

Warranty Certificate (KISANKRAFT COPY)

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

No Warranty On Electrical Motor / Electrical Parts / Battery Etc.

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 warranty 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.

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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, deliver the defective product, to the nearest Authorized Dealer. 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 Machine Tools Pvt Ltd with respect to any warranty claim is final.

Receipt is required for availing warranty services

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

Our Products	 ◆Chainsaws◆Brush Cutters and Accessories◆Harvesters◆ ◆Engines and Water Pumps◆ Hand Tools◆Garden Tools◆ ◆Cultivators and Accessories◆Sprayers and Accessories◆ ◆Transplanter and Post Hole Digger ◆ Milking Machines ◆
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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.

KisanKraft Limited (formerly known as KisanKraft Machine Tools P Ltd)

⑤: www.kisankraft.com ⊠: info@kisankraft.com ☎: +91.80.22178200



Warranty Certificate

(DEALER COPY)

Product	Brush Cutter	KisanKraft™ Invoice Date	
Brand	KisanKraft	KisanKraft [™] Invoice No.	
Model	 □ KK-BC2-JP30 □ KK-BC2-JP45 □ KK-TC2-JP45 □ KK-SBC2-JP43 		
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	

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 at the premises of Authorized Dealers, 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 trade accessories not manufactured or sold by them.

What is not covered: The *warranty shall become null and void* and neither KisanKraft Limited nor any of its manufacturers, nor its authorized dealers assumes 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

Note: The 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.

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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.





BRUSH CUTTER KK-BC2-JP30/JP45 , KK-TC2-JP45, KK-SBC2-JP43

Operation Manual



KisanKraft Limited

(Formerly known as KisanKraft Machine Tools Pvt Ltd)

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

◆ Bangalore (HO) ◆ Ahmedabad ◆ Bhopal ◆ Bhubaneswar ◆ Coimbatore ◆

- ◆ Guwahati ◆ Hyderabad ◆ Jaipur ◆ Karnal ◆ Kolkata ◆
 - ♦ Lucknow ♦ Jammu ♦ Pune ♦ Raipur ♦ Shimla ♦



CONTENTS

BEFORE GETTING STARTED	7
SAFETY SYMBOLS	7
SAFETY INSTRUCTIONS	8
PRODUCT OVERVIEW 1	13
TECHNICAL SPECIFICATIONS 1	15
INSTALLATION – ASSEMBLY 1	16
OPERATING INSTRUCTIONS 1	18
SELECTION OF ROTARY CUTTER 2	21
INSPECTION & MAINTENANCE 2	22
STORAGE	25
TROUBLESHOOTING	26
PARTS DIAGRAM & LIST (KK-BC-JP30) 2	27
PARTS DIAGRAM & LIST (KK-BC2 - JP45 & TC2 - JP45)	37
2-STROKE PETROL ENGINE-MANUAL	51

KisanKraft[®]

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	Cultivators and Accessories
Brush Cutter/Power Weeder	Petrol and Diesel
Backpack Brush Cutter Tea Pruner	Sprayers and Accessories
Pole pruner with Engine	Battery Sprayer
Reaper Attachment	Portable Power Sprayer
Blades-Circular	Trolley Sprayer
Blades (2 &3 points)	Manual Knapsack Sprayer
Baffle	Manual Pressure Sprayer
Nylon Rope	Rose Cans
Tap & Go	Hose Crimping Machine
Chainsaws	HTP Sprayer
Chanisaws	HTP Delivery Hose
Petrol Chainsaw	HTP Hose Reel
Electric Chainsaw	HTP Stand
Chain Sharpening Machine	HTP Gun / Lance(Brass Rod
Engines and Water Pumps	Knapsack Power Sprayer Mister / Duster / Granuel Spreader
Engine – Diesel- (Horizontal)	HTP Sprayer Set with Diesel Engine
Engine – Diesel (Vertical)	HTP Sprayer Set with Kerosene Engine
Engine-Kerosene	Fogging Machine
Water Pump with Petrol Engine	Milking Machine
Water Pump with Kerosene Engine	-
Water Pump with Diesel Engine	Wood Shredder
Hand Tools	Fodder Ensiling Chaff Cutter
Secateurs	Fodder Grinder Chaff Cutter
Folding Saw	Fodder Mini Chaff Cutter
Garden Rake Garden Shovel	Harvester
	Maize Sheller
Hedge Shear Lopper	Maize Sheller + Dehusker
Telescopic Hedge Shear	Maize Combine Harvester
Telescopic Lopping Shear	Onion Digger Carlotti Italy
Tree Pruner	Tea Leaf Harvester
Telescopic Steel Pipe & Fruit Picker Bag	Sugarcane Combine Harvester
Sheep Shear	Sugarcane Leaf Stripper
Garden Tools	Transplanter and Post Hole Digge
Electric Pressure Washer	Paddy Transplanter (2 & 8 Rows)
Hedge Trimmer	Transplanter-Vegetable & Tobacco
Lawn Mower (Electric, Petrol & Manual)	Post Hole Digger(4" to 14"Augers)

Leaf Blower



2-Stroke Petrol Engine

KisanKraft[®]

Warranty Certificate

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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 till 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

The Company reserves the right to change or correct the contents of this manual without prior notice or obligation

A MITSUBISHI HEAVY INDUSTRIES, LTD. GENERAL MACHINERY & SPECIAL VEHICLE HEADQUARTERS

MEIKI GASOLINE ENGINE DEPARTMENT ADMINISTRATION SECTION 1-Takamichi, Iwatsuka-cho, Nakamura-ku, Nagoya 453-8515, Japan Tel: 81-52-412-1278. Fax: 81-52-412-7811

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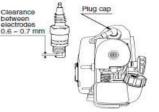


2-Stroke Petrol Engine

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 $0.6 \sim 0.7$ 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.

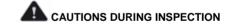


Use of fire is strictly prohibited

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.



- 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.)



2-Stroke Petrol Engine

KisanKraft®

BRUSH CUTTER KK-BC2-JP30/JP45, KK-TC2-JP45 KK-SBC2-JP43

INSPECTION AND SERVICE

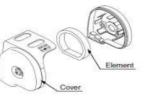
Table of regular inspections

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		\checkmark		
Inspection, cleaning of fuel filter		✓		
Removal of carbon from muffler, cylinder		~		
Cleaning of spark arrestor		~		
Replacement of ignition plug			\checkmark	
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 ٠ cooling air inlet.
- Inspect and retighten bolts and nuts. ٠
- ٠ Inspect the fuel leakage.



BEFORE GETTING STARTED

You are now the proud owner of a KisanKraft product. It is made of the finest materials and under a rigid quality control system. It will give you long and satisfactory service. To obtain the best use of our products, please read this manual carefully

It will help you become familiar with the operation of the product and contains many useful hints about the product maintenance. It is KisanKraft's policy to utilize as guickly as possible every advance in our research. The immediate use of new techniques in the manufacture of products may cause some small parts of this manual to be outdated. KisanKraft distributers and dealers have the most up-to-date information. Please do not hesitate to consult them.

SAFETY SYMBOLS

througho to warn instructio instructio	hbol, the industry's "Safety Alert Symbol" is used but this manual and on labels on the machine itself of the possibility of personal injury. Read these ons carefully. It is essential that you read the ons and safety regulations before you attempt to e or use this unit.		
Read the	e operation manual carefully		
Always v	vear eye and ear protectors when using this unit		
	ansporting, checking or adjusting the unit be sure the stopped.		
	ople out of the danger zone. This is a circle of 15 dius around the unit and operator.	P.	
This is the safety alert symbol. When you see this symbol in this manual, be			



alert and avoid personal injury.

When accompanied by the words "CAUTION" & "WARNIRNG", it calls vour attention to items or operations which can lead to serious injury.

KisanKraft®

BRUSH CUTTER KK-BC2-JP30/JP45, KK-TC2-JP45 KK-SBC2-JP43

UNDERSTAND SIGNAL WORDS AND FOLLOW SAFETY INSTRUCTIONS

WARNING: To avoid serious injury

You should pay special attention to the above "WARNINIG" signal text given in this manual as failure to do so could result in injury or death to the operator.

CAUTION: To avoid serious injury

You should pay special attention to the above "CAUTION" signal text given in this manual as failure to do so could result in mechanical damage or failure.

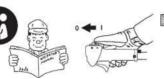
NOTE: This symbol refers to an area or subject of special merit emphasizing either the products capabilities, common errors in operation, maintenance and instructions which are of special interest.



A circular band with a diagonal slash means whatever is shown is prohibited.

SAFETY INSTRUCTIONS

Read the operator's manual carefully. Be familiar with the controls and the proper use of the unit. How to turn the unit off, and how to unhook the harness quickly in an emergency.



Dress:



WARNING: To avoid serious injury

1. There is a great risk to eves from thrown objects. Always wear proper eve protection in accordance with standards



- 2. Dress in long pants and wear boots or safety shoes. Wear leg guards when cutting large or thorny material
- 3. DO NOT wear open-toed shoes or go baraefoot or barelegged.DO NOT wear loose or dangling clothing. neckties, scarfs, or jewellwey which could be caught in eh unit or the vegetaion



ाल्ज्ञा

Secure hair under hat. 4



KisanKraft[®] 2-Stroke Petrol Engine

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.

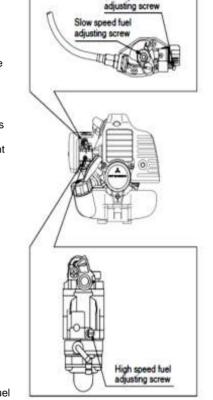


Increasing the slow revolution excessively causes the driven equipment unable to stop even if the throttle lever is returned. The revolution speed should not be increased excessively.

- 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.)



Slow speed

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Page 8 of 68

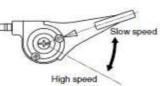
(\$): www.kisankraft.com ⊠: info@kisankraft.com



2-Stroke Petrol Engine

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 worms 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



BRUSH CUTTER KK-BC2-JP30/JP45, KK-TC2-JP45 KK-SBC2-JP43

Environmental Precautions:

 Never allow children to operate or play with the machine. Never allow anyone without proper instruction to use the unit.

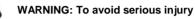
Keep people out of the danger zone. This is a circle of

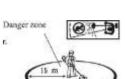
15m radius around the unit and operator





2.





- Operate only where firm footing is assured. DO NOT operate from a ladder or any other place where use of hands would ordinarily be necessary to prevent falls.
- DO NOT operate under the influence of alcohol, drugs, medications or substances which can affect your vision, dexterity or judgment. You must be healthy physically and mentally in order to operate safely.



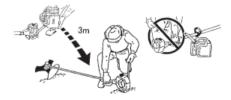
 DO NOT operate in unventilated areas. Exhaust gas is highly poisonous.

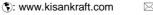
Strictly No Fire:



WARNING: Handle petrol with care. It is highly flammable

- Move at least three meters away from the fueling point before starting engine.
- DO NOT remove the fuel cap when engine is still warm or running.
- Eliminate all sources of sparks or flame (including smoking, open flames, or work that could cause sparks) in the areas where fuel is mixed, poured, or stored.





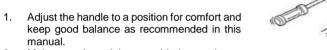


- 4. Always stop the engine to refuel the tank.
- Handle in a clean and dry place away from fire. 5.
- DO NOT smoke while handling fuel. 6.
- 7. Always store petrol in an approved container. 8. DO NOT refuel a hot engine. Wait until the engine has cooled down.
- 9. Avoid spilling of fuel or oil. Spilt fuel should always be wiped off.
- 10. Mix, pour, and store petrol in an approved marked container and in a well-ventilated area.

Checks before Starting:

manual.





- 2. Make sure the unit is assembled properly.
- 3. Always use a harness if provided with the unit. Balance the unit as recommended by adjusting the position of the harness



- WARNING: To avoid serious injury
- 4. Hold the unit down firmly so that you may not lose control while cranking. If not held down properly, the engine could pull you off balance or swing the cutting line into an obstruction or your body.



- 5. DO NOT cut with dull, cracked or damaged metal blade.
- Keep the unit and attachments in good working condition. Tighten fastening 6. parts at regular intervals. Check the cutting head assembly before using each time.



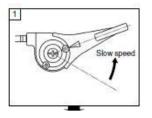
2-Stroke Petrol Engine

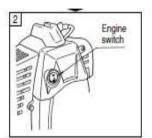
STOP

- Set the throttle lever at the slow speed 1. 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 till 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.







- 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.)



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2-Stroke Petrol Engine

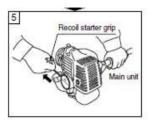
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 While holding down the engine firmly, grasp the recoil starter grip and pull vigorously

CAUTION:

a) When the engine stops on the way after starting, orb) 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

- 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 it 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) till it will not come out any more, 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.

NOTE:

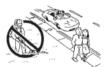
7. Thoroughly inspect the area where the unit is to be used and remove all stones, sticks, wire and other objects that could cause injury if thrown at high speeds.



- 8. Never operate the unit without proper guards, shields or other safety protective devices in place and properly connected. Inspect to determine that these safety devices are installed properly, are in good condition and operate properly. If the condition or operation of the devices are abnormal, they must be repaired or replaced before using the unit.
- 9. Make sure the cutting head stops turning when the throttle trigger is released and the engine runs at idle speed.
- 10. DO NOT use any accessory or attachment other than those supplied by the manufacturer for use with this particular unit.
- 11. Use only for jobs mentioned in this manual.
- 12. Inspect the entire unit before using each time for worn, loose, or damaged parts. DO NOT use until the unit is in proper working order.
- 13. DO NOT attach any blade to a unit without proper installation of all required parts.

Cautions during Operation:

 If necessary to cut where people or cars could be hit by thrown objects, cut at reduced (slow) throttle speed to reduce the speed of the cutting head.





CAUTION: To avoid serious injury

 Shut down immediately if the unit starts to shake or vibrate. This could be a sign of danger from a broken part or missing fasteners.



3. Disconnect spark plug wire before you work on the unit or leave it unattended.



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4. Always keep both hands on the control handles. DO NOT operate one-handed. DO NOT hold material you are cutting.



WARNING: To avoid serious injury

- After shutting down the engine, keep fingers and feet away from the cutting head until all rotation stops.
- 6. Never use wire in place of nylon monofilament cutting lines. The wire tip can break off during cutting and become a dangerous missile.
- 7. DO NOT put hands or feet near or under rotating parts while engine is running.
- 8. BLADE THRUST may occur when the spinning blade contacts a solid object in the critical area. A dangerous reaction may occur causing the entire unit and operator to be thrust violently. This reaction is called BLADE THRUST. As a result the operator may lose control of the unit which may cause serious or fatal injury. BLADE THRUST is more likely to occur in areas where it is difficult to see the material to be cut.
- 9. To avoid hitting small stones or other debris, do not cut too close to the ground.
- 10. Keep cutting attachment below waist level.
- After striking a foreign object or if the unit vibrates abnormally, stop the engine, disconnect and secure the spark plug wire. Inspect the unit for any damage and repair it if necessary.
- 12. Cover the blade when storing or during transport.
- The muffler side of the engine should be away from your body. This is necessary to avoid arm burns.





2-Stroke Petrol Engine

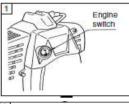
6. When the engine has started, return the choke lever gradually to the fully opened

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.

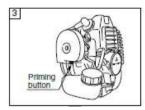


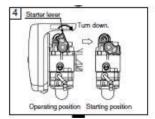
- 2 Slow speed
- 2. Set the throttle lever at the slowest speed position.
- 3. Push the priming button repeatedly with finger till it hits the top. (More than 10 times)

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.

 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.





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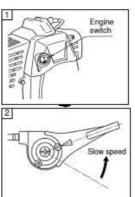


2-Stroke Petrol Engine

METHODS OF STARTING AND STOPPING THE ENGINE

START (CHOKE TYPE UNIT)

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



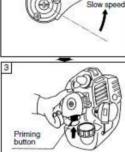
- 2. Set the throttle lever at the slowest speed position.
- Push the priming button repeatedly with finger till it hits the top. (More than 10 times) Pressing the priming button is necessary to prime the fuel to facilitate the start-up. Since any excess amount of primed fuel returns to the tank, there is no problem of overpriming. 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

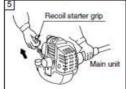
mark)

position (at the

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







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Precautions after Operation:



1. Do not store the unit with fuel in the tank, because a fuel leak could start a fire. Allow the engine to cool before storing in any enclosure.

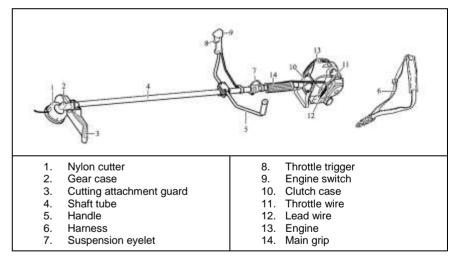
 Before cleaning, repairing or inspecting, make certain cutting head has stopped. Disconnect and secure the spark plug away from plug to prevent accidental starting



- 3. Use only recommended, genuine replacement parts to avoid creating a hazard and/or voiding your warranty.
- 4. Store in a dry area out of reach of children.

PRODUCT OVERVIEW

KK-BC2-JP30:

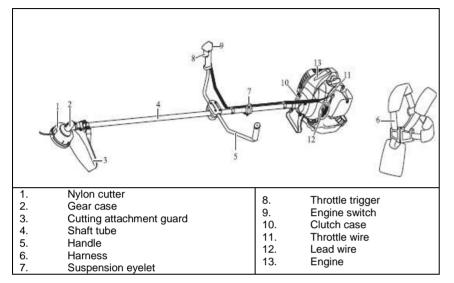


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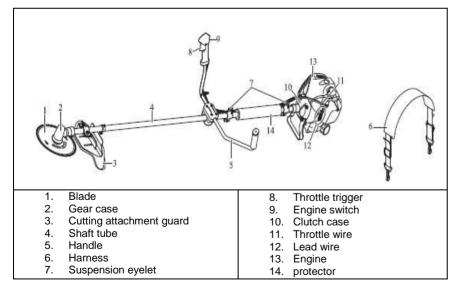
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KK-BC2-JP45:



KK-TC2-JP45:



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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.

A 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 vhegorg.

(Excluding: TL tank cap breather type)

Inspection of air cleaner

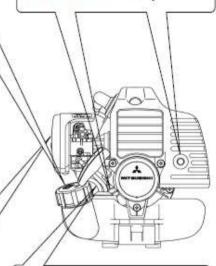
Is not fouled the air cleaner element? When the element is fouled or it is not impregnated with oil, inspect and service it in accordance with "Inspection and servicing before each operation" on page 12.

Inspection of screws and nuts

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



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

A CAUTION

0

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



2-Stroke Petrol Engine

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INSPECTION BEFORE OPERATING THE ENGINE

FUEL:

Use mixed oil of ordinary regular gasoline for vehicle and special 2-cycle engine oil with the proportion as shown in the following table. Mixing ratio (Volumetric ratio):

Gasoline : 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 others.)

CAUTION

Take care of fire when handling gasoline. (There is a risk of explosion.)

ADJUSTMENT OF THROTTLE WIRE

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

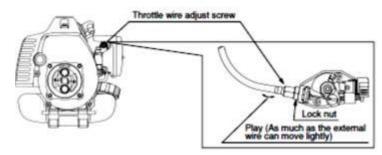
LARGER PLAY

It could cause the starting trouble.

Revolution speed could rise unexpectedly when the external wire of the throttle wire comes off from the position.



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



TECHNICAL SPECIFICATIONS

Model 🖝	KK-BC2-JP30	KK-BC2-JP45	KK-TC2-JP45	
Drive System	Auto Centrifugal Clutch Spiral Bevel Gear			
Reduction Ratio	13:19	14:19	16:19	
Drive shaft (mm)	3937	3362	3327	
Engine (Mitsubishi)	TU26	TU	43	
Engine type		2 – Stroke		
Engine Displacement	26 CC	43 cc		
Standard blades (rpm)	Nylon cutter:10000 (max)		Metal balde:255 mmx25.4 mm/10000 (max)	
Size (LxWxH)	1770x620x470	1807x620x500	1537x615x415	
Fuel Tank Capacity	600 ml	110	0 ml	
Rated blade speed (rpm)	5100	4,800	5470	
Max output (kw/rpm)	0.67 / 7500	1.27 /	6500	
Handle type		Double handle		
Weight (2 Kgs)	5.	7.6 8.1		
Fuel mixture	40ml (2T) oil per 1 Litre of Petrol			
Spark plug (mm)	0.6-0.7< gap of electrodes>			
Fuel Consumption	400 ml / hour	600 ml / hour		

NOTE: The Company reserves the right to change the specifications without prior notice.

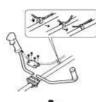
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INSTALLATION – ASSEMBLY

Installation of Handle (Double handle):

Insert the handle into the handle joint and fix it securely using 4 bolts.



Installation of cutting attachment quard:

Position the cutting attachment guard so that it contacts the edge of the gear case. Fix in place with the spacer, bracket and bolts (x2), as shown in the fiaure.

NOTE:

For your own safety, be sure to keep the cutting attachment guard attached during operation.

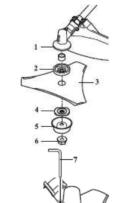
WARNING: To avoid serious injury

For safety, stop the engine and then attach or detach the blade

Installation of Blade:

Caution : To avoid serious injury

Blade is sharp, please handle carefully to prevent injury.



- Affix parts in the following order: holder ٠ A(2), blade (3), holder B (4), stabilizer (5), and blade-fastening nut (6).
- In order to lock the rotation of the spline . shaft, align holes of gear case (1), and holder A and insert bar wrench (7).





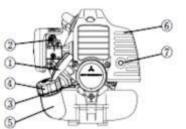
2-Stroke Petrol Engine

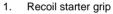
- . Check frequently the parts used in the fuel line for cracks or leakage, and replace them if necessary.
- Remove dirt, grasses or other trash from the cooling fins and the cooling air • inlet. (Make sure to stop the engine and the driven equipment before cleaning.)
- Make sure to use always new gasoline. (Old gasoline may cause sticky substance adhering at the inside of carburetor or operation trouble.)
- 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.
- Make sure to use only the genuine parts supplied from the Mitsubishi Meiki Engine. Use of parts other than the genuine parts could cause trouble to engine or premature abrasion.

NOTE

Important safety items quoted in this manual do not necessarily cover all situations or conditions that could occur. Although sufficient cares have 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.

NAME OF THE COMPONENTS





- 2. Starter lever
- 3. Cooling air inlet
- Fuel tank cap 4.
- Fuel tank 5.
- 6. Muffler
- Exhaust outlet 7. (Types vary depending on the specifications)
- 8. Engine switch
 - (Types vary depending on the specifications)
- Clutch 9. 10. Ignition plug cap
- 11. Air cleaner
- 12. Carburetor
- 13. Priming button

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2-Stroke Petrol Engine

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SAFETY PRECAUTIONS



You have to observe the descriptions indicated with this mark because they contain very important information to assure the safety.



PROHIBITED ITEMS

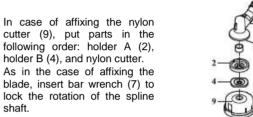
- No person who does not understand the content of this manual should be • allowed to operate the engine.
- The engine should not be operated at the indoor or a place with poor ventilation. (Exhaust gas contains odourless and harmful carbon monoxide.)
- Do not insert into or approach hands or foot to the moving or revolving sections. .
- Do not store, spill or use gasoline in the vicinity of the fire, stove, furnace or devices using the pilot flame or sparks like a water heater or others. (There is a risk of explosion.)
- Do not refill the fuel indoors or at a place not well ventilated. •
- Do not refill the fuel while smoking. .
- Do not remove the fuel tank cap or refill the fuel during engine operation or immediately after the 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 or ٠ there is a risk of explosion.
- Do not adjust the engine speed setting 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 abnormal condition has been discovered.)

- Do not operate the engine when grasses, leaves or inflammable substances are ٠ stuck in or around the muffler.
- Do not touch the parts of the muffler or engine at high temperatures. (There is a . risk of burn.)
- Do not touch the ignition plug or high-voltage cord during operation. (There is a ٠ risk of electric shock or physical injury.)
- Make sure to stop the engine whenever the work is interrupted or moving the ٠ engine to another place.
- Do not operate the engine alone. (It must be connected to the driven equipment ٠ when it is operated.)

Rotate blade-fastening nut with plug box wrench (8) in counterclockwise direction until securely tightened.

Installation of Nylon Cutter:



Rotate nylon cutter in counterclockwise direction unit securely tightened

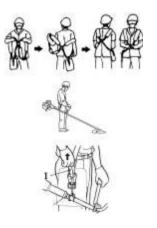
Harness-To-Shaft:

shaft.

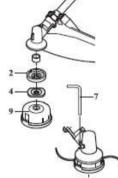
- Hold harness remembering the side of catcher
- Work your arms through the straps in the manner illustrated above (the way you wear a coat)
- Connect the buckle with the catcher positioned properly. (The buckle can be engaged by simple insertion of the tongue). Then hang the brush cutter to it and adjust the band length.
- Adjust the fit so that the blade lays almost flat on the ground.

Harness with quick release device:

Use this harness to protect yourself from the unit in case of emergency (fire in the engine, etc.) In an emergency, pull the release belt (1) strongly upward, and you can detach the machine from you. Be extremely careful to maintain control of the machine at this time. Do not allow the machine to be deflected toward you or anyone in the work vicinity.



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NOTE:

Use hook to connect and disconnect the band from the hunger of the unit. Don't work the quick release device with the exception of emergency.

OPERATING INSTRUCTIONS

(Starting & Stopping the Engine)

Preparation before starting the engine:



CAUTION: To avoid serious injury.

- Using the fuel with incorrect mixture ratio may cause insufficient output power or malfunction of the engine.
- Wipe off completely any spilled petrol (gasoline). It may soil clothes or cause a fire.

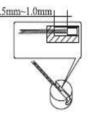
Fill the fuel tank with the correct mixture of regular automobile petrol (gasoline) and 2 Stroke engine oil.

Petrol (gasoline) : oil	
40:1	

Adjustment of the Throttle Wire:

- Adjust the play of throttle wire to 0. To 1.0 mm.
- Excessive play will cause a starting failure.





Starting the Engine:

 \Rightarrow .

(Column

- Release the throttle trigger (1).
- Set the engine switch (2) to the "I" (start) position.
- Slowly press the priming pump (3) several times until fuel comes out of the overflow tube (4). (More than 10 times)

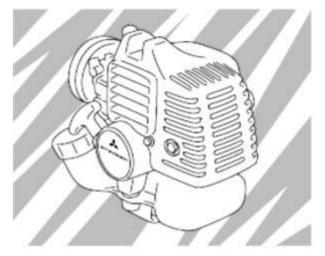
NOTE:

- Fuel that overflows by pressing the priming pump is returned by design to the fuel tank.
- Press the priming pump a sufficient number of times to start the engine as there is no possibility of flooding the engine.
- Move the choke lever (5) to the fully closed position (A mark side).



2-Stroke Petrol Engine

2-STROKE PETROL ENGINE-MANUAL



- 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 manuals at a safe place where you can consult whenever you may need it.

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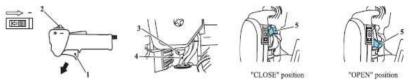


Ref No	Part Name	Ref No	Part Name
71008-318-104	Gear Case Assy	913B-0629	Bearing
51001-267-104	Gear Case	912B-6000	Bearing
64001-144	Gear Shaft/Spline Shaft	913B-6000	Bearing
78002-170	Pinion/Bevel Pinion	919B-6201	Bearing
78001-150	Gear/Bevel Gear	61002-128	Oil Seal
11001-150	Holder (A)	812V-1000	Stop Ring/C-Snap Ring
11002-126	Holder (B)	811V-2600	Stop Ring/C-Snap Ring
61001-119	Spline Sleeve	811V-3200	Stop Ring/C-Snap Ring
31001-106	Saw Locknut	322N-0810	Grease Bolt/(+)Hexagon Bolt
11027-119	Cover Metal/Stabilizer	412N-0620	Socket Screw

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• When fuel is remaining and the engine is warm, move the choke lever to the fully open position (mark side).



CAUTION: To avoid serious injury.

- Do not pull the recoil starter rope out completely. This can damage the unit.
- Do not let the recoil starter grip snap back. This can cause bodily injury or damage the unit.
- Place the unit on the ground.
- Check that the cutting tool is not touching the ground or any other obstacles.
- Hold the unit with your left hand and press it down firmly.
- Pull the recoil starter grip (6) slowly with your right hand until you feel it engage and then give it brisk strong pull.
- After starting, watch the engine condition and move the choke lever slowly to the full open position (mark side),

NOTE:

When the explosion sound is heard, but the engine does not start, move the choke lever the full open position and again pull the starter knob rapidly.



CAUTION: To avoid serious injury.

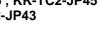
- Do not increase the engine speed immediately after starting as the lubrication oil is not yet evenly distributed to every part.
- When the throttle is in fully open position, the engine speed becomes considerably high, and that not negatively affects the engine life but it also can cause engine failure. Do not race the engine (high revving with the engine at idle), and also avoid unnecessary high-speed operation.
- Release the throttle trigger. Warm up the engine at the idling speed for a few minutes.

NOTE:

As the engine becomes warm, smooth acceleration is obtained.

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Perform cutting work by setting the throttle trigger to the required RPM.



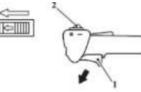
CAUTION: To avoid serious injury.

Do not stop the engine suddenly during high-speed operation as • this can cause engine damage.

Stopping the Engine:

Release the throttle trigger (1). Move the engine switch (2) to

the "0" (stop) position.



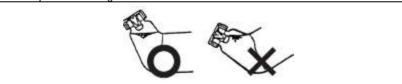
NOTE:

41

- Storing for short period: Fill the fuel tank until full and store the unit in a dry place • until it is used again in order to prevent condensation.
- Storing for long period: Drain the fuel from the fuel tank. ٠ Restart and continue operating the engine until it stops.

WARNING: To avoid serious injury.

- Be careful that the inner packing of fuel tank cap is not submerged in the fuel as shown in the figure, during the summer months when the unit is not used. If the air hole is submerged in the fuel may leak due to the increased internal pressure in the fuel tank.
- Do not touch the muffler and other parts of the engine when hot. • Doing so could result in serious burn injury. The muffler and other parts are hot during operation and for some time after stopping the engine.

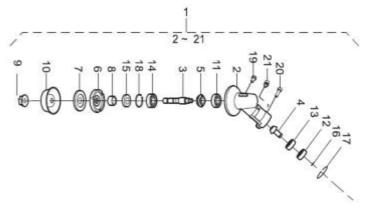




BRUSH CUTTER KK-BC2-JP30/JP45, KK-TC2-JP45 KK-SBC2-JP43

Ref No	Part Name	Ref No	Part Name
71008-307	Gear Case Assy	61001-121	Spline Sleeve
51001-258	Gear Case	11001-164	Holder (A)
78001-148	Gear/Bevel Gear	11002-142	Holder (B)
64001-157	Gear Shaft/Spline Shaft	31001-106	Saw Locknut
913B-0629	Bearing	812V-1000	Stop Ring/C-Snap Ring For Shaft
919B-6202	Bearing	811V-2600	Stop Ring/C-Snap Ring
78002-168	Pinion/Bevel Pinion	811V-3500	Stop Ring/C-Snap Ring
912B-6000	Bearing	377L-0810	Grease Bolt/(+)Binding screw
913B-6000	Bearing	412U-0620	Socket Screw
61002-107	Oil Seal	335M-0512	Flange Bolt

5. Gear Case Assy - 45 Degree



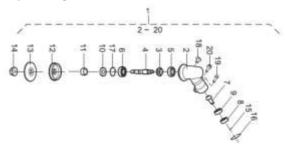


Ref No	Part Name	Ref No	Part Name
71008-307	Gear Case Assy	71012-121	Holder Assy 2/Hanger Band Assy
71130-157	Outer Pipe/Main Pipe CP	71010-214	N/A
64011-219	Drive Shaft/Main Shaft	11024-130-09	Stand-Clutch Comp
71012-130	Holder Assy 1/Hanger Band Assy	315L-0635	Hex Bolt M6x35

3. Clutch Case Assy

Ref No	Part Name	Ref No	Part Name
71010-214	Clutch Comp Assy/ Clutch Case Assy	912B-6202	Bearing 6202 ZZ
51030-167	Linker/Clutch Case	812V-1500	Stop Ring 15/C-Snap Ring
71034-152	Clutch Drum Assy	416N-0630	Socket Screw (W/SW) M6x30
11014-193	Clutch Drum CP	413N-0515	Socket Screw (W/SW) M5x15
811V-3500	Stop Ring 35/C-Snap Ring		

4. Gear Case Assy - 90 Degree

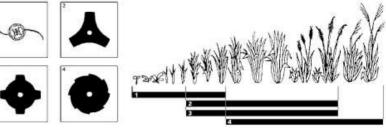




BRUSH CUTTER KK-BC2-JP30/JP45, KK-TC2-JP45 KK-SBC2-JP43

SELECTION OF ROTARY CUTTER

Select the blade best suited to your purpose as shown in the diagram below:



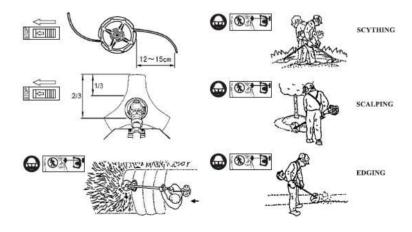
Selection of rotary cutter:

	Types of cutters	Applications
1.	Nylon cutter	For soft and low weeds
2.	3-blade cutter	For relatively low weeds
3.	4-balde cutter	For relatively low weeds
4.	8-blade cutter	For relatively hard weeds



WARNING: To avoid serious injury.

Be sure not to cut wood and twigs with the blade set, 3-toothed blade or 4toothed blade or 8-toothed blade. For the sake of safety the cutter used shall be the one designed by our company



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WARNING: To avoid serious injury.

Wear safety goggles, safety shoes, gloves and helmet during operation.

Nylon cutter: Pull on the cord of the nylon cutter by 12-15 cm.

Blade: Blades can be sharpest from the edge to one third up the shaft. When mowing grass, use two thirds.

Working methods: Since rotary blades rotates in the left direction (as seen from the top), it is more efficient to mow grass from right to left.

WARNING: To avoid serious injury.

- In case the rotary blade hits anything it should not (stone or the like), stop the engine and check that the blade has no cracks.
- Use only nylon line. Do not use any type of blade for edging or scalping. Always check that there is a safe distance between the cutting device and your feet.

If the cutting blade is clogged or stuck with grass, weeds or bushes. Immediately stop the engine and remove it, paying attention to the cutting blade. Clean the cutting blade periodically.

INSPECTION & MAINTENANCE

Inspect and maintain satisfactorily for achieving a longer life of the equipment and good safe work. Follow these procedures.

Adjust the idle sped so that it differs sufficiently from the engine speed when the clutch is engaged.

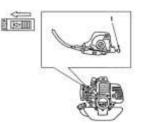
NOTE: clutch-engaged rpm/idle rpm = 1.25 or more

WARNING: To avoid serious injury.

- Hot engine parts can cause severe burns.
- Allow engine to stop and cool before checking and servicing.
- Never use damaged or faulty parts in order to prevent serious or fatal injury.
- Replace damaged or faulty parts with new parts.

Adjustment of Carburetor:

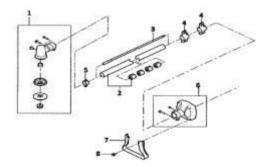
- Adjust the low RPM with the idle speed adjuster (1).
- Right turns: RPM increases
- Left turns: RPM decreases



BRUSH CUTTER KK-BC2-JP30/JP45 , KK-TC2-JP45 KK-SBC2-JP43

Ref No	Part Name	Ref No	Part Name
71011-149	N/A	464L-0410	(+)Tapping Screw
51009-142	Cap Up-Handle/Handle Joint (A)	661L-0400	Spring Lock washer
51010-145	Bracket Handle/Handle Joint (B)	68028-103	Wire band
51013-121	Cap Lower-Handle/Handle Joint (C)	71041-186	Left Handle Assy
36005-161	Rubber-Handle	36007-129	Left Handle Grip
412N-0620	Socket Screw M6x20	36063-187	Harness Assy/Shoulder Band
412N-0625	Socket Screw M6x25	36016-118	Protector
71038-162	N/A	41003-125	Tube
11029-132	Safety Guard Bracket/Band	41003-128	Tube
318L-0620	(+)Hexagon Bolt M6x20	91001-172	Throttle Cable/Wire
11113-352-09	Stay	91072-104	Grasses
36046-156-09	Safety Guard	66005-101	Spanner
71014-189	Right Handle Assy	66006-117	Box Spanner
71014-185	Right Handle/Handle Assy	66007-103	L Wrench
36007-130	Right Handle Grip	66007-104	L Wrench
71056-106	Throttle Lever Assy		

2. Gear Case & Driving Apparatus



Page 22 of 68

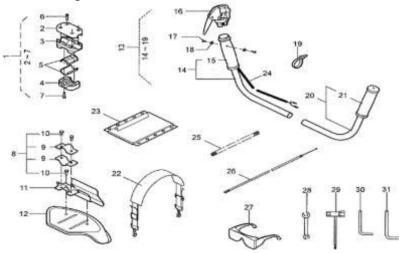
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Ref No	Part Name	Ref No	Part Name
71008-319	Gear Case Assy	913B6001	Bearing 6001
51001-266	Gear Case	919B6202	Bearing 6202 C3
64001-140	Gear Shaft/Spline Shaft	61002-107	Oil Seal (TC20357)
78002-173	Pinion/Bevel Pinion	812V1200	Stop Ring/ C. Snap Ring
78001-153	Gear / Bevel Gear	811V2800	Stop Ring/ C. Snap Ring
11001-148	Holder A	811V3500	Stop Ring/ C. Snap Ring
11002-115	Holder B	322N0810	Hexagon Bolt
61001-121	Spline Sleeve	412N0620	Socket Screw
31001-106	Saw Lock Nut	413N0515	Socket Screw (W/SW)
912B6001	Bearing 6001 ZZ		

BODY PARTS- KK-TC2-JP45

1. Handle & Fitting





BRUSH CUTTER KK-BC2-JP30/JP45, KK-TC2-JP45 KK-SBC2-JP43



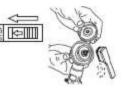
CAUTION: To avoid serious injury.

The adjustment of the carburetor is usually not necessary, since it is adjusted at the optimum position when delivered from the factory. If the fuel is adjusted extremely lean, it may cause the seizure of the engine.

DAILY MAINTENANCE

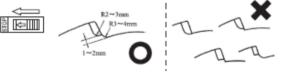
Gear case:

After the work is finished, remove holder A, and take off scraps and grass from inside it and wipe it off cleanly. Also wipe the gear case and the shaft tube. **NOTE**: The gear case is hot just after the engine is stopped. Perform maintenance when it has been cooled.



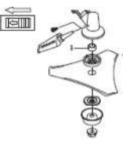
Checking for the tightness of screws:

Check the screws periodically for tightness, and if any are loose, tighten it again.



Setting of rotary blade

- Do not perform this maintenance unless you have the proper equipment and mechanical proficiency.
- Consult your authorized dealer for service.
- Root of a blade should be rounded by round file



MAINTENANCE AFTER EVERY 25 HOURS OF OPERATION

Gear case lubrication:

When supplying gear case grease, pull off spline sleeve (1) to push out old grease. **NOTE:**

For grease, use lithium type grease No. 2 or equivalent.

Page 46 of 68

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MAINTENANCE AFTER EVERY 25 HOURS OF OPERATION

Air Filter

Consult your authorized dealer for service.

- Move the choke lever to the closed position.
- Remove the air filter cover (1).
- Remove the air filter element (2) from the air filter case (3).
- Wash the element in detergent and water, and dry it thoroughly.
- Dry the air filter element before installing.
- Reinstall all parts.
- Never reinstall a damaged air filter element. Replace the element if damaged.

NOTE:

More frequent maintenance is necessary when the engine is operated in dusty conditions

WARNING: To avoid serious injury.

Never use gasoline or low flash-point solvents for cleaning the air filter element. Using such liquids could result in fire or explosion.

MAINTENANCE AFTER EVERY 100 HOURS OF OPERATION

Cleaning the fuel filter

Consult your authorized dealer for service. Pull out the filter (1) with a steel wire, etc. from the fuel filler port, and clean it well with gasoline. If the dirt is extreme, replace the fuel filter and clean the fuel tank as well

MAINTENANCE AFTER EVERY 100 HOURS OF OPERATION

Carbon Removal of Engine Internal Parts

Do not perform this maintenance unless you have the proper equipment and mechanical proficiency. Consult your authorized dealer for service.

Spark Plug

Do not perform this maintenance unless you have the proper equipment and mechanical proficiency.

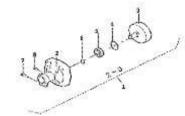
Consult your authorized engine dealer for service



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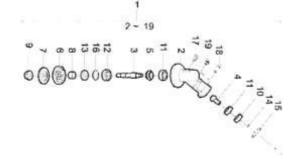
Ref No	Part Name	Ref No	Part Name
71008-319	Gear Case Assy	71010-140	N/A
71130-131	Outer Pipe/Main Pipe C.P	416N0635	Socket Screw
64011-234	Drive Shaft/Main Shaft	11024-130-09	Stand-Clutch Comp
71012-146	Holder Assy/Hanger Band Assy	11027-119	Cover Metal/Stabilizer

3. Clutch Case Assy



Ref No	Part Name	Ref No	Part Name
71010-140	Clutch Comp Assy/Case	912B6202	Bearing 6202 ZZ
51030-146	Linker/ Clutch Case	812V1500	Stop Ring/ C. Snap Ring
11014-106	Clutch Drum C.P	416N0630	Socket Screw
811V3500	Stop Ring/C. Snap Ring	413N0515	Socket Screw (W/SW)

4. Gear Case Assy



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Page 45 of 68

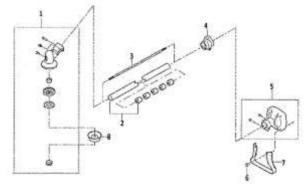


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Ref No	Part Name	Ref No	Part Name
71011-153	N/A	36007-154	Left Handle Grip
51009-143	Cap Up-Handle/Handle Joint (A)	36063-206	Harness Assy/ Shoulder Band
51010-146	Bracket-Handle/Handle Joint (B)	71038-168	N/A
51013-122	Cap Lower-Handle/Handle Joint(C)	412N0620	Socket Screw
412N0625	Socket Screw	11029-109	Safety Guard Bracket/Band
71014-460	N/A	36046-162	Safety Guard
71014-185	Right Handle/Handle Assy	66006-117	Box Spanner (17x19)
36007-130	Right Handle Grip	66007-103	L Wrench (4)
71056-301	Lever Assy/Throttle Lever Assy	66007-104	L Wrench (5)
464L0410	Tapping Screw	41003-128	Tube
661L0400	Spring Lock Washer	41003-152	Tube
68028-103	Wire Bend	91001-167	Throttle Cable /Wire
51002-126	Wire Holder	71001-124	Grass Cover Set
71014-363	Left Handle / Handle Assy		

2. Gear Case & Driving Apparatus





BRUSH CUTTER KK-BC2-JP30/JP45 , KK-TC2-JP45 KK-SBC2-JP43

- Spark plug cleaning
- Electrode Gap (A) Check / Reset: Check the electrode gap and reset it, if necessary according to the specifications.
 Never reinstall damaged spark plug. Replace with a new part



NOTE:

Always use the recommended type of spark plug An incorrect spark plug can damage the cylinder/piston



When the working season is over and the equipment need to be stored for a long time, do the following.

- 1. Clean each and every part and apply a little oil over metal parts.
- 2. Adjust loosening of clamping positions for all the parts.
- 3. Remove cutters and clean them.
- 4. Remove fuel from the fuel tank, and used up fuel in the carburetor chamber.
- 5. Pour a little oil from the hole of spark plug, pull the recoil starter and stop it when the compression is felt.
- 6. Check air cleaner, fuel strainer, etc., clean, dry and install them.
- 7. Store the equipment in a less humid place so that dust will not get accumulated on it, damaged parts should be repaired.



TROUBLESHOOTING

Problem	Probable Cause	Action to be taken
When the machine	Water may be mixed with fuel	Clean and Replace the fuel mixture
dose not start at all	Intake of fuel is may be excessive	Use 2-stroke mixed fuel in 40:1 mixture ratio
	Choke is not fully open	Choke should be fully open
When the rotating speed does not	Mixing ratio of fuel may be incorrect	Use 2-stroke mixed fuel in 40:1 mixture ratio
increase after starting	Water may be mixed with fuel	Clean and Replace the fuel mixture
	Element of the air cleaner may be stained	Clean the air cleaner and replace if necessary
When the output is insufficient even if the rotation continues	The exhaust port of the cylinder and the inlet and outlet of the muffler may be clogged with carbon.	Clean the exhaust port and inlet and outlet of the muffler
When the machine	The air vent hole of the fuel tank may be clogged with dust, etc.	Clean the air vent hole
gradually slows down and stops during an	The fuel system is not blocked by dust, etc.	Clean the fuel system
operation:	Water may be mixed with fuel	Clean and Replace the fuel mixture

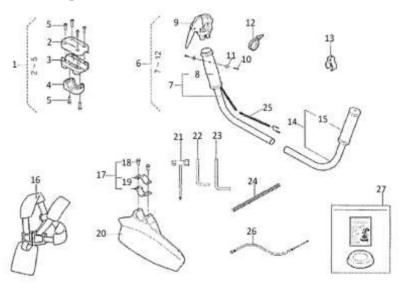
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Part No	Part Name	Part No	Part Name
E10-1	Fuel Tank Assy	E10-9	Bush
E10-2	Fuel Tank Lid/Tank Cap	E10-10	Petrol Filter/Filter Fuel
E10-3	N/A	E10-11	Valve Breather
E10-4	N/A	E10-12	Clip
E10-5	Fuel Pipe Grommet	E10-13	Engine Stand
E10-6	Fuel Pipe-Long/Hose Fuel	E10-14	Screw & Washer
E10-7	Tube Fuel (Breather)	E10-15	Screw & Washer
E10-8	Fuel Pipe-Short/Hose Fuel		

BODY PARTS- KK-BC2-JP45

1. Handle & Fitting



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9. Recoil Starter System

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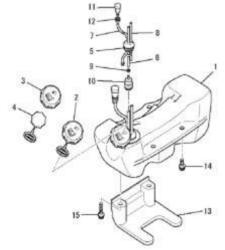
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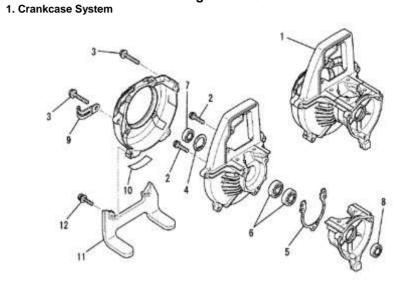
BRUSH CUTTER KK-BC2-JP30/JP45, KK-TC2-JP45 KK-SBC2-JP43

PARTS DIAGRAM & LIST (KK-BC-JP30) Engine Parts

Part No	Part Name	Part No	Part Name
E9-1	Starter Assy/Recoil Starter	E9-5	Screw & Washer
E9-2	Start Reel/Pulley Starter	E9-6	Plate
E9-3	Screw & Washer	E9-7	Label Name
E9-4	Bracket-Tank		

10. Fuel Tank System





Part No	KK Part Name	Part No	Part Name
E1-1	Crankcase Assy	E1-7	Oil Seal
E1-2	Screw & Washer	E1-8	Oil Seal
E1-3	Bolt & Washer	E1-9	Clamp
E1-4	Stop Ring/Snap Ring	E1-10	Label
E1-5	Gasket Crankcase	E1-11	Engine Stand
E1-6	Bearing 6001	E1-12	Bolt & Washer

Page 42 of 68

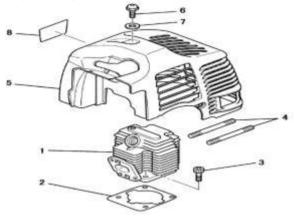
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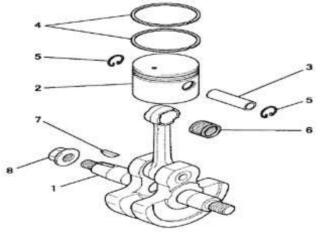
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2. Cylinder & Top Cover System



Part No	Part Name	Part No	Part Name
E2-1	Cylinder	E2-5	Guide Cover Assy/Cover Top
E2-2	Gasket Cylinder	E2-6	Screw & Washer
E2-3	Bolt SCH	E2-7	Washer
E2-4	Bolt STUD	E2-8	Label Name

3. Crankshaft & Piston System

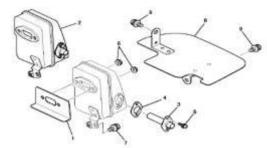


Page 28 of 68

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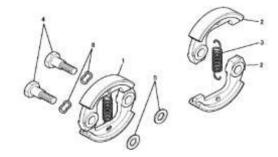
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7. Muffler System



Part No	Part Name	Part No	Part Name
E7-1	Gasket Muffler	E7-6	Nut Flange
E7-2	Muffler	E7-7	Screw & Washer
E7-3	Pipe Tail	E7-8	Gasket-Muffler(Cover)
E7-4	Gasket-Tail Pipe	E7-9	Screw & Washer
E7-5	Screw & Washer		

8. Clutch System



Part No	Part Name	Part No	Part Name
E8-1	Clutch Shoe Assy	E8-4	Clutch Bolt
E8-2	Shoe Clutch	E8-5	Washer A-Clutch
E8-3	Spring-Clutch	E8-6	Washer B-Clutch

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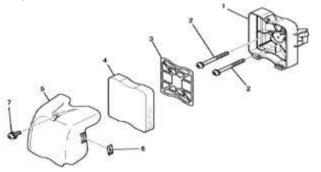
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Part No	Part Name	Part No	Part Name
E5-11	Pin	E5-28	Screw
E5-12	Lever	E5-29	Needle High Speed
E5-13	Body	E5-30	Spring
E5-14	Cover	E5-31	Washer
E5-15	Primer Pump Assy	E5-32	O Ring
E5-16	Valve Throttle	E5-33	Washer
E5-17	Holder Wire		

6. Air Cleaner System



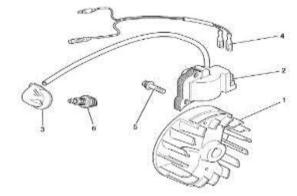
Part No	Part Name	Part No	Part Name
E6-1	Air Cleaner Inside Cover/Case Cleaner	E6-5	Air Cleaner Outside Cover/Cover Cleaner
E6-2	Screw & Washer	E6-6	Label Name
E6-3	Grid	E6-7	Screw & Washer
E6-4	Air Filter Sponge/Element Cleaner		

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Part No	Part Name	Part No	Part Name
E3-1	Crankshaft Assy	E3-5	Circlip-Piston Pin
E3-2	Piston	E3-6	Needle Bearing-Piston Pin
E3-3	Piston Pin	E3-7	Key-Crankshaft(Woodruff)
E3-4	Piston Ring	E3-8	Nut Conical SPG

4. Fly Wheel Magneto System



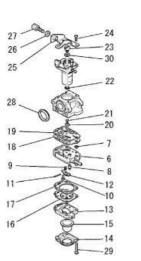
Part No	Part Name	Part No	Part Name
E4-1	Fly Wheel/ Rotor	E4-4	Cord Comp-Coil
E4-2	Ignition Coil	E4-5	Bolt & Washer
E4-3	Cap-Spark Plug	E4-6	Spark Plug

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5. Carburetor System





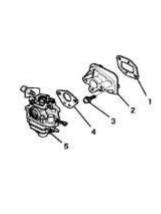
Part No	Part Name	Part No	Part Name
E5-1	Gasket-Insulator	E5-16	Diaphragm
E5-2	Insulator	E5-17	Gasket
E5-3	Screw & Washer	E5-18	Diaphragm
E5-4	Gasket-Carburetor	E5-19	Gasket
E5-5	Carburetor	E5-20	Jet Main
E5-6	Body Pump	E5-21	O Ring
E5-7	Screen	E5-22	Clip
E5-8	Valve Needle	E5-23	Wire Holder
E5-9	Spring	E5-24	Screw
E5-10	Screw	E5-25	Bracket
E5-11	Pin	E5-26	Nut
E5-12	Lever	E5-27	Screw
E5-13	Body	E5-28	Packing
E5-14	Cover	E5-29	Screw
E5-15	Primer Pump Assy	E5-30	Washer

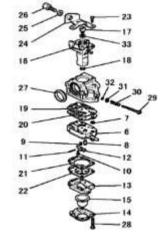
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Part No	Part Name	Part No	Part Name
E4-1	Fly Wheel/Rotor	E4-4	Cord Comp/Wire Lead
E4-2	Ignition Coil	E4-5	Bolt & Washer
E4-3	Cap-Spark Plug	E4-6	Spark Plug

5. Carburetor System





Part No	Part Name	Part No	Part Name
E5-1	Gasket-Insulator	E5-18	Clip
E5-2	Insulator	E5-19	Gasket
E5-3	Screw & Washer	E5-20	Diaphragm
E5-4	Gasket-Carburetor	E5-21	Gasket
E5-5	Carburetor	E5-22	Diaphragm
E5-6	Body Pump	E5-23	Screw
E5-7	Screen	E5-24	Bracket
E5-8	Valve Needle	E5-25	Nut
E5-9	Spring	E5-26	Screw Adjust
E5-10	Screw	E5-27	Packing

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Page 30 of 68

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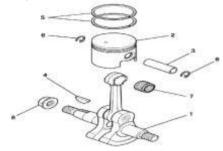
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6. Air Cleaner System

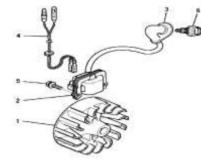
Part No	Part Name	Part No	Part Name
E2-1	Cylinder	E2-6	Screw & Washer
E2-2	Gasket Cylinder	E2-7	Screw & Washer
E2-3	Bolt SCH	E2-8	Screw & Washer
E2-4	Bolt STUD	E2-9	Washer
E2-5	Guide Cover Assy/Cover Top		

3. Crankshaft & Piston System

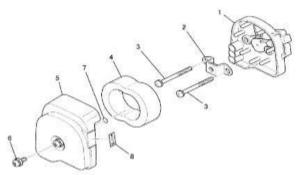


Part No	Part Name	Part No	Part Name
E3-1	Crankshaft Assy	E3-5	Piston Ring
E3-2	Piston	E3-6	Circlip-Piston Pin
E3-3	Piston Pin	E3-7	Needle Bearing- Piston Pin
E3-4	Key-Crankshaft(Woodruff)	E3-8	Nut-conical SPG

4. Fly Wheel System

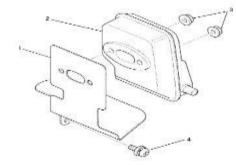


Page 38 of 68



Part No	Part Name	Part No	Part Name
E6-1	Air Cleaner Inside Cover/Case Cleaner	E6-5	Air Cleaner Outside Cover/Cover Cleaner
E6-2	Bracket	E6-6	Screw & Washer
E6-3	Screw & Washer	E6-7	O Ring
E6-4	Air Filter Sponge/Element Cleaner	E6-8	Label Name

7. Muffler System



Part No	Part Name	Part No	Part Name
E7-1	Gasket-Muffler	E7-3	Nut Flange
E7-2	Muffler	E7-4	Screw & Washer

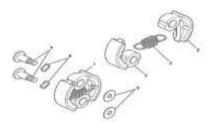
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Page 31 of 68

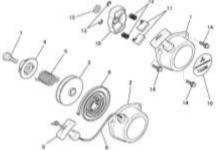
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8. Clutch System



Part No	Part Name	Part No	Part Name
E8-1	Clutch Shoe Assy	E8-4	Clutch Bolt
E8-2	Shoe Clutch	E8-5	Washer B-Clutch
E8-3	Spring-Clutch	E8-6	Washer A-Clutch

9. Recoil Starter Assy



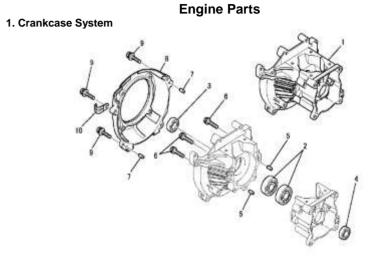
Part No	Part Name	Part No	Part Name
E9-1	Starter Assy/Recoil Starter	E9-9	Starter Handle/Knob
E9-2	Starter Cover/Case Starter	E9-10	Start Reel
E9-3	Rope Reel	E9-11	Start Claw
E9-4	Ratchet Starter/Cam	E9-12	Claw Spring/Spring Return
E9-5	Ratchet Spring	E9-13	E Ring/Snap Ring
E9-6	Recoil Spring	E9-14	Screw & Washer
E9-7	Screw	E9-15	Washer
E9-8	Starter Rope	E9-16	Label Name

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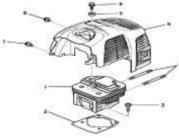
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PARTS DIAGRAM & LIST (KK-BC2 - JP45 & TC2 - JP45)



Part No	Part Name	Part No	Part Name
E1-1	Crankcase Assy	E1-6	Screw & Washer
E1-2	Bearing 6202	E1-7	Pin Dowel-Fan Cover
E1-3	Oil Seal	E1-8	Fan Cover/Fan Case
E1-4	Oil Seal	E1-9	Bolt & Washer
E1-5	Pin Dowel-Crankcase	E1-10	Clamp

2. Cylinder & Top Cover System

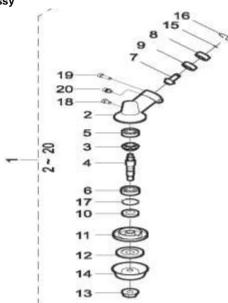


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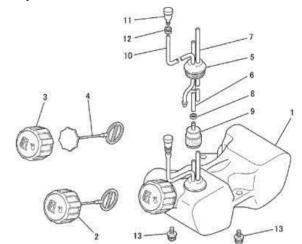


Part No	Part Name	Part No	Part Name
B4-1	Gear Case Assy	B4-11	Holder A/Cover C.P
B4-2	Gear Case	B4-12	Holder B
B4-3	Gear/Bevel Gear	B4-13	Saw Lock Nut
B4-4	Gear Shaft/Spline Shaft	B4-14	Cover-Metal/Stabilizer
B4-5	Bearing 626	B4-15	Stop Ring/C-Snap Ring
B4-6	Bearing 6001 C3	B4-16	Stop Ring/C-Snap Ring
B4-7	Pinion/Bevel Pinion	B4-17	Stop Ring/C-Snap Ring
B4-8	Bearing 609 DDC3	B4-18	Grease Bolt/Hexagon Bolt
B4-9	Bearing 609 C3	B4-19	Socket Screw
B4-10	Oil Seal (DS16284)	B4-20	Socket Screw (W/SW)



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10. Fuel Tank System



Part No	Part Name	Part No	Part Name
E10-1	Fuel Tank Assy	E10-8	Bush
E10-2	Fuel Tank Lid/Tank Cap Assy	E10-9	Petrol Filter/Filter Fuel
E10-3	N/A	E10-10	Hose Fuel
E10-4	N/A	E10-11	Valve Breather
E10-5	Fuel Pipe Grommet	E10-12	Clip
E10-6	Fuel Pipe Long/Tube Fuel	E10-13	Screw & Washer
E10-7	Fuel Pipe Short/Tube Fuel		

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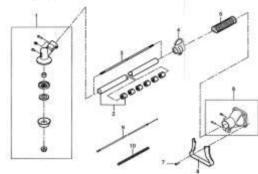
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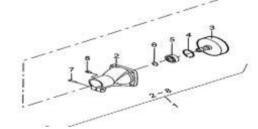
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2. Gear Case & Driving Apparatus



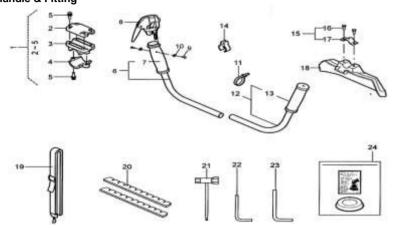
Part No	Part Name	Part No	Part Name
B2-1	Gear Case Assy	B2-6	N/A
B2-2	Outer Pipe/Main Pipe C.P	B2-7	Socket Screw
B2-3	Drive Shaft/Main Shaft	B2-8	Stand-Clutch Comp
B2-4	Holder Assy/Hanger Band Assy	B2-9	Throttle Cable/Wire
B2-5	Main Grip(R)	B2-10	Tube

3. Clutch Case Assy



Part No	Part Name	Part No	Part Name
B3-1	Clutch Comp Assy/Clutch Case Assy	B3-5	Bearing 6001 ZZ
B3-2	Linker / Clutch Case	B3-6	Stop Ring/C Snap Ring
B3-3	Clutch Drum C.P	B3-7	Socket Screw
B3-4	Stop Ring/C. Snap Ring	B3-8	Socket Screw (W/SW)

1. Handle & Fitting



BODY PARTS-KK-BC-JP30

Part No	Part Name	Part No	Part Name
B1-1	N/A	B1-13	Left Handle Grip
B1-2	Cap Up-Handle/Handle Joint A	B1-14	Wire Holder
B1-3	Bracket Handle/Handle Joint B	B1-15	N/A
B1-4	Cap Lower-Handle/Handle Joint C	B1-16	Socket Screw
B1-5	Socket Screw	B1-17	Safety Guard Bracket/Band
B1-6	Right Handle/Handle Assy	B1-18	Safety Guard
B1-7	Right Handle Grip	B1-19	Harness Assy/Shoulder Band
B1-8	Lever Assy/Throttle Lever Assy	B1-20	Blade Cover
B1-9	Tapping Screw	B1-21	Box Spanner (13x19)
B1-10	Spring Lock Washer	B1-22	L Wrench (4)
B1-11	Wire Band	B1-23	L Wrench (5)
B1-12	Left Handle/Handle Assy	B1-24	Grass Cover Set

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