

909[®]

NINE ZERO NINE

INSTRUCTION MANUAL
DYM-1773



135CC
PETROL
LAWN MOWER

POWERED by
HONDA[™]

909[®] 
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Warranty Power Tools

For full details please visit us at www.909.com

Introduction

Your new 909 power tool will more than satisfy your expectations. It has been manufactured under stringent 909 Quality Standards to meet superior performance criteria.

You will find your new tool easy and safe to operate, and, with proper care, it will give you many years of dependable service.

CAUTION. Carefully read through this entire Instruction Manual before using your new 909 Power Tool. Take special care to heed the Cautions and Warnings.

Your 909 power tool has many features that will make your job faster and easier. Safety, performance, and dependability have been given top priority in the development of this tool, making it easy to maintain and operate.

Environmental protection



Recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be sorted, taken to the local recycling centre and disposed of in an environmentally safe way.

Description of symbols

The rating plate on your tool may show symbols. These represent important information about the product or instructions on its use.



Wear hearing protection.
Wear eye protection.
Wear breathing protection.



Wear safety gloves.



Wear safety footwear.



Read these instructions for use carefully.



Warning.



Explosive material.



Use at a distance of at least 15m from other people.



Extremely hot surface. Do not touch a hot muffler, gear box or cylinder. You may get burned. These parts get extremely hot from operation and remain hot a short time after the unit is turned off.



Thrown objects and rotating blades can cause severe injury.



CAUTION. Before carrying out any operation stop the engine and disconnect the spark plug cap.



CAUTION. Risk of hand and feet injuries.



Conforms to relevant standards for electromagnetic compatibility

N25652



Noise label rating 96dBA (taken at 7.5 metres) you must wear ear protection at all times.

Specifications

Engine: FOUR STROKE

Engine Capacity: 135cc

Stroke: 40mm

Speed: 2800min-1

Fuel Type: Unleaded petrol

Oil Type: 4 Stroke Motor Oil 10-30W

Fuel Tank Capacity: 0.77L

Oil Tank Capacity: 0.55L

Width of Cut: 410mm

Blades: Single bar blade

Height Adjustment: Single lever, 7 Levels

30mm - 75mm

Wheel Size: 150mm (Front)

180mm (Rear)

Spark Plug Type: BPR4ES

Weight (GW): 25.4kg

Noise label rating 96dBA (taken at 7.5 metres).

Safety rules for petrol lawn mowers

Training

- Read the instructions carefully. Get familiar with the controls and proper use of the equipment.
- Only use the lawn mower for the purpose for which it was designed, i.e. for cutting and collecting grass. Any other use can be hazardous, causing damage to the machine.
- Never allow children or people unfamiliar with these instructions to use the lawn mower. Local regulations may restrict the age of the operator.
- Never use the lawn mower:
 - When people, especially children, or pets are nearby.
 - If the operator has taken medicine or substances that can affect his ability to react and concentrate.
- Remember that the operator or user is responsible for accidents or hazards occurring to other people or their property.

Preparation

- While mowing, always wear sturdy footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
- Thoroughly inspect the area where the equipment is to be used and remove all objects which may be thrown by the machine or damage the cutter assembly and the engine (stones, sticks, metal wire, bones, etc.)
- **WARNING: DANGER!** Engine fuel is highly flammable:
 - Store fuel in containers specifically designed for this purpose.
 - Refuel using a funnel and outdoors only. Do not smoke while refuelling or whenever handling the fuel.
 - Add fuel before starting the engine. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot.
 - If fuel is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until the fuel has evaporated and the vapour dispersed.

- Replace all fuel tanks and containers caps securely.
- Substitute faulty silencers.
- Before use, always inspect the machine, especially the condition of the blades, and check that the screws and cutting assembly are not worn or damaged. Replace worn or damaged blades and screws in sets to preserve balance.
- Discharge openings must be guarded at all times. Do not remove the discharge guard or hold it up while mowing.
- It is advisable to wear suitable eye protection when operating the mower.
- Start the engine carefully, following the instructions and keeping feet well away from the blade.
- Do not tilt the lawn mower when starting the engine. Start the engine on a flat surface that is free of obstacles and tall grass.
- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- Never pick up or carry a lawn mower while the engine is running.
- Stop the engine and disconnect the spark plug wire:

Operation

- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- Mow only in daylight or good artificial light.
- If possible, avoid operating the equipment in wet grass.
- Always be sure of your footing on slopes.
- Walk, never run and do not allow yourself to be pulled along by the lawn mower.
- Mow across the face of slopes, never up and down.
- Exercise extreme caution when changing direction on slopes.
- Do not mow on slopes of more than 20°.
- Exercise extreme caution when pulling the lawn-mower towards you.
- Stop the blade if the lawn mower has to be tilted for transportation when crossing surfaces other than grass, and when transporting the lawn mower to and from the area to be mowed.
- Never operate the lawn mower with defective guards, or without safety devices, such as the stoneguard and/or grass-catcher, in place. Replace if damaged.
- Do not change the engine governor settings or over speed the engine.
- On power-driven models, disengage the drive clutch before starting the engine.
- Before carrying out any work underneath the cutting deck or before unlogging the chute;
- Before checking, cleaning or working on lawn mower;
- After striking a foreign object. Inspect the lawn mower for damage and make repairs before restarting and operating the lawn mower;
- If the lawn mower starts to vibrate abnormally (find and remove the cause of the vibration immediately).
- Stop the engine:
 - Whenever you leave the lawn mower unattended. Remove the key from models with electric starters.
 - Before refuelling.
 - Every time you remove or replace the grass-catcher.
- Reduce the throttle before turning off the engine and turn the fuel off when you have finished mowing, following the instructions in the engine handbook.
- When mowing, always keep to a safe distance from the rotating blade. This distance is the length of the handle.
- Never cut grass while walking backwards.
- Stop the engine before pushing mower across gravel drives, walks or roads.
- This machine is to be used exclusively for cutting natural grass. Never use the mower for other purposes. Any other utilization can involve danger for your safety and can involve damage to the mower.

- The user is responsible for the safety of other people, animals and objects in the working area. Keep children and domestic animals at a safe distance while the mower is in use.

Maintenance and storage

- Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition. Regular maintenance is essential for safety and performance.
- Never store the equipment with fuel in the tank inside a building where vapour may reach a flame or a spark or a source of extreme heat.
- Allow the engine to cool before storing in an enclosed space.
- To reduce the fire hazard, keep the engine, exhaust silencer, battery compartment and fuel storage area free of grass, leaves, or excessive grease. Do not leave containers with grass cuttings in rooms.
- Check the stone-guard and grass-catcher frequently for wear and deterioration and replace if damaged.
- If the fuel tank has to be drained, this should be done outdoors and when the engine is cool.
- Wear strong work gloves when removing and reassembling the blade.
- Check the blade's balance after sharpening.
- For reasons of safety, do not use the equipment with worn or damaged parts. Parts are to be replaced and not repaired. Parts that are not of the same quality can damage the equipment and be dangerous for your safety.
- Whenever the machine is to be handled, transported or tilted you must:
 - wear strong working gloves;
 - grasp the machine at the points that offer a safe grip, taking account of the weight and its distribution.
- Damaged blades and worn bolts are major hazards.
- **Fuel goes off in about 3 - 4 months. If you find your mower does not start, try changing the fuel in the tank with newly purchased fuel.**

Operation safety instructions

WARNING: Stop the engine and unplug the spark plug before any repairs or maintenance operations.

- Check that all nuts, bolts and screws are well tightened before every use.
- Before mowing ensure that the blade and the blade fixing screw are securely fastened. When the blade edges require re-sharpening, this must be done evenly on both sides to prevent any imbalance. If the blade is damaged, it must be replaced.
- When mowing always wear long trousers and strong, covered footwear.
- Do not run the engine in an enclosed and/or poorly ventilated area. The gas of the engine contains carbon monoxide, which is dangerous to your health.
- Work only when there is sufficient light.
- Do not use the lawn mower when it is raining or when the grass is wet.
- Caution must be taken while mowing on slopes. Mow across the face of slopes, never down or up.
- Turn off the engine if you must leave the lawn mower unattended.
- Never lift the rear of the mower while starting the engine and never place your hands and feet underneath the deck while the engine is running.
- If working on high grass, adjust the mowing height to reduce the friction and prevent over loading. The optimal mowing height should be 1/3 the height of the grass. It would affect the work efficiency of lawn mower if too higher or lower.
- Never change the rated speed of the engine in any way .
- Never lift or carry the mower while the engine is running.
- Stop the engine and remove the spark plug cover in these cases:
 - Before any operation under the deck.
 - Before any maintenance, repairing or checking operations.

- Before carrying, lifting or removing the mower.
- If you leave the mower unattended or change the cutting height.
- After hitting a foreign object, stop the engine and check thoroughly the mower in order to see if it is damaged. Take the mower to an authorized service centre to carry out any repairs if necessary.
- If the mower vibrates in an abnormal way, take the mower to an authorized service centre.
- Check the bolts and nuts regularly. Bolts and nuts may vibrate loose over time.

WARNING: Fuel is highly flammable.

- Keep fuel in a jerry can specially made for this purpose.
- Fill the fuel tank with a funnel and outside. Do not smoke or use a mobile phone during this process.
- Fill with fuel and oil before starting the engine. Never open the cap of the fuel tank to add gasoline while the engine is running or still hot.
- Do not start the engine if there is spilt fuel on the mower or in the area surrounding. Take the mower away from the zone where fuel has been split and avoid any contact from a hot source as long as the split gasoline is completely evaporated.
- Tighten the fuel tank cap and jerry can cap tightly.

Unpacking

Due to modern mass production techniques, it is unlikely that your 909 Power Tool is faulty or that a part is missing. If you find anything wrong, do not operate the tool until the parts have been replaced or the fault has been rectified. Failure to do so could result in serious personal injury.

Contents of carton

- Handle bar locking knobs, (including 2 bolts)
- Spark Plug Wrench
- 50L Soft Grass Catcher

Know your product

1. Brake control handle
2. Throttle choke lever
3. Rope guide
4. Grass sack
5. Height adjusting lever
6. Fuel cap
7. Deck
8. Starter handle
9. Locking lever
10. Oil cap
11. Spark plug



6. Operating instructions

6.1 Before starting

Service the engine with gasoline and oil as instructed in the separate engine manual packed in your mower. Read instructions carefully.

WARNING: Petrol is highly flammable.

Store fuel in containers specifically designed for this purpose.

Refuel outdoors only, before starting the engine and do not smoke while refueling or handling fuel.

Never remove the cap of the fuel tank or add petrol while the engine is running or when the engine is hot.



If petrol is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until petrol vapors have dissipated.


Replace all fuel tanks and container caps securely.

Before tipping the lawn mower to maintain the blade or drain oil, remove fuel from tank.

WARNING: Never fill fuel tank indoors, with engine running or until the engine has been allowed to cool for at least 15 minutes after running.

6.2 To start engine and engage blade

1. The unit is equipped with a rubber boot over the end of the spark plug, make certain the metal loop on the end of the spark plug wire (inside the rubber boot) is fastened securely over the metal tip on the spark plug.
2. Before starting engine, please turn the fuel cock to the “” position. (Fig.9D)
3. When starting cool engine, turn throttle choke lever to “” position. (Fig.9A)

When starting warm engine and operating, turn throttle choke lever to “” position. (Fig.9B)

4. Standing behind the unit, grasp the brake control handle and hold it against the upper handle as shown in fig. 9C.

5. Grasp the starter handle as shown Fig. 9C and pull up rapidly. Return it slowly to the rope guide bolt after engine starts.

Release the brake control handle to stop the engine and blade.

Start the engine carefully according to instructions and with feet well away from the blade.

Do not tilt the lawn mower when starting the engine. Start the mower on a level surface, free of high grass or obstacles.

Keep hands and feet away from the rotating parts. Do not start the engine when standing in front of the discharge opening.



Fig. 9A

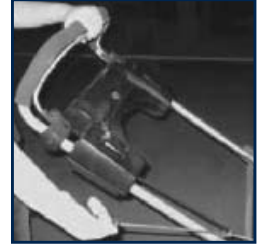


Fig. 9C



Fig. 9B



Fig. 9D

6.3 Operation procedures

During operation, tightly hold the brake handle with both hands.

Note: During operation, when the brake handle is released, the engine will stop and thus stopping the lawnmower from operating.

6.4 To stop engine

CAUTION: The blade continues to rotate for a few seconds after the engine is shut off.

1. Release the brake control handle to stop the engine and blade.
2. Disconnect and ground the spark plug wire as instructed in the separate engine manual to prevent accidental starting while equipment is unattended.

6.5 For the best results when mowing

Clear lawn of debris. Be sure that the lawn is clear of stones, sticks, wire or other foreign objects which could be accidentally thrown out by the mower in any direction and cause serious personal injury to the operator and others as well as damage to property and surrounding objects. Do not cut wet grass. For effective mowing do not cut wet grass because it tends to stick to the underside of the deck preventing proper mowing of the grass clippings. Cut no more than 1/3 the length of the grass. The recommended cut for mowing is 1/3 the length of the grass. Ground speed will need to be adjusted so the clippings can be dispersed evenly into the lawn. For especially heavy cutting in thick grass it may be necessary to use one of the slowest speeds in order to get a clean well mowed cut. When mowing long grass you may have to cut the lawn in two passes, lowering the blade another 1/3 of the length for the second cut and perhaps cutting in a different pattern than was used the first time. Overlapping the cut a little on each pass will also help to clean up any stray clippings left on the lawn. The mower should always be operated at full throttle to get the best cut and allow it to do the most effective job of mowing.

Clean underside of deck. Be certain to clean the underside of the cutting deck after each use to avoid a build-up of

grass, which would prevent proper mulching. Mowing leaves. The mowing of leaves can also be beneficial to your lawn. When mowing leaves make sure they are dry and are not laying too thick on the lawn. Do not wait for all the leaves to be off the trees before you mow.

WARNING: if you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage and repair the damage before restarting and operating the mower. Extensive vibration of the mower during operation is an indication of damage. The unit should be promptly inspected and repaired.

6.6 Grass catcher

There is a window on the rear cover. You can see the condition of grass catcher through the window. If the catcher is full of grass; you will empty and clean the bag, make sure it is clean and ensure its meshwork is ventilated. (Fig. 10)



Fig. 10

6.7 Deck

The underside of the mower deck should be cleaned after each use to prevent a buildup of grass clippings, leaves, dirt or other matter. If this debris is allowed to accumulate, it will invite rust and corrosion, and may prevent proper mulching. The deck may be cleaned by tilting the mower and scraping clean with a suitable tool (make certain the spark plug wire is disconnected).

6.8 Height adjustment instructions

CAUTION: Do not at any time make any adjustment to lawnmower without first stopping the engine and disconnecting the spark plug wire.

CAUTION: before changing mowing height, stop mower and disconnect spark plug cable.

Your mower is equipped with a central height adjustment lever offering 7 height positions.

1. Stop mower and disconnect spark plug cable before changing mower cutting height.
2. The central height adjustment lever offers you 7 different height positions.
3. To change the height of cut, squeeze adjuster lever toward the wheel, moving up or down to selected height. (Fig.11) All wheels will be in the same height of cut.



Fig. 11

7. Maintenance instructions

Spark plug

Use only original replacement spark plug. For best results, replace the spark plug every 100 hours of use.

8. Lubrication instructions

CAUTION: Disconnect spark plug before servicing.

1. Wheels-Lubricate the ball bearings in each wheel at least once a season with a light oil.
2. Engine-Follow engine manual for lubrication instructions.

9. Cleaning

CAUTION: Do not hose engine. Water can damage engine or contaminate the fuel system.

1. Wipe deck with dry cloth.
2. Hose under deck by tilting the mower so that the spark plug is up.

9.1 Engine air cleaner

CAUTION: Do not allow dirt or dust to clog the air filter foam element. The engine air cleaner element must be serviced (cleaned) after 25 hours normal mowing. The foam element must be serviced regularly if the mower is used in dry dusty conditions.

To clean air filter

1. Press down the two tabs on top of the filter cover.
 2. Remove cover.
 3. Wash filter element in soap water.
- DO NOT USE GASOLINE!**
4. Air dry filter element.
 5. Place a few drops of SAE30 oil on the foam filter and squeeze tightly to remove any excess oil.
 6. Reinstall filter.



Fig. 12 Filter cover

NOTE: Replace filter if frayed, torn, damaged or unable to be cleaned.

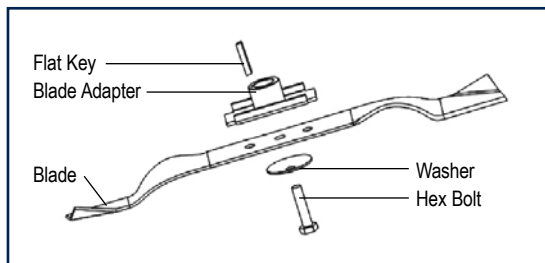
9.2 Cutting blade

CAUTION: Be sure to disconnect and ground the spark plug wire before working on the cutting blade to prevent accidental engine starting. Protect hands by using heavy gloves or a rag to grasp the cutting blades. Lip mower as specified in separate engine manual. Remove the hex bolt and washer which hold the blade and blade adapter to the engine crankshaft. Remove the blade and adapter from the crankshaft.

WARNING: Periodically inspect the blade adapter for cracks, especially if you strike a foreign object. Replace when necessary. For best results your blade should be sharp. The blade may be resharpened by removing it and either grinding or filing the cutting edge keeping as close to the original bevel as possible. It is extremely important that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. Improper blade balance will result in excessive vibration causing eventual damage to the engine and mower. Be sure to carefully balance blade after sharpening. The blade can be tested for balance by balancing it on a round shaft. sawdriver. Remove metal from the heavy side until it balances evenly.

Before reassembling the blade and the blade adapter to the unit, lubricate the engine crankshaft and the inner surface of the blade adapter with light oil. Install the blade adapter on the crankshaft. Refer to figure 13. Place the blade with the part number facing away from the adapter.

Align the washer over the blade and insert the hex bolt. Tighten the hex bolt to the torque listed below:



9.3 Blade mounting torque

Center Bolt 40Nm-50Nm. to insure safe operation of your unit. ALL nuts and bolts must be checked periodically for correct tightness.

After prolonged use, especially in sandy soil conditions, the blade will become worn and lose some of the original shape. Cutting efficiency will be reduced and the blade should be replaced. Replace with an approved factory replacement blade only. Possible damage resulting from blade unbalance condition is not the responsibility of the manufacturer.

When you change the blade, Must use the original type marked on the blade (26300100401 for DYM1773); (for order the blade, please contact your local dealer or call our company)

9.4 Engine

Refer to the separate engine manual for engine maintenance instructions. Maintain engine oil as instructed in the separate engine manual packed with your unit. Read and follow instructions carefully.

Service air cleaner as per separate engine manual under normal conditions.

Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air cleaner should be serviced.

To service the air cleaner, refer to the separate engine manual packed with your unit.

The spark plug should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specifications.

Clean the engine regularly with a cloth or brush. Keep the cooling system (blower housing area) clean to permit proper air circulation which is essential to engine performance and life. Be certain to remove all grass, dirt and combustible debris from muffler area.

| PROBLEM | PROBABLE CAUSE | CORRECTIVE ACTION |
|---|---|---|
| Engine does not start. | Throttle chock not in the correct position for the prevailing conditions. | Move throttle chock to correct position |
| | Fuel tank is empty. | Fill tank with fuel: refer to ENGINE OWNERS MANUAL. |
| | Air cleaner element is dirty. | Clean air cleaner element: refer to ENGINE OWNERS MANUAL |
| | Spark plug loose. | Tighten spark plug to 25-30 Nm. |
| | Spark plug wire loose or disconnected from plug. | Install spark plug wire on spark plug. |
| | Spark plug gap is incorrect. | Set gap between electrodes at 0.7 to 0.8mm |
| | Spark plug is defective | Install new, correctly gapped plug: refer to ENGINE OWNERS MANUAL |
| | Carburetor is flooded with fuel | Remove air cleaner element and pull starter rope continuously until carburetor clears itself and install air cleaner element. |
| Engine difficult to start or loses power. | Faulty ignition module | Contact the service agent. |
| | Dirt, water, or stale fuel tank. | Drain fuel and clean tank. Fill tank with clean, fresh fuel |
| | Vent hole in fuel tank cap is plugged. | Clean or replace fuel tank cap. |
| Engine operates erratically. | Air cleaner element is dirty. | Clean air cleaner element. |
| | Spark plug is defective. | Install new, correctly gapped plug: refer to ENGINE OWNERS MANUAL |
| | Spark plug gap is incorrect. | Set gap between electrodes at 0.7 to 0.8mm |
| Engine idles poorly. | Air cleaner element is dirty. | Clean air cleaner element: refer to ENGINE OWNERS MANUAL |
| | Air slots in engine shroud are blocked. | Remove debris from shots. |
| | Cooling fins and air passages under engine blower housing are blocked. | Remove debris from cooling fins and air passages. |
| Engine idles poorly. | Gap between electrodes of spark plug is too close. | Set gap between electrodes at 0.7 to 0.8mm |
| Engine overheats | Cooling air flow is restricted. | Remove any debris from slots in shroud, blower housing, air passages |
| | Incorrect spark plug. | Install BPR4ES spark plug and cooling fins on engine |
| Mower vibrates abnormally | Cutting assembly is loose. | Tighten blade |
| | Cutting assembly is unbalanced | Balance blade. |

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