

**GEHL®**

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913258  
Revision C  
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# RS5-19

## Telescopic Handler



# Operator's Manual

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# SAFETY



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## WARNING

U.S. OSHA regulations require employers in general industry and the construction, shipyard and cargo-handling industries (excepting agricultural operations) to ensure that forklift operators are competent, as demonstrated by successful completion of a training course.

The training course must consist of a combination of formal instruction and practical training, including both forklift-related and workplace-related topics, and evaluation of the operator's performance in the workplace.

All operator training and evaluation is to be conducted by persons who have the knowledge, training and experience to train and evaluate operators.

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## WARNING

**ALWAYS** maintain a safe distance from electric power lines and avoid contact with any electrically charged conductor or gas line. It is not necessary to make direct contact with a power line for power to ground through the structure of the machine. Keep the boom at least 10 ft. (3 m) from all power lines. Accidental contact or rupture can result in electrocution or an explosion. Contact the North American One-Call Referral System at (888) 258-0808 for the local "Digger's Hotline" number or proper local authorities for utility line locations before starting to dig!

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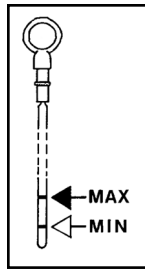
## Additional Safety Reminders

- User/operator safety practices, as established by industry standards, are included in this Operator's Manual and intended to promote safe operation of the machine. These guidelines do not preclude the use of good judgment, care and common sense as may be indicated by the particular jobsite work conditions.
- It is essential that operators be physically and mentally fit and free of mind-altering drugs and chemicals, and thoroughly trained in the safe operation of the machine. Such training should be presented completely to all new operators and not condensed for those claiming previous experience. Information on operator training is available from several sources, including the manufacturer.
- Some illustrations used in this manual may show doors, guards and shields open or removed for illustration purposes **ONLY**. **BE SURE** that all doors, guards and shields are in their proper operating positions before starting the engine.

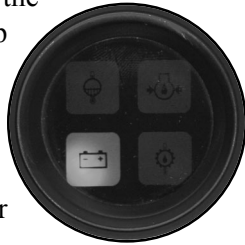
## Before Operation Safety Reminders

- Check brakes, steering, and hydraulic system prior to starting operation. Operate all controls to ensure proper operation. Observe all gauges and indicators for proper operation. If any malfunctions are found, correct the cause prior to using the machine.
- **ALWAYS** wear appropriate personal protective equipment for the job and working conditions. Hard hats, goggles, protective shoes, gloves, reflector-type vests, respirators and ear protection are examples of types of equipment that may be required. **DO NOT** wear loose fitting clothing, long hair, jewelry or loose personal items while operating or servicing the machine.
- **ALWAYS** check the job site for terrain hazards, obstructions and people. Remove all objects that do not belong in or on the machine and its equipment.

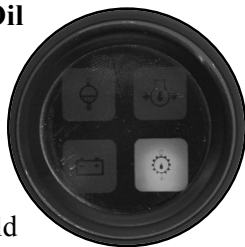
**IMPORTANT:** If this lamp comes on during normal operation with the engine running, stop the engine immediately! After allowing the oil to drain down for a few minutes, check the engine oil level. Maintain oil level between the marks on the dipstick.



**Alternator Lamp:** Located in the lower left quadrant of the lamp cluster gauge, this lamp indicates the condition of the electrical charging system. During normal operation, this lamp should be off. If the charge rate is too high or too low, this lamp will come on.



**Hydrostatic Transmission Oil Temperature Lamp:** Located in the lower right quadrant of the lamp cluster gauge, this lamp lights when the transmission oil temperature is too hot. During normal operation this lamp should be off, indicating that the transmission oil is at the proper temperature.



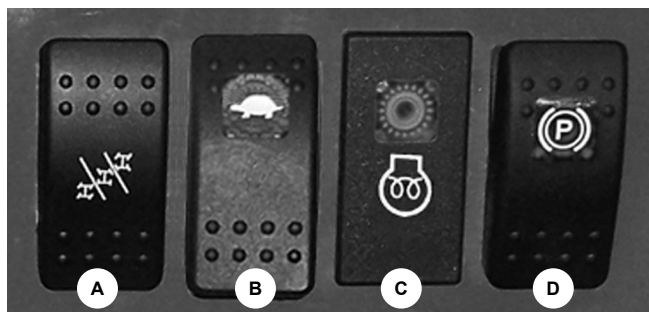
**IMPORTANT:** If this lamp comes on during normal operation, a problem may exist in the hydrostatic transmission. Stop the machine immediately and investigate the cause of the problem!

**Hourmeter:** Located to the right of the lamp cluster gauge, it indicates the total operating time of the machine and should be used for keeping the maintenance log.



### Top Row Switches and Indicator

Switches have graphic symbols to indicate function and effect. The following mode descriptions start with the first switch on the left.



**A - Steering Mode:** This 3-position switch is used to select among the three steering modes. The upper position selects the 4-wheel steering mode. This mode selects all-wheel steering for making tighter turns, usually on a jobsite. The center position selects the 2-wheel steering mode. This mode selects front wheel steering only, used for higher speed travel. The lower position selects the crab steering mode. This mode is used when a small amount of side shift is needed for picking or placing a load.

**NOTE:** The rear wheels are not self-centering. Make sure all wheels are in a straight-ahead position before changing the steering mode.

Any of the steering modes can be used in both forward and reverse travel. The operator should learn to anticipate changes in machine movement if the steering mode must be changed.

**B - High/Low Speed:** This switch is used to select the travel speed. Press the top of the switch to select low speed, used for load pickup and placement, or whenever low speed operation is desired. Press the bottom of the switch to select high speed, used for road travel.

**IMPORTANT:** Be sure machine is stopped before changing travel speeds.

**C - Engine Preheat Indicator:** When lighted this lamp indicates that the cold weather starting aid is in use.

**D - Parking Brake:** When the machine is parked, this switch should be pressed to actuate the parking brake mechanism in the front axle.

## WARNING

**Unattended machine hazard.**

**Activate parking brake switch and lower attachment tool to ground before leaving machine. An unattended machine can move or roll and cause death or serious injury to operator or bystanders.**

**Periodically check the parking brake operation to verify that it has adequate holding power. Always be sure the parking brake switch is off when resuming machine operation.**

1. Check the engine oil, coolant and hydraulic oil levels.
2. Check hydraulic oil cooler and engine radiator for debris.
3. Be sure weekly lubrication has been done.
4. Visually inspect for leaks and broken or malfunctioning parts. Be sure all caps, covers and safety shields are in place.
5. Check tires for cuts, bulges, nails, correct pressure, loose wheel nuts, etc.
6. Inspect the work area. Be sure you know where you will make load pickups, lifts and turns. Look over the terrain of the jobsite for holes, obstacles, slippery surfaces, and soft or deep mud.
7. Check clearances of ramps, doorways and passage-ways. Check overhead clearances if you will travel and place loads near power or telephone lines.

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## WARNING

**Exhaust fumes can kill. Ensure proper ventilation when starting indoors or in enclosed areas.**

**Use proper hand holds, NOT the steering wheel or control levers when mounting and dismounting.**

**NEVER operate the machine with safety guards or covers removed.**

**Over-inflated tires can explode and cause injury or death. Tire repairs MUST be made only by authorized personnel using proper tools and equipment.**

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If the machine is in need of repair or in any way unsafe, or contributes to an unsafe condition, the matter must be reported immediately to the user's designated authority. The machine must NOT be operated until it has been restored to a safe operating condition.

Operate the travel controls gradually and smoothly when starting, stopping, turning and reversing direction.

### Grade and Slope Precautions

The Telescopic Handler complies with industry stability test requirements and is stable when properly oper-

ated. However, improper operation, faulty maintenance, and poor housekeeping can contribute to a condition of instability and defeat the purpose of the standard.

The amount of forward and rearward tilt to be used is governed by the application. Although use of maximum rearward tilt is allowable under certain conditions, such as traveling with the load fully lowered, the stability limits of the machine, as determined by the industry standard tests, do not encompass consideration for excessive tilt at high elevations, or the handling of off-center loads.

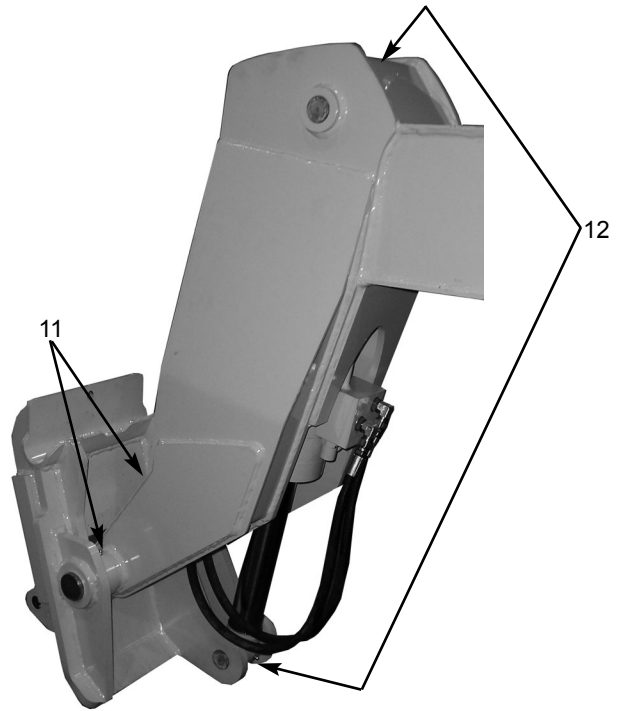
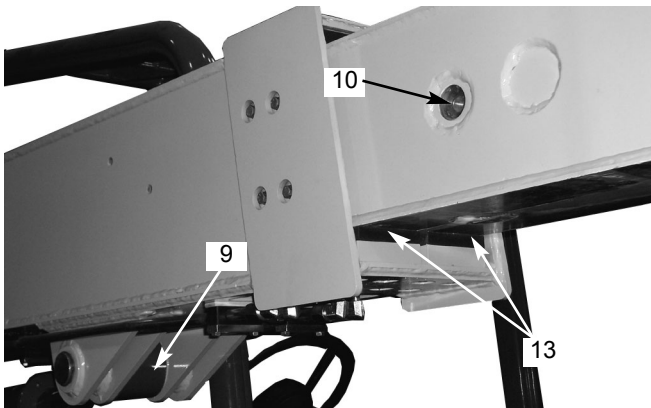
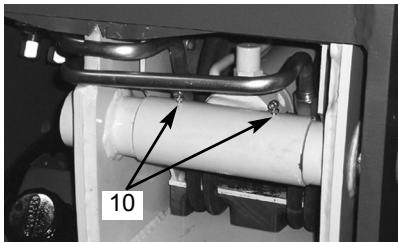
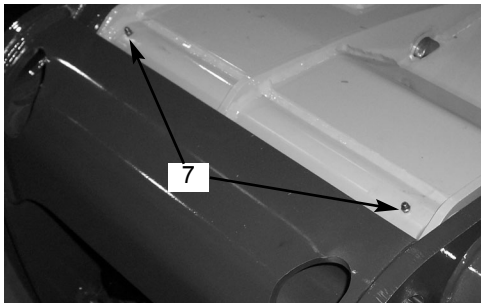
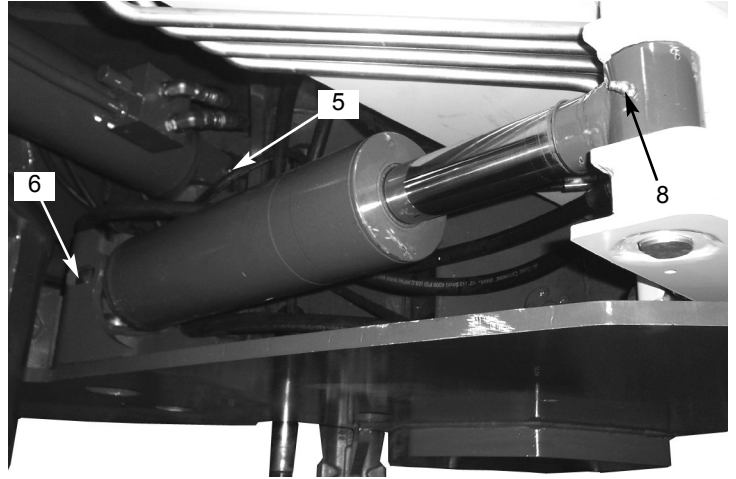
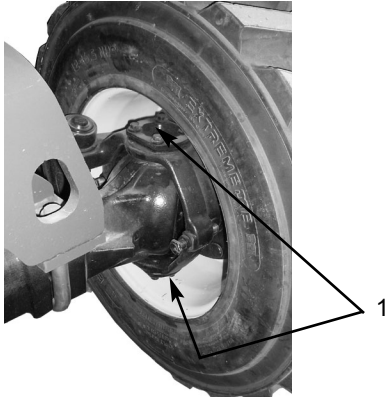
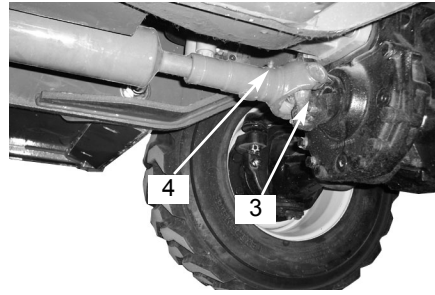
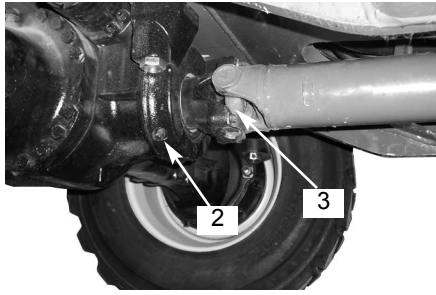
Only handle loads within the capacity limits of the machine, and which are stable and safely arranged. When attachments are used, extra care should be taken in securing, manipulating, positioning and transporting the load.

### Grade Limits

**NOTE:** *Grade limits are based on ANSI/ITSDF standard B56.6-2005.*

This Telescopic Handler meets or exceeds the safety standard (ANSI/ITSDF B56.6) stability limits for rough terrain forklifts. The stability tipping limits cover specific, controlled test conditions, which are extremes, and which are not intended to be achieved during normal worksite operations. The following specifications are provided only as information to the operator, and must not be used as a guideline for operating the Telescopic Handler. For safe operation, always follow the instructions and warnings provided in this manual.

1. DO NOT place or retrieve loads on an up or down slope or grade that exceeds 7% or 4°.
2. DO NOT travel up or down a grade or slope that exceeds 22% or 12° while loaded.
3. DO NOT place or retrieve loads on a side hill with a slope or grade that exceeds 12% or 7°. Check the location of the ball in the frame angle indicator located on the ROPS/FOPS cross member. If the ball in the frame angle indicator is in the green zone, it is safe to place or retrieve the load. If the ball in the frame angle indicator is in the yellow zone, use slower movements and extra caution to ensure remaining within the limits of the load chart, because the machine is nearing an unstable condition. If the ball in the frame angle indicator is in the red zone, loads cannot be placed or retrieved.



### Grease Fittings Locations

## Diesel Fuel Injectors

Whenever faulty or plugged injectors are indicated, see your authorized engine dealer.

## Diesel Injection Pump Timing

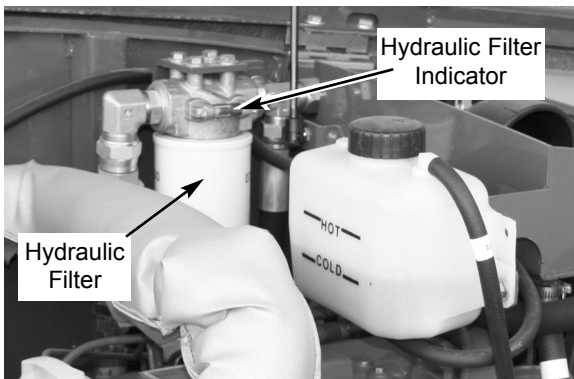
Whenever injection pump timing, or other pump service is indicated by abnormal engine operation, contact your engine dealer.

## CHECKING AND CHANGING HYDRAULIC RETURN FILTER ELEMENT

### **WARNING**

Before servicing the hydraulic filter, lower the boom to the ground.

When checking the filter indicator, **STAY CLEAR** of any rotating parts. Contact with rotating parts will cause serious injury.



This spin-on type hydraulic filter element is accessible from under the engine cover. Initial replacement is after the first 100 hours. To check the hydraulic filter element, run the engine at full throttle and normal operating temperature. Have an assistant lift the engine cover to observe the hydraulic filter indicator located on the filter head. If the indicator is green, the filter does not need replacing. If the indicator is red, replace the filter following the instructions below:

1. Turn off the engine.
2. Spin off the old hydraulic filter element.
3. Wipe the gasket sealing surface of the filter head with a clean cloth.
4. Apply a thin coat of clean oil to the new filter gasket.

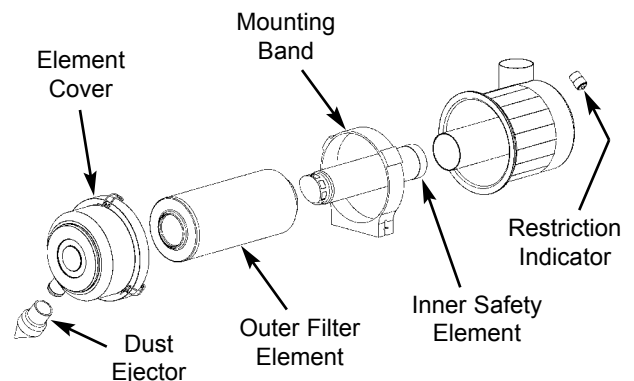
5. Spin on the new filter element and hand tighten.
6. Run the engine at full throttle and check for leaks at the filter sealing area.

### **Service Every 1000 Hours or Yearly**

Perform all other service requirements up to this point, as well as the following:

## CHECKING AND CHANGING AIR FILTER ELEMENTS

**IMPORTANT:** Failure to follow proper filter servicing instructions could result in catastrophic engine damage.



### **Air Cleaner Assembly**

The air cleaner assembly consists of an outer (primary) filter element and an inner (safety) filter element. An air filter restriction indicator for monitoring the condition of the elements is located in the rubber elbow at the rear of the air cleaner. If the air filter becomes restricted, this indicator turns red to warn that the air cleaner requires service. Push the reset button located at the end of the indicator after replacing the element.

**NOTE:** Before replacing the filter element(s), push the reset button on the indicator. Start the engine and run at full throttle. If the indicator does not turn red, do not replace the element(s).

The outer element should be replaced only when the restriction indicator turns red. The inner element should be replaced every third time the outer element is replaced, unless the outer element is damaged or the inner element is visibly dirty. Along with a daily check of the restriction indicator, check that the air cleaner intake hose and clamps, and the mounting bracket hardware are properly secure.



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