





Aerator Owner's Manual PL2501SPH & PL2501SPV

Beginning Serial #: 0032618001 U.S. Patent #: 6892821

Original InstructionsIMPORTANT- READ CAREFULLY BEFORE USE AND KEEP FOR FUTURE REFERENCE

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Specifications

15°	15°	Maximum Operating Slope
38" (0.97 m)	38" (0.97 m)	Height
35" (0.89 m)	35" (0.89 m)	Width
67" (1.7 m)	67" (1.7 m)	Length
435lb (197.3kg)	435lb (197.3kg)	Total Unit Weight
0.63 qt. (0.58 L)	0.63 qt. (0.58 L)	Engine Oil Capacity
3.3 qt. (3.1 L)	3.3 qt. (3.1 L)	Engine Fuel Capacity
12V3	GX160UT2HX2	Engine Model No.
Briggs and Stratton Vanguard	Honda GX160 w/Gearbox	Engine
PL2501SPV	PL2501SPH	

Intended Use

This machine is designed for aerating established lawns and large grass covered areas. The machine should not be used for any other purpose than that stated above.

DO NOT OPERATE IF EXCESSIVE VIBRATION OCCURS! If excessive vibration occurs, shut engine off immediately and check for damaged or worn tine crank, loose crank bearnings or tines, loose engine or lodged debris. To remove debris from the machine, see the machine specific trouble shooting section.

Note: See parts list for proper bolt torque and specifications.

Safety

PROPOSITION 65 STATEMENT



This product can expose you to chemicals including gasoline engine exhaust, which is known to the State of California to cause cancer, and carbon monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Warning and Instruction Labels

The labels shown below were installed on your BILLY GOAT® Aerator. If any labels are damaged or missing, replace them before operating this equipment. Item numbers from the Illustrated Parts List and part numbers are provided for convenience in ordering replacement labels. The correct position for each label may be determined by referring to the Figure and Item numbers shown.



DECAL, WARNING, HAND IN BELT, ENG. ONLY P/N 5103184

Belt Serviceability

belt servicing complete Manual for Operator's



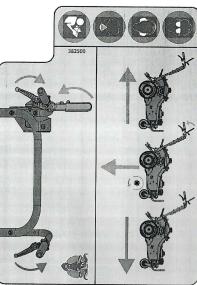
DECAL, BELT SERVICE P/N 382502



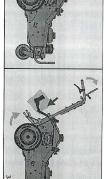


LEVER OUT: DRIVE ENABLED

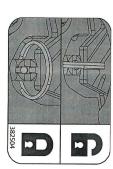
DECAL, BI PASS FUNCTION P/N 382503



DECAL, OP INFO LEFT P/N 382500



DECAL, OP INFO RIGHT P/N 382501



DECAL, CASTER LOCK FUNCTION P/N 382504

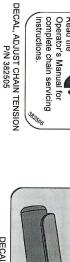
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Warning and Instruction Labels Continued

tension within first 10 hrs. Adjusting Chain Tension Adjust chain



Operator's Manual for complete chain servicing instructions. Read the

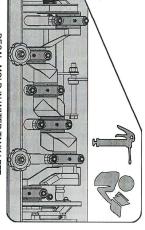




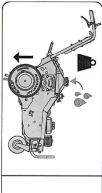
DECAL, NO CLUTCH P/N 382509

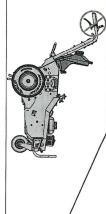


DECAL, T2V PLUG & SOIL P/N 382508



DECAL, MOLD IN WATER TANK LEFT





DECAL, MOLD IN WATER TANK RIGHT

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Engine Labels - Honda





Engine Labels - Vanguard









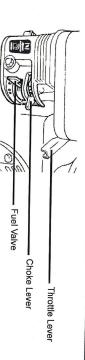








Engine Controls



Packing Checklist

Your Billy Goat is shipped from the factory in one carton with the handles and cables detached

Read all safety instructions before assembling unit.

Take caution when removing the unit from the box.

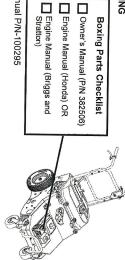
A TY PUT OIL IN ENGINE BEFORE STARTING

PARTS BAG & LITERATURE ASSY

- Warranty card P/N- 400972
- Owner's Manual P/N- 382506

- Declaration of Conformity P/N-381503

- General Safety and Warnings Renovation Manual P/N-100295



Operation

STARTING ENGINE

See engine manufacturer's instructions for type and amount of oil and gasoline used. Engine must be level when checking and filling oil and gasoline.

ENGINE SPEED	Controlled by lever on the engine. Under normal conditions, operate at the minimum throttle speed to accomplish your task.
ON/OFF SWITCH	Set the On/Off switch to the on setting.
FUEL VALVE	Move fuel valve to "ON" position. (Honda: Located below the air cleaner on the engine.)
СНОКЕ	Engage the choke when starting a cold engine. (Honda: Located below the air cleaner on the engine.)
THROTTLE	Move the throttle control lever on the engine to fast position. Pull starting rope to start engine

If your unit fails to start, check trouble shooting section in operator's manual and also see engine

NOTE: Honda engines are equipped with a low oil sensor to prevent engine damage. When it senses a low oil condition (i.e. unit is operating or sitting on a steep slope) the engine shuts down. The low oil condition must be corrected before the engine can be restarted. See the engine owner's manual for more informamust be corrected before the engine can be restarted. See the engine owner's manual for more informamust be corrected before the engine can be restarted.

AERATING OPERATION

NOTE: NEVER PARK THIS UNIT ON A SLOPE OF ANY KIND. Always keep tines in the up position when parking the unit.

away from the work area.	
clutch and depress the foot pedal) before transporting	
Be sure to raise tines out of the ground (disengage the	TRANSPORTING
control to continue aerating.	
the next run. Re-engage the clutch and forward speed	
control lever to reverse the machine into position to make	
ground before lifting), then squeeze the left-hand speed	
to the transport (ensure tines are completely out of the	
clutch lever and depress the foot pedal to return the tines	
the next run. If a 3-point turn is desired, disengage the	
forward speed control and clutch lever engaged to make	
aerating run, turn the machine around while keeping the	
This machine has in-ground turning. At the end of an	TURNING
Remember to only engage in reverse with the tines up.	
The harder you squeeze, the faster the machine will go.	
motion and the left-hand speed control lever for reverse.	
Squeeze the right-hand speed control lever for forward	ENGAGING DRIVE

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Operation

TIPS

- MOW Mow the lawn to its normal cut height.
- WATER For the best performance and maximum tine penetration the lawn should be thoroughly watered
 the day before aeration.
- INSPECT Check the lawn before beginning work. Remove all rocks, wire, string, or other objects that
 can present a hazard during work prior to starting.
- IDENTIFY Mark all fixed objects to be avoided during work, such as sprinkler heads, water valves, buried cables, or clothes line anchors, etc.
- SLOPES Do not operate the aerator on steep slopes (exceeding 15°). Use extreme caution when operating on any sloped surface. For lesser sloped areas operate the unit, traversing up and down at a 45° angle to the slope rather than straight across. Extended operation on steep slopes can cause engine damage.

NOTE: Honda engines are equipped with a low oil sensor to prevent engine damage. When it senses a low oil condition (i.e. unit is operating or sitting on a steep slope) the engine shuts down. The low oil condition must be corrected before the engine can be restarted. See the engine owner's manual for more information. For increased wheel traction, fill the on-board tank with water (approximately five gallons).

Maintenance

PERIODIC MAINTENANCE

Periodic maintenance should be performed at the following intervals:

Maintenance Operation	Every Use	Every 10	Every Use Every 10 Every 50 Every 100	Every 100
Inspect for loose, worn or damaged parts	•			
Check engine oil*				
Inspect belt for wear				
Engine (See engine manual)	•			
Grease Cam bearings (recommend using Almagard #3752)		•		
Thoroughly clean all debris from unit and tines	•			
Replace tine bushings				•
Grease shaft bearings and caster wheel bearings				

*ENGINE MUST BE LEVEL WHEN CHECKING OR FILLING OIL

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Troubleshooting

	Damaged, loose, or broken clutch	
dealer.	 Loose or damaged pulleys. 	
· Contact a qualified servicing	Worn drive belt.	
 See maintenance on pages 9-21 of this manual. 	Belt drive out of adjustment.	clutch is engaged.
	Tropped	Unit does not move when
 Contact an engine servicing dealer for engine problems. 		
 Inspect clutch cable for loose connection or damage. 		
 Pull spark plug wire and remove debris. 	 lension on tine drive belt. Engine problem. 	over
Choos origine and add engine on		
· Check angine and add anding		
 Work at 45 degrees to the slope. Move up and down instead of across the slope. 	 Working on too steep of a slope. Not enough oil in the engine. 	Engine stalls or labors when aerating
 Tighten all loose bolts and nuts. 	 Loose engine pulley 	
tines.	Loose engine bolts.	
 Replace any damaged or missing 	 Loose handle bolts. 	
Stop work immediately!	Damaged or missing tines.	Abnormal Vibration
	 Engine oil level too low (Honda only) 	
	Dirty air cleaner.	
*Check and fill engine oil.	 Spark plug wire disconnected. 	
contact a qualified service person.	Bad or old gasoline	
 Clean or replace air cleaner or 	Out of gasoline.	
 Connect spark plug wire. 	 Engine not in full choke position. 	
choke position, and gasoline.	 Throttle in off position. 	
Check stop switches, throttle.	Stop switch off.	Engine will not start.
Solution(s)	· securio oduec(a)	

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