



# CARDONE ProTech

Supporting Today's Vehicle Technician

## ProTech Bulletin Summary: Motors

Before replacing any motor, the cause of original unit failure must be determined and corrected. Installing a replacement unit without correcting the problem will lead to early failure. Always refer to the vehicle service manual for specific installation procedures and specifications. The ProTech bulletins listed below cover topics that should be BEFORE, DURING or AFTER installation of the replacement unit. They assist with part selection, describe typical problems and solutions, and provide installation help and service advice.

### WIPER MOTORS

#### Before Installation

PT 40-0002 Do not run motor before installed  
PT 40-0005 40-158 park problem caused by defective pulseboard

#### During Installation

PT 40-0001 Faulty ground causes park problems  
PT 40-0008 Replacement unit solves water intrusion problem; vehicle checks

#### After Installation

PT 40-0003 Bench Test for 40-169: test motor operation off vehicle  
PT 40-0004 Bench Test for 40-158, 159, 192, 1003, 1004  
PT 40-0007 Bench Test for 40-190, 191  
PT 40-0009 Bench Test 40-267, 297, 299

### WINDOW LIFT MOTORS

#### Before Installation

PT 42-0002 Ford picture guide

#### After Installation

PT 42-0001 Bench Test for 2-wire window lift motors  
PT 42-0003 Window Lift switch test  
PT 42-0004 Weatherstripping and regulator binding cause poor performance  
PT 42-0005 Noisy operation on cable-type regulators may not be caused by motor

### TRANSFER CASE MOTORS

#### Before Installation

PT 48-0001 Protect replacement unit from water intrusion

#### After Installation

PT 48-0002 Ford units require transfer of sensor wiring and pins

CARDONE Technical Service develops ProTech bulletins that are intended to help the installer avoid common installation and service errors. The information presented is derived from our own experience and product knowledge gained from component analysis and research. Following these tips will ensure the best possible performance and service life of the replacement unit.

Please note that these bulletins are provided for your technical information only and are not authorization for repair.

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