



**Caterpillar Inc.**  
100 NE Adams Street,  
Peoria, IL 61629 USA

Media number  
UENR8460



# Operational Document

Supplemental Information

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## **Regulatory Compliance Information For GRADE System Component's**

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## Safety Signs and Labels

### **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.**

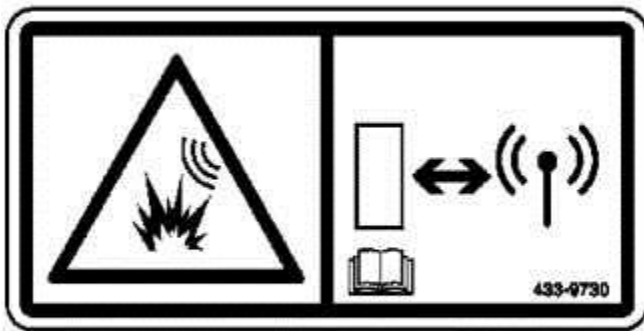
**Place a Special Instruction, SEHS7332, "Do Not Operate" tag at the start switch and battery disconnect location to inform personnel that the machine is being worked on.**



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## 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.



Film



### **WARNING**

The EC520-W and the TD520-W are 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 EC520-W and the TD520-W device should be deactivated within the distance mandated under all applicable national or local regulatory requirements. In the absence of any regulatory requirements Caterpillar recommends the end user perform their own risk assessment to determine safe operating distance.



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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 EC520-W and the TD520-W communication device:

- Turn the machine master Power switch to the OFF position.
- Disconnect the EC520-W and TD520-W device from the main power source. This action is performed by disconnecting the connector to these devices.

## 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

The film in Illustration 2 is intended to inform the operator that the equipment is equipped with a wireless transmitting device.



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## General Hazard Information



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

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## Forward

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 EC520-W and TD520-W 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 EC520-W and the TD520-W communication device is operated.



## Wireless Device EC520-W

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### Radio Frequency Range

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

Table 1		
Radio Transmitter Specifications		
Radio Model (Maximum)	Transmitter Frequency Range	Transmitter Power
EC520-W	2.4 GHz	.361 W

### Declaration of Conformity

**TRIMBLE®**  
CE Declaration of Conformity

Trimble Inc. declares, under sole responsibility, that the following product(s) conforms to the particular standards listed below in order to comply with European Union regulations.

Product Names: EC520–W

Fulfills the basic requirements for the following European Directives:

Directive Name

Directive Name



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Machinery	2006/42/EC
RoHS	2011/65/EU
RED	2014/53/EU

The Following Standards have been applied:

Test Criteria	Standard
	ISO13766:2006
Machinery	EN13309 2010
	EN 300–328 V2.1.1
	EN 301–489–1 V1.9.2
RED	EN 301–489–17 V3.1.1
	EN 60950–1 2006: + A2:2013

Product Names: EC520

Fulfills the basic requirements for the following European Directives:

Directive Name	Directive Name
Machinery	2006/42/EC
RoHS	2011/65/EU

The Following Standards have been applied:

Test Criteria	Standard
	ISO13766:2006
Machinery	EN13309 2010

Declaration Approval:

Date: 6/27/2017

Name: John Erhard

Title: Regulatory Compliance Manager





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Trimble Inc. LLC

5475 Kellenburger Road, Dayton , OH 45424, USA

Telephone: (937) 233-8921

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## Wireless Device TD520-W

### Radio Frequency Range

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

Table		
Radio Transmitter Specifications		
Radio Model (Maximum)	Transmitter Frequency Range	Transmitter Power
TD520-W	2.4 GHz	50. mW

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Product Names: TD520-W

Fulfills the basic requirements for the following European Directives:

Directive Name	Directive Name
Machinery	2006/42/EC
RoHS	2011/65/EU
RED	2014/53/EU

The Following Standards have been applied:

Test Criteria	Standard
Machinery	ISO13766:2006
	EN13309 2010
	EN 300–328 V2.1.1
RED	EN 301–489–1 V1.9.2
	EN 301–489–17 V3.1.1
	EN 60950–1 2006: + A2:2013

Declaration Approval:

Date: 2/28/2017

Name: John Erhard

Title: Regulatory Compliance Manager

Trimble Inc. LLC

5475 Kellenburger Road, Dayton , OH 45424, USA

Telephone: (937) 233–8921



*John H. Glendon Sr.*

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## Wireless Devices – MS995, MS975 and MS955 Receivers

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- (A) MS995
  - (B) MS975
  - (C) MS955
  - (D) MS352

## Declaration of Conformity



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**TRIMBLE®**  
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Trimble Inc. declares, under sole responsibility, that the following product(s) conforms to the particular standards listed below in order to comply with European Union regulations.

Product Names: MS995, MS975, MS955

Fulfills the basic requirements for the following European Directives:

Directive Name	Directive Name
Machinery	2006/42/EC
RoHS	2011/65/EU
RED	2014/53/EU

The Following Standards have been applied:

Test Criteria	Standard
Machinery	ISO13766:2006
	EN13309 2010
	ETSI EN 301 489–1 v2.2.0
RED	ETSI EN 301 489–19 v2.1.0
	ETSI EN 303 413 v1.1.1
	EN 60950–1;2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013
RoHS	EN 50581:2012

Declaration Approval:

Date: 1/11/2018

Name: John Erhard

Title: Regulatory Compliance Manager

Trimble Inc. LLC



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## Wireless Devices – MS352 receiver

### Declaration of Conformity

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, the object of this description: Satellite Receiver MS352

Brand: Caterpillar                      Model: MS352

Part Number: 371-7044, 392-5485    Antenna: 372-4806

Is in conformity with the relevant Union harmonization legislation:



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Directive 2014/30/EU

Directive 2014/53/EU

Directive 2011/65/EU

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

Assessment Procedure:   X   Annex II,        Annex III,        Annex IV

2014/30/EU                      EMC                      EN 13309:2010

2014/53/EU:	RED	LVD (Sec 3.1a):	EN 60950-1:2006 + A11:2009 + A1:2010 A12:2011 + A2:2013
		EMC (Sec 3.1b):	EN 301 489-1 V2.2.0 EN 301 489-19 V2.1.0
		RF (Sec 3.2)	EN 303 413 V1.1.1

2011/65/EU                      RoHS                      EN50581:2012

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Signature: 

Name: SIAMAK (MAX) MIRHAKIM I

Place: \_\_\_\_\_

Title: GM

Date: JAN-26-2018

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## Zephyr 2 Rugged GNSS Antenna

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Zephyr Model 2 Rugged

## Declaration of Conformity

**TRIMBLE®**  
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Trimble Inc. declares, under sole responsibility, that the following product(s) conforms to the particular standards listed below in order to comply with European Union regulations.

Product Names: Zephyr Model 2 Rugged

Fulfills the basic requirements for the following European Directives:

Directive Name	Directive Name
Machinery	2006/42/EC
RoHS	2011/65/EU



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RED

2014/53/EU

The Following Standards have been applied:

Test Criteria	Standard
Machinery	ISO13766:2006 ETSI EN 301 489-1 V2.2.0 ETSI EN 301 489-19 V2.1.0 ETSI EN 303 413 V1.1.1
RED	EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 in conjunction with the following sections of EN 60945:2008 (9.3, 10.3, 10.5, 10.9) CISPR25
RoHS	EN 50581:2012

Declaration Approval:

Date: 1/11/2018

Name: John Erhard

Title: Regulatory Compliance Manager

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## Zephyr 3 Rugged GNSS Antenna



Zephyr III Rugged

## Declaration of Conformity

TRIMBLE®  
CE Declaration of Conformity

Trimble Inc. declares, under sole responsibility, that the following product(s) conforms to the particular standards listed below in order to comply with European Union regulations.

Product Names: Zephyr III Rugged

Fulfills the basic requirements for the following European Directives:

Directive Name	Directive Name
Machinery	2006/42/EC
RoHS	2011/65/EU
RED	2014/53/EU



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The Following Standards have been applied:

Test Criteria	Standard
Machinery	ISO13766:2006
	ETSI EN 301 489–1 V2.2.0
	ETSI EN 301 489–19 V2.1.0
RED	ETSI EN 303 413 V1.1.1
	EN 60950–1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013
RoHS	EN 50581:2012

Declaration Approval:

Date: 1/11/2018

Name: John Erhard

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