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THIS MANUAL, 84257306, COVERS THE FOLLOWING STX AND STEIGER SERIES TRACTORS:
STX 280, 330, 380, 430, 480, and 530 Series
Steiger 280, 330, 380, 430, 480, and 530 Series
Steiger 335, 385, 435, 485, and 535 Series

NOTE: *Engine repair information is not contained within this tractor Service Manual. For engine repair, refer to appropriate engine service manual as follows:*

87515687 - *For 8.3 & 9.0L 6 Cylinder, 24 Valve CNH Engine with High Pressure Common Rail Fuel System.*

87523642 - *For 12.9L 6 Cylinder, Engine.*

87737593 - *For 12.9L 6 Cylinder, Turbo Compound Engine.*

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Section 1001

SAFETY

SAFETY



WARNING: THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY OR DEATH.**

M171B


To prevent injury always follow the Warning, Caution and Danger notes in this section and throughout the manual.

Put the “Do Not Operate” tag shown below on the key for the key switch when keys are removed for servicing or repairing the machine. Tags are available from your service parts supplier.

Before servicing a machine, park the machine on hard level ground. Turn off the engine, apply the parking brake and remove the key from the key switch. Put blocks in front of and behind either the front or rear wheels.




MS99B001




WARNING: Before starting engine study Operators Manual safety messages. Read all safety signs on machine. Clear the area of other persons. Learn and practice safe use of controls before operating. It is your responsibility to understand and follow manufacturers instructions on machine operation, service, and to observe pertinent laws and regulations. Operator and Service Manuals may be obtained from your equipment dealer.

M103A




WARNING: If you wear clothing that is too loose or do not use the correct safety equipment for your job, you can be injured. Always wear clothing that will not catch on objects. Extra safety equipment that can be required includes hard hat, safety shoes, ear protection, eye or face protection, heavy gloves and reflector clothing.

M492




WARNING: When working in the area of the fan belt with the engine running, avoid loose clothing if possible, and use extreme caution.

M493




WARNING: When doing checks and tests on the equipment hydraulics, follow the procedures as they are written. DO NOT change the procedure.

M494




WARNING: When putting the hydraulic cylinders on this machine through the necessary cycles to check operation or to remove air from a circuit, make sure all people are out of the way.

M495




WARNING: Always wear heat protective gloves to prevent burning your hands when handling heated parts.

SM121A




WARNING: Read the operators manual to familiarize yourself with the correct control functions.

M489



WARNING: Operate the machine and equipment controls from the seat position only. Any other method could result in serious injury.

M490



WARNING: This is one man machine, no riders allowed.

M491



WARNING: Lower all attachments to the ground or use stands to safely support the attachments before you do any maintenance or service.

M496



WARNING: Hydraulic oil or diesel fuel leaking under pressure can penetrate the skin and cause infection or other injury.

To Prevent Personal Injury:

Relieve all pressure, before disconnecting fluid lines. Before applying pressure, make sure all connections are tight and components are in good condition.

Never use your hand to check for suspected leaks under pressure.

Use a piece of cardboard or wood for this purpose. If injured by leaking fluid, see your doctor immediately.

SM171A



WARNING: When removing hardened pins such as a pivot pin, or a hardened shaft, use a soft head (brass or bronze) hammer or use a driver made from brass or bronze and a steel head hammer.

M497



WARNING: When using a hammer to remove and install pivot pins or separate parts using compressed air or using a grinder, wear eye protection that completely encloses the eyes (approved goggles or other approved eye protectors).

M498



WARNING: Use suitable floor (service) jacks or chain hoist to raise wheels or tracks off the floor. Always block machine in place with suitable safety stands

M499



WARNING: When servicing or repairing the machine. Keep the shop floor and operators compartment and steps free of oil, water, grease, tools, etc. Use an oil absorbing material and or shop cloths as required. Use safe practices at all times.

M500



WARNING: Some components of this machine are very heavy. Use suitable lifting equipment or additional help as instructed in the Service Manual.

M501



WARNING: Engine exhaust fumes can cause death. If it is necessary to start the engine in a closed place, remove the exhaust fumes from the area with an exhaust pipe extension. Open the door and get outside air into the area.

M502



WARNING: When the battery electrolyte is frozen, the battery can explode if (1), you try to charge the battery, or (2), you try to jump start and run the engine. To prevent the battery electrolyte from freezing, try to keep the battery at full charge. If you do not follow these instructions, you or others in the area can be injured.

M503



WARNING: Batteries contain acid and explosive gas. Explosions can result from sparks, flames or wrong cable connections. To connect the jumper cables correctly to the battery of this machine see the Operators Manual. Failure to follow these instructions can cause serious injury or death.

M504

ROLL OVER PROTECTIVE STRUCTURE (ROPS)

ROPS, the operators seat, the seat belts and all mounting, accessories and wiring inside the operators protective system must be carefully checked after a tractor accident and all parts with damage must be replaced immediately. DO NOT TRY TO MAKE REPAIRS OR WELD THE ROPS.

Safety Rules:

1. Do not make modifications to the ROPS. Example, welding an accessory to the ROPS or drilling a hole in the ROPS.
2. Special fasteners are used to install the operator protective parts. Replacement parts must be the same as given in the Parts Catalog.

Section 2001

ENGINE REMOVAL AND INSTALLATION

ENGINE REMOVAL

STEP 1

1. Park the tractor on a hard level surface.
2. Place the shift lever in PARK (Powershift) or place the shift levers in neutral.
3. Shut off the engine and remove the key from the switch.
4. If necessary, drain the oil from the engine crankcase.

STEP 2

See Hood Removal And Installation 380/430 for instructions to remove the hood from the tractor.

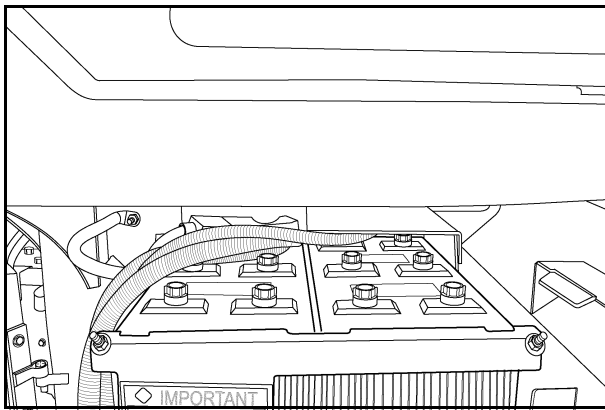
STEP 3

See A/C Component Service for instructions to discharge the air conditioning system.

STEP 4

See Radiator, Coolers And Condenser Removal And Installation 380/430 for instructions to drain and remove the radiator and cooler assembly.

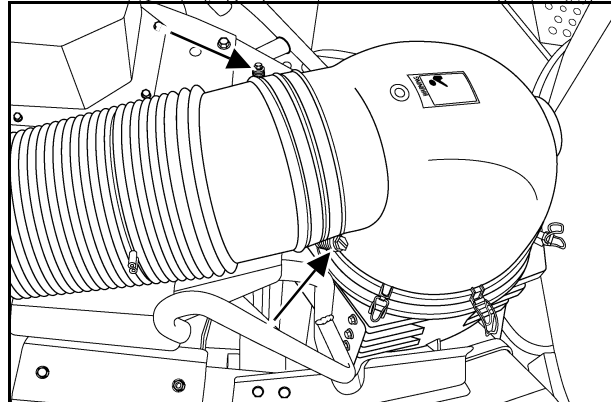
STEP 5



MD05M069

Open the battery access door and remove the negative battery cables from the three batteries.

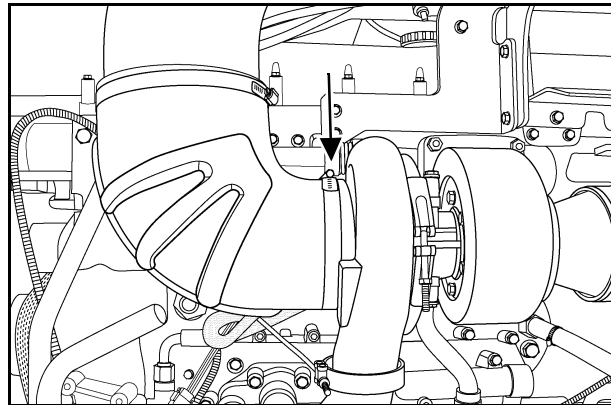
STEP 6



MD05N084

Loosen the air cleaner outlet flex tube clamps.

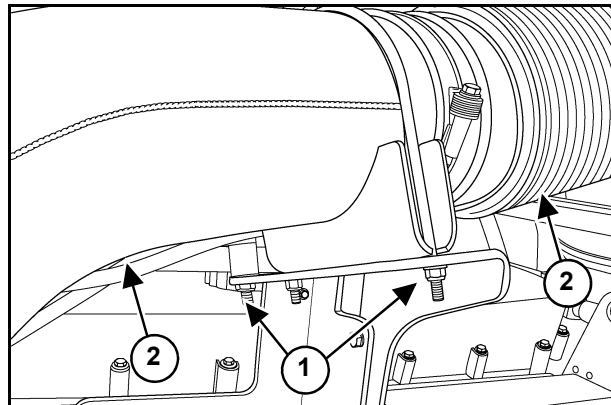
STEP 7



MD05N086

Loosen the turbo inlet elbow clamp.

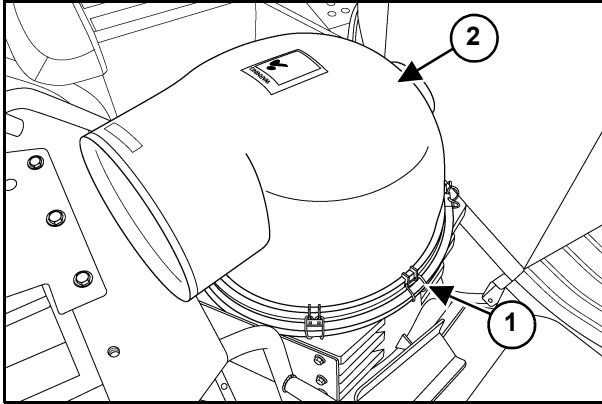
STEP 8



MD05N085

Remove the U-clamp (1) from the air cleaner to turbo inlet tube assembly (2). Remove the assembly from the tractor.

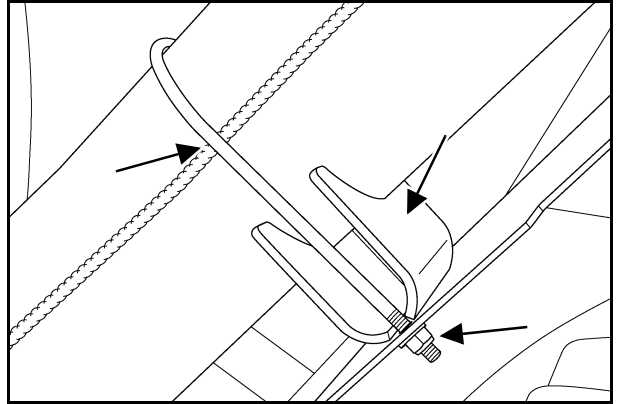
STEP 9



MD05N087

Open the six latches (1) and remove the air cleaner cover (2) and air filter.

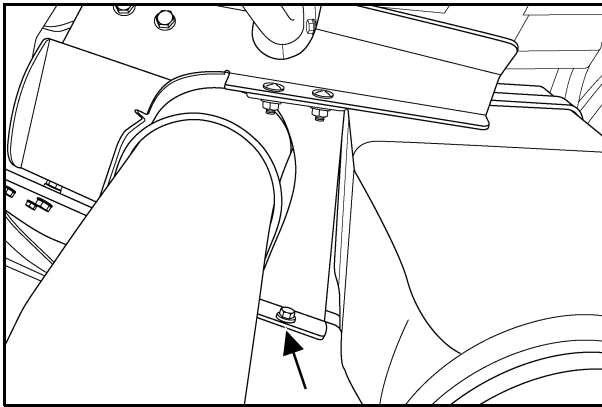
STEP 12



MD05N090

Remove the exhaust pipe U-clamp assembly.

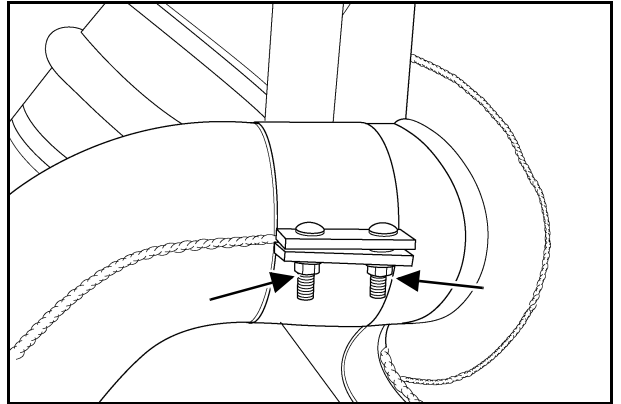
STEP 10



MD05N089

Remove the heat shield rear mounting bolt.

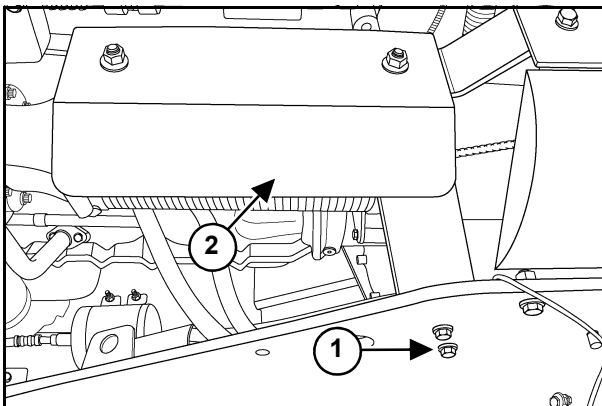
STEP 13



MD05N092

Loosen the exhaust pipe band clamp.

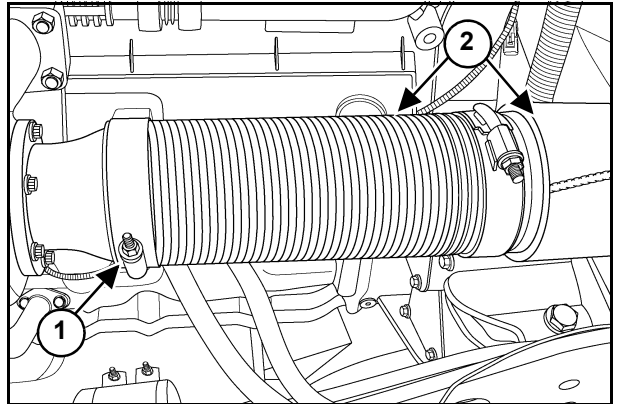
STEP 11



MD05N088

Remove the heat shield two front mounting bolts (1) and nuts. Remove the heat shield assembly (2).

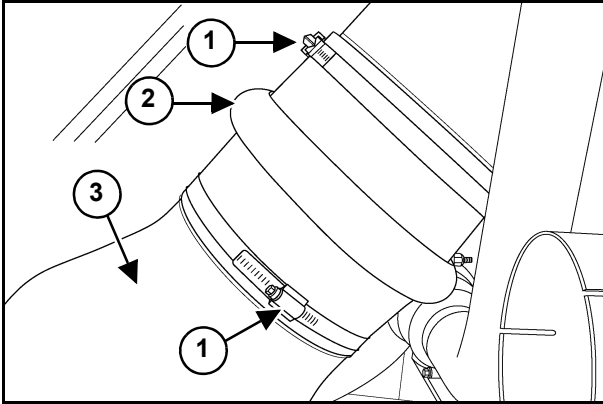
STEP 14



MD05N091

Loosen the turbo exhaust flex tube clamp (1) and remove the flex tube/exhaust pipe assembly (2).

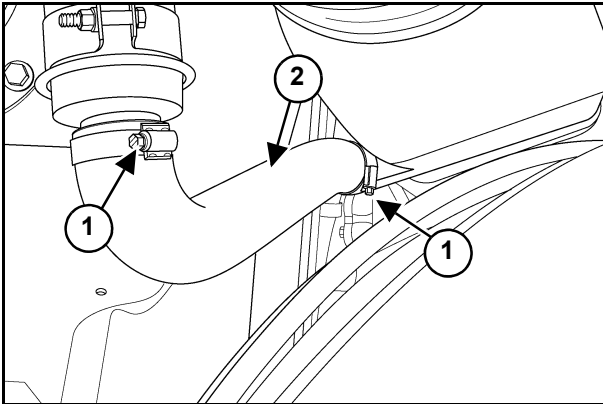
STEP 15



MD05N093

Loosen the air cleaner inlet coupler clamps (1) and move the coupler (2) up and off the air cleaner housing (3).

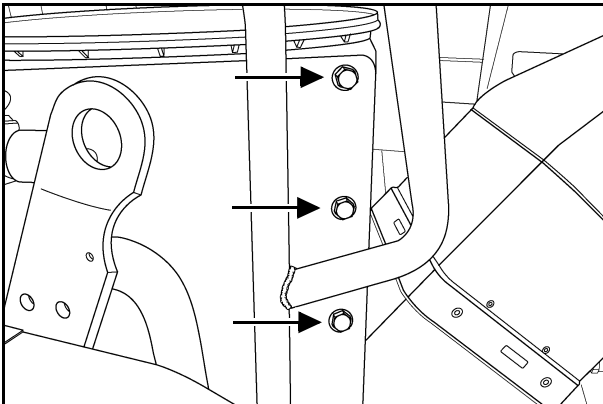
STEP 16



MD05N095

Loosen the hose clamps (1) and remove the aspirator tube (2) from the check valve and air cleaner housing.

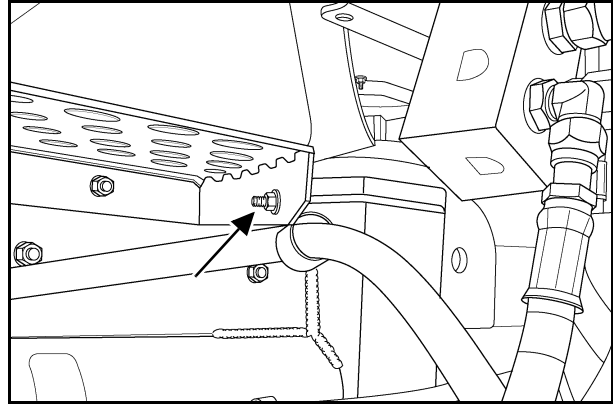
STEP 17



MD05N094

Remove the three RH and three LH air cleaner mounting bolts and remove the air cleaner housing.

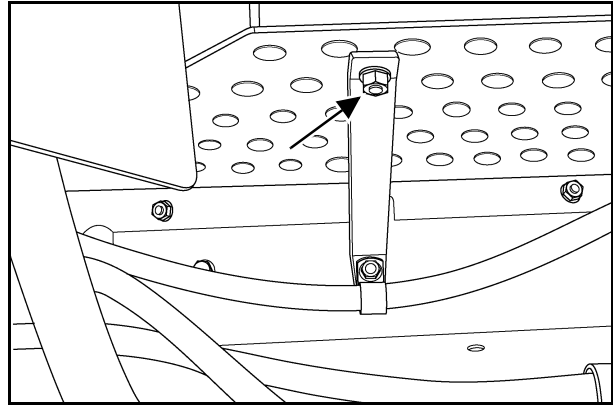
STEP 18



MD05N097

Remove the bolt, washers and nut from the P-clamp on the rear of the RH inside frame platform.

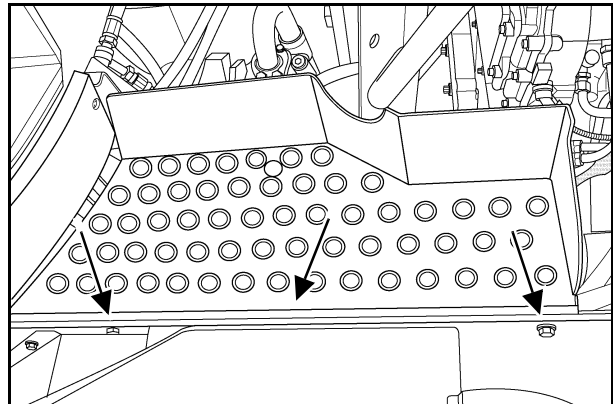
STEP 19



MD05N098

Remove the nut from the platform brace carriage bolt.

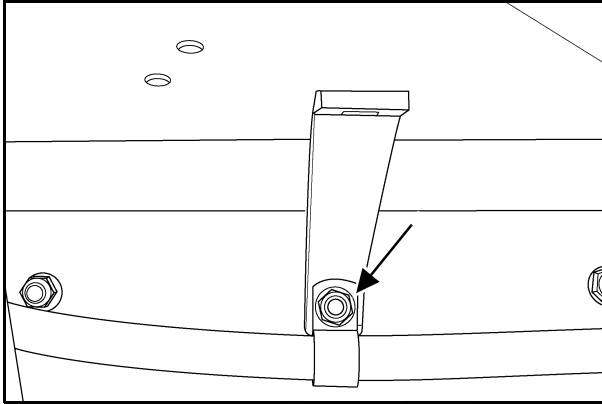
STEP 20



MD05N096

Remove the three platform to frame mounting bolts, washers and nuts. Remove the platform from the tractor.

STEP 21

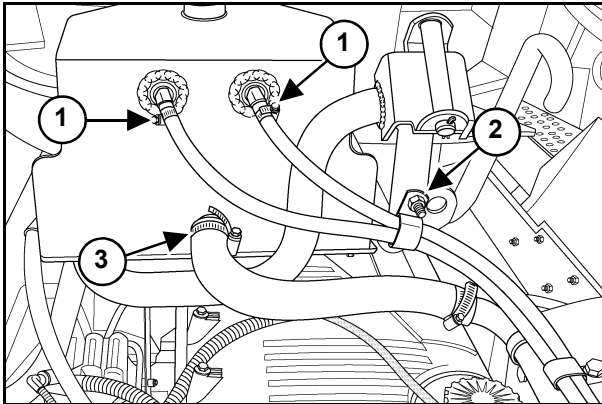


MD05N102

Remove the nut bolt and washer and remove the platform brace.

NOTE: *It is not necessary to remove the brace to remove the engine, but it will allow easier access to other components.*

STEP 22

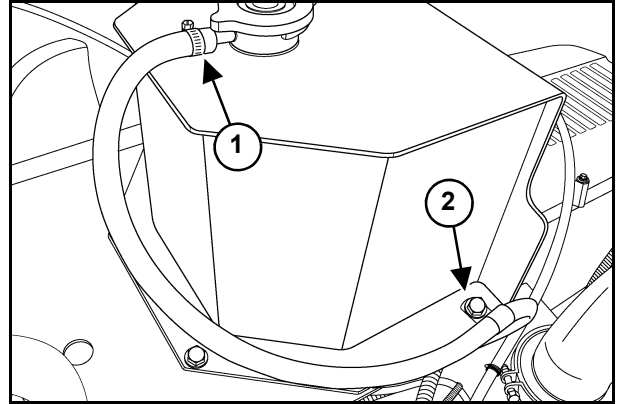


MD05N103

Remove the two deaeration hoses (1) from the tank and remove the P-clamp (2) from the hood support frame.

Remove the make up hose (3) from the tank.

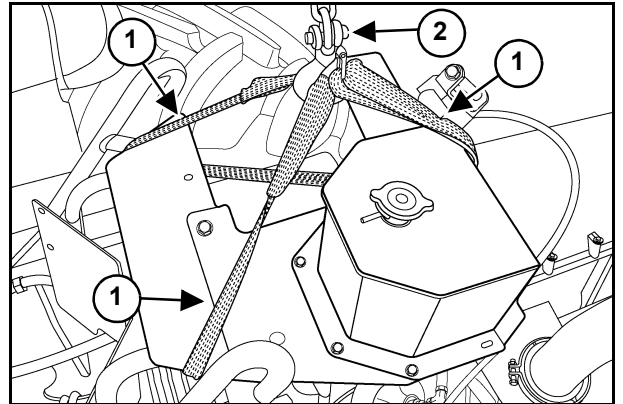
STEP 23



MD05N056

Remove the overflow hose (1) from the deaeration tank. Remove the hose P-clamp (2) from the tank base.

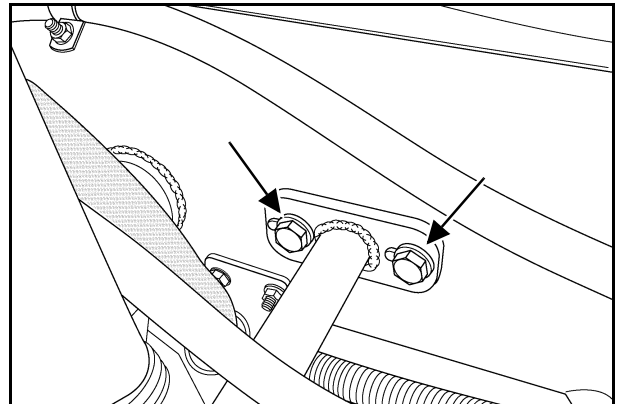
STEP 24



MD05N105

Install lifting straps (1) on the hood support assembly as shown. Attach the straps to an overhead hoist (2) and support the assembly.

STEP 25

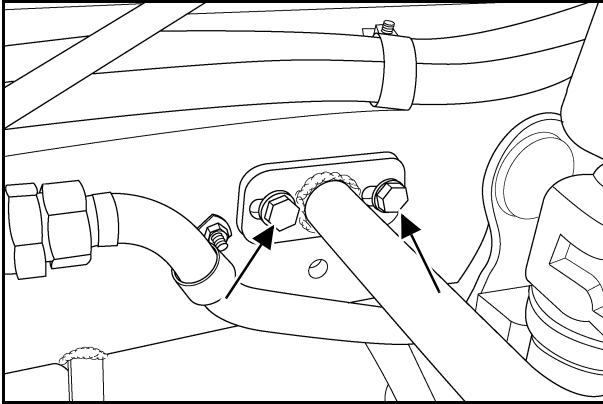


MD05N100

Mark the position of the bracket on the frame.

Remove the two LH front hood support bracket mounting bolts, washers and nuts.

STEP 26

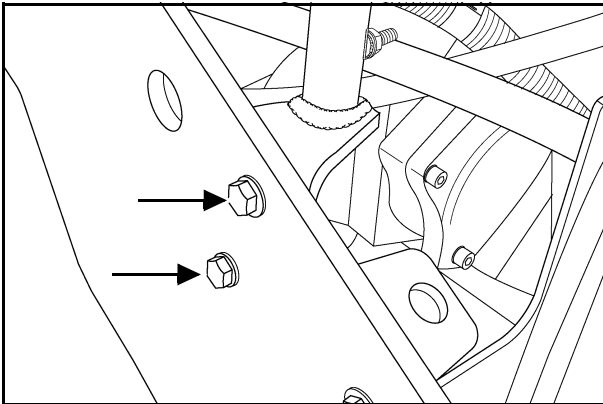


MD05N101

Mark the position of the bracket on the frame.

Remove the two LH rear support bracket mounting bolts and washers.

STEP 27



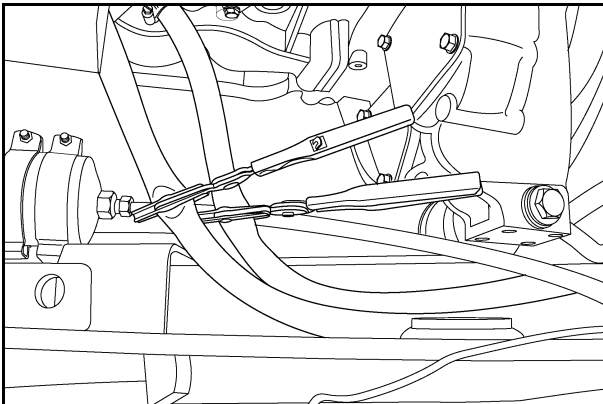
MD05N099

Mark the position of the bracket on the frame.

Remove the two RH support bracket mounting bolts, washers and nuts.

Remove the hood support assembly from the tractor.

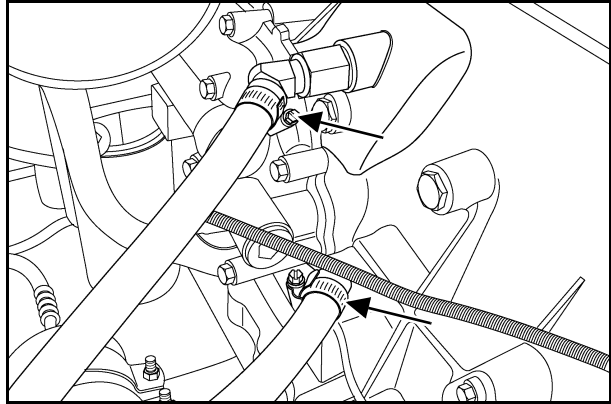
STEP 28



MD05N106

Install clamps on the heater hoses.

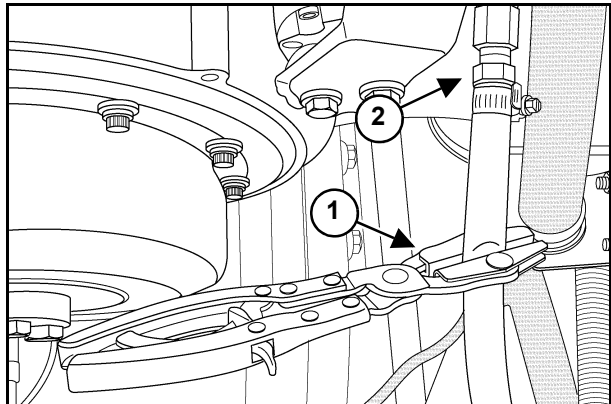
STEP 29



MD05N107

Remove the heater hoses from the engine.

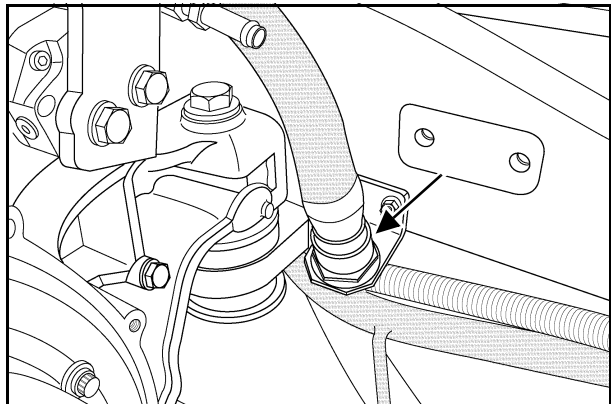
STEP 30



MD05N108

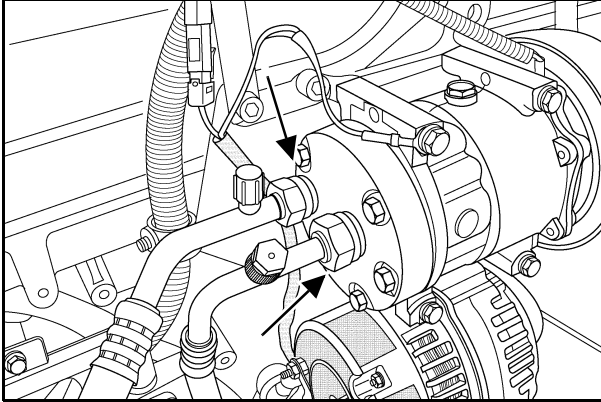
Install a clamp (1) on the fuel return hose and remove the hose from the engine (2).

STEP 31



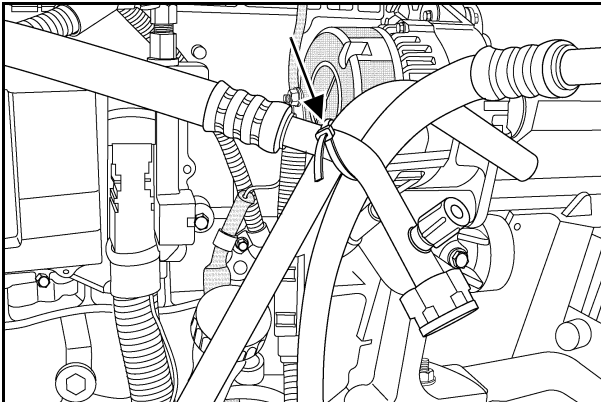
MD05N109

Remove the engine wire harness connector from the front frame harness.

STEP 32

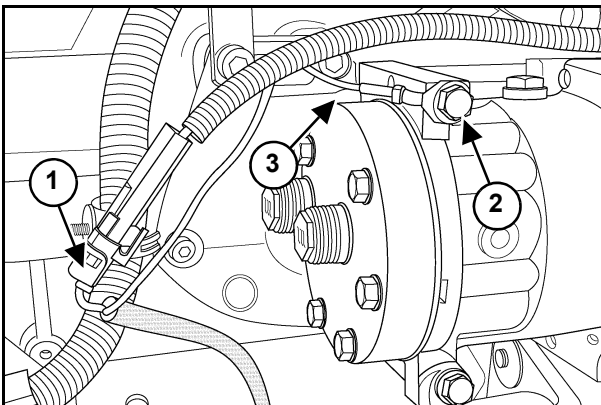
MD05N110

Remove the two A/C hoses from the compressor. Install plugs in the hose ends and caps on the compressor ports.

STEP 33

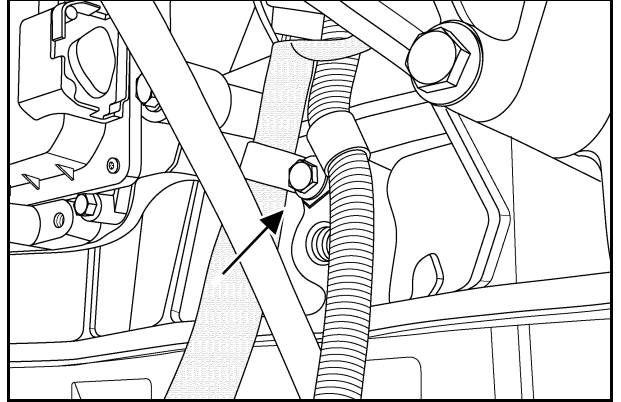
MD05N111

Carefully move the A/C hoses away from the engine and secure the hoses to the RH trash screen brace.

STEP 34

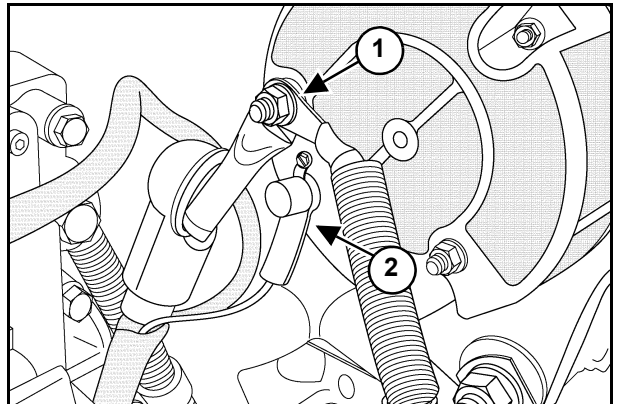
MD05N112

Remove the A/C clutch wire connector (1) from the engine wire harness. Remove the top rear compressor mounting bolt (2) and remove the ground wire (3) from the bolt (2). Install the bolt (2).

STEP 35

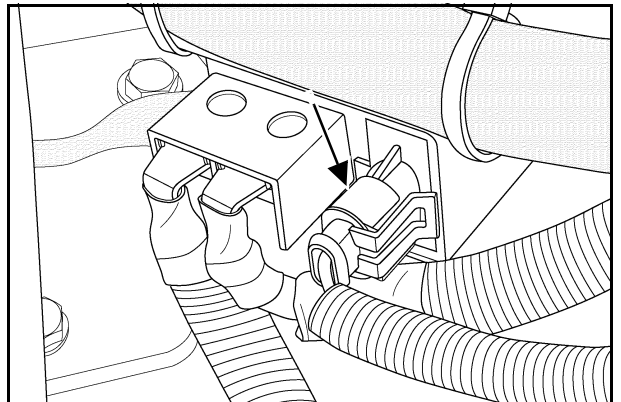
MD05N114

Remove the alternator wire P-clamp from the engine.

STEP 36

MD05N113

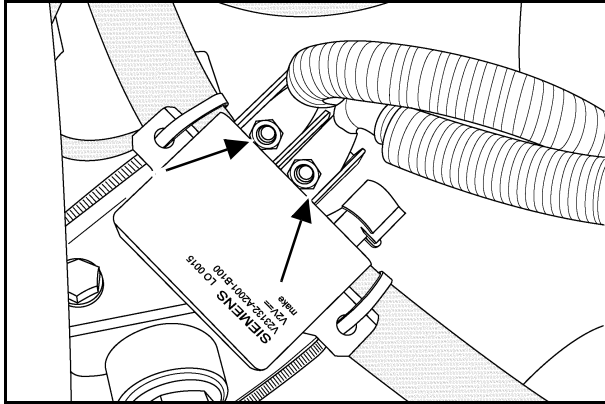
Remove the battery cable (1) and exciter wire (2) from the alternator.

STEP 37

MD05N115

Remove the heater grid solenoid coil wire connector from the solenoid.

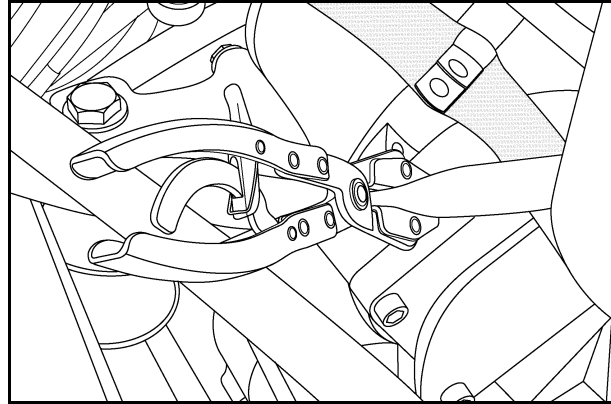
STEP 38



MD05N116

Label and remove the cables from the grid heater solenoid.

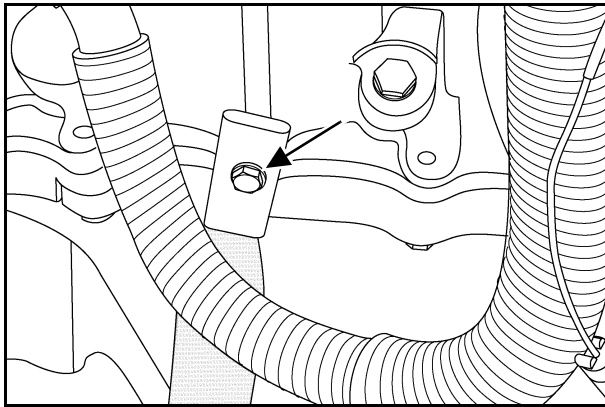
STEP 41



MD05N119

Install a clamp on the fuel supply hose.

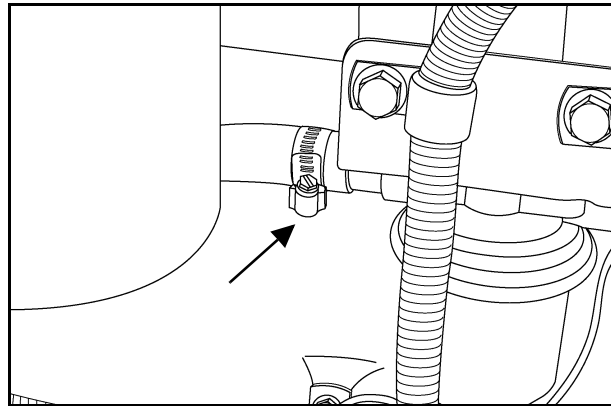
STEP 39



MD05N117

Remove the ground strap from the engine.

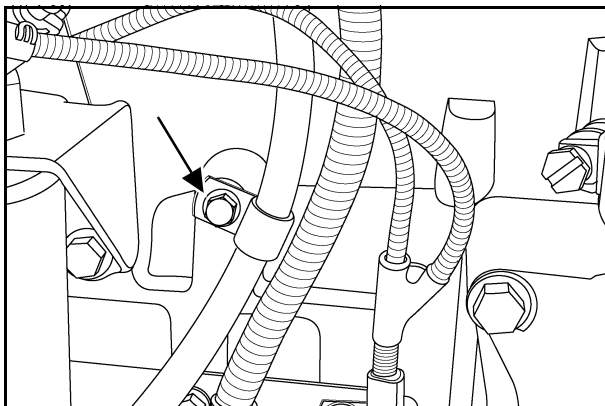
STEP 42



MD05N162

Remove the fuel supply hose from the engine.

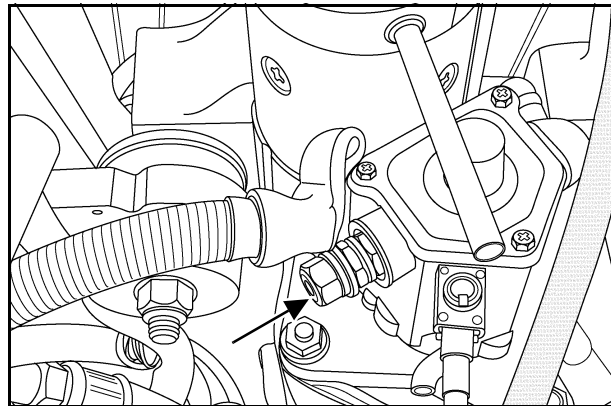
STEP 40



MD05N118

Remove the fuel hose P-clamp from the engine.

STEP 43



MD05N163

Remove the wires from the starter.



Suggest:

If the above button click is invalid.

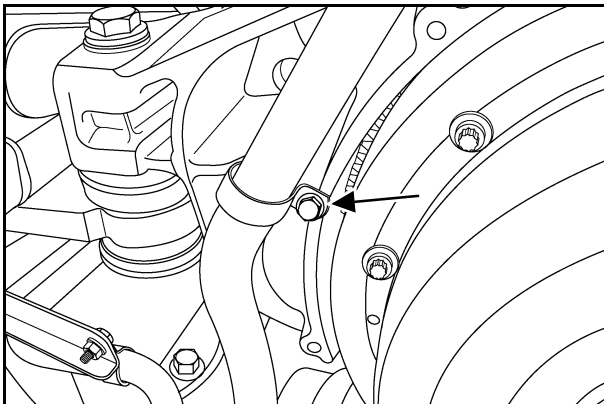
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Thank you so much for reading

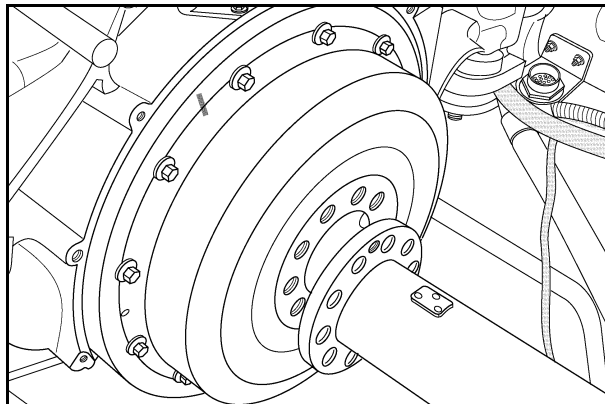
STEP 44



MD05N167

Remove the engine breather tube P-clamp from the engine.

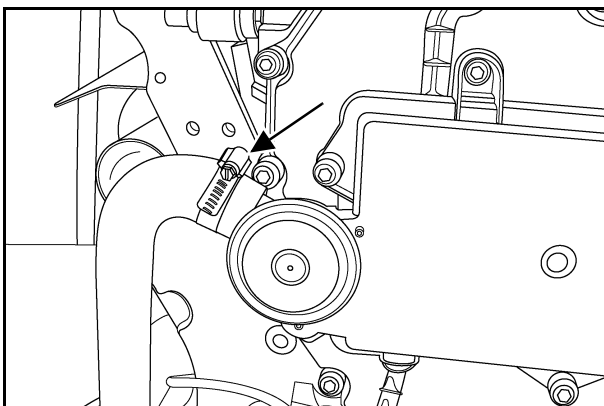
STEP 47



MD05N172

Move the driveshaft away from the engine drive coupler.

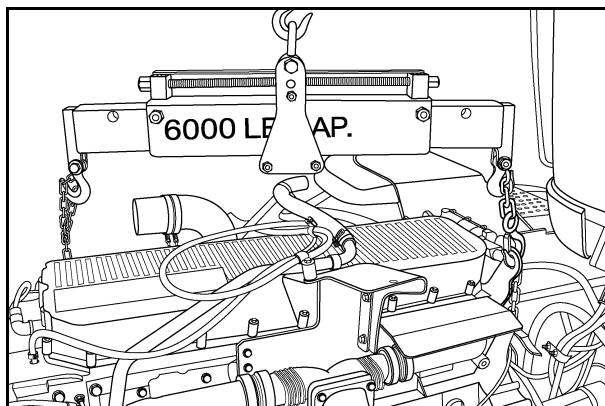
STEP 45



MD05N166

Remove the engine breather tube from the breather filter.

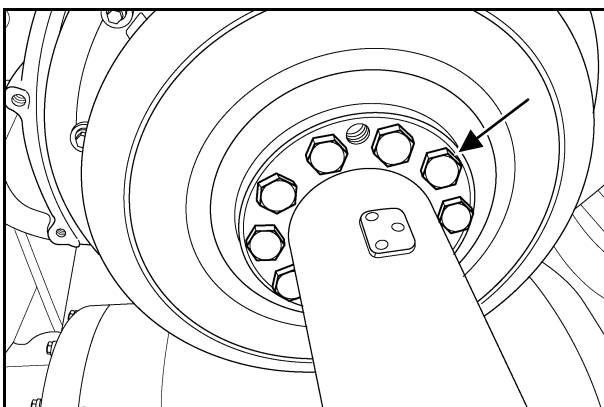
STEP 48



MD05N173

Install an OEM 4130 Load Rotor on the two engine lifting brackets. Attach the load rotor to an overhead hoist.

STEP 46



MD05N171

Remove the ten drive shaft mounting bolts.

IMPORTANT: *The engine lifting brackets are for vertical lifting only. Any lifting device that is not in-line vertically with the lifting brackets can damage the engine rocker arm cover or cause bracket failure.*

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