INSTALLATION INSTRUCTIONS

Autopilot

automated steering system

CaseIH Combines

- 7260
- 8260
- 9260

PTx Trimble

Version 10.00
Revision A
March 2026
P/N 54038-26-E10

Legal Notices

Agriculture Business Area

PTx Trimble LLC
10368 Westmoor Drive
Westminster, CO 80021-2712
USA
ptxtrimble.com

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Release Notice

This is the March 2026 release (Revision A) of the *Autopilot Automated Steering System Installation Instructions*, part number 54038-26-E10. It applies to Version 10.00 and later of the Autopilot automated steering system.

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Safety Information

Always follow the instructions that accompany a Warning or Caution. The information they provide is intended to minimize the risk of personal injury and/or damage to property. In particular, observe safety instructions that are presented in the following format:

DANGER! ALERTS YOU TO A SITUATION THAT IS LIKELY TO RESULT IN DEATH OR SERIOUS INJURY.

WARNING – This alert warns of a potential hazard, which, if not avoided, can cause severe injury.

CAUTION – This alert warns of a hazard or unsafe practice which, if not avoided, can cause injury or damage.

NOTE – An absence of specific alerts does not mean that there are no safety risks involved.

Warnings

DANGER! WHEN YOU ARE WORKING ON THE VEHICLE'S HYDRAULIC SYSTEMS, VEHICLE ATTACHMENTS THAT ARE SUSPENDED CAN DROP. IF YOU ARE WORKING AROUND THE VEHICLE, YOU COULD SUFFER SERIOUS INJURY IF AN ATTACHMENT DROPPED ON YOU. TO AVOID THIS RISK, LOWER THE BOOM TO THE LOWEST POSITION BEFORE YOU BEGIN WORK.

DANGER! IF SOMEONE ELSE ATTEMPTS TO DRIVE THE VEHICLE WHILE YOU ARE WORKING ON OR UNDER IT, YOU CAN SUFFER SERIOUS OR FATAL INJURIES. TO AVOID THIS POSSIBILITY, INSTALL A LOCKOUT BOX ON THE BATTERY TERMINAL TO PREVENT THE BATTERY FROM BEING RECONNECTED, REMOVE THE KEY FROM THE VEHICLE'S IGNITION SWITCH, AND ATTACH A "DO NOT OPERATE" TAG IN THE CAB.

DANGER! VEHICLE CABS CAN BE QUITE HIGH IN THE AIR. TO AVOID POTENTIALLY SERIOUS INJURY THROUGH FALLING FROM THIS HEIGHT, ALWAYS USE THE STEPS AND HANDRAILS, AND FACE THE VEHICLE, WHEN YOU ENTER OR EXIT IT.

WARNING – Agricultural chemicals can pose serious health risks. If the vehicle has been used to apply agricultural chemicals, steam clean the vehicle to remove any chemical residue from the areas of the vehicle where you will be working.

WARNING – Always wear protective equipment appropriate to the job conditions and the nature of the vehicle. This includes wearing protective glasses when you use pressurized air or water, and correct protective welder's clothing when welding. Avoid wearing loose clothing or jewelry that can catch on machine parts or tools.

WARNING – Parts of the vehicle may be under pressure. To avoid injury from pressurized parts, relieve all pressure in oil, air, and water systems before you disconnect any lines, fittings, or related items. To avoid being sprayed by pressurized liquids, hold a rag over fill caps, breathers, or hose connections when you remove them. Do not use your bare hands to check for hydraulic leaks. Use a board or cardboard instead.

Cautions

CAUTION – Damage will result to the cable if it is not routed correctly. When routing cables be sure to route them free from areas that may result in damage to the cables including pinching, stretching and rubbing.

CAUTION – Do not direct pressurized water at:
- Electronic or electrical components or connectors
- Bearings
- Hydraulic seals
- Fuel injection pumps
- Any other sensitive parts or components



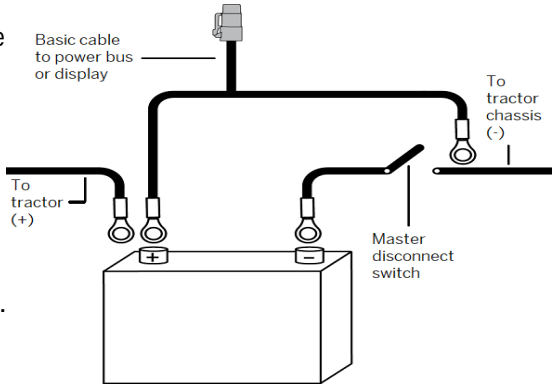
Set the hose pressure as low as practicable, and spray at a 45° to 90° angle. Keep the nozzle of the power washer away from the machine at the distance recommended by the manufacturer.

CAUTION – To prevent damage to the system, make sure that no wires interfere with or catch on any mechanical linkages, or contact any machine parts that get hot.

CAUTION – Before you drill any holes, check behind the drilling surface to ensure that you will not damage any hoses, wires, or other equipment. Failure to do so could result in damage to the vehicle.

CAUTION – If the vehicle has a master electrical disconnect, make sure the basic power cable (P/N 67258/92905) is ***not*** directly attached to the battery terminal that is disconnected by the master switch - the negative pole in this example.

Attach this terminal side just past the main disconnect so that it is as close as possible to the battery but still gets disconnected when the master disconnect is turned off. Failure to do so can result in damage to the display.



CAUTION – To route the cable, use existing hydraulic hoses, cable harnesses, etc. Pay attention to moving parts. In such places, the cable must be secured with a margin so that the cable is not damaged during movement.

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1

Introduction

- Technical assistance
- Manual system upgrade to the Autopilot system
- Preparing the vehicle for installation

This manual describes how to install the platform specific components of the Trimble® Autopilot™ automated steering system.

For installation of the GFX display and NAV-9xx guidance controller please review the separate display and NAV controller installation guide.

Even if you have used another GNSS (Global Navigation Satellite System), such as the United States' GPS (Global Positioning System), before, spend some time reading this manual to learn about the special features of this product. If you are not familiar with GNSS, go to the Trimble website (trimble.com) for an interactive look at Trimble and GNSS.

Technical assistance

Go to the Ag Resource Center for the latest support information, including:

- support notes detailing support issues
- documentation
- the latest files available for download

If you still cannot find the information that you need, contact your PTx Trimble reseller.

Manual system upgrade to the Autopilot system

Displays

Retain
GFX display: P/N 13x000-01 **NAV-960™ guidance controller: P/N 131800-04** **NAV-900 guidance controller: P/N 108993-05**
Power cable GFX display: P/N 110551 Base power cable: P/N 67258 GFX display to NAV-9x0 comms cable: P/N 110540

Required components

Kits required	Special tools
Platform kit: P/N 54038-26	5/16" drill bit and sheet metal cutting tool Allen wrench set (metric and SAE) DEUTSCH DTM crimp tool Right angle drill or right angle extension #25 Torx driver

Antenna mounting kits

Antenna options
CNH Quick Release bracket, NAV-960 – P/N 132088 CNH Quick Release bracket, NAV-900 – P/N 128606

Accessory kits

Accessory options
Remote engage switch assembly – standard Euro: P/N 57227-10 Remote engage switch assembly – full Euro: P/N 57227-20 Remote engage push button: P/N 101250 Remote engage foot pedal: P/N 57259Hardware

Preparing the vehicle for installation

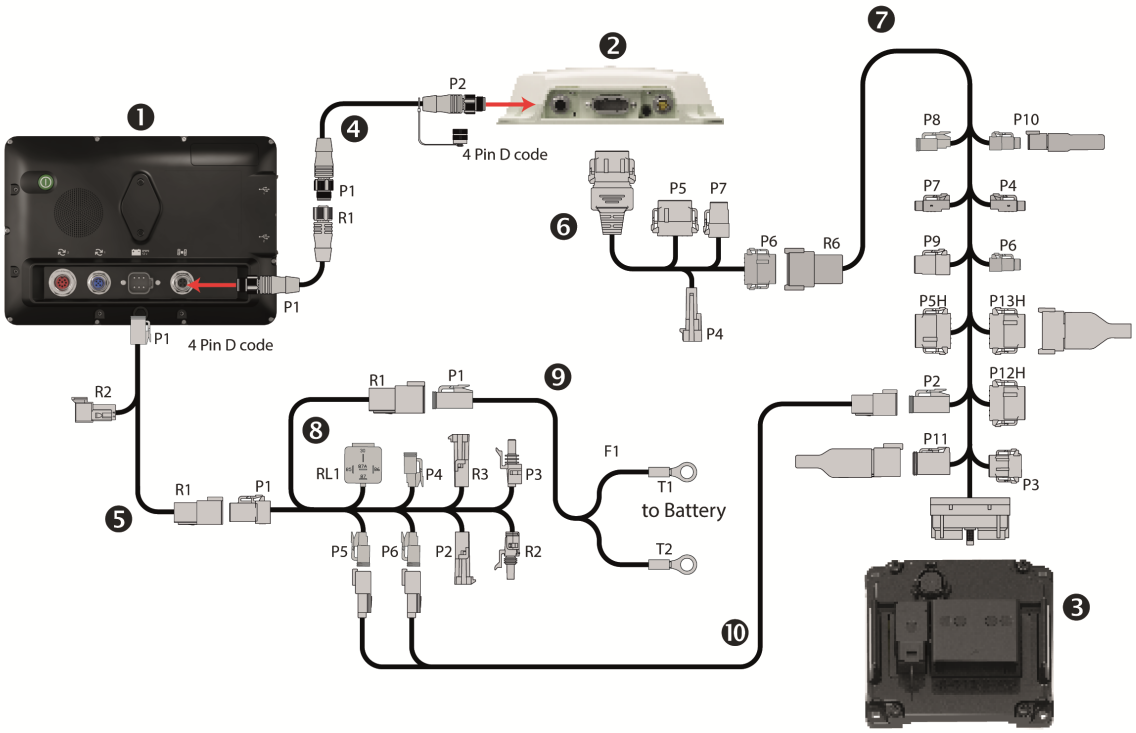
1. Park the vehicle on a hard, level surface. Block the front and rear wheels.
2. Align the steering straight ahead. On an articulated vehicle, install the articulation locks.
3. Remove all dirt and debris from the areas of the vehicle where the system will be installed.
4. Open all kit boxes and check the contents of the box against the packing list/s. Lay all of the parts out on a clean workbench.

NOTE – The left and right sides of the vehicle are referenced while standing behind the unit, facing the normal direction of travel.

TIP – Read through the steps and make certain you have all the hand tools needed before starting installation.

2

System components



Item	Description	P/N
1	GFX display, with PIQ App	13x000-01
2	NAV-960 guidance controller	131800-04
3	VDM-912 hydraulic valve driver module	
4	Cable Assy, GFX to NAV, Power/Ethernet (BRR), 5 m	110540
5	Cable Assy, GFX, Power to display, CAN, 2.5 m	110551
6	Cable Assy, NAV-9x0, CAN ISO to cab Guidance, 4 m	110550
7	Cable Assy, VDM-9xx, Main	116982
8	Cable Assy, GFX, Power with Relay and Switch (Acc)	67259
9	Cable Assy, GFX, Basic Power, 4 m	67258
10	Cable Assy, VDM-9xx, PWR	116985

3

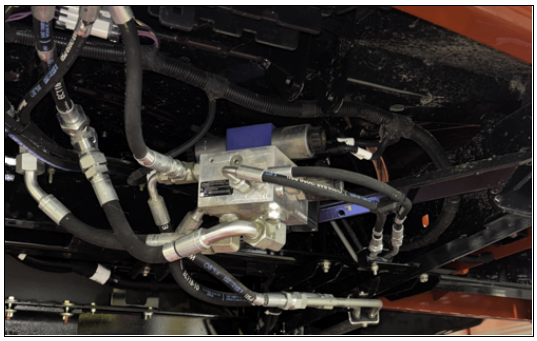
AccuGuide Component Connections

- Introduction
- Valve connections
- Installing the manual override adapter cable

Introduction

Before you start to connect the components, check that machine has an AccuGuide steering valve.

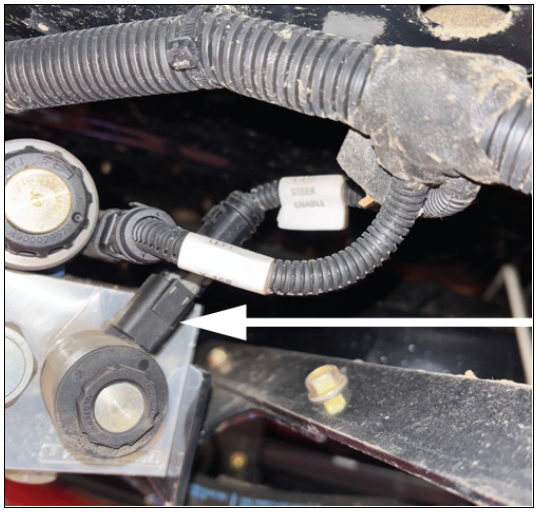
The AccuGuide steering valve is located under the cab.

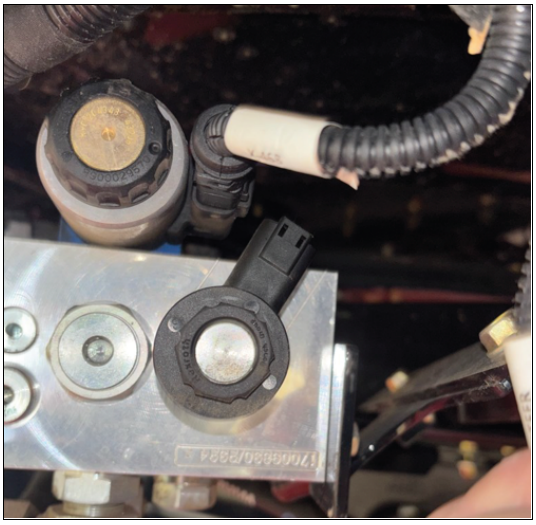


Valve connections

Step 1

Locate the Steer Enable solenoid on the left side of the valve and disconnect the machine connector from the solenoid.





Step 2

Locate the phantom coil P/N 102252 and remove the two adapter cables from the coils.

Plug the 2-pin machine harness connector into one of the phantom coils.

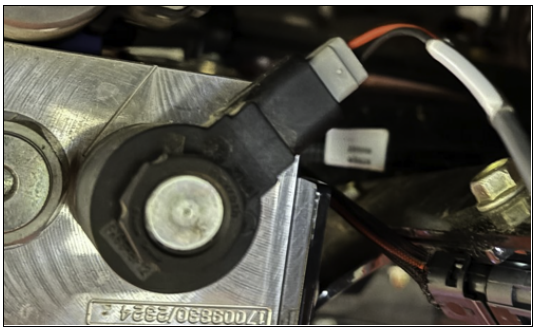
Secure the phantom coil to the machine using a zip tie.



Step 3

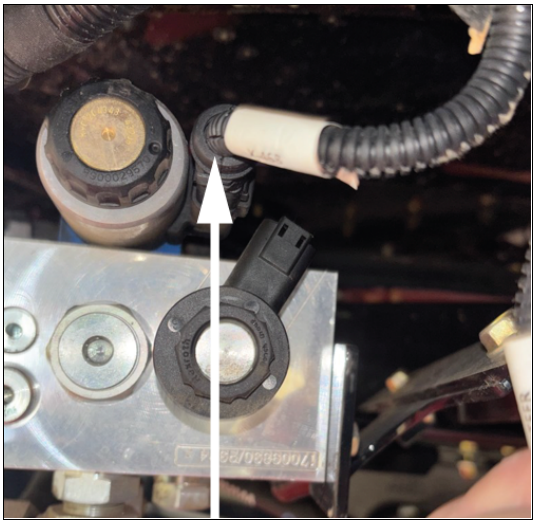
Locate cable P/N 117856-3 and plug P2 into the Steer Enable solenoid.

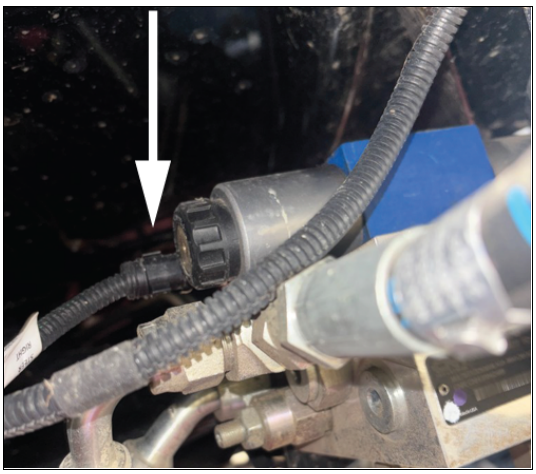
Route the R1 connector on cable P/N 117856-3 into the cab and then connect it to P9 on the VDM-912 cable P/N 116982.



Step 4

Locate the left and right steering valve connectors and disconnect them from the steering valve.





Step 5

Locate the phantom coil P/N 102252 and remove the two adapter cables from the coils.

Plug the left and right machine harness connectors into each of the phantom coils.

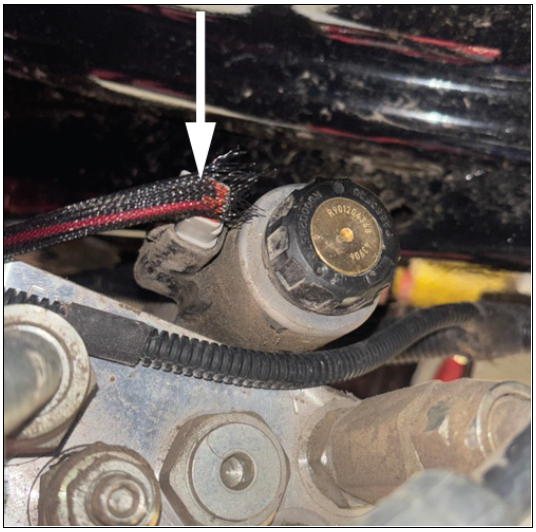
Secure the phantom coil to the machine using a zip tie.

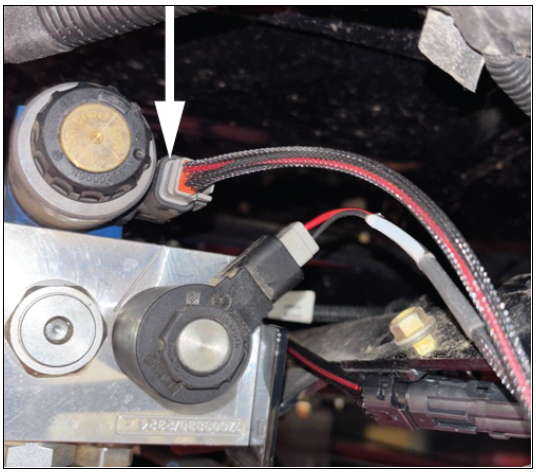


Step 6

Locate the valve adapter cable P/N 129917 and plug the P1 and P2 connectors into the left and right solenoids on the steering valve.

Route the R1 connector on cable P/N 129917 into the cab and connect it to P8 on the VDM-912 cable P/N 116982.

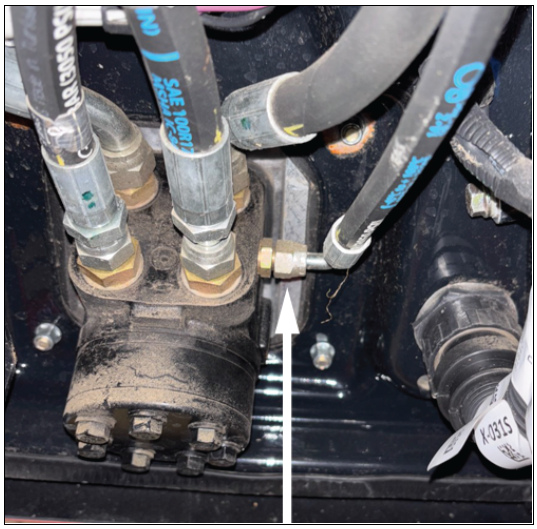




Installing the manual override adapter cable

Step 1

Locate the load sense line on the steering hand pump.



Step 2

Locate the hydraulic diagnostic fitting P/N 133889 and the pressure transducer P/N 49669.

Install the pressure transducer into the diagnostic tee fitting prior to installation to the machine.

Connect the #4 ORFS swivel fitting to the steering hand pump fitting.

Connect the diagnostic tee fitting to the load sense hose.



Step 3

Connect P2 of cable P/N 54618 to the pressure transducer.

Route the R7 connector on cable P/N 54618 into the cab and then connect it to P7 on the VDM-912 cable P/N 116982.

Use zip ties to secure the cable.



4

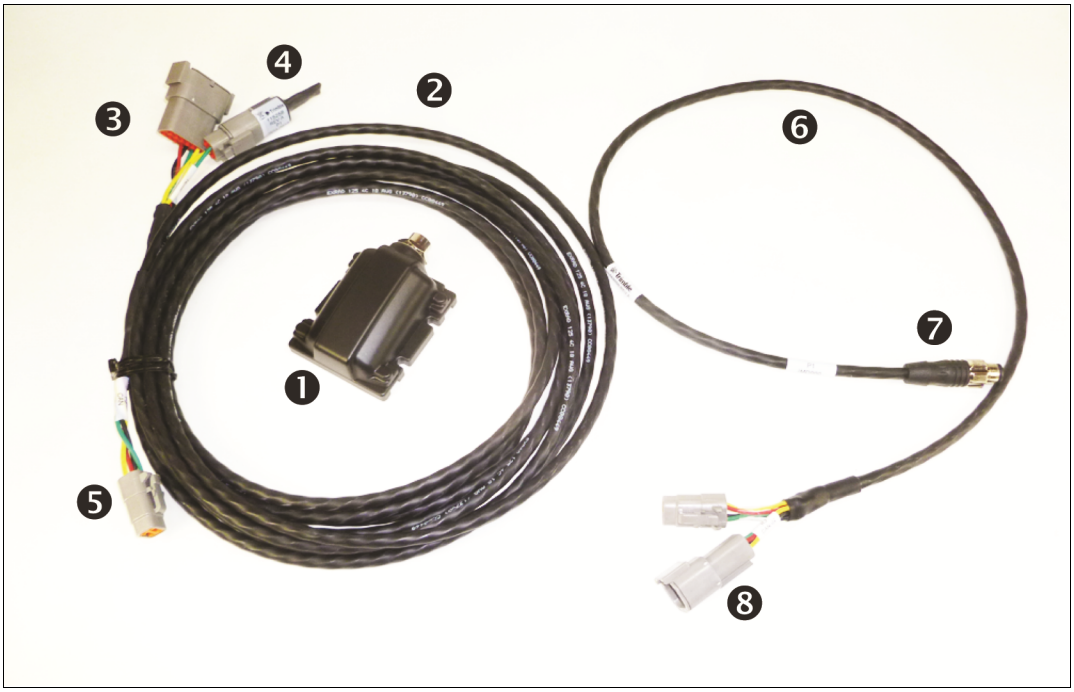
IMD-900 Steering Device Installation

- IMD-900 steering device components
- Installing the IMD-900 steering device
- Connecting the IMD-900 harness

This chapter describes how to install the IMD-900 steering device:

1. **Mounting Location**: If the described mounting location is not accessible, choose an alternative place.
2. **Functionality**: Ensure the IMD-900 device is free of obstructions and can rotate with the wheels when they turn.
3. **Articulated Vehicles**: Mount the device on the side opposite to the pivot point relative to the Autopilot controller.
4. **Orientation**: Mount the device with the base down or base up to maintain a level orientation. Do not mount it on its side. An angle of up to 10° in any direction is acceptable, but a flat orientation is preferred.
5. **Cable Management**: Leave adequate length on the service loop to avoid stretching the cable.

IMD-900 steering device components



Item	Description	P/N
1	IMD-900 steering sensor	109256-00
2	Cable Assy, NAV III to IMD-900	114675
3	R1-CAN connector	
4	CAN terminal (× 2)	
5	P3 CAN connector	
6	Cable Assy, CAN Extension, IMD-900	112759
7	P1-IMD-900	
8	P3/R3 CAN out/CAN in	

NOTE – One or two IMD-900 extension cables (P/N 116575) may be needed to extend the IMD-900 cable to its mounting location.

Installing the IMD-900 steering device

WARNING – To avoid potentially serious personal injury or illness, and to prevent damage to equipment, make sure that you read and understand the Safety Information chapter.

The IMD-900 steering device is shown on the right.

Install it using the following steps.



Step 1

Identify the IMD-900 mounting location at the steering cylinder connection point on the left rear wheel.



Step 2

Locate the IMD-900 mounting plate in the kit P/N 58046 and place the plate in place.



Step 3

Use the two hose clamps provided in the kit P/N 58046 to secure the IMD-900 mounting plate.



Step 4

Secure the IMD-900 to the plate using the four 6-32 x 1/2 socket head screws.



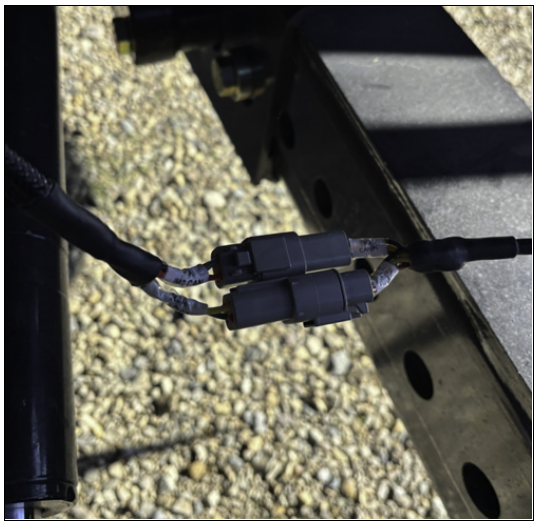
Connecting the IMD-900 harness

Step 1

Connect the P1 connector of the P/N 112759 cable to the IMD-900 ❶.

Connect the R3 and P3 connector to the P3A and the R3A connectors on the extension cable P/N 116575.





Step 2

Connect the CAN terminal to the P3 connector of the P/N 116575 cable.

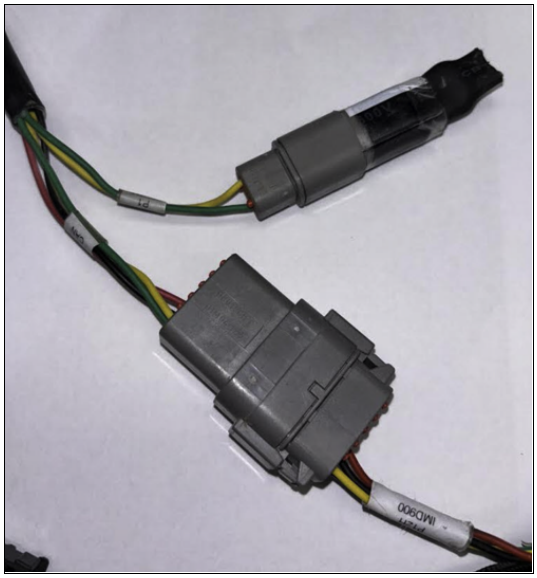
Connect P3 on IMD-900 cable P/N 114675 to R3 on the extension cable P/N 116575.



Step 3

Connect the R1 connector on the IMD-900 cable P/N 114675 to ther P12H, labeled **IMD900**.

> **NOTE** – There should be a terminator next to the P12H connector as well as on the P/N 112759 cable.



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NAV-9x0 Controller Installation

Mount the NAV-9x0 in the grain tank antenna mounting location using the NAV-9x0 adapter plate.

Use the appropriate CNH quick release bracket:

- CNH Quick Release bracket, NAV-960 - P/N 132088
- CNH Quick Release bracket, NAV-900 - P/N 128606



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Power Harness Installation

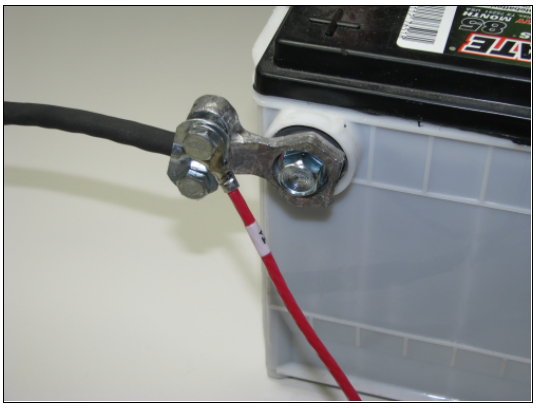
- Installing the power harness
- Configuring the power bus options

Installing the power harness

WARNING – To avoid potentially serious personal injury or illness, and to prevent damage to equipment, make sure that you read and understand the Safety Information chapter.

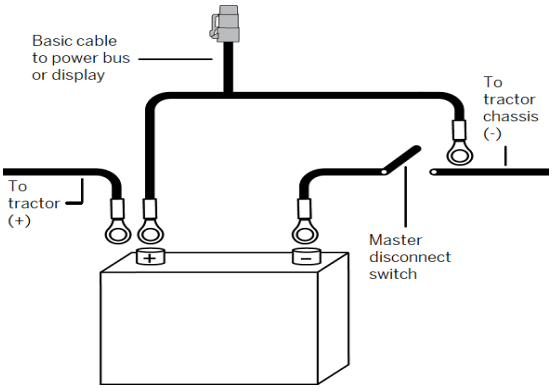
Step 1

Connect the basic power cable to the vehicle battery and then route the cable into the cab.



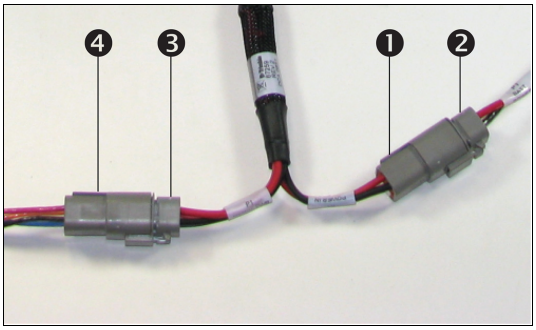
CAUTION – If the vehicle has a master electrical disconnect, make sure the basic power cable (P/N 67258/92905) is ***not*** directly attached to the battery terminal that is disconnected by the master switch - the negative pole in this example.

Attach this terminal side just past the main disconnect so that it is as close as possible to the battery but still gets disconnected when the master disconnect is turned off. Failure to do so can result in damage to the display.



Step 2

Locate and connect the 4-pin DEUTSCH DTP receptacle on the power bus ❶ to the 4-pin DEUTSCH DTP plug ❷ on the basic power cable and then remove the protective cap from the 4-pin DEUTSCH DTP plug ❸ on the power bus and connect the plug to the 4-pin DEUTSCH DTP receptacle ❹ on the display power adapter.



Step 3

Route the display power adapter to the display mounting location and then connect it to the display.



Configuring the power bus options

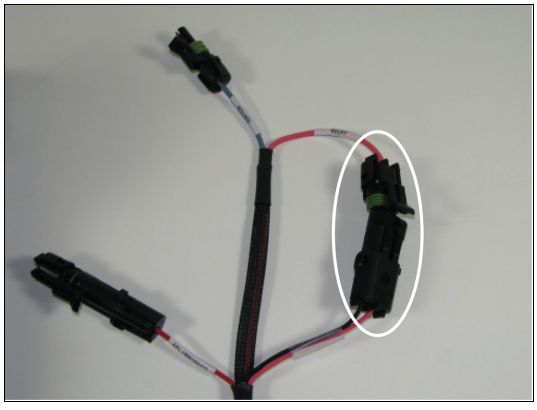
WARNING – To avoid potentially serious personal injury or illness, and to prevent damage to equipment, make sure that you read and understand the Safety Information chapter.

When you use the power bus cable, use one of the following configuration methods to turn on the Autopilot system:

- Display power button is used to turn on the Autopilot system
- External switch is used to turn on the Autopilot system
- Ignition is used to turn on the Autopilot system

Display power button is used to turn on the Autopilot system

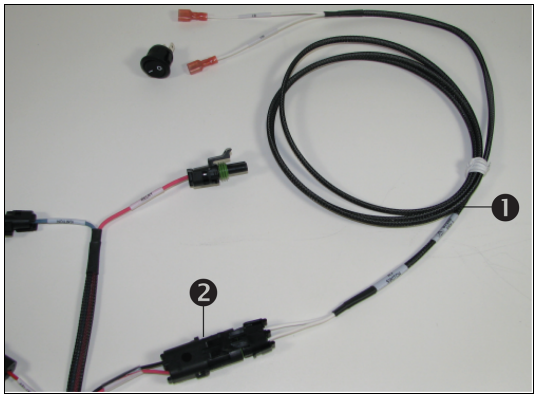
Connect the 2-pin connectors labeled **R2** and **P2** on the power bus.



External switch is used to turn on the Autopilot system

Step 1

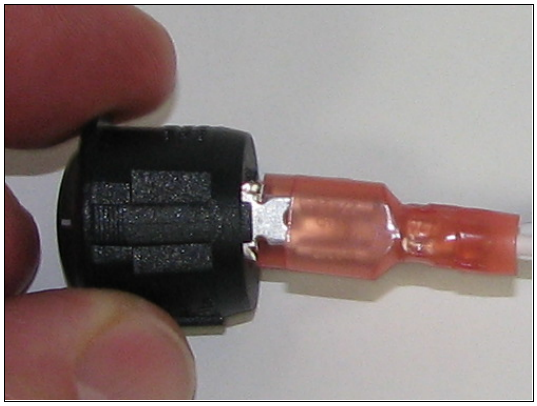
Connect the cable labeled **R7** switch ❶ (included with the power bus) to connector labeled **P2** on the power bus ❷ and then route the cable labeled **R7** to a switch location.



NOTE – To install the switch provided, drill a 3/4" hole.

Step 2

Connect the cable labeled **R7** to the switch pins.

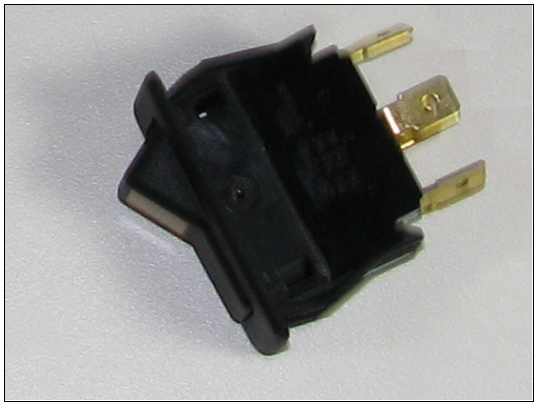


NOTE – Polarity is not important.

Installing the optional illuminated full or standard Euro switch

Step 1

Find an available knockout location on the vehicle console.

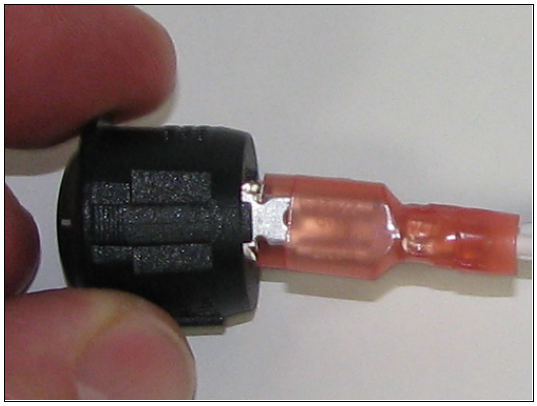


NOTE – An alternative location is required for the switch provided.

Step 2

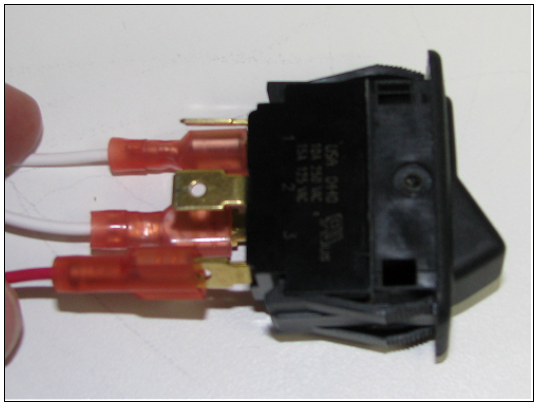
Route the cable labeled **R7** to the switch location and then connect the cable to the illuminated switch.

Connect the wire labeled **S1** to pin 5 on the switch and then connect the wire labeled **S2** to pin 4 on the switch.



NOTE – Polarity is important.

Connect a separate wire to pin 3 on the switch using a spade connector. Route the wire and then connect it to the vehicle switched power.

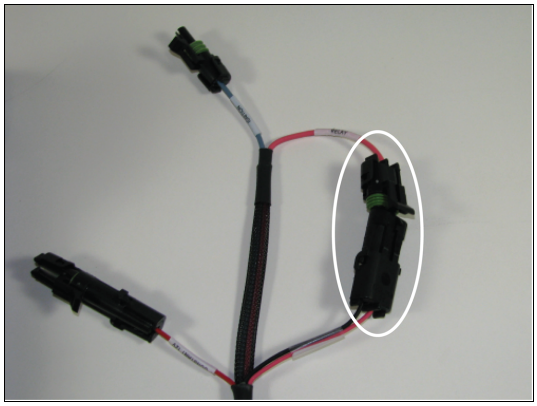


NOTE – This additional wire is required to allow the switch to illuminate.

Ignition is used to turn on the Autopilot system

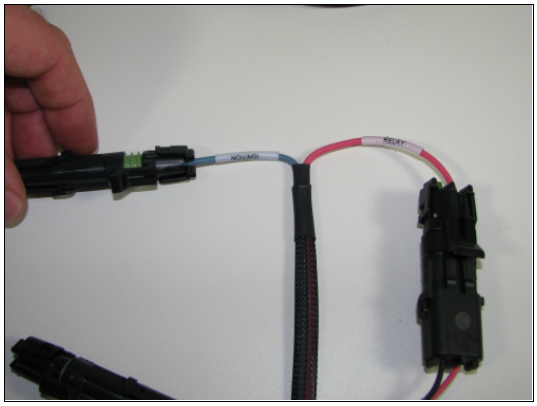
Step 1

Connect the 2-pin connectors labeled **R2** and **P2** on the power bus.



Step 2

Connect the cable labeled **R8 Ignition** (included with the power bus) to connector **P3 Ignition** on the power bus.



Step 3

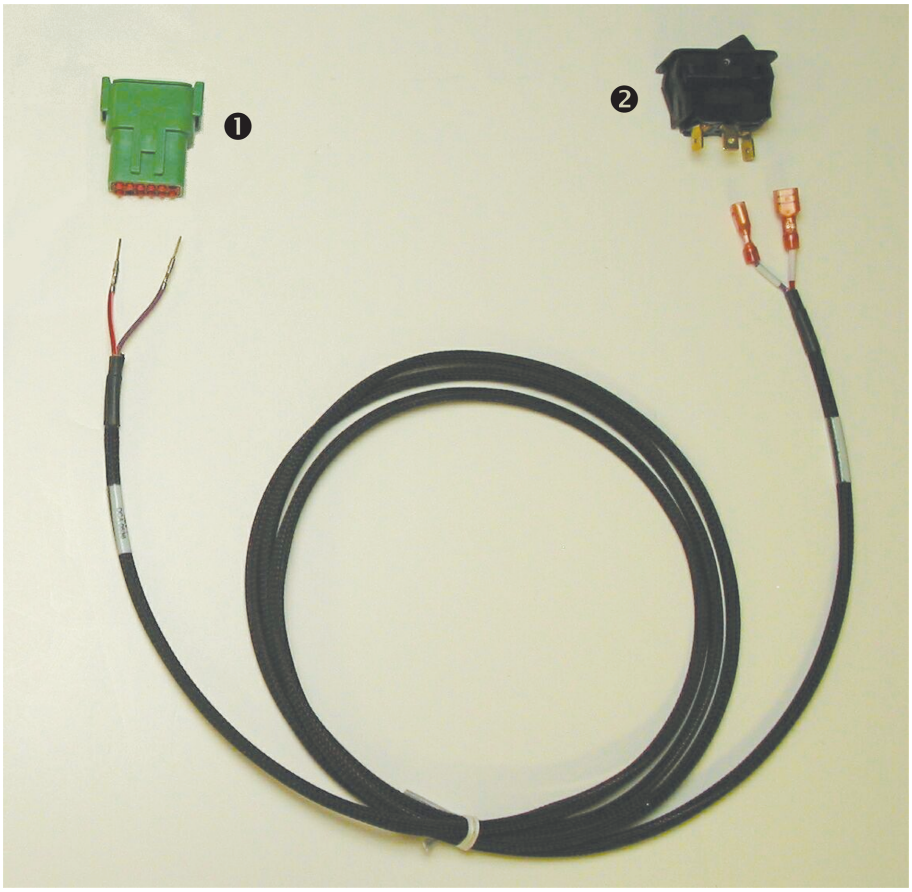
Route the cable to the vehicles ignition.

7

Remote Engage Switch Installation

- Remote engage switch components: Rocker switch
- Remote engage switch components: Foot switch
- Preparing the remote engage cable
- Installing the remote engage push button (P/N 101250)

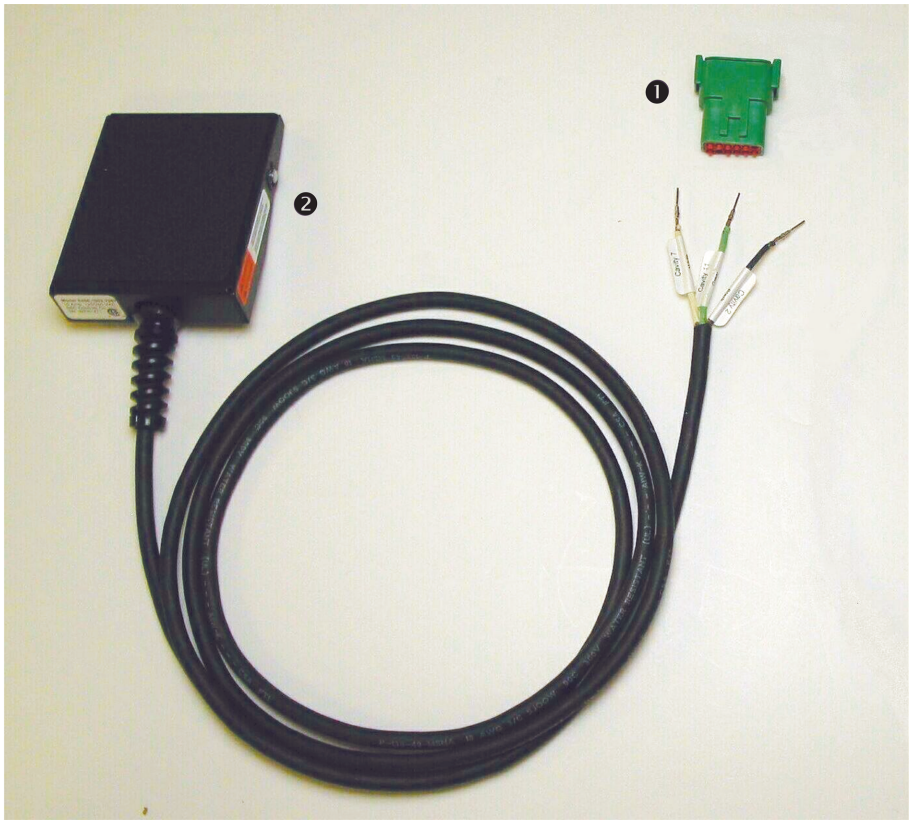
Remote engage switch components: Rocker switch



Item	Description
1	DTM receptacle
2	Remote engage rocker switch

NOTE – This is a Full or Standard Euro switch, depending on the kit ordered.

Remote engage switch components: Foot switch

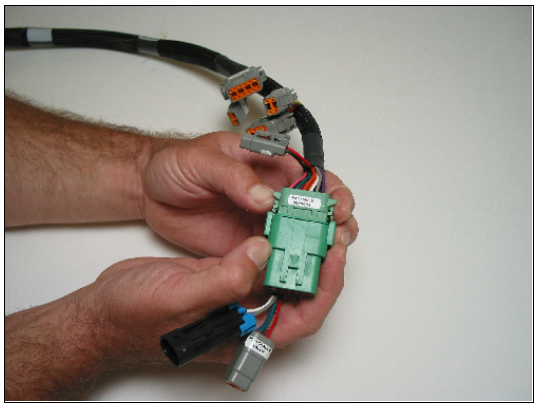


Item	Description
1	DTM receptacle
2	Remote engage foot switch

Preparing the remote engage cable

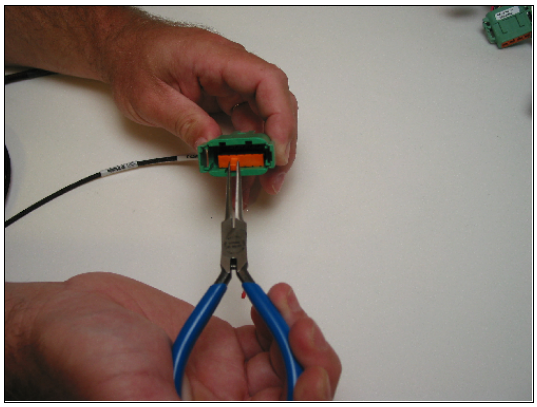
Step 1

Locate the green 12-pin DEUTSCH receptacle on the P5 leg of the main controller harness.



Step 2

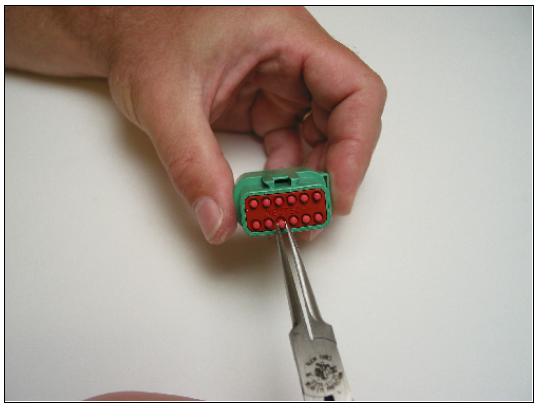
Remove the wedge from the connector.



Step 3

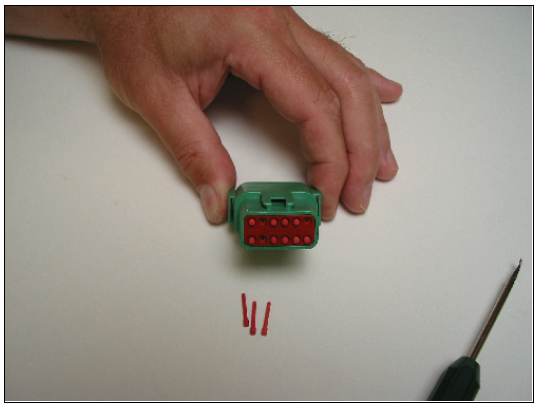
Rocker switch only

Remove the plugs from cavity 2 and cavity 7.



Foot switch only

Remove the plugs from cavity 2, cavity 7, and cavity 11.



Step 4

Rocker switch only

Insert the DTM pins into cavity 2 and cavity 7, according to the labels on the wires.

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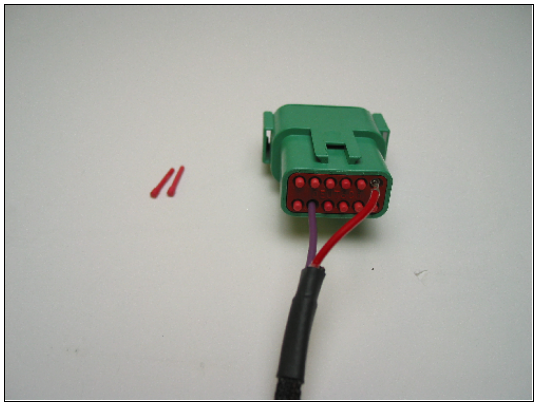
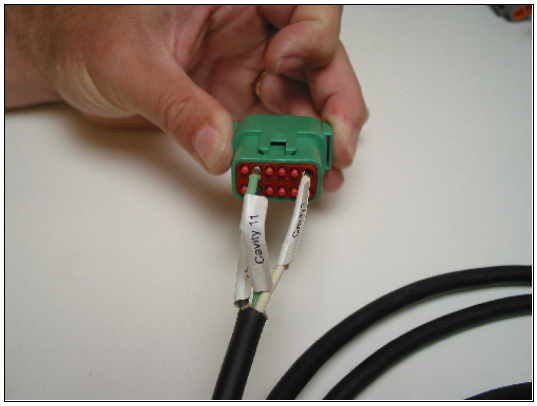


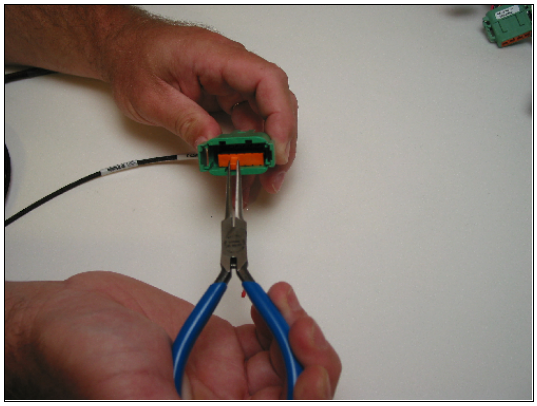
Foot switch only

Insert the DTM pins into cavity 2, cavity 7, and cavity 11, according to the labels on the wires.



Step 5

Pull on the wires to seat them in place and then replace the wedge in the connector.



Step 6

Replace the receptacle on the P5 plug of the NAV-9xx controller harness.

Step 7

Rocker switch only

Run the spade ends of the cable to a knockout location in the operator console.



Foot switch only

Run the cable to a clear location on the floor board. Use double-sided tape to secure the pedal.

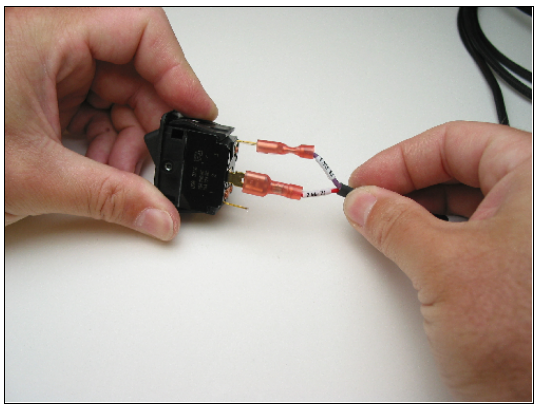
Route the cable under the floor mat.



Step 8

Rocker switch only

Connect the wires to the switch. Match the print on the switch body with the labels on the wires.



Step 9

Rocker switch only

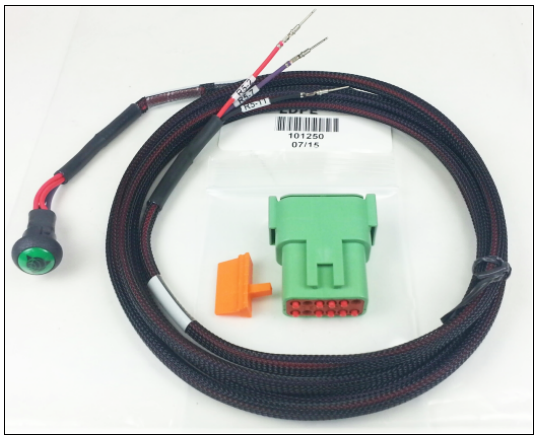
Place the switch in the console.



Installing the remote engage push button (P/N 101250)

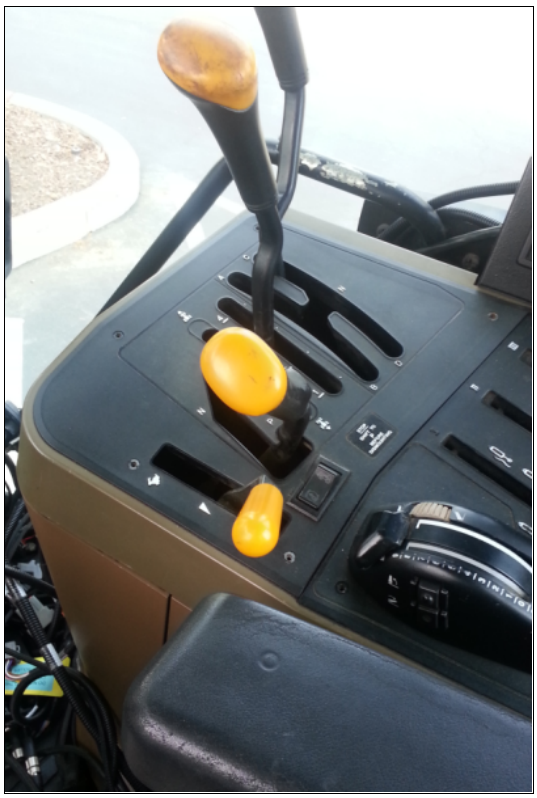
Step 1

Locate the push button cable assembly (P/N 101250) and verify that the 12-pin green DEUTSCH connector, wedgelock, and seal are included in the small Ziploc bag.



Step 2

Locate a convenient location on the machine to install the switch. It should be easily accessible while driving but should not interfere with any other machine controls.



Step 3

Remove the panel from the desired installation location to verify that there is adequate clearance for the switch and cable. Take care that the cable will not interfere with any gear levers.



Step 4

Drill a 1/2" hole for the switch.



Step 5

Thread the cable through the clear round seal, and slide it up until it reaches the switch.



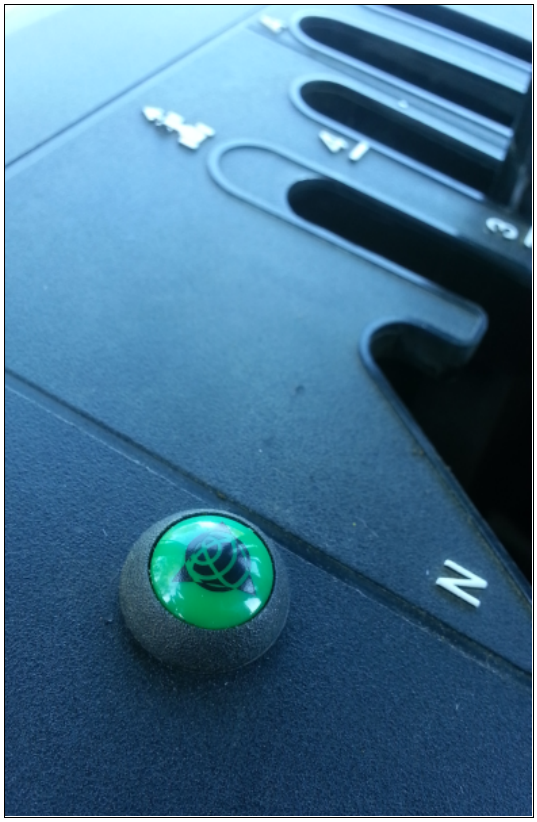
Step 6

Thread the cable through the hole in the instrument panel.



Step 7

Push the button down until it seats. The locking tabs will hold it securely in place.



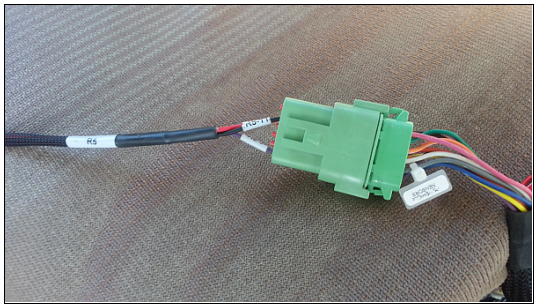
Step 8

Route the cable as desired, and insert the contacts into the 12-pin connector as labeled.



Step 9

Plug the 12-pin receptacle into the mating green plug (P5) on the NAV-9x0 harness (P/N 110550). Verify that the button works properly before proceeding. In dim lighting, the button has an LED backlight which will be visible whenever the system is powered on.



Step 10

Reinstall the panel and secure loose cables with wire ties.



8

VDM-912 Controller Installation

- Installing the VDM-912 controller
- Connecting the VDM-912 controller
- VDM-912 power harness connection

Installing the VDM-912 controller

NOTE – The VDM-912 controller has no specific mounting requirements; it can be mounted in any orientation or even left unmounted.

WARNING – To avoid potentially serious personal injury or illness, and to prevent damage to equipment, make sure that you read and understand the Safety Information chapter.

Step 1

One possible mounting location for the VDM-912 is inside the right side of the cab.

Loosen the three thumb screws and remove the cover.

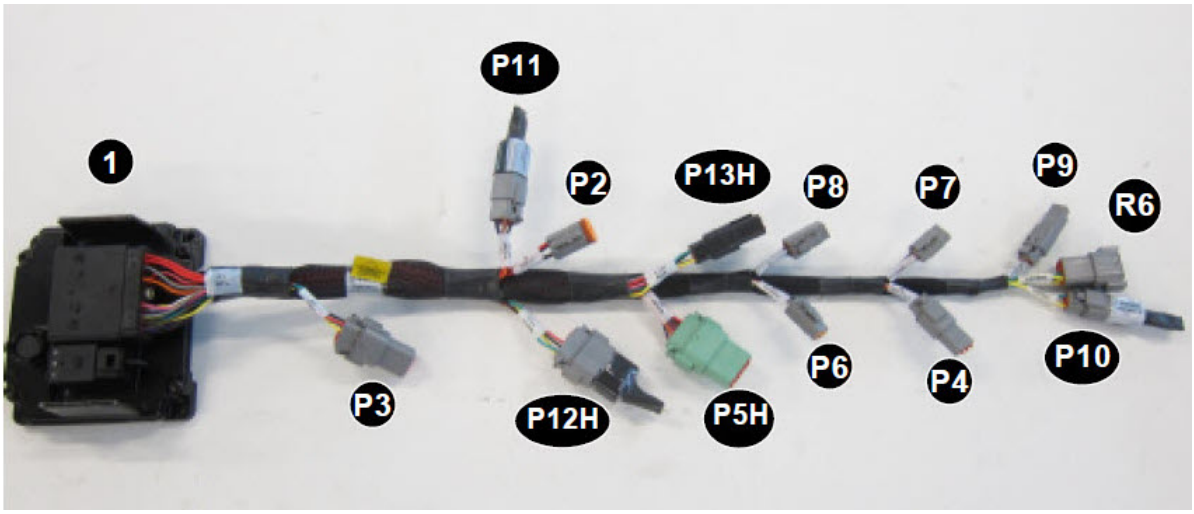


Step 2

Locate an area along the right side of the cab and set the VDM-912 in place.



Connecting the VDM-912 controller



Item	Description	Item	Description
1	VDM-912 controller	**R6**	NAV-900 connector
P11	Roading/R.E. switch/System Enable	**P3**	GPS2 connector
P2	Power In connector	**P12H**	IMD-900 sensor connector
P13H	Auxiliary connector	**P5H**	Inputs
P8	Hydraulic valve connector	**P6**	POT / ROWG
P7	Manual override connector	**P4**	Override 2 / aux input
P9	Isolation valve connector	**P10**	Auxiliary harness

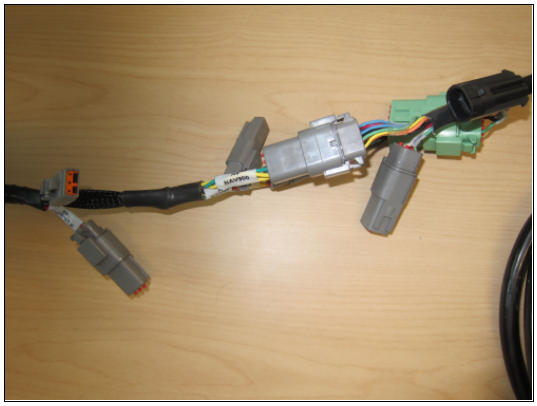
Step 1

The P/N 110550 cable will connect the NAV-900 guidance controller and the VDM-912 controller harness.



Step 2

Connect the 8-pin DTM connector on the P/N 110550 harness to the 8-pin R6 receptacle on the VDM-912 controller harness. R6 is labeled **NAV900**.



Step 3

Connect the Sonalert P9 to the 2-pin Delphi connector on the P/N 110550 wiring harness. Route the cable so the Sonalert warning device is in a position that is audible to the operator.



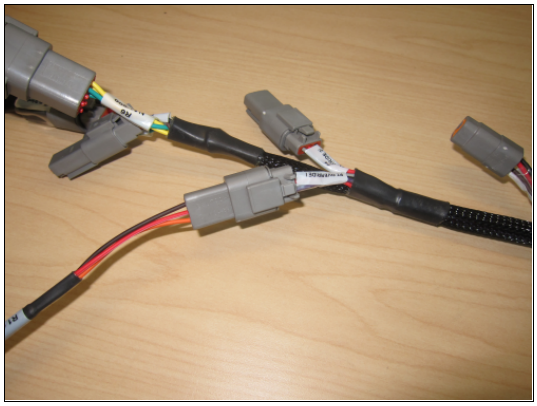
Step 4

Connect the steering sensor cable connection to the P6 connector on the main VDM-912 controller harness.



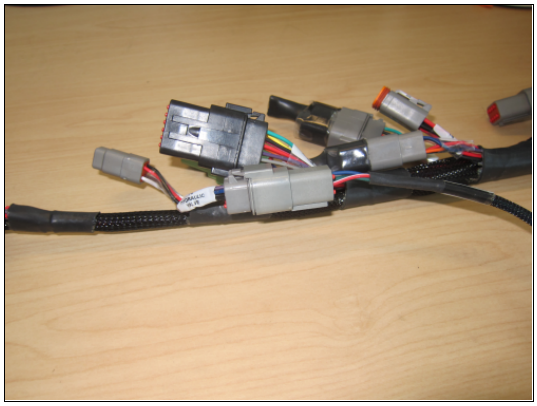
Step 5

Connect the manual override cable connection to P7, which is labeled **Manual Override**.



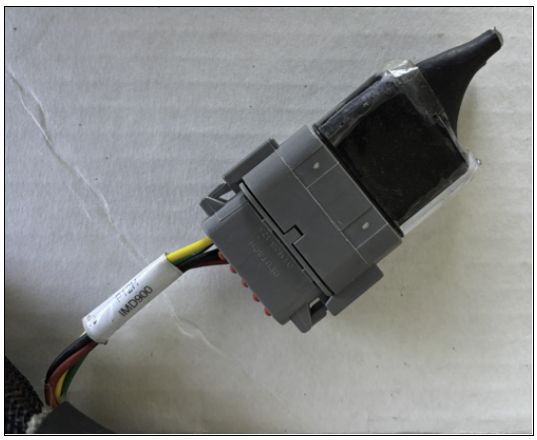
Step 6

Connect the hydraulic steering valve cable connection to P8, which is labeled **Hydraulic Valve**.



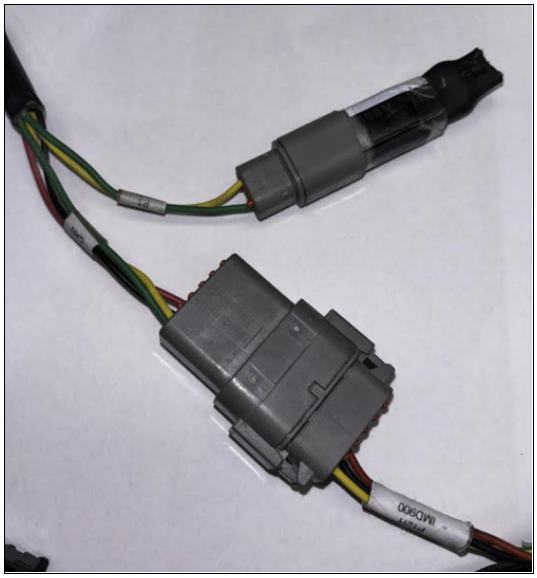
Step 7

Remove the CAN terminator P/N 116983 from connector P12H, which is labeled **IMD900**.



Step 8

Connect the R1 connector on the IMD-900 cable P/N 114675 to ther P12H, labeled **IMD900**.



VDM-912 power harness connection

Step 1

The VDM-912 harness is connected to the P/N 67259 power bus with the P/N 116985 harness shown here.



Step 2

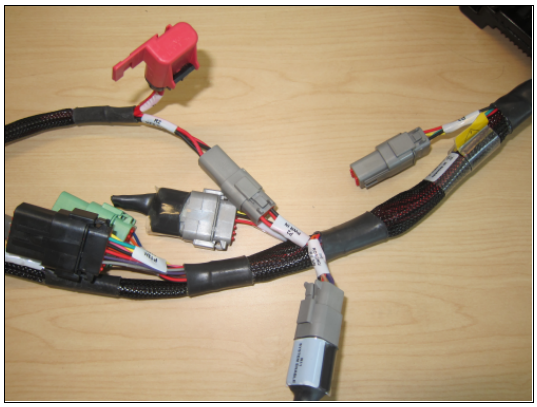
Connect the two power bus connectors R1 and R3 to the power bus as shown. Both connectors must be connected.

> **WARNING** – Failure to connect both connectors could result in failure of the power harness or electrical short.



Step 3

Connect the R2 VDM-912 power connector to the P2 connector on the main VDM-912 harness. The connector is labeled **PWR IN**.



8

Final Machine Check

WARNING – To avoid potentially serious personal injury or illness, and to prevent damage to equipment, make sure that you read and understand the Safety Information chapter.

To perform the final machine check:

1. Connect the battery.
2. Update the Trimble display and the NAV-9xx controller to the latest firmware from Ag Resource Center.
3. Load the correct configuration file into the Autopilot NAV-9xx controller for the vehicle model being used. Download the latest set of configuration files from Ag Resource Center.
4. Calibrate the Autopilot system using the Trimble display. Depending on your machine type, the following items must be calibrated before you can use the Autopilot system:
   - NAV-9xx mounting orientation
   - Antenna height/Antenna axle offset, and Roll offset
   - Steering gain
   - Steering deadzone


PTx
Trimble