689G TELESCOPIC HANDLER

Operator's Manual

Bur 6-3210NA

Reprinted

CASE CONSTRUCTION

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RATED CAPACITY CHART

WARNING: *Your machine may be equipped with several different Rated Capacity 'Charts to accommodate different boom attachments. MAKE SURE that the Rated Capacity Chart you are using corresponds to the boom attachment fitted to the machine.* M594

IMPORTANT: *The rated capacities shown on each Rated Capacity Chart are for a Telescopic Handler on a level surface.*

WARNING: *DO NOT add to or modify the machine. Any change to the machine or its equipment can change the lifting capacity. The machine must be rated as equipped and the Nameplate must show the new capacity rating.* M595

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17. **BOOM CONTROL JOYSTICK:** The Boom Control Joystick (17) controls two operations of the boom. Move the joystick forward (BOOM DOWN) to lower the boom; move the joystick back (BOOM UP) to raise the boom. Move the joystick to the right (EXTEND) to extend the boom; move the joystick to the left (RETRACT) to retract the boom.

18. **FORK TILT CONTROL:** The forks are tilted by the Fork Tilt/Frame Leveling Joystick (18/19). The Fork Tilt Control Lever or Joystick controls the tilt of the forks at the end of the boom. Move the lever or joystick forward to tilt the tips of the forks downward. Move the lever or joystick back to move the tips of the forks upward.

19. **FRAME LEVELING CONTROL:** The Telescopic Handler often operates on ground that is not level. The Frame Leveling Control permits the operator to make the chassis of the Telescopic Handlers level on slopes up to a 21 percent grade. The Level Indicator (1), located on the upper crossmember of the overhead guard, will show you when the frame of the Telescopic Handlers has reached a level position. The frame is leveled by the Fork Tilt/Frame Leveling Joystick (18/19). Move the joystick to the left to tilt the chassis of the truck to the left. Move the joystick to he right to tilt the chassis of the Telescopic Handler to the right.

> ⚠ **WARNING:** *Do not use the frame leveling function when the load is raised. Level the frame before the load is lifted. If the machine is equipped with tilt carriage, level the frame before using the tilt carriage adjustment.*
>
> *Move the frame leveling controls slowly and smoothly. Rapid starting and stopping of the frame motion can cause the machine to tip. The risk of tipping increases as the boom is raised and extended.* M598

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Air Filter Maintenance

Cleaning Filter with Compressed Air

Clean or replace the air filter as necessary. Wear face protection and use compressed air to clean the filter element. The air pressure must be less than 205 kPa (30 psi). Apply the air from the inside to the outside of the element.



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Filter Inspection

To inspect the filter element, put a bright light inside and look for holes or other damage. If it is damaged, replace it with a new element. Clean the inside of the canister when the filter is changed.



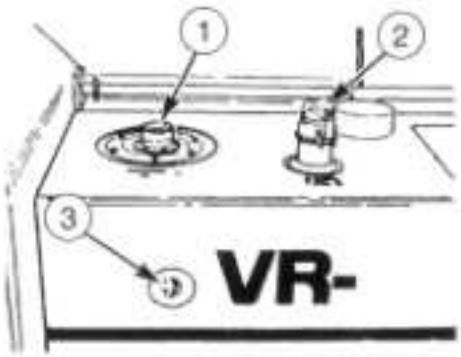
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Hydraulic Oil Level

NOTE: *Never operate the engine without oil in the hydraulic system. A few revolutions without oil can damage the hydraulic pumps.*

NOTE: *Do not permit dirt to enter the hydraulic system when the oil level is checked of the filter is changed.*

Check the hydraulic oil level when the oil is at operating temperature, the boom is fully retracted, the carriage is lowered, and the engine is shut down. Add hydraulic oil only as needed. If hydraulic oil is added past the "FULL" level, the hydraulic oil will leak from the breather during operation. All models have a sight glass on the side of the hydraulic tank for checking the oil level in the hydraulic tank.



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1. HYDRAULIC OIL TANK FILL
2. FUEL TANK FILL
3. HYDRAULIC OIL SIGHT GAUGE

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