

Assembly Instructions

Basic Vehicle Harness - with Rear Socket (without Tractor-ECU)

Version: V4.20160503



30322554-02-EN

Read and follow these operating instructions.

Keep these operating instructions in a safe place for later reference.

Company details

Document	Assembly Instructions Product: Basic Vehicle Harness - with Rear Socket (without Tractor-ECU) Document number: 30322554-02-EN Original language: German
Copyright ©	Müller-Elektronik GmbH & Co.KG Franz-Kleine-Straße 18 33154 Salzkotten Germany Phone: ++49 (0) 5258 / 9834 - 0 Fax: ++49 (0) 5258 / 9834 - 90 Email: info@mueller-elektronik.de Homepage: http://www.mueller-elektronik.de

Table of contents

1	For your safety	4
1.1	Basic safety instructions	4
1.2	Intended use	4
1.3	Layout and meaning of warnings	4
1.4	Disposal	5
2	Product description	6
3	Assembly instructions	7
3.1	Install the ISOBUS socket	7
3.2	Connect the battery cable	7
3.3	Connect the basic vehicle harness with a terminal	8
3.4	Insert the ISOBUS plug	9
3.5	Using the dust protection cap	9
4	Technical specifications	10

1 For your safety

1.1 Basic safety instructions



Carefully read the following safety instructions before installing the basic vehicle harness.

- Only install the product if you are specially trained in the field of electronics. Otherwise, ask an expert.
- Install the product as described in these instructions.
- Replace defective fuses only with fuses with the same amperage.

1.2 Intended use

The product is intended exclusively for use in agriculture. The manufacturer shall not be held responsible for any other use of the system.



The manufacturer cannot be held liable for any personal injury or property damage resulting from such non-compliance. All risk arising from improper use lies with the user.

The operating instructions form part of the product. The product may only be used in accordance with these operating instructions.

All applicable accident prevention regulations and all other generally recognized safety, industrial, and medical standards as well as all road traffic laws must be observed. Any unauthorized modifications made to the equipment will void the manufacturer's warranty.

1.3 Layout and meaning of warnings

All safety instructions found in these Operating Instructions are composed in accordance with the following pattern:

	 WARNING
	<p>This signal word identifies medium-risk hazards, which could potentially cause death or serious physical injury, if not avoided.</p>

	 CAUTION
	<p>This signal word identifies hazards that could potentially cause minor or moderate physical injury or damage to property, if not avoided.</p>

NOTICE

This signal word identifies hazards that could potentially cause damage to property, if not avoided.

There are some actions that need to be performed in several steps. If there is a risk involved in carrying out any of these steps, a safety warning will appear in the instructions themselves.

Safety instructions always directly precede the step involving risk and can be identified by their bold font type and a signal word.

Example

1. **NOTICE! This is a notice. It warns that there is a risk involved in the next step.**
2. Step involving risk.

1.4**Disposal**

When it has reached the end of its service life, please dispose of this product as electronic scrap in accordance with all applicable waste management laws.

2 Product description

With the ISOBUS basic vehicle harness, you can establish an interface on the tractor between the terminal and the ISOBUS job computer of the agricultural implement. This allows you to transmit data between the terminal and the job computer.

Scope of delivery

The basic vehicle harness consists of the following parts:

- ISOBUS socket
- Sub-D cable for connection to a terminal
 - 3m cable length with basic vehicle harness 30322554
 - 8m cable length with basic vehicle harness 3032255701
 - 8m cable length with basic vehicle harness 3032255702
- Battery cable with fuse holder for connection to the vehicle battery
- Enclosures pack with parts for installing the components

3 Assembly instructions

For installation, you must perform the following steps:

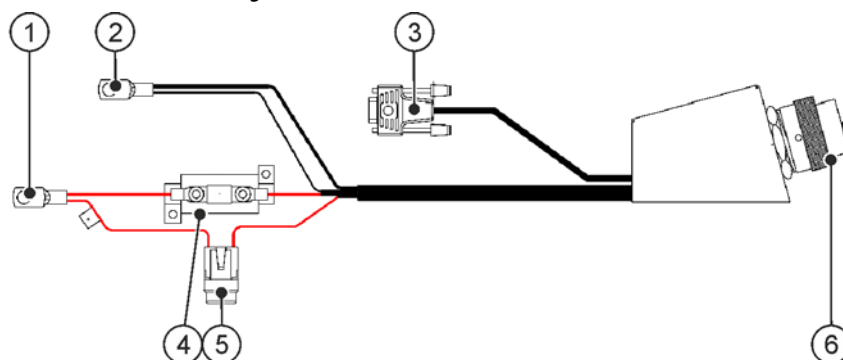
- Install the ISOBUS socket
- Connect the battery cable
- Connect the basic vehicle harness with a terminal
- Insert the ISOBUS plug
- Use the dust protection cap

3.1 Install the ISOBUS socket

Procedure

1. Install the ISOBUS socket firmly on the outside of your vehicle at an accessible location. Use all 4 bolts. Pay attention to the cable length of 3 metres for connection to the terminal later.

3.2 Connect the battery cable



①	Ring tongue for connection to the positive terminal of the vehicle battery	④	Prepared fuse holder with 50A fuse
②	Ring tongue for connection to the negative terminal of the vehicle battery	⑤	Prepared fuse holder with 15A fuse
③	Terminal connection cable	⑥	ISOBUS socket


⚠ WARNING
Risk of injury caused by short circuit

Connecting the positive terminal and the vehicle mass when working on the battery terminals can cause a short circuit. This can cause burn injuries to persons.

- When working on the battery terminals, ensure that no connection is created between the vehicle battery and the vehicle mass.
- Remove metallic items such as watches and rings before starting work.
- When disconnecting the terminals, always begin with the negative terminal.
- Always begin reconnecting the terminals with the positive terminal.


⚠ WARNING
Danger of injury from explosion of the vehicle battery

If the battery terminals are loose fitting, starting the vehicle can cause the vehicle battery to overheat. The vehicle battery may then explode.

- Always tighten the battery terminals firmly after assembly.

NOTICE
Damage to the vehicle's electrical system

Switching the polarity of the cables can cause damage to the vehicle's electrical system.

- Pay attention to the polarity of the cable cores and the terminals!

Procedure

To connect the battery cable:

- ☒ The vehicle is switched off.

1. Connect the ring tongue to the battery terminal of the vehicle battery. Pay attention to the polarity, start with the positive terminal.
2. Fasten the battery cable with the cable ties. You may not shorten the cable. When fastening, pay attention to sufficient distance from moving parts and parts that get very hot.

3.3
Connect the basic vehicle harness with a terminal
Procedure

1. Connect the terminal connection cable to the terminal. For the majority of terminals from Müller-Elektronik, this is going to be port A.
2. Fasten the terminal connection cable with the cable ties. You may not shorten the cable. When fastening, pay attention to sufficient distance from moving parts and parts that get very hot.

3.4

Insert the ISOBUS plug

Procedure

1. Insert the ISOBUS plug into the ISOBUS socket and turn to tighten firmly.



2. Connect the dust protection caps of the ISOBUS plug and the ISOBUS socket:



3.5

Using the dust protection cap

Always keep the dust protection cap closed if you do not have a job computer connected to the ISOBUS socket.



Left: open; right: closed

4 Technical specifications

Basic vehicle harness 30322554

Operating voltage	9-16 V
Operating temperature	-20 – +70°C
Maximum output current on plug A	2.4A

Basic vehicle harness 3032255701/3032255702

Operating voltage	9-16 V
Operating temperature	-20 – +70°C
Maximum output current on plug A	1.1A