NEW HOLLAND CONSTRUCTION

LS180

Serial Number LMU005250 and Above

OPERATOR'S MANUAL



NEW HOLLAND

87012127 2/03

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HIGH/LOW RANGE CONTROL - (Optional)

The LS180 Skid Steer may be equipped with variable displacement motors and a control switch in the top of the right hydrostatic directional control lever, 1. Pressing the switch will change the motor camplate angle and will vary the ground speed in low range from 0 to 7.5 MPH, high range from 0 to 12 MPH.

Low range is the normal working range for maximum skid steer efficiency. High range is for transport only.

MAXIMUM TORQUE IS OBTAINED AT MINIMUM GROUND SPEED IN LOW RANGE.

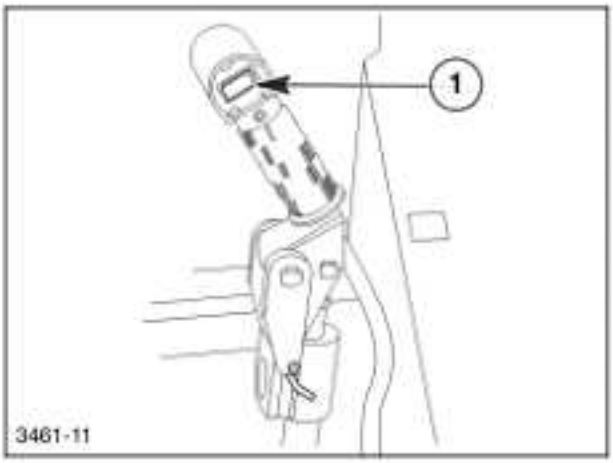


Figure 2-26

CAUTION: ALWAYS USE CAUTION WHEN OPERATING A SKID STEER AT MAXIMUM SPEEDS. SLOW DOWN ON ROUGH TERRAIN, AND DURING TURNS. NEVER OPERATE THE SKID STEER FASTER THAN CONDITIONS PERMIT.

HYDROSTATIC CONTROL LINKAGE

The hydrostatic control linkage bell crank, 1, right side control and, 2, left side control, located under the operator's seat, has three positions for the servo-control arm link to be connected at 3, 4, or 5.

The skid steer is shipped with the linkage connected in the center position 3. This position will give the operator maximum torque at the wheels.

Position 4 will give the operator maximum wheel speed with less torque.

Position 5 will give the operator a slower wheel speed.

Refer to the maintenance/adjustment section for linkage positioning and adjustment.

IMPORTANT: The right and left control linkage must be in the same location at 3, 4, or 5, for proper operation and wheel speeds.

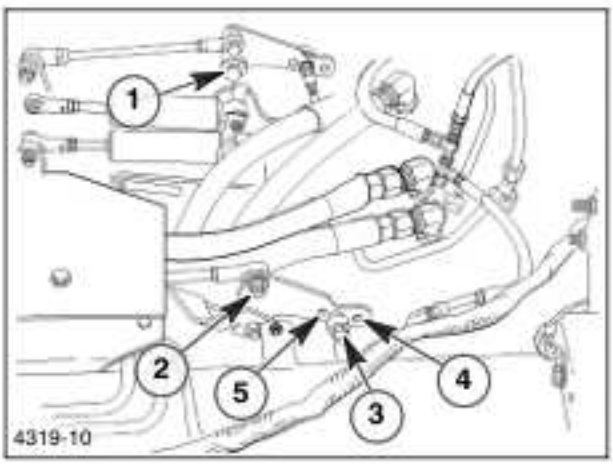


Figure 2-27

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AXLES (4)

A grease fitting, 1, is provided in each axle to lubricate the axle bearings every 1000 hours or if a wheel is removed for any reason (replace tires, fix flat, etc.). Lubricate the axles every 500 hours when operating with tracks or when operating in liquid or semi-liquid conditions where the skid steer axles are submerged.

Units with the (optional) heavy duty axle seals will not have axle housing grease fittings. With the addition of the heavy duty seal, grease is no longer needed to purge dirt from the inside of the axle.

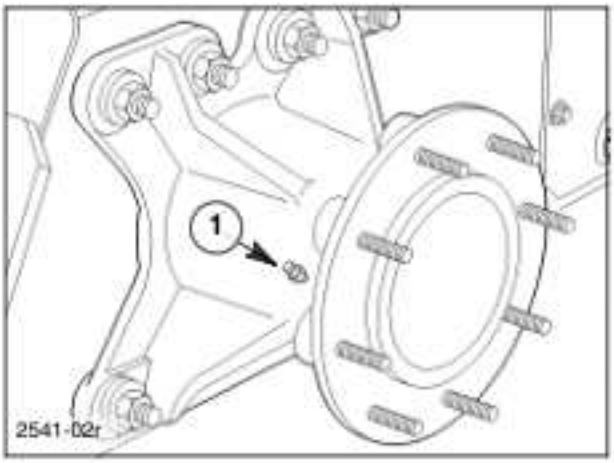


Figure 3-10

STEERING AND CONTROL LINKAGE

Lubricate the control linkage pivots, 1, with 10W-30 API Service SH/CG-4 oil and grease the fittings, 2, every 100 hours.

FOOT OR HAND CONTROLS, PARKING BRAKE LINKAGE

Lubricate the linkage pivot points with 10W-30 API Service SH/CG-4 oil every 100 Hrs.

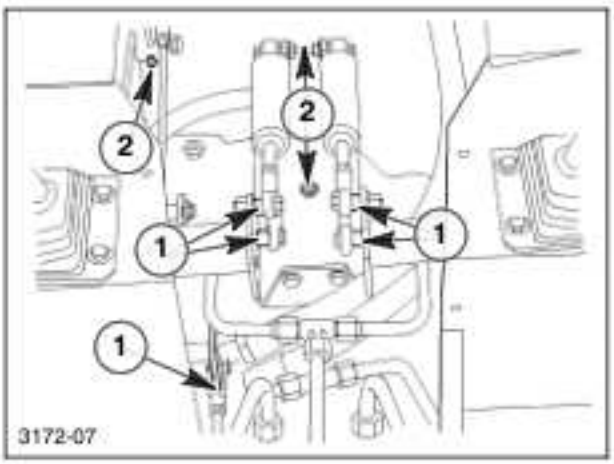


Figure 3-11

ENGINE GEARBOX

Check the oil level at, 1, and add oil at 2, to maintain the proper oil level, use SAE 80W-90 gear oil.

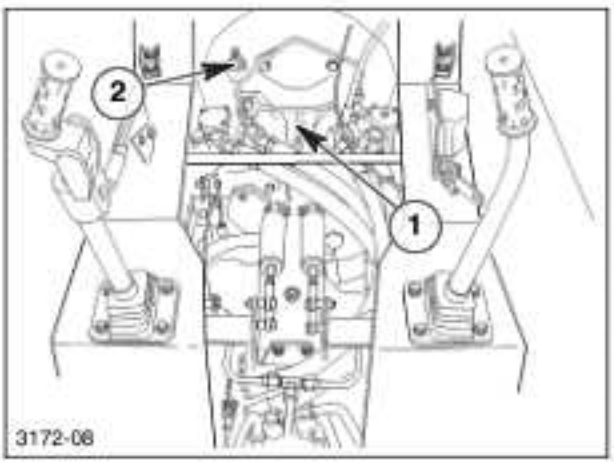


Figure 3-12

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SECTION 6

OPTIONAL EQUIPMENT

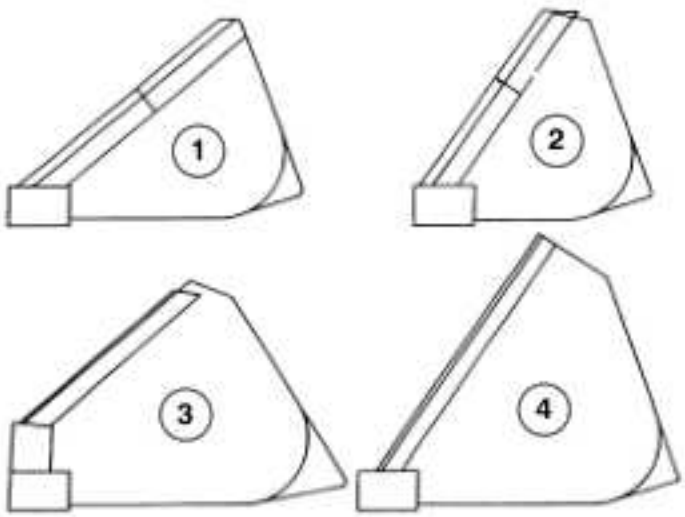


Figure 6-1

BUCKETS TYPES

1 - LP - Low profile

The low profile bucket has a shorter back and is longer from bucket heel to cutting edge for optimum cutting edge visibility. This is important for finish grading and accurate cut and fill jobs.

2 - D & F - Dirt and foundry

The dirt and foundry bucket is shorter from bucket heel to cutting edge to provide maximum breakout force for tough digging conditions.

3 - M & F - Manure and fertilizer (slurry)

The manure and slurry bucket is for handling loose or fluid materials with more rollback to minimize spillage.

4 - LM - Light material

The light material bucket is for light, high volume materials for more productivity in this application.

Bucket styles and sizes should be selected to provide both adequate breakout force and reasonable carrying capacity. Dense materials should be handled with a relatively small bucket. Lighter materials should be handled with higher capacity buckets. Refer to the bucket capacity chart and material weight chart when choosing the bucket for the job.

UTILITY FORK

The utility fork is for handling matted, stringy material which is difficult to load into a standard bucket. The standard tine spacing, center to center, is 8-1/2" (21.8 cm). The fork frame is equipped with additional holes for additional tines reducing the tine spacing to 4-1/4" (10.9 cm).

BUCKET CAPACITY CUBIC FEET

BUCKET WIDTH	BUCKET	CAPACITY HEAPED (CU FT)	CAPACITY STRUCK (CU FT)
66"	Utility fork	N/A	N/A
66"	Low profile	15.5	11.2
66"	Dirt and foundry	15.2	11.6
72"	Low profile	17.1	12.2
72"	Dirt and foundry	16.7	12.7
72"	Manure and fertilizer	19.1	15.5
72"	Light material	23.7	19.0
78"	Low profile	18.8	13.3
78"	Dirt and foundry	18.1	13.7
84"	Low profile	20.2	14.3
84"	Manure and fertilizer	22.5	18.2
84"	Light material	27.9	22.3

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