

RQ0700 — Off Board Charger



JOHN DEERE



OPERATOR'S MANUAL

RQ0700 — Off board Charger

OMPFP24144 ISSUE 06NOV25 (ENGLISH)

John Deere Power Systems

Worldwide Edition
PRINTED IN U.S.A.



Introduction

Foreword

READ THIS MANUAL carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or equipment damage. This manual and safety signs on your machine may also be available in other languages. See www.techpubs.deere.com (Ag&Turf/JDPS), www.johndeeretechno.com (C&F), or your John Deere dealer to order.

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your machine and should remain with the machine when you sell it.

MEASUREMENTS in this manual are given in both metric and customary U.S. unit equivalents. Use only correct replacement parts and fasteners. Metric and inch fasteners may require a specific metric or inch wrench.

RIGHT-HAND AND LEFT-HAND sides are determined by facing in the direction of forward travel.

WRITE PRODUCT IDENTIFICATION NUMBERS (PIN) in the Specification or Machine Numbers section. Accurately record all the numbers to help in tracing the machine should it be stolen. PIN information is helpful when ordering parts. File the identification numbers in a secure place off the machine.

WARRANTY is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate or statement which you should have received at time of purchase.

This warranty provides you the assurance that John Deere will back its products where defects appear within the warranty period. In some circumstances, John Deere also provides field improvements, often without charge to the customer, even if the product is out of warranty. Should the equipment be abused, or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements may be denied. Setting fuel delivery above specifications or otherwise overpowering machines will result in such action.

If you are not the original owner of this machine, it is in your interest to contact your local John Deere dealer to inform them of this unit's serial number. This will help John Deere notify you of any issues or product improvements.

DX,IFC1 -19-03APR09-1/1

John Deere Is at Your Service

Customer satisfaction is important to John Deere.

Our dealers strive to provide you with prompt, efficient parts, and service:

- Maintenance and service parts to support your equipment.
- Trained service technicians and the necessary diagnostic and repair tools to service your equipment.
- **John Deere replacement parts, repair services, and information for maintenance or repair are available. For more information, please visit deere.com or deere.ca.**



TS201—UN—15APR13

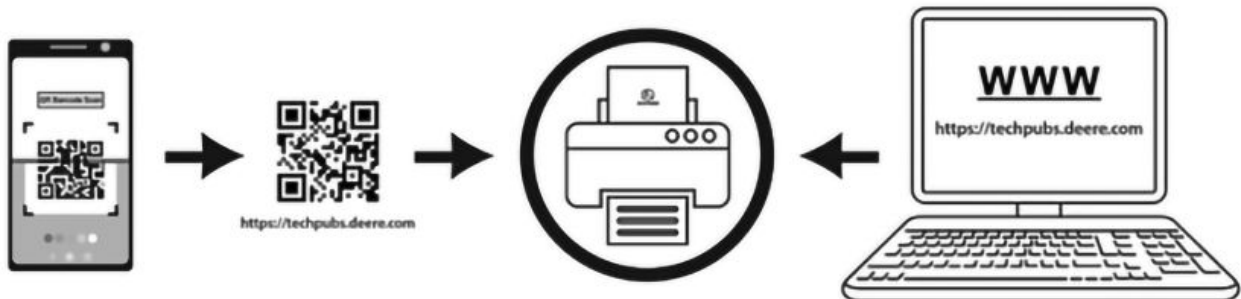
DX,IFC,JDS -19-30SEP25-1/1

Trademarks

Trademarks	
Deere™	Deere is a trademark of Deere & Company
John Deere™	John Deere is a trademark of Deere & Company
Service ADVISOR™	Service ADVISOR is a trademark of Deere & Company
WINDOWS®	WINDOWS is a trademark of Microsoft Corporation

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Download Instructions



Instructions, manuals, and other documents may be downloaded at [www.techpubs.deere.com](https://techpubs.deere.com). Scanning the QR code on a mobile device will route to the site automatically.

Les instructions, les manuels et autres documents peuvent être téléchargés à cette adresse: [www.techpubs.deere.com](https://techpubs.deere.com). Scanner le QR code via un appareil mobile mène automatiquement au site.

Istruzioni, manuali e altri documenti possono essere scaricati su [www.techpubs.deere.com](https://techpubs.deere.com). La scansione del codice QR su un dispositivo portatile indirizza automaticamente al sito.

Anleitungen, Handbücher und andere Dokumente können unter [www.techpubs.deere.com](https://techpubs.deere.com) heruntergeladen werden. Durch Scannen des QR-Codes mit einem Mobilgerät wird man automatisch zur Webseite weitergeleitet.

Las instrucciones, los manuales y otros documentos se pueden descargar en [www.techpubs.deere.com](https://techpubs.deere.com). Al escanear el código QR en un dispositivo móvil, se abrirá automáticamente el sitio web.

Instruções, manuais e outros documentos podem ser baixados em [www.techpubs.deere.com](https://techpubs.deere.com). A leitura do código QR em um dispositivo móvel levará você automaticamente para o site.

Инструкции, руководства и другие документы можно загрузить на странице [www.techpubs.deere.com](https://techpubs.deere.com). Сканирование QR-кода на мобильном устройстве будет автоматически отправлять на сайт.

Safety

Recognize Safety Information

This is a safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



DX,ALERT -19-03OCT22-1/1

TS1388 —UN—28JUN13

Understand Signal Words

DANGER; The signal word DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING; The signal word WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION; The signal word CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. CAUTION may also be used to alert against unsafe practices associated with events which could lead to personal injury.

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards. DANGER or WARNING safety signs are located near specific hazards. General

precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

▲ DANGER

▲ WARNING

▲ CAUTION

DX,SIGNAL -19-05OCT16-1/1

TS187 —19—30SEP88

Follow Safety Instructions

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your John Deere dealer.

There can be additional safety information contained on parts and components sourced from suppliers that is not reproduced in this operator's manual.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your John Deere dealer.



DX,READ -19-01AUG22-1/1

TS201 —UN—15APR13

Practice Safe Maintenance

Understand service procedure before doing work. Keep area clean and dry.

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet, and clothing away from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

Securely support any machine elements that must be raised for service work.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

On self-propelled equipment, disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.

On towed implements, disconnect wiring harnesses from tractor before servicing electrical system components or welding on machine.

Falling while cleaning or working at height can cause serious injury. Use a ladder or platform to easily reach each location. Use sturdy and secure footholds and handholds.



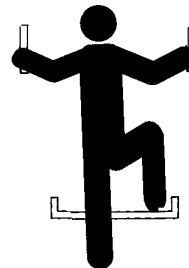
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DX,SERV -19-28FEB17-1/1

Use Steps and Handholds Correctly

Prevent falls by facing the machine when getting on and off. Maintain 3-point contact with steps, handholds, and handrails.

Use extra care when mud, snow, or moisture present slippery conditions. Keep steps clean and free of grease or oil. Never jump when exiting machine. Never mount or dismount a moving machine.



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DX,WW,MOUNT -19-12OCT11-1/1

Replace Safety Signs

Replace missing or damaged safety signs. Use this operator's manual for correct safety sign placement.

There can be additional safety information contained on parts and components sourced from suppliers that is not reproduced in this operator's manual.



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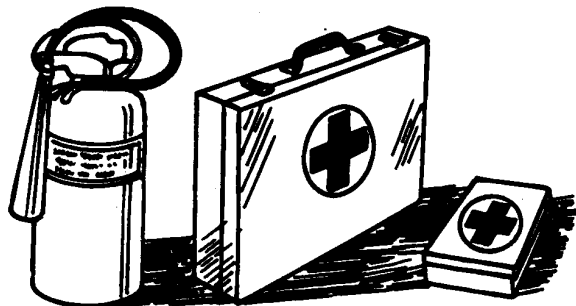
DX,SIGNS -19-18AUG09-1/1

Prepare for Emergencies

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



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DX,FIRE2 -19-03MAR93-1/1

Charger Safety Instructions

Save these instructions. This manual is for the RQ0700 - Off board Charger. Please read this information in its entirety before using your 700W charger. For technical support, contact the manufacturer of your machine; or contact the distributor as their version of this charger may require unique operating instructions. For more information, please visit www.techpubs.deere.com

⚠ CAUTION: Risk of electrical shock.

- Connect charger power cord to an AC outlet that has been properly installed and grounded in accordance with all local codes and ordinances. A grounded AC outlet is required to reduce the risk of electric shock.
- Do not use ground adapters or modify the plug.
- Do not touch uninsulated portions of the output connector or uninsulated battery terminals.
- Disconnect the AC supply before making or breaking the connections to the battery.
- Do not open or disassemble the charger.
- Do not operate this charger if the AC supply cord or DC output cord is damaged or if the charger has received a sharp blow, been dropped, or is damaged in any way.
- Refer all repair work to the manufacturer, or qualified personnel.

⚠ CAUTION: Risk of non-supervision.

- This charger is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge on electrical

systems and battery charging, unless they have been given supervision or instruction concerning use of the charger by a person responsible for their safety.

- Children should be supervised to ensure they do not play with the charger.

⚠ CAUTION: Risk of incorrect usage.

- Use the charger only with an algorithm that is appropriate to the specific battery type and capacity of your product. Other usage may cause personal injury and damage.
- Never charge a frozen or non-rechargeable battery.

⚠ CAUTION: Risk of explosive battery gases.

- Lead acid batteries may generate explosive hydrogen gas during normal charging. Keep sparks, flames, and smoking materials away from batteries.
- Do not operate the charger in a closed-in area or restrict ventilation.

NOTE: If this charger is used with lithium-ion type batteries, an integrated battery management system (BMS) must be used. The BMS must ensure that in all operating modes, the battery cells are protected from inappropriate levels of voltage, current, temperature, and state of charge.

Observe all battery manufacturers' precautions (e.g., maximum charge rates and if cell caps should be removed while charging).

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Operating the Charger Safely

⚠ CAUTION: Avoid risk of burns. Use protection gloves to safely handle charger as it may become hot during charging.

⚠ CAUTION: Avoid risk of injury from electrical shock. Do not handle the charger with wet hands.

⚠ CAUTION: Avoid risk of serious injury from electrical shock. Always use John Deere recommended power cords. Always connect charger power cords to GFCI (Ground Fault Circuit Interrupter) power outlet that has been installed and grounded in accordance with regional codes and ordinances.

⚠ CAUTION: Avoid fire or electric shock. Always use manufacturer's recommended power cords. Refer to operator's manual for more information.

NOTE: When mated with a John Deere specialized sealed AC cord, the charger meets IP66 specifications,

making it dust-tight and protected against powerful water jets. If a cord set with an unsealed appliance connector is used, the ingress protection is reduced to IP20, the plug and connector must be protected against contamination and periodically inspected to ensure the contacts are clean and dry.

Reduce the risk of injury or damage to charger by taking the following precautions:

1. Disconnect charger AC power cord plug from the wall socket.
2. Disconnect DC power connector from the battery.
3. Avoid damage to charger. Do not expose charger to oil, dirt or mud or direct heavy water spray.
4. Storage temperature range is -40°C to 85°C (-40°F to 185°F).
5. Avoid impacting the charger with heavy objects such as a hammer or heavy weights.

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Safety Label on Off-Board Charger

Safety Label 1

Danger: Risk of explosive battery gases. Provide adequate ventilation during charging. Avoid exposure to heat, flames or sparks.

Caution: Only charge battery provided with the end product. Other type of batteries may burst causing personal injury and damage.



Safety Label 1

Continued on next page

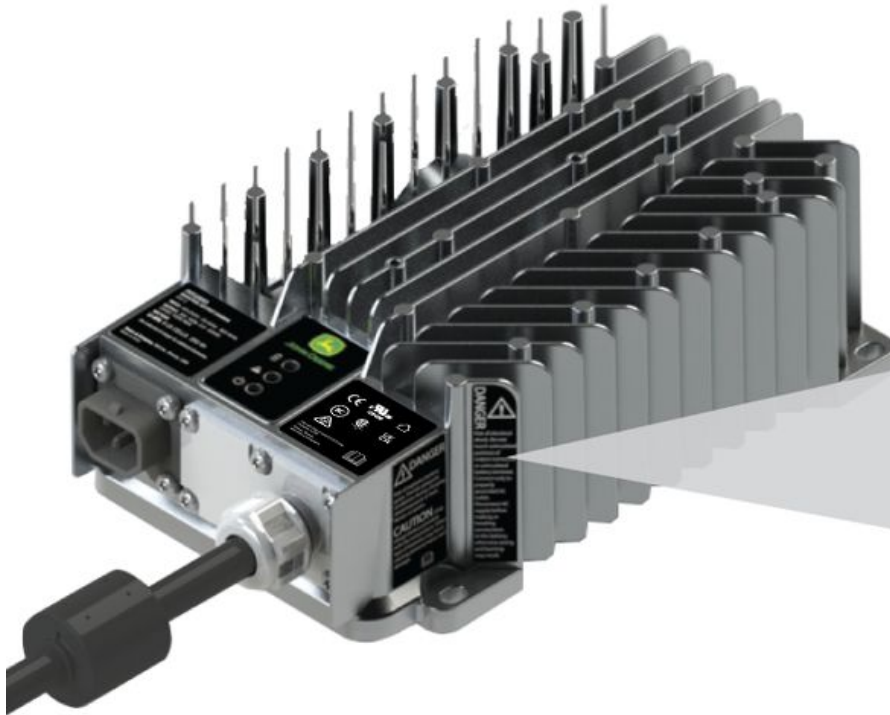
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RG39944 —UN—04SEP25

Safety Label 2

Danger: Risk of electrical shock. Do not touch uninsulated portions of output connector or uninsulated battery terminal. Connect only to properly grounded AC

outlet. Disconnect AC supply before making or breaking connections to the battery. Otherwise arcing and burning may result.



DANGER



Risk of electrical Shock. Do not touch uninsulated portions of output connector or uninsulated battery terminal. Connect only to properly grounded AC outlet. Disconnect AC supply before making or breaking connections to the battery. otherwise arcing and burning may result.

Safety Label 2

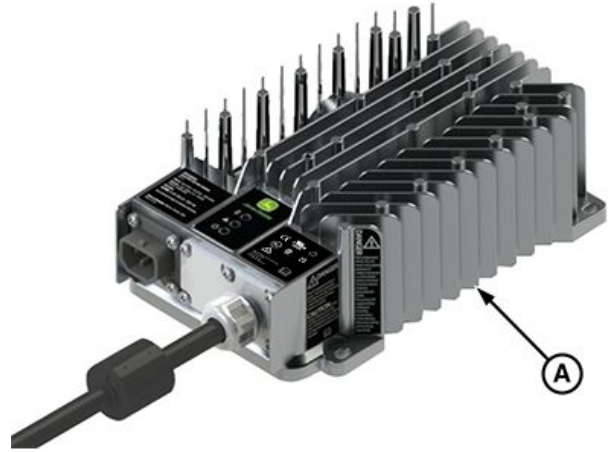
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Safety Label 3 Location

A—Safety Label 3 Location



Safety Label 3 Location

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RG39943 —UN—04SEP25

Safety Label 3

INDUSTRIAL BATTERY CHARGER
상호명: DELTA-Q TECHNOLOGIES CORP
제조업체명: SYRMA SCS TECHNOLOGY LTD.
제조국: 인도
한국이코텍 센터: 포워널 02-2648-3260
제조번호: YYYV11MMH

**INDUSTRIAL BATTERY CHARGER /
CHARGEUR DE BATTERIE INDUSTRIEL**

Deere & Company, Moline, Illinois, USA
Made in / fabriqué en

DANGER

DANGER : RISQUE DE CHOCS ÉLECTRIQUES. NE PAS TOUCHER LES PARTIES NON ISOLÉES DU CONNECTEUR DE SORTIE OU LES BORNES NON ISOLÉES DE L'ACCUMULATEUR.

BRANCHER EXCLUSIVEMENT À UNE PRISE CA CORRECTEMENT MISE À LA TERRE. DÉBRANCHER L'ALIMENTATION ÉLECTRIQUE CA AVANT D'ÉTABLIR OU D'INTERROMPRE LA CONNEXION À LA BATTERIE SINON VOUS POURRIEZ CAUSER UN ARC ÉLECTRIQUE OU SUBIR DES BRÛLURES. ASSURER UNE VENTILATION ADÉQUATE PENDANT LA CHARGE.

CAUTION / ATTENTION

Surfaces may be hot - To avoid risk of burns, do not touch.
Do not expose to rain unless using sealed AC plug.

Les surfaces peuvent être très chaudes - Pour éviter tout risque de brûlure, ne pas toucher.
Ne pas exposer à la pluie sans l'utilisation d'une prise de courant CA scellée.

ATTENTION

ATTENTION : UTILISER POUR CHARGER UNIQUEMENT LES ACCUMULATEURS DU TYPE FOURNIS AVEC LE PRODUIT FINAL. D'AUTRES TYPES D'ACCUMULATEURS POURRAIENT ÉCLATER ET CAUSER DES BLESSURES OU DOMMAGES.

Lire le manuel d'instructions avant d'utiliser le chargeur. Charger des batteries d'autres types ou voltages pourrait entraîner des blessures ou des dommages.

NOTE: During periods of extended storage, the charger will keep the battery charged if the charger is connected to the battery and connected to a live AC outlet.

REMARQUE: Lors d'un remisage prolongé, le chargeur conservera la charge de la batterie s'il est relié à la batterie et branché à une source d'alimentation CA fonctionnelle.

Consult your equipment manufacturer if you require information or assistance.

No user serviceable parts inside. Do not remove cover risk of electrical shock.

When charging lithium-ion battery packs, pack protection must be provided by a Battery Management System (BMS).

Consulter le fabricant de votre équipement si vous avez besoin d'information d'assistance.

Aucun des composants internes n'est réparable par l'utilisateur. Ne pas enlever le couvercle - risque de décharge électrique.

Lors de la charge de batteries lithium-ion, la protection de la batterie doit être assurée par un système de gestion de batterie (BMS).

CAN ICES-002 (B)/NMB-002(B)

Safety Label

A—Compliance Information
B—EU Waste from Electrical and Electronic Equipment (WEEE)

C—Canada Interference – Causing Equipment Standards (ICES)

D—Caution

Compliance Information:

- Consult your equipment manufacturer if you require information or assistance.
- No user serviceable parts inside. Do not remove cover risk of electrical shock.
- When charging lithium-ion battery packs, pack protection must be provided by a Battery Management System (BMS).

Caution:

- Surfaces may be hot - To avoid risk of burns, do not touch.
- Do not expose to rain unless using sealed AC plug.

Note:

- During periods of extended storage, the charger will keep the battery charged if the charger is connected to the battery and connected to a live AC outlet.

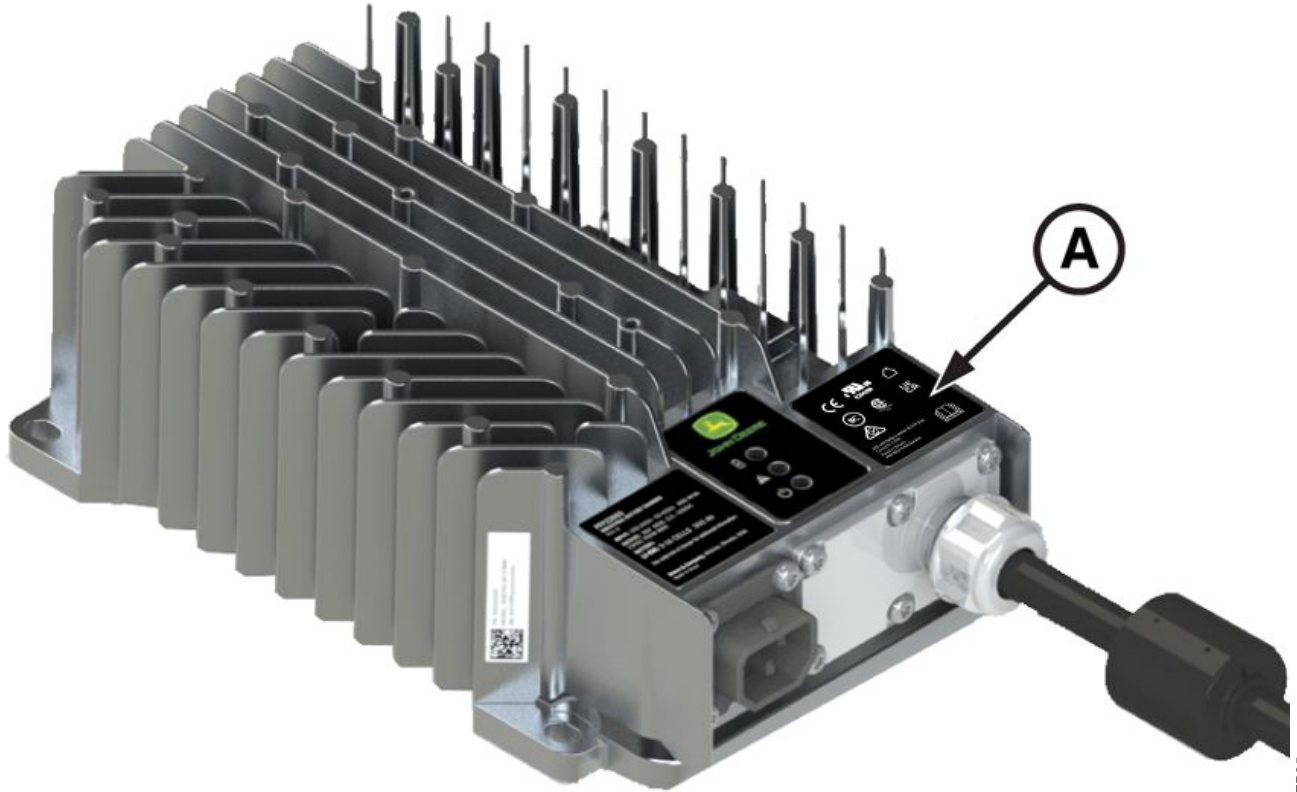
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Regulatory and Compliance Information

Compliance Label on Off-Board Charger

The compliance label on the off-board charger indicates the following :



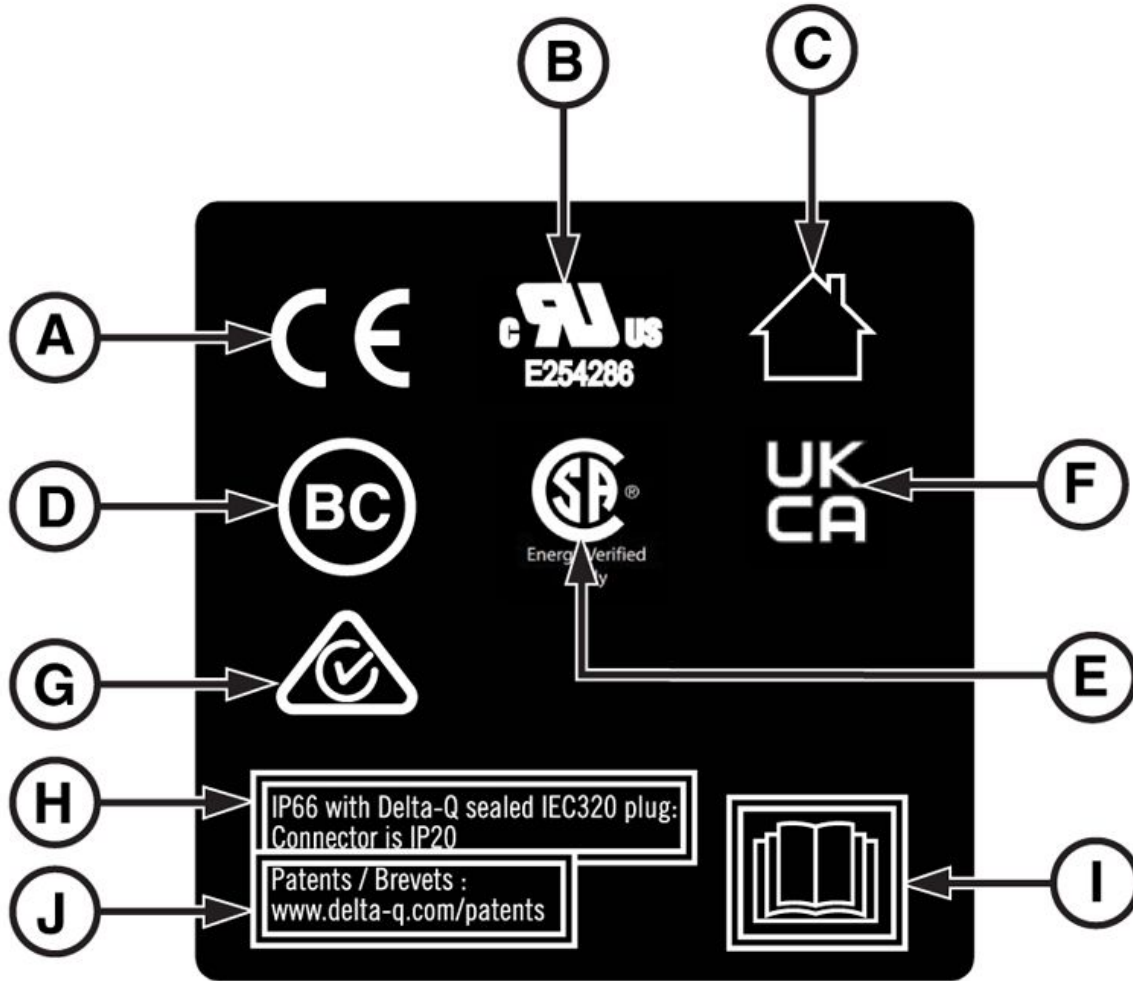
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Compliance Label Location

A—Compliance Label Location

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Compliance Label Information

A —Conformité Européene (CE) Mark	E —Canadian Standards Association (CSA) Energy Efficiency NRCan Verification Mark	G —Regulatory Compliance Mark (RCM) Australia/New Zealand Mark	J —Supplier Patent Information
B —UL Recognized Component Mark	F —UK Conformity Assessed (UKCA) Mark	H —Ingress Protection Standard	I —Read Operator's Manual
C —Indoor Use Only			
D —California Battery Charger (BC) Mark			

1. The Conformité Européene (CE) mark (A) means that the manufacturer or importer affirms the good's conformity with European health, safety, and environmental protection standards
2. UL Recognized Component mark (B) indicates compliance with both Canadian and U.S. product safety requirements.
3. Indoor use only (C) label is to identify electrical equipment designed primarily for indoor use.
4. The state of California Battery Charger (BC) mark (D) indicates that the battery chargers are regulated under the California Energy Commission - Title 20 for non-consumer electronics.
5. The Canadian Standards Association (CSA) mark (E) on your product means it has been tested against applicable Natural Resources Canada (NRCan) Energy Efficiency standards requirements.
6. The UK Conformity Assessed (UKCA) mark (F) indicates conformity with the applicable requirements for products sold within Great Britain.
7. The Regulatory Compliance Mark (RCM) mark (G) shows that a product is safe to supply to the Australian/New Zealand market.
8. The Ingress Protection standard (H) has been developed by IEC(International Electrotechnical Commission). It grades the resistance of an enclosure against the intrusion of dust or liquids. IP66 indicates that the component is dust tight and protected against powerful water jets.

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9. The Read Operator's Manual (I) indicates that the operator's manual should be read before continuing the operation.

10. The Supplier Patent Information (J) provides details on the manufacturer's patents.

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United States—Federal Communications Commission (FCC) Notifications to User

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.
- Contact the local John Deere dealer, engine distributor, other service provider, or an experienced radio/TV technician for help.

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UK Declaration of Conformity

**JOHN DEERE**

UK Declaration of Conformity

Deere & Company
Moline, Illinois USA

The undersigned hereby declares that:

Product RQ0700-Off Board Charger
Name:
Model(s): RQ0700-36-COMMD

fulfill(s) all relevant provisions and essential requirements of the following UK Regulations:

REGULATION	NUMBER	CERTIFICATION METHOD
The Electromagnetic Compatibility Regulations	S.I. 2016 / 1091	Schedule 2, Module A
The Electrical Equipment (Safety) Regulations	S.I. 2016/1101	Schedule 2
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations	S.I. 2012 / 3032	Part 2, Section 12

The product is in conformity with the following standards and/or other normative documents:

EN IEC 55014-1:2021	EN-IEC63000:2018
EN IEC 61000-6-3:2021	EN 603335-1:2012+A2:2019
EN IEC 55014-2:2021	EN 60335-2-29:2021+A1:2021
EN IEC 61000-6-2:2019	IEC 60335-1:2010+C1+C2+A1+C1+A2:2016
EN 61000-3-2:2014	IEC 60335-2-29:2016+A1:2019
EN 61000-3-3:2013	Standard

Name and address of the person authorized to compile the technical construction file:

John Deere Ltd
Harby Road
Langar
Nottinghamshire
NG13 9HT
United Kingdom
EUConformity@JohnDeere.com

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: Moline, IL, USA
Date of Declaration: 26 February 2024

Signed:
Name:

Matt Potter

Manufacturing Unit: Deere & Company, Moline, IL 61265

Title: Head of Engineering –
Electrification Modules
and Advanced
Technology

Ag & Turf Products Importer: John Deere Ltd- Harby Road, Langar, Nottinghamshire, NG13 9HT, United Kingdom
Forestry Products Importer: John Deere Forestry Ltd- Carlisle Airport Industrial Estate, Carlisle, Cumbria, CA6 4NW, United Kingdom
Construction Importer: Wirtgen Limited, Wirtgen Group House, Overfield Park, Godfrey Drive, Newark, Notts. NG24 2UA, United Kingdom



UK Declaration of Conformity

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RG38946 –UN–04SEP25

EU Declaration of Conformity

**JOHN DEERE****EU Declaration of Conformity**

Deere & Company
Moline, Illinois USA

The undersigned hereby declares that:

Product Name(s) RQ0700-Off Board Charger

Model(s): RQ0700-036-COMMD;

fulfill(s) all relevant provisions and essential requirements of the following directives:

DIRECTIVE	NUMBER	CERTIFICATION METHOD
Low Voltage Directive	2014/35/EU	Annex III of the Directive
Restriction of Hazardous Substances	2011/65/EU	Article 7 of the Directive
Electromagnetic Compatibility Directive	2014/30/EU	Annex II of the Directive

The product is in conformity with the following standards and/or other normative documents:

EN 60335-1:2012+A2:2019	EN IEC 55014-1:2021
EN60335-2-29:2021+A1:2021	EN IEC 61000-6-3:2021
IEC 60335-1:2010+C1+C2+A1+C1:2016	EN IEC 55014-2:2021
IEC60335-2-29:2016:A1:2019	EN IEC 61000-6-2:2019
EN-IEC 63000:2018	EN 61000-3-2:2014
	EN 61000-3-3:2013

Name and address of the person in the European Community authorized to compile the technical construction file:

John Deere Walldorf GmbH & Co. KG
Customer Support
Impexstraße 3
D-69190 Walldorf
EUConformity@JohnDeere.com

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: Moline, IL

Signed:

Date of Declaration: 30 April 2024

Name:

Manufacturing Unit: Deere & Company, Moline, IL 61265

Title:

Head of Engineering –
Electrification Modules and
Advanced Technology

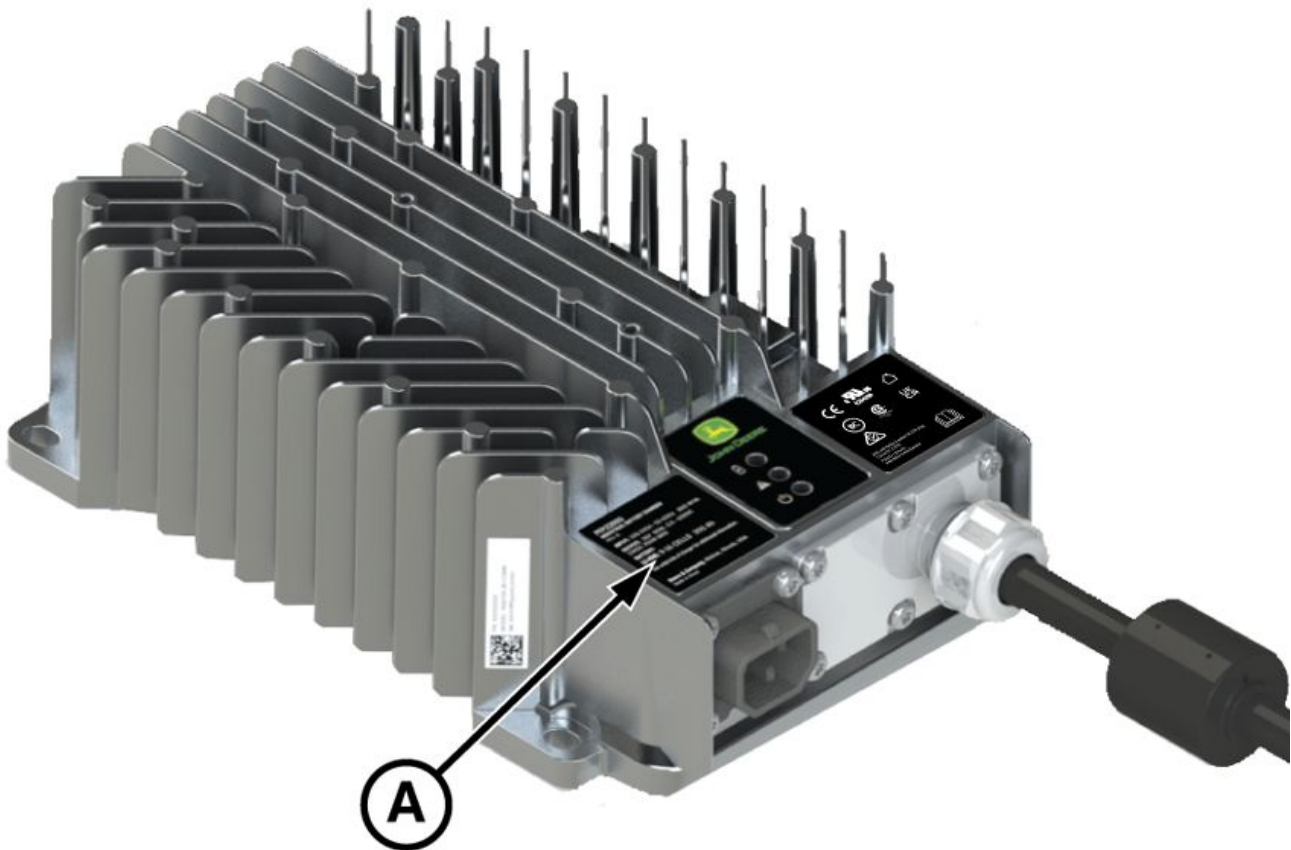


EU Declaration of Conformity

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RG39947 UN-04SEP25

Product Label Information



RG39938 —UN—04SEP25

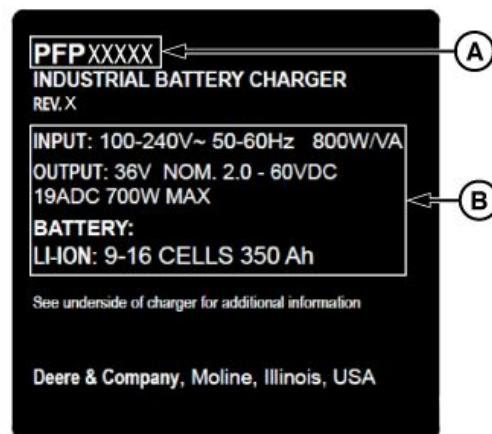
Product Label Location

A—Product Label Location

The product label contains the part number and electrical specifications.

A—Part Number

B—Electrical Specification



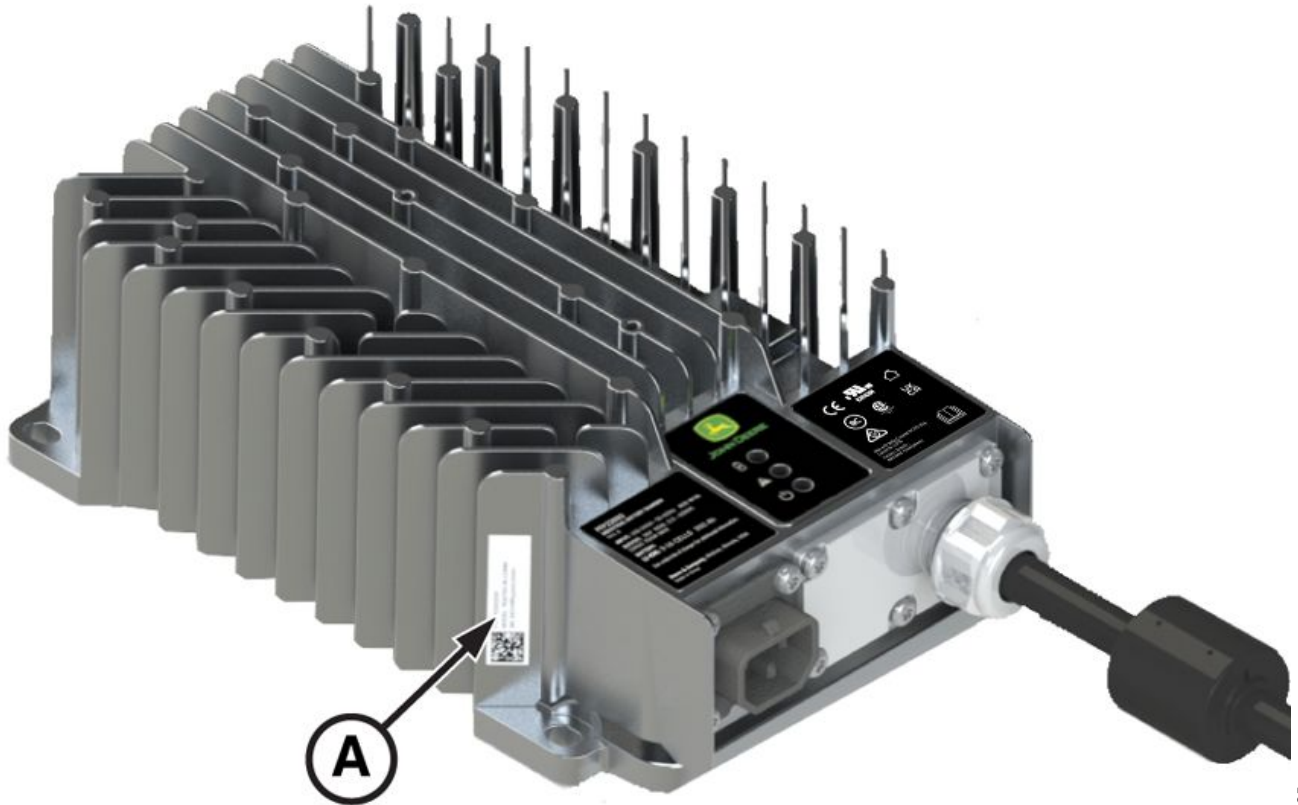
RG39579 —UN—09JUN25

Product Label

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Serial Number Plate Information

The serial number plate (A) is located on the top side of the charger.



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Serial Number Plate Location

A—Serial Number Plate Location

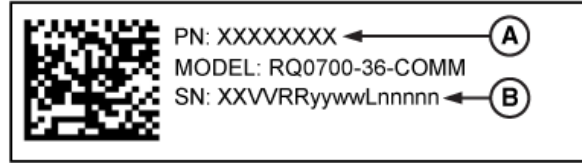
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Each off-board charger has a 16-digit serial number consisting of a 5-digit sequential identifying number.

RG569622 —UN—17SEP23

A —Part Number	F —Production Year
B —Serial Number	G —Week of Production
C —Product Sub-Family Code	H —Supplier Manufacturing Location
D —Variant	I —5-Digit Serialized Number
E —Revision	



Serial Number Plate Information

<u>XX</u>	<u>VV</u>	<u>RR</u>	<u>yy</u>	<u>ww</u>	<u>L</u>	<u>nnnnn</u>
↑	↑	↑	↑	↑	↑	↑
(C)	(D)	(E)	(F)	(G)	(H)	(I)

Serial Number Designation

aytqu2e,1680360944004 -19-04SEP25-2/2

RG569623 —UN—10MAR23

Record Serial Number Information

Locate and record the serial number of off-board charger found on the label in the spaces provided below.

For serial number location information, see [Serial Number Plate Information](#) in Section 20.

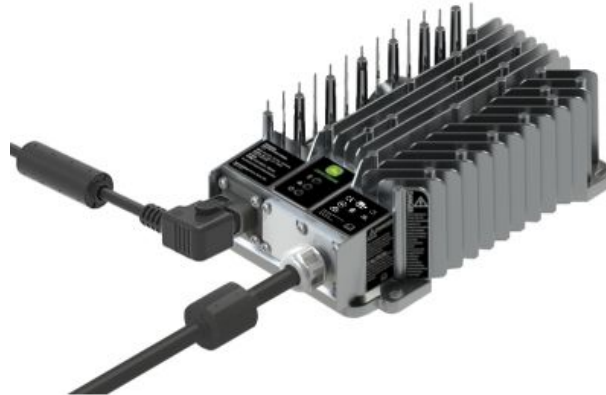
This number is important for repair parts or warranty information.

Off-Board Charger Serial Number

aytqu2e,1680334723241 -19-05APR23-1/1

Component Overview

Off-Board Charger — Identification View

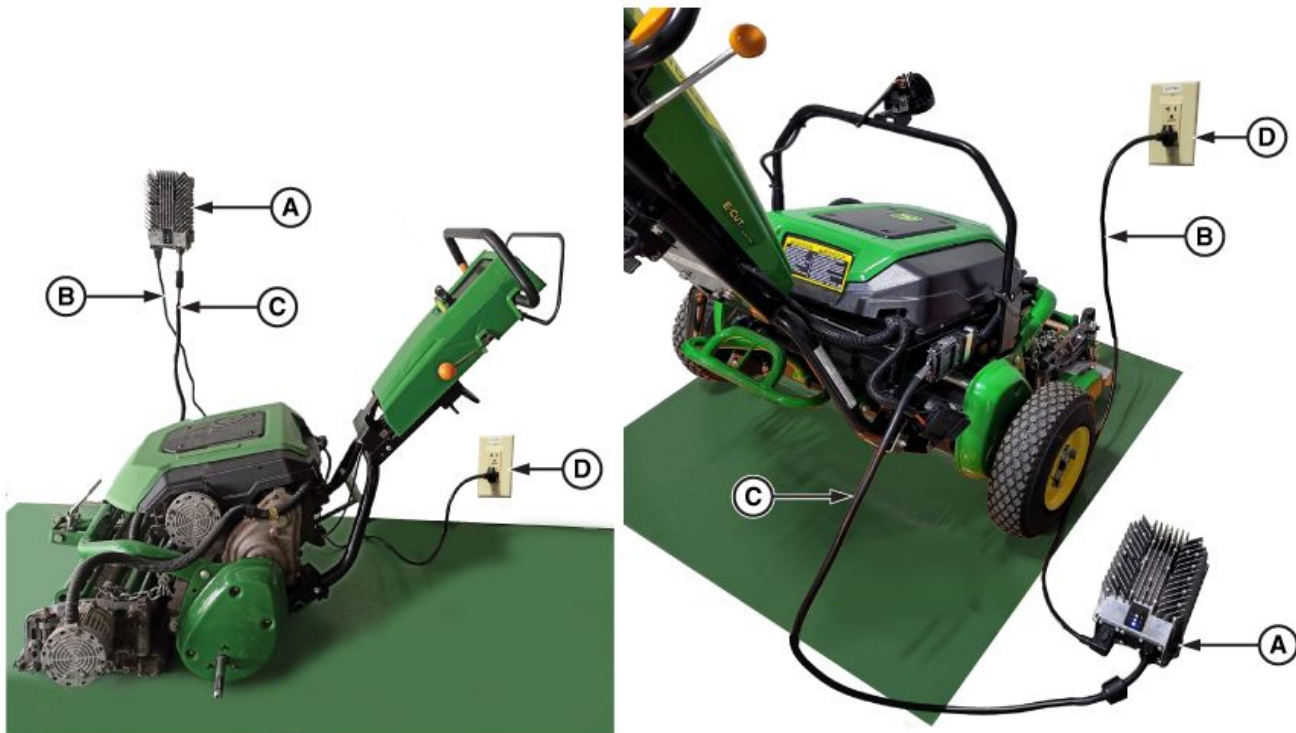


Off-Board Charger

RG39942 —UN—04SEP25

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Off-Board Charger — Installation Location



Charger Location — Wall and Floor Mounted

A—Charger
B—AC Power Cord

C—DC Power Cord

D—GFCI Power Socket

RG37312 —UN—17SEP23

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Off-Board Charger — General Operation

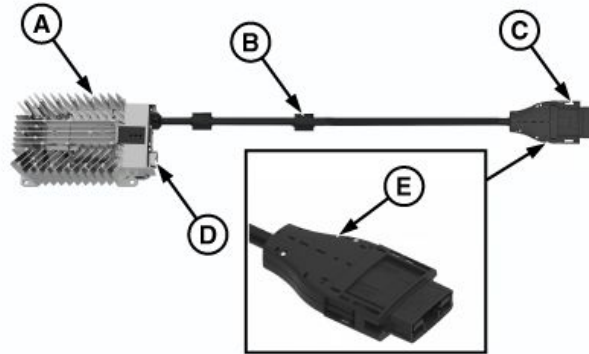
Off-board charger converts input AC power to output DC power to charge battery. The 700 W off board charger will recharge the battery pack from 0% to 100% within 5-6 hours. It also provides 12V auxiliary low power output for other 12V vehicle system.

NOTE: The DC power cord shown is for representation purpose only. For the length of DC power cord, see [Off-Board Charger Component Specifications](#) in Section 75.

The off-board charger (A) consists of two power cords, one DC power and communication cord (B) and AC power cord. The AC power cord on one end is connected to the AC power cord connector (D) on charger (A) and to the wall socket at the other end. The DC power and communication cord (B) is connected to charger (A) at one end and to battery at the other end.

The data from the charger is sent to BMS (Battery Management System) and VCU (vehicle control unit) over the CAN bus through the DC power and communication cord (B). The BMS provides voltage and current limits to charger and charger adjusts its output based on those parameters. During charging, a signal from charger is sent to wake up BMS.

NOTE: The charger operates between -40°C to 65°C (-40°F to 149°F). When the temperature of the charger rises above 40°C (104°F) or below -35°C (-31°F) the charger reduces its output power. The



Off-Board Charger Components

- A—Off-Board Charger
- B—DC Power and Communication Cord
- C—Anderson Connector
- D—AC Power Cord Connector
- E—Back Shell

charger also reduces output power if it detects the battery pack is damaged.

NOTE: If power is interrupted, and then returns, the charger starts and continues to operate without hazard to the user, or damage to the batteries.

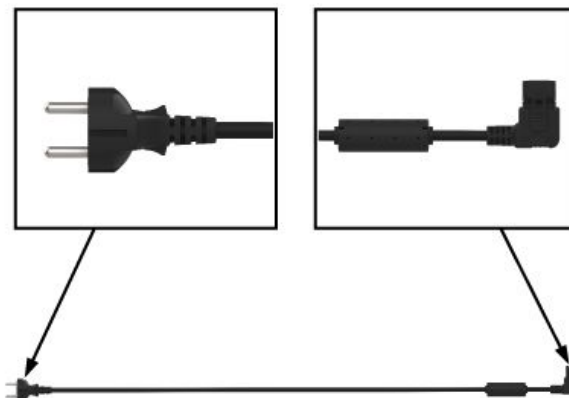
aytqu2e,1677919635632 -19-22AUG24-1/1

Off-Board Charger — AC Power Cord

NOTE: If the detachable AC input power cord set or DC output cord is damaged, do not use the charger until they are replaced with cord sets appropriate to your region and application. For AC

power cord specifications, see [Off-Board Charger Component Specifications](#) in Section 75.

AC Power Cord — Europe



AC Power Cord — Europe

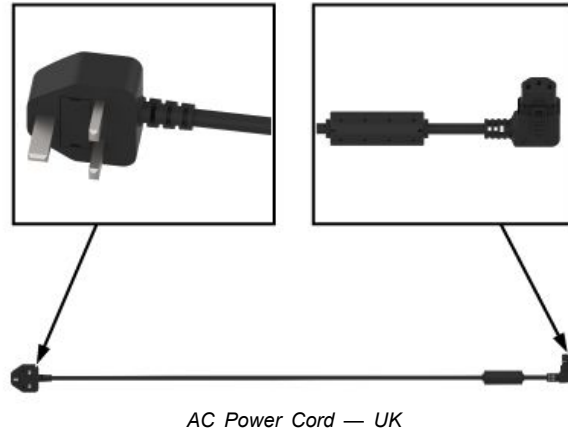
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RG37231 —UN—01MAR24

RG573718 —UN—16SEP24

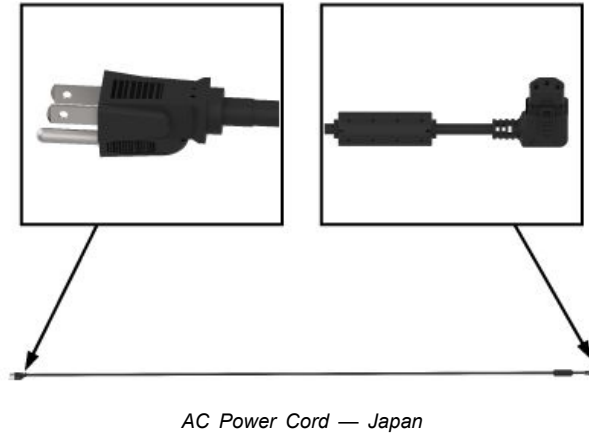
AC Power Cord — UK



aytqu2e,1680599594840 -19-10APR23-2/5

RG573719 —UN—16SEP24

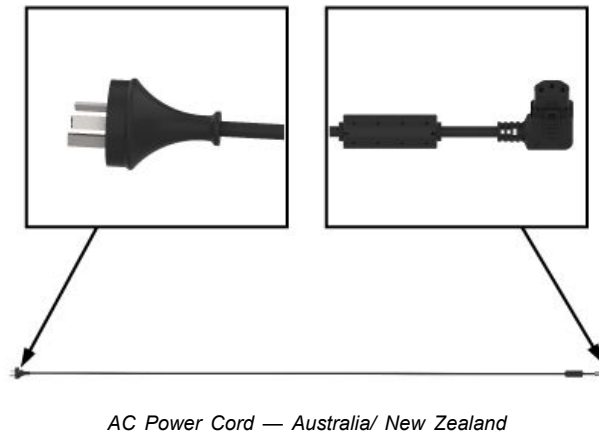
AC Power Cord — Japan



aytqu2e,1680599594840 -19-10APR23-3/5

RG573720 —UN—16SEP24

AC Power Cord — Australia/ New Zealand

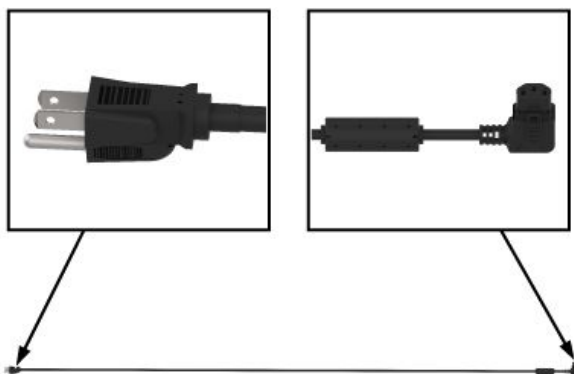


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RG573721 —UN—16SEP24

AC Power Cord — USA/Canada



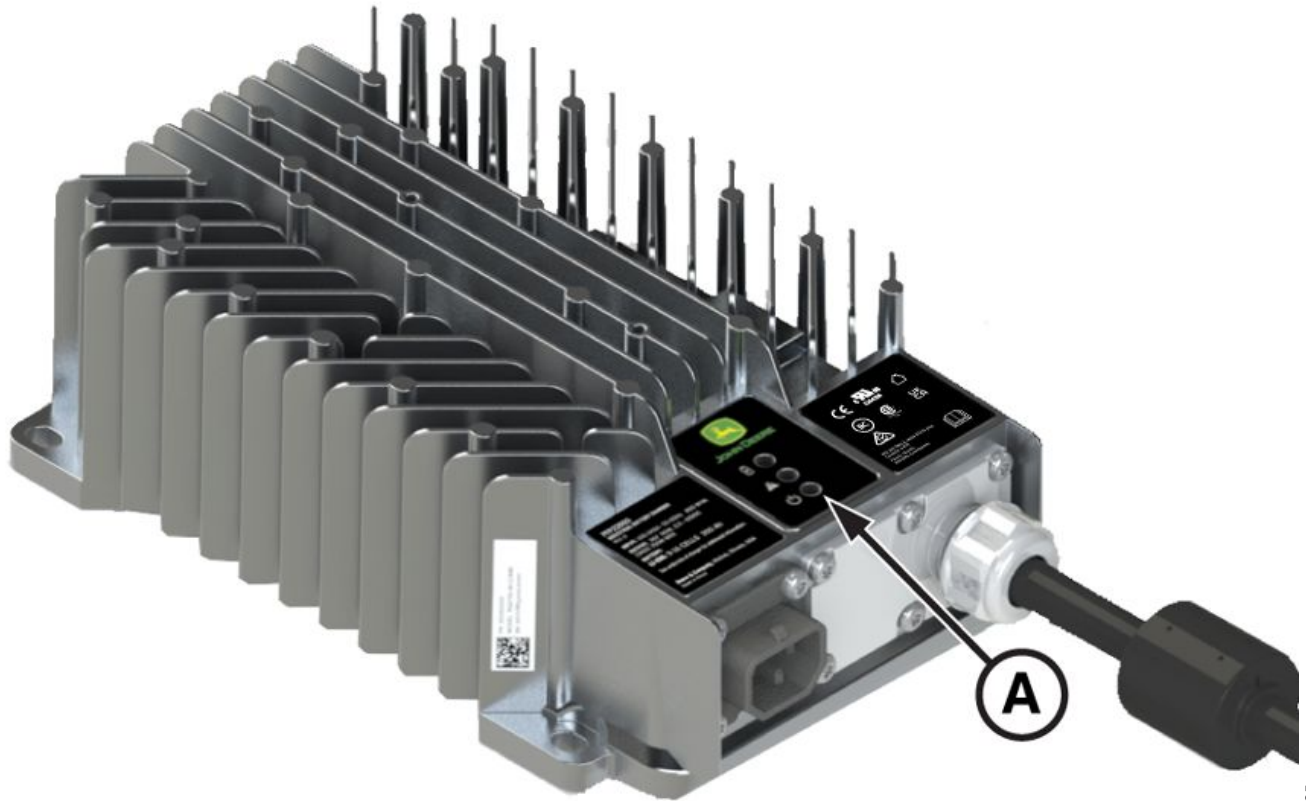
AC Power Cord — USA/Canada

aytqu2e,1680599594840 -19-10APR23-5/5

RG573722 —UN—16SEP24

Off-Board Charger LED Indications

Off-board charger has three LEDs to indicate the status of power supply, fault mode, and charging mode.



RG39941 —UN—04SEP25

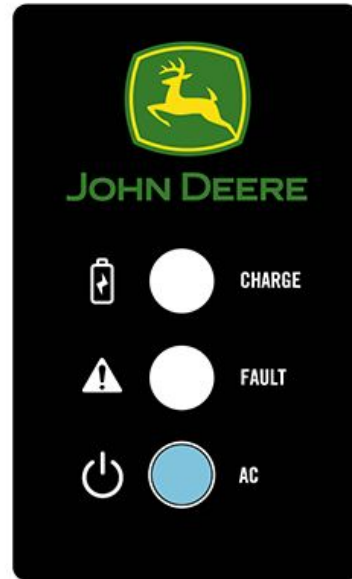
Off-Board Charger LED location

A—Off-Board Charger LED location

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aytqu2e,1677920173558 -19-04SEP25-1/4

The blue LED indicates that the input AC power is available.



RG569607 —UN—17SEP23

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The green LED indicates that the charger is in charging mode.

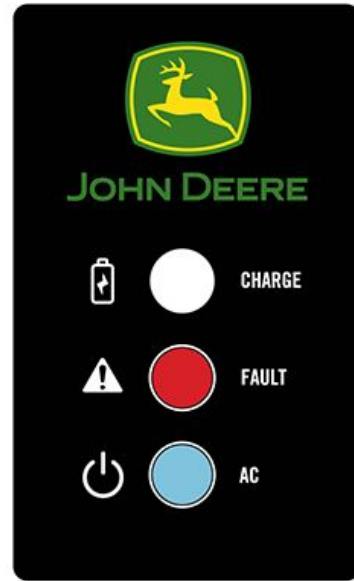


RG569608 —UN—17SEP23

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aytqu2e,1677920173558 -19-04SEP25-3/4

The red LED indicates that the charger is in fault mode.



RG509009—UN—23JAN24

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Maintenance

Maintenance Guidelines

⚠ CAUTION: Avoid risk of serious injury from electrical shock. Do not touch any uninsulated portions of charger connectors.

⚠ CAUTION: Prevent fire and overheating of components. Avoid contamination and corrosion of electrical connectors.

⚠ CAUTION: Avoid risk of electrical shock. Do not attempt to open or disassemble the charger.

- Before inspection, cleaning, moving or servicing, always disconnect charger from power supply connections.

- While handling the charger, always use the handle instead of pulling on the cord.
- In case of damage to power cords, contact the local John Deere dealer, engine distributor, or other service provider.
- If charger is provided with an AC cord set and the power plug does not match the power outlet, contact the local John Deere dealer, engine distributor, or other service provider for the correct AC cord set terminating with a plug suitable for your region's grounded power outlet.
- Inspect all the charger connectors for corrosion and contamination.
- Clean the charger with a clean cloth.

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Observable Symptoms

Off-Board Charger Troubleshooting

Symptom	Problem	Solution
Battery is getting charged and blue LED is OFF.	LED failure	Contact the local John Deere dealer, engine distributor, or other service provider.
Battery is not getting charged and blue LED is OFF.	AC power not available	Check for availability grid power supply. Fix loose connections of AC power cord on both wall socket end and at charger AC inlet.
Battery is getting charged and green LED is OFF.	LED failure	Contact the local John Deere dealer, engine distributor, or other service provider.
Battery is not getting charged and green LED is OFF.	Loose connection at battery inlet connector	• Disconnect AC power supply to charger. • Disconnect charger connector from battery. • Wait for 5 seconds and plug back the charger connector to battery. • Reconnect AC power supply to charger. • If problem persists, contact the local John Deere dealer, engine distributor, or other service provider.
Battery is not getting charged and red LED is ON.	Charger in fault mode	• Disconnect AC power supply to charger. • Disconnect charger connector from battery. • Wait for 5 seconds and plug back the charger connector to battery. • Reconnect AC power supply to charger. • If problem persists, contact the local John Deere dealer, engine distributor, or other service provider.
Battery is not getting charged and red LED is ON for one or two flashes.	Battery error	Contact the local John Deere dealer, engine distributor, or other service provider.
Battery is not getting charged and red LED is ON for three flashes.	Internal timer error	• Disconnect AC power supply to charger. • Disconnect charger connector from battery. • Wait for 5 seconds and plug back the charger connector to battery. • Reconnect AC power supply to charger. • If problem persists, contact the local John Deere dealer, engine distributor, or other service provider.
Battery is not getting charged and red LED is ON for four flashes.	Charger application compatibility error	• Disconnect AC power supply to charger. • Disconnect charger connector from battery. • Wait for 5 seconds and plug back the charger connector to battery. • Reconnect AC power supply to charger. • If problem persists, contact the local John Deere dealer, engine distributor, or other service provider.
Battery is not getting charged and red LED is ON for five flashes.	CAN communication error	• Disconnect AC power supply to charger. • Disconnect charger connector from battery. • Wait for 5 seconds and plug back the charger connector to battery. • Reconnect AC power supply to charger. • If problem persists, contact the local John Deere dealer, engine distributor, or other service provider.

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Observable Symptoms

Symptom	Problem	Solution
Battery is not getting charged and red LED is ON for seven flashes.	Battery temperature sensor error	• Disconnect AC power supply to charger. • Disconnect charger connector from battery. • Wait for 5 seconds and plug back the charger connector to battery. • Reconnect AC power supply to charger. • If problem persists, contact the local John Deere dealer, engine distributor, or other service provider.
Battery is not getting charged and red LED is ON for nine flashes.	Internal software configuration error	• Disconnect AC power supply to charger. • Disconnect charger connector from battery. • Wait for 5 seconds and plug back the charger connector to battery. • Reconnect AC power supply to charger. • If problem persists, contact the local John Deere dealer, engine distributor, or other service provider.

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Specifications

Off-Board Charger Component Specifications

Off-Board Charger (RQ0700) Specifications		
ITEM	SI UNIT OF MEASURE	VALUE
Electrical Specifications		
Output DC Voltage	V	(28 — 60) V
Output DC Current	A	19 A (700 W)
Input AC Voltage	V	(100 — 240) V
Input AC Frequency	Hz	(50 — 60) Hz
Input AC Current	A	6.5 A (120 VAC)
		3.2 A (240 VAC)
12V Auxiliary Output Voltage	V	(12.7 — 13.7) V
DC output cord Length	m	3 m

Off-Board Charger AC Power Cord Specifications					
Input AC Voltage (V)	AWG (American Wire Gauge) number	Diameter (mm)	Cord Length (m)	Termination Connector Specifications (V, A)	Standard
100	16	1.291	2	100, 15	VCTF JIS C8303 IEC320 Japan with Ferrite Bead
120	16	1.291	2	125, 13	NEMA 5-15 IEC320 USA with Ferrite Bead
230	16	1.291	2	250, 10	GTSA-3 IEC320 AS/NZ with Ferrite Bead, CEE7/7 to IEC320 Germany with Ferrite Bead, H05VV-F BS6313 IEC320 UK with Ferrite Bead

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Off-Board Charger AC Extension Power Cord Specifications

Extension cord requirements:

In North America and other 120V AC regions, the extension cord must be 3-conductor outdoor rated meeting the minimum gauge shown:

Off-Board Charger AC Extension Power Cord Specifications		
Cord Length (ft)	Cord Length (m)	AWG (American Wire Gauge) Size of Cord
25	7.6	16
50	15.2	16
100	30.5	12
150	45.6	10

In Europe and other 220-240V AC regions, the extension lead must be 3-conductor outdoor rated at a minimum 6 amps for RQ0700 off-board charger.

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Warranty

Product Warranty

For warranty information, please refer to the machine or vehicle operator manual.

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