

SOUTHLAND™ Operator's Manual **Gasoline Powered Blower** **25cc, 2 Cycle**

**MODEL Nos. S-HB-25150-E
S-HB-25150**
For Occasional Use Only

Look inside for:

	Page
Safety Definitions	1
Important Safety Information	2-3
Product Specifications	4
Parts & Features	4
Assembly	4-5
Operation	6-7
Routine Maintenance	7-8
Storage	8
Troubleshooting	9
Technical Service	9
Warranty	10-15



IMPORTANT:

Thank you for purchasing this Southland™ Blower.

Read and understand all warnings and instructions in this manual before operating this tool. Improper use of this tool can cause severe injury or death. Keep this manual for future reference.

Record the following for future reference:

Mfg. Date Code : _____

Date of Purchase: Attach a copy of your sales receipt.

Consumer Toll Free Number: 1-800-737-2112

Refer to the website for the electronic manual and parts book.
www.gardnerinc.com

WARNING

This product contains one or more chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.



If you have a question or problem...











CALL TOLL FREE: 1-800-737-2112

KEEP THIS MANUAL FOR FUTURE REFERENCE

Safety Definitions





• Save all instructions

Safety Warning Symbols:

	Indicates Warning.		Keep all by-standers at least 50 ft. (15 m) away.
	Read these instructions carefully.		This equipment can throw small objects at high speed causing personal injury. Inspect area where used and remove all foreign objects.
	Always wear eye protection that meets or exceeds the requirements of ANSI Z87.1. Wear hearing protection. Wear breathing protection.		Explosive material.
	Wear safety footwear.		Extremely hot surface. Do not touch a hot muffler, gear box or cylinder, you may get burned. These parts get extremely hot from operation and remain hot for a short time after the unit is turned off.
	Wear safety gloves.		
	Rotating impeller blades can cause severe injury.		




Important Safety Information

Control and Operating Symbols:

	Choke Control: Cold Start Run/Warm Start		Fuel Mixture: 40:1 (Unleaded Gas : 2 Cycle Oil)
	Fuel Primer: Press 6 times.		Ignition Switch: ON OFF

Safety Alert Symbols:

The information listed below should be read and understood by the operator. We utilize the symbols below to allow the reader to recognize important information about their safety.

 DANGER	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
 WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
 CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or equipment/damage property.

Important Safety Information

- Save all instructions

Before Operating Blower

1. READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE OPERATING Blower.

⚠ WARNING

Read and follow all warnings and safety instructions. Failure to do so can result in serious injury to you or bystanders.

2. Avoid Dangerous Environments
 - a. Do not operate Blower while under the influence of alcohol, medications, or drugs.
 - b. Do not operate Blower when you are tired.
 - c. Do not use this Blower if you are mentally or physically unable to operate safely.
3. Inspect Blower for damaged parts, and make sure all fasteners and guards are in place and secure. Replace any damaged parts.
4. Dress properly when operating Blower.
 - a. Always wear heavy long pants, boots, gloves, and a long-sleeve shirt.
 - b. Do not wear loose clothing or jewelry that can get caught in the rotating parts of the Blower.
 - c. Always wear gloves and substantial foot wear when working outside.
 - d. Always wear protective hair covering to contain long hair.
5. Always wear a face or dust mask if operation is dusty.
6. Always wear eye protection that meets or exceeds the requirements of ANSI Z87.1.
7. Always wear hearing protection which meets or exceeds ANSI standards.
8. Thoroughly inspect the area where the Blower is to be used and use rakes and booms to loosen debris before use.

⚠ WARNING

Your equipment can throw small objects at high speed causing personal injury or property damage.

9. In dusty conditions, slightly dampen surfaces or use mister attachment when water is available.

⚠ WARNING

This product contains chemicals known to the State of California to cause cancer or birth defects, or other reproductive harm.

While Operating Blower

1. Stay alert. Use common sense. Watch what you are doing.
2. Do not operate Blower if it is damaged or not securely and fully assembled.
3. Only well instructed adults should operate Blower. Never allow children to operate Blower.
4. Keep children away. Keep all bystanders at least 50 feet (15 meters) away.
5. Do not point the Blower nozzle in the direction of people or pets.
6. Use only for jobs explained in this manual. Do not use Blower for any job except that for which it is intended.
7. Maintain your balance and proper footing at all times. Do not overreach.
8. Always keep engine on the right hand side of your body.
9. Do not force Blower. It will do the job better and with less likelihood of a risk of injury at the rate for which it was designed.

⚠ DANGER

10. Never start or run the unit inside a closed room or building; breathing exhaust fumes can kill.

Important Safety Information (Continued)

- Save all instructions

While Operating Blower

▲ CAUTION

Prolonged exposure to vibrations through use of gasoline powered hand tools could cause blood vessel or nerve damage in fingers, hands, and joints of people prone to circulation disorders or abnormal swellings. Extensive use in cold weather has been linked to blood vessel damage in otherwise healthy people. If symptoms occur such as numbness, pain, loss of strength, change in skin color or texture, or loss of feeling in the fingers, hands, or joints, discontinue the use of this tool and seek medical attention.

Fuel Safety

1. Mix and pour fuel outdoors WHERE THERE ARE NO SPARKS OR FLAMES.
2. Use a container approved for gasoline.
3. Do not smoke or allow smoking near fuel or the Blower.
4. Avoid spilling fuel or oil. Wipe up all fuel spills and let the unit dry before using.
5. Move at least 10 feet (3 meters) away from fueling site before starting engine.
6. Stop engine and allow to cool before removing fuel cap. Remove fuel cap slowly. Do not refuel a hot engine. Do not refuel a running engine.

Maintenance & Storage of Blower

▲ WARNING

1. Stop the engine, and disconnect the spark plug before performing maintenance.
2. Maintain Blower with care. Inspect Blower periodically. If Blower is not working properly or damaged, have it repaired by a qualified service center.
3. Check for misalignment of moving parts, binding of moving parts, broken parts, mounting, and any other condition that may affect its operation.
4. Keep guards in place and in working order.
5. A guard or other part that is damaged should be properly repaired or replaced by a qualified service center.
6. Use only genuine Southland™ replacement parts and accessories. Use of any non-Southland™ parts or accessories could lead to injury, damage to the unit, and will void your warranty.
7. Do not remove or modify any parts. Removing or modifying parts could lead to injury, damage the Blower, and will void the warranty.
8. Keep handles dry, clean, and free from oil and grease.
9. Allow engine to cool and empty the fuel tank before storing or transporting in vehicle. Use up remaining fuel in the carburetor by starting the engine and letting it run until it stops.
10. When not in use, store Blower indoors in a dry location. Store Blower above the reach of children or in a locked area out of the reach of children.
11. Store unit and fuel in area where fuel vapors cannot reach sparks or open flames from water heaters, electric motors or switches, furnaces, etc.

Product Specifications

• Save all instructions

Engine	25 cc, 2 cycle	Fuel Mixture	40:1 (Gasoline: 2-Cycle Oil)
Idle Speed	3,500-4,000 RPM	Sound Pressure Values	79dB
Peak Air Velocity.....	150 mph	Spark Plug	Torch L8RTC
Air Volume	350 CFM		NGK - BPMR7A
Fuel Tank Capacity.....	20 oz (600 ml)		CHAMPION - CJ7Y
Fuel Type	Unleaded Gasoline – 87 Octane or higher		or equivalent
2-Cycle Oil Type	2-Cycle Oil that meets or exceeds	Net Weight	11.5 lbs (5.2 kg)
	JASO – FC Specifications		

Parts & Features

Fig. 1

1.	Ignition Switch	8.	Spark Plug
2.	Handle	9.	Fuel Primer Bulb
3.	Engine	10.	Choke
4.	Upper Tube	11.	Fuel Cap
5.	Nozzle Tube	12.	Air Filter Cover
6.	Recoil Starter Handle	13.	Throttle Lever
7.	Fuel Tank		

Assembly

Parts Included With The Packaged

- Upper Tube (1)
- Nozzle Tube (1)
- Screw (1)

 If you need assistance or find any parts missing, CALL TOLL FREE: 1-800-737-2112

- Screwdriver with Spark Plug Wrench
- 40:1 2-Cycle Engine Oil (3.2 fl. oz.)
- Operator's Manual

WARNING

Do not operate Blower if it is damaged or not securely and fully assembled.

Assembly (Continued)

• Save all instructions

Blower Assembly

⚠ WARNING

Blower tube installation affects both Blower balance and performance. The tube and nozzle must be installed correctly.

Never use the Blower without the upper tube and the nozzles correctly fitted to the Blower.

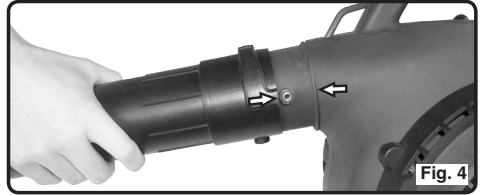
⚠ WARNING

Rotating impeller blades can cause severe injury! Stop the engine before installing or removing the Blower tubes. Never perform any maintenance or assembly procedures on this Blower while the engine is running.

1. Align the arrow on the upper tube with the arrow on the nozzle tube. (Fig. 2)
2. Slide the nozzle tube to the upper tube.
3. Turn the nozzle tube clockwise until a click is reached to secure the nozzle tube to the upper tube. (Fig. 3)
4. Align the arrow on the upper tube with the arrow on the Blower outlet. (Fig.4)
5. Slide the upper tube to the Blower outlet.
6. Turn the upper tube clockwise until a click is reached to secure the upper tube to the Blower outlet. (Fig.5)

Note: Position tube so that engraved writing "This Side Up" is in an upward position. (Fig. 6)

7. Tighten the screw, until the tube is secure. (Fig.7)



Operation

• Save all instructions

A Before Starting Engine:

Mixing Fuel / 2-Cycle Oil

▲ WARNING

Do not smoke or allow smoking near fuel or the Blower. Mix and pour fuel outdoors WHERE THERE ARE NO SPARKS OR FLAMES.

The 2-cycle engine on your Blower requires that fuel and 2-cycle engine oil be pre-mixed before adding to the Blower's fuel tank. To mix the fuel/ 2-cycle oil:

1. Use fresh unleaded gasoline with an octane rating of 87 or higher.

▲ CAUTION

Use of gasoline containing ethanol or methanol can damage Blower.

2. Always use 2-cycle oil that meets or exceeds JASO – FC specifications and is intended for mixing at a fuel/oil ratio of 40:1.
3. Do not use automotive or 2-cycle marine outboard oil. These will damage your Blower's engine and void the warranty.
4. Always mix the gasoline and 2-cycle oil in a container approved for gasoline. Never mix fuel directly in the Blower's fuel tank.
5. Follow instructions on 2-cycle oil container for mixing fuel. Mix gasoline and 2-cycle oil at a ratio of 40:1. A

mixture with a 40:1 ratio is obtained by mixing 1 gallon (4 liters) of gasoline with 3.2 ounces of oil (95 ml). After adding oil to gasoline, shake container momentarily to ensure proper mixing.

6. Mix only enough fuel for your immediate needs. Do not store pre-mixed fuel.
7. Stop engine and allow to cool before refueling.
8. To fill the Blower's fuel tank with the gasoline/ oil mixture, place the Blower upright on the ground or on a sturdy bench and wipe and any debris from around the fuel cap.
9. Remove fuel cap slowly and use a funnel to pour the mixture into the tank, and replace the fuel cap.
10. Avoid spilling fuel or oil. Wipe up all fuel spills.
11. Move at least 10 feet (3 meters) away from fueling site before starting engine.

B Starting Engine:

▲ WARNING

You MUST make sure the tubes are secure before using the unit.

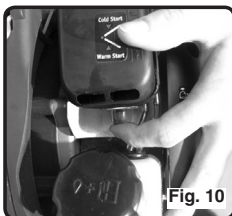
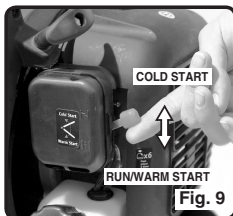
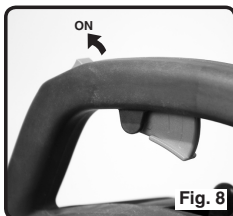
Cold Starting The Engine

1. Place the Blower on a flat surface.
2. Move the Ignition Switch to the "ON" position (Fig. 8)
3. Move the Choke Lever upwards to the "COLD START" position (Fig. 9).
4. Press the Primer Bulb slowly 6 times (see Fig. 10).
5. Pull the recoil starter handle sharply until the engine starts and runs (Fig. 11)
6. After engine starts and runs for 10-15 seconds, move Choke Lever to "RUN/WARM START" position.

Note: when the weather gets cold, please allow the engine to warm up at idle for longer period of time, before engaging to RUN/WARM START position.

Warm Starting The Engine

1. Place the Blower on a flat surface.
2. Move the Ignition Switch to the "ON" position (see Fig. 8)
3. With the Choke Lever in the "RUN/WARM START" position, pull the Recoil Starter Handle sharply until the engine starts and runs.



Operation (Continued)

• Save all instructions

B Starting Engine:

Starting A Flooded Engine

1. Place the Blower on a flat surface.
2. Move the Ignition Switch to the "ON" position.
3. With the Choke Lever in the "RUN/WARM START" position, hold the Throttle Lever fully depressed and pull the starter handle repeatedly until engine starts and runs. This could require pulling the starter handle many times, depending on how badly the unit is flooded.
4. If the engine still does not start, allow the unit to sit for about 30 minutes, and repeat steps 1-3.

If the unit still doesn't start, refer to the TROUBLESHOOTING section of this manual or:



If you need assistance or have any questions, CALL TOLL FREE: 1-800-737-2112

C Stopping The Blower:

1. Release the Throttle Lever and allow the engine to idle for a few moments.
2. Move the Ignition Switch to the "STOP" position.

D Engine Break-In Period:

During the first ten (10) hours of use, use the slowest engine speed which allows for effective usage and avoid operation at high engine speeds for extended periods of time. This will maximize the life and performance of your blower's engine. Maximum power will be achieved after the first ten (10) hours of engine operation.

Routine Maintenance

• Save all instructions

▲ WARNING

Disconnect the spark plug before performing maintenance except for carburetor adjustments.

A Air Filter:

Accumulated debris and dust in the air filter will reduce engine performance, increase fuel consumption, and increases the risk of engine damage. Clean the air filter every 5 hours of operation.

1. Before removing Air Filter Cover, brush away any loose dirt or debris on and around the filter cover.
2. To remove Air Filter Cover, press on its sides and lift off (Fig. 12).
3. Remove and clean foam filter.
 - Light surface dust can readily be removed by tapping the filter.
 - Heavy deposits should be washed out in soap and water. Squeeze out any remaining water and allow the filter to completely dry.

▲ WARNING

Never clean filter in gasoline or other flammable solvents.

4. Add a drop of thin oil to the filter and replace it.



Fig. 12

Routine Maintenance (Continued)

• Save all instructions

B Spark Plug:

Inspect the spark plug after every 10-15 hours of use; adjust spark plug gap and replace spark plug as necessary. Replace spark plug every year to maintain engine performance and easy starting.

To inspect or replace the Spark Plug:

1. Remove the insulated spark plug boot.
2. Use the spark plug wrench to remove the Spark Plug, by turning counter-clockwise.
3. Clean and adjust the spark plug gap to 0.024 – 0.028 in. (0.6 - 0.7mm).
4. Replace any worn plug with a recommended replacement (see **PRODUCT SPECIFICATIONS**. Clean and adjust the spark plug gap to 0.024 – 0.028 in. (0.6 - 0.7mm).
5. Install the Spark Plug finger tight in the cylinder head, then tighten firmly with the spark plug wrench.
6. Replace the insulated spark plug boot.

Storage

1. Allow engine to cool and empty the fuel tank before storing or transporting in vehicle. Use up remaining fuel in the carburetor by starting the engine and letting it run until it stops.
2. When not in use, store Blower indoors in a dry location. Store Blower above the reach of children or in a locked area out of the reach of children.
3. Store unit and fuel in area where fuel vapors cannot reach sparks or open flames from water heaters, electric motors or switches, furnaces, etc.
4. When preparing the Blower for storage or when Blower will not be used for 30 days or more:
 - a. Inspect and clean the Blower thoroughly.
 - b. Lightly oil all external metal surfaces.
 - c. Remove the spark plug, place a few drops of 2-cycle engine oil into the cylinder. Pull the recoil starter several times to distribute the oil. Replace the spark plug.
 - d. Inspect and clean air filter as required.

NOTE: To prevent fuel gum deposits in the Blowers carburetor and fuel system, it is acceptable to use fuel stabilizer. Follow the stabilizer manufacturer's instructions. Run the engine at least 5 minutes after adding stabilizer.

Troubleshooting

• Save all instructions

PROBLEM	POSSIBLE CAUSE(S)	SOLUTION(S)
Engine will not start.	<ol style="list-style-type: none"> 1. Ignition Switch in the "OFF" position. 2. Engine flooded. 3. Fuel Tank empty. 4. Spark Plug not firing. 5. Fuel not reaching carburetor. 6. Carburetor requires adjustment. 	<ol style="list-style-type: none"> 1. Move ignition switch to the ON position. 2. See Starting a Flooded Engine in OPERATION section. 3. Fill tank with correct fuel mixture. 4. Replace Spark Plug. 5. Check for kinked or split fuel line; repair or replace. 6. Contact a qualified service center.
Engine will not accelerate, lacks power or stalls.	<ol style="list-style-type: none"> 1. Choke lever in the "cold start" position. 2. Fuel not reaching carburetor. 3. Air filter dirty. 4. Spark plug fouled. 5. Carburetor requires adjustment. 6. Carbon build-up on muffler outlet screen. 7. Compression low. 	<ol style="list-style-type: none"> 1. Move choke lever to the "warm start/run" position. 2. Check for kinked or split fuel line; repair or replace. 3. Clean air filter. 4. Clean or replace plug 5. Contact a qualified service center. 6. Contact a qualified service center. 7. Contact a qualified service center.
Engine smokes excessively.	<ol style="list-style-type: none"> 1. Choke lever in the "cold start" position. 2. Fuel mixture incorrect. 3. Air filter dirty. 4. Carburetor requires adjustment. 	<ol style="list-style-type: none"> 1. Move choke lever to the "warm start/run" position. 2. Empty Fuel Tank and refill with correct fuel mixture. 3. Clean or replace air filter. 4. Contact a qualified service center.
Engine runs hot.	<ol style="list-style-type: none"> 1. Fuel mixture incorrect. 2. Spark Plug incorrect. 3. Carburetor requires adjustment. 4. Carbon build-up on muffler outlet screen. 	<ol style="list-style-type: none"> 1. See Mixing Fuel with 2-Cycle Oil in OPERATION section. 2. Replace with correct Spark Plug. 3. Contact a qualified service center. 4. Contact a qualified service center.
Engine will not idle properly.	<ol style="list-style-type: none"> 1. Carburetor requires adjustment. 2. Crankshaft seals worn. 3. Compression low. 	<ol style="list-style-type: none"> 1. Contact a qualified service center. 2. Contact a qualified service center. 3. Contact a qualified service center.

Technical Service

You may have further questions about assembling, operating, or maintaining this Blower. If so, you can contact our Technical Service Department at 1-800-737-2112 (English only). You may also write to:

MAT Engine Technologies, LLC
ATTN: Technical Service – METL
6700 Wildlife Way
Long Grove, IL 60047



**If you need assistance or have any questions,
 CALL TOLL FREE: 1-800-737-2112**

When contacting the Technical Service Department, have ready:

- Your Name
- Your Address
- Your Phone Number

- Model Number of Product
- Date of Purchase (include copy of receipt for written requests)

Warranty

• Save all instructions

A Southland™ Blower Limited Warranty

Always specify model number when contacting the factory.

We reserve the right to amend these specifications at any time without notice. The only warranty applicable is our standard written warranty. We make no other warranty, expressed or implied. **MAT Engine Technologies, LLC** warrants this Blower and any parts thereof, to be free from defects in material and workmanship for one year (90 days for reconditioned unit) from the date of first purchase from an authorized dealer, provided that the product has been properly maintained and operated in accordance with all applicable instructions. This warranty is extended only to the original retail purchaser. The bill of sales or proof of purchase must be presented at the time a claim is made under this warranty. This warranty does not cover commercial, industrial, or rental usage, nor does it apply to parts that are not in original condition because of normal wear and tear, or parts that fail or become damaged as a result of misuse, accident, lack of proper maintenance, tampering, or alteration. Travel, handling, transportation, and incidental costs associated with warranty repairs are not reimbursable under this warranty and are the responsibility of the owner. To the full extent allowed by the law of the jurisdiction that governs the sale of the product, this express warranty excludes any and all other expressed warranties and limits the duration of any and all implied warranties, including warranties of merchantability and fitness for a particular purpose to one year from the date of first purchase, and **MAT Engine Technologies, LLC's** liability is hereby limited to the purchase price of the product and **MAT Engine Technologies, LLC** shall not be liable for any other damages whatsoever including indirect, incidental, or consequential damages. Some states do not allow limitation of how long an implied warranty lasts or an exclusion or limitation of incidental or consequential damages, so the above limitation of damages may not apply to you. This warranty provides the original purchaser with specific rights.

For information regarding those rights, please consult the applicable state laws.

MAT Engine Technologies, LLC
ATTN: Technical Service – METL
6700 Wildlife Way
Long Grove, IL 60047
1-800-737-2112

B Federal and California Emissions Control Warranty Statement

This **MAT Engine Technologies, LLC (METL)** outdoor power equipment engine complies with the emissions regulations of:

Southland™ Model No.	Regulatory Agency
S-HB-25150-E	United States Environmental Protection Agency ("U.S. EPA")
S-HB-25150	State of California

To the extent there is any conflict between this Emissions Control Warranty and the **METL** Limited Warranty, this Emissions Control Warranty shall apply except where the **METL** Limited Warranty may provide a longer warranty period.

Please read your warranty rights and obligations carefully. Some sections of the warranty may not apply to the specific model you purchased. Unless specifically noted otherwise, the terms below shall apply to all Southland™ products covered within this manual.

YOUR WARRANTY RIGHTS AND OBLIGATIONS

State of California (Applies only to Model No. S-HB-25150):

The California Air Resources Board and **MAT Engine Technologies, LLC (METL)** are pleased to explain the emissions control system warranty on your 2010 small off-road engine (SORE). In California, new SOREs must be designed, built and equipped to meet the State's stringent anti-smog standards. **METL** must warrant the emissions control system on your SOREs for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your SOREs.

Warranty (Continued)

- Save all instructions

Other U.S. States / Territories:

In other areas of the United States, your outdoor power equipment engine must be designed, built and equipped so as to conform at the time of sale to U.S. EPA emissions standards for small off-road spark ignition engines at or below 19 kilowatts.

All of the United States:

Your emission control system may include parts such as the carburetor or fuel-injection system, fuel lines, the ignition system, and catalytic converter. Also included may be hoses, belts, clamps, connectors and other emission-related assemblies.

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

Manufacturer's Warranty Coverage:

The emissions control system is warranted for one year. If any emissions-related part on your engine is defective, the part will be repaired or replaced by **METL**.

Owner's Warranty Responsibilities:

- As the SORE owner, you are responsible for the performance of the required maintenance listed in your owner's manual. **METL** recommends that you retain all receipts covering maintenance on your SORE, but **METL** can not deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.
- As the SORE owner, you should however be aware that **METL** may deny your warranty coverage if your SORE or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.
- You are responsible for presenting your SORE to a distribution center or service center authorized by **METL** 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, you should contact METL customer service:



If you need assistance or have any questions,
CALL TOLL FREE: 1-800-737-2112

Warranty (Continued)

- Save all instructions

Defects Warranty Coverage:

METL warrants to the original purchaser and each subsequent purchaser that the small off-road engine (SORE) (1) has been designed, built and equipped so as to conform with all applicable regulations; and (2) is free from defects in materials and workmanship that cause the failure of a warranted part to conform with those regulations as may be applicable to the terms and conditions stated below.

- (a) The warranty period begins on the date the engine is first purchased. The warranty period is one year.
- (b) Subject to certain conditions and exclusions as stated below, the warranty on emissions related parts is as follows:
- (1) Any warranted part that is not scheduled for replacement as required maintenance in your **Operator's Manual** is warranted for the warranty period stated above. If the part fails during the period of warranty coverage, the part will be repaired or replaced by **METL** according to Subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period.
 - (2) Any warranted part that is scheduled only for regular inspection in your **Operator's Manual** is warranted for the warranty period stated above. Any such part repaired or replaced under warranty will be warranted for the remaining warranty period.
 - (3) Any warranted part that is scheduled for replacement as required maintenance in your **Operator's Manual** is warranted for the period of time before the first scheduled replacement date for that part. If the part fails before the first scheduled replacement, the part will be repaired or replaced by **METL** according to Subsection (4) below. Any such part repaired or replaced under warranty will 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 provisions herein must be performed at a warranty station at no charge to the owner.
 - (5) Notwithstanding the provisions herein, warranty services or repair will be provided at all of our distribution centers that are franchised to service the subject engines.
 - (6) The engine 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) **METL** is liable for damages to other engine components proximately caused by a failure under warranty of any warranted part.
 - (8) Throughout the engine warranty period stated above, **METL** will 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. Such use will not reduce the warranty obligations of **METL**.
 - (10) Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts by the original or subsequent purchaser will be grounds for disallowing a warranty claims. **METL** will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.
 - (11) The manufacturer issuing the warranty shall provide any documents that describe that warranty procedures or policies within five working days or requested by the Air Resources Board.

Warranty (Continued)

- Save all instructions

Emission Warranty Parts List:

The repair or replacement of any warranted part otherwise eligible for warranty coverage may be excluded from such warranty coverage if **METL** demonstrates that the engine has been abused, neglected, or improperly maintained, and that such abuse, neglect, or improper maintenance was the direct cause of the need for repair or replacement of the part. That notwithstanding, any adjustment of a component that has a factory installed, and properly operating, adjustment limiting device is still eligible for warranty coverage. The following emissions warranty parts list is covered.

(1) Fuel Metering System:

- (a) Gasoline carburetor assembly and its internal components (if so equipped)
- (b) Fuel filter (if so equipped)
- (c) Carburetor gaskets
- (d) Fuel pump (if so equipped)

(2) Air Induction System including:

- (a) Intake pipe/manifold
- (b) Air cleaner

(3) Ignition System including:

- (a) Spark plug
- (b) Ignition module/coil

(4) Catalytic Muffler Assembly (if so equipped) including:

- (a) Muffler gasket
- (b) Exhaust manifold

(5) Crankcase Breather Assembly including:

- (a) Breather connection tube.

(6) Miscellaneous items Used in Above Systems including:

- (a) Switches
- (b) Hoses, belts, connectors, and assemblies.

Warranty (Continued)

- Save all instructions

C California Evaporative Emission Control Warranty Statement

YOUR WARRANTY RIGHTS AND OBLIGATIONS

Applies only to Model No. S-HB-25150:

The California Air Resources Board and **METL** are pleased to explain the evaporative emission control system's warranty on your 2010 model year small off-road engine (SORE). In California, new SOREs must be designed, built and equipped to meet the State's stringent anti-smog standards. **METL** must warrant the evaporative emission control system on your SOREs for the period of time listed below provided there has been no abuse, neglect or improper maintenance of your SOREs.

Your evaporative emission control system may include parts such as: carburetors, fuel tanks, fuel lines, fuel caps, valves, canisters, filters, vapor hoses, clamps, connectors, and other associated components.

Manufacturer's Warranty Coverage:

This evaporative emission control system is warranted for one year. If any evaporative emission-related part on your equipment is defective, the part will be repaired or replaced by **METL**.

Owner's Warranty Responsibilities:

- As the SORE owner, you are responsible for performance of the required maintenance listed in your owner's manual. **METL** recommends that you retain all receipts covering maintenance on your SOREs, but **METL** can not deny warranty solely for the lack of receipts.
- As the SORE owner, you should however be aware that **METL** may deny you warranty coverage if your SOREs or a part have failed due to abuse, neglect, or improper maintenance or unapproved modifications.
- You are responsible for presenting your SOREs to distribution center or service center authorized by **METL** 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, you should contact METL customer service:



If you need assistance or have any questions,
CALL TOLL FREE: 1-800-737-2112

Warranty (Continued)

• Save all instructions

Defects Warranty Coverage:

- (a) The warranty period begins on the date the engine is purchased.
- (b) General Evaporative Emissions Warranty Coverage. The engine must be warranted to the ultimate purchaser and any subsequent owner that the evaporative emission control system when installed was:
- (1) Designed, built, and equipped so as to conform with all applicable regulations; and
 - (2) Free from defects in materials and workmanship that causes the failure of a warranted part for a period of two years.
- (c) The warranty on evaporative emissions-related parts will be interpreted as follows:
- (1) Any warranted part that is not scheduled for replacement as required maintenance in the written instructions must be warranted for the warranty period defined in subsection (b) (2).
If any such part fails during the period of warranty coverage, it must be repaired or replaced by **METL** issuing the warranty. Any such part repaired or replaced under the warranty must be warranted for a time not less than the remaining warranty period.
 - (2) Any warranted part that is scheduled only for regular inspection in the written instructions must be warranted for the warranty period defined in subsection (b) (2). 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 a time not less than the remaining warranty period.
 - (3) Any warranted part that is scheduled for replacement as required maintenance in the written instructions must be warranted for the period of time 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 **METL**. Any such part repaired or replaced under warranty must be warranted for a time not less than 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 provisions of this article 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 distribution centers that are franchised to service the subject engines or equipment.
 - (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) Throughout the evaporative emission control system's warranty period set out in subsection (b) (2), **METL** issuing the warranty must maintain a supply of warranted parts sufficient to meet the expected demand for such parts.
 - (8) Manufacturer approved replacement parts must be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of the manufacturer issuing the warranty.
 - (9) The use of any add-on or modified parts will be grounds for disallowing a warranty claim made in accordance with this article. The manufacturer issuing the warranty will not be liable under this Article to warrant failures of warranted parts caused by the use of an add-on or modified part.
 - (10) **METL** issuing the warranty shall provide any documents that describe the warranty procedures or policies within five working days of request by the Executive Officer.

Evaporative Emission Warranty Parts List:

- (1) Fuel Tank.