CAT SIS 2.0

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Prefix or Serial Number

⊘ NAVIGATE

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

SIS 2.0 QUICK START GUIDE

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CAT SIS 2.0 | jms228 | regulator | 🔍

Wheel-Type Loa... ...ader > 980H > JMS

Filters ▼«

Date ▲
- ⦿ All
- ◯ Last 7 Days
- ◯ Custom Range

Information Type ▲
- ☐ Applied Failure Analysis (1)
- ☐ Bench Test Procedures (3)
- ☐ Contamination Control Guidelines (17)
- ☐ Custom Service Information (5)
- ☐ Disassembly And Assembly (31)
- ☐ Engine News (5)
- ☐ Information Release Memo (2)
- ☐ Operation And Maintenance Manual (55)
- ☐ Parts Identification (16)
- ☐ Reuse And Salvage Guidelines (35)
- ➕ Show More

Systems ▲
- ☐ Air Inlet And Exhaust System (16)
- ☐ Air System (1)
- ☐ Asphalt Spray System (2)
- ☐ Basic Engine (33)
- ☐ Braking System (44)
- ☐ Combine Header (4)
- ☐ Cooling System (38)
- ☐ Differential Steering System (5)
- ☐ Electrical And Starting System (78)
- ☐ Electrical System (15)
- ➕ Show More

SMCS Code ▲
- ☐ 0100 – Fundamental Knowledge & Theory (1)
- ☐ 0113 – Fluids & Hydraulics (1)
- ☐ 0353 – Safety (1)
- ☐ 0355 – Transportation & Storage (1)
- ☐ 0372 – Inspection, Diagnostic & Performance Test Information (1)

1 - 50 of **548** results | View: 50 | Page **1 / 11** ‹ ›

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 (SENR9831-60)
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 coo...
Operation And Maintenance Manual
2004/11/01

Alternator And Regulator 🔗
Specifications
2015/09/27

Water Temperature Regulator Housing 🔗
...ation 1 g02636276 Table 1 Specification for 137-7331 Regulator Housing Item Qty Part Specification Description 1 -...
Specifications - C15 and C18 Engines for Caterpillar Built Machines (SENR9831-60)
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 (SENR9831-60)
2011/10/23

Alternator And Regulator 🔗
....4 ± 1.0 N·m (38.9 ± 8.9 lb in). 4 1 185-2648 Voltage Regulator As Voltage setting requires no adjustment.
Specifications
2015/09/27

⚙ **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, 305-6220 KIT-GASKET
FOR USE WITH 225-0992, 280-9912, 313-5819, 235-4692, 303-1581

SIS 2.0 **QUICK START GUIDE**

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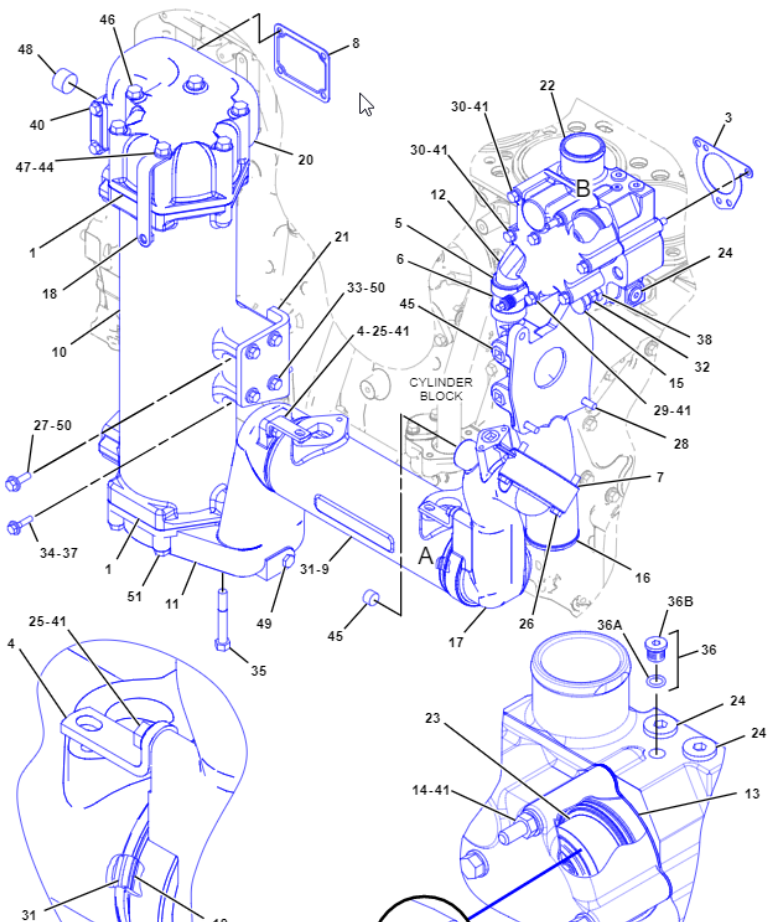
jms228 | regulator | 🔍

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Wheel-Type Loader > 980H > JMS

⚙ Parts · 🔧 Repair and Service

1

jms228 ⊘

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All Configurations ⌄

Systems And Components

- ⊕ Braking System
- ⊕ Electrical And Starting System **10**
- ⊖ 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 T... **11** ...RS
S/N TXG1-UP; LHX1-UP
PART OF 225-0992, 235-4692, 280-9912, 303-1581, ...456, 360-0418, 415-1208 ENGINE AR-COMPLETE

ⓘ

Individual Parts | Service Articles | Where Used   **12**

	Price And Availability ⌄			Quantity Reqd		
	Part Number		Part Name			
1	2S-0795	CCR	Gasket	2	2 🛒	ⓘ
2	3S-9643	CCR	Seal-Lip Type (Water Temperature Regulator)	2	2 🛒	ⓘ
3	4N-1156	CCR	Gasket-Regulator Cover	1	1 🛒	ⓘ
4	4N-1199		Clip	2	2 🛒	ⓘ
5	8T-4983	CCR	Clamp-Hose	2	2 🛒	ⓘ
6	9Y-4104	CCR	Hose	1	1 🛒	ⓘ
7	125-0434	CCR	Seal-Integral	1	1 🛒	ⓘ
8	126-495...	CCR	Seal-Integral	1	1 🛒	ⓘ
9	133-0125 Alternate ⌄	CCR	Core AS-Engine Oil Cooler	1	1 🛒	ⓘ
10	135-5577 Alternate ⌄	CCR	Core AS-Power Train Oil Cooler	1	1 🛒	ⓘ
11	135-7076		Bonnet-Inlet	1	1 🛒	ⓘ
12	137-7331		Housing-Regulator	1	1 🛒	ⓘ
13	139-3550	CCR	Gasket-Regulator (Housing)(Water, Coolant Temperature)	1	1 🛒	ⓘ
14	143-9393		Stud (3/8-16X4.5-IN)	1	1 🛒	ⓘ
15	157-0670	CCR	Cap-Dust	1	1 🛒	ⓘ
16	161-3565		Cover-Water Pump	1	1 🛒	ⓘ
17	170-4673		Bonnet-Inlet	1	1 🛒	ⓘ
18	173-1583		Bracket AS	1	1 🛒	ⓘ
	8T-3490		↪Nut-Weld (M10X1.5-THD)	0	🛒	ⓘ
19	187-6237		Adapter	1	1 🛒	ⓘ
20	205-9293		Bonnet	1	1 🛒	ⓘ
21	235-8159		Bracket AS	1	1 🛒	ⓘ
22	239-6304		Manifold-Housing	1	1 🛒	ⓘ
23	248-5513	CCR	Regulator -Water Temperature (92-DEG C)(Coolant)	2	2 🛒	ⓘ
24	353-5126		Plug AS	3		ⓘ

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CAT SIS 2   regulator   🔍   plunkja ▾

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

⚙ Parts   🔧 Repair   ▤ Service

jms228   **»**

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- ⊕ 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)
    - **6000 Service Hour Maintenance Perform (6000 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

Description:	6000 Service Hour Maint Perform
SMCS Codes:	7543 540
Total Hours:	0
Last Updated:	19-Jul-2020

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	🛒 All	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	🛒 All	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	🛒 All	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	🛒 All	Notes
119-5152	Elc Extender	Required	2	2 ➕🛒	

Operation / Arrangement: Thermostat/water Temp Reg Replace With New
SMCS Codes: 1355 511

Part Number	Description	Replacement	Reqd	🛒 All	Notes
248-5513	Regulator-Temperature 92-DEG C	Required	2	2 ➕🛒	
3S-9643	Seal-Lip Type	Required	2	2 ➕🛒	

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SIS 2.0 QUICK START GUIDE

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CAT SIS 2.0   jms228   regulator   🔍   🌐▾ 📋 🔗▾ 🛒 plunkja ▾

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

⚙ Parts   🔧 Re...   🔧 Service

jms228   🚫   »   2005/04/28   Water Temperature Regulator - Remove and Install - Engine In Chassis (RENR8663)   ☑ 🖨

Service Information

15

- ⊕ 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   i02340903

Removal Procedure

1. Open the engine hood.

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

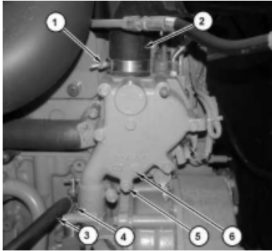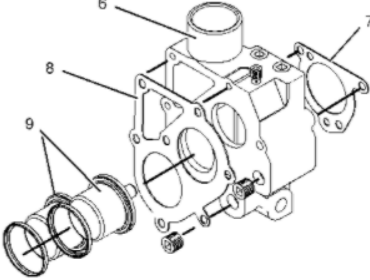3. Open the engine side panel that is located on the left side of the machine.

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

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CAT SIS 2.0   jms228   regulator   🔍   ▾   🌐▾ ▦ 🔗▾ 🛒   plunkja ▾

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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

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Service Letters (PIP/PSP) ⊠   SIMSi ⊠   TMI ⊠

980H_WHEEL Loader
Machine Serial Number - JMS00228

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C15_ENGINE - Machine
Engine Serial Number - LHX00116

Product - Entire Group (JMS00228)

Part Number	Serial Number	Part Name
↪235-5277		Warning GP-Backup
↪175-4196		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-5836		Cover GP-Xmsn Oil Filler Cap
225-5536		Tractor AR
187-5317		Bucket GP-General Purpose
109-9213		Edge GP-Cutting
196-8529		Control AR-Ride
165-6177		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:	Work Order:	Segment:	Operation:
Cart 09-30-2020 09:46			

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 ▾

SIS 2.0 QUICK START GUIDE

PREFIX OR SERIAL NUMBER FIELD (1)

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.

SEARCH (2)

All search items in current SIS are incorporated into the "Part Number or Keyword" 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.

LANGUAGE (3)

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

NEW INFORMATION IN LAST 7 DAYS (4)

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

EXTERNAL LINKS (5)

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.

SHOPPING CART (6)

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

USER MENU (7)

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

QUICK FILTERS (8)

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.

CHANGE PRODUCT CONFIGURATION (9)

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.

PRODUCT STRUCTURE (10)

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.

WHERE USED (11)

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.

INFORMATION (12)

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 pats, as well as links to Service Articles.

ALTERNATES (13)

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.

REPAIR TAB (14)

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

DOCUMENT STRUCTURE (15)

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.

PIP/PSP, SMSi, TMI LINKS (16)

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.

PRODUCT CONFIGURATION (17)

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.