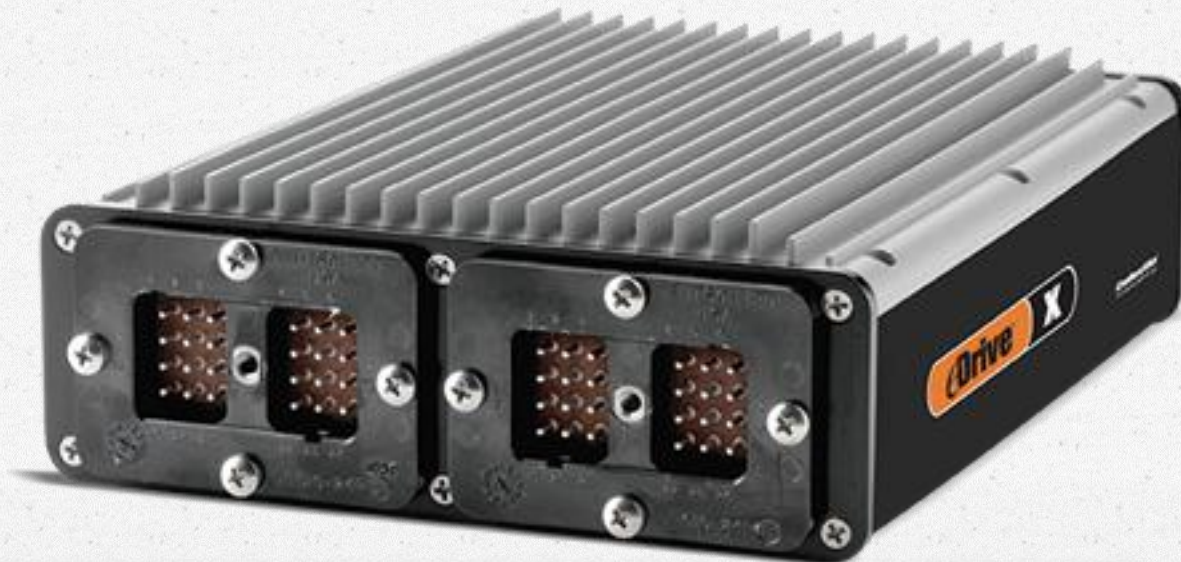


Common EDX Troubleshooting Issues



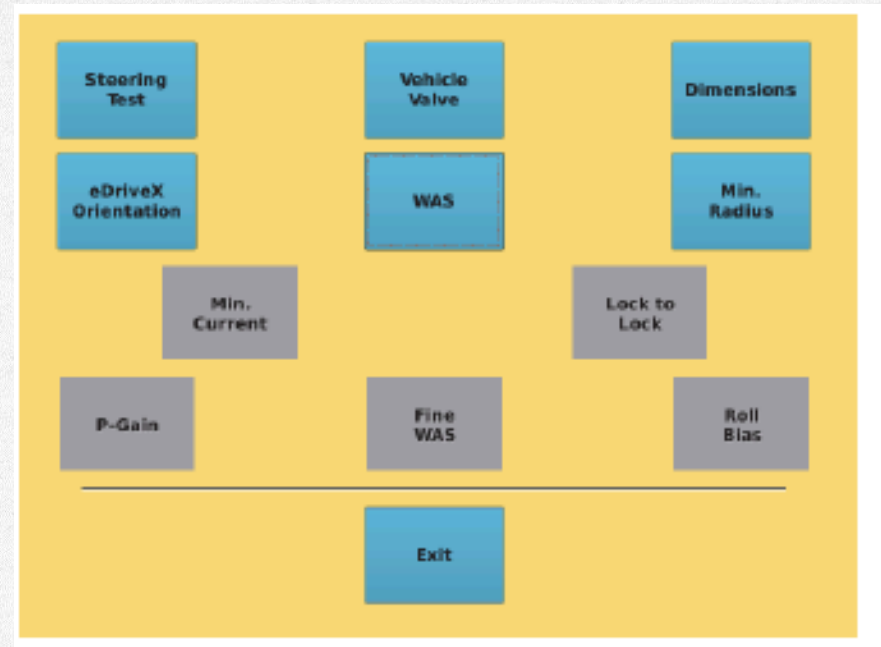
EDX Status Screen

The screenshot displays the EDX Status Screen with the following components:

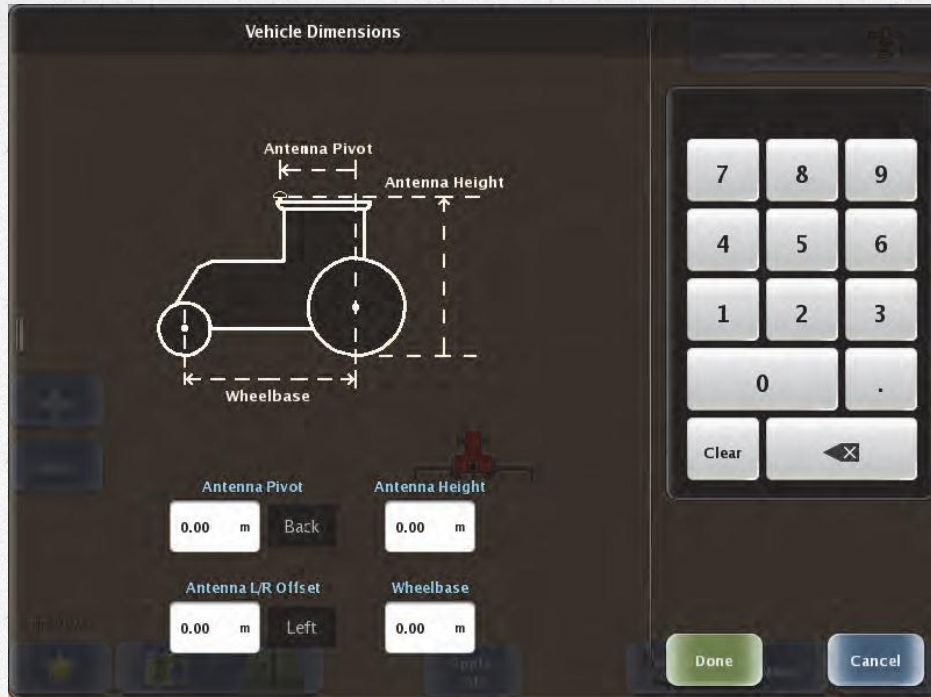
- Navigation Tabs:** Main (selected), Steer, Details, Status.
- Left Sidebar:**
 - Tractor icon
 - Map icon
 - Gears icon
 - RTK icon (1)
 - Wrench icon
- Main Content Area:**
 - Power/Ready/Valve Section:**
 - ✓ eDriveX power
 - ✓ eDriveX ready
 - ✓ eDriveX Hardware
 - ✓ Valve online
 - Orientation/Offsets Section:**
 - ✓ eDriveX orientation
 - ✓ Antenna offsets
 - ✓ Coarse WAS
 - ✓ Minimum radius
 - Engagement Section:**
 - ✓ Engaged
 - ✓ Engage Limits Satisfied
 - ✓ Ready to Engage
 - ✓ Steering override inactive
 - Sensors/Status Section:**
 - ✓ GPS sensor
 - ✓ DMU sensor
 - ✓ CAN OK
 - Control/Configuration Section:**
 - ✓ Minimum current
 - ✓ Lock to lock
 - ✓ P-Gain
 - ✓ Fine WAS
 - ✓ Roll bias
 - ✓ eTurns
 - Wayline/Position Section:**
 - ✓ Wayline
 - ✓ Position estimate
 - Filters converged
- Right Sidebar:**
 - Steering wheel icon with 'X'
 - Tractor icon
 - Waveform icon
 - A=B icon
 - Lightbulb icon
- Bottom Status Bar:**
 - Speed: 3.6km/h
 - Heading: 264.2°
 - Xtrack: 0.6cm
 - Pass: 0

Common EDX Calibration Issues

- Antenna Pivot
- ECU Orientation
- Valve Type
- NOTE: Calibration should be carried out at full hydraulic pressure

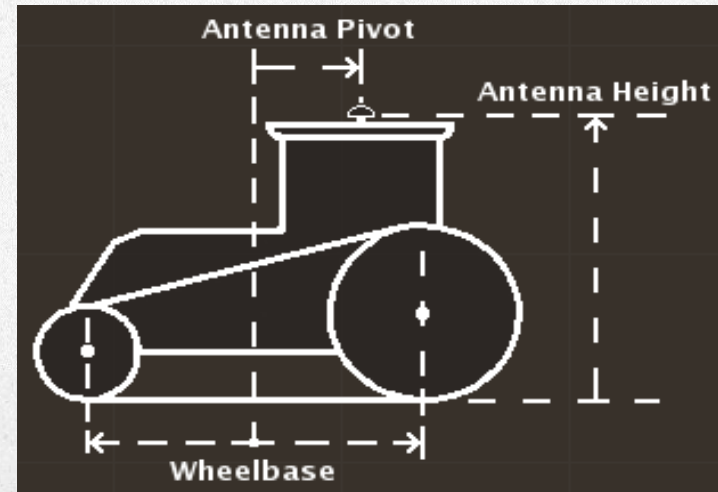
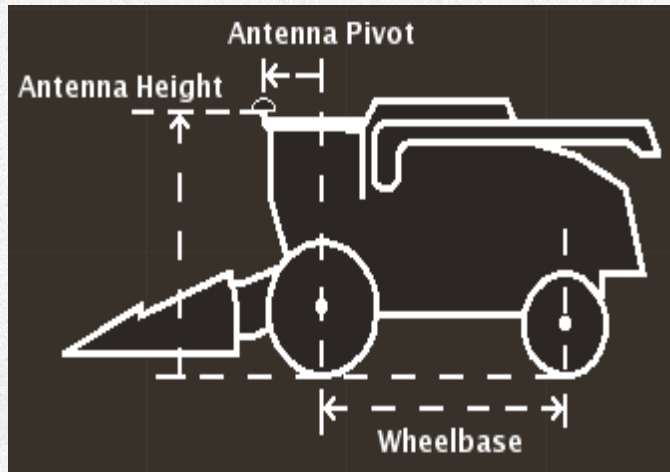
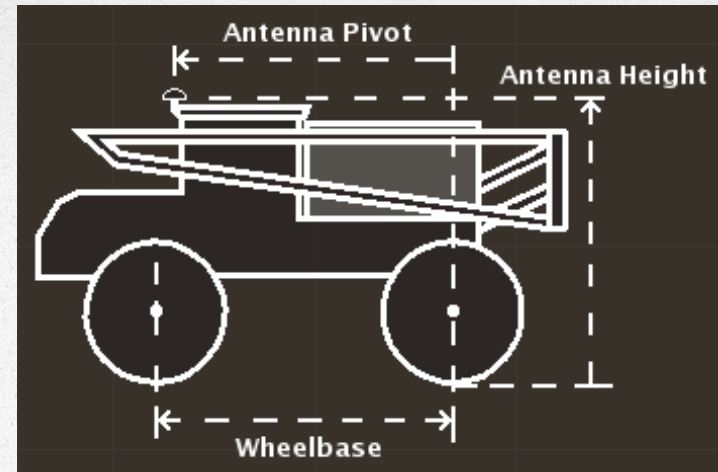
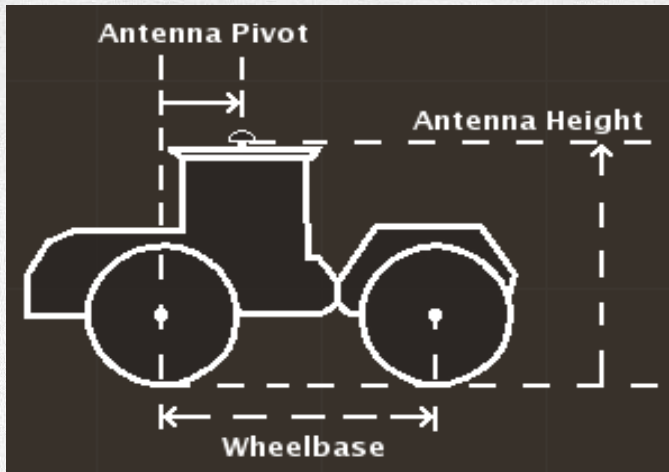


Antenna Pivot



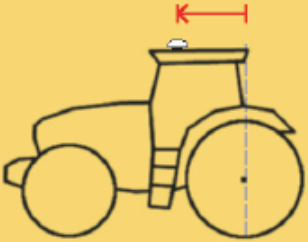
- Antenna Pivot – measure from pivot to antenna
- Front (antenna in front of vehicle pivot)
- Back (antenna behind vehicle pivot)
- Std- Front
- Articulated- Back
- Sprayer – Front
- Combine – Front
- Track - Back

Antenna Pivot



Antenna Pivot - STX

Standard tractor



Antenna Pivot
0.00m

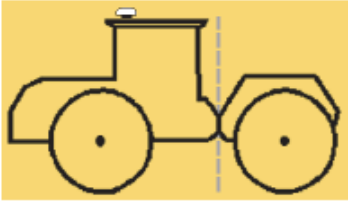
Antenna Height
3.00m

Antenna L/R
0.00m

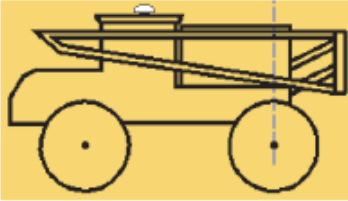
Wheelbase
3.00m

OK Cancel

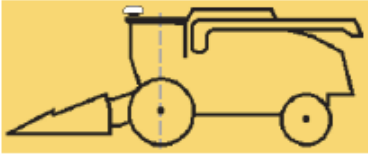
Articulated tractor



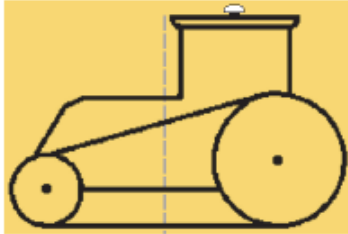
Sprayer



Combine



Tracked tractor



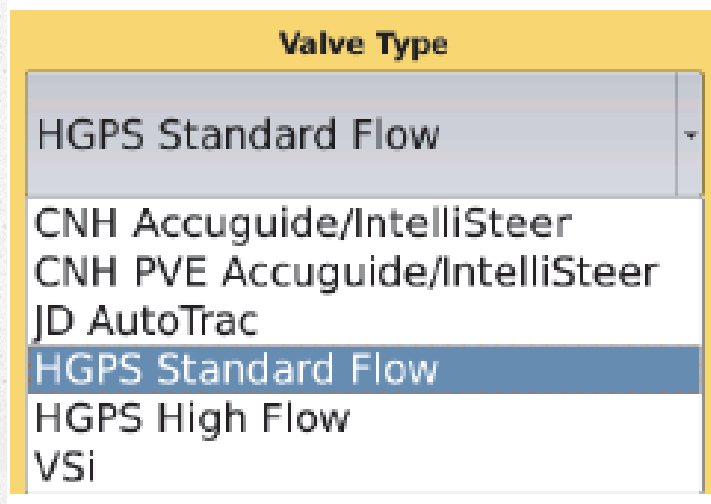
ECU Orientation



If ECU orientation is incorrect calibration will fail.
NOTE: TOP is the side with the cooling fins.

Valve Type

- If installing an Outback valve ALWAYS choose HIGH FLOW
- If this is incorrect calibration will fail



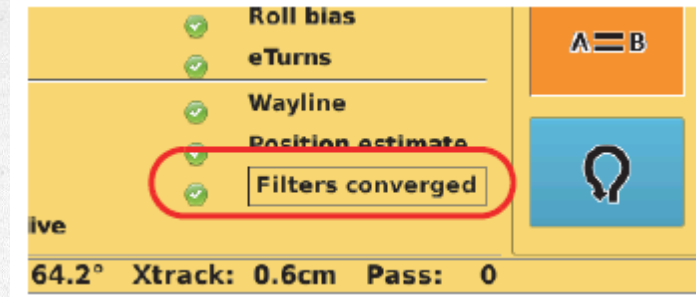
WAS Values

- Sensor sends a voltage reading to the Steering Controller. (0-5000mV)
Snapshot of this value in the Right, Left, and Center wheel positions.
NOTE: These values must be between 250 and 4750

Controller	eDriveX	Firmware	1.0.0.12440	Status	Connected
ECU Position	Top Right	Connector	Aft		
Current	Left 700-2500 mA	Right	700-2500 mA		
Radius	Min. Left 21.88ft	Min. Right	21.88ft		
Wheel Angle Sensor					
	Left 769	Center 2590	Right 4259		
GPS Course	0.00°	Roll Bias	0.0	Vehicle Gear	PARKED
Adjusted Course	0.00°	Roll	-0.322	Wheel Angle	-9.12

Bottom status bar: [Wrench] [Signal] 5s 3D [Steering Wheel] X [Tractor] [Folder] No Job [Gauge] 0.0 ac

Filters Converged



- If Antenna Pivot measurement is more than 1m out filters will not converge
- Filter data has to be saved to eliminate driving procedure at next startup (must drive at least 3 minutes under autosteering and stop before shutting EDX down.
- Upon system startup filters will self-converge after driving forward for at least 10 seconds.

Filters Converged

- Filters will need to be re-converged—and the new convergence data stored—if:
- The filter convergence data was never stored
- The antenna calibrated (entered) dimension is changed by more than 0.1 m
- The vehicle/valve type combination is changed to one that has not been used before

Filter Self-Convergence

On system startup, the filters converged status always indicates filters are not converged: this is normal. After you drive forward for at least 10 seconds, the status should become checked indicating the use of stored convergence data. If the status does not change, it indicates convergence data is not stored. Refer to “Re-converging Filters” below.

Re-converging Filters

Filters will need to be re-converged—and the new convergence data stored—if:

- The filter convergence data was never stored
- The antenna calibrated (entered) dimension is changed by more than 0.1 m
- The vehicle/valve type combination is changed to one that has not been used before (meaning there is no convergence data for the combination - see *Note: vehicle/valve combination*, page 57).

If re-convergence is required, establish the reason and, accordingly, reset the antenna data, complete the calibration process, and/or complete the driving requirements for convergence and convergence data storage as detailed in the preceding sections.