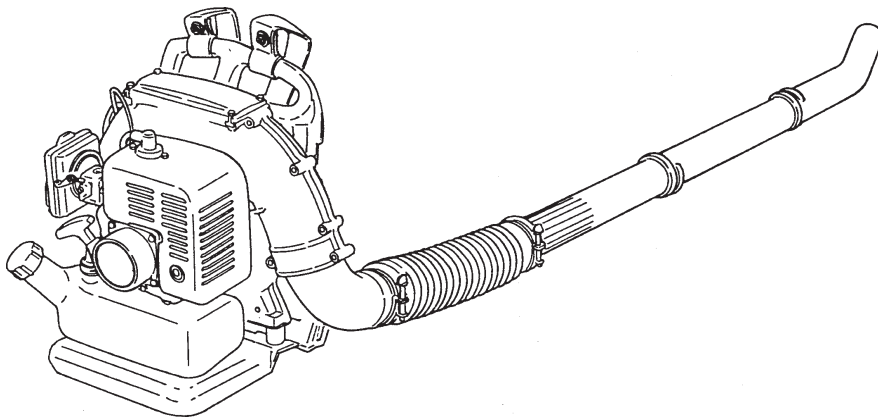


JOHN DEERE

OWNER'S MANUAL



BP40
UT08055

Warning: FOR SAFE OPERATION, READ THESE INSTRUCTIONS BEFORE USING YOUR BLOWER. FOLLOW ALL INSTRUCTIONS FOR SAFETY.

SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS!

OPERATION

- **DO NOT ALLOW CHILDREN OR UNTRAINED INDIVIDUALS TO USE THIS UNIT.**
- Never start or run this blower inside a closed area; breathing exhaust fumes can kill.
- Never operate unit without a spark arrestor screen (located inside the muffler).
- Make sure unit is properly assembled and in good operating condition. Do not operate without guard(s) in place.
- **Do not attempt to install or remove attachments, make repairs or remove obstruction from the fan housing while engine is running.**
- **PRODUCT USERS ON UNITED STATES FOREST SERVICE LAND, AND IN SOME STATES, MUST COMPLY WITH FIRE PREVENTION REGULATIONS. THIS PRODUCT IS EQUIPPED WITH A SPARK ARRESTOR; HOWEVER, OTHER USER REQUIREMENTS MAY APPLY. CHECK WITH YOUR FEDERAL, STATE, OR LOCAL AUTHORITIES.**
- **FOLLOW THESE INSTRUCTIONS TO REDUCE THE RISK OF INJURY:**
 - **WEAR FULL EYE AND HEARING PROTECTION WHILE OPERATING THIS BLOWER.**
 - Wear heavy long pants, shoes, and gloves.
 - Do not wear loose clothing or jewelry.
 - Secure long hair so it is above the shoulder.
 - Keep all bystanders, children, and pets at least 50 feet (15m) away.
 - Do not operate this blower when tired, ill, or under the influence of alcohol, drugs, or medication.
 - Do not operate in poor lighting.
 - Do not point blower in direction of people or pets.
 - Keep firm footing and balance. Do not overreach.
 - Keep all parts of your body away from hot surfaces.
 - Wear a face mask in dusty conditions to reduce the risk of injury associated with the inhalation of dust.
- **ALWAYS STOP ENGINE AND REMOVE SPARK PLUG WIRE BEFORE MAKING ANY ADJUSTMENTS OR REPAIRS EXCEPT CARBURETOR ADJUSTMENTS.**

MAINTENANCE

- Use manufacturer's replacement parts. Failure to do so may cause poor performance and possible injury.
- Maintain the unit per maintenance instructions in the Owner's Manual.
- Inspect unit before each use for loose fasteners, fuel leaks, etc. Replace damaged parts.
- Before storing, allow the engine to cool.
- Empty fuel tank and restrain the unit from moving before transporting in a vehicle.

REFUELING (DO NOT SMOKE!)

- Mix and store fuel in a container approved for gasoline.
- Mix fuel outdoors where there are no sparks or flames.
- Select bare ground, stop engine, and allow to cool before refueling.
- Loosen fuel cap slowly to release pressure and to keep fuel from escaping around the cap.
- Wipe spilled fuel from the unit. Move 10 feet away from refueling site before starting engine.



Indicates Warning, Danger, and Caution.



Read all Safety, Operating and Maintenance Instructions.



Wear eye and hearing protection when operating this equipment.



Risk of long hair being drawn into air inlet.

TECHNICAL SPECIFICATIONS

Specifications are subject to change without notice.

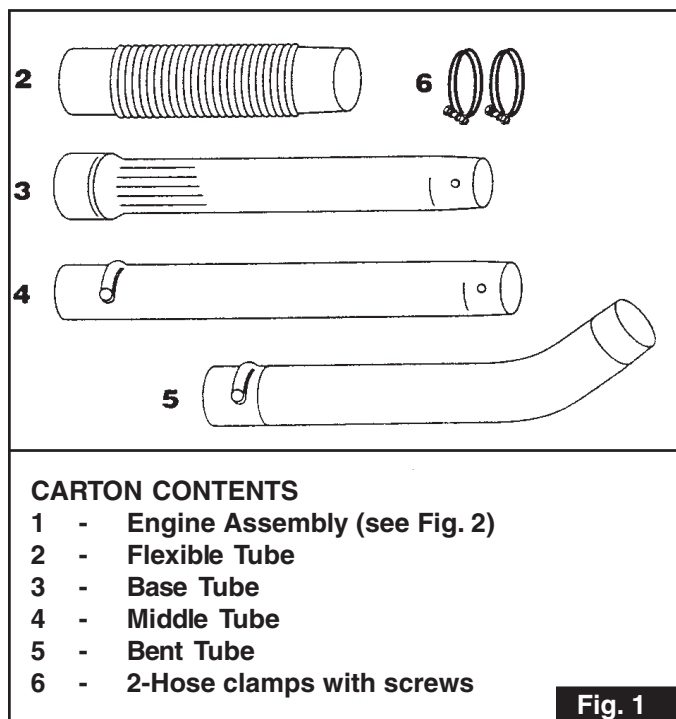
Dimensions:	L x W X H = 350 x 430 x 380mm (13.7" x 16.9" x 15.0")
Weight, dry:	8.0 kg (17.7 lbs.)
Fuel capacity:	1.6 liters (0.4 gal.)
Engine type:	Air cooled-two stroke
Displacement:	40.2cc
Ignition system:	Transistorized electronic ignition
Carburetor:	Diaphragm type
Spark plug:	NGK BM7A
Spark plug gap:	0.6 to 0.7 mm (.024" to .028")
Starter:	Automatic recoil
Max. air speed:	112m/sec. (251 mph)
Fuel Mix:	Gasoline oil mixture - 50:1
Noise level:	69.5 db(a) at 7,000 rpm from 50 ft.

ASSEMBLY INSTRUCTIONS

Unpacking Your Unit

Your unit has been carefully packed at the factory to prevent damage during shipping and storage. Carefully unpack the carton as follows:

1. Remove contents from the carton.
2. Check parts against the list in Fig. 1
3. Examine parts for damage.
4. Notify your dealer immediately if a part is missing or damaged.



Assembling Extension Tubes and Shoulder Straps (Fig.2)

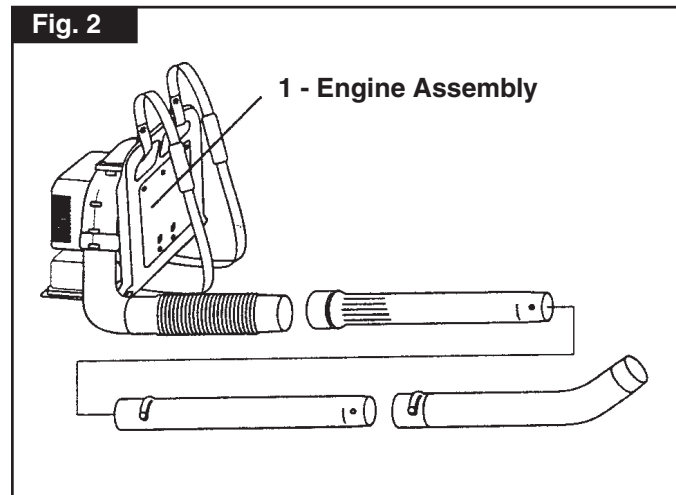
1. Slip one wire clamp onto each end of the flexible tube.
2. Install flexible tube onto the output tube on the blower housing.

3. Slide the grooved end of the base tube into the open end of the flexible tube and securely tighten the screws on the clamps.

Note: The base tube is designed to swivel allowing air flow to be directed. Be certain that base tube, middle tube and bent tube are perfectly inserted up to each stopper in order to prevent slipping.

4. Install the middle tube into the base tube and the bent tube in the middle tube.
5. Attach Shoulder Straps - adjust straps to fit your body.

Fig. 2



FUELING INSTRUCTIONS

Gasoline

1. Handle gasoline with care.
2. Do not store gasoline near an open flame, such as a water heater, as it is highly flammable.
3. Refuel before starting work.
4. Do not refuel a hot engine.
5. Avoid spilling fuel or oil. Always wipe unit dry of fuel before using.
6. Move at least 10 feet (3 meters) away from the fueling point before starting engine.

THIS ENGINE IS CERTIFIED TO OPERATE ON UNLEADED GASOLINE INTENDED FOR AUTOMOTIVE USE. Mix JOHN DEERE Premium Exact Mix™ oil 50:1 with gasoline according to the instructions on the package. If JOHN DEERE oil is not available, use a high quality 2-cycle engine oil mixed at 4 oz. per gallon.

Thoroughly mix the gasoline and 2-cycle oil before pouring the fuel mix into the engine's fuel tank.



CAUTION

- The fuel tank may be under pressure. Remove the cap slowly to avoid spurting of fuel.
- When preparing fuel mixture, mix only the amount needed for the job you are to do. Do not use a fuel mixture that has been stored longer than two (2) months. Fuel mixture stored longer than this will cause hard starting and poor performance. If fuel mix has been stored longer than this time, it should be removed and refilled with a fresh mixture.
- Use only a good grade of gasoline.

DO NOT USE:

- Automotive Oil - as it does not have proper additives for 2-cycle engines and could cause damage.
- Alcohol blended fuels. (Call Gasohol or using ethanol or methanol.)

Fueling Your Unit

1. Fill 7/8 of the tank with fuel without spilling.
2. Wipe off any spilled fuel with a dry cloth.
3. Tighten fuel cap securely.

OPERATING INSTRUCTIONS

Starting and Stopping

1. Lay blower on a flat bare surface. Move switch to on position.
2. Open the throttle lever halfway (Fig. 3).
3. Push the priming pump.
With the throttle lever halfway, push the priming pump slowly several times until the fuel comes out of the overflow tube. When the overflow comes, stop pushing the priming pump.
NOTE: A fuel overflow caused by pushing the priming pump is made so as to return the fuel into the fuel tank. There is no fear of flooding the engine by pushing the priming pump more than enough to get the engine started.
4. Move choke lever to choke position (Fig. 4).
5. Pull starter until engine tries to run. (No more than 6 pulls.) (Fig. 6, page 5)
6. Move choke lever to half choke position.
7. Pull starter until engine runs. (Fig. 6, page 5)
8. Run engine 30 to 45 seconds on half choke to warm up. Move choke lever to run position. Move throttle lever to idle position until ready to use (Fig. 3).

TO STOP: Move ignition switch to stop position.

Fig. 3

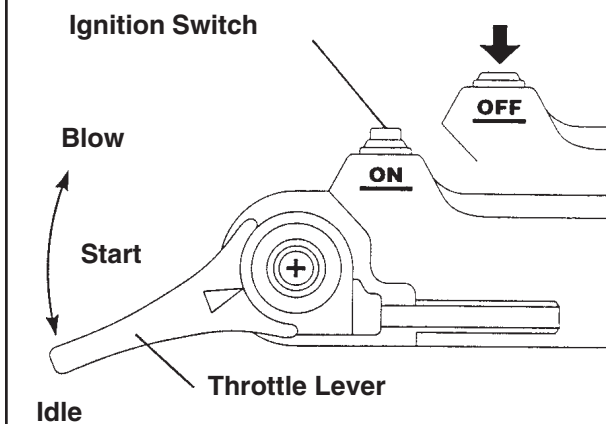


Fig. 4

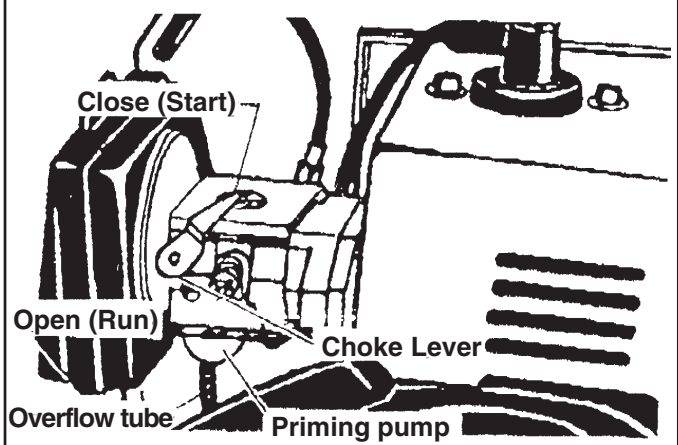
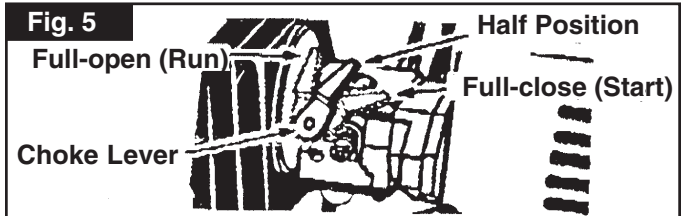


Fig. 5



CAUTION

- Do not pull the starter rope to the end.
- Rewind the rope slowly.



Fig. 6

Operating the Blower

1. Adjust shoulder straps correctly to make the machine fit your body.
2. The velocity of air stream can be controlled from a gentle breeze to a high-speed blast by the throttle lever.
3. Select the best speed for each application of the blower. Example: Low speed for blowing dry leaves, and high speed for wet leaves.

• IMPORTANT •

- Do not operate in unventilated areas.
- Do not allow bystanders in work area.
- Always wear proper clothing.
- Always wear safety glasses and a face filter mask.
- Wear ear protectors.
- Do not touch muffler, spark plug, or rotating parts.

MAINTENANCE INSTRUCTIONS

Daily Maintenance

- Always check for efficient and safe operation.
- Remove dirt from blower.
- Tighten bolts if they are loose.
- Replace damaged parts.
- Always use recommended manufacturer's replacement parts.

Air Cleaner (Fig. 7)

1. Remove air cleaner cover and take out air filter.
Note: Accumulated dust on the air filter will reduce engine efficiency and increase fuel consumption.
2. Wash air filter in mild detergent and water, then dry the filter well.
3. Put a few drops of oil on the foam filter. Squeeze out excess oil.

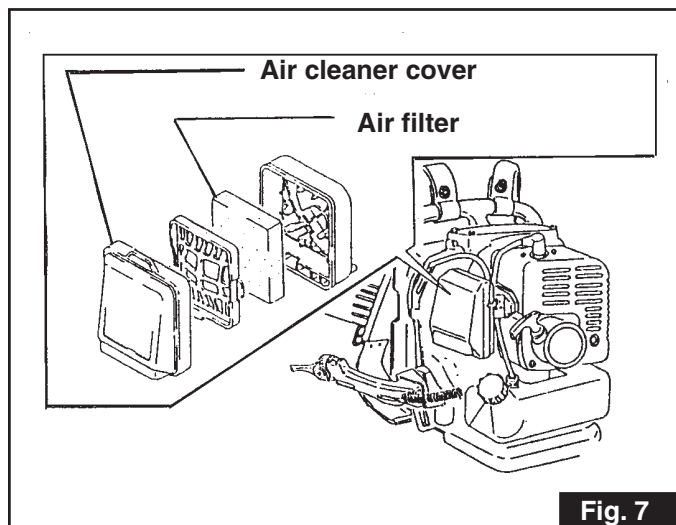


Fig. 7

CAUTION

Do not use gasoline or flammable solvent to clean the air filter! It can cause a fire.

STORAGE - (3 Months or longer)

1. Drain all fuel from the tank into a container approved for gasoline. Run engine until it stops.
2. Clean all foreign material from the blower. Store it in a well-ventilated place that is inaccessible to children. Keep away from corrosive agents such as garden chemicals and de-icing salts.
3. Abide by all federal and local regulations for the safe storage and handling of gasoline. Excess fuel should be used in other 2-cycle engine powered equipment.

ENGINE ADJUSTMENTS

Adjustment of Carburetor

1. Adjust the idle speed with the idle adjusting screw. Turning clockwise will increase idle speed and counter-clockwise will reduce idle speed (Fig. 8).
2. Idling speed must be adjusted to the minimum constant speed.

Spark Plug (Fig. 9)

1. Clean or replace the plug if fouled with oily black deposits.
2. Replace the plug if the center electrode is rounded at the end or if the ground electrode is worn.
3. Adjust the gap 0.6 - 0.7mm (.024 - .028). (Recommended spark plug is a GM 190036.)

Muffler and Exhaust Port (Fig. 10)

In the event that the engine should lose power and overheat, the muffler should be removed and checked for excessive deposits. Carbon build up in the exhaust port is normal, but should be removed. Remove carbon deposits from the muffler flange area with a wooden scraper; similarly scrape carbon from spark arrestor screen, wash in solvent and blow dry.

Fig. 8

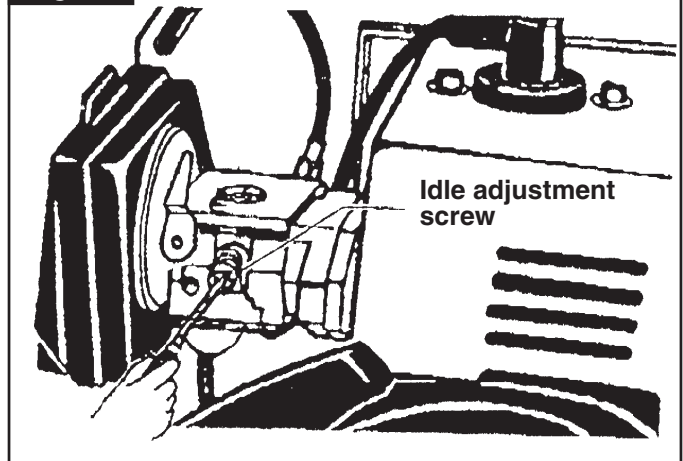


Fig. 9

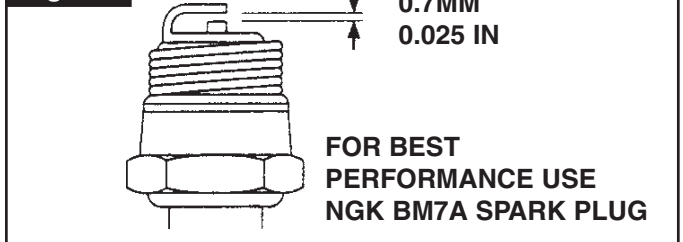
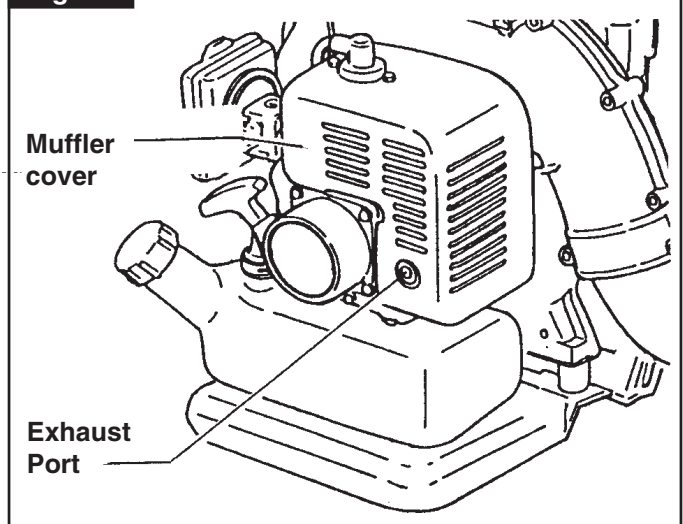


Fig. 10



TROUBLE SHOOTING CHART

Classification	Probable Cause	Solution
1. Engine fails to start		
Spark plug	1. Spark plug electrodes are wet. 2. Spark plug electrodes are contaminated with carbon. 3. Spark plug insulating material is found cracked. 4. Spark plug gap distance is excessively long or short. 5. Spark plug electrodes are burnt.	Dry. Clean electrodes. Replace spark plug. Adjust the distance to .65mm or .026 in. Replace spark plug.
Proper compression and fuel is supplied	1. Fuel is too rich. 2. Improper fuel is used.	Check choke operation. Adjust throttle lever to high speed. Replace with good fuel.
No fuel to carburetor	1. Fuel tank is empty. 2. Plugged fuel line. 3. Fuel filter is blocked with dirt or water. 4. Suction pipe, carburetor, etc. is loose.	Refill tank. Open or replace. Clean or replace. Tighten.
2. Engine lacks power		
Miscellaneous	1. Loose fuel pipe fitting. 2. Air lead at intake manifold or carburetor. 3. Water is mixed in fuel. 4. Muffler is plugged with carbon deposit. 5. Air cleaner is plugged.	Fasten fitting, etc. securely. Replace packing or fasten join securely. Replace with good fuel. Disassemble muffler and clean. Clean.
Overheating	Fan cover, cylinder fin clearance, etc. are clogged with dirt.	Clean.
Engine has abnormal noise (knocking)	1. Use of improper fuel. 2. Combustion chamber is contaminated with carbon deposit.	Replace with specified fuel. Clean combustion chamber.
3. Abrupt stop of engine from normal running condition		
Engine stops suddenly	Miscellaneous	Return to an Auth. John Deere Dealer
Engine stops after gradually slowing down	1. Shortage of fuel. 2. Water is mixed in the fuel. 3. Incorrect or no oil in fuel.	Refill tank. Drain fuel and fill with fresh fuel. Return to an Auth. John Deere Dealer
4. Engine does not stop		
Electric system	Defective stop button.	Return to an Auth. John Deere Dealer.

CAUTION

READ OPERATING PRECAUTIONS

WARNING

ALWAYS WEAR SAFETY GOGGLES

ALWAYS WEAR APPROVED DUST MASK

KEEP ALL BYSTANDERS 50 FT. (15m) AWAY AT ALL TIMES

To insure maximum performance and safe operation, read, and understand this manual before the operating unit. Any service situation requiring a trained technician, return the equipment to an authorized John Deere servicing dealer.

JOHN DEERE - LIMITED WARRANTY

The manufacturer warrants to the original retail purchaser that this Product is free from defects in material and workmanship and agrees to repair or replace, at manufacturer's discretion, any defective Product free of charge within these time periods from the date of purchase:

- **Two years, if the Product is used for personal, family, or household use;**
- **90 days, if the Product is used for any other purpose, such as commercial or rental use.**

This warranty is not transferable and does not cover damage resulting from defects other than in material or workmanship, or damage caused by unreasonable use, including the failure to provide reasonable and necessary maintenance. Also, the warranty obligations do not apply to conditions resulting from misuse, alteration or accident. In addition, this warranty does not cover general check-ups on electrical equipment, tune-ups on gasoline engines, or replacement of non-defective parts (such as electrical brushes, cables, plugs, spark plugs, filters, starter ropes, etc.) that may wear and need to be replaced with reasonable use within the warranty period or which may require replacement in connection with normal maintenance. This warranty applies only to Products sold within the United States of America, the District of Columbia, Canada, Mexico, the Commonwealth of Puerto Rico, the Virgin Islands, Guam, the Canal Zone, or American Samoa.

SAVE YOUR SALES SLIP

Proof of purchase in the form of your dated sales receipt, cash register slip, etc. showing the serial number and the model of your Product will be required before our dealers can perform warranty service on the Product. You must at your own expense, arrange to deliver or ship the Product for warranty repairs and arrange for pickup or return of the Product after repairs have been made.

This warranty does not apply to any trade accessory, engine, or electric motor which is separately warranted by another manufacturer and not manufactured by the manufacturer.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES. ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY OR OTHERWISE, APPLICABLE TO THIS PRODUCT, SHALL BE LIMITED IN DURATION TO THE DURATION OF THIS LIMITED WARRANTY. THE MANUFACTURER SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL, OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

HOW TO OBTAIN WARRANTY SERVICE

Warranty service can be obtained from a JOHN DEERE dealer authorized to make warranty repairs. If you need warranty service, check first with the dealer from whom you purchased the Product. **FOR WARRANTY SERVICE INFORMATION OUTSIDE THE USA AND CANADA, PLEASE CONTACT YOUR LOCAL JOHN DEERE DEALER.**

The manufacturer will not make any reimbursements for warranty service, except to JOHN DEERE dealers authorized to make warranty repairs. You must present your sales receipt when making any claim for warranty service.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

This warranty is given by John Deere Consumer Products, Inc., Post Office Box 7047, Charlotte, North Carolina 28241.

JOHN DEERE CONSUMER PRODUCTS, INC. LIMITED WARRANTY
CALIFORNIA EMISSION CONTROL SYSTEMS
LAWN and GARDEN and UTILITY ENGINES

The California Air Resources Board and John Deere Consumer Products, Inc., (Hereinafter "Homelite") are pleased to explain the emission Control Systems Warranty on your new John Deere Consumer Products, Inc. Lawn and Garden and Utility engine produced after January 1, 1995. In California, new Lawn and Garden and Utility engines produced after January 1, 1995 must be designed, built and equipped to meet the state's stringent anti-smog standards. John Deere Consumer Products, Inc. must warrant the emission control system on your Lawn and Garden and Utility engine for the period of time listed below provided there has been no abuse, neglect or improper maintenance of your Lawn and Garden and Utility engine. Your emission control system may include parts such as the carburetor or fuel injection system and the ignition system. Also included may be hoses, belts, connectors and other emission related assemblies that are a part of the Lawn and Garden and Utility engine. Where a warrantable condition exists, John Deere Consumer Products, Inc. will repair your Lawn and Garden and Utility engine at no cost to you, including diagnosis (if the diagnostic work is performed at a John Deere Consumer Products, Inc. Lawn and Garden and Utility engine dealer), parts and labor.

OWNER'S WARRANTY RESPONSIBILITIES. The following obligations must be fulfilled by the owner to maintain the validity of the John Deere Consumer Products, Inc. California Emission Systems Warranty:

- (a) As the Lawn and Garden and Utility engine owner, you are responsible for the performance of the required maintenance listed in your owner's manual. John Deere Consumer Products, Inc. recommends that you retain all receipts covering maintenance on your Lawn and Garden and Utility engine, but John Deere Consumer Products, Inc. cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.
- (b) You are responsible for presenting your Lawn and Garden and Utility engine to an authorized John Deere Consumer Products, Inc. Lawn and Garden and Utility engine dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days..
- (c) As the Lawn and Garden and Utility engine owner, you should also be aware that John Deere Consumer Products, Inc. may deny you warranty coverage if your Lawn and Garden and Utility engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.
- (d) If you have any questions regarding your warranty rights and responsibilities, you should contact a John Deere Customer Service Representative at 1-704-588-3200.

1. **COVERAGE.** John Deere Consumer Products, Inc. warrants to the initial owner, and each subsequent purchaser that the Lawn and Garden and Utility engine is free from defects in materials and workmanship which cause the failure of a warranted part for a period of two years. John Deere Consumer Products, Inc. is liable for damages to other engine components caused by the failure of a warranted part still under warranty. The 1995 and later Lawn and Garden and Utility engines are warranted for two years. If any emission-related part on your engine is defective, the part will be repaired or replaced by John Deere Consumer Products, Inc.. This warranty time period shall begin on the date the Lawn and Garden and Utility engine is delivered to the initial retail purchaser, or on the date the Lawn and Garden and Utility engine is first placed in service.

Warranty defects shall be remedied during customary business hours at any authorized John Deere Consumer Products, Inc. Lawn and Garden and Utility engine dealer located within the United States of America. Any manufacturer approved replacement part may be used in the performance of any warranty maintenance or repairs on emission related parts, and must be provided without charge to the owner if the part is still under warranty. Any part or parts replaced under this warranty shall become the property of John Deere Consumer Products, Inc..

The emissions related warranted parts are specifically defined by the California Air Resources Board's Emission Warranty Parts List. These warranted parts are: carburetor and internal parts, fuel injection system, spark advance/retard system, cold start enrichment system, magneto or electronic ignition system, fuel filter element, air cleaner element, and spark plugs if failure occurs prior to the first required scheduled replacement, hoses, clamps, fittings, gaskets, sealing devices, mounting hardware and tubing used directly in these parts. Since emission related parts may vary slightly from model to model, certain models may not contain all of these parts and certain models may contain functionally equivalent parts.

2. **LIMITATIONS.** This Emission Control Systems Warranty shall not cover any of the following:

- (a) Repair or replacement required as a result of (i) misuse or neglect, (ii) lack of required maintenance, (iii) repairs improperly performed or replacements improperly installed, (iv) use of replacement parts or accessories not conforming to John Deere Consumer Products, Inc. specifications which adversely affect performance and/or durability, (v) alterations or modifications not recommended or approved in writing by John Deere Consumer Products, Inc..
- (b) Replacement of parts and other services and adjustments necessary for required maintenance at and after the first scheduled replacement point.

3. **LIMITED LIABILITY.**

- (a) The liability of John Deere Consumer Products, Inc. under this Emission Control Systems Warranty is limited solely to the remedying of defects in materials or workmanship by any authorized John Deere Consumer Products, Inc. Lawn and Garden and Utility engine dealer at its place of business during customary business hours. This warranty does not cover inconvenience or loss of use of the Lawn and Garden and Utility engine, or transportation of the Lawn and Garden and Utility engine to or from the John Deere Consumer Products, Inc. Lawn and Garden and Utility engine dealer.

JOHN DEERE CONSUMER PRODUCTS, INC. SHALL NOT BE LIABLE FOR ANY OTHER EXPENSE, LOSS OR DAMAGE, WHETHER DIRECT, INCIDENTAL, CONSEQUENTIAL (EXCEPTION LISTED UNDER COVERAGE) OR EXEMPLARY ARISING IN CONNECTION WITH THE SALE OR USE OF OR INABILITY TO USE THE JOHN DEERE CONSUMER PRODUCTS, INC. LAWN AND GARDEN AND UTILITY ENGINE FOR ANY PURPOSE.

- (b) **NO EXPRESS EMISSION CONTROL SYSTEMS WARRANTY IS GIVEN BY JOHN DEERE CONSUMER PRODUCTS, INC. WITH RESPECT TO THE JOHN DEERE CONSUMER PRODUCTS, INC. LAWN AND GARDEN AND UTILITY ENGINE EXCEPT AS SPECIFICALLY SET FORTH HEREIN. ANY EMISSION CONTROL SYSTEMS WARRANTY IMPLIED BY LAW, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS EXPRESSLY LIMITED TO THE EMISSION CONTROL SYSTEMS WARRANTY TERMS SET FORTH HEREIN. THE FOREGOING STATEMENTS OF WARRANTY ARE EXCLUSIVE AND IN LIEU OF ALL OTHER REMEDIES.**

- (c) No dealer is authorized to modify this John Deere Consumer Products, Inc. Limited California Emission Control Systems Warranty.
- (d) John Deere Consumer Products, Inc. is not liable for parts which are not genuine John Deere Consumer Products, Inc. parts except when genuine John Deere Consumer Products, Inc. parts cause damage to non-John Deere Consumer Products, Inc. parts.

4. **LEGAL RIGHTS. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS IN THE STATE OF CALIFORNIA.**

5. **THIS WARRANTY IS IN ADDITION TO THE JOHN DEERE CONSUMER PRODUCTS, INC. LIMITED ENGINE WARRANTY.**

WARNING

Always remove the spark plug cap from the spark plug when servicing the engine to prevent accidental starting.

MAINTENANCE	INTERVAL				
	Daily	First 20 hours	Every 20 hours	Every 50 hours	Every 100 hours
Check and replenish fuel.	•				
Check for fuel leakage.	•				
Check for missing and/or looseness of bolts, nuts and screws.	•				
Clean fuel filter.			•		
* Clean air filter element.			•		
Tighten bolts and nuts.		•		•	
Clean spark plug and adjust electrode gap.				•	
* Remove dust and dirt from cylinder fins.				•	
J Remove carbon deposits on piston head and inside cylinder.				•	
J Remove carbon deposits in the exhaust pipe or muffler				•	
J Clean net of spark arrester (if equipped).				•	
J Check the sliding portion of crankshaft, connecting rod etc.					•
J Fuel tube.	It is recommended to replace every 3 years.				

Note: The service intervals are to be used as a guide. Service to be performed more frequently as necessary by operating condition.

J : Service to be performed by an authorized John Deere engine dealer.

*** :** Service more frequently under dusty conditions.

NOTES

JOHN DEERE

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Telephone (704) 588 - 3200