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› Dorman 602-168 Windshield Wiper Transmission Installation and Maintenance Manual

Dorman 602-168

Dorman 602-168 Windshield Wiper Transmission Installation and Maintenance Manual

Model: 602-168

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Dorman 602-168 Windshield Wiper Transmission. This component is designed as a direct replacement for the original equipment on specific Buick Encore and Chevrolet Trax models, restoring proper windshield wiper function. It features a sturdy steel linkage, an upgrade from some factory plastic designs, engineered for enhanced durability and performance.

SAFETY INFORMATION

- Always disconnect the vehicle's battery before beginning any electrical or mechanical work to prevent accidental activation or electrical shock.
- Wear appropriate personal protective equipment, including safety glasses and gloves, during installation.
- Ensure the vehicle is parked on a level surface with the parking brake engaged.
- If you are unsure about any step of the installation process, consult a qualified automotive technician.
- Keep all tools and small parts away from children.

VEHICLE COMPATIBILITY

The Dorman 602-168 Windshield Wiper Transmission is compatible with the following vehicle models and years:

- **Buick Encore:** 2013, 2014, 2015, 2016, 2017, 2018, 2019
- **Chevrolet Trax:** 2013, 2014, 2015, 2016, 2017, 2018, 2019

To confirm exact fitment for your specific vehicle trim, it is recommended to use a vehicle fitment tool or consult your vehicle's service manual.

COMPONENTS INCLUDED

The package for Dorman 602-168 includes:

- 1 Windshield Wiper Transmission Assembly



Image 1: The Dorman 602-168 Windshield Wiper Transmission assembly, showing the main linkage arms and pivot points.

INSTALLATION INSTRUCTIONS

The following steps outline the general procedure for replacing a windshield wiper transmission. Specific steps may vary slightly depending on your vehicle model. Refer to your vehicle's service manual for detailed instructions.

1. Prepare the Vehicle:

- Park the vehicle on a level surface and engage the parking brake.
- Turn off the ignition and remove the key.
- Disconnect the negative terminal of the vehicle's battery to prevent electrical hazards.

2. Remove Wiper Arms:

- Carefully lift the wiper arms away from the windshield.
- Locate and remove the retaining nuts or caps that secure the wiper arms to the wiper pivots.
- Gently remove the wiper arms from the pivots. You may need a wiper arm puller tool if they are seized.

3. Access the Wiper Transmission:

- Remove the plastic cowl cover located at the base of the windshield. This typically involves removing several clips, screws, or fasteners.
- Once the cowl is removed, the wiper motor and transmission assembly will be visible.



Image 2: Underside view of the Dorman 602-168 Wiper Transmission, showing mounting points and linkage.

4. Disconnect the Old Transmission:

- Disconnect the electrical connector from the wiper motor.
- Remove the bolts or nuts that secure the wiper transmission assembly to the vehicle's body.
- Carefully remove the entire old wiper transmission assembly from the vehicle.

5. Install the New Dorman 602-168 Transmission:

- Position the new Dorman 602-168 wiper transmission assembly into place, ensuring all mounting points align.
- Secure the transmission with the previously removed bolts or nuts. Tighten to manufacturer specifications.
- Reconnect the electrical connector to the wiper motor.



Image 3: Close-up of a pivot point on the Dorman 602-168 Wiper Transmission, highlighting the robust steel construction.

6. Test Wiper Function:

- Before reinstalling the cowl and wiper arms, reconnect the vehicle's battery.
- Turn on the ignition and activate the wipers to ensure they operate correctly through their full range of motion without obstruction.
- Turn off the wipers and allow them to return to their park position.

7. Reinstall Components:

- Disconnect the battery again.
- Reinstall the cowl cover, ensuring all clips and fasteners are securely in place.
- Reattach the wiper arms to the pivots, ensuring they are in the correct park position on the windshield. Tighten the retaining nuts.
- Reconnect the negative battery terminal.

8. Final Check:

- Test the wipers again to confirm proper operation and sweep pattern.

OPERATING INSTRUCTIONS

The Dorman 602-168 Windshield Wiper Transmission is a mechanical component that translates the rotational motion of the wiper motor into the oscillating motion required for the wiper blades. Once correctly installed, its operation is controlled by your vehicle's standard wiper controls (stalk or dashboard switch). Ensure that the wiper blades are in good condition for optimal performance.

MAINTENANCE

The Dorman 602-168 Windshield Wiper Transmission is designed for long-term, maintenance-free operation. However, regular inspection of the entire wiper system is recommended:

- **Wiper Blades:** Replace wiper blades regularly (typically every 6-12 months) or when they show signs of streaking, chattering, or reduced effectiveness.
- **Fluid Levels:** Ensure the windshield washer fluid reservoir is adequately filled.
- **Visual Inspection:** Periodically check the wiper arms and the visible parts of the linkage for any signs of damage, corrosion, or loose connections.
- **Clear Debris:** Keep the cowl area clear of leaves, dirt, and other debris that could obstruct wiper movement or damage the system.

TROUBLESHOOTING

If you experience issues with your windshield wipers after installing the Dorman 602-168 transmission, consider the following:

- **Wipers Not Moving:**
 - Check the electrical connection to the wiper motor.
 - Verify the vehicle's wiper fuse is intact.
 - Ensure the wiper motor is functioning (if the motor hums but wipers don't move, the transmission might be disconnected from the motor shaft).
- **Wipers Moving Slowly or Unevenly:**
 - Inspect for any obstructions in the wiper path or cowl area.
 - Check for proper lubrication at pivot points (though the Dorman unit is designed to be maintenance-free, extreme conditions might warrant inspection).
 - Ensure the wiper arms are correctly attached and not loose.

- **Wipers Hitting Each Other or the Vehicle Body:**
 - This indicates incorrect positioning of the wiper arms during reinstallation. Disconnect the battery, remove the wiper arms, and reattach them in the correct park position.
 - Ensure the wiper motor was in its park position before attaching the new transmission.

If troubleshooting steps do not resolve the issue, it is recommended to consult a professional automotive technician.

SPECIFICATIONS

Feature	Detail
Brand	Dorman
Model Number	602-168
Item Weight	3.49 pounds
Product Dimensions	20.1 x 8.4 x 8.4 inches
Manufacturer Part Number	602-168
OEM Part Number	95915120
Hollander Number	621-00591
Material	Steel linkage (upgraded from some plastic OEM)

WARRANTY AND SUPPORT

For warranty information regarding the Dorman 602-168 Windshield Wiper Transmission, please refer to Dorman's official warranty policy available on their website or contact Dorman customer support directly. Dorman is committed to providing quality automotive replacement parts and support.

For further assistance or technical inquiries, please visit the official Dorman website or contact their customer service department.

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