

OPERATION / MAINTENANCE AND PARTS MANUAL

RTX-55D(U) /RTX-60D(U)

RTX-75D(U) /RTX-80D(U)

TAMPING RAMMER

(NEW ZEALAND MODEL)



Read this instruction manual before operating this equipment

DEC. 01, 2011

**SECTION 1 -
SAFETY PRECAUTIONS AND GUIDELINES**

Contents	Page
OVERVIEW	1
PRE-START INSPECTION	1
OPERATING	1
MAINTENANCE	2
OPERATING PROCEDURES	2

OVERVIEW

BEFORE YOU OPERATE, MAINTAIN OR IN ANY OTHER WAY, OPERATE THIS MACHINE:

READ and STUDY this manual. KNOW how to safely use the unit's controls and what you must do for safe maintenance. The machine has been built in accordance with state-of-the-art standards and the recognized safety rules. Nevertheless, its use may constitute a risk to life and limb of the user or of third parties, or cause damage to the machine and to other material property.

ALWAYS wear or use the proper safety items required for your personal protection.

For reasons of security, long hair must be tied back or otherwise secured, garments must be close fitting and no jewelry – such as rings or watches - may be worn. Injury may result from being caught up in the machinery or from rings catching on moving parts.

If you have ANY QUESTIONS about the safe use or maintenance of this unit, ASK YOUR SUPERVISOR OR CONTACT ANY DISTRIBUTOR. NEVER GUESS - ALWAYS CHECK.

Never make any modifications, additions or conversions which might affect safety without the supplier's approval. This also applies to the installation and adjustment of safety devices and valves as well as to welding work on load-bearing elements. Observe all fire-warning and fire-fighting procedures.

PRE-START INSPECTION

INSPECT your machine. Have any malfunctioning, broken or missing parts corrected or replaced before use.

Check the machine at least once per working shift for obvious damage and defects. Report any changes (incl. changes in the machine's working behavior) to the competent organization/person immediately. If necessary, stop the machine immediately and lock it.

Take the necessary precautions to ensure that the machine is used only when in a safe and reliable state.

Operate the machine only if all protective and safety oriented devices, such as removable safety devices, emergency shut-off equipment, sound-proofing elements and exhausts, are in place and fully functional.

The electrical equipment of machines is to be inspected and checked at regular intervals. Defects such as loose connections or scorched cables must be rectified immediately.

VERIFY that all the instruction and safety labels are in place and readable. These are as important as any other equipment on the compactor.

NEVER fill the fuel tank, with the engine running, while near an open flame, or while smoking. ALWAYS wipe up any spilled fuel immediately.

**SECTION 1 -
SAFETY PRECAUTIONS AND GUIDELINES**

CHECK for WARNING tags placed on the machine. DO NOT operate the equipment until repairs have been made and the WARNING tags have been removed by authorized personnel.

KNOW the location of the Emergency Shut-Down Control if the machine is so equipped.

OPERATING

In the event of safety-relevant modifications or changes in the behavior of the machine during operation, stop the machine immediately and report the malfunction to the competent authority/person.

Always wear the prescribed ear protectors.

Always make sure that no person or obstruction is in your line of travel. Watch your step to avoid tripping.

USE extreme caution and be observant when working in close quarters or congested areas.

Before beginning work, familiarize yourself with the surroundings and circumstances of the site, such as obstacles in the working and traveling area, the soil bearing capacity and any barriers separating the construction site from public roads.

When traveling on public roads, ways and places always observe the valid traffic regulations and, if necessary, make sure beforehand that the machine is in a condition compatible with these regulations

Always keep at a distance from the edges of building pits and slopes.

DO NOT run the engine in a closed building for an extended length of time. EXHAUST FUMES CAN KILL.

DO NOT operate the compactor on non-compactable material, such as concrete or hardened asphalt.

MAINTENANCE

Observe the adjusting, maintenance and inspection activities and intervals set out in the operating instructions, including information on the replacement of parts and equipment. These activities must be executed by skilled personnel only.

Ensure that the maintenance area is adequately secured.

After cleaning, examine all fuel, lubricant, and hydraulic fluid lines for leaks, loose connections, chafe marks and damage.

Any defects found must be rectified without delay.

Always tighten any screwed connections that have been loosened during maintenance and repair.

**SECTION 1 -
SAFETY PRECAUTIONS AND GUIDELINES**

Any safety devices removed for set-up, maintenance or repair purposes must be refitted and checked immediately upon completion of the maintenance and repair work.

Ensure that all consumables and replaced parts are disposed of safely and with minimum environmental impact.

AVOID, whenever possible, servicing, cleaning or examining the unit with the engine running.

NEVER fill the fuel tank, with the engine running, while near an open flame, or while smoking. ALWAYS wipe up any spilled fuel immediately.

ALWAYS disconnect the spark plug before performing any work on the unit.

DO NOT alter the engine governor settings from those indicated in the engine manual.

ALWAYS replace damaged or lost decals. Refer to the Parts Manual for the proper location and part number of all decals.

Carry out welding, flame-cutting and grinding work on the machine only if this has been expressly authorized, as there may be a risk of explosion and fire.

Before carrying out welding, flame-cutting and grinding operations, clean the machine and its surroundings from dust and other inflammable substances and make sure that the premises are adequately ventilated (risk of explosion).

SECTION 2 - INTRODUCTION

EXCELLENT CHOICE! MEIWA Tamping Rammer you have chosen will give you many hours of maintenance free operation resulting in a faster return of your investment.

Safe operation depends on reliable equipment and the use of proper operating procedures. Performing the checks and services described in this manual will help keep your machine in good condition. These recommended operation procedures will help you to avoid unsafe practices.

Safety notes have been included throughout this manual to help you avoid injury and prevent damage to the equipment. These notes are not intended to cover all eventualities; it is impossible to anticipate and evaluate all possible methods of operation. Therefore, you are the only person who can guarantee safe operation and maintenance. It is important that any procedure not specifically recommended in this manual be thoroughly evaluated from the standpoint of safety before it is implemented.





























Continuing improvement and advancement of product design may cause changes to your machine which may not be included in this publication. Each publication is reviewed and revised, as required, to update and include these changes in later editions. MEIWA reserves the right to modify or make changes within a specific model group without notice and without incurring any liability to retrofit units previously shipped from the factory. Contact your MEIWA Distributor for non-routine maintenance information that is not covered in this publication.

SECTION 3 - SYMBOL IDENTIFICATION AND METRIC CONVERSION

Contents	Page
INTERNATIONAL MACHINE SYMBOLS _____	1
INTERNATIONAL HIGHWAY SYMBOLS _____	2
METRIC CONVERSIONS _____	4

















INTERNATIONAL MACHINE SYMBOLS

The following explains the meaning of international symbols that may appear on your machine



















	OIL PRESSURE		BRAKE		HOURS
	WATER TEMPERATURE		HORN		NEUTRAL
	ON / OFF		CAUTION		LOW ENGINE RPM.
	LIGHTS		FUEL		BRAKE-PARK
	WATER		SLOW		VIBRATION
	BATTERY		FAST		AMPLITUDE
	AMMETER OR VOLTMETER		TRANSMISSION		FREQUENCY
	AIR PRESSURE		GREASE		CAUTION-PRESSURIZED
	LOW AIR PRESSURE		OIL		
	ENGINE RPM		HYDRAULIC OIL		

SECTION 3 - SYMBOL IDENTIFICATION AND METRIC CONVERSION
INTERNATIONAL HIGHWAY SYMBOLS

The following symbols may also appear in a yellow square instead of a red triangle.

	Road bends		Uneven road
	Dangerous bend		Ridge
	Double bend		Dip
	Dangerous descent		Slippery road
	Steep ascent		Loose gravel
	Carriageway narrows		No entry for power driven vehicles
	Carriageway narrows		No entry for vehicles exceeding length
	"end of priority" sign		No entry for vehicles exceeding length
	Oncoming traffic has priority		Falling rocks
	Priority over oncoming traffic		Pedestrian crossing
	Swing bridge		Road work
	Road leads onto quay or river bank		Light signals

SECTION 3 - SYMBOL IDENTIFICATION AND METRIC CONVERSION

	Two-way traffic		“give way” sign
	Other dangers		Stop sign (new)
	Level crossing		Stop sign (old)
	Level crossing		“priority road” sign
	No entry		No entry for vehicles exceeding weight
	Closed to all vehicles in both directions		No entry for vehicles axle weight exceeding
	Intersection, user must give way		No u-turn
	Intersection, user must give way		No turn direction shown
	Intersection, user must give way		No entry for power driven vehicles

SECTION 3 - SYMBOL IDENTIFICATION AND METRIC CONVERSION

TO CONVERT OMREGNET FRA	INTO TIL	MULTIPLY BY MULTIPLICERES MED
Bar	Pound/sq.in	14.50
Bar	Kilopascals	100.
Centigrade	Fahrenheit	$(C^{\circ} \times 9/5) + 32$
Centimeters	Inches	0.3937
Centimeters	Millimeters	10.0
Circumference	Radians	6.283
Cubic centimeters	cu.inches	0.06102
Degrees (angle)	Radians	0.01745
Degrees/sec.	Revolutions/min	0.1667
Feet	Meters	0.3048
Feet/min	Meters/min.	0.3048
Foot-pounds	Kg-meters	0.1383
Gallons	Liters	3.785
Hertz	Vibrations/min.	60.
Horsepower	Kilowatts	0.7457
Inches	Centimeters	2.540
Inches	Millimeters	25.40
Kilograms	Pounds	.250
Kilogram meters	-Pounds	7.233
Kilopascal	Pounds/sq.in	0.1450
Kilopascal	Bars	0.01
Kilowatts	Horsepower	1.341
Liters	Gallons (U.S. liq)	0.2642
Liters	Pints (U.S. liq)	2.113
Liters	Quarts (U.S. liq)	1.057
Meters	Feet	3.281
Meters	Inches	39.37
Meters/min	Feet/sec	0.05468
Miles/hr	kms/hr	1.609
Millimeters	Inches	0.03937
Newtons	Pounds	4.448
Newton-meter	Pound-feet	0.737
Pounds	Kilograms	0.4536
Pounds	Newtons	0.225
Pound feet	Newton-meter	1.356
Pounds/ft.	kgs/meter	1.488
Pounds/sq in	Bars	0.06895
Pounds/sq in	Kilopascals	6.895
Quarts (liq)	Liters	0.9463
Radians	Degrees	57.30
Radians/sec	Revolutions/min	9.549
Revolutions/min	Degrees/sec	6.0
Revolutions/min	Radians/sec	0.1047
Temperature (°C) + 17.78	Temperature (°F)	1.8
Temperature (°F) - 32	Temperature (°C)	5/9
Tons (short)	Tons (metric)	0.9078
Vibrations/min	Hertz	0.0167

SECTION 4 - OPERATING INSTRUCTIONS

Contents	Page
SAFETY CHECKS - PRE-STARTING _____	1
INSPECTION PRIOR TO OPERATION _____	2
OPERATION _____	2
STORAGE _____	6

WARNING

Improper maintenance can be hazardous.

Read and understand SECTION 1 - SAFETY PRECAUTIONS AND GUIDELINES before you perform any maintenance, service or repairs.

SAFETY CHECKS - PRE-STARTING

Before starting each day, in addition to the 10 hour daily routine maintenance, check or inspect the following items to ensure trouble free performance.

1. Check fluid lines, hoses, fittings, filler openings, drain plugs, pressure cap, muffler, safety shrouds and the area underneath.
2. The unit for signs of leakage or damage. Fix any leaks and correct any damage before operating.
3. Inspect the entire unit for damaged or missing parts and repair or replace them as needed.
4. Check the fuel level. If necessary, fill the fuel tank with the proper fuel.
5. Check all fastening hardware to ensure it is adequately tightened and that none is missing or broken.
6. Do not operate faulty equipment.
7. Be observant of people and obstructions within the work area.

Please read "INSTRUCTIONS FOR USE" for ROBIN engine and this instruction manual for correct use and care.

SECTION 4 - OPERATING INSTRUCTIONS

Please check if the unit is correctly maintained in good operating condition.

INSPECTION PRIOR TO OPERATION

CHECK ENGINE OIL

Before checking or refilling engine oil, be sure the compactor is located on a stable level surface.

Do not thread the gauge into oil filler to check oil level. If the oil level is below the lower level line on the dipstick, refill with the proper oil to the upper level (to the neck of oil filler). See section 9.

CHECK ENGINE FUEL

⚠ WARNING

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

CLEANING AIR CLEANER

Check Air Cleaner to be sure it is clean and not contaminated. If it needs cleaning perform the following steps:

Remove the outer urethane foam and inner element. Wash the element in fuel. Saturate it in a mixture of 3 parts kerosene or diesel fuel and 1 part engine oil. Shake off excessive oil and reinstall. Wash the air cleaner case using kerosene. After cleaning it up, apply engine oil on the inner part of the case.

⚠ CAUTION

If the air cleaner element is seriously contaminated, engine start up failure, poor output or engine malfunction may result.

CHECK EACH PART FOR LOOSE OR BROKEN BOLTS AND NUTS

Tighten loose bolts and nuts, if any. Check each part for fuel or oil leak. Replace broken or damaged parts, if any, with new ones.

LUBRICATION OF MAIN BODY

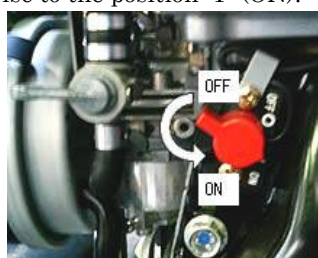
Check the Main Body oil level with the oil gauge before each operation. Change oil after the first 50 hours and every 200 hours. See Section 11.

OPERATION

STARTING

1. Turn the STOP SWITCH (Figure 4-1) clockwise to the position "I" (ON).

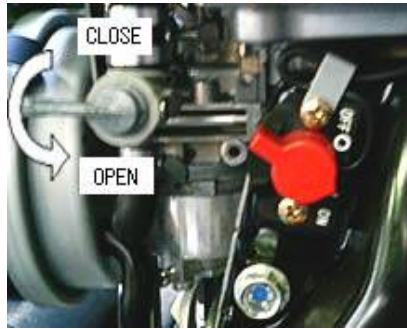
Figure 4-1



SECTION 4 - OPERATING INSTRUCTIONS

2. Open the FUEL COCK (Figure 4-2) located under the fuel tank.

Figure 4-2



3. Close the CHOKE LEVER (Figure 4-3). If the engine is cold or the ambient temperature is low, close the Choke Lever fully. If the engine is warm or the ambient temperature is high, open the Choke Lever half-way, or keep it fully open.

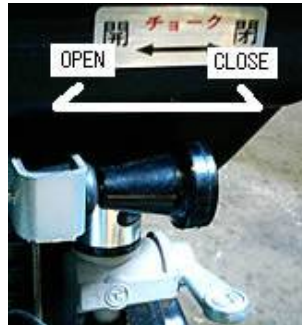


Figure 4-3

4. Position THROTTLE LEVER (Figure 4-5) to "LOW" speed position.

5. Pull the STARTER HANDLE (1, Figure 4-4) of RECOIL STARTER slowly until resistance is felt. This is the "COMPRESSION" point. Return the Handle to its original position and pull swiftly. After starting the engine, allow the Starter Handle to return to its original position while still holding the Handle.

Figure 4-4

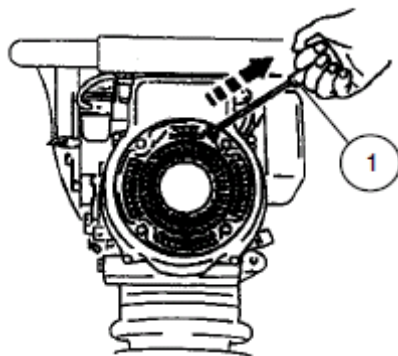
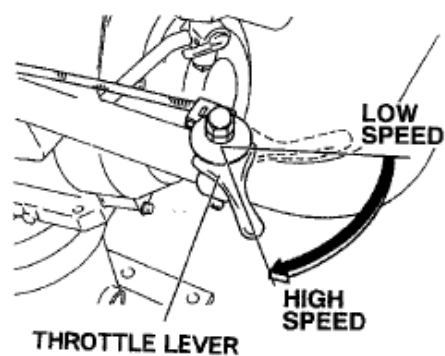


Figure 4-5



SECTION 4 - OPERATING INSTRUCTIONS

After the engine starts, set the Throttle Lever (Figure 4-5) at the low speed position "LOW" and warm it up without load for a few minutes. Fully open CHOKE LEVER (1, Figure 4-3) gradually.

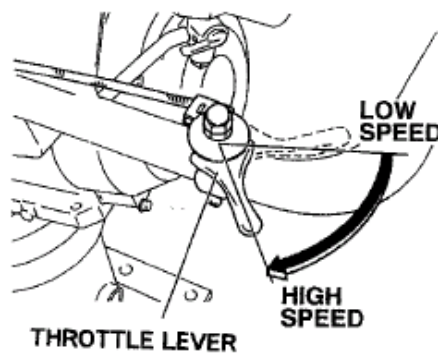
! CAUTION

Avoid fully pulling out the rope. Return the Handle to its original position.

RUNNING

1. Shift the Throttle Lever (Figure 4-5) to "HIGH" speed position quickly. The rammer starts to vibrate and move forward.

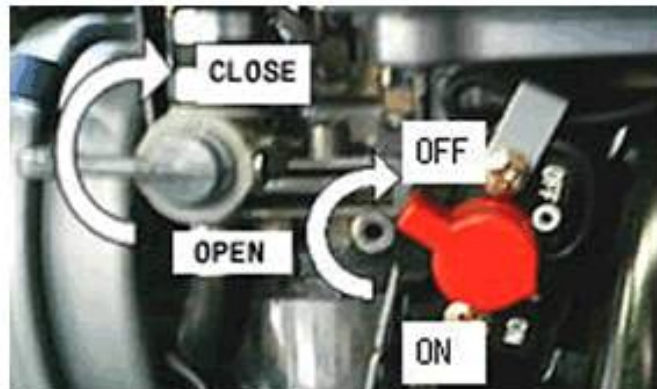
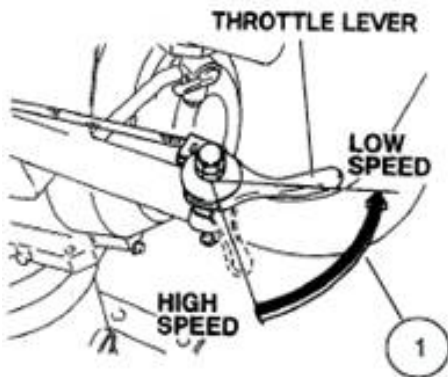
Figure 4-5



STOPPING

1. Shift the throttle lever (1, Figure 4-6) to "LOW" speed position.
2. Allow the engine to run at low speed for 2-3 minutes before stopping.
3. Turn the STOP SWITCH (2, Figure 4-6) counterclockwise to the position "O"(OFF).
4. Close the fuel cock (3, Figure 4-6).

Figure 4-6



SECTION 4 - OPERATING INSTRUCTIONS

CAUTION

Do not stop engine suddenly while running at high speed.

LONG TERM STORAGE

WARNING

Discharge fuel (No Smoking!)

1. Remove the strainer cup of the fuel cock, place the strainer over a container and open the fuel cock to discharge fuel from the fuel tank. Remove the carburetor float chamber bolt from the bottom and discharge fuel from the carburetor.
2. Close the fuel cock.
3. Change the engine oil with fresh oil.
4. Remove the spark plug, pour about 5 cc of the engine oil into the cylinder, slowly pull the starter handle of the recoil starter 2 or 3 times, and re-install the spark plug.
5. Slowly pull the recoil starter handle until resistance is felt and leave it in that position.
6. Clean the unit and engine.
7. Store the unit and engine indoors in a well-ventilated, low humidity area. Use the cover to avoid dirt, etc. if storage will be for a long time.

CAUTION

Always stop the engine and allow cooling down before covering the unit.

SECTION 5 - FUEL AND LUBRICATION SPECIFICATIONS

Contents	Page
GENERAL INFORMATION _____	1
FLUID CAPACITIES _____	1

GENERAL INFORMATION

Lubrication is an essential part of preventive maintenance, affecting to a great extent the useful life of the unit. Different lubricants are needed and some components in the unit require more frequent lubrication than others.

Specific recommendations of brand and grade of lubricants are not made here due to regional availability, operating conditions, and the continual development of improved products. Where questions arise, refer to the requirements and specifications in the manufacturer's manual.

All oil levels are to be checked with the machine parked on a level surface, and while the oil is cold, unless otherwise specified.

TABLE 5-1 FLUID CAPACITIES

FUEL/OIL	APPROXIMATE CAPACITY
	RT70R / RD
ENGINE FUEL (Unleaded Gasoline) _____	2.5 liters
VIBRATORY SHAFT CASE (SE 10W30) _____	0.9 liters
ENGINE OIL (SE 10W30) _____	0.4 liters



Fuel is flammable. May cause injury and property damage.

Shut down the engine, extinguish all open flames and do not smoke while filling the fuel tank.

Always wipe up any spilled fuel.

CHECK FUEL

1. Stop the engine and open the fuel tank cap.
2. Use the automobile unleaded gasoline only.
3. Close the fuel cock before filling the fuel tank.
4. When filling the fuel tank, always use the fuel filter.
5. Wipe off any spilled fuel before starting the engine.

SECTION 6 - INITIAL BREAK-IN MAINTENANCE

Contents	Page
ENGINE OIL _____	1
LUBRICATION OF MAIN BODY _____	1
GENERAL INFORMATION _____	2

⚠ WARNING



Improper maintenance can be hazardous.

Read and understand SECTION 1 - SAFETY PRECAUTIONS AND GUIDELINES before you perform any maintenance, service or repairs.

ENGINE OIL

Drain the engine oil after the first 20 hours of operation. Fill with the correct amount of the recommended oil. Check the oil level with the oil filler cap/dip stick. See Section 9.

⚠ WARNING



Hot oil and/or components can burn.

Oil must be at normal operating temperature when draining.

Avoid contact with hot oil or components.

LUBRICATION OF MAIN BODY

Check the Main Body oil level with the oil gauge before each operation. Change oil after the first 50 hours and every 200 hours. See Section 11.

CHECK EACH PART FOR LOOSE OR BROKEN BOLTS AND NUTS

Tighten loose Bolts and Nuts, if any. Check each part for fuel or oil leak. Replace broken or damaged parts, if any, with new ones.

SECTION 6 - INITIAL BREAK-IN MAINTENANCE

GENERAL MAINTENANCE

Perform the following maintenance checks after the initial break in period.

1. Engine RPM is adjusted to: (3700 - 3800 rpm (With load)).
2. Check Bolts and Nuts for looseness. Tighten it if necessary.
3. Check for fuel and oil leak.
4. Keep the RUBBER BUFFER away from oil and fuel.
5. Please refer to "INSTRUCTION FOR USE" for ROBIN engine EH09D regarding the how-to maintenance for engine.

SECTION 7 - TROUBLE SHOOTING - GENERAL MAINTENANCE

Contents	Page
TRUBLE SHOOTING _____	1
GENERAL MAINTENANCE _____	2

TROUBLESHOOTING

1) Engine fails to start.

- | | |
|------------------------------|---------------------------------------|
| a) Spark plug is defective | Clean or replace. |
| b) Air in the fuel system. | Bleed air completely. |
| c) Fuel tank is empty. | Refuel |
| d) Fuel Strainer is clogged. | Clean or replace. |
| e) Carburetor is clogged. | Clean or replace, if necessary. |
| f) Excessive fuel. | Open fuel drain cock and excess fuel. |

2) Engine runs irregularly.

- | | |
|------------------------------------|---|
| a) Fuel line sucks air. | Retighten the fuel pipe joints and bleed air. |
| b) Air cleaner is clogged. | Clean air cleaner or replace element. |
| c) Engine stalls during operation. | Clean fuel system and retighten the fuel pipe joints. |
| d) Low compression. | Replace head gasket or retighten spark plug. |

3) Machine fails to jump.

- | | |
|-------------------------------------|-----------------------------------|
| a) Incorrect setting RPM of engine. | Adjust |
| b) Throttle cable is slacked. | Adjust |
| c) Centrifugal clutch is slipped. | Overhaul or replace If necessary. |

4) The traveling is bad or the vibration is diffuse.

- | | |
|-----------------------------------|-----------------------------------|
| a) Centrifugal clutch is slipped. | Overhaul or replace if necessary. |
| b) Coil spring is fatigued. | Replace |
| c) Excessive oil level. | Correct |
| d) Improper oil viscosity. | Check oil viscosity, change if |

SECTION 7 - TROUBLE SHOOTING - GENERAL MAINTENANCE

GENERAL MAINTENANCE

1. Engine RPM is adjusted to: 4,000 - 4,100 min⁻¹ (4,000 - 4,100 rpm) (With load).
2. Check Bolts and Nuts for looseness. Tighten it if necessary.
3. Check for fuel and oil leak.
4. Keep the RUBBER BUFFER away from oil and fuel.
5. Check the V-Belt for wear, damage and cracks. If necessary, replace with a new belt.

AIR CLEANER

Keep the Air Cleaner Element clean. Take out the outer urethane foam and inner element. Wash the element in kerosene or diesel fuel. Saturate it in a mixture of 3 parts kerosene or diesel fuel and 1 part engine oil. Shake off excessive oil and reinstall. Wash the air cleaner case using kerosene. After cleaning it up, apply the engine oil on the inner part of the case.

CAUTION

If the air cleaner element is seriously contaminated, start-up failure, poor output and engine malfunction of the engine may result. Never run the engine without the air cleaner. Rapid engine wear will result.

SECTION 8 - 10 HOUR OR DAILY ROUTINE MAINTENANCE

Contents	Page
ENGINE OIL _____	1
AIR CLEANER _____	1
FASTENING HARDWARE _____	1
LUBRICATION MAIN BODY _____	1

⚠ WARNING



Improper maintenance can be hazardous.

Read and understand SECTION 1 - SAFETY PRECAUTIONS AND GUIDELINES before you perform any maintenance, service or repairs.

It is recommended that the following steps be performed at the beginning and end of each 8 to 10 hour shift or daily, whichever comes first.

ENGINE OIL

Check the engine's oil level at the start of each day and maintain it to the full mark on the dipstick. Insert the dipstick and check the full mark on the dipstick. See Section 9.

AIR CLEANER

If the machine is operating in a dusty environment check the air cleaner daily. Keep the Air Cleaner Element clean. Take out the outer urethane foam and inner element. Wash the element in kerosene or diesel fuel. Saturate it in a mixture of 3 parts kerosene or diesel fuel and 1 part engine oil. Shake off excessive oil and reinstall. Wash the air cleaner case using kerosene. After cleaning it up, apply the engine oil on the inner part of the case.

⚠ CAUTION

If the air cleaner element is seriously contaminated, the start-up failure, poor output and malfunctions of the engine may result.

FASTENING HARDWARE

Check all fastening hardware to ensure it is all adequately tightened and that none is missing or broken.

LUBRICATION OF MAIN BODY

Check the Main Body oil level with the oil gauge before each operation. Change after the first 50 hours and every 200 hours. See Section 11.

SECTION 9 - 50 HOUR OR WEEKLY ROUTINE MAINTENANCE

Contents	Page
ENGINE OIL _____	1
LUBRICATION OF MAIN BODY _____	1

CHECK AND CHANGE ENGINE OIL

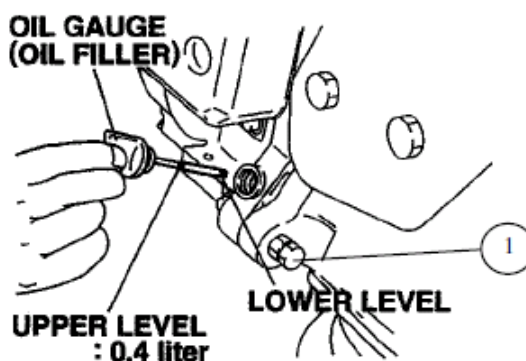
Before checking or refilling engine oil, be sure the machine is located on a stable level surface and stopped.

When check oil do not thread the oil gauge (Figure 9-1) into oil filler to check oil level. If the oil level is below the lower level (Figure 9-1) line on the dipstick oil gauge, refill with the proper oil to the upper level (Figure 9-1)(to the neck of oil filler).

When changing oil stop the engine, loosen the drain plug (1, Figure 9-1), reinstall the drain plug before refilling oil. Add new oil at the oil gauge (Figure 9-1) port.

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.

Figure 9-1



Changing and filling:

Capacity of engine oil 0.3 liters(RTX55,60), 0.4litters(RTX75,80)

Recommend engine oil SAE 10W30

Use class SE, SF (API classification) or higher grade oil.

Initial oil change After 20 hours of operation.

Thereafter Every 50 hours of operation.

LUBRICATION OF MAIN BODY

Check the Main Body oil level with the oil gauge before operation. Change oil after the first 50 hours and every 200 hours.

See Section 11.

SECTION 10 - 100 HOUR OR MONTHLY ROUTINE MAINTENANCE

NOTE

*** No 100 Hour or Semi-Annual Routine Maintenance is required.***

SECTION 11 - 200 HOUR OR QUARTERLY ROUTINE MAINTENANCE

Contents	Page
LUBRICATION OF MAIN BODY _____	1

LUBRICATION OF MAIN BODY

Check:: Check the oil level with the oil gauge before each operation.

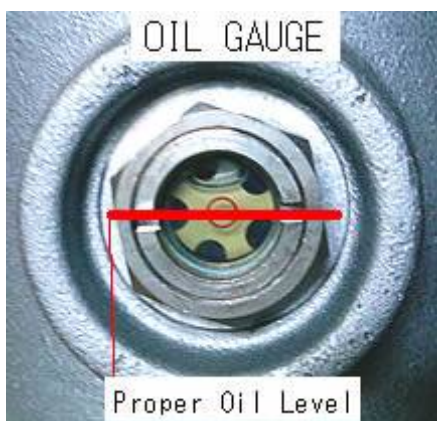
Capacity of oil 0.7 liters (RTX55/60) 1.0litters(RTX75/80)

Recommended oil SAE 10W30

Initial changeAfter first 50 hours of operation.

Regular changeEvery 200 hours of operation.

To change oilRemove the plug. Drain out the oil and fill with the fresh oil. After fill with the fresh oil, check each part for the oil leak.



SECTION 12- 500 HOUR OR SEMI-ANNUAL ROUTINE MAINTENANCE

NOTE

*** No 500 Hour or Semi-Annual Routine Maintenance is required.**

SECTION 13 - 1000 HOUR OR ANNUAL ROUTINE MAINTENANCE

NOTE

*** No 1000 Hour or Annual Routine Maintenance is required. ***

SECTION 14 - ROUTINE ADJUSTMENTS

NOTE

*** No Routine Adjustments required.***

SECTION 15 - MISCELLANEOUS AND OPTIONAL EQUIPMENT

NOTE

*** No Miscellaneous or Optional Equipment ***

SECTION 16 - SCHEMATICS

NOTE

*** No Schematics are necessary for this unit. ***

