

Can Convertor Kit

Operator's Manual

169831 Revision D


Original Instruction

Can Convertor Kit



Published: August 2016

Declaration of Conformity

|  <h2>EC Declaration of Conformity</h2> | |
|---|---|
| <p>[1] MacDon</p> <p>MacDon Industries Ltd. 680 Moray Street, Winnipeg, Manitoba, Canada R3J 3S3</p> | <p>[4] Not Applicable</p> <p>[5] August 8, 2016</p> <p>[6] <u>Christoph Martens</u> Product Integrity</p> |
| <p>[2] CanWin Adapter</p> <p>[3] Part 167890</p> | |

| EN | BG | CZ | DA |
|--|---|---|--|
| <p>We, [1]</p> <p>Declare, that the product:</p> <p>Machine Type: [2]</p> <p>Name & Model: [3]</p> <p>Serial Number(s): [4]</p> <p>fulfils all the relevant provisions of the Directive 2006/42/EC.</p> <p>Harmonized standards used, as referred to in Article 7(2):</p> <p>EN ISO 4254-1:2013 EN ISO 4254-7:2009</p> <p>Place and date of declaration: [5]</p> <p>Identity and signature of the person empowered to draw up the declaration: [6]</p> <p>Name and address of the person authorized to compile the technical file:</p> <p>Hartmut Hartmann Wersener Holz 2a D-49504 Lotte (Germany) hartmut.hartmann@prodoku.com</p> | <p>Ние, [1]</p> <p>декларираме, че следният продукт:</p> <p>Тип машина: [2]</p> <p>Наименование и модел: [3]</p> <p>Сериен номер(а) [4]</p> <p>отговаря на всички приложими разпоредби на директива 2006/42/ЕО.</p> <p>Използвани са следните хармонизирани стандарти според чл. 7(2):</p> <p>EN ISO 4254-1:2013 EN ISO 4254-7:2009</p> <p>Място и дата на декларацията: [5]</p> <p>Име и подпис на лицето, упълномощено да изготви декларацията: [6]</p> <p>Име и адрес на лицето, упълномощено да състави техническия файл:</p> <p>Хартмут Хартман Wersener Holz 2a D-49504 Lotte (Германия) hartmut.hartmann@prodoku.com</p> | <p>My, [1]</p> <p>Prohlašujeme, že produkt:</p> <p>Typ zařízení: [2]</p> <p>Název a model: [3]</p> <p>Sériové(á) číslo(a): [4]</p> <p>splňuje všechna relevantní ustanovení směrnice 2006/42/EC.</p> <p>Byly použity harmonizované standardy, jak je uvedeno v článku 7(2):</p> <p>EN ISO 4254-1:2013 EN ISO 4254-7:2009</p> <p>Místo a datum prohlášení: [5]</p> <p>Identita a podpis osoby oprávněné k vydání prohlášení: [6]</p> <p>Jméno a adresa osoby oprávněné k vyplnění technického souboru:</p> <p>Hartmut Hartmann Wersener Holz 2a D-49504 Lotte (Německo) hartmut.hartmann@prodoku.com</p> | <p>Vi, [1]</p> <p>erklærer, at produktet:</p> <p>Maskintype [2]</p> <p>Navn og model: [3]</p> <p>Serienummer (-numre): [4]</p> <p>Opfylder alle bestemmelser i direktiv 2006/42/EF.</p> <p>Anvendte harmoniserede standarder, som henviser til i paragraf 7(2):</p> <p>EN ISO 4254-1:2013 EN ISO 4254-7:2009</p> <p>Sted og dato for erklæringen: [5]</p> <p>Identitet på og underskrift fra den person, som er bemyndiget til at udarbejde erklæringen: [6]</p> <p>Navn og adresse på den person, som er bemyndiget til at udarbejde den tekniske fil:</p> <p>Hartmut Hartmann Wersener Holz 2a D-49504 Lotte (Tyskland) hartmut.hartmann@prodoku.com</p> |

| DE | ES | ET | FR |
|--|---|---|--|
| <p>Wir, [1]</p> <p>Erklären hiermit, dass das Produkt:</p> <p>Maschinentyp: [2]</p> <p>Name & Modell: [3]</p> <p>Seriennummer (n): [4]</p> <p>alle relevanten Vorschriften der Richtlinie 2006/42/EG erfüllt.</p> <p>Harmonisierte Standards wurden, wie in folgenden Artikeln angegeben, verwendet 7(2):</p> <p>EN ISO 4254-1:2013 EN ISO 4254-7:2009</p> <p>Ort und Datum der Erklärung: [5]</p> <p>Name und Unterschrift der Person, die dazu befugt ist, die Erklärung auszustellen: [6]</p> <p>Name und Anschrift der Person, die dazu berechtigt ist, die technischen Unterlagen zu erstellen:</p> <p>Hartmut Hartmann Wersener Holz 2a D-49504 Lotte (Deutschland) hartmut.hartmann@prodoku.com</p> | <p>Nosotros [1]</p> <p>declaramos que el producto:</p> <p>Tipo de máquina: [2]</p> <p>Nombre y modelo: [3]</p> <p>Números de serie: [4]</p> <p>cumple con todas las disposiciones pertinentes de la directriz 2006/42/EC.</p> <p>Se utilizaron normas armonizadas, según lo dispuesto en el artículo 7(2):</p> <p>EN ISO 4254-1:2013 EN ISO 4254-7:2009</p> <p>Lugar y fecha de la declaración: [5]</p> <p>Identidad y firma de la persona facultada para draw redactar la declaración: [6]</p> <p>Nombre y dirección de la persona autorizada para elaborar el expediente técnico:</p> <p>Hartmut Hartmann Wersener Holz 2a D-49504 Lotte (Germany) hartmut.hartmann@prodoku.com</p> | <p>Meie, [1]</p> <p>deklareerime, et toode</p> <p>Seadme tüüp: [2]</p> <p>Nimi ja mudel: [3]</p> <p>Seerianumbrid: [4]</p> <p>vastab kõigile direktiivi 2006/42/EÜ asjakohastele sätetele.</p> <p>Kasutatud on järgnevaid harmoniseeritud standardeid, millele on viidatud ka punktis 7(2):</p> <p>EN ISO 4254-1:2013 EN ISO 4254-7:2009</p> <p>Deklaratsiooni koht ja kuupäev: [5]</p> <p>Deklaratsiooni koostamiseks volitatud isiku nimi ja allkiri: [6]</p> <p>Tehnilise dokumendi koostamiseks volitatud isiku nimi ja aadress:</p> <p>Hartmut Hartmann Wersener Holz 2a D-49504 Lotte (Saksamaa) hartmut.hartmann@prodoku.com</p> | <p>Nous soussignés, [1]</p> <p>Déclarons que le produit :</p> <p>Type de machine : [2]</p> <p>Nom et modèle : [3]</p> <p>Numéro(s) de série : [4]</p> <p>Est conforme à toutes les dispositions pertinentes de la directive 2006/42/EC.</p> <p>Utilisation des normes harmonisées, comme indiqué dans l'Article 7(2):</p> <p>EN ISO 4254-1:2013 EN ISO 4254-7:2009</p> <p>Lieu et date de la déclaration : [5]</p> <p>Identité et signature de la personne ayant reçu le pouvoir de rédiger cette déclaration : [6]</p> <p>Nom et adresse de la personne autorisée à constituer le dossier technique :</p> <p>Hartmut Hartmann Wersener Holz 2a D-49504 Lotte (Allemagne) hartmut.hartmann@prodoku.com</p> |

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Figure 1: EC Declaration of Conformity, Page 1

EC Declaration of Conformity

| IT | HU | LT | LV |
|--|--|---|---|
| <p>Noi, [1] Dichiariamo che il prodotto: Tipo di macchina: [2] Nome e modello: [3] Numero(i) di serie: [4] soddisfa tutte le disposizioni rilevanti della direttiva 2006/42/CE.</p> <p>Utilizzo degli standard armonizzati, come indicato nell'Articolo 7(2):</p> <p style="text-align: center;">EN ISO 4254-1:2013 EN ISO 4254-7:2009</p> <p>Luogo e data della dichiarazione: [5] Nome e firma della persona autorizzata a redigere la dichiarazione: [6] Nome e persona autorizzata a compilare il file tecnico: Hartmut Hartmann Wersener Holz Za D-49504 Lotte (Germania) hartmut.hartmann@prodoku.com</p> | <p>Mi, [1] Ezennel kijelentjük, hogy a következő termék: Gép típusa: [2] Név és modell: [3] Számszám(ok): [4] teljesíti a következő irányelv összes vonatkozó előírásait: 2006/42/EK.</p> <p>Az alábbi harmonizált szabványok kerültek alkalmazásra a 7(2) cikkely szerint:</p> <p style="text-align: center;">EN ISO 4254-1:2013 EN ISO 4254-7:2009</p> <p>A nyilatkozattétel ideje és helye: [5] Azon személy kiléte és aláírása, aki jogosult a nyilatkozat elkészítésére: [6] Azon személy neve és aláírása, aki felhatalmazott a műszaki dokumentáció összeállítására: Hartmut Hartmann Wersener Holz Za D-49504 Lotte (Németország) hartmut.hartmann@prodoku.com</p> | <p>Mes, [1] Pareiškiamė, kad šis produktas: Mašinos tipas: [2] Pavadinimas ir modelis: [3] Serijos numeris (-iai): [4] atitinka taikomus reikalavimus pagal Direktyvą 2006/42/EB.</p> <p>Naudojami harmonizuoti standartai, kai nurodoma straipsnyje 7(2):</p> <p style="text-align: center;">EN ISO 4254-1:2013 EN ISO 4254-7:2009</p> <p>Deklaracijos vieta ir data: [5] Asmens tapatybės duomenys ir parašas asmens, įgalinto sudaryti šią deklaraciją: [6] Vardas ir pavardė asmens, kuris įgaliotas sudaryti šį techninį failą: Hartmut Hartmann Wersener Holz Za D-49504 Lotte (Vokietija) hartmut.hartmann@prodoku.com</p> | <p>Mēs, [1] Deklarējam, ka produkts: Mašīnas tips: [2] Nosaukums un modelis: [3] Sērijas numurs(-i): [4] Atbilst visām būtiskajām Direktīvas 2006/42/EK prasībām.</p> <p>Piemēroti šādi saskaņotie standarti , kā minēts 7. panta 2. punktā:</p> <p style="text-align: center;">EN ISO 4254-1:2013 EN ISO 4254-7:2009</p> <p>Deklarācijas parakstīšanas vieta un datums: [5] Tās personas vārds, uzvārds un paraksts, kas ir pilnvarota sagatavot šo deklarāciju: [6] Tās personas vārds, uzvārds un adrese, kas ir pilnvarota sastādīt tehnisko dokumentāciju: Hartmut Hartmann Wersener Holz Za D-49504 Lotte (Vācija) hartmut.hartmann@prodoku.com</p> |
| <p>Wij, [1] Verklaren dat het product: Machinetype: [2] Naam en model: [3] Serienummer(s): [4] voldoet aan alle relevante bepalingen van de Richtlijn 2006/42/EC.</p> <p>Geharmoniseerde normen toegepast, zoals vermeld in Artikel 7(2):</p> <p style="text-align: center;">EN ISO 4254-1:2013 EN ISO 4254-7:2009</p> <p>Plaats en datum van verklaring: [5] Naam en handtekening van de bevoegde persoon om de verklaring op te stellen: [6] Naam en adres van de geautoriseerde persoon om het technisch dossier samen te stellen: Hartmut Hartmann Wersener Holz Za D-49504 Lotte (Duitsland) hartmut.hartmann@prodoku.com</p> | <p>My niżej podpisani, [1] Oświadczamy, że produkt: Typ urządzenia: [2] Nazwa i model: [3] Numer seryjny/numery seryjne: [4] spełnia wszystkie odpowiednie przepisy dyrektywy 2006/42/WE.</p> <p>Zastosowaliśmy następujące (zharmonizowane) normy zgodnie z artykułem 7(2):</p> <p style="text-align: center;">EN ISO 4254-1:2013 EN ISO 4254-7:2009</p> <p>Data i miejsce oświadczenia: [5] Imię i nazwisko oraz podpis osoby upoważnionej do przygotowania deklaracji: [6] Imię i nazwisko oraz adres osoby upoważnionej do przygotowania dokumentacji technicznej: Hartmut Hartmann Wersener Holz Za D-49504 Lotte (Niemcy) hartmut.hartmann@prodoku.com</p> | <p>Nós, [1] Declaramos, que o produto: Tipo de máquina: [2] Nome e Modelo: [3] Número(s) de Série: [4] cumpre todas as disposições relevantes da Directiva 2006/42/CE.</p> <p>Normas harmonizadas aplicadas, conforme referido no Artigo 7(2):</p> <p style="text-align: center;">EN ISO 4254-1:2013 EN ISO 4254-7:2009</p> <p>Local e data da declaração: [5] Identidade e assinatura da pessoa autorizada a elaborar a declaração: [6] Nome e endereço da pessoa autorizada a compilar o ficheiro técnico: Hartmut Hartmann Wersener Holz Za D-49504 Lotte (Alemanha) hartmut.hartmann@prodoku.com</p> | <p>Noi, [1] Declarăm, că următorul produs: Tipul mașinii: [2] Denumirea și modelul: [3] Număr (numere) serie: [4] corespunde tuturor dispozițiilor esențiale ale directivei 2006/42/EC.</p> <p>Au fost aplicate următoarele standarde armonizate conform articolului 7(2):</p> <p style="text-align: center;">EN ISO 4254-1:2013 EN ISO 4254-7:2009</p> <p>Data și locul declarației: [5] Identitatea și semnătura persoanei împuternicite pentru întocmirea declarației: [6] Numele și semnătura persoanei autorizate pentru întocmirea cărții tehnice: Hartmut Hartmann Wersener Holz Za D-49504 Lotte (Germania) hartmut.hartmann@prodoku.com</p> |
| <p>Mi, [1] Izjavljujemo da proizvod Tip mašine: [2] Naziv i model: [3] Serijski broj(ovi): [4] Ispunjava sve relevantne odredbe direktive 2006/42/EC.</p> <p>Korišćen su usklađeni standardi kao što je navedeno u članu 7(2):</p> <p style="text-align: center;">EN ISO 4254-1:2013 EN ISO 4254-7:2009</p> <p>Datum i mesto izdavanja deklaracije: [5] Identitet i potpis lica ovlašćenog za sastavljanje deklaracije: [6] Ime i adresa osobe ovlašćene za sastavljanje tehničke datoteke: Hartmut Hartmann Wersener Holz Za D-49504 Lotte (Nemačka) hartmut.hartmann@prodoku.com</p> | <p>Vi, [1] Intygat att produkten: Maskintyp: [2] Namn och modell: [3] Serienummer: [4] uppfyller alla relevanta villkor i direktivet 2006/42/EG.</p> <p>Harmonierade standarder används, såsom anges i artikel 7(2):</p> <p style="text-align: center;">EN ISO 4254-1:2013 EN ISO 4254-7:2009</p> <p>Plats och datum för intyget: [5] Identitet och signatur för person med befogenhet att upprätta intyget: [6] Namn och adress för person behörig att upprätta den tekniska dokumentationen: Hartmut Hartmann Wersener Holz Za D-49504 Lotte (Tyskland) hartmut.hartmann@prodoku.com</p> | <p>Mi, [1] izjavljamo, da izdelek: Vrsta stroja: [2] Ime in model: [3] Serijska/-e številka/-e: [4] ustreza vsem zadevnim določbam Direktive 2006/42/ES.</p> <p>Uporabljeni usklajeni standardi, kot je navedeno v členu 7(2):</p> <p style="text-align: center;">EN ISO 4254-1:2013 EN ISO 4254-7:2009</p> <p>Kraj in datum izjave: [5] Istovetnost in podpis osebe, pooblaščenega za pripravo izjave: [6] Ime in naslov osebe, pooblaščenega za pripravo tehnične datoteke: Hartmut Hartmann Wersener Holz Za D-49504 Lotte (Nemčija) hartmut.hartmann@prodoku.com</p> | <p>My, [1] týmto prehlasujeme, že tento výrobok: Typ zariadenia: [2] Názov a model: [3] Výrobné číslo: [4] splňa príslušné ustanovenia a základné požiadavky smernice č. 2006/42/ES.</p> <p>Použité harmonizované normy, ktoré sa uvádzajú v Článku č. 7(2):</p> <p style="text-align: center;">EN ISO 4254-1:2013 EN ISO 4254-7:2009</p> <p>Miesto a dátum prehlásenia: [5] Meno a podpis osoby oprávnenej vypracovať toto prehlásenie: [6] Meno a adresa osoby oprávnenej zostaviť technický súbor: Hartmut Hartmann Wersener Holz Za D-49504 Lotte (Nemecko) hartmut.hartmann@prodoku.com</p> |

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Figure 2: EC Declaration of Conformity, Page 2

Introduction

The Can Convertor kit (MD #167889) consists of an adapter module (MD #167890, not sold separately) and a 6-foot electrical cable (MD #139834). This kit is sometimes referred to as the CanWin box or the J1939 to USB diagnostic adapter.

The Can Convertor kit is a service tool which, in combination with CanWin Service Tool (the CanWin diagnostic software program installed on a laptop computer), allows you to communicate with the windrower's cab display module (CDM) and windrower control module (WCM).

The kit, together with CanWin Service Tool, allows you to:

- Read and display data from the windrower regarding control system status
- Activate individual windrower controls to facilitate diagnostics of the system
- Program and update the operating software of the CDM and WCM

NOTE:

The CanWin software package (MD #206057) required to operate the Can Convertor is not supplied with this kit, but is available via Internet download from our Dealer-only site (<https://portal.macdon.com>) (login required).

NOTE:

Keep your MacDon publications up-to-date. The most current version of this instruction can be downloaded from our Dealer-only site (<https://portal.macdon.com>) (login required).

List of Revisions

At MacDon, we're continuously making improvements, and occasionally these improvements affect product documentation. The following list provides an account of major changes from the previous version of this document.

| Summary of Change | Location |
|---|---|
| Added EC Declaration of Conformity. | Declaration of Conformity, page i |
| Changed Can Convertor kit from MD #139832 to MD #167889. Changed adapter module MD #139833 to MD #167890. Changed CanWin software package MD #163836 to MD #206057. | Introduction, page iii |
| Added imperial measurements. | <ul style="list-style-type: none">• 3.1 P1 Diagnostic Port Connection Specifications, page 7• 3.2 P2 USB Port Connection (Mini USB "B") Specifications, page 9 |

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1 Safety

1.1 Signal Words

Three signal words, **DANGER**, **WARNING**, and **CAUTION**, are used to alert you to hazardous situations. The appropriate signal word for each situation has been selected using the following guidelines:



DANGER

Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.



WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. It may also be used to alert against unsafe practices.



CAUTION

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may be used to alert against unsafe practices.

1.2 Safety Alert Symbols

This safety alert symbol indicates important safety messages in this manual.

This symbol means:

- **ATTENTION!**
- **BECOME ALERT!**
- **YOUR SAFETY IS INVOLVED!**

Carefully read, and follow the safety message accompanying this symbol.

Why is safety important to you?

- Accidents disable and kill.
- Accidents cost.
- Accidents can be avoided.



Figure 1.1: Read operator's manual before operating

1.3 Diagnostic Safety

To ensure your safety, and that of everyone else around, familiarize yourself with all safety recommendations provided in the windrower and header operator's and technical manuals before attempting to diagnose problems. In addition, pay particular attention to the following warnings and cautions which are specific to using the Can Convertor.

CAUTION

To avoid bodily injury or death from unexpected startup of machine, always stop engine and remove key from ignition before leaving operator's seat for any reason.

CAUTION

Before connecting the Can Convertor, park the windrower and ensure that all bystanders have cleared the area.

CAUTION

While using the Can Convertor kit, an Operator must be seated in the operator's seat in the cab at all times.

CAUTION

When using the remote control feature, the Operator can force any or all of the drive functions (draper, reel, knife/disc) to zero speed even with the header Engaged switch still in the ON position (that is, the header drives could appear to be OFF even though the header switch is still ON).

2 Operation

2.1 CanWin Service Tool

In order to use the Can Convertor, you must have CanWin Service Tool (the CanWin software program) installed on a laptop computer. For information about downloading and using CanWin Service Tool, see the windrower technical manual.

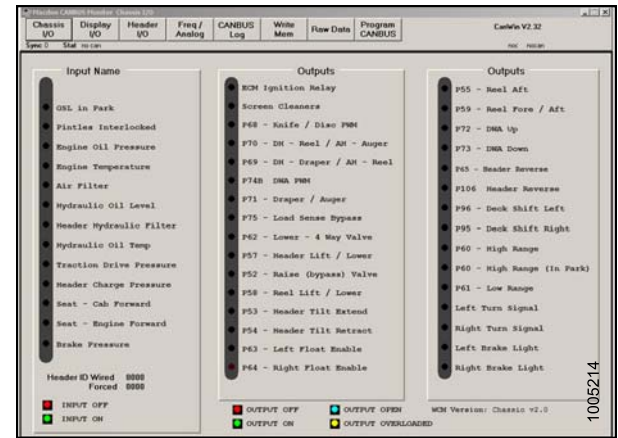


Figure 2.1: CanWin Service Tool – Chassis I/O Page

2.2 Connecting Can Converter

In order to use the Can Converter kit, you must connect it to the windrower and to a laptop with CanWin Service Tool installed on it.

To connect the kit, follow these steps:

1. One end of the Can Converter is labelled **COMPUTER USB PORT**. Connect the USB port connection (A) on this end to a USB port on the laptop.
2. Plug the Can Converter's 9-position connector into the 9-position Deutsch diagnostic connector (A) on the front of the operator's console in the windrower cab.
3. Activate CanWin Service Tool on the laptop.

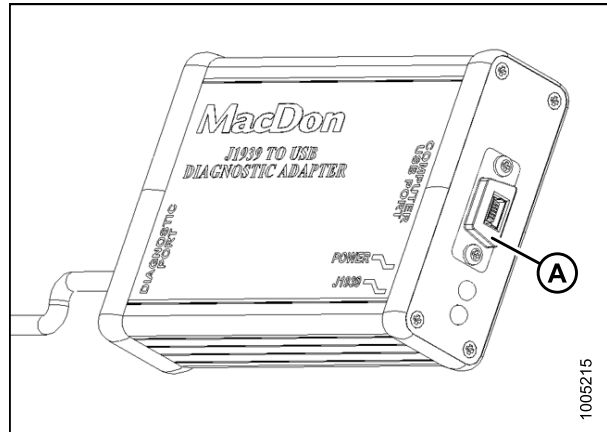


Figure 2.2: Can Converter

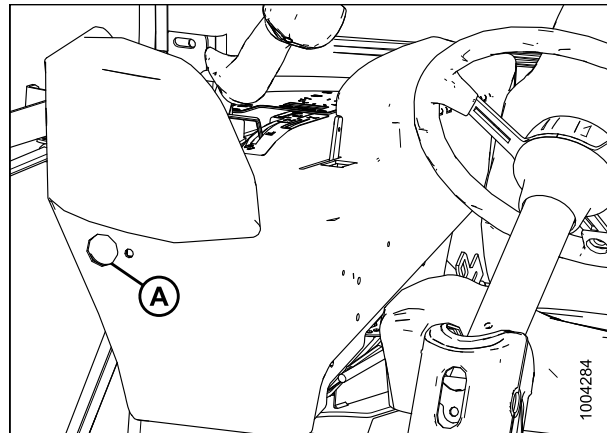


Figure 2.3: Windrower Cab

3 Specifications and Product Components

3.1 P1 Diagnostic Port Connection Specifications

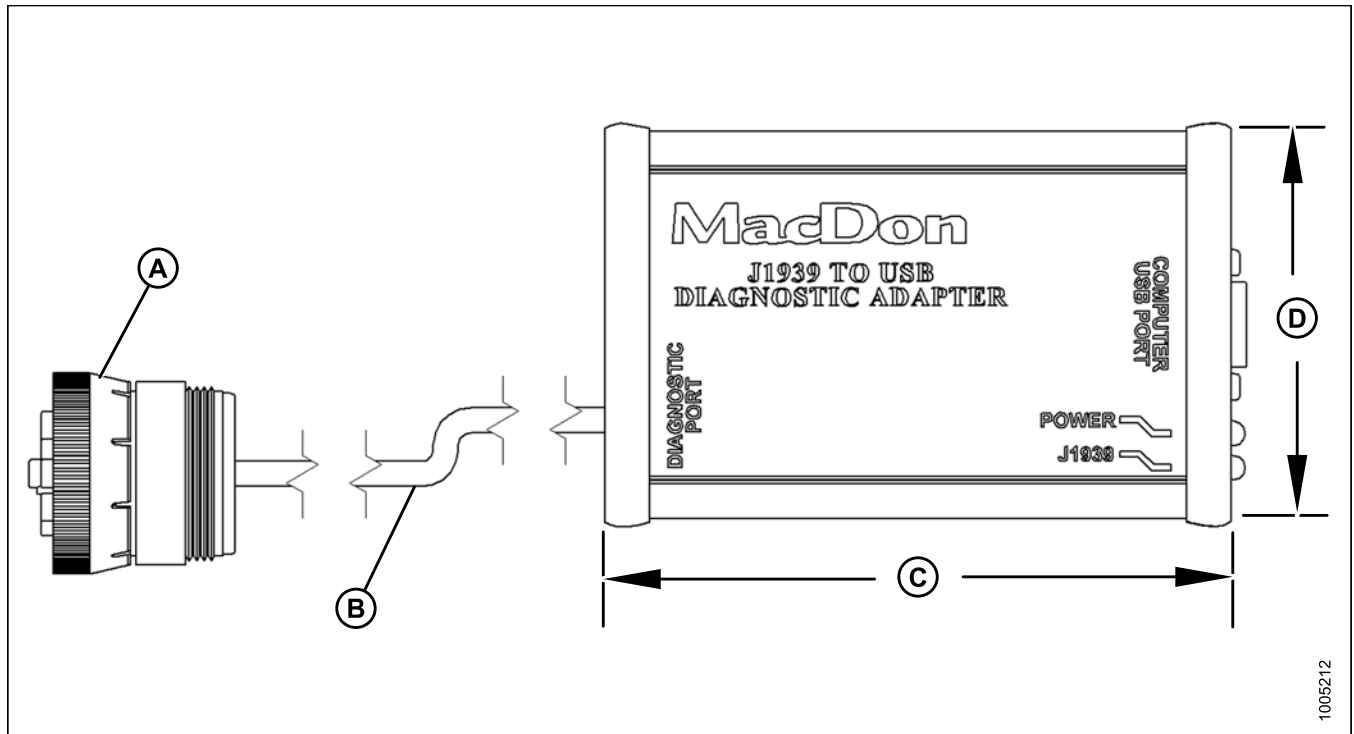


Figure 3.1: Can Convertor

A - Diagnostic Port Connection

B - Cable Length Approx. 1120 mm (44-1/16 in.)

C - 126 mm (4-15/16 in.)

D - 78 mm (3-1/16 in.)

Power Requirements:

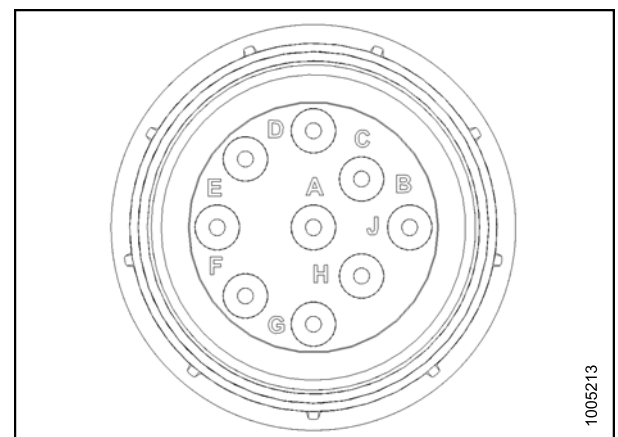
Input Voltage: 10–18 Vdc

NOTE:

An internal 0.25 amp self-resetting fuse will disable the unit if the input voltage is greater than 18 Vdc for more than 2 seconds. To reset the adapter module, disconnect the diagnostic plug from the power source for 10 seconds, and then reconnect.

Current - Nominal: 30–40 mA

Load on CAN Bus pins is 1000 ohms.



**Figure 3.2: Can Convertor Plug
(Deutsch #HD16-9-1939S, MD #134044)**

SPECIFICATIONS AND PRODUCT COMPONENTS

| Position Number | Function | Description |
|-----------------|------------|---------------------------|
| A | Ground | System ground |
| B | Power (V+) | +12 Vdc (battery) |
| C | CAN high | J1939 CAN high signal |
| D | CAN low | J1939 CAN low signal |
| E | CAN shield | J1939 CAN shield (ground) |
| F | N/C | |
| G | N/C | |
| H | N/C | |
| J | N/C | |

3.2 P2 USB Port Connection (Mini USB "B") Specifications

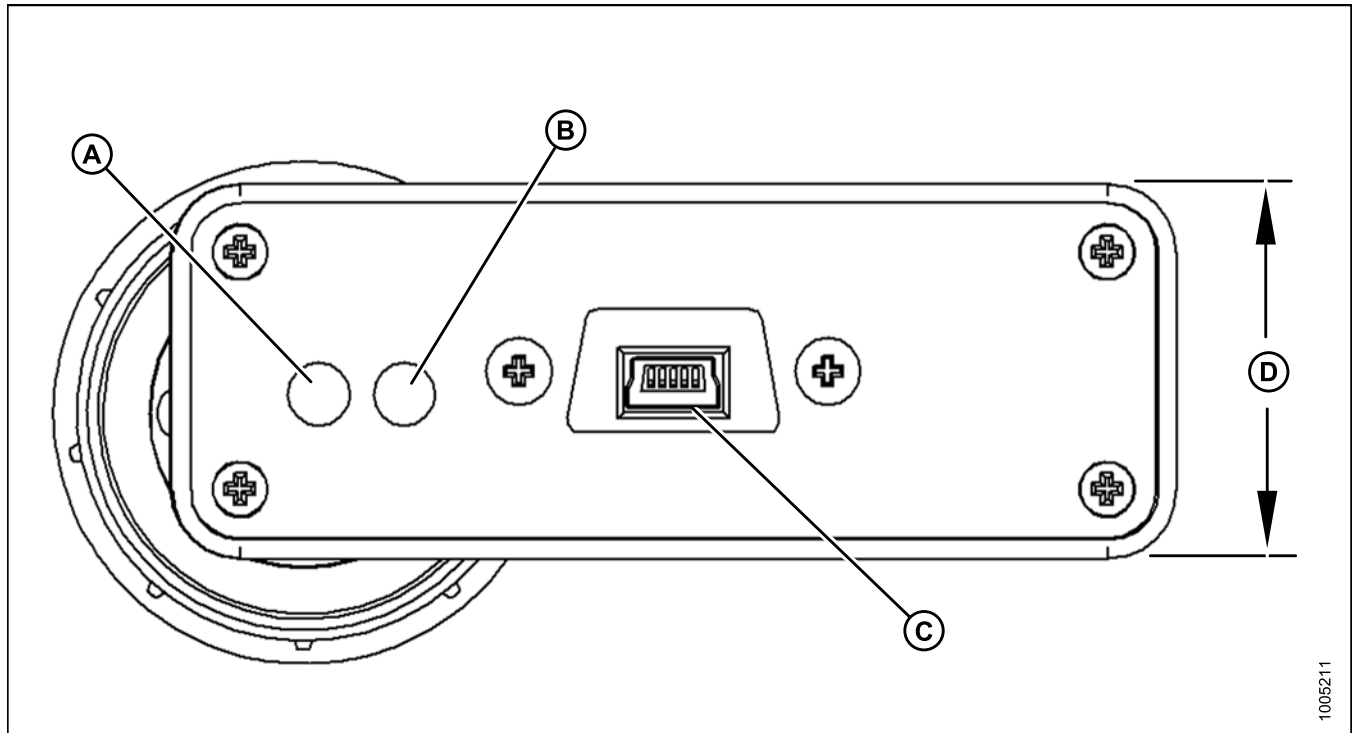


Figure 3.3: End of Can Convertor

A - J1939 Activity LED

B - Power LED

C - USB Port Connection (Computer)

D - 30 mm (1-3/16 in.)

| Position Number | Function | Description |
|-----------------|---------------|---|
| 1 | Power | VBUS – USB Power – from the USB host or hub |
| 2 | Bidirectional | D- = USB data signal, negative polarity |
| 3 | Bidirectional | D+ = USB data signal, positive polarity |
| 4 | ID | Not connected |
| 5 | Ground | GND = USB signal ground |
| Shield | Case ground | Drain – Typically connected to the host PC case |

| Parameter | Description | Min. | Typical | Max. | Units | Conditions |
|-----------|---------------|------|---------|------|-------|---|
| USB_VCC | Input voltage | 4.25 | 5.0 | 5.25 | Vdc | Typical voltage is present when the USB cable is attached and the USB host or hub is powered. |
| Icc | USB current | | 30 | 50 | mA | |

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