

USER MANUAL

AGRIMATE FLAIL MOWER AM-FM-4024DGB-7HP



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.

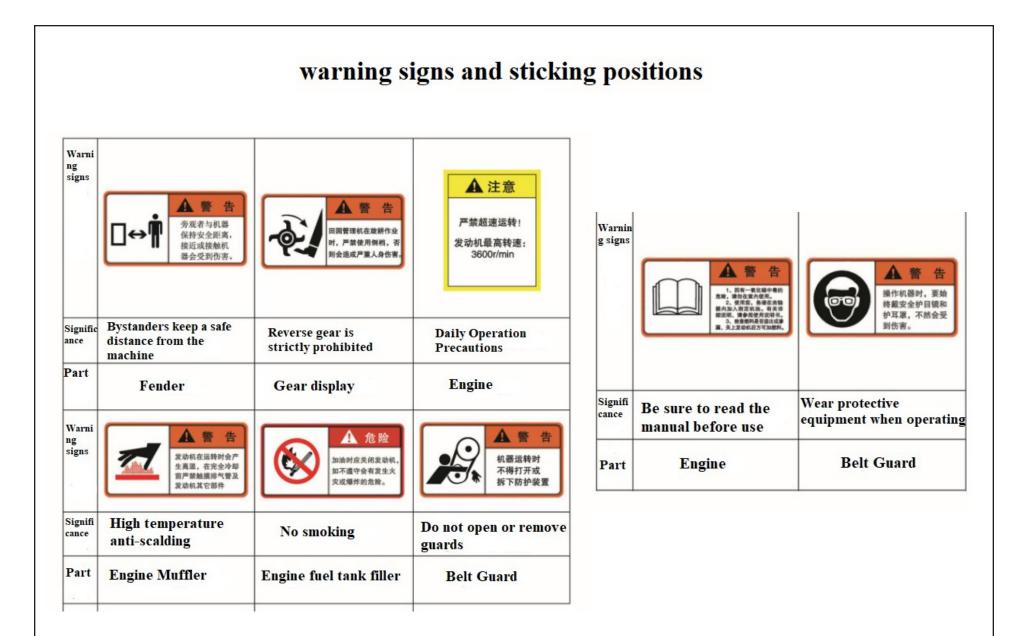
TECHNICAL SPECIFICATIONS

Model	AM-FM-4024DGB-7HP
Engine	AM-170F
Weeding width	40CM
No of Blades	24 Blades
Displacement	252CC

Safety protection and precautions

WARNING Be sure to read this manual carefully before use, and master the safety precautions, especialthe handling method in emergency, which is more important than mastering the normal method! lv use machine until CAUTION Do not operate the after training, otherwise injury result! mav Warning Do not operate in dim light conditions! Warning It is strictly forbidden to operate under the condition of drinking, fatigue and bad mental state! Note Before starting the engine, the shift lever should be placed in the "neutral" position and the clutch should be disengaged! Note Before shifting gears, the clutch must be disengaged and the accelerator should be reduced to idle speed! WARNING The machine is not set to reverse gear, it must be running at a low speed, and you must observe in advance that there are no obstacles behind you! There are no factors such as dangling that hinder backward running! Then squeeze the clutch, the machine stops moving forward and remains stationary, and pulls the machine backward. Failure to do so may cause serious personal injury! machine is equipped with knives, weeding wheels and other tools, it is Warning When the strictly forbidden to approach people within 1.5 meters on the left and right sides and 5 meters in front! WARNING During operation, if you encounter obstacles and cannot move, or the machine overturns, if you need other people to approach to assist in lifting or pulling, the clutch must be disconnected first! Shut off the engine!

WARNING Do not leave the clutch during operation, and be prepared for emergency disconnection at any time! WARNING Fuel is flammable and explosive and must be protected against fire! When adding gasoline, the engine must be turned off and in a well-ventilated area. If you refill gasoline in the middle of use, the engine should be cooled first! Warning Do not touch the flywheel, belt and other moving parts! It is strictly forbidden to touch the parts with high temperature! It is strictly forbidden to change the security settings of the machine itself!

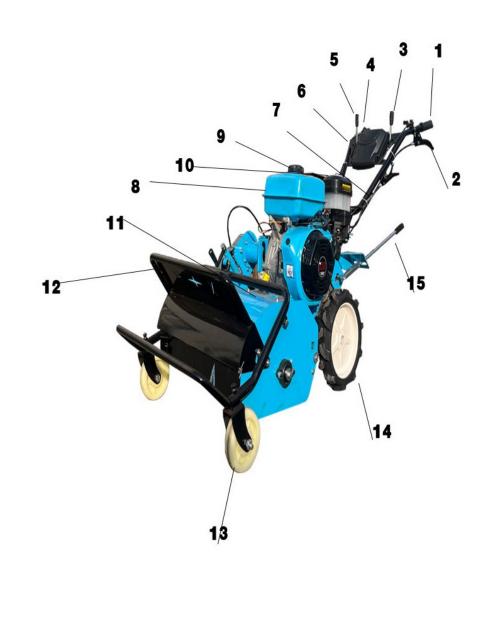


Chapter 1 Main Features and Technical Parameters

The newly developed pastoral management machine of our company has high technical content and has unparalleled advantages over other similar machines. The main features are:

- 1. Small size, light weight, saving time and effort when working.
- 2. Multi-function, can weeding, ditching and other operations.
- 3. Good economy, extremely low fuel consumption, suitable price.
- 4. Flexible operation, the handle can be adjusted up and down, left and right, and the working width can be adjusted.
- 5. The scope of application can be widely used in the field management of various economic crops in greenhouses, orchards, gardens, mountainous areas, hills and plain plots, suitable for loam, clay, light clay, dry fields, paddy fields, not suitable for more stones land. At the same time, it can also be used for land reclamation and weeding, garden weeding, forest fire isolation belt and other operations, and the effect is good.
- 6. Advanced performance and reliable quality.

MAIN STRUCTURE & COMPONENTS NAMES



handle bar
 main clutch
 Walking clutch
 Walking clutch
 throttle control
 work box clutch
 engine switch
 handle adjusting wire
 fuel tank
 silencer muffler
 filter
 work box
 preventer plate
 guide wheel
 walking wheel
 shift lever

Chapter 3 Inspection and Adjustment

When the pastoral management machine (hereinafter referred to as: machine) leaves the factory, the factory has already carried out routine adjustment. However, before using the machine, users should check and adjust each mechanism so that the machine can be used better.

1. Daily inspection

a. Check the engine oil Note: The normal refueling amount of the engine oil: 0.5L for the 170F engine; if the engine oil level is lower than the normal state, the engine will be seriously damaged!

b.Place the engine in a horizontal position.

c.Turn out the engine oil dipstick and wipe it clean (see Figure 2)

d. Insert the oil dipstick into the injection hole (do not need to be rotated).

e. Take out the oil dipstick and check the oil level. The oil level is normal if the oil level is within 1/2 of the marked range of the oil dipstick.

Note: The recommended general purpose lubricant is SF15W-40, suitable for normal ambient temperature. Note: Please use clean, high-quality four-stroke engine oil. If you use unclean oil or other grades of oil, the service life of the engine will be shortened.

2. Check the gear oil in the transmission box Note: The gearbox has been filled with gear oil when the machine leaves the factory. It must be observed during use. If it is missing, it needs to be filled to the required level

3.Check the filter Air filter is divided into dry type and oil type, which should be clean under normal circumstances. The filter element of the dry filter can be blown off with an air gun if there is little dust, and it needs to be replaced when there is a lot of dust, but it cannot be cleaned. Oil-type dust can be cleaned when there is a lot of dust. After cleaning, it needs to be dried before being put back.

CAUTION If the filter element is too dusty or damp, it will prevent the air from entering the carburetor, causing the engine to emit black smoke and making the engine weak. At this time, the air filter element should be replaced or the sponge in the filter should be cleaned.

NOTE: Never run the engine without the air filter installed, as this will accelerate engine wear.

Chapter 4 Operation and Use

WARNING The selector lever must be in the neutral position before the engine can be started. Be in an open space to prevent poisoning by toxic gases such as carbon monoxide emitted by the engine. Make sure that there are no flammable objects around and no objects that hinder movement.

1.Start-up steps

1)Fill the fuel tank with gasoline WARNING Fuel is flammable and explosive. Fireworks are strictly prohibited when refueling. If you need to add fuel during use, turn off the engine to cool down and place it in a well-ventilated place. If fuel overflows or spills out of the fuel tank during refueling, wipe it clean before starting.

2)Turn on the fuel switch, as shown by the arrow in Figure

3) Open the throttle to 1/3.

4) Put the damper in the closed position (open after starting)

After starting, slowly reduce the throttle to idle speed, run for at least tens of seconds, and then adjust the throttle to the desired position after stabilization, and start the operation.

Shifting and clutching

(1) Hold the clutch handle tightly and disconnect the clutch. When the clutch handle is closed, it is in the disconnected state, and when it is released, it is in the connected state. The clutch must be disengaged when shifting gears!

(2) Swing the shift lever to shift to the desired gear

(3) Slowly release the clutch handle and start running.

(4) When working, adjust the throttle appropriately to carry out the work.

WARNING During operation, your hands cannot leave the handlebars or the accelerator handle. In case of emergency, hold the clutch handle immediately, the machine will stop working, and the ignition device will be pressed to the OFF position, the machine will turn off and stop running.

WARNING During operation, bystanders should keep a safe distance! It is strictly forbidden to approach within 1.5 meters on both sides and within 5 meters in front!

Warning When running with knives, weeding wheels and other knives, do not lift the handle too high to prevent the human body from getting too close to the knives and causing accidents!

WARNING During operation, if there is an obstacle that cannot move forward or overturns, and other people are needed to assist in pulling or lifting, the engine must be turned off first! Especially when working with knives!

WARNING Do not use the machine in a small or closed space. The gas emitted by the engine contains carbon monoxide and other toxic components, which can cause death in severe cases!

Note: The machine has two clutches, the walking clutch and the grass box clutch. Before shifting the gear, you must hold the handle tightly to keep the machine in a stationary state. Engage the travel clutch and engage the grass box clutch. The clutch of the broken grass box must be closed slowly, not too fast, otherwise the machine will easily stall due to the excessive load. Shut down the engine

(5) Commissioning before use 1. After the inspection of the machine is completed, the engine should be turned on, the crushing box should be lifted, and the crushing box should be idling at high speed for about 5 minutes, and then check to confirm that all parts are in good condition.

2. Adjust the clutch and belt tension everywhere, especially the clutch state of the crushing box, it should not be too tight or too loose.

3. Hang the gear to run without load for about 5 minutes, and test each gear to confirm that the pin shaft and pin opening of the crushing knife shaft are firmly installed and cannot touch the inner wall of the crushing box.

4. Check that everything is normal before proceeding with the operation.

Note: Do not stand in front of the machine to smash the box to prevent the blade from flying out or other flying objects hurting people.

1. During operation, after starting the machine, first lift the crushing box to a height of 5 ~ 10cm from the ground of the moving knife (the lifting position should not be too high), close the clutch of the crushing box, perform no-load rotation for 1 ~ 2 minutes, and then hang it up In the working gear, slowly release the clutch to work (you can firstly hold the clutch by hand, start the machine slowly, and after the machine runs normally, close the swing clutch and release the hand clutch), and observe the stubble height. After the machine is stopped, the clutch of the crushing box can be separated to stop the operation of the cutter shaft of the crushing box, and then the height adjustment handle of the crushing box can be adjusted to the required stubble height, then increase the throttle and put it into normal operation.

2. During the operation, it is forbidden to throw the knife and hit the soil to prevent the failure caused by the infinite increase of torque. If it is found that the knife is thrown and the soil is broken, the height adjustment handle of the crushing box should be adjusted after the machine is stopped to achieve a suitable height.

Note: When adjusting the height handle of the crushing box, be sure to stop the car, put it in neutral, and the clutch of the crushing box must be disengaged to ensure that the cutter shaft is in a static state.

3. When turning, the crushing box should be lifted, the clutch of the crushing box should be separated, and the walking wheel should be used for steering. After turning, the landing work should be done. Pay attention to stability when landing, and then close the clutch of the crushing box for normal work.

NOTE: Reverse gear is not allowed on the job. When transferring the machine, it must be ensured that the machine is turned off and the clutch of the crushing box is separated.

4. During the operation, attention should be paid to removing the tangled grass in time, and avoiding obstacles such as soil ridges, stones, and tree stumps.

5. If you hear any abnormal noise during operation, stop the machine immediately and turn off the engine for inspection. Continue the operation after troubleshooting.

Chapter 5 Maintenance

WARNING Stop the engine before performing any maintenance. To prevent the engine from being started accidentally, the engine throttle should be placed at the minimum position.

WARNING The field manager should be serviced by an authorized dealer unless the user has the proper tools, service information, and mechanic capability.

CAUTION Use genuine original series engine parts or their equivalents, use of poor quality substitutes will damage the farmer.

In order to maintain the excellent performance of the pastoral management machine, it must be checked and adjusted regularly. Regular maintenance also ensures a long service life.

During the operation of the pastoral management machine, due to the change of operation, friction and wear and load, the phenomenon of loose connecting bolts and wear of parts will inevitably occur, which will destroy the normal state of the system, cause abnormal matching clearance, reduce engine power, and increase fuel consumption. In order to reduce the occurrence of the above situation, it is necessary to strictly and regular-ly perform "prevention-based" maintenance work to keep the pastoral management machine in good condition. state of technology, extending its service life.

2. Long-term storage

When the pastoral management machine needs to be stored for a long time, in order to prevent corrosion, the following measures should be taken.

1. Seal the engine according to the requirements of the engine instruction manual.

2. Clean the surface dust and dirt.

3. Drain the lubricating oil in the transmission case and inject new oil.

4. Apply anti-rust oil to the unpainted areas of non-aluminum alloy surfaces.

5. Store the machine in a ventilated, dry and safe place indoors.

6. Properly keep the random tools, product certificate and instruction manual.

3. Running-in:

The new or overhauled pastoral management machine should first work under no-load conditions for half an hour, and after 5 hours of work under light-load conditions, immediately release all the lubricating oil in the engine crankcase while hot, and then press Chapter 3\one part\2 Program inject oil for 4 hours of running-in, and then your pastoral management machine can be put into normal operation.

4. Maintenance of the engine part

1) Daily inspection and maintenance mainly include: checking whether there are loose bolts, oil leakage, cleaning dirt, etc. on the engine, and eliminating the faults found during operation.

2) Cleaning of the fuel filter: every six months or after 500 hours of use, take out the fuel tank filter for cleaning, remove the fuel drain screw at the bottom of the fuel tank, and drain the fuel and impurities in the fuel tank.

3) Replace the oil filter element: every 250 hours of use, remove the oil filter for cleaning, dry it and put it back.

4) Oil change: The oil needs to be changed after 20 hours of first use, and after every 100 hours of use, the oil needs to be changed.

5) Replace the air filter element: every six months or 500 hours of use, the filter element needs to be replaced. If the filter element of the air filter is blocked or wet, the air entering the engine will be reduced, and the fuel combustion in the engine will be affected, resulting in insufficient power and black smoke, and the engine will not be easy to start. Therefore, the filter element needs to be cleaned frequently. The cleaning of the dry filter element cannot be cleaned with a cleaning agent, but needs to be blown with air or a soft brush; the oil filter element can be cleaned with a cleaning agent, and then put back after drying.

SL NO	PART NO	DESCRIPTION	IMAGES
1	AM-FM-4024DGB-TA01	Clutch cable (with handle)	
2	AM-FM-4024DGB-TA02	Adjustable pull cord (with handle)	
3	AM-FM-4024DGB-TA03	Rotary Weeding Pull Line	
4	AM-FM-4024DGB-TA04	Throttle cable (including throttle control arm)	
5	AM-FM-4024DGB-TA05	Clutch handle	
6	AM-FM-4024DGB-TA06	Depth wheel handle	E

SL NO	PART NO.	DESCRIPTION	IMAGES
7	AM-FM-4024DGB-TA07	Belt tensioner	
8	AM-FM-4024DGB-TA08	The travel pulley(under)	
9	AM-FM-4024DGB-TA09	The travel pulley(up)	
10	AM-FM-4024DGB-TA10	Knife barrel pulley	0
11	AM-FM-4024DGB-TA11	Knife barrel pulley under	
12	AM-FM-4024DGB-TA12	Rotating belt	\bigcirc

SL NO	PART NO	DESCRIPTION	IMAGES
13	AM-FM-4024DGB-TA13	Gearbox belt	\bigcirc
14	AM-FM-4024DGB-TA14	Blades	
15	AM-FM-4024DGB-TA15	Bearing	
16	AM-FM-4024DGB-TA16	Bearing	
17	AM-FM-4024DGB-TA17	Height adjuster	
18	AM-FM-4024DGB-TA18	Gearbox	Contraction in the second

SL NO	PART NO	DESCRIPTION	IMAGES
19	AM-FM-4024DGB-TA19	Oil seal	
20	AM-FM-4024DGB-TA20	Handle	
21	AM-FM-4024DGB-TA21	Front lawn	
22	AM-FM-4024DGB-TA22	Clutch lever bracket	
23	AM-FM-4024DGB-TA23	Gear lever assembly	

WARRANTY CARD

CUSTOMER COPY

DATE		DATE OF DELIVERY	DEALERS OFFICIAL SEAL	DEALERS SIGN
PUF	CHASERS NAME & ADDRESS			
		CUSTOMER SIGN		
			_]
PR	ODUCT NAME	PRODUCT SERIAL NO.	INVOICE/DN	NO.
	I/Will accept the term	as and conditions of warranty as in the warran	nty card	
•••••	•••••••	DEALERS COPY	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
DATE		DATE OF DELIVERY	DEALERS OFFICIAL SEAL	DEALERS SIGN
PURC	CHASERS NAME & ADDRESS			
		- CUSTOMER SIGN		
PRO	DUCT NAME	PRODUCT SERIAL NO.	INVOICE/DN 1	NO.
	I/Will accept the terms	and conditions of warranty as in the warrant	y card	
DATE		COMPANY COPY DATE OF DELIVERY	DEALERS OFFICIAL SEAL	DEALERS SIGN
	HASERS NAME & ADDRESS			
		CUSTOMER SIGN		
		COSTONIERSIGN		
PRO	DUCT NAME	PRODUCT SERIAL NO.	INVOICE/DN N	10.
	I/Will accept the terms	and conditions of warranty as in the warrant	ty card	

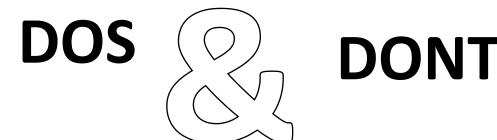
1.LIMITED WARRANTY PERIOD : For a period of six months from the date of Sale / delivery of the product which ever is earlier. 2. LIMITED WARRANTY OBLIGATION : Replacement of defective part(s) by authorized dealer are free of charges. If found defective by reasons of defective material / poor workmanship, parts will be replaced and there will be no value re-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 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. 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1st service coupon

ISO 9001 : 2015 CERTIFIED COMPANY

	FREE SERVICE COUPON (3	ODAYS/30HRS. WHICHEV	/ER IS EARLIER
MODEL		SERIAL NUMBER	
PDI DATE	SERVICE NO.	PURCHASE BILL NO.	DATE
DEALERS OFFICE SEAL			OPERATIONS
	 Check and test the fuel mixtur Check , clean and adjust the sp Check and sparken the cutting Start and check the noise, vibration 	ark plug4. Ctools6.P	heck and clean the air filter Check and adjust the carburetor tuning Product familirisation on usage Routine maintenance and shortage.
	FREE SERVICE COUPON (30	DAYS/30HRS. WHICHEVE	ER IS EARLIER
		SERIAL NUMBER	
MODEL PDI DATE	SERVICE NO.	PURCHASE BILL NO.	DATE
DEALERS OFFICE SEAL		(DPERATIONS
	 Check and test the fuel mixture Check , clean and adjust the spa Check and sparken the cutting Start and check the noise, vibra 	ark plug4. Ctools6.P	neck and clean the air filter heck and adjust the carburetor tuning roduct familirisation on usage Routine maintenance and shortage.
	FREE SERVICE COUPON (30)	DAYS/30HRS. WHICHEVE	R IS EARLIER
MODEL PDI DATE	SERVICE NO.	SERIAL NUMBER PURCHASE BILL NO.	DATE
DEALERS OFFICE SEAL	 Check and test the fuel mixtur Check , clean and adjust the sp Check and sparken the cutting Start and check the noise, vibr 	re 2. c ark plug 4. C g tools 6.F	OPERATIONS heck and clean the air filter Check and adjust the carburetor tuning Product familirisation on usage Routine maintenance and shortage.



DONTS

attempting to use the equipments.

1. Always read the instruction manual supplied along with the equipments and understand the correct installation and operating procedures before

trousers and jackets while operating potentially dangerous machines

2. It is important to use the personal protection equipments such as head helmet with visor, ear defenders, goggles, safety gloves, cut resistant shoes,

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. For more query kindly contact for our Service Center/Dealer/ franchise

