

Product: EXCAVATOR

Model: E200B EXCAVATOR 6KG

Configuration: CROSS-REFERENCE LIST OF PTNR TO SCM, CBSA, DECATUR & MOSSVIL 6KG00001-UP (MACHINE)

## **Operation and Maintenance Manual**

**Product Link - 121SR/321SR/420/421/ 522/523**

**Media Number -SEBU8142-04**

**Publication Date -01/01/2013**

**Date Updated -24/10/2017**

s00514343

## **Foreword**

### **Literature Information**

This manual should be stored in the literature holder.

This manual contains safety information, operation instructions, and maintenance recommendations.

Some photographs or illustrations in this publication show details or attachments that can be different from your product.

Continuing improvement and advancement of product design might have caused changes to your product which are not included in this publication. Read, study and keep this manual with the product.

Whenever a question arises regarding your product, or this publication, please consult your Cat dealer for the latest available information.

## **Safety**

The safety section lists basic safety precautions. In addition, this section identifies the text and locations of warning signs and labels used on the product.

## **Operation**

The operation section is a reference for the new operator and a refresher for the experienced operator. This section includes a discussion of gauges, switches, product controls, attachment controls, and programming information.

Photographs and illustrations guide the operator through correct procedures of checking, starting, operating and stopping the product.

Operating techniques outlined in this publication are basic. Skill and techniques develop as the operator gains knowledge of the product and its capabilities.

# Maintenance

The maintenance section is a guide to equipment care.

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Product Link - 121SR/321SR/420/421/ 522/523

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Publication Date -01/01/2013

Date Updated -24/10/2017

i05237749

## Safety Signs and Labels

SMCS - 7606



**Do not operate or work on this machine unless you have read and understand the instructions and warnings in the Operation and Maintenance Manuals. Failure to follow the instructions or heed the warnings could result in injury or death. Contact your Cat dealer for replacement manuals. Proper care is your responsibility.**

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## Safety Messages

**The warning film in Illustration 1 can be found in a location such as the dash. The warning film will be clearly visible to the operator during the normal operation of the machine.**

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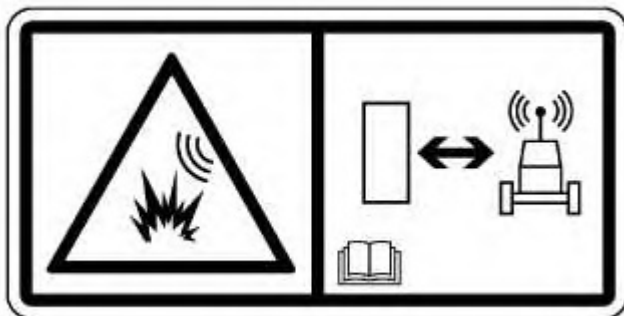


Illustration 1

g01370917

**<https://www.ebooklibonline.com>**

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

**<https://www.ebooklibonline.com>**



**This machine is equipped with a Caterpillar Product Link communication device. When electric detonators are used, this communication device should be deactivated within 12 m (40 ft) of a blast site, or within the distance mandated under applicable legal requirements. Failure to do so could cause interference with blasting operations and result in serious injury or death.**

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The blast site is defined as the area that handles explosive material during loading. Included is the perimeter that is formed by the loaded blast holes.

If the machine is required to work in or near a blasting site, the operator must disable the Product Link. That is, either the 121SR system or the 522/523 system must be disabled. One of the following methods are suggested in order to deactivate the Product Link 121SR system or the Product Link 522/523 system:

- Install a Product Link disconnect switch in the machine cab. This switch will allow the Product Link 121SR system or the Product Link 522/523 system module to be shut off. Refer to Special Instruction, REHS2365, "An Installation Guide for the Product Link PL121SR and for the PL300" or Special Instruction, REHS2368, "Installation Procedure For Product Link PL522/523 (Cellular)" for more details and installation instructions.
- While the blast site switch is in the OFF position, the Product Link 121SR system or the Product Link 522/523 system will no longer track Service Meter Unit (SMU) hours or VIMS data. A Service Meter Hours (SMH) adjustment will be required after power is restored to the Product Link system. Consult your Caterpillar dealer if there are any questions.
- Disconnect the Product Link 121SR system or the Product Link 522/523 system module from the main power source. This action is performed by disconnecting the wiring harness at the Product Link module.

## Other Films

The film in Illustration 2 can be found in a clearly visible location. A clearly visible location during the normal operation of the machine is described as the dash.

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Illustration 2

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The film in Illustration 2 is intended to inform the operator that the machine is equipped with a wireless transmitting device. Machine data, the condition of the machine, and the operation of the machine will be transmitted by the Product Link. The information is transmitted to Caterpillar and/or Caterpillar dealers to serve the customer better and to improve upon Caterpillar products and services. Transmission of information using Product Link is subject to legal requirements that may vary from location to location.

Refer to the Operation and Maintenance Manual, SEBU8142, "Operation" and the Operation and Maintenance Manual, SEBU8142, "Regulatory Compliance Section" for additional information.

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## Operation and Maintenance Manual

Product Link - 121SR/321SR/420/421/ 522/523

Media Number -SEBU8142-04

Publication Date -01/01/2013

Date Updated -24/10/2017

i05237789

## General Hazard Information

SMCS - 7606



**Do not operate or work on this machine unless you have read and understand the instructions and warnings in the Operation and Maintenance Manuals. Failure to follow the instructions or heed the warnings could result in injury or death. Contact your Cat dealer for replacement manuals. Proper care is your responsibility.**

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## Foreword

This document is a supplement to the Operation and Maintenance Manual for the machine. Permanently attach this document to the Operation and Maintenance Manual for the machine.

## Introduction

This document provides information about the operation of the following:

- Product Link 121SR/321SR systems
- Product Link 522/523 systems
- Product Link 420/421 systems

Machine operation and maintenance must not occur unless the instructions and warnings in the Operation and Maintenance Manual have been read and understood. The contents of this document must be understood before a machine that is equipped with any of the following:

- Product Link 121SR/321SR system

- Product Link 522/523 system
  - Product Link 420/421 system
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## Operation and Maintenance Manual

Product Link - 121SR/321SR/420/421/ 522/523

Media Number -SEBU8142-04

Publication Date -01/01/2013

Date Updated -24/10/2017

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## Regulatory Compliance

SMCS - 1400; 4203; 4450; 7347; 7451; 7490; 7606

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### NOTICE

**The transmission of information using a Caterpillar Product Link communication device is subject to legal requirements. The legal requirements may vary from location to location, including, but not limited to, radio frequency use authorization. The use of a Caterpillar Product Link communication device must be limited to those locations where all legal requirements for the use of the Caterpillar Product Link communication device and communication network have been satisfied.**

**If equipment outfitted with the Caterpillar Product Link communication device is located in or relocated to a location where (i) legal requirements are not satisfied or (ii) transmitting or processing of such information across multiple locations would not be legal, Caterpillar disclaims any liability related to such failure to comply, and Caterpillar may discontinue the transmission of information from that equipment.**

**Consult your Cat dealer with any questions that concern the operation of the Product Link system in a specific country.**

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## PL121 and PL321 Radio Notices

### FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users authority to use this device.

## **Industry Canada Notice to Users**

This device complies with Industry Canadas license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

## **EU Notice to Users**

The PL121 and PL321 have been so constructed that they can be operated in Belgium without infringing applicable requirements on the use of their radio spectrum.

## **PL522 and PL523 Radio Notices**

### **FCC Notice**

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/tv technician for help

Changes or modifications to this device without the express approval of Caterpillar may void the users authority to use this device.

### Industry Canada Notice to Users

This device complies with Industry Canadas license exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device.

### EU Notice to Users

The PL522 and PL523 have been so constructed that they can be operated in Belgium without infringing applicable requirements on the use of their radio spectrum.

## Data Broadcast

The following Caterpillar Product Link communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 1

<b>Radio Transmitter Specifications</b>		
<b>Radio Model (Maximum)</b>	<b>Transmitter Frequency Range</b>	<b>Transmitter Power</b>
PL121	148 MHz - 150 MHz	5W typical, 10W max
PL420	824 MHz - 849 MHz	0.5W typical, 2W max
	880 MHz - 915 MHz	

	1710 MHz - 1785 MHz	
	1850 MHz - 1910 MHz	
PL421	824 MHz - 849 MHz	0.5W typical, 2W max
	880 MHz - 915 MHz	
	1710 MHz - 1785 MHz	
	1850 MHz - 1910 MHz	
PL522	824 MHz - 849 MHz	0.5W typical, 2W max
	880 MHz - 915 MHz	
	1710 MHz - 1785 MHz	
	1850 MHz - 1910 MHz	
PL523	824 MHz - 849 MHz	0.5W typical, 2W max
	880 MHz - 915 MHz	
	1710 MHz - 1785 MHz	
	1850 MHz - 1910 MHz	

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## Operation and Maintenance Manual Product Link - 121SR/321SR/420/421/ 522/523

Media Number -SEBU8142-04

Publication Date -01/01/2013

Date Updated -24/10/2017

i07233032

## Product Link

SMCS - 7606

**Note:** Your machine may be equipped with the Cat<sup>®</sup> Product Link<sup>™</sup> system.

The Cat Product Link communication device utilizes cellular and/or satellite technology to communicate equipment information. This information is communicated to Caterpillar, Cat dealers, and Caterpillar customers. The Cat Product Link communication device uses Global Positioning System (GPS) satellite receivers.

The capability of two-way communication between the equipment and a remote user is available with the Cat Product Link communication device. The remote user can be a dealer or a customer.

## Data Broadcasts

Data concerning this machine, the condition of the machine, and the operation of the machine is being transmitted by Cat Product Link to Caterpillar and/or Cat dealers. The data is used to serve the customer better and to improve upon Cat products and services. The information transmitted may include: machine serial number, machine location, and operational data, including but not limited to: fault codes, emissions data, fuel usage, service meter hours, software, and hardware version numbers and installed attachments.

Caterpillar and/or Cat dealers may use this information for various purposes. Refer to the following list for possible uses:

- Providing services to the customer and/or the machine
- Checking or maintaining Cat Product Link equipment
- Monitoring the health of the machine or performance
- Helping maintain the machine and/or improve the efficiency of the machine
- Evaluating or improving Cat products and services
- Complying with legal requirements and valid court orders

- Performing market research
- Offering the customer new products and services

Caterpillar may share some or all the collected information with Caterpillar affiliated companies, dealers, and authorized representatives. Caterpillar will not sell or rent collected information to any other third party and will exercise reasonable efforts to keep the information secure. Caterpillar recognizes and respects customer privacy. For more information, please contact your local Cat dealer.

## Operation in a Blast Site for Product Link Radios



**This equipment is equipped with a Cat<sup>®</sup> Product Link communication device. When electric detonators are being used for blasting operations, radio frequency devices can cause interference with electric detonators for blasting operations which can result in serious injury or death. The Product Link communication device should be deactivated within the distance mandated under all applicable national or local regulatory requirements. In the absence of any regulatory requirements Caterpillar recommends the end user perform their own risk assessment to determine safe operating distance.**

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Refer to your products Operation and Maintenance Manual Supplement, "Regulatory Compliance Information" for more information.

For information regarding the methods to disable the Cat Product Link communication device, please refer to your specific Cat Product Link manual listed below:

- Operation and Maintenance Manual, SEBU8142, "Product Link - 121SR/321SR/420/421/522/523"
- Operation and Maintenance Manual, SEBU8832, "Product Link PLE601, PL641, PL631, PL542, PL240, PL241, PL141, PL131, PL161, and G0100 Systems"

**Note:** If no radio disable switch is installed and the equipment will be operating near a blast zone, a Product Link radio disable switch may be installed on the equipment. The switch will allow the Cat Product Link communication device to be shut off by the operator from the equipment control panel. For more details and installation procedures, refer to the following:

- Special Instruction, "Installation Procedure for Product Link PLE640 Systems" REHS7339
- Special Instruction, "Installation Procedure for the Elite Product Link PLE601, PLE641, and PLE631 Systems", REHS8850
- Special Instruction, "Installation Procedure for the Product Link PL131, PL141, and PL161 Systems", SEHS0377

- Special Instruction, "Installation Procedure for the Pro Product Link PL641 and PL631 Systems", REHS9111
-

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## **Operation and Maintenance Manual Caterpillar Corporate Radio**

Media Number -M0085473-03

Publication Date -01/11/2018

Date Updated -14/02/2018

s02590205

## **Foreword**

SMCS - 7606

## **Literature Information**

This manual should be read carefully before using this product for the first time and before performing maintenance. This manual should be stored in the product literature holder or in the product literature storage area. Immediately replace this manual if lost, damaged, or unreadable. This manual may contain safety information, operation instructions, transportation information, lubrication information, and maintenance information. Some photographs or illustrations in this publication show details or attachments that can be different from your product. Guards and covers might have been removed for illustrative purposes. Continuing improvement and advancement of product design might have caused changes to your product, which are not included in this publication. Whenever a question arises regarding your product, or this publication, consult your dealer for the latest available information.

## **Safety**

The safety section, if present, lists basic safety precautions. In addition, this section identifies the text and locations of safety messages used on the product. Read and understand the basic precautions listed in the safety section before operating or performing lubrication, maintenance, and repair on this product.

## **Operation**

The operation section, if present, is a reference for the new operator and a refresher for the experienced operator. This section includes a discussion of gauges, switches, controls, attachment controls, transportation, and towing information (if applicable). Photographs and illustrations guide the operator through correct procedures of checking, starting, operating, and stopping the product. Operating techniques outlined in this publication are basic. Skill and techniques develop as the operator gains knowledge of the product and its capabilities.

## **Product Information**

The product information section, if present, may provide specification data, product intended use, product identification plate locations, and certification information.

## **Maintenance**

The maintenance section, if present, is a guide to equipment care. Proper maintenance and repair are essential to keep the equipment and systems operating correctly. As the owner, you are responsible for the performance of the required maintenance listed in the Owner Manual, Operation and Maintenance Manual, and Service Manual. The Maintenance Interval Schedule lists the items to be maintained at a specific service interval. Items without specific intervals are listed under the "When Required" service interval. The Maintenance Interval Schedule lists the page number for the step-by-step instructions required to accomplish the scheduled maintenance. Use the Maintenance Interval Schedule as an index or "one safe source" for all maintenance procedures.

## **Maintenance Intervals**

Use the service hour meter to determine servicing intervals. Calendar intervals shown (daily, weekly, monthly, etc.) can be used instead of service hour meter intervals if they provide more convenient servicing schedules and approximate the indicated service hour meter reading. Recommended service should always be performed at the interval that occurs first. Under extremely severe, dusty, or wet operating conditions, more frequent lubrication than is specified in the maintenance intervals chart might be necessary. Perform service on items at multiples of the original requirement. For example, at every 500 service hours or 3 months, also service those items listed under every 250 service hours or monthly and every 10 service hours or daily.

## **Product Capacity**

Additional attachments or modifications may exceed product design capacity, which can adversely affect product performance characteristics, safety, reliability, and applicable certifications. Contact your dealer for further information.

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Media Number -M0085473-03

Publication Date -01/11/2018

Date Updated -14/02/2018

i07214428

## General Hazard Information

SMCS - 7606



**Do not operate or work on this equipment unless you have read and understand the instructions and warnings in the Operation and Maintenance Manuals. Failure to follow the instructions or heed the warnings could result in injury or death. Contact your Caterpillar dealer for replacement manuals. Proper care is your responsibility.**

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## Foreword

This document is a supplement to the Operation and Maintenance Manual for the equipment. Permanently attach this document to the Operation and Maintenance Manual for the equipment.

## Introduction

This document provides information about the operation of the Caterpillar AM/FM Radio System.

Operation of the equipment and the maintenance of the equipment must not occur unless the instructions and warnings in the Operation and Maintenance Manual for the equipment have been read and the instructions and the warnings are understood. The contents of this document must be understood before the equipment that is equipped with the Caterpillar AM/FM Radio System is operated.

## Warnings and Compliance

Thank you for purchasing this product, read the manual carefully before operating, and reserve manual for future reference.

## Precaution

- Use only in a 12-volt DC negative- ground electrical system.
- Disconnect the vehicles negative battery terminal while mounting and connecting the unit.
- When replacing the fuse, be sure to use one with an identical amperage rating.
- Using a fuse with a higher amperage rating may cause serious damage to the unit.
- Make sure that pins or obstacles do not get inside the unit, pins and obstacles may cause malfunctions, or create safety hazards such as electrical shock.
- If you have parked the vehicle for a long time in hot or cold weather, wait until the temperature in the vehicle becomes normal before operating the unit.

## Before Operation

Do not raise the volume level too high. Keep the volume at a level at which you can hear outside warning sounds (horns sirens, and so on).

Stop the vehicle before performing any complicated operations.

## Caution

Do not open the cover and do not repair. Ask your authorized dealer for help.

**Note:** According to models with different wiring harness to connect the definition of the specific content, refer to the model label.

**Note:** Specifications and the design are subject to change without notice due to improvements in technology.

Operation and Maintenance Manuals(OMM) are currently available at: [www.cat.com/radio-owners-manual](http://www.cat.com/radio-owners-manual)

For mobile equipment or equipment that is located in areas where direct internet access is not available while the product is in use, a paper copy of the OMM must be printed and kept with the product.

For more information or for a paper copy of the OMM contact your nearest Cat Dealer:  
[www.cat.com/en\\_US/support/dealer-locator.html](http://www.cat.com/en_US/support/dealer-locator.html)

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Media Number -M0085473-03

Publication Date -01/11/2018

Date Updated -14/02/2018

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## **Regulatory Compliance**

SMCS - 7606

### **FCC Notice**

The following notices are provided.

### **Modification Statement**

Caterpillar has not approved any changes or modifications to this device by the user. Any changes or modifications could void the users authority to operate the equipment.

### **Interference**

This device complies with Part 15 of the FCC Rules and Industry Canada license - exempt RSS standards. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

### **Radiation Exposure**

This device complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. RF Exposure guidelines can be found in Supplement C to OET65. The device also complies with RSS-102 of the IC radio frequency (RF) Exposure rules. Do not locate the transmitter near an antenna or operating with any other antenna or transmitter.

### **FCC Class B digital device notice**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can

radiate radio frequency energy. If the equipment is not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on. The user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this device without the express approval may void the user's authority to use this device.

## CAN ICES-3 (B) / NMB (B)

This Class B digital apparatus complies with Canadian ICES-003.

## Simplified EU Declaration of Conformity/RED 2014/53/ EU Directive

This device has been evaluated against the essential requirements of the 2014/53/EU Directive.

## Radio Frequency Range

The following Driver Safety System communication device specifications are provided to aid in conducting any related hazard assessment and to ensure compliance with all local regulations:

Table 1

<b>Bluetooth</b>	
Frequency Range:	2402–2480 MHz carrier frequencies
Maximum RF output power:	+4dBm
Modulations:	GFSK: $\pi/4$ -DQPSK and 8DPSK
Channel Spacing:	1 MHz
Number of channels:	79
Channel bandwidth:	1 MHz for GFSK,
Type of Antenna:	Brand Amotech part number: AL.A321C3 chip antenna/Gain 2.3dbi
Antenna gain:	+2.3dBi Max

**Note:** The DEA 500 radio can operate in Belgium without infringing on applicable requirements on the use of Belgium's radio spectrum.

Table 2

<b>AM</b>	
Frequency Range:	531 kHz to 1602 kHz
Maximum RF output power:	+/- 6dBi typical
Modulations:	Amplitude modulation
Channel Spacing:	9kHz
Type of Antenna:	0.75m typical monopole
Antenna gain:	0dBuV to 130dBuV

Table 3

<b>FM</b>	
Frequency Range:	87 MHz to 108 MHz
Maximum RF output power:	+/- 6dBi typical
Modulations:	Frequency modulation
Channel Spacing:	100 kHz
Type of Antenna:	0.75m typical monopole
Antenna gain:	0dBuV to 130dBuV

Table 4

English	Hereby, Caterpillar declares that this DEA500 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EC.
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To satisfy the essential requirements of 2014/53/EC Directive, the product is compliant with the following standards:

Caterpillar declares on our sole responsibility that the following product is in compliance with Directive 2014/53/EU and the essential requirements of Car Radio.

Type Designation:

- DEA500
- HW Rev A SW Rev B Services
- Frequency range and max output power: Bluetooth 2402 - 2480 Mhz 4dBm (2.5 mW) EIRP
- AM 531–1602 kHz
- FM 87.5–108.0 MHz



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**Thank you so much for reading**

The conformity assessment per Directive 2014/53/EC has been followed with the involvement of the following Notified Body: DEKRA Testing and Certification no: 1909, S.A.U. Parque Tecnológico de Andalucía C/Servero Ochoa 2 29590 Campanillas - Malaga SPAIN performed an EU type examination and issued the certificate: 53627NRB.001.

Table 5

3.1 (a): Health and Safety of the User	EN 60950-1:2006 + A11:2009 + A12:2011 + AC:2011 + A2:2013
3.1 (b): Electromagnetic Compatibility	EN 301 489-1 V2.2.0, EN 301 489-17 V3.2.0, EN 55020:2007+ A11:2011
3.2: Effective use of spectrum allocated	EN 300 328 V2.1.1, EN 303 345 V1.1.1

There is no restriction for the commercialization of this device in all the countries of the European Union.

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Publication Date -01/11/2018

Date Updated -14/02/2018

i07214449

## Declaration of Conformity

SMCS - 7606

Table 1

**CATERPILLAR®**

EU Declaration of Conformity

This Declaration of Conformity is issued under the sole responsibility of the manufacturer.

The undersigned, representing the  
manufacturer:

**Caterpillar, Inc.**

100 N.E. Adams

Peoria, IL 61629

USA

hereby declares that the product, object of this  
description:

**Caterpillar DEA500 model entertainment radios**

**Brand: Caterpillar**

**Model: DEA500**

**Part Numbers: 462-9618, 462-9619, 462-9620, 462-9621, 439-1562, 439-1563, 439-1564**

**Is in conformity with the relevant Union harmonization legislation: Directive 2014/53/EU**

**Conformity is shown by compliance with the applicable requirements of the following  
documents:**

**Conformity Assessment Procedure: \_\_\_ Annex II, \_\_\_ X \_\_\_ Annex III, \_\_\_ Annex IV**

**<https://www.ebooklibonline.com>**

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Thank you very much for reading.

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