

Nissan 11810-EA200

Nissan 11810-EA200 Vapor Canister Valve Assembly Instruction Manual

Model: 11810-EA200 | Brand: Nissan

1. INTRODUCTION

This instruction manual provides essential information for the proper installation, operation, and maintenance of the Nissan 11810-EA200 Vapor Canister Valve Assembly. This component is a genuine Nissan part, designed to meet original equipment manufacturer (OEM) standards for fit, function, and durability. It plays a critical role in your vehicle's evaporative emission control system (EVAP).

2. SAFETY INFORMATION

Always observe the following safety precautions when working on your vehicle:

- Ensure the vehicle is turned off and the engine is cool before beginning any work.
- Disconnect the negative battery terminal to prevent accidental electrical shorts.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Refer to your vehicle's specific service manual for detailed instructions and torque specifications.
- If you are unsure about any step, consult a qualified automotive technician.

3. PRODUCT OVERVIEW

The Nissan 11810-EA200 is a vapor canister valve assembly, also commonly referred to as a purge valve or PCV valve in some contexts, though its primary function is within the EVAP system. It controls the flow of fuel vapors from the charcoal canister to the engine intake manifold, where they are burned during combustion. This process prevents harmful fuel vapors from escaping into the atmosphere.



Image 1: The Nissan 11810-EA200 Vapor Canister Valve Assembly. This image displays the part with the Nissan brand and the part number 11810-EA200 clearly visible on a two-tone background.

4. INSTALLATION

Installation of the vapor canister valve assembly typically involves replacing an existing faulty unit. The exact procedure may vary depending on your specific Nissan vehicle model and year. It is highly recommended to consult your vehicle's factory service manual for precise instructions.

General Installation Steps:

1. **Preparation:** Park the vehicle on a level surface, engage the parking brake, and ensure the engine is off and cool. Disconnect the negative battery terminal.
2. **Locate the Valve:** Identify the location of the existing vapor canister valve assembly. This is often found near the charcoal canister, fuel tank, or engine bay, depending on the vehicle model.
3. **Disconnect Components:** Carefully disconnect any electrical connectors and vacuum hoses attached to the old valve. Note their positions for correct reinstallation.
4. **Remove Old Valve:** Unmount the old valve from its bracket or housing. This may involve unscrewing bolts or releasing clips.
5. **Install New Valve:** Position the new Nissan 11810-EA200 valve assembly in place. Secure it using the original fasteners.
6. **Reconnect Components:** Reattach all vacuum hoses and electrical connectors to their correct ports on the new valve. Ensure all connections are secure.
7. **Final Checks:** Reconnect the negative battery terminal. Start the engine and check for any leaks or unusual operation. Clear any stored diagnostic trouble codes (DTCs) if necessary.

Note: Some installations may require specialized tools or knowledge. Professional installation is recommended for optimal performance and safety.

5. OPERATION

The vapor canister valve assembly operates as part of the vehicle's evaporative emission control (EVAP) system. Its primary function is to manage fuel vapors. When the engine is off, fuel vapors from the fuel tank are absorbed and stored in a charcoal canister. When the engine is running and under specific conditions (e.g., warmed up, cruising), the engine control unit (ECU) opens the vapor canister valve, allowing engine vacuum to draw these stored fuel vapors from the canister into the engine's intake manifold. These vapors are then burned as part of the normal combustion process, preventing their release into the atmosphere and reducing emissions.

6. MAINTENANCE

The Nissan 11810-EA200 Vapor Canister Valve Assembly is designed for long-term reliability. Regular maintenance typically involves:

- **Inspection:** Periodically inspect the valve and its connecting hoses for any signs of damage, cracks, or loose connections.
- **Cleaning:** While direct cleaning of the internal components is not usually recommended, ensuring the exterior is free from excessive dirt or debris can help prevent issues.
- **Replacement:** If the valve fails or exhibits symptoms of malfunction (e.g., persistent check engine light related to EVAP codes), it should be replaced with a genuine Nissan part to ensure proper system function and emission compliance.

7. TROUBLESHOOTING

Common symptoms of a malfunctioning vapor canister valve assembly include:

- **Check Engine Light:** Illumination of the Check Engine Light (CEL) with associated diagnostic trouble codes (DTCs) related to the EVAP system (e.g., P0440, P0441, P0442, P0446, P0455).
- **Rough Idling or Stalling:** A stuck-open valve can create a vacuum leak, leading to a lean fuel condition, rough idling, or stalling.
- **Difficulty Starting After Refueling:** If the valve is stuck open, it can allow fuel vapors to flood the engine, making it hard to start after filling the fuel tank.
- **Reduced Fuel Economy:** While less common, an improperly functioning valve can indirectly affect fuel efficiency.

If you experience any of these symptoms, it is recommended to have your vehicle diagnosed by a qualified technician. Diagnosis typically involves checking for vacuum leaks, testing the valve's electrical operation, and verifying proper vapor flow.

8. SPECIFICATIONS




Feature	Detail
Brand	Nissan
Model Number	11810-EA200
Item Weight	0.352 ounces
Product Dimensions (L x W x H)	6 x 4 x 4 inches
Exterior Finish	Smooth




Feature	Detail
Inlet Connection Size	4 Inches
Inlet Connection Type	Threaded
Outlet Connection Size	4 Inches
Outlet Connection Type	4 inches
Number of Ports	1
Specification Met	OEM Standards

9. WARRANTY AND SUPPORT

As a genuine Nissan part, this product is typically covered by Nissan's standard parts warranty. For specific warranty terms, conditions, and duration, please refer to the warranty information provided with your purchase or contact an authorized Nissan dealership. For technical support or assistance with installation, it is recommended to consult an authorized Nissan service center or a certified automotive technician. For further inquiries, please visit the official Nissan website or contact their customer service department.

Related Documents - 11810-EA200

	<p>Nissan Sentra 2013-2018: MIL ON with DTC P0448 - EVAP System Service Bulletin</p> <p>Technical service bulletin for Nissan Sentra (2013-2018) addressing the Malfunction Indicator Lamp (MIL) illuminated with Diagnostic Trouble Code (DTC) P0448, related to the EVAP Canister Vent Control Valve. Provides step-by-step instructions for inspection and repair of the EVAP system, including hose replacement and water inspection.</p>
	<p>2007 Nissan Maxima Quick Reference Guide</p> <p>Concise guide to the features and controls of the 2007 Nissan Maxima, covering interior systems, driver assistance, climate control, audio, and more.</p>
	<p>Nissan Juke MR16DDT Fuel System Service Manual</p> <p>Comprehensive service manual for the Nissan Juke (MR16DDT engine) detailing precautions, preparation, periodic maintenance, and removal/installation procedures for fuel system components like the fuel tank, pump, filter, and EVAP canister.</p>

	<p>Nissan X-Trail Owner's Manual: Comprehensive Guide to Your Vehicle</p> <p>This owner's manual provides detailed information on operating and maintaining your Nissan X-Trail, including the advanced e-POWER system, safety features, and technical specifications.</p>
	<p>2023 Nissan Kicks Owner's Manual and Maintenance Information</p> <p>Discover essential information for your 2023 Nissan Kicks with this comprehensive owner's manual. It covers vehicle operation, maintenance schedules, safety features, software licenses, and important consumer advisories for a safe and informed driving experience.</p>
	<p>2019 Nissan Kicks Owner's Manual and Maintenance Guide</p> <p>Your essential guide to the 2019 Nissan Kicks, covering vehicle operation, safety features, maintenance schedules, and customer support from Nissan.</p>