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## Nagano NCS7HP

# Nagano NCS7HP Gasoline Jumping Jack Soil Compactor User Manual

Model: NCS7HP

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Nagano NCS7HP Gasoline Jumping Jack Soil Compactor. Please read this manual thoroughly before operating the machine to ensure proper use and to prevent injury or damage.

The Nagano NCS7HP is designed for efficient and uniform compaction of friable soils (with up to 30% gravel), creating solid and secure bases for various construction projects. Its robust design and powerful 7 HP 4-stroke engine deliver precise impact and high productivity, essential for projects requiring quality and durability in compaction.



Figure 1: Front-side view of the Nagano NCS7HP Gasoline Jumping Jack Soil Compactor.

## 2. SAFETY INFORMATION

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Always prioritize safety when operating heavy machinery. Failure to follow safety instructions can result in serious injury or death.

- **Read the Manual:** Understand all operating and safety instructions before use.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, hearing protection, sturdy footwear, and gloves.
- **Fuel Handling:** Handle gasoline with extreme care. Refuel in a well-ventilated area with the engine off and cool. Do not smoke near fuel.

- **Ventilation:** Operate the compactor in well-ventilated areas to avoid carbon monoxide poisoning.
- **Clear Work Area:** Keep bystanders, children, and pets away from the operating area. Remove any obstacles or debris.
- **Inspect Before Use:** Before each use, inspect the machine for loose parts, damage, or fuel leaks. Do not operate a damaged machine.
- **Stable Ground:** Operate on stable, level ground. Avoid steep slopes or unstable surfaces.
- **Emergency Stop:** Familiarize yourself with the location and operation of the emergency stop control.
- **Maintenance:** Perform all maintenance with the engine off and spark plug wire disconnected.

## 3. SETUP AND ASSEMBLY

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Before first use, ensure the compactor is properly assembled and prepared.

### 3.1 Unpacking

1. Carefully remove the compactor from its packaging.
2. Check for any shipping damage. Report any damage to your dealer immediately.
3. Verify all components are present according to the packing list.

### 3.2 Handle Assembly

Attach the operating handle to the main frame using the provided bolts and nuts. Ensure all connections are secure.

### 3.3 Fuel and Oil

The engine is a 4-stroke gasoline engine. It requires separate gasoline and engine oil.

- **Engine Oil:** Fill the engine crankcase with the recommended 4-stroke engine oil (refer to engine manual for specific type and capacity). Do not overfill.
- **Fuel:** Fill the fuel tank with fresh, unleaded gasoline. Do not use mixed fuel. Ensure the fuel cap is securely tightened.



Figure 2: Side view of the engine, indicating the fuel and oil fill points (refer to specific labels on the machine).

## 4. OPERATING INSTRUCTIONS

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### 4.1 Pre-Operation Checklist

- Check engine oil level.
- Check fuel level.
- Inspect air filter.
- Ensure all bolts and fasteners are tight.
- Verify the work area is clear of obstructions.

### 4.2 Starting the Engine

1. Open the fuel valve.
2. Move the choke lever to the "CHOKE" position (if engine is cold).
3. Set the throttle lever to the "FAST" position.
4. Pull the recoil starter handle firmly until the engine starts.
5. Once the engine starts, gradually move the choke lever to the "RUN" position.
6. Allow the engine to warm up for a few minutes before beginning compaction.

### 4.3 Compaction Procedure

- Guide the compactor over the area to be compacted. The machine will move forward with each impact.
- Overlap passes slightly to ensure uniform compaction.
- The compactor is effective for friable soils with up to 30% gravel content.
- Achievable compaction depth is typically between 5cm and 15cm, depending on soil type and moisture content.
- The handle is designed with vibration isolation to reduce operator fatigue.

### 4.4 Stopping the Engine

1. Move the throttle lever to the "SLOW" or "IDLE" position.
2. Turn the engine switch to the "OFF" position.
3. Close the fuel valve.

## 5. MAINTENANCE

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Regular maintenance is crucial for the longevity and optimal performance of your compactor. Always ensure the engine is off and cool before performing any maintenance.

### 5.1 Daily Checks

- Check engine oil level.
- Inspect air filter for dirt and debris. Clean or replace if necessary.
- Check for loose bolts or nuts. Tighten as needed.
- Inspect the bellows (red corrugated boot) for cracks or damage.
- Clean the machine of dirt and debris.



Figure 3: View of the compactor's gearbox and bellows, critical components for inspection.

## 5.2 Engine Oil Change

Change the engine oil after the first 5 hours of operation, then every 25-50 hours or seasonally, depending on use. Refer to the engine manual for detailed instructions and oil specifications.

## 5.3 Air Filter Maintenance

Clean the air filter regularly, especially when operating in dusty conditions. A clogged air filter can reduce engine performance and lifespan. Wash foam elements in warm, soapy water, rinse, and allow to dry completely before re-oiling lightly.

## 5.4 Spark Plug

Inspect the spark plug annually or every 100 hours. Clean or replace if electrodes are fouled or worn. Ensure correct gap

setting.

## 6. TROUBLESHOOTING

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This section addresses common issues you might encounter. For problems not listed here, contact qualified service personnel.

Problem	Possible Cause	Solution
Engine does not start	No fuel; Fuel valve closed; Engine switch OFF; Choke incorrect; Fouled spark plug	Add fuel; Open fuel valve; Turn engine switch ON; Adjust choke; Clean/replace spark plug
Loss of power during operation	Clogged air filter; Low oil level; Incorrect fuel; Overheating	Clean/replace air filter; Check/add oil; Use fresh, correct fuel; Allow engine to cool
Excessive vibration	Loose components; Damaged bellows; Unbalanced operation	Check and tighten all fasteners; Inspect and replace damaged bellows; Ensure even compaction
Poor compaction	Incorrect soil type; Insufficient passes; Low engine RPM	Verify soil suitability; Increase number of passes; Adjust throttle to FAST position

## 7. SPECIFICATIONS

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Feature	Specification
Model	NCS7HP
Engine Type	4-Stroke Gasoline Engine
Engine Power	7 HP
Impact Force	20 kN
Compaction Depth	5cm - 15cm
Fuel Tank Capacity	2.8 L
Dimensions (L x W x H)	57cm x 97cm x 51cm
Weight	100 kg
Color	Red
Part Number	7899646140156

## 8. WARRANTY AND SUPPORT

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For warranty information, please refer to the warranty card included with your product or contact your authorized Nagano dealer. Keep your purchase receipt as proof of purchase for warranty claims.

For technical support, spare parts, or service, please contact Nagano customer service or your local service center.

Provide your product model (NCS7HP) and serial number when seeking assistance.



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