

DV210
Tier 3
Vibratory Roller

SERVICE MANUAL

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INTRODUCTION

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INTRODUCTION

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Foreword - Important notice regarding equipment servicing

All repair and maintenance work listed in this manual must be carried out only by qualified dealership personnel, strictly complying with the instructions given, and using, whenever possible, the special tools.

Anyone who performs repair and maintenance operations without complying with the procedures provided herein shall be responsible for any subsequent damages.

The manufacturer and all the organizations of its distribution chain, including - without limitation - national, regional, or local dealers, reject any responsibility for damages caused by parts and/or components not approved by the manufacturer, including those used for the servicing or repair of the product manufactured or marketed by the manufacturer. In any case, no warranty is given or attributed on the product manufactured or marketed by the manufacturer in case of damages caused by parts and/or components not approved by the manufacturer.

The manufacturer reserves the right to make improvements in design and changes in specifications at any time without notice and without incurring any obligation to install them on units previously sold. Specifications, descriptions, and illustrative material herein are as accurate as known at time of publication but are subject to change without notice.

In case of questions, refer to your CASE CONSTRUCTION Sales and Service Networks.

Safety rules


Personal safety





This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual you will find the signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

 DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

 WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

 CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.

Machine safety

NOTICE: Notice indicates a situation that, if not avoided, could result in machine or property damage.

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

Information

NOTE: Note indicates additional information that clarifies steps, procedures, or other information in this manual.

Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

Safety rules

Carefully read the safety rules contained herein and follow advised precautions to avoid potential hazards and to safeguard your safety and personal integrity.

Your safety and that of the people around you depends on you.

It is essential that you understand this manual for a correct inspection, lubrication and repair of this machine.

Read this manual carefully and check that:

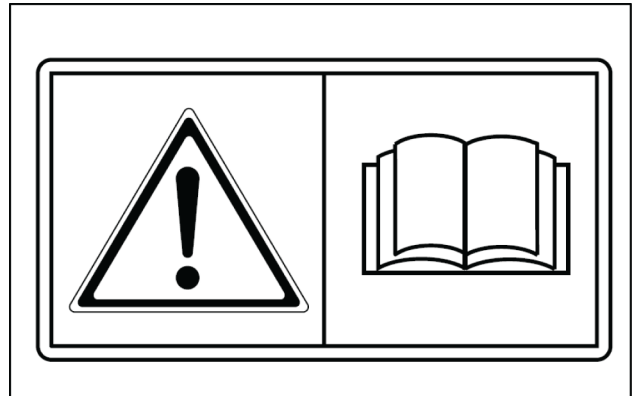
- You understand fully the symbols on the controls and the safety signs used in this manual and on the machine.
- You understand fully the speed, stability, braking and steering characteristics of the machine. If you are in any doubt, consult your Dealer.

The safety messages in this section concern situations which may arise during normal machine operation, servicing and repair. These safety messages also indicate the different ways of coping with these situations. Other safety messages are used throughout the manual to indicate specific dangers.

The information given in this chapter is a summary of the basic rules to respect at all times and does not exempt you from observing traffic regulations or the requirements of insurance companies.

The presence of grease, oil, mud or (in winter) ice on the steps and access handles can cause accidents. Make sure they are always clean.

When mounting or dismounting from the machine always face the machine and use the steps and access handles on the left-hand side of the machine.



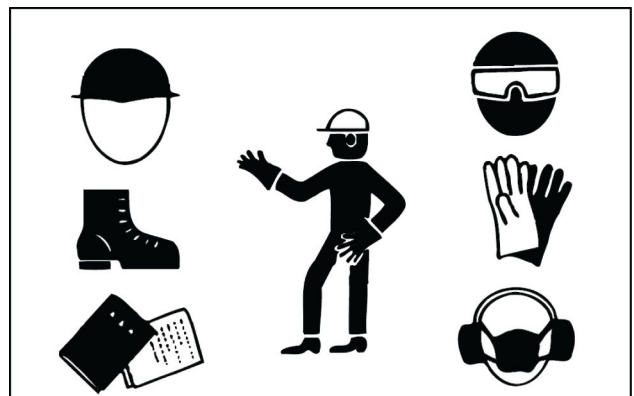
LELI12TLB0048AB 1

Wear close fitting clothing and safety equipment appropriate for the job:

- Safety helmet
- Safety shoes
- Heavy gloves
- Reflective clothing
- Wet weather clothing

If the environment conditions make it necessary, the following personal safety equipment should be at hand:

- Respirators (or dustproof masks)
- Ear plugs or acoustic ears protections
- Goggles with lateral shield or masks for eyes protection



LELI12TLB0049AB 2

Do not wear rings, wristwatches, jewels, unbuttoned or flapping clothing such as ties, torn clothes, scarves, open jackets or shirts with open zips which could get caught into moving parts.

Any functional disorders, especially those affecting the safety of the machine, should therefore be rectified immediately.



SERVICE MANUAL

Engine

DV210

Engine - Remove

⚠ WARNING

Unexpected machine movement!

Make sure that you secure the machine with wheel chocks before you perform this procedure.
Failure to comply could result in death or serious injury.

W1221A

⚠ WARNING

Rotating parts!

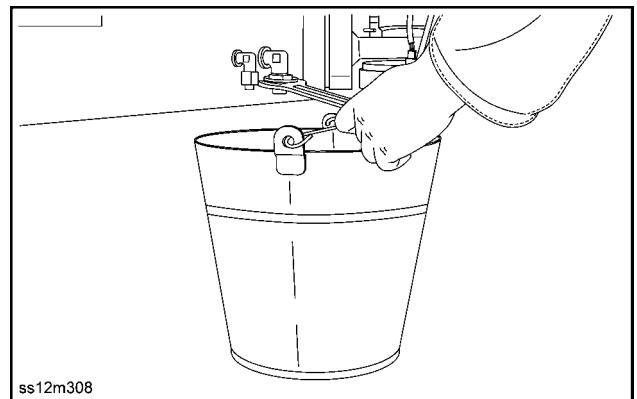
Always shut the engine off and disconnect the battery master switch before opening the hood.
Failure to comply could result in death or serious injury.

W1072A

NOTE: For more details refer to **Engine - Component identification (10.001)**.

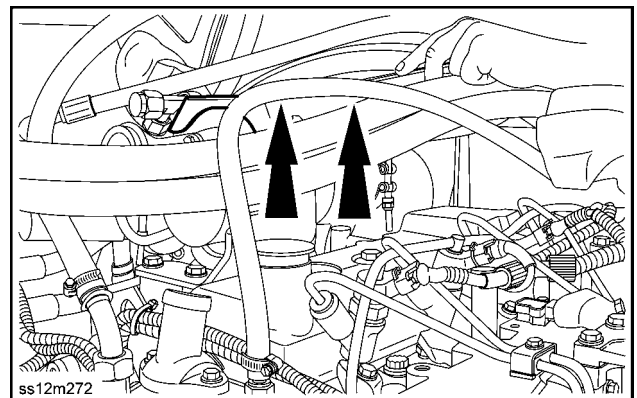
NOTICE: Place a drip pan under the engine and cover pipes, hoses, and pump ports following removal.

1. Remove the battery (see **Battery - Remove (55.302)**).
2. Drain the engine oil.
3. Remove the hood (See **Engine hood - Remove (90.105)**).
4. Remove the radiator (See **Radiator - Remove (10.400)**).



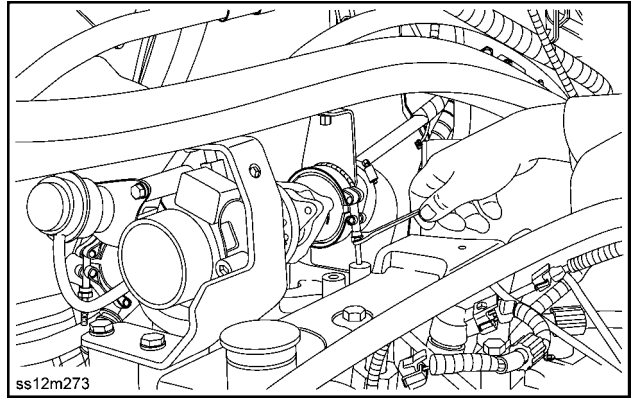
SS12M308 1

5. Remove the turbocharger cover.

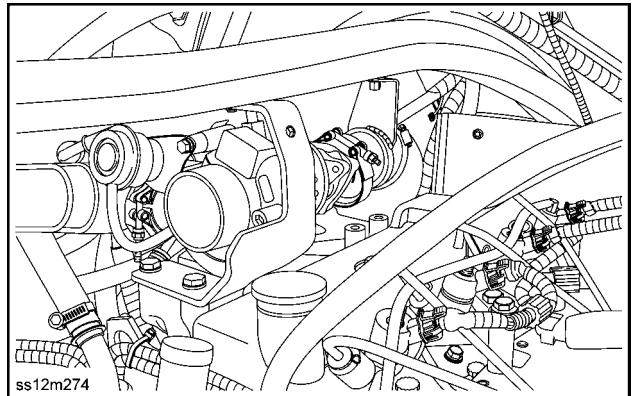


SS12M272 2

6. Detach the exhaust hose from the turbocharger.

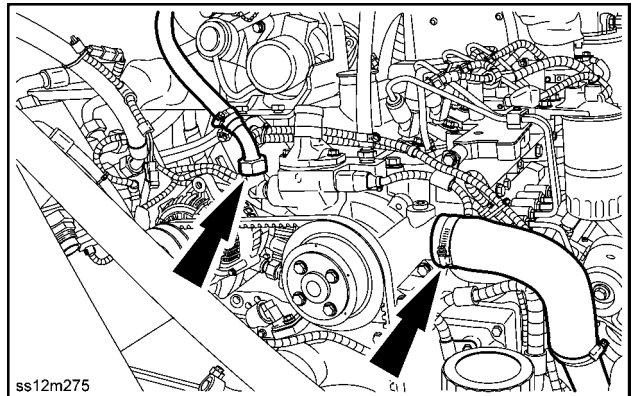


SS12M273 3



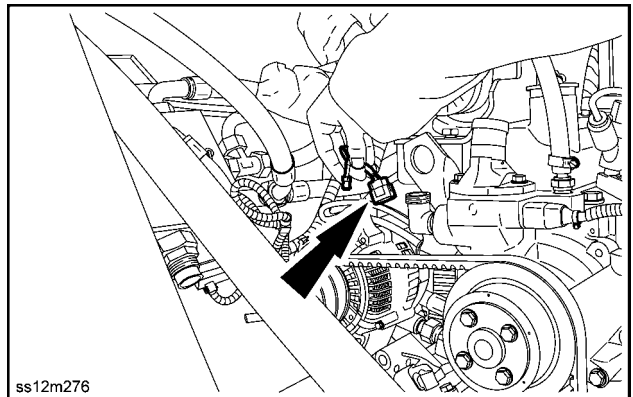
SS12M274 4

7. Remove the heater hoses.



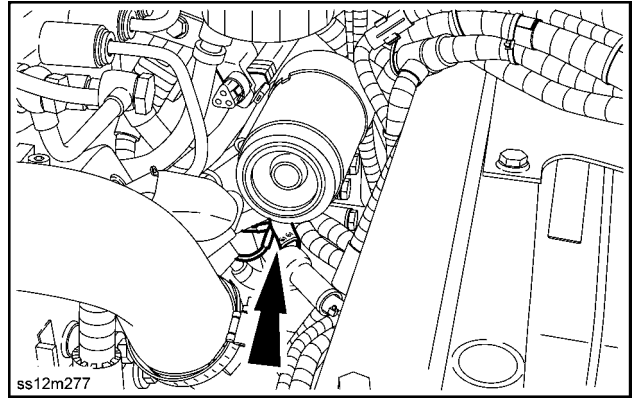
SS12M275 5

8. Disconnect the alternator wiring and connectors.

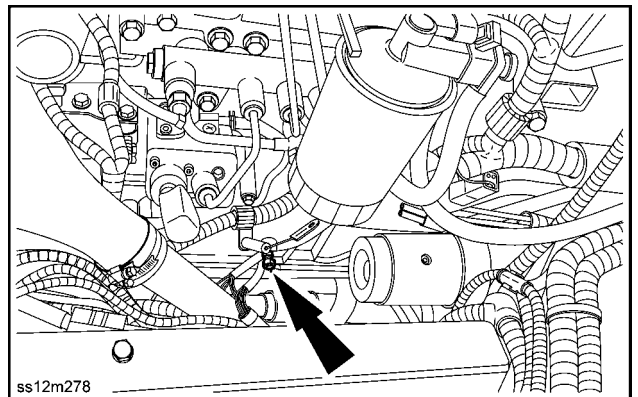


SS12M276 6

9. Disconnect the starter wiring and connectors.

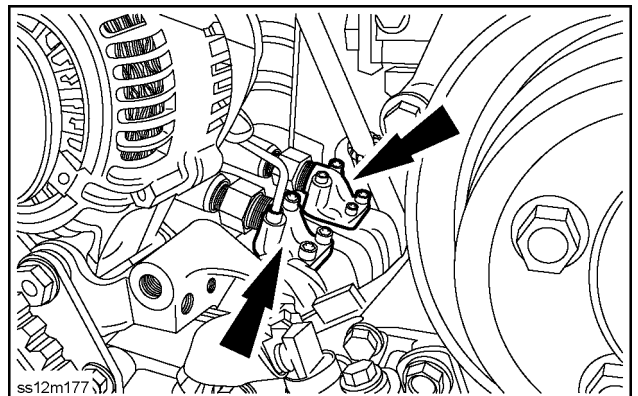


10. Disconnect the engine ground connection.

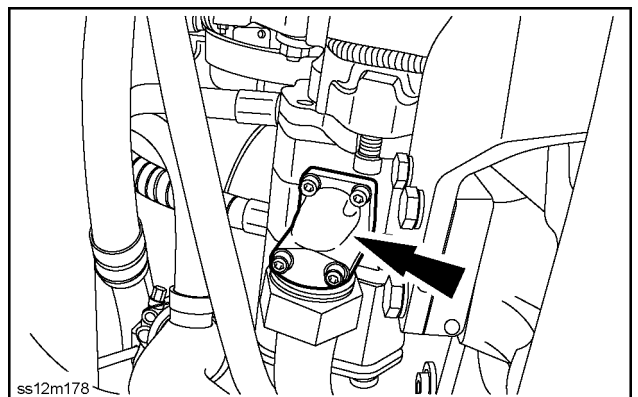


11. Remove the hoses from the top of the steering pump.

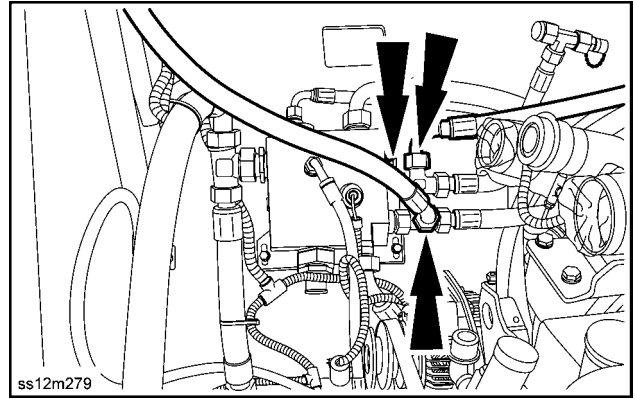
NOTE: Check the gasket and O-rings and replace if necessary.



12. Remove the flange from the bottom of the steering pump.

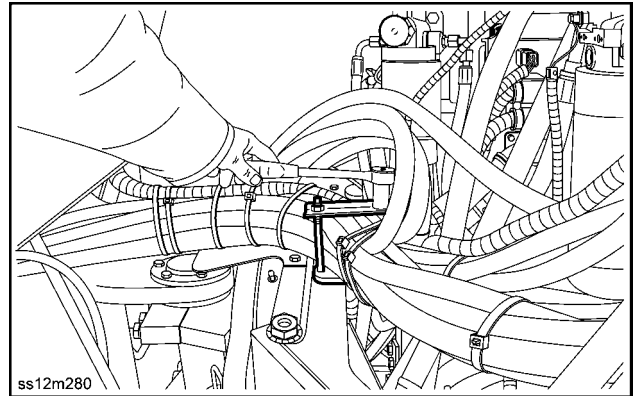


13. Remove the thermo-controller hose.



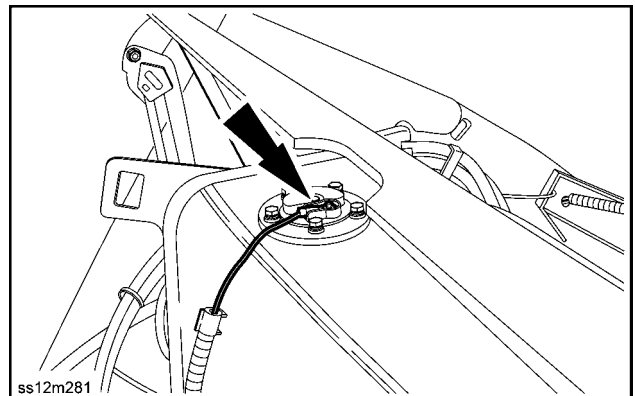
SS12M279 11

14. Remove the hose clamp.



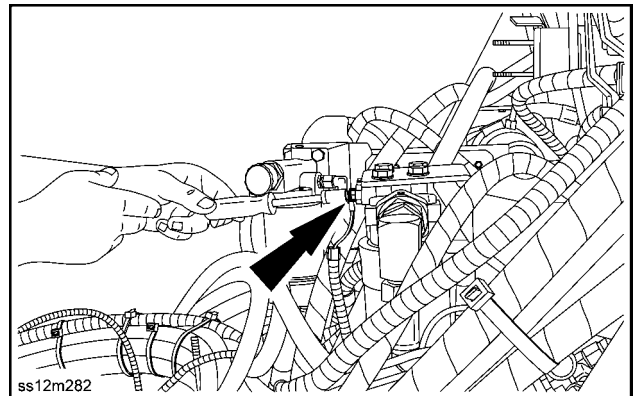
SS12M280 12

15. Disconnect the connector from the fuel level sensor.



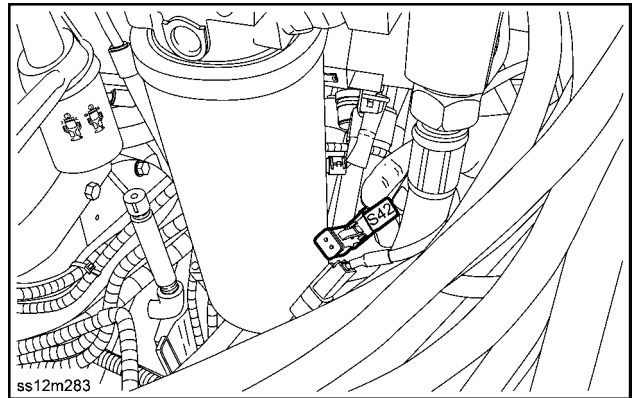
SS12M281 13

16. Remove the connector from the hydraulic filter clogged sensor.

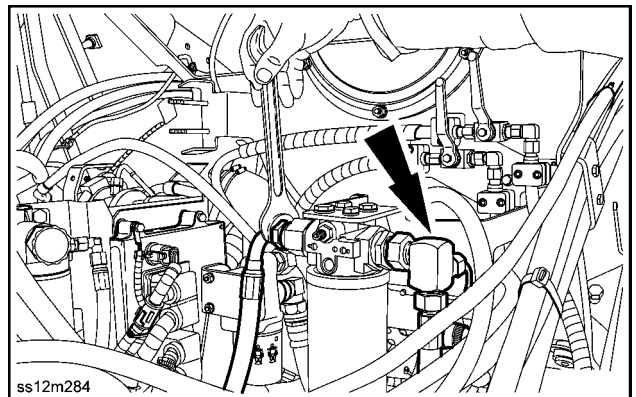


SS12M282 14

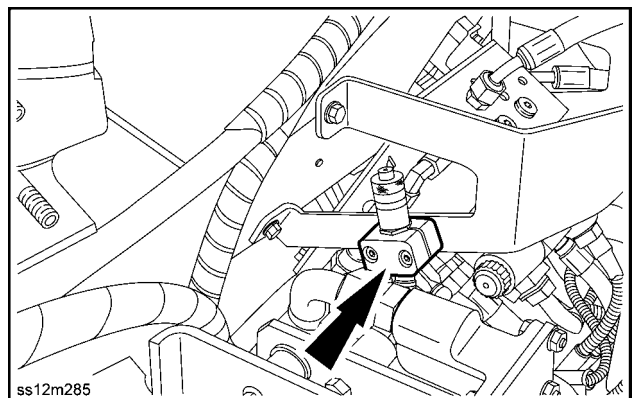
17. Disconnect the connector.



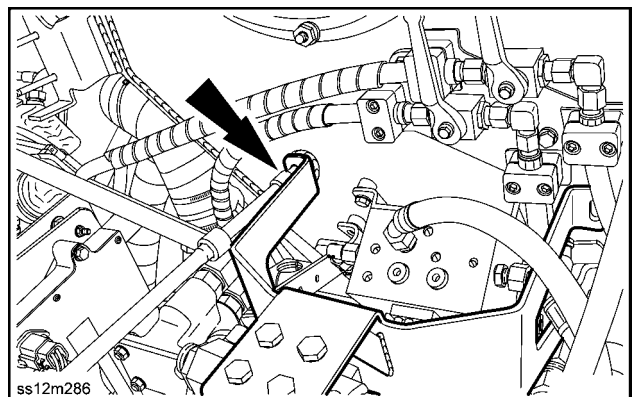
18. Detach the hoses from the hydraulic oil filter.



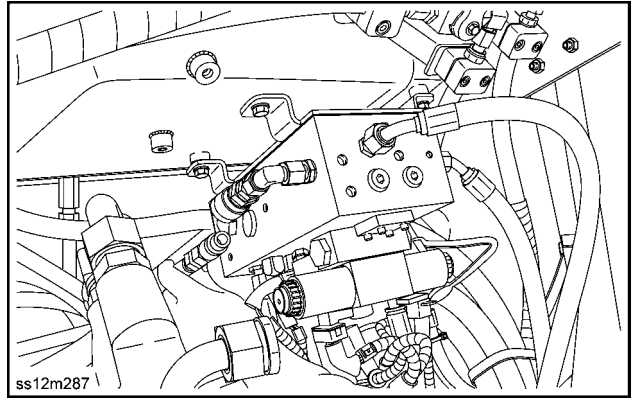
19. Remove the quick coupling from its clamp.



20. Remove the oil filter bracket.

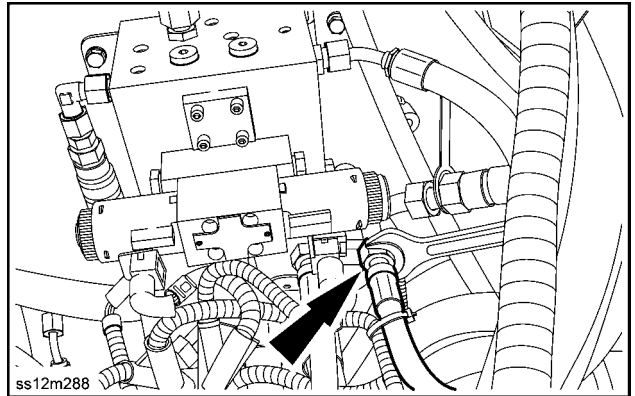


21. Disconnect the quick coupling from the steering block.



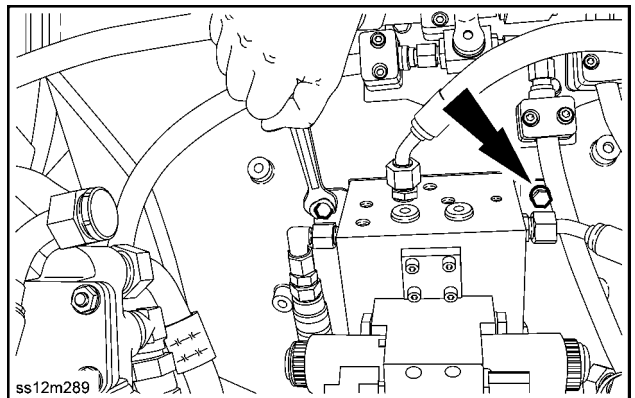
SS12M287 19

22. Remove the rear aux. transmission braking hose.



SS12M288 20

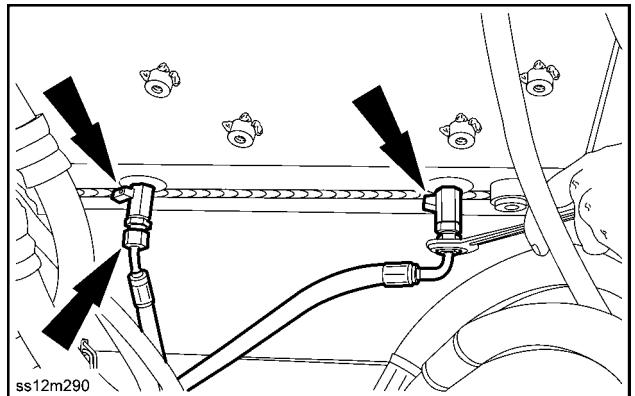
23. Remove the steering block.



SS12M289 21

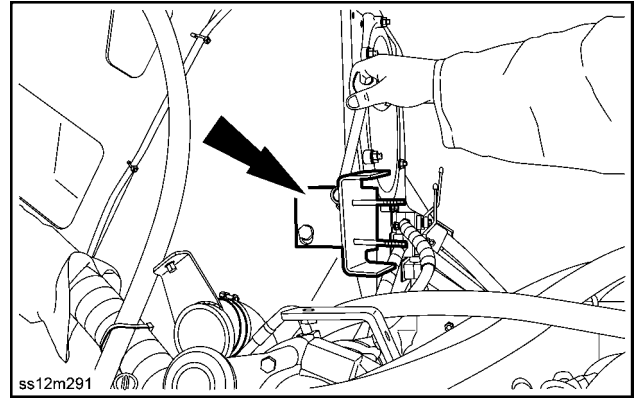
24. Close the fuel tank valves.

25. Remove the hose from the fuel tank.



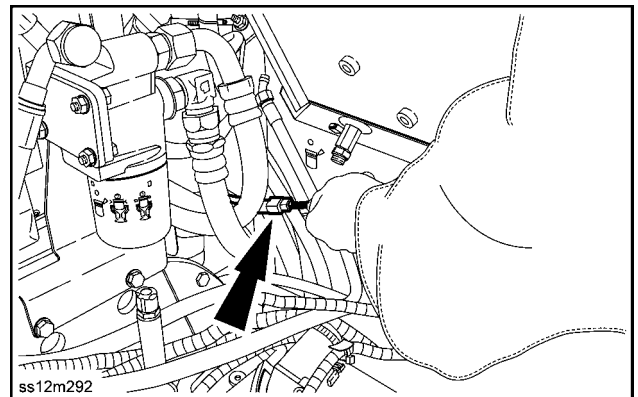
SS12M290 22

26. Remove the bracket.



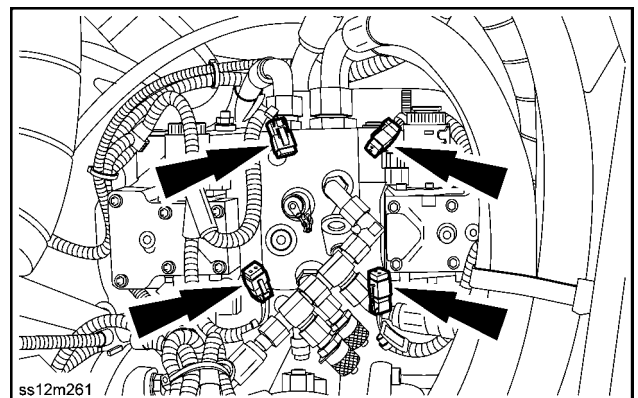
SS12M291 23

27. Disconnect the engine RPM sensor connector.



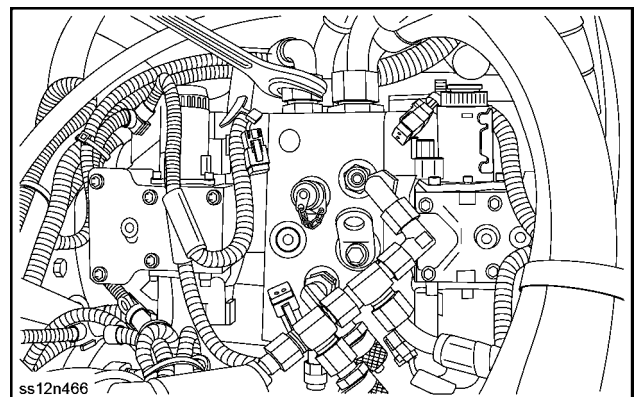
SS12M292 24

28. Mark and disconnect the connectors from the vibrations and travel solenoids (low amplitude, high amplitude, forward, rearward) at the top of the pump.



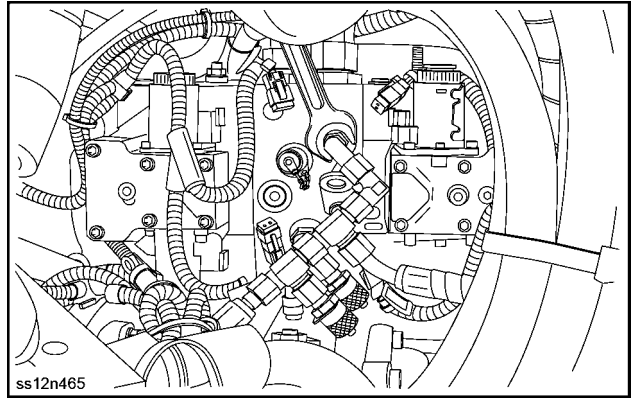
SS12M261 25

29. Remove the hose from the top of the second pump.

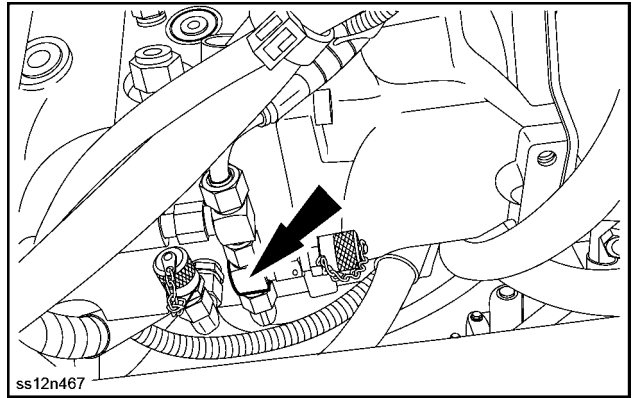


SS12N466 26

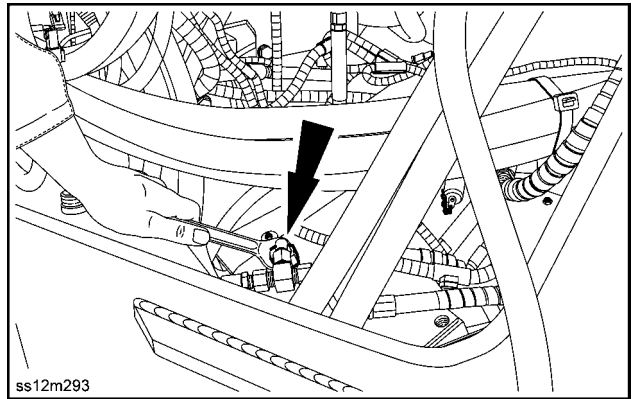
30. Remove the hose from the sides of the second pump.



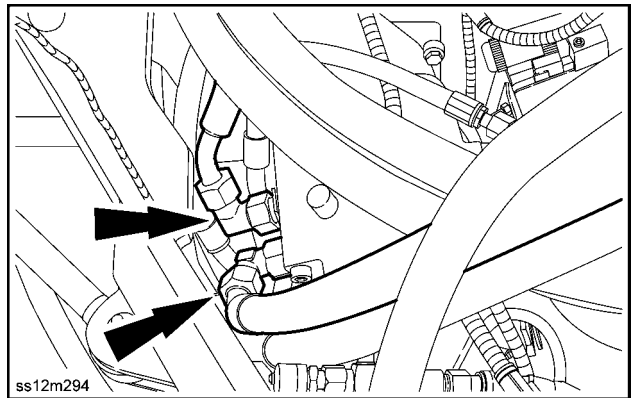
31. Remove the hose from the bottom of the second pump.



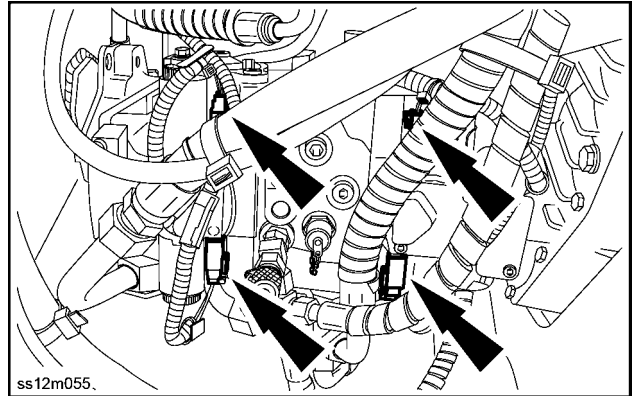
32. Remove the hose from the top of the first pump.



33. Remove the hoses from the sides of the first pump.

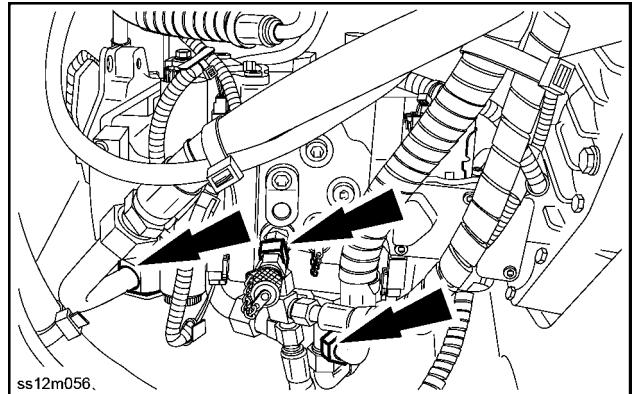


34. Mark and disconnect the connectors from the vibrations and travel solenoids (low amplitude, high amplitude, forward, rearward) at the bottom of the pump.



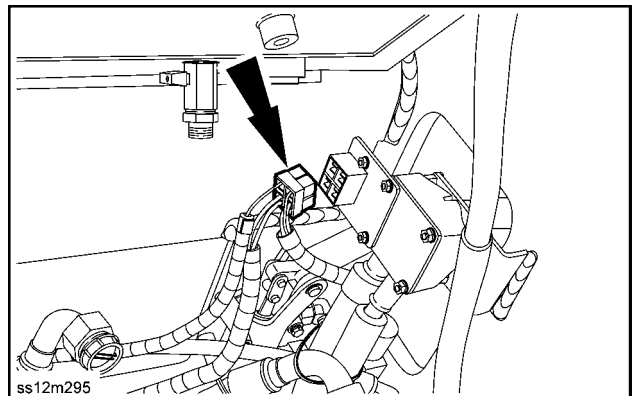
SS12M055 31

35. Remove the hoses from the bottom of the pump.



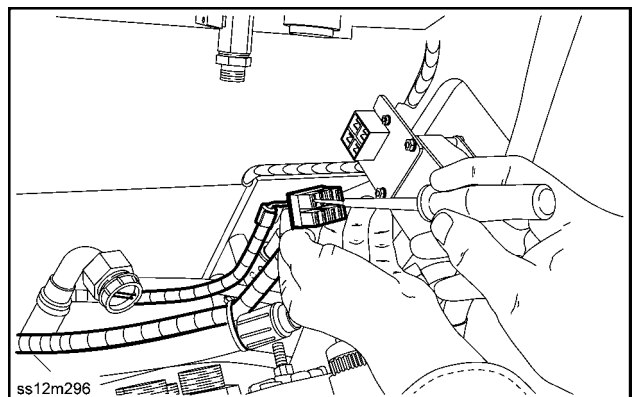
SS12M056 32

36. Disconnect the fuse connector.



SS12M295 33

37. Disconnect the cables from the connector.



SS12M296 34



Suggest:

If the above button click is invalid.

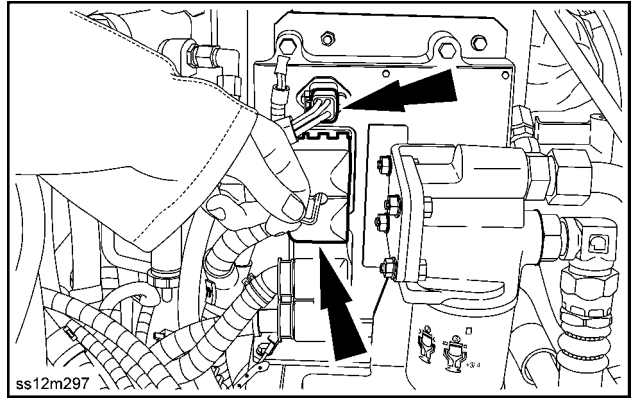
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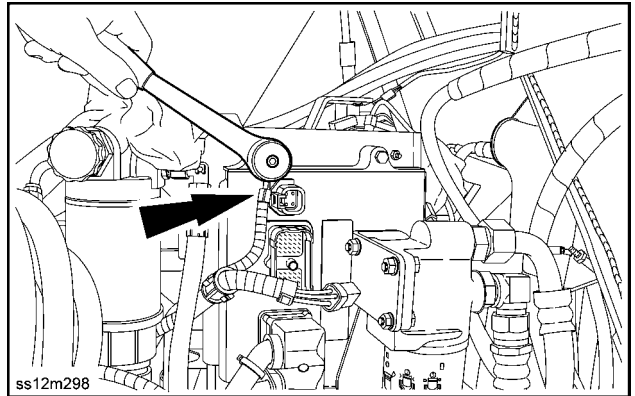
Thank you so much for reading

38. Remove and disconnect the connectors on the engine.



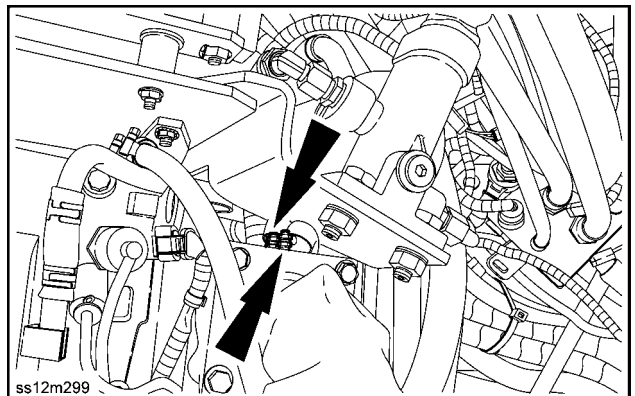
SS12M297 35

39. Disconnect the engine ground connection.



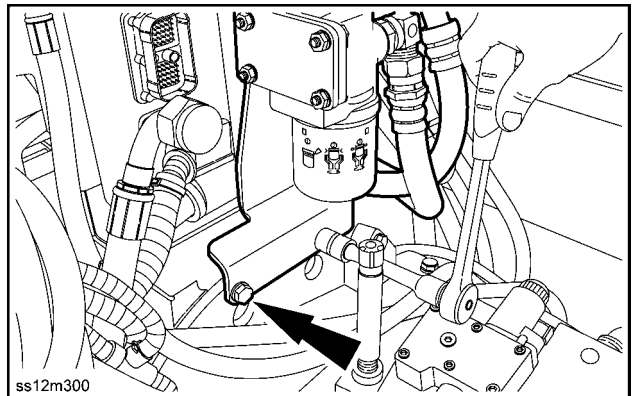
SS12M298 36

40. Remove the engine pre-heater.



SS12M299 37

41. Remove the filter and bracket assembly.



SS12M300 38

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