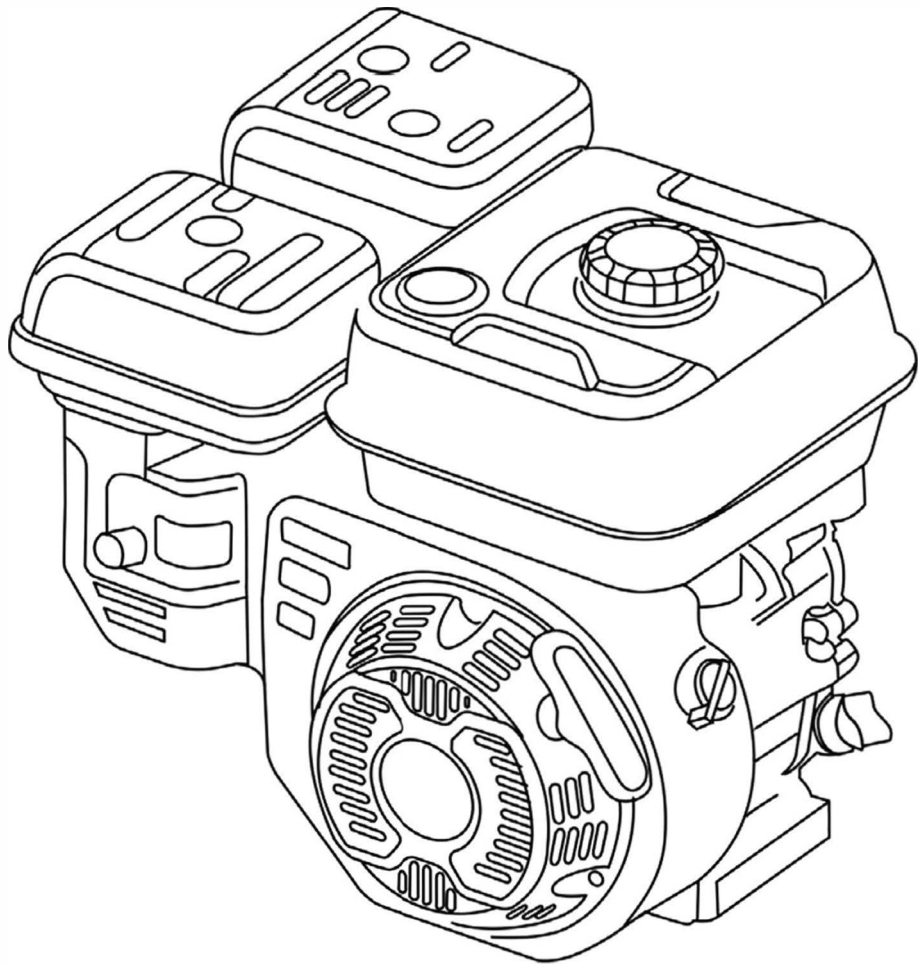


# JPE ENGINE OWNER'S MANUAL



LOCATED AT:

61 Scott St, Warracknabeal | (03) 5394 1020

31 Carngham Road, Delacombe | (03) 5303 0264

OR FOR ONLINE ORDERS

[www.chainsawspares.com.au](http://www.chainsawspares.com.au) | (03) 5303 0263



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**Thank you for purchasing a Jono & Johno engine.**





All the information in this publication is based on the latest product information provided at the time of printing.

We reserves the right to make changes at any time without notice and without incurring any obligation.

No part of this publication may be reproduced without written permission.

This manual should be considered a permanent part of the engine and should remain with the engine if it is resold.

**READ THIS OWNER'S MANUAL CAREFULLY.** Pay special attention to these symbols and any instructions that follow:

<b>WARNING SYMBOLS</b>	
 <b>DANGER</b>	Indicates serious injury or death will result if instructions are not followed.
 <b>WARNING</b>	Indicates a strong possibility that serious injury or death could result if instructions are not followed.
 <b>CAUTION</b>	Indicates a strong possibility that serious injury or death could result if instructions are not followed.
 <b>NOTICE</b>	Indicates that equipment or property damage can result if instructions are not followed.

**NOTE: Gives helpful information.**

If a problem should arise, or if you have any questions about your engine, consult your engine dealer.

## ENGINE SAFETY

Engines are designed to give safe and dependable service if operated according to instructions. Read and understand this Owner's Manual before operating the engine. Failure to do so could result in personal injury or equipment damage.

To prevent fire hazards and to provide adequate ventilation, keep the engine at least 1 meter away from buildings and other equipment during operation. Do not place flammable objects close to the engine.

Children and pets must be kept away from the operating area due to the risk of burns from high-temperature engine parts or any equipment the engine may use for operation.

Know how to stop the engine quickly, and understand the operation of all controls. Never permit anyone to operate the engine without proper instructions.

Gasoline is extremely flammable and is explosive under certain conditions. Refuel in a well-ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the refueling area or where gasoline is stored.

Do not overfill the fuel tank. After refueling, make sure the tank cap is closed properly and securely.

Be careful not to spill fuel when refueling. Fuel vapor or spilled fuel may ignite. If any fuel is spilled, make sure the area is dry before starting the engine.

Never run the engine in an enclosed or confined area. Exhaust contains poisonous carbon monoxide gas; exposure may cause loss of consciousness and may lead to death.







The muffler becomes very hot during operation and remains hot for a while after stopping the engine.

# ENGINE SAFETY

Pay attention to these labels before you operate the engine.

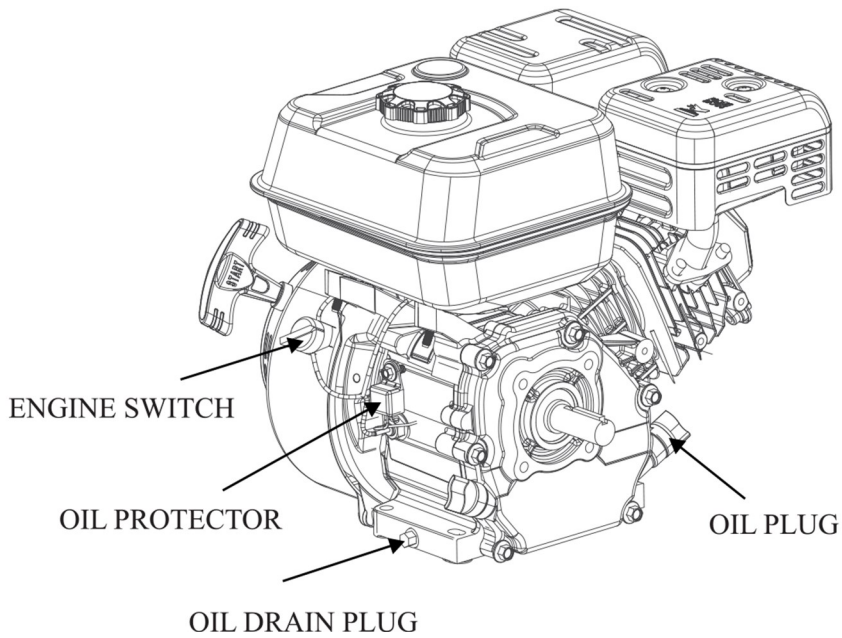
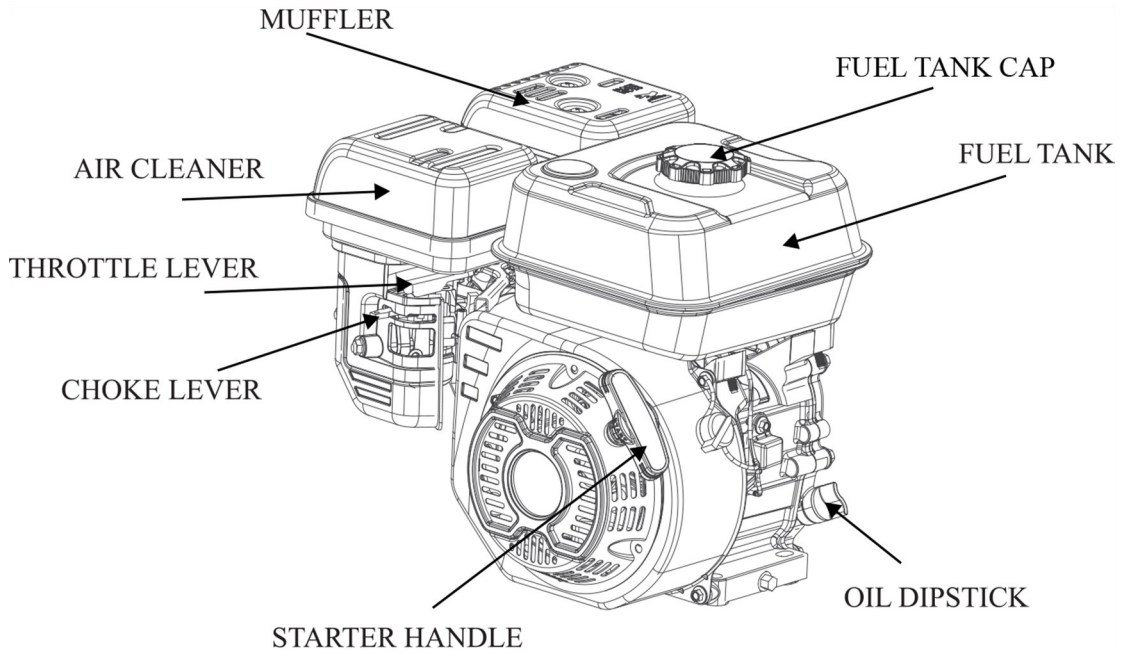
## GASOLINE WARNING LABEL



Key to legend	
	Reading instructions
	Caution
	Fire prevention
	Anti-explosion
	Antivirus
	Anti-scald

# INTRODUCTION

## Component Identification



# INTRODUCTION

## Specification

Model	JPE65	JPE7	JPE9
<b>Bore×Stroke(MM)</b>	68×54	70×55	77×58
<b>Displacement(CC)</b>	196	212	270
<b>Compression Ratio</b>	8.7:1	8.7:1	8.5:1
<b>Horse power</b>	6.5	7	9
<b>Net Torque(N.m/Rpm)</b>	11/2500	12/2500	18/2500
<b>PTO shaft rotation</b>	Counter clock wise		
<b>Ignition system</b>	Transistorized magneto ignition		
<b>Lubrication system</b>	Forced splash		
<b>Carburetor</b>	Flat suction valve carburetor		
<b>Governor system</b>	Centrifugal mechanical		
<b>Engine Type</b>	Forced air-cooling,4-stroke,OHV		
<b>Starting System</b>	Recoil/Electric Start		
<b>Fuel Tank Capacity(L)</b>	3.6	3.6	6
<b>Engine Oil Capacity(L)</b>	0.55	0.55	0.95
<b>Fuel Consumption(g/Kw.h)</b>	≤380	≤380	≤374
<b>Dimension(L×W×H MM)</b>	390×320×345	390×320×345	420×395×430
<b>Net Weight(Kg)</b>	15/17	15/17	26/29



# INTRODUCTION

## Specification

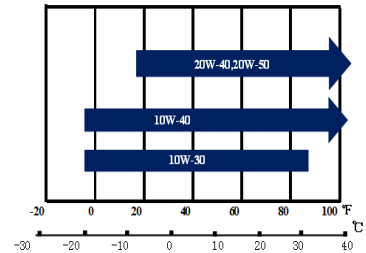
Model	JPE13	JPE16	JPE18
<b>Bore×Stroke(MM)</b>	88×64	90×66	92×69
<b>Displacement(CC)</b>	389	420	456
<b>Compression Ratio</b>	8.5:1	8.5:1	8.5:1
<b>Horse power</b>	13	16	18
<b>Net Torque(N.m/Rpm)</b>	25/2500	26.5/2500	29/2500
<b>PTO shaft rotation</b>	Counter clock wise		
<b>Ignition system</b>	Transistorized magneto ignition		
<b>Lubrication system</b>	Forced splash		
<b>Carburetor</b>	Flat suction valve carburetor		
<b>Governor system</b>	Centrifugal mechanical		
<b>Engine Type</b>	Forced air-cooling,4-stroke,OHV		
<b>Starting System</b>	Recoil/Electric Start		
<b>Fuel Tank Capacity(L)</b>	6.5	6.5	6.5
<b>Engine Oil Capacity(L)</b>	1.1	1.1	1.1
<b>Fuel Consumption(g/Kw.h)</b>	≤374	≤374	≤374
<b>Dimension(L×W×H MM)</b>	465×415×440	465×415×440	465×415×440
<b>Net Weight(Kg)</b>	30.5/33.5	31/34	32.5/35.5

# OPERATIONS

## Pre-operation Check

### 1. Engine Oil

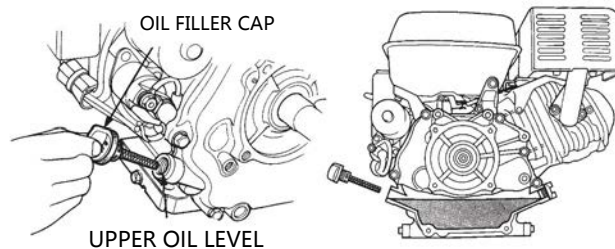
Use 4 -stroke oil. SAE 10W-30 is recommended for general, all-temperature use. Other viscosities shown in the chart may be used when the average temperature in your area is within the indicated range.



Remove the oil filler cap and wipe the dipstick clean.

Insert the dipstick into the oil filler neck, but do not screw it in.

If the level is low, fill to the top of the oil filler neck with the recommended oil.



### 2. Air Cleaner



#### NOTICE

Never run the engine without the air cleaner. Rapid engine wear will result from contaminants, such as dust and dirt, being drawn through the carburetor and into the engine.

## OPERATIONS

Check the air cleaner elements to be sure they are clean and in good condition. Clean or replace the elements if necessary.

### 3.Fuel

Your engine is designed to use any gasoline that has a pump octane number of 86 or higher, or that has a research octane number of 91 or higher. Gasoline pumps at service station normally display the pump octane number.

We recommend that you use lead-free fuel because it can reduce engine and spark plug deposits and extend the life of exhaust system components.

Never use stale or contaminated gasoline or an oil/gasoline mixture. Avoid getting dirt, dust or water in the fuel tank. Use of a lower octane gasoline can cause persistent "pinging" or heavy "spark knock" which, if severe, can lead to engine damage.



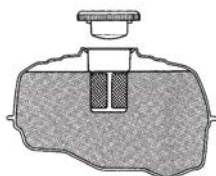
### NOTICE

If "spark knock" or "pinging" occurs at a steady engine speed under normal load, change brands of gasoline. If spark knock or pinging persists, consult your authorized dealer. Failure to do so is considered misuse, and damage caused by misuse is not covered by warranty.



### WARNING

- ◇ Gasoline is extremely flammable and is explosive under certain conditions. Refuel in a well-ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area where the engine is refueled or where gasoline is stored.
- ◇ Do not overfill the fuel tank (there should be no fuel in the filler neck). After refueling, make sure the tank cap is closed properly and securely.
- ◇ Be careful not to spill fuel when refueling. Spilled fuel or fuel vapor may ignite. If any fuel is spilled, make sure the area is dry before starting the engine.
- ◇ Avoid repeated or prolonged contact with skin or breathing of vapor.
- ◇ KEEP OUT OF REACH OF CHILDREN.



Occasionally you may experience light spark knock while operating under heavy loads. This is no cause for concern; it simply means your engine is operating efficiently.

# OPERATIONS

Fuel Tank capacity	
JPE65	3.6 L
JPE7	3.6 L
JPE75	3.6 L
JPE9	6 L
JPE13	6.5 L
JPE16	6.5 L
JPE18	6.5 L

## GASOLINES CONTAINING ALCOHOL

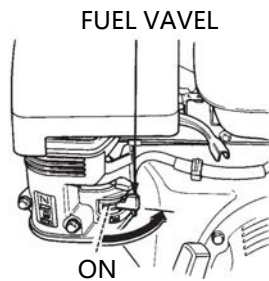
If you decide to use a gasoline containing alcohol (gasohol), be sure its octane rating is at least as high as that recommended by . There are two types of "gasohol": one containing ethanol, and the other containing methanol. Do not use gasohol that contains more than 10% ethanol. Do not use gasoline containing methanol (methyl or wood alcohol) that does not also contain cosolvents and corrosion inhibitors for methanol. Never use gasoline containing more than 5% methanol, even if it has cosolvents and corrosion inhibitors.

Fuel system damage or engine performance problems resulting from the use of fuels that contain alcohol is not covered under the warranty. cannot endorse the use of fuels containing methanol since evidence of their suitability is as yet incomplete.

Before buying fuel from an unfamiliar station, try to find out if the fuel contains alcohol, if it does, confirm the type and percentage of alcohol used. If you notice any undesirable operating symptoms while using a gasoline that contains alcohol, or one that you think contains alcohol, switch to a gasoline that you know does not contain alcohol.

# OPERATIONS

## Start The Engine

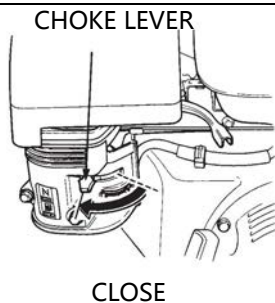


⇒ Turn the fuel valve to the ON position.

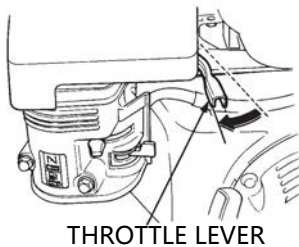


### NOTICE

The choke may not be needed if the engine is warm or the air temperature is high.



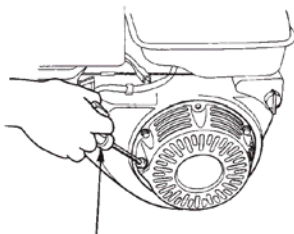
⇒ Move the choke lever to the CLOSE position.



⇒ Move the throttle lever slightly to the left.

⇒ Start the engine.

- With recoil starter: Turn the engine switch to the ON position.
- Pull the starter grip lightly until resistance is felt, then pull briskly.



⇒ As the engine warms up, gradually move the choke lever to the OPEN position.

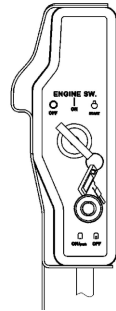
⇒ Position the throttle lever for the desired engine speed.

# OPERATIONS

## Electric start

Turn the engine switch to the “START” position, and hold it there until the gasoline engine starts. When the engine starts, allow the engine switch to return to the “ON” position.

ENGINE SWITCH



### NOTICE

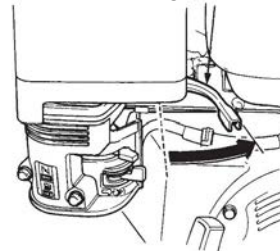
**Do not use the starter for more than 5 seconds or starter motor damage may occur. If the engine fails to start, release the switch and wait 10 seconds before operating the starter again.**

## Stop The Engine

To stop the engine in an emergency, turn the engine switch to the OFF position. Under normal conditions, use the following procedure:

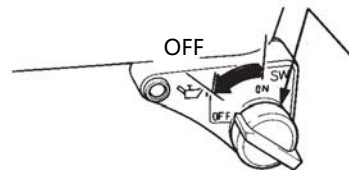
Move the throttle lever fully to the right.

THROTTLE LEVER



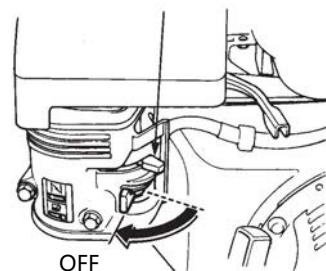
Turn the engine switch to the OFF position.

ENGINE SWITCH



Turn the fuel valve to the OFF position.

FUEL VALVE



## TRANSPORTING&STORAGE

To avoid severe burns or fire hazards, let the engine cool before transporting it or storing it indoors. When transporting the engine, turn the fuel valve to the OFF position and keep the engine level to prevent fuel spillage. Fuel vapor or spilled fuel may ignite.



### WARNING

To avoid severe burns or fire hazards, let the engine cool before transporting it or storing it indoors. When transporting the engine, turn the fuel valve to the OFF position and keep the engine level to prevent fuel spillage. Fuel vapor or spilled fuel may ignite.

Before storing the unit for an extended period;

1. Be sure the storage area is free of excessive humidity and dust.
2. Drain the fuel.



### WARNING

Gasoline is extremely flammable and is explosive under certain conditions. Do not smoke or allow flames or sparks in the area.

3. Change the engine oil.

4. Remove the spark plug and pour about a tablespoon of clean engine oil into the cylinder. Crank the engine several revolutions to distribute the oil, and then reinstall the spark plug.

5. Pull the starter rope slowly until resistance is felt. Continue pulling until the notch on the starter pulley aligns with the hole on the recoil starter (see illustration below). At this point, the intake and exhaust valves are closed, and this will help to protect the engine from internal corrosion .

6. Cover the engine to keep out dust.

# SERVICE

## Maintenance

Periodic maintenance and adjustment is necessary to keep the engine in good operating condition. Perform the service and inspection scheduled in the following table.



### WARNING

Shut off the engine before performing any maintenance. If the engine must be run, make sure the area is well ventilated. The exhaust contains poisonous carbon monoxide gas; exposure can cause loss of consciousness and may lead to death.



### NOTICE

Use only genuine parts or their equivalent. The use of replacement parts which are not of equivalent quality may damage the engine.

#### ◊ Maintenance Schedule

Maintenance Schedule							
ITEM	PERIOD	Each Use	3 Hours	25 Hours	50 Hours	100 Hours	300 Hours
Check Oil Level	Check	●					
	Change		●			●	
Reduction Gear Oil	Check	●					
	Change			●			●
Air Cleaner	Check	●					
	Change				●		
Sediment Cup	Clean					●	
Spark Plug	Clean					●	
Spark Arrerster	Clean					●	
Valve Clearance	Check						●
Fuel Tank Strainer	Clean						●
Fuel Line	Check	Every 2 Years					

NOTE: **(1) First Oil Change Only After Three Hours.**

(2) Service more frequently when used in dusty areas.

(3) These items should be serviced by an authorized dealer, unless the owner has the proper tools and is mechanically proficient. See the Shop Manual.

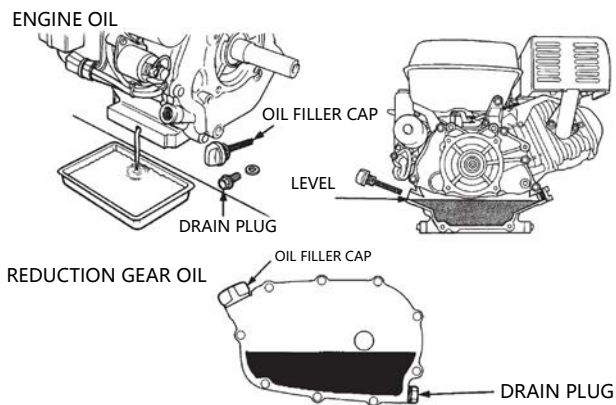


# SERVICE

## 1. Change Oil

Drain the oil while the engine is still warm to assure rapid and complete draining.

1. Remove the oil filler cap and drain plug to drain the oil.
2. Install the drain plug, and tighten it securely.
3. Refill with the recommended oil, and check the oil level.



Engine Oil capacity	
JPE65	0.55 L
JPE7	0.55 L
JPE75	0.55 L
JPE9	0.95 L
JPE13	1.1 L
JPE16	1.1 L
JPE18	1.1 L

4. Install the oil filler cap.



### NOTICE

Used motor oil may cause skin cancer if repeatedly left in contact with the skin for prolonged periods. Although this is unlikely unless you handle used oil on a daily basis, it is still advisable to thoroughly wash your hands with soap and water as soon as possible after handling used oil.

NOTE: Please dispose of used motor oil in a manner that is compatible with the environment. Do not throw it in the trash or pour it on the ground.

## SERVICE

### 2. Air Cleaner Service

A dirty air cleaner will restrict air flow to the carburetor. To prevent carburetor malfunction, service the air cleaner regularly. Service more frequently when operating the engine in extremely dusty areas.



### WARNING

Never use gasoline or low flash point solvents for cleaning the air cleaner element. A fire or explosion could result.

1. Unscrew the wing nut, remove the air cleaner cover and remove the element.

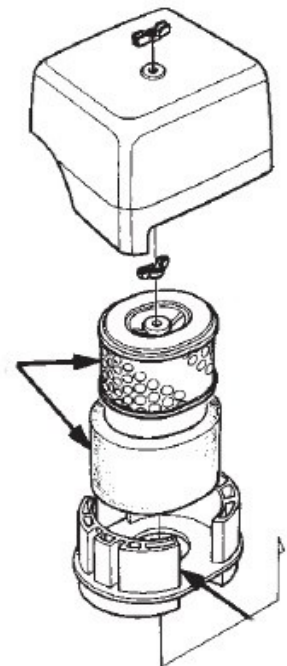
2. Wash the element in a solution of household detergent and warm water, then rinse thoroughly, or wash in nonflammable or high flash point solvent. Allow the element to dry thoroughly.

3. Soak the element in clean engine oil and squeeze out the excess oil. The engine will smoke during initial start-up if too much oil is left in the element.

4. Reinstall the air cleaner element and the cover.

Air cleaner cover

Paper & Foam element



### NOTICE

Never run the engine without the air cleaner. Rapid engine wear will result from contaminants, such as dust and dirt, being drawn through the carburetor, into the engine.

## SERVICE

### 3.Sediment Cup Cleaning



#### WARNING

Gasoline is extremely flammable and is explosive under certain conditions. Do not smoke or allow flames or sparks in the area.

After installing the sediment cup, check for leaks, and make sure the area is dry before starting the engine.

Turn the fuel valve to OFF. Remove the sediment cup and O-ring, and wash them in nonflammable or high flash point solvent. Dry them thoroughly, and reinstall securely. Turn the fuel valve ON, and check for leaks.

### 4.Spark Plug Service



#### WARNING

Use only the recommended spark plugs or equivalent. Spark plugs which have an improper heat range may cause engine damage.

To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

- ◇ Remove the spark plug cap, and use a spark plug wrench to remove the plug.
- ◇ Visually inspect the spark plug. Discard it if the insulator is cracked or chipped. Clean the spark plug with a wire brush if it is to be reused.
- ◇ Measure the plug gap with a feeler gauge. The gap should be 0.7-0.8 mm (0.028-0.031 in).
- ◇ Check that the spark plug washer is in good condition, and thread the spark plug in by hand to prevent cross-threading.
- ◇ After the spark plug is seated, tighten with a spark plug wrench to compress the washer.

#### Recommended spark plug:

Spark plug types:	
JPE65	NGK BPR6ES
JPE7	
JPE75	
JPE9	
JPE13	
JPE16	
JPE18	

## SERVICE



### WARNING

If the engine has been running, the muffler will be very hot. Be careful not to touch the muffler.

NOTE: If installing a new spark plug, tighten 1/2 turn after the spark plug seats to compress the washer. If reinstalling a used spark plug, tighten 1/8-1/4 turn after the spark plug seats to compress the washer .



### NOTICE

The spark plug must be securely tightened. An improperly tightened spark plug can become very hot and may damage the engine.

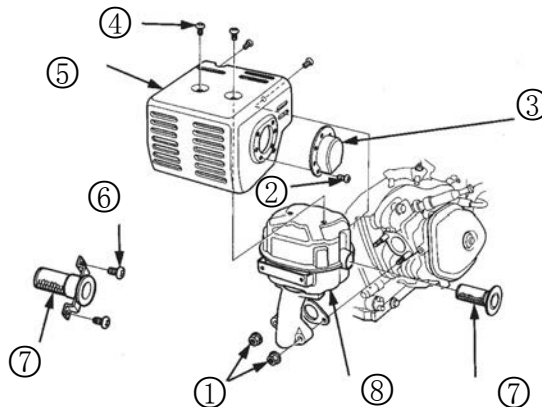
### 5. Spark Arrester Maintenance (Optional Parts )

The muffler becomes very hot during operation and remains hot for a while after stopping the engine. Be careful not to touch the muffler while it is hot. Allow it to cool before proceeding.



### NOTICE

Be careful not to damage the spark arrester screen.



1. Remove the two 8 mm nuts ① and remove the muffler from the cylinder.
2. Remove the three 4 mm screws ② from the exhaust deflector ③ , and remove the deflector.
3. Remove the four 5 mm screws ④ from the muffler protector ⑤ , and remove the muffler protector.
4. Remove the 4 mm screw ⑥ from the spark arrester (optional) ⑦ , and remove the spark arrester from the muffler ⑧

# SERVICE

## Warranty Service Trouble Shooting

Please contact Jono & Johnno for any warranty questions.

PROBLEM	POSSIBLE CAUSES	PROBABLE SOLUTIONS
<b>Engine will not start</b>	1.Out of fuel 2.Engine flooded	1.Add fuel to tank 2. <b>Gasoline engine:</b> set choke( if equipped) to OPEN/RUN position, and continue to pull starter handle.
<b>Engine stops suddenly</b>	1.Low oil shutdown 2. Fuel tank empty or full of impure or low quality gasoline.	1. Fill engine oil to proper level. 2. Fill fuel tank with fresh 90+ gasoline.
<b>Engine knocks</b>	1. Engine overloaded.	1. Do not exceed equipment`s load rating.

# SERVICE

## Warranty Service

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