AIR INLET AND EXHAUST SYSTEM

Systems Operation

3176C and 3196 Engines for Caterpillar Built Machines - RENR1222

- Air Inlet and Exhaust System

Testing and Adjusting

3176C and 3196 Engines for Caterpillar Built Machines - RENR1222

- Air Inlet and Exhaust System - Inspect
- Turbocharger - Inspect
- Inlet Manifold Pressure - Test
- Exhaust Temperature - Test
- Aftercooler - Test

Troubleshooting

3196 Engine for 365B, 365B Series II, and 365BL Excavators - RENR1283

- Exhaust Has Excessive Black Smoke
- Exhaust Has Excessive White Smoke
- Exhaust System Contains Oil
- Exhaust Temperature Is High
- Inlet Air Temperature Is High

365B, 365B Series II, 365BL, 385B and 5090B Excavators Vital Information Display System (VIDS) - RENR3102

- Filter Switch (Air Cleaner)

Specifications / Disassembly and Assembly

AFTERCOOLER GP - Disassembly and Assembly

365B and 365B Series II Excavators Supplement for 3196 Engine - RENR1971

- Inner Cooler - Remove and Install

AIR CLEANER GP - Disassembly and Assembly

365B and 365B Series II Excavators Supplement for 3196 Engine - RENR1971

- Precleaner - Remove and Install
- Air Cleaner - Remove and Install

EXHAUST GP - Disassembly and Assembly

3176C and 3196 Engines for Caterpillar Built Machines - RENR1223

- Exhaust Manifold - Remove and Install

365B and 365B Series II Excavators Supplement for 3196 Engine - RENR1971

- Exhaust Extension - Remove and Install

LINES GP-AIR - Disassembly and Assembly

365B and 365B Series II Excavators Supplement for 3196 Engine - RENR1971

- Inner Cooler - Remove and Install

MANIFOLD GP-EXHAUST - Specifications

3176C and 3196 Engines for Caterpillar Built Machines - RENR1217

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BASIC ENGINE

Systems Operation

3176C and 3196 Engines for Caterpillar Built Machines - RENR1222

- Basic Engine
- Rear Power Take-Off (RPTO)

Testing and Adjusting

3176C and 3196 Engines for Caterpillar Built Machines - RENR1222

- Finding Top Center Position for No. 1 Piston
- Gear Group (Front) - Time
- Engine Crankcase Pressure (Blowby) - Test
- Compression - Test
- Engine Valve Lash - Inspect/Adjust
- Excessive Bearing Wear - Inspect
- Piston Ring Groove - Inspect
- Connecting Rod Bearings - Inspect
- Main Bearings - Inspect
- Cylinder Block - Inspect
- Cylinder Liner Projection - Inspect
- Flywheel - Inspect
- Flywheel Housing - Inspect
- Vibration Damper - Check

365B and 365B Series II Excavators Hydraulic System - RENR5487

- Engine Performance - Test - Engine Speed

Troubleshooting

3196 Engine for 365B, 365B Series II, and 365BL Excavators - RENR1283

- Cylinder Is Noisy
- Engine Has Early Wear
- Engine Vibration Is Excessive
- Valve Lash Is Excessive
- Valve Rotator or Spring Lock Is Free

365B, 365B Series II, 365BL, 385B and 5090B Excavators Vital Information Display System (VIDS) - RENR3102

- Liquid Level Switch (Engine Oil)

Specifications / Disassembly and Assembly

BELT TIGHTENER GP - Specifications

3176C and 3196 Engines for Caterpillar Built Machines - RENR1217

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COOLING SYSTEM

Systems Operation

3176C and 3196 Engines for Caterpillar Built Machines - RENR1222

- Cooling System

Testing and Adjusting

3176C and 3196 Engines for Caterpillar Built Machines - RENR1222

- Cooling System - Check - Overheating
- Cooling System - Inspect
- Cooling System - Test
- Water Temperature Regulator - Test

365B and 365B Series II Excavators Hydraulic System - RENR5487

- Fan Motor Speed (Hydraulic and Radiator Cooling) - Test and Adjust

Troubleshooting

3196 Engine for 365B, 365B Series II, and 365BL Excavators - RENR1283

- Coolant Contains Fuel
- Coolant Contains Oil
- Coolant Temperature Is High
- Oil Contains Coolant

Specifications / Disassembly and Assembly

COOLER GP - Disassembly and Assembly

3176C and 3196 Engines for Caterpillar Built Machines - RENR1223

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

365B and 365B Series II Excavators Supplement for 3196 Engine - RENR1971

- Engine Oil Cooler - Remove and Install

FAN GP - Disassembly and Assembly

365B and 365B Series II Excavators Supplement for 3196 Engine - RENR1971

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

365B, 365BL and 365BL Series II Excavators Machine Systems - RENR1970

- Pump (Hydraulic Oil Cooler and Fan Drive) - Remove
- Pump (Hydraulic Oil Cooler and Fan Drive) - Disassemble
- Pump (Hydraulic Oil Cooler and Fan Drive) - Assemble
- Pump (Hydraulic Oil Cooler and Fan Drive) - Install

LINES GP-WATER - Specifications

3176C and 3196 Engines for Caterpillar Built Machines - RENR1217

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ELECTRICAL AND STARTING SYSTEM

Systems Operation

3176C and 3196 Engines for Caterpillar Built Machines - RENR1222

- Electronic Control System Components
- Electrical System

320B, 320C, 322B, 322C, 325, 325B, 325C, 325D, 330, 330B, 330C, 330D, 345B, 345B Series II, 345C, 350, 350L, 365B, 365BL, 365BL Series II, 365C, 375L, 385C, 5080, M318, M320, M325B, M325C, M325D, W330B and W345B Series II Excavators Magnet Controller - RENR3825

- General Information
- Monitoring System
- Hydraulic Operation

365B and 365B Series II Excavators Hydraulic System - RENR3851

- Electronic Control System

365B, 365B Series II, 365BL, 385B and 5090B Excavators Machine Electronic Control System - RENR3103

- General Information
- System Operation
- Diagnostic Operation
- Calibration Operation
- Electronic Control Module (Machine)
- Switches
- Sensors
- Relays
- Related Components

365B, 365B Series II, 365BL, 385B and 5090B Excavators Vital Information Display System (VIDS) - RENR3102

- General Information
- Normal Operation
- Warning Operation
- Automatic Lubrication Function
- Component Descriptions
- VIDS Electronic Control Module
- Switches
- Sensors
- Relays
- Action Alarm
- Related Components

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ENGINE ARRANGEMENT

Systems Operation

3176C and 3196 Engines for Caterpillar Built Machines - RENR1222

- General Information

Testing and Adjusting

365B and 365B Series II Excavators Hydraulic System - RENR5487

- Engine Performance - Test - Engine Speed

Troubleshooting

3196 Engine for 365B, 365B Series II, and 365BL Excavators - RENR1283

- General Information
- Welding Precaution
- System Overview
- Component Location
- Acceleration Is Poor or Throttle Response Is Poor
- Engine Cranks but Does Not Start
- Engine Does Not Crank
- Engine Has Mechanical Noise (Knock)
- Engine Misfires, Runs Rough or Is Unstable
- Engine Overspeeds
- Engine Stalls at Low RPM
- Engine Top Speed Is Not Obtained
- Engine Vibration Is Excessive
- Power Is Intermittently Low or Power Cutout Is Intermittent
- Timing - Calibrate

Specifications / Disassembly and Assembly

ENGINE AR - Specifications

3176C and 3196 Engines for Caterpillar Built Machines - RENR1217

- Engine Design
- Engine Design

ENGINE AR - Disassembly and Assembly

365B and 365B Series II Excavators Supplement for 3196 Engine - RENR1971

- Engine - Remove
- Engine - Install

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FRAME AND BODY

Systems Operation

365B and 365B Series II Excavators Hydraulic System - RENR3851

- Swing Hydraulic System
- Counterweight (Removal and Installation Hydraulic System)

Troubleshooting

365B, 365B Series II, 365BL, 385B and 5090B Excavators Vital Information Display System (VIDS) - RENR3102

- Level Switch (Automatic Lubrication)

Specifications / Disassembly and Assembly

COUNTERWEIGHT GP - Specifications

365B and 365B Series II Excavators and 365B Series II Front Shovel Machine System Specifications - RENR1964

- Counterweight Lifting Chain

COUNTERWEIGHT GP - Disassembly and Assembly

365B, 365BL and 365BL Series II Excavators Machine Systems - RENR1970

- Counterweight - Remove and Install

DRIVE GP-SWING - Disassembly and Assembly

365B, 365BL and 365BL Series II Excavators Machine Systems - RENR1970

- Swing Drive - Remove
- Swing Drive - Disassemble
- Swing Drive - Assemble
- Swing Drive - Install

ENCLOSURE GP - Disassembly and Assembly

365B and 365B Series II Excavators Supplement for 3196 Engine - RENR1971

- Engine Enclosure Group - Remove and Install

FRAME GP - Specifications

365B and 365B Series II Excavators and 365B Series II Front Shovel Machine System Specifications - RENR1964

- Upper Frame

FRAME GP - Disassembly and Assembly

365B, 365BL and 365BL Series II Excavators Machine Systems - RENR1970

- Undercarriage Frame - Remove
- Undercarriage Frame - Install

GEAR & BEARING GP - Specifications

365B and 365B Series II Excavators and 365B Series II Front Shovel Machine System Specifications - RENR1964

- Swing Gear and Bearing

GEAR & BEARING GP - Disassembly and Assembly

365B, 365BL and 365BL Series II Excavators Machine Systems - RENR1970

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FUEL SYSTEM

Systems Operation

3176C and 3196 Engines for Caterpillar Built Machines - RENR1222

- Fuel System

Testing and Adjusting

3176C and 3196 Engines for Caterpillar Built Machines - RENR1222

- Air in Fuel - Test
- Electronic Unit Injector - Adjust
- Electronic Unit Injector - Test
- Fuel Quality - Test
- Fuel System - Prime
- Fuel System Pressure - Test

Troubleshooting

3196 Engine for 365B, 365B Series II, and 365BL Excavators - RENR1283

- Coolant Contains Fuel
- Exhaust Has Excessive Black Smoke
- Exhaust Has Excessive White Smoke
- Fuel Consumption Is Excessive
- Fuel Pressure Is High
- Fuel Pressure Is Low
- Fuel Temperature Is High
- Oil Contains Fuel
- Injector Solenoid - Test

365B, 365B Series II, 365BL, 385B and 5090B Excavators Vital Information Display System (VIDS) - RENR3102

- MID 051 - CID 0096 - FMI 03
- MID 051 - CID 0096 - FMI 04

Specifications / Disassembly and Assembly

FILTER GP-FUEL - Specifications

3176C and 3196 Engines for Caterpillar Built Machines - RENR1217

- Fuel Filter (Primary)

FILTER GP-FUEL - Disassembly and Assembly

3176C and 3196 Engines for Caterpillar Built Machines - RENR1223

- Fuel Filter Base - Remove and Install

365B and 365B Series II Excavators Supplement for 3196 Engine - RENR1971

- Fuel Filter (Secondary) and Fuel Filter Base - Remove and Install

LINES GP-FUEL - Specifications

3176C and 3196 Engines for Caterpillar Built Machines - RENR1217

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HYDRAULIC SYSTEM

Systems Operation

365B and 365B Series II Excavators Hydraulic System - RENR3851

- General Information
- Main Hydraulic System - Duplicate Load Signal
- Pilot Hydraulic System
- Gear Pump (Pilot)
- Hydraulic Filter (Pilot)
- Relief Valve (Pilot)
- Accumulator (Pilot)
- Solenoid Valve (Hydraulic Activation)
- Hydraulic Pedal Control - Straight Travel
- Hydraulic Pedal Control - Implement Control
- Main Hydraulic Pump
- Pump Control (Main Hydraulic) - Duplicate Load Signal
- Main Control Valve - Duplicate Load Signal
- Main Control Valve - Load Sensing Regulation (Duplicate Load Signal)
- Main Control Valve - Limiting Circuit Pressure (Duplicate Load Signal)
- Proportional Priority Pressure Compensation System
- Load Check Valve and Flow Compensator Valve
- Signal Duplication Valve
- Relief Valve (Signal)
- Relief Valve (Differential Pressure)
- Relief Valve (Line)
- Check Valve (Load)
- Boom Hydraulic System
- Boom Drift Reduction Valve
- Control Valve (Boom Lowering)
- Stick Hydraulic System
- Stick Drift Reduction Valve
- Control Valve (Stick Lowering)
- Bucket Hydraulic System
- Cylinders (Boom, Stick and Bucket)
- Swing Hydraulic System

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IMPLEMENTS

Specifications / Disassembly and Assembly

BOOM GP - Specifications

365B and 365B Series II Excavators and 365B Series II Front Shovel Machine System Specifications - RENR1964

- Boom - 7800 mm (307.1 inch)
- Boom
- Boom - Front Shovel

BOOM GP - Disassembly and Assembly

365B, 365BL and 365BL Series II
Excavators Machine Systems - RENR1970

- Boom - Remove
- Boom Bearings and Seals - Remove and Install
- Boom - Install

LINKAGE GP - Specifications

365B and 365B Series II Excavators and 365B Series II Front Shovel Machine System Specifications - RENR1964

- Bucket Linkage
- Bucket Linkage
- Bucket Linkage
- Bucket Linkage

LINKAGE GP - Disassembly and Assembly

365B, 365BL and 365BL Series II
Excavators Machine Systems - RENR1970

- Bucket Linkage - Remove
- Bucket Linkage Bearings and Seals - Remove
- Bucket Linkage Bearings and Seals - Install
- Bucket Linkage - Install

STICK GP - Specifications

365B and 365B Series II Excavators and 365B Series II Front Shovel Machine System Specifications - RENR1964

- Stick - 2995 mm (117.9 inch)
- Stick - 3600 mm (141.7 inch)
- Stick - 2840 mm (111.8 inch)
- Stick - 4670 mm (183.9 inch)
- Stick - 2574 mm (101.3 inch)
- Stick - 2840 mm (111.8 inch)
- Stick - 4670 mm (183.9 inch)

STICK GP - Disassembly and Assembly

365B, 365BL and 365BL Series II
Excavators Machine Systems - RENR1970

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LUBRICATION SYSTEM

Systems Operation

3176C and 3196 Engines for Caterpillar Built Machines - RENR1222

- Lubrication System

Testing and Adjusting

3176C and 3196 Engines for Caterpillar Built Machines - RENR1222

- Engine Crankcase Pressure (Blowby) - Test
- Excessive Engine Oil Consumption - Inspect
- Increased Engine Oil Temperature - Inspect

Troubleshooting

3196 Engine for 365B, 365B Series II, and 365BL Excavators - RENR1283

- Coolant Contains Oil
- Exhaust System Contains Oil
- Oil Consumption Is Excessive
- Oil Contains Coolant
- Oil Contains Fuel
- Oil Pressure Is Low

Specifications / Disassembly and Assembly

BREATHER GP - Disassembly and Assembly

365B and 365B Series II Excavators Supplement for 3196 Engine - RENR1971

- Crankcase Breather - Remove and Install

FILLER GP-ENGINE OIL - Disassembly and Assembly

365B and 365B Series II Excavators Supplement for 3196 Engine - RENR1971

- Engine Oil Filler - Remove and Install

FILTER GP-ENGINE OIL - Specifications

3176C and 3196 Engines for Caterpillar Built Machines - RENR1217

- Engine Oil Filter Base

FILTER GP-ENGINE OIL - Disassembly and Assembly

3176C and 3196 Engines for Caterpillar Built Machines - RENR1223

- Engine Oil Filter Base - Remove
- Engine Oil Filter Base - Disassemble
- Engine Oil Filter Base - Assemble
- Engine Oil Filter Base - Install

365B and 365B Series II Excavators Supplement for 3196 Engine - RENR1971

- Engine Oil Filter and Oil Filter Base - Remove and Install

FUMES DISPOSAL GP - Disassembly and Assembly

3176C and 3196 Engines for Caterpillar Built Machines - RENR1223

- Accessory Drive - 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

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OPERATOR STATION

Systems Operation

312B-5090B, M325B, W330B and W345B Series II Excavators Air Conditioning and Heating - RENR1976

- General Information
- Air Conditioning and Heating System Schematic
- Refrigerant Compressor
- Refrigerant Relief Valve
- Refrigerant Condenser
- In-line Refrigerant Dryer
- Evaporator Coil
- Refrigerant Accumulator
- Blower Motor
- Actuator Motor (Damper Assembly) - 204-3560 Control Gp
- Actuator Motor (Damper Assembly) - 150-1387 and 159-3665 Control Gp
- Actuator Motor (Water Valve) - 150-1387 Control Gp
- Actuator Motor (Water Valve) - 204-3560 Control Gp
- Control Panel - Automatic Temperature Control Unit (If Equipped)
- Control Panel - Automatic Temperature Control Unit
- Control Module - Heater and Air Conditioning Unit
- Speed Control - Speed Controller for the Fan
- Air Conditioning System Schematic
- Heater System (Cab)
- Heater Core (Cab)

320B, 320C, 322B, 322C, 325, 325B, 325C, 325D, 330, 330B, 330C, 330D, 345B, 345B Series II, 345C, 350, 350L, 365B, 365BL, 365BL Series II, 365C, 375L, 385C, 5080, M318, M320, M325B, M325C, M325D, W330B and W345B Series II Excavators Magnet Controller - RENR3825

- Magnet Controls
- Monitoring System

365B and 365B Series II Excavators Hydraulic System - RENR3851

- Hydraulic Pedal Control - Straight Travel
- Hydraulic Pedal Control - Implement Control
- Joystick Control
- Pump Control (Swing)

365B, 365B Series II, 365BL, 385B and 5090B Excavators Machine Electronic Control System - RENR3103

- Joystick Control

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POWER TRAIN

Systems Operation

365B and 365B Series II Excavators Hydraulic System - RENR3851

- Final Drive

Testing and Adjusting

365B and 365B Series II Excavators Hydraulic System - RENR5487

- Travel on Level Ground - Test - Optional Test
- Travel on Level Ground - Test

Specifications / Disassembly and Assembly

POWER TRAIN - Disassembly and Assembly

365B, 365BL and 365BL Series II Excavators Machine Systems - RENR1970

- Duo-Cone Conventional Seals - Install

DRIVE GP-FINAL - Specifications

365B and 365B Series II Excavators and 365B Series II Front Shovel Machine System Specifications - RENR1964

- Final Drive

DRIVE GP-FINAL - Disassembly and Assembly

365B, 365BL and 365BL Series II Excavators Machine Systems - RENR1970

- Duo-Cone Conventional Seals - Install
- Final Drive - Remove
- Final Drive - Disassemble
- Final Drive - Assemble
- Final Drive - Install

SPROCKET GP - Disassembly and Assembly

365B, 365BL and 365BL Series II Excavators Machine Systems - RENR1970

- Sprocket - Remove and Install

TRACK GP - Disassembly and Assembly

365B, 365BL and 365BL Series II Excavators Machine Systems - RENR1970

- Track Roller - Remove
- Track Roller - Disassemble
- Track Roller - Assemble
- Track Roller - Install
- Track - Separate
- Track - Connect

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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

Testing and Adjusting

312B-5090B, M325B, W330B and W345B Series II Excavators Air Conditioning and Heating - RENR1976

- Required Tools
- Manifold Gauge Set (Refrigerant) - Install
- Manifold Gauge Set (Refrigerant) - Remove

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

3176C and 3196 Engines for Caterpillar Built Machines - RENR1217

- Fuel Filter (Primary)

365B and 365B Series II Excavators and 365B Series II Front Shovel Machine System Specifications - RENR1964

- Hydraulic Tank and Filter
- Oil Filter (Hydraulic)
- Oil Filter (Return)
- Oil Filter (Return)

FILTERS - Disassembly and Assembly

365B and 365B Series II Excavators Supplement for 3196 Engine - RENR1971

- Fuel Filter (Secondary) and Fuel Filter Base - Remove and Install
- Engine Oil Filter and Oil Filter Base - Remove and Install
- Precleaner - Remove and Install
- Air Cleaner - Remove and Install

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UNDERCARRIAGE

Specifications / Disassembly and Assembly

ADJUSTMENT GP-HYDRAULIC TRACK - Disassembly and Assembly

365B, 365BL and 365BL Series II
Excavators Machine Systems - RENR1970

- Track Adjuster - Remove
- Track Adjuster - Install

FRAME GP-TRACK ROLLER - Disassembly and Assembly

365B, 365BL and 365BL Series II
Excavators Machine Systems - RENR1970

- Track Roller Frame - Remove
- Track Roller Frame - Install

IDLER GP - Specifications

365B and 365B Series II Excavators and 365B Series II Front Shovel Machine System Specifications - RENR1964

- Front Idler
- Front Idler - B
- Recoil Spring

IDLER GP - Disassembly and Assembly

365B, 365BL and 365BL Series II
Excavators Machine Systems - RENR1970

- Front Idler and Recoil Spring - Remove
- Front Idler and Recoil Spring - Install
- Front Idler - Disassemble
- Front Idler - Assemble

ROLLER GP - Specifications

365B and 365B Series II Excavators and 365B Series II Front Shovel Machine System Specifications - RENR1964

- Track Carrier Roller
- Track Roller (Single Flange)
- Track Roller Mounting

ROLLER GP - Disassembly and Assembly

365B, 365BL and 365BL Series II
Excavators Machine Systems - RENR1970

- Track Carrier Roller - Remove
- Track Carrier Roller - Disassemble
- Track Carrier Roller - Assemble
- Track Carrier Roller - Install
- Track Roller - Remove
- Track Roller - Disassemble
- Track Roller - Assemble

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WORK TOOLS

Systems Operation

365B and 365B Series II Excavators Hydraulic System - RENR3851

- Combined Function Hydraulic System
- One-Way Flow Hydraulic System

Testing and Adjusting

365B and 365B Series II Excavators Hydraulic System - RENR5487

- One-Way Hydraulic System - Calibrate
- Two-Way Hydraulic System - Calibrate
- Medium Pressure Hydraulic System - Calibrate

Specifications / Disassembly and Assembly

BUCKET GP - Specifications

365B and 365B Series II Excavators and 365B Series II Front Shovel Machine System Specifications - RENR1964

- Bucket Adjuster
- Bucket Adjuster

BUCKET GP - Disassembly and Assembly

365B, 365BL and 365BL Series II Excavators Machine Systems - RENR1970

- Bucket - Remove
- Bucket - Install

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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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SCHEMATICS

- 365B and 365B II Excavator Electrical System 143-1654-03
- Solid State Magnetic Controller for Material Handlers Electrical System (Interactive) 283-1452-00
- 365B L Excavators Hydraulic System (Attachment) - Single Action (201-9311)
- 365B L Excavators Hydraulic System (Attachment) - Combined Function w/Medium Pressure (210-5923)
- 365B L Excavators and 365B MH Hydraulic System (Attachment) - Medium Pressure (211-4568)
- 3176C and 3196 Engines for Caterpillar Built Machines 138-7462-00
- 365B Series II Excavators Hydraulic - Attachment Ultra High Demolition
- 365B and 365B Series II Excavators Hydraulic System - Attachment (Duplicated Load Signal) Smart Boom with Boom Lowering Control Valve
- 365B HYDRAULIC SYSTEM (ATTACHMENT) MAGNET CIRCUIT
- 365B L Excavators Hydraulic System (Attachment) Combined Function (201-9312)
- 365B & 365B SERIES II EXCAVATORS HYDRAULIC SCHEMATIC

- Fluid Power and Electrical Graphic Symbols

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Systems Operation

3176C and 3196 Engines for Caterpillar Built Machines

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i01014056

Air Inlet and Exhaust System

SMCS - 1050

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1. Press the numeric key on the keypad that corresponds to the "Active Events" menu.
2. Use the arrow keys to choose the "Active Events" option and then press the "OK" key in order to enter the menu.



Illustration 15 g00590602

(1) Module Identifier

(2) Component Identifier

(3) Failure Mode Identifier

(4) Parameter name and the failure condition

Press the "MORE" key in order to view additional information about the event.



Illustration 16 g00590603

(1) The reading of the "service meter" as the event became active.

(2) Duration of the event

(3) Warning category of the event

(4) Parameter name and the failure condition

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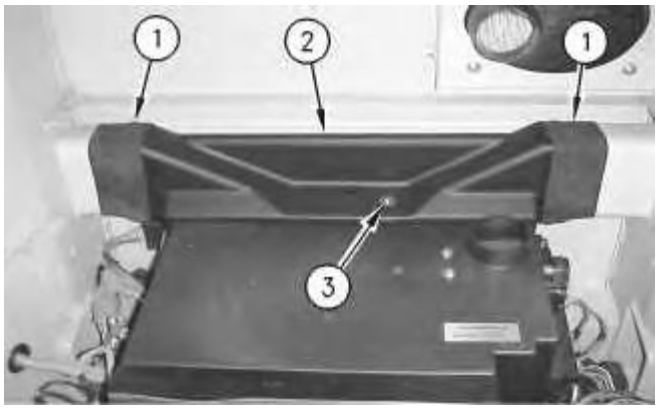


Illustration 4 g00573094

6. Install upper air duct (2). Reattach two rubber gaskets (1). Install the washer and bolt (3) .

End By: Install the storage box. Refer to Disassembly and Assembly, "Storage Box and Covers (Cab) - Remove and Install" in this manual.

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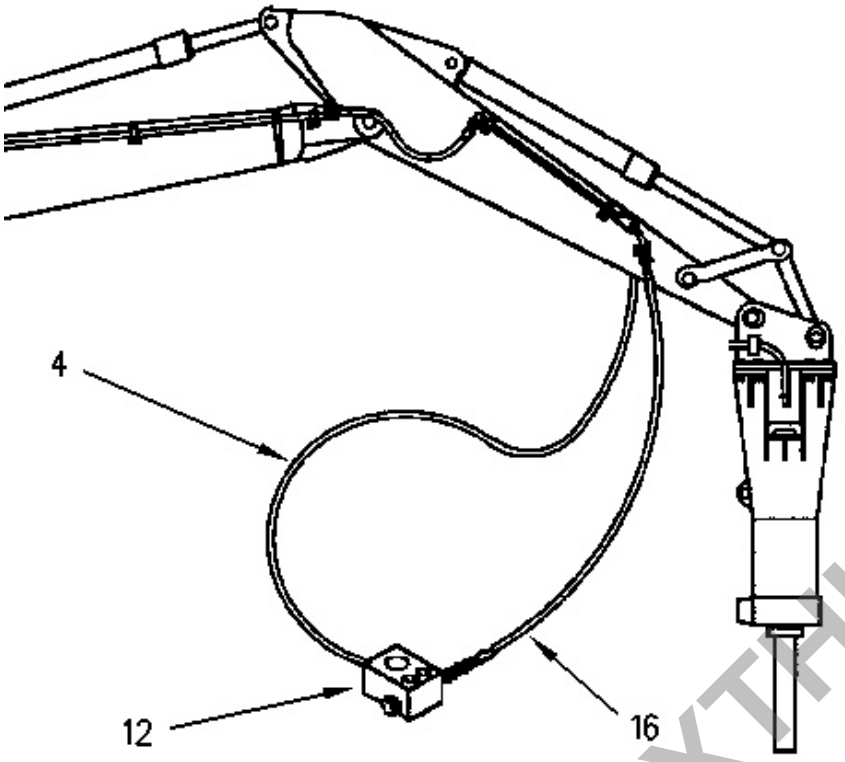


Illustration 8 g00709194

(4) Supply line

(12) Flow meter

(16) Return line

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.

16. Install a flow meter to the auxiliary lines that are located on the end of the stick. Refer to Illustration 8 and Illustration 7.
17. Connect the "IN" port of flow meter (12) to left auxiliary line (4) .
18. Connect the "OUT" port of flow meter (12) to right auxiliary line (16) .

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Media Number -RENR1964-07 Publication Date -01/03/2008 Date Updated -28/03/2008

i03447040

Stick Cylinder Lines

SMCS - 5057-JJ

S/N - 9PZ1-UP

S/N - 9TZ1-UP

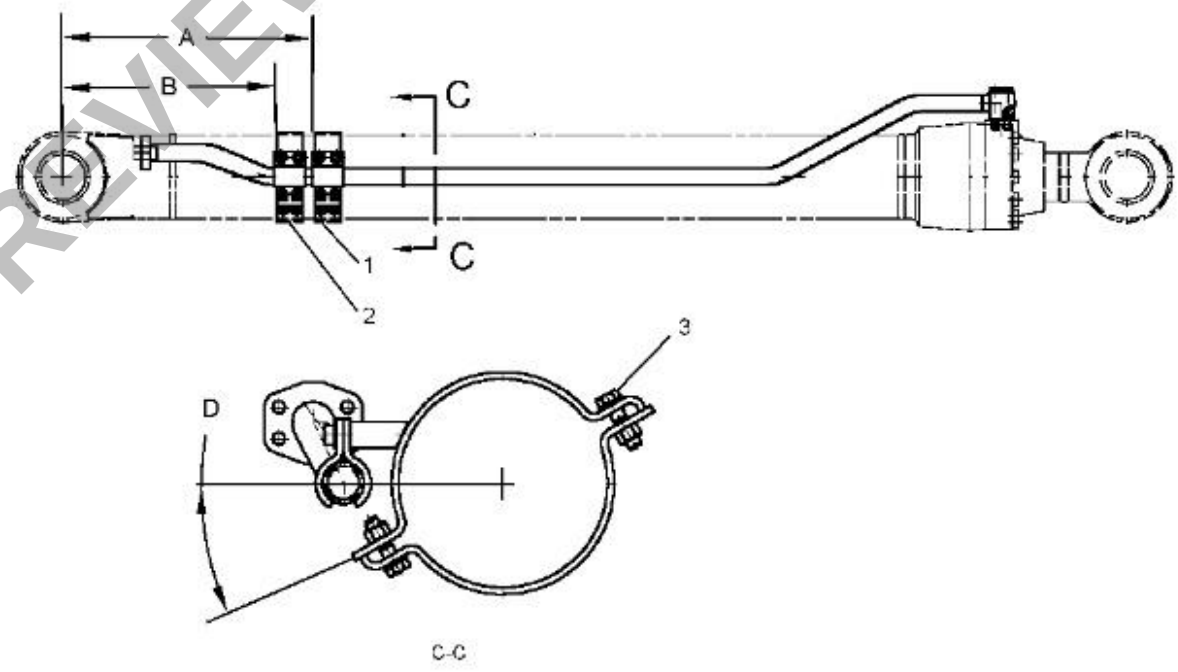
S/N - AGD1-UP

S/N - CFJ1-UP

S/N - CTY1-UP

S/N - DER1-UP

S/N - JMB1-UP



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Disassembly and Assembly
365B, 365BL and 365BL Series II
Excavators Machine Systems
Media Number -RENR1970-09 Publication Date -01/03/2009 Date Updated -02/03/2009

i01074086

Bucket Linkage - Install

SMCS - 6513-012

S/N - 4XZ1-UP

S/N - 9PZ1-UP

S/N - 9TZ1-UP

S/N - AGD1-UP

S/N - BTH1-UP

S/N - CFJ1-UP

S/N - DER1-UP

S/N - JMB1-UP

Installation Procedure

Table 1

Required Tools			
Tool	**Part Number**	**Part Description**	**Qty**
(A)	4C-9485	(1) Pin Driver Cap	1

(1) The cap driver that is shown is for the V-Family. **9U-5342** Pin Driver Cap is for the W-Family linkage.

NOTICE

Make sure the bucket pin bores, the rod linkage bores, the stick pin bore, the pin assemblies, and the O-ring seals are thoroughly clean and free of dirt prior to installation of the bucket linkage group.

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Note: The multimeter will display OL if the pressure switch is not threaded into the air conditioning system.

8T-8639 Low Pressure Switch (NORMALLY OPEN)

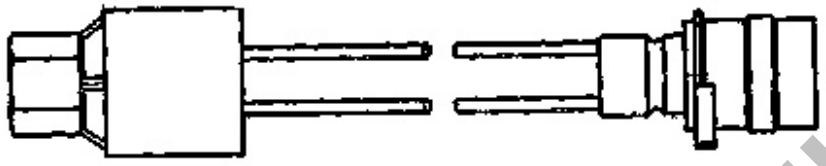


Illustration 3 g00651418

Table 3

Specifications for Pressure Switch	
Actuation Pressure [2]	344 ± 34 kPa (50 ± 5 psi)
Deactuation Pressure [3]	172 ± 21 kPa (25 ± 3 psi)

[2] Close when pressure increases.

[3] Open when pressure decreases.

Use the following procedures in order to test the pressure switch:

1. Disconnect the pressure switch from the machine harness.
2. Connect the **146-4080** Digital Multimeter to the two connector pins. Set the multimeter to the OHMS test mode.
3. Measure the resistance of the pressure switch.
4. If the system pressure is above 344 ± 34 kPa (50 ± 5 psi), the multimeter will display less than 1 ohm.
5. If the resistance that is displayed is a value of OL (high resistance) and the system pressure is not below the acceptable limit, replace the pressure switch.
6. When the pressure switch fails, test the arc suppressor for proper operation.

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