

SERVICE BULLETIN

REVERSE POLARITY MOTOR REPLACEMENT FOR PART NUMBER 403.999M

⚠ WARNING: The wiper system may operate without warning even if switched off. Always disconnect the battery or wiper motor electrical connector before performing service on the wiper system.

REMOVE OLD MOTOR

1. Mark position of motor crank lever when wipers are in park position. Hold crank lever with adjustable wrench to prevent turning and remove crank lever retaining nut. Pull crank lever from motor shaft.
2. Remove three bolts holding motor to bracket (save for re-install) and remove motor.

ELECTRICAL CONNECTIONS

OPTION 1: If the electrical connector and terminals on the old motor are in usable condition, remove two screws holding connector to motor and cut wires to leave as much wire on connector as possible (See figure 1). Cut connector from replacement motor and splice wires to original connector per figure 3.

OPTION 2: If the electrical connector and terminals on the old motor are not usable, indicate which wires from the vehicle match to old motor wires by color. Identification of wires is critical for reference later. Cut connector from vehicle, where wires meet connector leaving as much wire as possible remaining on vehicle. Strip and install provided connectors to vehicle wires.

INSTALL NEW MOTOR

1. Install the new motor using the three bolts that held old motor. Recommended to use one drop of blue loctite 242 or equivalent per bolt. Start all three bolts before tightening, then torque all bolts to specification (100in-lbs = 11.5Nm).
2. Install crank lever to motor. Crank lever must be in park position as previously marked. Hold crank lever with adjustable wrench to prevent the linkage from moving out of park position while tightening nut to motor shaft. Torque nut to specification (212 in-lbs = 24Nm).
3. Connect vehicle wires to new motor connector, see Figure 3 for proper wiring connections.

NOTE: Old motor and new motor have gear housing on opposite sides. Bolt patterns are the same (Bolt Circle = 2.00", spacing 120° between bolt locations), bracket modification(s) maybe required for motor mounting.

CUT 4 WIRES FROM MOTOR
APPROXIMATE
LOCATION SHOWN

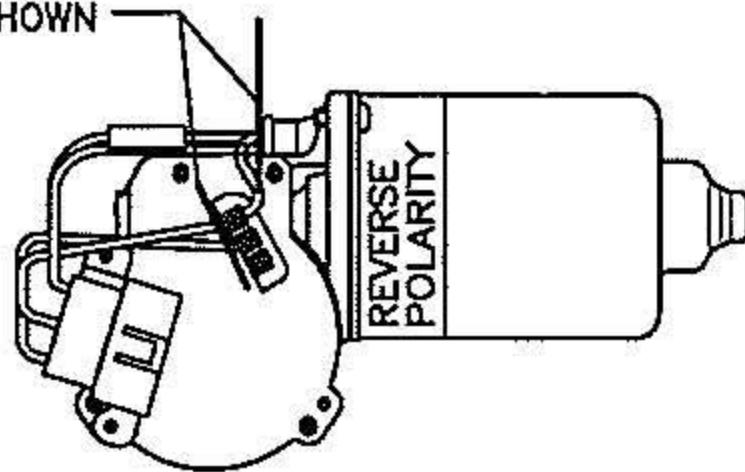


FIGURE #1

REMOVE AND DISCARD CONNECTOR HOUSING
FROM REPLACEMENT WIPER MOTOR HARNESS
IN APPROXIMATE LOCATION SHOWN

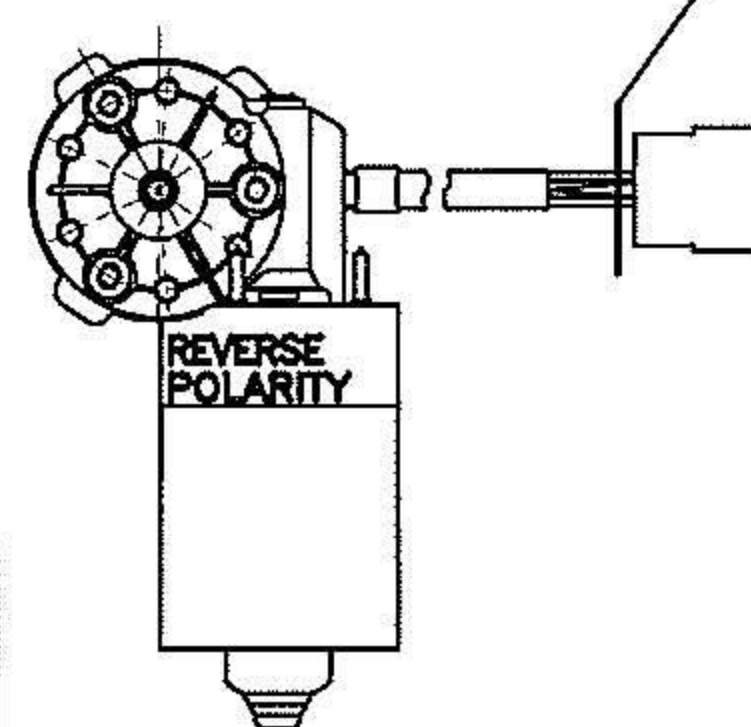


FIGURE #2

FIGURE #3

EXISTING MOTOR (403.999M)	FUNCTION	REPLACEMENT MOTOR (E-008-210)
WHITE /BLACK	BATTERY	BLACK/MOLET
BLACK	PARK	BROWN/BLACK
RED	HIGH	BLACK/RED/GRAY
GREEN	LOW	BLACK/ GRAY
CASE GROUND	GROUND	CASE GROUND