

# Installation Guide

Installation Kit: 911-8101-10



**Versatile**

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For all 2015 and newer steer ready Versatile MFWD tractors. Requires factory wheel angle sensor and factory pressure transducer. See notes below about different pressure transducer options.

Factory installed pressure transducer supported by this installation.

If your machine previously had Outback Guidance autosteer installed it may have transducer pictured below. If using this transducer, then 051-0461-10 harness must be ordered separately.



# Introduction

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## **WARNING!!!**

**Unexpected machine movement may occur when creating a new machine profile, switching machine profiles, changing valve type setting, or connecting a terminal with a different machine profile active.**

**Ensure the 3 position power switch is in the center (roading) position before performing any of the above operations until the proper machine profile and valve type is selected.**

The procedures outlined in this guide provide the basic installation procedure for the eDriveM1 on the machines specified on the front cover of this guide. If you do not see your machine listed, contact customer support for further instruction. The kit components and corresponding install instructions are designated for each applicable machine make and model and may not be used on undesignated machine models.

### **Review Installation Kit Contents**

Kit contents are outlined in the following pages of this installation guide. Read all applicable installation instructions for your machine's model and ensure that all required kit components are present before beginning the installation.

### **Read and Follow All Safety Messages**

- Refer to the safety manual for the machine that the eDriveM1 is being installed on for operating age and precautions.
- Prior to installing and operating the eDriveM1, read and understand all safety precautions as outlined in this guide.
- Store this guide and all related safety information with related machine manuals for future reference.

# Introduction

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## **Safety Information and Warnings\***

- eDriveM1 is NOT designed to replace the machine's operator and is designed as a driving aid for use in precision agriculture applications.
- eDriveM1 is NOT intended for use on roadways and should remain disengaged at all times when traveling on roadways.
- eDriveM1 does NOT control the speed of the machine and a human operator is required to manually maintain a safe operating speed.
- eDriveM1 does NOT avoid obstacles. To prevent human, machine and property injury a human operator is required to operate the machine at all times.
- Do NOT allow anyone to operate without instructions.
- At all times the driver is fully responsible for the safe operation of the vehicle.

\* The safety warnings contained in this installation guide are not meant to be an exhaustive list of potential hazards.

- To ensure peak performance, eDriveM1 should only be installed after a thorough machine inspection has been conducted. The contents of this kit and eDriveM1 are not intended to replace preventative and or needed maintenance. To avoid bodily and machine injury, follow the machine preparation checklist below:
  - ⇒ Inspect steering linkage: Machine should drive in a straight line without manual correction
  - ⇒ Turn off machine and power-off all electronic gauges, monitors and external devices when installing or performing maintenance on the eDriveM1
  - ⇒ Park machine on a clean and level surface
  - ⇒ Lower all implements and headers to the ground
  - ⇒ Apply the parking break and chock wheels
  - ⇒ Inspect any drilling and/or cutting sites to ensure no electrical wiring damage will be incurred

# ECU installation

Required items for ECU install listed below

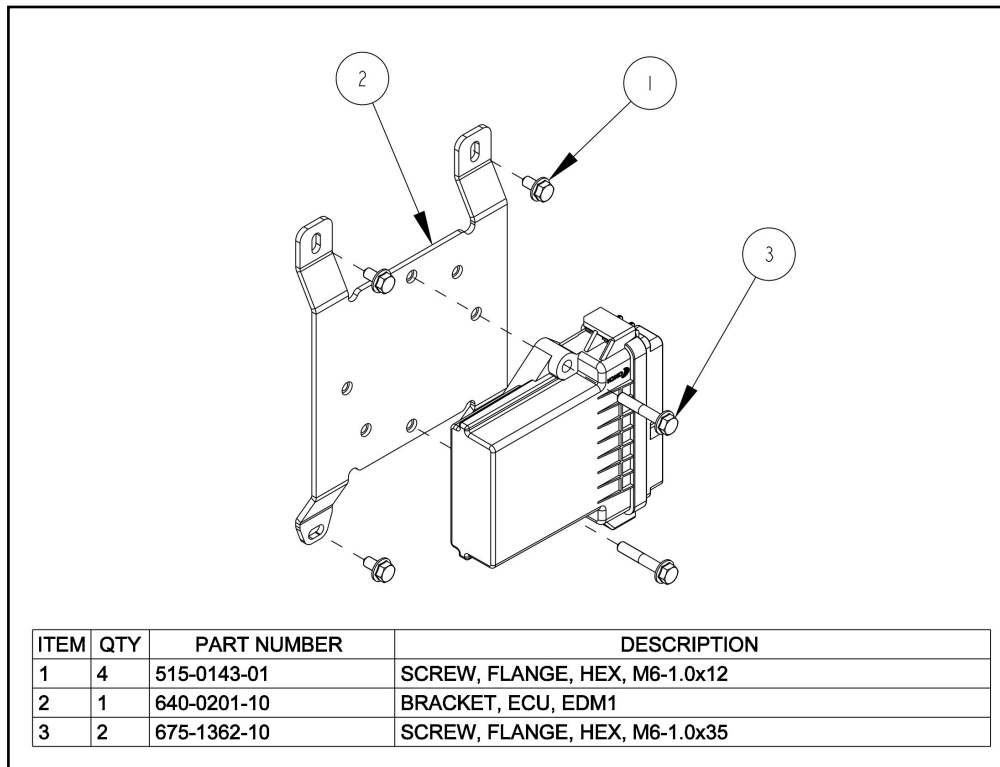


Figure 1

Remove the plastic panel to the right of the operators seat to gain access to the ECU mounting location.



Figure 2

# ECU installation

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Install the bracket (item 2) using the (item 6) M6 bolts



Figure 3

Attach the eDriveM1 steering ECU to the bracket using included hardware (items 1&2)

Logo left connector rear.

## Note!!

You may have to install the two main harnesses to the ECU before you attach the ECU to the bracket.



Figure 4

# Cabling Diagram

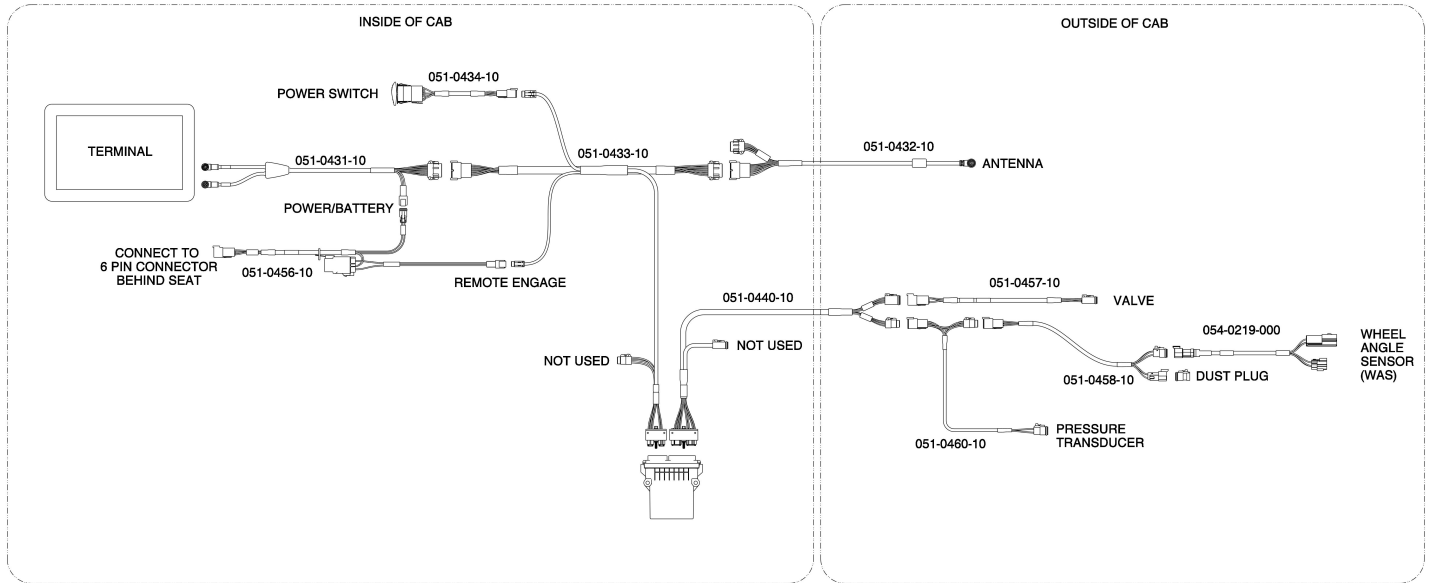


Figure 5

## Cabling Connections - Outside of Cab

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Connect the 051-0440-10 harness to the eDriveM1. Take the free end of the harness and route it through the cab passthrough opening located in the back right corner under the back window. You will connect the end of this harness to other harnesses behind the cab later in this installation.



Figure 6

Find the 3 pin factory wheel angle sensor connection located on top of the front axle above the driveshaft.

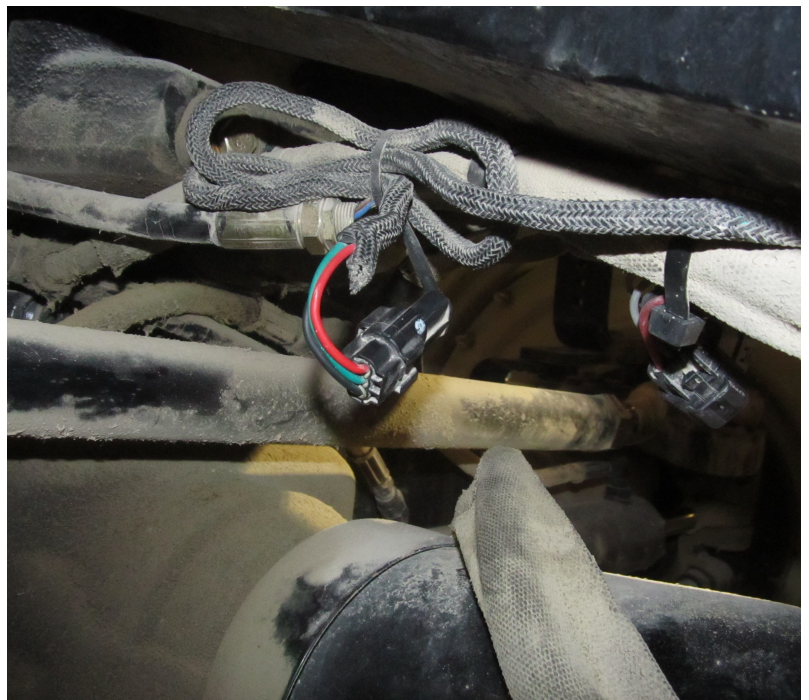


Figure 7

## Cabling Connections - Outside of Cab

Disconnect the 3 pin connector and connect the 054-0219-000 WAS splitter harness into the connection you just disconnected. Route the harness along the tractor frame and secure out of the way to avoid damage to the harness. Bring the harness up to the back right corner of the tractor cab near the SCV stack.



Figure 8

Locate the Danfoss steering valve. It will be located under the cab next to the right rear tire of the tractor

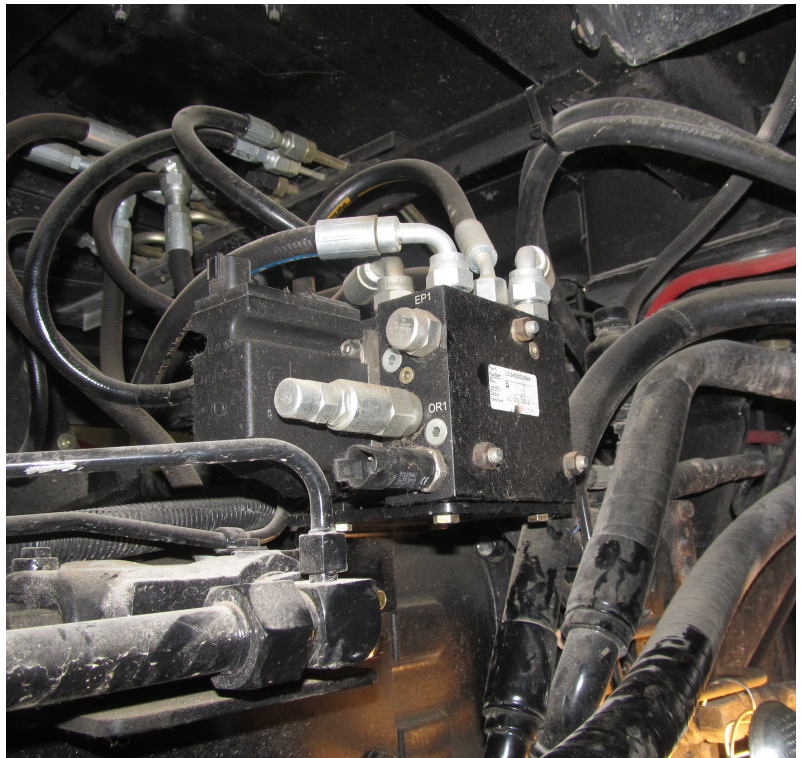


Figure 9



## Cabling Connections - Outside of Cab

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Connect the 051-0460-10 pressure transducer harness to the factory installed pressure transducer.



Figure 10

Connect the 051-0457-10 valve harness to the Danfoss steering valve.

Route all the harnesses up to the back of the right corner of the cab to make the harness connections.

Connect all remaining harness ends per diagram on page 6 (figure 5)

This completes the out of cab connections required for this install.



Figure 11

## Cabling Connections - Inside of Cab

Next we will connect the in cab power and remote engage harness. Locate the 6 pin Deutsch DT connector in the rear compartment behind the seat.

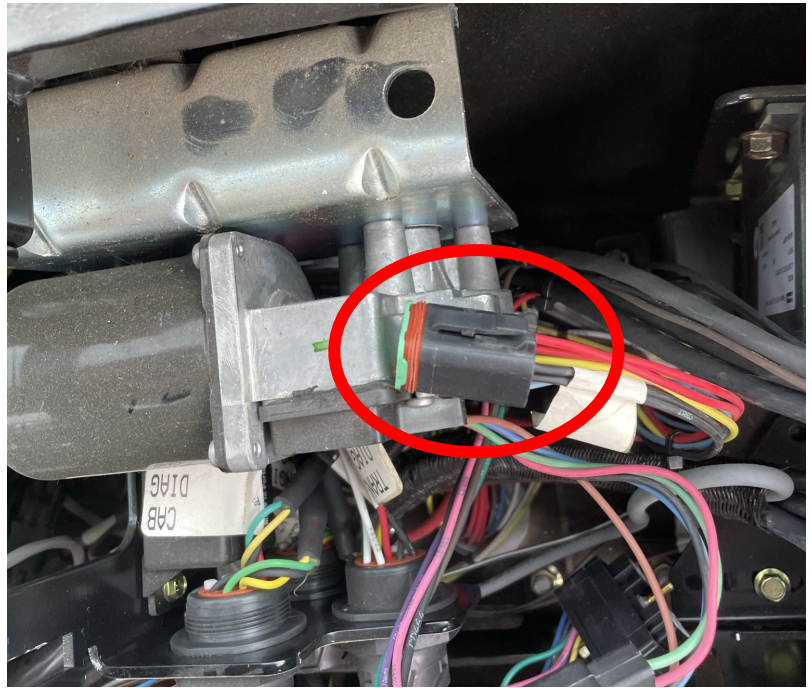


Figure 12

Connect the 051-0456-10 power/remote engage harness to the 6 pin Deutsch connector.

Connect all remaining harness ends per diagram on page 6 (figure 5)

This concludes all the cable connections for this install.

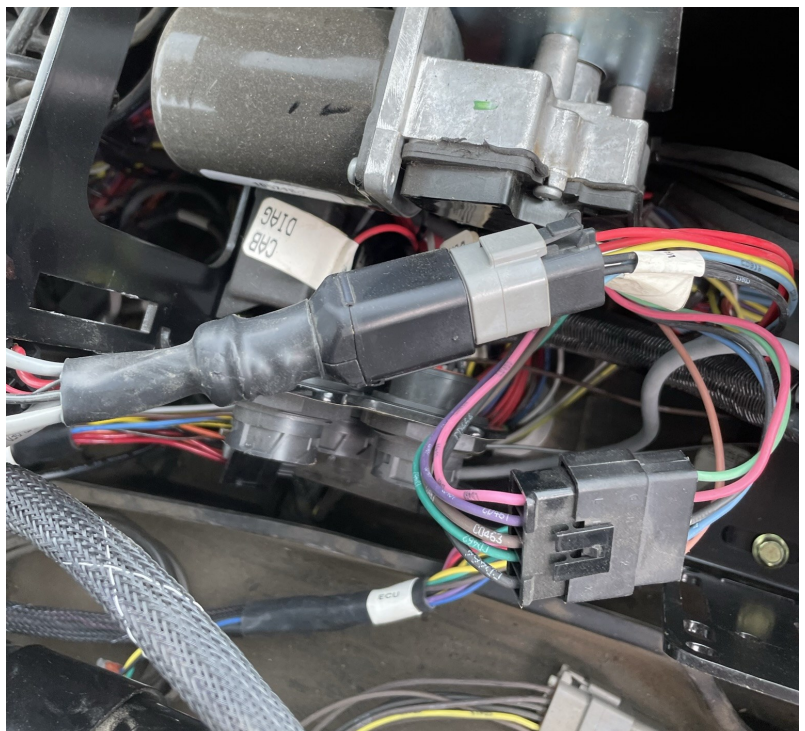


Figure 13

# Initial Setup

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When creating a new machine in your Maverix terminal, you will need to select “Hyd. Ratiometric” for your machines valve type. To setup the disengage sensor you will use the “Automatic Detection” feature. This will calibrate the disengage sensor and select “Analog (Volt.)” as the correct disengage sensor for your machine.

## Troubleshooting & Diagnostics

**To read the voltage values coming from the factory wheel angle sensor and or disengage pressure transducer refer, to the terminal user guide to see where to read sensor diagnostic information.**

### Wheel Angle Sensor

The factory wheel angle sensor has a voltage output range or 0-5 volts. You should be able to see the wheel angle voltage change as you turn the tractor from full left lock to full right lock. If the voltage doesn't go up or down when turning the steer wheel then there may be a problem with the factory wheel angle sensor.

### Disengage Pressure Transducer

The factory disengage pressure transducer has a voltage output range or 0-5 volts. You should be able to see the voltage value increase when turning the steering wheel then the voltage should decrease and stabilize after the steering wheel is no longer turned.