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# **YARD KING®**

## **Trimmer Assembly and Owner's Manual**



**WARNING!** Read this manual before operating your Trimmer



# IMPORTANT NOTES

## Please read the following

Thank you for purchasing your trimmer.

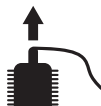
This instruction manual will aid in the assembly, safe operation and maintenance of your trimmer.

Please read the following warnings to ensure safety and the long life of your product.

### Safety Markings and Symbols



**Warning!**



**Always switch off the machine and pull off the spark plug boot**



**Read the directions for use before operating the machine.**



**Read the directions before carrying out any maintenance work.**



**Wear safety goggles, a helmet and ear protection.**



**Do not use rigid cutting disk.**



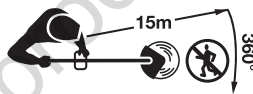
**Wear sturdy, non-slip footwear.**



**Do not use solid saw edged blades.**



**Wear safety gloves.**



**All bystanders must be kept at least 15 m from the machine.**



**Protect the machine from rain and damp.**



**Tool continues to run some seconds after switching off motor.**



**Be careful of objects being thrown out!**



**CAUTION: Hot machine parts. Keep your distance.**

- Read the instructions carefully. Ensure you are familiar with all controls & safety precautions outlined in this document before operating the machine.
- Stay alert and watch what you are doing when operating the machine. Do not operate the trimmer under the influence of alcohol, drugs or medication or when you are tired or sick.
- Operate the trimmer at reasonable hours only - not early in the morning or late at night or when people might be disturbed. Check with your local council for operation times.
- Do not operate the trimmer indoors or in confined spaces.
- While the trimmer is running, always keep hands and feet away from the trimmer head. (Keep away from any bystanders or animals when in use.)
- Use only manufacturer's genuine recommended replacement parts and accessories.



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# SAFETY & HANDLING

## Safety Instructions



**Do not operate the Trimmer before reading all Instructions & reading all Safety & Handling sections.**

### Operator Safety

- Wear the necessary safety equipment, as listed on page (6), in the Personal Safety Equipment Section.
- Always wear heavy, long pants. Do not wear loose clothing, jewellery, short pants, sandals or go barefoot. Secure hair so it is above shoulder length.
- Do not operate the unit if you are tired, ill or under the influence of alcohol, drugs or medication.

### Unit Safety

- The product is intended for garden maintenance trimming of organic ground covering such as grass and lawn. The product must not be used for or modified for uses other than is intended, unless approved by the manufacturer.
- Inspect the entire unit and cutting head before each use.
- Ensure that the guard is properly attached.
- Do not use the unit if it is running erratically. Have it serviced promptly.
- Keep handles free of oil and fuel.
- Learn how to stop the engine quickly in an emergency.
- Stop the engine when the unit is unattended. Never leave engine running while unattended.
- Never allow children or unauthorised persons to operate the unit.
- Do not leave the unit on dry cuttings when it is Hot, as a risk of fire is present. Do not cover muffler or restrict airflow to muffler..

### Fuel Safety

- Use a container approved for fuel and a funnel to avoid spillage.
- Pour fuel outdoors where there are no sparks or flames.
- Frequently check for fuel leaks.
- Do not smoke or allow smoking near fuel, or near the unit, or while using the unit.
- Add fuel before starting the unit.
- Never remove the fuel tank cap while the engine is running or hot, allow to cool before refuelling.
- Never allow the unit to run out of fuel before refuelling.
- Move at least 3 metres away from the fuelling site before starting the engine.
- Wipe all traces of fuel on the unit before starting the engine.
- Change your clothes before starting the unit if fuel has been spilt on them.



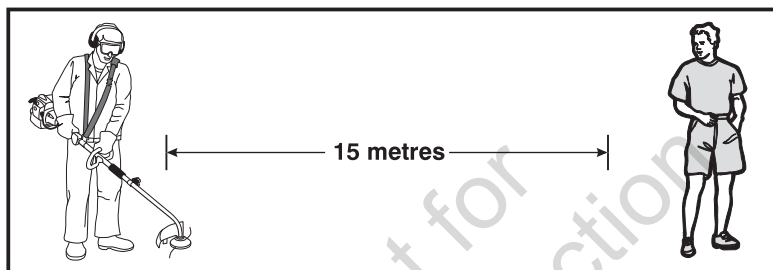
## Safety Instructions

### Starting Safety

- Start the engine with feet well away from the cutting head.
- Ensure that the area of starting and operation is clear of sticks, stones, glass, nails, wire, string and debris, which could be thrown by the cutting head.

### Cutting Safety

- Use only in good visibility and favourable weather conditions.
- Keep children, animals and bystanders outside the 15 metre hazard zone. Stop the engine immediately if approached.



- Keep the engine to the right of your body, holding the unit with both hands.
- Keep a firm footing and balance. Do not over reach.
- Keep the cutting head below waist level and do not raise the engine above your shoulder. The cutting head can come dangerously close to your body.
- Keep your body away from the cutting head and muffler when the unit is running.
- Do not strike objects that may cause harm or damage to the unit.

### Maintenance Safety

- Stop the engine and disconnect the spark plug before clearing blockages, checking or working on the unit. Clean carbon from the muffler at exhaust outlet frequently.
- Stop the engine, disconnect the spark plug and inspect the unit if it begins to vibrate abnormally or if it strikes a foreign object.
- Use only genuine trimmer line. Never use wire, rope, string, etc.
- Use only genuine replacement parts.

### Transporting and Storage

- Hand carry the unit with the engine stopped and the muffler away from your body.
- Allow the engine to cool, empty the fuel tank and secure the unit before storing or transporting in a vehicle.
- Empty the fuel tank after each use and before storing the unit.
- Store the unit and fuel well away from sparks or open flames from water heaters, electric motors, switches or furnaces, etc.
- Store the unit out of reach of children and unauthorised persons.



# SAFETY & HANDLING

## Hazards

The following safety precautions must be strictly observed to avoid the risk of damage or personal injury.



**Prior to using the unit, clear the operating area of objects which may be thrown up by the cutting head, such as rocks, glass and other debris.**



**Do not start or operate the unit inside a closed room or building. Breathing exhaust fumes can kill.**



**Be careful when operating the unit on slippery ground or overgrown terrain. Be attentive for concealed hazards, such as ditches, tree stumps and roots.**



**Maintain solid footing and balance while operating the unit. Cut only on ground level.**



**Never use the unit without the guard securely in place.**



**Do not touch the cutting head in motion. When handling blade for assembly or maintenance tasks, always wear protective gloves.**



**Bystanders must be at least 15 metres away during operation of the unit, as rocks and other materials may be thrown at high velocities. Switch the unit off immediately if approached.**



**Keep body away from hot muffler parts.**

## Personal Safety Equipment

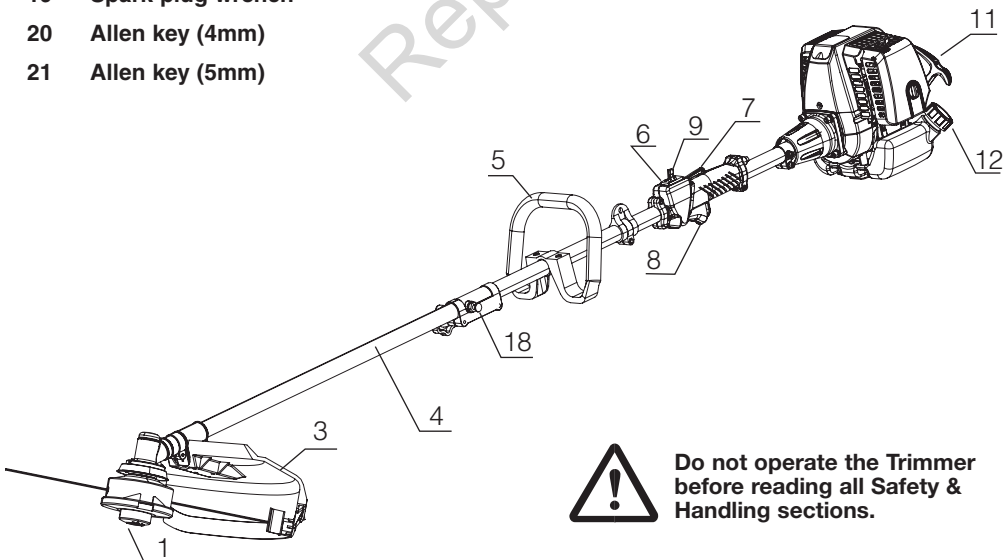
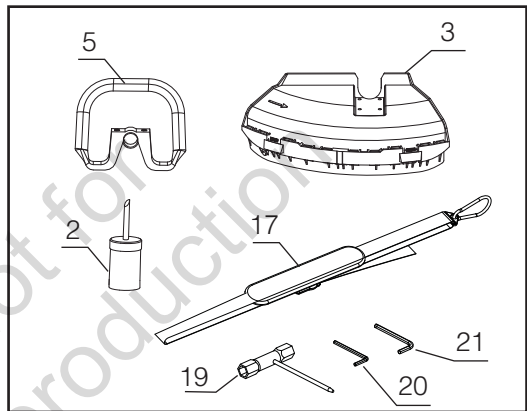
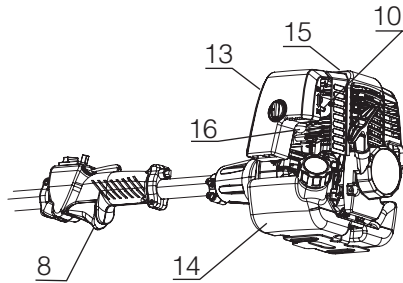
Always use the following safety equipment when working with your trimmer:

- A safety helmet fitted with a visor or suitable eye protection.
- A set of ear muffs.
- A pair of protective gloves.
- A pair of safety boots.



## Trimmer

- 1 Bumphead Assembly
- 2 Oil Fill Bottle
- 3 Shaft guard (inc 4 Screws)
- 4 Lower straight shaft
- 5 Loop handle
- 6 Engine stop switch
- 7 Throttle lever "release"
- 8 Throttle lever
- 9 Throttle lever "lock"
- 10 Choke lever
- 11 Starter cord
- 12 Fuel Cap
- 13 Air filter housing cover
- 14 Fuel Tank
- 15 Engine Shroud - Cowling
- 16 Fuel pump "primer"
- 17 Shoulder strap
- 18 Shaft split connection
- 19 Spark plug wrench
- 20 Allen key (4mm)
- 21 Allen key (5mm)



**Do not operate the Trimmer before reading all Safety & Handling sections.**



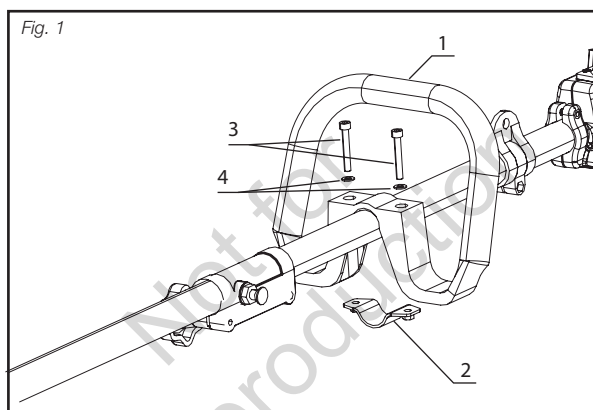
# ASSEMBLY PROCEDURES

## Handle Assembly

### Fitting the handle

1. Components - 2x Screws, 2x Washers, Loop Handle & Clamp.
2. Place Handle (1) over the shaft in the desired location.
3. Insert Clamp (2) from the bottom side of the handle.
4. Insert screws (3) and washers (4) through loop handle and into threads of the clamp.
5. Tighten screws to lock handle into position.

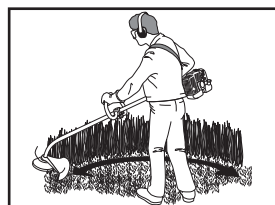
**CAUTION! Not too loose or too tight. Over tightening may damage the unit.**



## Carry Strap Harness Assembly

### Fitting the Carrying Strap Harness

- The strap is intended to help you work safely & ergonomically with the machine.
- Hook the strap into the fastening eyelet.
- Slip the strap over the shoulder.
- Set the length of the shoulder strap in such a way that the trimmer head runs parallel to the ground. In order to establish the optimum length of the strap, you should then make a few swinging movements to check operating comfort before starting the engine.



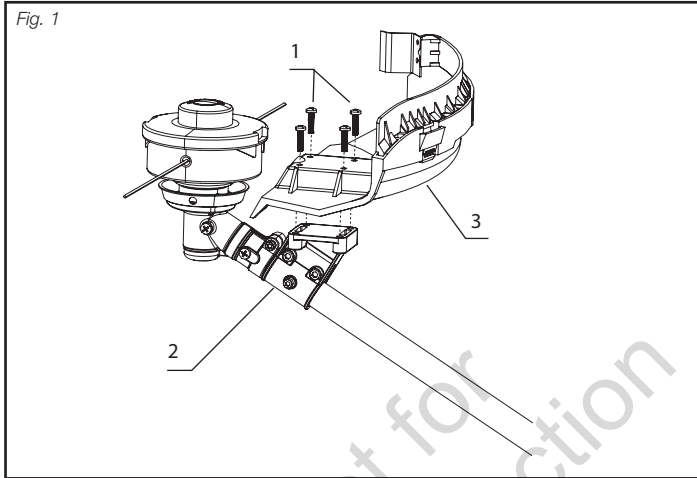




## Guard Assembly

### Fitting the straight shaft guard

1. Position the guard (3) by lining up the mounting holes on guard mount (2).
2. Secure the guard with four screws (1).



## Shaft Assembly (Split Shaft Models only)

### Assembling the split shaft

1. Loosen the star grip screw (1) on the split shaft connection. (see Fig 1)
2. Then pull pin on the shaft split connection (2) & carefully slide the lower shaft (4) into the shaft split connection (3). (see Fig 1 & 2)

**Note:** When inserting shaft into the split connection, shifting of the shaft alignment by slight rotation of the cutting head may assist with smoother engagement.

3. Ensure that the pin (2) on the shaft split connection locks into the corresponding hole (5). (see Fig 2)

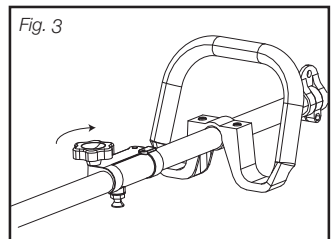
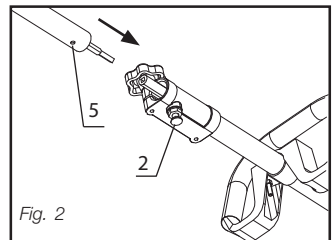
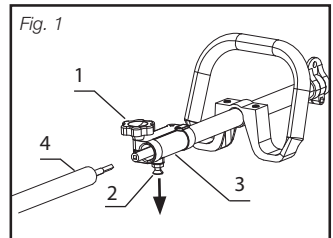


**Locking the pin (2) into the shaft hole (5) ensures full engagement of drive shafts. Failure to fully engage drive shafts will damage the connection & void product warranty.**

4. Then firmly re tighten the star grip screw (1). (see Fig 3)
5. To disassembly, reverse order of assembly.



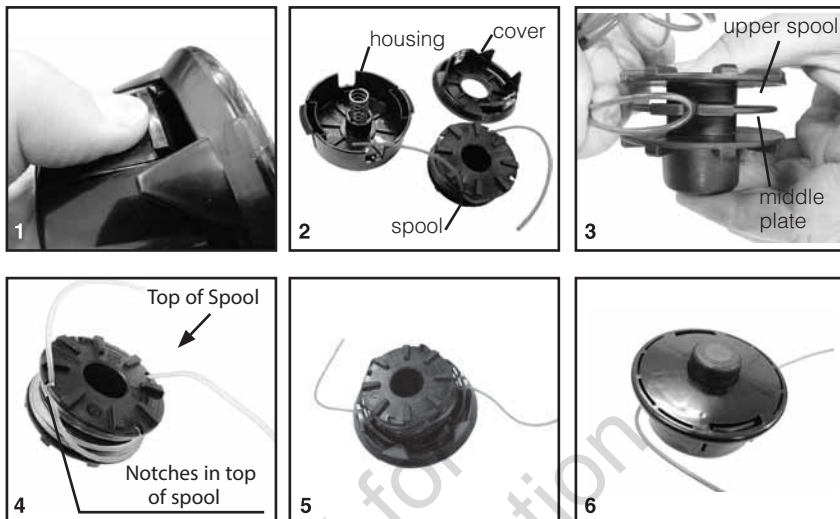
**Do not Start or Run engine without shafts & guards fully assembled. Take care when fitting & tightening. Beware of pinch points.**





# ASSEMBLYPROCEDURES

## Trimmer Line Assembly - Bump Head

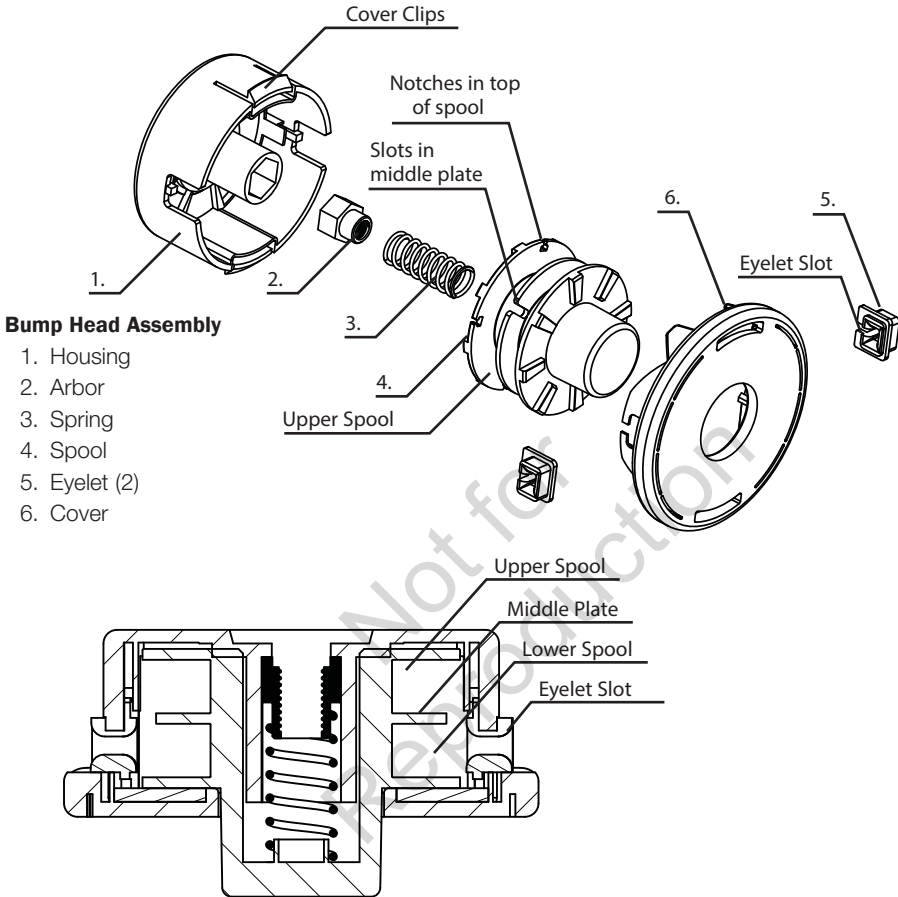


1. Press two cover clips inwards on the housing & remove the cover slowly.  
**Note: Retain the spring within the housing.**
2. Remove the remains of worn line from the spool (if any remains).  
**Note: Remaining line may be sufficient to rewind and reuse if has been tangled or has retracted back into the housing.**  
**Note: Ensure inside of housing and spool are clean and free of grass & soil before refilling.**
3. Use 6 meters of diameter 2.4mm nylon line\*. Fold the full length of line in the center and insert the centre fold into one of the slots in the spool middle plate.
4. Wind the upper half of the line tightly **CLOCKWISE** onto the upper spool.  
**Note: ' CLOCKWISE ' direction when looking at the top of the spool as shown by the arrow in Fig.4.**  
Continue winding until approximately 10cm remains at the end of the line and hold line end by locking into one of the four notches on the top of the spool.  
Repeat process with other half of the line winding in the **SAME DIRECTION** on the lower spool and hold the line end in an opposite notch.
5. Put the spool back into the cover. Remove one end of the line from the spool notch & push it into an Eyelet slot. Repeat for the other end of the line into the opposing Eyelet slot. Pull both ends of line tightly through the eyelets to remove any excess slack in spool winding.
6. Push the spool and cover back into the housing so that the housing clips align with the cover and clicks back into place.

\* 2.4mm $\varnothing$  nylon line is recommended to provides best performance. The bump head can be fitted with line diameters from 2mm to 3mm. The maximum length of the line that can fit the head varies according to the line diameter. The maximum length capacity using 2.4mm $\varnothing$  is 6 metres. Do not overfill the head spool with excessive lengths of line as it will result in ineffective spool feeding of line.



## Trimmer Line Assembly - Bump Head



Follow the Operating Instructions on page (17) to adjust the length of the line.



**Nylon line will deteriorate over time and may require replacement if line breakages and cut performance is not satisfactory**

**Do not operate the bump head with parts missing such as the spring or eyelets**



**Do not operate the bump head if the cover is not secured by the Cover Clips.**

**Do not operate the bump head if components are damaged or excessively worn.**

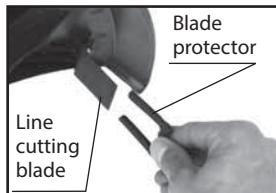


# ASSEMBLY PROCEDURES

## Cutting Head Assembly



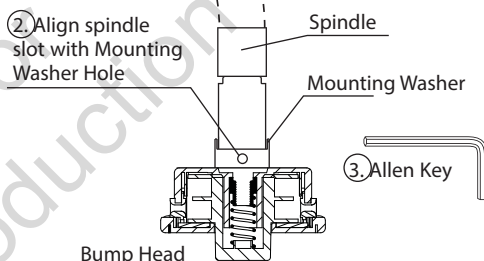
Always ensure the line cutting blade on the guard is covered with the blade protector when fitting, changing or removing the trimmer head. Always disconnect the spark plug lead before and work is done on the trimmer. Never operate the machine without a cutting head fitted. Never fit an alternative cutting head that has not been recommended by the manufacturer.



## HEAD REMOVAL & REPLACEMENT

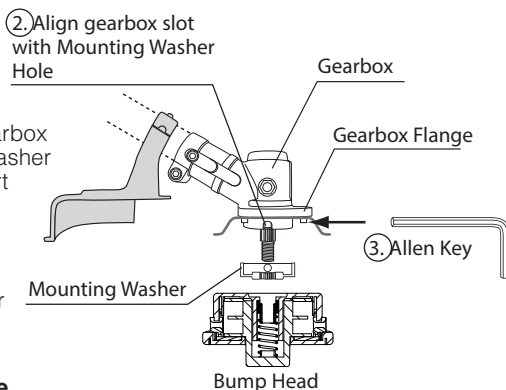
### BENT/CURVED SHAFT CUTTING HEAD

1. Replace blade protector.
2. Align hole in Mounting Washer & slot in spindle.
3. Insert Allen Key into hole & firmly support to lock shaft rotation.
4. Grip the head & rotate **anti-clockwise** to remove.
5. Refit preferred head in reverse order & firmly tighten.



### STRAIGHT SHAFT CUTTING HEAD

1. Replace blade protector.
2. Align hole in Mounting Washer and Gearbox slot.
3. Insert Allen Key through hole in Gearbox Flange, through hole in Mounting Washer and into gearbox slot. Firmly support Allen key to lock shaft rotation.
4. Grip the head & rotate **clockwise** to remove.
5. Refit preferred head in reverse order & firmly tighten.



**NOTE: Not firmly supporting alignment locking of shaft with the Allen Key may cause damage to the Gearbox or Mounting Washer.**



It is important to note the direction of rotation to tighten/remove heads & to avoid over-tightening or damage to the Gearbox, Spindle or mounting thread.



## Before Starting



Check the position & operation of controls to ensure you are comfortable before you start using the machine. Triggers, starter cord and grip position should provide smooth operation, balance and comfort before starting the machine. Check that all screws are securely fastened and also check all the safety devices.



Always use the shoulder strap when using the machine. Switch off the engine before you take off the shoulder strap.

**Check the machine for the following each time before use:**

- That there are no leaks in the fuel system
- That the cutting unit and all safety devices are in perfect condition
- That all screws are securely fastened
- That engine oil is sufficient

## Oil

### Recommended oil



**Product is supplied without oil. To avoid damage and engine failure, fill with correct oil grade and amount before use as specified below.**

Before using the product for the first time, add 70 mL of high quality SAE 10W30 oil of API classification, SF or higher.

Do not fill beyond upper indicator on oil gauge;

To add oil;

1. Place Trimmer on flat, even ground
2. Locate the oil dipstick and remove (Fig. 1)
3. Fill oil bottle (provided) with 70mL of oil
4. Use the bottle to fill engine (Fig. 2)
5. Replace dipstick

Fig. 1

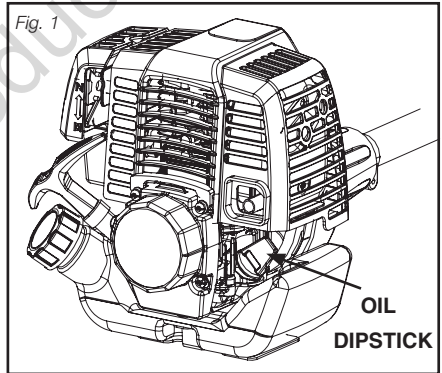
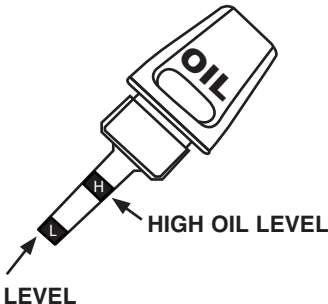
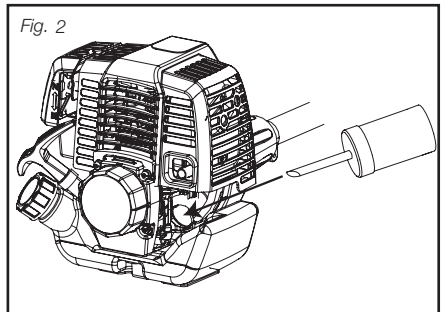


Fig. 2





# OPERATING INSTRUCTIONS

## Fuel

### Recommended fuels

- Use clean unleaded fuel only. Do not add oil to fuel.
- Start the machine at least 3 metre away from the refuelling site to avoid the possible risk of fire.
- Do not smoke whilst refuelling or working with the machine.
- Do not use the trimmer near inflammable liquids or gases. This could result in an explosion and/or fire.



**Only use containers designed and approved for the purpose to transport and store fuel.**

- Add 500ml of fuel into fuel tank and secure cap.

NOTE: Trimmer may need to be reprimed if it has run out of fuel.

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## Starting the Engine

### 1 – Get ready...

- Place the trimmer on a hard, level surface.
- Press the PRIMER 10 times.
- Set STOP switch to the “ON” position (slide it backwards towards the engine).



### 2 – Set

- Secure the throttle lever as follows:
  - Press and hold the throttle release (1)
  - Press and hold the throttle lever (2)
  - Press the throttle lock (3)
  - Now let go of the throttle release and throttle lever
- Set the choke lever to COLD



### 3 – Go!

- Pull the starter cord until you feel it resist. Then tug sharply on the starter cord 2 or 3 times.
  - ★ The engine may start or run for a short period set on cold. Choke can be set to hot while the engine is running.
  - Now, set the choke lever to the HOT position.
  - Tug sharply on the starter cord as before.
- 2 or 3 pulls to start your trimmer.



**Never allow the starter cord to snap back. This may damage the machine!**

**Repressing the throttle lever will release the throttle lock from the fixed position.**

## Starting the engine

Note: The starting procedure for every engine will vary slightly depending on your engine temperature and the ambient temperature.

The following is the recommended starting procedures if the engine is **cold** or **hot**.

- |                       |   |
|-----------------------|---|
| A cold engine can be: | <ul style="list-style-type: none"> <li>- an engine that has not been started for a period of time</li> <li>- an engine used in cold ambient temperatures</li> </ul> |
| A hot engine can be:  | <ul style="list-style-type: none"> <li>- an engine that has just stopped running</li> <li>- an engine used in hot ambient temperatures</li> </ul>                   |



# OPERATING INSTRUCTIONS

## Starting the Engine

### Cold Start

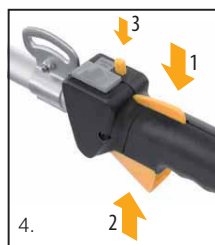
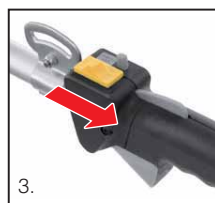
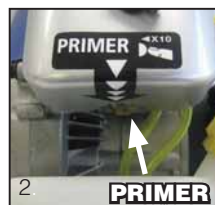
- (1) Set the machine down on a hard, level surface
  - (2) Press the fuel pump primer 10 times  
(This is found under the air filter housing - see Fig 2.)
  - (3) Ensure the 'STOP SWITCH' is set to the 'ON' position  
(slide back towards the engine) as shown in Fig 3.
  - (4) Secure the throttle lever as follows (see fig 4)
    - a. Press throttle release (1)
    - b. Press throttle lever (2)
    - c. Press throttle lock (3)
    - Let go of the throttle release & throttle lever.
  - (5) Set the choke lever to the 'COLD' position, (BLUE see fig 5)
  - (6) Pull out the starter cord until you feel it start to resist.  
Then tug sharply on the starter cord 2 or 3 times or until the engine tries to start.
- ★ The engine may start or run for a short period set on cold.  
Choke can be set to hot while the engine is running.
- Now, set the choke lever to the HOT position, (RED see fig 6)
  - If required, tug sharply on the starter cord 2 or 3 times or until the engine starts.
- ★ ★ In cold conditions, the engine may require 5-10 seconds running at idle. Slight intermittent pulling of the trigger may assist during engine warm-up.
- If the engine fails to start, repeat the process from step (3)

**Note:** Adjustment of the choke lever between "HOT" and "COLD" position may be required during engine warm-up. Engine warm-up may take several minutes until the engine is running hot and engine speed is stable.

If the engine slows down or stops, adjusting the choke lever towards the "COLD" position may be required during warm-up. Return the choke lever to the "HOT" position, before proceeding with operating the machine.

### Hot Start

- (1) Set the machine down on a hard, level surface
- (2) Ensure the 'STOP SWITCH' is set to the 'ON' position  
(slide back towards the engine) as shown in Fig.3.
- (3) Secure the throttle lever as follows (see fig 4)
  - a. Press throttle release (1)
  - b. Press throttle lever (2)
  - c. Press throttle lock (3)
  - Let go of the throttle release & throttle lever.
- (4) Set the choke lever to the HOT position, (RED see fig 6)
- (5) Pull out the starter cord until you feel it start to resist.  
Then tug sharply on the starter cord 2 or 3 times or until the engine starts.
- If the engine fails to start, retry the "COLD" start Procedure or refer to the trouble-shooting section.







## Starting the Engine



**The throttle lever - throttle lock holds the engine above idle to assist with starting & may drive the cutting head then the engine is started.**

To release the throttle lock, simply pressing the throttle lever & the engine will return to running in idle mode.



**If the engine does not start up after several attempts, read the section on trouble shooting.**



**Always pull the starter out in a straight line.**

**IF THIS IS NOT FOLLOWED, STARTER CORD WILL BE FRAYED AND CORD WILL BREAK!**

**This is not covered by the product Warranty.**

## Switching Off the Engine

### Emergency Stop procedure

- If it becomes necessary to stop the machine immediately. Let go of the throttle lever and move the stop switch to 'OFF'.
- Note the switch will need to be returned to the 'ON' position prior to restarting.



## Feeding Bump Head Line

To increase the length of nylon trimming line when using the Bump Head;

1. Run the trimmer at maximum RPM while firmly bumping the spool on the ground.
2. The line will come out incrementally each time head is bumped.
3. Check the length after each bumping and repeat till the required length is achieved.
4. Bump and feed the line before it becomes too short and fall back into the bump head.

If this happens refer to the section of "Trimmer Line Assembly – bump head" on page 12.

Note: refer to "Troubleshooting - Bump head" if the line is not coming out when bumping.

**Warning : DO NOT touch the bump head while the engine is running.**

**DO NOT Bump feed excessive lengths on line longer than the limits of the guards.**



# OPERATING INSTRUCTIONS

## Trimming Procedures

### Practical tips

- Practice all operating techniques with the engine switched off before you start to use the machine.
- Remove Weed/Grass wrapped around Head/Shaft.



**DO NOT use steel wire or plastic-coated steel wire of any kind with your string head. Serious operator injury can result.**



**Periodically remove weed wrap to prevent overheating the drive shaft. Weed wrap occurs when strands of weed become entangled around the shaft beneath the debris shield. This condition prevents the shaft from being properly cooled.**

- When properly equipped with a guard and cutting head, your unit will trim unsightly weeds and tall grass in those hard-to-reach areas – along fences, walls, foundations and around trees. It can also be used for scalping to remove vegetation down to the ground for easier preparation of a garden or to clean out a particular area.



**Trimming around foundations, brick or stone walls, curves, etc. will result in above normal string wear.**

### Trimming / Mowing

- Swing trimmer with a sickle-like motion from side to side. Do not tilt the cutting head during the procedure. Test area to be trimmed for proper cutting height. Keep string head at same level for even depth of cut.



### Fence / Foundation Trimming

- Approach trimming around chain link fences, picket fences, rock walls and foundations slowly to cut close without whipping string against the barrier. If the string comes in contact with rock, brick walls, or foundations, it will break or fray. If string snags fencing, it will snap off.

### Trimming Around Trees

- Trim around tree trunks with a slow approach so string does not contact bark. Walk around the tree trimming from left to right. Approach grass or weeds with the tip of the string and tilt cutting head slightly forward.



### Scalping

- Scalping refers to removal of all vegetation down to the ground. To do this, tilt the cutting head to about 30 degree angle to the left. By adjusting the handle you will have better control during this operation. Do not attempt this procedure if there is any chance flying debris could injure operator, other people or cause damage to property.



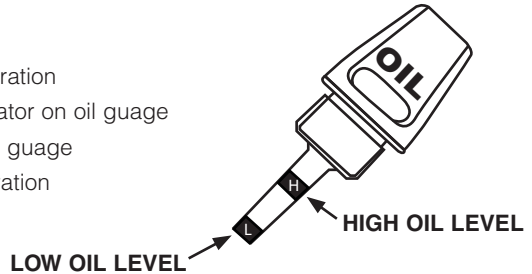
**Use extreme caution when SCALPING. Keep a distance of 100 feet (30 metres) between operator, other people and animals during these operations.**



## Maintenance - Oil

### Maintenance of oil

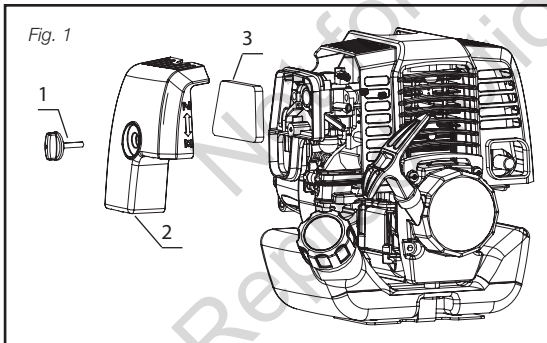
- Check oil level before every use
- Replace oil after the first 4 hours of operation
- Refill oil when level reaches lower indicator on oil guage
- Do not fill beyond upper indicator on oil guage
- Replace oil after every 20 hours of operation
- Replace oil if it is dirty or contaminated



## Maintenance - Air Filter

### Maintenance of the air filter

Always switch off the machine and pull out of spark plug H.T. lead before carrying out any maintenance work.



**NOTE: Dirty air filters reduce the engine output by supply too little air to the carburettor.**

Regular checks of the air filter is essential. The air filter should be checked monthly and cleaned if necessary. The air filter should be checked more frequently when used in dry and dusty environments.

1. Remove the air filter cover (2) by removing the air filter knob (1)
2. Remove the filter element (3)
3. Clean the filter element by washing in soapy water and allowing it to dry completely.
4. Soak in oil and squeeze off excess.
5. Assemble in reverse order.



**Never clean the air filter with petrol or inflammable solvents.**



**Make sure Air Filter is fitted correctly, (warranty will be void if engine is damaged due to incorrect fitment)**

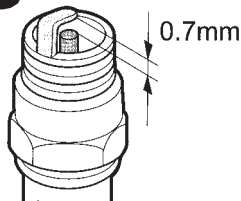


# MAINTENANCE & CARE

## Maintenance - Spark Plug

**TORCH #**

**CMR6A**



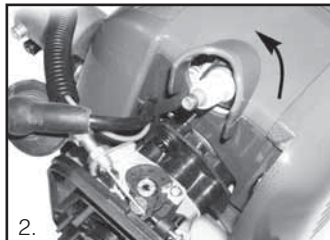
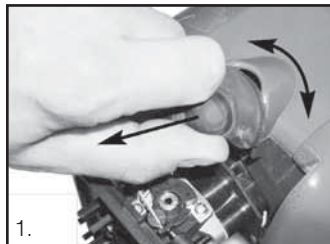
Spark plug gap = 0.025 inch (0.7 mm).

Tighten the spark plug with a torque of 12-15 Nm.

Check the spark plug for dirt and grime after 10 hours of operation and if necessary clean.

Thereafter service the spark plug after every 50 hours of operation.

1. Pull off the spark plug boot by twisting side to side gently. (Fig 1)
2. Remove the spark plug with a spark plug tube spanner. (Fig 2)
3. Assemble in reverse order.



## Storage



**If you fail to follow these instructions correctly before storing the machine, deposits may form on the interior of the carburettor & may result in the engine being more difficult to start or the machine suffering permanent damage.**

### Storage Preparation

1. Carry out all the maintenance work require prior to storing.
2. Drain the fuel out of the tank.
3. When the fuel has been drained, start the engine.
4. Allow the engine to run at idling speed until it stops. This will clean the remainder of the fuel out of the carburettor.
5. Leave the machine to cool (approx. 5 minutes).
6. Clean the exterior housing of the machine.
7. Store the machine in a cold, dry place where it is out of the reach of ignition sources & inflammable substances.
8. Always store engine upright or with trimmer shaft hanging in the downward position. Do not store upside down or on the engines sides.

Fertilizers and other chemical garden products often contain substances that accelerate the rate of corrosion of metals. Do not store the machine on or near fertilizers or other chemicals.

### Before restarting

Recheck engine oil is sufficient.

### Transport

To transport the machine, first empty the petrol tank. Pump the primer to completely remove fuel from the carburettor & empty excess from the tank.

Clean coarse dirt off the machine with a brush.

Dismantle the split shaft as described (pg.9) if preferred.

Transport Trimmer with engine in upright position. Do not transport with engine upside down or on its side.



## Maintenance Chart

Refer to the following table for routine maintenance.

Features	Requirements	Before	After finish	Refuelling	Monthly	Yearly	If damaged	As required
Trimmer	Visual inspection (leaks)	●		●				
Throttle lever	Check operation	●						
Throttle trigger interlock	Check	●						
Stop switch	Check	●						
Fuel tank	Clean		●					
Cutting Head Assy	Check & clean		●					●
Gearbox	Grease (straight shaft)					●		●
Air filter	Check				●			
	Clean				●			●
	Replace (Depending on conditions)						●	●
Cowling	Clean		●					
Cylinder fins	Clean							●
Spark plug	Clean & readjust gap					●		●
Nylon Line	Stock replacement					●		●
Bump Head	Inspect	●	●					●
Engine Oil	Check and fill	●						
	Replacement							●
All accessible fasteners	Retighten	●						●
Muffler	Inspect	●			●			
	Inspect spark arresting screen					●		●
	Clean or replace						●	●



**Always stop the engine before any maintenance is done on the unit. When all parts have stopped rotating, remove the spark plug lead to begin maintenance work.**



**Never repair cutting attachments by welding, straightening or custom reworking of parts. This may result in product failure or serious injury.**



**Never attempt maintenance that is not outlined in this manual. All repair work must be carried out by a Authorised Service Centre.**



Unit problems may be solved by reference to the chart below.

Problem	Possible cause	Remedy
<b>Engine won't start</b>	Electrode is wet or fouled	Dry spark plug or replace
	Carbon deposit on electrode	Clean spark plug
Spark plug (no spark)	Cracked insulator	Replace spark plug
	STOP SWITCH in OFF position	Switch to ON
	Too small or large electrode gap	Adjust gap to 0.7mm (0.025")
	Burned electrode	Replace spark plug
Ignition system (no spark)	Coil burned out, coil insulation failure	Contact Service Centre
	Break in coil wire, transistor burned out	Contact Service Centre
Engine won't start - Good compression, sufficient fuel (with spark)	Engine flooded	Crank engine choke off to discharge fuel
		Wide throttle position
	Excessively thick fuel	Contact Service Centre
	Use of incorrect fuel	Drain and replace with correct fuel
Poor compression, sufficient fuel (with spark)	Excessive wear on cylinder, piston, rings	Contact Service Centre
	Loose spark plug	Tighten spark plug
	Valves not sealing	Contact Service Centre
No fuel in carburettor (with spark)	No fuel in tank	Refuel
	Loose fuel line fitting	Contact Service Centre
		Contact Service Centre
	Clogged fuel line	Contact Service Centre
	Plugged air vent in fuel tank	Clean vent/Contact Service Centre
<b>Insufficient power</b>	Clogged air filter	Clean
	Valve lash out of spec	Contact Service Centre
Blockages	Carbon build up in muffler	Contact Service Centre
	Fuel line/passage clogged	Contact Service Centre
	Piston seizure, diaphragm inoperative	Contact Service Centre
	Water in fuel	Contact Service Centre
Overheating	Excessively lean fuel mixture	Contact Service Centre
	Carbon deposits on piston	Contact Service Centre
	Machine is overworked	Operate properly – do not overload
	Fan cover, cylinder fins, etc. dirty	Clean and remove dirt and debris
Engine makes knocking noise	Cylinder overheating	Clean fins
	Use of incorrect fuel	Replace with correct fuel



## Troubleshooting

Problem	Possible cause	Remedy
<b>Poor acceleration</b>	Fuel filter clogged	Contact Service Centre
Fuel system clogged	Excessively low idle	Speed up idle/Contact Service Centre
	Excessively lean carburettor setting	Contact Service Centre
	Clogged air filter	Clean filter
	Valve lash out of spec	Contact Service Centre
Air leakage	Loose carburettor	Contact Service Centre
	Loose fuel pick up tube	Insert firmly/Contact Service Centre
<b>Engine stops during operation</b>	Switch is bumped	Keep hands clear of switch
Engine stops abruptly	Shorting of spark plug	Clean spark plug
	Piston scored, ignition failure	Contact Service Centre
Miscellaneous	Fuel tank empty	Refuel
	Carburettor or fuel tank clogged	Contact Service Centre
<b>Engine is difficult to shut off</b>	Overheated engine	Run at idle
Overheating or electrical fault	Overheated spark plug	Clean and adjust gap to 0.7mm (0.25")
	Defective kill switch	Contact Service Centre
	Poor contact of ground wire	Contact Service Centre
<b>Unit main body</b>	Loose trimmer head	Tighten firmly
Irregular vibration or trimmer head spins with engine idling	Broken clutch spring, bent main shaft	Contact Service Centre
	Worn shaft bearings	Contact Service Centre
	Loose gear head	Tighten bolt securely/Contact Service Centre
Oil Leaking	Oil build up in air filter	Clean air filter
<b>Bump head:</b>	Inappropriate winding of line.	Open bump head and rewind the line ("Fitting trimmer line - bump head" on page 16)
Line doesn't come out when head is bumped	Line inside bump head is nearly finished.	Replace the residual line with the new line ("Fitting trimmer line - bump head" on page 16)

If running difficulties continue, please contact your closest Authorised Service Centre on: 1800 356 632 or refer to the Lawnmower section of your local yellow pages. New Zealand Customers Phone (09) 912 0747.

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