NEW HOLLAND

SKID STEER LOADER

LS190

OPERATOR'S MANUAL

86589933 NA

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SECTION 2

OPERATION

CONTROLS AND INSTRUMENT PANEL OPERATION

1. IGNITION AND STARTING SWITCH

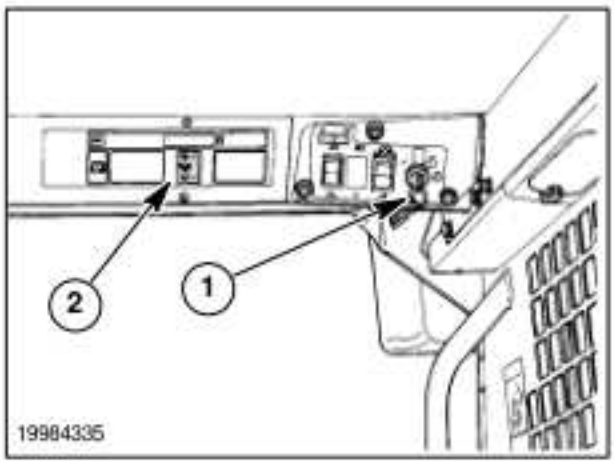


Figure 2-1

Turning the key clockwise to the "RUN" position supplies power to the Electronic Instrument Cluster (EIC), primary ignition, engine preheat, fuel solenoid and auxiliary circuits. Continued turning of the key clockwise activates the starting circuit. A spring returns the key to the "RUN" position when released.

The key can be rotated counterclockwise to the left of the "OFF" position to power the auxiliary circuit.

2. ADVANCED WARNING SYSTEM ELECTRONIC INSTRUMENT CLUSTER (EIC)

The skid steer advanced warning system monitors engine functions and operator controls and reports conditions to the operator and provides safety interlocks to the hydraulic control valve spools to the boom and bucket.

The instrument cluster has three kinds of visual displays: backlighted symbols, an LED character display, and a segmented bar graph.

The EIC (Electronic Instrument Cluster) board employs incandescent lamps to backlight symbols representing monitored functions. Active sensor symbols are backlighted with either yellow (WARNING) or red (FAULT). Inactive sensor symbols are visible as a dim gray outline when the backlighting is not active. An audible alarm accompanies most visual alarm lights.

The front panel of the instrument cluster has several components and display areas. Refer to Figure 2-2 through 2-7 and read the following paragraphs to understand each item and area.

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SECTION 3

LUBRICATION

Adequate lubrication and maintenance according to a regular schedule is a vital part of maintaining the skid steer. To insure long service and efficient operation, follow the lubrication and maintenance schedules listed in the manual. The use of the proper fuels, oils, filters and keeping the systems clean will extend machine and component life.

RECOMMENDED LUBRICANTS:

Grease - High viscosity lithium base

NH #9613310 - tube

Oil - *Engine - 10W-30 - API Service SH/CG-4

OIL RECOMMENDATION CHART, ENGINE

Ambient Temperature	Recommended Oil
-10° F to +120° F	SAE 10W-30
-20° F to +60° F	SAE 5W-30
-40° F to +30° F	SAE 5W

Oil - Hydraulic - 10W-30 - API Service SH/CG-4

OIL RECOMMENDATION CHART, HYDRAULIC

Ambient Temperature	Recommended Oil
-10° F to +120° F	SAE 10W-30
-20° F to +60° F	SAE 5W-30
-40° F to +30° F	SAE 5W

Oil - Pivot Points - 10W-30 - API Service SH/CG-4

NH #9613313 - 1 qt.

NH #9613314 - 2.5 gal.

NH #9613358 - 1 L

NH #9613360 - 20 L

Oil - Gearboxes/Final Drive Chain Case - 80/90

NH #9613294 - 2.5 gal.

NH #9613375 - 4 L

NH #9613295 - 1 qt.

Filters

Engine Oil Filter – #87800083

Hydraulic Oil Filter – #9842392

ATTENTION: Always use genuine New Holland replacement filters to ensure proper filtration of engine and hydraulic system oils.

** ATTENTION:The new engine in your skid steer loader crankcase is shipped from the factory with break–in engine oil. The engine oil and oil filter should be changed after the first 50 hours of operation.*

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HORN

The horn can be installed on units where required or in operations where a signal device is required.

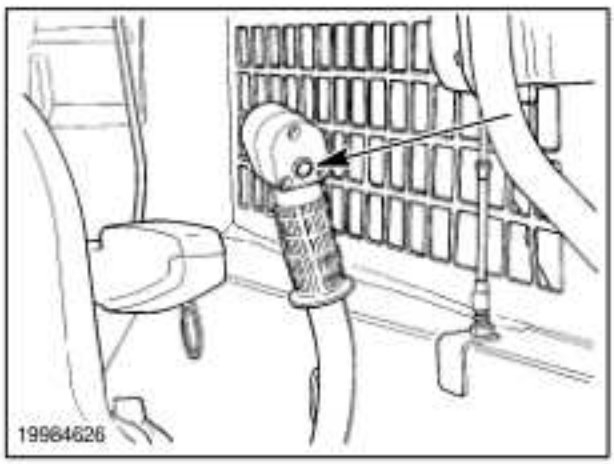


Figure 6-21

REAR COUNTER WEIGHTS (Factory or Dealer Installed)

The rear counter weights, three 60# weights per side, can be installed when heavy attachments are attached to the front of the skid steer or in applications where more rear weight is required for stability.

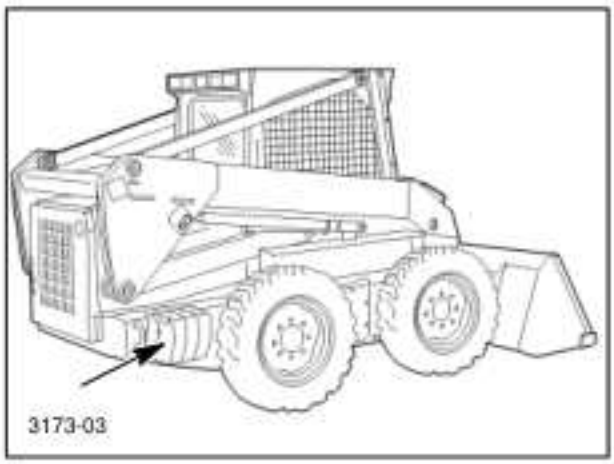


Figure 6-22

REAR VIEW MIRROR

The rear view mirrors can be installed to provide more rear view ability. One or two mirrors can be installed.

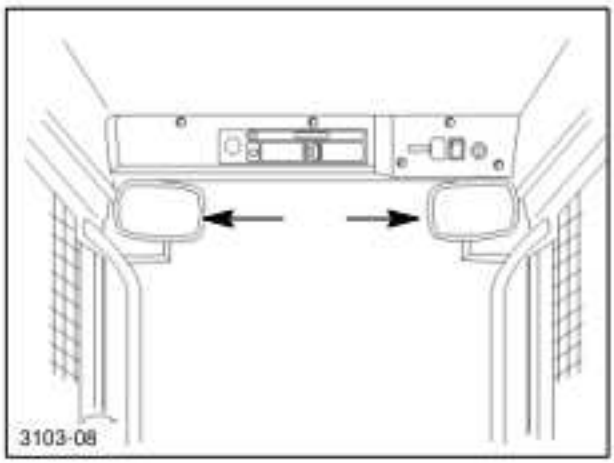


Figure 6-23

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