# Lawnmower Operation & Assembly Instructions



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NOTE - WARRANTY DETAILS ARE NOT WRITTEN WITHIN THIS OPERATOR'S MANUAL. REFER TO THE WARRANTY LEAFLET SUPPLIED WITH THE MACHINE FOR PRODUCT WARRANTY DETAILS.

THE WARRANTY DOCUMENTS MAY INCLUDE TECHNICAL SPECIFICATIONS THAT ARE SPECIFIC TO EACH MODEL THAT ARE NOT WRITTEN WITHIN THIS OPERATOR'S MANUAL.

Congratulations on your purchase of a lawnmower. This instruction manual will aid in the assembly, operation and maintenance of your new lawnmower.

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



# Do not operate the unit before reading this manual.

Keep this instruction manual in a safe place for future reference or if service is required on your unit. Please read the 'Warranty' leaflet carefully.

#### **INTENDED USE**

This product is intended for domestic lawn mowing only. The cutting blade should rotate approximately parallel to the ground over which it is being wheeled. All four wheels should touch the ground while mowing. It is a pedestrian controlled walk behind mower.

**NOTE:** The mower should never be operated with the wheels off the ground, it should not be pulled or ridden on. It should not be used to cut anything other than domestic grass lawns.

Do not use the product for any task, except for that which it is intended.

# General safety symbol and meanings



Warning!



Read the directions for use before operating the machine.



Wear safety goggles and ear protection.



Oil and fuel.



Toxic fumes.



Flammable.



Keep your distance.



and pull off the spark plug boot. Read the directions before carrying out any maintenance work.

Always switch off the machine



A pair of safety boots.



A pair of protective gloves.



CAUTION! Hot surfaces. Keep hand and feet clear.

# Unit details

When unpacking the unit, ensure that all component parts listed below have been provided. Should there be a problem, notify the place of purchase.

You should find the following enclosed:

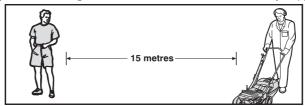
- 1 Lawnmower
- · 1 Assembled grasscatcher
- 1 Upper and Lower handle and accessories pack (Customer assembled models only)
- 1 Mulching plug (Mulch or Catch models only)
- 1 Accessories pack
- 1 Charger (Electric Starter models only)
- 1 Operation & Assembly instructions



#### Hazards

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

- Do not smoke while operating or refuelling the mower. Never add fuel or remove the fuel cap
  while the engine is running or hot. If the fuel is spilt, do not start the engine. Move the mower
  away from the area of the spill. Do not create any source of ignition until the fuel vapours have
  dissipated.
- Check all fasteners regularly. Always ensure that the mower is in a safe operating condition. Use genuine spare parts only.
- Do not operate the mower in confined spaces where exhaust fumes (carbon monoxide) can collect.
- Stop the engine whenever you leave the mower, even if only for a moment.
- Stop the engine when emptying the grasscatcher. Never try to clear grass from inside the mower while the engine is running.
- Never lift, carry or tilt the mower when the engine is running.
- Bystanders must be at least 15 metres away during operation of the mower, as rocks and other materials may be thrown at high velocities. Switch the unit off immediately if approached.



- Never use the mower unless the grasscatcher and/or the rear flap are correctly assembled and fitted.
- The muffler becomes very hot during operation and remains hot for a while after stopping the
  engine. Be careful not to touch the muffler while is hot. To avoid severe burns or fire hazards, let
  the engine cool before transporting or storing it indoors.

# Personal Safety Equipment

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

- · A set of ear muffs.
- · A pair of protective gloves.
- · A pair of safety boots.
- Eye protection.
- · Long pants.

# Safety Instructions

#### Transporting the mower

- Turn the engine off, by moving the engine throttle lever to the 'STOP' position and switching the fuel tap off (where fitted).
- Always disconnect the spark plug lead.
- Do not transport the mower with fuel in the fuel tank.

# Before using the mower

 FOR 4 STROKE ENGINES, SAE 30 OIL MUST BE PLACED IN ENGINE SUMP BEFORE STARTING ENGINE. PLEASE REFER TO PAGE 11 IN THIS MANUAL, FOR FILLING VOLUME AND METHOD. FAILURE TO DO SO WILL CAUSE ENGINE DAMAGE AND WILL VOID ENGINE WARRANTY.



- Wear the required safety equipment, as described in "Personal Safety Equipment" (see page 4).
- Do not allow children or people unfamiliar with these instructions to use the mower.
- Know the mower controls. Learn how to stop the engine quickly in an emergency by moving the engine throttle to the 'STOP' position or releasing the engine brake lever (depending on model).
- Before using the mower, ensure that the blade assembly is not worn or damaged. Always replace worn or damaged blades and bolts in sets to preserve correct balance. Damaged or worn blades and bolts are major hazards. Use genuine spare parts only.
- Check all fasteners regularly. Always ensure the mower is in safe operating condition.
- Check for grass build up around the engine and muffler which may cause overheating and/or a fire hazard.
- Do not start the engine unless the rear flap and/or grasscatcher are securely in position.

### **Operating the mower**

- Do not mow while people or pets are in the vicinity of the mower or within the mowing area. Ensure that bystanders are a minimum of 15 metres away.
- Do not mow in bare feet or open shoes. Wear long trousers, heavy footwear, eye and ear protection.
- Make sure the lawn is clear of sticks, stones, bones, wire and debris before mowing. These could be thrown by the blades and cause injury or damage.
- Mow only in good daylight.
- Start the engine carefully with feet well clear of blades. Do not tilt the mower when starting the engine.
- Stop the engine whenever you leave the mower, even for a moment.
- Keep hands and feet away from rotating parts.
- Do not over speed the engine or alter the governor settings. Excessive engine speed is dangerous and shortens mower life.
- . Never lift, carry or tilt the mower when the engine is running.
- Stop the engine before pushing the mower across gravel, paths or roads. Stop the engine before the mower leaves the lawn to avoid hazards, injury or damage.
- Stop the engine before adjusting the cutting height.
- Mow across the face of a slope, never up or down. Use extreme caution when changing direction on a slope. Do not mow on excessively steep slopes. Do not tilt the engine more than 20° from horizontal.
   Operating at excessive angles may result in fuel spillage and problems due to the oil level in the engine.
- Never mow by pulling the mower towards you. You could slip and pull the mower on top of your feet.
- · Walk with the mower, never run.
- At the conclusion of mowing, always turn the mower off using the engine throttle lever or the engine brake lever (depending on model).

### Safety Instructions

#### Maintaining the mower

- If the mower begins to vibrate abnormally, or if it strikes a foreign object STOP the engine, disconnect
  the spark plug lead and keep it away from the spark plug. Inspect the mower and blades for any
  damage.
- Replace worn or faulty mufflers as they adversely affect engine performance and increase emissions.
- Store the mower in a well ventilated area, away from any naked flames such as those found in hot water heaters.

### Refuelling the mower

- Refuel the mower outdoors only.
- Do not smoke when refuelling the engine. Never add fuel or remove the fuel cap while the engine is running or hot. If fuel is spilled, do not start the engine. Move the mower away from the area of the spill. Do not create any source of ignition until fuel vapours have dissipated. Clean any spills immediately.
- Store fuel in a cool place and in a container specifically designed for the purpose. In general, plastic
  containers are unsuitable.

# Handle Assembly Parts

Your lawnmower should include a kit with the following parts.

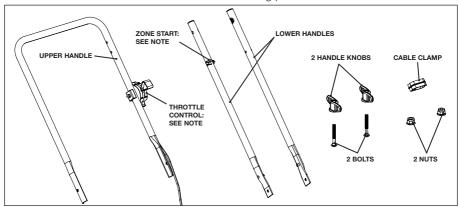


Fig. 1

**Note:** The throttle control is fully assembled to the upper handle and the cable is connected with the engine.

The zone start is fully assembled to one of the lower handle.

# Attaching the Lower Handle

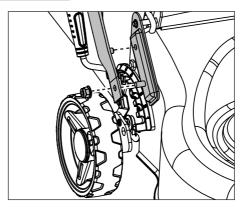


Fig. 2

- 1. Fit one of the lower handle with a zone start assembled to the handle mounting bracket as shown in figure 2 and tighten the nut securely.
- 2. Repeat the same step for the remaining lower handle.

# ASSEMBLY PROCEDURES

# Attaching the Upper Handle

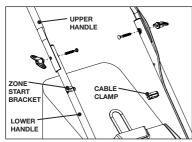
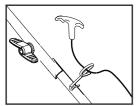


Fig. 3

- 1. Attach the upper handle to the lower handle as shown in figure 3 using the knobs and bolts provided. The knobs should be on the outside.
- Attach the starter cord as shown in figure 4.\* For models with Zone Start only.
- 3. Secure the throttle cable to the lower handle with the cable clamp to tidy and avoid hanging throttle cable.



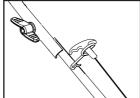


Fig. 4



STOP the engine before attaching the upper handle.



Check the throttle cable movement before starting. Ensure the throttle control operation is smooth through out its full range of travel.



# **ASSEMBLY PROCEDURES**

# Grasscatcher

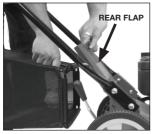






Fig. 14 Fig. 15 Fig. 16

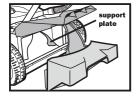
- 1. Stop the engine.
- 2. Raise the rear flap as shown in figure 14 for fabric grasscatcher model or figure 15 for hard top plastic with fabric grasscatcher model.
- 3. Hook the grasscatcher on the bar at the rear of the mower as shown in figure 16 and lower the rear flap.
- 4. To remove the grasscatcher, lift the rear flap and grasp the handle on the grasscatcher and unhook from the rear bar.

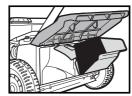


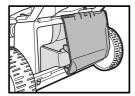
STOP the engine before fitting or removing the grasscatcher.

Never use the mower unless the rear flap is closed or the grass catcher is correctly fitted.

# Mulching Plug - Mulch or catch models only





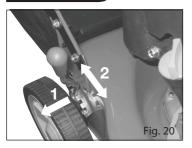


- 1. Stop the engine and raise the rear flap.
- 2. Insert the mulching plug into the baseplate.
- 3. Ensure that the mulching plug is resting on the support plate and is positioned against the inside of the baseplate. Push the mulching plug down so that it rests flush against the rear cross member.
- 4. Close the rear flap ensuring that it closes fully. The rear flap should rest on the mulching



STOP the engine before inserting or removing the mulching plug.

# **Cutting Height**



Height adjustment allows lawn to be cut at different lengths.

- · Set cutting height by adjusting the height lever.
- Various setting for height may be used depending upon conditions.



STOP the engine before adjusting the cutting height.



Briggs and Stratton Engines only:

# **Engine Oil**



### 4 Stroke Label

Briggs & Stratton, Honda:-

Engine must have SAE 30 Oil added to the Engine Sump before starting. Refer to the Engine Manual for oil filling information.

Please use the engine's dipstick to ensure correct oil fill level.

Failure to add oil to your engine before attempting to start it will damage the engine and void the Engine Warranty.



# WARNING WARNING WARNING

ENGINE HAS NO COLONIA OIL IN SUMP
ADD SAE 30 OIL TO SUMP PRIOR TO STARTING ENGINE
REFER TO ENGINE MANUAL FOR OIL VOLUME



FAILURE TO FOLLOW THIS INSTRUCTION WILL VOID ENGINE WARRANTY



- · Clean any spills immediately or before starting.
- Do not mix oil with petrol.



# Starting & Stopping

These notes supplement the information on starting and stopping your lawnmower engine found in the Engine Operator's Manual supplied with your lawnmower. Please read your Engine Operator's Manual prior to attempting to start your engine for the first time. If your engine model is not covered by the notes below please read the Engine Manual supplied with your lawnmower.

- Always check your engine oil level before starting the engine at the start of mowing.
- Check that the spark plug is connected before attempting to start the engine.
- Ensure you have fresh petrol in the engine's fuel tank.
- Ensure the fuel tap, where fitted is ON before attempting to start the engine.
- · For your safety, keep your hands and feet clear of the mower blades at all times.

# **Briggs & Stratton Pull Start Engines**

Briggs and Stratton engines may or may not have a primer. The primer, where fitted is in the centre of the air filter cover.

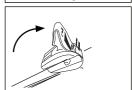
#### Starting - Primer Engines:

- 1. Push the throttle control to the **START/RUN** position.
- 2. Push the Primer Button three times. This step should not be required on a warm engine.
- 3. Firmly hold the starter handle and pull the starter slowly until resistance is felt, then pull the cord rapidly.
- 4. If the engine does not start after a couple of repeated attempts, repeat the priming step before further starting attempts.
- Return the starter handle gently. Do not allow the starter handle to fly back and strike the engine cowling as damage may result.

To stop the engine Move the throttle control lever to the STOP position.







# Starting & Stopping

## Starting - Non-Primer Engines:

- 1. Push the throttle control to the START/RUN position.
- 2. Firmly hold the starter handle and pull the starter slowly until resistance is felt, then pull the cord rapidly.
- **3.** The engine should start after a couple of attempts.
- 4. Return the starter handle gently. Do not allow the starter handle to fly back and strike the engine cowling as damage may result.

To stop the engine, move the throttle control to the stop position.

# **Briggs & Stratton In-Start Engines**

Please read your Engine Operator's Manual prior to attempting to charge the In-Start Battery or starting your engine for the first time.

**Note:** In-Start engines sold in Australia do not have the brake bale arm on the upper handle noted in the Engine Manual text.

#### Starting - In-Start Engines:

- 1. Slide the battery into its position on the top of the engine.
- 2. Push the throttle control to the START/RUN position.
- 3. If your lawnmower is fitted with a key starter, fit the key and turn clockwise. When the engine fires, release the key.
- 4. If your lawnmower is fitted with a push button starter, lift the cover and push the starter button. When the engine fires, release the button.
- The engine should start within a few cranks of the starter.

To stop the engine, move the throttle control to the stop position.

# Self Propelled

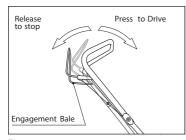


Fig. 29

### **Drive Control operation**

Some models will have the drive control system. To operate the drive control system:

- To engage drive press engagement lever against mower handle.
- Hold lever against handle while drive is required.
- To disengage drive release lever.

**NOTE:** Drive control adjustment is automatic. All self propelled models are fitted with a self adjusting mechanism which eliminates the need for any drive control adjustment.





Non Briggs and Stratton Engines only:

### Fuel and Oil

#### Oil Recommendations

Use 4-stroke motor oil that meets or exceeds the requirements for API service classification SF. Always check the API service label on the oil container to be sure it includes the letters SF or greater (or equivalent). SAE 30 is recommended.

#### To check/add oil

- Remove the dipstick and wipe with a clean cloth.
- · Insert and tighten the dipstick.
- Remove the dipstick and check the oil level. It should be between the Min and Max marks on the dipstick.

**NOTE:** The engine is supplied without oil. Before using the mower for the first time, slowly add 300ml or 500ml of oil to the engine sump (depending on model). Then check the oil level and add more if required.





Fig. 21

- If low, add oil slowly into the oil filler. Do not overfill. After adding oil, wait one minute and then recheck the oil level (check 2 times).
- · Replace and tighten the dipstick.

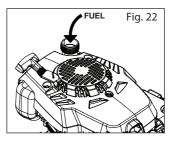
#### **Fuel Recommendations**

Fuel must meet these requirements:

- Clean, fresh and unleaded regular-grade petrol.
- Petrol with up to 10% ethanol content is acceptable.

# To add fuel

- Clean the fuel cap area of dirt and debris. Remove the fuel cap.
- Fill the fuel tank with fuel. To allow expansion of the fuel, do not fill above the bottom of the fuel tank neck.
- Reinstall the fuel cap. Make sure the fuel cap is closed securely.





- Clean any spills immediately or before starting.
- . Do not mix oil with petrol.

# Starting & Stopping

- · "COLD STARTING" is when the engine is cold.
- · "HOT STARTING" is when the engine is hot or warm.

#### STARTING THE ENGINE

STEP 1. Set the throttle control lever.

#### FOR COLD STARTING:

**CHOKE MODELS** (see figure 24) - Move the throttle control lever to the COLD position. **NON-CHOKE MODELS** (see figure 23) - Move the throttle control lever to RUN position and press the primer bulb three times pausing each time (where fitted).

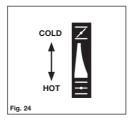


#### FOR HOT STARTING:

**CHOKE MODELS** (see figure 24) - Move the throttle control lever to the HOT position. **NON-CHOKE MODELS** (see figure 23) - Move the throttle control lever to RUN position and priming may only be necessary if the mower fails to start (where fitted).

STEP 2. Open the fuel tap (where fitted) to "ON" position as shown in figure 25.







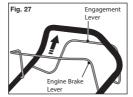
**NOTE:** Some models will have Pull-Start only. Some models will have both Pull-Start and Electric Start with Engine brake. Refer to the instruction below which specific to your model.

**STEP 3a (Pull Start, see figure 26).** Pull the starter grip lightly until resistance is felt, then pull briskly.

**STEP 3b (Pull Start with Engine Brake, see figure 26 & 27).** Hold the engine brake lever only against the handle and pull the starter grip lightly until resistance is felt, then pull briskly.

**STEP 3c (Electric Start with Engine brake, see figure 27 & 28).** Hold the engine brake lever only against the handle and press the push button start. When engine starts, release the push button start.









- Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.
- Ensure the spark plug is connected before starting the engine.
- For Electric Starter models, do not crank the engine over for more than 15 seconds at a time. If the engine fails to start, recharge the battery or contact an Authorized Service Centre.
- For Self-propelled models, do not hold engagement lever against handle when starting the engine.

# STOPPING THE ENGINE (Depending on model)

**STEP 1a.** Move the throttle control lever to the STOP position as shown in figure 23.

**STEP 1b (Engine Brake).** Release the engine brake lever from the handle.



- Ensure engine & blade come to a complete stop before releasing the handle & touching any part of the mower.
- For models supplied with engine brake, regularly inspect and check for any worn or damaged engine brake pads. Replace if required. We strongly recommend that you see or contact an Authorized Service Centre for replacing the worn or damaged engine brake pads to ensure the engine brake pads are properly replaced.



### Grasscatcher Level Indicator

Some models will have the grasscatcher level indicator to show whether the catcher is empty or full:

- The level indicator inflates if the catcher is not full during the moving.
- If the catcher is full, the indicator collapses; once this happens, stop moving immediately and empty the catcher, make sure it is clean and ensure its meshwork is ventilated.

#### **IMPORTANT:**

If the level indicator opening is very dirty, the indicator will not inflate-in this case, clean the position of indicator opening immediately.





Fig. 30

Fig. 31

# Mowing & Mulching Tips

- A mulching mower is designed to cut, retain, and recut the clippings until they have reached
  a very small size. These are then blown down into the root system as nutrients for your lawn.
- For best mulching results only mow the top 2.5cm of lawn growth. If grass has become excessively long choose a height setting and gradually reduce the cutting height after each pass, or use grasscatcher.
- · Dry grass will aid in the mulching action of the mower.
- Cut the grass regularly to avoid it becoming too long and making it difficult to mulch.
- As a general rule, only cut the top one third of the grass length (approximately). More than this
  may leave an untidy appearance and finish.
- Mulching is sensitive to the chosen height setting. If the height setting is too low cut grass may be left on top of the lawn. In this case raise the height setting.
- Cut the grass in the late afternoon or morning. This will stop the grass being damaged by direct sunlight.
- To maintain cutting performance keep the underside of the mower clean.
- The cutting pattern should be varied from week to week (eq. North-South to East-West).
- When using a mulcher the grass tends to be carried along with the mower. Mow from the thick
  grass to light grass as this will deposit clippings and encourage growth in these areas.
- Excessively long grass will not be mulched adequately, in this case, it is recommended to use grasscatcher.
- Worn or incorrect blades will reduce lawn finish and will not mulch properly. Use only genuine blades and replace them regularly.

# Blade Replacement

### For Your Safety

- Never use the mower unless the grasscatcher or guards supplied by the manufacturer are in position.
- · Before starting the mower check blades and bolts for damage or wear.
- WARNING: If you strike an obstruction, stop the engine, disconnect the spark plug lead and check blades for damage. Periodically inspect blade adaptor for cracks, replace when necessary.
- CAUTION: Worn and damaged blades are major hazards.
- DO NOT lay mower on side.
- **CAUTION:** Be sure to disconnect and ground the spark plug wire before working on the cutting blade to prevent accidental engine starting. Protect hands by using heavy duty gloves to grasp the cutting blade.
- We recommend replacing that the blade bar, washer and bolt be replaced when changing the blade bar
- Use only genuine replacement parts. Insist on them from your parts and service dealer.
- Use of non-genuine blades may void your warranty and could result in damage or injury.



Replace all parts that are worn or damaged.



Direction of the blade and washer are important for the correct assembly. Incorrect assembly may cause serious injury or property damage.

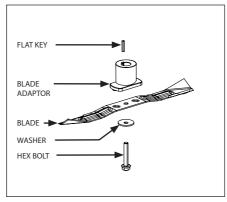


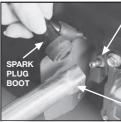
Fig. 32

 Before reassembling the blade and the blade adaptor to the unit, lubricate the engine crankshaft and the inner surface of the blade adaptor with light oil. Install the blade adaptor on the crankshaft. Refer to the figure above. Place the blade with the part number facing away from the adaptor. Align the washer over the blade and insert the hex bolt. Tighten the hex bolt to 35-45Nm.



# Spark plug

- Pull off the spark plug boot by twisting side to side gently.
- Remove the spark plug with a suitable spark plug socket spanner.
- 3. Check the spark plug for carbon deposits and clean if necessary.
- 4. Check the gap with a wire gauge and if necessary reset the gap (the gap should be 0.6mm - 0.7mm).
- 5. Assemble in reverse order. Tighten the spark plug with a torque of 20Nm.



**SPARK** 

SPARK

PLUG

Fig. 34

# Air Filter

- Never start or run the engine with the air filter assembly removed or with the air filter element removed.
- Always switch off the machine and disconnect spark plug H.T. lead before carrying out any maintenance work.





Fig. 35

Fig. 36

- 1. Press the snap fits to open the air filter cover.
- 2. Remove the air filter element.
- 3. For foam air filter element (figure 35)
  - A. Wash the air filter element in liquid detergent and water. Squeeze dry the air filter element in a clean cloth.
  - B.Saturate the air filter element with clean engine oil. To remove the excess engine oil, squeeze the air filter element in a clean cloth.

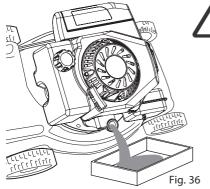
#### For paper air filter element (figure 36)

- A.To loosen debris, gently tap on a hard surface. If filter is excessively dirty, replace with a new filter.
- 4. Install the air filter element.
- 5. Close the cover.



- Incorrect fitting, cleaning or assembly of the air cleaner may damage the engine and void product warranty.
- Excessively worn or damaged air filter element should be replaced with genuine replacement part.

# Oil Change





- Fuel tank must be empty before changing the oil.
- Always switch off the machine and disconnect spark plug H.T. lead before carrying out any maintenance work.
- Drain the engine oil when the engine is warm. Warm oil drains quickly and completely.
- Running the engine with a low oil level can cause engine damage and void product warranty.
- Be careful not to touch the muffler while it is hot.
- 1. Place a suitable container next to the engine to catch the used oil.
- 2. Remove the oil filler cap/dipstick and drain the oil into the container by tipping the mower toward the oil filler neck, making sure the air filter & spark plug are up high.
- 3. To add oil refer to Fuel and Oil section.

Please dispose of used motor oil in a manner that is compatible with the environment. We suggest you take used oil in a sealed container to your local recycling centre or service station for reclamation. Do Not throw it in the garbage, pour it on the ground or down the drain.

# Charging the Battery - Electric Starter models only



- Do not disassemble, puncture or incinerate the battery.
- Do not allow the battery terminals to contact metal or conductive surfaces. This will cause a spark sufficient to ignite fuel vapors which may result in fire and injury.
- Do not make direct contact between the postive and negative terminals as this will cause a high current flow, creating sparking and/or a possible fire hazard.
- Reversing the connections will damage the charger.
- Do not start the engine when battery is charging or with charger connected.
- Take care when adjusting the handles to ensure the battery harness is not pinched or severed inside the clamps for the upper handle.
- Battery and charger are not suitable for other uses or applications.



# Handling and Care - Electric Starter models only

Like all batteries, these units contain corrosive fluids and toxic materials. Handle the battery with care.

- · Keep children away from the battery.
- The battery should be charged by adults.
- · Charge the battery in a well ventilated area.
- Keep the battery clean. Do not clean with petrochemicals. Dust with a soft brush and
  ensure that dust does not collect on the battery terminals, recharge socket or inside the
  protection boot.
- · Store the battery in a cool dry place.
- Do not allow the battery to become wet or immersed in water.
- Do not dispose of the battery pack in with domestic waste. Contact your local waste management authority for instruction of safe disposal.

**First Aid** - Following these instructions carefully if the battery breaks or cracks and some of its contents are contacted or ingested contact the poisions information centre or call a doctor immediately.

# Cleaning



Before cleaning the mower, ensure the engine throttle lever is in the 'STOP' position; Disconnect the spark plug lead and keep it away from the spark plug.

- Remove grass build up from the air intakes on the top of the engine cowl, around the engine and carburettor, and around the air filter body.
- The underside of the mower should be cleaned regularly to remove dirt and grass build up, as any build up will adversely affect grass catching and mulching performance and can promote corrosion.
- WHEN CLEANING THE UNDERSIDE OF THE MOWER, ALWAYS TILT HANDLE BACK TO GROUND LEVEL SO THE FRONT WHEELS ARE OFF THE GROUND AND SPARK PLUG IS POINTING TO THE SKY. TILTING IN OTHER DIRECTIONS CAN CAUSE THE OIL TO CONTAMINATE THE FUEL.
- A hose may be used on the underside of your mower ONLY. Care must be taken to NOT get water into the engine, as it may damage the magneto or get into the fuel system.
- To prevent baseplate corrosion, the underside of your mower should be cleaned immediately
  after mowing an area which has been recently dressed with sulphate of ammonia or fertiliser.
- After cleaning, run the engine briefly to dry off excess moisture before storing.

# Storage

Fuel can become stale when stored over 30 days. Stale fuel causes acid and gum deposits to form in the fuel system. Drain the fuel from the engine prior to storing the lawnmower for long periods.



# Maintenance Chart

Refer to the following table for routine maintenance.		Time Period							
Features	Requirements	Before start	After finish	Refuelling	Weekly	Monthly	If faulty	If damaged	As required
Lawnmower	Visual inspection (leaks)	•		•					
Battery (if equipped)	Check operation & for damage	•	•						
Throttle lever	Check operation		•						
Remote air filter hose	Check	•				•			
Cutting system	Inspect and check assembly	•							
(Blades)	Replace						•	•	
Rear flap	Inspect and check assembly	•							•
Chassis	Check for buildup of grass		•						
	Clean		•						
	Replace							•	
Air filter	Check	•							
	Clean	•							
	Replace						•	•	
Engine cylinder fins	Clean					•			•
Spark plug	Replace						•		•
All accessible fasteners	Check	•							
	Retighten								•
Engine mounting bolts	Check and retighten					•			
Muffler	Inspect					•		•	
	Replace							•	•
Grasscatcher	Check	•							
	Clean		•						
	Replace							•	
Check oil	Check	•							
Engine brake (if equipped)	Check		•						



Before carrying out maintenance, STOP the engine, disconnect the spark plug lead from the spark plug and keep it away from the spark plug.



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

# Troubleshooting

Problem	Possible cause	Correction
Does not start	Fuel tap 'OFF'	Turn fuel tap 'ON'(*where fitted)
	Out of fuel	Refill tank with correct fuel
	Throttle lever in incorrect position	Refer to 'Starting Procedures'
	Sparkplug lead not connected	Pressterminal cover fully onto the sparkplug
	Engine flooded	Turn fuel tap 'OFF' .(*where fitted) Pull starter cord until engine starts, then turn fuel tap 'ON'
	Dirty sparkplug	Replacesparkplug
	Stale fuel in tank from last season	ContactServiceCentre
	Water in fuel tank	ContactServiceCentre
	Servicerequired	ContactServiceCentre
	Engine worn	ContactServiceCentre
	Low or no oil (4 stroke)	Top up with correct oil
	Battery is not charged	Chargethe battery
	Pushbutton key is not installed	Insert the push button key
	Battery may require service or replacement	ContactServiceCentre
	Engine brake lever in wrong position	Hold the engine brake lever against the handle
Loss of power	Incorrect throttle setting	Set throttle lever in the 'RUN'position
	Dirty air filter element	Clean or replace
	Too low height adjustment	Raisecutting height
	Low or no oil (4 stroke)	Top up with correct oil
Poor cutting or	Bladesworn or damaged	Replace
catching	Blade disc loose	Contact Service Centre
	Slowrunning	Refer to 'Lossof Power'above
	Bladesrestricted by grassand dirt accumulated under the baseplate	Remove spark plug lead and clean under the baseplate
	Blockedvents in grasscatcher	Clean vents
Excessive vibrations	Build up of grassand dirt on upper surface of blade disc	Clean
	Bladesout of balance	Replaceboth blades
	Bent or damaged disc or blade	Replacedisc or both blades
	Loosenessof assembly	Checkall nuts for tightness
	Low or no oil (4 stroke)	Top up with correct oil
Engine stops	Fuel supply blocked	Checkfuel line
frequently	Engine worn or seized	Contact Service Centre
	Fuel cap not venting	Check/ Loosencap slightly
	Low or no oil (4 stroke)	Top up with correct oil



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