
L160, L170 REPAIR MANUAL

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The following pages are the collation of the contents pages from each section and chapter of the L160, L170 Repair Manual. Complete Repair Manual part # 87634733.

The sections used through out all New Holland product Repair Manuals may not be used for each product. Each Repair Manual will be made up of one or several books.

Each book will be labeled as to which sections are in the overall Repair Manual and the sections that each book contains.

The sections listed above are the sections utilized for the L160, L170 Skid Steer.

SECTION 10 - ENGINE

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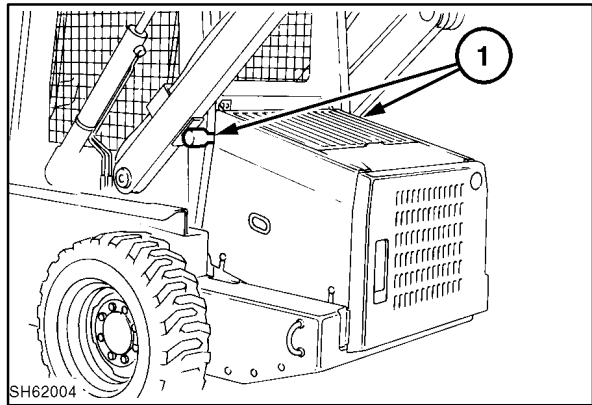
ENGINE REMOVAL

The engine can be removed from the loader by two methods:

Method 1: Removing the rear door, radiator, oil cooler, and support as an assembly.

Method 2: Tilting the cab and boom forward to gain access.

For either method, raise and support the boom on the boom lock pins, 1, to access the engine area.

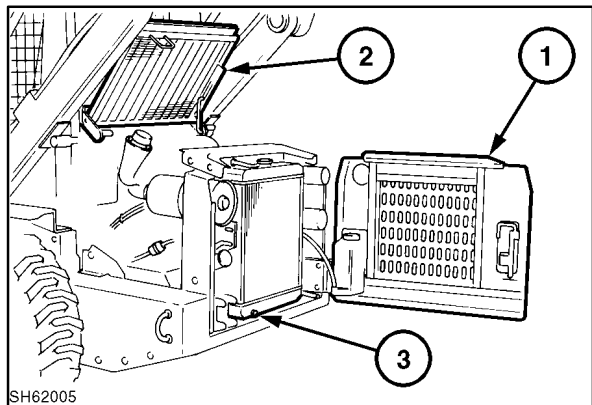


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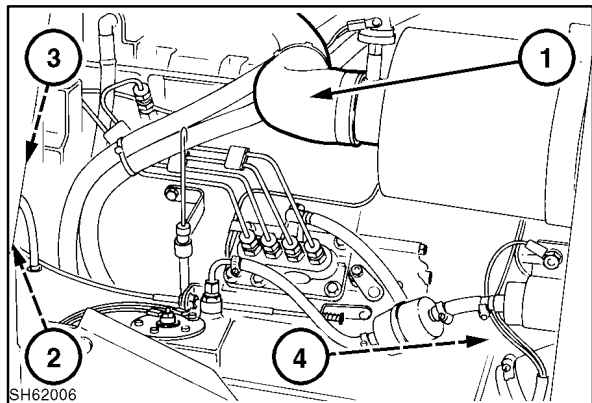
METHOD 1

(Without Tilting Cab)

1. Open rear door, 1. Remove the top engine hood, 2, and both the right and left engine side covers.
2. Remove the battery.
3. Drain the cooling system, radiator, and engine block, 3.
4. Remove the upper and lower radiator hoses from the engine block and plug the hoses with plastic plugs.
5. Remove the air cleaner hose, 1, from the intake manifold and cap.
6. Unplug the engine wire harness from the main harness, 2, and ground wires from the engine bellhousing, 3.
7. Unhook the control valve hydraulic oil return line at the oil cooler and cap, 4.



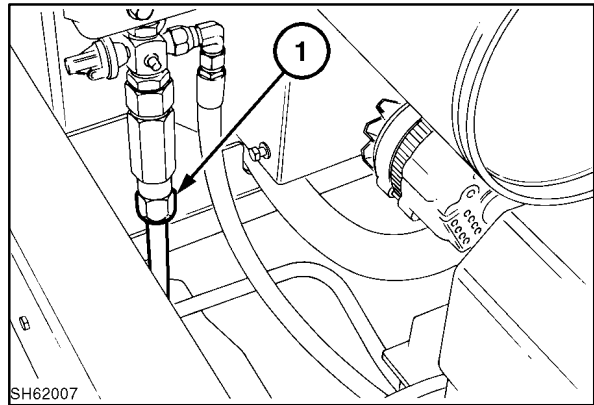
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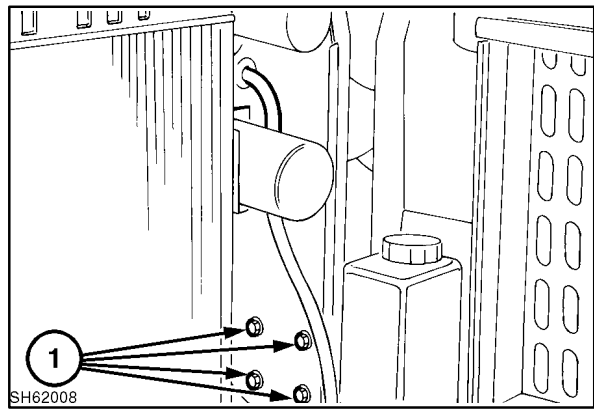
SECTION 10 - ENGINE

8. Unhook the hydraulic oil return line, 1, from the charge check valve and cap.



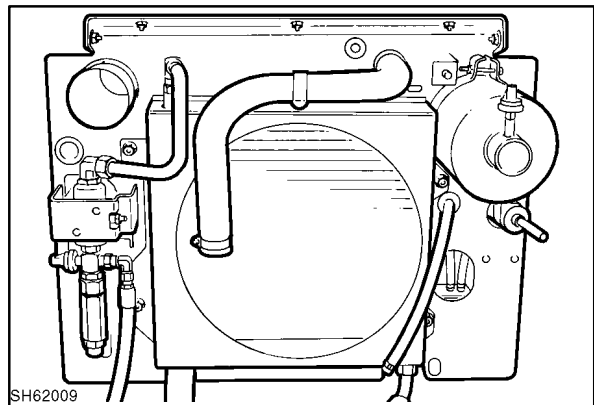
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9. Remove the eight 1/2" cap screws from the support at 1, both sides, and remove the radiator and oil cooler assembly.



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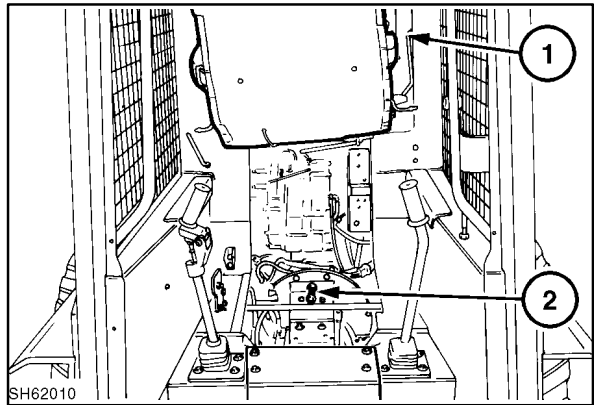
The support is shown removed with the air cleaner, radiator, oil cooler, oil filter, and fuel pump attached.



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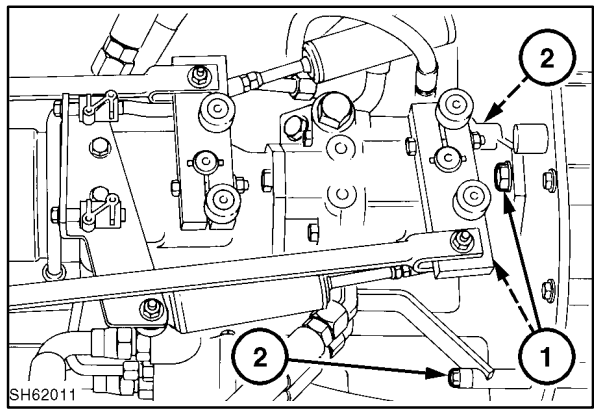
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10. Raise the seat to the raised latched position, 1, to access the hydrostatic pumps and engine bellhousing. Remove the neutralizer plate return spring and hardware, 2, from the bellhousing and remove plate.



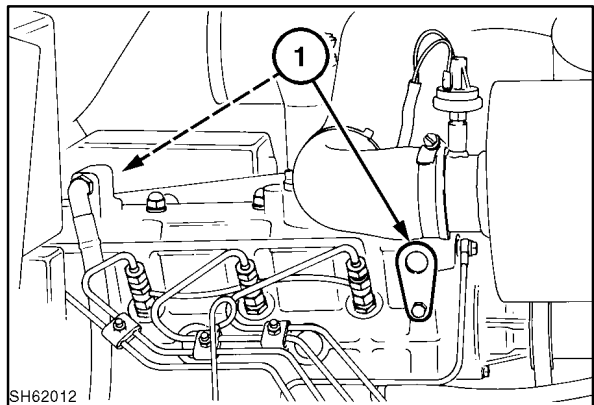
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Remove the hydrostatic pump to bellhousing and pump support retaining hardware at 1 and 2.



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11. Attach lifting chains to the engine lift eyes at 1, and hook to the lifting device to support the engine.
12. Remove the engine motor mount hardware and slide the engine to the rear to uncouple the hydrostatic pump assembly from the engine bellhousing. Lift the engine assembly from the skid steer frame.



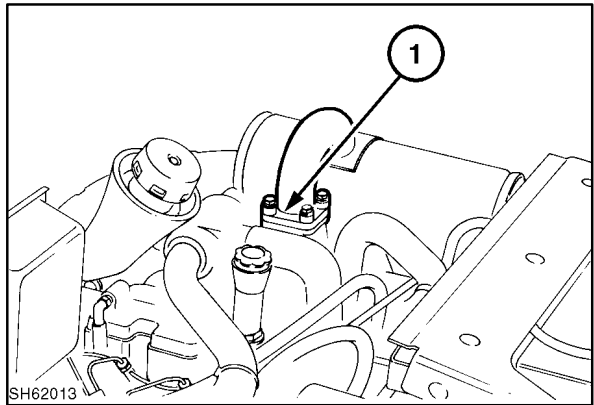
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METHOD 2

(Tilting Cab and Boom Forward)

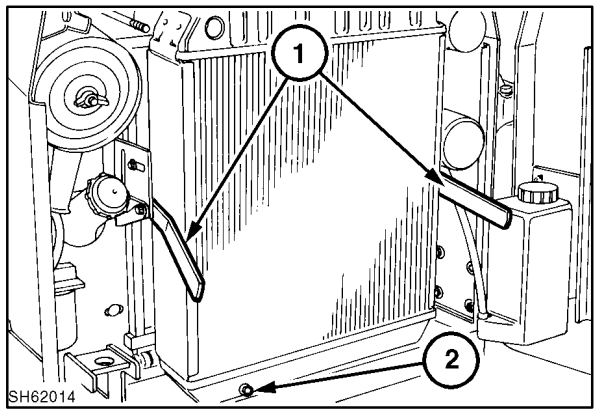
Follow the cab tilting procedure in Section 00 of this manual for proper instructions.

1. Remove the muffler from the exhaust manifold, 1.
2. Remove the battery.



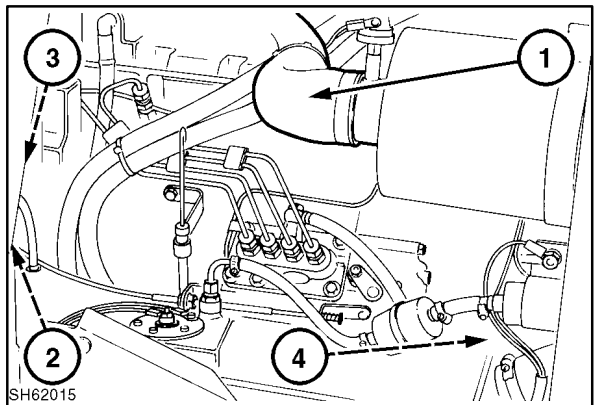
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3. Drain the cooling system, radiator and engine block, raise handles, 1, moving the radiator to the rear and drain the cooling system from drain plug, 2.
4. Remove the upper and lower radiator hoses from the engine block and plug the hoses with plastic plugs.



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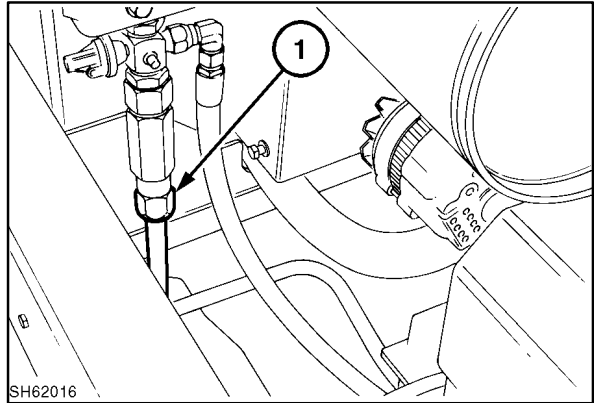
5. Remove the air cleaner hose, 1, from the intake manifold and cap.
6. Unplug the engine wire harness, 2, from the main harness and ground wires, 3, from the engine bellhousing.
7. Unhook the control valve hydraulic oil return line at the oil cooler and cap at 4.



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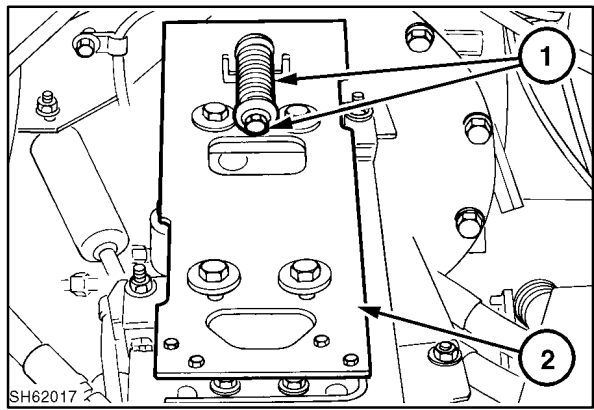
SECTION 10 - ENGINE

8. Unhook the hydraulic oil return line, 1, from the charge check valve and cap.
9. Remove the fan from the water pump shaft.
127(*The L160 N844 engine fan is equipped with a cover over the center of the fan.*



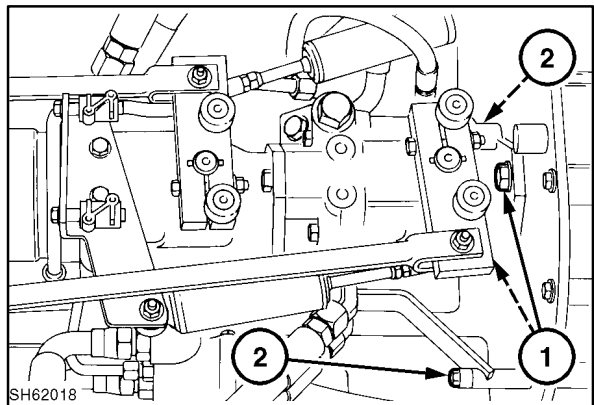
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10. Remove the neutralizer plate return spring and hardware, 1, from the bellhousing and remove plate, 2.



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11. Remove the hydrostatic pump to bellhousing and pump support retaining hardware at 1 and 2.



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