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BASIC ENGINE

Systems Operation

3056E Engines for Caterpillar Built Machines - RENR2416

- Introduction
- Basic Engine

Testing and Adjusting

3056E Engines for Caterpillar Built Machines - RENR2416

- Finding Top Center Position for No. 1 Piston
- Fuel Injection Nozzle - Test
- Gear Group (Front) - Time
- Compression - Test
- Engine Valve Lash - Inspect/Adjust
- Valve Depth - Inspect
- Valve Guide - Inspect
- Excessive Bearing Wear - Inspect
- Piston Ring Groove - Inspect
- Connecting Rod - Inspect
- Cylinder Block - Inspect
- Cylinder Head - Inspect
- Cylinder Liner Projection - Inspect
- Piston Height - Inspect
- Flywheel - Inspect
- Flywheel Housing - Inspect
- Gear Group - Inspect
- Vibration Damper - Check
- Belt Tension Chart

Troubleshooting

3054E and 3056E Industrial Engines and Engines for Caterpillar Built Machines - RENR2417

- Engine Cranks but Will Not Start
- Engine Has Early Wear
- Engine Misfires, Runs Rough or Is Unstable
- Engine Vibration
- Engine Will Not Crank

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BRAKING SYSTEM

Systems Operation

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Braking and Hydraulic Fan System - RENR6428

- General Information (Braking)
- Gear Pump (Braking and Hydraulic Fan)
- Brake Accumulator
- Brake Control Valve (Service)
- Parking Brake

Testing and Adjusting

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Braking and Hydraulic Fan System - RENR6428

- System Pressure - Release
- Hydraulic Oil Contamination - Test
- Brake Accumulator - Test and Charge
- Service Braking System Pressure - Test
- Service Brake Control (Pedals) - Adjust
- Service Brakes - Test
- Brake System Air - Purge
- Parking Brake - Test
- Parking Brake - Manual Release
- Parking Brake Control - Adjust

Troubleshooting

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders - RENR6423

- Machine Preparation for Troubleshooting
- Visual Inspection
- Operational Checks (Brake, Hydraulic Fan System)
- Brake and Hydraulic Fan System
- MID 081 - CID 0070 - FMI 03
- MID 081 - CID 0070 - FMI 03
- MID 081 - CID 0070 - FMI 04
- MID 081 - CID 0070 - FMI 04

Specifications / Disassembly and Assembly

BRAKING SYSTEM - Specifications

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Braking and Hydraulic Fan

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COOLING SYSTEM

Systems Operation

3056E Engines for Caterpillar Built Machines - RENR2416

- Cooling System

Testing and Adjusting

3056E Engines for Caterpillar Built Machines - RENR2416

- Cooling System - Check
- Cooling System - Inspect
- Cooling System - Test
- Engine Oil Cooler - Inspect
- Water Temperature Regulator - Test
- Water Pump - Inspect

Troubleshooting

3054E and 3056E Industrial Engines and Engines for Caterpillar Built Machines - RENR2417

- Coolant Temperature Is Too High
- Engine Oil in Cooling System
- E015 High Engine Coolant Temperature Derate
- E016 High Engine Coolant Temperature Shutdown
- E017 High Engine Coolant Temperature Warning

Specifications / Disassembly and Assembly

COOLER GP - Specifications

3056E Engine for Caterpillar Built Machines - RENR2401

- Engine Oil Filter Bypass Valve
- Engine Oil Cooler

COOLER GP - Disassembly and Assembly

3056E Engine for Caterpillar Built Machines - RENR2400

- Engine Oil Cooler - Remove
- Engine Oil Cooler - Install

FAN GP - Disassembly and Assembly

3056E Engine for Caterpillar Built Machines - RENR2400

- Fan - Remove and Install
- Fan Drive - Remove and Install

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Engine Supplement - RENR6437

- Radiator and Fan Group - Remove
- Radiator and Fan Group - Install

LINES GP-WATER - Specifications

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ELECTRICAL AND STARTING SYSTEM

Systems Operation

3056E Engines for Caterpillar Built Machines - RENR2416

- Electrical System
- Electronic Control System

924G and 924Gz Wheel Loaders Hydraulic System - RENR6431

- Coupler Control

All Products Air Conditioning and Heating R134a for All Caterpillar Machines - SENR5664

- Pressure Switch (Refrigerant)

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Power Train - RENR6425

- Introduction
- Features
- Location of Electrical Components
- Electrical Input Components
- Electronic Control Module (Machine)
- Electrical Output Components
- Data Link
- Electrical Schematic (Transmission)

IT28G Integrated Toolcarrier and 924G, 924Gz and 928G Wheel Loaders - RENR6439

- Engine Starting Circuit
- Charging Circuit
- Rear Window Defroster Circuit
- Speed Limiting Function

IT28G Integrated Toolcarrier and 924G, 924Gz and 928G Wheel Loaders Steering System - RENR6427

- Secondary Steering Pump and Electric Motor

Machine Security System - RENR2462

- General Information
- System Overview
- Normal Operation
- Operation of Status Indicator
- Key Information
- Scheduled Access - "Security System Bypass Times"
- Diagnostic Operation
- Events
- Protected Functions

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Air Inlet Heater - Test

SMCS - 1090-081

Tests For The Air Inlet Heater

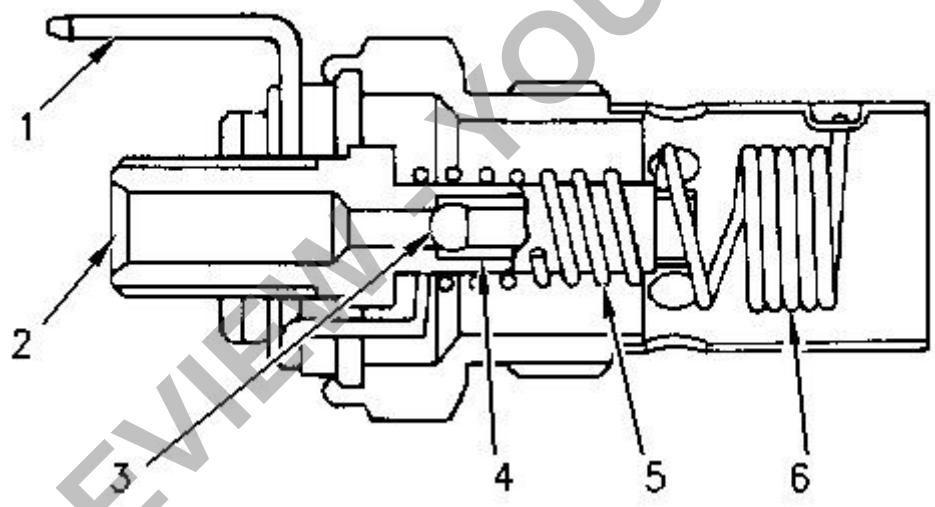


Illustration 1 g00910925

(1) Electrical connection

(2) Fuel inlet

(3) Ball valve

(4) Valve holder

(5) Wire coil

(6) Ignition coil

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System Overview

SMCS - 1900

System Operation

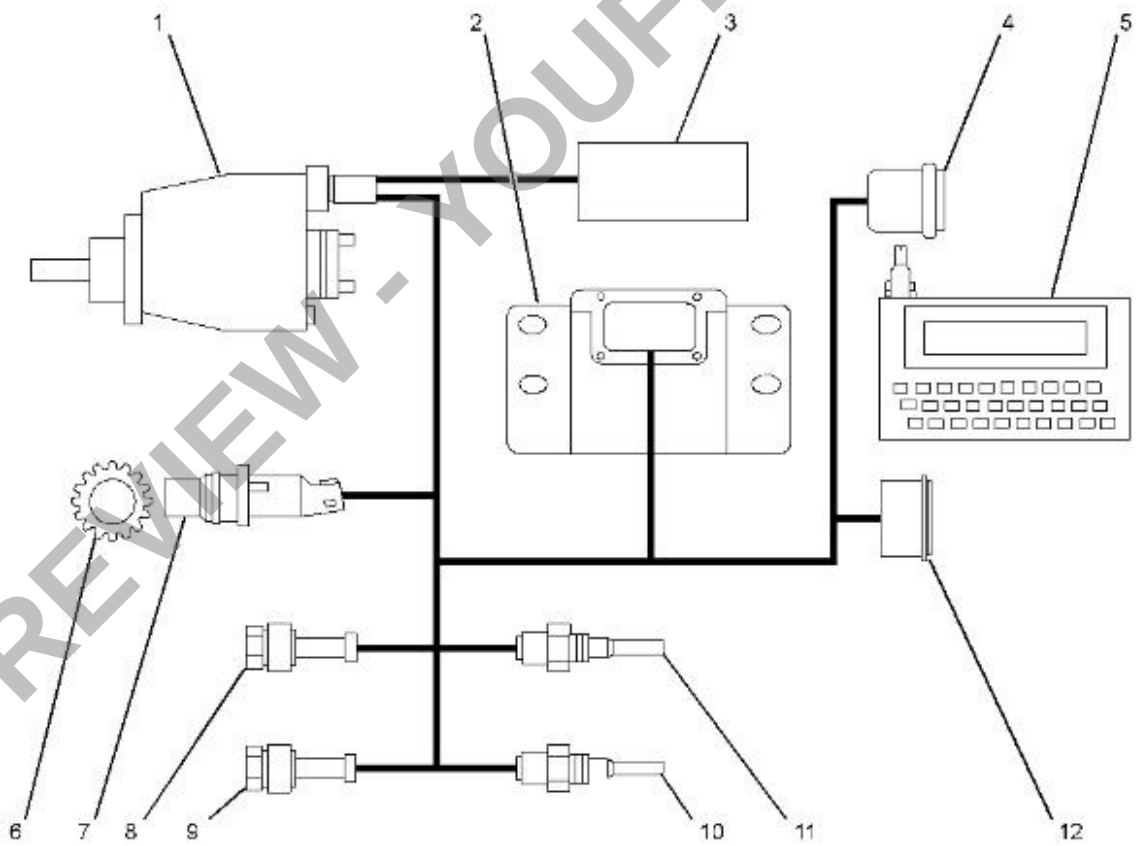


Illustration 1 g01325275

Schematic diagram of the fuel system

(1) Fuel injection pump

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ENGINE ARRANGEMENT

Testing and Adjusting

3056E Engines for Caterpillar Built Machines - RENR2416

- Engine Speed - Check

Specifications / Disassembly and Assembly

ENGINE AR - Specifications

3056E Engine for Caterpillar Built Machines - RENR2401

- Engine Design

ENGINE AR - Disassembly and Assembly

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Engine Supplement - RENR6437

- Steering Frame Lock - Separate and Connect
- System Pressure - Release
- Engine - Remove
- Engine - Install

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FRAME AND BODY

Specifications / Disassembly and Assembly

FRAME GP - Disassembly and Assembly

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Machine Systems - RENR6433

- Steering Frame Lock - Separate and Connect
- Loader Frame and Rear Frame - Separate
- Loader Frame and Rear Frame - Connect

GUARD GP - Disassembly and Assembly

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Power Train - RENR6422

- Power Train Guard (Transmission) - Remove and Install

HITCH GP - Specifications

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Steering System - RENR6426

- Articulated Hitch

HOOD GP - Disassembly and Assembly

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Engine Supplement - RENR6437

- Hood - Remove
- Hood - Install

LINK GP-STEERING FRAME LOCK - Disassembly and Assembly

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Machine Systems - RENR6433

- Steering Frame Lock - Separate and Connect

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Power Train - RENR6422

- Steering Frame Lock - Separate and Connect

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FUEL SYSTEM

Systems Operation

3056E Engines for Caterpillar Built Machines - RENR2416

- Fuel Injection

Testing and Adjusting

3056E Engines for Caterpillar Built Machines - RENR2416

- Fuel System - Inspect
- Air in Fuel - Test
- Fuel Injection Nozzle - Test
- Fuel Injection Timing - Check
- Fuel Quality - Test
- Fuel System - Prime
- Fuel System Pressure - Test

Troubleshooting

3054E and 3056E Industrial Engines and Engines for Caterpillar Built Machines - RENR2417

- Can Not Reach Top Engine RPM
- Engine Cranks but Will Not Start
- Engine Has Early Wear
- Engine Misfires, Runs Rough or Is Unstable
- Engine Stalls at Low RPM
- Excessive White Smoke
- Intermittent Engine Shutdown
- Intermittent Low Power or Power Cutout
- Low Power/Poor or No Response to Throttle
- CID 1627 FMI 03
- CID 1684 FMI 00
- CID 1684 FMI 02
- CID 1684 FMI 03
- CID 1684 FMI 04
- CID 1684 FMI 05
- CID 1684 FMI 07
- CID 1684 FMI 08
- CID 1684 FMI 09

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HYDRAULIC SYSTEM

Systems Operation

924G and 924Gz Wheel Loaders Hydraulic System - RENR6431

- General Information
- Oil Filter (Hydraulic)
- Hydraulic Oil Cooler
- Piston Pump (Steering and Pilot)
- Piston Pump (Implement)
- Pilot Hydraulic System
- Pilot Valve
- Main Control Valve
- Control Valve (Tilt) (VersaLink)
- Control Valve (Lift) (VersaLink)
- Control Valve (Auxiliary)
- Relief Valve (Line)
- Ride Control System

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Braking and Hydraulic Fan System - RENR6428

- Hydraulic Oil Cooler
- Gear Motor (Hydraulic Fan)

Testing and Adjusting

924G and 924Gz Wheel Loaders Hydraulic System - RENR6431

- General Testing and Adjusting Information
- System Pressure - Release
- Hydraulic Oil Contamination - Test
- Piston Pump Pressure - Test and Adjust
- Pump Performance (Implement) - Test
- Pilot System Pressure - Test
- Relief Valve (Line) - Test and Adjust
- Pilot Oil Accumulator - Test and Charge
- Ride Control Accumulator - Test and Charge

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Braking and Hydraulic Fan System - RENR6428

- System Pressure - Release
- Hydraulic Oil Contamination - Test

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IMPLEMENTS

Specifications / Disassembly and Assembly

CONTROL GP - Specifications

924G and 924Gz Wheel Loaders Hydraulic System - RENR6430

- Work Tool Control
- Work Tool Control

CONTROL GP - Disassembly and Assembly

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Machine Systems - RENR6433

- Tilt Lever (Front) and Tilt Link (Front) - Remove
- Tilt Lever (Front) and Tilt Link (Front) - Install
- Tilt Lever (Rear) - Remove
- Tilt Lever (Rear) - Install
- Tilt Link (Rear) - Remove
- Tilt Link (Rear) - Install
- Lift Arms - Remove
- Lift Arms - Install

COUNTERWEIGHT GP - Disassembly and Assembly

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Machine Systems - RENR6433

- Counterweight - Remove
- Counterweight - Install

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LUBRICATION SYSTEM

Systems Operation

3056E Engines for Caterpillar Built Machines - RENR2416

- Lubrication System

Testing and Adjusting

3056E Engines for Caterpillar Built Machines - RENR2416

- Engine Oil Pressure - Test
- Engine Oil Pump - Inspect
- Excessive Engine Oil Consumption - Inspect
- Increased Engine Oil Temperature - Inspect

Troubleshooting

3054E and 3056E Industrial Engines and Engines for Caterpillar Built Machines - RENR2417

- Coolant in Engine Oil
- Excessive Engine Oil Consumption
- Low Engine Oil Pressure
- E040 Low Engine Oil Pressure Shutdown
- E100 Low Engine Oil Pressure Warning

Specifications / Disassembly and Assembly

BREATHER GP - Specifications

3056E Engine for Caterpillar Built Machines - RENR2401

- Crankcase Breather

FILTER GP-ENGINE OIL - Specifications

3056E Engine for Caterpillar Built Machines - RENR2401

- Engine Oil Filter Base
- Engine Oil Filter Bypass Valve
- Engine Oil Bypass Valve

FILTER GP-ENGINE OIL - Disassembly and Assembly

3056E Engine for Caterpillar Built Machines - RENR2400

- Engine Oil Filter Base - Remove and Install

PUMP GP-ENGINE OIL - Specifications

3056E Engine for Caterpillar Built Machines - RENR2401

- Engine Oil Pump
- Engine Oil Bypass Valve

PUMP GP-ENGINE OIL - Disassembly and Assembly

3056E Engine for Caterpillar Built Machines - RENR2400

- Engine Oil Bypass Valve - Remove
- Engine Oil Bypass Valve - Install

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MACHINE ARRANGEMENT

Systems Operation

All Products Air Conditioning and Heating R134a for All Caterpillar Machines - SENR5664

- Service Intervals

Testing and Adjusting

All Products Air Conditioning and Heating R134a for All Caterpillar Machines - SENR5664

- Heating and Air Conditioning Service Publications

Troubleshooting

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders - RENR6423

- General Information
- Symptom Troubleshooting
- Emerging Symptom Information

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OPERATOR STATION

Systems Operation

3056E Engines for Caterpillar Built Machines - RENR2416

- Power Sources

All Products Air Conditioning and Heating R134a for All Caterpillar Machines - SENR5664

- General Information
- Identifying the Refrigerant
- Identifying the Air Conditioning System
- Identifying the Heating System
- Refrigerant Expansion Valve System
- Refrigerant Orifice Tube System
- Refrigerant Compressor
- Refrigerant Condenser
- Refrigerant Receiver-Dryer
- Refrigerant Expansion Valve
- In-line Refrigerant Dryer
- Refrigerant Orifice Tube Assembly
- Evaporator Coil
- Refrigerant Accumulator
- Refrigerant Compressor Protection System
- Temperature Control
- Cab Pressurization and Filtration System
- Condensate Drainage System
- Service Intervals
- Glossary of Terms

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Machine Monitor System - RENR6438

- Introduction
- Features
- Location of Electrical Components
- Component Description
- Data Link
- Warning Operation
- Diagnostic Operation

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POWER TRAIN

Systems Operation

3056E Engines for Caterpillar Built Machines - RENR2416

- Power Sources

All Products Air Conditioning and Heating R134a for All Caterpillar Machines - SENR5664

- General Information
- Identifying the Refrigerant
- Identifying the Air Conditioning System
- Identifying the Heating System
- Refrigerant Expansion Valve System
- Refrigerant Orifice Tube System
- Refrigerant Compressor
- Refrigerant Condenser
- Refrigerant Receiver-Dryer
- Refrigerant Expansion Valve
- In-line Refrigerant Dryer
- Refrigerant Orifice Tube Assembly
- Evaporator Coil
- Refrigerant Accumulator
- Refrigerant Compressor Protection System
- Temperature Control
- Cab Pressurization and Filtration System
- Condensate Drainage System
- Service Intervals
- Glossary of Terms

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Machine Monitor System - RENR6438

- Introduction
- Features
- Location of Electrical Components
- Component Description
- Data Link
- Warning Operation
- Diagnostic Operation

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Schematic

- 924G and 924GZ Wheel Loader Hydraulic System (Interactive) 203-3878-04/2033879-03
- 924G and 924Gz Wheel Loader / 928G Wheel Loader / 930G Wheel Loader Electrical System (Interactive) (For Serial Numbers DDA1623-UP, RBB734-UP, RTA325-UP, DJD1547-UP) All Other Serial Numbers 1-UP) 263-8382-02
- 924G Wheel Loader, 928G Wheel Loader, IT28G Integrated Tool Carrier Electrical System (Interactive) 205-8432-00 (For Serial Numbers DDA1-1622, RTA1-324, RBB1-733, WMB1-654, WGX1-647, DJD1-1546, WLG1-589, and WAC1-493. All other Serial Numbers 1-UP)

- Fluid Power and Electrical Graphic Symbols

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SERVICE EQUIPMENT AND SUPPLIES

Systems Operation

All Products Air Conditioning and Heating R134a for All Caterpillar Machines - SENR5664

- Cab Pressurization and Filtration System

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Power Train - RENR6425

- Oil Filter (Power Train)

Testing and Adjusting

All Products Air Conditioning and Heating R134a for All Caterpillar Machines - SENR5664

- Manifold Gauge Set (Refrigerant) - Install
- Manifold Gauge Set (Refrigerant) - Remove
- Heating and Air Conditioning Service Publications

Troubleshooting

All Products Air Conditioning and Heating R134a for All Caterpillar Machines - SENR5664

- Required Tools

Specifications / Disassembly and Assembly

FILTERS - Specifications

3056E Engine for Caterpillar Built Machines - RENR2401

- Fuel Filter Base

924G and 924Gz Wheel Loaders Hydraulic System - RENR6430

- Oil Filter (Hydraulic)

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Power Train - RENR6424

- Oil Filter (Power Train)

FILTERS - Disassembly and Assembly

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Engine Supplement - RENR6437

- Air Cleaner - Remove and Install

GASKET & SEAL KITS - Disassembly and Assembly

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Engine Supplement - RENR6437

- Crankshaft Front Seal - Remove
- Crankshaft Front Seal - Install

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Power Train - RENR6422

- Duo-Cone Conventional Seals - Install

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STEERING SYSTEM

Systems Operation

IT28G Integrated Toolcarrier and 924G, 924Gz and 928G Wheel Loaders Steering System - RENR6427

- General Information (Steering)
- Piston Pump (Steering and Pilot)
- Metering Pump (HMU)
- Secondary Steering System - If Equipped
- Secondary Steering Pump and Electric Motor

Testing and Adjusting

IT28G Integrated Toolcarrier and 924G, 924Gz and 928G Wheel Loaders Steering System - RENR6427

- System Pressure - Release
- Hydraulic Oil Contamination - Test
- Pump Performance (Steering) - Test
- Piston Pump (Steering and Pilot) Low Pressure Standby - Test and Adjust
- Piston Pump (Steering and Pilot) High Pressure Stall - Test and Adjust
- Piston Pump (Steering and Pilot) Margin Pressure - Test and Adjust
- Steering Wheel Slip - Check
- Metering Pump (HMU) - Test

Troubleshooting

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders - RENR6423

- Machine Preparation for Troubleshooting
- Visual Inspection
- Operational Checks (Steering System)
- Steering System

Specifications / Disassembly and Assembly

STEERING SYSTEM - Specifications

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Steering System - RENR6426

- Hydraulic Tank
- Hydraulic Tank
- Oil Filter (Hydraulic)
- Oil Filter (Hydraulic)

STEERING SYSTEM - Disassembly and Assembly

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Machine Systems - RENR6433

- System Pressure - Release

CYLINDER GP - Specifications

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Torque Specifications

- General Information 01/01/2013
  - Introduction to Torque 01/01/2013
  - Torque-Turn 01/01/2013
  - Torque Sequence 01/01/2013
- Metric (ISO) Fasteners 01/01/2013
  - Metric (ISO) Nuts and Bolts 01/01/2013
  - Metric (ISO) Taperlock Studs 01/01/2013
  - Metric (ISO) Machine Screws 01/01/2013
  - Hex Button Head Screw and Set Screws 01/01/2013
- English (SAE) Fasteners 01/01/2013
  - English (SAE) Nuts and Bolts 01/01/2013
  - English (SAE) Taperlock Studs 01/01/2013
  - English (SAE) Machine Screws 01/01/2013
  - Hex Button Head Screw and Set Screws 01/01/2013
- Ground Engaging Tool (G.E.T.) Fasteners 01/01/2013
- Installation of Fittings 01/01/2013
  - Installation of Hydraulic Four Bolt Flange 01/01/2013
  - Installation of Adjustable STOR Fittings 01/01/2013
- Straight Thread O-Ring Fittings 01/01/2013
- Plugs 01/01/2013
  - Straight Thread O-Ring Plugs 01/01/2013
  - Drain Plugs with Straight Threads 01/01/2013
- O-Ring Face Seal Fittings 01/01/2013
- Bulkhead Nuts 01/01/2013
- Flare Fittings 01/01/2013
  - 37 Degree Flare Fittings 01/01/2013
  - 45 Degree Flare and Inverted Flare Fittings 01/01/2013
- Air Conditioning Fittings 01/01/2013
- Air Brake Fittings 01/01/2013
- Tapered Pipe Thread Fittings 01/01/2013
- Miscellaneous Fittings 01/01/2013
  - Hi Duty Tube Fittings (Shear Sleeve) 01/01/2013
  - SAE Flareless Fittings 01/01/2013
    - Installing a New Flareless Fitting 01/01/2013
    - Installing a Used Flareless Fitting 01/01/2013
  - Flex Fittings 01/01/2013
- Hose Clamps 01/01/2013
  - Worm Drive Band Type Clamps 01/01/2013
  - Constant Torque Hose Clamps 01/01/2013

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WORK TOOLS

Systems Operation

924G and 924Gz Wheel Loaders Hydraulic System - RENR6431

- Coupler Control

Specifications / Disassembly and Assembly

BUCKET GP - Disassembly and Assembly

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Machine Systems - RENR6433

- Bucket - Remove
- Bucket - Install

COUPLER GP-QUICK - Disassembly and Assembly

IT28G Integrated Toolcarrier and 924G, 924GZ and 928G Wheel Loaders Machine Systems - RENR6433

- Quick Coupler - Remove
- Quick Coupler - Install
- Pin Coupler Cylinder - Remove and Install

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Air Inlet and Exhaust System

SMCS - 1050

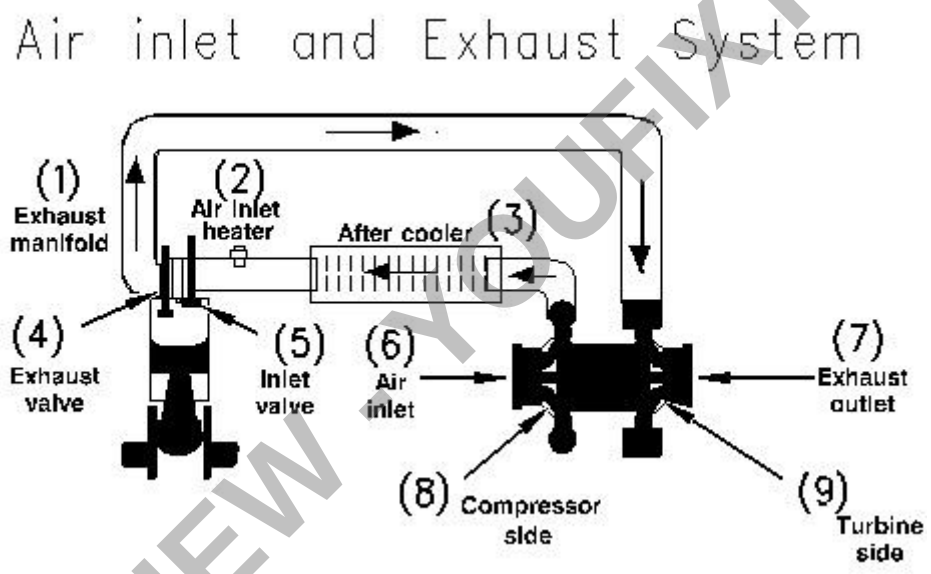


Illustration 1 g00904874

Air inlet and exhaust system

(1) Exhaust manifold

(2) Air inlet heater

(3) Aftercooler core

(4) Exhaust valve

(5) Inlet valve

(6) Air inlet

(7) Exhaust outlet

(8) Compressor side of turbocharger

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Test Step 2. Perform the following diagnostic procedure: Digital Throttle Position Sensor Circuit - Test

Results:

- **OK - STOP**

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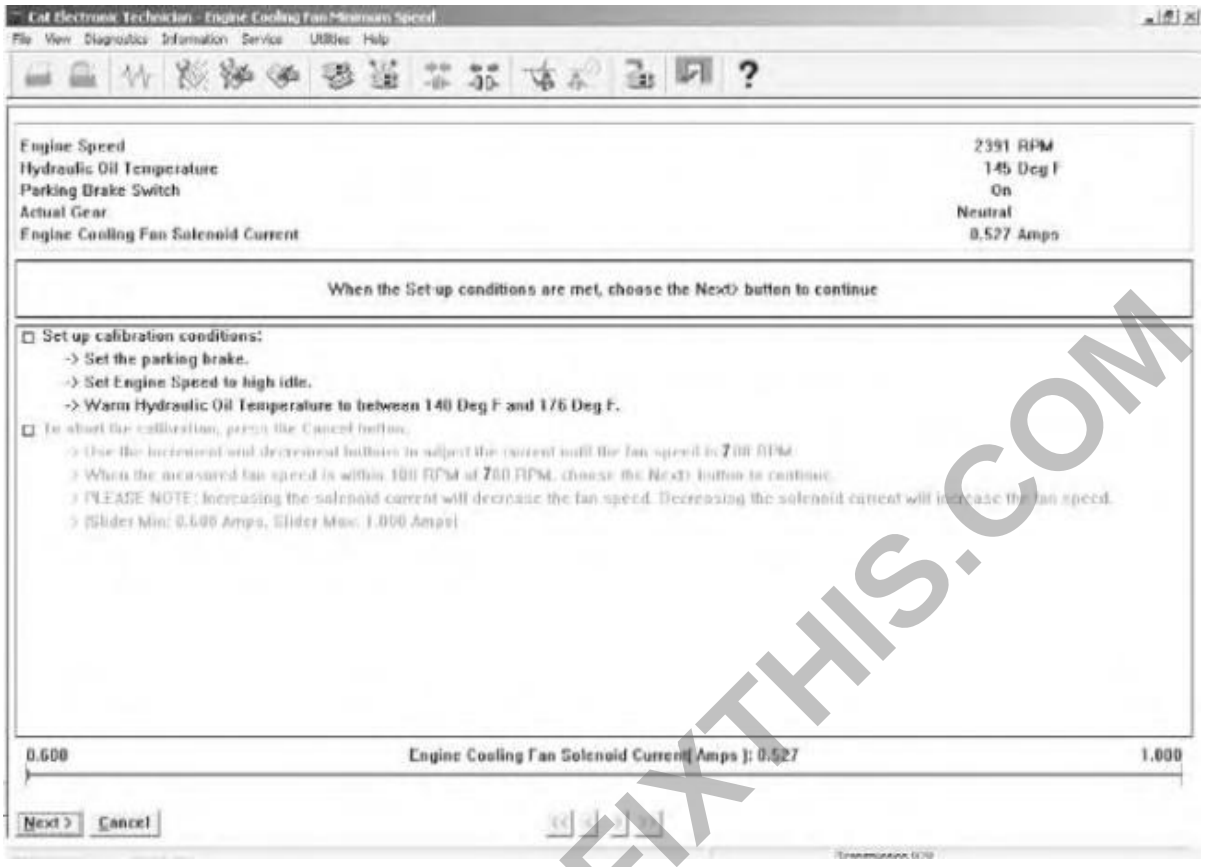


Illustration 10 g00925407

1. The next screen is the initial calibration screen. The screen displays the instructions for calibration. The top display area displays status parameters that are monitored during the calibration. The middle display area displays information about the status of the calibration. The display area on the bottom will display the conditions for the setup and the instructions for the calibration.

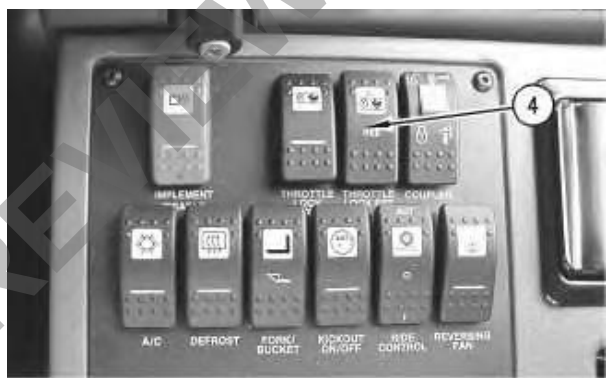


Illustration 11 g00996966

2. The display area will show the following conditions for the setup:
   - Set the parking brake.
   - Operate the engine at high idle. Use the throttle lock (4) in order to operate the engine at high idle.

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Relief Valve (Transmission Hydraulic Control)

SMCS - 3210

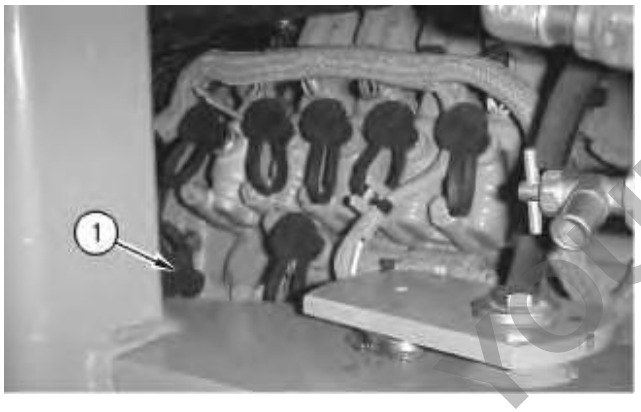


Illustration 1 g00913290

The transmission relief valve (1) controls the maximum pressure of the clutches that are engaged. The transmission relief valve controls the flow of oil that enters the modulating valves and the transmission relief valve directs the remaining oil to the torque converter. The controlled flow provides a constant fill time for the clutches through the entire engine speed range.

The transmission relief valve (1) is located on the transmission case beneath the modulating valves.

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