Autopilot

AGRICULTURE

February 2019

TRIMBLE RESELLER CONFIDENTIAL

Autopilot

Note: This feature is optional and requires a license. See App Central: Installing Licenses from a USB Drive.

The Trimble® Autopilot™ steering system combines the accuracy of the NAV-900 guidance controller with the highest level of autosteer performance.

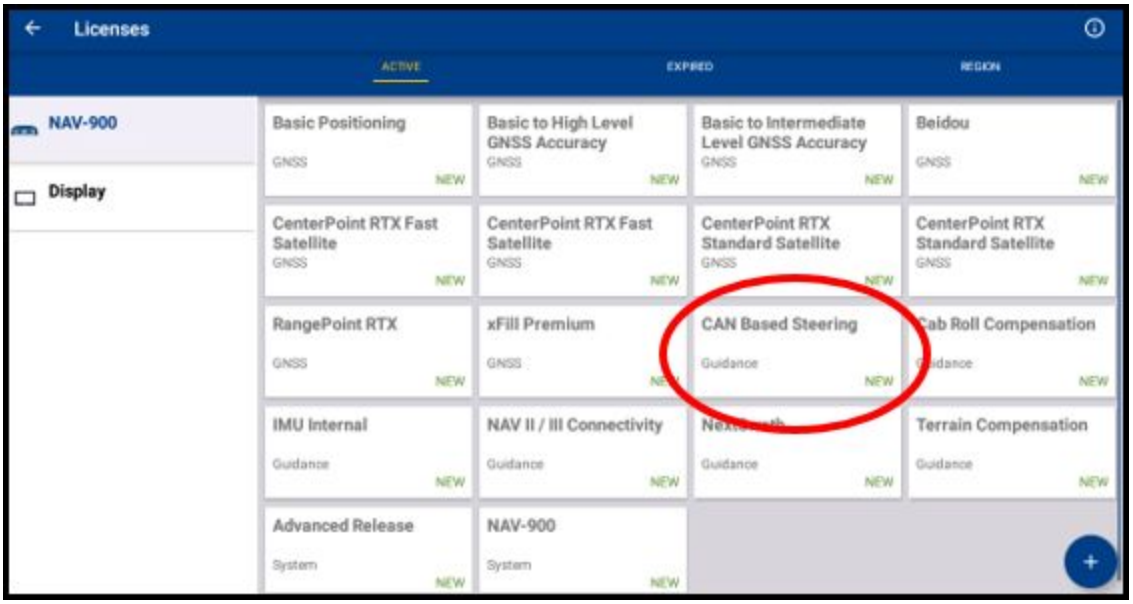
Contents

Benefits

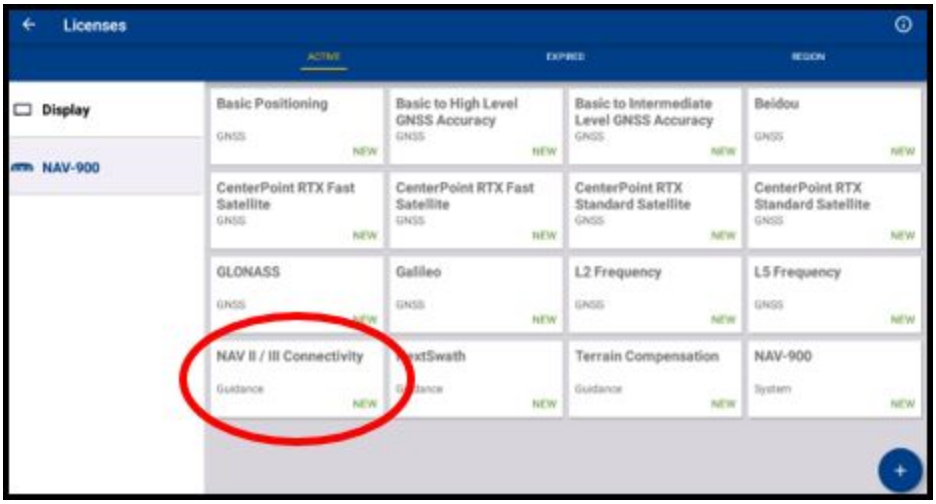
- Sub-inch accuracy inertials from the NAV-900 guidance controller.
- Slow and high speed.
- Reverse operation.
- Compatible with factory-equipped, auto guidance ready machines: Challenger, Claas, CaseIH, John Deere, JCB, Kubota, Massey Ferguson, New Holland, and Valtra.

Dependencies

Autopilot (CAN bus factory-ready machines) using a NAV-900 guidance controller, requires a **CAN BASED STEERING** license installed into the NAV-900 guidance controller and is managed through the display. The license is available in App Central:



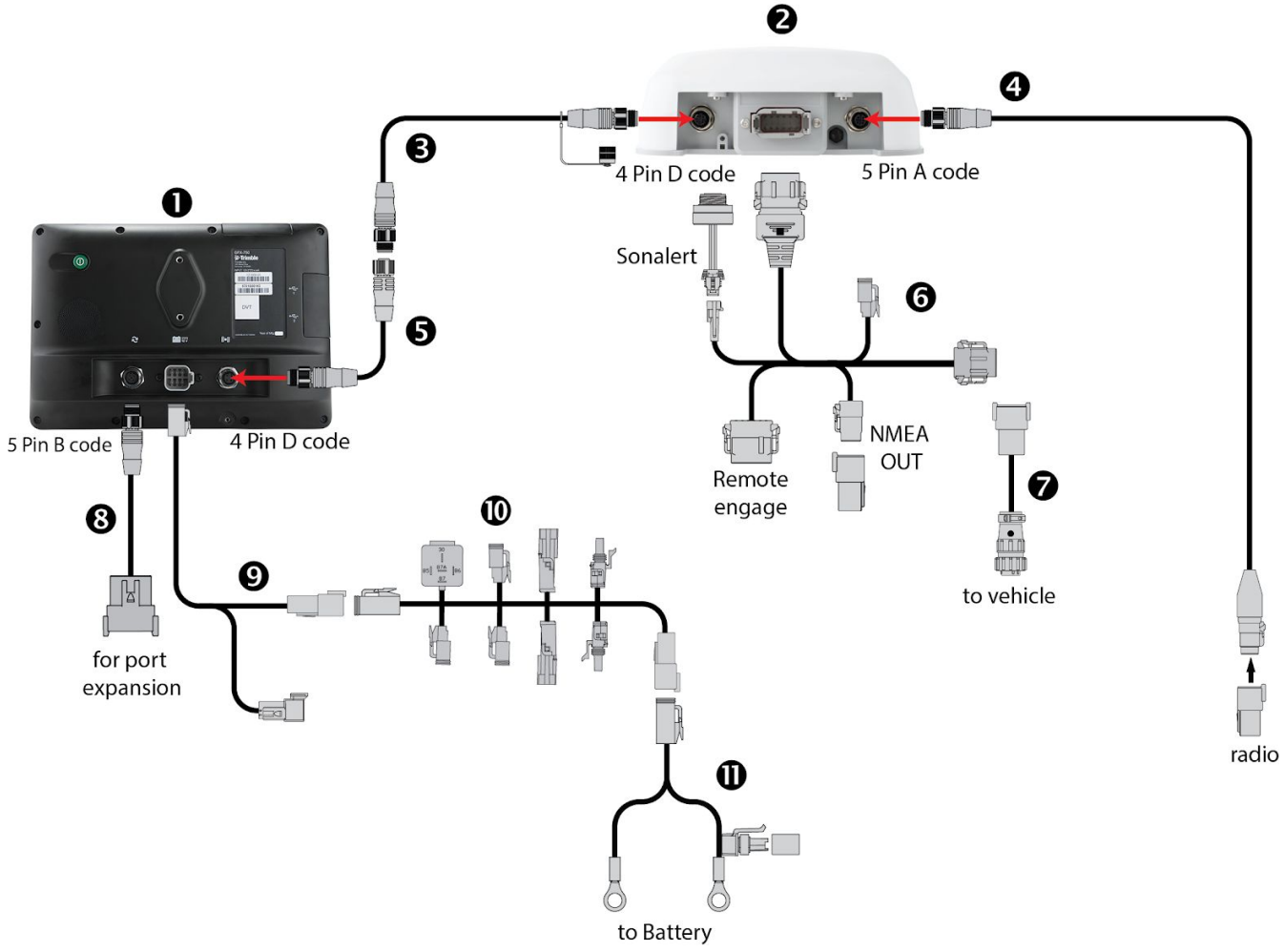
Autopilot (hydraulic) requires a **NAV II/III CONNECTIVITY** license installed into the NAV-900 guidance controller and is managed through the display. The license is available in App Central:



Note: The NAV II/III Connectivity license is installed from the factory and does not require purchase.

System Layout

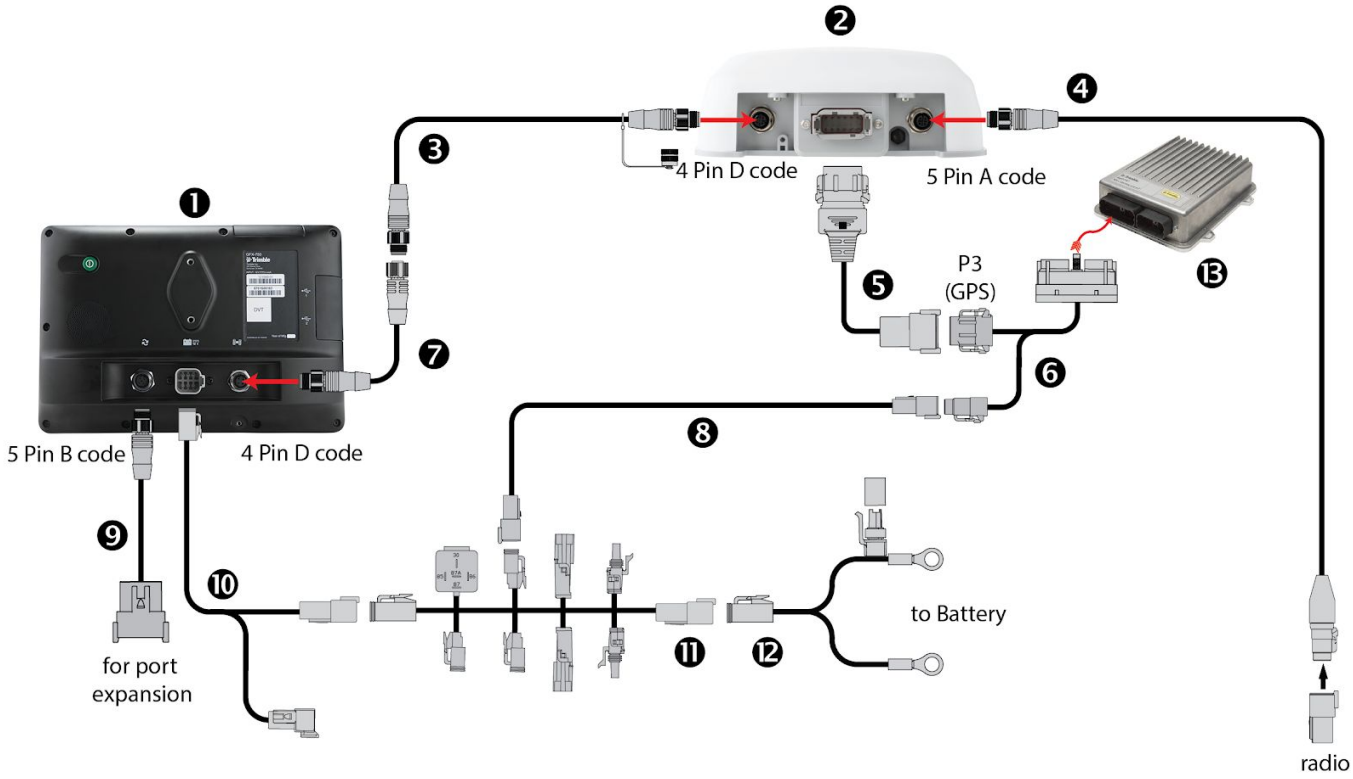
Autopilot CAN Steer (in-cab connection)



Item	Description	Part Number
1	GFX-750/XCN-1050 display, with Precision-IQ App	
2	NAV-900 guidance controller	
3	Cable Assy, GFX-750/XCN-1050 to NAV-900, Power/Ethernet (BRR), 5 m	110540
4	Cable Assy, NAV-900 to in-cab RTK Radio, DTM06, 4.5 m	110544
5	Cable Assy, GFX-750/XCN-1050 to NAV-900, Power/Ethernet (BRR) Extension, 2.5 m. Optional extension for large vehicles	112082

6	Cable Assy, NAV-900, CAN ISO to cab Guidance, 4 m	110550
7	Cable Assy, NAV-900, CAN ISO in-cab, Guidance Cable Assy, NAV-900, CAN ISO in-cab ext, Guidance, 2 m	112611
8	Cable Assy, GFX-750/XCN-1050, Expansion Port Basic, RS232, Dig I/O, 2.5 m	110545
9	Cable Assy, GFX-750/XCN-1050, Power to display, CAN, 2.5 m	110551
10	Cable Assy, GFX-750/CFX-750/FM-750/XCN-1050/FmX/FM1000 Power with Relay and Switch (Acc) (optional)	67259
11	Cable Assy, GFX-750/CFX-750/FM-750/XCN-1050/FmX/FM1000 Basic Power, 4 m	67258

Autopilot (using NavController II/III)



Item	Description	Part Number
1	GFX-750/XCN-1050 display, with PIQ App	
2	NAV-900 guidance controller	

3	Cable Assy, GFX-750/XCN-1050 to NAV-900, Power/Ethernet (BRR), 5 m	110540
4	Cable Assy, NAV-900 to in-cab RTK Radio, DTM06, 4.5 m	110544
5	Cable Assy, NAV-900 to Nav II/III, Autopilot	110547
6	Cable, NavController II/III, Main	54601
7	Cable Assy, GFX-750/XCN-1050 to NAV-900, Power/Ethernet (BRR) Extension, 2.5 m. Optional extension for large vehicles	112082
8	Cable Assy, 2 PIN DTM to 2 PIN DT Power Adapter	67095
9	Cable Assy, GFX-750/XCN-1050, Expansion Port Basic, RS232, Dig I/O, 2.5 m	110545
10	Cable Assy, GFX-750/XCN-1050, Power to display, CAN, 2.5 m	110551
11	Cable Assy, GFX-750/CFX-750/FM-750/XCN-1050/FmX/FM1000 Power with Relay and Switch (Acc)	67259
12	Cable Assy, GFX-750/CFX-750/FM-750/XCN-1050/FmX/FM1000 Basic Power, 4 m	67258
13	NavController II/III	

Autopilot (Hydraulic) Setup

1. Set up auto guidance as described in Auto Guidance Setup. Return to this step when completed.
2. Set up navigation controller as described in the *Controller Setup* section of Auto Guidance Setup. Return to this step when completed.
3. Set up the steering sensor as described in the *Steering Sensor* section of Auto Guidance Setup. Return to this step when completed.
4. Enter machine dimensions as described in the *Vehicle Measurement Settings* section of Auto Guidance Setup. Return to this step when completed.
5. Calibrate Autopilot as described in Auto Guidance Calibration. Follow steps for each routine listed:
    - Manual Override
    - Auto Cal
    - DeadZone (not required if you ran Auto Cal)
    - Steering Sensor
    - Proportional Gain
    - Roll Correction
    - Line Acquisition

For More Information

Contact your local Trimble Regional Sales Manager.