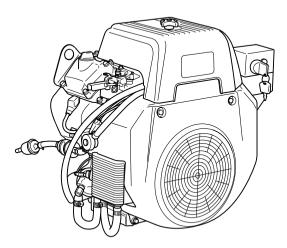


Industrial Power Products

EH72 FI

US INSTRUCTIONS FOR USE FR MANUEL D'UTILISATION

ES MANUAL DE INSTRUCCIONES



2ZZ9990197 (英・仏・西)

OHV Gasoline Engines

(California Proposition 65)

A

WARNING:

Â

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

(California only)

AIR INDEX

To show compliance with California emission regulations, a hangtag has been provided displaying the Air Index level and durability period of this engine.

The Air Index level defines how clean an engine's exhaust is over a period of time. A bar graph scaled from "0" (most clean) to "10" (least clean) is used to show an engine's Air Index level. A lower Air Index level represents cleaner exhaust from an engine.

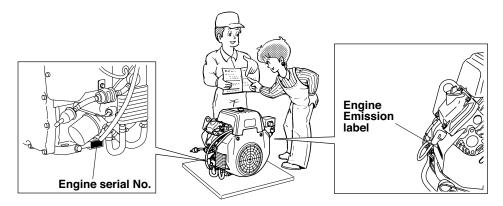
The period of time (in hours) that the Air Index level is measured is known as the durability period. Depending on the size of the engine, a selection of time periods can be used to measure the Air Index level (see below).

Descriptive Term	Applicable to Emissions Durability Period
Moderate -	50 hours (engine from 0 to 80 cc) 125 hours (engine greater than 80 cc)
Intermediate -	125 hours (engine from 0 to 80 cc) 250 hours (engine greater than 80 cc)
Extended -	300 hours (engine from 0 to 80 cc) 500 hours (engine greater than 80 cc) 1000 hours (225 cc and greater)
i ce : This hangtag mi	ust remain on this engine or piece of equipr

- **Notice :** This hangtag must remain on this engine or piece of equipment, and only be removed by the ultimate purchaser before operation.
- Notice : FEDERAL EMISSION COMPONENT DEFECT WARRANTY and CALIFORNIA EMISSION CONTROL WARRANTY are applicable to only those engines/ generators complied with EPA (Environmental Protection Agency) and CARB (California Air Resources Board) emission regulations in the U.S.A.
- Notice : To the engines/generators exported to and used in the countries other than the U.S.A., warranty service shall be performed by the distributor in each country in accordance with the standard SUBARU engine/generator warranty policy as applicable.

FOREWORD

Thank you very much for purchasing a **SUABRU ENGINE**.



Your SUBARU ENGINE can supply the power to operate various sorts of machines and equipment.

Please take a moment to familiarize yourself with the proper operation and maintenance procedures in order to maximize the safe and efficient use of this product.

Due to constant efforts to improve our products, certain procedures and specifications are subjected to change without notice.

When ordering spare parts, always give us the MODEL, SPECIFICATION and SERIAL NUMBER of your engine. Please fill in the following blanks after checking the specification number on your engine.

SPEC NO.	Ε	Η							
SERIAL NO.									

For your nearest distributor (and/or dealer), you are able to check at our website of the following URL;

http://www.subaru-robin.jp

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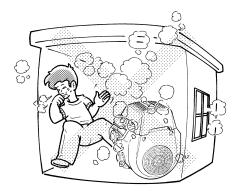
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SYMBOLS

	Read manual.				Shutt off f when the o	uel valve engine is not in use.	
	⇒¶ Stay clear of th	ne hot surfa	ce.		Check for leakage from hose and fittings.		
	★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★★				Fire, open prohibited	flame and smoking I.	
	Stop the engine before refueli			\otimes	HOT, avoid touching the hot area		
USA and	CANADA only						
	Read INSTRUCTIONS FOR USE before use.			The engine emits toxic gas can kill you in minutes. Do not run in an enclosed area.			
Je Ci	Gasoline is extremely flammable and its vapors can explode. Stop the engine before refueling. Check for leakage from hoses and fittings. Shut off fuel valve when the engine is not in use. 						
	On (Run)	\bigcirc	Engine start (Electric start)			Fuel (gasoline)	
Ο	Off (Stop)	STOP	Engine stop		副	Fuel (diesel)	
9 <u>-</u> 7.	Engine oil		Cold engine		B	Fuel shut-off	
	Add oil		Warm engine		<u>[]</u>	Fuel system failure / malfunction	
÷ •	Battery	3	Electrical preheat (Low tem-perature start aid)		$\left \right\rangle$	Choke	
٠	Fast	∅⊄	Run position		+	Plus ; positive polarity	
	Slow		Sto	o position		Minus ; negative polarity	
<u>*</u> +	Primer "-		Push primer		8	Do not push primer	
2X	Two times						

1. SAFETY PRECAUTIONS

Please make sure you review each precaution carefully.



EXHAUST PRECAUTIONS

- Never inhale exhaust gas. It contains carbon monoxide, a colorless, odorless and extremely dangerous gas which can cause unconsciousness or death.
- Never operate the engine indoors or in a poorly ventilated area, such as tunnel, cave, etc.
- Exercise extreme care when operating the engine near people or animals.
- Keep the exhaust pipe free of foreign objects.

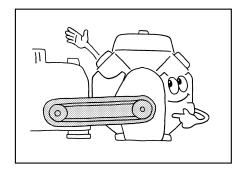
REFUELING PRECAUTIONS

- Be sure to stop the engine prior to refueling.
- Do not overfill the fuel tank.
- If fuel is spilt, wipe it away carefully and wait until the fuel has dried before starting the engine.
- After refueling, make sure that the fuel cap is secured to prevent spillage.

FIRE PREVENTION

- Do not operate while smoking or near an open flame.
- Do not use around dry brush, twigs, cloth rags, or other flammable materials.
- Keep the engine at least 3 feet (1 meter) away from buildings or other structures.
- Keep the engine away from flammables and other hazardous materials (trash, rags, lubricants, explosives).





PROTECTIVE COVER

Place the protective covers over the rotating parts.

If rotating parts such as the drive shaft, pulley, belt, etc. are left exposed, they are potentially hazardous.

To prevent injury, equip them with protective covers or shrouds.

Be careful of hot parts.

The muffler and other engine parts become very hot while the engine is running or just after it has stopped. Operate the engine in a safe area and keep children away from the running engine.

- Never make adjustments on the machinery while it is connected to the engine, without first removing the ignition cable from the spark plug. Turning the crankshaft by hand during adjusting or cleaning might start the engine, and the machinery with it, causing serious injury to the operator.
- Never run the engine with governor disconnected, or operate at speeds in excess of 3600 rpm load.

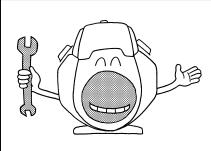
SURROUNDINGS

Operate the engine on a stable, level surface free of small rocks, loose gravel, etc.

NOTE

Operating the engine at a steep incline may cause seizure due to improper lubrication even with a maximum oil level.





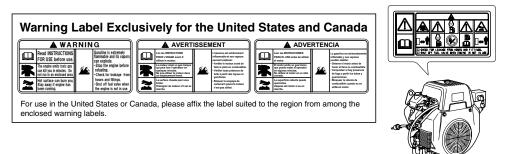
- Drain the fuel when transporting the engine.
- Do not move the engine while in operation when it has been removed from the equipment.
- Keep the unit dry (do not operate it in rainy conditions).

PRE-OPERATION CHECKS.

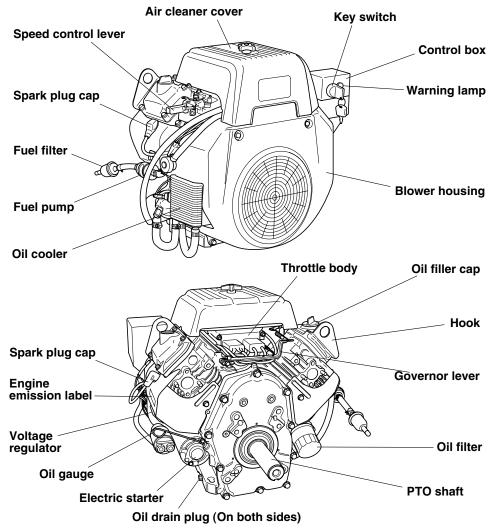
- Carefully check fuel hoses and connections for looseness and fuel leakage. Leaking fuel creates a potentially dangerous situation.
- Check bolts and nuts for looseness. A loose bolt or nut may cause serious engine trouble.
- Check the engine oil daily and refill if necessary.
- Check the fuel level and refill if necessary. Do not overfill the tank.
- Wear snug fitting working clothes when operating the engine.
 Loose aprons, towels, belt, etc., may be caught in the engine or drive train, causing a dangerous situation.

PRECAUTIONS ON THE HANDLING OF THE WARNING LABEL

Warning labels are affixed to our engines with regard to particularly serious dangers. When using the engines, please use them safely after carefully reading the instruction manual and understanding the dangers.



2. COMPONENTS

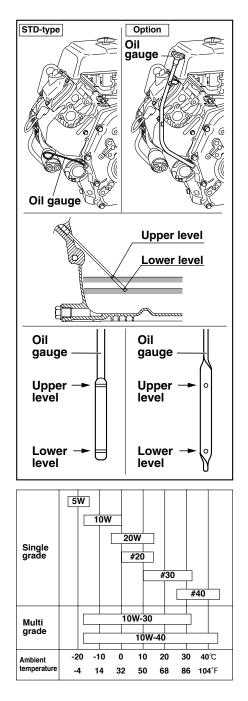


REMARKS :

- Fuel tank, valve (sediment bowl type is recommended), fuel hoses, and fuel filter are required for connecting fuel source to throttle body.
- A battery rated at 12V-36AH or larger with the specified cable are required for electric starter operation. Make the proper electrical wiring arrangements before normal engine operation.

(See Section 4 Battery Installation for instructions.)

3. PRE-OPERATION CHECKS



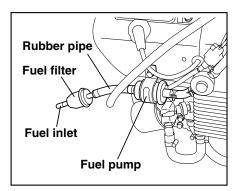
CHECK ENGINE OIL (DAILY)

Before checking or refilling engine oil, be sure the engine is not running and is located on a stable, level surface.

If the oil level is below the lower level line on the oil gauge, refill with the proper oil (see table) to the upper level.

OIL CAPACITY : 1.55 liter

- When filling oil in the engine, keep the engine level and fill the oil up to the upper mark of the oil gauge. Measure the oil level with the oil gauge plugged in position.
- After an oil change, run the engine, and recheck the oil level. The oil level may drop a little as the oil fills the oil filter. Fill the oil up to the upper mark of the oil gauge.
- Change oil if it is contaminated.
 (See Section 8 Maintenance Schedule.)
- Use 4-stroke automotive detergent oil of API service class SE or higher grade (SG, SH or SJ is recommended).
- If multi-grade oil is used, oil consumption tends to increase when the ambient temperature is high.



CHECK FUEL

Do not refuel while smoking, near an open flame or other potential hazards.

NOTE :

THIS ENGINE IS CERTIFIED TO OPERATE ON AUTOMOTIVE UNLEADED GASOLINE.

The fuel tank shall be provided separately, because the engine is not equipped with a fuel tank.

A fuel valve and fuel filter should be connected between the fuel tank and fuel pump.

Securely connect with fuel hoses to the fuel pump to prevent leakage.

■ Fuel tanks may be mounted up to 0.66 meters (2 feet) below the throttle body.

If the fuel tank is mounted above the throttle body, a fuel shut off valve must be connected between the fuel tank and fuel pump. The fuel valve must be shut off when the engine is not operating to prevent fuel from flooding the throttle body.

- A serious accident may occur if the fuel hose comes off. Properly secure the fuel line connections by completely inserting the hose onto the fittings and securing the connection with a hose clamp.
- Use unleaded automotive gasoline only.
 - Unleaded regular/premium or reformulated gasoline containing no more than 10% Ethanol (E10), or 15% MTBE may also be used.
 - Never use gasoline containing ethanol exceeding 10%, or MTBE exceeding 15% because engine or fuel system damage could result.
 - Never use stale or contaminated gasoline.
 - Use of these non-recommended fuels may result in reduced performance and/or denial of warranty.
- Stop the engine and close the fuel valve before filling the fuel tank.
- Wipe off any spilled fuel before starting the engine.

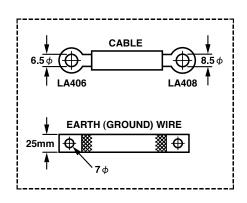
4. BATTERY INSTALLATION

For electric starter operation, proper electric wiring arrangements are needed before normal engine operation.



PARTS NEEDED

- Use a battery rated 12V-36AH or larger.
- Use a proper cable and ground wire to connect battery and key switch and electric starter.



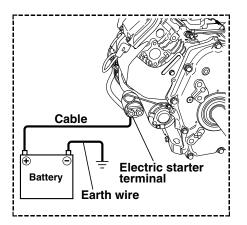
BATTERY CABLE

CABLE	CABLE	WIRE GAUGE				
LENGTH	DIA.	AWG (BS) BWG	SAE	JIS		
Less than 1.5 m	7.3 mm	1	6	AV15		
1.5 m to 2.5 m	8.5 mm	0	4	AV20		
2.5 m to 4.0 m	10.8 mm	3/0	2	AV30		

GROUND WIRE, use a flat braided wire of 0.03 sq. in. or larger sectional area. (SAE GAUGE 4)

KEY SWITCH CABLE

CABLE	CABLE	WIRE GAUGE				
LENGTH	DIA.	AWG (BS)	BWG	JIS		
Less than 1.5 m	1.5 mm	14	16	AV1.25		
1.5 m to 3.0 m	1.9 mm	12	14	AV2		
3.0 m to 5.0 m	2.4 mm	10	13	AV3		



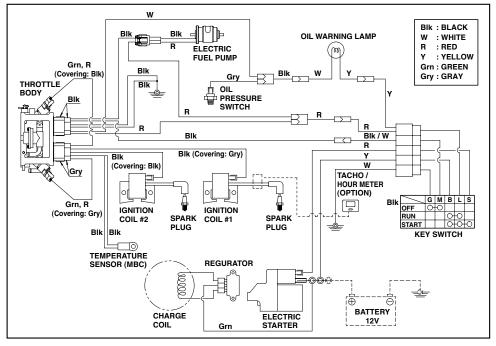
WIRING DIAGRAM

WIRING

- Connect positive terminal of electric starter and positive terminal of the battery with battery cable.
- Ground negative terminal of the battery to the body of engine or machine with ground wire.

NOTE

Tighten bolts and nuts on terminals securely so they will not be loosened by vibration.



Optional hardware shown by dotted lines. Select wires of proper gauge and connect battery as shown by the dotted line in the wiring diagram.

5. OPERATING YOUR ENGINE

NOTE

Following operating method is for the STD type speed control lever. As to the fixed type speed control lever (exp. Generator spec.), do not move it otherwise the generator component such as voltage regulator may be damaged.

STARTING

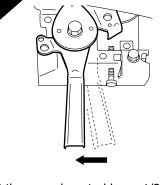
FUEL VALVE

(Provided by the equipment manufacturer)

Open the fuel valve.

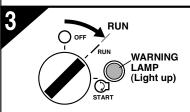
2

SPEED CONTROL LEVER



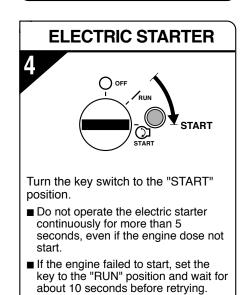
Set the speed control lever 1/3 of the way towards the high speed position.

ELECTRIC STARTER



If there is a control box mounted, turn the key switch and set it to the "RUN" position. Check to make sure that the warning and other lights illuminate (red).

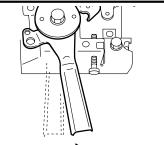
■ When the key switch is set to the drive position (RUN) the operating noise of the fuel pump may be audible for two or three seconds (this is not a malfunction).



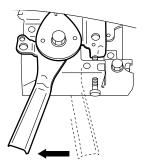
Never turn the key switch to the "START" position while engine is running.

RUNNING

SPEED CONTROL LEVER



After the engine starts, set the speed control lever at the low speed position and warm it up without load for a few minutes.



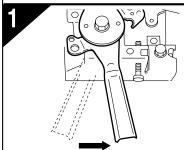
Gradually move the speed control lever toward the high speed position and set it at the required engine speed.

NOTE :

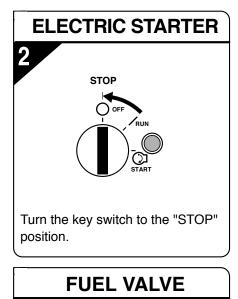
Whenever high speed operation is not required, slow the engine down (idle) by moving the speed control lever to save fuel and extend engine life.

STOPPING

SPEED CONTROL LEVER



Set the speed control lever at the low speed position and allow the engine to run at low speed for 2 or 3 minutes before stopping.



3

Close the fuel valve.

6. EASY TROUBLESHOOTING

WHEN ENGINE WILL NOT START:

- Perform the following checks before you take the engine to your SUBARU Industrial Power Products dealer.
- If you still have trouble after completing the checks, take the engine to your nearest SUBARU Industrial Power Products dealer.

Is there enough compression?

If the spark plug is loose, tighten it.

Is the spark plug wet with gasoline?

- Slowly start the engine for 2 or 3 seconds. Remove the plug and check if its electrode is wet. If the electrode is wet, fuel is well supplied to your engine.
- 2.When the electrode is dry, check to find where the fuel is restricted. (Check the fuel intake of the throttle body and fuel strainer intake.)
- 3. In case the engine does not start with well supplied fuel, try using fresh fuel.

Wipe off spilled fuel carefully before checking the spark plug. Place spark plug as far away from spark plug hole as possible. Do not hold spark plug by hand while checking.



Is there a strong spark across the electrode?

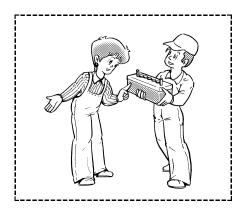
1. Remove the spark plug and connect it to the plug cap.

Turn key switch to START position while grounding spark plug against engine body.

- 2. Try with a new spark plug if the spark is weak or there is no spark.
- The ignition system is faulty if there is no spark with a new spark plug. Take your engine to your nearest Robin dealer.

About the Warning Lamp

- Check the oil if the warning lamp illuminates while driving. (Refer to Section "3. PRE-OPERATION CHECKS" for instructions.)
- Have the vehicle inspected at a dealer or maintenance shop if the warning light is flashing while driving.



Is your battery well charged ?

Check the battery, it may be discharged and unable to operate the electric starter.

Consult your nearest dealer or service shop.

7. SPARK ARRESTER (OPTIONAL)

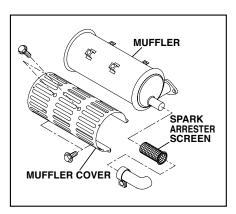
In a dry or wooded area, it is recommendable to use the product with a spark arrester. Some areas require the use of a spark arrester. Please check your local laws and regulations before operating your product.

The spark arrester must be cleaned regularly to keep it functioning as designed. A clogged spark arrester :

- Prevents the flow of exhaust gas
- Reduces engine output
- Increases fuel consumption
- Makes starting difficult

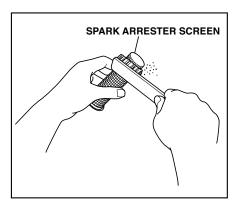
-[CAUTION]-

If the engine has been running, the muffler and the spark arrester will be very hot. Allow the muffler to cool before cleaning the spark arrester.



How to remove the spark arrester

- 1. Remove the flange bolts from the muffler cover and remove the muffler cover.
- 2. Remove the special screw from the spark arrester and remove the spark arrester from the muffler.



Clean the spark arrester screen

Use a brush to remove carbon deposits from the spark arrester screen. Be careful to avoid damaging the screen.

The spark arrester must be free of breaks and holes. Replace the spark arrester if it is damaged.

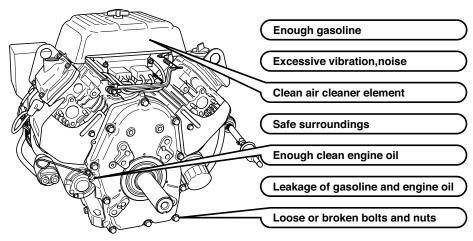
Install the spark arrester, and muffler protector in the reverse order of disassembly.

8. MAINTENANCE SCHEDULE

MAINTENANCE, REPLACEMENT, OR REPAIR OF EMISSION CONTROL DEVICES AND SYSTEMS MAY BE PERFORMED BY ANY NONROAD ENGINE REPAIR ESTABLISHMENT OR INDIVIDUAL.

DAILY INSPECTION

Before running the engine, check the following service items.



PERIODIC MAINTENANCE

Periodic maintenance is vital to safe and efficient operation of your engine. Check the table below for periodic maintenance intervals.

IT IS ALSO NECESSARY FOR THE USER OF THIS ENGINE TO CONDUCT THE MAINTENANCE AND ADJUSTMENTS ON THE EMISSION-RELATED PARTS LISTED BELOW TO KEEP THE EMISSION CONTROL SYSTEM EFFECTIVE.

The emission control system consists of the following parts:

- (1) Throttle body and internal parts
- (2) Cold start enrichment system, if applicable
- (3) Intake manifold, if applicable
- (4) Air cleaner elements
- (5) Spark plug
- (6) Magneto or electronic ignition system
- (7) Spark advance/retard system, if applicable
- (8) Exhaust manifold, if applicable
- (9) Hoses, belts, connectors, and assemblies

The maintenance schedule indicated in the following table is based on the normal engine operation. Should the engine be operated in extremely dusty condition or in heavier loading condition, the maintenance intervals must be shortened depending on the contamination of oil, clogging of filter elements, wear of parts, and so on.

Periodic Maintenance Schedule table

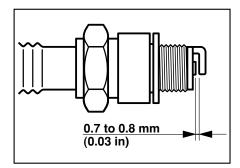
Maintenance Items	Every 8 hours (Daily)	Every 50 hours	Every 200 hours	Every 500 hours	Every 1000 hours
Clean engine and check bolts and nuts	● (Daily)				
Check for leakage from hoses and fitting	● (Daily)				
Check and refill engine oil	• (Refill da	ily to upp	i er level) I		
Change engine oil (*Note 1)	(Initial 20 hours)	• (Ev	l very 100 h I	iours)	
Replace engine oil filter (*Note 1)	(Initial 20 hours)		•		
Check battery electrolyte fluid level		•			
Clean spark plug		•			
Clean air cleaner		•			
Spark arrester (optional part)		• (Ev	l very 100 h	iours)	
Replace air cleaner element			•		
Clean fuel strainer			•		
Clean and adjust spark plug and electrodes			•		
Replace spark plug				•	
Remove carbon from cylinder head				•	
Clean throttle body (*Note 2)					
Clean engine base (oil pan)				•	
Check and adjust valve clearance				•	
Replace fuel lines					(Every 2 years)
Overhaul engine (*Note 2)					•

*Note 1 : Initial oil change and oil filter replacement should be performed after 20 hours of operation.

Thereafter change oil every hundred (100) hours and replace oil filter 200 hours. Before changing oil, check for a suitable way to dispose of old oil. Do not pour it down into sewage drains, onto garden soil or into open streams. Your local zoning or environmental regulations will give you more detailed instructions on proper disposal.

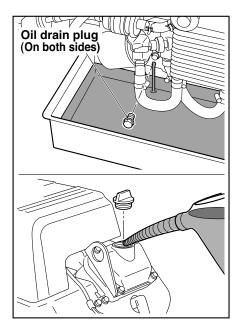
- *Note 2 : As to the procedures, please refer to the Service Manual or consult your nearest ROBIN service dealer.
- *Note 3 : More frequent oil changing, oil filter replacement and air cleaner service on replacement may be necessary depending on operating conditions. This would include dusty environment, high ambient temperature, heavy engine loading.

9. "HOW-TO" MAINTENANCE





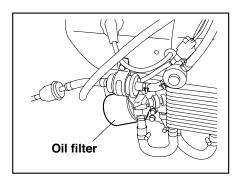
- Clean off carbon deposits on the spark plug electrode using a plug cleaner or wire brush.
- Check electrode gap.
 Adjust gap to :
 0.7mm to 0.8mm (0.03 inches)
- Use a proper spark plug : BPR5ES (NGK) or BPR4EY (NGK)



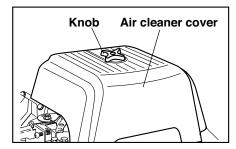
ENGINE OIL CHANGE

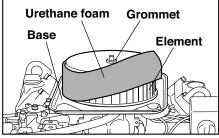
- Initial oil change
 - · · · · · After 20 hours of operation
- Thereafter
 - · · · · · Every 100 hours of operation
- 1. When changing oil, stop the engine and loosen the drain plug.
- 2. Re-install the drain plug before refilling oil.
- 3. Refer to the recommended oil table. (See Section 3 Pre-operation Checks)
- 4. Always use the best grade and clean oil. Contaminated oil, poor quality oil and shortage of oil cause damage to engine or shorten the engine life.

OIL CAPACITY : 1.55 liter



To prevent injury, pay attention to the spilled hot engine oil when replacing engine oil filter.





ENGINE OIL FILTER REPLACEMENT

- Initial engine oil filter replacement should be performed after 20 hours of operation. Thereafter replace the engine oil filter every 200 hours.
- When installing a new oil filter, apply oil to O-ring, attach the oil filter in position and tighten 2/3 turns by hand or with wrench after touching the O-ring to the sealing surface of engine.
- Run the engine for a minute ; stop the engine and check for oil leakage around the oil filter and recheck the oil level.

CLEANING AIR CLEANER

A dirty air cleaner element will cause starting difficulty, power loss, engine malfunctions, and shorten engine life extremely.

Always keep the air cleaner element clean. Replaced the air cleaner element set more often in dusty environments.

The air cleaner paper inner element and urethane foam outer element can be removed after removing knob and air cleaner cover. When installing, set the paper element and urethane foam on the air cleaner base. Check that the grommet is in position, and then install the cover with knob tightened securely.

■ Urethane Foam cleaning Wash and clean the urethane foam in kerosene. Saturate in a mixture of 3 parts kerosene and 1 part engine oil, and then squeeze to remove excess oil. Clean or replace the urethane foam element every 50 hours. (more often in dusty environments)

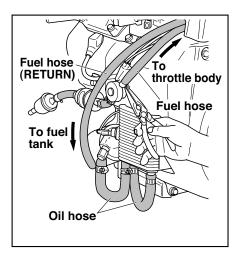
Paper element

Clean by tapping gently to remove dirt and blow off dust. Never use oil. Clean or replace the paper element every 50 hours of operation, and replace element set every 200 hours or once a year.

Clean and replace air cleaner elements more often when operating in dusty environments.

CHECKING BOLTS, NUTS AND SCREWS

Retighten loose bolts and nuts. Check for fuel and oil leaks. Replace damaged parts with new ones. Keep safety in your mind.



FUEL AND OIL HOSE REPLACEMENT

A WARNING

Take extreme caution when replacing fuel hose ; gasoline is flammable.

Replace the fuel and oil hose every 1,000 hours or every 2 years. If fuel and oil hose leak is found, replace the fuel hose immediately.

CHECKING BATTERY

\Lambda WARNING

Battery electrolyte is an acid and is poisonous and corrosive. Serious injury results from contact with the skin, eyes or clothing.

If the electrolyte fluid is below level line, refill battery with distilled water.

HIGH ALTITUDE ENGINE OPERATION

The FI system is installed in this engine.

The air/fuel ratio when driven at the high ground is corrected automatically by this FI system.

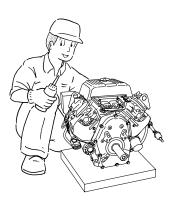
The automatic correction is possible up to 3000m(9800ft).

10. PREPARATIONS FOR STORAGE

USE UP THE FUEL

A WARNING Flame Prohibited

If you will not use the engine for more than 1 month, run the engine until there is no fuel left, and then store the equipment in a location with low humidity in order to prevent start-up problems and operation trouble due to deterioration of the fuel.



ENGINE OIL

- Change the engine oil with fresh oil.
- Remove the spark plug, pour about 5 cc of engine oil into the cylinder, slowly start the engine for 2 or 3 seconds, and re-install the spark plug.



CLEAN AND STORE

- Remove the spark plug wires from the spark plugs.
- Slowly turn the crankshaft until resistance is felt and leave it in that position.
- Clean the engine thoroughly with an oiled cloth, cover the engine, and store the engine indoors in a well ventilated, low humidity area.

11. SPECIFICATIONS

MODEL	EH72 FI				
Туре	Air-Cooled, 4-Stroke, V-Twin Cylinder, Horizontal P.T.O. shaft, OHV Gasoline Engine				
Bore x stroke mm(in)	2-84 x 65 (3.31 x 2.56)				
Displacement cm ³ (cu. in)	720 (43.9)				
Continuous Output kW (HP) / rpm	14.9 (20.0) / 3600				
Maximum Output kW (HP) / rpm	19.4 (26.0) / 3600				
Max. Torque N∙m (kgf∙m) / rpm	52.2 (5.32) / 2800				
Direction of Rotation	Counterclockwise as viewed from P.T.O. shaft side				
Lubricant	Automotive Engine Oil SAE #20, #30 or 10W-30 ; Class SE or higher (SG, SH or SJ is recommended)				
Capacity of Lubricant liter (U.S. gal)	1.55 (0.41)				
Fuel	Automotive Unleaded Gasoline				
Spark plug	BPR5ES (NGK) or BPR4EY (NGK)				
Starting System	Electric Starter				
Dry Weight kg (lb)	46 (101.3)				
Dimension (L x W x H) mm (in)	317 x 477 x 480 (12.5 x 18.8 x 18.9)				
Valve Clearance (Intake & Exhaust)	0.1 ± 0.02 mm (0.0039 \pm 0.0008 in) Note : Adjust the valve clearance while the engine is cold.				
Emissions Durability Period	1000 hours				

Specifications are subject to change without notice

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