
T1010, T1030, T1110 REPAIR MANUAL COMPLETE CONTENTS

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The following pages are the collation of the contents pages from each section and chapter of the T1010, T1030, T1110 Repair manual. Complete Repair part # 87739173.

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 which sections are in each book.

The sections listed above are the sections utilized for the T1010, T1030, T1110 Tractors.

SAFETY

PRECAUTIONARY STATEMENTS

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions. To help prevent accidents, read the following precautions before operating this equipment. Equipment should be operated only by those who are responsible and instructed to do so.

Carefully review the procedures given in this manual with all operators. It is important that all operators be familiar with and follow safety precautions.

THE TRACTOR

1. Read the Operator's Manual carefully before using the tractor. Lack of operating knowledge can lead to accidents.
2. Use an approved roll bar and seat belt for safe operation. Overturning a tractor without a roll bar can result in death or injury. If your tractor is not equipped with a roll bar and seat belt, see your New Holland Dealer.
3. Always use the seat belt. The only instance when the seat belt should not be used is if the roll bar has been removed from the tractor.
4. If a front end loader is to be installed, always use a FOPS (Falling Object Protective Structure) canopy to avoid injury from falling objects.
5. Use the handholds and step plates when getting on and off the tractor to prevent falls. Keep steps and platform cleared of mud and debris.
6. Do not permit anyone but the operator to ride on the tractor. There is no safe place for extra riders.
7. Keep all safety decals clean of dirt and grime, and replace all missing, illegible, or damaged safety decals. See the list of decals in the Decal section of this manual.
3. Keep the tractor and equipment, particularly brakes and steering, maintained in a reliable and satisfactory condition to ensure your safety and comply with legal requirements.
4. Keep open flame or cold weather starting aids away from the battery to prevent fires or explosions. Use jumper cables according to instructions to prevent sparks which could cause explosion.
5. Stop the engine before performing any service on the tractor.
6. Escaping hydraulic/diesel fluid under pressure can penetrate the skin causing serious injury. If fluid is injected into the skin, obtain medical attention immediately or gangrene may result.
 - DO NOT use your hand to check for leaks. Use a piece of cardboard or paper to search for leaks.
 - Stop the engine and relieve pressure before connecting or disconnecting lines.
 - Tighten all connections before starting the engine or pressurizing lines.
7. Do not modify or permit anyone else to modify or alter this tractor or any of its components or functions without first consulting a New Holland Dealer.

SERVICING THE TRACTOR

1. The cooling system operates under pressure which is controlled by the radiator cap. It is dangerous to remove the cap while the system is hot. Always turn the cap slowly to the first stop and allow pressure to escape before removing the cap entirely.
2. Keep any type of open flame away from the tractor and do not smoke while refueling. Wait for the engine to cool before refueling.
8. The fuel oil in the injection system is under high pressure and can penetrate the skin. Unqualified persons should not remove or attempt to adjust a pump, injector, nozzle, or any other part of the fuel injection system. Failure to follow these instructions can result in serious injury.
9. Continuous long-term contact with used engine oil may cause skin cancer. Avoid prolonged contact with used engine oil. Wash skin promptly with soap and water.

10. Some components of your tractor, such as gaskets and friction surfaces (brake linings, clutch linings, etc.) may contain asbestos. Breathing asbestos dust is dangerous to your health. You are advised to have any maintenance or repair on such components carried out by an authorized New Holland Dealer. However, if service operations are to be undertaken on parts that contain asbestos, the essential precautions listed below must be observed:

- Work out of doors or in a well ventilated area.
- Dust found on the tractor or produced during work on the tractor should be removed by extraction, not by blowing.
- Dust waste should be dampened, placed in a sealed container, and marked to ensure safe disposal.
- If any cutting, drilling, etc. is attempted on materials containing asbestos, the item should be dampened and only hand tools or low speed power tools used.

OPERATING THE TRACTOR

1. Before starting the tractor, apply the parking brake, place the PTO lever in the "OFF" position, the lift control lever in the down position, the remote control valve levers in the neutral position, and the transmission in neutral.
2. Always sit in the tractor seat when starting the engine or operating controls. Do not start the engine or operate controls while standing beside the tractor.
3. Do not bypass the neutral start switches. Consult your New Holland Dealer if your neutral start controls malfunction. Use jumper cables only in the recommended manner. Improper use can result in tractor runaway.
4. Avoid accidental contact with the gear shift lever while the engine is running, as this can cause unexpected tractor movement.
5. Before getting off the tractor, disengage the PTO, turn the engine off, and apply the parking brake. Never get off the tractor while it is in motion.
6. Do not park the tractor on a steep incline.
7. Do not operate the tractor engine in an enclosed building without adequate ventila-

tion. Exhaust fumes can cause death or illness.

8. If the power steering or engine ceases operating, stop the tractor immediately.
9. Pull only from the drawbar or the lower link drawbar in the down position. Use only a drawbar pin that locks in place. Pulling from the tractor rear axle or any point above the axle may cause the tractor to upset.
10. If the front end of the tractor tends to rise when heavy implements are attached to the three-point hitch, install front end or front wheel weights. Do not operate the tractor with a light front end.
11. Always set the hydraulic selector lever in position control when attaching or transporting equipment. Ensure hydraulic couplers are properly mounted and will disconnect safely in case of accidental detachment of implement.
12. Do not leave equipment in the raised position.
13. Use the flasher/turn signal lights and SMV signs when traveling on public roads both day and night (unless prohibited by law).
14. When operating at night, adjust lights to prevent blinding oncoming drivers.

DRIVING THE TRACTOR

1. Watch where you are going, especially at row ends, on roads, around trees and low hanging obstacles.
2. To avoid upsets, drive the tractor with care and at a safe speed. Use extra caution when operating over rough ground, when crossing ditches or slopes, and when turning corners.
3. To provide two-wheel braking, one pedal actuates both brakes.
4. Do not coast or free wheel down hills. Use the same gear when going downhill as is used when going uphill.
5. Any towed vehicle with a total weight exceeding that of the towing tractor should be equipped with brakes for safe operation.
6. If the tractor becomes stuck or the tires become frozen to the ground, back up the tractor to prevent upset.

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7. Always check overhead clearance, especially when transporting the tractor.
8. When operating at night, adjust lights to prevent blinding oncoming drivers.

OPERATING THE PTO

1. When operating PTO driven equipment, shut off the engine and wait until the PTO stops before getting off the tractor and disconnecting the equipment.
2. Do not wear loose clothing when operating the power take-off or when near rotating equipment.
3. When operating stationary PTO driven equipment, always place both gear shift levers in neutral, apply the tractor parking brake, and block the rear wheels front and back.
4. To avoid injury, do not clean, adjust, unclog, or service PTO driven equipment when the tractor engine is running.
5. Ensure the PTO master shield is installed at all times. Always replace the PTO shield cap when the PTO is not in use.

DIESEL FUEL

1. UNDER NO CIRCUMSTANCES should gasoline, alcohol, or blended fuels be added to diesel fuel. These combinations can create an increased fire or explosive hazard. Such blends are more explosive than pure gasoline in a closed container such as a fuel tank. **DO NOT USE THESE BLENDS.**
2. Never remove the fuel cap or refuel with the engine running or hot.
3. Do not smoke while refueling or when standing near fuel.
4. Maintain control of the fuel filler pipe nozzle when filling the tank.

5. Do not fill the fuel tank to capacity. Allow room for expansion.
6. Wipe up spilled fuel immediately.
7. Always tighten the fuel tank cap securely.
8. If the original fuel tank cap is lost, replace it with a New Holland approved cap. A non-approved, proprietary cap may not be safe.
9. Keep equipment clean and properly maintained.
10. Do not drive equipment near open fires.
11. Never use fuel for cleaning purposes.
12. Arrange fuel purchases so that winter grade fuels are not held over and used in the spring.

SAFETY FRAME (ROPS)

Your New Holland tractor is equipped with a safety frame. It must be maintained in a serviceable condition. Be careful when driving through doorways or working in confined spaces with low headroom.

UNDER NO CIRCUMSTANCES should you:

- modify, drill, or alter the safety frame in any way. Doing so may render you liable to legal prosecution.
- attempt to straighten or weld any part of the main frame or retaining brackets which have suffered damage. Doing so may weaken the structure and endanger your safety.
- secure any parts on the main frame or attach your safety frame with anything other than the special high tensile bolts and nuts specified.
- attach chains or ropes to the main frame for pulling purposes.
- take unnecessary risks even though your safety frame affords you the maximum protection possible.



WHEN YOU SEE THIS SYMBOL

IT MEANS:

ATTENTION!

BECOME ALERT!

YOUR SAFETY IS INVOLVED!

ECOLOGY AND THE ENVIRONMENT

Soil, air, and water are vital factors of agriculture and life in general. When legislation does not yet rule the treatment of some of the substances which are required by advanced technology, common sense should govern the use and disposal of products of a chemical and petrochemical nature.

The following are recommendations which may be of assistance:

- Become acquainted with and ensure that you understand the relative legislation applicable to your country.
- Where no legislation exists, obtain information from suppliers of oils, filters, batteries, fuels, antifreeze, cleaning agents, etc., with regard to their effect on man and nature and how to safely store, use and dispose of these substances. Agricultural consultants will, in many cases, be able to help you as well.

HELPFUL HINTS

1. Avoid filling fuel tanks using cans or inappropriate pressurized fuel delivery systems which may cause considerable spillage.

2. In general, avoid skin contact with all fuels, oils, acids, solvents, etc. Most of them contain substances which may be harmful to your health.
3. Modern oils contain additives. Do not burn contaminated fuels and or waste oils in ordinary heating systems.
4. Avoid spillage when draining off used engine coolant mixtures, engine, gearbox and hydraulic oils, brake fluids, etc. Do not mix drained brake fluids or fuels with lubricants. Store them safely until they can be disposed of in a proper way to comply with local legislation and available resources.
5. Modern coolant mixtures, i.e. antifreeze and other additives, should be replaced every two years. They should not be allowed to get into the soil but should be collected and disposed of safely.
6. Repair any leaks or defects in the engine cooling or hydraulic system immediately.
7. Do not increase the pressure in a pressurized circuit as this may lead to a component failure.
8. Protect hoses during welding as penetrating weld splatter may burn a hole or weaken them, allowing the loss of oils, coolant, etc.

SECTION 10 - ENGINE SYSTEMS

Chapter 1 - Engine Systems

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SECTION 10 - ENGINE SYSTEMS - CHAPTER 1

SPECIFICATIONS

GENERAL			
Tractor Model	T1010	T1030	T1110
PTO H.P.	20.0	26.0	28.0
Engine Model	S753	S773L	S773L
Number of Cylinders	3	3	3
Bore x Stroke	75 x 72 mm (2.96 x 2.83 in.)	77 x 81 mm (3.03 x 3.19 in.)	77 x 81 mm (3.03 x 3.19 in.)
Displacement	0.95 L, 954 cc (58.2 cu. in.)	1.13 L, 1131 cc (69.0 cu. in.)	1.13 L, 1131 cc (69.0 cu. in.)
Compression Ratio	23.5:1	22.8:1	22.8:1
Rated Speed (rpm)	3000	3000	3000
Muffler	In the hood	In the hood	In the hood
Firing Order	1 - 2 - 3	1 - 2 - 3	1 - 2 - 3
Low Idle Speed (rpm)	1350 ± 50	1350 ± 50	1350 ± 50
High Idle Speed (rpm)	3250 ± 25	3350 ± 25	3350 ± 25
Cylinder Arrangement	In-line Vertical	In-line Vertical	In-line Vertical
Valve Arrangement	Overhead	Overhead	Overhead
Compression Pressure @ 200 rpm (cylinder speed) Variation between cylinders	427 ± 70 psi 70 psi	427 ± 70 psi 70 psi	427 ± 70 psi 70 psi

CYLINDER HEAD			
Tractor Model	T1010	T1030	T1110
Head Warp Standard Maximum	0.05 mm (0.002 in.) 0.12 mm (0.005 in.)	0.05 mm (0.002 in.) 0.12 mm (0.005 in.)	0.05 mm (0.002 in.) 0.12 mm (0.005 in.)
Valve Seat Width Standard Maximum	1.7 - 2.1 mm (0.067 - 0.082 in.) 2.5 mm (0.098 in.)	1.7 - 2.1 mm (0.067 - 0.082 in.) 2.5 mm (0.098 in.)	1.7 - 2.1 mm (0.067 - 0.082 in.) 2.5 mm (0.098 in.)
Valve Seat Sink Standard Maximum	0.85 - 1.15 mm (0.0334 - 0.0453 in.) 1.8 mm (0.0708 in.)	0.85 - 1.15 mm (0.0334 - 0.0453 in.) 1.8 mm (0.0708 in.)	0.85 - 1.15 mm (0.0334 - 0.0453 in.) 1.8 mm (0.0708 in.)
Valve Angle	45°	45°	45°
Piston to Valve Clearance	1.0 mm (0.039 in.) @ Piston TDC (Minimum 0.8 mm [0.031 in.])	1.0 mm (0.039 in.) @ Piston TDC (Minimum 0.8 mm [0.031 in.])	1.0 mm (0.039 in.) @ Piston TDC (Minimum 0.8 mm [0.031 in.])

SECTION 10 - ENGINE SYSTEMS - CHAPTER 1

CYLINDER BLOCK			
Tractor Model	T1010	T1030	T1110
Bore			
Standard	75.0 - 75.019 mm (2.952 - 2.953 in.)	77.0 - 77.019 mm (3.031 - 3.032 in.)	77.0 - 77.019 mm (3.031 - 3.032 in.)
Maximum	75.2 mm (2.960 in.)	77.2 mm (3.039 in.)	77.2 mm (3.039 in.)
Head Surface Warp			
Standard	0.05 mm (0.002 in.)	0.05 mm (0.002 in.)	0.05 mm (0.002 in.)
Maximum	0.12 mm (0.005 in.)	0.12 mm (0.005 in.)	0.12 mm (0.005 in.)

*T1010 - If bore size exceeds 75.2 mm (2.96 in.) replace the block.

*T1030 - If bore size exceeds 77.2 mm (3.039 in.) replace the block.

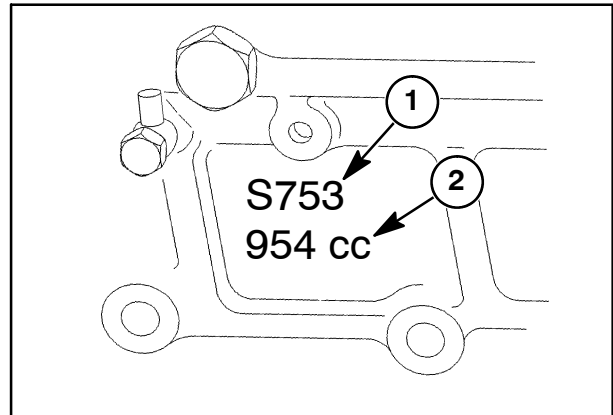
*T1110 - If bore size exceeds 77.2 mm (3.039 in.) replace the block.

PISTON			
Tractor Model	T1010	T1030	T1110
Diameter			
Standard	74.9325 - 74.9475 mm (2.95 - 2.9506 in.)	76.9325 - 76.9475 mm (3.029 - 3.0294 in.)	76.9325 - 76.9475 mm (3.029 - 3.0294 in.)
Minimum	74.7 (2.941 in.)	76.7 (3.0197 in.)	76.7 (3.0197 in.)
Bore Clearance			
Standard	0.0525 - 0.0865 mm (0.0021 - 0.0034 in.)	0.0525 - 0.0865 mm (0.0021 - 0.0034 in.)	0.0525 - 0.0865 mm (0.0021 - 0.0034 in.)
Maximum	0.25 mm (0.010 in.)	0.25 mm (0.010 in.)	0.25 mm (0.010 in.)
Wrist Pin Bore			
Standard	20.998 - 21.004 mm (0.8267 - 0.8269 in.)	20.998 - 21.004 mm (0.8267 - 0.8269 in.)	20.998 - 21.004 mm (0.8267 - 0.8269 in.)
Maximum	21.016 mm (0.827 in.)	21.016 mm (0.827 in.)	21.016 mm (0.827 in.)
Wrist Pin Diameter			
Standard	20.998 - 21.002 mm (0.8267 - 0.8268 in.)	20.998 - 21.002 mm (0.8267 - 0.8268 in.)	20.998 - 21.002 mm (0.8267 - 0.8268 in.)
Minimum	20.98 mm (0.826 in.)	20.98 mm (0.826 in.)	20.98 mm (0.826 in.)
Wrist Pin Clearance			
Standard	-0.004 - 0.006 mm (-0.00016 - 0.00024 in.)	-0.004 - 0.006 mm (-0.00016 - 0.00024 in.)	-0.004 - 0.006 mm (-0.00016 - 0.00024 in.)
Maximum	0.02 mm (0.00078 in.)	0.02 mm (0.00078 in.)	0.02 mm (0.00078 in.)
Available Oversizes	Not Available	Not Available	Not Available

GENERAL INFORMATION - DESCRIPTION OF OPERATION

This section describes the engine overhaul and repair procedures of the T1010, T1030, and T1110 series tractors. Repair procedures are essentially the same for all models except as noted in the repair procedures.

The tractors are equipped with three-cylinder in-line engines. They are all four cycle, overhead valve, liquid cooled engines. The engines are identified by a code, 1, cast into the lower right side of the cylinder block, just behind the hydraulic pump. The identification numbers of the engines used are shown in the following chart.



NOTE: Numeric value, 2, under the Engine Code indicates displacement of the engine in liters.

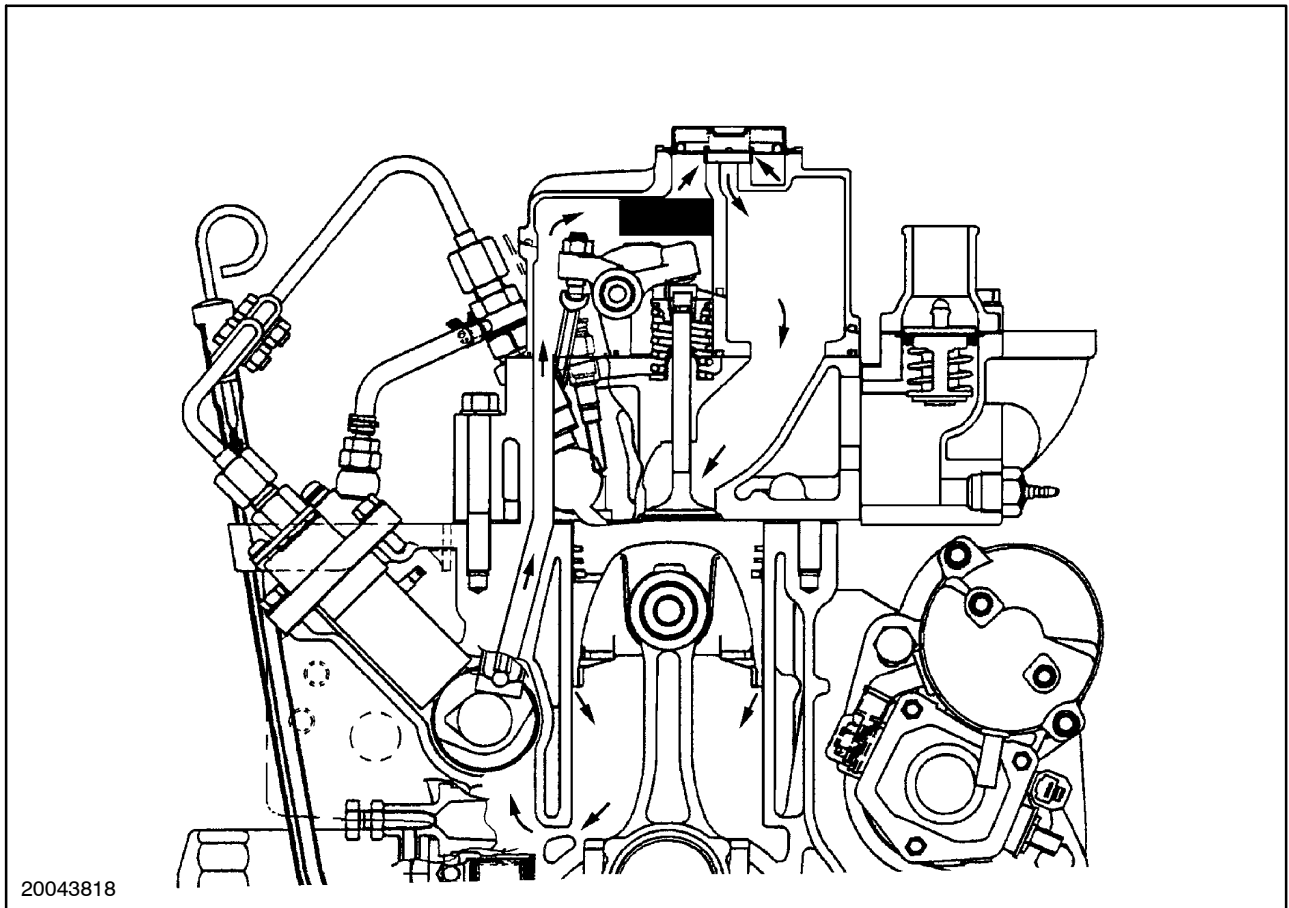
IDENTIFICATION CHART

Engine Identification	Tractor Model	Horsepower
S753	T1010	20.0
S773L	T1030	26.0
S773L	T1110	28.0

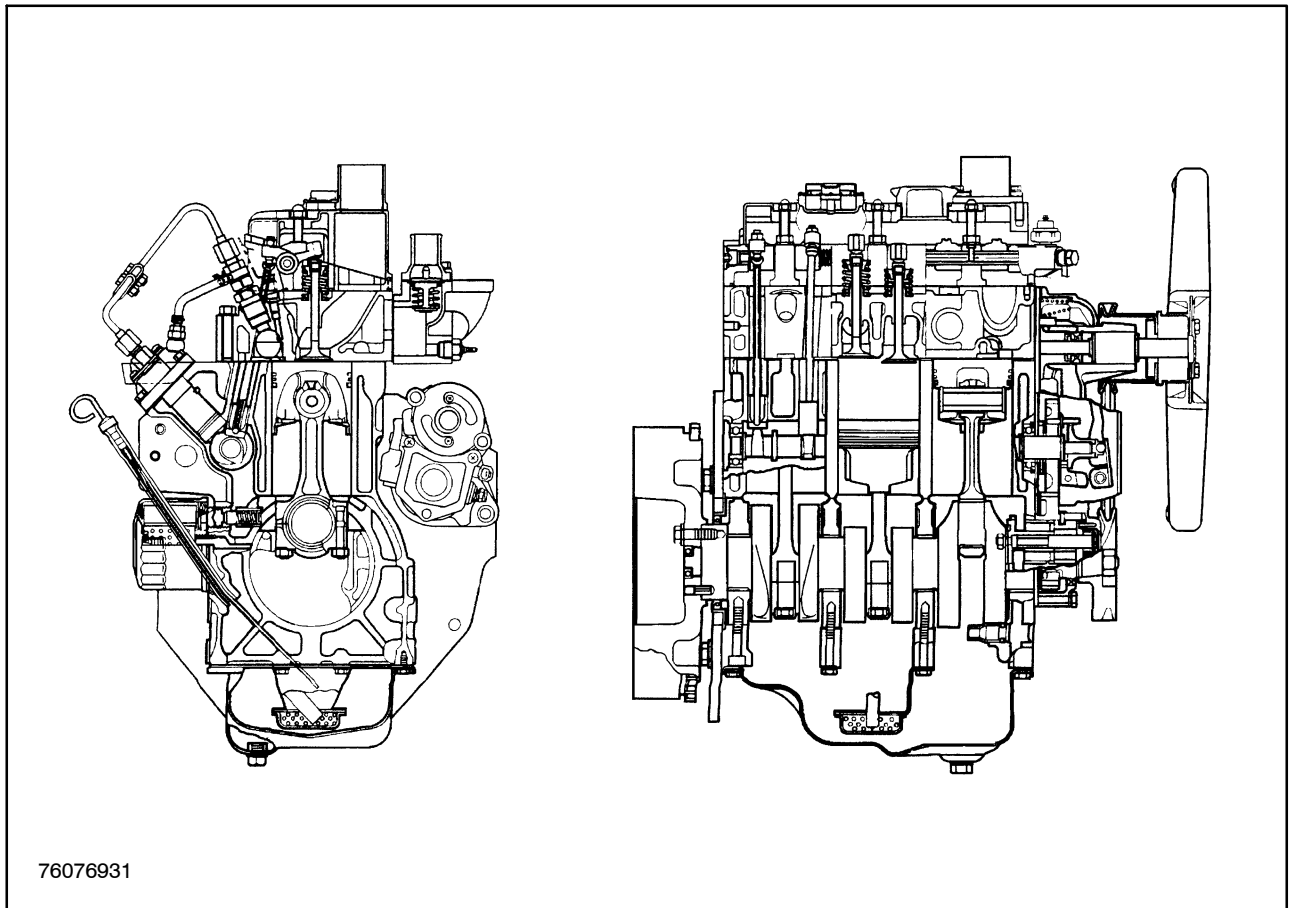
CYLINDER HEAD AND VALVE TRAIN COMPONENTS

The cylinder head incorporates the valve assemblies, rocker arms, rocker shaft, push rods, lifters, and pre-combustion chambers. The air intake manifold is incorporated into the top left hand side of the valve cover assembly. The exhaust manifold is bolted on the left-hand side of the cylinder head. The cylinder heads have integral valve guides. Standard size valves only are used. Figure 3 provides a cut-away front and side view of an engine.

A pre-combustion chamber is located between the injector assembly and the combustion chamber of the cylinder and provides an area for initial ignition of the fuel for improved starting. A glow plug located in the head extends into the pre-combustion chamber and, when energized, pre-heats the fuel-air mixture for improved fuel ignition under cold weather conditions.



A breather valve is located on the valve cover. The valve opens when the crank housing pressure rises and the gas runs away to the intake manifold. The gas flows into the cylinder and is exhausted as exhaust fumes.



3

CYLINDER BLOCK ASSEMBLY

The cylinder block assembly contains the pistons, connecting rods, crankshaft, timing gears, and engine oil pump. The engine crankshaft is supported by four main bearings. The front main bearing is a full circle bearing positioned in a bore in the front of the block. The second, third, and fourth main bearings are split liners located in holders bolted to the block. The camshaft is supported by two ball bearings one located on each end of the block. The engines utilize a straight connecting rod and a three ring piston.



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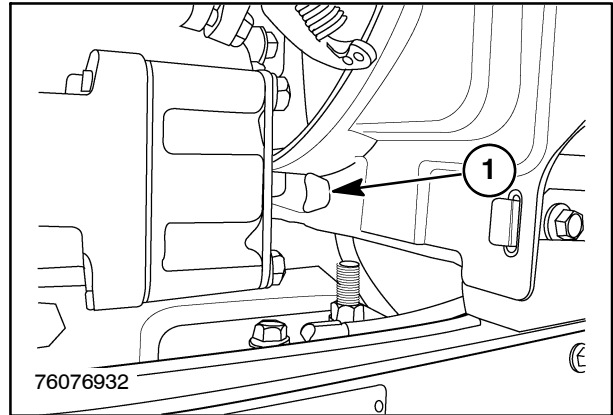
ENGINE ACCESS

Disassembly

1. Remove the engine compartment side panels.
2. Open the radiator drain, 1, and drain the coolant from the radiator.

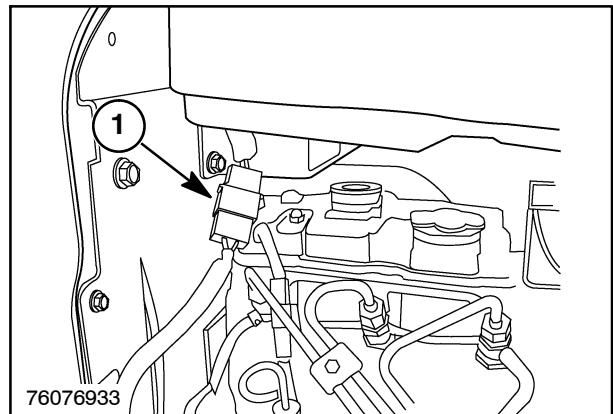
NOTE: The cooling system capacity is 3.5 L (3.69 qt.).

3. Remove the radiator assembly. See "Radiator Removal", discussed later in this section.



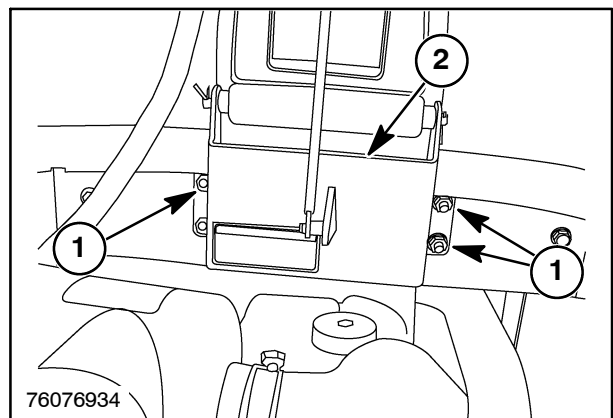
4

4. Disconnect the electrical connector, 1, joining the headlamp wiring harness to the main harness.



5

5. Remove the four hex nuts, 1, securing the hood hinge bracket, 2, to the firewall support, and carefully remove the hood with the hinge bracket attached.



6

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