

1

Prefix or Serial Number

NAVIGATE

2

Part Number or Keyword

SEARCH

Announcements

External Links

Coming Soon

Welcome to Service Information System (SIS) 2.0

Release 55 is now live! This [short video](#) demonstrates the new features included.

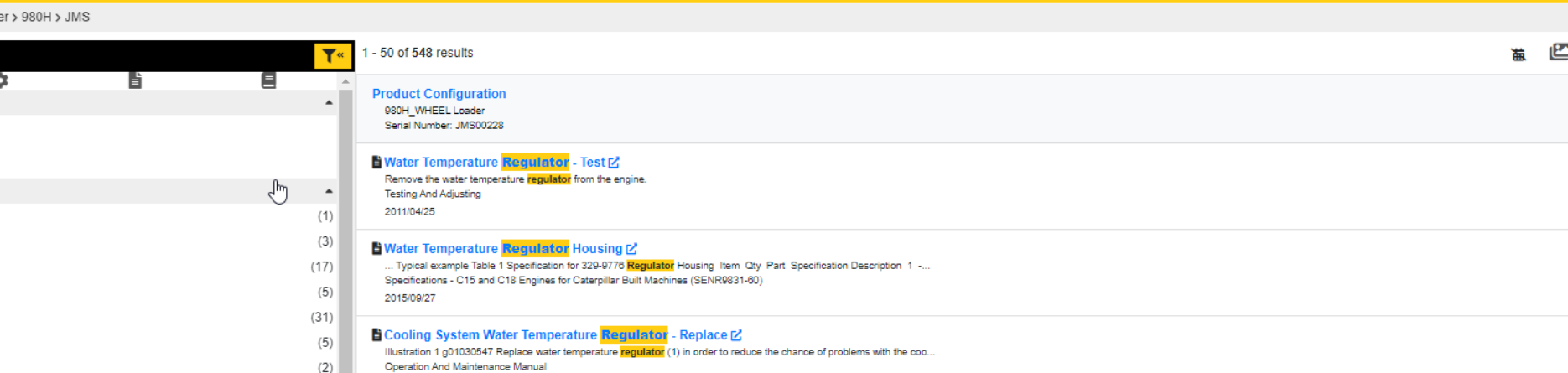
Not sure where to start? Click [here](#) for the SIS 2.0 Quick Start Guide, Training Videos and FAQs.

Want to learn more? Click [here](#) for the SIS 2.0 quarterly webinar schedule.

IMPORTANT PRINTING INFORMATION: One time update needed to display content when printing.

• Chrome and/or Edge users: settings>print>more settings>background graphics - ensure that the box is checked

• Firefox users: "hamburger" (3 bar menu button)>print>page set up>print background - ensure that the box is checked



The screenshot shows the CAT SIS 2.0 web application interface. At the top, there is a navigation bar with the CAT logo, a search input field containing 'jms228', and another search input field containing 'regulator'. A search button is located to the right of the 'regulator' input. Below the navigation bar, the breadcrumb trail reads 'Wheel-Type Loader > 980H > JMS'. The left sidebar contains a 'Filters' section with expandable categories: 'Date' (All, Last 7 Days, Custom Range), 'Information Type' (Applied Failure Analysis, Bench Test Procedures, Contamination Control Guidelines, Custom Service Information, Disassembly And Assembly, Engine News, Information Release Memo, Operation And Maintenance Manual, Parts Identification, Reuse And Salvage Guidelines), 'Systems' (Air Inlet And Exhaust System, Air System, Asphalt Spray System, Basic Engine, Braking System, Combine Header, Cooling System, Differential Steering System, Electrical And Starting System, Electrical System), and 'SMCS Code' (0100 - Fundamental Knowledge & Theory, 0113 - Fluids & Hydraulics, 0353 - Safety, 0355 - Transportation & Storage, 0372 - Inspection, Diagnostic & Performance Test Information). The main content area displays '1 - 50 of 548 results'. The first few results are: 'Product Configuration' (980H_WHEEL Loader, Serial Number: JMS00228), 'Water Temperature Regulator - Test' (Remove the water temperature regulator from the engine. Testing And Adjusting 2011/04/25), 'Water Temperature Regulator Housing' (... Typical example Table 1 Specification for 329-9776 Regulator Housing. Item Qty Part Specification Description 1 - ... Specifications - C15 and C18 Engines for Caterpillar Built Machines (SENR9831-90) 2015/09/27), 'Cooling System Water Temperature Regulator - Replace' (Illustration 1 g01030547 Replace water temperature regulator (1) in order to reduce the chance of problems with the cooling system. Operation And Maintenance Manual 2004/11/01), 'Alternator And Regulator' (Specifications 2015/09/27), 'Water Temperature Regulator Housing' (...ation 1 g02036276 Table 1 Specification for 137-7331 Regulator Housing. Item Qty Part Specification Description 1 - ... Specifications - C15 and C18 Engines for Caterpillar Built Machines (SENR9831-90) 2011/07/13), 'Water Temperature Regulator Housing' (...he lip type seal (2) is installed in the water temperature regulator housing (1). Specifications 2015/09/27), 'Water Temperature Regulator Housing' (Specifications - C15 and C18 Engines for Caterpillar Built Machines (SENR9831-90) 2011/10/23), and 'Alternator And Regulator' (... 4 ± 1.0 N·m (38.9 ± 8.9 lb in). 4 1 185-2848 Voltage Regulator As Voltage setting requires no adjustment. Specifications 2015/09/27). The last result is a kit: '444-0532 Kit-Oil Cooler & Lines Gasket' (444-0532 KIT-OIL COOLER & LINES GASKET S/N TXG1-UP; JMS1-UP; LHX1-UP CONTAINS THE GASKETS & SEALS TO ASSEMBLE & REINSTALL THE OIL COOLER(S), OIL FILTER BASE & ATTACHING LINES PART OF 445-9257 KIT-ENGINE OVERHAUL FIELD REPLACEMENT FOR 346-7524 KIT-GASKET, 305-8220 KIT-GASKET FOR USE WITH 225-0992, 280-9912, 313-5819, 235-4692, 303-1581).

CAT

SIS 2.0

jms228

regulator

🔍

Wheel-Type: Loader > 980H > JMS

Parts

Regulator Service

jms228

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All Configurations

Systems And Components

Braking System

Electrical And Starting System

Engine And Related Systems

Air Inlet And Exhaust System

Basic Engine

Cooling System

Cooler GP

Cooling GP

Fan GP

Lines GP-Turbocharger Water

Lines GP-Water

214-9045

Cooler & Lines GP-Engine, Power Train Coolers

LHX1-99999; TXG1-99999

263-9091

Cooler & Lines GP-Engine, Power Train Coolers

LHX1-1524

263-9091

Cooler & Lines GP-Engine, Power Train Coolers

LHX1525-3598

233-0699 (Type 1)

Lines GP-Water -Radiator

233-0699 (Type 2)

Lines GP-Water -Radiator

Pump GP-Water

Radiator GP

Tank GP-Coolant

Tank GP-Expansion

Engine Arrangement

Fuel System

Lubrication System

Frame And Body

Hydraulic System

Implements

Machine Arrangement

Operator Station

Power Train

Entire Group

SMCS Code 1375 - Torque Converter/transmiss.

214-9045 COOLER & LINES GP-ENGINE, POWER TRAIN COOLERS

S/N TXG1-UP; LHX1-UP

PART OF 225-0992, 235-4692, 280-9912, 303-1581, 303-1582, 303-1583, 303-1584, 303-1585, 303-1586, 303-1587, 303-1588, 303-1589, 303-1590, 303-1591, 303-1592, 303-1593, 303-1594, 303-1595, 303-1596, 303-1597, 303-1598, 303-1599, 303-1600, 303-1601, 303-1602, 303-1603, 303-1604, 303-1605, 303-1606, 303-1607, 303-1608, 303-1609, 303-1610, 303-1611, 303-1612, 303-1613, 303-1614, 303-1615, 303-1616, 303-1617, 303-1618, 303-1619, 303-1620, 303-1621, 303-1622, 303-1623, 303-1624, 303-1625, 303-1626, 303-1627, 303-1628, 303-1629, 303-1630, 303-1631, 303-1632, 303-1633, 303-1634, 303-1635, 303-1636, 303-1637, 303-1638, 303-1639, 303-1640, 303-1641, 303-1642, 303-1643, 303-1644, 303-1645, 303-1646, 303-1647, 303-1648, 303-1649, 303-1650, 303-1651, 303-1652, 303-1653, 303-1654, 303-1655, 303-1656, 303-1657, 303-1658, 303-1659, 303-1660, 303-1661, 303-1662, 303-1663, 303-1664, 303-1665, 303-1666, 303-1667, 303-1668, 303-1669, 303-1670, 303-1671, 303-1672, 303-1673, 303-1674, 303-1675, 303-1676, 303-1677, 303-1678, 303-1679, 303-1680, 303-1681, 303-1682, 303-1683, 303-1684, 303-1685, 303-1686, 303-1687, 303-1688, 303-1689, 303-1690, 303-1691, 303-1692, 303-1693, 303-1694, 303-1695, 303-1696, 303-1697, 303-1698, 303-1699, 303-1700, 303-1701, 303-1702, 303-1703, 303-1704, 303-1705, 303-1706, 303-1707, 303-1708, 303-1709, 303-1710, 303-1711, 303-1712, 303-1713, 303-1714, 303-1715, 303-1716, 303-1717, 303-1718, 303-1719, 303-1720, 303-1721, 303-1722, 303-1723, 303-1724, 303-1725, 303-1726, 303-1727, 303-1728, 303-1729, 303-1730, 303-1731, 303-1732, 303-1733, 303-1734, 303-1735, 303-1736, 303-1737, 303-1738, 303-1739, 303-1740, 303-1741, 303-1742, 303-1743, 303-1744, 303-1745, 303-1746, 303-1747, 303-1748, 303-1749, 303-1750, 303-1751, 303-1752, 303-1753, 303-1754, 303-1755, 303-1756, 303-1757, 303-1758, 303-1759, 303-1760, 303-1761, 303-1762, 303-1763, 303-1764, 303-1765, 303-1766, 303-1767, 303-1768, 303-1769, 303-1770, 303-1771, 303-1772, 303-1773, 303-1774, 303-1775, 303-1776, 303-1777, 303-1778, 303-1779, 303-1780, 303-1781, 303-1782, 303-1783, 303-1784, 303-1785, 303-1786, 303-1787, 303-1788, 303-1789, 303-1790, 303-1791, 303-1792, 303-1793, 303-1794, 303-1795, 303-1796, 303-1797, 303-1798, 303-1799, 303-1800, 303-1801, 303-1802, 303-1803, 303-1804, 303-1805, 303-1806, 303-1807, 303-1808, 303-1809, 303-1810, 303-1811, 303-1812, 303-1813, 303-1814, 303-1815, 303-1816, 303-1817, 303-1818, 303-1819, 303-1820, 303-1821, 303-1822, 303-1823, 303-1824, 303-1825, 303-1826, 303-1827, 303-1828, 303-1829, 303-1830, 303-1831, 303-1832, 303-1833, 303-1834, 303-1835, 303-1836, 303-1837, 303-1838, 303-1839, 303-1840, 303-1841, 303-1842, 303-1843, 303-1844, 303-1845, 303-1846, 303-1847, 303-1848, 303-1849, 303-1850, 303-1851, 303-1852, 303-1853, 303-1854, 303-1855, 303-1856, 303-1857, 303-1858, 303-1859, 303-1860, 303-1861, 303-1862, 303-1863, 303-1864, 303-1865, 303-1866, 303-1867, 303-1868, 303-1869, 303-1870, 303-1871, 303-1872

CAT

SIS 2.0

14

regulator

Q

Wheel-Type Loader > Wheel Loader > 980H > JMS

PartsRepairService

jms228

980H (JMS 1-99999)

980H (JMS 1-512)

980H (JMS 1-3999)

980H (JMS 1-2170)

Machine

3000 Service Hour Maintenance Perform (3000 Hour Interval)

8000 Service Hour Maintenance Perform (8000 Hour Interval)

12000 Service Hour Maintenance Perform (12000 Hour Interval)

PM 1 Perform (250 Hour Interval)

PM 1 Perform Initial (250 Hour Interval)

PM 2 Perform (500 Hour Interval)

PM 2 Perform Initial (500 Hour Interval)

PM 3 Perform (1000 Hour Interval)

PM 4 Perform (2000 Hour Interval)

When Required Perform (30000 Hour Interval)

U.S. Customary

Metric

Sales Model: 980H

Serial Number Prefix: JMS

Serial Number Range: 00001-99999

Source: Caterpillar

Complexity: Easy - Repairs that involve common hand tools; Mechanical ability required; Requires no testing; Minimal instructions needed (OMM instructions are all that is needed).

Operation / Arrangement: Seat Belt Replace With New

SMCS Codes: 7327 511

Part Number	Description	Replacement	Reqd		Notes
222-0345	Seat Belt GP RETRACTABLE, 3-IN	Required	1	1	

Operation / Arrangement: Seat Belt Replace With New

SMCS Codes: 7327 511

Part Number	Description	Replacement	Reqd		Notes
236-7019	Seat Belt GP RETRACTABLE, 51-MM	Required	1	1	

Operation / Arrangement: Hydraulic System Drain / Refill Oil

SMCS Codes: 5050 44

Part Number	Description	Replacement	Reqd		Notes
HYDO 10	Hydo Advance 10	Required	33		
126-1818	Filter-Oil ULTRA HIGH EFFICIENCY	Required	1	1	
5P-2413	Regulator AS-Air	Tool	1	0	

Operation / Arrangement: Engine Cooling System Add Coolant Extender

SMCS Codes: 1350 538

Part Number	Description	Replacement	Reqd		Notes
119-5152	Eic Extender	Required	2	2	

Operation / Arrangement: Thermostat/Water Temp Reg Replace With New

SMCS Codes: 1355 511

Part Number	Description	Replacement	Reqd		Notes
248-5513	Regulator-Temperature 92-DEG C	Required	2	2	
3S-9843	Seal-Lip Type	Required	2	2	

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2

1

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jms228

regulator

Q

Wheel-Type Loader > 980H > JMS

Parts

Repair

Service

jms228

2005/04/28

Water Temperature Regulator - Remove and Install - Engine In Chassis (REN8663)

Service Information

Applied Failure Analysis

Bench Test Procedures

Contamination Control Guidelines

Custom Service Information

Disassembly And Assembly

980H Wheel Loader C15 Engine Supplement

Steering Frame Lock - Separate and Connect

System Pressure - Release

Hood Tilt Pump and Motor - Remove and Install

Hood Tilt Cylinder - Remove and Install

Hood - Remove

Hood - Install

Belt Tensioner - Remove and Install

Alternator - Remove and Install - Engine In Chassis

Electric Starting Motor - Remove and Install - Engine In C...

Fuel Filter Bases and Priming Pump - Remove - Engine In...

Fuel Filter Bases and Priming Pump - Install - Engine In C...

Fuel Transfer Pump - Remove and Install - Engine In Cha...

Fuel Tank - Remove

Fuel Tank - Install

Water Temperature Regulator - Remove and Install - Engi...

Water Pump - Remove - Engine In Chassis

Water Pump - Install - Engine In Chassis

Crankshaft Front Seal - Remove - Engine In Chassis

Crankshaft Front Seal - Install - Engine In Chassis

Expansion Tank - Remove

Expansion Tank - Install

Radiator Top Tank - Remove

Radiator Top Tank - Install

Radiator Core - Remove and Install

Radiator and Fan Group (Includes Coolers) - Remove

Radiator and Fan Group (Includes Coolers) - Install

Fan and Piston Motor (Hydraulic Fan) - Remove

Piston Motor (Hydraulic Fan) - Disassemble

Piston Motor (Hydraulic Fan) - Assemble

Fan and Piston Motor (Hydraulic Fan) - Install

Aftercooler - Remove and Install

Engine Compartment Shield - Remove

SMCS - 1355

102340903

Removal Procedure

1. Open the engine hood.

2. Drain the engine coolant. Refer to Operation and Maintenance Manual, "Cooling System Coolant (ELC) - Change".

3. Open the engine side panel that is located on the left side of the machine.

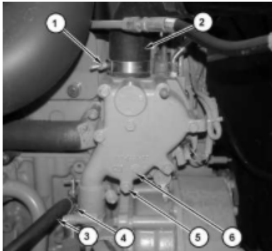
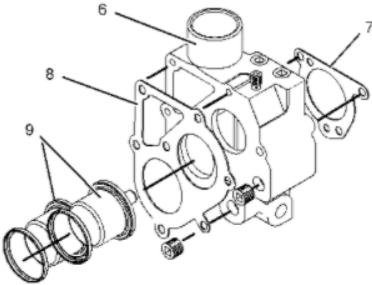


Illustration 1

g01094937

4. Loosen clamps (1) and (4). Disconnect hoses (2) and (3).

5. Remove bolts (5) and housing (6).



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SIS 2.0 QUICK START GUIDE

Caterpillar: Confidential Green

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2

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CAT

SIS 2.0

jms228

regulator

Q

Wheel-Type

Loader > 980H > JMS

Parts

Repair

Service

jms228

»

All Configurations

▼

Systems And Components

Braking System

Electrical And Starting System

Engine And Related Systems

Frame And Body

Hydraulic System

Implements

Machine Arrangement

Operator Station

Power Train

Service Equipment And Supplies

Steering System

Work Tools

Service Letters (PIP/PSP)

SIMSi

TMI

980H_WHEEL Loader

Machine Serial Number - JMS00228

C15_ENGINE - Machine

Engine Serial Number - LHX00116

Product - Entire Group (JMS00228)

Part Number	Serial Number	Part Name
235-5277		Warning GP-Backup
175-4190		Guard GP-Power Train
235-5315		Air Conditioner AR
235-5313		Starting Aid GP-Ether
225-5537		General AR
197-6474		Mirror GP-Rear View
133-1640		Protection GP-Vandalism
7K-5636		Cover GP-Xmsn Oil Filler Cap
225-5636		Tractor AR
187-5317		Bucket GP-General Purpose
100-6213		Edge GP-Cutting
100-8529		Control AR-Ride
105-6177		Tire & Rim AR
1000	LHX00116	Engine
236-4440		Plate & Film GP

Engine - Entire Group (LHX00116)

Part Number	Change Level	Part Name
225-0992	05	Engine AR-Complete

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 Cart

 My Lists

Shopping Cart

Order ID:

Cart 09-30-2020 09:46

Work Order:

Segment:

Operation:

 SAVE MY LIST







You can [add a note](#) to this order.

Quantity	SMCS	Serial Number	Part Number	Part Name	Group Number	Group Name	Note
× 1	1375	jms228	139-3550 	Gasket-Regulator	214-9045 	Cooler & Lines GP	+
× 2	1375	jms228	248-5513 	Regulator-Water Temperature	214-9045 	Cooler & Lines GP	+
× 2	1375	jms228	3S-9643 	Seal-Lip Type	214-9045 	Cooler & Lines GP	+
× 1	1375	jms228	4N-1156 	Gasket-Regulator Cover	214-9045 	Cooler & Lines GP	+

[Delete All](#)

Add Part

ORDER PARTS ▾

Price And Availability ▾

PREFIX OR SERIAL NUMBER FIELD

AutoSuggest has been implemented for the Prefix or Serial Number field. Simply begin typing a product family, model or prefix to view suggested results. Exact matches will display at the top of the list.

1

SEARCH

All search items in current SIS are incorporated into the "Part Number or Key word" field in SIS 2.0 including Basic Search, Advanced Full Text Search, Filters Search, SMCS Code Search, and Media Search. Providing a Prefix or Serial Number will narrow your results.

2

LANGUAGE

Click the globe icon to change the display language of SIS 2.0.

3

NEW INFORMATION IN LAST 7 DAYS

Click the newspaper icon to view all new information added in the last 7 days.

4

EXTERNAL LINKS

Links to external resources can be found under the External Links icon in the system header. Selecting these links will open a new browser tab and maintain your current session in SIS 2.0.

5

SHOPPING CART

The Shopping Cart icon can be used for ordering parts, parts pricing, and parts availability.

6

USER MENU

Click on your User ID in the top right corner to view user access. You can also review Privacy & Legal information from here.

7

QUICK FILTERS

Quick Filters can be used to quickly narrow your search results. The gear icon represents Parts results. The page and book icons represent Service Articles and Service Publications results, respectively. To return to All results, click the globe icon.

8

CHANGE PRODUCT CONFIGURATION

When viewing Parts information, you can select a different Product Configuration or Parts Manual by selecting an option from the dropdown. This option is only available for Parts information and will update the Systems and Components information based on the new selection.

9

PRODUCT STRUCTURE

Use the Navigate button directly from the Home page (Prefix or Serial Number required) or click on a part from the Search Results. This will show the Systems and Components breakdown of the product. If a part is selected, it will display the part under the appropriate Systems and Components.

10

WHERE USED

Click the Where Used tab to view a list of other products where the current part is used. You will only be able to view other products and prefixes that you have access to based on your user profile.

11

INFORMATION

The Information or "I" button is available beside each applicable part. Selecting it opens a new window that contains additional information such as the weight of the part, if it is returnable, replacement parts, as well as links to Service Articles.

12

ALTERNATES

Alternate parts can be found inline with their standard part in the Individual Parts consist. If available, some Kits will also be shown at the Group level. You can also search for alternate part numbers like you would any other query.

13

REPAIR TAB

Allows you to access Maintenance Interval Schedules and Preventative Maintenance Lists for your product.

14

DOCUMENT STRUCTURE

Use the Navigate button directly from the Home page (Prefix required) or click on a Service Article or publication from the Search Results. This will display all the document information that is available for your product. Selecting the '+' will expand the document type to show Service Articles and stories. Content in this pane will vary based on your user profile.

15

PIP/PSI, SMSI, TMI LINKS

If information for your product is available in other systems, links to those systems will be available on the Product Configuration page. While these links may appear active, they may not be available based on your user profile.

16

PRODUCT CONFIGURATION

In SIS 2.0, As Shipped is known as Product Configuration. If a complete Serial Number is provided, and invoice information is available, you can use the Navigate button from the Home Page or the Product Configuration result in the Search Results. This will show you the Bill of Material or BOM for your product.

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