

Manuals.plus /

› Fricgore /

› Instruction Manual for Fricgore Replacement Parts for Stihl MS381 Chainsaw

## Fricgore MS381

# Instruction Manual for Fricgore Replacement Parts for Stihl MS381 Chainsaw

This manual provides detailed information regarding the installation, operation, and maintenance of Fricgore replacement components for the Stihl MS381 Chainsaw.

## PRODUCT OVERVIEW

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This product offers a comprehensive set of replacement parts designed for the Stihl MS381 Chainsaw. These components are intended to facilitate repair and restoration of the chainsaw's engine and related systems, ensuring continued functionality and performance. The kit includes major assemblies such as the engine cylinder, carburetor, and fuel tank, along with various smaller components necessary for a complete overhaul.

## Included Components

The complete set of replacement parts for the Stihl MS381 Chainsaw includes the following:

- 1pc Engine Complete
- 1pc Fan housing with rewind starter Assy (Part No. 1119 080 2101)
- 1pc Chain sprocket cover Assy (Part No. 1128 640 1706)
- 1pc Tank housing Assy (Part No. 1119 350 0854)
- 1pc Crankshaft (Part No. 1119 030 0400)
- 1pc Muffler Assy (Part No. 1119 140 0604)
- 1pc Clutch (Part No. 1119 160 2002)
- 1pc Chain sprocket 3/8" 7T (Part No. 1119 640 2000)
- 1pc Ignition module Assy (Part No. 0000 400 1300)
- 1pc Flywheel (Part No. 1119 400 1206)
- 1pc Oil pump Assy (Part No. 1119 640 3200)
- 1pc Needle cage 12x16x24 (Part No. 9512 933 3150)
- 1pc Bumper spike (Part No. 1128 664 0500)
- 1pc Inner side plate (Part No. 1119 664 1000)
- 1pc Washer (Part No. 1119 162 8915)

- 1pc Washer (Part No. 1119 642 7800)
- 1pc Washer (Part No. 0000 958 1232)
- 1pc Bushing 5x10x12 (Part No. 1124 792 5500)
- 1pc Retainer (Part No. 1121 791 1200)
- 1pc Chain catcher (Part No. 1119 656 7701)
- 1pc Sleeve (Part No. 1119 141 1800)
- 1pc Grommet (Part No. 1119 123 7502)
- 1pc Bushing 8x13x10 (Part No. 1124 792 5505)
- 1pc Carburetor box cover (Part No. 1119 140 1906)
- 1pc Shroud (Part No. 1119 084 0904)
- 1pc Hand guard (Part No. 1119 790 9100)
- 1pc Filler cap (Part No. 0000 350 0525)
- 1pc Air filter (Part No. 1119 120 1626)
- 1pc Oil Pump Worm (Part No. 1119 640 7100)
- 1pc Oil Pump Spur Gear (Part No. 1119 642 1501)
- 1pc Plug (Part No. 1119 791 7306)
- 1pc Plug (Part No. 1119 791 7300)
- 1pc Plug (Part No. 1125 791 7306)
- 1pc Muffler gasket (Part No. 1125 149 0601)
- 1pc Gasket (Part No. 1117 649 1100)
- 1pc Cover (Part No. 1119 021 1102)
- 1pc Handlebar (Part No. 1119 790 1701)
- 1pc Chain Brake System
- 1pc Chain Adjuster Kit
- 1pc Carburetor (Part No. 1119 120 0605)
- 1pc Hexagon nut M8\*1 (Part No. 9210 261 1140)
- 2pcs Hexagon nut M5 (Part No. 9210 260 0700)
- 1pc Hexagon nut M5 (Part No. 9214 320 0700)
- 1pc Woodruff key 2x3.7x10 (Part No. 1120 036 8500)
- 1pc Collar Screw (Part No. 1124 084 8700)
- 1pc E-clip 10x1.5 (Part No. 9460 624 1001)
- 1pc Circlip 36\*1.2 (Part No. 9455 621 4010)
- 1pc Pan head screw M4\*8
- 5pcs Spline screw IS-M4\*12 (Part No. 9022 313 0660)
- 3pcs Spline screw IS-M4\*25
- 2pcs Spline screw IS-M5\*6 (Part No. 9022 341 0910)
- 1pc Spline screw IS-M5\*12 (Part No. 9022 341 0960)
- 2pcs Spline screw IS-M5\*16 (Part No. 9022 341 098)

## SETUP AND ASSEMBLY

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Proper assembly of these replacement parts is crucial for the safe and efficient operation of your Stihl MS381 Chainsaw. It is highly recommended that assembly be performed by individuals with experience in chainsaw repair or by following a detailed service manual for the Stihl MS381 model. Always ensure the chainsaw is turned off and spark plug removed before beginning any work.

## Component Identification



**Figure 1.1:** An overhead view of the complete Frigore replacement parts kit for the Stihl MS381 Chainsaw, showing all major and minor components disassembled.



**Figure 1.2:** A slightly different perspective of the Frigore replacement parts, highlighting the engine block, fuel tank, and various smaller mechanical components.



Figure 1.3: A direct top-down view of the Frigore replacement parts, providing a clear layout of all included components.



**Figure 1.4:** A detailed view of the engine cylinder and crankcase assembly, showing internal components and mounting points.



**Figure 1.5:** The fuel tank and handle assembly, illustrating its structure and connection points.

## Assembly Guidelines

1. **Safety First:** Always wear appropriate personal protective equipment (PPE), including gloves and eye protection. Ensure the chainsaw is completely de-energized and cooled before starting.
2. **Reference Original Manual:** For precise assembly steps, refer to the official Stihl MS381 Chainsaw service manual. This replacement kit provides the components, but detailed assembly instructions are specific to the original equipment.
3. **Organize Components:** Before beginning, lay out all parts and verify against the included components list. Group similar parts to streamline the assembly process.
4. **Cleanliness:** Ensure all mating surfaces are clean and free of debris, old gasket material, or oil residue to ensure proper sealing and fit.
5. **Torque Specifications:** Adhere to the manufacturer's specified torque settings for all fasteners. Overtightening or undertightening can lead to damage or operational failure.
6. **Lubrication:** Apply appropriate lubricants to moving parts and seals as specified by the original equipment manufacturer.
7. **Test Fit:** Before final assembly, test fit components to ensure proper alignment and clearance.
8. **Post-Assembly Check:** After assembly, perform a thorough inspection to ensure all connections are secure, hoses are properly routed, and no parts are left over.

## OPERATION GUIDELINES (POST-ASSEMBLY)

Once the replacement parts are correctly installed, the chainsaw should operate as intended. Always follow the original Stihl MS381 Chainsaw operating manual for safe and effective use. The following are general guidelines:

- **Fuel Mixture:** Use the correct fuel-to-oil mixture as specified by Stihl for the MS381 model. Incorrect mixtures can damage the engine.
- **Starting Procedure:** Follow the standard starting procedure for the MS381, including choke settings and pull cord technique.
- **Chain Tension:** Ensure the saw chain is properly tensioned before each use.

- **Safety Features:** Verify that all safety features, such as the chain brake and throttle lockout, are functioning correctly.
- **Break-in Period:** If major engine components (like the cylinder or piston) have been replaced, consider a brief break-in period with lighter loads to allow new parts to seat properly.

## MAINTENANCE AND CARE

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Regular maintenance extends the lifespan of your chainsaw and its components. Adhere to the maintenance schedule outlined in the original Stihl MS381 Chainsaw manual.

- **Air Filter Cleaning:** Regularly inspect and clean or replace the air filter to ensure proper engine breathing and prevent debris from entering the carburetor.
- **Spark Plug Inspection:** Check the spark plug for wear and proper gap. Replace if necessary.
- **Fuel Filter:** Periodically inspect and replace the fuel filter to prevent fuel system contamination.
- **Carburetor Adjustment:** If the chainsaw is not running smoothly after part replacement, the carburetor may require adjustment. This should be done by a qualified technician.
- **Lubrication:** Ensure the oil pump and chain lubrication system are functioning correctly.
- **General Cleaning:** Keep the chainsaw clean, especially cooling fins and air intakes, to prevent overheating.

## TROUBLESHOOTING COMMON ISSUES

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This section provides general troubleshooting tips for issues that may arise after replacing components. For comprehensive diagnostics, consult a professional or the original Stihl service manual.

Problem	Possible Cause	Solution
Engine does not start	Incorrect fuel mixture, fouled spark plug, carburetor issues, improper assembly of ignition module.	Verify fuel mixture. Inspect/replace spark plug. Check carburetor for blockages or incorrect settings. Ensure ignition module is correctly installed and gapped.
Loss of power / Runs poorly	Clogged air filter, carburetor out of adjustment, exhaust port carbon buildup, improper engine assembly (e.g., air leaks).	Clean/replace air filter. Adjust carburetor (professional recommended). Clean exhaust port. Re-check engine seals and gaskets for leaks.
Excessive smoke	Incorrect fuel-to-oil ratio, worn piston rings (if not replaced), carburetor running too rich.	Ensure correct fuel mixture. If piston rings were not replaced, consider engine overhaul. Adjust carburetor.
Chain not moving	Improper clutch assembly, chain brake engaged, chain sprocket issue.	Check clutch installation. Disengage chain brake. Inspect chain sprocket for damage or incorrect installation.

## PRODUCT SPECIFICATIONS

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These specifications pertain to the general characteristics of the replacement parts and the chainsaw model they are designed for.

Attribute	Detail
Manufacturer	Fricgore
Compatible Chainsaw Model	Stihl MS381
Power Source (Original Chainsaw)	Gasoline-powered
Item Package Quantity	1 (Complete set of parts)
ASIN	B08373M71Y
Date First Available	December 30, 2019

## WARRANTY AND SUPPORT

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As these are replacement parts, specific warranty coverage may vary. It is recommended to consult the seller, Fricgore, for any direct warranty information pertaining to these components. For operational issues or detailed technical support related to the Stihl MS381 Chainsaw itself, please refer to the official Stihl service centers or their authorized documentation. For general inquiries regarding your purchase, please contact the retailer where the product was acquired.