

Product	Agricultural Inter-Cultivator	KisanKraft Invoice Date	
Brand	KisanKraft	KisanKraft Invoice No.	
Model	<input type="checkbox"/> KK-IC-8626 <input type="checkbox"/> KK-IC-8657		
WARRANTY PERIOD	6 MONTHS	FOR THE SPECIFIED PERIOD FROM THE DATE OF SALE OR DELIVERY WHICHEVER IS EARLIER.	
Dealer's Invoice Date		Dealer's Invoice No.	
Buyer's Info (Name, Address, Phone, etc.):		Dealer's Stamp (Address, Phone, TIN, etc.):	
Buyer's Sign		Dealer's Sign	

Warranty Policy

What is covered: KisanKraft Limited and its manufacturers warrant this product to be free from defects in material or workmanship. All parts defective in material and workmanship are covered.

This warranty will only cover defects arising under normal usage.

This warranty is limited to repair or replacement by KisanKraft Limited or its manufacturers of such parts as appear to KisanKraft or its manufacturers, upon inspection, to be defective in material and/or workmanship. KisanKraft or its manufacturers make no warranty with respect to items not manufactured or sold by them. No onsite warranty is provided by KisanKraft Limited or its manufacturers. Defective items must be brought/sent to our Authorized Dealer or KisanKraft Limited's office for service.

What is not covered: The *warranty shall become null and void* and neither KisanKraft Limited nor any of its manufacturers, nor its authorized dealers assume any responsibility, if the failure was caused by the following:

(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.

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:

- This purchase is not contingent upon a product demonstration. The purchaser shall satisfy himself with the product, including any product demonstration or verification of any function, before buying. KisanKraft Limited or its authorized dealers, including online sellers, shall not be liable to give any on-site demonstration after purchase of any of the product.
- 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.

User Manual



KisanKraft Limited

Warehouse: 818 3B1 to 818 3B18, Podalukur - Sangam Road, Prabagiripatnam, Podalukur, 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

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- ◆ Guwahati ◆ Hubli ◆ Hyderabad ◆ Jaipur ◆ Karnal
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This warranty is null & void, if you fail to register the warranty with KisanKraft by sending the KisanKraft Copy with dealer's stamp.

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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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BEFORE GETTING STARTED

We wish to thank you for choosing our product. We are confident that the high quality of our product will meet your requirement and will give you long-lasting service. The Inter-cultivator handles your most difficult intercultural/weeding jobs. It handles smoothly while the tines churn soil to ten inches deep. It creates a soft smooth seed bed, even in stony soil. This manual contains valuable information about our new inter-cultivator. It has been carefully prepared to give you helpful suggestions for operating, adjusting, and servicing. Keep this manual in a convenient place for quick and easy reference. Study it carefully, only with proper care and operation you can expect to receive the long lasting service of this inter-cultivator.

SAFETY INSTRUCTIONS

You will notice Safety Rules and Important Notes throughout this Manual. Make sure you understand and obey these warnings for your own protection.

Read and **follow** the instructions in this manual, especially in the safety section. Failure to do so could result in serious injury or death.

Take note! This safety alert symbol is found throughout. This manual. This symbol is used to call your attention to instructions concerning your personal safety and the safety of others.



THIS SYMBOL MEANS
ATTENTION! YOUR
SAFETY IS INVOLVED!
STAY ALERT!

Warning- DO's:

- Always keep a firm grip on both handles while the tines are moving and/or the engine is running. BE AWARE!! The tines may coast after throttle trigger is released. Make sure tines have come to a complete stop and engine is off before letting go of the Inter-cultivator.
- Always maintain a firm footing and good balance. Do not overreach while operating the Inter-cultivator. Before you start to use the Inter-cultivator, check the work area for obstacles that might cause you to lose your footing, balance or control of the machine.
- Thoroughly inspect the area where equipment is to be used and remove all objects that can be thrown by the machine.
- Always keep area clear of children, pets, and bystanders.
- Always stay alert. Watch what you are doing and use common sense. Do not operate unit when fatigued.
- Always dress properly. Do not wear loose clothing or jewelry, they might get caught in moving parts. Use sturdy gloves. Gloves reduce the transmission of vibration to your hands. Prolonged exposure to vibration can cause numbness and other ailments.

- While working, always wear substantial footwear and long trousers. Do not operate the equipment with barefoot or wearing open sandals.
- Always wear ear and eye protection. Eye protection must meet ANSI Z 87.1. To avoid hearing damage, we recommend hearing protection be worn whenever using the equipment.
- To reduce fire hazard, keep the engine, and petrol/gas storage area free of vegetative material and excessive grease.
- Start the engine carefully, according to the manufacturer's instructions and with feet well away from tool(s).
- Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
- Use extreme caution when reversing or pulling the machine towards you.
- Work only in daylight or good artificial light.
- Always be sure of your footing on slopes.
- Exercise extreme caution when changing direction on slopes.
- Always keep a safe distance between two or more people when working together.
- Always inspect your unit before each use and ensure that all handles, guards and fasteners are secure, operating, and in place.
- Always maintain and examine your Inter-cultivator with care. Follow maintenance instructions given in manual.

Warning- DON'Ts:

- Don't use Inter-cultivator with one hand. Keep both hands on handles with fingers and thumbs encircling the handles, while tines are moving, and engine is running
- Don't overreach. Keep a good footing at all times.
- Don't run with the machine, walk.
- Don't work on excessively steep slopes.
- Don't attempt to clear tines while they are moving. Never try to remove jammed material before switching the engine off and making sure the tines have stopped completely.
- Don't allow children or incapable people to operate this Inter-cultivator.
- Don't operate while under the influence of alcohol or drugs.
- Don't attempt to repair this Inter-cultivator. Have repairs made by a qualified dealer or repairman.

Engine/ Fuel - Warnings

DO's

- **Always** use fresh gasoline. Stale gasoline can cause damage to the machine.
- **Always** store fuel in containers specifically designed for this purpose.

- **Always** pull starter cord slowly until resistance is felt. Then pull cord rapidly to avoid kickback and prevent arm or hand injury. Stop the engine whenever you leave the machine.
- **Allow** the engine to cool before storing in any enclosure.
- **If** the fuel tank needs to be drained, this should be done outdoors.

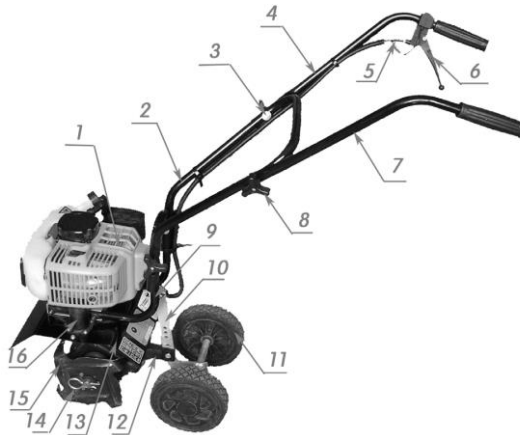
Engine/ Fuel Warnings - DON'Ts:

- **Don't** fuel, refuel or check fuel while smoking, or near an open flame or other ignition source. Stop engine and be sure it is cool before refueling.
- **Don't** leave the engine running while the Inter-cultivator is unattended. Stop engine before putting the Inter-cultivator down or while transporting from one place to another.
- **Don't** refuel, start or run this Inter-cultivator indoors or in an improperly ventilated area.
- **Don't** run engine when electrical system causes spark outside the cylinder. During periodic checks of the spark plug, keep plug a safe distance from cylinder to avoid burning of evaporated fuel from cylinder.
- **Don't** check for spark with spark plug or plug wire removed. Use an approved tester.
- **Don't** crank engine with spark plug removed unless spark plug wire is disconnected. Sparks can ignite fumes.
- **Don't** run engine when the odor of gasoline is present or other explosive conditions exist.
- **Don't** operate the unit if gasoline is spilled.
- Clean up spill completely before starting engine.
- **Don't** operate your Inter-cultivator if there is an accumulation of debris around the muffler, and cooling fins.
- **Don't** touch hot mufflers, cylinders or cooling fins as contact may cause serious burns.
- **Don't** change the engine governor setting or over speed the engine.

ASSEMBLY INSTRUCTIONS

⚠ WARNING: Improper assembly can result in serious injury. Make sure to follow all instructions carefully. If you have any questions contact our local dealer.

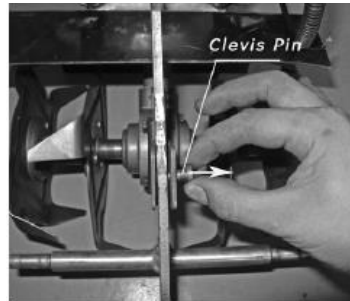
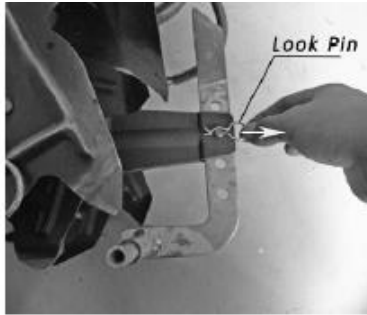
Your Inter-cultivator comes partially assembled. You must install only the handlebars, the wheels, this will take just a few minutes if you follow the directions
First, take all items out of the carton. The list below, shows the parts that come with your Inter-cultivator. Check to make sure you have them.



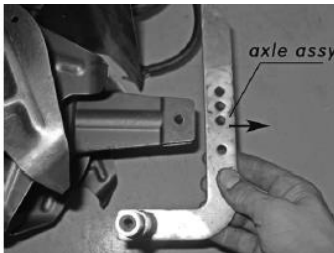
Key No	Description	Qty	Key No	Description	Qty
1.	Engine	1	9.		
2.	Middle Handle	1	10.	Axle Assembly	1
3.	Cap screw	4	11.	Wheel Assembly	2
4.	Right Handle	1	12.	Bracket Assembly	1
5.	Throttle Cable Assembly	1	13.	Fender Guard	2
6.	Throttle Lever	1	14.	Blade Bet aiming Pin	2
7.	Left Handle	1	15.	Blade	4
8.	Knob Handle	4	16.	Cover, Vent-pipe	1

How to Assemble Wheels:

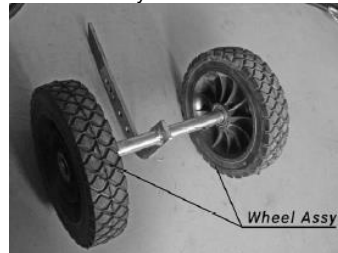
1. Remove the look pin from the clevis pin	2. Remove the clevis pin from the axle Assembly.
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3. Remove the axle assembly from the Inter-cultivator



4. Place two wheel Assembly onto the axle Assembly. Please notice the direction of the wheel Assembly



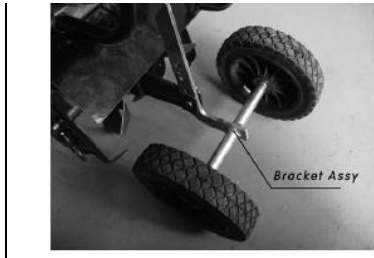
5. Fix up the wheel Assembly using a washer and a screw. Repeat on other side



6. Attach the wheel cup to the wheel Assembly. Repeat on other side.

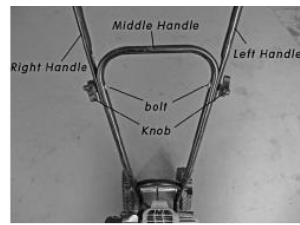
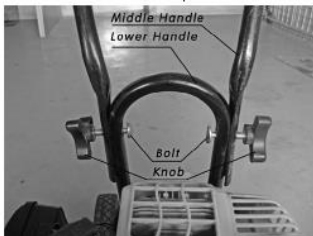


7. Attach the bracket Assembly to the Inter-cultivator. Refer step 3, step 2 and step 1.



How to Assemble Handles:

1. Attach the middle handle to the lower handle using the knobs and bolts provided. The knobs should be on the outside.
2. Attach the left handle and right handle to the middle handle using the knobs and bolts provided. The knobs should be on the outside.



Fuel Mix

Your Inter-cultivator is powered by a commercial two stroke engine which requires a fuel mixture of gasoline and lubricating oil. Use a mixture of 30 parts unleaded regular gasoline and 1 part two-stroke oil (30:1.) Make sure to use gasoline with a minimum octane number of 90 ROZ.

Recommended mixing ratio

Gasoline :Oil
30:1

Exhaust emission are controlled by the fundamental engine parameters and components (eq., carburetors, ignition timing and port timing) without addition of any major hardware or the introduction of an inert material during combustion.

How to mix fuel:

1. Pour 3 liters of the gasoline into a safe container. Do not mix the fuel and oil in the engine fuel tank.
2. Add 0.1 liters of two-cycle engine oil to the gasoline and mix. Then add the rest of the gasoline.
3. Screw the cap onto the gasoline can. Then swirl the can to blend the oil and gas.

Fueling the unit:

1. Carefully pour the fuel mix into the Inter-cultivator's fuel tank.
2. Put fuel into the fuel tank to 80% of the full capacity.
3. Fasten the fuel cap securely and wipe up any fuel spillage around the unit.

IMPORTANT: Two stroke fuel separates and ages. Do not mix more than what you use in a month. Using old fuel can cause difficult starting or engine damage. Shake fuel container thoroughly to mix fuel before each use. Do not attempt to run your engine on gasoline only, use proper fuel mixture.

Remember:

- Always mix two-cycle oil with gasoline before fueling your Inter-cultivator. Never, ever run your Inter-cultivator on gasoline alone. This will ruin your engine and void all warranties.
- Always use a clean gas can and unleaded gas.
- Never try to mix the oil and gasoline in the engine fuel tank.
- Always mix oil and gas in the proper proportions: 0.1 litres of two-cycle engine oil to 3 litres of unleaded gasoline.
- Gasohol - It can cause deterioration of rubber and/or plastic parts and disruption of engine lubrication.
- Oil for 4-cycle engine use or water coded 2-cycle engine use - it can cause spark plug fouling, exhaust port blocking, or piston ring sticking.



WARNING: Fuel is extremely flammable. Handle it with care. Keep away from ignition sources. Do not smoke while fueling your equipment

IMPORTANT NOTE:



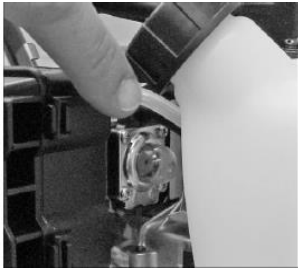
Do not use old or stale oil/gasoline mixture. Always use the proper oil/gasoline mixture. If you do not, your engine will suffer rapid, permanent damage and you will void the engine warranty.


Gasoline (Litre)	1	2	3	4	5
2-cycle oil (ml)	33.3	66.7	100	133.3	166.7

STARTING INSTRUCTIONS

Starting Your Inter-cultivator for the First Time Cold Engine)

1. Fill the fuel tank with the proper oil/gasoline mixture. (See previous section.)
2. Hand tighten the gasoline cap just until its snug.

<p>3. Move run/stop lever into the “run” position.</p>	
<p>4. Slide the choke lever back to close the engine choke</p>	
<p>5. Locate the purge bulb on the upper right of the engine, in front of the fuel tank. It sends fuel into the carburetor, for easy starting. Press the purge bulb until you see fuel flow through the clear fuel return line. Since you’re starting “cold,” you may need to press six to eight times. As soon as fuel starts flowing through the clear fuel line, stop pressing!</p>	
<p>6. Don’ t pull the throttle trigger during the starting of the engine.</p>	
<p>7. Pull the starter cord slowly until resistance is felt. Then give the recoil starter cord a few short, brisk pulls until the engine fires. During cold starting, you may need to pull at least three or four times before the engine fires. NOTE: When the choke is closed, never pull the cord more than four or five times. Over pulling may cause flooding. Also, bear in mind that, when the engine fires, it only coughs or sputters, and will not run on choke.</p>	


8. Move the choke lever to the Close (Choke)position	
9. Then pull the starter cord again. The engine should start and run. Let the engine warm up two to three minutes before using.	

Follow the above steps whenever you are starting the engine “cold”, or when the engine has run dry and you have just added fuel. Remember, always use short, brisk pulls. Don't give the cord a long, forceful yank. And, do not let the cord snap back into the starter housing.

Starting a Warm Engine:

1. Slide ignition switch to START position.
2. Move the choke lever to the Open (Run) position.
3. If there is no fuel in the clear return line, push primer bulb 3-4 times or until fuel is visible in the line.
4. Pull starter rope using short pulls, 1/2 to 2/3 of the rope length.
5. If engine fails to start in 4 pulls, use “First Time” starting procedure.
6. With engine running, and both hands on the handles, squeeze throttle trigger gradually to increase the engine speed and engage the tines.

How to Stop the Engine:

Simply push the start/stop switch to “stop.” This will stop the engine instantly. If it should ever fail to do so, just pull out the choke button. The engine will stop at once	
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About the Choke:

The choke controls the amount of air drawn into the engine. Your Inter-cultivator will run only if the choke is open — that is, if the choke is pushed in.

Special Feature (with the idle set properly and the engine running):

Even when the engine is running, the tines won't turn unless you press the throttle lever on the handlebars. And, when you release the throttle lever, the tines will stop.

Tip for Extending Your Engine's Life:

After you start the engine, let your Inter-cultivator warm up for two to three minutes before you use it. Then, before you put your Inter-cultivator away, let it idle for a minute to give the engine a chance to cool down.

⚠ WARNING: If the engine does not stop when switch is set to the stop position, release the throttle. Allow engine to idle. Put the inter-cultivator down, and pull the choke button out to cold start (closed) position. Check and return ignition switch to ON position before starting the engine again.

What to do Just in Case:

If you follow the normal starting procedure, you should have no problem starting your Inter-cultivator. But, just in case you do have problems, here's what to do.

Make sure the run/stop switch is on "run" If the switch was on "stop" when you pulled the cord, you may have flooded the engine.

- First, examine the spark plug. Use a 19 mm spark plug wrench.
- Remove the cap over the spark plug

IMPORTANT NOTE:

To avoid possible damage to the threads, do not try to remove the plug from a hot aluminum cylinder head.

- Unscrew the spark plug.

Starting a Flooded Engine:

If the end of the spark plug is wet, the engine may be flooded. Make sure the switch is in the stop position, disconnect spark plug wire and remove the plug. Use a paper towel or a clean rag to dry the spark plug, then, with the spark plug out of the engine, pull the starter cord several times. Shake the fuel out of the inside of the plug and air dry. Next, replace the spark plug. Use the wrench to tighten it and replace the cap. Next, put the switch in the start position and pull the choke button out. Pull the starter cord three or four times until the engine coughs or sputters. Open the choke (push the choke button in) and pull the cord a few times. The engine should start and run.

If the end of the spark plug is dry, check to see if the fuel line is blocked. The fuel line runs from the fuel tank to the carburetor. Pull it off at the carburetor end. Fuel should drip slowly from the line. Wipe off any excess or spilled fuel. If fuel does not drip from the line, check the line for any bends or pinches. Kinks in the line restrict the flow of fuel to the engine. Just straighten out the line. Reconnect. Then follow the normal starting procedure. If fuel drips too freely, the line may be disconnected from the fuel filter. You'll find the fuel filter inside the fuel tank. Just re-attach the line to the filter, and put the filter back in the tank. Then follow the normal starting procedure.

⚠ WARNING: Make sure the start/stop switch is in the stop position. Keep plug wire away from the engine to avoid unintentional spark.

Another Way to Start your Inter-cultivator:

If you follow the steps above and your engine still won't start, try this:

1. Push the switch to "start."
2. Move the choke lever to open the choke.
3. Press the plastic bubble a few times.
4. Give the starter cord a few short, quick pulls. The engine should start and run.
5. If the engine does not start, then move the choke lever to close the choke. Pull the starter cord four to five times. The engine should sputter or cough.
6. After the engine sputters, push the choke button in. Then pull the starter cord. The engine should start and run.
7. If the engine still does not start, repeat steps 2 through 6.

IMPORTANT NOTE:

Never use starting fluids. Starting fluids will cause permanent engine damage. Using them will void the warranty.

Intercultural/Weeding Operations


If you've seen other Inter-cultivators, your Inter-cultivator may surprise you. It weeds best when you pull it backward! When you pull your Inter-cultivator backward, you give extra resistance to the tines, so they dig deeper. What's more when you go backward, you erase your footprints, so your soil stays light and fluffy. With other Inter-cultivators, by contrast, you walk right over the soil you've just cultivated, packing it down, so it's less plant able. Place your Inter-cultivator at the head of the row or area you want to cultivate. Start it up. Then use an easy rocking motion. First, pull your Inter-cultivator backward. Then use an easy rocking motion. Again, pull your Inter-cultivator backward. Then, let it move forward just a little bit. Then pull it backward again. This will help you cultivate deeper. Keep repeating these steps until you've worked on an entire row. Start again on the next row. It's much like running a vacuum cleaner! **You Can Even Control Depth.**

For Intercultural Operations:

Move your Inter-cultivator slowly back and forth, as you would a vacuum cleaner. Work the same area over and over until you've dug to your desired depth.

For Big Weeds or Tough Roots:

Let your Inter-cultivator rock back and forth over the tough spot, until the tines slice through the weed or root.

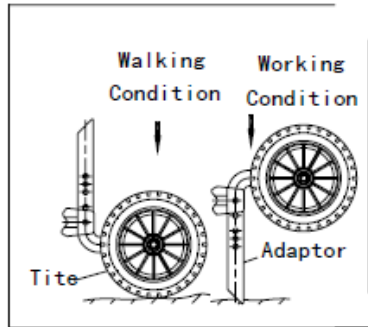
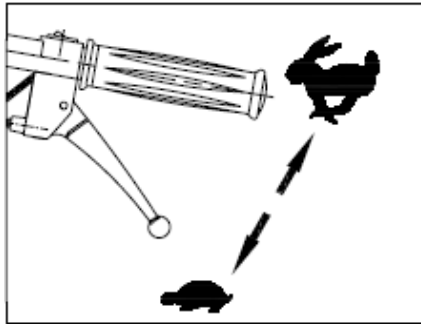
 **WARNING:** The operator of this inter-cultivator is responsible for accidents or hazards occurring to himself, other people, or their property.

INTERCULTURAL/WEEDING OPERATIONS

Guide your Inter-cultivator where you want to weed and start it up. Pull your Inter-cultivator backward slowly, then let it move forward a bit, in a gentle rocking motion.

Watch it slice, shred, and bury those weeds! Got tough weeds? Lighten your pressure on the throttle to slow your Inter-cultivator down. Then work back and forth until your Inter-cultivator chops up the weeds. It's easy and effective!

Remember, any Inter-cultivator will tangle in tall grass, stringy vines, or super-big weeds. So, if you have a "backyard jungle," first use a knife, pruner, or brush cutter to chop up the overgrowth. If the tines become tangled anyway, turn the engine off completely before trying to clear them.



⚠ WARNING:

- If your tines get jammed or entangled, shut off the engine at once.
- Remove the obstruction while the engine is off.
- Never try to remove an obstruction while the engine is running. Serious injury can result.

MAINTENANCE

How to Check, Clean and Change the Air Filter:

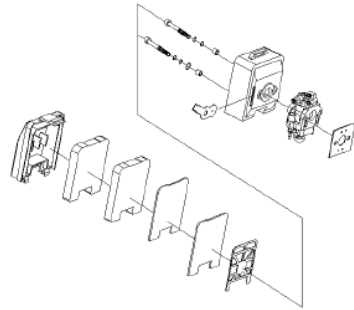
Check the air filter every 25 hours of use or more frequently if used under dusty conditions. A clogged air filter may increase fuel consumption while cutting down the engine power. Never operate the blower without the air filter or with a deformed filter element because unfiltered dusty air will quickly ruin the engine.

Cleaning Air Filter:

1. Remove the air cleaner cover by pulling the tab on side and take out the 3 filter element.
2. Use neutral detergent and warm water to clean the filter elements. After cleaning, air dry the element completely and moisten with a small amount of motor oil.
3. Place the filter element into the air cleaner housing and press the cover against the housing until it clicks.

Idle Speed Adjustment:

1. Warm up engine before adjusting idle speed.
2. The idle speed adjustment screw controls the throttle opening at idle position.
3. When the engine tends to stop frequently at idling mode, turn the adjusting screw clock wise.
4. If the tines continue to rotate even after releasing the trigger, turn the adjusting screw counter-clockwise.



Clear Blockages from the Fuel Line & Filter

After you've used your Inter-cultivator for a few seasons, check for blockages in the fuel tank and fuel filter. Such blockages can keep your Inter-cultivator away from starting. Clear any blockages you see in the tank, fuel filter, or fuel line.

Remember: The fuel filter is located inside the tank. Then use the normal starting procedure to start your Inter-cultivator.

Spark Plug:

Starting failure and mis-firing are often caused by a fouled spark plug. Clean the spark plug and check whether the plug gap is in the correct range. (0.6~0.7mm)

CAUTION: Do not over tighten the spark plug. To install the spark plug first turn the plug until it is finger tight, then tighten it a quarter turn more with a socket wrench.

Muffler:

- Inspect periodically, the muffler for loose fasteners, any damage or corrosion. If any sign of exhaust leakage is found, stop using the machine and have it repaired immediately.
- Note that failing to do so may result in the engine catching on fire.
- Never touch the cylinder, muffler, or spark plugs with your bare hands immediately after stopping the engine. The engine can become very hot when in operation, and doing so could result in severe burns.

- When checking the machine to make sure that it is okay before using it, check the area around the muffler and remove any debris. Failing to do so could cause the muffler to become overheated, and that this in turn could cause the engine to catch on fire. Always make sure that the muffler is clean and free of debris before use.
- Check the intake air cooling vent and the area around the cylinder cooling fins after every 25 hours of use for blockage. Note that it is necessary to remove the engine cover in order to view the upper part of the cylinder.

Procedures to be performed after Every 100 Hours of Use:

1. Remove the muffler, insert a screwdriver into the vent, and wipe away any carbon buildup. Wipe away any carbon buildup on the muffler exhaust vent and cylinder exhaust port at the same time.
2. Tighten all screws, bolts, and fittings.
3. Check to see if any oil or grease has worked its way in between the clutch lining and drum, and if it has, wipe it away using oil-free, lead-free gasoline.

Intake Air Cooling Vent



Maintenance (Engine)

System/ Component	Procedure	Before Use	Every 25 Hours	Every 50 Hours	Every 100 Hours	Note
Fuel Leaks, Fuel Spillage	Wipe out	✓				
Fuel Tank, Air Filter, Fuel Filter	Inspect, clean	✓	✓			Replace the Necessary components
Idle Adjusting Screw	see Adjusting Idling Speed	✓				Replace carburetor if necessary
Spark Plug	Clean and readjust plug gap				✓	GAP:0.6 - 0.7mm replace spark plug if necessary
Cylinder Fins, Intake Air Cooling Vent	Clean		✓			
Muffler, Spark Arrester, Cylinder Exhaust Port	Clean				✓	

IMPORTANT: Time intervals shown are maximum. Actual use and your experience will determine the frequency of required maintenance.

STORAGE

Take the following measures before storing your Inter-cultivator for a long period:

1. Do not store your Inter-cultivator with fuel still in it. Even under ideal conditions, stored fuel containing ethanol or MTBE can start to go stale in 30 days. And, since stale fuel has a high gum content, it can clog the carburetor, this, in turn, will restrict fuel flow. So, when you're ready to store your Inter-cultivator, or will not be using it for more than 2 weeks, drain the fuel tank completely.
2. Next, restart the engine to make sure no fuel is left in the carburetor. Then run the engine until it stops. This will prevent gum deposits forming inside of the carburetor and possible engine damage.
3. Disconnect spark plug wire and remove the spark plug. (Use a 19mm spark-plug wrench.) Pour about a teaspoon of clean, air-cooled, two cycle oil through the spark-plug hole into the combustion chamber. Slowly pull the starter cord two or three times to coat the inside of the cylinder wall.
4. Inspect the spark plug, and, , clean and replace it, if necessary
5. Install the spark plug, but leave the spark plug wire disconnected.
6. Clean the air filter as described earlier.
7. Clean dirt, grass, and other materials from the entire machine.
8. Wipe the tines with oil or spray them with WD-40, to prevent rusting.
9. Oil the throttle cable and all visible moving parts. (Do not remove the engine cover.)
10. Order new parts to replace any that are badly worn or broken. Just contact your local authorized dealer. But do it early, so you will have the parts well before the next gardening season starts.
11. Store your Inter-cultivator — in an upright position — in a clean, dry place.
12. Do you have fuel left over from last season? Dispose of it properly. Buy fresh oil and gasoline next season.

How to Prepare Your Inter-cultivator for the Restart:

When you take your Inter-cultivator out of storage, remove the spark plug. Pull the starter cord three or four times to clean oil from the combustion chamber. Wipe oil from the spark plug. Place the spark plug back into the cylinder. Reconnect the spark plug wire back on the spark plug. Then follow the steps to refuel and restart your Inter-cultivator.

Again, Check the Carburetor. If your Inter-cultivator won't restart or if it lacks its usual power -the carburetor may need attention.

Check the Spark Plug Too. If your Inter-cultivator won't restart, or if it lacks full power, the spark plug may be at fault. Check to see if the plug is fouled with oily black deposits. Clean or replace it if necessary. Also, check whether the center electrode is rounded at the end, or if the ground electrode is worn. If either is the case, you should replace it new spark plug. Use a 19mm spark-plug wrench to install it. Adjust the plug gap to 06~ 0.7mm To Install the spark plug first turn the plug until it is finger tight, then tighten it a quarter turn more with a socket wrench.

IMPORTANT NOTE:

To avoid possible damage to the threads, do not try to remove the plug from a hot aluminum cylinder head.

TECHNICAL SPECIFICATIONS

Product Code	KK-IC-8626/8657	KK-IC-8657
Rated Power	1.14 kW (1.5 hp)	1.5 kW (2 hp)
Displacement	43 cc	42 cc
Engine Type	2-Stroke/Petrol	
Rated Speed RPM/Out Put Pressure	6250 (Engine RPM) & 250 (Rotavator RPM)	7500 RPM(Eng)
Weeding Width	25.0 to 30.0 cm	25.4 cm (10")
Weeding Depth	2.0 to 2.7 cm	2.5-5 cm (1-2")
Fuel Used	Petrol	
Fuel Tank Capacity	1 L	
Oil (Mixing)	40ml (2T) oil per 1 Liter of Petrol	
Weight of the Machine	11 kg	
Fuel Consumption	0.97 L/hr	
Number of Gears	1 Fwd.	

NOTE:

- Better to give Free/Dry run up to 20 Min for new machine.
- These are INTERCULTURAL/WEEEDING implement. These are NOT suitable for weeding a virgin land.
- Machine will be used for Intercultural and weeding operations, Smoothing the soil up to 3 inches & Use Only in agriculture land with 30% to 40% Moisture

TROUBLESHOOTING

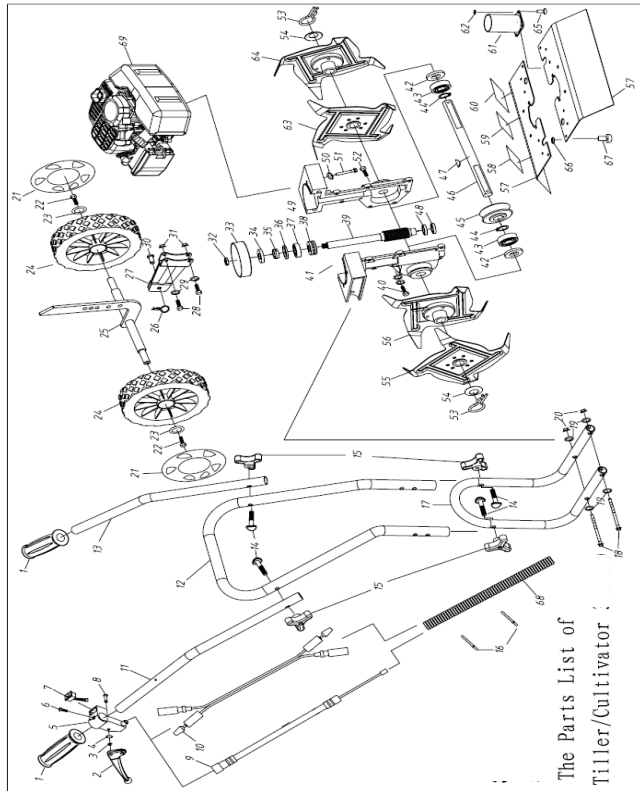
Case 1. Starting failure

Check	Probable Causes	Action to be taken
Fuel Tank	Incorrect fuel	Drain it and fill the tank with correct fuel
Fuel Filter	Fuel filter is clogged	Clean the fuel filter.
Carburetor Adjustment Screw	Out of normal range	Adjust the carburetor to normal range
Sparkling (no spark)	Spark plug is fouled	Clean the spark plug
	Wet spark plug	Wipe the spark plug dry
	Gap is incorrect	Correct (GAP: 0.6 ~0.7 mm)
Spark Plug	Disconnected	Retighten the spark plug

Case 2. Engine starts but does not keep running/ hard re-starting.

Check	Probable Causes	Action to be taken
Fuel Tank	Incorrect fuel	Drain it and fill the tank with correct fuel
Carburetor Adjustment Screw	Out of normal range	Adjust to normal range
Muffler, Cylinder (exhaust port)	Carbon is built-up	Wipe away the carbon
Air Cleaner	Clogged with dust	Clean the air cleaner
Cylinder Fin, Fan Cover	Clogged with dust	Clean the cylinder fin, fan cover.

PARTS DIAGRAM-INTER-CULTIVATOR ASSEMBLY

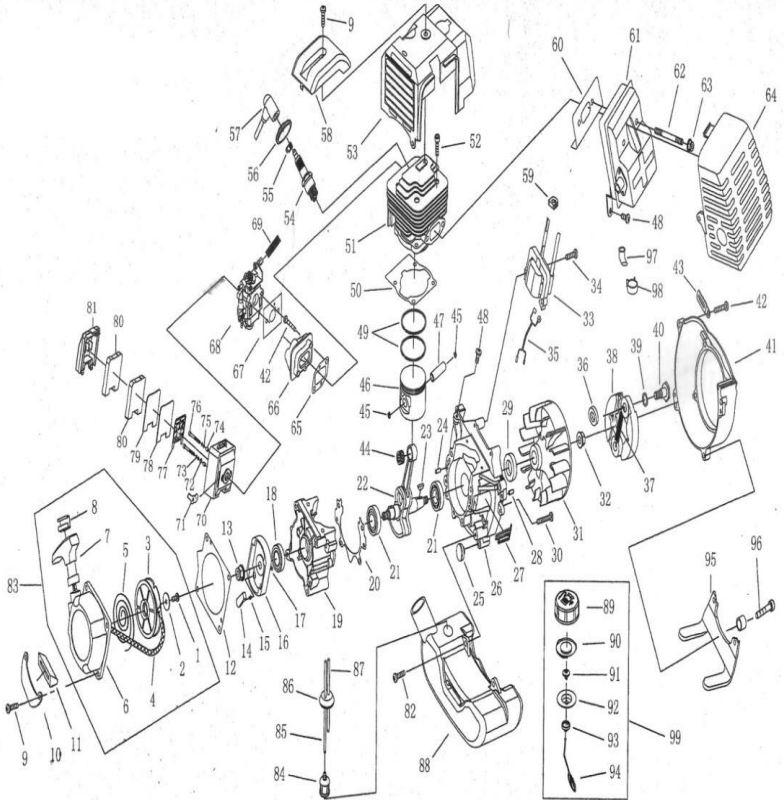


The Parts List of
Tiller/Cultivator :

PARTS LIST-INTER-CULTIVATOR ASSEMBLY

Part No	Part Name	Part No	Part Name
1.	Handle Grip	36.	Washer-Worm Shaft
2.	Throttle Lever	37.	Bearing 6002
3.	E Ring 3.5	38.	Worm Thrust Bearing 51202
4.	Washer 5-Plain	39.	Worm Shaft
5.	Throttle Bracket	40.	Screw M6x18-Hex
6.	Screw ST4.8x19	41.	Left Gear Housing
7.	Switch On/Off	42.	Oil Seal 18.9x30x5
8.	Pin-Throttle Lever	43.	Bearing 6004 Z
9.	Throttle Cable	44.	Stop Ring 20-Outer
10.	Connecting Conductor-Wire	45.	Turbine
11.	Right Handle	46.	Transmission Shaft
12.	Middle Handle	47.	Key 5x6.5x16-Transmission Shaft
13.	Left Handle	48.	Bearing 6802 Z
14.	Cap Screw	49.	Right Gear Housing
15.	Knob Handle	50.	Washer 6-Plain
16.	Tie Strap	51.	Screw M6x40-Hex
17.	Lower Handle	52.	Screw M6x10-Hex
18.	Screw M8x150-Hex	53.	Blade Retaining Pin
19.	Saddle-Backed Washer	54.	Dishing Washer
20.	Nut M8-Flanged Hex	55.	Blade A
21.	Wheel Cup	56.	Blade B
22.	Screw M6x12-Hex	57.	Fender Guard
23.	Washer 6-Plain	58.	N/A
24.	Wheel Assy	59.	N/A
25.	Axle Assy	60.	N/A
26.	Lock Pin-Bracket	61.	Cover-Vent Pipe
27.	Bracket-Axle	62.	Nut M4-Hex
28.	Screw M6x25-Hex	63.	Blade C
29.	Washer 6-Plain	64.	Blade D
30.	Clevis Pin 8x18	65.	Screw M4x14-Hex
31.	Nut M6-Flanged Hex	66.	Nut M5-Hex
32.	Nut M10-Hex	67.	Screw M5x10-Hex
33.	Clutch Drum	68.	Pipe-Throttle Cable
34.	Big Bushing Cuprum	69.	N/A
35.	Small Bushing Cuprum		

PARTS DIAGRAM-ENGINE ASSEMBLY



PARTS LIST-ENGINE ASSEMBLY

Part No.	Part Name	Part No	Part Name
1.	Screw-Rope Reel	51.	Cylinder
2.	Washer-Rope Reel	52.	Screw M5x20-Allen
3.	Rope Reel	53.	Guide Cover Assy
4.	Starter Rope	54.	Spark Plug
5.	Recoil Spring	55.	Spring-Spark Plug
6.	Starter Cover	56.	Dust Cover-Spark Plug
7.	Starter Handle	57.	Cap-Spark Plug
8.	Ring-Starter Handle	58.	Cover
9.	Screw M5x20-Star	59.	Grommet-Coil
10.	Stand-Starter	60.	Gasket-Muffler
11.	Rubber Cover-Stand Starter	61.	Muffler
12.	Gasket-Starter	62.	Stud Bolt
13.	Nut M8-Flanged Hex	63.	Nut M6-Flanged Hex
14.	Start Claw	64.	Muffler Cover
15.	Claw Spring	65.	Gasket-Insulator
16.	Start Reel	66.	Insulator
17.	E ring 4	67.	Gasket-Carburetor
18.	Oil Seal 12x22x7(Small)	68.	Carburetor (Walbro)
19.	Crankcase Small	69.	Spring-Throttle Cable
20.	Gasket-Crankcase	70.	Air Cleaner Inside Cover
21.	Bearing 6202	71.	Choker
22.	Crankshaft Assy	72.	Under Washer
23.	Key 3x13-Crank Shaft	73.	Washer 5-Spring
24.	Pin B5x12-Crankcase	74.	Sleeve-Air Filter
25.	Rubber Washer-Fuel Tank	75.	Washer 5-Plain
26.	Crankcase Big	76.	Screw M5x50-Allen
27.	Guide Cover	77.	Plate-Filter
28.	Pin B4x10-Fan Cover	78.	Screen-Filter
29.	Oil Seal 15x30x7 (Big)	79.	Felt-Filter
30.	Screw M5x30-Star	80.	Air Filter Sponge
31.	Fly Wheel	81.	Air Cleaner Outside Cover
32.	Nut M8-Flanged Hex	82.	Screw M5x16-Star
33.	Ignition Coil	83.	Starter Assy
34.	Screw M5x20-Hex	84.	Petrol Filter
35.	Cord Comp-Wire	85.	Fuel Pipe Long
36.	Washer B-Clutch	86.	Fuel Pipe Grommet
37.	Spring-Clutch	87.	Fuel Pipe Short
38.	Clutch Shoe Assy	88.	Fuel Tank
39.	Washer A-Clutch	89.	Fuel Tank Lid
40.	Clutch Bolt	90.	Gasket-Fuel Tank Lid

Part No.	Part Name	Part No	Part Name
41.	Fan Cover	91.	N/A
42.	Screw M5x25-Hex	92.	N/A
43.	Clip	93.	N/A
44.	Needle Bearing-Piston Pin	94.	N/A
45.	Circlip-Piston Pin	95.	Stand-Fuel Tank
46.	Piston	96.	Screw M5x30-Hex
47.	Piston Pin	97.	Out Let-Muffler
48.	Screw M5x12-Star	98.	Pipe Clip
49.	Piston Ring	99.	Buy #89 Fuel Tank Lid
50.	Gasket-Cylinder		

2 STROKE PETROL ENGINE- MANUAL




BEFORE GETTING STARTED

This manual describes various cautions necessary to operate the engine properly. Before starting the engine, read the manual and understand the proper method of use. (Improper use of the engine could result in accident or injury.)

Use the engine after reading and understanding also the manual of equipment driven by the engine.

Keep the manual at a safe place where you can refer whenever needed.

SAFETY INSTRUCTIONS

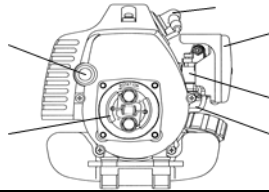
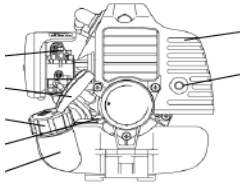
	You have to observe the descriptions indicated with this mark because they contain very important information to assure the safety
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- No person who does not understand the content of this manual should be allowed to operate the engine.
- Engine should not be operated indoors or in places with poor ventilation. (Exhaust gas contains odorless and harmful carbon monoxide.)
- Do not insert in or approach hands or foot near the moving or revolving sections.
- Do not store, spill or use gasoline at the vicinity of fire, stove, furnace or devices using the pilot flame or sparks like water heater or others. (There is risk of explosion.)
- Do not refill the fuel indoors or at a place not well ventilated.
- Do not smoke while filling the fuel.
- Do not remove the fuel tank cap or refill the fuel while the engine is still running or immediately after operation when the engine is still hot. (Wait for more than 2 minutes after terminating the operation before refilling the fuel.)
- Do not operate the engine when gasoline has spilled, smell of gasoline is felt as there is a risk of explosion.
- Do not adjust the setting engine speed unnecessarily.
- Do not check sparks while the ignition plug is removed.
- Do not operate the engine with the muffler or air cleaner cover removed. (Inspect particularly the muffler at regular intervals for loose mounting screws, breakage or leakage, and repair or replace it if any abnormality is observed.)

- Do not operate the engine when grass, leaves or inflammable substances are sticking in or around the muffler.
- Do not touch parts of muffler or engine at high temperatures. (There is risk of burns.)
- Do not touch the ignition plug or high-voltage cord during operation. (There is risk of electric shock or physical injury.)
- Make sure to stop the engine whenever the work is interrupted or moving the engine to another place.
- Do not operate the engine alone. (It must be connected to the driven equipment when it is operated).
- Check frequently the parts used on the fuel line for cracks or leakage, and replace them if necessary.
- Remove dirt, grass or other trash from the cooling fins and the cooling air inlet. (Make sure to stop the engine and the driven equipment before the cleaning.)
- Make sure to use always new gasoline. (Old gasoline may cause sticky substance adhering at the inside of carburetor causing trouble in operation.)
- Before starting the engine, confirm that the area of radius 15 m around it is evacuated and no tank filled with fuel, or others are not left over.
- Use only genuine parts supplied from the manufacturer. Use of parts other than the genuine parts could cause engine trouble or premature abrasion.

Note: Important safety items quoted in this manual do not necessarily cover all situations or conditions that could occur. Although sufficient care has been taken to assure the safety of the engine, operators or service personnel must observe necessary precautions to operate it safely and protect themselves from possible dangers.

COMPONENTS OVERVIEW



<ol style="list-style-type: none">1. Recoil starter grip2. Starter lever3. Cooling air inlet4. Fuel tank cap5. Fuel tank6. Muffler7. Exhaust outlet (Types vary depending on the specifications.)	<ol style="list-style-type: none">8. Engine switch (Types vary depending on the specifications.)9. Clutch10. Ignition plug cap11. Air cleaner12. Carburetor13. Priming button
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INSPECTION BEFORE OPERATING THE ENGINE

NOTE: In 2 Stroke engine the gasoline and engine oil are mixed and poured together.

FUEL: Use mixed oil of ordinary regular gasoline for vehicle and special 2-cycle engine oil with the proportion as shown by the following table.

Mixing ratio (Volumetric ratio):

fuel: 2-cycle engine oil
40: 1

- Do not use degenerated oil (with sour smell).
- (It could cause engine trouble such as the starting error, insufficient output, etc.)
- Make sure to clean spilled fuel. It could foul clothes or cause fire.
- Do not use 4-cycle engine oil. (It could cause fouled plug, bound piston ring, clogged muffler, or other problem.)
- Take care while handling gasoline. (As there is a risk of explosion.)

ADJUSTMENT OF THROTTLE WIRE:

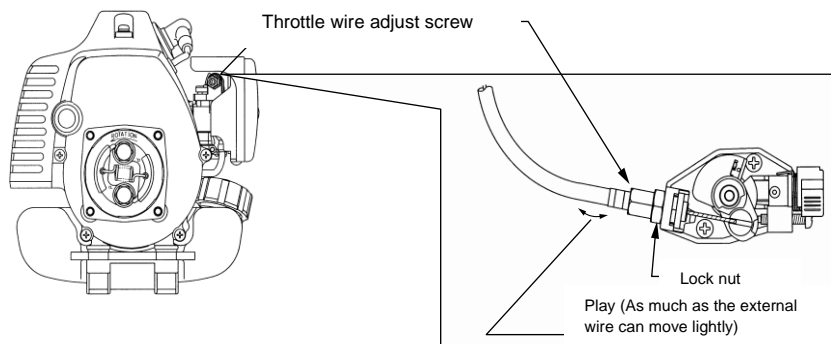
Adjust the play on the throttle wire to 0.5 ~ 1.0 mm.

LARGER PLAY

- It could cause the starting trouble.
- Revolution speed could rise unexpectedly when the external wire of throttle wire comes off from the position.

NO PLAY

- Driven equipment may fail to stop even if the throttle lever is returned.



INSPECTION OF RESPECTIVE SECTIONS:

Make sure to inspect these sections before operating the engine.

Inspection of fuel

- Is sufficient quantity of oil reserved?
- Is not the fuel degenerated?
- Use the proper fuel referring to the "Fuel" section.

CAUTION

- Sufficient care must be taken on the fire not only when replenishing but also handling fuel. It could cause fire or explosion.
- Securely close the oil tank cap. Fuel may leak if the cap is tightened aslant. It will never leak if the cap is tightened properly.
(Excluding: TL tank cap breather type)

Inspection of clogging

- Check the cooling fins, around the muffler and cooling air inlet for trash or withered grasses trapped.
- Remove them if necessary

Inspection of air cleaner

- Is not fouled the air cleaner element?
- When the element is fouled or it is not impregnated with oil, inspect and service it in accordance with "Inspection and servicing before each operation"

Inspection of screws and nuts

- Check respective sections for loose or missing screws or nuts.
- Service them if necessary.

Inspection of fuel pipes

- Check for cracks or fissures on the fuel pipe and grommet, disconnection or fuel leakage from joints on the fuel tank and carburetor.



CAUTION

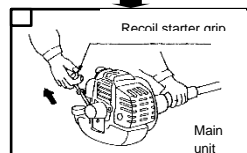
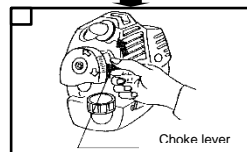
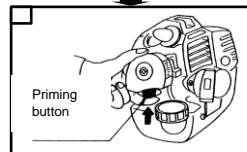
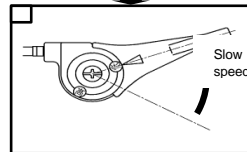
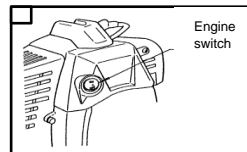
Cracks, fissures, or disconnection from joints could cause fire or explosion by leaked fuel. Service or replace damaged fuel pipe and grommet.

OPERATION INSTRUCTIONS

Methods of starting & stopping the engine

START (CHOKE TYPE UNIT):

1. Turn the engine switch to the "ON" side.
2. Set the throttle lever at the slow speed position.
3. Push the priming button repeatedly with finger until it hits the top. (More than 10 times)
Pressing the priming button is necessary to prime the fuel to facilitate the start-up. Since any excess amount of primed fuel returns to the tank, there is no problem of over-priming. Prime the fuel rather more than sufficiently to avoid starting trouble.
4. Turn the choke lever to the fully closed position
(at the  Mark).
When sufficient fuel is retained and the engine is warm, set the choke lever at the fully opened position
(at the  mark)
5. While holding down the engine firmly, grasp the recoil starter grip and pull vigorously



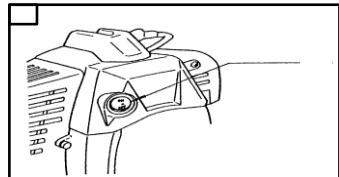
6. When the engine has started, return the choke lever gradually to the fully opened position

(at the  Mark).

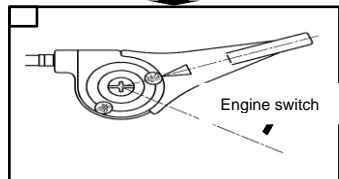
If only exploding sounds are heard, but it does not start, return the choke lever to the fully closed position, and pull the starter grip vigorously once again.

START (STARTER LEVER TYPE UNIT)

1. Turn the engine switch to the "ON" side.

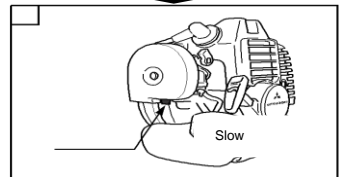


2. Set the throttle lever at the slowest speed position.



3. Push the priming button repeatedly with finger until it hits the top. (More than 10 times)

Pressing the priming button is necessary to prime the fuel to facilitate the start-up. Since any excess amount of primed fuel returns to the tank, there is no problem of over-priming. Prime the fuel rather more than sufficiently to avoid starting trouble.

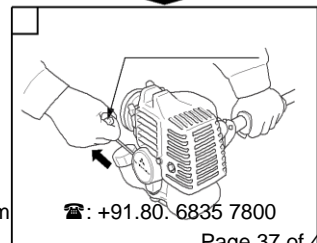
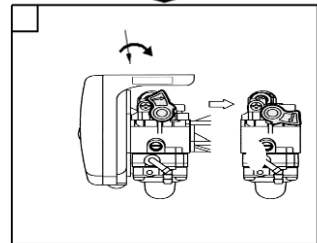


4. Turn down the starter lever of carburetor to set it at the start position.

It is not necessary to operate the starter lever when the engine is warmed up (For about 15 minutes after stopping the engine.)

(To be left in the operating position)

Depending on specifications, the starter lever may be provided at the throttle wire side.



5. While holding down the engine firmly, grasp the recoil starter grip and pull vigorously

⚠ CAUTION:

- a) When the engine stops on the way after starting, or
- b) When the engine fails to start after trying the recoil operation for 7 to 8 times.

Return the starter lever to the operating position and try the recoil operation.

6. If you move the throttle lever to the high-speed side a little after the engine has started, the starter lever returns to the operating position. Continue the warm-up operation for 2 to 3 minutes in this condition. Observing the condition of the engine, move the throttle lever to a desired engine speed.

START

⚠ CAUTION

- Before starting the engine, confirm that the area of radius 15 m around the engine is completely evacuated.
- Do not operate the engine when any flammable material (gasoline, volatile chemicals, or others) is present around it.
- Driven equipment may start simultaneously with the start of engine. Carefully read the instruction manual of the equipment and start the engine carefully.
- When a class FC oil is used, a larger resistance may be felt when pulling the recoil starter grip under low temperature condition or at the initial operation at the next season. This is related to the characteristic of the oil and there is no problem on the engine. Once started, it will return to the normal condition

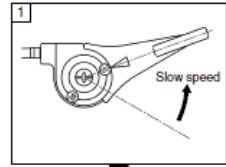
Concerning New Start System

It can start even if it is pulled slower than normal.

- If the rope is pulled (vigorously) until it will not come out anymore, it could damage the recoil mechanism.
- Do not disassemble the recoil.
It is dangerous to disassemble the inside of recoil. (Consult your dealer when it is necessary to replace related parts.)
- If the decompression slot of cylinder is clogged, the engine may start slower than normal. Clean the slot to restore the normal condition.

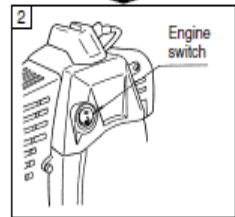
STOP

1. Set the throttle lever at the slow speed position.



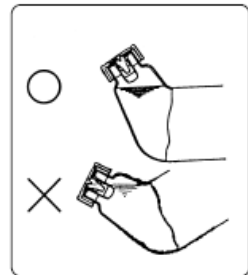
2. Turn the engine switch to the "OFF" position. (Switch position may vary depending on the specifications. Refer to the instruction manual of driven equipment.)

- In chase of a push button type switch, keep pressing the push button until the engine stops completely.
- Replenish the fuel before using up completely. It will make easier at the next starting.
 - When there is no subsequent work, drain the fuel from the fuel tank and restart the engine to use up the fuel remaining in the carburetor.



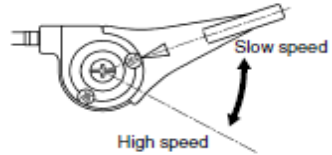
CAUTION

- Place the engine at a horizontal position when the driven equipment is not used at the rest time, or others, in summer season. (If the tank is tilted as much as the inside of fuel cap is submerged in the fuel, the fuel may leak.)
- Do not touch the engine body, especially the muffler, during or immediately after stopping the operation. (There is risk of burn.)



PRECAUTIONS DURING OPERATION

- After starting the engine, set the throttle lever at the slow speed position and warm up the engine for approx. 2~3 minute. As the engine warms up, the engine will be accelerated smoothly.
- Do not attempt to raise the engine speed abruptly immediately after the start because the lubrication oil may not be distributed yet all over the engine.
- If the throttle lever is turned to the fully opened position, the revolution speed picks up to a considerably higher level, which could not only shorten the life of engine but also cause trouble. It should be avoided to race the engine at high speed under no load condition or raise the speed unnecessarily.
- Before starting operation, make sure to inspect the engine in accordance with the "Inspection before starting the engine".
- Do not operate the engine at the indoor or a place with poor ventilation. (Exhaust gas contains odorless and harmful carbon monoxide.)
- Do not insert in or approach hands or foot at the moving or rotating sections.
- Stop the engine immediately if it has been discovered any leakage of fuel or gas from the carburetor, muffler, fuel tank, crankcase, cylinder or mating face at respective sections. (Contact a dealer or service center for repair.)
- Do not change the setting revolution speed of engine unnecessarily.
- Be careful not to touch highly heated muffler or sections on the engine to avoid possible risk of burn.
- Do not operate the engine while withered grasses, leaves or other inflammable substances are sticking in or around the muffler cover.
- Do not touch the ignition plug cap or high-voltage cord during operation. (There is risk of electric shock or physical injury.)
- Do not operate the engine with the muffler or air cleaner cover removed



ADJUSTING THE CARBURETOR

! Engine revolution speed is adjusted at the optimum condition before shipping from the factory. It should be adjusted only when it fails to operate properly. (Consult your dealer when adjustment is necessary.)

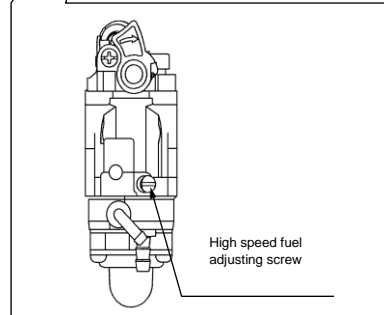
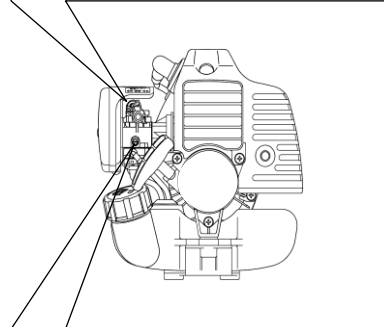
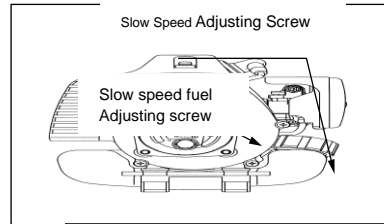
1. Use the slow speed adjusting screw to adjust the slow speed revolutions.
 - Right turns: Increase the revolution speed.
 - Left turns: Slow down the revolution speed.

! Increasing the slow revolution excessively causes the driven equipment unable to stop even if the throttle lever is returned. The revolution speed should not be increased excessively.

2. In case with the slow speed fuel adjusting screw, Normal position is where it is returned by one turn from the fully closed position (right turn).
 - Right turns: Increase the thickness of fuel.
 - Left turns: Decrease the thickness of fuel.
3. In case with the high-speed fuel adjustment screw
 - Right turns: Decrease the thickness of fuel.
 - Left turns: Increase the thickness of fuel.

! Fuel adjustment for the carburetor is completed at the optimum condition before shipping from the factory. When it is necessary to adjust, consult your dealer.

! Do not decrease the thickness of fuel too much. (It could result in the seizure trouble of engine.)



INSPECTION AND SERVICE

Table of regular inspections

Item \ Time	Before Each Operation	At Every 50-hours	At Every 100-hours	2 Years
Inspection and retightening of bolts, nuts	✓			
Inspection of fuel leakage	✓			
Inspection, cleaning of air cleaner	✓			
Cleaning at cooling air inlet, cooling fin and around muffler	✓			
Inspection, cleaning of ignition plug		✓		
Inspection, cleaning of fuel filter		✓		
Removal of carbon from muffler, cylinder		✓		
Cleaning of spark arrestor		✓		
Replacement of ignition plug			✓	
Replacement of fuel piping (fuel pipe and grommet)				✓

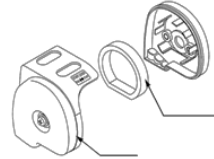
INSPECTION AND SERVICE BEFORE EACH OPERATION

Cleaning of air cleaner

Wash the element with white kerosene and then immerse it in engine oil. Squeeze it tightly with single hand.



Use of fire is strictly prohibited



Cleaning and service at respective sections

- Clean thoroughly around the muffler.
- Clean the cooling fins and the cooling air inlet.
- Inspect and retighten bolts and nuts.
- Inspect the fuel leakage.

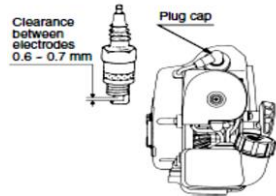
INSPECTION AND SERVICE AT EVERY 50-HOUR

Cleaning and adjustment of ignition plug

After removing carbon accumulated on the electrodes and the insulator, adjust the clearance between the electrodes at 0.6 ~ 0.7 mm



When mounting the plug cap, push it in securely



Cleaning of fuel filter

Using a piece of wire, or the likes, pull out the fuel filter and wash with clean white kerosene. When it is fouled heavily, replace the filter and also wash the tank inside.



Use of fire is strictly prohibited

Carbon removal

Remove carbon from the muffler in-/outlet, cylinder and piston.


This work requires engine servicing skill and some tools. Consult the dealer or nearest service center.

CAUTIONS DURING INSPECTION


- Disconnect the ignition plug wires before inspection or adjustment to prevent unexpected start of engine.
- Do not touch the engine immediately after operation to prevent burn.
- Use of fire is strictly prohibited when handling the fuel (gasoline).
- Make sure to clean spilled fuel sufficiently before using the engine.
- Do not wash the engine with water.
- Do not change the setting revolution speed carelessly. (Consult your dealer when changing the revolution speed.)

STORAGE

When releasing the engine from operation for more than 30 days, it must be serviced and stored as follows with care to prevent the starting trouble or malfunction due to degeneration of fuel.

1. Drain the fuel from the fuel tank and start to run the engine until it is stopped due to use-up of fuel.
2. Wash the inside of fuel tank and fuel filter with white kerosene.
 Use of fire is strictly prohibited
3. Removing the ignition plug, inject a small quantity of new engine oil through the plughole. After idling slowly for few revolutions operating the recoil starter, install the ignition plug. Pull the recoil starter again and stop it at the position where it is felt heavy.
4. Clean the external surfaces with soft cloth and store it at a dry place free from fires.

NOTE: If the unit is left over without draining fuel, impurities in the fuel could clog the fuel passages such as the carburetor, fuel filter, or others, and cause engine troubles. Make sure to drain the fuel when storing the unit for a long period of time.

 Sufficient care must be taken not to use fires at the vicinity when handling the fuel.

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

<p>Brush Cutters and Accessories</p> <ul style="list-style-type: none"> 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 <p>Chainsaws</p> <ul style="list-style-type: none"> Petrol Chainsaw Electric Chainsaw Chain Sharpening Machine <p>Engines and Water Pumps</p> <ul style="list-style-type: none"> Engine –Diesel-(Horizontal) Engine –Diesel (Vertical) Engine-Kerosene Water Pump with Petrol Engine Water Pump with Kerosene Engine Water Pump with Diesel Engine <p>Hand Tools</p> <ul style="list-style-type: none"> 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 <p>Garden Tools</p> <ul style="list-style-type: none"> Electric Pressure Washer Hedge Trimmer Lawn Mower (Electric, Petrol & Manual) Leaf Blower 	<p>Cultivators and Accessories</p> <ul style="list-style-type: none"> Petrol and Diesel <p>Sprayers and Accessories</p> <ul style="list-style-type: none"> 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 <p>Milking Machine</p> <ul style="list-style-type: none"> Wood Shredder Fodder Ensiling Chaff Cutter Fodder Grinder Chaff Cutter Fodder Mini Chaff Cutter <p>Harvester</p> <ul style="list-style-type: none"> Maize Sheller Maize Sheller + Dehusker Maize Combine Harvester Onion Digger Carlotti Italy Tea Leaf Harvester Sugarcane Combine Harvester Sugarcane Leaf Stripper <p>Transplanter and Post Hole Digger</p> <ul style="list-style-type: none"> Paddy Transplanter (2 & 8 Rows) Transplanter-Vegetable & Tobacco Post Hole Digger (4" to 14" Augers)
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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.



Product	Agricultural Inter-Cultivator	KisanKraft Invoice Date	
Brand	KisanKraft	KisanKraft Invoice No.	
Model	<input type="checkbox"/> KK-IC-8626 <input type="checkbox"/> KK-IC-8657		
WARRANTY PERIOD	6 MONTHS	FOR THE SPECIFIED PERIOD FROM THE DATE OF SALE OR DELIVERY WHICHEVER IS EARLIER.	
Dealer's Invoice Date		Dealer's Invoice No.	
Buyer's Info (Name, Address, Phone, etc.):		Dealer's Stamp (Address, Phone, TIN, etc.):	
Buyer's Sign		Dealer's Sign	

Warranty Policy

What is covered: KisanKraft Limited and its manufacturers warrant this product to be free from defects in material or workmanship. All parts defective in material and workmanship are covered. This warranty will only cover defects arising under normal usage.

This warranty is limited to repair or replacement by KisanKraft Limited or its manufacturers of such parts as appear to KisanKraft or its manufacturers, upon inspection, to be defective in material and/or workmanship. KisanKraft or its manufacturers make no warranty with respect to items not manufactured or sold by them. No onsite warranty is provided by KisanKraft Limited or its manufacturers. Defective items must be brought/sent to our Authorized Dealer or KisanKraft Limited's office for service.

What is not covered: The *warranty shall become null and void* and neither KisanKraft Limited nor any of its manufacturers, nor its authorized dealers assume any responsibility, if the failure was caused by the following:

- (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.

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,

This warranty is null & void, if you fail to register the warranty with KisanKraft by sending the KisanKraft Copy with dealer's stamp.

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:

- This purchase is not contingent upon a product demonstration. The purchaser shall satisfy himself with the product, including any product demonstration or verification of any function, before buying. KisanKraft Limited or its authorized dealers, including online sellers, shall not be liable to give any on-site demonstration after purchase of any of the product.
- 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.

This warranty is null & void, if you fail to register the warranty with KisanKraft by sending the KisanKraft Copy with dealer's stamp.