Product: SKID STEER LOADER
Model: 232B SKID STEER LOADER SCH
Configuration: 232B2 Skid Steer Loader SCH02475-UP (MACHINE) POWERED BY 3024C Engine

Systems Operation
3024C and C1.1 Engines for Caterpillar Built Machines
Media Number -SENR5005-03 **Publication Date -01/04/2007** **Date Updated -20/04/2007**

i01649220

Air Inlet and Exhaust System

SMCS - 1050

S/N - BXM1-UP

S/N - C3A1-UP

S/N - C3C1-UP

S/N - C3D1-UP

S/N - C4F1-UP

S/N - C4X1-UP

S/N - C5F1-UP

S/N - CAB1-UP

S/N - DST1-UP

S/N - MJH1-UP

S/N - MTL1-UP

S/N - RLL1-UP

S/N - SCH1-UP

S/N - SLK1-UP

Naturally aspirated engines pull outside air through an air cleaner directly into the inlet manifold. The air flows from the inlet manifold to the engine cylinders. The fuel is mixed with the air in the engine cylinders. After the fuel combustion occurs in the engine cylinder, the exhaust gases flow directly to the outside air through the exhaust manifold and the exhaust system.

Each piston makes four strokes:

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Systems Operation
3024C and C1.1 Engines for Caterpillar Built Machines
Media Number -SENR5005-03 **Publication Date -01/04/2007** **Date Updated -20/04/2007**

i01585099

Basic Engine

SMCS - 1200

S/N - BXM1-UP

S/N - C3A1-UP

S/N - C3C1-UP

S/N - C3D1-UP

S/N - C4F1-UP

S/N - C4X1-UP

S/N - C5F1-UP

S/N - CAB1-UP

S/N - DST1-UP

S/N - MJH1-UP

S/N - MTL1-UP

S/N - RLL1-UP

S/N - SCH1-UP

S/N - SLK1-UP

Cylinder Head and Block

The cylinder head assembly has one inlet valve and one exhaust valve for each cylinder. Each valve has a single valve spring and an oil seal. The valve and the valve spring are held in position by a valve spring cap and two collets. The oil seal fits over the top of the valve guide. The valve seat inserts and the valve guides can be replaced.

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3024C and C1.1 Engines for Caterpillar Built Machines
Media Number -SENR5005-03 **Publication Date -01/04/2007** **Date Updated -20/04/2007**

i01585047

Cooling System

SMCS - 1350

S/N - BXM1-UP

S/N - C3A1-UP

S/N - C3C1-UP

S/N - C3D1-UP

S/N - C4F1-UP

S/N - C4X1-UP

S/N - C5F1-UP

S/N - CAB1-UP

S/N - DST1-UP

S/N - MJH1-UP

S/N - MTL1-UP

S/N - RLL1-UP

S/N - SCH1-UP

S/N - SLK1-UP

The coolant system contains the following components:

- Radiator
- Pressure cap for the radiator
- Fan for the radiator

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Systems Operation

247B, 257B, 267B, 277B and 287B Multi Terrain Loaders and 216B, 226B, 232B, 236B, 242B, 246B, 248B, 252B, 262B and 268B Skid Steer Loaders Auxiliary Hydraulic Electronic Control System

Media Number -RENR6418-01 **Publication Date -01/12/2004** **Date Updated -14/12/2004**

i01994469

General Information

SMCS - 6700-EK2

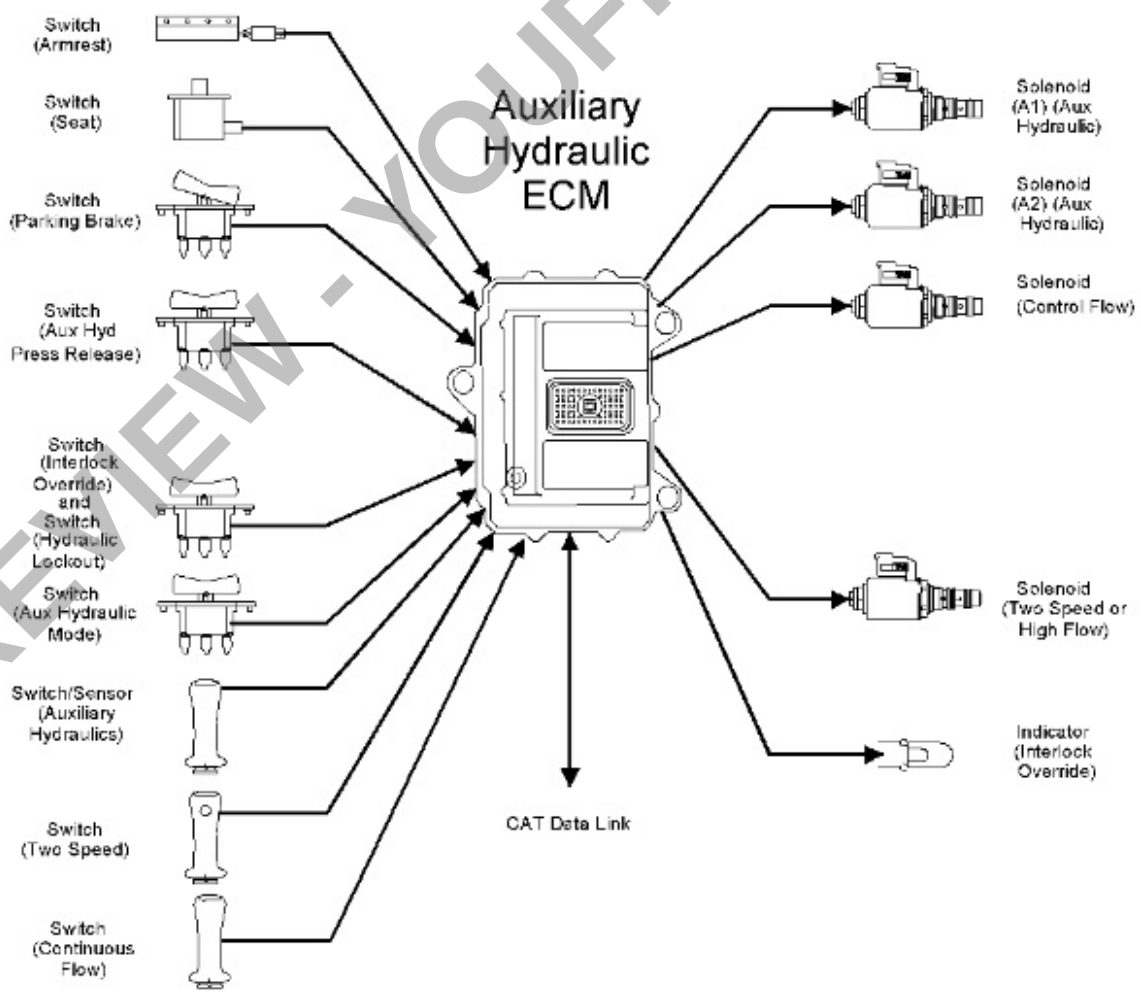

Illustration 1 g01032184

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Model: 232B SKID STEER LOADER SCH
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Systems Operation
EquipmentManager Dealer Administrator Manual
Media Number -KENR6304-08 **Publication Date -01/05/2010** **Date Updated -18/05/2010**

i03319401

General Information

SMCS - 7600; 7606

Use of this Manual

EquipmentManager provides valuable information that allows remote monitoring of either a single machine or a fleet of machines. Customers can perform the following tasks if the customer can provide the location of the machine, Service Meter Unit (SMU), and information about the health of the machine:

- Manage the location and the basic usage of engines and machines.
- Schedule maintenance that is planned and schedule major repairs.
- Manage fault codes or diagnostic codes.
- Detect problems before problems cause a major component failure.
- Increase the availability and the productivity for the machines by avoiding unexpected downtime for repairs.
- Identify the need for training in order to improve the efficiency of the operator.

EquipmentManager is part of Dealer Web site and works with other applications such as PartStore and EquipmentManager. EquipmentManager enables customers to remotely manage fleets. The customer is alerted to only those machines that need immediate attention.

The "EquipmentManager Dealer Administrator Manual" includes the following information:

- Setting up Product Link Modules (PLM)
- Registering PLM
- Setting up and maintaining the accounts of the customer
- Customizing EquipmentManager for optimum use
- Managing EquipmentManager functions

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Product: SKID STEER LOADER
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Configuration: 232B2 Skid Steer Loader SCH02475-UP (MACHINE) POWERED BY 3024C Engine

Systems Operation
Machine Security System
Media Number -RENR2462-17 **Publication Date -01/05/2013** **Date Updated -03/05/2013**

i04008039

System Overview

SMCS - 7631

The machine security system (MSS) is designed to restrict operation of a machine. A list of the authorized electronic keys for a machine is contained in the electronic control module (ECM) for the MSS. Only a Cat® electronic key that is authorized can disarm the MSS. Disarming is accomplished by assigning the ID of an electronic key to the ECM for the MSS. The Cat® Electronic Technician (Cat® ET) service tool must be used to program the ECM with the authorized keys.

When the exciter coil is used with MSS, the electronic key is placed in the keyswitch of the machine and turned to the ON position. The ECM will read the unique ID that is stored in the key. The ECM will then compare this ID to the list of authorized keys.

If the ID of the key that is read matches an authorized key, the following actions will occur:

- The status indicator will turn a green color.
- The MSS will disarm allowing the machine to operate.

If the ID of the key that is read does not match the list in the ECM, the following actions will occur:

- The status indicator will become a red color.
- The MSS remains in the armed state.
- The machine will remain disabled.

Note: Ensure that you have only one electronic key near the exciter coil when the MSS reads the key. If more than one electronic key is near the exciter coil, the MSS ECM will not read the key and the machine will not start.

The machine security system can be installed in a combination of ways:

1. **Electronic Control**

   The MSS disables the machine by controlling up to two devices (relays) that are used to power a critical machine system.

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Testing and Adjusting
Machine Security System
Media Number -RENR2462-17 **Publication Date -01/05/2013** **Date Updated -03/05/2013**

i04008550

Electrical Connector - Inspect

SMCS - 7553-040-WW

ReferenceSpecial Instruction, SEHS9615, "Servicing DT Connectors".

ReferenceSpecial Instruction, REHS0148, "Listing Of Deutsch Connector Components"

ReferenceSpecial Instruction, SEHS9065, "Use Of CE Connector Tools".

ReferenceService Magazine, SEPD034227 January 97, "Field Repair Of Single Wire Breaks In Harnesses (Sealed Splice)".

ReferenceService Magazine, SEPD037128 July 97, "Protection Of Unsealed Electrical Terminations For Machines In Corrosive Applications".

ReferenceService Magazine, SEPD047324 May 99, "New DT Connector Plugs With Improved Seal Retention".

ReferenceService Magazine, SEPD054509 October 00, "Dielectric Grease Should Not Be Used In Electrical Connectors".

ReferencePocket Guide, SEBD0402, "Guidelines For Routing And Installing Wire Harness Assemblies".

This information will assist in detecting problems with connectors and with wiring. If a problem is found, correct the condition and verify that the problem is resolved.

Disconnecting and reconnecting connectors sometimes resolve intermittent electrical problems. Check for diagnostic codes immediately before disconnecting a connector. Also check for diagnostic codes after reconnecting the connector. If the status of a diagnostic code is changed due to disconnecting and reconnecting a connector, there are several possible reasons. The likely reasons are loose terminals, improperly crimped terminals, moisture, corrosion, and inadequate mating of a connection.

Important Safety Information

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Systems Operation
3024C and C1.1 Engines for Caterpillar Built Machines
Media Number -SENR5005-03 **Publication Date -01/04/2007** **Date Updated -20/04/2007**

i02735968

Engine Design

SMCS - 1000

S/N - BXM1-UP

S/N - C3A1-UP

S/N - C3C1-UP

S/N - C3D1-UP

S/N - C4F1-UP

S/N - C4X1-UP

S/N - C5F1-UP

S/N - CAB1-UP

S/N - MJH1-UP

S/N - MTL1-UP

S/N - RLL1-UP

S/N - SCH1-UP

S/N - SLK1-UP

3024C Engine

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Specifications
216B, 226B, 232B and 242B Skid Steer Loaders Machine Systems
Media Number -RENR4895-04 **Publication Date -01/12/2007** **Date Updated -18/12/2007**

i02532174

Machine Frame and Mounting

SMCS - 6119-MT; 7050-LH; 7050-MT; 7050-UZ; 7050; 7481-UN

S/N - BXM1-4224

S/N - SCH1-2474

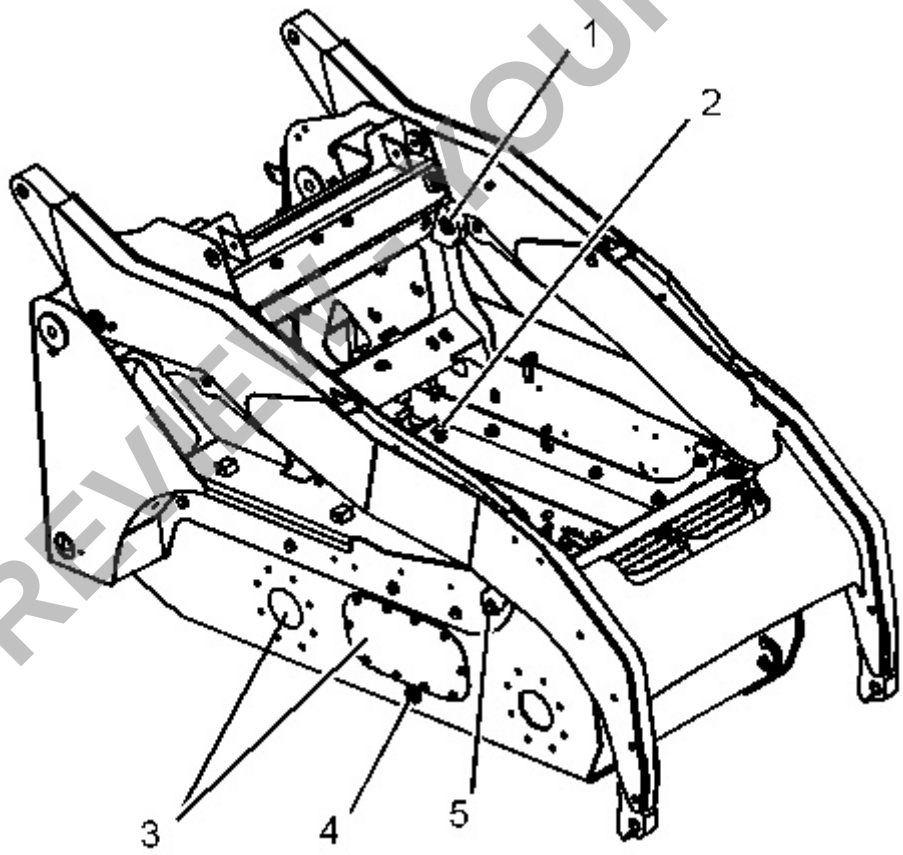

Illustration 1 g01266807

(1) Diameter of the bearing ... 38.100 + 0.000 - 0.013 mm (1.5000 + 0 - 0.0005 inch)

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Systems Operation
216B, 226B, 232B and 242B Skid Steer Loaders Machine Systems

Media Number -RENR4896-03 **Publication Date -01/12/2007** **Date Updated -18/12/2007**

i02637314

Governor Control

SMCS - 1265; 1276

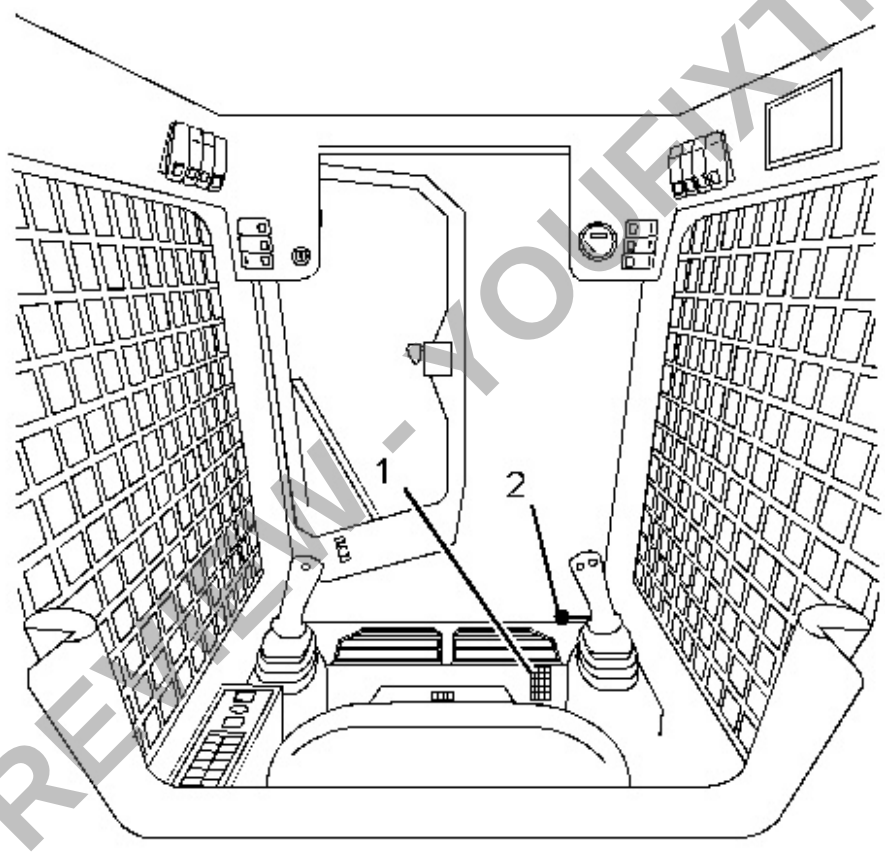

Illustration 1 g01322386

(1) Governor Pedal Group

(2) Governor Lever Group

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Product: SKID STEER LOADER
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Media Number -RENR4896-03 **Publication Date -01/12/2007** **Date Updated -18/12/2007**

i02636577

General Information

SMCS - 5050

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Product: SKID STEER LOADER
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Disassembly and Assembly
216B, 216B2, 226B, 226B2, 232B, 232B2, 242B and 242B2 Skid Steer Loaders Machine Systems
Media Number -RENR4898-03 **Publication Date -01/04/2010** **Date Updated -15/04/2010**

i02070380

Lift Arms - Remove

SMCS - 6119-011

S/N - BXM1-UP

S/N - MJH1-UP

S/N - RLL1-UP

S/N - SCH1-UP

Removal Procedure

Table 1

Required Tools			
Tool	**Part Number**	**Part Name**	**Qty**
A	1P-2860	Retaining Ring Pliers	1
B	138-7575	Link Bracket	2
C	140-7742	Sleeve	2

Start By:

A. Release the hydraulic system pressure. Refer to Disassembly and Assembly, "Hydraulic System Pressure - Release".
B. Remove the quick coupler. Refer to Disassembly and Assembly, "Quick Coupler - Remove and Install".
C. Remove the tilt cylinder. Refer to Disassembly and Assembly, "Tilt Cylinder - Remove and Install".

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Media Number -SENR5005-03 **Publication Date -01/04/2007** **Date Updated -20/04/2007**

i02050178

Lubrication System

SMCS - 1300

S/N - BXM1-UP

S/N - C3A1-UP

S/N - C3C1-UP

S/N - C3D1-UP

S/N - C4F1-UP

S/N - C4X1-UP

S/N - C5F1-UP

S/N - CAB1-UP

S/N - DST1-UP

S/N - MJH1-UP

S/N - MTL1-UP

S/N - RLL1-UP

S/N - SCH1-UP

S/N - SLK1-UP

The lubrication system contains the following components:

- Oil pump
- Engine oil relief valve
- Oil filter

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Product: SKID STEER LOADER
Model: 232B SKID STEER LOADER SCH
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Testing and Adjusting
All Products Air Conditioning and Heating R134a for All Caterpillar Machines
Media Number -SENR5664-22 **Publication Date -01/08/2012** **Date Updated -13/08/2012**

i03607159

Heating and Air Conditioning Service Publications

SMCS - 7000; 7320

Table 1

Publication Number	Products	Title of Publication
Data Sheets		
PEHJ0092	All Products	"Cat Cabin Air Filters"
PEHJ0148	All Products	"Cat Air Conditioning Kits"
Information Release Memo		
PELJ0374	All Products	"Air Conditioning Kits for Caterpillar Equipment"
PELM0992	Integrated Toolcarrier Wheel Loader Motor Grader Track-Type Tractor	"CAT Field Installed Air Conditioning Kits (R134a)"
Special Instructions		
REHS1692	D10R, D11R	"Procedure to Replace the Water Valve for the Climate Control System"
REHS1715	Articulated Trucks	"Procedure to Replace the Control Assembly and Water Valve Assembly in the Air Conditioner Group"
REHS1716	Wheel Tractor-Scrapers	"Procedure to Replace the Water Valve for the Climate Control System"
REHS1717	Wheel Dozer Wheel Loader	"Installation Procedure for the New Water Valve for the Climate Control System"
REHS1798	Multi Terrain Loader	"Installing the 233-5870 Installation Arrangement (Air Conditioner Conversion)(Kit)"

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Media Number -RENR4896-03 **Publication Date -01/12/2007** **Date Updated -18/12/2007**

i02093443

Pilot Valve (Joystick)

SMCS - 5059; 5705

There are two pilot valves on the machine. The two pilot valves get hydraulic oil from separate circuits. Hydraulic oil for both circuits comes from the gear pump.

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i02093443

Pilot Valve (Joystick)

SMCS - 5059; 5705

There are two pilot valves on the machine. The two pilot valves get hydraulic oil from separate circuits. Hydraulic oil for both circuits comes from the gear pump.

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i02991866

Cab Pressurization and Filtration System

SMCS - 7320; 7342

Caterpillar machines with an enclosed cab area need to provide adequate air flow to the operator inside the cab area so that a standard air pressure is met. Maintaining a proper air pressure level is accomplished by ensuring that the appropriate seals are used. When the appropriate seals are correctly installed, the cab will be pressurized by the ventilation system. See Troubleshooting, SENR5664, "Troubleshooting Cab Pressurization and Filtration System" for tips on resolving problems.

Maintaining the proper pressurization level in the cab area is important to the health of the operator because changes to the air pressure may lead to problems with breathing. Low pressure can cause dust to enter the cab and the Heating Ventilation Air Conditioning (HVAC) system, which can lead to premature system deterioration. Low pressure is often caused by improper sealing of the cab. Poor sealing of the cab requires an increase in the fresh air flow to maintain pressurization. The increase in fresh air flow will lead to a lower air conditioning and heater performance. The increase in fresh air flow will also lead to increased intervals in filter service. Additional noise that is entering the cab can also result from poor sealing of the cab.

Cab sealing objectives for the operator cab environment are for the cab to pressurize to a minimum of 50 Pa (0.2 inch of H_2O) with no more than 76 m^3/hr (45 cfm) () of fresh air flow. The minimum cab fresh air flow while the ventilation system is operating on any fan speed is 43 m^3/hr (25 cfm). This objective satisfies the requirements for fresh air flow from SAE J1503 and ISO 10263-4. In HVAC systems with a mode door that controls the balance of fresh air and recirculation air, the control shall be set to minimum fresh air flow while measuring cab pressure.

The air flow of a HVAC system is used to pressurize a cab as the air flow passes through different components. First, outside air is drawn into the HVAC compartment after being filtered for dust particles. Air is drawn in with the help of a blower fan. The blower fan pulls air or pushes air across the heater and/or the evaporator coil. The air flow is then directed into the ventilation ducts of the system. The air flow travels into the environment of the cab through the directional louvers. Finally, the air inside the cab area returns to the HVAC system through the recirculation filter.

Some ventilation systems can be enhanced by using different options. One option that is available for a wide variety of Caterpillar machines is the inclusion of a powered precleaner unit. As part of the pressurized system of the cab, a precleaner removes additional dirt/dust from the fresh air flow that is entering the cab. This provides extended life for the filter to the fresh air filter. These precleaners are coupled with higher efficiency fresh air filters in order to prevent finer particles of

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Specifications

216B, 226B, 232B and 242B Skid Steer Loaders Machine Systems

Media Number -RENR4895-04 **Publication Date -01/12/2007** **Date Updated -18/12/2007**

i03039940

Coupler Cylinder

SMCS - 5133

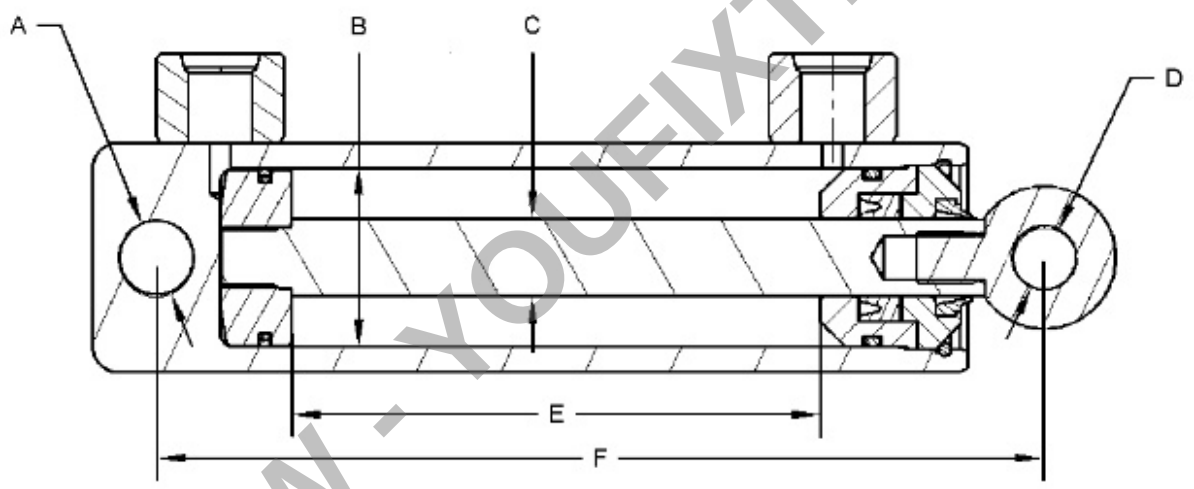

Illustration 1 g01543134

Note: Before assembly, all bores must be free of paint. Apply **5P-0960** Grease Cartridge to all the bores.

(A) Bore of the cap end ... 14.50 to 14.60 mm (0.571 to 0.575 inch)

(B) Bore of the cylinder assembly ... 35 mm (1.4 inch)

(C) Outside diameter of the rod assembly ... 15 mm (0.6 inch)

(D) Bore of the rod eye ... 12.50 to 12.60 mm (0.492 to 0.496 inch)

(E) Length of stroke ... 103.5 ± 1.5 mm (4.07 ± 0.06 inch)

(F) Closed length ... 174.0 ± 1.2 mm (6.85 ± 0.05 inch)

Extended length ... 277.5 ± 2.5 mm (10.93 ± 0.10 inch)

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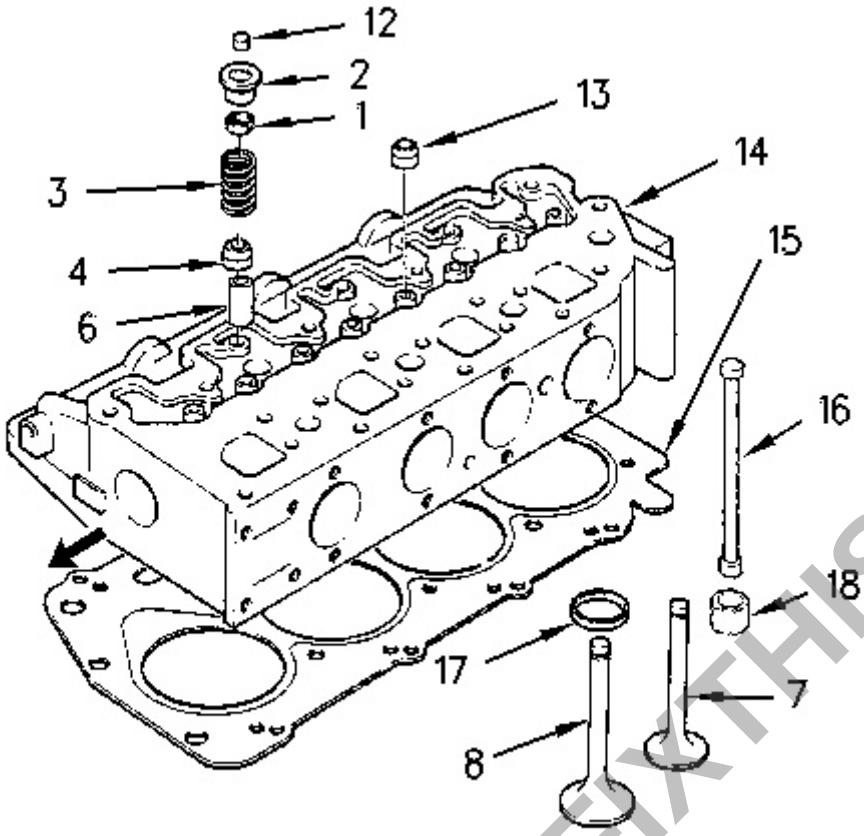

Illustration 2 g00458090

Cylinder head and valves (typical example)

(1) Collet

(2) Valve spring retainer

(3) Valve spring

(4) Valve guide seal

(5) Recess for valve spring

(6) Valve guide

(7) Exhaust valve

(8) Inlet valve

(9) Valve face angle

(10) Head of exhaust valve

(11) Head of inlet valve

(12) Cap

(13) Valve guide seal

(14) Cylinder head

(15) Cylinder head gasket

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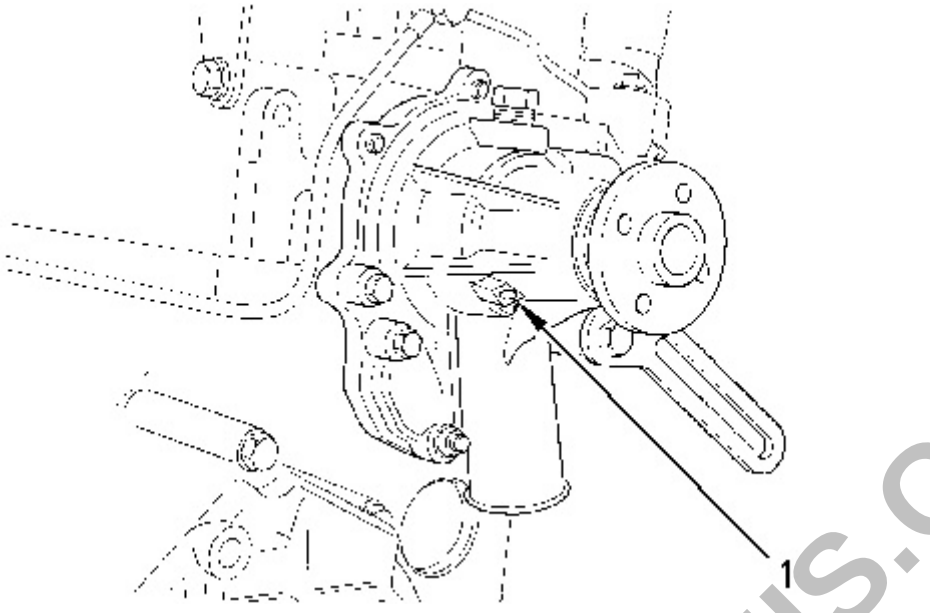

Illustration 1 g00825983

1. Start the engine. Inspect the water pump for excessive leaks at vent hole (1) .

   Note: A small amount of coolant leakage across the surface of the seal for the jacket water pump is normal. This leakage is required to provide lubrication for this type of seal. A hole is provided in the water pump housing in order to allow this coolant/seal lubricant to drain from the water pump housing. Intermittent leakage of small amounts of coolant from this hole is not an indication of water pump seal failure.

2. Inspect the water pump shaft for unusual noise, excessive looseness and/or vibration of the bearings.

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Note: The information of the location will be displayed per user preference. The display for the "Nearest City" will show the location of a machine relative to public landmarks or city centers. The location can also be displayed with the latitude and the longitude. These coordinates can be entered into routing software in order to provide driving directions.

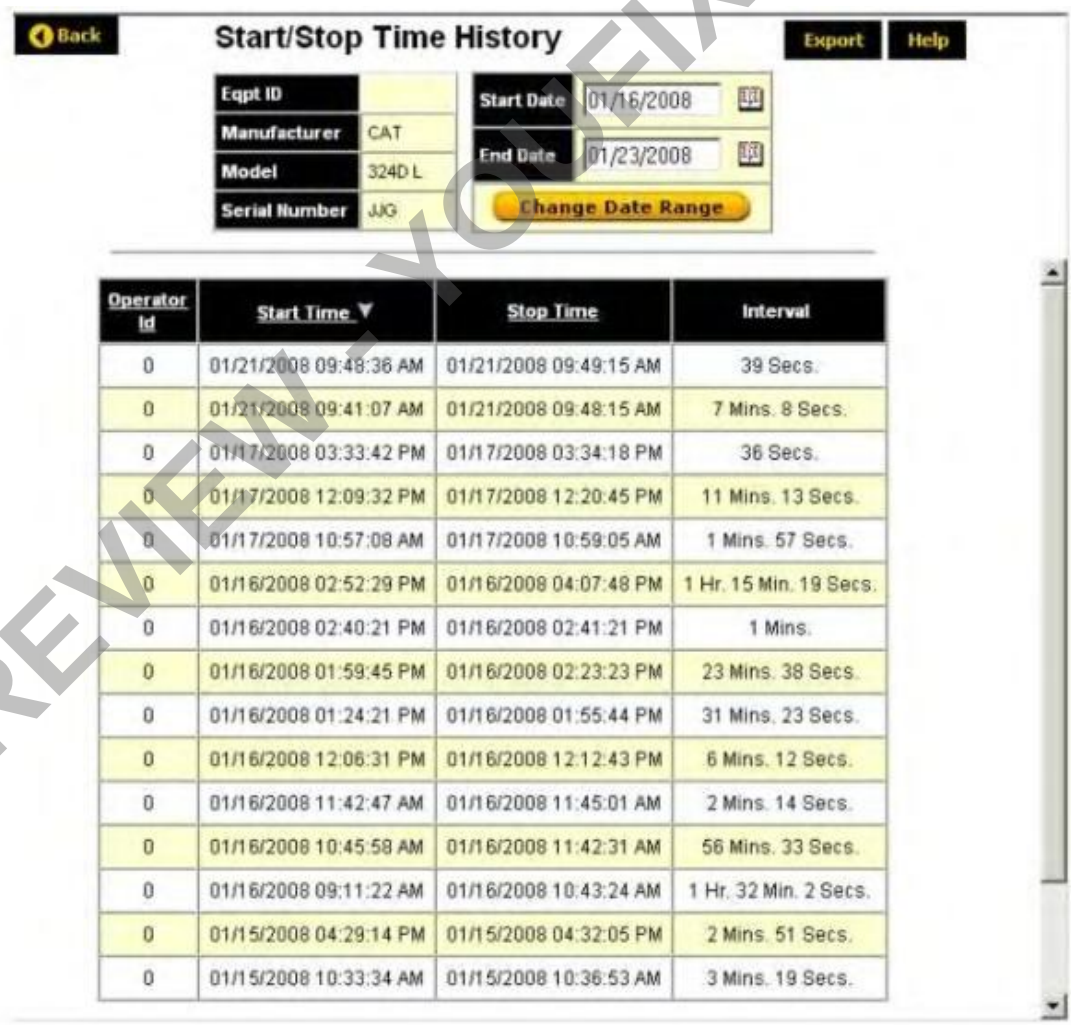
The other way to create the map of the location is from the "Location History" screen.

1. In order to view the "Location History" for a machine, select the location of a machine from the "Service Meter (hours)" column on the "Location and Service Meters" screen. Refer to Illustration 5. The "Location History" screen will be displayed. Refer to Illustration 8.

2. Click the "Map the latest location" button. The "Equipment Location Map" screen will be displayed. Refer to Illustration 9.

Note: Click "Map the latest location" button in order to start the EquipmentManager software for maps that is being used currently. Click "Map the latest location 2" in order to start the new software that is being considered by Caterpillar as a replacement to option 1. Click on the "here" link in order to send your comments to Caterpillar about the mapping software.

"Start/Stop Time History"



Operator Id	Start Time	Stop Time	Interval
0	01/21/2008 09:48:36 AM	01/21/2008 09:49:15 AM	39 Secs.
0	01/21/2008 09:41:07 AM	01/21/2008 09:48:15 AM	7 Mins. 8 Secs.
0	01/17/2008 03:33:42 PM	01/17/2008 03:34:18 PM	36 Secs.
0	01/17/2008 12:09:32 PM	01/17/2008 12:20:45 PM	11 Mins. 13 Secs.
0	01/17/2008 10:57:08 AM	01/17/2008 10:59:05 AM	1 Mins. 57 Secs.
0	01/16/2008 02:52:29 PM	01/16/2008 04:07:48 PM	1 Hr. 15 Min. 19 Secs.
0	01/16/2008 02:40:21 PM	01/16/2008 02:41:21 PM	1 Mins.
0	01/16/2008 01:59:45 PM	01/16/2008 02:23:23 PM	23 Mins. 38 Secs.
0	01/16/2008 01:24:21 PM	01/16/2008 01:55:44 PM	31 Mins. 23 Secs.
0	01/16/2008 12:06:31 PM	01/16/2008 12:12:43 PM	6 Mins. 12 Secs.
0	01/16/2008 11:42:47 AM	01/16/2008 11:45:01 AM	2 Mins. 14 Secs.
0	01/16/2008 10:45:58 AM	01/16/2008 11:42:31 AM	56 Mins. 33 Secs.
0	01/16/2008 09:11:22 AM	01/16/2008 10:43:24 AM	1 Hr. 32 Min. 2 Secs.
0	01/15/2008 04:29:14 PM	01/15/2008 04:32:05 PM	2 Mins. 51 Secs.
0	01/15/2008 10:33:34 AM	01/15/2008 10:36:53 AM	3 Mins. 19 Secs.

Illustration 10 g01458443

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a short at one of the harness connectors that was disconnected and reconnected. Resume normal machine operation.**STOP**

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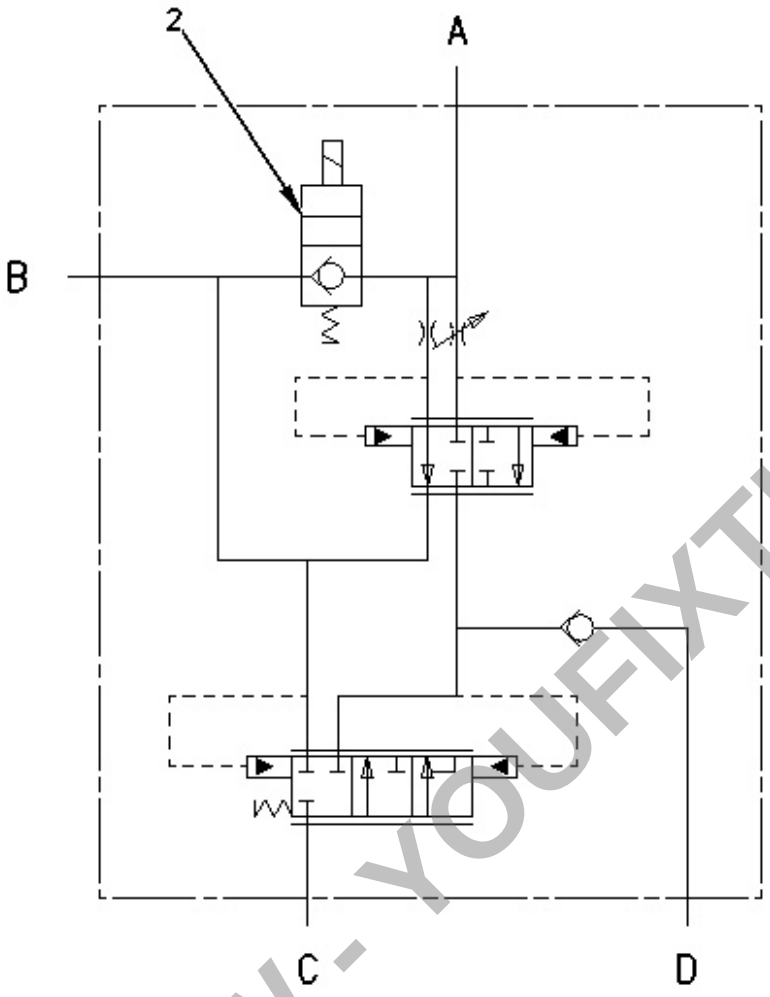

Illustration 2 g00551233

(2) Solenoid valve.

(A) Oil from the rod end of the lift cylinders

(B) Oil for the lift control valve

(C) Oil for the rod end of the tilt cylinders

(D) Oil for the head end of the tilt cylinders

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Previous Screen

Product: SKID STEER LOADER
Model: 232B SKID STEER LOADER SCH
Configuration: 232B2 Skid Steer Loader SCH02475-UP (MACHINE) POWERED BY 3024C Engine

Disassembly and Assembly
216B, 216B2, 226B, 226B2, 232B, 232B2, 242B and 242B2 Skid Steer Loaders Machine Systems
Media Number -RENR4898-03 **Publication Date -01/04/2010** **Date Updated -15/04/2010**

i02070807

Lift Arms - Install

SMCS - 6119-012

S/N - BXM1-UP

S/N - MJH1-UP

S/N - RLL1-UP

S/N - SCH1-UP

Installation Procedure

Table 1

Required Tools			
Tool	**Part Number**	**Part Name**	**Qty**
A	1P-2860	Retaining Ring Pliers	1
B	138-7575	Link Bracket	2
C	140-7742	Sleeve	2

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Previous Screen

Product: SKID STEER LOADER
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Disassembly and Assembly

All Products Air Conditioning and Heating R134a for All Caterpillar Machines

Media Number -SENR5664-22 **Publication Date -01/08/2012** **Date Updated -13/08/2012**

i02998490

Refrigerant Receiver-Dryer - Remove and Install

SMCS - 7322-010

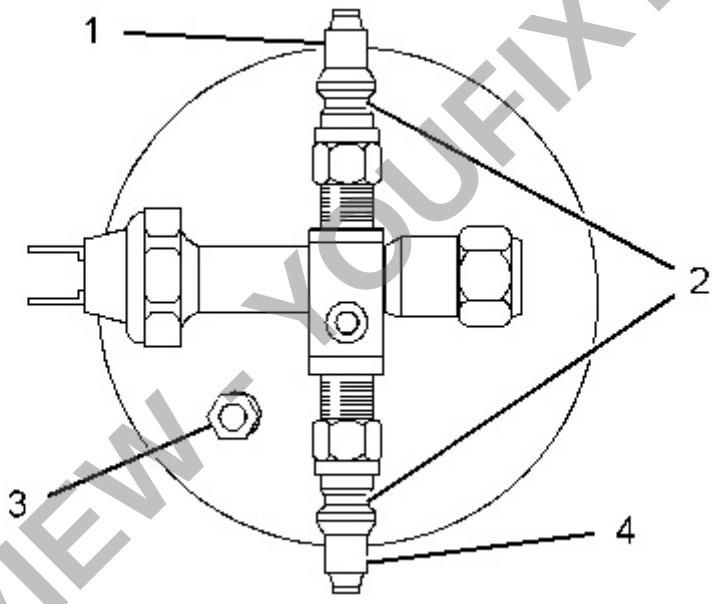

Illustration 1 g01257459

Top View of Receiver-Dryer

(1) Inlet

(2) Quick Disconnect Fittings

(3) Moisture Indicator

(4) Outlet

NOTICE

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