



FIELDPILOT 220

Assisted Steering System

FieldPilot 220 is an innovative GPS guidance device that provides effective results in an easy-to-use package at an unbeatable price.

The FieldPilot 220 system is an extension of the familiar CenterLine 220 console, which is easy to use and familiar. Guidance information is provided on a bright, clear graphical display and also on a built-in lightbar. The system will provide manual or automated guidance in parallel (straight) and curved AB patterns.

The simplicity and value that make CenterLine 220 manual guidance so appealing are now available in an assisted steering package that's ready to make a difference in your operation.

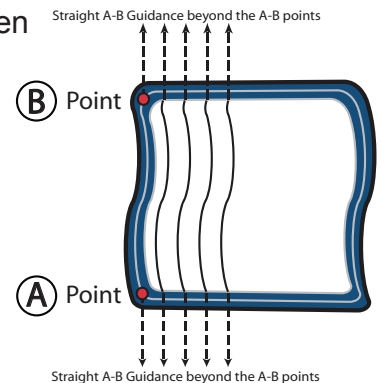


FieldPilot 220 connects to the hydraulic power steering system to provide reliable and convenient control. This method of connection keeps the cab free of brackets and motors that may interfere with normal steering.

FieldPilot 220 Features

- Low cost assisted steering
- Simple installation and operation
- Sub-meter WAAS/EGNOS GPS receiver built-in
- Hydraulic steering interface for optimum performance
- Small console size keeps cab free of clutter
- Parallel (straight) and curved A-B guidance
- Tilt compensation and Gyro-stabilization included standard
- Remote engage/disengage switch
- Custom installation kits available to fit most common vehicles

During operation, the first pass in a field is driven manually. Subsequent passes are conducted by lining up the vehicle near the desired swath and engaging assisted steering. The vehicle will automatically maintain its precise location on the desired track. At the row end, the operator can easily disengage the steering system and make the headland turn manually. The system will automatically disengage when it is more than $\frac{1}{3}$ of the swath width off-track.



FieldPilot 220

System Components

Steering Valve

A specialized electro-hydraulic valve directs steering oil to the appropriate location. This valve is designed to steer smoothly and accurately on most any vehicle. Machine-specific kits include mounting brackets designed to securely and conveniently mount the valve to the equipment and hoses designed to connect the valve to the hydraulics.



CenterLine 220

The CenterLine 220 is as easy to use for assisted steering as it is for manual guidance. An internal GPS receiver provides accurate positioning. A small patch antenna is mounted outside the cab. When connected to a steering control module (SCM), the CenterLine 220 acts as a simple and convenient assisted steering console. When not connected to an SCM, the CenterLine 220 functions as a standard lightbar, providing multiple uses with the same console.



Steering Control Module (SCM)

The Steering Control Module (SCM) controls the steering functions and the hydraulic steering valve. The smart device contains a solid-state gyro (with no moving parts) and a tilt sensor to ensure smooth and stable steering even on rough terrain. The SCM is rugged and durable, and simply needs to be mounted

flat, with its weather-tight connector pointed up. Status lights on the SCM make it easy to confirm proper operation.



Harness

TeeJet harnesses are designed for reliable operation in harsh environments. Shielding and weatherproof connections ensure that the cables and electrical connections are reliable and trouble free.



FieldPilot 220 Display

FieldPilot 220 is extremely easy to set up and operate. Intuitive graphical screens guide the operator through the settings to configure the system and fine-tune performance.

Steering Mode



Sets the system for automated steering or manual guidance

Look Ahead



Adjusts steering responses to ground-speed changes

Aggressiveness



Determines how aggressively the system tracks the line

Dead Band



Specifies the minimum error to correct

Steering Valve Test



Allows manual control of the steering valve for testing

Vehicle Type



Sets vehicle type to front-steer, articulated or tracked

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