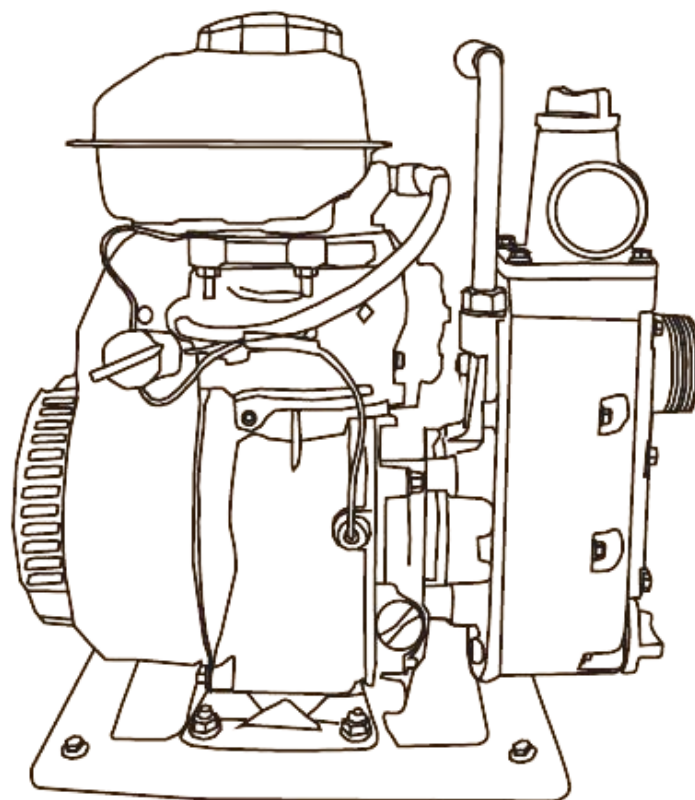


## AGRIMATE GASOLINE WATER PUMP AM-WPK-15X



## INTRODUCTION

Dear Sir/ Madam,

Thank you for choosing Agrimate product. You are the proud owner of high technology & durable machine. Trust that our Franchisee/Dealer installed the product & installed the product and explained you about the usage & service instructions. Please visit our autorised dealer for your future requirement of our other equipments, genuine spares, accessories and services. Service coupons are attached with this manual and you can avail free service to keep your machine fit always to use on demand.

About Ratnagiri,

We import and market of high quality of agriculture wide range of equipments which we are selling through our authorised franchisee or dealer network. We are in this field from past years service the farmer. community. For further details, Please visit our website [www.agrimart.in](http://www.agrimart.in). & Give a missed call to 7393 938 938.

## TECHNICAL SPECIFICATIONS

MODEL	AM-WPK-15X
RATED FLOW RATE	10M <sup>3</sup> /HR.
MAX FLOW RATE	16M <sup>3</sup> /HR.
RATED LIFT HEAD	14M
MAX. LIFT HEAD	20M
RATED ROTATE HEAD	3600R/MIN
MAX. SUCTION	7M
DIAMETER OF INLET	1.5"
DIAMETER OF OUTLET	1.5"

CARRYING HANDLE

FUEL FILLER CAP

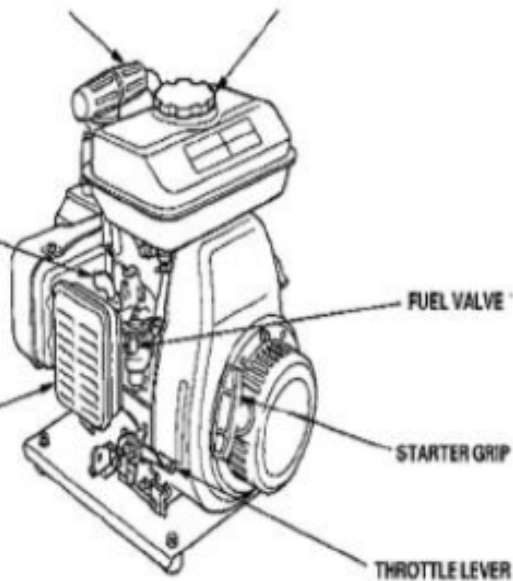
CHOKE LEVER

FUEL VALVE

AIR CLEANER

STARTER GRIP

THROTTLE LEVER



DISCHARGE PORT

ENGINE SWITCH

ENGINE SERIAL NUMBER

OIL FILLER CAP/  
DIPSTICK

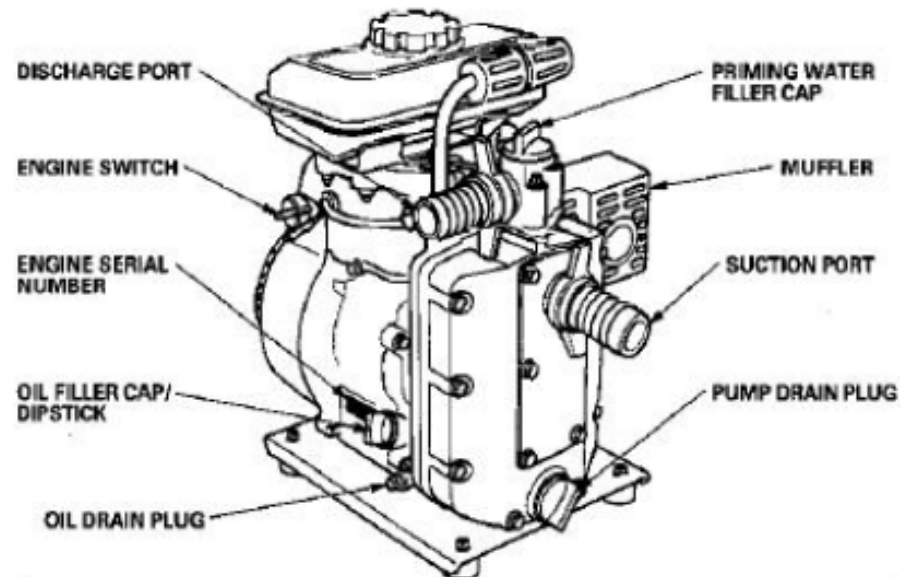
OIL DRAIN PLUG

PRIMING WATER FILLER CAP

MUFFLER

SUCTION PORT

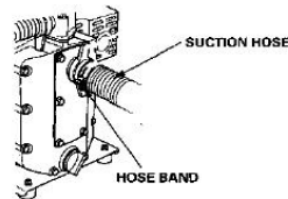
PUMP DRAIN PLUG



Use a commercially available hose, hose connector, and hose bands. The suction hose must be of reinforced, non-collapsible wall or wire braided hose to prevent suction collapse. The suction hose length should not be longer than necessary, as the pump performance is best when the pump is not far above the water level. Self-priming time is also proportional to the suction hose length. Using a longer suction hose will increase the self-priming time. The strainer is provided with the pump and should be attached to the end of the suction hose with a band as shown.

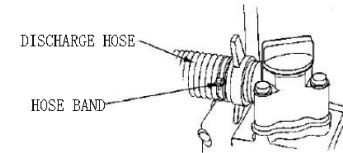
#### NOTICE

Always install the strainer on the end of the suction hose before pumping. The strainer will prevent debris from entering the pump that can cause slogging or pump damage.



#### Discharge hose

Use a commercially available hose, hose connector, and hose band. A short, large-diameter hose is most efficient. A long or small-diameter hose increases fluid friction and reduces pump output. Tighten the hose band securely to prevent the hose from disconnecting under high pressure.

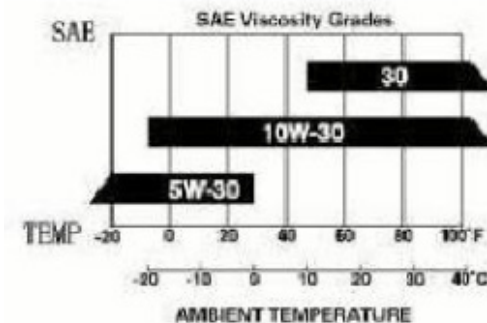


#### Engine oil

#### NOTICE

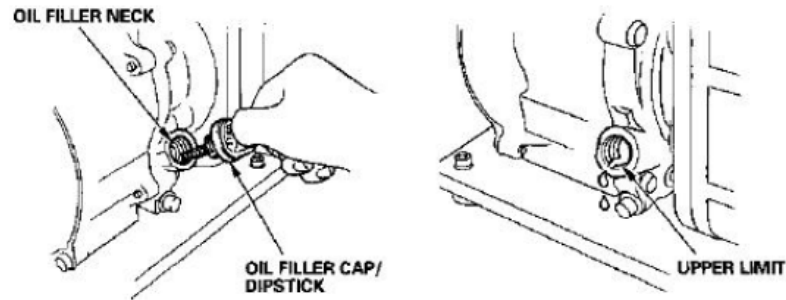
Engine oil is a major factor affecting engine performance and service life. No detergent oils and 2-stroke oils are not recommended because they have inadequate lubricating characteristics.

- Check the oil level with the pump on a level surface and the engine stopped. Use 4-stroke oil, or an equivalent high-detergent, premium quality motor oil certified to meet or exceed U.S. automobile manufacturer's requirements for service classification SG, SF. Motor oils classified SG, SF will show this designation on the container. 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.



## NOTICE

Running the engine with insufficient oil can cause serious engine damage.



## Fuel Recommendation

1. Remove the filler cap check fuel level.
2. Refill the tank if the fuel level is low. Do not fill above the shoulder of the fuel strainer.

## 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 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 fuel vapor. KEEP OUT OF REACH OF CHILDREN
- Fuel tank capacity: 1.4l (0.37 US gal, 0.31 Imp gal)

Use unleaded gasoline with a pump octane rating of 86 or higher.  
This engine is designed to operate on unleaded gasoline. Unleaded gasoline produces fewer engine and spark plug deposits and extends exhaust life.

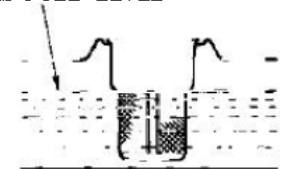
## NOTICE

Fuel can damage paint and some types of plastic. Be careful not to spill fuel when filling your tank. Damage caused by spilling fuels not covered under warranty. Never use stale or contaminated gasoline or oil/gasoline mixture. Avoid getting dirt or water in the fuel tank.

Occasionally you may hear light “spark knock” or “pinging” (metallic rapping noise) while operating under heavy loads. This in no cause for concern



MAXIMUM FUEL LEVEL



If spark knock or pinging occurs at a steady engine speed, under normal load, change brands of gasoline. If spark knock or pinging persists, see an authorized water pump dealer.

#### NOTICE

Running the engine with persistent spark knock or pinging can cause engine damage. Running the engine with persistent spark knock or pinging is misuse, and the distributor's Limited Warranty does not cover parts damaged by misuse.

#### Air cleaner

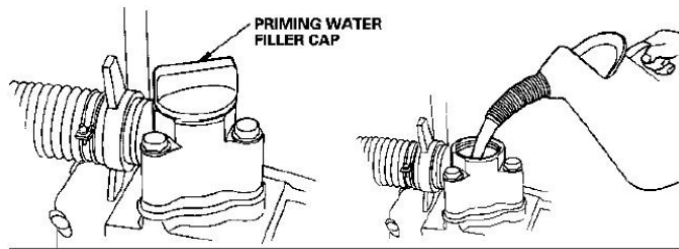
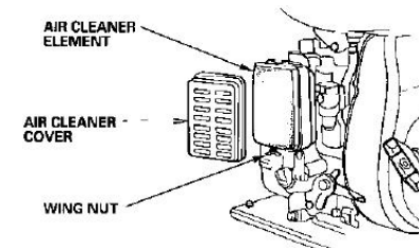
Loosen the wing nut and remove the air cleaner cover.

Check the air cleaner element to be sure it is clean and in good condition.

Clean or replace the element if necessary

#### NOTICE

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

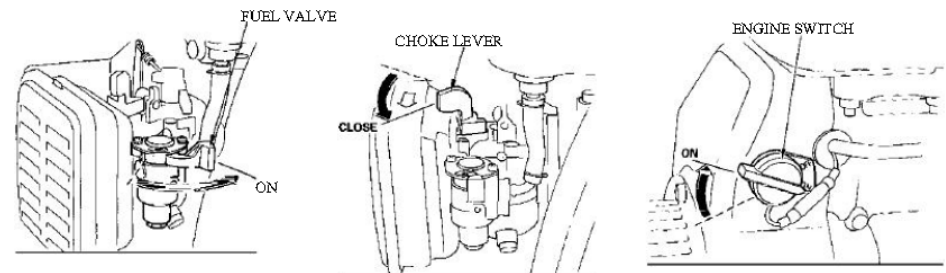


#### Priming water

The pump chamber should be completely filled before operating.

#### NOTICE

Do not operate the pump without priming water or the pump will overheat. Operating the pump dry will destroy the pump seal. If the unit has been operated dry, stop the engine immediately and allow the pump to cool before adding priming water.

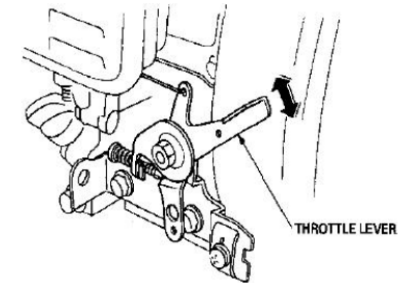
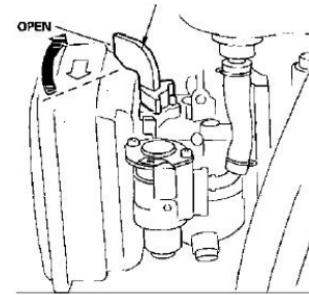
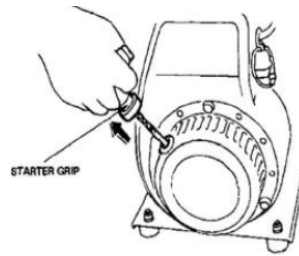
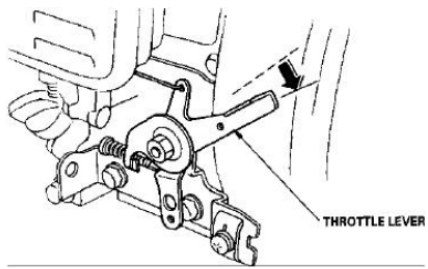


#### STARTING THE ENGINE

1. Turn the fuel valve ON.
2. Close the choke lever.

Do not use the choke if the engine is warm or the ambient temperature is high.

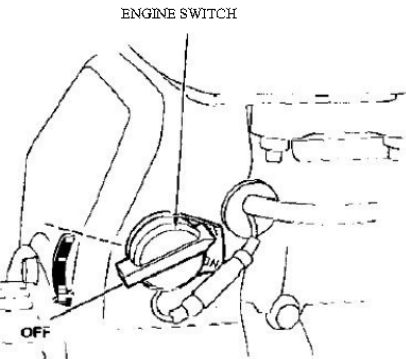
3. Turn the engine switch to the ON position.
4. Move the throttle lever downward slightly, just past the idle position.
5. Pull the starter grip lightly resistance is felt, then pull it briskly.



**NOTICE**

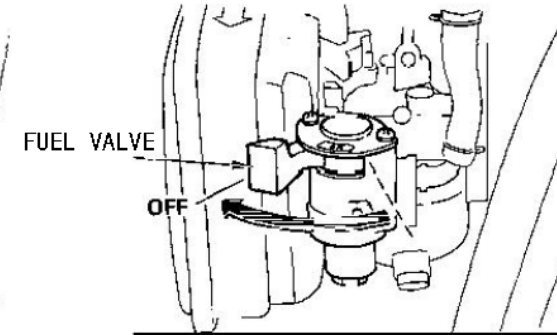
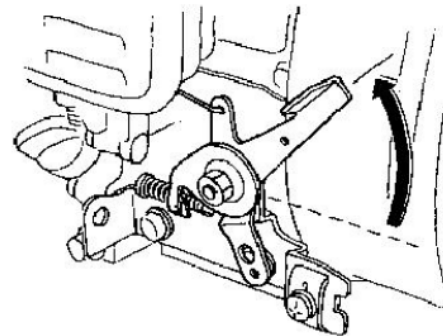
Do not allow the starter grip to snap back against the engine. Return it slowly to prevent damage to the starter.

1. As the engine warms up, gradually open the choke.
2. Set the throttle at the desired speed.



In an emergency:

1. To stop the engine in an emergency, turn the engine switch to the OFF position.



In normal use:

1. Move the throttle lever all the way up.
2. Turn the engine switch to the OFF position.
3. Turn the fuel valve OFF.

The purpose of the Maintenance Schedule is to keep the pump in the best operating condition. Inspect as indicated in the Maintenance Schedule below.

**WARNING**

Shut off the engine before performing any maintenance. If the engine must be operated, 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 for maintenance or repair. Replacement parts which are not of equivalent quality may damage the pump.

**NOTE**

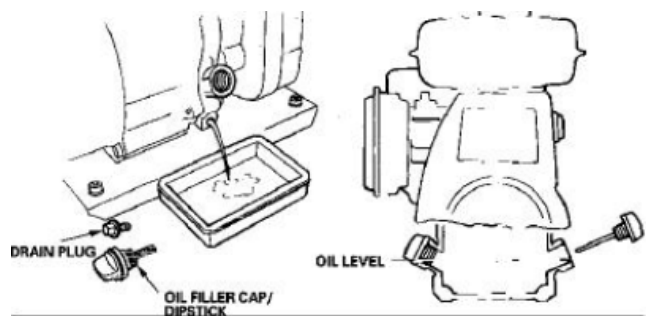
1. service more frequently when used in dusty areas.
2. These items should be serviced by an authorized water pump dealer, unless the owner has the proper tools and is mechanically proficient. See the Shop Manual.



MAINTENANCE

Maintenance Schedule

REGULAR SERVICE PERIOD		Dairy	First month or 20 Hrs.	Every 3 months or 50 Hrs.	Every 6 months or 100 Hrs.	Every year or 300 Hrs.
ITEM	Perform at every indicated Month or operating hour Interval, whichever comes first.					
Engine oil	Inspection	○				
	Change		○		○	
Air cleaner element	Inspection	○				
	Change			○ (1)		
Spark plug maintenance					○	
Tappet clearance adjustment						○ (2)
Combustion chamber cleaning						○ (2)
Fuel tank cleaning						○ (2)
Fuel line		Every 2 years (Replace if necessary)				
Impeller inspection						○ (2)
Casing cover inspection						○ (2)
Inlet valve inspection						○ (2)



### 1. Changing oil

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

1. Remove the oil filler cap/dipstick and the drain plug to drain the oil.
2. Reinstall the drain plug and tighten securely.
3. Refill with the recommended oil to the specified level

OIL CAPACITY: 0.4l

Please dispose of used motor oil in a manner that is compatible with the environment. We suggest you take it in a sealed container to your local recycling center or service station for reclamation. Do not throw it in the trash or pour it on the ground.

### 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 pump 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.

#### NOTICE

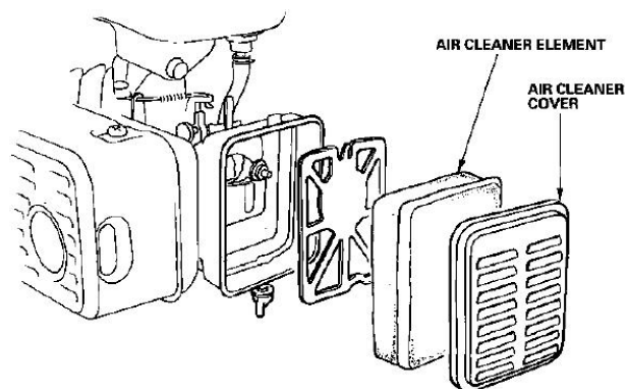
Never run the engine without the air cleaner. Rapid engine wear will result from contaminants, such as dust and dirt being drawn into the engine.

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



2. 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.
3. Measure the plug gap with a feeler gauge. Correct as necessary by bending the side electrode. The gap should be: 0.70-0.80mm (0.028-0.031 in)
4. Check that the sparkplug 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.

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

#### NOTICE

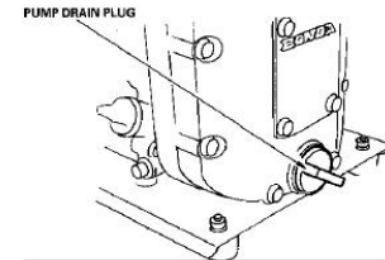
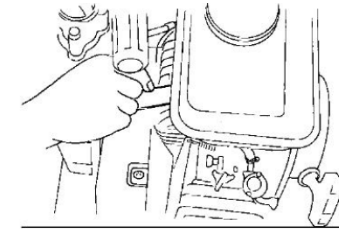
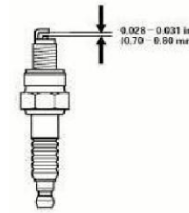
1. The spark plug must be securely tightened. An improperly tightened spark plug can become very hot and may cause engine damage.
2. Use only the recommended spark plug or equivalent. A spark plug which has an improper heat range may cause engine damage.

When transporting the water pump, turn the engine switch and the fuel valve OFF. Keep the water pump level to prevent fuel spillage. Fuel vapor or spilled fuel may ignite.

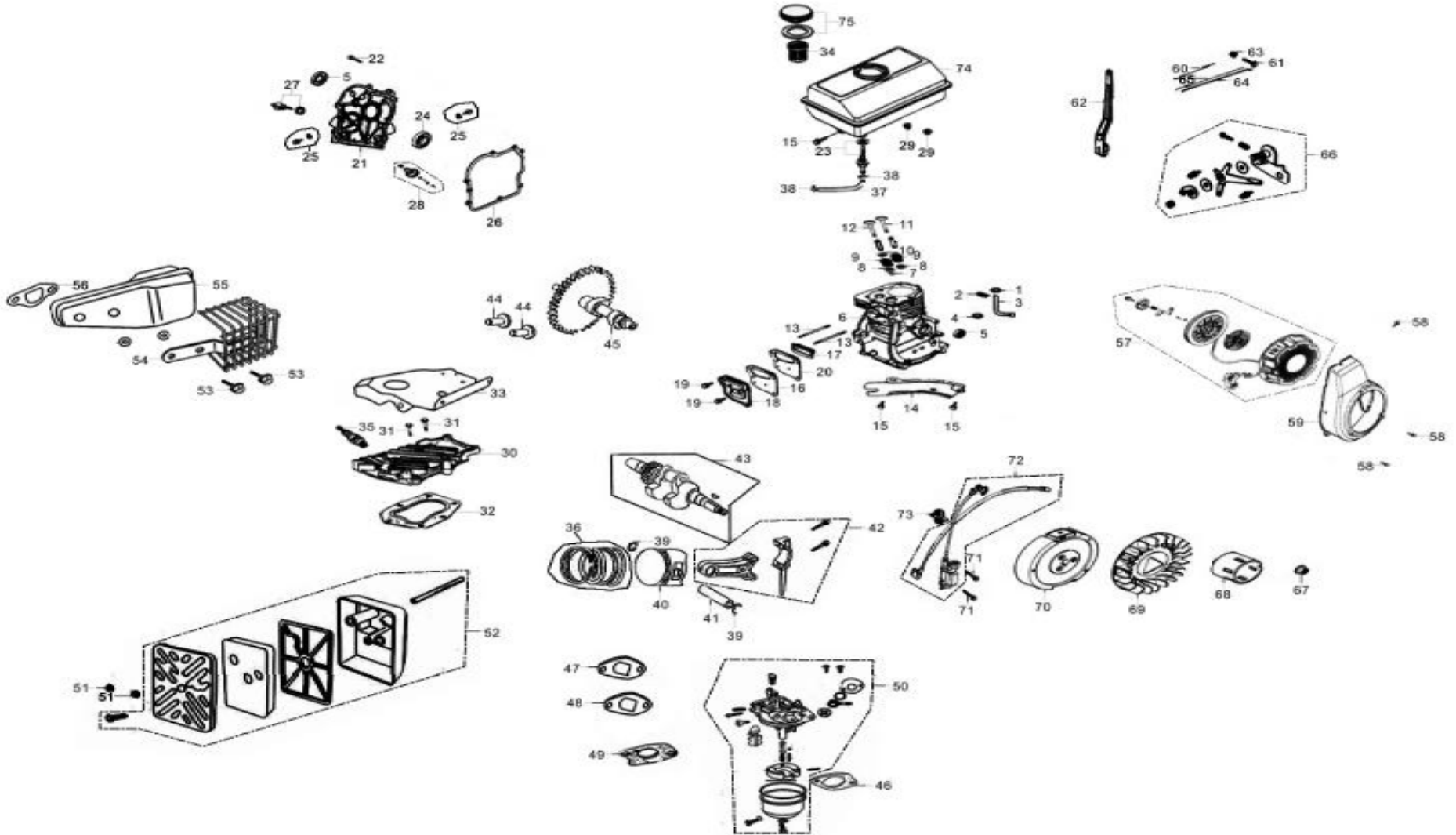
#### WARNING

Contact with a hot engine or exhaust system can cause serious burns or fires. Let the engine cool before transporting or storing the water pump. Before storing the pump for an extended period;

1. Be sure the storage area is free of excessive humidity and dust.
2. Clean the pump interior. Sediment will settle in the pump if it has been used in muddy or sandy water, or water containing heavy debris. Pump clean water through the pump before shutting down or the impeller may be damaged when restarting. After flushing, remove the pump drain plug, and drain as much water as possible from the pump housing. After the pump is dry, spray MULTI PURPOSE LUBE AND RUST PENETRANT into the pump housing through the inlet port, outlet port, and drain hole, then install the drain.



# ENGINE DIAGRAM & SPARE PARTS LIST OF AM-WPK-15X WATER PUMP SET



# ENGINE SPARE PARTS LIST OF AM-WPK-15X WATER PUMP SET

SL NO	PART NO	DESCRIPTION	SL NO	PART NO	DESCRIPTION
1	AM-WPK-15X-E01	IRON GASKET	17	AM-WPK-15X-E17	OIL FILTER COVER
2	AM-WPK-15X-E02	COTTER PIN	18	AM-WPK-15X-E18	OIL DEFLECTOR
3	AM-WPK-15X-E03	GOVERNOR ARM	19	AM-WPK-15X-E19	BOLT
4	AM-WPK-15X-E04	OIL SEAL OF GOVERNOR ARM	20	AM-WPK-15X-E20	GASKET OF OIL FILTER COVER
5	AM-WPK-15X-E05	OIL SEAL	21	AM-WPK-15X-E21	CRANK CASE COVER
6	AM-WPK-15X-E06	CRANK CASE	22	AM-WPK-15X-E22	BOLT
7	AM-WPK-15X-E07	VALVE ADJUSTMENT CAP	23	AM-WPK-15X-E23	FUEL NOZZLE
8	AM-WPK-15X-E08	VALVE SPRING SEAT	24	AM-WPK-15X-E24	BEARING
9	AM-WPK-15X-E09	VALVE SPRING	25	AM-WPK-15X-E25	ALUMINUM GASKET
10	AM-WPK-15X-E10	"OIL COVER/FLUOROUS RUBBER"	26	AM-WPK-15X-E26	"SEAL GASKET OF CRANK CASE COVER/ASBESTOS"
11	AM-WPK-15X-E11	VALVE IN.	27	AM-WPK-15X-E27	OIL RULER
12	AM-WPK-15X-E12	VALVE EX.	28	AM-WPK-15X-E28	SPEED GOVERNING GEAR
13	AM-WPK-15X-E13	INLET STUD	29	AM-WPK-15X-E29	OIL DRAIN BOLT
14	AM-WPK-15X-E14	WIND SCOOPER BELOW	30	AM-WPK-15X-E30	"CYLINDER HEAD COVER"
15	AM-WPK-15X-E15	BOLT	31	AM-WPK-15X-E31	BOLT
16	AM-WPK-15X-E16	OIL DEFLECTOR GASKET	32	AM-WPK-15X-E32	CYLINDER GASKET

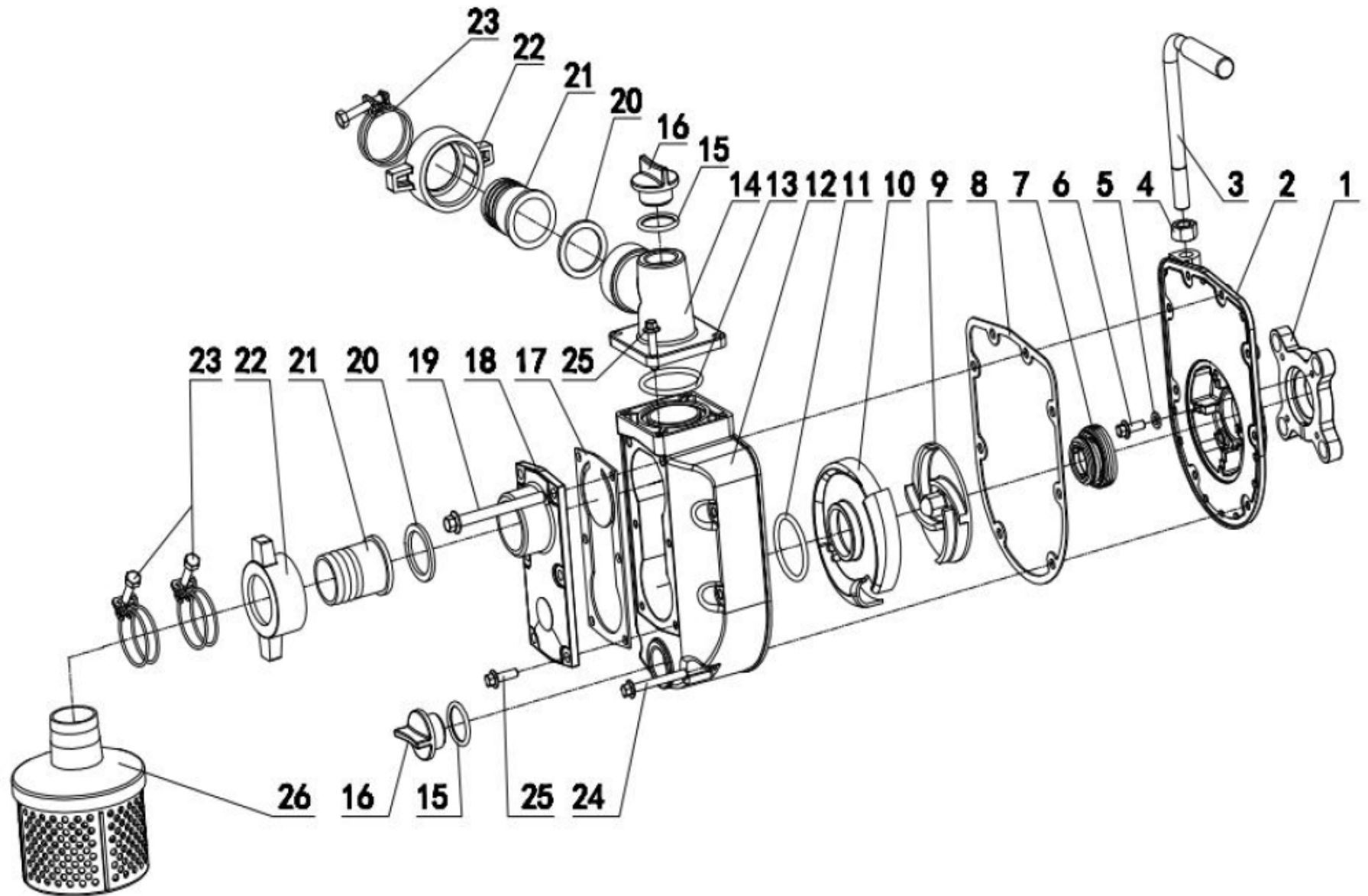
# ENGINE SPARE PARTS LIST OF AM-WPK-15X WATER PUMP SET

SL NO	PART NO	DESCRIPTION	SL NO	PART NO	DESCRIPTION
33	AM-WPK-15X-E33	WIND SCOOPER UPPER	49	AM-WPK-15X-E49	"CARBURATOR GASKET/ASBESTOS"
34	AM-WPK-15X-E34	FUEL STAINER/PLASTIC	50	AM-WPK-15X-E50	CARBURATOR
35	AM-WPK-15X-E35	SPARK PLUG/E6TC	51	AM-WPK-15X-E51	NUT
36	AM-WPK-15X-E36	PISTON RING ASSY.	52	AM-WPK-15X-E52	AIR CLEANER
37	AM-WPK-15X-E37	PIPELINE	53	AM-WPK-15X-E53	BOLT
38	AM-WPK-15X-E38	PIPELINE CLAMP/PUPELINE	54	AM-WPK-15X-E54	WARM PROOF MESH
39	AM-WPK-15X-E39	PISTON PIN CLIP	55	AM-WPK-15X-E55	MUFFLER/OUTLET DOWN
40	AM-WPK-15X-E40	PISTON	56	AM-WPK-15X-E56	EXHASUT GASKET/ASBESTOS
41	AM-WPK-15X-E41	PISTON PIN	57	AM-WPK-15X-E57	STARTER ASSY.
42	AM-WPK-15X-E42	CONNCETING ROD	58	AM-WPK-15X-E58	BOLT
43	AM-WPK-15X-E43	CRANK SHAFT	59	AM-WPK-15X-E59	WIND SCOOPER
44	AM-WPK-15X-E44	LIFTER VALVE	60	AM-WPK-15X-E60	ACCLERATOR SPRING
45	AM-WPK-15X-E45	"CAM SHAFT/PLASTIC GEAR/COPPER DABBER"	61	AM-WPK-15X-E61	COACH BOLT
46	AM-WPK-15X-E46	"AIR CLEANER GASKET/ASBESTOS"	62	AM-WPK-15X-E62	GOVERNOR SUPPORT
47	AM-WPK-15X-E47	INLET GASKET/ASBESTOS	63	AM-WPK-15X-E63	NUT
48	AM-WPK-15X-E48	HEAT SHIELD	64	AM-WPK-15X-E64	ACCELERATOR ROD

# ENGINE SPARE PARTS LIST OF AM-WPK-15X WATER PUMP SET

SL NO	PART NO	DESCRIPTION	SL NO	PART NO	DESCRIPTION
65	AM-WPK-15X-E65	ACCELERATOR SPRING			
66	AM-WPK-15X-E66	"ACCELERATOR CONTROL ASSY."			
67	AM-WPK-15X-E67	NUT			
68	AM-WPK-15X-E68	STARTING CAP			
69	AM-WPK-15X-E69	VANE WHEEL/BLACK PP			
70	AM-WPK-15X-E70	FLYWHEEL/IRON/RECOIL START			
71	AM-WPK-15X-E71	BOLT			
72	AM-WPK-15X-E72	IGNITER			
73	AM-WPK-15X-E73	CLIP			
74	AM-WPK-15X-E74	FUEL TANK			
75	AM-WPK-15X-E75	FUELT TANK COVER			

# PUMP DIAGRAM & SPARE PARTS LIST OF AM-WPK-15X WATER PUMP SET





# PUMP SPARE PARTS LIST OF AM-WPK-15X WATER PUMP SET

SL NO	PART NO	DESCRIPTION	SL NO	PART NO	DESCRIPTION
1	AM-WPK-15X-P01	Connecting flange plate	14	AM-WPK-15X-P14	Water outlet seat
2	AM-WPK-15X-P02	Water pump base	15	AM-WPK-15X-P15	O-ring
3	AM-WPK-15X-P03	Handle	16	AM-WPK-15X-P16	Plug
4	AM-WPK-15X-P04	Handle nut	17	AM-WPK-15X-P17	Water outlet seat cushion
5	AM-WPK-15X-P05	Aluminum flat pad	18	AM-WPK-15X-P18	Water outlet seat
6	AM-WPK-15X-P06	Bolt	19	AM-WPK-15X-P19	Bolt
7	AM-WPK-15X-P07	Water seal	20	AM-WPK-15X-P20	Round flat pad
8	AM-WPK-15X-P08	Sealing flat gasket	21	AM-WPK-15X-P21	Pump Connecting Parts
9	AM-WPK-15X-P09	impeller	22	AM-WPK-15X-P22	Pump Nut
10	AM-WPK-15X-P10	volute	23	AM-WPK-15X-P23	Hoop
11	AM-WPK-15X-P11	O-ring (volute)	24	AM-WPK-15X-P24	Bolt
12	AM-WPK-15X-P12	Pump body	25	AM-WPK-15X-P25	Bolt
13	AM-WPK-15X-P13	O-ring (water outlet seat)	26	AM-WPK-15X-P26	Bottom valve

## INSPECTION & MAINTAINANCE

For safety use, make sure the machine is cleaned every three months. Before working, make sure to inspect the filter and the nozzle and ensure there is no impurity. After working, make sure there is no water in the pump and the hose.

If the machine needs to be repaired in the guarantee period, please return the machine to the shop. You need to provide the certificate of purchase on order to repair or get the substitute.

Before packing, the machine should be cleaned, then use closed packaging, packaging should be firm. Store the machine in dry place.

For transportation safety. The machine should comply with ISTA.






Do not dispose of electrical machines as unsorted municipal waste, use separate collection facilities.

If electrical machines are disposed of in landfills or dumps, hazardous substances can leak into the ground water and get into the food chain, damaging your health and well being.

When replacing old machines with new ones, the retailer is legally obligated to take back your old machine for disposals at least free of charge.

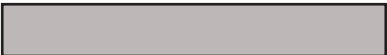




# WARRANTY CARD

## CUSTOMER COPY

DATE _____	DATE OF DELIVERY _____	DEALERS OFFICIAL SEAL	DEALERS SIGN _____
PURCHASERS NAME & ADDRESS _____ _____	 CUSTOMER SIGN		
PRODUCT NAME	PRODUCT SERIAL NO.	INVOICE/DN NO.	
			
I/Will accept the terms and conditions of warranty as in the warranty card			






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## DEALERS COPY

DATE _____	DATE OF DELIVERY _____	DEALERS OFFICIAL SEAL	DEALERS SIGN _____
PURCHASERS NAME & ADDRESS _____ _____	 CUSTOMER SIGN		
PRODUCT NAME	PRODUCT SERIAL NO.	INVOICE/DN NO.	
			
I/Will accept the terms and conditions of warranty as in the warranty card			

---

## COMPANY COPY

DATE _____	DATE OF DELIVERY _____	DEALERS OFFICIAL SEAL	DEALERS SIGN _____
PURCHASERS NAME & ADDRESS _____ _____	 CUSTOMER SIGN		
PRODUCT NAME	PRODUCT SERIAL NO.	INVOICE/DN NO.	
			
I/Will accept the terms and conditions of warranty as in the warranty card			

1. LIMITED WARRANTY PERIOD : For a period of six months from the date of Sale / delivery of the product which ever is earlier. 2. LIMITED WARRANTY OBLIGATION : Replacement of defective part(s) by authorized dealer are free of charges. If found defective by reasons of defective material / poor workmanship, parts will be replaced and there will be no value re-imburement. 3. TERMS & CONDITIONS : a. Claims under warranty will be accepted on submission of Warranty Card duly filled and stamped by authorized dealer together with the original purchase document. : b. Shipping / transportation / Incidental charges incurred in replacing defective parts under warranty shall be borne by the purchaser

WARRANTY null & void if

- (i) Lack of maintenance, (ii) Incorrect use of the machine or tampering, (iii) Use of non-genuine spare parts, (iv) Usage of acids, solvents, or any flammable materials, (v) Non-usage of filter water / clear water / soft water & using water above 40°C temperature, (vi) While using the pressure washers to draw water which is contaminated with dust & solvents (eg. paint thinners, gasoline, oil, etc.), (vii) Repair done by unauthorized service people, (viii) Those parts subject to wear & tear due to normal operations and plastic parts, rubber items etc, (ix) Loose connections, faulty electrical fixtures & fluctuations in power supply.
- 4. Should any failure occur during or after the warranty period, customer does not have the right to interrupt payment / price discount.
- 5. Incidental or consequential damages like inconvenience commercial loss, loss of tie, mental agony etc.
- 6. Loss of any nature due to operation or non-operation is not covered under warranty.
- 7. All free service are at Dealer's service point only.
- 8. Warranty ceases if service is not done periodically.
- 9. The attached card should be completed and returned to Ratnagiri Impex Pvt. Ltd. for registration immediately after sale / delivery.
- 10. The warranty is void unless you register the warranty card with Ratnagiri Impex Pvt. Ltd.
- 11. The decision of Ratnagiri Impex Pvt. Ltd., in settling the warranty is final in all respects.
- 12. All disputes are subject to Bangalore Courts Jurisdiction

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**FREE SERVICE COUPON (30DAYS/30HRS. WHICHEVER IS EARLIER)**

MODEL

SERIAL NUMBER

PDI DATE

SERVICE NO.

PURCHASE BILL NO.

DATE

DEALERS OFFICE SEAL

- 1. Check and test the fuel mixture
- 3. Check , clean and adjust the spark plug
- 5. Check and sparken the cutting tools
- 7. Start and check the noise, vibration, loosen etc..

OPERATIONS

- 2. check and clean the air filter
- 4. Check and adjust the carburetor tuning
- 6. Product familirisation on usage
- 8. Routine maintenance and shortage.

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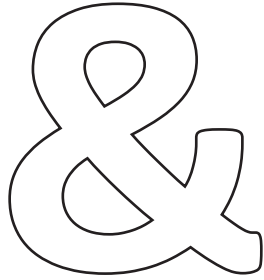
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# DOS

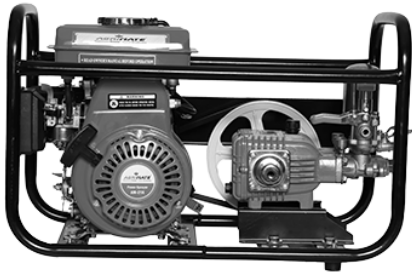
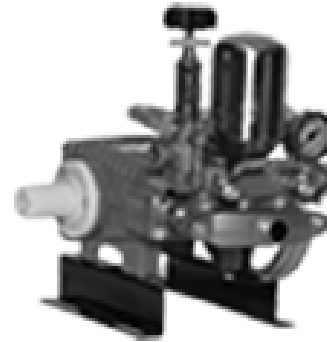


# DONTs

1. Always read the instruction manual supplied along with the equipments and understand the correct installation and operating procedures before attempting to use the equipments.
2. It is important to use the personal protection equipments such as head helmet with visor, ear defenders, goggles, safety gloves, cut resistant shoes, trousers and jackets while operating potentially dangerous machines
3. Avoid untrained persons using the equipments. Children must not be allowed to handle these equipments
4. Always use genuine spares and accessories in repairs and usage to derive maximum life of the equipments.
5. Always keep the equipments in good working condition to minimize loss of output as well as to reduce the pollution and save the environment
6. Do not use the machine within range of persons unless they wear protective clothing
7. Do not operate the machine when fatigued or under the influence of alcohol or drugs
8. When the machine is running, please maintain a constant water supply. Without water circulation will damage the sealing rings of the machine.
9. For more query kindly contact for our Service Center/Dealer/ franchise

# Agrimate Army For Pest Control

ANY WHERE - ANY TIME - ANY CROP



Marketed by:  
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impex**  
BRINGING YOU THE FUTURE... NOW

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