



Operation and Maintenance Manual

Product Link™ PLE702, PLE602, PLE602P, PLE601, PL671, PL641, PL641V2, PL631, PL631V2, PL542, PL542V2, PL243, PL241, PL240, PL240B, PL161, PL141, PL131, PL083, and PL042 Systems

PL6 1-UP (Machine Control & Guidance Products)
PL2 1-UP (Machine Control & Guidance Products)
PL1 1-UP (Machine Control & Guidance Products)
PL0 1-UP (Machine Control & Guidance Products)
PL5 1-UP (Machine Control & Guidance Products)
PL7 1-UP (Machine Control & Guidance Products)

Language: Original Instructions

Important Safety Information

Most accidents that involve product operation, maintenance and repair are caused by failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing potentially hazardous situations before an accident occurs. A person must be alert to potential hazards, including human factors that can affect safety. This person should also have the necessary training, skills and tools to perform these functions properly.

Improper operation, lubrication, maintenance or repair of this product can be dangerous and could result in injury or death.

Do not operate or perform any lubrication, maintenance or repair on this product, until you verify that you are authorized to perform this work, and have read and understood the operation, lubrication, maintenance and repair information.

Safety precautions and warnings are provided in this manual and on the product. If these hazard warnings are not heeded, bodily injury or death could occur to you or to other persons.

The hazards are identified by the "Safety Alert Symbol" and followed by a "Signal Word" such as "DANGER", "WARNING" or "CAUTION". The Safety Alert "WARNING" label is shown below.



The meaning of this safety alert symbol is as follows:

Attention! Become Alert! Your Safety is Involved.

The message that appears under the warning explains the hazard and can be either written or pictorially presented.

A non-exhaustive list of operations that may cause product damage are identified by "NOTICE" labels on the product and in this publication.

Caterpillar cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this publication and on the product are, therefore, not all inclusive. You must not use this product in any manner different from that considered by this manual without first satisfying yourself that you have considered all safety rules and precautions applicable to the operation of the product in the location of use, including site-specific rules and precautions applicable to the worksite. If a tool, procedure, work method or operating technique that is not specifically recommended by Caterpillar is used, you must satisfy yourself that it is safe for you and for others. You should also ensure that you are authorized to perform this work, and that the product will not be damaged or become unsafe by the operation, lubrication, maintenance or repair procedures that you intend to use.

The information, specifications, and illustrations in this publication are on the basis of information that was available at the time that the publication was written. The specifications, torques, pressures, measurements, adjustments, illustrations, and other items can change at any time. These changes can affect the service that is given to the product. Obtain the complete and most current information before you start any job. Cat dealers have the most current information available.

NOTICE

When replacement parts are required for this product Caterpillar recommends using original Caterpillar® replacement parts.

Other parts may not meet certain original equipment specifications.

When replacement parts are installed, the machine owner/user should ensure that the machine remains in compliance with all applicable requirements.

In the United States, the maintenance, replacement, or repair of the emission control devices and systems may be performed by any repair establishment or individual of the owner's choosing.

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Foreword

Literature Information

This manual should be stored in the operator's compartment in the literature holder or seat back literature storage area.

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 machine.

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.

SEBU8832-24 5
Safety Section

Safety Section

i08024861

Safety Signs and Labels

SMCS Code: 7606

WARNING

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.

WARNING

Improper operation of an access platform could result in injury or death. Operators must carry out their duties properly and follow all instructions and guidelines given for the machine and access platform.

MARNING

Accidental engine starting can cause injury or death to personnel working on the equipment.

To avoid accidental engine starting, disconnect the battery cable from the negative (-) battery terminal. Completely tape all metal surfaces of the disconnected battery cable end in order to prevent contact with other metal surfaces which could activate the engine electrical system.

Turn the battery disconnect switch to the OFF position and lockout the battery disconnect switch with a safety lock.

Place a Special Instruction, SEHS7332, "Do Not Operate" tag at the start switch and battery disconnect location to inform personnel that the machine is being worked on.

Safety Messages

The warning film in Illustration 1 can be found in a location such as the dash or control panel. The warning film is clearly visible to the operator during the normal operation of the equipment.

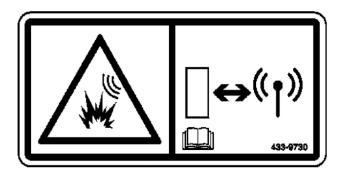


Illustration 1 Film

g03356592

Safety Signs and Labels

MARNING

This equipment is equipped with a Cat® 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.

General Safety Rules

The following safety rules are to be followed:

- In the event of any problem, do not open the product and contact the nearest service laboratory.
- · Keep the product away from liquids.
- In the case of strange odors, noises originating from the product, it is to be immediately disconnected from the network and the service laboratory is to be contacted.
- Prior to cleaning the product, it is to be disconnected from the network.
- Installation and maintenance are to be carried out by a qualified electrician and in accordance with the electrical regulations.

Blast Site Safety

Note: If using the previous version of Product Link radios (PL121SR, 522, 523, 420, or 421) refer to blast site requirements as stated in Operation and Maintenance Manual, SEBU8142.

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 required, the following are suggested methods to disable the Caterpillar Product Link communication device:

- Turn the Product Link radio disable switch to the OFF position.
- Disconnect the Caterpillar Product Link communication device from the main power source. This action is performed by disconnecting the wiring harness at the Product Link radio.
- If equipped with a PL141 or PL131 turn off the Product Link device or remove its internal battery.
- If equipped with a PL161 remove the PL161 from the equipment.
- The PL542 contains an internal battery that cannot be turned OFF manually. If necessary remove the PL542 from the equipment.
- The PL240B contains an internal battery that cannot be turned OFF manually. If necessary remove the PL240B from the equipment.
- The PL243 contains an internal battery that cannot be turned OFF manually. There is an RF disable input switch. Refer to Special Instruction, M0098124 for more details.
- The PL083 contains an internal battery that cannot be turned OFF manually. There is an RF disable input switch. Refer to Special Instruction, M0109130 for more details.

Note: If no radio disable switch is installed and the equipment will be operating near a blast zone, a radio disable switch may be installed. The switch will allow the Caterpillar Product Link communication device to be shut off by the operator from the equipment control panel. Refer to Special Instruction, REHS7339, Special Instruction, REHS8850, Special Instruction, REHS9111, Special Instruction, SEHS0377, and Special Instruction, REHS9757 for more details and installation instructions.

Consult your Cat dealer if there are any questions.

Other Films

The film in Illustration 2 can be found in a location such as the dash or control panel. The warning film is clearly visible to the operator during the normal operation of the equipment.

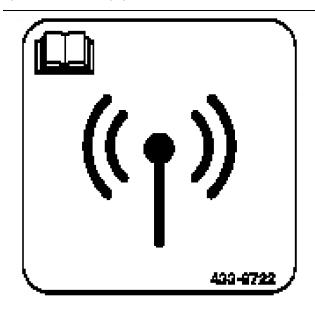


Illustration 2 g03356733

The film in Illustration 2 is intended to inform the operator that the equipment is equipped with a wireless transmitting device. Accordingly, data concerning this equipment, the condition of the equipment, and the operation of the equipment is being transmitted by the Caterpillar Product Link communication device to Caterpillar and is communicated to customers and Caterpillar dealers by the user interface. The data is used to serve the customer better and to improve upon Caterpillar products and services. Transmission of information using a Caterpillar Product Link communication device is subject to legal requirements that may vary from location to location.

Refer to the Operation and Maintenance Manual, SEBU8832, "Operation" and the Operation and Maintenance Manual, SEBU8832, "Regulatory Compliance" section for additional information.

i05951990

General Hazard Information

SMCS Code: 7606

WARNING

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.

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 Product Link communication device.

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 Product Link communication device is operated.

Regulatory Compliance Information

Radio Frequency Components

i07879362

Product Link (PLE702 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL71-Up

MARNING

Care must be taken in handling lithium batteries.

Lithium batteries are not a serviceable part.

Personal injury can result from battery exploding.

Caution must be used because there is risk of an explosion if the battery is replaced by an incorrect type.

Do not dispose of battery or batteries in a fire. The battery is capable of exploding and emitting caustic chemicals.

Dispose of used batteries according to federal and local laws.

NOTICE

The transmission of information using a Cat 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 Cat Product Link communication device must be limited to those locations where all legal requirements for the use of the Cat Product Link communication device and communication network have been satisfied.

If equipment outfitted with the Cat 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.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

WARNING

This equipment is equipped with a Cat® 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.

The following Cat 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

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Current Draw Range
PLE702	9–32V	780mA-320mA

Certification Notices

Canada Notice to Users

This device complies with Industry Canada 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.

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.

Certification Markings

EHC

EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PLE702 product description in the EAEU: Module for reception-transmission of data from sensors, Cat brand, model PLE702.

i07879388

Product Link

(PL131 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL11–Up

NOTICE

The transmission of information using a Cat 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 Cat Product Link communication device must be limited to those locations where all legal requirements for the use of the Cat Product Link communication device and communication network have been satisfied.

If equipment outfitted with the Cat 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.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

WARNING

This equipment is equipped with a Cat® 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.

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

Table 2

Radio Transmitter Specifications		
Model	Transmitter Frequency Range	Transmitter Power
PL131	1616 MHz - 1626.5 MHz	1.2W Typical, 1.5W max

Table 3

Operating Voltage and Current Draw		
Model Voltage Range		Maximum Current Draw Range
PL131	3.6V Internal Battery	2A

Certification Notices

Canada Notice to Users

This device complies with Industry Canada's 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.

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.

i07828824

Product Link

(PL141 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL11-Up

WARNING

Care must be taken in handling lithium batteries.

Lithium batteries are not a serviceable part.

Personal injury can result from battery exploding.

Caution must be used because there is risk of an explosion if the battery is replaced by an incorrect type.

Do not dispose of battery or batteries in a fire. The battery is capable of exploding and emitting caustic chemicals.

Dispose of used batteries according to federal and local laws.

NOTICE

The transmission of information using a Cat 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 Cat Product Link communication device must be limited to those locations where all legal requirements for the use of the Cat Product Link communication device and communication network have been satisfied.

If equipment outfitted with the Cat 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.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

⚠ WARNING

This equipment is equipped with a Cat® 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.

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

Table 4

Radio Transmitter Specifications		
Model	Transmitter Frequency Range	Transmitter Power
	824 MHz - 849 MHz	
	880 MHZ - 915 MHz	
PL141	1710 MHz - 1755 MHz	0.5W typical, 2W max
	1850 MHz - 1910 MHz	
	1920 MHz - 1980 MHz	

Table 5

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Current Draw Range
PL141	3.6V Internal Battery	2A

Certification Notices

Canada Notice to Users

This device complies with Industry Canada 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.

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.

Certification Markings



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PL141 product description in the EAEU: Cellular location sensors brand Caterpillar model PL141.

Declaration of Conformity - European Union

Table 6

12

CATERPILLAR ®
EU Declaration of Conformity

	EU Declaration of Co	nformity
This Declaration of Conformity is issued under	the sole responsibility of the m	anufacturer.
The undersigned, representing the manufacture	rer:	
CATERPILLAR INC		
100 N.E. Adams Street		
Peoria, IL 61629		
USA		
hereby declares that the product, object of this	description:	
Product Link, PL141, Satellite Radio Telematic	cs Device	
Brand: Caterpillar	Model: PL141	
Part Number: 448-3379		
Antenna Part Number: Internal Antenna		
Is in conformity with the relevant Union harmon	nization legislation:	
Directive 2014/53/EU		
Directive 2011/65/EU		
Conformity is shown by compliance with the ap	oplicable requirements of the fo	llowing documents:
Conformity Assessment Procedure:X	Annex II, Annex III, _	Annex IV
2014/53/EU:	LVD (Sec 3.1a):	EN60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013
		EN 62311:2008
	EMC (Sec 3.1b):	EN 301 489-1 V2.1.1
		EN 301 489-19 V2.1.0
		EN 301 489-52 V1.1.0
	RF (Sec 3.2)	EN 301 511 V12.5.1
		EN 301 908-1 V11.1.1
		EN 303 413 V1.1.1
2011/65/EU:	RoHS	EN 50581:2012

Signature: Michael Caruthan

Name: Michael Caruthers Title: Engineering Manager

Place: Peoria, IL Date: 25feb2019

Illustration 3 g06410332

i07880268

Product Link

(PLE601 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL61-Up

A WARNING

Care must be taken in handling lithium batteries.

Lithium batteries are not a serviceable part.

Personal injury can result from battery exploding.

Caution must be used because there is risk of an explosion if the battery is replaced by an incorrect type.

Do not dispose of battery or batteries in a fire. The battery is capable of exploding and emitting caustic chemicals.

Dispose of used batteries according to federal and local laws.

NOTICE

The transmission of information using a Cat 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 Cat Product Link communication device must be limited to those locations where all legal requirements for the use of the Cat Product Link communication device and communication network have been satisfied.

If equipment outfitted with the Cat 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.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

WARNING

This equipment is equipped with a Cat® 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.

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

Table 7

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Current Draw
PLE601	9–32V	500mA - 300mA

Certification Notices

Canada Notice to Users

This device complies with Industry Canada 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.

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.

Certification Markings

EHC

EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PLE601 product description in the EAEU: Electronic programmable control unit Cat brand, model PLE601.

i07880278

Product Link (PLE602 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL61-Up

⚠ WARNING

Care must be taken in handling lithium batteries.

Lithium batteries are not a serviceable part.

Personal injury can result from battery exploding.

Caution must be used because there is risk of an explosion if the battery is replaced by an incorrect type.

Do not dispose of battery or batteries in a fire. The battery is capable of exploding and emitting caustic chemicals.

Dispose of used batteries according to federal and local laws.

NOTICE

The transmission of information using a Cat 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 Cat Product Link communication device must be limited to those locations where all legal requirements for the use of the Cat Product Link communication device and communication network have been satisfied.

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

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

A WARNING

This equipment is equipped with a Cat® 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.

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

Table 8

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Current Draw
PLE602	9–32V	630mA - 330mA

Certification Notices

Canada Notice to Users

This device complies with Industry Canada 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.

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.

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- · 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.

Certification Markings

EHC

EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PLE602 product description in the EAEU: Module for the reception-transmission of data from sensors, Cat brand, model PLE602.

i07907059

Product Link

(PL042 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL01-Up

NOTICE

The transmission of information using a Cat 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 Cat Product Link communication device must be limited to those locations where all legal requirements for the use of the Cat Product Link communication device and communication network have been satisfied.

If equipment outfitted with the Cat 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.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

WARNING

This equipment is equipped with a Cat® 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.

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

Table 9

Radio Transmitter Specifications		
Model	Transmitter Frequency Range	Transmitter Power
	824 MHz - 849 MHz	
	880 MHZ - 915 MHz	0.5)4/4
PL042	1710 MHz - 1755 MHz	0.5W typical, 2W max
	1850 MHz - 1910 MHz	ZVVIIIdX
	1920 MHz - 1980 MHz	

Table 10

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Cur- rent Draw
PL042	9–32V	250 mA –200 mA

Certification Notices

Canada Notice to Users

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.

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.

Certification Markings

Nigeria – Connection and use of this communications equipment is permitted by the Nigerian Communications Commission

Singapore – Complies with IDA Standards DB105771

Thailand – This telecommunication equipment conforms to NTC technical requirement

Indonesia – 51763/SDPPI/2017



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PL042 product description in the EAEU: Telematic equipment Cat brand, model PL042.



Japan - R 003-170036. T D170023003

Declaration of Conformity - European Union

Table 11

18

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 Street

Peoria, IL 61629

USA

hereby declares that the product, object of this description:

Brand: Caterpillar Model: PL042

Part Number: 514-7505 Antenna Part Number:

Internal

Is in conformity with the relevant Union harmonization legislation:

Directive 2014/53/EU

Directive 2011/65/EU

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

Conformity Assessment Procedure: _____ Annex II, ___ Annex III, ____ Annex IV

2014/53/EU: LVD (Sec 3.1a): EN60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

EN 62311:2008

EMC (Sec 3.1b): EN 301 489-1 V2.1.1

EN 301 489-19: V2.1.0

RF (Sec 3.2) EN 301 511:V9.0.2, V12.5.1

EN 301 908-1:V6.2.1, V11.1.1

Michael Canton

EN 301 908-2 V11.1.2 EN 303 413: V1.1.1

2011/65/EU: EN 50581:2012

Notified Body Name: TUV SUD BABT Notivfied Body Number: 0168

Examination Certificate #: BABT-RED000457 i01.01

Signature:

Name: Michael Caruthers Title: Engineering Manager

Place: Peoria, IL Date: 21mar2019

Illustration 4 g06410059

i08009767

Product Link (PL542V2- If Equipped)

SMCS Code: 7490; 7606

S/N: PL51–Up

NOTICE

The transmission of information using a Cat 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 Cat Product Link communication device must be limited to those locations where all legal requirements for the use of the Cat Product Link communication device and communication network have been satisfied.

If equipment outfitted with the Cat 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.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

A WARNING

This equipment is equipped with a Cat® 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.

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

Table 12

Radio Transmitter Specifications		
Model	Transmitter Frequency Range	Transmitter Power
	698 MHz - 716 MHz	
	704 MHz - 716 MHz	
	703 MHz - 748 MHz	
	815 MHz - 830 MHz	0.5W typical, 2W max
	824 MHz - 849 MHz	
PI 542V2	880 MHZ - 915 MHz	
PL342V2	1710 MHz - 1755 MHz	
	1710 MHz - 1785 MHz	
	1750 MHz - 1785 MHz	
	1850 MHz - 1910 MHz	
	1920 MHz - 1980 MHz	
	2500 MHz - 2570 MHz	

Table 13

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Current Draw Range
PL542V2	9–32V	850mA-225mA

Certification Notice

Canada Notice to Users

This device complies with Industry Canada 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.

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 FCC Part 22, Part 24, and 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.

Certification Markings

Thailand – This telecommunication equipment conforms to NTC technical requirement



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PL542V2 product description in the EAEU: Telematic radio equipment based on cellular communication Product Link Cat brand, model PL542V2.

21

Declaration of Conformity - European Union

Table 14

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 Street Peoria, IL 61629 USA hereby declares that the product: Product Link, PL542V2, Telematics Device Brand: Caterpillar Model: PL542V2 Antenna Part #: Internal Part Number: 555-5511 Is in conformity with the relevant Union harmonization legislation: Directive 2014/53/EU Directive 2011/65/EU Directive 2014/30/EU Conformity is shown by compliance with the applicable requirements of the following documents: Conformity Assessment Procedure: ___X___ Annex II, __ ____ Annex III, Annex IV 2014/53/EU: LVD (Sec 3.1a): EN62368-1:2014/AC:2015 EN62311:2008 EMC (Sec 3.1b) EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 EN 301 489-19 V2.1.1 EN 301 489-52 V1.1.0 EN 13309:2010 EN 14982:2009 EN 55035:2017 RF (Sec 3.2) EN 300 328 V2.1.1 EN 303 413 V1.1.1 EN 301 511 V12.5.1

Michael Coult

2011/65/EU RoHS

Signature:

Name: Michael Caruthers Title: Engineering Manager

EN 301 908-1 V11.1.1 EN 301 908-2 V11.1.2 EN 301 908-13 V11.1.2

EN 50581:2012

Place: Peoria, IL Date: 29aug2019

Illustration 5 g06474365 i08023187

Product Link (PLE602P - If Equipped)

SMCS Code: 7490; 7606

S/N: PL61-Up

MARNING

Care must be taken in handling lithium batteries.

Lithium batteries are not a serviceable part.

Personal injury can result from battery exploding.

Caution must be used because there is risk of an explosion if the battery is replaced by an incorrect type.

Do not dispose of battery or batteries in a fire. The battery is capable of exploding and emitting caustic chemicals.

Dispose of used batteries according to federal and local laws.

NOTICE

The transmission of information using a Cat 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 Cat Product Link communication device must be limited to those locations where all legal requirements for the use of the Cat Product Link communication device and communication network have been satisfied.

If equipment outfitted with the Cat 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.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

WARNING

This equipment is equipped with a Cat® 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.

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

Table 15

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Current Draw
PLE602P	9–32V	653mA - 330mA

Certification Notices

Canada Notice to Users

This device complies with Industry Canada 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.

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.

Certification Markings

EHC

EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PLE602P product description in the EAEU: Module for the reception-transmission of data from sensors, Cat brand, model PLE602P.

i08219661

Product Link

(PL161 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL11–Up

⚠ WARNING

Care must be taken in handling lithium batteries.

Lithium batteries are not a serviceable part.

Personal injury can result from battery exploding.

Caution must be used because there is risk of an explosion if the battery is replaced by an incorrect type.

Do not dispose of battery or batteries in a fire. The battery is capable of exploding and emitting caustic chemicals.

Dispose of used batteries according to federal and local laws.

NOTICE

The transmission of information using a Cat 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 Cat Product Link communication device must be limited to those locations where all legal requirements for the use of the Cat Product Link communication device and communication network have been satisfied.

If equipment outfitted with the Cat 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.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

⚠ WARNING

This equipment is equipped with a Cat® 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.

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

Table 16

Radio Transmitter Specifications			
Model Transmitter Frequency Range		Transmitter Power	
PL161	2.4 GHz - 2.48 GHz	2.5 mW	

Table 17

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Current Draw Range
PL161	3.6V (Internal Battery)	32mA

Certification Notices

Canada Notice to Users

This device complies with Industry Canada 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.

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.

Certification Markings

Argentina - CNC ID: C-20967

Botswana – BTARegistered No: BOCRA/TA/2018/

China - CM IIT ID: 2017 DJ49 92

Ghana - NCA Approved: 1R3-1M-7E1-15D

Indonesia - 52 84 6/SDPPI/20173130

Jamaica – This product contains a Type Approved Module by Jamaica : SMA – PL161

Jordan - TRC/LPD/2017/568

Mauritania – Approved by the ARE of MauritaniaAgreement Number: 0462/ARE/ 2018Date of Agreement: 09/01/2018

Nigeria – Connection and use of this communications equipment is permitted by the Nigerian Communications Commission

Qatar – ict Qatar Type Approval reg.No:CRA/SA/ 2017/R-6432

Singapore – Complies with IMDA StandardsDA106210

Thailand – This telecommunication equipment conforms to NTC technical requirement

UAE (United Arab Emirates) – TRAREGISTERED No: ER57063/17 DEALER No: DA0130583/14



Taiwan



Zambia - ZMB / ZICTA / TA / 2018 / 2 / 45



Australia



New Zealand - R-NZ



Brazil - Approval No. 07077-17-07855



Chad – Approved by the ARCEP of ChadApproval No. 11 8/ARCEP/DG/DRN/SA/2017



Hong Kong – Certificate Number: HK0021800054



Japan - R 00 1-A11 450



Malaysia – Certification Number: CIDF17000122



Mexico - IFT: RCPCAPL 17-11 89



Pakistan – TAC No: 9.704 / 2018Approved by PTA



Paraguay



Saudi Arabia - TA 2018 - 1922



Philippines – 1816239C



South Africa – TA-2017/1878



South Korea - R-CRM-CTU-PL1 61



Serbia - "И" 0 05 17

Declaration of Conformity - European Union

Table 18

26

CATERPILLAR ®
EU Declaration of Conformity

	EU Declaration of Confe	ormity
This Declaration of Conformity is issued under	r the sole responsibility of the man	ufacturer.
The undersigned, representing the manufactu	rer:	
CATERPILLAR INC		
100 N.E. Adams Street		
Peoria, IL 61629		
USA		
hereby declares that the product, object of this	description:	
Product Link PL161 Telematics Device		
Brand: Caterpillar	Model#: PL161	
Antenna Part #: Internal	Part Number: 503 - 2958	
Is in conformity with the relevant Union harmo	nization legislation:	
Directive 2014/53/EU		
Directive 2011/65/EU		
Conformity is shown by compliance with the a	pplicable requirements of the follo	wing documents:
Conformity Assessment Procedure:X	Annex II, Annex III,	Annex IV
2014/53/EU: RED	LVD (Sec 3.1a):	EN62368-1:2014/AC:2015
	EMC (Sec 3.1b):	EN 301 489-1 V2.2.0
		EN 301 489-17 V3.2.0
	RF (Sec 3.2)	EN 300 328 V2.2.1
2011/65/EU: RoHS		EN 50581:2012
		Title: Product Manager
Signature: Muchael Care		Title. Floudet Manager
Name: Michael Caruthers		Place: Peoria, IL
		Date: 19jun2020
llustration 6		g06591273

27

SEBU8832-24

i08222269

Product Link (PL241 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL21-Up

NOTICE

The transmission of information using a Cat 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 Cat Product Link communication device must be limited to those locations where all legal requirements for the use of the Cat Product Link communication device and communication network have been satisfied.

If equipment outfitted with the Cat 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.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

A WARNING

This equipment is equipped with a Cat® 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.

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

Table 19

Radio Transmitter Specifications			
Model	Transmitter Power		
PL241	824 MHz - 849 MHz		
	880 MHZ - 915 MHz	0.51477	
	1710 MHz - 1755 MHz	0.5W typical, 2W max	
	1850 MHz - 1910 MHz	ZVVIIIdX	
	1920 MHz - 1980 MHz		

Table 20

Operating Voltage and Current Draw		
Model Voltage Range		Maximum Current Draw Range
PL241	9–32V	1.5A-400mA

Certification Notices

Canada Notice to Users

This device complies with Industry Canada 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.
- This radio transmitter, IC: 5131A-HE910, has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.
- This device has been designed to operate with the antenna(s) listed below, and having a maximum gain of 3.31 dBi. Antennas not included in this list or having a gain greater than 3.31 dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

Antennas for use:

- 443-8460 Antenna As Hard Mount
- 443-8462 Antenna As Hard Mount
- 443-8463 Antenna As Adhesive Mount
- 558-6550 Antenna As Hard Mount
- 558-6551 Antenna As Adhesive Mount

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.

Certification Markings



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PL241 product description in the EAEU: Telematic radio equipment based on cellular Product Link Cat brand, model PL241.

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Declaration of Conformity - European Union

Table 21

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 Street Peoria, IL 61629 USA hereby declares that the product, object of this description: Product Link, PL241, Cellular Radio Telematics Device, Brand: Caterpillar Model: PL241 Part Number: 444-9619 Antenna Part Number: 443-8463, 443-8462, 443-8460, 558-6550, 558-6551 Is in conformity with the relevant Union harmonization legislation: Directive 2014/53/EU Directive 2011/65/EU Conformity is shown by compliance with the applicable requirements of the following documents: __ Annex III, __ Conformity Assessment Procedure: ___X__ Annex II, ___ Annex IV 2014/53/EU: LVD (Sec 3.1a): EN 62368-1:2014/AC:2015 EN 62311:2008 EMC (Sec 3.1b): EN 301 489-1 V2.1.1 EN 301 489-19 V2.1.0 EN 301 489-52 V1.1.0 RF (Sec 3.2) EN 301 511 V12.5.1 EN 301 908-1 V11.1.1 EN 301 908-2 V11.1.2 EN 300 440 V2.1.1 EN 303 413 V1.1.1 2011/65/EU: RoHS EN 50581:2012

Title: Product Manager Signature:

Place: Peoria, IL Name: Michael Caruthers

Date: 04aug2020

Illustration 7 g06591356 i08222316

Product Link (PL542 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL51–Up

NOTICE

The transmission of information using a Cat 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 Cat Product Link communication device must be limited to those locations where all legal requirements for the use of the Cat Product Link communication device and communication network have been satisfied.

If equipment outfitted with the Cat 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.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

A WARNING

This equipment is equipped with a Cat® 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.

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

Table 22

Radio Transmitter Specifications			
Model Transmitter Frequency Range		Transmitter Power	
PL542	824 MHz - 849 MHz	0.5W typical, 2W max	
	880 MHZ - 915 MHz		
	1710 MHz - 1755 MHz		
	1850 MHz - 1910 MHz	211 max	
	1920 MHz - 1980 MHz		

Table 23

Operating Voltage and Current Draw		
Model Voltage Range		Maximum Current Draw Range
PL542	9–32V	850mA-225mA

Certification Notice

Canada Notice to Users

This device complies with Industry Canada 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.

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 FCC Part 22, Part 24, and 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.

Certification Markings

Benin – Approved by the ACEP of Benin Approval No: 168/ARCEP/SE/DR/DAJRC/GU/2018 Date of Agreement: 05 Sep 2018

Mauritania – Approved by the ARE of Mauritania. Approval No: 0515/ARE2018. Date of Agreement: 07/06/2018.

Nigeria – Connection and use of this communications equipment is permitted by the Nigerian Communications Commission

Thailand – This telecommunication equipment conforms to NTC technical requirement



Chad – Approved by the ARCEP of Chad. Approval Number: 57/ARCEP/DG/DRN/SAI/2018. Date of Agreement: 31/

05/18



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PL542 product description in the EAEU: Telematic radio equipment for construction machinery based on cellular communication Product Link Cat brand, model PL542.

Declaration of Conformity - European Union

Table 24

32

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 Street Peoria, IL 61629 USA

hereby declares that the product: Product Link, PL542, Telematics Device

Brand: Caterpillar Model: PL542
Antenna Part #: Internal Part #: 515 - 7080

Is in conformity with the relevant Union harmonization legislation:

Conformity Assessment Procedure: X Annex II, Annex III,

Directive 2014/53/EU Directive 2011/65/EU

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

2014/53/EU: LVD (Sec 3.1a): EN62368-1:2014/AC:2015

RF (Sec 3.2)

EN62311:2008

EMC (Sec 3.1b) EN 301 489-1 V2.1.1

EN 301 489-17 V3.1.1
EN 301 489-19 V2.1.1
EN 301 489-52 V1.1.0
EN 13309:2010
EN 14982:2009
EN 55035:2017
EN 300 328 V2.1.1
EN 303 413 V1.1.1
EN 301 511 V12.5.1
EN 301 908-1 V11.1.1

EN 301 908-2 V11.1.2

2011/65/EU RoHS EN 50581:2012

Signature: Mishal Caralt

Name: Michael Caruthers Title: Product Manager

Place: Peoria, IL Date: 07oct2020

| Illustration 8 | g06606024

i08222411

Product Link (PL671 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL61-Up

NOTICE

The transmission of information using a Cat 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 Cat Product Link communication device must be limited to those locations where all legal requirements for the use of the Cat Product Link communication device and communication network have been satisfied.

If equipment outfitted with the Cat 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.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

A WARNING

This equipment is equipped with a Cat® 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.

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

Table 25

Voltage and Current Draw		
Model Voltage Range		Current Draw
PL671	9VDC - 32VDC	1000mA - 300mA

Table 26

Wifi Transmitter			
Model	Frequency	Power	
PL671	2.402GHz - 2.480GHz	41mW Average 85mW Max	
	5.170GHz - 5.835GHz ⁽¹⁾	85mW Average ⁽¹⁾ 308mW Max ⁽¹⁾	

(1) May be restricted depending on country regulations

Table 27

Machine to Machine Transmitter			
Model Frequency Power Range			Range
PL671	5.795GHz - 5.835GHz ⁽¹⁾		300m ⁽²⁾
	5.850GHz - 5.925GHz ⁽¹⁾	308mW Max ⁽¹⁾	

(1) May be restricted depending on country regulations

(2) Line of Sight

Certification Notices

Brazil

This equipment is not entitled to harmful interference protection and may not cause interference to duly authorized systems.

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.

Mexico

Operation of this equipment is subject to the following two conditions:

- It is possible that this equipment or device may not cause harmful interference
- This equipment or device must accept any interference, including interference that may cause undesired operation.

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.

Declaration of Conformity - European Union

Table 28

CATERPILLAR ®
EU Declaration of Conformity

EU Deciaration	of Conformity
r the sole responsibility of	the manufacturer.
ırer:	
s description:	
)	
Model: PL671	
nization legislation:	
mization logislation.	
pplicable requirements of	the following documents:
Annex II, Annex III	,Annex IV
LVD (Sec 3.1a):	EN 60950-1:2005 (2nd Edition) + Am 1:2009 + Am 2:2013
	EN 60950-22 (2nd Edition)
	EN 60529 (2.2 Edition) 2013
EMC (Sec 3.1b):	EN 301 489-1 V2.1.1
	EN 301 489-17 V3.1.1
	EN 302 571 V2.1.1
RF (Sec 3.2)	EN 301 893 V2.1.1
	EN 300 328 V2.1.1
	EN 303 413 V1.1.0
RoHS	EN 50581:2012
RoHS	EN 50581:2012
	s description: Model: PL671 Model: PL671

Signature:

Name: Michael Caruthers

Place: Peoria, IL

Title: Engineering Sr. Manager

Date: 20sep2019

Illustration 9 g06494101

i08222525

Product Link (PL243 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL21-Up

WARNING

This equipment is equipped with a Cat® 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.

MARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

⚠ WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

NOTICE

The transmission of information using a Cat 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 Cat Product Link communication device must be limited to those locations where all legal requirements for the use of the Cat Product Link communication device and communication network have been satisfied.

If equipment outfitted with the Cat 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.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

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

Table 29

Radio Transmitter Specifications			
Model	Transmitter Frequency Range	Transmitter Power	
	698 MHz - 716 MHz	0.5W typical, 2W max	
PL243	704 MHz - 716 MHz		
	703 MHz - 748 MHz		
	815 MHz - 830 MHz		
	824 MHz - 849 MHz		
	830 MHz - 845 MHz		
	832 MHz - 862 MHz		
	880 MHz - 915 MHz		
	1710 MHz - 1755 MHz		
	1710 MHz - 1785 MHz		
	1750 MHz - 1785 MHz		
	1850 MHz - 1910 MHz		
	1920 MHz - 1980 MHz		
	2500 MHz - 2570 MHz		

Table 30

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Current Draw Range
PL243	9–32V	225mA - 120mA

Certification Notices

Canada Notice to Users

This device complies with Industry Canada 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.

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.

Certification Markings

Brazil – The radio is designed for use in industrial and commercial installations by trained and qualified professionals, not for domestic use.



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PL243 product description in the EAEU: Telematic Radio equipment Cat brand, model PL243.

Thailand – This telecommunication equipment is in compliance with NBTC requirements

Declaration of Conformity - European Union

Table 31

38

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 Street Peoria, IL 61629 USA hereby declares that the product, object of this description: Product Link, PL243, Cellular Radio Telematics Device, Brand: Caterpillar Model: PL243 Part Number: 550-3269 Antenna Part Number: Internal Is in conformity with the relevant Union harmonization legislation: Directive 2014/53/EU Directive 2011/65/EU Conformity is shown by compliance with the applicable requirements of the following documents: ___ Annex II, ____X__ Annex III, __ Conformity Assessment Procedure: ___ 2014/53/EU: LVD (Sec 3.1a): EN 62368-1:2014/AC:2015 EN 62311:2008 EMC (Sec 3.1b): EN 301 489-1 V2.2.0 EN 301 489-19 V2.1.0 EN 301 489-52 V1.1.0 RF (Sec 3.2) EN 301 511 V12.5.1 EN 301 908-1 V11.1.1 EN 301 908-2 V11.1.1 EN 301 908-13 V11.1.1 EN 303 413 V1.1.1 2011/65/EU: RoHS EN 50581:2012 Notified Body Name: CETECOM GmbH Notified Body Number: 0680 Examination Certificate #: M19-0706-02-TEC

Michael Canth **Title: Engineering Manager** Signature:

Place: Peoria, IL Name: Michael Caruthers

Date: 16jun2020

g06591607 Illustration 10

Product Link

(PL083 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL01–Up

WARNING

This equipment is equipped with a Cat® 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.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Internal battery is not a serviceable component.

Do not remove or replace the internal battery unless external power has been disconnected or the area is free of ignitable concentrations.

WARNING

Explosion Hazard!

Connecting or disconnecting a live device in an area with volatile or flammable gases may cause an explosion resulting in serious injury or death.

Do not disconnect the device unless external power has been disconnected or unless the area is free of ignitable concentrations.

NOTICE

The transmission of information using a Cat 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 Cat Product Link communication device must be limited to those locations where all legal requirements for the use of the Cat Product Link communication device and communication network have been satisfied.

If equipment outfitted with the Cat 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.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

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

Table 32

Specifications		
Model	Transmitter Frequency Range	Transmitter Power
	1616 MHz - 1625.5 MHz	5.1W max
	698 MHz - 716 MHz	
	704 MHz - 716 MHz	
	703 MHz - 748 MHz	
	815 MHz - 830 MHz	
	824 MHz - 849 MHz	
	830 MHz - 845 MHz	
PL083	832 MHz - 862 MHz	0.5W typical,
	880 MHz - 915 MHz	2W max
	1710 MHz - 1755 MHz	
	1710 MHz - 1785 MHz	
	1750 MHz - 1785 MHz	
	1850 MHz - 1910 MHz	
	1920 MHz - 1980 MHz	
	2500 MHz - 2570 MHz	

Table 33

Specifications — Russia Specific		
Model	Transmitter Frequency Range	Transmitter Power Average
PL083	1621.35 MHz - 1626.5 MHz	2.3W

Table 34

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Current Draw Range
PL083	9–32V	750mA - 400mA

Certification Notices

Canada Notice to Users

This device complies with Industry Canada 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.

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.

Certification Markings

Brazil – The radio is designed for use in industrial and commercial installations by trained and qualified professionals, not for domestic use.



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PL083 product description in the EAEU: Telematic equipment Cat brand, model PL083.

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Declaration of Conformity - European Union

Table 35

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 Street

Peoria, IL 61629

USA

hereby declares that the product, object of this description:

Product Link, PL083, Dual Mode (Cellular/Satellite) Radio Telematics Device

Brand: Caterpillar Model: PL083

Part Number: 545-3987 Antenna Part Number: Internal

Is in conformity with the relevant Union harmonization legislation:

Directive 2014/53/EU Directive 2011/65/EU

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

Conformity Assessment Procedure: _____ Annex II, ____X __ Annex III, ____Annex IV

2014/53/EU: LVD (Sec 3.1a): EN 62368-1:2014/AC:2015

EN 62311:2008

EMC (Sec 3.1b): EN 301 489-1 V2.2.0

EN 301 489-19 V2.1.0 EN 301 489-20 V2.1.0 EN 301 489-52 V1.1.0

RF (Sec 3.2) EN 301 441 V2.1.1

EN 303 413 V1.1.1 EN 301 511 V12.5.1 EN 301 908-1 V11.1.1 EN 301 908-2 V11.1.1 EN 301 908-13 V11.1.1

2011/65/EU: RoHS EN 50581:2012

Notified Body Name: CETECOM GmbH

Notified Body Number: 0680

Examination Certificate #: M19-0716-03-TEC

Signature: Michael Caroller Title: Product Manager

Name: Michael Caruthers Place: Peoria, IL

Date: 16jun2020

Illustration 11 g06591638

Product Link (PL631V2 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL61-Up

NOTICE

The transmission of information using a Cat 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 Cat Product Link communication device must be limited to those locations where all legal requirements for the use of the Cat Product Link communication device and communication network have been satisfied.

If equipment outfitted with the Cat 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.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

A WARNING

This equipment is equipped with a Cat® 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.

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

Table 36

Transmitter Specifications		
Model Transmitter Frequency Transmitter Range Power		
PL631V2	1616 MHz - 1626.5 MHz	5.1W max

Table 37

Transmitter Specifications - Russia		
MODEL		Transmitter Power
PL631V2	1621.35 MHz - 1626.5 MHz	2.16 dBW

Table 38

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Current Draw Range
PL631V2	9–32V	2.0A -1.3A

Certification Notices

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.
- This radio transmitter, IC: 4629A-9523N, has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.
- This device has been designed to operate with the antenna(s) listed below, and having a maximum gain of 3 dBi. Antennas not included in this list or having a gain greater than 3 dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

Antennas for use:

- · 443-8462 Antenna As Hard Mount
- 443-8463 Antenna As Adhesive Mount
- 558-6550 Antenna As Hard Mount
- 558-6551 Antenna As Adhesive Mount

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.

Certification Markings



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PL631V2 product description in the EAEU: Telematic Equipment, Cat brand, model PL631V2.

Declaration of Conformity - European Union

Table 39

CATERPILLAR ® EU Declaration of Conformity

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

The Book at the Committy to located a	inder the deleted periodemity of the f	nanalaotaloi.
The undersigned, representing the manuf	acturer:	
CATERPILLAR, Inc.		
100 N.E. Adams Street		
Peoria, IL 61629		
USA		
hereby declares that the product, object o	f this description:	
Product Link, PL631V2, Satellite Radio Te	elematics Device	
Brand: Caterpillar	Model: PL631V2	
Part #: 544 - 1881		
Antenna Part #:443-8463, 443-8462, 5	58-6550, 558-6551	
Is in conformity with the relevant Union had Directive 2014/53/EU Directive 2011/65/EU	Ü	
Conformity is shown by compliance with the	he applicable requirements of the f	following documents:
Conformity Assessment Procedure:	Annex II,X Annex III, _	Annex IV
2014/53/EU:	LVD (Sec 3.1a):	EN 62368-1:2014
		EN 62311:2008
	EMC (Sec 3.1b):	EN 301 489-1 V2.2.0
		EN 301 489-19 V2.1.0
		EN 301 489-20 V2.1.0
	RF (Sec 3.2)	EN 301 441 V2.1.1
		EN 303 413 V1.1.1
2011/65/EU:	RoHS	EN 50581:2012
Notified Body Name: TUV SUD BABT		
Notified Body Number: 0168		

Signature: Michael Carolle

Examination Certificate #: BABT-RED000351 i02

Name: Michael Caruthers Place: Peoria, IL

Date: 13jul2020

Title: Product Manager

Illustration 12 g06596218

45

SEBU8832-24

i08233884

Product Link (PL641 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL61–Up

NOTICE

The transmission of information using a Cat 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 Cat Product Link communication device must be limited to those locations where all legal requirements for the use of the Cat Product Link communication device and communication network have been satisfied.

If equipment outfitted with the Cat 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.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

A WARNING

This equipment is equipped with a Cat® 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.

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

Table 40

Radio Transmitter Specifications		
Model	Transmitter Frequency Range	Transmitter Power
	824 MHz - 849 MHz	0.5W typical, 2W max
PL641	880 MHZ - 915 MHz	
	1710 MHz - 1755 MHz	
	1850 MHz - 1910 MHz	
	1920 MHz - 1980 MHz	

Table 41

Operating Voltage and Current Draw		
		Maximum Current Draw Range
PL641	9–32V	750mA-225mA

Certification Notices

Canada Notice to Users

This device complies with Industry Canada 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.
- This radio transmitter, IC: 7830A-PXS8, has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.
- This device has been designed to operate with the antenna(s) listed below, and having a maximum gain of 2.5 dBi. Antennas not included in this list or having a gain greater than 2.5 dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

Antennas for use:

- 443-8460 Antenna As Hard Mount
- · 443-8462 Antenna As Hard Mount
- 443-8463 Antenna As Adhesive Mount
- 558-6550 Antenna As Hard Mount
- 558-6551 Antenna As Adhesive Mount

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.

Certification Markings



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PL641 product description in the EAEU: Telematic radio equipment Cat brand, model PL641.

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Declaration of Conformity - European Union

Table 42

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 Street

Peoria, IL 61629

USA

hereby declares that the product, object of this description:

Product Link, PL641, Cellular Radio Telematics Device,

Brand: Caterpillar Model: PL641

Part #: 440 - 2104, 440 - 2105

Antenna Part #: 440 - 2104 uses Internal Antenna

Antenna Part #: 440-2105 can use 443-8463, 443-8462, 443-8460, 558-6550, 558-6551

Is in conformity with the relevant Union harmonization legislation:

Directive 2014/53/EU Directive 2011/65/EU

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

Conformity Assessment Procedure: _____ Annex II, ____ X__ Annex III, _____ Annex IV

2014/53/EU: LVD (Sec 3.1a): EN 62368-1:2014

EN 62311:2008

EMC (Sec 3.1b): EN 301 489-1 V2.1.1

EN 301 489-19 V2.1.1 EN 301 489-52 V1.1.0

RF (Sec 3.2) EN 301 511 V12.5.1

EN 300 440 V2.1.1 EN 301 908-1 V11.1.1 EN 301 908-2 V11.1.1 EN 303 413 V1.1.0

2011/65/EU: RoHs EN 50581:2012

Notified Body Name: TUV SUD BABT

Notified Body Number: 0168

Examination Certificate #: BABT-RED000353 i01.01

Signature: Michael Carolle Title: Product Manager

Name: Michael Caruthers Place: Peoria, IL

Date: 13jul2020

Illustration 13 g06596218

Product Link (PL641V2 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL61–Up

NOTICE

The transmission of information using a Cat 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 Cat Product Link communication device must be limited to those locations where all legal requirements for the use of the Cat Product Link communication device and communication network have been satisfied.

If equipment outfitted with the Cat 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.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

A WARNING

This equipment is equipped with a Cat® 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.

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

Table 43

Radio Transmitter Specifications		
Model	Transmitter Frequency Range	Transmitter Power
	698 MHz - 716 MHz	
	704 MHz - 716 MHz	
	703 MHz - 748 MHz	
	815 MHz - 830 MHz	
	824 MHz - 849 MHz	0.5W typical,
	830 MHz - 845 MHz	
PL641V2	832 MHz - 862 MHz	
PL041V2	880 MHz - 915 MHz	2W max
	1710 MHz - 1755 MHz	
	1710 MHz - 1785 MHz	
	1750 MHz - 1785 MHz	
	1850 MHz - 1910 MHz	
	1920 MHz - 1980 MHz	
	2500 MHz - 2570 MHz	

Table 44

Operating Voltage and Current Draw		
Model	Voltage Range	Maximum Current Draw Range
PL641V2	9–32V	750mA - 225mA

Certification Notices

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.
- This radio transmitter, 7830A-PLS62W, has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.
- This device has been designed to operate with the antenna(s) listed below, and having a maximum gain of 8 dBi. Antennas not included in this list or having a gain greater than 8 dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

Antennas for use:

558-6550 Antenna As Hard Mount

558-6551 Antenna As Adhesive Mount

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.

Certification Markings

Brazil – The radio is designed for use in industrial and commercial installations by trained and qualified professionals, not for domestic use.



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PL641V2 product description in the EAEU: Telematic Radio Equipment Cat brand, Model PL641V2.

Thailand – This telecommunication equipment is in compliance with NBTC requirements.

Declaration of Conformity - European Union

Table 45

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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 Street Peoria, IL 61629

USA

hereby declares that the product, object of this description:

Product Link, PL641V2, Cellular Radio Telematics Device,

Brand: Caterpillar Model: PL641V2

Part #: 555 - 5509, 555 - 5510 Antenna Part #: 558 - 6550, 558 - 6551

Is in conformity with the relevant Union harmonization legislation:

RF (Sec 3.2):

2011/65/EU: RoHs:

Directive 2014/53/EU Directive 2011/65/EU

EMC (Sec 3.1b):

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

Conformity Assessment Procedure: _____ Annex II, ____ X__ Annex III, ____ Annex IV

2014/53/EU: LVD (Sec 3.1a): EN 62368-1:2014

EN 62311:2008

EN 55032:2015 EN 55035:2017

EN 301 489-1 V2.2.0 EN 301 489-19 V2.1.0 EN 301 489-52 V1.1.0 EN 301 511 V12.5.1

EN 301 511 V12.5.1 EN 301 908-1 V11.1.1 EN 301 908-2 V11.1.1 EN 301 908-13 V11.1.1

> EN 303 413 V1.1.1 EN 50581:2012

Notified Body Name: CETECOM GmbH

Notified Body Number: 0680

Examination Certificate #: M18-0588-01-TEC

Signature: Michael Caroller Title: Product Manager

Name: Michael Caruthers Place: Peoria, IL

Date: 13jul2020

Illustration 14 g06596218

Product Link (PL240 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL21-Up

NOTICE

The transmission of information using a Cat 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 Cat Product Link communication device must be limited to those locations where all legal requirements for the use of the Cat Product Link communication device and communication network have been satisfied.

If equipment outfitted with the Cat 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.

Reference: Refer to the Operation and Maintenance Manual of your product for additional information.

Specifications

A WARNING

This equipment is equipped with a Cat® 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.

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

Table 46

Radio Transmitter Specifications			
Model Transmitter Frequency Range		Transmitter Power	
	824 MHz - 849 MHz	0.5W typical,	
	880 MHZ - 915 MHz		
PL240	1710 MHz - 1755 MHz		
	1850 MHz - 1910 MHz	ZVVIIIdX	
	1920 MHz - 1980 MHz		

Table 47

Operating Voltage and Current Draw		
Model Voltage Range M		Maximum Current Draw Range
PL240	9–32V	250mA-200mA

Certification Notices

Canada Notice to Users

This device complies with Industry Canada 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.

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

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- 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.

Certification Markings

Costa Rica - FCC mark

Nigeria – Connection and use of this communications equipment is permitted by the Nigerian Communications Commission

Qatar – ictQATAR. Type Approval reg. No:CRA/SA/ 2016/R-5433

Singapore – Complies with IMDA Standards. Dealer License: DB105771

Thailand – This telecommunication equipment conforms to NTC technical requirement

UAE (United Arab Emirates) – TRA Registered No: ER47254/16. Dealer No. DA130583/14



Australia - E401



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PL240 product description in the EAEU: Telematic radio equipment based on cellular Product Link Cat brand, model PL240, PL240B.



Hong Kong - US0021800013

Indonesia - 49587/SDPPI/20173130



Japan - R 003-160123T 0160071003



New Zealand - R-NZ E401



Philippines – NTCType ApprovedNo. ESD-CPE-1703322



Ukraine - 028

Date: 24aug2020

Declaration of Conformity - European Union

Table 48

Name: Michael Caruthers			Place: Peoria, IL
Signature: Multul Ca	and the same of th		Title: Product Manager
2011100120.	1.0110	LIV 00001.2012	
2011/65/EU:	RoHS	EN 50581:2012	
		EN 303 413 V1.1.1	
		EN 301 908-1 V11.1.1 EN 301 908-2 V11.1.2	
	M ⁻ (360 3.2)	EN 301 511 V12.5.1	
	RF (Sec 3.2)	EN 301 489-52 V1.1.0	
		EN 301 489-19 V2.1.0	
	EMC (Sec 3.1b):	EN 301 489-1 V2.1.1	
	EMC (Soc 3 1b):	EN 62311:2008	
2014/53/EU:	LVD (Sec 3.1a):	EN 62368-1:2014	
Conformity is shown by compliance with Conformity Assessment Procedure:		ŭ	
Directive 2011/03/EU			
Directive 2014/53/EU Directive 2011/65/EU			
Is in conformity with the relevant Union h	armonization legislation:		
la in a suffamulik width the malayaret by the best	anno animatica de miedatica.		
Antenna Part #: Internal	Part Number: 505 - 6727, 5	26-3054	
Brand: Caterpillar	Model: PL240		
Product Link, PL240, Cellular Radio Tele	ematics Device		
hereby declares that the product, object	of this description:		
USA			
Peoria, IL 61629			
100 N.E. Adams Street			
CATERPILLAR INC			
The undersigned, representing the manu	ufacturer:		
Social and of Comorning to Issued	and a solo respondibility of the		
This Declaration of Conformity is issued		•	
	EU Declaration of (

Illustration 15 g06591755

Product Link (PL631 - If Equipped)

SMCS Code: 7490; 7606

S/N: PL61-Up

NOTICE

The transmission of information using a Cat ® 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 Cat Product Link communication device must be limited to those locations where all legal requirements for the use of the Cat Product Link communication device and communication network have been satisfied.

If equipment outfitted with the Cat 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.

Reference: Refer to the Operation and Maintenance Manual for your product for additional information.

Specifications

A WARNING

This equipment is equipped with a Cat® 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.

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

Table 49

Specifications		
Model Transmitter Frequency Range		Transmitter Power
PL631	1616 MHz - 1626.5 MHz	5.1W max

Table 50

Specifications — Russia Specific		
Model	Transmitter Frequency Range	Transmitter Power Average
PL631	1621.35 MHz - 1626.5 MHz	2.16 dBW

Table 51

Operating Voltage and Current Draw		
Model Voltage Range Maximum Current Drav		Maximum Current Draw Range
PL631	9–32V	2.0A -1.3A

Certification Notices

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.
- This radio transmitter, IC: 4629A-9523, has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.
- This device has been designed to operate with the antenna(s) listed below, and having a maximum gain of 3 dBi. Antennas not included in this list or having a gain greater than 3 dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

Antennas for use:

- · 443-8462 Antenna As Hard Mount
- 443-8463 Antenna As Adhesive Mount
- 558-6550 Antenna As Hard Mount
- 558-6551 Antenna As Adhesive Mount

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.

Certification Markings



EAEU – (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)

The PL631 product description in the EAEU: Telematic equipment Cat brand, model PL631.

Declaration of Conformity - European Union

Table 52

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CATERPILLAR ® EU Declaration of Conformity

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

This Bediaration of Comornity is issued to	inder the sole responsibility of the mi	andiacturer.
The undersigned, representing the manuf	facturer:	
CATERPILLAR, Inc.		
100 N.E. Adams Street		
Peoria, IL 61629		
USA		
hereby declares that the product, object of	of this description:	
Product Link, PL631, Cellular Radio Teler	natics Device	
Brand: Caterpillar	Model: PL631	
Part #: 442 - 7199		
Antenna Part #:443 - 8463, 443 - 8462, 5	58-6550, 558-6551	
Is in conformity with the relevant Union ha	armonization legislation:	
Directive 2014/53/EU		
Directive 2011/65/EU		
Conformity is shown by compliance with t	he applicable requirements of the fo	llowing documents:
Conformity Assessment Procedure:	Annex II,X Annex III,	Annex IV
2014/53/EU:	LVD (Sec 3.1a):	EN 62368-1:2014
		EN 62311:2008
	EMC (Sec 3.1b):	EN 301 489-1 V2.2.0
		EN 301 489-19 V2.1.0
		EN 301 489-20 V2.1.0
	RF (Sec 3.2)	EN 301 441 V2.1.1
		EN 303 413 V1.1.1
2011/65/EU:	RoHS	EN 50581:2012
Notified Body Name: TUV SUD BABT		
Natified Dady Novelean 0400		

Notified Body Number: 0168

Examination Certificate #: BABT-RED000351 i02

Signature: Title: Product Manager

Name: Michael Caruthers Place: Peoria, IL

Date: 01sep2020

Illustration 16 g06601088

SEBU8832-24

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Product Information Section

Identification Information

i07833783

Manufacturing Information

SMCS Code: 7606

Product Information

Entity authorized by the manufacturer at the territory of Eurasian Economic Union:

Caterpillar Eurasia LLC.

75, Sadovnicheskaya Emb.

Moscow, 115035, Russia

Phone: +7 (495) 2133340, Fax: +7 (495) 2133372,

email: cat_moscow@cat.com

Manufacturer: Caterpillar Inc.

100 NE Adams Street Peoria, Illinois 61629 United

States of America

Date of Manufacture

Markings on the device and or package contain information about the date of manufacture, or a link to the source of this information. If required, the date of manufacture can be obtained by the serial number of the product, by contacting your authorized dealer.

Term and Conditions of Storage and Transportation

The product is packed in consumer packaging of manufacturer. The product should be stored in the factory packing and storage conditions for climatic factors of Group 4 in accordance with GOST 15150-69. When loading and transportation requirements on warning labels on the boxes must be followed, shocks and bumps that can affect the appearance and performance of the device should not be allowed.

Transportation can be done by all kinds of covered transport vehicles. When transporting by air, ensure that the Product Linkdevice is transported in a sealed heated compartment.

Actions In Case of Technical Failures

Before calling to the dealer for repair, the integrity of the electric wires, and cycle the battery power to the device. Cycling battery power can be accomplished by:

- Turn the machines master disconnect off and then back on.
- Unplug the Product Link harness from the machine connector and then plug the harness back in.
- Disconnect the negative cable from the negative battery terminal and then reconnect the cable.

If these solutions do not help, call for service.

Proper Disposal

Proper disposal of devices upon failure is required according to local regulations. This process may be through the warranty return process, reman, or scrap of material.

Operation Section

Operation Section

Operation

i08024860

System Overview

SMCS Code: 7606

Note: Your equipment may be equipped with a Caterpillar Product Link communication device.

The Caterpillar 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 Caterpillar Product Link communication device contains a Global Positioning System (GPS) satellite receiver.

Note: The Product Link PL161 does not contain a GPS receiver.

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

Note: The Product Link PL161 does not support two-way communication.

Note: All Product Link devices with an internal antenna and all devices with an associated transmitting antenna must be located more than 20 cm (7.874 inch) from the machine operator to comply with FCC Regulations for RF human body safety.

Information for the initial installation of the Caterpillar Product Link communication device is available in Special Instruction, REHS7339, Special Instruction, REHS8850, Special Instruction, REHS9111, Special Instruction, SEHS0377, Special Instruction, REHS9757, and Special Instruction, M0077632.

Operation, configuration, and troubleshooting information for the Caterpillar Product Link communication device can be found in the Systems Operation, Troubleshooting, Testing and Adjusting, UENR3697, Systems Operation, Troubleshooting, Testing and Adjusting, UENR5823, Systems Operation, Troubleshooting, Testing and Adjusting, UENR5824, Systems Operation, Troubleshooting, Testing and Adjusting, M0070044, Systems Operation, Troubleshooting, Testing and Adjusting, M0076820, and Systems Operation, Troubleshooting, Testing and Adjusting, UENR6983.

Data Broadcasts

Data concerning this equipment, the condition of the equipment, and the operation of the equipment is being transmitted by the Caterpillar Product Link communication device to Caterpillar and is communicated to customers and Caterpillar dealers by the user interface. The data is used to serve the customer better and to improve upon Caterpillar products and services. The information transmitted may include: equipment serial number, equipment 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 equipment
- Checking or maintaining Product Link system
- Monitoring the health or performance of the equipment
- Helping maintain the equipment and/or improve the efficiency of the equipment
- Evaluating or improving Caterpillar 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.

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Product and Dealer Information

Delivery Date: _____

Note: For product identification plate locations, see the section "Product Identification Information" in the Operation and Maintenance Manual.

_				
Product Information				
Model:				
Product Ide	ntification Number:			
Engine Seri	al Number:			
Transmissio	on Serial Number:			
Generator S	Serial Number:			
Attachment	Serial Numbers:			
Attachment	Information:			
Customer E	quipment Number:			
Dealer Equ	pment Number:			
Dealer	Information			
Name:		Branch:		
Address:				
	Dealer Contact	Phone Number	<u>Hours</u>	
Sales: -				
Parts: -				
Service: -				

