

Warranty Certificate

(KISANKRAFT COPY)

Incidental / Consequential Loss: KisanKraft Limited or its manufacturers will not be liable for general damages, including bodily injuries, or for incidental or consequential damages including, but not limited to, loss of use, loss of profits, loss of production, expense of substitute equipment or other commercial loss or damage.

Limitation of Liability: This limited warranty is in lieu of all other express warranties, obligations, or liabilities. Any implied warranties, obligations or liabilities, including, but not limited to, any implied warranty of merchantability shall be limited in duration to the applicable warranty period. Any action for breach of any warranties hereunder, including, but not limited to, any implied warranty of merchantability must be brought within the applicable warranty period.

Modifications of Warranty: No agent, representative, dealer, or employee of KisanKraft Limited or any of its manufacturers has the authority to increase or alter the obligations of this warranty.

Assignment / Transfer of warranty: The warranty cannot be assigned and shall not transfer if the product is resold by the first buyer. The above warranties are extended to the first end user (original purchaser), and no warranty is made, nor authorized to be made assignable on resale by the first end user.

What you must do to obtain limited warranty service: To obtain performance of any obligation under this warranty for failure during the applicable warranty period, you must deliver the defective product, to the nearest Authorized Dealer, along with proof-of-purchase (invoice/receipt). KisanKraft Limited, its manufacturers and its dealers reserve the right to inspect the claimed defective part(s) to determine if the malfunction is the result of a defect covered by this warranty. Please note that the decision of KisanKraft Limited with respect to any warranty claim is final.

After-sales Service (Including Warranty): KisanKraft Limited does not sell directly to consumers. All sales or supplies are made through Authorized Dealers. It is the responsibility of the Authorized Dealer to provide all after-sales service to consumers. Any warranty claim should be raised by dealer to KisanKraft Limited as per warranty policy.

Jurisdiction: All disputes are subject to Bangalore court's jurisdiction.

Notes:

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- > Any product once used will not be taken back by KisanKraft Limited.
- Warranty and After Sale Services (including but not limited to installation, Demonstration, Repair, Routine Maintenance etc.), should be done through the Authorized Dealer selling this product.
- Dealers should have their own technician to provide After Sales Services to their Customers. KisanKraft Limited provides free training to Authorized Dealer's technicians at KisanKraft Limited's head office, on request from Authorized Dealer.

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Warranty Certificate

(DEALER COPY)

Product	AGRICULTURAL INTERCULTIVATOR / POWER WEEDER	KisanKraft Invoice Date	
Brand	KisanKraft	KisanKraft Invoice No.	
Model	□ KK-IC-312P		
WARRANTY PERIOD	6 MONTHS	FOR THE SPECIFIE OF SALE OR DELIVE EARLIER.	D PERIOD FROM THE DATE ERY WHICHEVER IS
Dealer's Invoice Date		Dealer's Invoice No.	
Buyer's Info (Name, Address, Phone, etc.):		Dealer's Stamp (A	ddress, Phone, TIN, etc.):
Buyer's Sign		Dealer's Sign	

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(1) Operation of product with incorrect fuel or lubricants, (2) Incorrect usage of machine or misuse, (3) Lack of maintenance, (4) Negligence, (5) Accident or physical damage, (6) Repairs made by unauthorized parties and/or with unauthorized parts, (7) Improper set up, adjustments, tampering or altered products (8) Any modification to the product what-so-ever.

Important: (1) Normal maintenance and adjustments to the product is the responsibility of the customer. (2) Normal wear and tear are not covered under warranty. (3) Rubber/plastic parts and consumables such as blades, clutch and clutch-bell, sparkplugs, nylon line, air-filters, fuel-filters, oil seals and gaskets etc. are not covered under the warranty. (4) Electrical Motor, Electrical Parts, Battery Etc. are not covered under the warranty.

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Wide Range of Products for Every Need



For more information give MISSED CALL: 07676065555



Many of our products have BIS: ISI certification.



User Manual



KK-IC-312P

KisanKraft Limited

Warehouse: 818 3B1 to 818 3B18, Podalakur - Sangam Road, Prabagiripatnam, Podalakur, Nellore - 524345, Andhra Pradesh, INDIA

Head Office: Sri Huchhanna Tower, #4,1st Main,7-A Cross, Maruthi Layout, Dasarahalli, HAF Post, Hebbal, Bangalore 560024, Karnataka, INDIA

- ◆ Bangalore (HO) ◆ Ahmedabad ◆ Bhopal ◆ Bhubaneswar ◆ Coimbatore
 - ♦ Guwahati ♦ Hyderabad ♦ Nellore ♦ Jaipur
 - ♦ Karnal ♦ Kolkata ♦ Lucknow ♦ Pune ♦ Raipur





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PRODUCT RANGE

KisanKraft has a large range of products to serve the farmers. A list of our products is given below:

Brush Cutters and Accessories

Brush Cutter/Power Weeder

Backpack Brush Cutter

Tea Pruner

Pole pruner with Engine

Reaper Attachment

Blades-Circular

Blades (2 &3 points)

Baffle

Nylon Rope

Tap & Go

Chainsaws

Petrol Chainsaw

Electric Chainsaw

Chain Sharpening Machine

Engines and Water Pumps

Engine - Diesel-(Horizontal)

Engine -Diesel(Vertical)

Engine-Kerosene

Water Pump with Petrol Engine

Water Pump with Kerosene Engine

Water Pump with Diesel Engine

Hand Tools

Secateurs

Folding Saw

Garden Rake

Garden Shovel

Hedge Shear

Lopper

Telescopic Hedge Shear

Telescopic Lopping Shear

Tree Pruner

Telescopic Steel Pipe & Fruit Picker Bag

Sheep Shear

Garden Tools

Electric Pressure Washer

Hedge Trimmer

Lawn Mower (Electric, Petrol & Manual)

Leaf Blower

Cultivators and Accessories

Petrol and Diesel

Sprayers and Accessories

Battery Sprayer

Portable Power Sprayer

Trolley Sprayer

Manual Knapsack Sprayer

Manual Pressure Sprayer

Rose Cans

Hose Crimping Machine

HTP Sprayer

HTP Delivery Hose

HTP Hose Reel

HTP Stand

HTP Gun / Lance(Brass Rod

Knapsack Power Sprayer

Mister / Duster / Granule Spreader

HTP Sprayer Set with Diesel Engine

HTP Sprayer Set with Kerosene Engine

Fogging Machine

Milking Machine

Wood Shredder

Fodder Ensiling Chaff Cutter

Fodder Grinder Chaff Cutter

Fodder Mini Chaff Cutter

Harvester

Maize Sheller

Maize Sheller + Dehusker

Maize Combine Harvester

Onion Digger Carlotta Italy

Tea Leaf Harvester

Sugarcane Combine Harvester

Sugarcane Leaf Stripper

Transplanter and Post Hole Digger

Paddy Transplanter (2 & 8 Rows) Transplanter-Vegetable & Tobacco Post Hole Digger(4" to 14"Augers)

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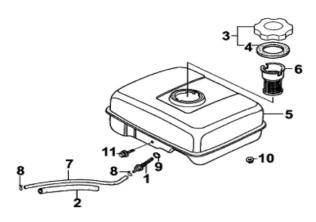


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Fuel tank



SL-No	KK-No	KK-Name	Qty
1	E15-01	Fuel outlet joint	1
2	E15-02	Sleeve Fuel pipe	1
3	E15-03	Fuel tank cap	1
4	E15-04	Gasket Fuel tank Cap	1
5	E15-05	Fuel tank	1
6	E15-06	Fuel Filter	1
7	E15-07	Fuel Tube M4.5×140	1
8	E15-08	Clip Fuel tube	2
9	E15-09	0-ring 14mm (Fuel outlet joint)	1
10	E15-10	Nut M6 Flanged	2
11	E15-11	Bolt M6x30 Flanged Hex	1

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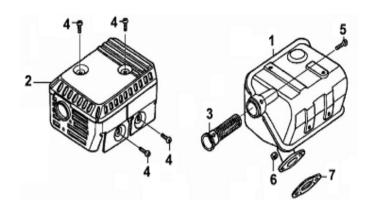




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Muffler



SL-No	KK-No	KK-Name	Qty
1	E14-01	Muffler Assy	1
2	E14-02	N/A	1
3	E14-03	N/A	1
4	E14-04	Screw M5 x 8	4
5	E14-05	N/A	1
6	E14-06	Nut M8	2
7	E14-07	Gasket Muffler	1



SL-No	KK-No	KK-Name	Qty
7	E13-07	N/A	2
8	E13-08	N/A	1
9	E13-09	Air Cleaner Seat Assy	1
10	E13-10	Butterfly nut M6	2
11	E13-11	Nut M6	2
12	E13-12	ST Screw M4 x 12	1
13	E13-13	N/A	1
14	E13-14	N/A	1
15	E13-15	N/A	1
16	E13-16	N/A	1
17	E13-17	N/A	1



AGRICULTURAL INTERCULTIVATOR / POWER WEEDER KK-IC-312P

BEFORE GETTING STARTED

Thank you for purchasing our Inter-cultivator.

- This manual contains information on operation and maintenance of the Inter-cultivator, which is based on the most recent product information available at the time of approval for printing. We reserve the right to make amendments without prior notice and without incurring any obligation for sequences.
- No part of this publication may be reproduced without written permission.
- This manual should be considered a permanent part of the cultivator and remain with it if it is resold.
- Please pay special attention to statements preceded by the following words:

Indicates a strong possibility of severe personal injury or death if instructions are not followed.

Indicates a possibility of personal injury or equipment damage if instructions are not followed.

NOTE

Gives helpful information.

APPLICATION

The Inter-cultivator is suitable for cultivating the sandy soil and clay soil of canopied vegetables base, slopes with gradient less than 10%, paddy field with the depth of water surface to hard layer not more than 250mm. For weedy and deep plots, remove the weeds before using the Inter-cultivator to cultivate the land. Assemble blades on both side of tilling system, and use pin to fixed blades to do tilling work. Take off resistance rod and assemble ditching blade, for ditching work.

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SAFETY INSTRUCTION

Training

- a) Read the instructions carefully. Be familiar with the controls and the proper use of the equipment;
- b) Never allow children or people unfamiliar with these instructions to use the machine. Local regulations can restrict the age of the operator;
- c) Never work while people, especially children, or pets are nearby;
- d) Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.

Preparation

- a) While working, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals;
- b) Thoroughly inspect the area where the equipment is to be used and remove all objects which can be thrown up by the machine;
- c) WARNING Petrol is highly flammable:
 - Store fuel in container specifically designed for this purpose;
 - Refuel outdoors only and do not smoke while refueling;
 - add fuel before starting the engine. Never remove the cap of the fuel tank or add petrol while the engine is running or when the engine is hot;
 - if petrol is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until petrol vapors have dissipated;
 - replace all fuel tank and container caps securely;
- d) Replace faulty silencers;
- e) Before using, always visually inspect to see that the tools are not worn or damaged. Replace worn or damaged elements and bolts in sets to preserve balance.

Operation

- a) Do not operate the engine in a confined space where dangerous carbon Monoxide fumes can collect;
- b) Work only in daylight or in good artificial light;
- c) Always be sure of your footing on slopes;
- d) Walk, never run with the machine;
- e) Exercise extreme caution when changing direction on slopes;
- f) Do not work on excessively steep slopes;
- g) Use extreme caution when reversing or pulling the machine towards you;
- h) Do not change the engine governor settings or over speed the engine:
- start the engine carefully according to manufacturer instructions and with feet well away from the tool(s);
- When start the engine, ensure the Gearshift in neutral position. Do not put hands or feet near or under rotating parts;

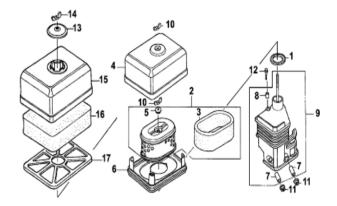
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AGRICULTURAL INTERCULTIVATOR / POWER WEEDER KK-IC-312P

SL-No	KK-No	KK-Name	Qty
6	E12-06	Stop lead	1
7	E12-07	Fly Wheel Assy	1
8	E12-08	Bolt 6 x 25	2
9	E12-09	Nut M14 Fly wheel Assy	1

Air Cleaner

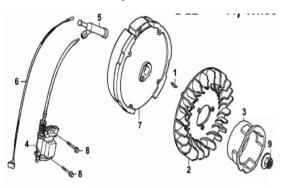


SL-No	KK-No	KK-Name	Qty
	E13	Air Cleaner Assy	1
1	E13-01	Seal Ring 32x47x3	1
2	E13-02	Air Filter Element	1
3	E13-03	N/A	1
4	E13-04	Filter Case	1
5	E13-05	Rubber Fixer	1
6	E13-06	Cover board	1



SL-No	KK-No	KK-Name	Qty
12	E11-12	Quadrate bolt M6x21	1
13	E11-13	Return Spring	1
14	E11-14	Fine Adjustment Spring	1
15	E11-15	N/A	1
16	E11-16	Nut M6 Flanged Nylon	1
17	E11-17	Adjustment Screw	2

Fly Wheel



SL-No	KK-No	KK-Name	Qty
1	E12-01	Woodruff key	1
2	E12-02	Fly Wheel Fan	1
3	E12-03	Starter Sleeve	1
4	E12-04	Ignition Coil Assy	1
5	E12-05	Spark Plug Cap	1



AGRICULTURAL INTERCULTIVATOR / POWER WEEDER KK-IC-312P

- k) Never pick up or carry a machine while the engine is running;
- I) Stop the engine:
 - Whenever you leave the machine;
 - Before refueling;
- m) Reduce the throttle setting during engine shut down and, if the engine is Provided with a Shut-off valve, turn the fuel off at the conclusion of working:
- n) Never load person, when starting at cobbled road sidewalk or on the road, Please keep watch, and note the traffic situation in case of the potential dangers!
- once abnormal condition happens, immediately close the engine! Look for the reason, vibration is often the beginning of the fault
- p) When tilling in the hard land, the blades may lowing the ground, be more careful. If happens, go off the handle bar and not go to control machine

Maintenance and storage

- Keep all nuts, bolts, and screws tight to ensure the equipment is in safe working condition.
- b) Never store the equipment with petrol in the tank inside a building where fumes can reach an open flame or spark.
- c) Allow the engine to cool before storing in any enclosure;
- To reduce the fire hazard, keep the engine, silencer and petrol storage area free of vegetative material and excessive grease;
- e) Replace worn or damaged parts for safety;
- f) If the fuel tank has to be drained, this shall be done outdoors.

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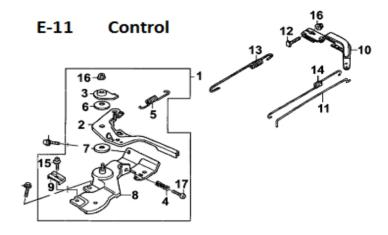
Matters need attention during the use of Intercultivator

- Operator should read this manual before using the machinery, and do the Adjustment and maintenance according to the manual.
- b) Before using the machinery, following items should be paid attention to:
- c) Please add clean fuel, make sure the engine is stopped and in well-ventilated Condition, never let fuel get in touch with high temperature surface rotating Parts or electrical components, never add too much oil in order to avoid Overflowing, if there is fuel spillage or leakage, dry it up before starting the machine, cover up fuel tank cap and tighten it. In case of fire, storage sites and venues are strictly prohibited fireworks,
- d) Check whether the bolt is fixed; any parts are loose or scratches stuck Phenomenon; whether the direction of rotation is consistent with the label mean to.
- e) Check whether external moving parts and rotating parts have reliable safety protection device and safety signs,
- f) Minors without training and master, is not allowed to operate the machine.



AGRICULTURAL INTERCULTIVATOR / POWER WEEDER KK-IC-312P

Control

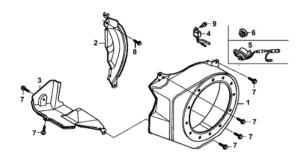


SL-No	KK-No	KK-Name	Qty
1	E11-01	Speed Adjustment Base Ass.	1
2	E11-02	N/A	1
3	E11-03	N/A	1
4	E11-04	Adjustment Spring	1
5	E11-05	Throttle spring	1
6	E11-06	N/A	1
7	E11-07	N/A	2
8	E11-08	N/A	1
9	E11-09	N/A	1
10	E11-10	Speed Adjustment arm	1
11	E11-11	Pulling Rod	1



SL-No	KK-No	KK-Name	Qty
10	E9-10	Starter spring	1
11	E9-11	Friction Spring 16x1	1
12	E9-12	Bolt M6x12 Flanged Hex	3

Fan Cover



SL-No	KK-No	KK-Name	Qty
1	E10-01	Fan cover	1
2	E10-02	Side Plate	1
3	E10-03	Wind guide	1
4	E10-04	Current Amplifier	1
5	E10-05	Engine switch	1
6	E10-06	N/A	1
7	E10-07	Bolt M6x12 Flanged Hex	6
8	E10-08	Bolt M6 x 20 Flanged Hex	1



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2. Safety Labels

 Muffler is a high temperature spare part, do not touch the power tiller in work or out of work freshly.



 When the power tiller is working, keep an eye on the rotary parts, do not be too close to the machine to avoid being hurt by the rotary blades.





3, Keep the components of oil box away from fire and smoke.



4. Keep this machine stabilization
Before Use and Read the instruction
carefully



5. Please refuel in time





6. Please pay attention to warning signs



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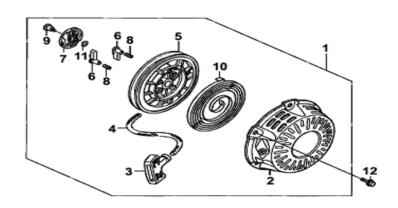
TECHNICAL SPECIFICATION

	Model	KK-IC-312P
	Items	Parameter
Engine	Displacement	212 cc
	Туре	4 Stroke, Petrol Engine
	Rated power	5.22 kW (7 hp)
	Rated speed	3600 RPM
	Fuel Tank	3.6 L
	Max Torque	11 Nm/2500 RPM
	Oil Tank	0.6L
	Bore * Stroke	68*54 mm
	Transmission Model inside transmission)	Gear drive (2 Fwd. 1 Rev)
	Connection type from output shaft to blades)	Coaxial straight-through type
	Speed (r/min)	High gear: 135; slow gear: 90
	Max radius of gyration (mm)	180
	Blades (pcs)	24
	Tilling depth (mm)	≥100
knife	Tilling width (mm)	800
	operating speed (m/s)	0.1~0.3
	Hourly efficiency(hm2/hm)	≥0.04
	Main fuel consumption (kg/hm2)	≤30

^{*} Specifications may change due to improvements, and for reference only, not as the acceptance basis

SL-No	KK-No	KK-Name	Qty
27	E8-27	N/A	1
28	E8-28	N/A	1

Recoil Starter



SL-No	KK-No	KK-Name	Qty
1	E9-01	Recoil Starter Assy	1
2	E9-02	Starter cover	1
3	E9-03	Pulling handle	1
4	E9-04	Rope	1
5	E9-05	Roller/Rope Reel	1
6	E9-06	Ratchet	2
7	E9-07	Ratchet guide	1
8	E9-08	Ratchet Spring	2
9	E9-09	Pivot Bolt	1







SL-No	KK-No	KK-Name	Qty
5	E8-05	Adjustment screw Idle speed	1
6	E8-06	Screw (Fuel Cup)	1
7	E8-07	Tighten bolt (Fuel cup)	1
8	E8-08	Chock Valve Assy	1
9	E8-09	Carburetor Assy	1
10	E8-10	Adjustment Screw Assy (mixture ratio)	1
11	E8-11	Main Nozzle	1
12	E8-12	O-ring 21x2(Sediment cup)	1
13	E8-13	Block, Carburetor/Insulator	1
14	E8-14	Gasket, inlet port	1
15	E8-15	Steel gasket	1
16	E8-16	Gasket carburetor	1
17	E8-17	Hand grip chock valve assy	1
18	E8-18	Handlebar Fuel on/off	1
19	E8-19	Upper cover (Fuel on/off)	1
20	E8-20	Spring Washer-(Fuel on/off)	1
21	E8-21	Fuel Valve	1
22	E8-22	Sediment cup	1
23	E8-23	Screw M3x7	2
24	E8-24	N/A	1
25	E8-25	Main jet	1
26	E8-26	Measure hole Assy idle speed	1



INSTALLATION AND USE METHODS

Installation

Before sending, we did the debugging of the Main part. But before you operate it, you still need some check and adjustment, to make it to the fullest use. Since you get the mini tiller, assemble it as follows:

- 1. Fix the walking wheel to the Six squares opposite ends of the drive shaft respectively
- 2. Assembly of trailer coupling: connect rod assembly in the trailer body, with the connecting pin shaft connection and insert the cotter pin, then insert Subsoil resistance bar.
- 3. Installation of handle pipe: hand the tube opposition tube slots, adjust the height, use lock handle and bolt fixed before you use the power tiller, you'd better check the parts and do some adjustment for better use.

Routine check

- Check engine fuel
- Put the engine in a horizontal position
- Turn out the oil level gauge, Wipe cleanly
- Insert the oil level gauge into the oil passage hole(don't need to turn in the thread)
- Turn out the oil level gauge, check the oil lever, within the Oil scale mark can be thought as normal
- Oil SAE10W-30 is recommended as the general lubricating oil, it suitable to normal environment.

Check the oil of gearbox

- Put the engine in a horizontal position, turn out the oil level gauge (see picture 4)
- Normal adding oil is 1.6L, the line under the lower edge of oil filler point, if oil lever in a low lever, add to the regular lever





Adjust height of handlebar

• Caution: in order to avoid topple over, please put the engine in flat ground before adjusting the height of handlebar. (See picture 5)





Picture 4

Picture 5

 Loosen the regulating handle, choose suitable hole, adjust the height of handle bar to a man's waist, and screw the regulating handle

2. Adjust depth of the rotary tillage

 By adjusting the height of speed control rod, control the depth of rotary tiller, shift down, depth increase; shift up, depth decrease.

3. Start the power tiller

- Put the tiller in neutral gear position, press down handle bar of the emergency power cut off devices, then start the machinery according to this instruction
- Adjust the clutch

Caution: reduce the speed of engine before using clutch.

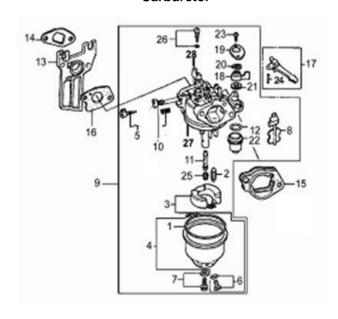
- By adjusting the "separate" or "join" of clutch, to control the output of engine power.
- Grip the clutch, clutch join together, the engine power transport to the power tiller, rotary blazes begin running. (see picture 7)



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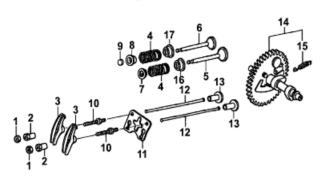
SL-No	KK-No	KK-Name	Qty
14	E7-14	Cam Shaft Assy	1
15	E7-15	N/A	1
16	E7-16	N/A	1
17	E7-17	Inlet valve oil seal	1

Carburetor



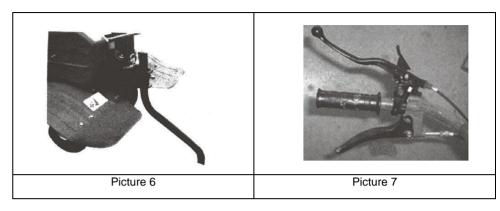
SL-No	KK-No	KK-Name	Qty
1	E8-01	Rubber seal (Fuel cup)	1
2	E8-02	Needle Valve	1
3	E8-03	Fuel Floater	1
4	E8-04	Fuel cup	1

Camshaft

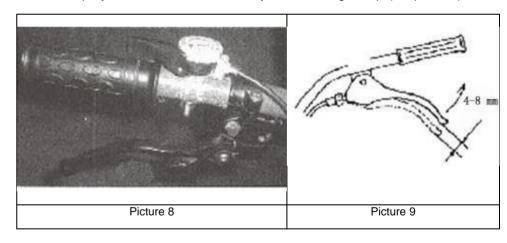


SL-No	KK-No	KK-Name	Qty
	E7-1,2,3,10	Rocker Assy	1
1	E7-01	Buy Rocker Assy	
2	E7-02	Buy Rocker Assy	
3	E7-03	Buy Rocker Assy	
4	E7-04	Valve Spring	2
5	E7-05	Intake Valve	1
6	E7-06	Exhaust Valve	1
7	E7-07	Spring seat Intake Valve	1
8	E7-08	Spring Seat Exhaust Valve	1
9	E7-09	Cap Exhaust Valve	1
10	E7-10	Buy Rocker Assy	2
11	E7-11	Pusher guide	1
12	E7-12	Pusher	2
13	E7-13	Tappet	2





 Confirm the density of clutch cable, 4-8mm can be the general degree, out of the scope, you have to loose locknut for adjustment, and tighten up. (see picture 9)



Gear shifting

Reverse (-1), Forward(1), Neutral(0), Forward(2)

- 4 gear shifting
- The way of gear changes
-) Put the throttle switch to the left (a minimum position) Gear shifting by a clockwise rotation
- 2) Loose the clutch handle to make the clutch separate
- 3) Clench the clutch handle bar. Then the power tiller will work on the different gear shifting, and then step on the gas to the new speed as inquired.

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MAINTAINING METHODS

Because of running, friction and load change, inevitably produce connection bolt looseness, parts damage phenomenon, which make the system's correct state destroyed, the engine 's power decline, fuel consumption increase, increases the normal use of power tiller. In order to reduce the occurrence of the above situation, we must strictly, regularly do the maintenance work well. To keep the micro tillage machine in good technical shape and prolong its service life.

Running-in

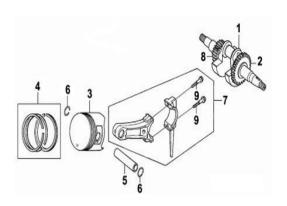
- The running of diesel engine Please consult its user manual.
- new power tiller or repaired power tiller, should work for 1 hour in zero load condition. After 5 hours light load working, run out the whole lubricating oil of the transmission and

crankcase of diesel engine at once while the temperature is hot, and then conduct 4 hours running-in as per the fourth demands.

The technical maintenance

- 1. Per shift maintenance (before running and after running every time)
- 1) Listen and observe the abnormal phenomenon (like abnormal sounds, overheating and bolt failure)
- 2) Check the Oil leakage status of engine, transmission and walking box.
- Check the oil lever of engine and transmission, if it is within the limits of oil scale
- 4) Timely clean the dirt, weeds, oil pollution of the power tiller.
- 5) Write down the tillage record.
- 2. First class maintenance (ever 150 hours)
- 1) Conduct the whole contents of per shift maintenance.
- 2) Clean the transmission and crankcase, and change the oil
- 3. Check the clutch, shift gear and reverse gear system.
- Second class maintenance (ever 900 hours).
- 1) Check the whole contents of working for 150hours,
- Check all the gear, bearing, if wearing serious, please change the parts.
- 3) Other parts like rotary blades or bolt of the power tiller, if any, please change it.
- 4. Technical checking (1500-2000 hours)
- 1) Ask professional personnel to check the friction plate and clutch.
- Maintenance of gasoline power tiller.

Crankshaft Piston



SL-No	KK-No	KK-Name	Qty
1	E6-01	Crankshaft Assy	1
2	E6-02	Governor Gear	1
3	E6-03	Piston	1
4	E6-04	Piston Ring Assy	1
5	E6-05	Piston Pin	1
6	E6-06	Clip Piston Pin	2
7	E6-07	Connecting rod Assy	1
8	E6-08	Timing Gear	1
9	E6-09	Bolt connecting rod M7x35	2

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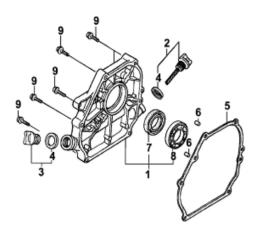
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Crankcase Cover



SL-No	KK-No	KK-Name	Qty
1	E5-01	Crankcase cover	1
2	E5-02	Oil Gauge	1
3	E5-03	Oil Plug assembly	1
4	E5-04	seal-oil gauge	2
5	E5-05	Gasket crankcase	1
6	E5-06	Set pin 8X14	2
7	E5-07	Oil Seal 25x41.25x6	1
8	E5-08	Ball Bearing 6205	1
9	E5-09	Bolt M8 x 30	6



The table of technical maintenance (sign ☐ means the things you need do)

		3	you need u	0)		
Working time / contents	Every day	8 hours under the half load	20 hours later or the first month later	150 hours or the third month	1000 hours or per year	2000 hours or every 2 years
Check the bolt, nut	(
Check and add oil	(
Clean and change oil		((first time)	((second time)	((third time and afterwards)		
Check any oil leak	(
Clean the dirt, weeds, oil pollution, keep tidy	(
Remove breakdown	(
Adjust control assembly	(
Tightening belt						(
Gear and bearing					(





Storage

Never store the machine with petrol in the fuel tank in a confined area with bad ventilation. Petrol fumes could reach open flames, sparks and cigarettes etc.

If the machine is to be stored for a longer period than 30 days, the following methods are recommended.

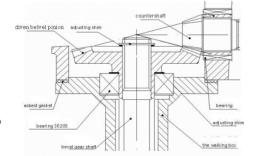
- 1. Empty the fuel tank.
- 2. Start the engine and let it run until it stops due to lack of fuel.
- 3. Change the engine oil if it has not been done for 3 months.
- 4. Remove the spark plug and empty a little engine oil (about 30 ml) in the hole. Crank the engine a couple of times. Screw back the spark plug.
- 5. Clean the whole machine thoroughly.
- 6. Lubricate all the parts as shown in LUBRICATING above.
- 7. Inspect the machine for damage, repair if necessary.
- 8. Touch up any paint damage.
- 9. Rust protection to the metal surfaces.
- 10. Store the machine indoors if possible.

DEBUGGING METHOD OF POWER TILLER

Debugging method of mesh of bevel gear

When the abnormal transmission of mesh of bevel gear of sound is confirmed, stop the machine and check as stipulated below:

- 1. Clearance adjustment of mesh of angel gear in gearbox (See Figure 10)
- ① When lateral clearance of mesh of the gear
- \triangle <0.05mm, we should put some vulcanized paper to enlarge the clearance between the gearbox and the traveling box.
- 2 When lateral clearance of mesh of the gear
- $\triangle>$ 0.3mm,we should reduce the clearance to 0.05-0.10 mm between the bearings and gear II shaft



Clearance adjustment of mesh of the gear in the running case. (See Figure 11)When lateral clearance of mesh of the gear

SL-No	KK-No	KK-Name	Qty
1	E4-01	Crankcase Body	1
2	E4-02	0-ring 14mm	1
3	E4-03	Drain bolt	2
4	E4-04	N/A	1
5	E4-05	Sway bar	1
6	E4-06	N/A	1
7	E4-07	Split Clip	1
8	E4-08	Washer Drain bolt	2
9	E4-09	N/A	1
10	E4-10	Centrifugal gear Parts	1
11	E4-11	N/A	1
12	E4-12	Plain washer 6mm	2
13	E4-13	N/A	2
14	E4-14	N/A	1
15	E4-15	N/A	2
16	E4-16	Oil sensor Assy	1
17	E4-17	Oil seal crankcase (25*41.25*6)	1
18	E4-18	Ball Bearing 6205	1
19	E4-19	Bolt M6 x 14	2
20	E4-20	Nut M10	1

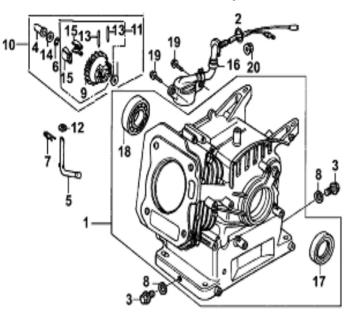


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Crankcase Assembly

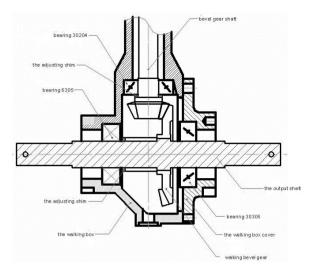




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 \triangle <0.05mm, we should increase adjustment pad by 0.2-0.3mm to enlarge the clearance, and change vulcanized paper board and adjustment pad.

3. To ensure the axial clearance of the gear II is 0.05-0.15mm. When lateral clearance of mesh of the gear $\triangle > 0.3$ mm, we should reduce adjustment pad I, meanwhile the axial clearance of gear II is 0.05-0.15mm, or increase the adjustment pad II, meanwhile ensure the axial clearance of gear I is 0.05-0.15mm.





TROUBLESHOOTING

Clutch's faults and methods

Phenomenon	Reasons	Methods
	Failure of clutch handle bar	
	Failure of clutch cables	Change
	Shifting fork not on the position	
	Drop of shift shaft, arm set	Fix or replace
Clutch failure	Break of shift fork	Replace
	□spring failure	Replace
	□spring fatigue failure	Replace
Slip(loose the clutch handle bar, the engine works well, but the transmission	Shift shaft turning ineffective, which make the shifting fork not on the right	Clean the surface of locating shaft and shuffle
slow-turning or stop	place	disc
working)	Clutch cable maladjustment	Readjust the clutch cable

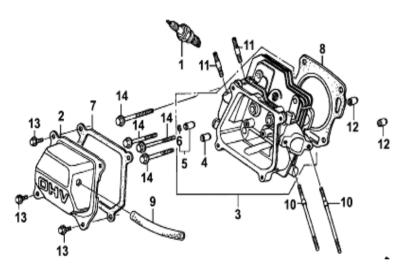


SL-No	KK-No	KK-Name	Qty
9	E3-09	Air duck/Pipe	1
10	E3-10	Stud Intake Port M6 x 113	2
11	E3-11	Stud Exhaust Port M8 x 32	2
12	E3-12	Set pin 10x14	2
13	E3-13	Bolt M6x12	4
14	E3-14	Bolt M8 x 60,	4



ENGINE PARTS DIAGRAM & LIST

Cylinder Head



SL-No	KK-No	KK-Name	Qty
1	E3-01	Spark plug	1
2	E3-02	Cylinder head cover	1
3	E3-03	Cylinder head Assy	1
4	E3-04	In. valve guide	1
5	E3-05	Ex. valve guide	1
6	E3-06	Valve guide clip	1
7	E3-07	Gasket Cylinder head cover	1
8	E3-08	Gasket Cylinder head	1



Gearbox's faults and methods

Symptom	Cause	Terms of settlement			
Failure of fast, slow and neutral shift	Bolts and nuts for the main shaft are loose	Dismount the bolts, keys cover at the back of the main shaft, screw the round nuts tight, then fix back the bolts and keys cover and screw them tight			
Failure to	Excess abrasion of puller Driving loose angle gear is Tighten the r	Replace the puller			
right	Excess abrasion of the upper hole in the connection	Replace the support			
position	piece of support arm	arm assembly			
	Positioning spring inside the main shaft does not function	Replace			
	Main shaft is moving ,the bolts for tightening the cover for the rear of the gear-box body are loose	Screw the bolts tight			
The reversing shaft is loose	Rear bolts of reversing shaft are loose	Screw the reversing shaft			
10000	The matching between reversing shaft and gear-box body is too	Replace			
Too much noise from the gears	noise from Deformation and bend of the angle gear and reversing				

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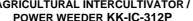
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STORAGE

If the engine is not used for a long time, do the necessary maintenance before its storage.

- Firstly, take off the fuel tank, drain out all fuel, and clean the dirt and water inside the tank. Open the fuel cock, unscrew the drain plug at the bottom of carburetor, drain out fuel in carburetor thoroughly, and then tighten the drain plug.
- Secondly, unscrew the drain plug at the bottom of the crankcase and drain out the lubricant oil in the crankcase thoroughly, then tighten the drain plug.
- Finally, clean the surface of the engine with clean cloth, remove the dirt and dust etc. Then store the engine in a well-ventilated, dirt-free place.

TRANSPORTATION

- Contact with the hot engine or exhaust system can cause serious burns or fires. Allow the engine to cool down before transporting or storing the engine.
- During transport of the engine, turn the engine switch and the fuel valve to OFF. Keep the engine cool.

TROUBLESHOOTING

1. The Engine Can't Start

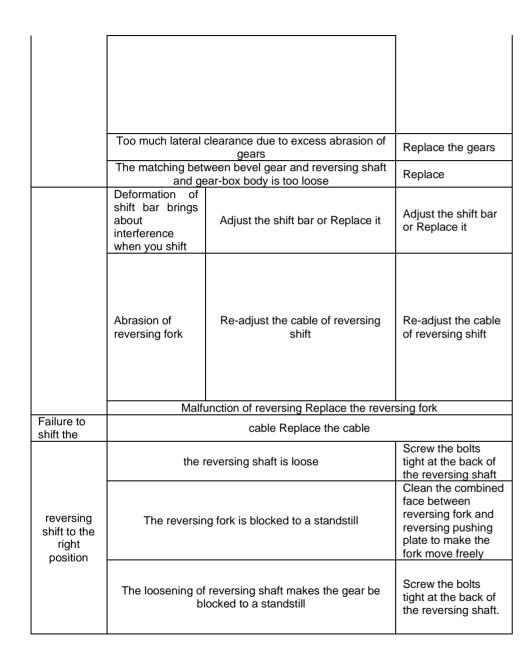
- Have the engine checked if it is hard to or cannot be started.
- Firstly, check the fuel level of the fuel tank. Turn fuel valve to (2), Fuel should flow from the drain when the fuel valve is turned ON. Tighten the drain plug. (Refer to starting of the engine)

2. Spark Plug

Check the spark plug. Remove the spark plug cap and clean any dirt around it. If the engine still cannot be started after repeating several times, please see the authorized dealer. Users are not allowed to dismantle or reassemble the unit by themselves.

3. Not Enough Power

- Check the air-cleaners. Please refer the maintenance inspection book to clear the air cleaner.
- Check the fuel. Please strain out the gasoline in fuel tank and in carburetor, and fill in new gasoline.
- For any other trouble, please contact our dealer.



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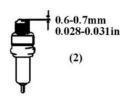
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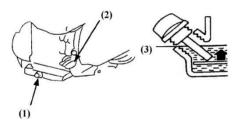
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(1) Dismantle Spark Plug

- (2) Adjust Clearance
- 4. Clean the fuel tank and filter when working time reaches 100hrs: Remove the fuel cover, drop out filter, and wash it with brush slightly. Remove fuel tank, clean the fouling and water inside fuel tank. Reinstall fuel tank, place filter from fill-in hole, filling the clean fuel to red line level.



- 1) Drain plug
- Engine switch
- 3) Lower level

Check aging of fuel pipe every 2 years. If ageing, hardening, and cracking is detected, have it replaced. Tighten the joints, and check leakage.

Before storing the unit for an extended period:

- 1. Make sure the storage area is free of excessive humidity and dust.
- Service according to the table below.

Storage Time	Recommended Service Procedure to Prevent Hard Starting				
Less than 1 month	No preparation required				
1 to 2 months	Fill with fresh gasoline and add gasoline conditioner				
2 months to 1 year	 Fill with fresh gasoline and add gasoline conditioner Drain the carburetor float bowl Drain the fuel sediment cup 				

	Malfunction of spring of the reversing shaft	Replace the spring
The reversing gears do not reset	The reversing shaft is bent and deformed	Replace the reversing shaft

Faults and methods of walking system

Phenomenon	Reasons	Methods	
Gear's noise too loud	excessive wear or wrong fix	Reassemble or replace	
Rotational hairpin of gear	Wrong assembling	Reassemble	
Excessive fever	Too little lubricating oil	Add oil as per demands	
Oil leak of output shaft sleeve cylindrical surface	Oil seal is damaged	Change oil seal	
Serious oil leak of output shaft sleeve	Sleeve fracture	Replace	
Oil leak of oil drain	O-rings damaged	Change	
on loak or on drain	Bolt loose	Tightening	
Oil leak of crankcase	Crankcase has micro loose hole	Welding or priming	

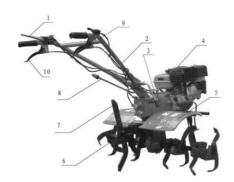
Other failures

Phenomenon	Reasons	Methods
Break-in of blades	Plough into rock or other flip	Replace it, and pay attention to avoid crash with hard objects like stone
Control cable break-in	Long-term wearing	Replace





- Emergency power cut off devices
- Handle bar
- Gear box
- 4. 170F gasoline engine
- Fender
- Trailer body
- 7. Drag strut
- 8. Gear lever
- 9. Reverse gear handle
- Clutch handle



MACHINE LIST FOR MATCHING

Attached Tools

Series	Name	Unit	Application	
1	Dry field blades	Set	Dry-land cultivation	
2	Paddy field wheel	Set	Paddy field cultivation	
3	2 piece-4 unit anti- wind knife	Set	Wetland forming with too much gross	
4	3 piece-4 unit anti- wind knife	Set	Wetland farming with too much grass	
5	Efficient paddy field wheel	Set	Paddy field cultivation	
6	Flood composite knife	Set	Dry-land, paddy field cultivation	
7	Crawl plate	Set	Used for climbing	



AGRICULTURAL INTERCULTIVATOR / POWER WEEDER KK-IC-312P

- Fuel vapors are extremely flammable and may ignite after the engine has started.
 Make sure that any fuel spillage has been wiped off before starting the engine.
- Avoid skin coming in contact with gasoline for a long time, avoid breathing in gasoline vapors. Keep children away from them.

NOTE:

Fuel can damage paint and plastics. Be careful when refueling. Damage caused by spilling fuel is not covered under warranty.

MAINTENANCE

Do periodic maintenance to keep the engine in good condition. Always follow the inspection and maintenance recommendation and schedules given in this manual.



Stop the engine before doing any maintenance work. If the engine must be operated, provide adequate ventilation. Breathing in exhaust can cause loss of consciousness and even lead to death.

Everyday Maintenance:

- Air cleaner: A dirty air cleaner will restrict air flow into the carburetor. To prevent carburetor malfunction, service the air cleaner regularly. Service more frequently when operating the generator in extremely dusty areas.
 - Check air cleaner core, get rid of fouling, and keep the core clean.
 - Check bolts, fasten the loose ones.
 - Check whether lubricant oil level is within the limits.
- 2. Clean the core after 25hrs of engine run
- Clean carbon fouling of the spark plugs after working up to 50hrs. Check the clearance, and adjust the gap to 0.6-0.7mm (see figure 4-1). Check radiator, and clean fouling among radiators.
 - Drain the oil while the engine is warm to assure rapid and complete draining.
 - Remove the drain plug and sealing washer, remove the oil filler cap, and drain the
 oil.
 - Reinstall the drain plug and sealing washer. Tighten the plug securely.
 - Refill with the recommended oil and check the oil level.

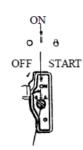
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Electrical Starting:

Turn the engine switch to START position and hold a while until the engine started

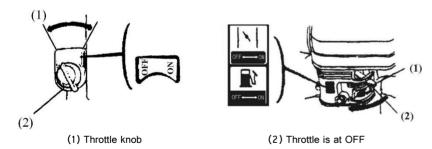


ENGINE SWITCH

NOTE: Restrict the starting time within 5 seconds to avoid engine damage. If engine cannot be started, release starter knob, retry after 10 seconds.

STOPPING THE ENGINE

Adjust throttle to proper position. Reduce engine speed, close the choke. Turn engine switch to OFF position.



! DANGER:

- Gasoline is extremely flammable and explosive under certain conditions.
- Refuel in well-ventilated places with the engine stopped. Do not smoke or allow flames or sparks near the places where the engine is refueled, or gasoline is stored.
- Do not add fuel over the shoulder of strainer. After fueling, tighten the tank cover.

Easily Damaged Parts List

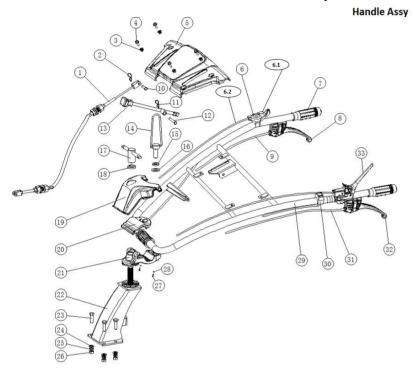
Series	Parts	Work Site	Series	Parts	Work Site
1	Spark Plug	Engine	9	The Filter Elements	Engine
2	Stop Switch	Engine	10	Kinds Of Spring	Engine Gear Box
3	Oil Plug	Engine	11	Paper Pad	Engine Gear Box
4	Piston Roll	Engine	12	Oil Seal, Oil Cover, O-ring	Engine Gear Box
5	Oil Tube	Engine	13	Bearing	Engine Gear Box
6	Connecting Rod Bearing Shell	Engine	14	Chain	Gear Box
7	Inlet Exhaust Valve Rocker Arm	Engine	15	Kinds Of Cable	Machine Frame
8	Start Pull Plate	Engine	16	Pin Roll, Cotter Pin	Cylinder

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AGRICULTURAL INTERCULTIVATOR / **POWER WEEDER KK-IC-312P**

PARTS DIAGRAM & HANDLE ASSY-(KK-IC-312P)



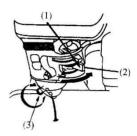
Handle Assy

SERIES NO.	PART CODE	ENGLISH NAME	UNIT	QUANTITY FOR ONE UNIT	IMAGE NO
1	73010-T90A-300C	GEAR SHIFT CHANGE CABLE	pcs	1	GB1-1
2	72205-TA5A-000C	B PIN Φ2×9×38	pcs	2	GB1-2
3	B6183-2-06KG-000C	HEXAGON FLANGE NUTS M6	pcs	4	GB1-3
4	B5789-06KG-014C	HEXAGON FLANGE BOLT M6*P1*16	pcs	4	GB1-4
5	73115-TA5A-30YG	TOOL BOX	pcs	1	GB1-5
6	72404 T00A 4000	THROTTLE GOVERNOR SWITCH	pcs	1	GB1-6.1
0	73104-T90A-4000	THROTTLE CABLE	pcs	1	GB1-6.2
7	73002-TA5A-1000	GRIP	pcs	2	GB1-7
8	73136-T90A-0000	REVERSE GRIP	pcs	1	GB1-8

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STARTING THE ENGINE

- Turn the fuel valve to ON position, unscrew the drain plug on carburetor bottom, and fasten the drain plug until oil spills out.
- Pull the choke rod to the CLOSE position. Adjust throttle to proper position. Pull the starter grip lightly until resistance is felt, then pull it rapidly



(1) Fuel Valve

(2) Start Level

(3) Drain Plug

NOTE:

- Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.
- Once the engine got started, let it run for 1~3 minutes at idle speed, check whether it is balanced, cracked, then pull the throttle to open position, adjust choke rod to OPEN.







(1) Auto-Throttle

(2) Off Position

(3) Starter Knob

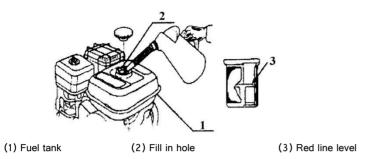
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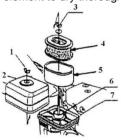
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Air cleaner

The air cleaner is a dry type including paper element and foam element.

- Remove the clip and dismantle the air cleaner housing or remove the wing nuts and air cleaner cover.
- Wash the element in 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



- 1) Butterfly nut
- 2) Air cleaner cover
- 3) Butterfly nut
- 4) Paper element
- 5) Foam element
- Seal washer
- 7) Silencer plate

! WARNING:

Do not run the engine without air cleaner.

! DANGER

Using gasoline or flammable solvent to clean the filter element can cause a fire or explosion.

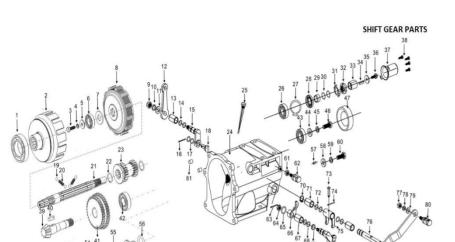
! CAUTION:

Do not run the engine without air cleaner core, otherwise dust and/or other foreign matters may get into the engine through carburetor, and results in rapid engine worn-out.

9	73139-T90C-410C	REVERSE GEAR CABLE	pcs	1	GB1-9
10	B882-0080-025C	B PIN Φ8*25	pcs	2	GB1-10
11	72205-TA5A-000C	B PIN Φ2×9×38	pcs	1	GB1-11
12	B882-0080-050C	В РІМ Ф8*50	pcs	1	GB1-12
13	73002-T90A-2000	SHIFT LEVER GRIP	pcs	1	GB1-13
13.1	B823-06JC-012C	SCREW M6*P0.8*12	pcs	1	GB1-13.1
14	73203-TA5A-200C	U CLAMP HANDLEBAR M16	pcs	1	GB1-14
15	B93-160G-000C	SPRING WASHER Φ16	pcs	1	GB1-15
16	B95-160G-000C	FLAT WASHER Φ17.5*Φ30*3.0	pcs	1	GB1-16
17	73203-TA5A-000C	T CLAMP HANDLEBAR ASSY Q235	pcs	1	GB1-17
18	B93-200G-00C	SPRING WASHER Φ20	pcs	1	GB1-18
19	73413-T90A-00C2	DECORATIVE COVER	pcs	1	GB1-19
20	73215-TA5A-02Y0	PRESSING PLATE(UP)	pcs	1	GB1-20
21	73216-TA5A-10Y0	PRESSING PLATE(DOWN)	pcs	1	GB1-21
22	73201-T90C-10Y0	HANDLE SEAT	pcs	1	GB1-22
23	B16674-1-10MG- 035C	HEXAGON FLANGE BOLT M10*P1.5*35	pcs	4	GB1-23
24	B93-100G-000C	SPRING WASHER Φ10	pcs	4	GB1-24
26	B6170-10MG-000C	HEXAGON NUTS M10*P1.5	pcs	4	GB1-26
27	B823-06JC-012C	SCREW M6*P0.8*12	pcs	2	GB1-27
28	B95-060G-000A	FLAT WASHER Φ6.6*Φ12*1.6	pcs	2	GB1-28
29	73101-T90C-70Y0	HANDLE BAR	pcs	1	GB1-29
30	73133-TA5B-1100	LIGHT SWITCH ASSY	pcs	1	GB1-30
31	73112-T90A-410C	CLUTCH CABLE	pcs	1	GB1-31
32	73111-TA5A-3000	CLUTCH HANDLE	pcs	1	GB1-32
33	73130-T90A-130C	EMERGENCY STOP HANDLE ASSY	pcs	1	GB1-33

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SHIFT GEAR PARTS

		SHIFT GEAR PARTS			
SERIES NO.	PART CODE	ENGLISH NAME	UNIT	QUANTITY FOR ONE UNIT	IMAGE NO
1	B276-6007-00	DEEP GROOVE BALL BEARING Φ35*Φ62*14	pcs	1	GB2-1
2	71300-T90A-0001	COVER, CLUTCH	pcs	1	GB2-2
3	B5789-06KG-016C	HEXAGON FLANGE BOLT M6*P1.5*16	pcs	1	GB2-3
4	B862-2-060G-000B	LOCK WASHER Ф6*Ф11*0.6	pcs	1	GB2-4
5	B5287-060G-000C	BIG WASHER Φ6*Φ22*2	pcs	1	GB2-5
6	B276-6202-00	DEEP GROOVE BALL BEARING Φ15*Φ35*11	pcs	1	GB2-6
7	71109-155H-0000	GASKET Ф15.5*Ф26*2.6	pcs	1	GB2-7
8	71300-T90A-0002	CORE COMP, CLUTCH	pcs	1	GB2-8
9	B6170-08LG-000C	HEXAGON NUTS M8*P1.25	pcs	1	GB2-9
10	B93-080G-000C	SPRING WASHER Φ8	pcs	1	GB2-10
11	B95-080G-000C	FLAT WASHER Ф9*Ф16*1.6	pcs	1	GB2-11
12	71143-T90A-020C	SHEATH,SHIFT ROD	pcs	1	GB2-12



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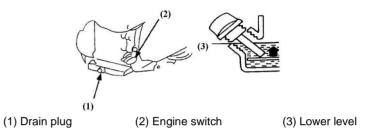
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Engine oil alert system (optional function):

The oil alert system is designed to prevent engine damage caused by insufficient oil in the crankcase. When the oil level in the crankcase falls below the safe limit, the oil alert system will automatically stop the engine even if the engine switch remains at the ON position. If the engine stops and cannot be restarted, check the engine oil level before troubleshooting in other areas.



Fuel level

- Check the fuel gauge, and refill the tank if the fuel level is low. Do not fill above the shoulder of the fuel strainer. The fuel 90# gasoline is recommended.
- Unleaded gasoline produces less engine and spark plug fouling and extends exhaust system life.
- Never use stale or contaminated gasoline or oil/gasoline mixture. Avoid dirt, rubbish, and water from getting into the fuel tank.
- 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 dealer.

! WARNING:

- Running the engine with persistent spark knock or pinging can cause engine damage
- If persistent spark knocks or pinging is caused by improper usage of the unit, the Distributor's Limited Warranty does not cover parts damaged by that.



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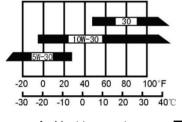
AGRICULTURAL INTERCULTIVATOR / **POWER WEEDER KK-IC-312P**

PRE-OPERATION CHECKS

Check the oil level

Lubricating oil:

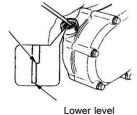
- Engine lubricant oil is a major factor affecting engine performance and service life.
- The use of the lubricating oil free of cleaning agent or the lubricating oil for the two-stroke engine will shorten the life of the gasoline engine.
- The operating temperature range recommended for the gasoline engine is -5°C~40°C.
- Use 4-stroke motor lubricant oil. 20W-40 is recommended in general, at all temperature use. Other viscosities shown in the chart may be used when the average temperature in your area is within the indicated range.

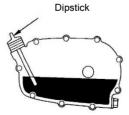




- Before checking engine lubricant oil, place the engine on level surface
- Turn out the oil filler cap and clean the dipstick with a clean cloth.
- Insert the dipstick back into the oil filler hole without turning it in.
- If oil level is below the lower mark of the dipstick, fill oil to the upper level of the dipstick.
- Reinstall the oil filler cap properly.







13	71102-T90A-0000	CLUTCH SLEEVE Ф14*Ф18*30	pcs	1	GB2-13
14	B3452-1-180C- 0100	O-RING Ф1.8*Ф10	pcs	2	GB2-14
15	71141-T90A-1000	GEARSHIFT SHAFT	pcs	1	GB2-15
16	B91-0016-020C	COTTER PIN Φ1.6*20	pcs	1	GB2-16
17	B95-080G-000C	FLAT WASHER Φ9*Φ16*1.6	pcs	2	GB2-17
18	71142-T90A-000B	SHIFTING FORK	pcs	1	GB2-18
19	B308-0635-0000	STEEL BALL Ф6.35	pcs	4	GB2-19
20	71115-T90A-000B	POSITIONING SPRING Φ6*Φ0.8*10	pcs	2	GB2-20
21	71111-T90A-0000	MAIN SHAFT 20CRMNTI	pcs	1	GB2-21
22	B895-2-0018-000B	CHECK RING Φ18*1	pcs	2	GB2-22
23	71112-T90A-0000	DOUBLE GEAR, MAIN SHAFT	pcs	1	GB2-23
24	71101-T90A-10Y0	GEARBOX	pcs	1	GB2-24
25	11010-E68F-2000	OIL DIPSTICK ASSY	pcs	1	GB2-25
		DEEP GROOVE BALL BEARING			GB2-26
26	B276-6203-00	17*35*10	pcs	1	
27	B894-1-0040-000B	ELASTIC CHECK RING Φ40*1.0	pcs	1	GB2-27
28	B9877-1-020B- 4000	OIL SEAL Φ20*Φ40*10	pcs	1	GB2-28
		MAIN SHAFT BUSHING Φ16*Φ20*12.5			GB2-29
29	71113-T90A-0000 B3452-1-180C-	O-RING Ф1.8*Ф13.2	pcs	1	GB2-30
30	0132	GASKET Φ17.2*Φ26*1	pcs	2	GB2-31
31	71109-172H-100B	NUT M16*1.5	pcs	1	GB2-31
32	B812-16MG-000B	MAIN SHAFT KEY SLEEVE	pcs	1	GB2-32 GB2-33
33	71114-T90A-0000	FLAT KEY	pcs	1	GB2-33
34	71116-T90A-000B	BIG WASHER Φ6*Φ22*2	pcs	1	GB2-34 GB2-35
35	B5287-060G-000C	BIG WASHER Ψ6"Ψ22"2	pcs	1	GB2-33
36	B5789-06KG-016C	HEXAGON FLANGE BOLT M6*P1.0*16	pcs	1	GB2-36
37	71108-T90A-000C	MAIN SHAFT SHIELD	pcs	1	GB2-37
		HEXAGON FLANGE BOLT M6*P1.0*10	Pos	-	GB2-38
38	B5789-06KG-010C	TIEXAGON I EANGE BOET MICT 1.0 TO	pcs	4	5 5 5 6
39	71121-T90A-0000	COUNTER SHAFT	pcs	1	GB2-39
40	71116-TA5A-0000	FLAT KEY(35/6*6*20)	pcs	1	GB2-40
41	71123-T90A-0000	DOUBLE GEAR, COUNTER SHAFT	pcs	1	GB2-41
42	B297-30203-00	SINGLE-ROW TAPERED ROLLER BEARING Ф15*Ф42*14.25	pcs	1	GB2-42
43	B276-6203-00	DEEP GROOVE BALL BEARING 17*35*10	pcs	1	GB2-43
44	B95-080G-200C	FLAT WASHER Φ8*Φ34*3	pcs	1	GB2-44
44					

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B16674-1-08LG- HEXAGON FLANGE BOLT M8*1.25*20 pcs 1	GB2-46
OIL SEALΦ40X10,END CAP OF COUNTER SHAFT pcs 1	GB2-47
COTTED DIN 64 0220	GB2-48
48 B91-0016-020C COTTER PIN Ψ1.6-20 pcs 1 49 B6181-12NG-000C HEXAGON SLOTTED NUT M12*P1.75 pcs 1	GB2-49
50 71134-T90A-0000 RESTRICT COVER,REVERSE GEAR pcs 1	GB2-50
SPRING #20*#02*C2 PEVERSE CEAR	GB2-51
FIAT VEV #20v#46 Fu4	GB2-52
52 71135-TA5A-100C FLAT ΚΕΤ Ψ30×Ψ10.5×4 pcs 1 53 71132-T90A-0000 DOUBLE GEAR, REVERSE GEAR pcs 1	GB2-53
DISCUSSION OF THE PROPERTY OF A P. C. P. P. C. P. C. P. P. C. P. C. P.	GB2-54
CHAFT PEVEDOS OF AD	GB2-55
R3452-1-180C-	
56 0180 O-RING Φ1.8*Φ18 pcs 1	GB2-56
57 B119-1-0050-0100 CYLINDRICAL PΙΝΦ5*10 pcs 1	GB2-57
58 B96-3-100G-000C FLAT WASHER Φ10*Φ20*4 pcs 1	GB2-58
59 B93-100G-000C SPRING WASHER Φ10 pcs 1	GB2-59
60 B5782-10MG-025C HEXAGON BOLT M10*P1.5*25 pcs 1	GB2-60
61 B6170-08LG-000C HEXAGON NUT M8*P1.25 pcs 1	GB2-61
62 71105-T90B-100C SEAT,REVERSE GEAR CABLE pcs 1	GB2-62
63 B91-0016-020C COTTER PIN Φ1.6*20 pcs 1	GB2-63
64 B6181-08LG-000C HEXAGON SLOTTED NUT M8*P1.75 pcs 1	GB2-64
65 B95-080G-000C FLAT WASHER Φ9*Φ16*1.6 pcs 1	GB2-65
66 71152-T90A-000B REVERSE GEAR FORK pcs 1	GB2-66
67 71103-T90A-0000 REVERSE GEAR BUSHING pcs 1	GB2-67
B3452-1-180C- 0100 O-RING Φ1.8*Φ10 pcs 2	GB2-68
69 71151-T90A-000C SHAFT,REVERSE GEAR FORK pcs 1	GB2-69
70 B894-1-0013-000B CHECK RING Φ14*1.0 pcs 1	GB2-70
71 71102-T90A-0000 CLUTCH BUSHING pcs 2	GB2-71
B3452-1-180C- 72 0100 0-RING Φ1.8*Φ10 pcs 4	GB2-72
73 B882-0060-025C B PIN Φ6*25 pcs 1	GB2-73
74 B91-0016-020C COTTER PIN Φ1.6*20 pcs 1	GB2-74
75 71162-T90A-000B CLUTH FORK pcs 1	GB2-75
76 71161-T90A-000C SHAFT, CLUTH FORK pcs 1	GB2-76
77 B6170-08LG-000C HEXAGON NUT M8*P1.25 pcs 1	GB2-77
78 B93-080G-000C SPRING WASHER Φ8 pcs 1	GB2-78
79 B95-080G-000C FLAT WASHER Φ9*Φ16*1.6 pcs 1	GB2-79
80 71102-090A-000C SEAT,CLUTCH pcs 1	GB2-80
81 71102-T90A-1000 POSITIONING BUSHING Φ8*Φ10*14 pcs 1	GB2-81
82 B95-140G-010C FLAT WASHER Φ14*Φ22*4 pcs 1	GB2-82



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AGRICULTURAL INTERCULTIVATOR / **POWER WEEDER KK-IC-312P**

SAFETY INSTRUCTIONS

- Please perform some pre-operation checks before operation to avoid human injury and equipment damage.
- 2. Keep the engine in good, ventilated places at least 1 meter away from buildings and other equipment's during operation and keep the flammable substances away from the engine to avoid fire.
- 3. Keep children and pets away from the operation area.
- 4. Make sure that the person who operates the engine receives proper instruction.
- Keep the flammable substances (gasoline, matches) away from the operating
- 6. As gasoline is extremely flammable and explosive under certain conditions, please refuel in a well-ventilated area with the engine stopped.
- 7. Do not fill above the shoulder of the fuel strainer.
- 8. Make sure the fuel cover is tightened.
- 9. Make sure that any spilled fuel has been wiped off before starting the engine.
- 10. Do not smoke or allow flames or sparks where the engine is refueled or where gasoline is stored.
- 11. Exhaust contains poisonous carbon monoxide, a colorless and odorless gas. Breathing exhaust can cause loss of consciousness and may lead to death. Do not operate the engine without good ventilation or in enclosed room.
- 12. If you run the engine in an area that is confined, or even partially enclosed, the air you breathe could contain a dangerous amount of exhaust gas. Provide adequate ventilation so as to keep exhaust gas from accumulation.
- 13. Place the engine on flat (level) surface, tilting angle of the engine should not be more than 20°, otherwise it will lead to fuel spilling out.
- 14. Do not cover the engine so as to avoid fire occurrence.
- 15. The muffler becomes very hot during and immediately after operation. Be careful not to touch the muffler while it is hot. Let the engine cool down before storing the engine indoor.

USER MANUAL



BEFORE GETTING STARTED

Thank you for your purchase and use of our products. In order to avoid accidents or injury, **please read this manual carefully** before using the machine. After reading, preserve it for further reference. This manual is a part of the gasoline engine and should be transferred when the machine is resold.

SAFETY LABELS



Indicates a hazard, if not avoided, can result in human injury or death.



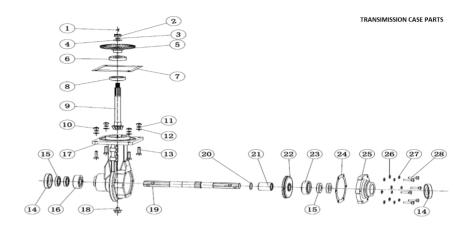
Indicates a hazard, if not avoided, could result in human injury and/or property damage.



Indicates a hazard, if not avoided, might result in slight injury and/or property damage.



Please read and understand this owner's manual before operation of the engine to avoid accidents by familiarizing yourself with your engine's controls and safe operation procedures.



TRANSIMISSION CASE PARTS

SERIES NO.	PART CODE	ENGLISH NAME	UNIT	QUANTITY FOR ONE UNIT	IMAGE NO
1	B91-0020-030C	COTTER PIN Φ2*30	pcs	1	GB3-1
2	B6181-12NG-000C	HEXAGON SLOTTED NUT M12*P1.75	pcs	1	GB3-2
3	B93-120G-000C	SPRING WASHER Φ12	pcs	1	GB3-3
4	B95-120G-010C	FLAT WASHER Ф13*Ф24*2	pcs	1	GB3-4
5	71222-T90A-0400	DRIVEN BEVEL GEAR	pcs	1	GB3-5
6	B297-30205-00	SINGLE-ROW TAPERED ROLLER BEARING 30205	pcs	1	GB3-6
7	71005-T90A-2000	PAPER PAD	pcs	1	GB3-7
8	B297-30204-00	SINGLE-ROW TAPERED ROLLER BEARING Ф20*Ф47*15.25	pcs	1	GB3-8
9	71211-T90A-0100	BEVEL GEAR SHAFT	pcs	1	GB3-9
10	B6170-10MG-000C	HEXAGON NUT M10*P1.5	pcs	4	GB3-10
11	B93-100G-000C	SPRING WASHER Φ10	pcs	4	GB3-11
12	B95-100G-000C	FLAT WASHER Φ11*Φ20*2.0	pcs	4	GB3-12
13	B5783-10MG-040C	HEXAGON BOLT M10*P1.5*40	pcs	4	GB3-13
14	71006-T90A-200C	DUST SHIELD	pcs	2	GB3-14
15	B9877-1-025C-4700	OIL SEAL Φ25*Φ47*7	pcs	4	GB3-15
17	B276-6305-00	DEEP GROOVE BALL BEARING Ф25*Ф62*17	pcs	1	GB3-17
16	71201-T90A-01RQ	WALKING CASE	pcs	1	GB3-16
18	71204-T75A-1000	OIL DRAIN BOLT M10*1.25*10	pcs	1	GB3-18
19	71008-T90A-0000	FLANGE OUTPUT SHAFT	pcs	1	GB3-19

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71109-255K-020B

71223-T90A-0000

71221-T90A-0200

71203-T90A-1000

71202-T90A-01RQ

B95-080G-000C

B93-080G-000C

B16674-1-08LG-

030C

B297-30305-00

20

21

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28

AGRICULTURAL INTERCULTIVATOR / POWER WEEDER KK-IC-312P

pcs

pcs

pcs

pcs

pcs

pcs

pcs

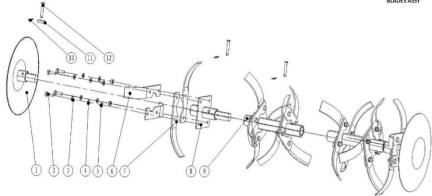
pcs

pcs

1	GB3-20
1	GB3-21
1	GB3-22
1	GB3-23
1	GB3-24
1	GB3-25
6	GB3-26
6	GB3-27

BLADES ASSY

GB3-28



GASKET Ф25.5*Ф33*0.5

COVER.OUTPUT SHAFT

WALKING BEVEL GEAR

SIDE COVER GASKET Δ0.5

FLAT WASHER Φ9*Φ16*1.6

HEXAGON BOLT M8*1.25*30

SPRING WASHER Φ8

SIDE COVER

SINGLE-ROW TAPERED ROLLER BEARING Ф25*Ф62*18.25

BLADES ASSY

SERIES NO.	PART CODE	ENGLISH NAME	UNIT	QUANTITY FOR ONE UNIT	IMAGE NO
1	79512-T80A-51B5	SIDE DISC	pcs	2	GB4-1
2	B5783-10MG-030C	HEXAGON BOLT M10*P1.5*30	pcs	24	GB4-2
3	B95-100G-000C	FLAT WASHER Φ11*Φ20*2.0	pcs	24	GB4-3
4	B93-100G-000C	SPRING WASHER Φ10	pcs	24	GB4-4
5	B6170-10MG-000C	HEXAGON NUT M10*P1.5	pcs	24	GB4-5
6	79113-T80A-01B5	BLADE(L)	pcs	12	GB4-6
7	79114-T80A-01B5	BLADE(R)	pcs	12	GB4-7
8	79112-T80A-0100	COUNTER TUBE	pcs	2	GB4-8
9	79121-T75A-0000	MAIN TUBE	pcs	2	GB4-9
10	72205-TA5A-000C	R PIN Ф2*Ф9*38	pcs	6	GB4-10
11	B882-0080-050C	В РІМ Ф8*50	pcs	6	GB4-11

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8	20025-00010-04	(PART INCLUDED IN HIGHER ASSEMBLY (E11-3})	pcs	1	E11-8
9	20025-00010-05	ELEMENT ASSY,AIR CLEANER(PART INCLUDED IN HIGHER ASSEMBLY {E11-3})	pcs	1	E11-9
10	20025-00010-06	COVER,AIR CLEANER(PART INCLUDED IN HIGHER ASSEMBLY {E11-3})	pcs	1	E11-10
11	20025-00010-07	PACKING,ELBOW(PART INCLUDED IN HIGHER ASSEMBLY {E11-3})	pcs	1	E11-11
12	20025-00010-08	(PART INCLUDED IN HIGHER ASSEMBLY (E11-3))	pcs	1	E11-12

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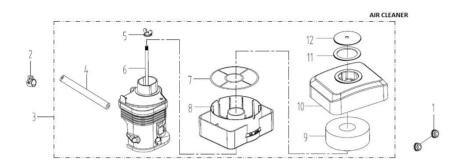
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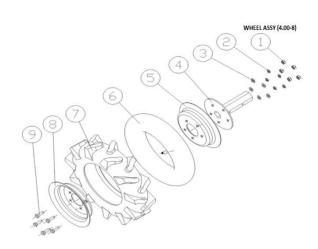


AGRICULTURAL INTERCULTIVATOR / POWER WEEDER KK-IC-312P



AIR CLEANER

SERIES NO.	PART CODE	ENGLISH NAME	UNIT	QUANTITY FOR ONE UNIT	IMAGE NO
1	30125-00002-00	NUT,FLANGE M6	pcs	2	E11-1
2	34024-00003-00	CLIP,TUBE B12	pcs	1	E11-2
3	20025-00010-00	AIR CLEANER ASSY	pcs	1	E11-3
4	20025-00010-01	TUBE,BREATHERΦ12(PART INCLUDED IN HIGHER ASSEMBLY {E11-3})	pcs	1	E11-4
5	70002-01335-00	NUT,BUTTERFLY M6(PART INCLUDED IN HIGHER ASSEMBLY {E11-3})	pcs	1	E11-5
6	20025-00010-02	ELBOW COMP,AIR CLEANER(PART INCLUDED IN HIGHER ASSEMBLY {E11-3})	pcs	1	E11-6
7	20025-00010-03	NOSE,SILENCER(PART INCLUDED IN HIGHER ASSEMBLY (E11-3))	pcs	1	E11-7



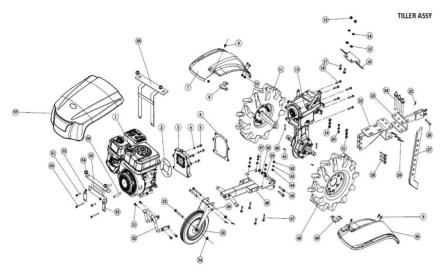
WHEEL ASSY (4.00-8)

SERIES NO.	PART CODE	ENGLISH NAME	UNIT	QUANTITY FOR ONE UNIT	IMAGE NO
1	B6170-10MG-000C	HEXAGON NUT M10*P1.5	pcs	16	GB5-1
2	B93-100G-000C	SPRING WASHER Φ10	pcs	16	GB5-2
3	B95-100G-000C	FLAT WASHER Φ11*Φ20*2.0	pcs	16	GB5-3
4	75115-T80A-00B5	WHEEL SHAFT	pcs	2	GB5-4
5	75113-TA5A-01Y0	INSIDE WHEEL HUB	pcs	2	GB5-5
6	75112-TA5A-1000	INNER TUBE	pcs	2	GB5-6
7	75111-TA5A-1000	OUTTER TUBE	pcs	2	GB5-7
8	75114-TA5A-01Y0	OUTSIDE WHEEL HUB	pcs	2	GB5-8
9	B5783-10MG-025C	HEXAGON BOLT M10*P1.5*25	pcs	16	GB5-9





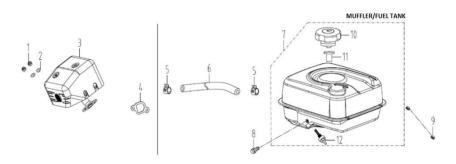
AGRICULTURAL INTERCULTIVATOR / POWER WEEDER KK-IC-312P



TILLER ASSY

	_				
SERIES NO.	PART CODE	ENGLISH NAME	UNIT	QUANTITY FOR ONE UNIT	IMAGE NO
1	10000-E70F-D340	GASOLINE ENGINE	pcs	1	GB6-1
2	04.71004-T90A-1000	FLANGE GASKET	pcs	1	GB6-2
3	04.71001-TA5A- 00Y0	FLANGE	pcs	1	GB6-3
4	B93-080G-000C	SPRING WASHER Φ8	pcs	4	GB6-4
5	B70-1-08LG-025C	SCREW M8*P1.25*25	pcs	4	GB6-5
6	71003-T90A-0000	PAPER GASKET, GEAR BOX	pcs	1	GB6-6
7	74111-T90A-20C3	RIGHT FENDER	pcs	1	GB6-7
8	74122-T90A-50B5	FRONT SUPPORT(R), FENDER	pcs	1	GB6-8
9	B5789-06KG-016C	HEXAGON FLANGE BOLT M6*P1.0*16	pcs	6	GB6-9
10	B6177-1-06KG-000C	HEXAGON FLANGE NUTS M6*P1.0	pcs	6	GB6-10
11	75110-T90A-62Y0	RIGHT WHEEL ASSY	pcs	1	GB6-11
12	71000-T90A-91Y0	GEARBOX ASSY	pcs	1	GB6-12
13	B6170-10MG-000C	HEXAGON NUT M10*P1.5	pcs	2	GB6-13
14	B93-100G-000C	SPRING WASHER Φ10	pcs	2	GB6-14
15	B95-100G-000C	FLAT WASHER Φ11*Φ20*2.0	pcs	2	GB6-15
16	74121-T90A-30B5	REAR SUPPORT, FENDER	pcs	1	GB6-16
17	B5783-10MG-025C	HEXAGON BOLT M10*P1.5*25	pcs	2	GB6-17

SERIES NO.	PART CODE	ENGLISH NAME	UNIT	QUANTITY FOR ONE UNIT	IMAGE NO
1	30101-00070-00	BOLT,FLANGE M6X12	pcs	2	E9-1
2	20022-00009-00	CONTROL,ASSY	pcs	1	E9-2
3	34015-00017-00	SPRING,CABLE RETURN	pcs	1	E9-3
4	34015-00026-00	SPRING,THROTTLE RETURN	pcs	1	E9-4
5	34026-00007-00	ROD,GOVERNOR	pcs	1	E9-5
6	34025-00003-00	CONTROL,ASSY	pcs	1	E9-6



MUFFLER/FUEL TANK

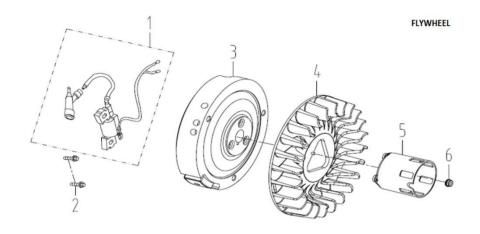
MUFFLER/FUEL TANK

SERIES NO.	PART CODE	ENGLISH NAME	UNIT	QUANTITY FOR ONE UNIT	IMAGE NO
1	30121-00040-00	NUT,HEX M8	pcs	2	E10-1
2	30139-00037-00	SPRING WASHERΦ8.5	pcs	2	E10-2
3	20202-00019-00	MUFFLER ASSY	pcs	1	E10-3
4	33048-00099-00	GASKET,MUFFLER	pcs	1	E10-4
5	34024-00002-00	CLIP,TUBEB8	pcs	2	E10-5
6	34023-00004-00	TUBE,FUELΦ8.5	pcs	1	E10-6
7	20130-00007-05	FUEL TANK ASSY	pcs	1	E10-7
8	30101-00530-00	BOLT,FLANGE M6X30	pcs	1	E10-8
9	30125-00002-00	NUT,FLANGE M6	pcs	2	E10-9
10	20131-00025-00	CAP COMP, FUEL FILLER	pcs	1	E10-10
11	34037-00019-00	FILTER,FUEL	pcs	1	E10-11
12	70010-00113-00	JOINT COMP,FUEL TANK	pcs	1	E10-12



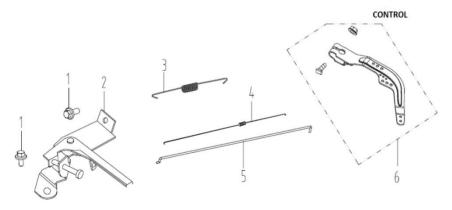
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FLYWHEEL

SERIES NO.	PART CODE	ENGLISH NAME	UNIT	QUANTITY FOR ONE UNIT	IMAGE NO
1	20028-00024-00	COIL ASSY,IGNITION	pcs	1	E8-1
2	30101-00408-00	BOLT,FLANGE M6X25	pcs	2	E8-2
3	33099-00040-00	FLYWHEEL COMP	pcs	1	E8-3
4	33155-00040-00	FAN COOLING	pcs	1	E8-4
5	34022-00007-00	PULLEY,STARTER	pcs	1	E8-5
6	30125-00011-00	NUT SPECIAL M14	pcs	1	E8-6



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18	B16674-1-08LG- 040C	HEXAGON FLANGE BOLT M8*1.25*40	pcs	6	GB6-18
19	B6170-10MG-000C	HEXAGON NUT M10*P1.5	pcs	3	GB6-19
20	B93-100G-000C	SPRING WASHER Φ10	pcs	3	GB6-20
21	B95-100G-000C	FLAT WASHER Φ11*Φ20*2.0	pcs	3	GB6-21
22	72201-T90A-11B5	COUPLING	pcs	1	GB6-22
23	72202-T80A-31B5	CONNECTION PART	pcs	1	GB6-23
24	72203-T80A-000C	PIN OF PULLEY COSRP	pcs	3	GB6-24
25	72205-TA5A-000C	R PIN Ф2*Ф9*38	pcs	1	GB6-25
26	B882-0080-040C	В РІN Ф8*40	pcs	1	GB6-26
27	72204-TA5A-00B5	DEEP FURROWING RESISTANCE PART (TYPE-L)	pcs	1	GB6-27
28	B5789-10KG-045C	HEXAGON FLANGE BOLT M10*P1.5*45	pcs	3	GB6-28
29	72205-TA5A-010C	R PIN 3*20*60	pcs	3	GB6-29
30	74112-T90A-20C3	LEFT FENDER	pcs	1	GB6-30
31	B16674-1-08LG- 250C	HEXAGON FLANGE BOLT M8*1.25*25	pcs	2	GB6-31
32	72111-T75A-10B5	BUMPER	pcs	1	GB6-32
33	B5789-08KG-080C	HEXAGON FLANGE BOLT M8*80	pcs	1	GB6-33
34	72310-T75A-50Y0	FRONT WHEEL	pcs	1	GB6-34
35	B6177-1-08KG-000C	HEXAGON FLANGE BOLT M8	pcs	1	GB6-35
36	72310-T75A-Z0B5	BRACKET, FRONT WHEEL	pcs	1	GB6-36
37	B6170-10MG-000C	HEXAGON NUT M10*P1.5	pcs	2	GB6-37
38	B93-100G-000C	SPRING WASHER Φ10	pcs	2	GB6-38
39	B95-100G-000C	FLAT WASHER Φ11*Φ20*2.0	pcs	2	GB6-39
40	B882-0080-040C	В РІМ Ф8*40	pcs	2	GB6-40
41	72205-TA5A-000C	R PIN Ф2*Ф9*38	pcs	2	GB6-41
42	B6170-08LG-000C	HEXAGON NUT M8*P1.25	pcs	4	GB6-42
43	B93-080G-000C	SPRING WASHER Φ8	pcs	4	GB6-43
44	B95-080G-000C	FLAT WASHER Φ9*Φ16*1.6	pcs	4	GB6-44
45	B5789-10KG-040C	HEXAGON FLANGE BOLT M10*P1.5*40	pcs	2	GB6-45
46	72101-T90A-52B5	ENGINE SUPPORT	pcs	1	GB6-46
47	B5789-08KG-045C	HEXAGON FLANGE BOLT M8*P1.25*45	pcs	4	GB6-47
48	75110-T90A-52Y0	LEFT WHEEL ASSY	pcs	1	GB6-48
49	74122-T90A-40B5	FRONT SUPPORT(L),FENDER	pcs	1	GB6-49
50	B5789-06KG-065C	HEXAGON FLANGE BOLT M6*P1.0*65	pcs	2	GB6-50
51	B5783-08LG-020C	HEXAGON BOLT M8*P1.25*20	pcs	2	GB6-51
52	73409-TA5A-00B5	CONNECTING PLATE	pcs	1	GB6-52

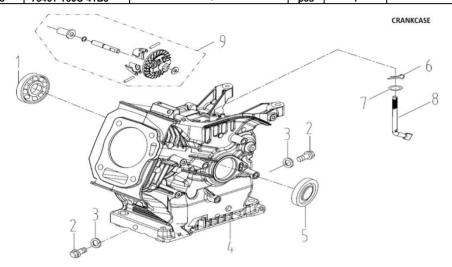
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		1			
53	B6177-1-08KG-000C	HEXAGON FLANGE NUT M8	pcs	2	GB6-53
54	00001-W001-0027	RUBBER BOLT	pcs	4	GB6-54
55	73401-T90C-30B5	FRONT SUPPORT, LIGHT COVER	pcs	1	GB6-55
56	73402-T90A-000C	SUPPORTING TUBE, LIGHT COVER	pcs	1	GB6-56
57	73411-T75A-20Y0	LIGHT COVER ASSY	pcs	1	GB6-57
58	73401-T90C-41B5	REAR SUPPORT, LIGHT COVER	pcs	1	GB6-58



Engine

CRANKCASE

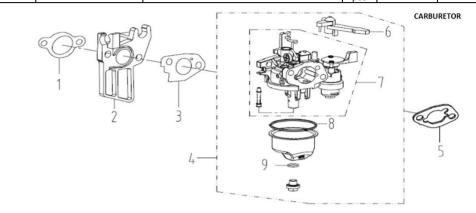
SERIES NO.	PART CODE	ENGLISH NAME	UNIT	QUANTITY FOR ONE UNIT	IMAGE NO
1	30141-00120-00	BEARING 6205	pcs	1	E1-1
2	30101-00487-00	BOLT,FLANGE M10X15	pcs	2	E1-2
3	30136-00078-00	WASHERΦ10.2	pcs	2	E1-3
4	34011-00010-00	CRANKCASE	pcs	1	E1-4
5	34007-00003-00	OIL SEAL	pcs	1	E1-5
6	34006-00016-00	PIN, LOCK	pcs	1	E1-6
7	30136-00092-00	WASHER	pcs	1	E1-7
8	34026-00003-00	SHAFT,GOVERNOR ARM	pcs	1	E1-8

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2	30101-00042-00	BOLT,FLANGE M6X20	pcs	1	E6-2
3	34024-00004-00	N/A	pcs	1	E6-3
4	30101-00070-00	BOLT,FLANGE M6X12	pcs	4	E6-4
5	20010-00049-02	RECOIL STARTER COMP	pcs	1	E6-5
6	20010-00014-01	COVER COMP,PAN	pcs	1	E6-6
7	20034-00032-03	STARTER ASSY	pcs	1	E6-7



CARBURETOR

SERIES NO.	PART CODE	ENGLISH NAME	UNIT	QUANTITY FOR ONE UNIT	IMAGE NO
1	33048-00051-00	PACKING,INSULATOR	pcs	1	E7-1
2	34012-00009-00	INSULATOR,CARBURETOR	pcs	1	E7-2
3	33048-00076-00	PACKING,CARBURETOR	pcs	1	E7-3
4	20024-00047-00	CARBURETOR	pcs	1	E7-4
5	33048-00045-00	PACKING,AIR CLEANER	pcs	1	E7-5
6	20024-00053-01	LEVER ASSY,CHOKE(PART INCLUDED IN HIGHER ASSEMBLY (E7-4))	pcs	1	E7-6
7	20024-00047-01	NOUMENON,CARBURETOR(PART INCLUDED IN HIGHER ASSEMBLY {E7- 4})	pcs	1	E7-7
8	20024-00053-03	GASKET,OIL CUP(PART INCLUDED IN HIGHER ASSEMBLY {E7-4})	pcs	1	E7-8
9	20024-00053-04	GASKET,OIL CUP(PART INCLUDED IN HIGHER ASSEMBLY (E7-4))	pcs	1	E7-9

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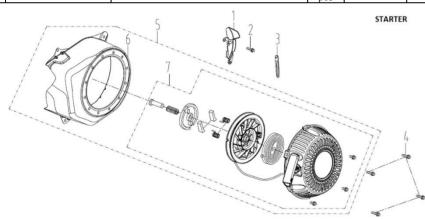


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CAMSHAFT

SERIES NO.	PART CODE	ENGLISH NAME	UNIT	QUANTITY FOR ONE UNIT	IMAGE NO
1	33141-00021-00	ROTATOR,VALVE	pcs	2	E5-1
2	34016-00006-00	RETAINER, VALVE SPRING	pcs	1	E5-2
3	34015-00003-00	SPRING,VALVE	pcs	2	E5-3
4	34016-00003-00	SPRING,VALVE	pcs	1	E5-4
5	34018-00002-00	OIL SHIELD	pcs	1	E5-5
6	34013-00027-00	VALVE,EXHAUST	pcs	1	E5-6
7	34013-00008-00	VALVE, INTAKE	pcs	1	E5-7
8	30121-00034-00	UNT,PIVOT ADJUSTING	pcs	2	E5-8
9	30134-00005-00	PIVOT ROCKER ARM	pcs	2	E5-9
10	34019-00003-00	ROCKER ARM	pcs	2	E5-10
11	30110-00032-00	BOLT POVIT	pcs	2	E5-11
12	34017-00004-00	PLATE,PUSH ROD GUIDE	pcs	1	E5-12
13	34020-00004-00	PUSH ROD	pcs	2	E5-13
14	34008-00004-00	LIFTER,VALVE	pcs	2	E5-14
15		CAM SHAFT ASSY	pcs	1	E5-15



STARTER

SERIES NO.						
1	34021-00033-00	SHROUD	pcs	1	E6-1	

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COVERNOR KIT 20013-00008-00 E1-9 CRANKCASE COVER

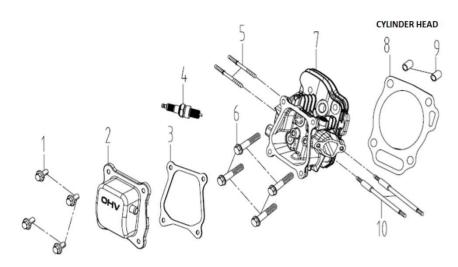
CRANKCASE COVER

SERIES NO.	PART CODE	ENGLISH NAME	UNIT	QUANTITY FOR ONE UNIT	IMAGE NO
1	34007-00003-00	OIL SEAL	pcs	1	E2-1
2	20026-00016-00	CAP ASSY	pcs	1	E2-2
3	30101-00461-00	BOLT,FLANGE M8X32	pcs	6	E2-3
4	33129-00026-00	CRANKCASE COVER	pcs	1	E2-4
5	20026-00001-00	CAP ASSY	pcs	1	E2-5
6	30141-00120-00	BEARING 6205	pcs	1	E2-6
7	33048-00061-00	GASKET,CRANKCASE COVER	pcs	1	E2-7
8	34006-00002-00	DOWEL PINΦ8X14	pcs	2	E2-8





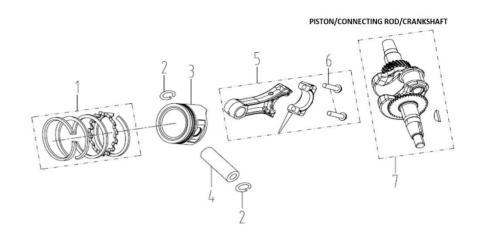
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CYLINDER HEAD

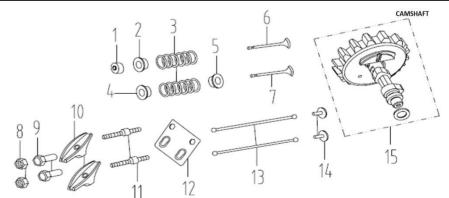
SERIES NO.	PART CODE	ENGLISH NAME	UNIT	QUANTITY FOR ONE UNIT	IMAGE NO
1	30101-00070-00	BOLT,FLANGE M6X12	pcs	4	E3-1
2	20021-00009-00	COVER COMP.HEAD	pcs	1	E3-2
3	33048-00023-00	PACKING,HEAD COVER	pcs	1	E3-3
4	20027-00006-00	SPARK PLUGF6TC	pcs	1	E3-4
5	30110-00026-00	BOLT,STUD,EXHAUST M8X35	pcs	2	E3-5
6	30101-00468-00	BOLT,FLANGE M8X60	pcs	4	E3-6
7	20023-00006-00	CYLINDER HEAD COMP	pcs	2	E3-7
8	33048-00015-00	GASKET,CYLINDER	pcs	1	E3-8
9	34006-00009-00	DOWEL PINΦ10X16	pcs	2	E3-9
10	30110-00017-00	BOLT,STUD,INTAKE M6X113	pcs	2	E3-10

PISTON/CONNECTING ROD/CRANKSHAFT



PISTON/CONNECTING ROD/CRANKSHAFT

SERIES NO.	PART CODE	ENGLISH NAME	UNIT	QUANTITY FOR ONE UNIT	IMAGE NO
1	20084-00006-00	RING SET,PISTON	pcs	1	E4-1
2	30150-00022-00	CLIP,PISTON PIN	pcs	2	E4-2
3	34004-00009-00	PISTON	pcs	1	E4-3
4	34006-00013-00	PIN,PISTON	pcs	1	E4-4
5	20008-00004-00	CONNECTING ROD ASSY	pcs	1	E4-5
6	20008-00005-01	BOLT,FLANGE M6X32	pcs	2	E4-6
7	20011-00025-00	CRANKSHAFT ASSYФ20	pcs	1	E4-7



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