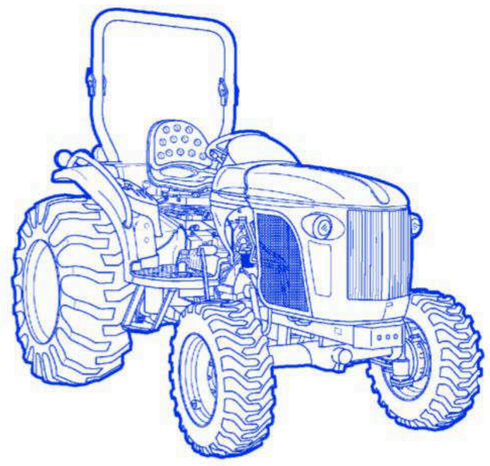


NEW HOLLAND
Boomer
8N

SERVICE MANUAL

NEW HOLLAND AGRICULTURE

SERVICE

84307374 6/10
Replaces 84218897

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SECTION 00 - GENERAL INFORMATION

Chapter 1 - General Information

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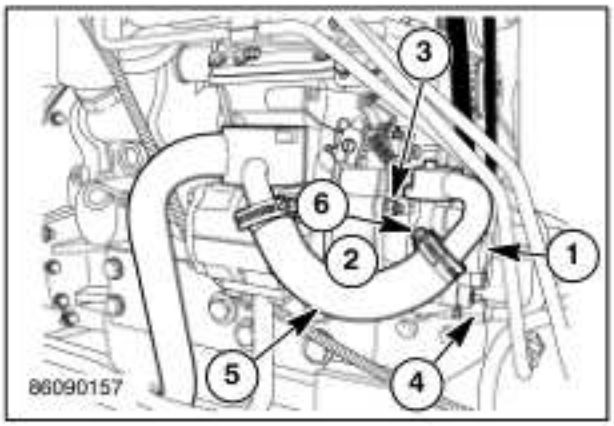
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Installation

1. Install the power steering pump, 1, onto the timing gear cover, 2.
2. Install and tighten the two retaining nuts, 3, and the two retaining bolts (not shown), to secure the power steering pump, 1, to the timing gear cover, 2.
3. Install and tighten the pressure tube, 4, to the bottom fitting on the power steering pump, 1.
4. Connect the suction hose, 5, to the power steering pump, 1.
5. Install the hose clamp, 6, to the hose, 5.



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Break-in Procedure

NOTICE: *Check the pump body and oil temperature while running. If the temperature is too high or noisy, stop the engine immediately and inspect the pump for possible causes.*

After the oil pump is overhauled, it needs a trail run as follows:

1. Install the oil pressure gauge 20684 kPa (3000 psi) on the pressure line refer to the "PRESSURE TESTING" in this SECTION 41 of the SERVICE MANUAL.
2. Start the engine and operate at low idle (1000 rpm) while the control valve is in the neutral position for about ten minutes.
3. Bring the engine up to the proper engine speed, and duration according to the steps listed below:

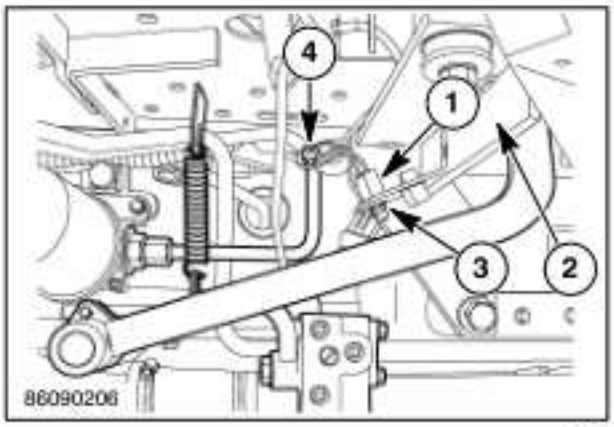
Step	Pressure	Engine Speed (rpm)	Minutes
1	Less 1000 kPa (145 psi)	1000	10
2	Less 1000 kPa (145 psi)	2000	10
3	14700 kPa (2132 psi)	1000	5
4	14700 kPa (2132 psi)	1500	5
5	14700 kPa (2132 psi)	2000	5

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Installation

1. Reattach the brake switch, 1, to the deck support bracket, 2, secure using the jam nut, 3.
2. Connect the wire harness connector, 4, to the switch, 1.
3. Connect the negative (-) battery cable to the negative (-) battery terminal.

NOTICE: *The brake switch installation procedure for a tractor equipped with the optional dual brake pedal kit is the same, except the switch is mounted on the platform bracket on the left side of the tractor.*

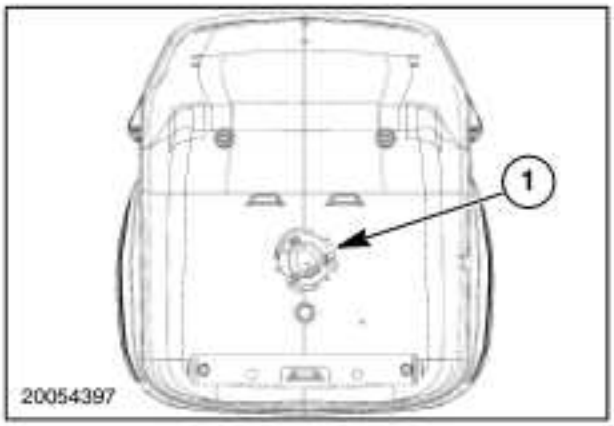


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SEAT SAFETY SWITCH

Description

The seat safety switch, 1, is a double pole, button type switch mounted to the bottom side of the seat pan. When the operator is not seated, the switch contacts are open and when the operator is seated, the switch contacts are closed.



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Removal

NOTICE: *The seat safety switch may be tested by removing the switch harness from the switch and placing ohmmeter test leads on the switch terminals. Push down on the middle of the seat to check for switch continuity However, it is recommended to remove the seat switch from the seat for testing.*

1. Tilt the seat forward to reveal the seat safety switch.
2. Disconnect the seat switch harness from the switch.
3. Rotate the switch counterclockwise to release the locking tabs and remove the switch from the seat.

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2026 - ENGINE SPEED TOO HIGH

Control Module: TCU

NOTICE: *When the cause of the error code has been rectified, clear the error code and test the system for normal operation.*

Cause:

This fault code indicates an engine overspeed has occurred. An engine overspeed can occur both during certain engine operating conditions without any defect in a component (e.g. downhill driving) but also if e.g. the engine controller has an error. This fault code does not necessarily indicate an error status but is used more for information purposes and inhibit handling.

Possible failure modes:

1. Information code indicating an engine overrun has been detected

Solution:

1. Check for the error code.
   - D. Clear the error code with the approved diagnostic equipment. Run the machine under normal conditions and retest. If the error code does not display again or displays very infrequently, no action is necessary.
   - B. If the fault is still present, check to ensure that the driving conditions of the machine are not causing the error. If the driving conditions of the machine seem okay, download the correct level of software. If the fault reoccurs, remove and replace the engine controller.

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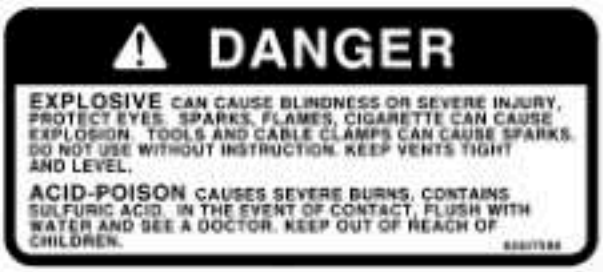
SAFETY DECALS

The following safety decals have been placed on your machine in the areas indicated. They are intended for your personal safety and for those working with you. Please take this manual and walk around your machine to note the content and location of these warning signs. Review these warning signs and the operating instructions detailed in this manual with your machine operators.

Keep the decals legible. If they are not, obtain replacements from your authorized dealer. The decal replacement part numbers are listed with each decal.



WARNING: Pull Only From Drawbar
PART NO: 86532904
LOCATION: PTO Shield



DANGER: Battery Safety
PART NO: 82037580
LOCATION: In Front of Battery



WARNING: Rotating Fan and Belts
PART NO: 86532907
LOCATION: Both sides of Radiator Shroud



WARNING: Before Starting and Operating
PART NO: 86401125 B
LOCATION: Left Side Pod



DANGER: ROPS
PART NO: 86543805_D
LOCATION: Top Under Side of ROPS

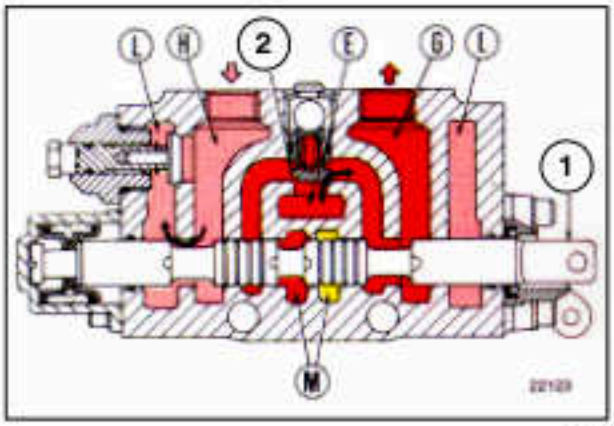
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DOUBLE-ACTING, THREE POSITION, SINGLE SPOOL REAR REMOTE VALVE (W/O KICK-OUT OR FLOAT)

Lift

Movement of the control lever rearward transmits to the auxiliary control valve spool, 1, via mechanical linkage. The position of the spool allows oil from the upper chamber of the lift cylinder to enter port (H) and exhaust through port (L). The pressure in port (E) exits through port (G) by way of the check valve, 2, to the lower chamber of the lift cylinder.

Keeping the control lever pulled back extends the cylinder through a full stroke. On releasing the lever, the spool return spring automatically returns the spool to the neutral position, which allows all oil from the pump to flow through port (M) and on to the lift control valve.

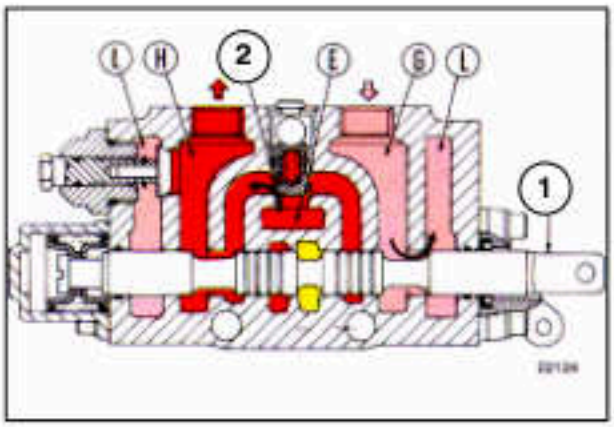


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Lower

Movement of the control lever forward transmits to the auxiliary control valve spool, 1, via mechanical linkage. The position of the spool allows oil from the upper chamber of the lift cylinder to enter port (G) and exhaust through port (L). The pressure in port (E) exits through port (H) by way of the check valve, 2, to the upper chamber of the lift cylinder.

Keeping the control lever pushed forward retracts the cylinder through a full stroke. On releasing the lever, the spool return spring automatically returns the spool to the neutral position, which allows all oil from the pump to flow through port (M) and on to the lift control valve.



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Pressurized oil

Oil in suction, delivery or exhaust

Static oil

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