

# Antenna Roll Compensation Calibration

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## When do you need it

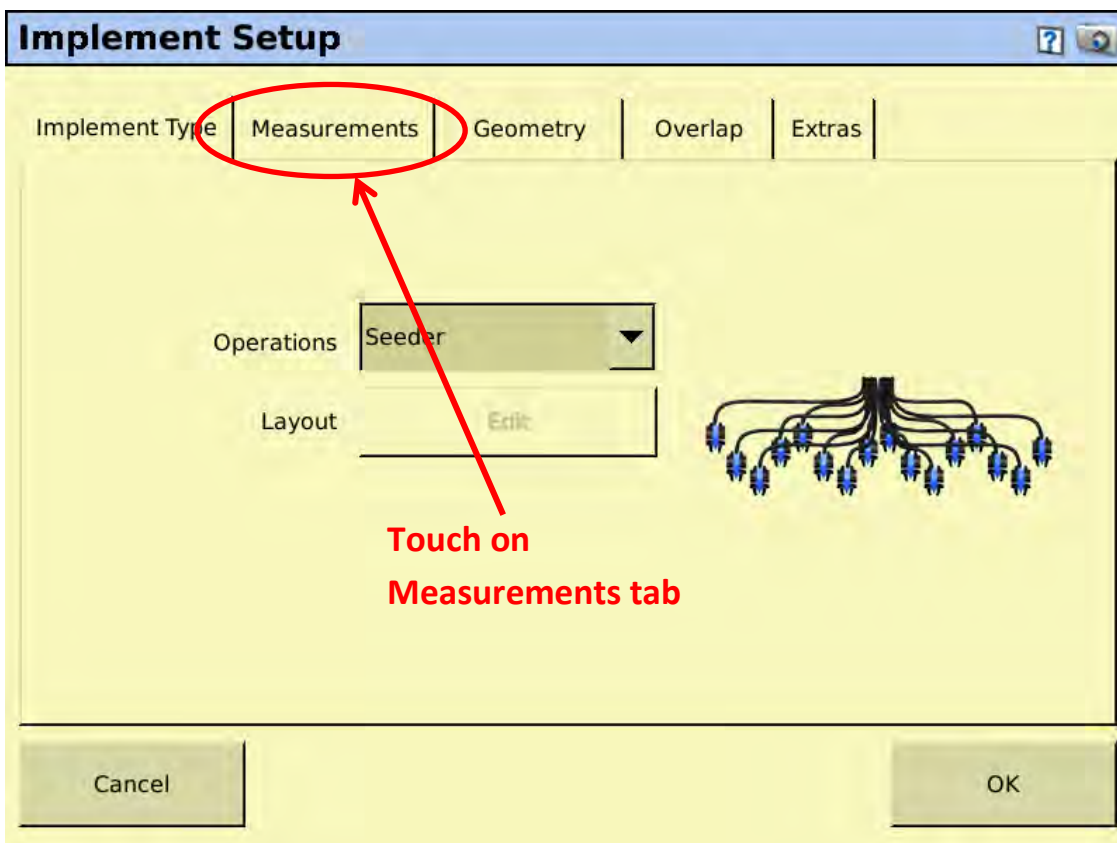
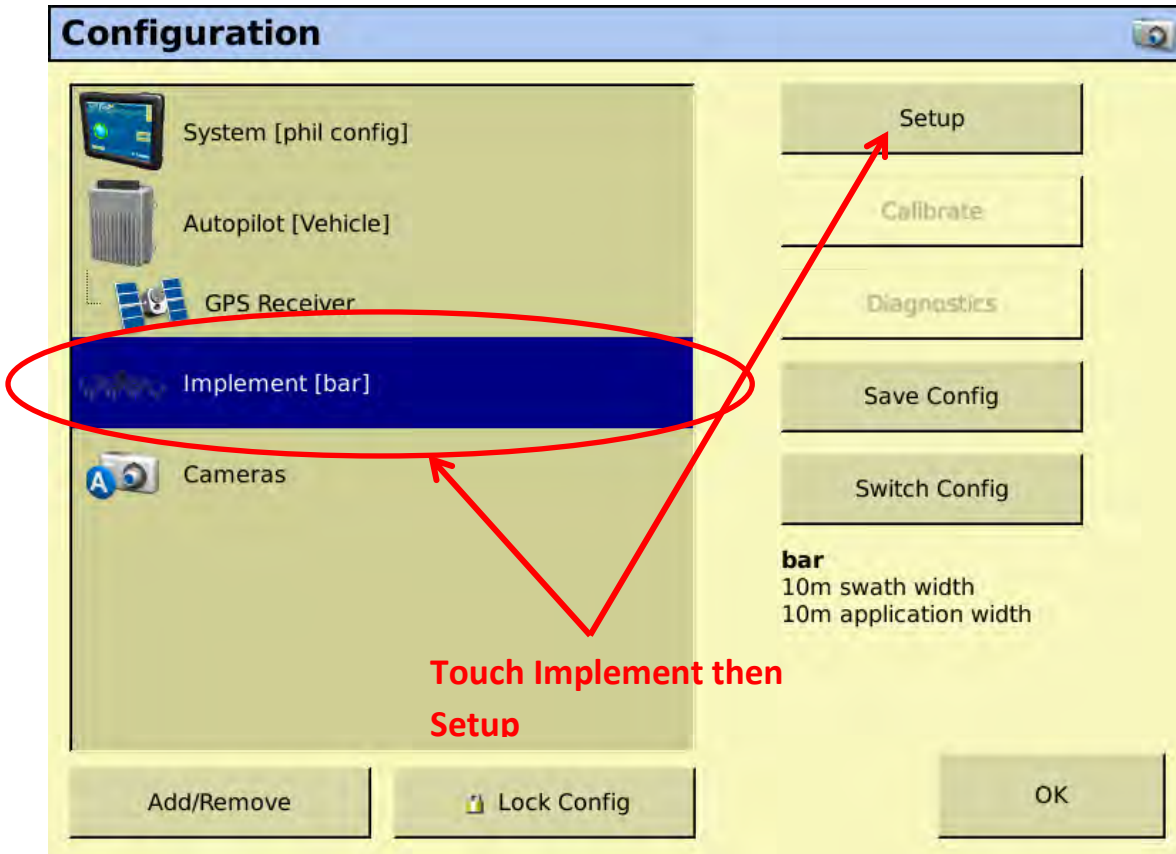
Must be performed whenever the NAV controller is removed or if there's a change in the GPS antenna location

## What do you need

- Tape Measure
- Marker
- Plumb bob & string
- An area we can drive a vehicle over with a relatively flat area at least 300m long

## Preparations before you perform a Roll Cal

- Remove the implement from the vehicle
- Vehicle draw-bar must be centred
- Ensure that you have the offline distance showing on your screen or status tab
- Set the Roll Offset value to zero first - see below



### Implement Setup

Implement Type | Measurements | Geometry | Overlap | Extras

Swath Width: 10.00 m **A**

Application Width: 10.00 m

Application Offset: -5.00 m **B**

Rows: 1

Left/Right Offset: 0.00 m **C**

Cancel Check if zero – if not touch on box OK

### Enter Left/Right Implement Offset

Range: 0.0 m ... 60.96 m

clear  <<

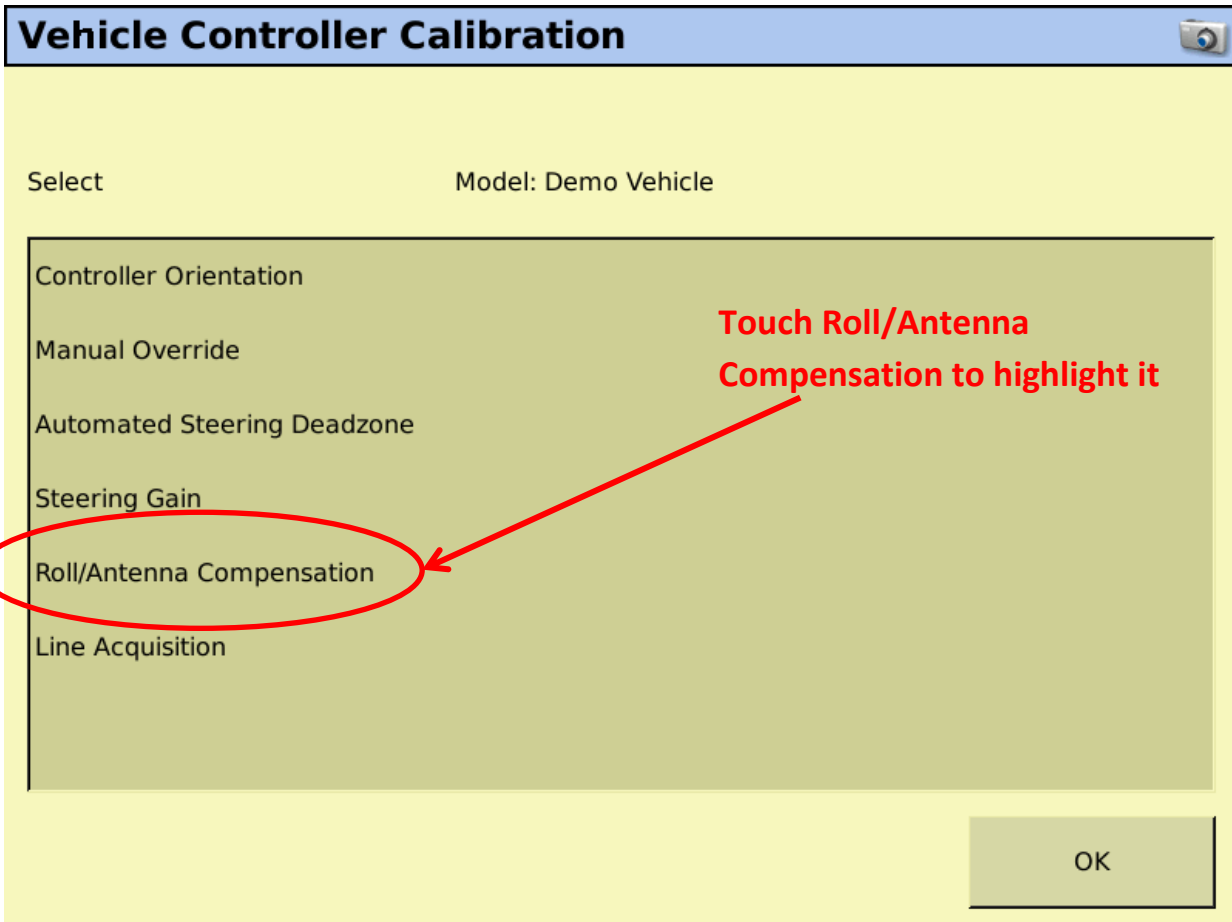
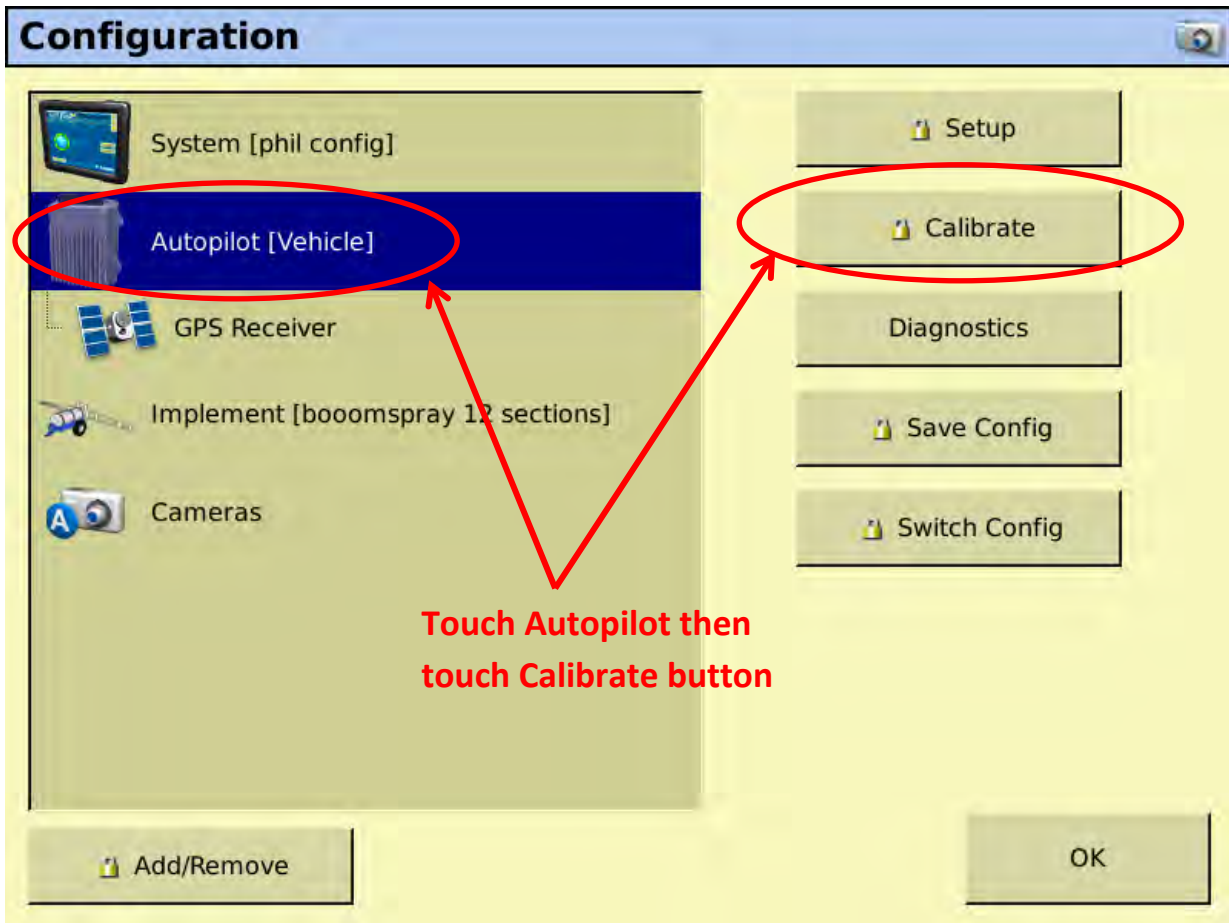
Type in zero then OK

Left | Right

1	2	3
4	5	6
7	8	9
0	.	

Metric | Feet & Inches | Decimal Feet

Cancel Calculator OK



### Autopilot Roll/Antenna Compensation

Antenna Height Above Ground

Antenna Distance From Fixed Axle

If roll offset distance is not zero, you need to touch in the box and it will bring up an input screen

Roll Offset

Vehicle Position

Cancel

OK

### Enter Roll Offset

clear  <<

Type in zero then OK

1	2	3
4	5	6
7	8	9
	0	.

Metric

Feet & Inches

Decimal Feet

Cancel

Calculator

OK

**Autopilot Roll/Antenna Compensation**

Antenna Height Above Ground 3.239 m

Antenna Distance From Fixed Axle 0.000 m

Now your offset starts at  
zero

Roll Offset 0.000 m

Vehicle Position Right of the line ▼

Cancel

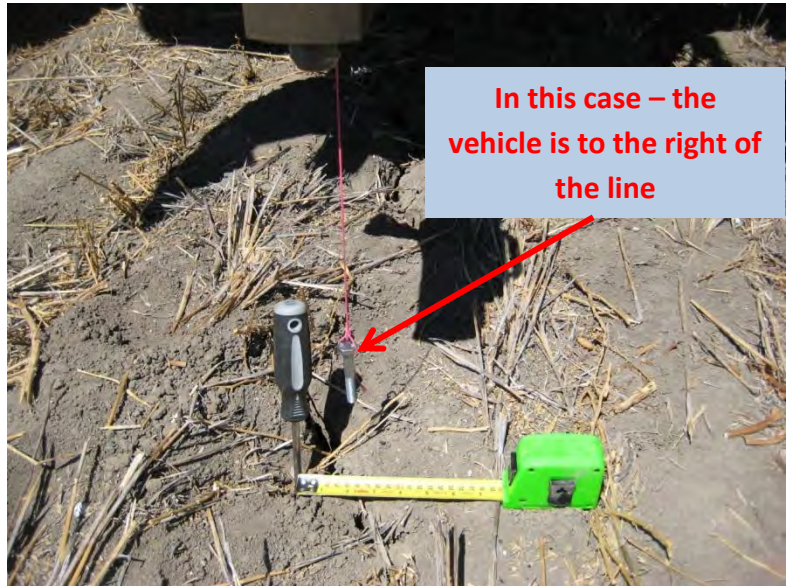
OK

1. Start a field and select an AB swath (or make a new one)
2. Drive for at least 50 to 100 meters and stop the vehicle is as close to zero as you can get (less than 0-01m)
3. Drop a plumb bob through the centered drawbar and mark on the ground with something like a screwdriver - level with the center.
4. Go forward at least 50-100 meters before you turn around and then come back on the same AB line and stop over the previously marked centre line. Ensure that the offline distance is still close to zero (less than 0.01m).
5. Measure the offset with a tape measure and which side the offset is.



Plumb bob in center of drawbar pin

Mark the position with a screwdriver or something suitable



In this case - the vehicle is to the right of the line

### Autopilot Roll/Antenna Compensation

Antenna Height Above Ground 3.239 m

Antenna Distance From Fixed Axle 0.000 m

Type in the offset distance

Roll Offset 0.000 m

Vehicle Position Right of the line

Ensure you choose whether the vehicle is right or left of your mark

Cancel

OK

Repeat the steps above and ensure that you end up with an offset not exceeding 0.01m You may need to do this 2-3 times before you get it completely correct