

# **Warranty Certificate**

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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.

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AGRICULTURAL INTER-CULTIVATOR / POWER WEEDER KK-IC-305D

# **User Manual**



# KisanKraft Limited

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

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

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Page 1 of 52

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#### AGRICULTURAL INTER-CULTIVATOR / POWER WEEDER KK-IC-305D

### CONTENTS

Before Getting Started	3
Application	3
Safety Instructions	3
Overview-KK-IC-305D	5
Scope- KK-IC-305D	6
Assembly –IC-305D	7
Assembly drawing of safety protection guard installation	8
Installation and Adjustment for cable: Please See Figure 5 and 6 below	8
Checks and Refueling:	10
Connection of Auxiliary Devices & Tools	11
Before Operating an Engine	12
Starting the Engine	13
Operation	14
Maintenance & Service	17
Troubleshooting	19
Technical Specifications	27
Parts Diagram & List- Engine of KK-IC-305D	28
Parts Diagram - Body IC-305D	36



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AGRICULTURAL INTER-CULTIVATOR / POWER WEEDER KK-IC-305D

# **Before Getting Started**

Thank you for purchasing our Inter-cultivator.

- This manual can guide you to solve the problems when you are installing. manipulating and repairing the machine. With the continuous innovation and improvement of the products, the contents in the instruction manual may differ slightly from the actual situations, your understanding and pardon is highly appreciated. If you find some problems or have some good suggestions, please do not hesitate to contact your dealer.
- 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.

# **Application**

This machine is small, lightweight, multi-functional, and with a high efficiency for cultivation. It can climb hills, run in water, walk over the field ridges and ditches, move freely and change the directions easily, and it is especially applicable to various works in hilly area, dry land, paddy field, orchard, vegetable garden and greenhouse, etc. Cultivating, ditching & ridging, and transport are the machine's basic functions. Moreover, after being equipped with relative devices and tools, it may be used to pump water, spray water and pesticide, reap the crops, generate electricity, fertilizer, implant seeds, threshing, cut tendrils, grind something, etc. The machine has a simple structure, can be easily repaired and its fuel consumption is less. It is your ideal micro agricultural machine.

NOTE: KK-IC-350D and KK-CRT-550D have similar function. Additionally, KK-IC-350D can work as a DITCHER.

# **Safety Instructions**

- Read the instructions carefully. Be familiar with the controls and the proper use of the equipment.
- Never allow children or people unfamiliar with these instructions to use the
- Never work while people, especially children, or pets are nearby.
- Operator or owner is responsible for accidents or hazards to other people or their property.

#### Before starting the machine:

- Ensure sufficient engine oil.
- Press clutch during gear shifting.
- Load after idling the machine for 5 minutes.
- Close the choke for cold start
- Keep the choke half open for hot start.
- Before starting the machine, set shifting bar to the neutral position.
- When the machine is working, pay attention to the safety!
- Be careful not to be hurt by the rotary blades!
- While grasping the reverse handle, the shifting bar must be set to the neutral
- Fuel and lubricant must be clean.
- Clutch must be broken off when changing the shift.

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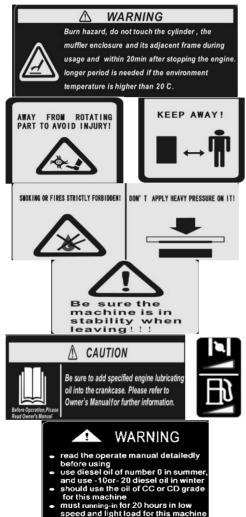
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Page 50 of 52

Page 3 of 52



- Please read the contents of nameplate on the handle bar carefully before using the machine.
- Must install the safety protecting board on the machine before using machine or after maintenance.
- Muffler is hiah а temperature spare part, do not touch the Intercultivator in work or out of work freshly.
- When the Inter-cultivator 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.
- Keep the components of oil box away from fire and smoke.
- Keep this machine stable before use and read the instruction carefully
- Please refuel on time
- Please pay attention to warning signs



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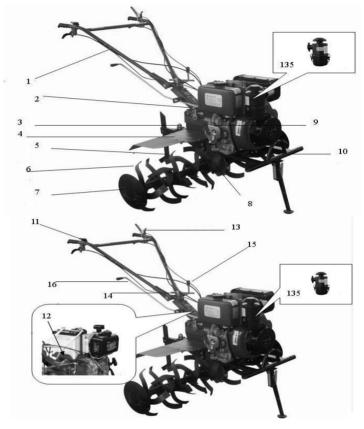
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### Overview-KK-IC-305D



- 1. Handle Bar
- Gear-box Assy.

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- 3. Adjustment Screw
- 4. Fender
- 5. Deep Furrowing Resistance Stick
- 6. Rotary Blade
- 7. Side Disc

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8. Stepped Box Assy.

- 9. Diesel Engine
- 10. Bumper
- Throttle Switch
- 12. Battery base
- 13. Safety Device (Dead-man Handle)
- 14. Locked Handle (Up & Down)

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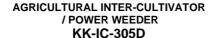
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KK-IC-305D

- 15. Locked handle (left & right)
- 16. Shifting Bar

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Page 5 of 52





# Scope- KK-IC-305D

**Cultivating:** Applicable to garden, tea plantation, orchard, sugarcane, corn land, vegetables land, greenhouse etc., for rotary assignments.

Fix the tines onto the left and right side of the transmission shaft of the running part of the Inter-cultivator, then use two M8×55 screw bolts for axial positioning. After that, the machine can start cultivating. (See following table 2 and figures 2, 3)

	Four groups		Five group	S
Form of Tines	3 blades	4 blades	3 blades	4 blades
No. of blades	3×8	4×8	3×10	4×10
Width of cultivation (mm)	1050	1050	1350	1350
Applicable Soil	Paddy field without too much water and with Earth of high moisture	Hard earth	Wet earth after rain	Dry land or with long stump from long-stem. Crop.

Figure 2. Cultivating device



Figure 3. Ditching device



**Ditching & Ridging:** Knock down the adjustment screw before the ditcher is fixed. Subject to the adjustment of the width and height for ditcher, the ditching can be conducted. (See figure 3)

**Short Distance Transport:** When fixing the forearm of the wagon box on the trailer and wheels on the transmission shaft of the running part, the machine can be used for transportation. The rated load is 250kg, under normal rotation speed of the diesel engine, speed of the fast shift is about 10km/h and that of the slow shift is about 5 km/h.

**Multi-Functional Working:** Dismount protection cover of the gear-box (No.2 in Figure 1), unscrew the bolts away from the rear part of the main shaft, and take the cover for keys out of the shaft, fasten the self-contained belt pulley or coupling onto the gear-box's main shaft's rear part with screws. Type A of common V belt is adopted for belt pulley's cross section. Rated rpm of the belt pulley is 3000 rpm. When the corresponding devices are equipped, pumping water, spraying, threshing, reaping, generating electricity, etc. are realized. (Above additional implements are in exploration process.

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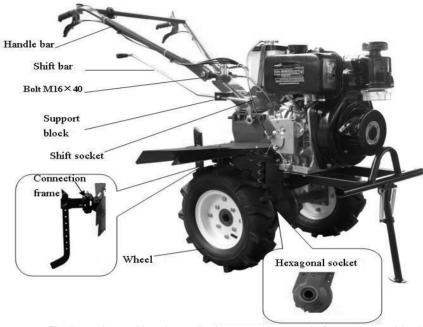




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Page 7 of 52

# Assembly -IC-305D



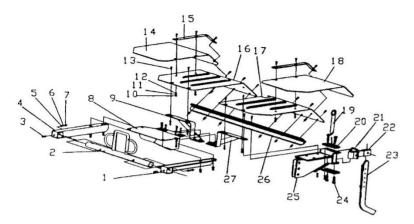
- 1. Fix the main machine; insert the hexagonal output shaft onto stepped box's output casing's hexagonal hole.
- Fix the hexagonal stop casing onto the hexagonal output shaft with M6x6 socket head screws, and make sure the hexagonal shaft does not move axially.
- Wheel fixing: fix the wheels at the two sides of the Hexagonal output shaft, and fix them with two M8x55 bolts and M8 nuts.
- Trailer fixing: Fix the link group onto the trailer, use the link shaft assembly for connection, insert the split pin ¢3x26 and insert the velocity adjustment screw into square groove of the link group, and fix it with M8x55 bolts and nuts.
- Handle bar fixing: Two gear discs of the handle bar support aim at the discs of the handle bar support base, and adjust the positions. Fix them with M16×140 bolts, flat gasket 16 and spring gasket 16.
- **Shifting bar assembly**: Get the shifting bar through the groove of shift support in the handle bar support base, and insert it into the hole of the shift casing, then fix it with split pin  $$\phi 3.2 \times 16$ . Set the shifting bar in neutral position.

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### Assembly drawing of safety protection guard installation.



- Bracket of collision bumper(left)
- Bracket of collistion bumper(front)
- Bolt m8 (bg5781-86)
- Bracket of collision bumper(right)
- Nut m8(qb41-86)
- 6. Spring washer ¢8(gb93-87)
- 7. Washer ¢8(qb95-85)
- 8. Stand (diesel)
- 9. Bracket(right)
- 10. Nut m6(gb41-86)
- 11. Spring washer ¢6(gb93-87)
- 12. Washer ¢6(qb95-85)
- 13. Bolt m6×10(gb5781-86)
- 14. Fender for paddy field (right)

- 15. Fixty of safety protection guard
- Safety protection guard(right)
- Safety protection guard(left)
- Fender for paddy field(left)
- 19. Dowel
- Connecting plate
- Bolt m8x50(ab5781-86)
- Connector jointing assembly
- Deep furrowing resistance stick
- Bolt m8x25(gb5781-86)
- 25. Bulling set (trough comp
- 16mm)
- Bracket of fender comp
- 27. Bracket (left)

**ATTENTION:** After maintenance the safety protection guard installment must be fixed on the Inter-cultivator wholly.

# Installation and Adjustment for cable: Please See Figure 5 and 6 below.

- Unscrew the locknut of the tie rod.
- Spin the tie rod clockwise until the exposed handle support is the shortest.
- Get the joint of cable into the clutch wire socket of rear part of the gear-box assembly, and ensure the joint of cable goes into the hole of the socket.
- Get the wire into the M8 hole on base of the clutch fork arm, properly press the fork arm of the clutch, and put the joint of cable into the wire socket.
- Unscrew the tie rod, grasp and loosen the clutch handle until the spring force in the clutch can reset the handle, then screw the locknut.



# 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 / Granuel 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

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Maize Combine Harvester

Onion Digger Carlotti Italy

Tea Leaf Harvester

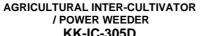
Sugarcane Combine Harvester

Sugarcane Leaf Stripper

#### **Transplanter and Post Hole Digger**

Paddy Transplanter (2 & 8 Rows) Transplanter-Vegetable & Tobacco

Post Hole Digger(4" to 14"Augers)

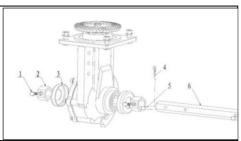




# KK-IC-305D

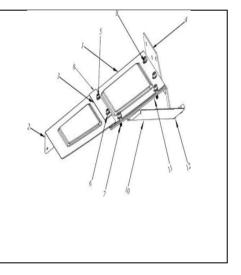
# **Output Shaft Parts**

Ref No	KK- Part No	KK-PART NAME	Qty
1	G/B 9-1	Hexagon head bolts- M8*16	2
2	G/B 9-2	hexagon retainer sleeve	2
3	G/B 9-3	dust cover	2
4	G/B 9-4	clip B	2
5	G/B 9-5	Pin 8*50	2
6	G/B 9-6	Hexagon output shaft	1



# Fender part 2

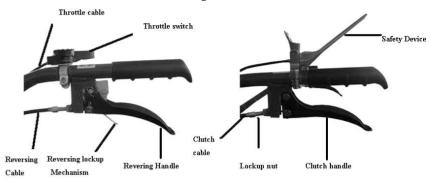
KK- Part No	KK-PART NAME	Qty
G/B 10-1	FENDER LEFT BIG PART	1
G/B 10-2	FENDER LEFT SMALL PART	1
G/B 10-3	FENDER LEFT ANGLE PLATE	1
G/B 10-4	FENDER WELDMENT LEFT	1
G/B 10-5	M6 RUBBER WASHER	3
G/B 10-6	M8 x 1.25 mm, L = 20 mm, PARTIALLY THREADED, GRADE	4
G/B 10-7	8.8 M6 GENERAL PURPOSE WASHER	3
G/B 10-8	M6 x 1 mm, L = 20 mm, PARTIALLY THREADED, GRADE 8.8	3
G/B 10-9	M6 x 1 mm, STEEL HEX NUT	3
G/B 10-10	STIFFENER LEFT FENDER	1
G/B 10-11	STIFFENER LEFT FENDER	1
G/B 10-12	M8 x 1 SQUARE NUT	2

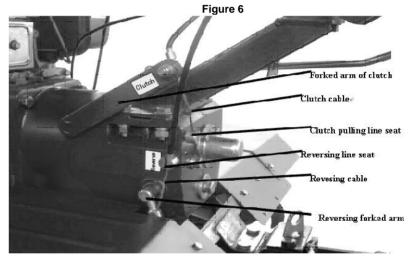




#### **AGRICULTURAL INTER-CULTIVATOR** / POWER WEEDER KK-IC-305D

Figure 5





## Adjustment of the reversing gear cable: (See Figure 5 and 6)

- Unscrew the locknut of the tie rod.
- Spin the tie rod clockwise until the bare handle support is the shortest.
- Get the cable into the reversing fork shaft besides the gear-box, and ensure the joint of cable goes into the hole of the fork shaft.
- Properly pull the reversing fork shaft counterclockwise, get the cable into the narrow gap of the reversing wire socket besides the gear-box, and ensure the pipe head goes into the hole of the wire socket.
- Unscrew the tie rod, grasp and loosen the clutch handle until the spring force in the clutch can reset the handle, then screw the locknut.

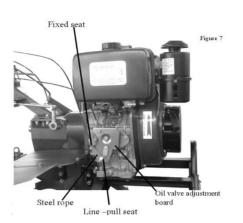


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#### Adjustment of the throttle cable: (See Figure 7)

- Shift the throttle switch clockwise to minimum positioning.
- Get wire of the throttle cable into the threading base and firm base on
- Top of the throttle adjustment board of the diesel engine.
- Tighten the wire, screw the binding bolts on the firm base.
- Adjust the throttle switch repeatedly until the throttle handle on the oil valve adjustment board can reach the maximum and minimum position.



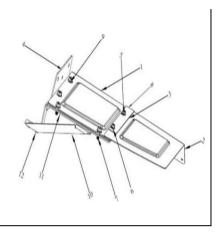
#### **Checks and Refueling:**

1. Check whether all the connection bolts are tight or not, and fix the connection bolts according to the moment of force listed in table 3. (Refer to the instruction manual for diesel engine for the screwing moment of force bolt and nut respectively)

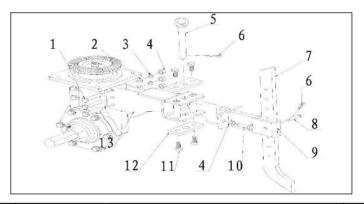
Name of parts	Moment of force (N.M)
Flange and the diesel engine	20-25
Flange and the gear-box	35-40
Binding bolts of end of driving shaft of gear-box	10-12
Binding bolts of reversing gear shaft of gear-box	26-40
Binding bolts between engine support and traveling mechanism	35-40
Binding bolts of cover of the traveling mechanism	10.6-15
Binding bolts of trailer of the traveling mechanism	50-60
Connection bolts between traveling mechanism and gear- box	35-40
Trailer unit	45-60
Set bolts of the diesel engine base	35-40
Set bolts of the handle support base	35-40

- 2. Check each handle of the manipulation system (throttle switch, clutch, shifting bar and reversing bar) to see whether they can move freely or not. If they are out of the right positions, make them at the right positions.
- Pull shift bar of the gear-box to the neutral position.

FENDER RIGHT SMALL PART	1
FENDER RIGHT ANGLE PLATE	1
FENDER WELDMENT RIGHT	1
M6 RUBBER WASHER	3
M8 x 1.25 mm, L = 20 mm, PARTIALLY THREADED, GRADE	4
8.8	
WASHER	3
M6 x 1 mm, L = 20 mm, PARTIALLY THREADED, GRADE 8.8	3
M6 x 1 mm, STEEL HEX NUT	3
STIFFENER RIGHT FENDER	1
STIFFENER RIGHT FENDER	1
M8 x 1 SQUARE NUT	2
	FENDER RIGHT ANGLE PLATE FENDER WELDMENT RIGHT M6 RUBBER WASHER M8 x 1.25 mm, L = 20 mm, PARTIALLY THREADED, GRADE 8.8 M6 GENERAL PURPOSE WASHER M6 x 1 mm, L = 20 mm, PARTIALLY THREADED, GRADE 8.8 M6 x 1 mm, STEEL HEX NUT STIFFENER RIGHT FENDER STIFFENER RIGHT FENDER



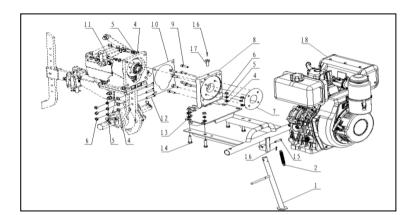
### **Trailer Body, Connecting Frame and Resistance Rod Parts**



Ref No	KK- Part No	KK-PART NAME	Qty
1	G/B 8-1	Hexagon head bolts-full thread M10*50	3
2	G/B 8-2	washer 10 Plain	3
3	G/B 8-3	spring washer 10	3
4	G/B 8-4	Nut M10	5
5	G/B 8-5	Pin with hoop	1
6	G/B 8-6	clip B	2
7	G/B 8-7	resistance rod	1
8	G/B 8-8	Pin 8*43	1
9	G/B 8-9	connecting frame	1
10	G/B 8-10	Bolt M10*35	2
11	G/B 8-11	Hexagon head bolts-M10*20	4
12	G/B 8-12	strengthen plate, trailer body	2
13	G/B 8-13	Dragging bar	1







		Bumper, engine support frame and flange parts	
Ref No	KK- Part No	KK-PART NAME	Qty
1	G/B 6-1	support bar of bumper	1
2	G/B 6-2	draw spring, support bar of bumper	1
2	G/B 6-3	bumper(WM1100A)	1
3	G/B 6-3	bumper(WM1100B)	1
4	G/B 6-4	washer 10 Plain	11
5	G/B 6-5	Spring Washer 10	11
6	G/B 6-6	Nut M10	7
7	G/B 6-7	flange gasket	1
8	G/B 6-8	flange(WM1100A/B)	1
9	G/B 6-9	Inner hexagon Screw M8*30	4
10	G/B 6-10	Gear box gasket	1
11	G/B 6-11	Hexagon head bolts-full thread M10*40	4
12	G/B 6-12	Hexagon head bolts-full thread M10*40	3
12	G/B 6-13	Engine support frame(WM1100A)	1
13	G/B 6-13	Engine support frame(WM1100B)	1
14	G/B 6-14	Hexagon head bolts-full thread M10*50	4
15	G/B 6-15	Pin 8*43	1
16	G/B 6-16	Cotter pin 2.5*30	2
17	G/B 6-17	Hexagon bolt M12*1.25*25(Breather)	1
	G/B 6-18	Bumper Block	2
	G/B 6-19	Rubber sleeve(Support Bar)	1
	G/B 6-20	Spring washer 8	8
	G/B 6-21	Positioning pin 8 × 14	2
	G/B 6-22	Inner hexagon Screw M8*25	4
	G/B 6-23	Rubber washer	2

#### Fender Parts -1

KK- Part No	KK-PART NAME	Qty
G/B 7-1	FENDER RIGHT BIG PART	1

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Page 42 of 52

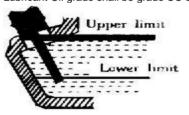


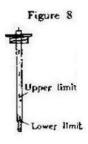
# AGRICULTURAL INTER-CULTIVATOR / POWER WEEDER KK-IC-305D

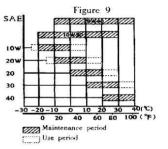
- 4. Refilling the engine oil:
  - Refill the SAE10W-40 lubricant into the crankcase of
  - The diesel engine. See Figure 9 for details Make the whole machine stable and horizontal, and refilling 20 # lubricant engine oil into the gear-box from oil hole at the top of the gear-box when check the oil level, put the oil dipstick into the oil. (Note: not to turn the dipstick around), the oil level should be between the two limits of the oil dipstick. (refer to figure 8)

**Select the appropriate lubricant** for the diesel engine according to the environmental temperature. (See figure 9).

Fill in machine oil when diesel engine is placed level, and checking the oil level only needs a poke by dipstick rather than a rotation of dipstick. Lubricant Oil grade shall be grade CC or CD.







Knock down the lower cover of the air cleaner, refill about 0.1 liter 20# engine oil into the air cleaner.

Important Note: Do not exceed the mark when refilling.

### **Connection of Auxiliary Devices & Tools**

- 1. When cultivating is needed: Knock down the wheels, fix the hexagonal union of the cultivating device onto two ends of the hexagonal shaft of the running part, and axially fix them with M8x55 bolt. Note: cultivating blades are divided into two groups, namely, the left and the right. Fixing the blades should guarantee that when the machine is running, the blade edge should work first. After fixing the blades, also fix the left and right protection board for safety purpose. Depth of the cultivating can be realized by adjusting height of the velocity adjustment screw and angles between the lever and the ground (refer to table 4).
- Cultivation of paddy field: When the submerged depth of human's feet in the paddy field is less than 25cm, bent blades for wet land can be directly used for the cultivation of paddy field.
- When ditching is needed: Unlade the Deep Furrowing Resistance Stick, fix the ditcher, adjust width & height of the ditcher, and then ditching can be conducted.

Width scope of ditching : 14cm-40cm

Depth scope of ditching: 11cm-25cm



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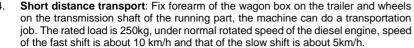
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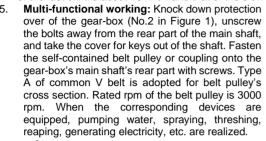
Page 11 of 52

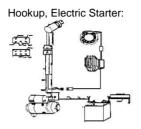


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#### AGRICULTURAL INTER-CULTIVATOR / POWER WEEDER KK-IC-305D







#### **Preparation:**

- 1. The safety protection guard must be attached to the machine before using.
- Check that the blade and fender are correctly assembled and securely fastened.
- While working, always wear substantial footwear and long trousers. Do not operate the equipment barefoot or wearing open sandals.
- Thoroughly inspect the area where the equipment is to be used and remove all objects which can be thrown out by the machine.
- WARNING-Diesel is highly flammable:
  - Store fuel in containers specifically designed for this purpose
  - Refuel outdoor only and do not smoke while refueling.
  - Add fuel before starting the engine. Never remove the cap of the fuel tank or add diesel while the engine is running or when the engine is hot.
  - If diesel 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 diesel vapors have dissipated.
    - Replace all fuel tank and container caps securely
- Replace faulty silencers

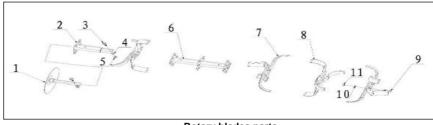
Before using, always visually inspect to see that tools are not worn or damaged. Replace worn or damaged elements and bolts in sets to preserve balance.

# **Before Operating an Engine**

#### Break-in of new engine:

- Refer to the Engine's instruction manual for the breaking-in of the diesel engine
- As for a new or overhauled Inter-cultivator, it should be working for 1 hour under no load or 5 hours under light load, then drain all the lubricant from the gear-box and crankcase of the diesel engine, refill appropriate fix of clean diesel, and clean them at a slow speed for 3-5 minutes, then drain the diesel off. Refill engine oil into them according to instructions to enter four hours breaking-in, then the machine can work.
- If your engine is not breaking in yet, improper usage will shorten the life of engine. The initial 20 hrs is the break-in-period. The operator must obey the following

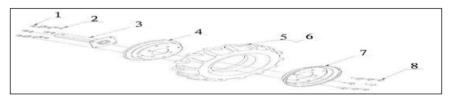
Running in for 5 minutes after first start: Running with low speed and low load before the engine gets hot. Avoid running with high speed and full load, or low speed and no load. Avoid running with overload: During break-in period, the engine can't run with full load. but can run with 3000rpm and 50% load.



Rotar	y biades	parts
	300-Qtv	,

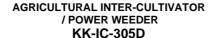
Ref No	KK- Part No	KK-PART NAME	300-Qty	KK-PART NAME	400-Qty
1	G/B 4-1	Side Disk	2	Side Disk	2
2	G/B 4-2	Counter tube	4	Counter tube	4
3	G/B 4-3	Bolt M8*55	8	Bolt M8*55	12
4	G/B 4-4	Spring washer 8	8	Spring washer 8	12
5	G/B 4-5	Nut M8 Flanged	8	Nut M8 Flanged	12
6	G/B 4-6	Main tube(WM1100A)	4	Main tube(WM1100B)	4
7	G/B 4-7	Dry land Blade(L)	16	Dry land Blade(L)	20
8	G/B 4-8	Dry land Blade(R)	16	Dry land Blade(R)	20
9	G/B 4-9	Bolt M10×35	64	Bolt M10*35	80
10	G/B 4-10	Nut M10	64	Nut M10	80
11	G/B 4-11	Spring washer 10	64	Spring washer 10	80
	G/B 4-7-1	Wet Land Blade(L)	16	Wet Land Blade(L)	20
	G/B 4-8-1	Wet Land Blade(R)	16	Wet Land Blade(R)	20

#### **Wheels Parts**



Ref No	KK- Part No	KK-PART NAME	Qty	
1	G/B 5-1	μt M10	8	
2	G/B 5-2	pring washer 10	8	
3	G/B 5-3	heel axle/black	2	
4	G/B 5-4	ooke (inner side)	2	
7	G/B 5-7	ooke (outer side with hole)	2	
6	G/B 5-6	uter rubber tyre 4.00-8	2	Tyre without inner tube
5	G/B 5-5	ner tube	N/A	
8	G/B 5-8	olt M10*25	8	

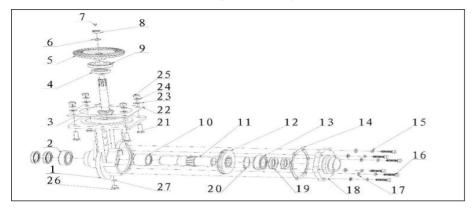
**Bumper, Engine Support Frame and Flange Parts** 







## Walking Case Assy



Ref No	KK Part No	KK Part Name	Qty	Ref No	KK Part No	KK Part Name	Qty
1	G/B 3-1	Walking case	1	15	G/B 3-15	spring washer 10*2.6	6
2	G/B 3-2	Deep groove ball bearing 6009	1	16	G/B 3-16	Hexagon bolt M10*30	6
3	G/B 3-3	Umbrella gear axes	1	17	G/B 3-17	gasket 10*2	6
4	G/B 3-4	Taper roller bearing 30204	1	18	G/B 3-18	walking case cover	1
5	G/B 3-5	Driven umbrella gear	1	19	G/B 3-19	lip seal 45*62*8	4
6	G/B 3-6	Spring washer 12*3.1	1	20	G/B 3-20	adjusting gasket 0.1 for umbrella gear	1
7	G/B 3-7	Cotter pin 2*30	1	20	G/B 3-20	adjusting gasket 0.5 for umbrella gear	1
8	G/B 3-8	Thin slotted nut M12	1	21	G/B 3-21	gasket of walking case	1
9	G/B 3-9	Taper roller bearing 30206	1	22	G/B 3-22	Hexagon head bolts M10*40	4
10	G/B 3-10	Output shaft bush	1	23	G/B 3-23	washer 10*2	4
11	G/B 3-11	hexagonal output shaft sleeve	1	24	G/B 3-24	standard spring washer 10*2.6	4
12	G/B 3-12	Walking umbrella gear	1	25	G/B 3-25	hexagon nut M10	4
13	G/B 3-13	Taper roller bearing 32009	1	26	G/B 3-26	hexagon bolt M12*1.25*12	1
14	G/B 3-14	gasket of walking case cover	1	27	G/B 3-27	O-ring 10.2*2.65	1

#### **Rotary Blades Parts**



AGRICULTURAL INTER-CULTIVATOR / POWER WEEDER KK-IC-305D

Change engine oil regularly: After working for 20hrs, change the oil when engine is still warm, otherwise it will be difficult to drain the residual oil in the engine.

#### Oil Bath Type Air Filter:

- Check the oil level before operating.
- Fill oil up to upper limit. If oil is dirty, change it. Please use diesel to clean oil bath element frequently, then dip the element in the oil and squeeze out extra.

# Starting the Engine

**Note**: The shift bar must be in the neutral position

- 1. Start the diesel engine according to the procedures stipulated in the instruction manual for the diesel engine.
- The diesel engine should run at a low speed (1500-2000 rpm) under no load for 2-3 minutes.
- Check whether the diesel engine runs normally or not. If it is abnormal, stop the engine and have a check.

#### Warning:

- Be sure to operate the engine in a good ventilated place in order to avoid exhaust
- Avoid letting hands, body & clothes entangle in output shaft, belt pulley, V-type belt pulley and other moving parts, so as to prevent from getting injury.
- Stop the engine first and then maintain the movable parts and other parts around it. Make sure there are no tools and sundries in the body of the engine before operating.

#### Run engine for 5mins to warm up

#### Note:

- The muffler becomes very hot during and immediately after operation. Don't touch
- The air filter will inhale the air around itself when the engine works.
- Don't let the hands, body and clothes approach the air filter to avoid injury.

#### After the engine becomes warm, put the speed lever on necessary position to run the engine.

#### Note:

- Be sure to use the speed lever to adjust the speed of engine.
- Do not loosen the speed limit screw and fuel control screw; otherwise the speed and output of engine will be abnormal.

#### While the engine is running

- If the engine gives out black smoke continuously, it is because the engine is overloaded. The belt pulley of the engine or that of the powered equipment must be adjusted.
- Pay attention to the following points when the engine is running:
- Whether there is abnormal sound and vibration?
- Whether the exhaust is normal?
- Whether the engine gives out white or black smoke continuously?

If any of the above phenomena is detected, stop the engine immediately and contact the nearby dealer.

# Methods of Starting the Agricultural Inter-cultivator

### Starting by Hand:

- 1. Open fuel switch.
- 2. Put engine speed lever in the start position

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#### AGRICULTURAL INTER-CULTIVATOR / POWER WEEDER KK-IC-305D

- Lock Auto-cut off switch.
- Hold recoil starter handle.
- Pull the starting handle slowly until you feel the resistance, then release it slowly.
- 6. Push the decompression lever down by hand to no compression position. It will get back automatically by itself after the engine gets started.
- 7. Starting: hold the starting handle with two hands, pull the rope lightly until you feel the resistance, then pull the rope fast with strength.
- If it is not easy to start the engine when the weather gets cold.

You could take down the refuel screw on the cylinder cover and fill in 2ml oil before

Note: Tighten the refuel screw on the cylinder cover except filling oil in order to avoid rain and dust from getting in to the engine and wearing causing damage to the engine.

### Operation

(Note: breaking-in must be performed before the using the Inter-cultivator)

- Using a slow shift:
  - The left hand should grasp the clutch handle tightly making the clutch
  - The right hand should pull the shift bar backwards, make sure the shift casing is in the slow shift position, and observe whether it reaches the right position or not. Then the right hand should grasp the right handle.

(Note: Do not grasp the reversing bar)

- Loosen the clutch handle gradually, the clutch will combine, and the Inter-cultivator can run at a slow speed.
- The right hand should increase the throttle properly so that the motor can run at a speed of 5 km/h

#### Using a fast shift:

- The left hand should grasp the clutch handle tightly making the clutch separated.
- The right hand pushes the shift bar forwards, make sure the shift casing is located in the fast shift position, and observe whether it reaches the right position or not. Then the right hand should grasp the right handle. (Note: Do not grasp the reversing bar)
- Loosen the clutch handle gradually, the clutch will combine, and the Intercultivator can run at a fast speed.
- The right hand should increase the throttle properly so that the motor can run at a speed of 10 km/h.
- Using a reversing shift:
  - The left hand should grasps the clutch handle tightly making the clutch
  - The right hand should pull or push the shift bar to the neutral shift and observe whether it reaches the right position or not. The fore finger of right hand should grasp the trigger of the reversing shift first, then the right hand should grasp the reversing handle.
  - Loosen the clutch handle gradually, the clutch will combine, and the Intercultivator can run backwards.
    - (Note: Do not loosen the reversing handle)
  - When the backward running of the machine is not needed, the left hand should hold the clutch handle gradually, and the right hand should loosen the reversing handle.

Ref No	KK- Part NO	KK-PART NAME	Qty
51	G/B 2-51	adjusting Gasket, countershaft	N/A
52	G/B 2-52	Sheath, countershaft	1
53	G/B 2-53	Thrust ball bearing 51104	1
54	G/B 2-54	O-ring 25*1.8	1
56	G/B 2-55	Worm Colomn Pin 5*10	2
	G/B 2-56	Washer 41*12.5*4 Plain	1
57	G/B 2-57	Spring washer 12	1
58	G/B 2-58	hexagon Bolt M12*1.25*25	1
59	G/B 2-59	reverse gear/clutch fork shaft sheath	3
39		20*16*31.5	3
60	G/B 2-60	Bolt M5x30 Flanged	1
61	G/B 2-61	Reverse gear fork	1
62	G/B 2-62	Axes, reverse gear fork	1
63	G/B 2-63	Nut M8	2
64	G/B 2-64	Seat, reverse gear cable	1
65	G/B 2-65	Seat, clutch cable Inner	1
65-1	G/B 2-65-1	Nut M8 Thin	1
66	G/B 2-66	Seat, clutch cable Outer	1
67	G/B 2-67	Spring washer 8	1
68	G/B 2-68	Clutch fork pin 6 × 30	1
69	G/B 2-69	Axes, clutch fork	1
70	G/B 2-70	Clutch fork	1
71	G/B 2-71	Ring 16	1
72	G/B 2-72	Clutch washer 26*15.3*2.7	1
73	G/B 2-73	deep groove ball bearing 6202	1
74	G/B 2-74	Washer 24*8*2 Plain	1
75	G/B 2-75	External teeth serrated lock washer	1
76	G/B 2-76	Bolt M8*20	<u>-</u> 1
77	G/B 2-77	deep groove ball bearing 6007	<u>.</u> 1
78	G/B 2-78	clutch cover assy	<u>.</u> 1
79	G/B 2-79	Countersunk rivet 6	N/A
80	G/B 2-80	Cover, cushion	N/A
81	G/B 2-81	Spline plate, clutch	N/A
82	G/B 2-82	Cushion	N/A
83	G/B 2-83	Cover, clutch	N/A
84	G/B 2-84	Core comp, clutch	1
85	G/B 2-85	Platen(Clutch core)	N/A
86	G/B 2-86	Friction piece	N/A
87	G/B 2-87	steel piece	N/A
88	G/B 2-88	Driven plate assy(Clutch core)	N/A
89	G/B 2-89	Spring(Clutch core)	N/A
90	G/B 2-90	Lift slab assy(Clutch core)	N/A
91	G/B 2-90 G/B 2-91	Inner hexagon screw M5*20	N/A
92	G/B 2-91	steel wire retainer ring for axe	N/A
93	G/B 2-92	N/A	N/A
94	G/B 2-93	Ball bearing SΦ3.5	N/A
95	G/B 2-94 G/B 2-95	Active Pushing cover	N/A
55	G/B 2-95	Ò ring 18x1.8	1
	G/B 2-90 G/B 2-97	Split clip/Cotter pin 1.6x16	<u></u>
	G/B 2-97 G/B 2-98	Spring washer 6	4
	G/B 2-98	Washer 8 plain	4 1
	O/D 2-99	Washer o plant	l l

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Ref No	KK- Part NO	KK-PART NAME	Qty
1	G/B 2-1	Sheath, Shift rod	1
2	G/B 2-2	Pin 6×40, Shift rod	1
3	G/B 2-3	Clip A	1
4	G/B 2-4	shift shaft sleeve 20*16*35.5	1
5	G/B 2-5	O-ring ⊄ 11.2×2.65	4
5-1	G/B 2-5-1	O-ring 10.2*2.65	4
6	G/B 2-6	shift shaft/shift fork shaft	1
7	G/B 2-7	Shift block	1
8	G/B 2-8	gear box	1
	G/B 2-9	dipstick	1
910	G/B 2-10	O-ring(dipstick)	1
11	G/B 2-11	Principal axes	1
12	G/B 2-12	steel wire retainer ring for axe	2
13	G/B 2-13	Steel ball SΦ6	4
14	G/B 2-14	Spring , Principal axes	2
15	G/B 2-15	Imitative gear	1
16	G/B 2-16	Bearing 6204	1
17	G/B 2-17	O-ring 45×1.8	1
18	G/B 2-18	Pushing panel	1
19	G/B 2-19	lip Oil seal B25×40×7	1
20	G/B 2-20	O-ring 17×2	2
21	G/B 2-21	Sheath, principal axes	1
22	G/B 2-22	thrust-washer 20	1
23	G/B 2-23	Round Nut M20×1.5	1
24	G/B 2-24	Key A6*6*20	1
<del>24</del> 25	G/B 2-25	Sheath, Key	<u>-</u>
26	G/B 2-25 G/B 2-26	Washer 8×28×3 Plain	1
27	G/B 2-20 G/B 2-27	Spring washer 8	1
28	G/B 2-27 G/B 2-28	Bolt M8*20	1
29	G/B 2-28 G/B 2-29		1
		Protect cover, principal axes	4
30	G/B 2-30	Inner hexagon Screw M6×20	1
31	G/B 2-31	Cotter pin 2.5*30	<u></u>
32	G/B 2-32	Hexagon slotted nut M12(Long) Washer 12 Plain	1
33	G/B 2-33		<u></u>
34	G/B 2-34	Restrict cover, reverse gear	
35	G/B 2-35	Reverse gear Spring	<u>1</u> 1
36	G/B 2-36	Spring seat, reverse gear	
37	G/B 2-37	Double gear, reverse gear	1
38	G/B 2-38	Pushing plate, reverse gear	1
39	G/B 2-39	Axes, reverse gear	1
40	G/B 2-40	Gasket Reverse Gear	1
41	G/B 2-41	Spring washer 10	1
42	G/B 2-42	Bolt M10*25	1
43	G/B 2-43	cotter pin 2.5*30	1_
44	G/B 2-44	Hexagon slotted nut M10	1
45	G/B 2-45	Washer M10 Plain	1_
46	G/B 2-46	Iniative umbrella gear	1
47	G/B 2-47	Countershaft	1
48	G/B 2-48	Key A6*6*20	1
49	G/B 2-49	needle bearing K182420	2
50	G/B 2-50	Double gear, countershaft	1



AGRICULTURAL INTER-CULTIVATOR
/ POWER WEEDER
KK-IC-305D

#### Shift:

When the machine is running, reduce the oil valve of the diesel engine (but subject to the diesel engine's not quenching), then the clutch is made separated. When the machine stops running, then shift.

#### 5. Change directions:

Pull the handle to left or right to make the machine turn left or right.

(Note: pulling the wrong handle may damage the gears)

- 6. The operation method of recoil/electric starter and safety device:
  - Left hand close upon the red emergency stop lever in the handle bar; draw back the clutch handle with your middle finger and ring finger at a time. The above mutual locking will make the engine ready to start. And now, the operator can recoil –start the engine with hand according to the instructions given in the manual.
  - If the engine is of electric-starting model, carry out the following two steps. (step2, 3 are not suitable for recoil start engine) connecting well the power supply and control switch as the electric start hookup (or connect it beforehand). If the Inter-cultivator is without power supply, you should prepare a lead-acid battery accord with direct current 12V, 36AH.
  - Turn the starting-key Clockwise to the start position after inspecting clearly, and then release the key after the engine has started, it will return to the primary position automatically.
  - Adjust the throttling cock to the right position after the engine has started.
  - Press the red emergency lever in the handle bar (Grasp the emergency stop handle and the handle bar with your left hand), and buckle the trigger of emergency stop lock come out from the clutch handle gently by your middle finger. Restore the clutch handle down, then the clutch switch on, and the machine start to work. You should grasp the emergency stop handle and handle bar all the while in whole working course.
  - In case of any emergency, release the emergency stop handle and handle bar, the engine will flameout and the machine will stop working immediately.

#### 7. Stopping the machine:

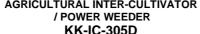
- Grasp the clutch handle, and separate the clutch.
- Pull the shift bar to the neutral position, loosen the clutch handle, and turn the oil switch clockwise to the minimum position, now the machine will stop.
- When stopping of the diesel engine is needed, it should be conducted according to relative contents in the instruction manual.

(Note: Stopping the machine is generally conducted on the flat ground)

# Safety Instructions during operation:

#### DO'S

- Do visual check every time before starting,
- Keep Agricultural Inter-Cultivator Clean.
- Do use recommended Fuel and Lubricants only.
- Do check the fuel level.
- Do check air intake filter oil level.
- Do check engine oil and gear oil levels.
- Do check for any leakage.
- Do check decompress knob before starting.
- Do check if the gear is in neutral position before starting.
- Do use recommended attachments only.



# AGRICULTURAL INTER-CULTIVATOR KK-IC-305D



#### AGRICULTURAL INTER-CULTIVATOR / POWER WEEDER KK-IC-305D

- Do maintain distance (1ft) from buildings and other equipment's when operating, to avoid any accidents. Keep the machine away from flammable materials. Keep the machine away from children and pets to avoid any injuries or
- Only operator with knowledge of machine and its operations must be
- permitted to operate Agricultural Inter-Cultivator
- Must stop the engine before refueling and refuel in a place with good ventilation.
- Must clean and spilled or over flown fuel of the Agricultural Inter-cultivator.
- Let Agricultural Inter-Cultivator cool down before storing indoors.
- Work only in daylight or in good artificial light.
- Always be sure of your footing on slopes.
- Walk, never run with the machine.
- Exercise extreme caution when changing direction on slopes.
- Use extreme caution when reversing or pulling the machine towards you.
- Start the engine carefully according to instructions and with feet well away from the tool(s).
- Never pick up or carry a machine while the engine is running.
- Stop the engine:

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- Whenever you leave the machine
- Before refueling.
- 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.

#### DON'TS...

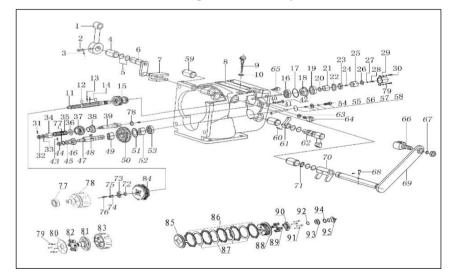
- Don't overfill the tank with fuel, but also never let fuel tank run out empty.
- Don't use adulterated fuel.
- Do not work on excessively steep slopes.
- Do not change the engine governor setting or over speed the engine.
- Do not put hands or feet near or under rotating parts.
- Don't smoke or allow flame or spark where Agricultural Inter-cultivator is refueled or where fuel is stored.
- Don't inhale exhaust for it can contain poisonous carbon monoxide.
- Don't run Agricultural Inter-cultivator in a place without adequate ventilation.
- Don't lean/tilt Diesel tank more than 20°, otherwise fuel may spill.
- Don't cover Agricultural Inter-cultivator top so as to avoid fire.
- Don't touch muffler/exhaust, as it gets hot during operating and stays hot for some time even after stopping.
- Don't delay on service schedules.
- Don't Operate Diesel Hal continuously more than 2hrs.30mins for any given operation (Give a break of 20mins)
- Don't make any alterations in Design, Operations and Functioning of Agricultural Inter-cultivator other than Company's recommendation.
- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.

### **Important Cautions during Operation**

1. Pay attention to working situations and sound of each part during the work, check whether the connection between different parts is ok or not, loose connections

Ref No	KK Part No	KK Part Name	Qty	Re f No	KK Part No	KK Part Name	Qty
1	G/B 1-01	Handrail seat	1	14	G/B 1-14	Pin 8*24	2
2	G/B 1-02	Shift lever	1	15	G/B 1-15	Lacing cord connector	2
3	G/B 1-03	Scuff sleeve, handrail seat	1	16	G/B 1-16	Hexagon head bolts- M16*150	1
4	G/B 1-04	Spring washer20*5(standard type)	1	17	G/B 1-17	Tray, gear	1
5	G/B 1-05	Locked lever	1	18	G/B 1-18	Clutch cable	1
6	G/B 1-06	Handrail	1	19	G/B 1-19	Flameout switch cable	1
7	G/B 1-07	T figure locked lever	1	20	G/B 1-20	Reverse cable	1
8	G/B 1-08	Cable clip	4	21	G/B 1-21	Throttle cable	1
9	G/B 1-09	Throttle switch Φ25(MF type)	1	22	G/B 1-22	Hexagon head bolts- M10*40	4
10	G/B 1-10	Reverse/clutch handlebar	2	23	G/B 1-23	Hex nut M10(C grade 1 type)	4
11	G/B 1-11	Handlebar rubber sleeve Φ25	2	24	G/B 1-24	Spring washer 10*2.6(standard)	4
12	G/B 1-12	Flameout switch	1	25	G/B 1-25	Washer 10*2(C grade)	8
13	G/B 1-13	Cotter pin 1.6*20(B type)	4				

### **Shifting Gearbox Assy**

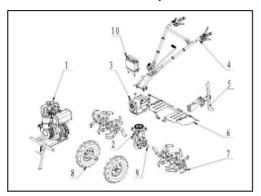






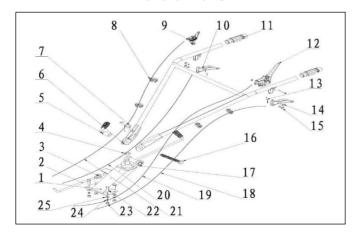
# Parts Diagram - Body IC-305D

#### Intercultivator Exploded View



Ref No	Description	Ref No	Description
1	Handrail parts	6	Bumper, engine support frame and flange parts
2	Shifting Gearbox Assy	7	Fender parts
3	Walking case Assy	8	Dragging bar、connecting frame and resistance rod pars
4	Rotary blades parts	9	Output shaft parts
5	Wheels parts		

#### **Handrail Parts**



- are not allowed. If abnormalities are found, stop the machine, and solve the problem immediately.
- A <u>cold machine should not be used</u> to do heavy load work immediately after the machine is started, especially for the new machines or the ones after overhaul.
- 3. Pay attention to checking the oil levels of the diesel engine and gearbox. Refill the engine oil when it is not enough.
- 4. Do not cool the diesel engine by pouring water.
- 5. Be cautious about the machine's tilting while farming.
- 6. Machine fixed with cultivating blades should not be used on sandy or stony place.
- 7. After using the machine for farming, pay attention to cleaning dirt, weeds, and smear on the surface of the machine and keep the machine clean.
- 8. Clean the air cleaner with sponge or the wire mesh frequently and change the engine oil. (Keep an eye on the marking on the empty air cleaner oil level)

### **Maintenance & Service**

During the working period of the Inter-cultivator, due to the changing running speeds, abrasion and varying loads, phenomena of bolts loosening and parts wearing are inevitable which in turn may lead to the malfunction of the system, abnormalities of clearances, declination of engine power, more oil consumption, malfunction of each part, more failures of the machine, and the problems affect the normal use of the Inter-cultivator. To reduce chances of troubles, it is better to do a strict and regular maintenance job which emphasizes precautionary measures to keep a good performance and extend the machine's working life.

- Keep all nuts, bolts and screw tight to ensure the equipment is in safe working condition
- Never store the equipment with diesel in the tank inside a building where fumes can reach an open flame or spark.
- 3. Allow the engine to cool before storing in any enclosed place.
- 4. To reduce the fire hazard, keep the engine, muffler, battery compartment and diesel storage area free of inflammable material and excessive grease.
- Replace worn or damaged parts for safety.
- 6. If the fuel tank has to be drained, this shall be done outdoors
- After adjustment or maintenance, the safety protection guard must be attached to the machine.

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Page 36 of 52

Page 18 of 52





#### Technical Service of Intercultivator

- 1. MAINTENANCE AFTER EACH WORK SHIFT (conducted before and after each shift)
  - Listen and observe if there are any abnormalities of each part (such as abnormal sound, overheating and bolt loosening)
  - Check if there is oil leakage in diesel engine, gearbox and Traveling box.
  - Check if the oil levels of the diesel engine and gearbox are between the two extremes of the oil dipstick.
  - Timely clean the mud, weeds and smear on the machine and its parts.
  - Keep a good record.
- 2. FIRST LEVEL SERVICE (EVERY 150 WORKING HOURS)
  - Do all the things listed for each work shift maintenance.
  - Clean the gearbox and Traveling box, and change the engine oil.
  - Check and adjust the clutch, shift system and reversing gear system.
- 3. SECOND LEVEL SERVICE (EVERY 600 WORKING HOURS)
  - Do all the things listed every 150 hours for service.
  - Check all the gears and bearings, replace with new ones if serious abrasion is
  - Other parts of the Inter-cultivator, like cultivating blade or connection bolts, if damaged, replace with new ones.
- 4. TECHNICAL OVERHAUL (EVERY 1800-2000 WORKING HOURS)
  - Take the machine apart in the local special service center, clean and check the machine, then replace or repair the seriously- worn out parts.
  - Specialized service men are invited to check the friction piece and clutch.
- 5. MAINTENANCE OF DIESEL ENGINE:
  - Refer to the instruction manual of the diesel engine.

#### **Technical Service List of Intercultivator**

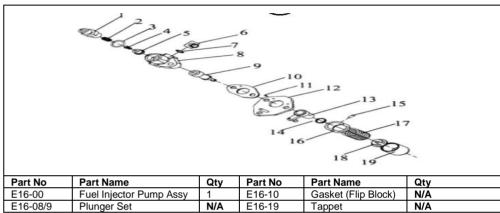
Interval →→	Daily	8-Hrs	20-Hrs Or 1-Month	150-Hrs Or 3- Months	1000 Hrs Or 1-Year	2000 Hrs Or 2-Years
Check and screw bolts and nuts	✓					
Check and refill engine oil	<b>✓</b>					
Clean and change the diesel		✓	✓	✓		
Check oil leakage	✓					
Clean dirt, weeds and smear	✓					
Troubleshooting	✓					
Adjust the control parts	✓					
Friction piece of the clutch						<b>√</b>
Gears and bearings					✓	

Note: The mark √ means service required.

#### **FUEL NOZZLE ASSEMBLY**

Part No	Part Name	Qty	1 2 3 4 5 6 7
E15-00	Fuel Injector	1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
E15-07	Nozzle(Fuel Injector)	N/A	69 69 69

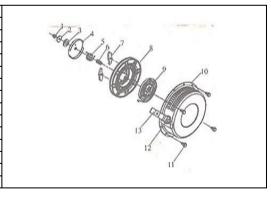
#### **FUEL INJECTION PUMP ASSEMBLY**



Fuel Injector Pump Assy	1	E16-10	Gasket (Flip Block)	N/A
Plunger Set	N/A	E16-19	Tappet	N/A

#### RECOIL STARTER ASSEMBLY

Part No	Part Name	Qty
E17-00	Recoil Starter Assy	N/A
E17-01	Nut M8	N/A
E17-02	Washer(Starter)	N/A
E17-03	Friction Plate	N/A
E17-04	Starter Ratchet Reel	N/A
E17-05	Return Spring	N/A
E17-06	Compression Spring	N/A
E17-07	Ratchet	N/A
E17-08	Starter Reel	N/A
E17-09	Spiral Spring	N/A
E17-10	Outer Case Assy	N/A
E17-11	Bolt M6*8 flanged	4
E17-12	Starter Rope	N/A
E17-13	Starter Handle	N/A



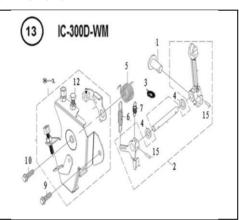
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Ref No.	Part No	Part Name	QTY	12. Air Cleaner(11.001.027.0001)
12-00	E12-00	Air Cleaner Assy (Cyclone Type)	1	5 6 0 0 0 0 0 10 10 10 10 10 10 10 10 10 10

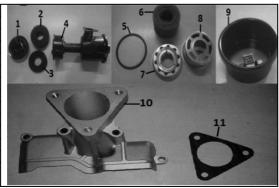
#### **GOVERNOR&CONTROL SYSTEM**

Ref, No.	Part No	Part Name	QTY
1	E13-01	Tappet 25.5	1
2	E13-02	Lever Fork Assy	1
3	E13-03	Oil Seal 8*14*4	1
4	E13-04	Lever Washer	2
5	E13-05	Return	1
		Spring(Lever Fork)	
6	E13-06	Governor Spring	1
7	E13-07	Fine Spring	1
8-1	E13-08-1	Control Lever Assy.	1
8-2	E13-08-2	Spring Throttle	1
9	E13-09	Bolt M6*12 Flanged	1
10	E13-10	Bolt M6*30 Flanged	1
11	E13-12	Bolt M6*45	1
12	E13-15	Pin Roll	2



#### AIR CLEANER ASSEMBLY

Part No	Part Name	Qty
E14-00	Air Filter Assy(Oil Bath)	N/A
E14-01	Air Filter Top Cover	N/A
E14-02	Air Filter sponge(Big)	N/A
E14-03	Air Filter sponge(Small)	N/A
E14-04	Air Filter Body	N/A
E14-05	O-Ring(Air Filter)	N/A
E14-06	Metal Filter(Air Filter)	N/A
E14-07	Metal Filter Body (Small)	N/A
E14-08	Metal Filter Body (Big)	N/A
E14-09	Air Filter Sump	N/A
E14-10	Intake Pipe	1
E14-11 Air Cleaner Gasket		1
E14-12	Bolt M6*16 flanged	3





AGRICULTURAL INTER-CULTIVATOR
/ POWER WEEDER
KK-IC-305D

#### Long-Term Storage of Inter-cultivator

When the Inter-cultivator needs long-term storage, the following measures should be adopted to avoid rust.

- The instruction manual of diesel engine requires sealing the diesel engine up for keeping purpose.
- Clean dust and dirt away from the surface of the machine.
- 3. Drain the lubricant from the gearbox and add new lubricant into it.
- 4. Paint anti-rust oil on the non-painted area of the non-aluminum surface
- 5. The machine should be kept in a well-ventilated, dry and soft place.
- 6. Keep well the self-contained tools, conformity certificate of product and instruction manual.

# **Troubleshooting**

### **Troubleshooting of Reversing Gears and Cables:**

When the Inter-cultivator's running backwards is not normal, it is necessary to adjust the reversing gears and Cables, see the instructions below.

- 1. Grasp and loosen the reversing handle for 2-3 minutes to confirm the putting into gear. If it is abnormal, adjust it until it is qualified.
- When the Inter-cultivator is running, loosen the reversing handle, the reversing gears should return to its original position and ensure that there is no abnormal sound made by gears colliding in the gear-box, otherwise, it may cause damage to the gear.

#### **Troubleshooting of Clutch Cables:**

After some time, use, the clutch does not perform well any more due to the weariness of friction piece and fork of clutch. As for how to adjust cable of the clutch, refer to instructions below.

- Grasp and loosen the clutch handle 2-3 times to confirm the clutch status. If abnormal, readjust it
- If repeated adjustment cannot solve the problem, excess abrasion of fork or friction piece of the clutch can be confirmed. The machine should be sent to special service center to replace it with a new fork of friction piece of the clutch.
- Dismounting the clutch by unspecialized person, which may cause damage to the clutch and the machine is forbidden.

# **Troubleshooting of Accelerator Cables:**

When spinning the throttle switch, check if the acceleration or deceleration performance of the diesel engine is good or not, adjust the throttle switch if necessary. Refer to instructions for measures.

- Repeatedly spin the throttle switch 2-3 times and confirm whether the acceleration or deceleration performance of the diesel engine is ok.
- Joint of the cable must be firmly connected to the throttle cable.

### Use & troubleshooting of Handle Bar Frame:

According to your height, farming and other special requirements, the handlebar connection can be adjusted up and down, left and right appropriately as following: (see figure below)

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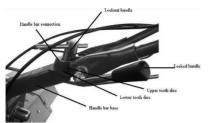
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Page 34 of 52





- 1. The up and down debugging for the handle bar connection
  - a) Unscrew the Locked handle of the handle bar connection, and make the terminal tooth between the handle bar connection and the handle bar base separated.
  - b) Select the best position for the handle bar connection according to your height and comfort.
  - c) Then spin the handle to make the terminal teeth between the handle bar connection and handle bar base engage well with each other.
- 2. The left and right debugging for the handle bar connection.
  - a) Unscrew the locknut handle of the handle bar base and the upper and lower terminal teeth.
  - b) Spin the handle bar left or right to the desired position.
  - c) Then screw the locknut handle to make the higher and lower terminal teeth of the handle bar base engage well with each other.

### **Troubleshooting of Clutch:**

NOTE: Please do not dismantle the clutch assembly yourself. You should contact our dealers for such repairs

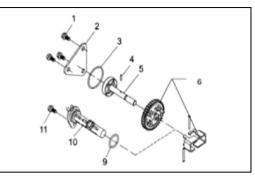
repairs	T	<u> </u>	
Symptom	Cause	Remedy	
	Failure of the clutch handle	Repair or replace the clutch handle	
	Damage of the clutch Cables	Replace the clutch cables	
	Fork not in the right position	Re-adjust the cable or replace the fork	
	Welding points between fork shaft and arm base break off	Repair or replace the clutch cables	
Clutch fails	Fork pin is bent or broken	Replace the fork pin	
Ciutorrians	Malfunction of the friction piece	Replace the friction piece	
	Malfunction of spring	Replace the spring	
	The friction piece fails to touch the	Add some adjustment pads to the	
	bearing face of the clutch cover	back of the bearing	
	Bearing is burnt in the clutch	Replace the bearing Pay attention to refilling engine oil into the gear-box	
Skidding/Slipping (after loosening the	The spring does not function due to tiredness	Replace the spring	
clutch, the diesel engine runs normally, but the	Fork shaft's failure to turn around freely makes the fork fail to reset completely	Clean the combined face between positioning shaft and pushing plate to make the fork move freely.	
main shaft of the transmission shaft stops running or runs slowly)	Cable adjustment is not right	Re-adjust the clutch Cables.	

# **Troubleshooting Bevel Gears Mesh:**



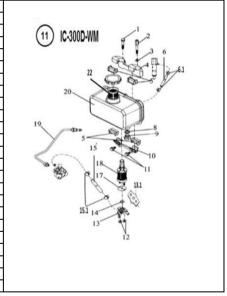
# AGRICULTURAL INTER-CULTIVATOR / POWER WEEDER KK-IC-305D

Part No	Part Name	QTY
E10-01	Bolt M6x12	3
E10-02	Oil Pump Cover	1
E10-03	O-Ring 34.8x1.8	1
E10-04	Pin 3x16	1
E10-05	Oil Pump Assy	1
E10-06	Oil Pump Gear	1
E10-09	O-Ring 242.4	1
E10-10	Oil Filter Assy	1
E10-11	Bolt M6x14	1



#### **FUEL TANK & FUEL PIPE ASSEMBLY**

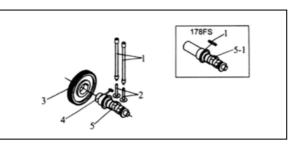
Part No	Part Name	QTY	
E11-01	Bolt M8*45 flanged	1	
E11-02	Upper Stay Bolt	1	
E11-03	Washer 8 plain	1	
E11-04	Upper Stay	1	
E11-05	Fuel Tank Damper	4	
E11-06	Fuel Return Pipe Assy	1	
E11-06.1	Clip Fuel Return Pipe	2	
E11-08	Fuel Tank Plug Seat	1	
E11-09	Fuel Tank Plug	1	
E11-10	Lower Stay Assy	1	
E11-11	Bolt M6*14 flanged	2	
E11-12	12 Nut M6 flanged		
E11-13	E11-13 Fuel Tank Cock Assy		
E11-13.1	Gasket Fuel Tank Cock	1	
E11-14	O-Ring 13.2x1.8	1	
E11-15	Fuel Pipe Assy	1	
E11-15.1	Clip Fuel Pipe	2	
E11-17	Fuel Filter Gasket	1	
E11-18	-18 Fuel Filter Assy		
E11-19	Fuel Injection Pipe Assy		
E11-20	Fuel Tank Assy		
E11-21	Fuel Tank Cap Assy 1		
E11-22	Fuel Filter Upper	1	





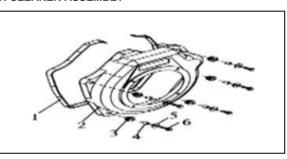
#### **CAMSHAFT ASSEMBLY**

Part No	Part Name	QTY
E6-01	Valve Rod Assy	2
E6-02	Valve Tappet	2
E6-03	Camshaft Timing Gear	1
E6-04	Key 5x14	1
E6-05	Camshaft	1



#### AIR CLEANER ASSEMBLY

Part No	Part Name	QTY
E7-01	Shock Absorber Seat	1
E7-02	Fan Case Welded Assy	1
E7-03	Shock Absorber	5
E7-04	Collar 10x10	5
E7-05	Washer 6	5
E7-06	Bolt M6x25	5



#### SILENCER /MUFFLER ASSEMBLY

				OILL!	NCER /MOFFLER ASSEMBLI
Part No	)	Part N	lame	QTY	5
E8-01		Silenc	er Assy	1	117
E8-02		Nut 8		2	000
E8-03		Spring	Washer 6	2	
E8-04	,	Washe	er 8	2	
E8-05		Bolt M	6x14	2	
Ref No.	Part No		Part Name	QTY	9 IC-300D-
1-1	E9-	-1-1	Starter Seat Cover	1	
2-2	E9-	-2-2	Bolt M10x20 flanged	2	2 3 4

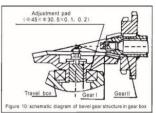
**LUBE OIL SYSTEM /Oil Pump Assy** 

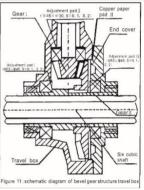


# AGRICULTURAL INTER-CULTIVATOR / POWER WEEDER KK-IC-305D

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

- 1. Clearance adjustment of mesh of angel gear in gear-box ( See Figure 10)
- a) When lateral clearance of mesh of the gear △
   <0.05mm, we should put some vulcanized paper to enlarge the clearance between the gear-box and the traveling box.</li>
- b) When lateral clearance of mesh of the gear △ >0.3mm,we should reduce the clearance to 0.05-0.10 mm between the bearings and gear II shaft
- 2. Clearance adjustment of mesh of the gear in the running case.(See Figure 11)
  - a) When lateral clearance of mesh of the gear △ <0.05mm, we should increase adjustment pad I by 0.2-0.3mm to enlarge the clearance, and change vulcanized paper board II and adjustment pad. To ensure the axial clearance of the gear is 0.05-0.15mm.</p>
  - b) When lateral clearance of mesh of the gear △ >0.3mm, 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 of Gear-box:

Symptom	Cause	Remedy
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.
	Excess abrasion of puller	Replace the puller
	Driving angle gear is loose	Tighten the round nuts
	Excess abrasion of the upper hole in the connection piece of support arm	Replace the support arm assembly
Failure to shift to the right position	Positioning spring inside the main shaft does not function	Replace the shaft
	Main shaft is moving, the bolts for tightening the cover for the rear of the gear-box body are loose.	Screw the bolts tight
	Deformation of shift bar brings about interference when you shift	Adjust the shift bar or replace it
	Abrasion of reversing fork	Re-adjust the cable of reversing shift.

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Page 32 of 52





# AGRICULTURAL INTER-CULTIVATOR / POWER WEEDER KK-IC-305D

#### CYLINDER HEAD BONNET ASSEMBLY

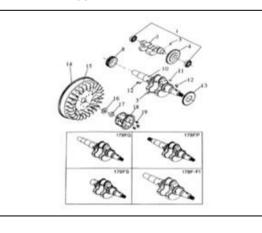
Part No	Part Name	Qty	
E3-03	Bonnet Assy	1	
E3-06	Bonnet Gasket	1	
E3-10	Bolt M6*55 flanged	2	

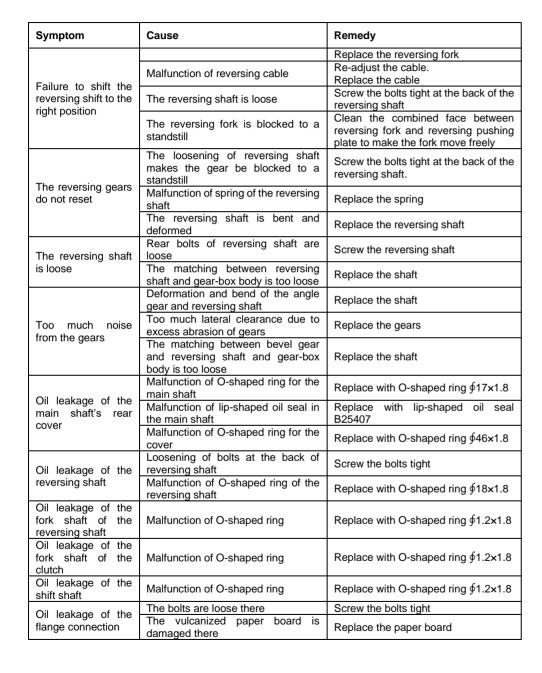
#### PISTON & CONNECTING ROD ASSEMBLY

Part No	Part Name	QTY	
E4-01	Piston Ring Set	1	
E4-02	Piston	1	
E4-03	Piston Pin	1	2
E4-04	Circlip Piston Pin	2	7
E4-05	Connecting Rod Assy	1	The same of the sa
E4-06	Crank Pin Bearing	1	6

#### CRANK SHAFT & FLYWHEEL ASSEMBLY

Part No	Part Name	QTY
E5-01	Ball Bearing 6202/P5	2
E5-02	Balancer Shaft	1
E5-03	Key 5×7	2
E5-04	Timing Gear Of Balance Shaft	1
E5-08	Crankshaft Timing Gear	1
E5-10	Crank Shaft	1
E5-11	Steel Ball	1
E5-12	Key 5×12	2
E5-13	Drive Gear Of Balance Shaft	1
E5-15	Fly Wheel	1
E5-16	Fly Wheel Nut Washer	1
E5-17	Fly Wheel Nut	1
E5-18	Starter Pulley	1
E5-19	Bolt M6x12	3



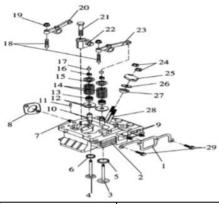








#### CYLINDER ASSEMBLY



Ref. No.	KK-PART NO	KK-PART NAME	Qty
1	E2-01	Air Intake Gasket	1
2/5/6/10	E2-02/5/6/10	Cylinder Head	1
3	E2-03	Intake Valve	1
4	E2-04	Exhaust Valve	1
7	E2-07	Stud AM 8*32	2
8	E2-08	Silencer Gasket	1
9	E2-09	Bolt 6*72 flanged	2
11	E2-11	Pin 4*8	1
12	E2-12	Valve Spring Washer	2
13	E2-13	Valve Conduit Oil Seal	2
14	E2-14	Valve Spring	2
15	E2-15	Valve Spring Retainer	2
16	E2-16	Cotter	4
17	E2-17	Valve Adjusting Plate	2
18	E2-18/19/20/22/23	Rock Arm Assy	1
21	E2-21	Bolt M8*45 flanged	1
24	E2-24	Nut M6 flanged	2
25	E2-25	Nozzle Retainer	1
26	E2-26	Spacer Washer(Injector) (Set)	1
27	E2-27	Insulation Sleeve	1
28	E2-28	Stud AM6*60	2
29	E2-29	Bolt M6*25 flanged	2

Symptom	Cause	Remedy
Leakage of the gear-box body	The gear-box body has tiny hidden holes	Re-welding or brush base paint to stop the leaking
Oil leakage of the fork shaft of the clutch	Malfunction of O-shaped ring	Replace with O-shaped ring ∮1.2×1.8
Oil leakage of the shift shaft	Malfunction of O-shaped ring	Replace with O-shaped ring ∮1.2x1.8
Oil leakage of the	The bolts are loose there	Screw the bolts tight
flange connection	The vulcanized paper is damaged	Replace the paper board
Leakage of the gear-box body	The gear-box body has tiny hidden holes	Re-welding or brush base paint to stop the leaking

## **Troubleshooting of Traveling Mechanism**

Symptom	Cause	Remedy	
Too much noise from the gear	Excess abrasion or error repairing of the gear	Re-fix and re-adjust or replace the gear	
Gears are blocked to standstill when running	Error in fixing	Re-fix the gears.	
	Not enough lubricant in the box	Re-fill oil according to the request	
Overheating	The lateral clearance of gear is too small	Re-fix	
	The axial clearance is too small	Re-adjust the clearance value	
Oil leakage of the gear-box	The connection bolt is loose	Screw the bolt tight	
connection	The seal gasket is damaged	Replace with lip-shaped oil seal B45628	
The oil leakage of the output shaft casing	The lip-shaped oil seal there is damaged	Replace with lip-shaped oil seal B45628	
Serious oil leakage of the hexagonal hole in the output shaft casing	The shaft casing there is broken	Replace the shaft	
Oil leakage of oil hole	The O-shaped ring there is damaged	Replace with O-shaped ring \$\phi 10 \times 1.8\$	
	The bolts are loose	Screw the bolts tight	
Leakage of the Traveling box body	The Traveling box body has tiny hidden holes	Re-welding or brush base paint to stop the leaking	

# **Engine Troubleshooting:**



# KisanKraft<sup>®</sup>

#### AGRICULTURAL INTER-CULTIVATOR / POWER WEEDER KK-IC-305D

### Difficulty in starting or failure to start:

	Cause	Remedy
Α.	Extremely cold weather	Pour in 3-5g engine oil in air intake pipe or spray hot water at the top of the cylinder head.
B.	Failure of fuel system	
	Fuel is frozen	Replace the fuel, apply proper fuel type.
	2. Water in fuel	Clean oil tank and replace fuel
	3. Failure of injector	Adjust pressure or clean up carbon deposit, grind or replace parts
	Injector doesn't work or bad fuel supply of oil pump	Fasten type T bolt of oil supply pipe, evacuate air in the pipe.
C.	Insufficient compression force	
	Nuts of cylinder head is loosened or cylinder gasket is damaged	Fasten nuts or replace gasket
	Piston ring, piston, or cylinder liner is worn out.	Repair or replace the part whichever is necessary.
	Piston ring is banded or broken	Clean or replace the piston ring
	4. Bad sealing of throttle and throttle seat causes gas leakage.	Grind throttle.
	<ol><li>Improper clearance of air intake and exhaust valve.</li></ol>	Adjust as per relevant requirements
	6. Throttle stem is seized in duct	Remove throttle and clean it
	Too much drop of compression ratio even after adjusting throttle seat several times.	Replace throttle seat.
D.	Improper oil supply advance angle	Adjust as per relevant requirements
E.	Viscosity of engine oil is too large	Fill engine oil of right type and right grade.

#### **Insufficient Engine Power:**

	Cause	Remedy
Α.	Failure of oil passage system	
	Oil passage is blocked,     unsmooth oil supply	Check the oil passage
	Bad oil supply of injection pump	Repair or replace the necessary parts
	Failure of injector	Refer to "difficulty in starting"
B.	Insufficient compression force	Refer to "difficulty in starting
C.	Air filler is blocked	Clean or replace filter element
D.	Rotary speed is too low	Throttle up
E.	Improper oil supply advance angle	Adjust as per the requirements

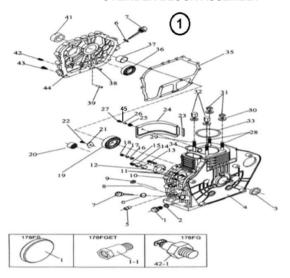
Ref. No.	KK-PART NO	KK-PART NAME	Qty
1	E1-01	Drain Plug	1
2	E1-02	Washer (Drain Plug)	1
3	E1-03	Oil Seal Sg30*45*8	1
4	E1-04	Cylinder Block.	1
5	E1-05	Needle Bearing/Hk081410	2
6	E1-06	O-Ring 24*2.4	2
7	E1-07	Oil Filler cap	2
08/09	E1-08/9	Fuel Controller	1
10	E1-10	Stud AM6*30	1
11	E1-11	Stud AM6*40	2
12	E1-12	Fuel Injection Pump Gasket (Set)	1
13	E1-13	Seal Gasket(Fuel Pump)	1
14	E1-14	Seal Plate(Fuel Pump)	1
15	E1-15	Nut M6 flanged	3
16	E1-16	Washer 6 plain	2
17	E1-17	Spring Washer 6	2
19	E1-19	Ball Bearing 6307/P5	1
20	E1-20	Needle Bearing HM1512	1
21	E1-21	Retainer(Bearing)	1
22	E1-22	Bolt M8*16 flanged	1
23	E1-23	Cushion Blocking	1
24	E1-24	Governor	1
25	E1-25	Vibration Isolation Cushion Block/Shock	1
		Absorber(Governer)	
26	E1-26	Sheath	1
27	E1-27	Bolt M6*20 flanged	1
28	E1-28	Cylinder Head Stud/M9*87	2
29	E1-29	Cylinder Head Stud/M9*104.5	2
30	E1-30	Washer (Head Nut)	4
31	E1-31	Cylinder Head Nut short	2
32	E1-32	Cylinder Head Nut ( Long)	2
33	E1-33	Cylinder Head Shim (Set)	1
34	E1-34	Cylinder Rubber Ring	1
35	E1-35	Crank Case Gasket	1
36	E1-36	Ball Bearing 6206/P5	1
37	E1-37	Main Bearing	1
38	E1-38	Pin 8*12	2
39	E1-39	Oil Pipe	1
41	E1-40	Oil Seal SG30*45*10	1
42-1	E1-41	N/A	N/A
42	E1-42	Hexagonal internal screw plug	1
43	E1-43	Bolt M8 * 33.5 flanged	15
44	E1-44	Crank Case Cover	1
45	E1-45	Washer 6*18*2	1





# Parts Diagram & List- Engine of KK-IC-305D

CYLINDER BLOCK ASSEMBLY



F.	Improper clearance of air intake and exhaust valve.	Adjust as per the requirements
G.	Parts of injection pump or injector is worn out or injection pressure is insufficient	Replace parts and adjust injection pressure.

#### Unstable working or discontinuous eruption noise

		Cause	Remedy
Α.	A. Failure of fuel system		
	1.	Air mixing in fuel system	Evacuate the air
	2.	Bad fuel quality or water	Check the fuel and replace it if
		mixing in fuel	necessary
	3.	Injector parts are jammed or	Check injector and adjust injection
		excessive injection pressure	pressure
	4.	Needle valve parts of injector	Check the parts and replace if
		is worn out or parts are	necessary.
		blocked by injector stem	
B.	B. Speed regulating system is seized		Check, repair or replace the regulating
			valve.

### Self-Shutdown of Diesel Engine:

		Cause	Remedy
A.	Fail	ure of fuel system	
	1.	Insufficient fuel in oil tank	Refill the fuel
	2.	Diesel oil filter and oil supply	
		duct are blocked or gas	Clean or evacuate the air
		leakage	
	3.	Injector parts are seized	Clean or grind parts and replace if
	Э.	injector parts are seized	necessary
B.	Fail	ure of lubrication system	
	1.	Insufficient engine oil in crank	Fill engine oil, repair damaged parts and
		case causes damages of	replace if necessary
		mechanical parts	replace if fleeessary
	2.	Bad lubrication of crank	Clean oil passage, repair damaged parts
		journal damages the bushing	Olcan on passage, repair damaged parts

#### Other Failures:

	Cause		Remedy
A.	A. Injector is seized often		
	1.	High temperature crash stop	Crash stop is not allowed.





	2.	Unclean fuel or damaged fuel filter.	Clean oil tank, replace fuel filer
B.	Eng	ine oil overflows from exhaust	
	1.	Piston or cylinder head is worn out	Check, repair and replace the piston or cylinder if necessary
	2.	Throttle duct is worn out	Check, repair and replace the throttle duct if necessary.
	3.	Piston ring is bonded or damaged	Clean or replace the piston ring
	4.	Excessive engine oil	Discharge engine oil until normal level is reached
C.	Fluc	ctuating rotary speed	
	1.	Gas leakage at the joint of oil supply pipe	Fasten the join t or replace gasket
	2.	Adjusting bolt on speed regulating spring is loosened.	Adjust and fasten
D.	Blad	ck smoke in exhaust	
	1.	Overload	Reduce load
	2.	Improper power	Select proper power
	3.	Improper oil supply advance angle	Adjust as per relevant requirements
	4.	Incomplete combustion	Check injector quality and if compression force is sufficient
E.		p the engine immediately in	
	cas	e of any of the following	
	circ	umstances:	
	1.	Fluctuating rotary speed	Check speed regulating system, air mixing in fuel passage and evacuate the air.
	2.	Abnormal noise suddenly	Check each moving part for any damage
		· · · · · · · · · · · · · · · · · · ·	

## Other Troubleshooting:

3. Black smoke in exhaust

Symptom	Cause	Remedy
The cultivating blade is broken	Collision with the hard things like stones when working	Replace the blade. Avoid colliding with hard things like stones in the earth when working
The manipulation cable is broken	Long-time abrasion in work	Replace the cable

Check the fuel system for normal oil

supply, particularly the injector.



**AGRICULTURAL INTER-CULTIVATOR** / POWER WEEDER KK-IC-305D

# **Technical Specifications**

Parameter	KK-IC-305D
Rated Power	4.47 kW (6 hp)/3600
Rated speed	3600 RPM
Displacement	296 сс
Туре	diesel engine, 4 stroke, single cylinder
Type of cooling	forced air cooling
SFC (Max)	≤310g/kWh
Bore * Stroke	78 * 62 mm
Fuel tank capacity	3.5 Ltr
Number of Gears	2 Fwd, 1 Rev
Cultivation Width	130 - 131 cm
Cultivation Depth	4.8 - 5.7 cm