



Operation and Maintenance Manual

Product Link® PLE601, PLE641, PLE631, PLE640, PL641, PL631, PL240, PL241, and G0100 Systems

PL6 1-UP (Machine Control
& Guidance Products)
PL2 1-UP (Machine Control
& Guidance Products)

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.



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

Failure to follow this warning may lead to premature failures, product damage, personal injury or death.

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.

Safety Section

i06692610

Safety Signs and Labels

SMCS Code: 7606

S/N: PL21-99999

S/N: PL61-Up

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.

WARNING

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.

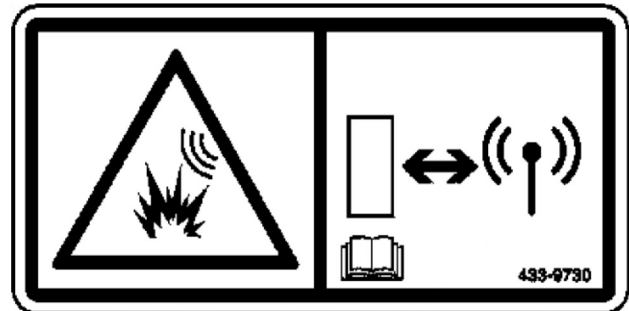


Illustration 1

g03356592

Film

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 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.
- The Product Link PL240 contains an internal battery that cannot be disconnected. Before operating a machine near a blast zone, remove the PL240.

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, and Special Instruction, REHS9757 for more details and installation instructions.

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

S/N: PL21-99999

S/N: PL61-Up

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.

Product Information Section

Identification Information

i06692621

Regulatory Compliance

SMCS Code: 7606

S/N: PL21–99999

S/N: PL61–Up

NOTICE

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

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

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

G0100 Radio Notices

FCC Notice

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

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

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

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

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

Industry Canada Notice to Users

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. Refer to RSS-GEN 7.1.5.

PL631 Radio Notices

FCC Notice

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

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

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

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

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

Industry Canada Notice to Users

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. Refer to RSS-GEN 7.1.5.

PL641 Radio Notices

FCC Notice

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

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

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

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

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

Industry Canada Notice to Users

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. Refer to RSS-GEN 7.1.5.

PL240 Radio Notices

FCC Notice

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

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

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

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

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

Industry Canada Notice to Users

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. Refer to RSS-GEN 7.1.5.

PL241 Radio Notices

FCC Notice

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

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

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

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

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

Industry Canada Notice to Users

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. Refer to RSS-GEN 7.1.5.

PLE601 Network Manager Notices

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.

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Declaration of Conformity

SMCS Code: 7606

S/N: PL21-99999

S/N: PL61-Up

European Union EC Declaration of Conformity G0100

Table 1

CATERPILLAR® EC Declaration of Conformity

The undersigned, representing

CATERPILLAR INC

100 N.E. Adams Street

Peoria, IL 61629

USA

And the authorized representative established within
the Community

CATERPILLAR INC

Alberto JUAREZ-RAMIREZ

Fleet Specialist / Technology Distribution Consultant

EAME DSD- Equipment Management

Tel: 32(0) 71.25.97.03 / Mob: 32(0) 499.85.97.03

Email: juarez-ramirez_alberto@cat.com

Caterpillar Belgium - Bldg A

(continued)

(Table 1, contd)

1, Avenue des Etats-Unis,
BE 6041, Gosselies , Belgium

hereby declares that the product:

Brand: Product Link

Model: G0100

Part Number: 417 - 4723

is in conformity with essential requirements of the following EC Directives

- | | |
|------------|---|
| 1999/5/EC | Radio and Telecommunications Terminal Equipment Directive |
| 2006/95/EC | Low Voltage Directive |
| 2014/30/EC | Electromagnetic Compatibility (ECM) Directive |
| 2011/65/EU | Restriction of certain Hazardous Substances Directive |

and that the standards referenced below have been applied:

- | | |
|--------------------------|-----------------------------|
| EN 60950-1 (ed.2) | EN 301 489-1:V1.8.1: 2008 |
| EN 301 511: v9.0.2 | EN 61000-4-2:2008 |
| EN 300 440-2:V1.4.1:2010 | EN 61000-4-3:2006 |
| EN 55022:2006:A1:2007 | EN 61000-4-6:2008 |
| EN 62311:2008 | CISPR 25 (2nd Edition 2002) |
| EN 13309:2010 | EN 50581:2012 |

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications.

Signed: Vijay Ramasamy

Date: Apr 28, 2016

**European Union EC Declaration of
Conformity PL240**

Table 2

CATERPILLAR®
EC Declaration of Conformity

Product Information Section
Declaration of Conformity

(Table 2, contd)

The undersigned, representing

CATERPILLAR INC

100 N.E. Adams Street

Peoria, IL 61629

USA

And the authorized representative established within
the Community

CATERPILLAR INC

Alberto JUAREZ-RAMIREZ

Fleet Specialist / Technology Distribution Consultant

EAME DSD- Equipment Management

Tel: 32(0) 71.25.97.03 / Mob: 32(0) 499.85.97.03

Email: juarez-ramirez_alberto@cat.com

Caterpillar Belgium - Bldg A

1, Avenue des Etats-Unis,

BE 6041, Gosselies , Belgium

hereby declares that the product:

Brand: Product Link

Model: PL240

Part Number: 505-6727

is in conformity with essential requirements of the following EC Directives

1999/5/EC

Radio and Telecommunications Terminal Equipment Directive

2006/95/EC

Low Voltage Directive

2014/30/EC

Electromagnetic Compatibility (ECM) Directive

2011/65/EU

Restriction of certain Hazardous Substances Directive

as is verified by compliance with the following standards:

EN 60950-1:2006+A2:2013

EN 301 489-1:V1.9.2: 2011

EN 301 511: v9.0.2

EN 301 489-3:V1.4.1:2002

EN 300 440-2:V1.4.1:2010

EN 301 489-7:V1.3.1:2005

EN 301 908-1:V5.2.1 and V6.2.1

EN 301 489-24:V1.5.1:2010

EN 301 908-2:V5.2.1 and V6.2.1

EN ISO 14982:2009

EN 62311:2008

EN 13309:2010

ISO 13766:2006

EN 50581:2012

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications.

Signed: Vijay Ramasamy
Date: Apr 28, 2016

Illustration 4

g06076100

European Union EC Declaration of Conformity PL241

Table 3

CATERPILLAR® EC Declaration of Conformity

The undersigned, representing

CATERPILLAR INC
100 N.E. Adams Street
Peoria, IL 61629
USA

hereby declares that the product:

Brand: Product Link
Model: PL241

And the authorized representative established within
the Community

CATERPILLAR INC
Alberto JUAREZ-RAMIREZ
Fleet Specialist / Technology Distribution Consultant
EAME DSD- Equipment Management
Tel: 32(0) 71.25.97.03 / Mob: 32(0) 499.85.97.03
Email: juarez-ramirez_alberto@cat.com
Caterpillar Belgium - Bldg A
1, Avenue des Etats-Unis,
BE 6041, Gosselies , Belgium

Part Number: 444-9619

is in conformity with essential requirements of the following EC Directives

1999/5/EC	Radio and Telecommunications Terminal Equipment Directive
2006/95/EC	Low Voltage Directive
2014/30/EC	Electromagnetic Compatibility (ECM) Directive
2011/65/EU	Restriction of certain Hazardous Substances Directive

as is verified by compliance with the following standards:

(continued)

Product Information Section
Declaration of Conformity

(Table 3, contd)

EN 60950-1:2006+A2:2013	EN 301 489-1:V1.9.2: 2011
EN 301 511: v9.0.2	EN 301 489-3:V1.4.1:2002
EN 300 440-2:V1.4.1:2010	EN 301 489-7:V1.3.1:2005
EN 301 908-1:V5.2.1 and V6.2.1	EN 301 489-24:V1.5.1:2010
EN 301 908-2:V5.2.1 and V6.2.1	EN ISO 14982:2009
EN 62311:2008	EN 13309:2010
ISO 13766:2006	EN 50581:2012

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications.

Signed:

Vyay Ramasamy

Date:

Apr 28, 2016

Illustration 5

g06076100

European Union EC Declaration of Conformity PL631

Table 4

CATERPILLAR®
EC Declaration of Conformity

The undersigned, representing

CATERPILLAR INC
100 N.E. Adams Street
Peoria, IL 61629
USA

And the authorized representative established within
the Community

CATERPILLAR INC
Alberto JUAREZ-RAMIREZ
Fleet Specialist / Technology Distribution Consultant
EAME DSD- Equipment Management
Tel: 32(0) 71.25.97.03 / Mob: 32(0) 499.85.97.03
Email: juarez-ramirez_alberto@cat.com
Caterpillar Belgium - Bldg A
1, Avenue des Etats-Unis,
BE 6041, Gosselies , Belgium

(continued)

(Table 4, contd)

hereby declares that the product:

Brand: Product Link

Model: PL631

Part Number: 442 - 7199 (external antenna)

is in conformity with essential requirements of the following EC Directives

1999/5/EC	Radio and Telecommunications Terminal Equipment Directive
2006/95/EC	Low Voltage Directive
2014/30/EC	Electromagnetic Compatibility (ECM) Directive
2011/65/EU	Restriction of certain Hazardous Substances Directive

as is verified by compliance with the following standards:

EN 60950-1:2006+A12:2011	EN 300 440-2:V1.4.1
EN 63211:2008	EN 301 441-2:V1.1.1
ISO 13766:2006	EN 301 489-1:V1.9.2
ISO 14982:2009	EN 301 489-20:V1.2.1
ISO 13309:2010	EN 50581:2012

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications.

Signed: Vyay Romasany

Date: Apr 28, 2016

Illustration 6

g06076100

European Union EC Declaration of Conformity PL641

Table 5

CATERPILLAR® EC Declaration of Conformity

The undersigned, representing

CATERPILLAR INC

And the authorized representative established within
the Community

CATERPILLAR INC

(continued)

Product Information Section
Declaration of Conformity

(Table 5, contd)

100 N.E. Adams Street
Peoria, IL 61629
USA

Alberto JUAREZ-RAMIREZ
Fleet Specialist / Technology Distribution Consultant
EAME DSD- Equipment Management
Tel: 32(0) 71.25.97.03 / Mob: 32(0) 499.85.97.03
Email: juarez-ramirez_alberto@cat.com
Caterpillar Belgium - Bldg A
1, Avenue des Etats-Unis,
BE 6041, Gosselies , Belgium

hereby declares that the product:

Brand: Product Link

Model: PL641

440 - 2104 (internal antenna)
440 - 2105 (external antenna)

is in conformity with essential requirements of the following EC Directives

1999/5/EC	Radio and Telecommunications Terminal Equipment Directive
2006/95/EC	Low Voltage Directive
2014/30/EC	Electromagnetic Compatibility (ECM) Directive
2011/65/EU	Restriction of certain Hazardous Substances Directive

as is verified by compliance with the following standards:

EN 60950-1:2006+A12:2011	EN 301 489-1:V1.9.2: 2011
EN 301 511: v9.0.2	EN 301 489-3:V1.4.1:2002
EN 300 440-2:V1.4.1:2010	EN 301 489-7:V1.3.1:2005
EN 301 908-1:V5.2.1 and V6.2.1	EN 301 489-24:V1.5.1:2010
EN 301 908-2:V5.2.1 and V6.2.1	EN ISO 14982:2009
EN 62311:2008	EN 13309:2010
ISO 13766:2006	EN 50581:2012

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications.

Signed:

Vyay Ramasamy

Date:

Apr 28, 2016

Operation Section

Operation

i06692646

System Overview

SMCS Code: 7606**S/N:** PL21–99999**S/N:** PL61–Up

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.

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.

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.

Operation in a Blast Site for Product Link Radios

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.

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, "Product Link - 121SR/321SR/420/421/522/523".

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.
- The Product Link PL240 contains an internal battery that cannot be disconnected. Before operating a machine near a blast zone, remove the PL240.

Note: If no radio disable switch is installed and the equipment will be operating near a blast zone, a Product Link radio disable switch may be installed on the equipment. The switch will allow the 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, and Special Instruction, REHS9111 for more details and installation instructions.

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

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

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, and Systems Operation, Troubleshooting, Testing and Adjusting, UENR6983.

Table 6

Radio Transmitter Specifications		
Radio Model (Maximum)	Transmitter Frequency Range	Transmitter Power
PL640 G0100	824 MHz - 849 MHz	0.5W typical, 2W max
	880 MHz - 915 MHz	
	1710 MHz - 1755 MHz	
	1850 MHz - 1910 MHz	
	1920 MHz - 1980 MHz	
PL641	824 MHz - 849 MHz	0.5W typical, 2W max
	880 MHz - 915 MHz	
	1710 MHz - 1755 MHz	
	1850 MHz - 1910 MHz	
	1920 MHz - 1980 MHz	
PL631	1616 MHz - 1626.5 MHz	5.1W max
PL240	824 MHz - 849 MHz 880 MHz - 915 MHz 1710 MHz - 1755 MHz 1850 MHz - 1910 MHz 1920 MHz - 1980 MHz	0.5W typical, 2W max
PL241	824 MHz - 849 MHz 880 MHz - 915 MHz 1710 MHz - 1755 MHz 1850 MHz - 1910 MHz 1920 MHz - 1980 MHz	0.5W typical, 2W max

Consult your Cat dealer if there are any questions.

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Product and Dealer Information

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

Delivery Date: _____

Product Information

Model: _____

Product Identification Number: _____

Engine Serial Number: _____

Transmission Serial Number: _____

Generator Serial Number: _____

Attachment Serial Numbers: _____

Attachment Information: _____

Customer Equipment Number: _____

Dealer Equipment Number: _____

Dealer Information

Name: _____ Branch: _____

Address: _____

Dealer Contact

Phone Number

Hours

Sales: _____

Parts: _____

Service: _____

