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› General Motors 7812853 Transmission Control Lever Spring Instruction Manual

General Motors 07812853

General Motors 7812853 Transmission Control Lever Spring Instruction Manual

Model: 07812853 | Brand: General Motors

1. INTRODUCTION

This instruction manual provides essential information for the proper installation, function, and maintenance of the General Motors 7812853 Transmission Control Lever Spring. This component is designed to ensure smooth and precise operation of your vehicle's transmission control lever. Please read this manual thoroughly before proceeding with any installation or maintenance.

2. PRODUCT OVERVIEW

The General Motors 7812853 is a genuine replacement spring for the transmission control lever. It is manufactured from alloy steel, ensuring durability and consistent performance in automotive applications.



Image 2.1: The General Motors 7812853 Transmission Control Lever Spring, shown in its original packaging. The packaging clearly displays the GM logo and part number 7812853, confirming its authenticity. The spring itself is a small, coiled metal component, designed for precise mechanical function within the vehicle's transmission system.

Your browser does not support the video tag.

Video 2.2: This video demonstrates the application of a tilt column automatic shift knob spring, similar to the 7812853, in OEM GM vehicles from the 80s, 90s, and 2000s. It provides visual context for where this type of spring is typically located and its function within the steering column assembly.

Your browser does not support the video tag.

Video 2.3: This video highlights the 7812853 high-quality automatic shift lever motor spring. It showcases the product itself and its compatibility with various GM vehicles, including those with tilt and telescoping features, and models from Buick, Cadillac, Chevrolet, GMC, Oldsmobile, and Pontiac. The video also provides a visual representation of the spring's dimensions.

3. SETUP AND INSTALLATION

Installation of the 7812853 Transmission Control Lever Spring requires careful attention to detail and may involve disassembling parts of the steering column or shifter assembly. It is recommended that this procedure be performed by a qualified technician or individuals with experience in automotive repair.

3.1 Safety Precautions

- Always disconnect the vehicle's battery before starting any electrical work.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands if working underneath.
- Refer to your vehicle's specific service manual for detailed instructions and torque specifications.

3.2 Installation Steps (General Guidance)

1. **Access the Shifter Assembly:** This typically involves removing trim panels around the steering column or center console to gain access to the transmission control lever mechanism.
2. **Remove Old Spring:** Carefully locate and remove any remnants of the old, broken spring. A curved pick tool and a vacuum cleaner can be useful to ensure all pieces are removed and do not fall into the column.
3. **Prepare New Spring:** In many applications, this spring may need to be shortened by cutting off a few coils (e.g., 2-4 coils or to approximately 3/4 inch in length) to ensure proper fit and function. This is a common modification reported by users for optimal performance.
4. **Install New Spring:**
 - It can be challenging to seat the spring. Some users find it easier to remove the shifter mounting bracket and drive out the pivot pin for the shifter arm mount to create more space.
 - Use a flat screwdriver or needle-nose pliers to carefully push the spring into its designated groove. Tying a piece of dental floss to the spring can help prevent it from being lost if it slips.
5. **Reassemble:** Once the spring is securely in place, reassemble all components in reverse order of removal. Ensure all connections are secure and all fasteners are tightened to the manufacturer's specifications.
6. **Test Functionality:** After reassembly, test the transmission control lever to ensure smooth and proper shifting through all gears.

4. OPERATING PRINCIPLE

The 7812853 Transmission Control Lever Spring is a critical component in the mechanical linkage of your vehicle's automatic transmission shifter. Its primary function is to provide the necessary tension and return force to the shift lever, ensuring that the lever remains securely in the selected gear position and provides a consistent feel during gear changes. A properly functioning spring prevents the shifter from feeling loose or sloppy, contributing to safe and reliable vehicle operation.

5. MAINTENANCE

As a mechanical spring, the 7812853 typically requires minimal maintenance once installed correctly. However, regular inspection of the shifter assembly during routine vehicle maintenance is advisable. Look for:

- Any signs of corrosion or rust on the spring or surrounding components.
- Unusual looseness or excessive play in the shift lever.
- Difficulty in engaging or disengaging gears.

If any issues are observed, further inspection of the spring and associated mechanisms may be necessary.

6. TROUBLESHOOTING

6.1 Loose or Sloppy Shifter

Symptom: The transmission shift lever feels excessively loose, has too much play, or does not stay firmly in gear positions.

Possible Cause: The original transmission control lever spring is worn, broken, or missing.

Solution: Replace the spring with the General Motors 7812853. Ensure proper installation, including any necessary trimming of the spring as noted in the installation section, to achieve the correct tension and feel.

6.2 Difficulty Engaging Gears

Symptom: The shift lever is hard to move into certain gear positions, or it feels "sticky."

Possible Cause: While less common for a spring issue, an improperly installed or incorrect spring length could contribute to this. Other causes might include issues with the shift cable, transmission linkage, or internal transmission problems.

Solution: Verify the spring is correctly installed and is the appropriate length. If the issue persists, consult a professional mechanic to diagnose other potential causes.

7. SPECIFICATIONS

Attribute	Value
Brand	General Motors
Model Number	07812853
Material	Alloy Steel
Item Weight	0.176 ounces
Package Dimensions	3.46 x 1.5 x 0.43 inches
Unit Count	1 Count
UPC	786362163200

8. WARRANTY AND SUPPORT

Specific warranty information for the General Motors 7812853 Transmission Control Lever Spring is not provided in the product details. For warranty claims or technical support, please contact your original point of purchase or an authorized General Motors parts dealer. Always retain your proof of purchase for any warranty inquiries.

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Example: How do I reset this device or fix this error?

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