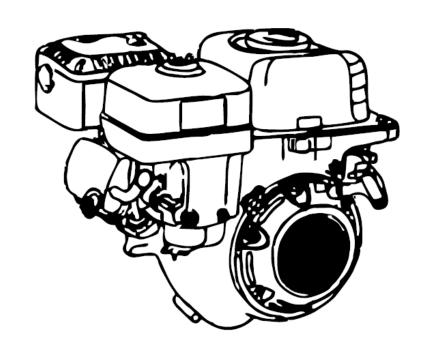




# AGRIMATE GASOLINE ENGINE AM-EN-80D-GE



### 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. & Give a missed call to 7393 938 938.

#### **ENGINE SAFETY**

#### IMPORTANT SAFETY INFORMATION

Most accidents with engine can be prevented if you follow all instructions in this manual and on the engine. Some of the most common hazards are discussed below, along with the best way to protect yourself and others.

Operator Responsibility

Know how to stop the engine quickly in case of emergency.

Be sure that anyone who operates the engine receives proper instruction. Do not let children operate the engine without parental supervision.

#### Carbon Monoxide Hazards

An engine's exhaust contains toxic carbon monoxide, which you cannot see or smell. Breathing carbon monoxide can KILL YOU IN MINUTES. To avoid carbon monoxide poisoning, follow these instructions when operating a engine

Only run a engine OUTSIDE, far away from windows, doors, and vents.

Never operate a engine inside a house, garage, basement, crawl or partially enclosed space.

Never operate a engine near open doors or windows.

Get fresh air and seek medical attention immediately if you suspect you have inhaled carbon monoxide.

Early symptoms of carbon monoxide exposure include headache, fatigue, shortness of breath, nausea, and dizziness. Continued exposure to carbon monoxide can cause loss of muscular coordination, loss of consciousness, and then death.

#### Fire and Burn Hazards

The exhaust system gets hot enough to ignite some materials.

Keep the engine at least 1 meter away from buildings and other equipment during operation

Do not enclose the engine in any structure.

Keep flammable materials away from the engine

### Refuel With Care

Petrol is extremely flammable, and petrol vapour can explode. Allow the engine to cool, if it has been in operation.

Refuel only outdoors in a well-ventilated area with the engine off. Do not refuel during operation

Never smoke near petrol, and keep other flames and sparks away.

Always store petrol in an approved container. Make sure that any spilled fuel has been wiped up before starting the engine.

Other equipment

Review the instructions provided with equipment powered by this engine for any additional safety precautions that should be observed in conjunction with engine startup, shutdown, or operation, or protective apparel that may be needed to operate the equipment.

#### SAFETY LABEL LOCATION

These labels warn you of potential hazards that can cause serious injury. Read them carefully. If a label comes off or becomes hard to read, contact your Honda servicing dealer for a replacement.

### **ENGINE SAFETY**

Honda engine is designed to give safe and dependable service if operated according to instructions. Read and understand the Owner's Manual

before operating the engine. Failure to do so could result in personal injury or equipment damage.

Exhaust contains poisonous carbon monoxide, a colorless, odorless gas. Breathing carbon monoxide can cause loss of consciousness and may lead to death.

If you run the engine in an area that is confined, or even partially enclosed area, the air you breathe could contain a dangerous amount of exhaust gas.

Never run your engine inside a garage, house or near open windows or doors.

Petrol is highly flammable and explosive. Turn the engine off and let it cool before refueling.

A hot exhaust system can cause serious burns. Avoid contact if the engine has been running.

The engine is not certified for sale in US, CANADA, EUROPE & AUSTRALIA as it is not matching the emission regulations of these areas.

If the oil in the crankcase falls below a safe limit then the oil alert system will automatically turn the engine 'OFF'.

### **SAFETY INSTRUCTIONS**

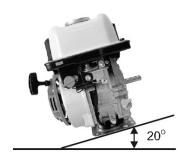
WHILE REFILLING, STOP ENGINE AND DO NOT SMOKE, WIPE SPILLED FUEL.

SPILLED FUEL MAY CAUSE FIRE.

DO NOT CONNECT PIPE TO EXHAUST MUFFLER.

DO NOT PUT A DUST COVER ON THE ENGINE WHILE IN OPERATION

INCLINATION OF ENGINE SHOULD NOT EXCEED 20° DURING OPERATION.



### **PRE-OPERATION CHECK**

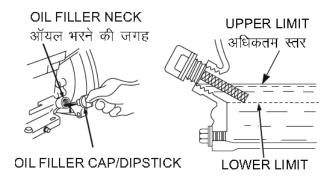
Always check the following items before you start the engine. Check the General Condition of the Engine.

- 1. Look around and underneath the engine for signs of oil or petrol leaks.
- 2. Remove any excessive dirt or debris, especially around the muffler and recoil starter.
- 3. Look for sign of damage.
- 4. Check that all shroud and covers are in place, and all nuts, bolts, and screws are tightened.

### 1. OIL LEVEL

- 1. Check the oil level, if the oil level is low.
- 2. Fill the oil to the upper level.





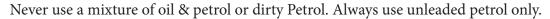
### **PRE-OPERATION CHECK**

#### OIL ALERT SYSTEM

- a. If the oil in the crankcase falls below a safe limit then the oil alert system will automatically turn the engine OFF.
- b. In that case fill the oil to upper level and restart the engine.

Check engine oil before each operation. Use only recommended engine oil.

- 2. FUEL LEVEL
- a. Check the fuel level
- b. If the fuel level is low, fill to the shoulder of the fuel filter.



### PRE-OPERATION CHECK

### 3. AIR CLEANER

- a. Open the air cleaner cover nut and remove air cleaner cover.
- b. Open the wing nut and remove Air Cleaner Element and Packing, and then separate them.
- c. Carefully check both elements for holes or tears or oil contamination and replace, if damaged. Check for dirt in the air cleaner element. If it is dirty, clean it.
- d. Install the air cleaner elements with packing and tighten the wing nut. Install the air cleaner cover. Tighten the air cleaner cover nut.

Operating the engine without an air cleaner element or with a damaged air cleaner element, will allow dirt to enter the engine, causing rapid engine wear. This is not covered under Warranty.

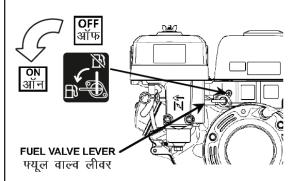
Check the equipment powered by this engine. Review the instructions provided with the equipment powered by this engine for any precautions and procedures that should be followed before engine startup.



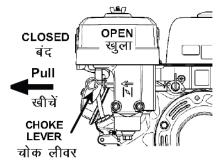


### **OPERATION**

### STARTING THE ENGINE

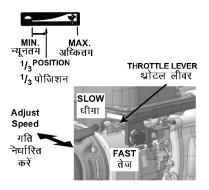


Move the fuel valve lever to the 'ON' position



To start a cold engine, move the choke lever to the 'CLOSED' position.

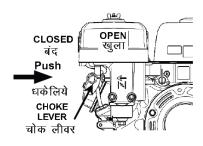
To restart a warm engine, leave the choke lever in the 'OPEN' position.



Move the throttle lever away from the MIN. position, about of the way toward the MAX. position.



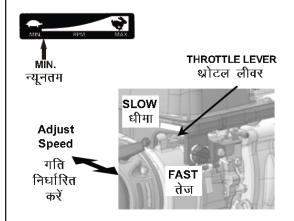
Pull the starter grip lightly until you feel resistance, then pull briskly in the direction of the arrow as shown in the figure. Return the starter grip gently.



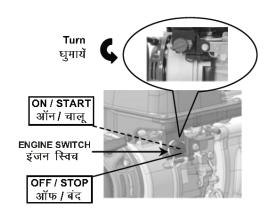
If the choke lever was pulled to the CLOSED position to start the engine, gradually push it to the OPEN position as the engine warms up

### STOPPING THE ENGINE

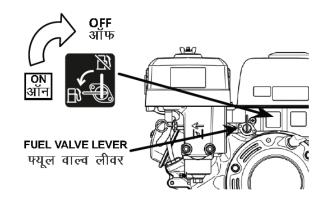
Under normal conditions, use the following procedure.



Move the throttle lever to the MIN. position.



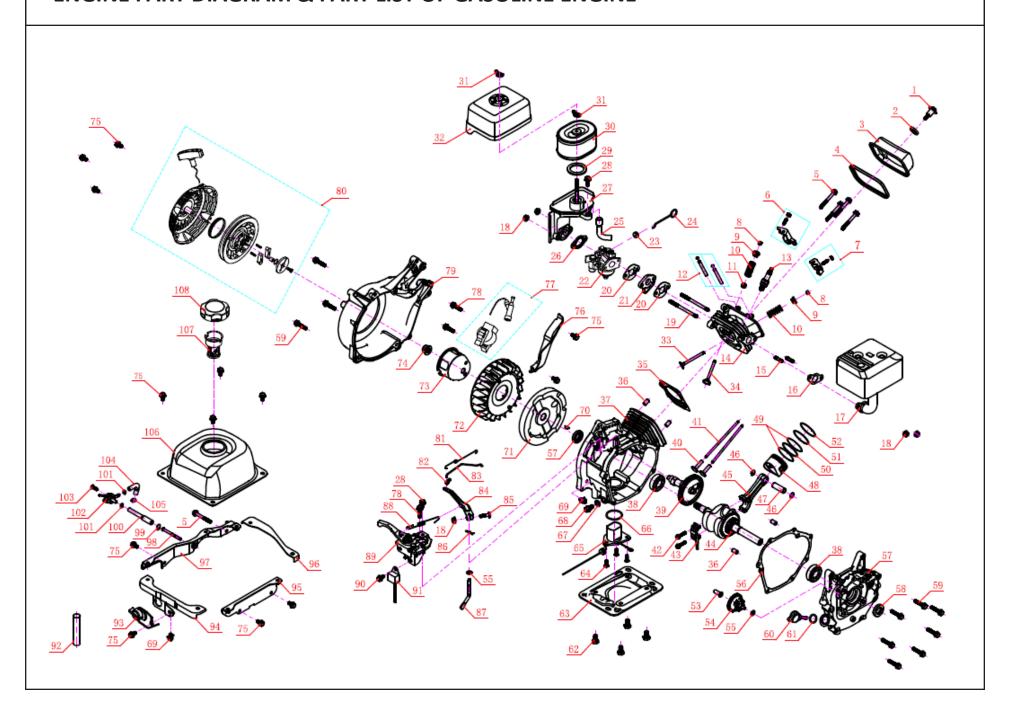
Turn the engine switch to the 'OFF' position.



Turn the fuel valve lever to the 'OFF' position

Note: To stop the engine in an emergency, simply turn the engine switch to the 'OFF' position.

### **ENGINE PART DIAGRAM & PART LIST OF GASOLINE ENGINE**



SL NO.	PART NO	DESCRIPTION	SL NO.	PART NO	DESCRIPTION
1	AM-EN-80D-GE01	Screw Pin	17	AM-EN-80D-GE17	Muffler
2	AM-EN-80D-GE02	Washer	18	AM-EN-80D-GE18	Nut
3	AM-EN-80D-GE03	Cylinder Cover	19	AM-EN-80D-GE19	Stud
4	AM-EN-80D-GE04	Cylinder cover Gasket	20	AM-EN-80D-GE20	Carburetor Gasket
5	AM-EN-80D-GE05	Screw	21	AM-EN-80D-GE21	admitting pipe
6	AM-EN-80D-GE06	Intake Cover arm	22	AM-EN-80D-GE22	Carburetor
7	AM-EN-80D-GE07	Exhaust armer rock	23	AM-EN-80D-GE23	Choke lever Sleeve
8	AM-EN-80D-GE08	Valve locker	24	AM-EN-80D-GE24	Chike lever
9	AM-EN-80D-GE09	Valve spring seat	25	AM-EN-80D-GE25	Balancing Pressure pipe
10	AM-EN-80D-GE10	Valve spring	26	AM-EN-80D-GE26	Air Filter Gasket
11	AM-EN-80D-GE11	Valve oil seal	27	AM-EN-80D-GE27	Air Filter Seat
12	AM-EN-80D-GE12	Rocker Pin	28	AM-EN-80D-GE28	Screw
13	AM-EN-80D-GE13	Spark Plug	29	AM-EN-80D-GE29	Air Filter net gasket
14	AM-EN-80D-GE14	Cylinder	30	AM-EN-80D-GE30	Air Filter net
15	AM-EN-80D-GE15	Stud	31	AM-EN-80D-GE31	Buttrfly Nut
16	AM-EN-80D-GE16	Muffler Gasket	32	AM-EN-80D-GE32	Air Filter Cover

SL NO.	PART NO	DESCRIPTION	SL NO.	PART NO	DESCRIPTION
33	AM-EN-80D-GE33	Intake Valve	49	AM-EN-80D-GE49	Doctor Bar
34	AM-EN-80D-GE34	Exhaust Valve	50	AM-EN-80D-GE50	Backing Ring
35	AM-EN-80D-GE35	Cylinder Gasket	51	AM-EN-80D-GE51	Second Piston Ring
36	AM-EN-80D-GE36	Hollow Pin	52	AM-EN-80D-GE52	First Piston Ring
37	AM-EN-80D-GE37	Crankcase	53	AM-EN-80D-GE53	Top Sleeve
38	AM-EN-80D-GE38	Bearing	54	AM-EN-80D-GE54	Governor
39	AM-EN-80D-GE39	Cam Wheel	55	AM-EN-80D-GE55	Washer
40	AM-EN-80D-GE40	Valve Tappet	56	AM-EN-80D-GE56	Cylinder side cover Gasket
41	AM-EN-80D-GE41	Tappet	57	AM-EN-80D-GE57	Crankcase Side cover
42	AM-EN-80D-GE42	Screw	58	AM-EN-80D-GE58	Oil Seal
43	AM-EN-80D-GE43	Rod cap	59	AM-EN-80D-GE59	Screw
44	AM-EN-80D-GE44	Cranksahft Assy	60	AM-EN-80D-GE60	Oil Seal
45	AM-EN-80D-GE45	ConnectingRod Body	61	AM-EN-80D-GE61	O-Ring
46	AM-EN-80D-GE46	Piston Ring	62	AM-EN-80D-GE62	Screw
47	AM-EN-80D-GE47	Piston pin	63	AM-EN-80D-GE63	Floor
48	AM-EN-80D-GE48	Piston	64	AM-EN-80D-GE64	Screw

SL NO.	PART NO	DESCRIPTION	SL NO.	PART NO	DESCRIPTION
65	AM-EN-80D-GE65	Fuel Level Sensor	81	AM-EN-80D-GE81	Throttle Spring
66	AM-EN-80D-GE66	O-ring	82	AM-EN-80D-GE82	Throttle Lever Sleeve
67	AM-EN-80D-GE67	Washer	83	AM-EN-80D-GE83	Throttle lever
68	AM-EN-80D-GE68	Screw	84	AM-EN-80D-GE84	Winding Lever
69	AM-EN-80D-GE69	cable Clip	85	AM-EN-80D-GE85	Screw
70	AM-EN-80D-GE70	Кеу	86	AM-EN-80D-GE86	R Pin
71	AM-EN-80D-GE71	Fly Wheel	87	AM-EN-80D-GE87	Switch Lever
72	AM-EN-80D-GE72	Fan	88	AM-EN-80D-GE88	Governing Spring
73	AM-EN-80D-GE73	Starter Reel	89	AM-EN-80D-GE89	Switch
74	AM-EN-80D-GE74	Nut	90	AM-EN-80D-GE90	Screw
75	AM-EN-80D-GE75	Screw	91	AM-EN-80D-GE91	Amplifier
76	AM-EN-80D-GE76	Baffle	92	AM-EN-80D-GE92	Heatproof lagging
77	AM-EN-80D-GE77	Ignition Coil	93	AM-EN-80D-GE93	On/Off Switch
78	AM-EN-80D-GE78	Screw	94	AM-EN-80D-GE94	Rear Bracket
79	AM-EN-80D-GE79	Flywheel Cover	95	AM-EN-80D-GE95	Front Bracket
80	AM-EN-80D-GE80	Recoil Starter	96	AM-EN-80D-GE96	Left Bracket

SL NO.	PART NO	DESCRIPTION	SL NO.	PART NO	DESCRIPTION
97	AM-EN-80D-GE97	Right Bracket			
98	AM-EN-80D-GE98	Fuel Tank filter element			
99	AM-EN-80D-GE99	Locking clip			
100	AM-EN-80D-GE100	Oil Pipe			
101	AM-EN-80D-GE101	Locking clip			
102	AM-EN-80D-GE102	Gasoline valve switch			
103	AM-EN-80D-GE103	Screw			
104	AM-EN-80D-GE104	L Oil Pipe			
105	AM-EN-80D-GE105	Locking clip			
106	AM-EN-80D-GE106	Fuel Tank			
107	AM-EN-80D-GE107	Fuel Tank Strainer			
108	AM-EN-80D-GE108	Fuel Tank Lid			

### **INSPECTION & MAINTAINANCE**

For safety use, make sure the machine is cleaned every three months. Before working, make sure to inspect the filter and the nozzel and ensure there is no imurity. 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 mucnipal waste, use seperate collection facilities.

If electrical machines are disposed of in landfills or dumps, hazaardous 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 ter	ms and conditions of warranty as in the warran	nty card	
• • • • • • • • • • • • • • • • • • • •	DEALERS COPY	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
DATE	DATE OF DELIVERY	DEALERS OFFICIAL SEAL	DEALERS SIGN
PURCHASERS NAME & ADDRESS			
	— CUSTOMER SIGN		
PRODUCT NAME	PRODUCT SERIAL NO. INVOICE/DN NO.		NO.
I/Will accept the term	s and conditions of warranty as in the warrant	y card	
	COMPANY COPY	DEALERS OFFICIAL OF AL	DEALERS SIGN
DATE	DATE OF DELIVERY	DEALERS OFFICIAL SEAL	DEALERS SIGN
PURCHASERS NAME & ADDRESS			
	<ul><li>CUSTOMER SIGN</li></ul>		
PRODUCT NAME	PRODUCT SERIAL NO.	INVOICE/DN N	1O.
_ := :=:44	ns and conditions of warranty as in the warrant	,	

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-imbursement. 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

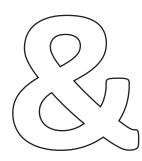
#### WARRANTY null & void if

- (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 SEA	AL OPERATIONS						
	1. Check and test the fuel mixture 2. check and clean the air filter 3. Check, clean and adjust the spark plug 5. Check and sparken the cutting tools 6. Product familirisation on usage 7. Start and check the noise, vibration, loosen etc 8. Routine maintenance and shortage.						
	FREE SERVICE COUPON (30DAYS/30HRS. WHICHEVER IS EARLIER						
MODEL	SERIAL NUMBER						
PDI DATE	SERVICE NO. PURCHASE BILL NO. DATE						
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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
- B. 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





### **IMPORTED & MARKETED BY,** RATNAGIRI IMPEX PVT., LTD.,

Annapurna House, #1 / 1G, 7th Cross, New Guddadahalli Mysore Road, Bangalore - 560 026

Missed Call: 7393 938 938 Email: ask@agrimart.in