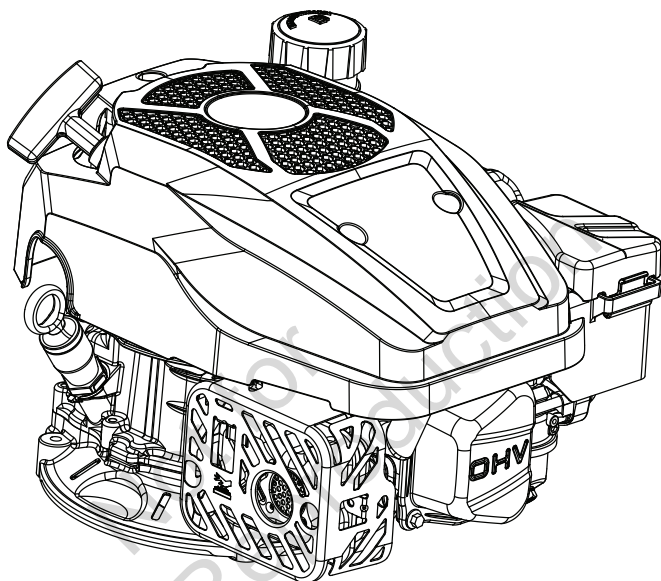
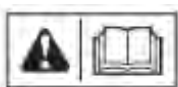


VICTA



**Models: V127
V144
V170**



WARNING! Read this manual before operating your Victa engine.

IMPORTANT INFORMATION

PRE-USE CAUTION: ENGINE OIL



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

Victa engines are supplied without fuel or oil for transportation. Please use the engine's dipstick to ensure correct oil fill level.


The engine **MUST** have the sump (oil reservoir) filled with oil to the appropriate level prior to operation. As directed by the label shown in below.

For full details on filling engine oil, refer to maintenance section below.



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SAFETY ALERT SYMBOL AND SIGNAL WORDS

The safety alert symbol  is used to identify safety information about hazards that can result in personal injury. A signal word (DANGER, WARNING, or CAUTION) is used with the alert symbol to indicate the likelihood and the potential severity of injury. In addition, a hazard symbol may be used to represent the type of hazard.











DANGER indicates a hazard which, if not avoided, will result in death or serious injury.

WARNING indicates a hazard which, if not avoided, could result in death or serious injury.

CAUTION indicates a hazard which, if not avoided, could result in minor or moderate injury.

NOTICE indicates a situation that could result in damage to the product.

Hazard Symbols And Meanings

| | | | |
|--|--|---|--|
|  | Safety information about hazards that can result in personal injury. |  | Read and understand the operators manual before operating or servicing the unit. |
|  | Fire hazard. |  | Explosion hazard. |
|  | Shock hazard Hot surface hazard. |  | Toxic fume hazard. |
|  | Hot surface hazard. |  | Noise hazard - Ear protection recommend for extended use. |
|  | Thrown objects hazard - Wear eye protection. |  | Explosion hazard. |

OPERATOR SAFETY

SAFETY MESSAGES



WARNING



This product can expose you to chemicals including petrol engine exhaust.

This product can expose you to chemicals including petrol engine exhaust, which is known to cause cancer, and carbon monoxide, which is known to cause birth defects or other reproductive harm.



WARNING

Victa Engines are not designed for and are not to be used to power: fun-karts; go-karts; children's, recreational, or sport all-terrain vehicles (ATVs); motorbikes; hovercraft; aircraft products; or vehicles used in competitive events. Improper engine application may result in serious injury or death.



WARNING



Fuel and its vapours are extremely flammable and explosive.

Fire or explosion can cause severe burns or death.

When Adding Fuel

- Turn engine off and let engine cool at least 2 minutes before removing the fuel cap.
- Fill fuel tank outdoors or in well-ventilated area.
- Do not overfill fuel tank. To allow for expansion of the fuel, do not fill above the bottom of the fuel tank neck.
- Keep fuel away from sparks, open flames, pilot lights, heat, and other ignition sources.
- Check fuel lines, tank, cap, and fittings frequently for cracks or leaks. Replace if necessary.
- If fuel spills, wait until it evaporates before starting engine.

When Starting Engine

- Make sure that spark plug, muffler, fuel cap and air cleaner (if equipped) are in place and secured.
- Do not crank engine with spark plug removed.
- If engine floods, set choke (if equipped) to OPEN / RUN position, move throttle (if equipped) to FAST position and crank until engine starts.

When Operating Equipment

- Do not tip engine or equipment at angle which causes fuel to spill.
- Do not choke the carburettor to stop engine.
- Never start or run the engine with the air cleaner assembly or the air filter element removed.

When Changing Oil

- If you drain the oil from the top oil fill tube, the fuel tank must be empty or fuel can leak out and result in a fire or explosion.

SAFETY MESSAGES

When Tipping Unit for Maintenance

- When performing maintenance that requires the unit to be tipped, the fuel tank if mounted on the engine, must be empty or fuel can leak out and result in a fire or explosion.

When Transporting Equipment

- Transport with fuel tank EMPTY.

When Storing Fuel or Equipment With Fuel In Tank

- Store away from furnaces, stoves, water heaters or other appliances that have pilot lights or other ignition sources because they can ignite fuel vapours.



WARNING



Starting engine creates sparking.

Sparking can ignite nearby flammable gases.

Explosion and fire could result:

- If there is natural or LP gas leakage in area, do not start engine.
- Do not use pressurised starting fluids because vapours are flammable.



WARNING



POISONOUS GAS HAZARD. Engine exhaust contains carbon monoxide, a poisonous gas that could kill you in minutes. You **CANNOT** see it, smell it, or taste it. Even if you do not smell exhaust fumes, you could still be exposed to carbon monoxide gas. If you start to feel sick, dizzy, or weak while using this product, get to fresh air **RIGHT AWAY**. See a doctor. You may have carbon monoxide poisoning.

- Operate this product **ONLY** outside far away from windows, doors and vents to reduce the risk of carbon monoxide gas from accumulating and potentially being drawn towards occupied spaces.
- **NOTE:** Smoke alarms cannot detect carbon monoxide gas.
- **DO NOT** run this product inside homes, garages, basements, crawl spaces, sheds, or other partially-enclosed spaces even if using fans or opening doors and windows for ventilation. Carbon monoxide can quickly build up in these spaces and can linger for hours, even after this product has shut off.
- **ALWAYS** place this product downwind and point the engine exhaust away from occupied spaces.

OPERATOR SAFETY

SAFETY MESSAGES



WARNING



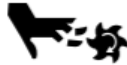
Rapid retraction of starter cord (kickback) will pull hand and arm toward engine faster than you can let go.

Broken bones, fractures, bruises or sprains could result.

- When starting engine, pull the starter cord slowly until resistance is felt and then pull rapidly to avoid kickback.
- Remove all external equipment / engine loads before starting engine.
- Direct-coupled equipment components such as, but not limited to, blades, impellers, pulleys, sprockets, etc., must be securely attached.



WARNING



Rotating parts can contact or entangle hands, feet, hair, clothing, or accessories.

Traumatic amputation or severe laceration can result.

- Operate equipment with guards in place.
- Keep hands and feet away from rotating parts.
- Tie up long hair and remove jewellery.
- Do not wear loose-fitting clothing, dangling drawstrings or items that could become caught.



WARNING



Running engines produce heat. Engine parts, especially muffler, become extremely hot. Severe thermal burns can occur on contact.

Combustible debris, such as leaves, grass, brush, etc. can catch fire.

- Allow muffler, engine cylinder and fins to cool before touching.
- Remove accumulated debris from muffler area and cylinder area.
- In some areas, local law requires use of a spark arrester, maintained in effective working order, on the muffler. If this engine was originally equipped with a spark arrester, use the same type for replacement. Do not tamper with or alter the muffler assembly including the spark arrester, if fitted.

SAFETY MESSAGES



WARNING



Unintentional sparking can result in fire or electric shock.

Unintentional start-up can result in entanglement, traumatic amputation, or laceration.

Fire hazard

Before performing adjustments or repairs:

- Disconnect the spark plug wire and keep it away from the spark plug.
- Remove starting battery (only engines with electric start).
- Use only correct tools.
- Do not tamper with governor spring, links or other parts to increase engine speed.
- Replacement parts must be of the same design and installed in the same position as the original parts. Other parts may not perform as well, may damage the unit, and may result in injury.
- Do not strike the flywheel with a hammer or hard object because the flywheel may later shatter during operation.

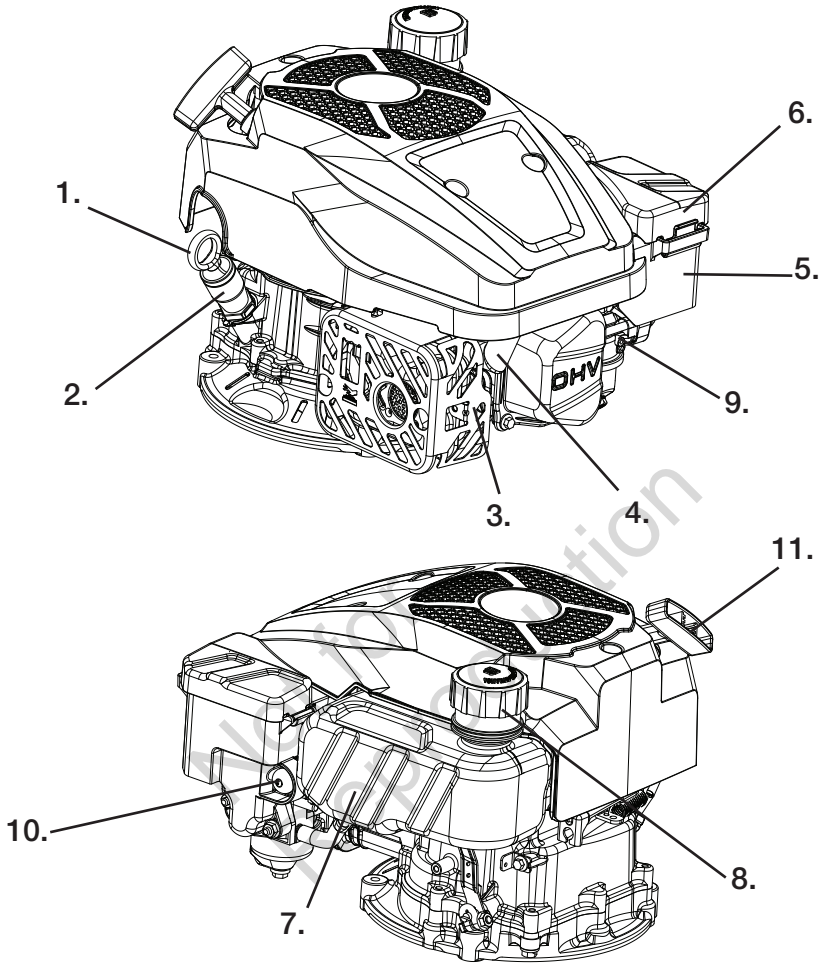
When testing for spark:

- Use approved spark plug tester.
- Do not check for spark with spark plug removed.

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| | | | |
|----|---|-----|----------------------------|
| 1. | Oil dipstick handle | 7. | Fuel tank |
| 2. | Oil fill tube | 8. | Fuel cap |
| 3. | Muffler (with guard, with spark arrestor - if fitted) | 9. | Carburettor |
| 4. | Spark plug (with connector "boot") | 10. | Primer button (AKA "bulb") |
| 5. | Air filter assembly | 11. | Starter handle (with cord) |
| 6. | Air filter assembly cover | | |

Note: Representative image only. Actual product may differ from image shown.

CONTROLS

| SYMBOL | FUNCTION | INSTRUCTIONS |
|--|---------------------|--|
|  | Stop engine | Move the control to this position to stop engine. In many applications, this will be a position of the throttle control lever (refer to the Operator's Manual of the product for confirmation). |
|  | Engine Speed - Fast | Move the control to this position to run the engine at maximum speed. In many applications, this will be a position of the throttle control lever (refer to the Operator's Manual of the product for confirmation). |
|  | Engine Speed - Slow | Move the control to this position to run the engine at minimum speed. In many applications, this will be a position of the throttle control lever (refer to the Operator's Manual of the product for confirmation). |
|  | Start engine* | Use this control to start the engine, following the procedure in the Operation section of this manual. This will either be on the starter handle (for pull-cord start engines) or also on the start button (for electric start engines) |
|  | Prime* | Push this button the required number of times to prime the engine prior to cold starting. |

* Where fitted

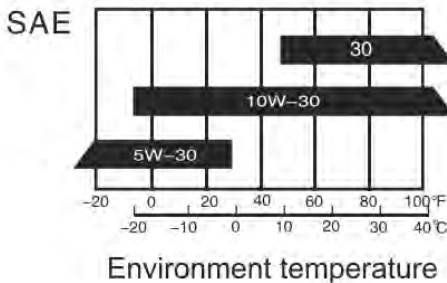
PRIOR STARTING OIL CHECK

NOTICE:

This Victa engine was shipped from its manufacturing location without oil. Retailers or dealers may have added oil to the engine. Before you start the engine for the first time, make sure to check the oil level and add oil as specified by the instructions in this manual. **If you start the engine without oil, it will be damaged beyond repair and will not be covered under warranty.**

Oil Recommendations

Use only high-quality detergent oils classified for service SF, SG, SH, SJ or higher. Do not use special additives. Outdoor temperatures determine the correct oil viscosity for the engine. Use the chart to select the best viscosity for the outdoor temperature range expected. For Australian and New Zealand garden maintenance applications, SAE 30 oil is preferable.



Oil Capacity

For oil capacities refer to the Specification page in this manual

CHECKING AND ADDING OIL



CAUTION

Before you start the engine, make sure to check the oil level and add oil as specified by the instructions in this manual. **If you start the engine without oil, it will be damaged beyond repair and will not be covered under warranty.**

1. Before checking or adding oil
 - Make sure the engine is level.
 - Clean the oil fill area of any debris.
2. Remove the dipstick, by pulling away from the oil fill tube until it 'clicks' free, and wipe with a clean cloth.
3. Install the dipstick fully - until 'click' is felt.
4. Remove the dipstick and check the oil level. Correct oil level is at the top of the high ("H") indicator on the dipstick.
5. If oil level is low ("L"), slowly add oil into the engine oil fill tube. Do not overfill. After adding oil, wait one minute and then check the oil level again.
6. Reinstall the dipstick, ensuring it 'clicks' into the closed position.

OPERATION

FUELLING

Fuel Recommendations

Fuel must meet these requirements:

- Clean, fresh, unleaded petrol.
- A minimum of 91 RON/87 AKI.
- Petrol with up to 10% ethanol (gasohol) is acceptable.

NOTICE: Do not use unapproved petrols, such as E15 and E85. Do not mix oil in petrol or modify the engine to run on alternate fuels. Use of unapproved fuels will damage the engine components, which will not be covered under warranty.

To protect the fuel system from gum formation, mix a fuel stabilizer into the fuel. See Storage. All fuel is not the same. If start or performance problems occur, change fuel providers or brands. This engine is certified to operate on petrol. The emissions control system for carburetted engines is EM (Engine Modifications).

Filling Fuel



WARNING



Fuel and its vapours are extremely flammable and explosive.

Fire or explosion can cause severe burns or death.

When adding fuel;

- Turn engine off and let engine cool at least 2 minutes before removing the fuel cap.
 - Fill fuel tank outdoors or in well-ventilated area.
 - Do not overfill fuel tank. To allow for expansion of the fuel, do not fill above the bottom of the fuel tank neck.
 - Keep fuel away from sparks, open flames, pilot lights, heat, and other ignition sources. Check fuel lines, tank, cap, and fittings frequently for cracks or leaks. Replace if necessary.
 - If fuel spills, wait until it evaporates before starting engine.
1. Clean the fuel cap area of dirt and debris. Remove the fuel cap.
 2. Fill the fuel tank with fuel. To allow for expansion of the fuel, do not fill above the bottom of the fuel tank neck.
 3. Reinstall the fuel cap.

START AND STOP THE ENGINE



WARNING



Rapid retraction of starter cord (kickback) will pull hand and arm toward engine faster than you can let go. Broken bones, fractures, bruises or sprains could result.

- When starting engine, pull the starter cord slowly until resistance is felt and then pull rapidly to avoid kickback.



WARNING



When Starting Engine:

- Ensure that spark plug, muffler, fuel cap and air cleaner (if equipped) are in place and secured.
- Do not crank engine with spark plug removed.
- If engine floods, set choke (if equipped) to OPEN / RUN position, move throttle (if equipped) to FAST position and crank until engine starts.



WARNING



POISONOUS GAS HAZARD. Engine exhaust contains carbon monoxide, a poisonous gas that could kill you in minutes. You **CANNOT** see it, smell it, or taste it. Even if you do not smell exhaust fumes, you could still be exposed to carbon monoxide gas. If you start to feel sick, dizzy, or weak while using this product, shut it off and get to fresh air **RIGHT AWAY**. See a doctor. You may have carbon monoxide poisoning.

- Operate this product **ONLY** outside far away from windows, doors and vents to reduce the risk of carbon monoxide gas from accumulating and potentially being drawn towards occupied spaces.
- Install battery-operated carbon monoxide alarms or plug-in carbon monoxide alarms with battery back-up according to the manufacturer's instructions. Smoke alarms cannot detect carbon monoxide gas.
- **DO NOT** run this product inside homes, garages, basements, crawlspaces, sheds, or other partially-enclosed spaces even if using fans or opening doors and windows for ventilation. Carbon monoxide can quickly build up in these spaces and can linger for hours, even after this product has shut off.
- **ALWAYS** place this product downwind and point the engine exhaust away from occupied spaces.

Determine The Starting System

Before starting the engine, you must determine the type of starting system that is on your engine. Your engine will have one of the following types.

- **Primer System:** This features a primer button to be used for starting in cool temperatures. It does not have a manual choke.

Note: Equipment may have remote controls. See the equipment manual for location and operation of remote controls.

- **Fully automatic system:** No manual choke or primer, rewind (pull cord) starter.
- **Electric start system:** No manual choke or primer, push button starter.

Start Engine - Primer System:

1. Check the engine oil. See the Check Oil Level section.
2. Make sure equipment drive controls, if equipped, are disengaged.
3. Move the throttle control, if equipped, to the FAST position. Operate the engine in the FAST position.
4. Push the primer three (3) times. Note: Priming is usually unnecessary when restarting a warm engine. Note: If you push the primer too many times, excessive fuel will flood the engine and it will be difficult to start.
5. If the product is equipped with an engine stop lever, hold the engine stop lever against the handle.
6. Firmly hold the starter cord handle. Pull the starter cord handle slowly until resistance is felt, then pull rapidly.

OPERATION

Start Engine - Fully Automatic System

1. Check the engine oil. See the Check Oil Level section.
2. Make sure equipment drive controls, if equipped, are disengaged.
3. Move the throttle control, if equipped, to the FAST position. Operate the engine in the FAST position.
4. If the product is equipped with an engine stop lever, hold the engine stop lever against the handle.
5. Firmly hold the starter cord handle. Pull the starter cord handle slowly until resistance is felt, then pull rapidly.

Start Engine - Electric Start System

1. Check the engine oil. See the Check Oil Level section.
2. If required, insert appropriate battery for electric start system (ensure it has sufficient charge).
3. Make sure equipment drive controls, if equipped, are disengaged.
4. Move the throttle control, if equipped, to the FAST position. Operate the engine in the FAST position.
5. If the product is equipped with an engine stop lever, hold the engine stop lever against the handle.
6. Push the Start button.

Note: If the engine does not start after repeated attempts, repeat steps except priming. If it still does not start, refer to the maintenance section of this manual.

Stop Engine



WARNING



**Fuel and its vapours are extremely flammable and explosive.
Fire or explosion can cause severe burns or death.**

- Do not choke, if equipped, the carburettor to stop the engine.

Engine Stop Lever, if equipped: Release the engine stop lever.

Stop Switch, if equipped: Move the stop switch to the OFF position.

Throttle Control, if equipped: Move the throttle control to the STOP position.

Electric Start, if equipped: Move the throttle control to the STOP position. Remove the starting battery and keep in a safe place out of the reach of children.



WARNING



Unintentional start up can result in traumatic amputation or severe laceration.

PRE-MAINTENANCE SAFETY

NOTICE: If the engine is tipped during maintenance, the fuel tank, if mounted on engine, must be empty and the spark plug side must be up.

If the fuel tank is not empty and if the engine is tipped in any other direction, it may be difficult to start due to oil or petrol contaminating the air filter and/or the spark plug.



WARNING



When performing maintenance that requires the unit to be tipped, the fuel tank must be empty or fuel can leak out and result in a fire or explosion. It is recommend visiting an Authorised Victa Service Dealer for all maintenance and service of the engine and engine parts.

NOTICE: All the components used to build this engine must remain in place for proper operation.



WARNING



Unintentional sparking can result in fire or electric shock.

Unintentional start-up can result in entanglement, traumatic amputation, or laceration.

Fire hazard.

Before performing adjustments or repairs:

- Disconnect the spark plug wire and keep it away from the spark plug.
- Disconnect battery at negative terminal (only engines with electric start).
- Use only correct tools.
- Do not tamper with governor spring, links or other parts to increase engine speed.
- Replacement parts must be of the same design and installed in the same position as the original parts. Other parts may not perform as well, may damage the unit, and may result in injury.
- Do not strike the flywheel with a hammer or hard object because the flywheel may later shatter during operation.

When testing for spark:

- Use approved spark plug tester.
- Do not check for spark with spark plug removed.

MAINTENANCE

MAINTENANCE SCHEDULE

| Minimum Interval | | Before Each Use | First Month / 6 hrs of Operation* | Every 3 Months / 18 hrs of Operation* | Every 6 Months / 36 hrs of Operation* | Every 12 Months / 60 hrs of Operation* | Every 24 Months / 125 hrs of Operation* |
|-------------------------------------|---------------------------------------|-----------------|-----------------------------------|---------------------------------------|---------------------------------------|--|---|
| Engine Oil | Check, refill as required | ● | | | | | |
| | Replace | | ● | ● | | | |
| Cooling System | Check, clean as required | ● | | | | | |
| Air filter | Check, clean as required ⁴ | ● | | ● | | | |
| | Replace ⁴ | | | | ● | | |
| Spark Plug | Clean, adjust as required | | | | ● | | |
| | Replace | As required | | | | | |
| Spark Arrestor ² | Check, clean as required | | | | ● | | |
| Fuel Hose | Check, replace as required | | | | | | ● |
| Valves ³ | Check, adjust as required | | | | | ● | |
| Cylinder Head & Piston ³ | Check, clean as required | | | | | | ● |

1 Whichever is reached first

2 Where fitted

3 To be carried out by an Authorised Victa Service Dealer.

4 Increase frequency when operated in dusty conditions.

CARBURETTOR AND ENGINE SPEED

Never make adjustments to the carburettor or engine speed. The carburettor was set at the factory to operate efficiently under most conditions. Do not tamper with the governor spring, linkages, or other parts to change the engine speed. If any adjustments are required contact an authorised Victa service dealer for service.

NOTICE: The equipment manufacturer specifies the maximum speed for the engine as installed on the equipment. Do not exceed this speed. If you are not sure what the equipment maximum speed is, or what the engine speed is set to from the factory, contact an authorised Victa service dealer for service for assistance. For safe and proper operation of the equipment, the engine speed should be adjusted only by a qualified service technician.

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CHANGE ENGINE OIL



WARNING



Fuel and its vapours are extremely flammable and explosive.

Fire or explosion can cause severe burns or death.

Running engines produce heat. Engine parts, especially muffler, become extremely hot.

Severe thermal burns can occur on contact.

- Before tilting the engine to drain oil from the oil fill tube, the fuel tank must be empty or fuel can leak out and result in a fire or explosion.
- To empty the fuel tank, run the engine until it stops from lack of fuel.
- Allow muffler, engine cylinder and fins to cool before touching.

Used oil is a hazardous waste product and must be disposed of properly. Do not discard with household waste. Check with your local authorities, service centre, or dealer for safe disposal/recycling facilities.

Remove Oil

The oil must be drained from the oil fill tube.

1. Place mower on hard, flat surface.
2. With engine off but still warm, disconnect the spark plug wire and keep it away from the spark plug.
3. Place a container to collect the oil next to the motor (oil tank side).
4. Remove the dipstick.
5. When you drain the oil from the oil fill tube, keep the spark plug end of the engine up. Drain the oil into an approved container.

Add Oil

- Make sure the engine is level.
 - Clean the oil fill area of any debris.
 - For oil capacities refer to the Specification page in this manual
1. Remove the dipstick and wipe with a clean cloth.
 2. Slowly pour oil into the engine oil fill. Do not overfill. After adding oil, wait one minute and then check the oil level.
 3. Install and tighten the dipstick.
 4. Remove the dipstick and check the oil level. Correct oil level is at the top of the full indicator on the dipstick ("F").
 5. Reinstall the dipstick it clicks into closed position.
 6. Connect the spark plug connector/boot to the spark plug.

SERVICE COOLING SYSTEM



WARNING



Running engines produce heat. Engine parts, especially muffler, become extremely hot. Severe thermal burns can occur on contact.

Combustible debris, such as leaves, grass, brush, etc., can catch fire.

- Allow muffler, engine cylinder and fins to cool before touching.
- Remove accumulated debris from muffler area and cylinder area.

NOTICE: Do not use water to clean the engine. Water could contaminate the fuel system. Use a brush or dry cloth to clean the engine.

This is an air cooled engine. Dirt or debris can restrict air flow and cause the engine to overheat, resulting in poor performance and reduced engine life. It is therefore important to regularly remove debris before it is able to build up.

Use a brush or a dry cloth to remove debris from all of the below listed areas;

- Air intake grille.
- All linkages, springs and controls.
- Around and behind the muffler.
- Oil cooler fins.

Note: A small brush with reach (such as a toothbrush) is ideal for some of the more difficult to reach parts of the engine.

After a period of time, debris can accumulate in the cylinder cooling fins and cause the engine to overheat. This debris cannot be removed without partial disassembly of the engine. Have an Authorised Victa Service Dealer inspect and clean the air cooling system as recommended in the Maintenance Schedule.

SERVICE AIR FILTER



WARNING



Fuel and its vapours are extremely flammable and explosive.

Fire or explosion can cause severe burns or death.

- Never start and run the engine with the air filter assembly or the air filter element(s) removed.

NOTICE: Do not use pressurised air or solvents to clean the filter. Pressurised air can damage the filter and solvents will dissolve the filter.

Victa engines may be fitted with a dual-stage air filter, with two foam elements of different porosities.

MAINTENANCE

Cleaning & Maintaining Foam Air Filter Element

1. Open the air filter assembly cover.
2. Remove (both of) the foam element(s).
3. Wash the foam element(s) in liquid detergent and water. Squeeze dry the foam element(s) in a clean cloth.
 - If the build-up of dirt cannot be removed from the air filter element by washing, the air filter element should be replaced. Use only a replacement air filter element designed specifically for the air filter on your Victa engine. For a dual stage filter, replace both foam elements at the same time.
4. Saturate the foam element(s) with clean engine oil. To remove the excess engine oil, squeeze the foam element in a clean cloth.
5. Install the foam element.
 - Ensure that the foam air filter elements are in the correct orientation. There should be no gaps at the corner of the air filter element.
6. Close the air filter assembly cover.

SERVICE SPARK PLUG

Check the gap with a spark plug gap gauge. If necessary, reset the gap. Install and tighten the spark plug to the recommended torque.

Note: In some areas, local law requires using a resistor spark plug to suppress ignition signals. If this engine was originally equipped with a resistor spark plug, use the same type for replacement.

SERVICE EXHAUST SYSTEM



WARNING



Running engines produce heat. Engine parts, especially muffler, become extremely hot. Severe thermal burns can occur on contact.

Combustible debris, such as leaves, grass, brush, etc. can catch fire.

- Allow muffler, engine cylinder and fins to cool before touching.
- Remove accumulated debris from muffler area and cylinder area.
- Inspect the muffler for cracks, corrosion, or other damage. If damage is found, install replacement parts before operating.
- Remove the deflector or the spark arrester, if equipped, and inspect for damage or carbon blockage. If damage is found, install replacement parts before operating.

Note: In some areas, local law requires use of a spark arrester, maintained in effective working order, on the muffler. If this engine was originally equipped with a spark arrester, use the same type for replacement.

OTHER MAINTENANCE

For other maintenance items, see an Authorised Victa Service Dealer.

If any issues are experienced that are not resolved by standard maintenance procedures, see an Authorised Victa Service Dealer. To find the location of a Authorised Victa Service Dealer, visit victa.com or contact Victa Customer Service on 1800 356 632.

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SPECIFICATION

| | | | |
|---------------------------------|---------------------------|-------------|--|
| Engine type | Air-cooled, 4 stroke, OHV | | |
| Victa engine model name | V127 | V144 | V170 |
| Bore (mm) | 61 | 65 | 70 |
| Stroke (mm) | 43.5 | 43.5 | 44.2 |
| Displacement (cm ³) | 127 | 144 | 170 |
| Max torque/rpm | >6.8Nm/2500 | >7.8Nm/2500 | >8.8Nm/2500 |
| Max power/rpm | >2kW/3600 | >2.5kW/3600 | >2.8kW/3600 |
| Normal power/rpm | >2kW/2900 | >2.3kW/2900 | >2.6kW/2900 |
| rpm setting | 3100+/-100 rpm | | 3100+/-100 (Push models) 3300+/-100 (Self Propelled models) |
| Oil reservoir | 440 - 500ml | | |
| Air filter | 2-stage foam, oiled | | |
| Fuel tank | 0.8L | | |
| Net weight (kg) | 8 | 8 | 9 |
| Spark plug Type | F5RTC | | |
| Spark plug Gap | 0.7-0.8mm | | |
| Spark plug torque | 16-20N.m | | |

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