DuroMax
NEXT GENERATION
POWER SYSTEMS

140cc 173cc 196cc
OHV Vertical Shaft Engine

OPERATOR'S MANUAL

Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein.

⚠ WARNING

READ AND FOLLOW ALL SAFETY RULES AND INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE THIS MACHINE.
FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY.

Safety References

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, **might result in minor or moderate injury.**

CAUTION, when used **without** the alert symbol, indicates a situation that **could result in damage to the engine.**

This manual contains safety information to make you aware of the hazards and risks associated with engines, and how to avoid them. Because we does not necessarily know what equipment this engine will power, it is important that you read and understand these instructions and the instructions for the equipment this engine powers.

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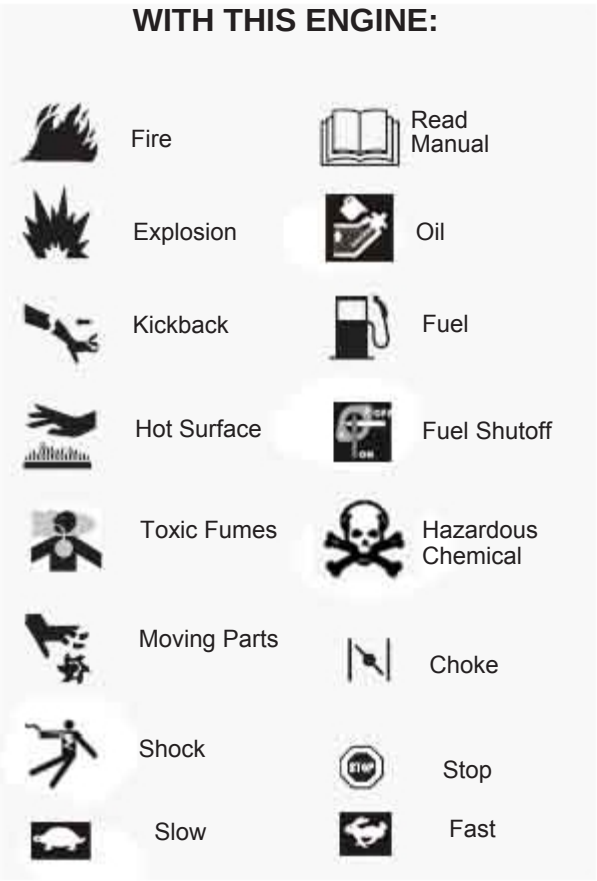
SYMBOLS ASSOCIATED WITH THIS ENGINE:



WARNING

We does not approve or authorize the use of these engines on 3-wheel All Terrain Vehicles (ATVs), motor bikes, fun/recreational go-karts, aircraft products or vehicles intended for use in competitive events. Use of these engines in such applications could result in property damage, serious injury (including paralysis), or even death.

WARNING

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

CAUTION

This engine is shipped from us without oil. If you start the engine without oil, the engine will be damaged beyond repair and will not be covered under warranty.

Safety

CAUTION

This engine is shipped from us without oil. If you start the engine without oil, the engine will be damaged beyond repair and will not be covered under warranty.

WARNING

Gasoline and its vapors 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 gas cap.
- Fill fuel tank outdoors or in well-ventilated area.
- Do not overfill fuel tank.
- Keep gasoline 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.

WHEN STARTING ENGINE

- Make sure spark plug, muffler, fuel cap and air cleaner are in place.
- Do not crank engine with spark plug removed.
- If fuel spills, wait until it evaporates before starting engine.
- If engine floods, set choke to OPEN/RUN position, place throttle in FAST and crank until engine starts.

WHEN OPERATING EQUIPMENT

- Do not choke carburetor to stop engine.

WHEN TRANSPORTING EQUIPMENT

- Transport with fuel tank EMPTY.

WHEN STORING GASOLINE OR EQUIPMENT WITH FUEL IN TANK

- Store away from furnaces, stoves, water heaters or other appliances that have pilot light or other ignition source because they can ignite gasoline vapors.

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 pressurized starting fluids because vapors are flammable.

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 cord slowly until resistance is felt, then pull rapidly.
- 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 jewelry.
- Do not wear loose-fitting clothing, dangling drawstrings or items that could become caught.

WARNING

Engines give off carbon monoxide, an odorless, colorless, poison gas.
Breathing carbon monoxide can cause nausea, fainting or death.

- Start and run engine outdoors.
- Do not start or run engine in enclosed area, even if doors or windows are open.

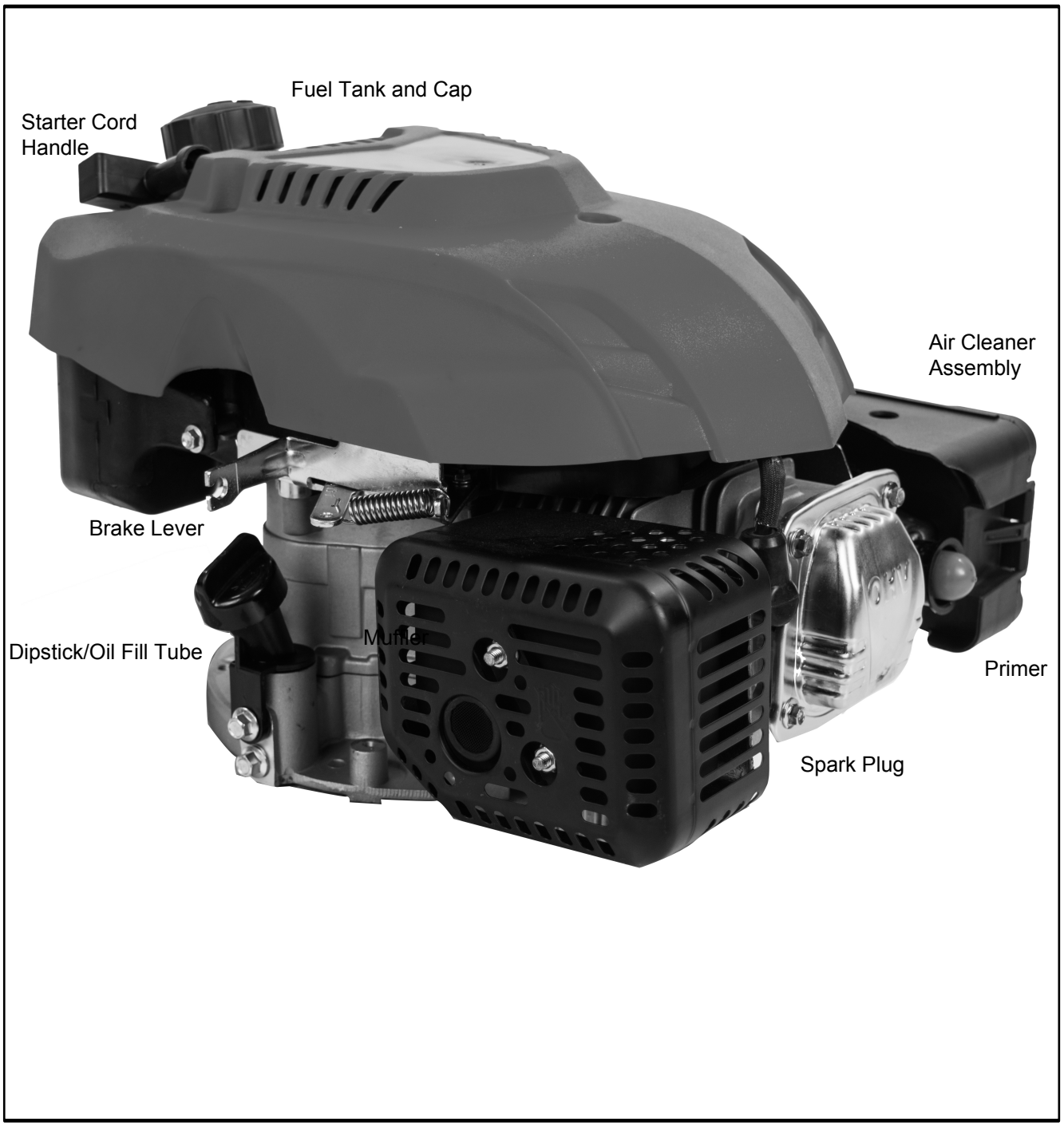
WARNING

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.
- Install and maintain in working order a spark arrester before using equipment on forest-covered, grass-covered, brush-covered unimproved land. The state of California requires this. Other states may have similar laws. Federal laws apply on federal land.

Features and Controls

Compare the illustration with your engine to familiarize yourself with the location of various features and controls.



How to Start the Engine

WARNING

Gasoline and its vapors are extremely flammable and explosive.

Fire or explosion can cause severe burns or death.

When Starting Engine

· Engine that spark plug, muffler, fuel cap and air cleaner 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

Engines give off carbon monoxide, an odorless colorless, poison gas.
Breathing carbon monoxide can cause nausea, fainting or death.

· Start and run engine outdoors.
· Do not start or run engine in enclosed area, even if doors or windows are open.

WARNING

Unintentional sparking can result in fire or electric shock.

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

Fire hazard

Starting is different when used in different equipment.

1. Check the engine oil level. See the How to Check/Add Oil section.
2. With Primer.(See Figure 1 on page 4)
   When starting a new engine for the first time,firmly push the red primer (in figure 1) five times.
   Then for all future starts, push the primer three times.
   Note: If engine runs out of fuel or has been stored for an extended period of time, it may be necessary to prime 5 times.
   Note: Priming is usually unnecessary when restarting a warm engine.
   Note: If you push the primer too many times, an excessive amount of fuel will flood the engine. This flooded condition will make the engine difficult to start.
3. With Brake L ever.(See Figure 1 on page 4)
   Move the flywheel brake lever to on position to release the flywheel brake.
4. With Choke Assembly.(See Figure 2 on page 4)
   Move the choke lever to the choke position.
   Note: Choke is usually unnecessary when restarting a warm engine.
5. With Engine Switch.(See Figure 3 on page 4)
   Turn the Engine switch to the ON position.
6. Firmly hold the starter cord handle. Pull the starter cord handle slowly until resistance is felt, the pull rapidly.

WARNING: Rapid retraction of the starter cord (kickback) will pull your hand and arm toward the 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.

How to Stop the Engine

WARNING

Gasoline and its vapors are extremely flammable and explosive.

Fire or explosion can cause severe burns or death.

1. With Brake Lever.(See Figure 1 on page 4)
   Release the flywheel brake lever to stop the engine.
2. With Engine Switch.(See Figure 3 on page 4)
   Push and hold the engine stop switch until the engine stops running.

Troubleshooting

Engine will not start

Out of fuel

. Add fuel

Fouled spark plug/engine fails to product spark

. Remove spark plug and clean it. Check the spacing on the electrode and set the gap to the correct dimension. See Maintenance Section. If plug is damaged, replace with a new spark plug.

. Ensure the spark plug is installed and wire is connected.

Warning:

. Do not crank engine with spark plug removed.

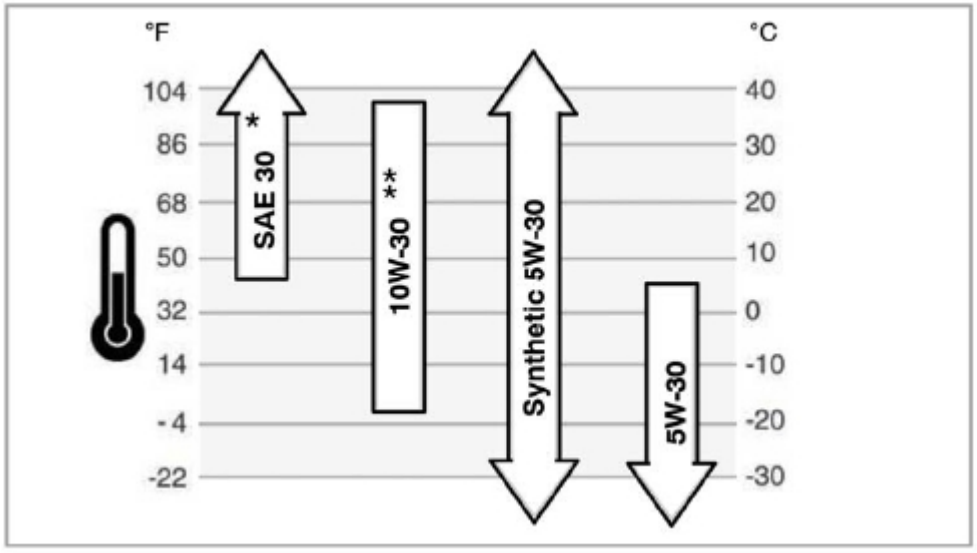
Oil

Oil Recommendations

. We recommend the use of our Warranty Certified oils for best performance. Other high-quality detergent oils are acceptable if classified for service SF, SG, SH. SJ or higher.

. Do not use special additives.

. Outdoor temperatures determine the proper oil viscosity for the engine. Use the chart to select the best viscosity for the outdoor temperature range expected.



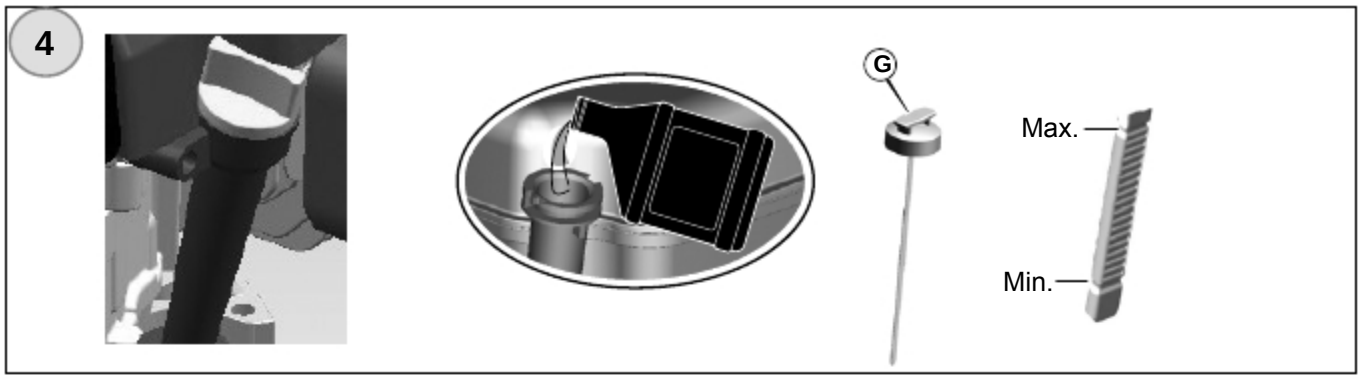
Note: Below 40 F (4 C) the use of SAE 30 will result in hard starting.
Above 80 F (27 C) the use of 10W-30 may cause increased oil consumption. Check oil level more frequently.

Before adding or checking the oil

· Place engine level.

· Clean the oil fill area of any debris.

How to Check/Add Oil – *Figure 4 on page 7*



1. Remove the dipstick (G) and swipe with a clean cloth (Figure 4).
2. Insert the dipstick into the filler neck without screwing it in.
3. Remove the dipstick and check the oil level. The oil level should be in between the MIN. and MAX. levels.
4. If low, add oil slowly into the engine oil fill tube (G). Do not overfill. After adding oil. wait one minute and then recheck the oil level.
5. Replace and tighten the dipstick.

Fuel Recommendations
Fuel must meet these requirements:

· Clean, fresh, unleaded gasoline.
· A minimum of 87 octane/87 AKI (91 RON). High altitude use, see below.
· Gasoline with up to 10% ethanol (gasohol) or up to 15% MTBE (methyl tertiary butyl ether) is acceptable.

CAUTION: Do not use unapproved Gasoline, such as E85. Do not mix oil in gasoline or modify the engine to run on alternate fuels. This will damage the engine components and void the engine warranty. To protect the fuel system from gum formation, mix a fuel stabilizer into the fuel. See ***Storage.*** All fuel is not the same. This engine is certified to operate on gasoline. The emissions control system for this engine is EM (Engine Modifications).

High Altitude

At altitudes over 5,000 feet (1524 meters), a minimum 85 octane/85 AKI (89 RON) gasoline is acceptable. To remain emissions compliant, high altitude adjustment is required. Operation without this adjustment will cause decreased performance, increased fuel consumption, and increased emissions. See a our Authorized Dealer for high altitude adjustment information.
Operation of the engine at altitudes below 2,500 feet (762 meters) with the high altitude kit is not recommended.

How to Add Fuel

WARNING

Gasoline and its vapors 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. Fill tank to approximately 1.5 inches (38 mm) below top of neck to allow for fuel expansion.
· Keep gasoline 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 spill, 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 gasoline. To allow for expansion of the gasoline, do not fill above the bottom of the fuel tank neck.
3. Reinstall the fuel cap.

Maintenance

Use only original equipment replacement parts. Other parts may not perform as well, may damage the unit, and may result in injury. In addition, use of other parts may void your warranty.

We recommend that you see any our agent for all maintenance and service of the engine and engine parts.

CAUTION: 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.
· Use only correct tools.
· Do not tamper with governor spring, links or other parts to increase engine speed.
· Replacement parts must be the same and installed in the same position as the original parts.
· 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 choke for spark with spark plug removed.

First 5 Hours of operation
• Change Oil
E very 8 Hours of operation or Daily
• Check engine oil level • Clean area around muffler and controls
E very 25 Hours of operation or Annually
• Clean air filter
E very 50 Hours of operation or Annually
• Change engine oil • Check muffler and spark arrester (If installed)
Annually
• Replace air filter • Replace spark plug • Clean air cooling system

Carburetor Adjustment

Never make adjustments to the carburetor. The carburetor was set at the factory to operate efficiently under most conditions. However, if adjustments are required, see any our Authorized Dealer for service.

CAUTION: The manufacturer of the equipment on which this engine is installed specifies the top speed at which the engine will be operated. **Do not exceed** this speed.

How to Replace the Spark Plug

Check the gap (A) with a wire gauge (B). If necessary, reset the gap. Install and tighten the spark plug to the recommended torque. For gap setting or torque, see the ***Specifications*** section.

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.

Inspect Muffler and Spark Arrester (if applicable)

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.

WARNING: Replacement parts must be the same and installed in the same position as the original parts or fire could result.

How to Service the Air Filter (see figure 1)

1. Remove the air cleaner outside cover (A). Be careful to prevent dirt and debris from falling into the air cleaner assembly.
2. Separate the Air Filter (A) from the Air Filter Housing (B).
3. Inspect the air filter. Clean dirty air filter with warm water and mild soap. Allow air filter to dry thoroughly before re-installation
4. Install the air filter assembly onto the carburetor and secure with screw.

Note: Do not use pressurized air or solvents to clean the filter. Pressurized air can damage the filter and solvents will dissolve the filter.

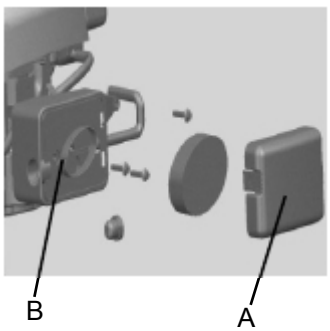


Figure 1

Figure 2

How to Remove Oil

Caution: 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 center, or dealer for safe disposal/recycling facilities.

Removing Oil

The oil must be drained from the Oil Drain Plug (See figure 2)

1. Remove the dipstick.
2. Please an approved container below the oil drain plug.
3. Remove the Oil drain plug and allow oil to the drain into the approved container.
4. Install Oil drain plug and wrench tighten.

WARNING: When you drain the oil from the oil drain plug, the fuel tank must be empty or fuel can leak out and result in fire or explosion. To empty the fuel tank, run engine until it stops from lack of fuel.

Storage

WARNING:

When storing fuel or equipment with fuel in tank:

- Store away from furnaces, stoves, water heaters, or other appliances that have a pilot light or other ignition source because they can ignite vapors.

When Transporting Equipment:

- Transport with fuel tank EMPTY or with fuel shut-off valve OFF.

The following precautions should be taken if storing your trimmer unit for a period exceeding 30 days, or for seasonal storage.

- While engine is still warm, change oil.
- Clean engine of surface debris, chaff or grass.
- Drain all fuel from fuel tank into proper receptacle for storage.
- Remove spark plug. Place 1 teaspoon or 5 ml. of oil into spark plug hole.
- Pull starter rope **slowly** 8-10 times to properly coat the cylinder bore and piston for storage. Replace spark plug and tighten. Any residual oil may burn off in subsequent starts. This may result in white smoke emission from muffler.
- This trimmer may be stored in a variety of positions. It is best to store in horizontal position with the spark plug up. Do not store or transport with the spark plug down.

***Note*:** Storing or transporting with the spark plug down will result in hard starting and/or engine smoking.

- Store in a clean dry area.
- When removing unit from storage, only use fresh gasoline. Perform operation checks (see maintenance schedule) before starting engine.

Specifications

Engine Specifications				
Model	DV98	DV140	DV173	DV196
Displacement	98cc	140cc	173cc	196cc
Bore	56mm (2.21 in.)	65mm (2.56 in.)	70mm (2.76 in.)	70mm (2.76 in.)
Stroke	40mm (1.57 in.)	42mm (1.65in)	45mm (1.77 in.)	51mm (2.00 in)
Oil Capacity	.4L (13.5 oz.)	.6L (20.3 oz)	.6L (20.3 oz)	.6L (20.3 oz)
Net Weight	8.5kg (18.7 lbs.)	13kg (28.7 lbs.)	14kg (30.9 lbs.)	14.5kg (31.9 lbs.)
Engine Specifications				
Model	DV98	DV140	DV173	DV196
Spark Plug Gap	0.6 - 0.8 mm (0.024 - 0.031 in)			
Spark Plug Torque	18 - 22 Nm (13.3 ft/lbs)			
Intake Valve Clearance	0.10 +/- 0.02 mm (0.0039 +/- 0.0008 in.)			
Exhaust Valve Clearance	0.15 +/- 0.02 mm (0.0059 +/- 0.0008 in.)			

****** Engine power will decrease 3.5% for each 1,000 feel (300 meters) above sea level and 1% for each 10°F (5.6°C) above 77°F (25°C). The engine will operate satisfactorily at an angle up to 15°. Refer to the equipment operator's manual for safe allowable operating limits on slopes.

We recommend that you see and our Authorized Dealer for all maintenance and service of the engine and engine parts. Use only genuine our parts.

Warranty Information

3 Year Warranty

All DuroMax/DuroStar Power Equipment warrant the original purchasers to a 3 Year Parts Warranty in the event of failure due to defects in electrical or mechanical components. Freight on any items submitted for replacement or repair under the Warranty are the responsibility of the equipment owner. This warranty is non-transferable and only valid to the original purchaser.

Warranty Exclusions

The DuroMax/DuroStar Power Equipment warranty does not cover repairs or returns when the fault is: Normal Wear and Tear, Installation Use or Maintenance Services, Cosmetic defects, Accessories, Failures due to acts of God or Natural Disasters, or problems related to/from after-market or non-OEM parts.

Warranty Limitations

DuroMax/DuroStar Power Equipment does not claim or hold any obligation to loss of time, freight charges, use of product, or any incidental damages from the use of this product. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

DuroMax Power Equipment

U.S. EPA AND CALIFORNIA EMISSIONS CONTROL WARRANTY STATEMENT
YOUR WARRANTY RIGHTS AND OBLIGATIONS

The U.S. Environmental Protection Agency (EPA), California Air Resources Board, and Imperial Industrial Supply Co. LTD. / DuroMax Power Equipment are pleased to explain the emissions control system's warranty on your 2017 small off-road engine. In California, new equipment that use small off-engines must be designed, built, and equipped to meet the State's stringent anti-smog standards. DuroMax Power Equipment must warrant the emissions control system on your small off-road engine for the period listed below provided there has been no abuse, neglect, or improper maintenance of your equipment.

Your emissions control system may include parts such as: carburetors or the fuel injection system, ignition system, catalytic converters, fuel tanks, valves, filters, clamps, connectors, and other associated components. Also, included may be hoses, belts, connectors, sensors, and other emission-related assemblies.

Where a warrantable condition exists, DuroMax Power Equipment will repair your small off-road engine at no cost to you including diagnosis, parts, and labor.

MANUFACTURER'S WARRANTY COVERAGE:

This emissions control system is warranted for two years. If any emissions-related part on your equipment is defective, the part will be repaired or replaced by DuroMax Power Equipment**.**

OWNER'S WARRANTY RESPONSIBILITIES:

- As the small off-road engine owner, you are responsible for performance of the required maintenance listed in your owner's manual. DuroMax Power Equipment recommends that you retain all receipts covering maintenance on your small off-road engine, but DuroMax Power Equipment cannot deny warranty solely for the lack of receipts or your failure to ensure the performance of all scheduled maintenance.
- As the small off-road engine owner, you should however be aware that the DuroMax Power Equipment may deny you warranty coverage if your small off-road engine or a part has failed due to abuse, neglect, or improper maintenance or unapproved modifications.
- You are responsible for presenting your small off-road engine to a DuroMax Power Equipment distribution center or service center as soon as the problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.
- If you have any questions regarding your warranty coverage, contact us at 800-629-4329 or email support@duromaxpowerequipment.com.

DEFECTS WARRANTY REQUIREMENTS:

The warranty period begins on the date the engine or equipment is delivered to an ultimate purchaser and extends for a period of Two Years.

DuroMax Power Equipment

GENERAL EMISSIONS WARRANTY COVERAGE:

DuroMax Power Equipment warrants to the ultimate purchaser and each subsequent owner that the engine or equipment is:

1. Designed, built, and equipped to conform with all applicable regulations adopted by the Air Resources Board; and
2. Free from defects in materials and workmanship that causes the failure of a warranted part for a period of two years.

The warranty on emissions-related parts will be interpreted as follows:

1. Any warranted part that is not scheduled for replacement as required maintenance in the Owner's Manual must be warranted for the warranty period stated above. If any such part fails during the period of warranty coverage, it must be repaired or replaced by the manufacturer according to Subsection (4) below. Any such part repaired or replaced under the warranty must be warranted for the remaining warranty period.
2. Any warranted part that is scheduled only for regular inspection in the Owner's Manual must be warranted for the warranty period stated above. A statement in such written instructions to the effect of "repair or replace as necessary" will not reduce the period of warranty coverage. Any such part repaired or replaced under warranty must be warranted for the remaining warranty period.
3. Any warranted part that is scheduled for replacement as required maintenance in the Owner's Manual must be warranted for the period prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part must be repaired or replaced by the engine manufacturer according to Subsection (4) below. Any such part repaired or replaced under warranty must be warranted for the remainder of the period prior to the first scheduled replacement point for the part.
4. Repair or replacement of any warranted part under the warranty must be performed at no charge to the owner at a warranty station.
5. Notwithstanding the provisions of Subsection (4) above, warranty services or repairs must be provided at all manufacturer distribution centers that are franchised to service the subject engines.
6. The owner must not be charged for diagnostic labor that leads to the determination that a warranted part is in fact defective, provided that such diagnostic work is performed at a warranty station.
7. The manufacturer is liable for damages to other engine components proximately caused by a failure under warranty of any warranted part.
8. Throughout the emissions warranty period stated above, the manufacturer must maintain a supply of warranted parts sufficient to meet the expected demand for such parts.
9. Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner.
    a. Such use will not reduce the warranty obligations of the manufacturer.
10. Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any nonexempt add-on or modified parts will be grounds for disallowing a warranty claim. The manufacturer will not be liable to warrant failures of warranted parts caused using a nonexempt add-on or modified part.
11. The manufacturer issuing the warranty shall provide any documents that describe that manufacturer's warranty procedures or policies within five working days of request by the Air Resources Board.

DuroMax Power Equipment

Exhaust Emission Warranty Parts List.

1. Fuel Metering System
    (i) Carburetor and internal parts (and/or pressure regulator or fuel injection system).
    (ii) Air/fuel ratio feedback and control system.
    (iii) Cold start enrichment system.
2. Air Induction System
    (i) Controlled hot air intake system.
    (ii) Intake manifold.
3. Ignition System
    (i) Spark Plugs.
    (ii) Magneto or electronic ignition system.
    (iii) Spark advance/retard system.
4. Air Injection System
    (i) Air pump or pulse valve.
    (ii) Valves affecting distribution of flow.
    (iii) Distribution manifold.
5. Catalyst or Thermal Reactor System
    (i) Catalytic converter.
    (ii) Thermal reactor.
    (iii) Exhaust manifold.
6. Particulate Controls
7. Traps, filters, precipitators, and any other device used to capture particulate emissions.
8. Electronic controls.
9. Vacuum, temperature, and time sensitive valves and switches.
10. Hoses, belts, connectors, and assemblies.
11. Evaporative Emission Warranty Part List
    (i) Fuel Tank*
    (ii) Fuel Cap
    (iii) Fuel Line
    (iv) Fuel Line Fittings
    (v) Clamps**
    (vi) Pressure Relief Valves**
    (vii) Control Valves**
    (viii) Control Solenoids**
    (ix) Electronic Controls**
    (x) Vacuum Control Diaphragms**
    (xi) Control Cables**
    (xii) Control Linkages**
    (xiii) Purge Valves
    (xiv) Vapor Hoses
    (xv) Liquid/Vapor Separator
    (xvi) Carbon Canister
    (xvii) Canister Mounting Brackets
    (xviii) Carburetor Purge Port Connector

*Note: The parts list for equipment less than or equal to 80 cc only includes the fuel tank.

**Note: As they relate to the evaporative emission control system.

DuroMax Power Equipment will furnish with each new engine written instructions for the maintenance and use of the engine by the owner.

DuroMax Power Equipment
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