

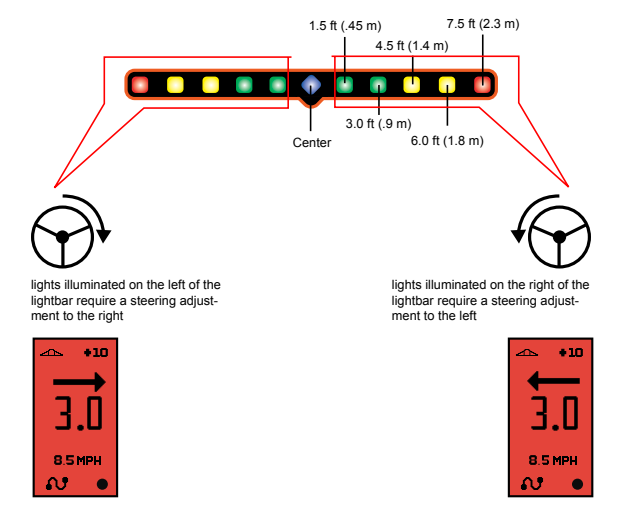
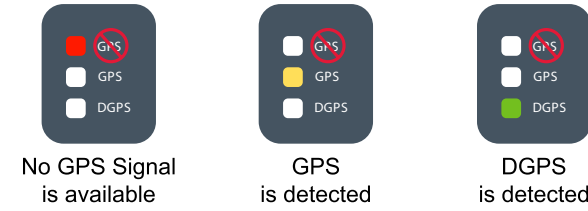
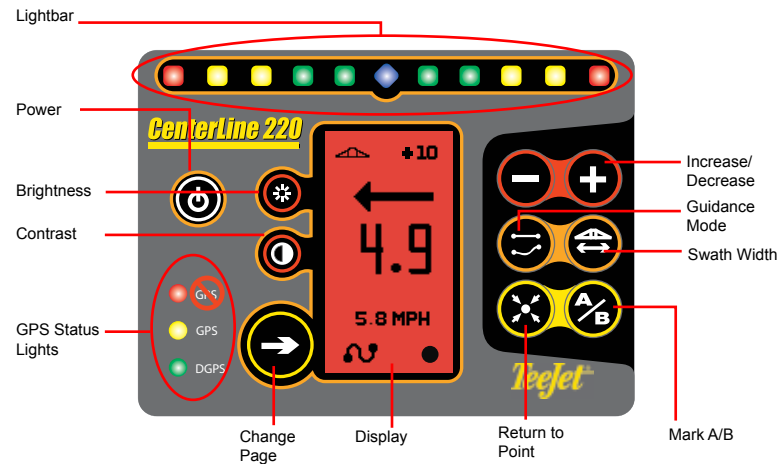
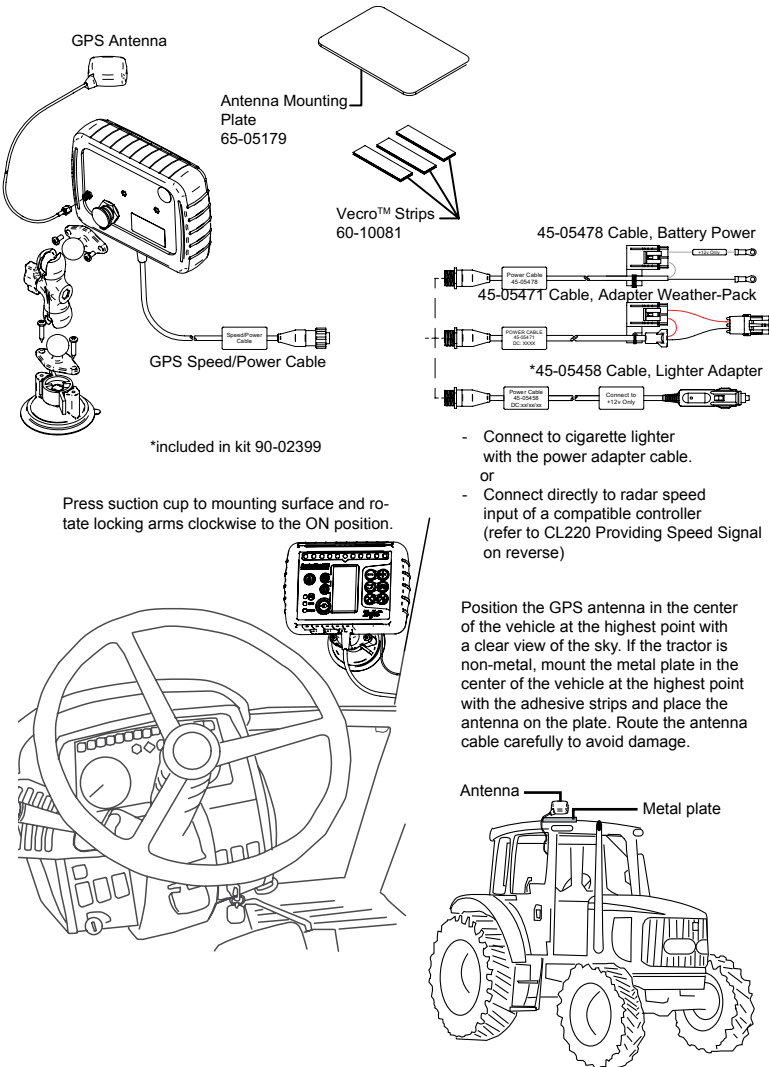
CenterLine® 220

INSTALLATION

The CenterLine® 220 is equipped with three cables: the attached Power/GPS Speed cable, the Antenna cable, and the Power Adapter cable.

POWER/GPS SPEED CABLE - The CL220 should be connected to a clean cigarette lighter receptacle for power. As an option, the CL220 can be connected to any controller or monitor that supports a radar speed input. When connected to the radar speed input of the monitor or controller, the CL220 will be powered by the controller and will provide a radar-like speed signal to that device.

GPS ANTENNA AND CABLE - The antenna is magnetic, so for metal vehicles, position the antenna in the center of the vehicle at the highest point. For non-metal vehicles, a metal plate with adhesive strips has been included in the kit for easy mounting and installation. It is **STRONGLY** recommended to use this metal plate underneath the antenna as it will also boost signal strength. Once the antenna has been positioned, route the antenna cable carefully to avoid damage. Attach it to the threaded connector on the back of the CL220.



CENTERLINE 220 SETUP AND OPERATIONS

Press the Power button to power up the CL220. The CL220 start-up screen will appear until a GPS signal is acquired. Press the Power button again to power down the console.

BRIGHTNESS/CONTRAST

Press the Brightness or Contrast buttons. Use the Increase and Decrease buttons to make adjustments. To invert the colors on the display, press and hold the Contrast button for 3 seconds.

SWATH WIDTH

Press the Swath Width button. Use the Increase and Decrease buttons to make adjustments to the swath width.

The swath width value is displayed in feet. The swath width measurement displayed will be used until changed.

SETTING THE INITIAL GUIDELINE

At the desired location for guidance to begin, press the Mark A-B button. Point A will be marked. The display will then change to Mark B. Travel to the location for Point B to be marked. Press the Mark A-B button to mark Point B.

The CL220 will begin providing guidance with the lightbar and data display.

SETTING INITIAL GUIDELINE (CONTINUED)

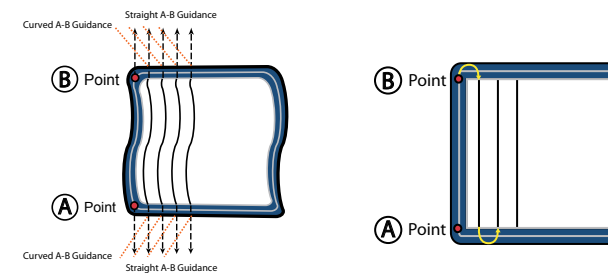
If the Mark A button was pressed inadvertently and a Point A was created, it can be released by pressing the Mark A-B button followed by the Decrease button.

GUIDANCE MODE

Press the Guidance Mode button to select Straight or Curved A-B Guidance. View the bottom left of the display window to see the Guidance mode selected.

STRAIGHT A-B MODE provides straight line guidance between two reference points (Points A and B).

CURVED A/B MODE provides curved guidance between two reference points (Points A and B). All swaths are identical to the path driven on the first pass between Points A and B.



A+ NUDGE FEATURE

At any time after a guideline is created, the guidance line can be shifted to the current vehicle position by pressing the Mark A-B button followed by the Increase button. The heading (and shape, if in Curved Guidance mode) of the original guideline is maintained, but the A-B line is shifted to the vehicle's present location.

CHANGE PAGE

Use the Change Page button to alternate between the Data Page and the Map Page.

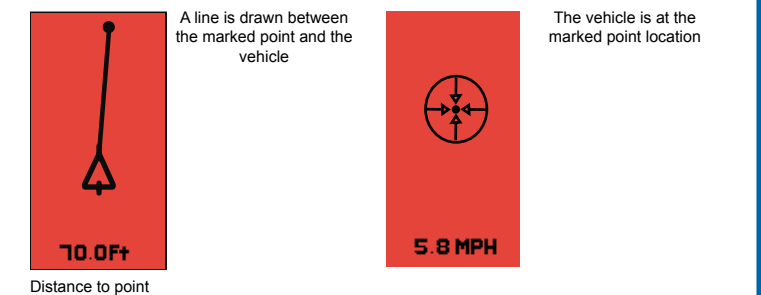
Data Page
4.9
5.8 MPH

Map Page
The dashed lines represent adjacent swaths

RETURN TO POINT

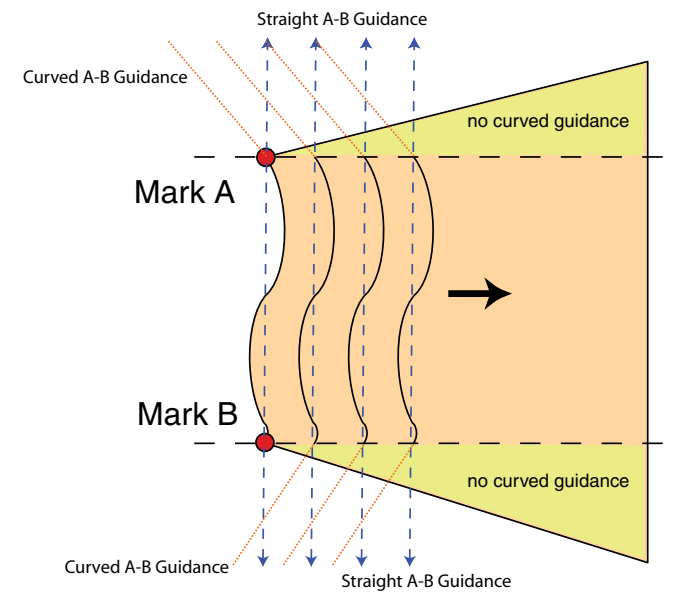
Press the Return To Point button to store a location in which to return at a later time. A dot will appear on the bottom of the display, indicating that a position has been stored.

To locate the point, press the Return To Point button again and begin navigating toward the point as indicated on the display. To exit Return To Point, press the Return To Point button again. Use the Change Page button to switch between the Return To Point display screens.



CURVED A-B MODE DETAILED DESCRIPTION

Curved A-B mode provides curved guidance between two reference points - Points A and B. All swaths are identical to the path driven on the first pass between the initial Points A and B. Guidance beyond Points A and B will result in Straight Line Guidance. To optimize curved guidance performance, begin product application on the longest side of the field and work toward the shorter side. The following example illustrates the areas that will NOT be covered by curved guidance when starting on the short side.



TECHNICAL SPECIFICATIONS

Electrical:

- Operating temperature -4°F to +158°F/-20°C to +70°C
- Operating voltage +9VDC to +16VDC
- Operating current < 500mA

Dimensions:

- Enclosure W: 7.125" H: 5.125" D: 1.875"
W: 180.9 mm H: 130.1mm D: 47.6mm
- Display W: 1.42" H: 2.70"
W: 36.0 mm H: 68.5 mm

CENTERLINE 220 PROVIDING SPEED SIGNAL

The CL220 can be connected to any controller or monitor that supports radar speed input. When connected to the radar speed input of the monitor or controller, the CL220 may be powered by the controller and will provide a radar-like speed signal to that device.



Speed adapter cable required: P/N 45-20042
Radar Speed Calibration # for TeeJet Controls: 914



No adapter required.
Radar Speed Calibration # for Mid-Tech Controls: 1000



Speed adapter cable required: P/N 45-20042
Radar Speed Calibration # for 70 Series monitors: 9140



Speed adapter cable required: P/N 45-05508
Radar Speed Calibration # for Raven Controls: 730



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