



INDUSTRIAL

FICHA TÉCNICA

Producto: **Cortador de hierba y arbustos a gasolina**

DESCRIPCIÓN: Cortador de hierba y arbustos a gasolina Total Tools con una potencia de 1.5KW (2HP) y un tanque de gasolina de 1.2 L y de un peso total de 7.5 Kg. Incluye Disco de corte de 9", línea de la bobina de 4 m 2 llaves hexagonales, 2 protectores de escombros. Garantía de 3 meses.

CÓDIGO: TP445441

Accesorios Incluidos



Marca: Total Tools

Potencia: 1.5KW (2HP)

Desplazamiento: 45 cc

Velocidad sin carga: 10000/min

Tanque de gasolina: 1.2 L

Incluye: Disco de corte de 9", línea de la bobina de 4 m

2 llaves hexagonales, 2 protectores de escombros

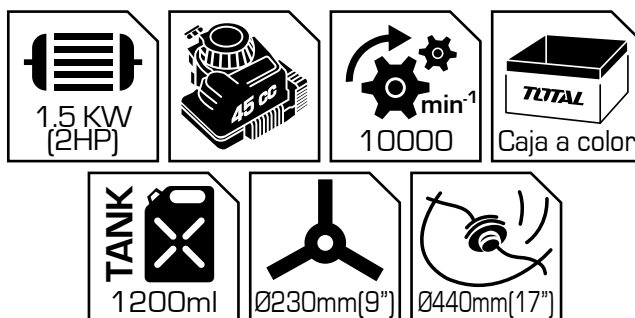
Rollo de línea: 2.5 mm x 4 m

Diámetro de corte: 440 mm

Garantía: 3 meses

Peso: 7.5 Kg.

Procedencia: Importado

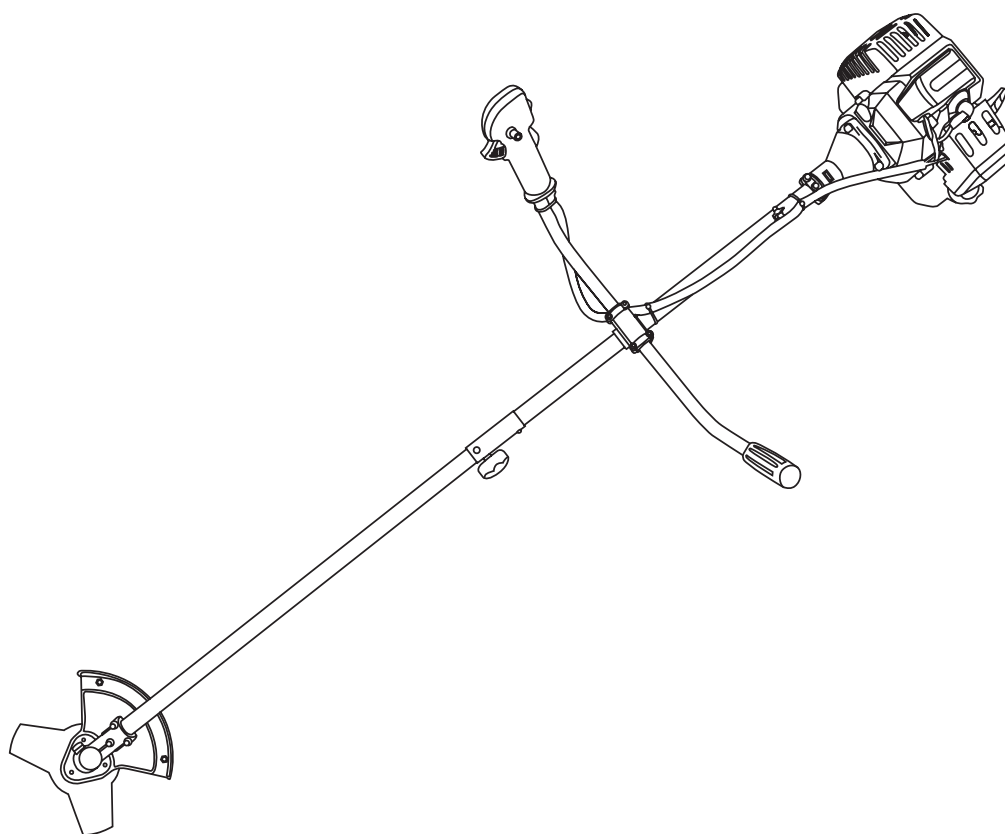


TOTAL

TOTAL

GASOLINE GRASS TRIMMER

TP445441



45cc 17"

SAFETY RULES & PRECAUTIONS

Proper safety precautions must be observed. Like all power equipment this unit must be handled carefully. **DO NOT EXPOSE YOURSELF OR OTHERS TO DANGER.** Follow these general rules. Do not permit others to use this machine unless they are thoroughly responsible and have read, and understand the machine manual and are trained in its operation.

- Always wear safety goggles for eye protection. Dress properly, do not wear loose clothing or jewelry that could become caught in moving parts of the unit. Safe, sturdy, nonskid footwear should always be worn.. Long hair should be tied back. It is recommended that legs and feet be covered to protect from flying debris during operation.
- Inspect the entire machine for loose parts (nuts, bolts, screws, etc.)and any damage. Repair or replace as necessary before using the machine.

DO NOT USE any attachment with this power head other than the ones recommended by our company. Serious injury to the operator or bystanders could result as well as damage to the machine.

- Keep the handles free from oil and fuel.

- Always use proper handles and shoulder strap when cutting.
 - Do not smoke while mixing fuel or filling tank.
 - Do not mix fuel in an enclosed room or near open flames. Assure adequate ventilation.
 - Always mix and store the fuel in a properly marked container that is approved by local codes and ordinances for such usage.
 - Never remove the fuel tank cap while the engine is running.
 - Never start or run the engine inside a closed room or building . Fumes from the exhaust contain dangerous carbon monoxide.
 - Never attempt to make engine adjustments while the unit is running and strapped to the operator. Always make engine adjustments with the unit resting on a flat, clear surface.
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- Do not use the unit if it is damaged or poorly adjusted. Never remove the machine's guard. Serious injury to the operator or bystanders could result as well as damage to the machine.
 - Inspect the area to be cut and remove all debris that could become entangled in the nylon cutting head. Also remove any objects that the unit may throw during cutting.
 - Keep children away. Onlookers should be kept at a safe distance from the work area, at least 15 METER(50 FEET)
 - Never leave the machine unattended.
 - Do not use this unit for any job other than those for which it is intended as described in this manual.
 - Do not overreach. Keep proper footing and balance at all times. Do not run the unit while standing on a ladder or on any other unstable footing location.
 - Keep hands and feet clear of the nylon cutting head or blade while unit is in use.
 - Do not use this type of machine for sweeping away debris.
 - Do not use the unit when you are tired, ill or under the influence of medication ,drugs or alcohol.
 - Use nylon cutting head which is free of damage. If a stone or any other obstacle is hit, stop the engine and check the nylon cutting head. A broken or unbalanced nylon cutting head must never be used.
- FOLLOW INSTRUCTION FOR CHANGING ACCESSORIES.**
- Do not store in a closed area where fuel vapors can reach an open flame from hot water heaters, furnaces, etc. Store in a locked, well

ventilated area only.

- Ensure safe and proper performance of your product. These part are available from your dealer. The use of any other accessories or attachments may cause a potential hazard or injury to the user, damage to the machine and void this warranty.
- Clean the machine completely, especially, the fuel tank, its surroundings, and the air cleaner.
- When refueling, be sure to stop the engine and confirm that it is cooled down.. Never refuel when the engine is running or hot. When gasoline spills, be sure to wipe it up completely dispose of those materials before starting the engine.
- Stay clear of other workers or bystanders by at least 15 meters/50 feet.
- When ever approaching an operator of the machine, carefully call his attention and confirm that the operator stop the engine. Be careful not to startle or distract the operator which can cause an unsafe situation.
- Never touch the nylon cutting head or blade when ever the engine is running. If it is necessary to replace the protector or cutting attachment, be sure to stop the engine and confirm that the cutting device has stopped running.
- The engine should be turned off when the machine is moved between work areas.
- Be careful not to hit the nylon cutting head against stones, or the ground.

Unreasonable rough operation will shorten the life of the machine as well as create an unsafe environment for yourself and those around you.

- Pay attention to loosening and overheating of parts. If there is any abnormality of the machine, stop operation immediately and check the machine carefully. If necessary, have the machine serviced by a authorized dealer. Never continue to operate a machine which may be malfunctioning.
- In start-up or during operation of the engine, never touch hot parts such as the muffler, the high voltage wire or the spark plug.
- After the engine has stopped, the muffler is still hot. Never place the machine in any places where there are flammable materials (dry grass, etc.), combustible gasses or combustible liquids.
- Pay special attention to operation in the rain or just after the rain as

the ground may be slippery.

- If you slip or fall to the ground or into a hole, release the throttle lever immediately.
- Be careful not to drop the machine or hit it against obstacles.
- Before proceeding to adjust or repair the machine, be sure to stop the engine and detach the spark plug.
- When the machine is placed in storage for a long time, drain fuel from the fuel tank and carburetor, clean the parts, move the machine to a safe place and confirm that the engine is cooled down.
- Make periodic inspections to assure safe and efficient operation. For a thorough inspection of your machine, please contact a dealer.
- Keep the machine away from fire or sparks.
- It is believed that a condition called Raynaud's phenomenon, which affects the fingers of certain individuals may be brought about by exposure to vibration and cold. loss of color and numbness in the fingers. The following precautions are strongly recommended because the minimum exposure which might trigger the ailment is unknown.

Keep your body warm, especially the head, neck, feet, ankles, hands and wrists.

Maintain good blood circulation by performing vigorous arm exercises during frequent work breaks and also by not smoking.

Limit the hours of operation. Try to fill each day with jobs where operating the brush cutter or other hand-held power equipment is not required.

If you experience discomfort, redness and swelling of the fingers followed by whitening and loss of feeling, consult your physician before further exposing yourself to cold and vibration.

- Always wear ear protection, loud noise for long time can make hearing debase even lost hearing.
- Total face and head protection must be wear to prevent damage from plummet or branch.
- Wear no-slip heavy duty work gloves to improve your grip on the brush cutter handle. Gloves also reduce the transmission of machine vibration to your hands.
- **WARNING:** The cutter area is still dangerous while the machine is coasting to a stop.

Because a trimmer/cutter is a high-speed, fast cutting power tool, special safety precaution must be observed to reduce the risk of personal injury. Read this manual carefully. Be familiar with the controls and the proper use of the unit. Know how to shut it off, and how to unhook a harnessed unit quickly.

	This graphic accompanied by the words WARNING and DANGER calls attention to an act of a condition which can lead to SERIOUS INJURY.
	READ & UNDERSTAND Operator's Manual and Safety Manual.
	ALWAYS WEAR EYE PROTECTION, EAR PROTECTION AND HEAD PROTECTION.
	WEAR FOOT PROTECTION
	WEAR GLOVES
	BEWARE OF FOOT INJURY BY CUTTING ATTACHMENT
	BEWARE OF THROWN OBJECTS HIT BY CUTTING ATTACHMENTS. NEVER USE WITHOUT PROPERLY MOUNTED BLADE GUARD.
	KEEP 15 METERS AWAY FROM ANY OTHER PERSON
	Always TURN OFF ENGINE and make sure the cutting tool has stopped before cleaning, removing or adjusting blade.
	WARNING! Never modify a trimmer or cutter in any way. Improper use of the machine can cause SERIOUS OR FATAL PERSONAL INJURY.

WARNING**DANGER**

The engine exhaust from this product contains chemicals to cause cancer, birth defects, of other reproductive harm.

Specifications, descriptions and illustrative material in this manual are as accurate as known at the time of publication, but are subject to change without notice. Illustrations may include optional equipment and accessories, and may not include all standard equipment.

-----TECHNICAL DATA-----

MODEL		TP445441
Main unit	Remote type	Centrifugal Clutch; flexible shaft
	Maximum speed of cutter head (r/min)	10000
	Idle speed(rpm)	3000
	Centrifugal speed(rpm)	3800
	Vibration values at each handle(m/s^2) (in accordance with ISO 7916)	≤ 15
	Sound pressure values[dB(A)] (in accordance with EN 27917)	≤ 102
	Guaranteed Sound power values [dB(A)] (in accordance with 2000/14/EC)	≤ 110
	Line Max. Cutting Path /Diameter of line	44 cm($\varnothing 2.5mm$)
	Rotation direction of cutting device	Anti-clockwise (seen from the top)
	Type of aluminum pole	2 pieces
	Weight when dry(kg)	7.5
Engine	Name of engine	1E40F-5A
	Type	Air-cooled; 2 cycle; vertical Piston valve; gasoline engine
	Displacement(mL)	43
	Maximum output(kW/r/min) (in accordance with ISO 8893)	1.25/6500
	Carburetor	Diaphragm-type
	Ignition	Non-contact electronic ignition
	Method of starting	Recoil type
	Fuel used	Gasoline mixed with lubricating oil (ratio of 40:1)
	Fuel tank capacity(L)	1.2

Technical Data subject to changed without notice

Accessories included:

1set line spool
1pcs debris shield, 1pcs cutting blade (230mm)
1pcs oil bottle
2pcs debris shields, 1pcs carrying bag
1pcs wrench, 2pcs hex keys

SAFETY MANUAL included with unit. Read before operating and keep for future reference to learn proper, safe operating techniques.

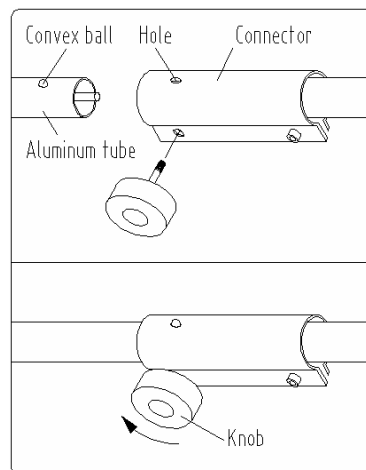
1. **BLADE** 3Z blade for grass, weed or brush cutting applications. Harness and metal shield are required for blade operation.
2. **METAL BLADE SHIELD** is always required on the machine equipped with metal blade.
3. **NYLON CUTTER HEAD** Contains replaceable nylon trimming line that advances when the trimmer head is tapped against the ground while the head is turning at normal operating speed.
4. **CUT-OFF KNIFE** Trims nylon filament to the correct length-7", head to end of line-when nylon trimming head is bumped on the ground during operation, line advance. If trimmer is operated without a cut-off knife the line becomes too long (more than 7") the engine, this will overheat or damage the engine.
5. **DEBRIS SHIELD** Mounted just above the cutting attachment. Helps protect operator by deflecting debris produced during debris produced during the trimming operation. Do not operate unit without shield.
6. **HANDLE** this handle can be adjusted at you convenience for comfort.
7. **DRIVE SHAFT ASSEMBLY** Contains a specially designed liner flexible drive shaft.
8. **IGNITION SWITCH** "slide switch" mounted on top of the Throttle Trigger Housing. Move switch FORWARD to Run, BACK TO STOP.
9. **SAFETY LEVER** Before acceleration, compress it please.
10. **THROTTLE TRIGGER** Spring loaded to return to idle when released. When accelerating, press trigger gradually for best operating technique. Do not hold trigger while starting.
11. **PURGE BULB** Pushing purge bulb (7 to 10 times before starting), will remove all air and stale fuel from fuel system and bring fresh fuel to the carburetor.
12. **FUEL TANK LID.**
13. **FUEL TANK** Contains fuel and fuel filter.
14. **AIR CLEANER COVER** Contains replaceable felt element.
15. **CHOKE** the choke control is located on the top of the filter cover.
16. **STARTER HANDLE** pull handle until engine starts, then return handle slowly. DO NOT let handle snap back or damage to starter will occur.

ASSEMBLY INSTRUCTIONS

INSTALLING THE LOWER SHAFT

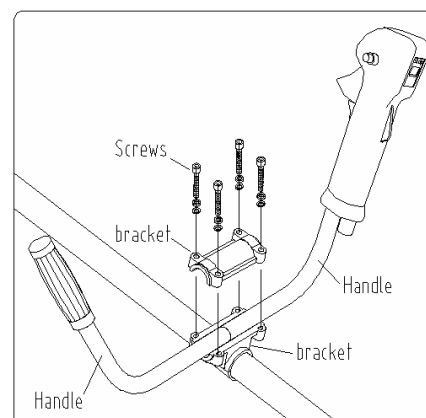
Pack the aluminum tube into the connector inside, make the convex ball aim at the hole on connector

Then turning the knob clockwise until it is tight



INSTALLING HANDLE

Install handle in bracket. Position handle in a comfortable operating position and tighten two bolts.



INSTALLING PLASTIC SHIELD

(For Nylon Line Operation)

Install the metal shield to the gear box housing, using three screws and install the plastic shield to the metal shield, using three screws

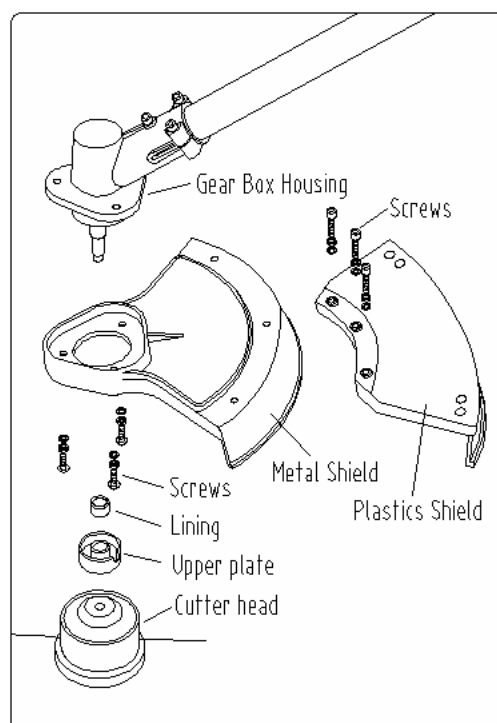
INSTALLING NYLON LINE CUTTER HEAD

Fit the lining to the gear box housing.

Align hole in adapter plate with hole in shaft and install locking tool.

Thread cutter head onto shaft (turning it counter clockwise) until it is tight.

Remove locking tool.




INSTALLING SHIELD & BLADE

Fit the metal shield to the gear box housing.

Using three screws and secure to box housing.

Fit the lining to the gear box housing.

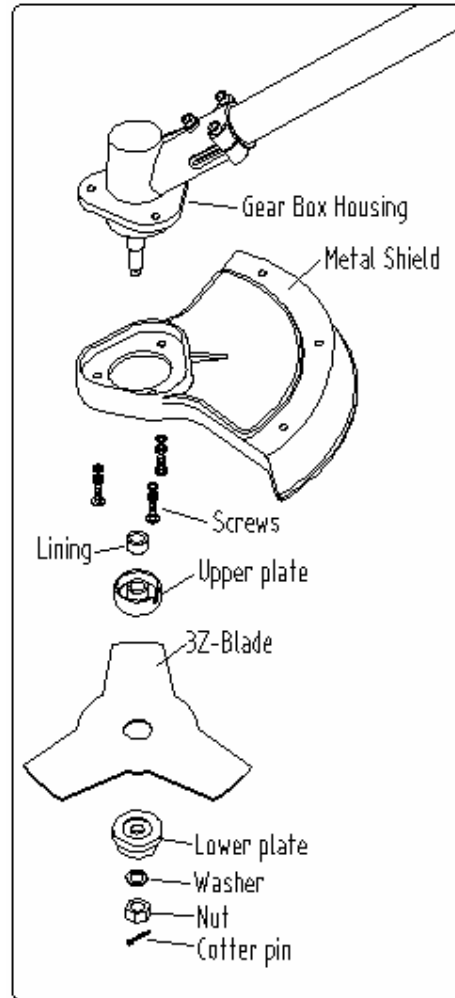
Secure metal blade between upper and lower plate with nut. Make sure that cotter pin is installed.

WARNING  **CAUTION**
METAL SHIELD ONLY TO BE
USED WITH STEEL CUTTING
BLADE

WARNING  **CAUTION**
EXCESSIVE VIBRATION.

STOP ENGINE IMMEDIATELY

Excessive vibration of blade means that it is not properly installed-stop engine immediately and check blade. Blade not properly installed will cause injury.



RULES FOR SAFE OPERATION

WARNING DANGER

All models trimmers and brush cutters can throw small stone, metal or small objects as well as the material being cut. Read these “Rules for Safe Operation” with care.

Follow the instructions in your operator’s manual.

Read the operator’s manual carefully. Be thoroughly familiar with the controls and proper use of the unit. Know how to stop the unit and shut off the engine. Know how to unhook a harnessed unit quickly.

Never allow anyone unit without proper instruction. Be sure the operator wears the foot, leg, eye, face and hearing or thrown objects. Keep the area clear of bystanders, children and pets. Never allow children to operate or play with the unit.

Do not allow anyone to enter the operating DANGER ZONE with you. The danger zone is an area 15 meters in radius (about 16 paces) or 50 feet.

Insist that persons in the RISK ZONE beyond the danger zone wear eye protection from thrown objects. If the unit must be used where there are unprotected people, operate at a low throttle speed to reduce the risk of thrown objects.

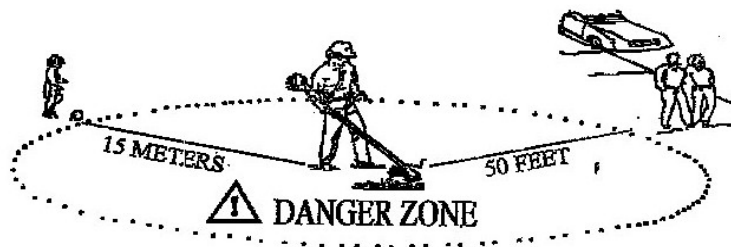
Move the stop switch to “o” position when the engine idles, insure it reliable before cutting. Only may continue to operate the unit when stop switch is in good condition.

Routines for checking that the cutting attachment stops turning when the engine idles.

WARNING DANGER

In addition to head, eye, face and ear protectors shoes to protect your feet improve your footing on slippery surfaces. Do not wear ties, jewelry, or loose, dangling clothing which could be caught in the unit.

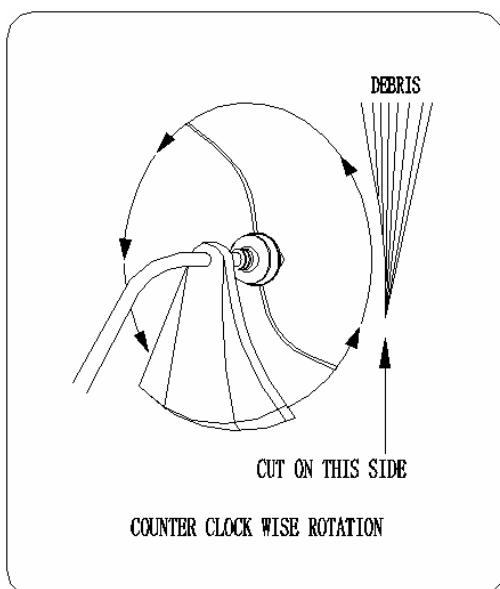
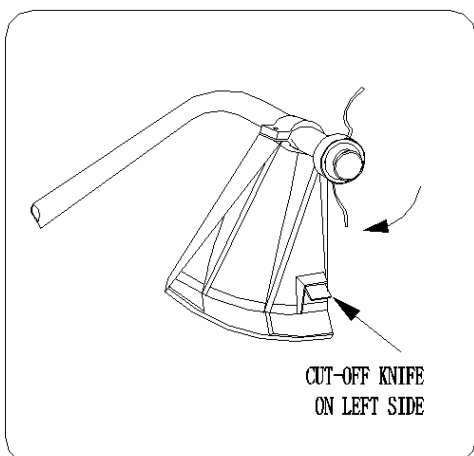
Do not wear open-toed footwear, or go bare-foot or bare legged. In certain situations you must wear total face and head protection.



DANGER ZONE

NO PERSON EXCEPT OPERATOR ALLOWED 15 METERS RADIUS DANGER ZONE. EYE, EAR, FACE, FOOT, LEG AND BODY PROTECTION MUST BE WORN BY OPERATOR. PERSONS IN ZONE OR RISK BEYOND DANGER ZONE SHOULD WEAR EYE PROTECTION AGAINST THROWN OBJECTS. RISK DIMINISHES WITH DISTANCE FROM DANGER ZONE.

CUTTING WITH A NYLON HEAD



WARNING DANGER

The proper debris shield must be in place on the unit when nylon cutting line is used. The cutting line can flap around if too much line is exposed. Always use the plastic debris shield with cut-off knife when using nylon cutting heads.

For nearly all cutting, it is good to tilt the line head

so that contact is made on the part of the line circle where the line is moving A W A Y from you and the debris shield. (See appropriate) This results in the debris being thrown A W A Y from you.

WARNING DANGER

Tilting the head to the wrong side will shoot the debris TOWARDS you. If the line head is held flat to the ground so that cutting occurs on the whole line circle, debris will be THROWN at you, drag will slow the engine down, and you will use up a lot of line.

WARNING DANGER

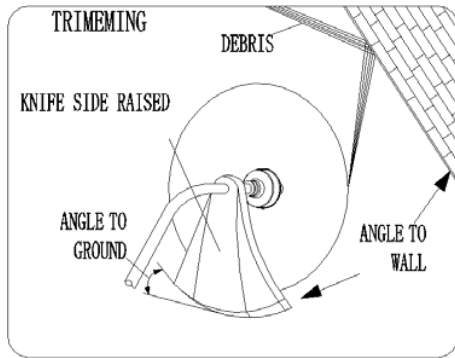
Use only quality nylon monofilament line of the diameter 2.5mm. Never use wire or wire-reinforced line in place of nylon trimmer line. Load your nylon line cutting head only with nylon trimmer line of the proper diameter.

WARNING DANGER

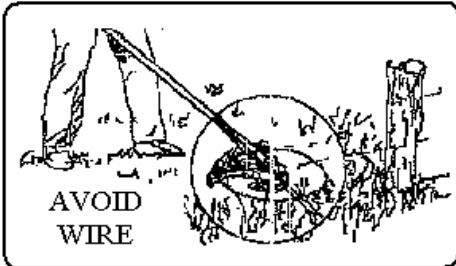
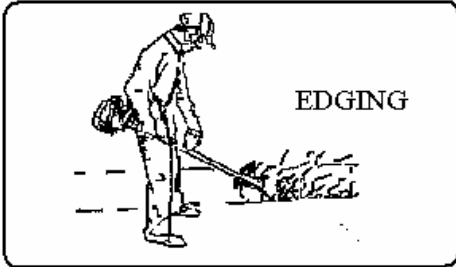
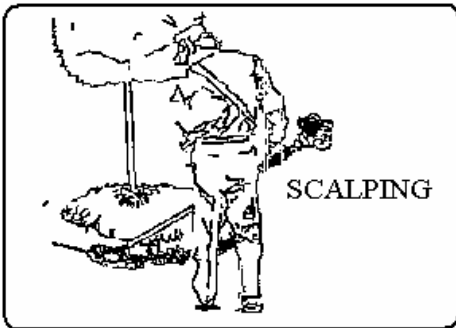
Use extreme caution when operating over bare spots and gravel, because the line can throw small rock particles at high speeds. Debris shields on the unit cannot stop objects which bounce or ricochet off hard surfaces.

CUTTING WITH A NYLON HEAD

TRIMMING:



This is feeding the trimmer carefully into the material you wish to cut. Tilt the head slowly to direct debris away from you. If cutting up to a barrier such as fence, wall or tree, approach from an angle where any debris ricocheting off the barrier will fly away from you. Move the line head slowly until the grass is cut right up the barrier, but do not jam (overfeed) the line into the barrier. If trimming up to a wire mesh or chain linked fence be careful to feed only up to wire. If you go too far the line will snap off around the wire. Trimming can be done to cut through weed stems one at a time. Place the trimmer line head near the bottom of the weed-never high up which could cause the weed to chatter and catch the line. Rather than cut the weed right through, just use the very end of the line to wear through the stem slowly.



WARNING DANGER

Do not use a steel blade for edging or scalping.

SCALPING AND EDGING:

Both of these are done with the line head tilted at a steep angle. Scalping is removing top growth leaving the earth bare.

Edging is trimming the grass back where it has spread over a sidewalk or drive way. During both edging and scalping, hold the unit at a steep angle and in a position where the debris, and any dislodging dirt and stones, will not come back towards you even if it ricochets off the hard surface. Although the picture shows how to edge and scalp every operator must find for himself the angles which suits his body size and cutting situation.

WARNING DANGER

Do not trim in any area where there are strands of fencing wire. Wear protective safety gear. Do not cut where you cannot see what the cutting device is cutting.

CUTTING WITH A BLADE

CUTTING WITH A BLADE

3-tooth metal blade and 8-tooth metal blade are provided with the machine

The metal blade is used for cutting brush and weeds up to 3/4" in diameter.

Use of saw blade with this machine is prohibited.

WARNING  **DANGER**

**DO NOT USE A BRUSH CUTTER
FOR CUTTING TREES.**

WARNING  **DANGER**

Use the shoulder harness at all times adjust both harness and harness clamp on the unit so that the unit hangs a few inches above ground level .The cutting head and the metal debris shield should be level in all directions. Harness the unit on the right side of your body.

WARNING  **DANGER**

Do not cut with dull, cracked or damaged meal blade.

Before cutting growth, inspect for obstructions such as boulders, metal stakes or strands of wire from broken fences. If an obstruction can not be removed, mark its location so that you can avoid it with the blade. Rocks and metal will dull or damage a blade. Wire can catch on the blade head and flap around or be thrown into the air.

SCYTHING WEEDS. This is cutting by swinging the blade in a level arc. It can quickly clear areas of field grass and weeds. Scything should not be used to cut large, tough weeds or woody growths.

NOTE

Do not use a brush blade to cut trees which exceed a diameter of 1/2 to 3/4 inches.

Scything can be done in both directions, or just in one way which results in the debris being thrown away from you.

That is using the side of the blade that it is rotating away from you. Tilt down the blade slightly on this same side. You will be hit by some debris if you scythe in both directions.

Cut only with the side of the blade that the debris is moving away from you.

If kickback occurs, the blade may be dull, or the material so thick and hard that you should use other tool instead of this machine.

Do not force the blade to cut. Do not change the angle of cut after into the wood. Avoid using any pressure or leverage which could cause the blade to bind or crack .

FUEL & OIL MIXTURE



- Never fill the fuel tank to the very top.
- Never add fuel to the tank in a closed non-ventilated area.
- Do not add fuel to this unit close to an open fire or sparks.
- Be sure to wipe off spilled fuel before attempting to start engine.
- Do not attempt to refuel a hot engine.

Fuel used for this model is a mixture of unleaded gasoline and approved engine lubricant. When mixing gasoline with two-cycle engine oil, use only gasoline which contains NO ETHANOL or METHANOL (Types of Alcohol) Use Branded 89 octane or higher

Unleaded gasoline known to be of good quality. This will help to avoid possible damage to engine fuel lines and other engine parts.

MIXTURE RATIO IS 40:1

GASOLINE-25PART

OIL-1 PART

Fuel mixture at the rate other than 40:1 may cause damage to the engine, Ensure mixture ratio is correct.

FUEL

The engine uses two-stroke fuel, a mixture of gasoline and 2-stroke lubricant 40:1

IMPORTANT

Two-stroke fuel may separate. Shake fuel container thoroughly before each use. Stored fuel ages. Do not mix more fuel than you expect to use within a month.

GASOLINE

Use branded 89 octane or higher unleaded gasoline known to be of good quality.

FUEL AND OIL MIXTURE

STORING FUEL

Store fuel only in a clean, safe, approved container. Check and follow local ordinances. on type and location of storage container.

Inspect fuel tank making sure that it is clean and fill with fresh fuel. Use a mixture of 40:1

PREPARING FOR OPERATIONS

WHEN MIXING GASOLINE WITH TWO CYCLE ENGINE OIL, USE ONLY GASOLINE WHICH CONTAINS NO ETHANOL OR METHANOL (TYPES OF ALCOHOL). THIS WILL HELP TO AVOID POSSIBLE DAMAGE TO ENGINE FUEL LINES AND OTHER ENGINE PARTS.

DO NOT MIX GASOLINE AND OIL DIRECTLY IN THE ENGINE FUEL TANK.

IMPORTANT: Failure to follow proper fuel mix instructions may cause damage to the engine.

1. When preparing fuel mixture, mix only the amount needed for the job you are to do. Do not use fuel that has been stored longer than two months. Fuel mixture stored longer than this will cause hard starting and poor performance. If fuel mix has been stored longer than this time. It should be removed and filled with fresh mixture.

WARNING DANGER

2. Never fill the fuel tank to the very top.
3. Never add fuel to the tank in a closed non-ventilated area.
4. Do not add fuel to this unit close to an open fire or sparks.
5. Be sure to wipe off spilled fuel before attempting to start engine
6. Do not attempt to refuel a hot engine

CHECK POINTS BEFORE OPERATION

1. Check for loose bolts. Nuts and fittings.
2. Check the air cleaner for dirt. Clean the air filter of all dirt. Etc. before operation.
3. Check to be sure that protector is securely in place.
4. Check to be sure that is not leak.
5. Check to be sure the blade is not running in idling speed.

WARNING DANGER

The engine exhaust from this product contains chemicals known to cause cancer, birth defects, or other reproductive harm.

OPERATIONS

ENGINE STARTING AND STOPPING PROCEDURES

STARTING COLD ENGINE

Move the stop switch to “START” position.

1. Give a gentle push on the primer pump repeatedly (7-10times) until fuel comes into the primer pump.
2. Cold Starts: Pull lever up to close choke.
3. Pull starter handle until engine flash. fires.
4. Push choke lever inwards (excessive cranking with choke lever will cause flooding engine making it difficult to start).
5. Pull starter handle until engine starts.
6. Allow engine to warm up for a few minutes before using.

STARTING WARM ENGINE

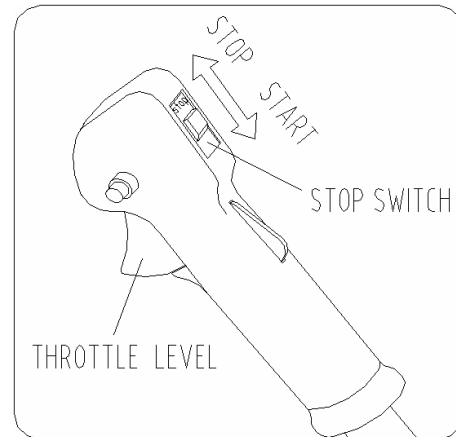
- If fuel tank was not run dry, pull starter. one to three times and should start.

DO NOT USE CHOKE

- If fuel tank was run dry, after refilling repeat steps 3 thru 7 in. STARTING COLD ENGINE.

STOPPING THE ENGINE

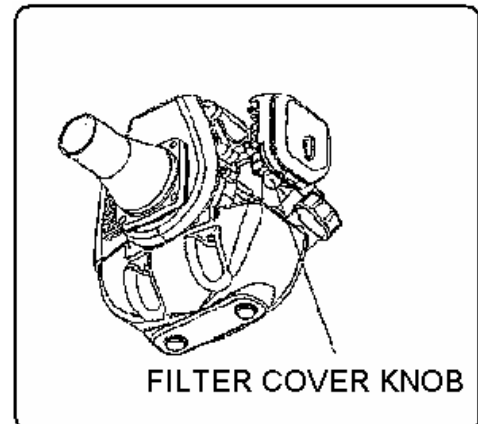
- Move switch to STOP position



MAINTENANCE & CARE

AIR FILTER

- Accumulated dust in the air filter will reduce engine efficiency. Increase fuel consumption and allow abrasive particles to pass into the engine. Remove the air filter as often as necessary to maintain in a clean condition.
- Light surface dust can readily be removed by tapping the filter. Heavy deposits should be washed out in suitable solvent.
- Remove filter cover by loosening air filter cover knob.



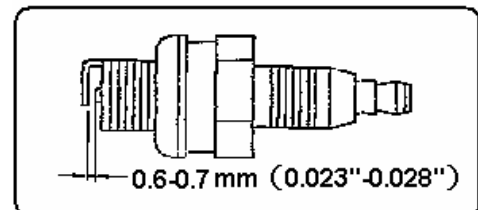
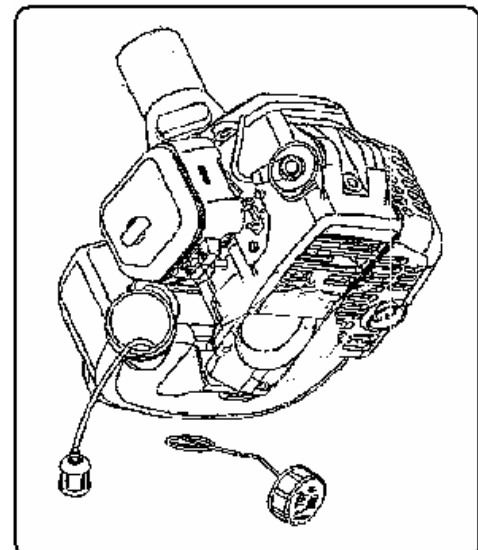
ADJUSTING CARBURETOR

NOTE

Do not adjust carburetor unless necessary. If you have trouble with the Carburetor, see your dealer. Improper adjustment may cause engine damage And void warranty.

FUEL FILTER

- Fuel tank is fitted with a filter. Filter is situated at the free end of fuel pipe and can be picked out through fuel port with a piece of hooked wire or The like.
- Check the fuel filter periodically. Do not allow dust to enter into fuel tank. Clogged filter will cause difficulty in starting engine or abnormalities in starting engine or abnormalities in engine performance.
- When filter is dirty, replace the filter.
- When the inside of the fuel tank is dirty, it can be cleaned by rinsing the tank out with gasoline.



CHECK SPARK PLUG

- Do not attempt to remove the plug from a hot engine in order to avoid possible damage to the threads.

TROUBLE SHOOTING

- Clean or replace the plug if fouled with heavy oily deposits.
- Replace the plug if the center electrode is worn rounded at the end.
- Spark gap 0.6-0.7mm (.023"-.028")
- Fastening torque = 145-155kg.cm (125-135in.lb)

WARNING: Always cover the metal blade with the transportation guard while transportation and storage.

TRANSPORT, HANDLING

- The engine should be turned off when the unit is moved between work areas.
- After the engine has stopped, the muffler is still hot. Never touch hot parts such as the muffler.
- Confirm that the fuel is not leaked from tank.

EXTENDED STORAGE

- Inspect, clean and repair unit if necessary.
- Remove all fuel from tank.
- Start engine-This will consume all fuel in fuel line and carburetor.
- Remove spark plug and pour one tea spoon of clean motor oil into spark plug hole of cylinder-replace spark plug.
- Store in clean, dry, dust free area.

FAILURES such as difficulty in starting engine, irregularity in functions and abnormality in performance can normally be prevented if careful attention is paid to all operating instructions and maintenance procedures.

Should the engine not function properly, check the following;

- That the fuel system is in good condition and fuel is flowing to the engine.
- The ignition system is in good condition and the spark plug, sparks correctly;
- Compression of the engine is adequate.

FAILURE TO START

- Dispose of fuel in tank.
- Insure that fuel is fresh and clean.
- Check fuel filter to make sure it is clean. (Replace filter if necessary).
- Make sure air filter elements are clean.
- Install new, properly gapped spark plug.
- When there is serious trouble with the unit, do not try to repair it yourself but have your distributor or dealer do it for you.

TROUBLESHOOTING GUIDE

1. FAILURE TO START

symptom				probable cause	remedy
cylinder compress pressure normal	spark plug spark normal	fuel system abnormality		these is no fuel in tank fuel filter obstruct	Add fuel in tank Clean fuel filter
		fuel system normal	fuel	fuel is too dirty there is water in fuel there is too much mixture ratio is improper	instead fuel instead fuel tear down spark plug and dry it mixture peroration
	fuel system normal	high voltage wire spark normal	spark plug	spark plug fouled with oily deposits Spark plug insulation damage Spark gap is too large or small	clean the oil deposits replace spark plug adjust spark gap 0.6-0.7mm
		high voltage spark abnormality		high voltage wire breach or break off coil looseness	replace or tighten tighten
fuel system normal	Ignition System	compress press is shortage		piston ring attrite piston ring is broken piston ring cementation spark plug looseness conjoint surface of the cylinder and crank cast leak	replace a new replace eliminate tighten eliminate
	normal	Compress normal		High voltage wire and spark Plug contact badness Stop switch failure or short circuit	tighten the spark plug cap repair or replace

TROUBLESHOOTING GUIDE

2. LOW OUTPUT

symptom	probable cause	remedy
flameout when speedup the smoke is thin, carburetor spout backward	fuel filter obstruct, fall short of fuel muffler fouled with oily deposits	clean fuel filter 、 clean fuel road、 adjust carburetor clean the oily deposits
compress press is shortage	piston、 piston ring、 cylinder attrite、	replace piston、 piston ring
engine leak	Conjoint surface of the Cylinder and crank cast leak	repair
the end of two crank shaft leak	the seal is bad	replace seal
	engine overheats burning room fouled with oily deposits	avoid use it for long time、 high speed and heavy load clean the oily deposits

3. ENGINE RUNNING UNSTABLE

symptom	probable cause	remedy
there are metal knock sound	piston、 piston ring、 cylinder attrite、 piston pin、 piston attrite bearing of crank shaft attrite	replace piston、 piston ring replace piston pin、 piston replace bearing
there are metal knock sound	engine overheats burning room fouled with oily deposits gasoline branded is unfit	avoid use it for long time、 high speed and heavy load clean the oily deposits replace require branded octane
engine ignition break off	there is water in fuel spark gap is wrong coil gap is wrong	instead fuel adjust spark gap 0.6-0.7mm adjust coil gap 0.3-0.4mm

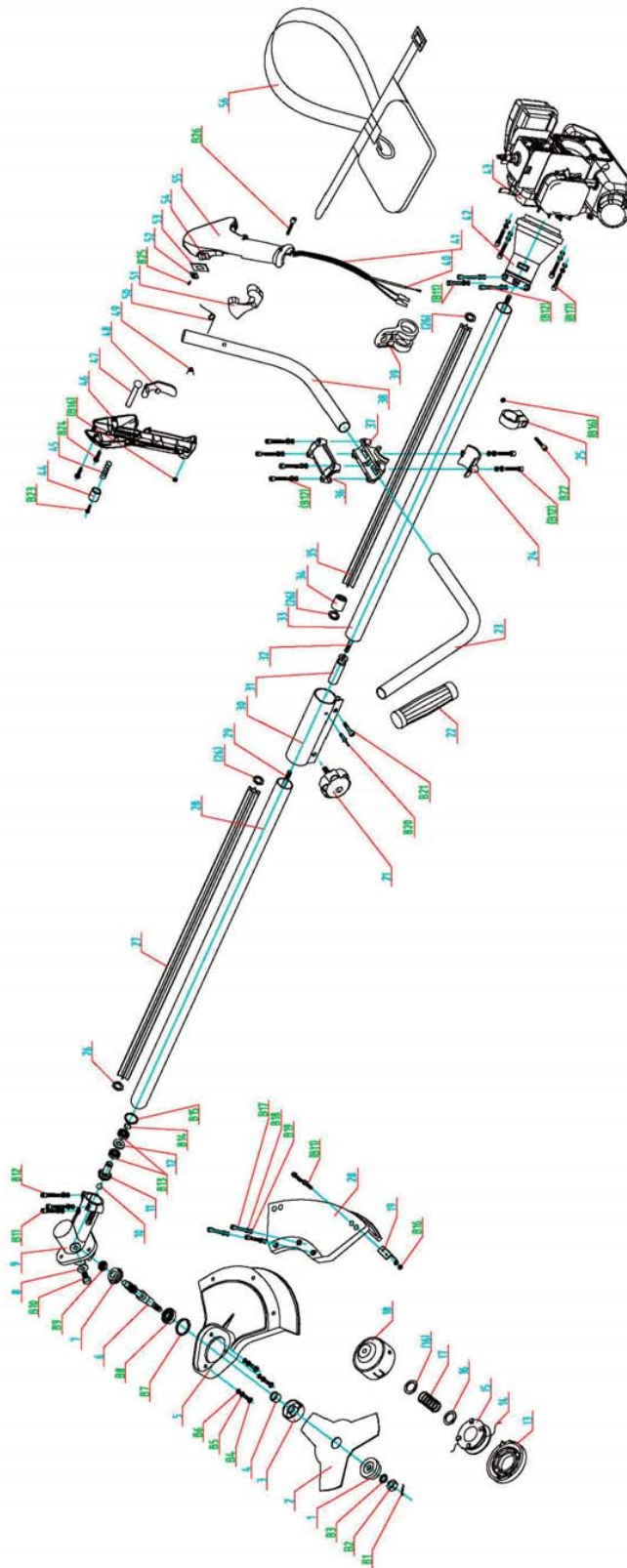
4. THE ENGINE SUDDENLY STOPPED

probable cause	remedy
fuel is use up spark plug fouled with oily deposits and short circuit high voltage wire fall off	add fuel clean the oily deposits connect

TP445441 Spare Part List

No.	Description	Qty	No.	Description	Qty
1.1	Lower plate	1	1.42	Join setsubaaembly	1
1.2	Blade	1	1.43	Engine(1E40F-5A/43CC)	1
1.3	Upper plate	1	1.44	Button	1
1.4	Bush	1	1.45	Pull-out piece spring B	1
1.5	Guard shield of blade	1	1.46	Handle A	1
1.6	Driven shaft	1	1.47	Pin	1
1.7	Driven gear	1	1.48	Insurance of the trigger	1
1.8	Airproof gasket	1	1.49	Torsion-bar spring A	1
1.9	Gear case	1	1.50	Torsion-bar spring B	1
1.10	Jam	1	1.51	Throttle line	1
1.11	Initiative gear shaft	1	1.52	Switch	1
1.12	Bearing washer	1	1.53	Aluminum scutcheon	1
1.13	Rope wheel covering	1	1.54	Switch assembly	1
1.14	Nylon rope 2.5X2100	1	1.55	Handle B	1
1.15	Rope seat	1	1.56	Shoulder strap	1
1.16	Gasket	1	1.B1	Pin 2x16 GB91-86	1
1.17	Pull-out piece spring A	1	1.B2	Screw M10X1.25 GB6171-86	2
1.18	Box of rope	1	1.B3	Washer 10 GB862.1-87	1
1.19	Knif	1	1.B4	Screw 10-24(L=12mm)	3
1.20	Plastic guard shield	1	1.B5	Spring washer 5 GB93-87	15
1.21	Knob	1	1.B6	Gasket 5 GB97.1-85	15
1.22	Pastern sheath	1	1.B7	Baffle ring 32 GB893.1-86	1
1.23	Steel tube A	1	1.B8	Bearing 6201-RZ GB/T276-94	1
1.24	Lower plate	1	1.B9	Bearing 629-RZ GB/T276-94	1
1.25	Orientating ring	1	1.B10	Bolt M8X10 GB5783-86	1
1.26	Baffle ring	4	1.B11	Screw M5X12 GB70-85	4
1.27	Plastic tube A	1	1.B12	Screw M5X25 GB70-85	10
1.28	Aluminum tube A	1	1.B13	Bearing6900-Z GB/T276-94	2
1.29	Flexible shaft A	1	1.B14	Baffle ring 10GB894.1-86	1
1.30	Connector	1	1.B15	Baffle ring 22GB894.1-86	1
1.31	Hookup set of the shaft	1	1.B16	Nut M5 GB6182-86	4
1.32	Flexible shaft B	1	1.B17	Screw M5X20 GB70-85	7
1.33	Aluminum tube B	1	1.B18	Spring washer 6 GB93-87	7
1.34	Copper bush B	1	1.B19	Gasket6GB97.1-85	7
1.35	Plastic tube B	1	1.B20	Rivet 4/7 GB12618-90	1
1.36	Upper plate	1	1.B21	Screw M6X14 GB70-85	1
1.37	Orientating block	1	1.B22	Screw M5X16 GB70-85	1
1.38	Steel tube B	1	1.B23	Screw ST2.9X15 GB846-85	1
1.39	Ring	1	1.B24	Screw ST2.9X20 GB845-85	2
1.40	Throttle line	1	1.B25	Screw ST2.9X9 GB845-85	1
1.41	Plastic tube	1	1.B26	Screw M5X30 GB70-85	1

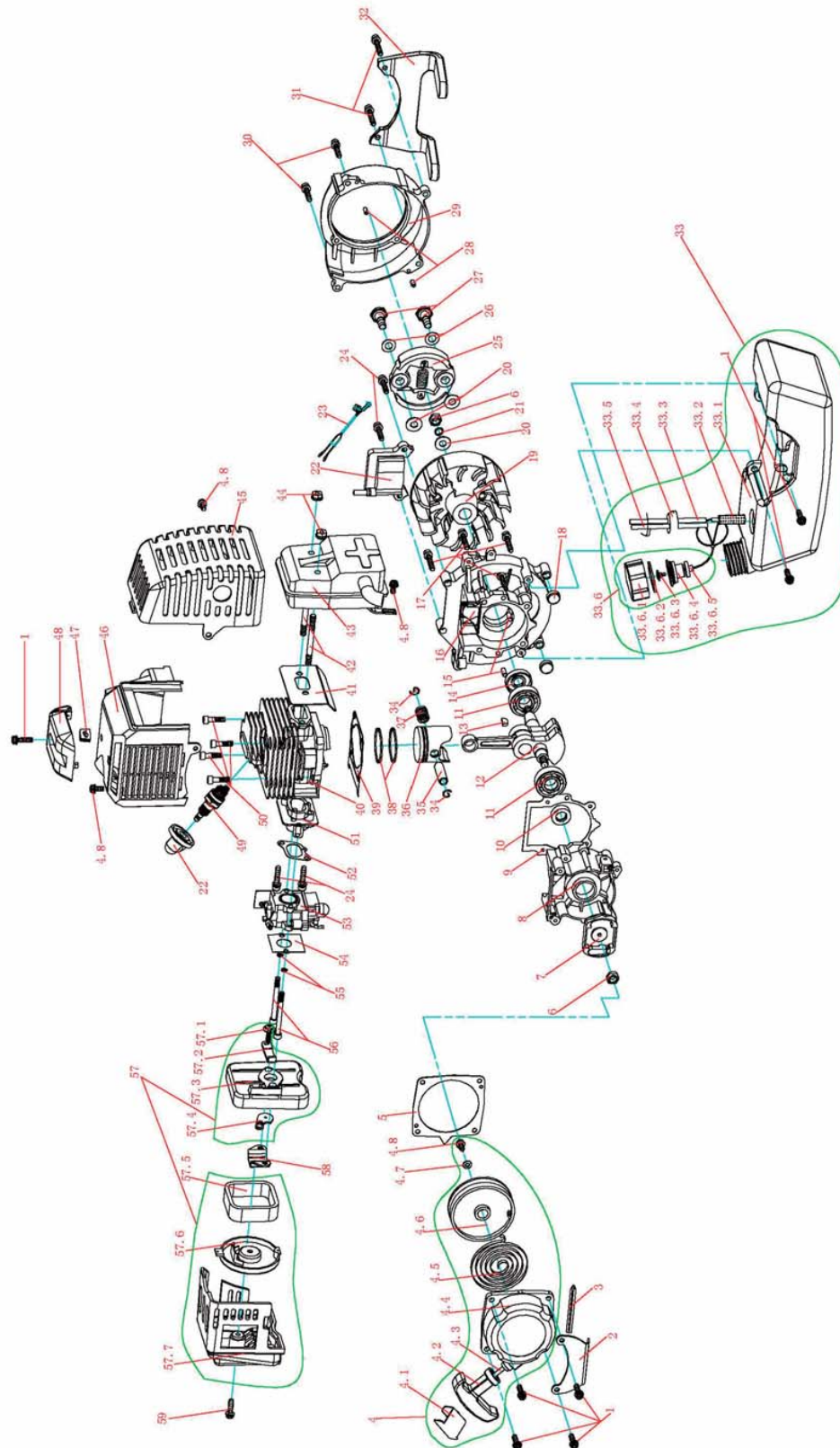
TP445441 Exploding view



TP445441 Engine Spare Part List

No.	Description	Qty	No.	Description	Qty
2.1	screw M5*20	8	2.33.3	fuel vitta	1
2.2	fuel tank rack	1	2.33.4	vitta seat	1
2.3	rubber sleeve	1	2.33.5	fuel vitta	1
2.4	starter assemble	1	2.33.6	oil box cover assemble	1
2.4.1	clasp	1	2.33.6.1	oil box cover	1
2.4.2	handle	1	2.33.6.2	oil box sheet gasket	1
2.4.3	start rope	1	2.33.6.3	oil drain valve	1
2.4.4	starter cover	1	2.33.6.4	oil drain valve seat	1
2.4.5	spring	1	2.33.6.5	oil-box-cover flying rings	1
2.4.6	start wheel	1	2.34	baffle ring	2
2.4.7	washer 5	1	2.35	piston pin	1
2.4.8	screw M5*12	4	2.36	piston	1
2.5	washer	1	2.37	bearing K10x13x15	1
2.6	nut M8	1	2.38	piston ring	2
2.7	start reel	1	2.39	cylinder gasket	1
2.8	crank case	1	2.4	cylinder	1
2.9	gasket	1	2.41	washer	1
2.1	oil seal TC22x12x7	1	2.42	bolt	2
2.11	bearing 6202	2	2.43	muffler assembly	1
2.12	crank	1	2.44	nut M6	2
2.13	key 3*13	1	2.45	muffler cover	1
2.14	oil seal TC30x12x7	1	2.46	cylinder cover	1
2.15	pin ϕ 5x12	2	2.47	rubber stopple	1
2.16	crank case	1	2.48	top cover	1
2.17	screw M5*30J	4	2.49	spark plug	1
2.18	gasket	2	2.5	screw M5*20J	4
2.19	flywheel	1	2.51	intake pipe	1
2.2	washer 8	3	2.52	intake gasket	1
2.21	spring washer 8	1	2.53	carburetor	1
2.22	ignition winding	1	2.54	washer	1
2.23	extinction	1	2.55	spring washer 5	2
2.24	screw M5*25J	4	2.56	screw M5*55J	2
2.25	clutch	1	2.57	air filter assemble	1
2.26	washer 8	2	57.1	screw ST2.9x8	1
2.27	screw pin	2	57.2	choker handle	1
2.28	pin ϕ 5x9	2	2.57.3	air filter	1
2.29	fly wheel cover	1	2.57.4	choker	1
2.3	screw M5*25	2	2.57.5	filter cover foam	1
2.31	screw M5*30	2	2.57.6	inside cover	1
2.32	fuel tank nog	1	2.57.7	outside cover	1
2.33	fuel tank assemble	1	2.58	baffler	1
2.33.1	fuel tank	1	2.59	screw M5*16	1
2.33.2	cleaner	1			

TP445441 Engine Exploding view



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