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MANUAL PREVIEW

Gehl
Operator's Manual
HL2500
Loader

Operator's Manual

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GE-O-HL2500

HL 2500

HydraCat® Loader



Owner's Manual

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HL2500 - INTRODUCTION

Mr. Owner:

Your decision to purchase Gehl equipment is a wise one. You have made a sound and lasting investment. Gehl Company has been building quality equipment for well over a century. Our entire manufacturing and marketing philosophy is built upon quality. The quality built into Gehl products assure you the performance and reliability you need to make a profit. Your authorized Gehl HydraCat Dealer is equipped to service your Gehl equipment. They maintain genuine Gehl service parts.

All service parts should be obtained from or ordered through your Gehl dealer. Give complete information when ordering service parts. The model number and serial number should always be given. Numbers for the HL2500 are stamped on a plate located on the Left side of the Upper Frame Cross Member. Record numbers in space provided as a handy record for quick reference.

GEHL	
MODEL NO.	SERIAL NO.
HL2500	
GEHL COMPANY WEST BEND, WIS. U.S.A.	

"Right" and "Left" are determined from a position sitting on the seat and looking forward. From this position, the Ignition Starter Switch is on the Right. "Front" is the leading side and "Rear" is the trailing side when the unit is traveling forward.

Gehl Company reserves the right to make changes or improvements in the design or construction of any part without incurring the obligation to install such changes on any unit previously delivered.

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HL2500 - SPECIFICATIONS

Lift Capacity	800 lbs. full height with two counter weights	Engine	ONAN NH/MS 22.5 BHP at 3000 RPM
Bucket Capacity	6.5 cu. ft. and up quick-switch standard	Fuel	gasoline
Travel Speed	0-7 MPH, infinite variable	Cooling	air cooled with engine shroud
Speed and Directional Control	Single "T" Bar	Crankcase Capacity	4 quarts
Lift and Tilt Control	Single "T" Bar	Electrical	12 volt alternator
Drive System	dual Sundstrand Hydro-Transmission driving through gear and chain reduction	Starting	enclosed electric
Hydraulic System	engine driven Borg-Warner gear pump wear compensated, 7.25 gpm at 3000 RPM, 2000 PSI capacity	Air Cleaner	dry type cartridge
Valving	Lift and Tilt with full float detent on lift, 20 GPM capacity	Fuel Capacity	6½ U.S. gallon
Cylinders	Lift, double-acting 2 bore x 1 rod tilt, double-acting 2½ bore x 1 rod	Structure	unitized welded high tensile steel plate construction with integral belly-pan. Booms are box-tubed high tensile steel
Filtration	disposable spin-on cartridge type 10 micron element	Tires	7:00 x 13, 6 ply construction grip type tread design
Hydraulic Cooler	all steel construction	Seat	upholstered, extra wide form-fit bucket type with seat belt
Reservoir	9½ gallon capacity	Shipping Weight	2350 lb. less bucket
System Pressures	hydraulics, 1850 PSI relief setting, hydro-statics, designed for wheel slip at maximum load	Optional Equipment	Buckets 6.5 and up cu. ft. capacity Counterweights Electric Lights Over-head Guard Scarifier LP Gas

(SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE)

HL2500 - OPERATION

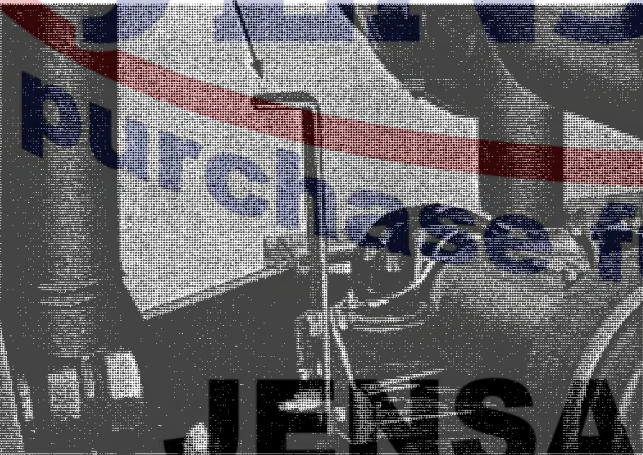
The Choke Control is located directly behind the Driver's Seat on side of the Carburetor.

In the event of cold weather starting, turn the Choke Control Lever to close the Choke. After the Engine starts, open the Choke Control.



The Hand Throttle is located directly behind the Driver's Seat and is attached to the Engine Blower Housing.

The Throttle is hand operated and controls the vehicle Engine speed. The Engine operates at the maximum governed speed when the Throttle is fully opened. When the Throttle is closed, the Engine operates at the pre-determined idle speed.



The Ignition and Starter are controlled with one Switch.



Turn key to the right and ignition is "on". Turn key farther right and the Starter will engage. Release the key, the Starter will disengage and the Switch will return to "on" position.

The Accessory Ammeter indicates whether the Battery is being charged or discharged. The Ammeter Needle should register zero when the Engine is not running and charge when the Engine Alternator is charging the Battery or zero when the Battery is fully charged.

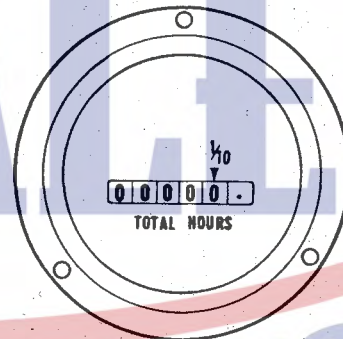
HOURLMETER

The Engine Hourmeter indicates the total hours of operation of the Engine in tenths of an hour to a maximum of 9,999.9 hours.

The Hourmeter provides a true record where hours of operation are important such as:

1. How long since oil was changed?
2. How long since the filter was changed?
3. How long since unit was lubricated?
4. How many hours has equipment run?
5. How long did it take to do a job?

Red numbers on the Meter indicate tenths of hours.



After 9999.9 hours, the Meter will repeat automatically.

The Seat Belt is located and installed as are conventional Automobile Seat Belts.



Be seated with the Seat Belt fastened prior to starting Engine. BE SURE the Seat Support is secure. Never enter or leave the vehicle while Engine is running. DO NOT start the Engine when not seated in the Driver's Seat.

Prior to starting the Engine, the operator must become familiar with the purpose and location of the Controls and Instruments as described in the preceding paragraphs.

- a. Check to be certain Control Levers are in neutral position.
- b. Turn the Key in the Key Switch to start the Engine.

NOTE: If necessary, use the Choke Control (5) to assist in starting.

NOTE: The Starting Motor must not be operated for more than a 30-second interval. If the Engine fails to start within this period of time, wait 10 or 15 seconds before attempting again. If Engine does not start within a reasonable time, refer to STARTING DIFFICULTIES in the Onan instruction book included with this manual.

HL2500 - SERVICE

The following contain the periodic service inspection procedures to be performed at the intervals designated. All inspections of assemblies, subassemblies, and parts must include any supporting members and connections, and must determine that the unit is in good condition, securely mounted, or requires repair or replacement.

	Before Use	Daily	Weekly	Monthly
Vehicle Appearance:				
Inspect entire vehicle for loose guards, loose or missing bolts and nuts.	X	X		
Lubricate hydraulic pressure grease fittings.			X	
Engine Assembly:				
Check oil level in crankcase.	X	X		
Air Cleaner.	X	X		
Engine mounting and V-belt drive.	X	X		
<i>NOTE: See Engine Service - Maintenance Bulletin For Additional Maintenance Instructions.</i>				
Fuel System:				
Inspect fuel lines and connections.	X	X		
Fuel supply level.	X	X		
Fuel filter.	X		X	
Battery:				
Check battery mountings and electrolyte level.	X	X		
Check terminal post and battery connections.	X		X	
Axle Assemblies:				
Inspect bearing mountings on frame, repack annually.	X		X	
Check wheel nuts.	X	X		
Drive chain tightness, after 10 hours initial operation.			X	
Hydro-Transmissions:				
Check V-belt tension, V-belt bearing mounting on left-hand Hydro-Transmission.	X	X		
Hydraulic filter, change after 6-10 hours initial operation, or as required.				X
Auxiliary Hydraulic System:				
Inspect hydraulic system for leaks, fitting tightness, hose wear on exterior.	X		X	
Inspect lift and tilt cylinders or smoothness.	X		X	
Check oil level in hydraulic reservoir.	X		X	

This section contains instructions for the maintenance and repair of the assemblies used on the Front End Loader.

BATTERY SERVICING

Adding Water To Battery: The water in the Battery Electrolyte solution evaporates at high temperatures or with excessive charging rates. Inspect the Electrolyte level and add distilled water, when necessary, to bring the Electrolyte level to the split ring.

Battery Cleaning: The top of the Battery must be kept clean. Tighten the vent plugs and clean the Battery with a brush dipped in an alkaline solution such as ammonia or a solution of bicarbonate of soda and water. After the foaming action stops, flush the top of the Battery with clean water. If the terminals and cable clamps are corroded, disconnect the cables and clean in the same manner as described above.

CHECKING ENGINE OIL LEVEL

IMPORTANT: Engine Oil Level must be checked daily to prevent "freezing" of the pistons and bearings.

With the Engine stopped and standing in a horizontal position, pull out Dipstick, wipe clean with a lint free cloth, Reinsert Dipstick and push in as far as it will go. Turn and pull Dipstick "out". The Dipstick should have a coating of oil extending to the upper mark. If the oil coating is below the upper mark, oil must be added. Do not overfill.

CHAIN DRIVE ADJUSTMENT

Loosen Bolts and take-up Idler Drive until Chain is taught. Adjust after 10 hours of operation and check periodically as required.

Example of proper Chain tension: Use a "Bumper Jack" or equivalent to raise Idler until machine is raised as required.



DRIVE BELT ADJUSTMENT

The Drive Belt must be kept at proper tension and in alignment at all times. To take-up Belt slack to the proper

operating tension, loosen Engine Mounting Bolts slightly. Then turn Adjustment Screw. The belt will be at proper tension when belt deflection is 5/8" when 10 to 12 lbs. pressure is applied across entire width of the belt midway between the drive and driven sheaves. **IMPORTANT:** Tighten Engine Mounting Bolts before starting the Engine.



REPLACING HYDRAULIC FILTER

The Hydraulic Oil Filter must be changed after 6-10 hours of initial operation of machine from factory. This precaution insures long trouble free life of Hydro-Transmissions. Hydraulic Filter should be changed periodically, depending upon machine operating conditions. Dusty, dry conditions require more frequent filter changes. When control of transmissions become sluggish, this condition is an indication of a Hydraulic Filter change. The less contamination of foreign particles in the oil will result in an extremely long Hydro-Transmission life. When Filter Element needs replacing, order part number 048959.



SERVICING THE AIR CLEANER

Proper maintenance of the Air Cleaner is extremely important. Negligence of regular routing maintenance will result in reduced Engine life.

Allowing the Element to become plugged with dirt will restrict the intake of air into the Engine. Inspect the Element for tiny holes or tears which would permit particles of dust or dirt to enter the Engine.