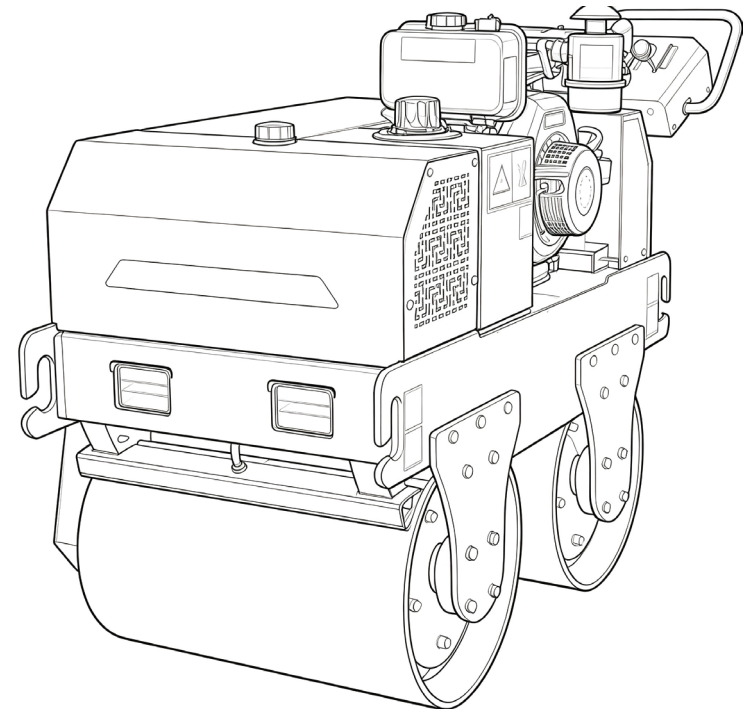


WALK-BEHIND DOUBLE-WHEEL VIBRATORY ROLLER

Model: JT-SL600D



INSTRUCTION FOR USE

BE CAREFUL

Due to the continuous innovation of our products, there may be some parts that are inconsistent with this manual during product upgrades. Please refer to the actual product for accuracy. Please understand.

Please read this manual carefully before use

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I. Introduction

Thank you for purchasing our walk-behind double-drum vibratory roller.

To achieve optimal machine performance, please thoroughly follow the maintenance, operation and safety instructions specified in this manual. Replace defective components immediately to avoid serious malfunctions. We welcome your feedback and suggestions for product improvement.

II. Product Overview

The JT-SL600D walk-behind double-drum vibratory roller is manually steered with dual-drum drive and vibratory compaction. It is suitable for compaction of subgrade, asphalt pavement, community sidewalks, trench backfilling, courtyard floors and narrow construction sites. It is widely used in road repair, landscape engineering and municipal construction in confined areas.

III. Main Technical Parameters

Item	Parameter	Item	Parameter
Model	JT-SL600D	Engine	Loncin 420 Gasoline Engine
Gradeability	30%	Water tank capacity	36L
Power	9.6KW	Travel mode	Forward / Reverse
Static linear pressure	47/50(N/cm)	Starting mode	Electric start
Exciting force	20KN	Machine type	Vibratory roller
Travel speed	0~5km/h	Vibration frequency	75Hz
Drum	Double drum	Rated speed	3600rpm
Drum diameter	426mm	Machine weight	530kg
Drum dimension	600×426mm	Overall dimension	1300×780×1200mm

Note: Actual parameters shall be subject to the machine nameplate.

IV. Machine Structure Description

- 1.Walk-behind control handle: Controls forward, reverse and steering; equipped with clutch / vibration control switch.
- 2.Engine assembly: Power unit including fuel tank, air filter, spark plug and exhaust pipe.
- 3.Hydraulic power station: Supplies driving force for travel.
- 4.Vibration motor: Generates vibration force for steel drums.
- 5.Front & rear compaction drums: Compacts ground surfaces.
- 6.Work light: Auxiliary lighting for low-light working conditions.
- 7.Machine protective cover: Protects hydraulic hoses and internal components.

V. Warning Labels

No.	Label	Label Description
1		High-temperature components. Do not touch with hands.
2		Before maintenance and repair, stop engine and remove key.
3		Read operation manual before starting machine.
4		Hydraulic oil level indicator.
5		Sprinkler-tank mark: Filter is located here.
6		Lashing / tie-down point.
7		Lifting point.
8		Warning sign.
9		Caution sign.
10		Danger sign.

VI. Safety Operation Precautions

Safety Warning: Improper operation may cause personal injury!

- Operators must receive professional training and master machine operation. Minors are prohibited from operating this machine.
- Wear safety shoes and work clothes during operation. Tie up long hair. Keep loose clothing away from engine and transmission parts.
- Shut down engine before refueling. Keep away from open flames and smoking. Fuel is highly flammable.
- Do not touch hot exhaust pipe and engine housing while engine is running to prevent scald injuries.
- Do not travel cross-slope on ramps. Avoid excessive downhill speed to prevent runaway.
- Always shut down engine and remove spark-plug cap before repair or maintenance.
- Do not start engine in enclosed spaces. Exhaust gas contains carbon monoxide which may cause poisoning.
- Keep safe distance from ditches and foundation pits to prevent roller falling.

VII. Machine Operation

● Pre-start Preparation

Complete all pre-use maintenance work and check the following items:

- Confirm the reversing lever is set to neutral position.
- Ensure vibration switch is in OFF position.
- Clean and properly adjust scrapers.
- Verify engine fuel and oil meet specifications.
- Check hydraulic-tank oil level.
- Start the machine on ground with gentle slope.
- Inspect all bolts for looseness.

● Starting

- Turn on main power switch (flip upward).
- Turn start key to ON position to start engine.
- Let engine warm-up for 5 minutes before operation.

● Travel and Braking

Notice: Check surroundings for personnel and obstacles before moving.

- Forward: Push reversing lever forward for forward travel.
- Reverse: Pull reversing lever backward for reverse travel.
- Stop: Return reversing lever to neutral to stop travel.

● Vibration Operation

- Turn vibration switch to ON to activate vibration.
- Turn vibration switch to OFF to deactivate vibration.

● Water Spraying Operation

- Check water-tank level and fill up before activating sprinkler system.
- Press water-valve switch to turn on sprinkler. Spraying flow can be adjusted freely.

Notice: Drain all water from tank and sprinkler system if ambient temperature drops below 0°C when machine is parked.

● Scraper Adjustment

- Loosen bolts to move scraper up and down to adjust clearance between scraper and drum.

● Low-temperature Operation

- Use low-viscosity fuel and lubricants.
- Keep battery properly insulated.

● Shutdown

- Set reversing lever to neutral to stop machine travel.
- Turn the gasoline throttle to the minimum position, then shut off the gasoline engine.
- Install wedge blocks to lock front and rear drums.

VIII. Daily Maintenance

● After-each-use Maintenance

1. After engine cools down, clean mud and debris from drums and machine body. **Do NOT spray high-pressure water directly onto engine.**

2. Check for oil leakage and loose bolts.

● **Every 20 Operating Hours**

1. Check engine oil level.

2. Clean air-filter element; heavily soiled foam filter shall be cleaned and dried before reuse.

● **Every 50 Operating Hours**

1. Change engine oil (drain oil while engine is warm for best effect).

2. Check hydraulic oil level.

3. Inspect spark plug; remove carbon deposits and replace if necessary.

4. Tighten all bolts.

● **Every 200 Operating Hours**

1. Replace hydraulic oil and hydraulic filter element.

2. Inspect vibration motor and hydraulic hoses for aging or wear.

3. Check and adjust engine valve clearance.

Important: Always stop engine and allow full cooling before maintenance work!

IX. Common Faults & Troubleshooting

Fault	Possible Cause	Solution
Engine fails to start	Engine switch off; fuel-tank / carburetor fault; incorrect spark-plug gap; damp spark plug	Turn on engine switch; repair fuel tank & carburetor; adjust gap or replace spark plug; dry spark plug and reinstall.
Insufficient engine power	Clogged filter element	Replace filter element.
No vibration	Vibration switch off; vibration-motor failure; insufficient hydraulic pressure	Turn on vibration switch; check hydraulic pressure; repair vibration motor.
Clutch smoking	Clutch jamming / excessive oil contamination	Replace bearing; remove excess oil contamination.
Poor travel power	Low hydraulic-oil level; insufficient hydraulic-oil viscosity	Refill hydraulic oil; switch to higher-viscosity hydraulic oil.
No forward / reverse movement	Reversing-valve fault; damaged bearing	Repair reversing valve; replace bearing.

X. Storage and Transportation

● **Short-term Storage (≤1month)**

1. Park machine on flat open ground and lock drums with wedge blocks.

2. Clean dirt and dust from whole unit. Thoroughly wipe engine, hydraulic pump, hydraulic motor and hose surfaces with soft dry cloth.

3. Drain water from sprinkler tank.

4. Wipe components and all grease fittings with kerosene and apply lubricating grease.

● **Long-term Storage**

● **Storage Site**

1. Store preferably in ventilated dry warehouse.

2. For outdoor storage: Park on well-drained concrete ground free from corrosive substances and natural-hazard risks. Cover and secure machine with tarpaulin.

● **Pre-storage Preparation**

1. Fully drain sprinkler system and clean water tank thoroughly.

2. Fill fuel tank and hydraulic tank to maximum level; replace oil if degraded.

3. Clean machine completely; keep surface dry, free of rust and contaminants.

4. Apply anti-rust coating to exposed metal parts. Fully lubricate machine; coat exposed piston rods of hydraulic cylinders with grease.

5. Cut off main power; turn off battery switch.

6. Remove ignition key.

7. Disconnect battery negative terminal or remove battery for separate storage.

● **Periodic Inspection during Storage**

1. Inspect every 6 months in warm regions; inspect every 3 months in tropical, temperate-coastal cold zones.

2. Regularly check machine appearance, anti-rust coating and protective materials.

3. Start machine once per month; run at low speed for 30 minutes to lubricate all systems; apply grease to all grease nipples.

4. Charge battery once per month.

● **Preparation before Reuse after Long-term Storage**

1. Remove tarpaulin cover.

2. Clean anti-rust protective layers from exposed parts.

3. Charge battery, reinstall and reconnect.

4. Drain old oil from engine crankcase and reducer; clean and refill with new oil.

5. Drain debris and accumulated water from hydraulic tank and fuel tank.

6. Apply lubricating grease to all rotating parts.

7. Perform pre-start inspection as described in Operation chapter.

● **Loading & Transit**

Shut down engine, fasten and secure the roller to prevent sliding and collision during transportation.

Disclaimer: Damage caused by improper operation, lack of maintenance or overload use shall not be covered under normal-wear scope.