



Service Repair Manual

Models

527 TRACK SKIDDER

Product: TRACK SKIDDER

Model: 527 TRACK SKIDDER JSR

Configuration: 527 Track Skidder JSR00001-UP (MACHINE) POWERED BY 3304 Engine

Disassembly and Assembly 527 Track-Type Skidder Engine Supplement

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i01013728

Turbocharger - Remove and Install

SMCS - 1052-010

S/N - 3DS1-UP

S/N - BDW1-UP

S/N - JSR1-UP

S/N - PTR1-UP

Removal Procedure

Start By:

- A. Remove the hood. Refer to Disassembly and Assembly, "Hood - Remove and Install".

NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

NOTICE

Keep all parts clean from contaminants.

Contamination of the hydraulic system with foreign material will reduce the service life of the hydraulic system components.

To prevent contaminants from entering the hydraulic system, always plug or cap the lines, fittings, or hoses as they are disconnected. Cover any disassembled components and clean them properly before assembly.

Clean the hydraulic system properly after any major component exchange or especially after a component failure, to remove any contamination.

Note: Put identification marks on all lines, on all hoses, on all wires and on all tubes for installation purposes. Plug all lines, all hoses and all tubes. This will help to prevent fluid loss and this will help to keep contaminants from entering the system.

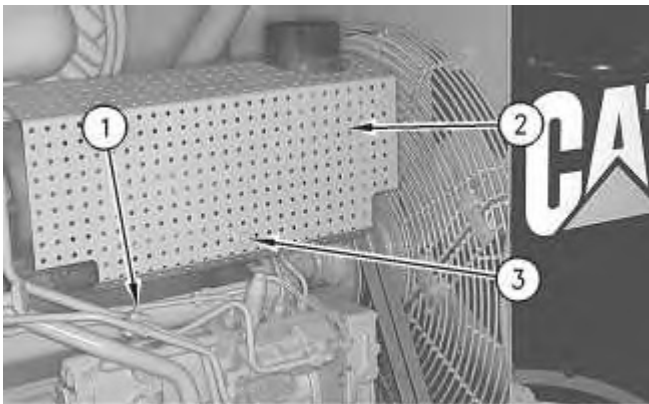


Illustration 1

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1. Remove bolts (3), the nuts, and the spacers that hold exhaust shield (2) in place on the exhaust elbow. Remove the shield (2).
 2. Remove the bolts and clips (1) that hold the tube assemblies together.
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Illustration 2

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3. Remove bolts (5), and exhaust elbow (4) and coupling from the turbocharger.

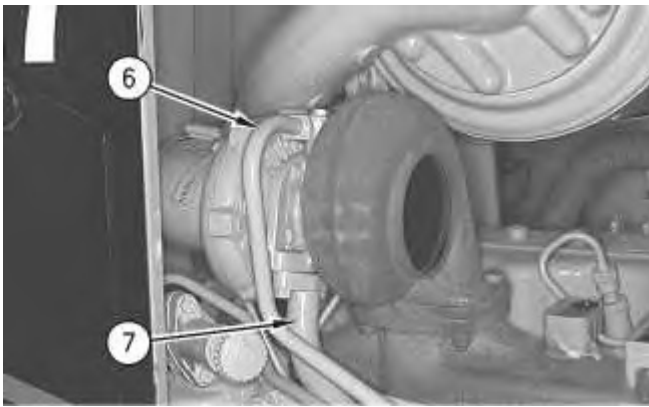


Illustration 3

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4. Remove oil supply tube assembly (6) and oil drain tube assembly (7) from the turbocharger and the cylinder block.

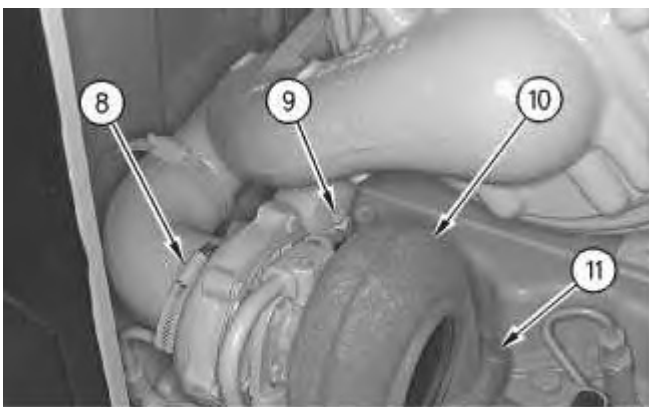


Illustration 4

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5. Loosen hose clamp (8) and loosen bolt (9) that secures the hoses to turbocharger (10) .
6. Remove bolts (11), nuts, turbocharger (10) and the gasket from the exhaust manifold and the two hoses.

Installation Procedure

Note: Replace the gaskets if the gaskets are damaged. Replace the seals if the seals are damaged.

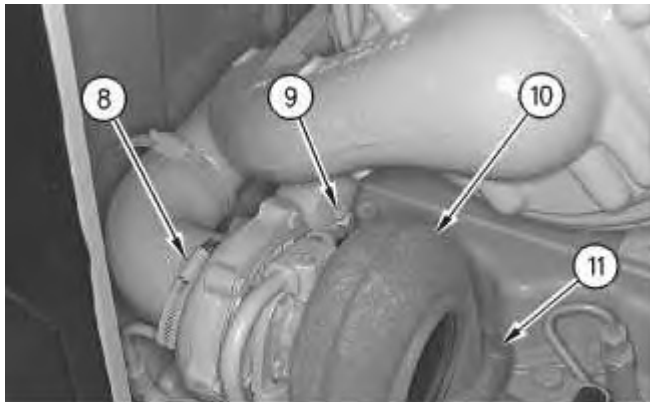


Illustration 5

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1. Position the gasket and turbocharger (10) on the exhaust manifold and the two hoses. Apply **5P-3931** Anti-Seize Compound to the threads of the bolts. Install bolts (11) and the nuts that hold the turbocharger in place. Tighten the bolts to a torque of 55 ± 40 N·m (486 ± 354 lb in).
2. Tighten hose clamps (8) and (9) .

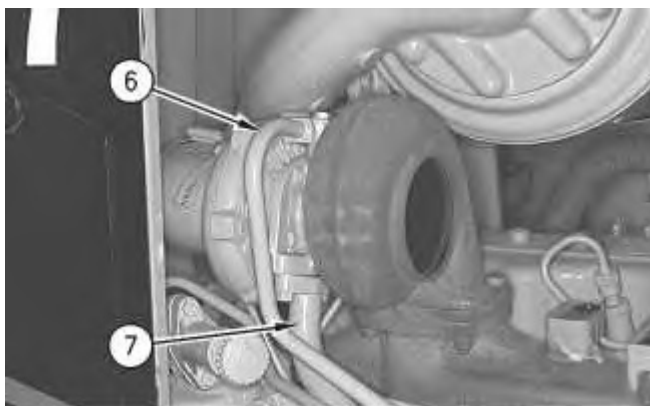


Illustration 6

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3. Install oil supply tube assembly (6) and oil drain tube assembly (7) to the cylinder block and the turbocharger.

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