

Subaru 32103KA000

Subaru Genuine Magnetic Drain Plug (Part No. 32103KA000) Instruction Manual

Model: 32103KA000

1. INTRODUCTION

This manual provides essential information for the installation, function, and maintenance of your Subaru Genuine Magnetic Drain Plug, part number 32103KA000. This component is designed to replace the standard engine oil drain plug in compatible Subaru vehicles. Its primary function is to attract and retain ferrous metallic particles that may be present in the engine oil, preventing them from circulating and potentially causing wear to internal engine components. Regular inspection and cleaning of the magnetic drain plug can provide insight into the engine's internal condition and contribute to its longevity.



Figure 1: Subaru Genuine Magnetic Drain Plug, part number 32103KA000, shown with its official packaging. The packaging confirms the part number and indicates it is a genuine Subaru component manufactured by Fuji Heavy Industries Ltd. in Japan. The drain plug itself is a metallic component with a visible magnetic tip designed to attract and hold ferrous metal particles from engine oil.

2. VEHICLE COMPATIBILITY

The Subaru Genuine Magnetic Drain Plug (Part No. 32103KA000) is compatible with various Subaru models.

Please verify compatibility with your specific vehicle's service manual or a certified Subaru technician before installation.

- 2004-2021 Subaru WRX STI
- 1993-2011 Subaru Impreza
- 1990-2009 Subaru Legacy
- 2001-2013 Subaru Forester
- 2000-2009 Subaru Outback
- 2006-2014 Subaru Tribeca
- 1990-1993 Subaru Loyale
- 1985-1988 Subaru XT
- 1985-1990 Subaru DL/GL/GL10/RS/RX

3. INSTALLATION INSTRUCTIONS

Installation of the magnetic drain plug is typically performed during an engine oil change. It is recommended that this procedure be carried out by a qualified technician or an individual with appropriate automotive maintenance experience. Always refer to your vehicle's specific service manual for detailed oil change procedures and torque specifications.

3.1. Safety Precautions

- Ensure the vehicle is parked on a level surface and the engine is cool.
- Use appropriate personal protective equipment, including safety glasses and gloves.
- Support the vehicle securely with jack stands if lifting is required.
- Have a suitable oil drain pan ready to collect used oil.
- Dispose of used oil and filters responsibly according to local regulations.

3.2. Tools and Materials Required

- Wrench or socket for the drain plug (size varies by model, consult service manual).
- Torque wrench.
- New crush washer (essential for a leak-free seal).
- Oil drain pan.
- Clean rags.
- New engine oil and oil filter (as part of a complete oil change).

3.3. Installation Steps

1. **Prepare Vehicle:** Position the oil drain pan beneath the engine oil pan.
2. **Remove Old Drain Plug:** Using the appropriate wrench, carefully loosen and remove the existing drain plug. Allow all old engine oil to drain completely.
3. **Clean Area:** Wipe the drain plug opening on the oil pan with a clean rag to remove any residual oil or debris.
4. **Prepare New Plug:** Place a new crush washer onto the Subaru Genuine Magnetic Drain Plug (Part No. 32103KA000). *It is crucial to use a new crush washer with each oil change to ensure a proper seal and prevent leaks.*
5. **Install New Plug:** Thread the magnetic drain plug into the oil pan by hand to ensure it is not cross-threaded.
6. **Torque Plug:** Once hand-tight, use a torque wrench to tighten the drain plug to the manufacturer's specified torque. *Refer to your vehicle's service manual for the exact torque specification. Overtightening can damage the oil pan threads, while undertightening can lead to leaks.*
7. **Refill Oil:** Proceed with refilling the engine with the specified amount and type of new engine oil.

8. **Check for Leaks:** After refilling and running the engine briefly, check around the drain plug for any signs of oil leakage.

4. OPERATION AND FUNCTION

The Subaru Genuine Magnetic Drain Plug operates passively. Once installed, its integrated magnet continuously attracts and holds ferrous metallic particles that are suspended in the engine oil. These particles, often microscopic, are byproducts of normal engine wear. By collecting them, the magnetic drain plug helps to keep the engine oil cleaner and reduces the abrasive wear these particles could cause to critical engine components. The plug does not require any active user interaction during vehicle operation.

5. MAINTENANCE

The primary maintenance for the magnetic drain plug occurs during each engine oil change.

5.1. Inspection and Cleaning

1. When removing the drain plug during an oil change, carefully inspect the magnetic tip.
2. Any metallic sludge or fine particles adhering to the magnet should be wiped clean with a rag. The presence of a small amount of fine metallic paste is normal and indicates the magnet is functioning as intended.
3. If large metal shavings or chunks are observed, this may indicate a more significant internal engine issue. In such cases, consult a qualified mechanic for further inspection.
4. Always replace the crush washer with a new one during reinstallation to ensure a proper seal.

5.2. Replacement

The magnetic drain plug itself is a durable component and typically does not require regular replacement unless it is damaged (e.g., stripped threads, damaged magnet) or shows signs of wear. Inspect the plug for any damage during each oil change. If damage is found, replace it with a new Subaru Genuine Magnetic Drain Plug (Part No. 32103KA000).

6. TROUBLESHOOTING

6.1. Oil Leakage from Drain Plug

- **Cause:** Improperly tightened drain plug (too loose or overtightened), damaged or reused crush washer, damaged oil pan threads.
- **Solution:**
 1. Drain a small amount of oil into a clean pan.
 2. Remove the drain plug.
 3. Inspect the crush washer; replace it with a new one if it's damaged or was reused.
 4. Inspect the drain plug threads and oil pan threads for damage. If damaged, replacement of the plug or repair of the oil pan may be necessary.
 5. Reinstall the drain plug with a new crush washer and tighten to the manufacturer's specified torque.
 6. Check for leaks after refilling oil and running the engine.

6.2. No Metallic Particles on Magnet

- **Cause:** This is generally a positive indication that your engine is experiencing minimal ferrous wear.
- **Solution:** Continue regular oil changes and inspections. If you suspect an issue with the magnet itself, you can test its strength with a small metal object.

7. SPECIFICATIONS



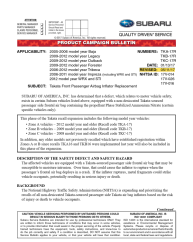
Attribute	Detail
Part Number	32103KA000
Brand	Subaru
Model	Drain Plug
Manufacturer	Subaru
Item Weight	1.76 ounces
Product Dimensions	3 x 3 x 1 inches
Exterior Finish	Machined

8. WARRANTY AND SUPPORT

As a genuine Subaru part, this magnetic drain plug is manufactured to Subaru's quality standards. Specific warranty terms for genuine Subaru parts can vary by region and purchase location. Please retain your proof of purchase. For detailed warranty information or technical support, it is recommended to contact your authorized Subaru dealership or refer to the official Subaru website for your region.

For further assistance, please consult your vehicle's owner's manual or contact a certified Subaru service center.

Related Documents - 32103KA000

	<p>2011 Subaru Warranty & Maintenance Booklet: Owner's Guide</p> <p>Comprehensive guide to 2011 Subaru vehicle warranties, including new vehicle, powertrain, and emissions coverage, along with essential maintenance schedules and tips for owners.</p>
	<p>Subaru Boxer Engine Maintenance Schedule for 2012+ Models</p> <p>Official maintenance schedule for Subaru Boxer engines, covering Forester, Impreza, Legacy, Outback, Tribeca, WRX, and WRX STI models from 2012 onwards. Includes service intervals, required tasks for service codes A, B, C, and D, and important notes.</p>
	<p>Subaru Takata Front Passenger Airbag Inflator Recall - Safety Campaign Bulletin</p> <p>Official Subaru of America product campaign bulletin detailing the safety recall for Takata front passenger airbag inflator replacement in various Subaru models from 2005-2012. Learn about the defect, affected vehicles, and required service procedures.</p>

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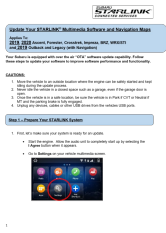
[Subaru TechTIPS Newsletter Locator Index: Comprehensive Guide to Service Information](#)

Find specific technical articles and service information for Subaru vehicles with the TechTIPS Newsletter Locator Index, updated through June 2022. Covers a wide range of topics from general information to specific system diagnostics.



[2012 Subaru Impreza WRX & WRX STI Quick Reference Guide](#)

Quickly access essential information for your 2012 Subaru Impreza WRX and WRX STI. Covers controls, operation, safety, and more.



[Update Subaru STARLINK Multimedia Software and Navigation Maps Guide](#)

A comprehensive guide for Subaru owners on how to update their STARLINK multimedia system software and navigation maps. Covers methods via Wi-Fi and USB drive for 2019-2020 models.