

GEHL

SL7810E

Form No.
917245/
EP0310
English

SKID-STEER LOADERS



Operator's Manual

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL


During Operation

- Machine stability is affected by: the load being carried, the height of the load, machine speed, abrupt control movements and driving over uneven terrain. **DISREGARDING ANY OF THESE FACTORS CAN CAUSE THE LOADER TO TIP, THROWING THE OPERATOR OUT OF THE SEAT OR LOADER, RESULTING IN DEATH OR SERIOUS INJURY.** Therefore: ALWAYS operate with the seatbelt fastened and the restraint bar lowered. Do not exceed the machine's Rated Operating Load. Carry the load low. Move the controls smoothly and gradually, and operate at speeds appropriate for the conditions.
- When operating on inclines or ramps, always travel with the heavier end of the loader toward the top of the incline for additional stability.
- Do not raise or drop a loaded bucket or fork suddenly. Abrupt movements under load can cause serious instability.
- Never activate the float function with the bucket or attachment loaded or raised, because this will cause the arm to lower rapidly.
- Do not drive too close to an excavation or ditch; be sure that the surrounding ground has adequate strength to support the weight of the loader and the load.
- Never carry riders. Do not allow others to ride on the machine or attachments, because they could fall or cause an accident.
- Always look to the rear before backing up the skid-steer loader.
- Operate the controls only from the operator's seat.
- Always keep hands and feet inside the operator's compartment while operating the machine.
- New operators must operate the loader in an open area away from bystanders. Practice with the controls until the loader can be operated safely and efficiently.
- Always wear safety goggles, ear and head protection while operating the machine. Operator must wear protective clothing when appropriate.
- Exhaust fumes can kill. Do not operate this machine in an enclosed area unless there is adequate ventilation.
- When you park the machine and before you leave the seat, check the restraint bar for proper operation. The restraint bar, when raised, deactivates the lift/tilt controls and auxiliary hydraulics, and applies the parking brake.

Maintenance


- Never attempt to by-pass the keyswitch to start the engine. Use only the jump starting procedure detailed in the chapter of this manual.
- Never use your hands to search for hydraulic fluid leaks. Instead, use a piece of paper or cardboard. Escaping fluid under pressure can be invisible and can penetrate the skin and cause serious injury. If any fluid is injected into your skin, see a doctor at once. Injected fluid must be surgically removed by a doctor or gangrene may result.

CONTROLS AND SAFETY EQUIPMENT

 WARNING Become familiar with and know how to use all safety devices and controls on the skid-steer loader before operating it. Know how to stop loader operation before starting it. This Gehl loader is designed and intended to be used only with a Gehl attachment or a Gehl-approved referral attachment or accessory. Gehl cannot be responsible for operator safety if the loader is used with a non-approved attachment.


Guards and Shields

Whenever possible and without affecting loader operation, guards and shields are provided to protect against potentially hazardous areas. In many places, safety decals are also provided to warn of potential hazards and/or to display special operating procedures.

 WARNING Read and thoroughly understand all safety decals on the loader before operating it. Do not operate the loader unless all factory-installed guards and shields are properly secured in place.

Operator Restraint Bar

Lower the restraint bar after entering the operator's compartment. The restraint bar is securely anchored to the ROPS/FOPS. The restraint bar switch and the seat switch form an interlock for the lift arm, tilt, drive and starter circuits (refer to the *Safety Interlock System* topic on page 19 for more information).

 WARNING Never defeat the operator restraint bar or seat switch electrically or mechanically. Always wear your seatbelt.

- **ON (or RUN) Position** – With the key turned one position clockwise from vertical, power from the battery is supplied to all control and instrument panel circuits.
- **START Position** – With the key turned fully clockwise, the electric starter energizes, start the engine. Release the key to RUN position after the engine starts.

Note: The engine cannot be started unless the operator is sitting in the seat and the restraint bar is lowered.

10. **Fasten Seatbelt** – A momentary visual (and audible) indicator to remind the operator to fasten the seatbelt(s).
11. **Engine Oil Pressure** – Lights if the engine oil pressure is too low. Warns the operator to immediately stop the engine and determine the cause for the low pressure. During normal operation this indicator should be OFF.
12. **Battery** – Lights if the charging voltage is too high or too low. During normal operation this indicator should be OFF.

High-Flow Auxiliary Hydraulic Control (optional)

In addition to a standard-flow auxiliary hydraulic system, some loaders are equipped with a reversible high-flow auxiliary hydraulic system. The couplers are located on the right lift arm. High-flow auxiliary hydraulics are used for operating certain hydraulic attachments (e.g., cold planer, snowblower) that require higher flows.

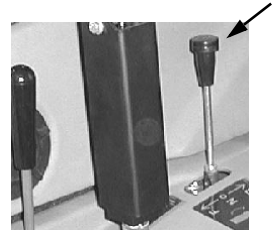


Figure 23 High-Flow Control (T-Bar, Dual-Hand & Hand/Foot controlled units)

A 3-position control lever, located behind the right control handle, is used to control the direction of oil flow. The lever is spring-centered, with a detent in the forward position for continuous operation.



Figure 24 High-Flow Control (Joystick controlled units)

Auto-Shutdown System

The auto-shutdown system will activate if the loader has an over-temperature situation or no oil pressure for more than 30 seconds. An audible alarm will sound and the Engine Coolant Temperature light or Engine Oil Pressure light will turn on and the loader will shut down after approximately 30 seconds.

Leveling the Ground

Drive the loader to the far edge of the area to be leveled. Tilt the bucket forward to place the bucket cutting edge at a 30 to 45 degree angle to the surface being leveled. Then place the lift arm into the float position and drive the loader rearward, dragging the dirt and, at the same time, leveling it (Figure 31).

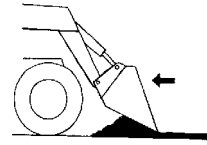


Figure 31 Leveling the Ground

Note: The detent (“float”) position for T-Bar loaders is reached by pushing the right handle all the way forward, and for dual-hand control loaders by rotating the left handle all the way outward. For hand/foot control loaders, use the toes of the left foot to push the front of the left pedal all the way down. For joystick control loaders press float button on the right grip. Pressing button for more than 5 seconds will allow the machine to go into detent (“float”) mode. Press again to cancel detent.



WARNING

Check that the work area is clear of people and obstacles. Always look in the direction of travel.

Highway Travel

If it becomes necessary to move the loader a long distance, use a properly rated trailer. (See *Transporting the Loader* on page 48) For short distance highway travel, attach an SMV (Slow Moving Vehicle) emblem (purchased locally) to the back of the loader. For highway operation, install dual amber flashers or a strobe light. Check state and local laws and regulations.

Storing the Loader

If your skid-steer loader is to be stored for a long period of time, the following procedure is suggested:

1. Fully inflate the tires to the recommended pressure.
2. Lubricate all grease zerks.
3. Check all fluid levels and replenish as necessary.
4. Add stabilizer to the fuel per the fuel supplier’s recommendations.
5. Remove the battery, charge fully and store in a cool, dry location.
6. Protect against extreme weather conditions such as moisture, sunlight and temperature. Cover the exhaust pipe (when parked outdoors for some time.)
7. Wash the machine and touch up the paint finish to avoid rusting.
8. Treat exposed parts with anti-rust agent.





Lubrication

Listed below are the temperature ranges and types of lubricants for this machine. Refer to the separate engine manual for more information regarding engine lubricants, quantities and grades required.

Note: Refer to the specific service sections for detailed information on periodic checking and replenishing of lubricants.

Refer to Figure 41 for grease fitting locations. Wipe dirt from the fittings before greasing them to prevent contamination. Replace any missing or damaged fittings. To minimize dirt build-up, avoid excessive greasing.

Important: Always dispose of waste lubricating oils and hydraulic fluids according to local regulations or take to a recycling center for disposal. Do not pour onto the ground or down the drain.

| System | Lubricant |
|---|---|
|  Hydraulic System Oil | Use Petro Canada MV60, Mobil DTE 15M or equivalent which contains anti-rust, anti-foam and anti-oxidation additives, and conforms to ISO VG46. Capacity: 15 U.S. gallons (56,8 L) |
|  Chaincase Oil | Use hydraulic system oil or SAE grade 15W40 motor oil. Capacity (each side): 3 U.S. gallons (11,4 L) |
|  Grease Fittings | Use lithium-based grease. |
|  Engine Oil | Below 32°F (0°C) – Use SAE Grade* 10W or 10W30 Above 32°F (0°C) – Use SAE Grade* 15W40 *Service Classification: API – CG4/CH4 Capacity: 11 U.S. quarts (10,4 L) |

Cleaning Cooling System

1. Park the loader on a level surface, lower the lift arm and stop the engine. Allow the machine to cool.
2. Open the engine cover (page 54).
3. Remove cooler lock bolt and swing cooler out.
4. As necessary, clean the radiator and oil cooler by blowing compressed air through the fins.



Figure 50 Swing cooler out

Draining/Flushing Cooling System

1. Open the rear door and engine cover. Remove the left access panel (page 54).
2. **Radiator** – Open the drain valve located on the radiator (#11, Figure 45) and drain the coolant into a suitable container.

Note: Coolant must be drained from both the radiator and the engine.

3. Close the drain valve.

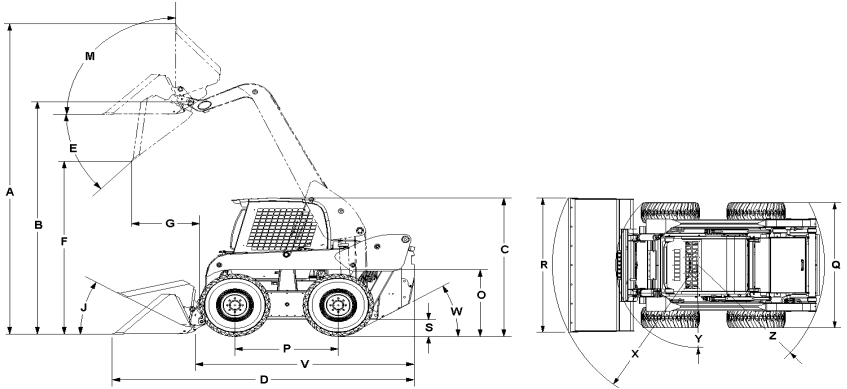
Note: Protect the cooling system by adding premixed 50% water and 50% ethylene glycol to the system. This mixture will protect the cooling system to -34°F (-36°C).

4. Fill the radiator fully and the recovery tank half full with the premixed coolant.
5. Reinstall the radiator cap.
6. Run the engine until it is at operating temperature. Stop the engine and let it cool. Check the coolant level. Add more fluid if required.

Hydraulic System

| Problem | Possible Cause | Remedy |
|--|---|--|
| Lift/Tilt controls fail to respond. | Restraint bar raised. Hydraulic oil viscosity too heavy. Hydraulic oil level low. Solenoid valve(s) malfunctioning. Restraint bar or seat switch malfunctioning. | Lower restraint bar. Allow longer warm-up or replace with proper viscosity oil. Check oil level in reservoir. If oil is low, check for external leak, repair and add oil. Check electrical connections to lift solenoid and repair. Contact your dealer. |
| Hydraulic cylinder action is slow for lift and/or tilt functions. | Low engine speed. Hydraulic oil viscosity too heavy. Hydraulic oil level low. Control linkage restricted. Hydraulic oil leaking past cylinder piston seals. Worn pump. Solenoid valve(s) malfunctioning or one of the two cartridges on solenoid valve is malfunctioning. | Operate engine at higher speed. Allow longer warm-up or replace with proper viscosity oil. Check oil level in reservoir. If oil is low, check for an external leak. Repair and add oil. Check control linkage, readjust for full spool travel. Contact your dealer. Contact your dealer. Check electrical connections to lift solenoid and repair connections as needed. If solenoid valve is still not functioning properly, contact your dealer. |
| Bucket does not level on the lift cycle. | Self-leveling valve misadjusted or malfunctioning. | Contact your dealer. |
| Jerky lift arm and bucket action. | Seat or restraint bar switch malfunctioning. Air in hydraulic system. Oil is aerated. Oil in hydraulic reservoir low. | Contact your dealer. Cycle/lift and tilt cylinders to maximum stroke and maintain pressure for short time to clear air from system. Contact your dealer. Check and add oil. |

Dimensional Specifications



| | | 22 ft³ (0.6 m³) Bucket w/14 x 17.5 Tires | |
|----------|--|---|-----------|
| | | inches | mm |
| A | Overall Operation Height – Fully Raised | 185.8 | 4719 |
| B | Height to Hinge Pin – Fully Raised | 142.0 | 3607 |
| C | Overall Height – Top of ROPS/FOPS | 81.1 | 2050 |
| D | Overall Length – Bucket Down | 159.0 | 4039 |
| E | Dump Angle at Full Height | 35.8° | |
| F | Dump Height | 109.5 | 2781 |
| G | Dump Reach – Bucket Full Height | 36.8 | 934 |
| J | Rollback at Ground | 28.2° | |
| M | Rollback Angle at Full Height | 85° | |
| O | Seat to Ground Height | 40.5 | 1029 |
| P | Wheel Base – Nominal | 54.3 | 1379 |
| Q | Overall Width – Less Bucket | 80.3 | 2040 |
| R | Bucket Width – Overall | 84.0 | 2134 |
| S | Ground Clearance – to Chassis (Between Wheels) | 8.5 | 216 |
| U | Maximum Grading Angle | 81.5° | |
| V | Overall Length (Less Bucket) | 122.0 | 3099 |
| W | Departure Angle | 21.0° | |
| X | Clearance Circle – Front (With Bucket) | 98.5 | 2502 |
| Y | Clearance Circle – Front (Less Bucket) | 60.6 | 1539 |
| Z | Clearance Circle – Rear | 80.5 | 2045 |

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL