
TD75D, TD95D, TD95D HIGH CLEARANCE 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 TD75D, TD95D, and TD95D High Clearance Repair manual. Complete Repair part # 87572972.

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 TD75D, TD95D, and TD95D High Clearance Tractors.

SECTION 00 - GENERAL

Chapter 1 - General

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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. Only allow properly trained and qualified persons to operate the tractor.
3. To prevent falls, use the handrails and step plates when getting on and off the tractor. Keep steps and platform clear of mud and debris.
4. Do not permit anyone but the operator to ride on the tractor unless a passenger seat is fitted. There is no safe place for extra riders otherwise.
5. Replace all missing, illegible or damaged safety decals.
6. Keep safety decals free of dirt or grime.
7. Do not modify or alter or permit anyone else to modify or alter the tractor or any of its components or any tractor function without first consulting your dealer.
8. Tractor wheels are very heavy. Handle with care and ensure, when stored, that they cannot fall.

DRIVING THE TRACTOR

1. Always sit in the drivers seat while starting or driving the tractor.
2. When driving on public roads, have consideration for other road users. Pull off the road occasionally to allow any following traffic to pass. Do not exceed the legal speed limit set in your area.
3. Use low beam lights when meeting a vehicle at night. Make sure the lights are adjusted to prevent blinding the driver of an oncoming vehicle
4. Reduce speed before turning or applying the brakes. Ensure that both brake pedals are locked together when traveling at road speeds or when

on public roads. Brake both wheels simultaneously when making an emergency stop.

5. Use extreme caution and avoid hard application of the tractor brakes when towing heavy loads at road speeds.
6. Any towed vehicle whose total weight exceeds that of the towing tractor must be equipped with brakes for safe operation.
7. Never apply the differential lock when turning. When engaged, the differential lock will prevent the tractor from turning.
8. Always check overhead clearance, specifically when transporting the tractor. Watch where you are going, especially at low overhanging obstacles.
9. Use extreme caution when operating on steep slopes.
10. To avoid overturns, drive the tractor with care and at speeds compatible with safety, especially when operating over rough ground, when crossing ditches or slopes and when turning.
11. If the tractor becomes stuck or the tires are frozen to the ground, reverse the tractor out to prevent corners.
12. Keep the tractor in the same gear when going downhill as would be used when going uphill. Do not coast or freewheel down hills.

OPERATING THE TRACTOR

1. Apply the parking brake, place the PTO control in the 'OFF' position, the lift control lever in the down position, the remote control valve levers in the neutral position and the transmission lever in neutral before starting the tractor.
2. Do not start the engine or operate controls while standing beside the tractor. Always sit in the tractor seat when starting the engine or operating the controls.

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3. Do not bypass the neutral start switches. Consult your authorized dealer if your neutral start controls malfunction. Use jump cables only in the recommended manner. Improper use can result in a tractor runaway.
4. Avoid accidental contact with the gear shift levers while the engine is running. Unexpected tractor movement can result from such contact.
5. Do not get off the tractor while it is in motion.
6. Shut off the engine and PTO and apply the parking brake before getting off the tractor.
7. Do not park the tractor on a steep incline.
8. Do not run the tractor engine in an enclosed building without adequate ventilation. Exhaust fumes are toxic and can cause death.
9. Always wear a protective mask when working with toxic spray chemicals. Follow the directions on the chemical container.
10. If the power steering or engine ceases operating, stop the tractor immediately as the tractor will be more difficult to control.
11. Stop the engine and relieve pressure before connecting or disconnecting hydraulic, steering or fuel lines.
12. Tighten all connections before starting the engine or pressurizing lines.
13. Pull only from the swinging drawbar or the lower link drawbar in the lowered 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 overturn.
14. 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.
15. Always select Position Control when attaching implements and when transporting equipment. Be sure hydraulic couplers are properly installed and will disconnect safely in case of accidental detachment of the implement.
16. Do not leave equipment in the raised position when the vehicle is stopped or unattended.
17. Ensure any attached equipment or accessories are correctly installed, are approved for use with the tractor, do not overload the tractor and are operated and maintained in accordance with the instructions issued by the equipment or accessory manufacturer.
18. Remember that your tractor, if abused or incorrectly used, can be dangerous and become

a hazard both to the operator and to bystanders. Do not overload or operate with attached equipment which is unsafe, not designed for the particular task or is poorly maintained.

19. The tractor is designed to provide the minimum noise level at the operator's ears and meets or exceeds applicable standards in this respect. However, noise (sound pressure level) in the workplace can exceed 86 dB(A) when working between buildings or in confined spaces. Therefore, it is recommended that operators wear suitable ear protectors during vehicle operation.

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 especially when near rotating equipment.
3. When operating stationary PTO driven equipment, always 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. Make sure the PTO guard is in position at all times and always replace the PTO cap when the PTO is not in use.

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 the pressure to escape before removing the cap entirely.
2. Do not smoke while refueling the tractor. Keep any type of open flame away. Wait for the engine to cool before refueling.
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. To prevent fire or explosion, keep open flames away from battery or cold weather starting aids. To prevent sparks which could cause explosion, use jumper cables according to instructions.
5. Stop the engine before performing any service on the tractor.

6. Escaping diesel/hydraulic fluid under pressure can penetrate the skin causing serious injury.
 - **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.
 - If fluid is injected into the skin obtain medical attention immediately.
 7. Do not modify or alter or permit anyone else to modify or alter the tractor or any of its components or any tractor function without first consulting an authorized dealer.
 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 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.
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 an approved cap. A non-approved 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 summer grade fuels are not used in the winter.

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. In a closed container such as a fuel tank these blends are more explosive than pure gasoline. 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 the tractor or when standing near fuel. Keep any type of open flame away. Wait for the engine to cool before refueling.
4. Maintain control of the fuel filter pipe nozzle when filling the tank.

ROPS

The tractor may be equipped with a safety frame (ROPS) which must be maintained in a serviceable condition. Be careful when driving through doorways or working in confined spaces with low headroom.

1. Do not modify, drill, weld or alter the ROPS in any way.
2. Never attempt to straighten or weld the ROPS or retaining brackets, which have suffered damage. By doing so you may weaken the structure and endanger your safety.
3. Do not secure any parts on the ROPS or attach it with other than the special high tension bolts and nuts specified.
4. Never attach chains or ropes to the safety frame or roll bar for pulling purposes.
5. Never take unnecessary risks even though your safety frame or roll bar affords you the maximum protection possible.
6. Whenever possible, operate with the ROPS in its fully upright and locked position.

SECTION 10 - ENGINE

Chapter 1 - Engine

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SPECIFICATIONS

Engine Type:	
- Models TD75D	8045.05R.939
- Models TD95D	8045.25L.939
Cycle	diesel, 4-stroke
Fuel injection	direct
Number of cylinders in line	4
Piston diameter	
- Models TD75D	104 mm (4.0944 in.)
- Models TD95D	104 mm (4.0944 in.)
Piston stroke	115 mm (4.5275 in.)
Total displacement:	
- Models TD75D	3908 cm ³ (238 cu. in.)
- Models TD95D	3908 cm ³ (238 cu. in.)
High idle speed	2450 to 2500 rpm
Low idle speed	625 to 675 rpm
Compression ratio Model TD75D	17:1 naturally aspirated
Compression ratio for Model TD95D	16.5:1 turbocharged
Maximum power:	
- Models TD75D	gross 58.8 kW (80 hp)
- Models TD95D	gross 69.1 kW (94 hp)
Maximum power speed	2300 rpm
Maximum engine torque for Models TD75D @ 1400 rpm	282 N·m (208 lb-ft)
Maximum engine torque for Models TD95D @ 1400 rpm	365 N·m (269 lb-ft)
Number of main bearings	5
Sump pan	structural, cast iron

Rev counter/hourmeter	incorporated in control panel
Operating system	from gear on camshaft
Hour counter calibrated for engine speed of	1800 rpm

(continued)

OVERHAUL

ENGINE

Removal

**DANGER**

Lift and handle all heavy parts using suitable lifting equipment.

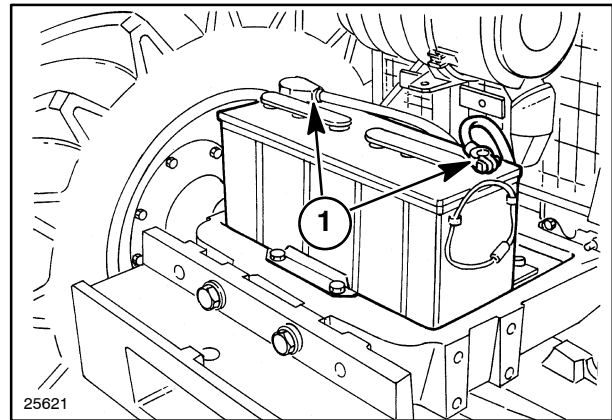
Make sure that the load is supported by means of suitable slings and hooks.

Make sure that no-one is standing in the vicinity of the load to be lifted.

**CAUTION**

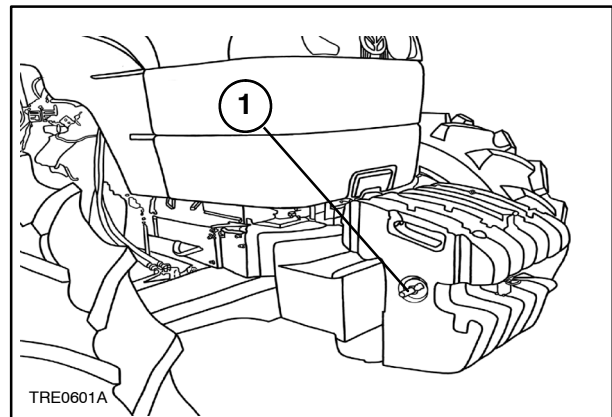
Always use suitable tools to align holes in parts.
NEVER USE YOUR FINGERS OR HANDS.

1. Drain oil from the transmission/gearbox.
2. Drain the cooling system.



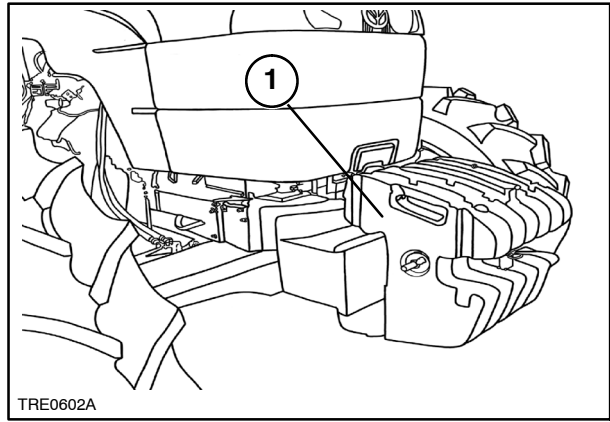
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3. Unscrew the nut (1) from the front ballast retaining pin.



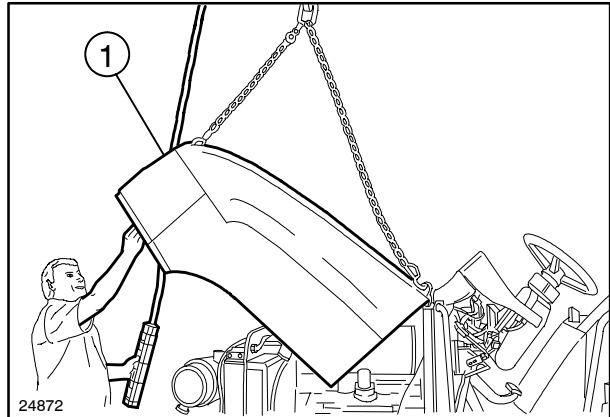
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4. Remove the ballast (1) from the front support.



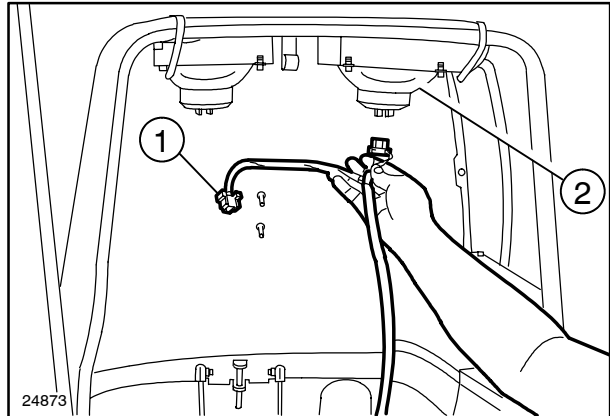
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5. Remove the exhaust pipe. Attach lifting chains to the hood (1) using tools 50131 and 50132 and attach the chain to the hoist.



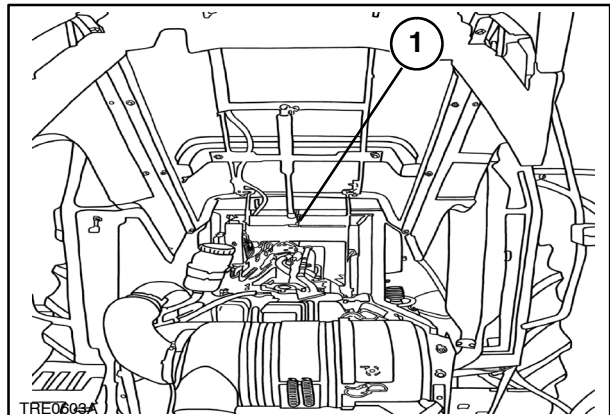
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6. Detach the electrical leads (1) from the headlamps (2).



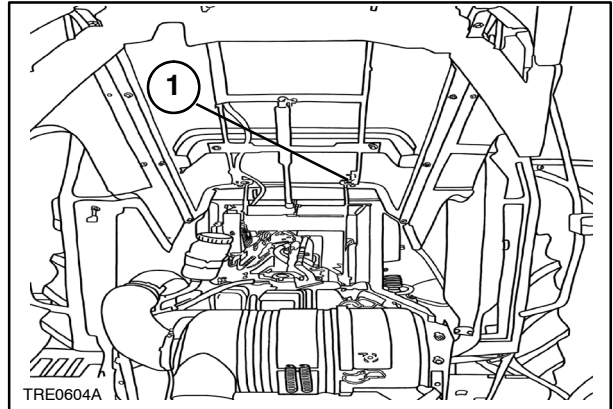
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7. Detach the struts (1) from hood.



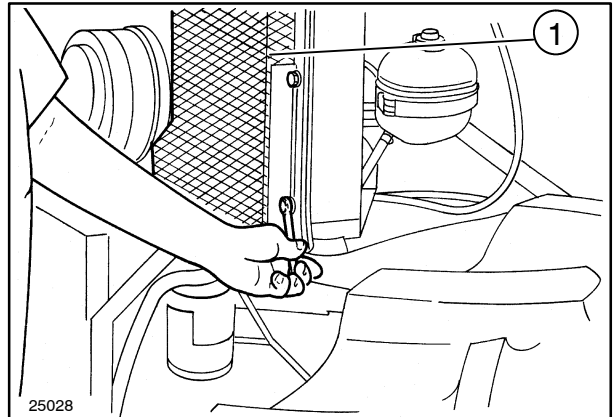
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8. Remove the four hood hinge bolts (1) and lift the hood clear.



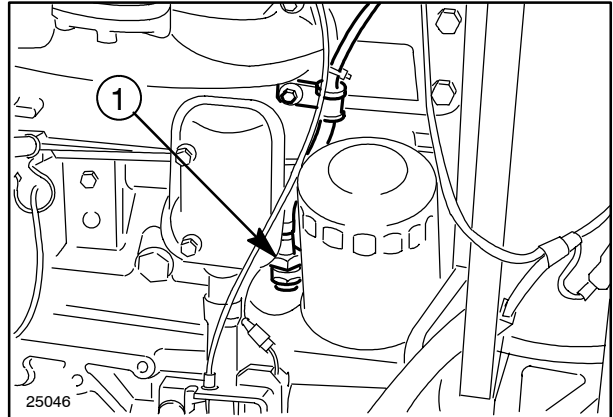
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9. Remove the fan guard (1) from right-hand side of the fan.



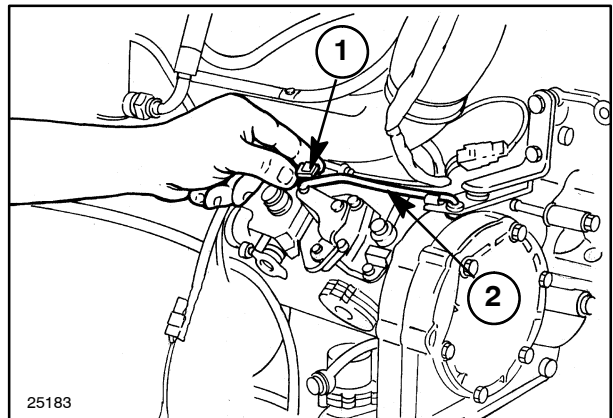
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10. Disconnect the tachometer cable (1) and remove the retaining ring and sleeve.



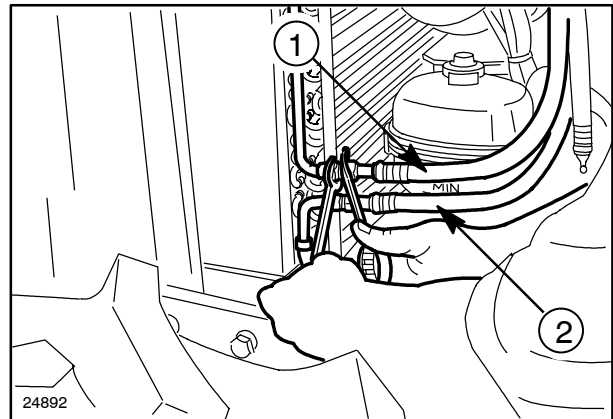
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11. Detach the throttle control spring (1) and remove the throttle lever (2).



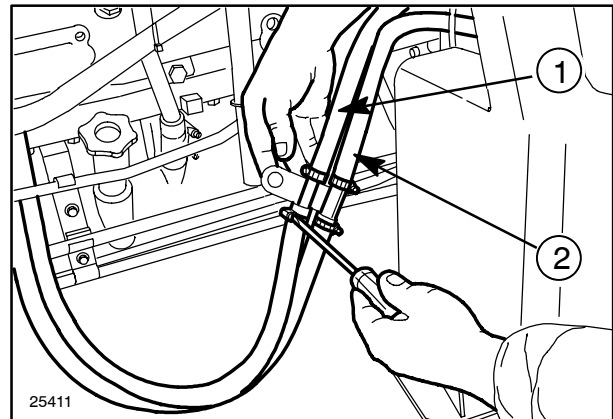
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12. Detach the cab air-conditioning pipes (1) and (2) (if applicable).



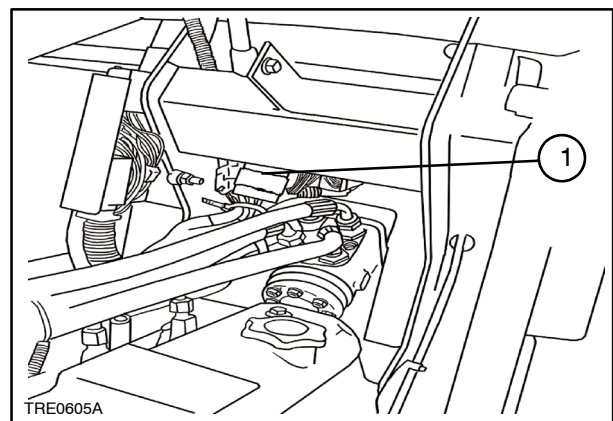
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13. Detach the cab heating pipes (1) and (2) (if applicable).



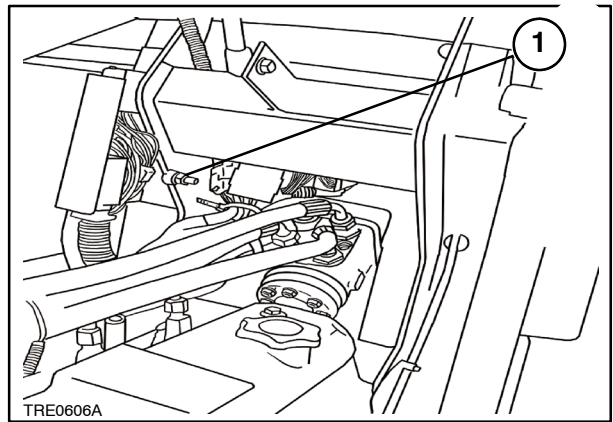
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14. Disconnect the main harness electrical connectors.



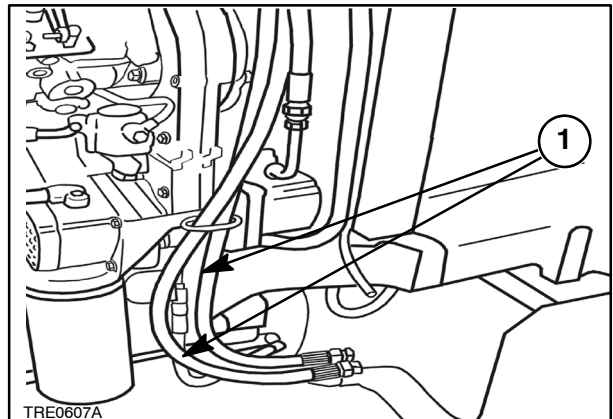
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15. Remove the fusebox by unscrewing the nut (1)



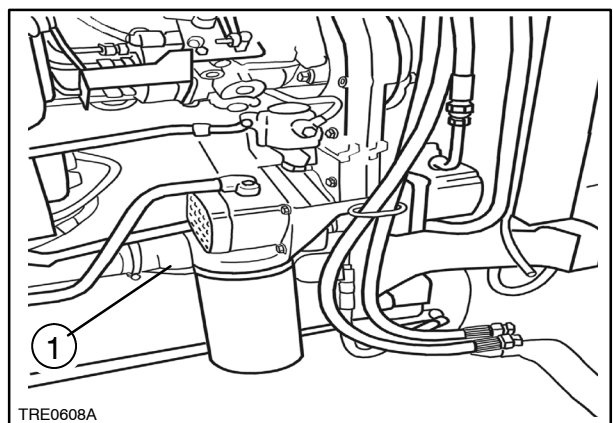
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16. Disconnect the delivery and return lines (1) to the power steering cylinders.



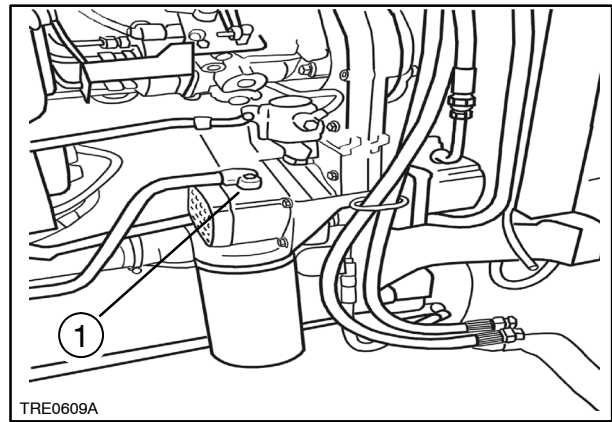
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17. Remove the supply hose (1) from the lift pump.



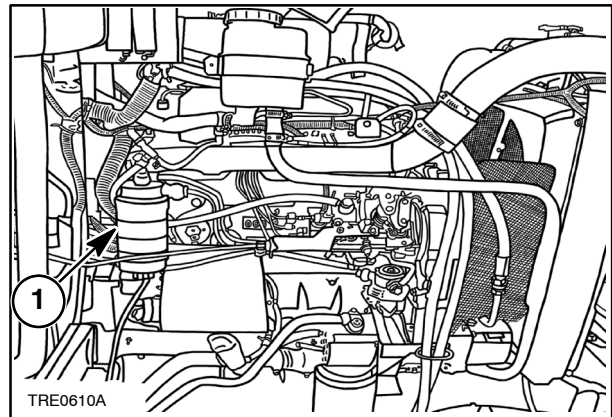
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18. Detach the lift pump delivery pipe (1).



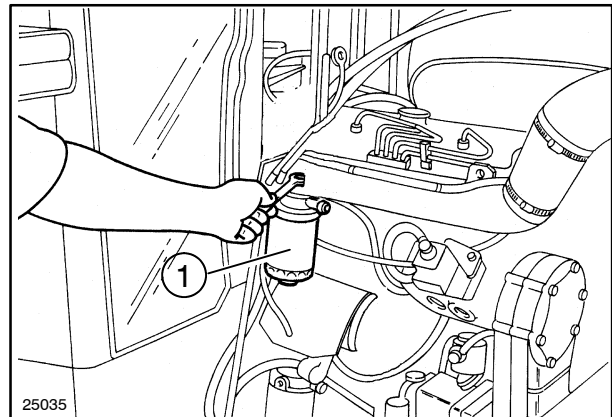
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19. Detach the fuel pipes from the fuel injection pump and the pipe connecting the fuel tank to the fuel filter (1).



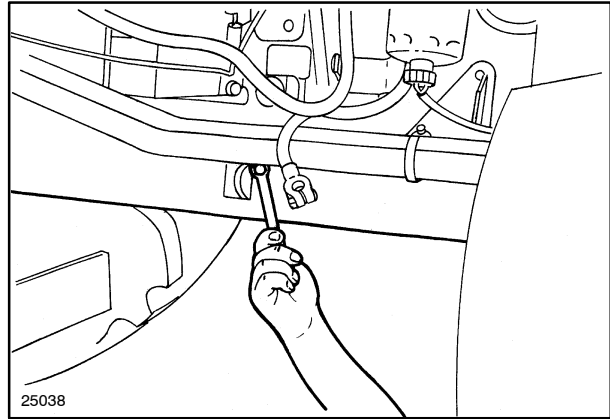
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20. Remove the fuel filter (1) and support.



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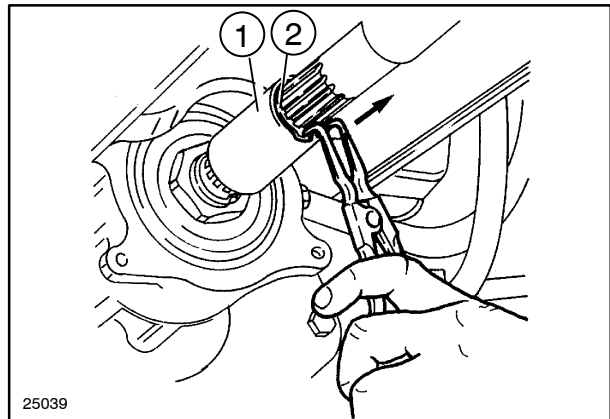
21. Remove the front, center and rear retaining bolts from the front axle drive shaft guard and remove the guard (models with FWD).



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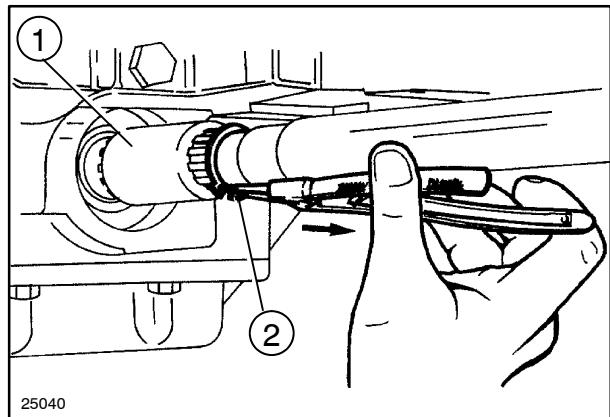
22. Remove the circlip (2) from the front of the drive shaft and slide the sleeve (1), in the direction shown by the arrow (see figure), until it is free of the splines on the front axle (models with FWD).



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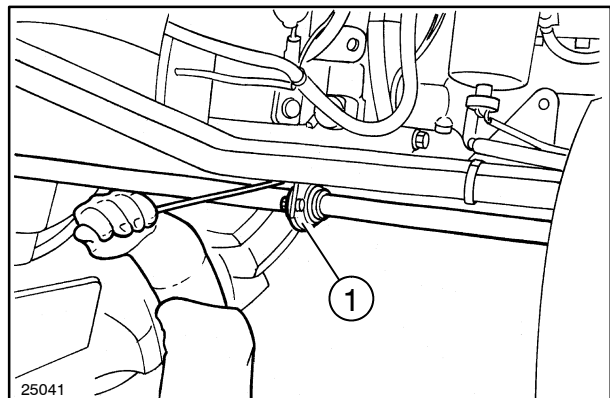
23. Remove the circlip (2) from the rear of the drive shaft and slide the sleeve (1), in the direction shown by the arrow (see figure), until it is free of the splines on the drive shaft (models with FWD).



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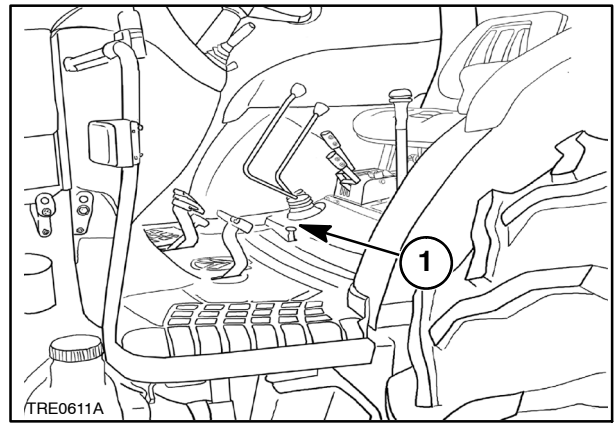
24. Remove the retaining bolts from the central drive shaft support (1) and remove the shaft complete with support (models with FWD).



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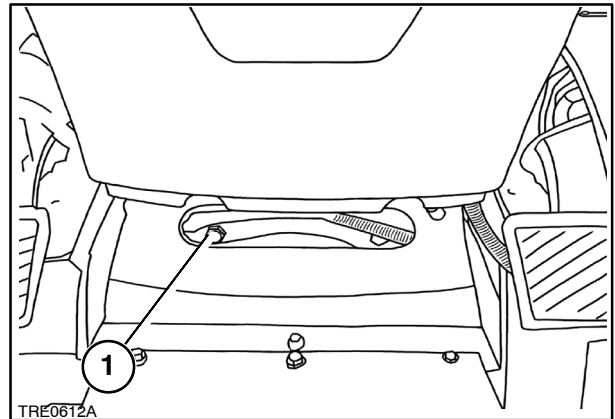
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25. Withdraw the pin securing the differential lock knob (1), remove the knob and remove the mat from the floor.



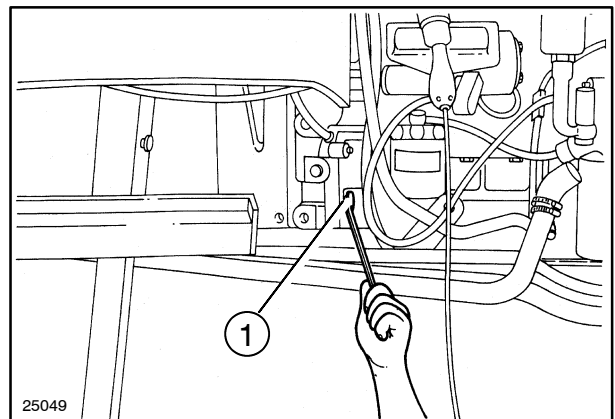
32

26. Unscrew the nuts (1) and the bolts securing the engine to the transmission. Access is through the two slots in the cab floor.



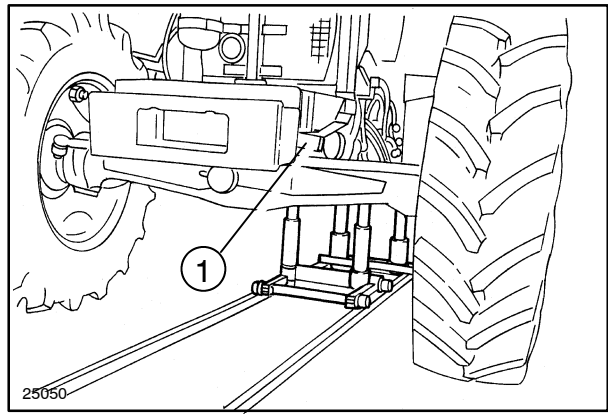
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27. Unscrew the four lower bolts (1) securing the engine to the transmission.



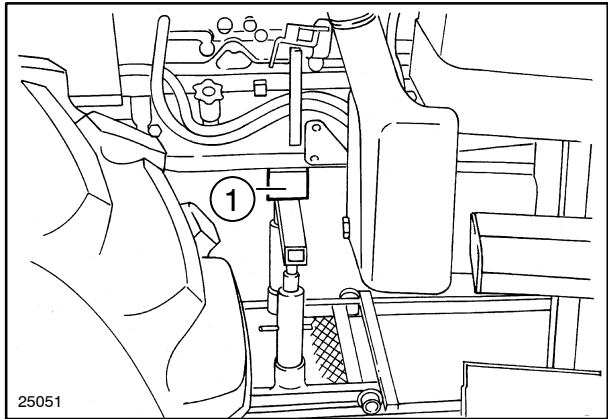
34

28. Position stand **380000236** underneath the tractor and insert a wedge (1), either side of the axle, to prevent the axle from pivoting.



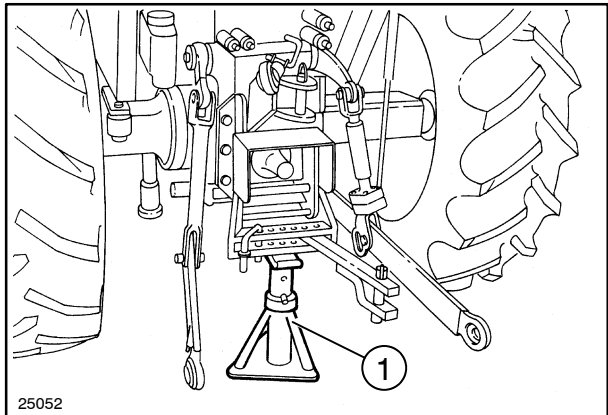
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29. Insert a wooden block between the stands and the tractor.



36

30. Place a fixed stand (1) underneath the drawbar support and apply the handbrake.

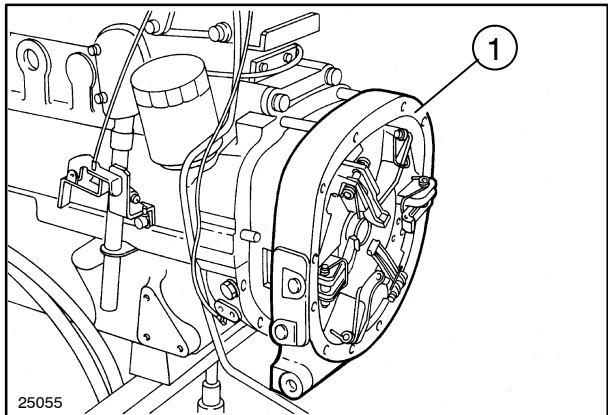


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32. Unscrew the four remaining bolts securing the engine to the transmission.

33. Separate the engine from the transmission.

31. Remove the distance collar (1) between the engine and transmission.



38



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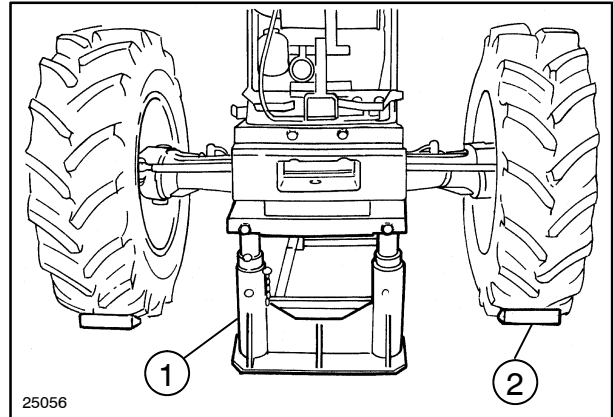
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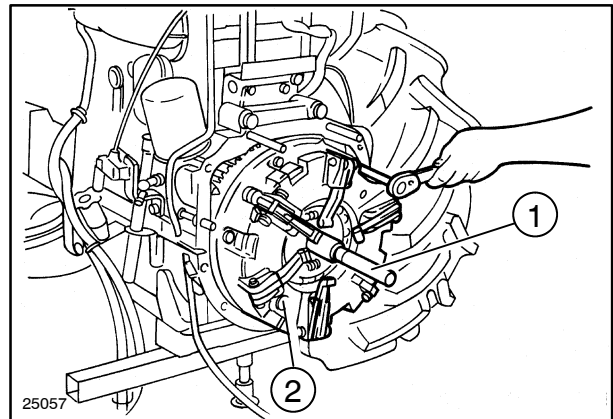
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34. Place a fixed stand (1) underneath the front ballast support and chock the wheels with wooden wedges (2).



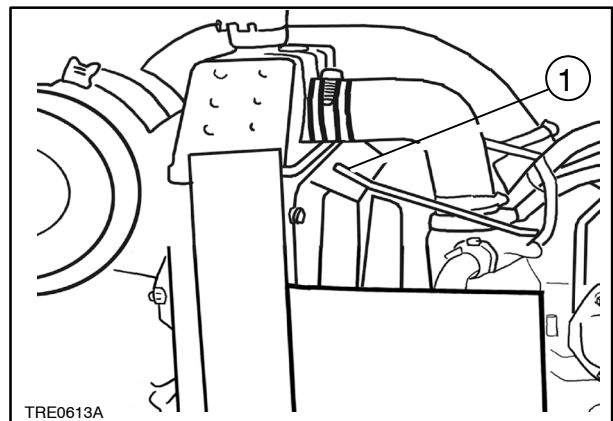
39

35. Insert tool **380000292** (1) in the clutch center hole. Unscrew the six bolts (2) securing the clutch to the flywheel and remove complete clutch assembly.



40

36. Remove the radiator support bracket (1).



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