation and adjustment of the wiper motor crank arm.

Solution:

The parked position of the motor is very important. As shipped, the wiper motor is in the correct position. If the motor is run before installation, the motor must be placed in the inter-wipe position. The steps below describe how to do that and then how to install and correctly adjust the crank arm.

Removal Procedure

1. Disconnect the motor harness.
2. Remove the drive link from the wiper motor crank arm ball stud by loosening two screws or unsnapping plastic socket.
3. Remove wiper crank arm cover and seal (if applicable), save all hardware, cover and seal for reuse.
4. Loosen the wiper motor crank arm screw. While holding the crank arm, tap on the crank arm with a suitable tool until the arm loosens from the motor.
5. When the arm is loose remove the screw and crank arm from the motor shaft.
6. Remove the old motor.
7. Remove mounting bracket screws (3), remove mounting bracket.

Installation Procedure

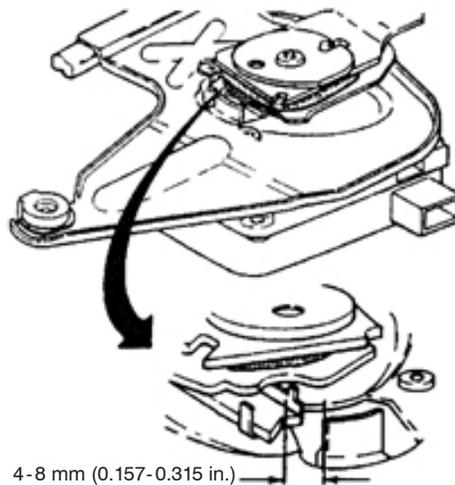
1. Install mounting bracket onto the wiper motor. Tighten 3 mounting screws to 6-8 Nm (53-70 lb. in.).
2. Connect harness to replacement motor.
3. Turn the ignition switch to the ACCY position (do not start the vehicle).
4. Turn the wiper control switch to maximum PULSE or DELAY position. The motor should run.
5. Wait for the wiper motor to cycle (run) once and then stop.
6. When the wiper motor is stopped (in the inner-wipe position), turn **ignition switch** to OFF.



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7. Gently place the crank arm assembly on the wiper motor shaft. Do not apply any downward pressure. **IMPORTANT:** The crank arm assembly must rotate freely on the “stationary” wiper motor shaft during the next step.
8. Rotate the crank arm assembly on the stationary wiper motor shaft until the depressed park actuator arm is 4-8 mm (0.157 – 0.315 in) away from the metal tab on the wiper motor bracket (see graphic below). **NOTE:** Hold motor shaft firmly in position, DO NOT allow the motor shaft to rotate during installation of the crank arm.
9. Install the wiper motor crank arm screw and tighten to 14–17 Nm. (124-150 lb. in.).
10. Check the gap between the wiper arm and tab, if the gap is not 4-8 mm (0.157-0.315 in) remove the crank arm and repeat the crank arm installation procedure.
11. When the gap is correct, install motor assembly, then install the drive link onto the crank arm.
12. Install drive link (refer to removal above). If retaining screws are used, tighten to 5 Nm. (44 lb. in.).
13. Complete installation per service manual.



Note:

This instruction is supplied for installation information and is not an authorization for repair.