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**Outboard Pilot
Hydraulic Setup**

Initial Setup

Perform These Steps Before Commissioning

Getting Started

IMPORTANT

Before starting

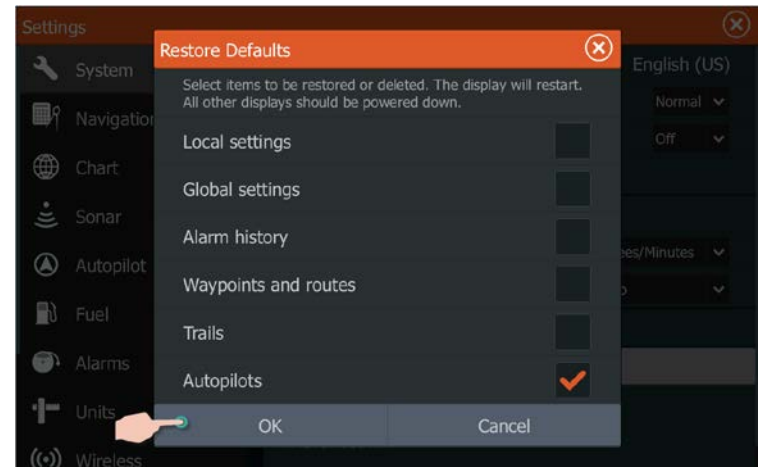
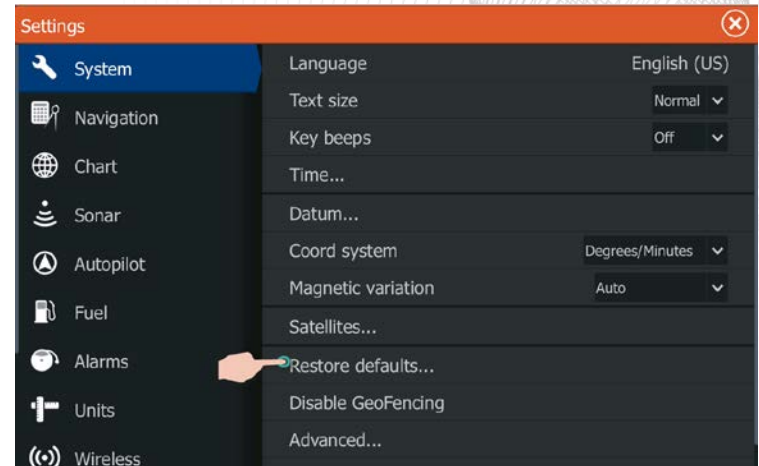
Make sure all HDS units, the NMEA 2000 network, and ALL devices connected to the network are completely powered up and ready for use.

Initial Setup

After installing the HDS Gen2 Touch - 4.5 software/HDS Gen3 - 2.0 software, do a Restore Default for the Autopilot.

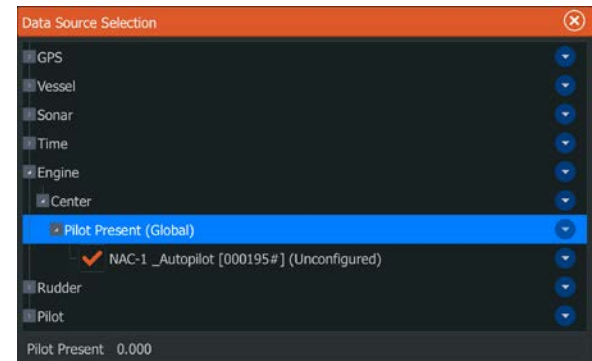
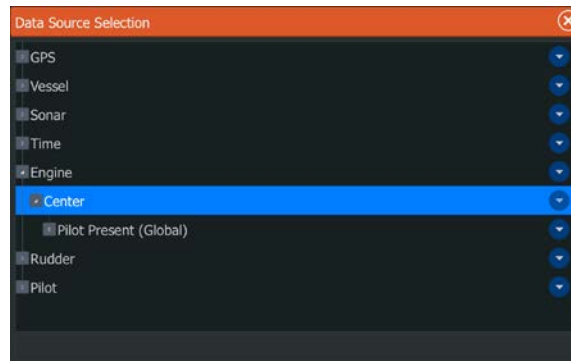
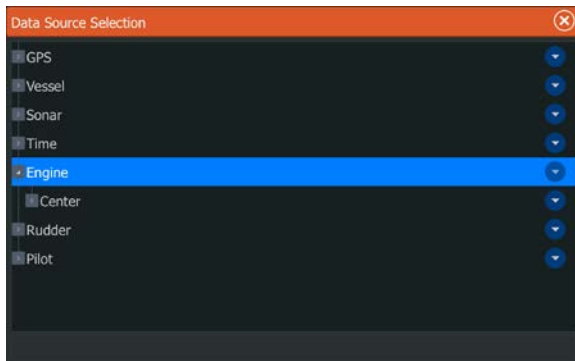
Put a check mark in the Autopilots box only and then select OK.

The Restore Defaults dialogue box will go away when the restore is complete.



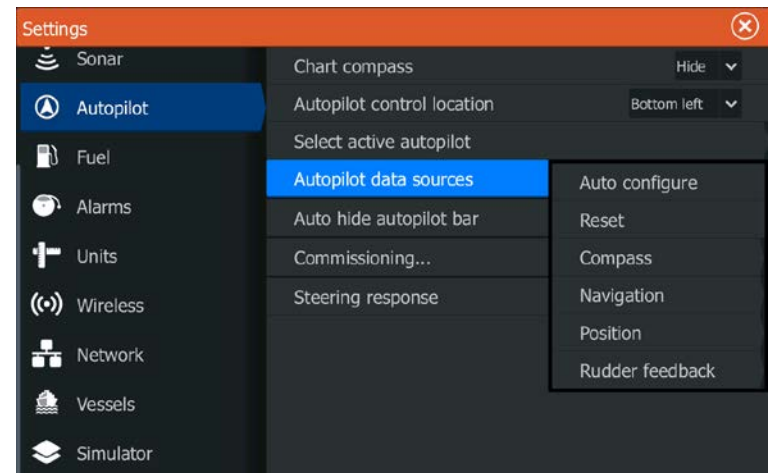
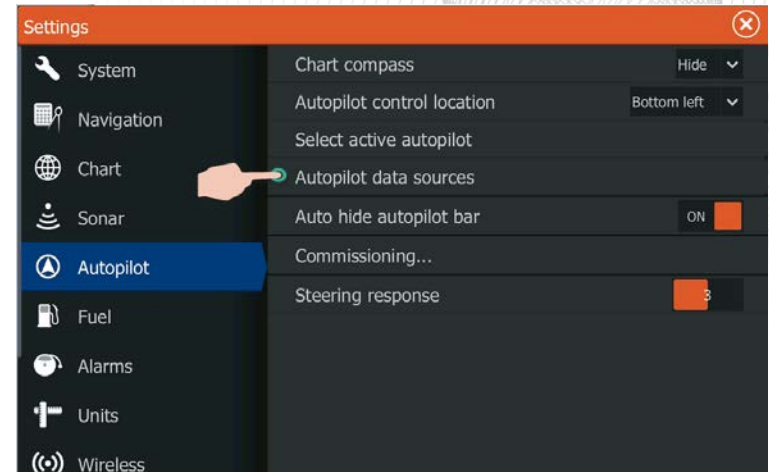
Engine Data Sources

- Press the Pages Key at the top right of the HDS unit.
- Select Settings and then Network from the right side of the screen.
- Press Data Sources.
- Then Select Engine
 - Center
 - Pilot Present
- You want to make sure you have the NAC-1 Autopilot with a checkmark in the box. *(Without a checkmark in this box, the Pilot will not commission properly)*



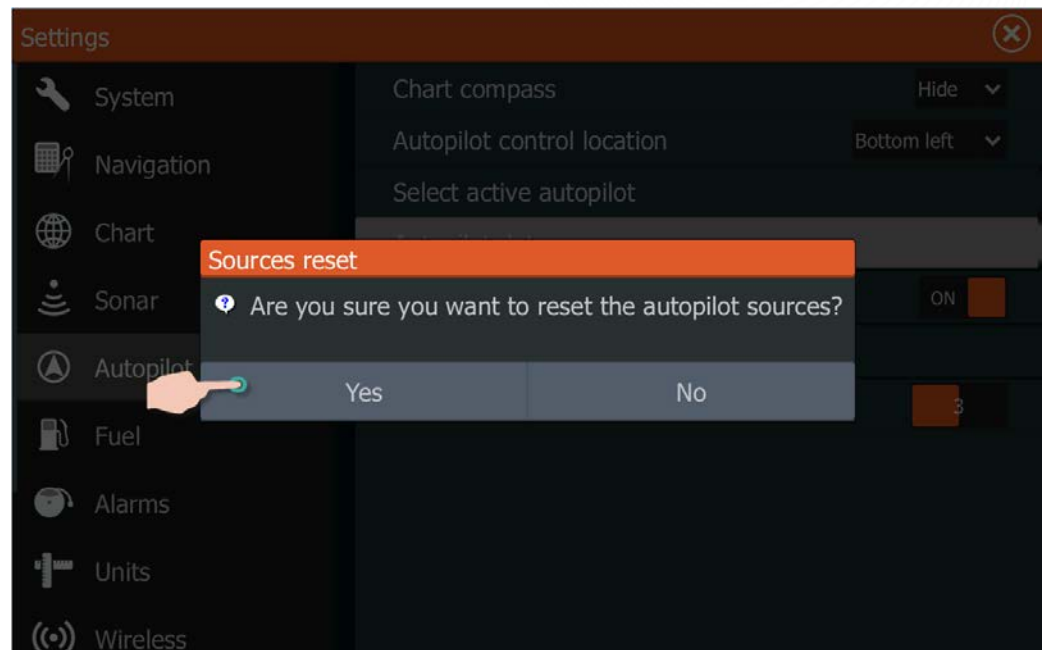
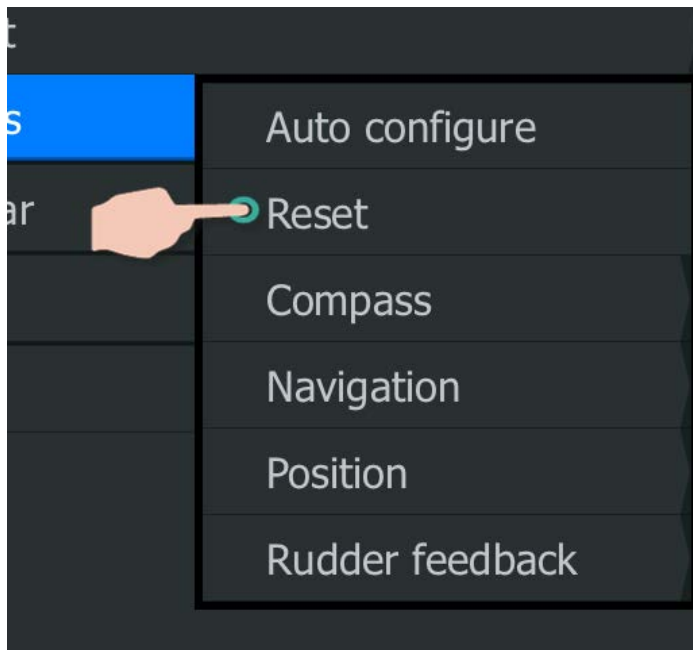
Auto Pilot Setup

- Press the Pages Key
- Select Settings
- Choose Autopilot
- Select Autopilot Data Sources
- The Autopilot Data Sources menu will appear on the screen



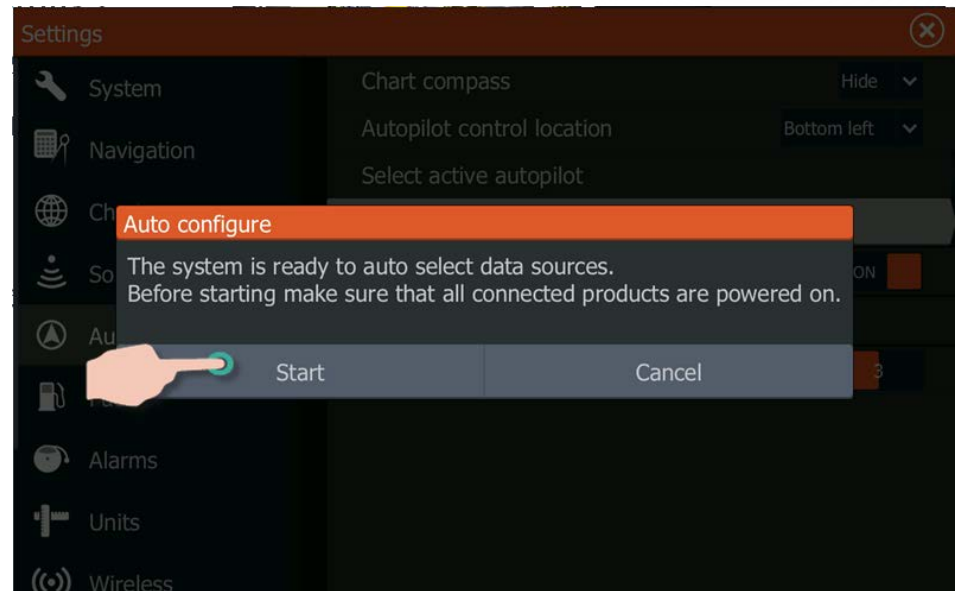
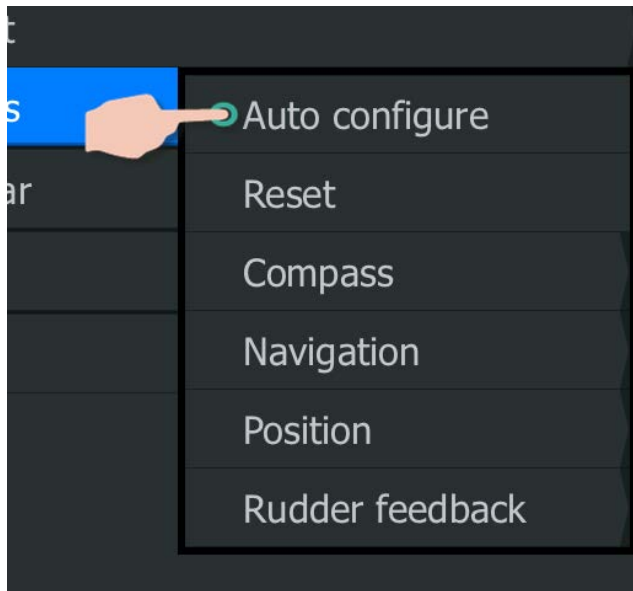
Auto Pilot Setup

- Select Reset
- Then choose Yes, when prompted. This will reset the Autopilot sources.



Auto Pilot Setup

- Next Select Auto Configure
- Then choose Start when prompted, to Auto Configure the Autopilot sources *(By doing this, the Autopilot computer will select the best sources on the network to receive the data it needs)*

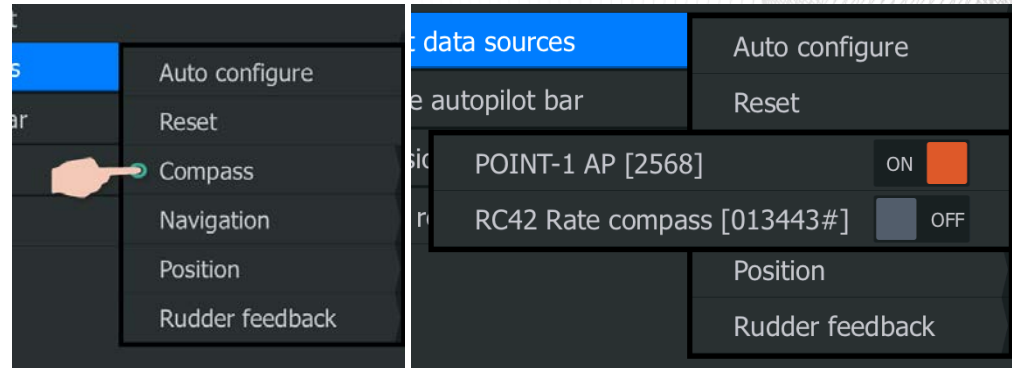


Auto Pilot Setup

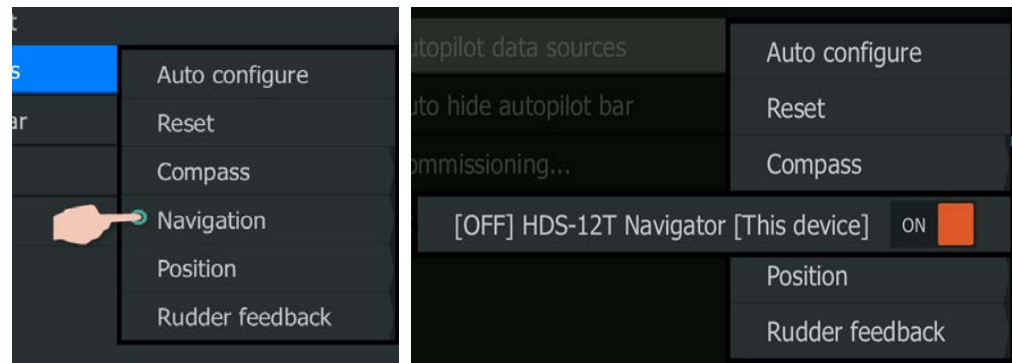
- Compass – Choose between:

- Point-1 AP (*Good*)
- RC42 (*Better*)

**If an RC42 is not connected, this option will not appear.*

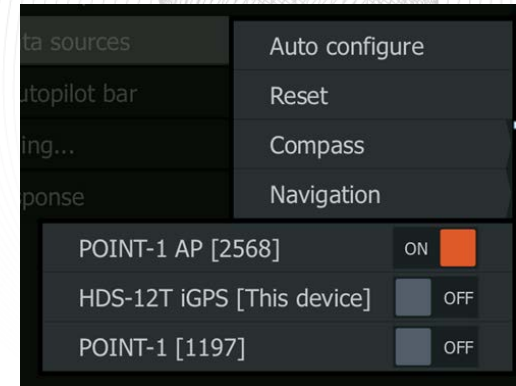
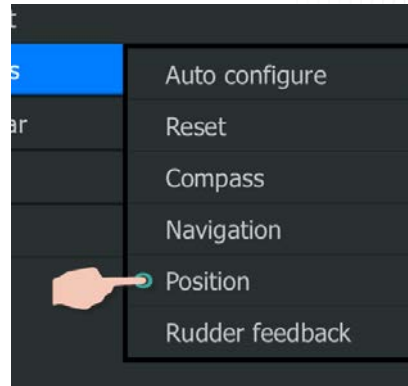


- Navigation – Multiple units can show up here. It is best to select the HDS unit mounted at the driver's console of the boat.

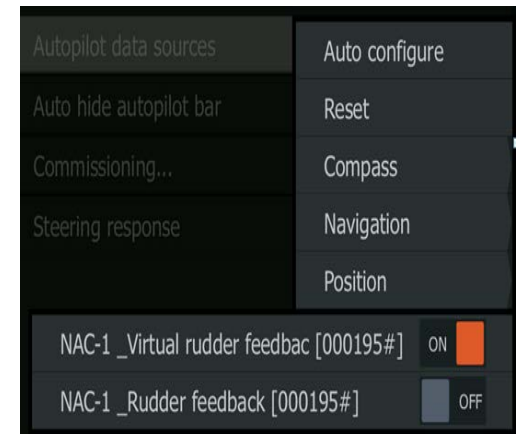
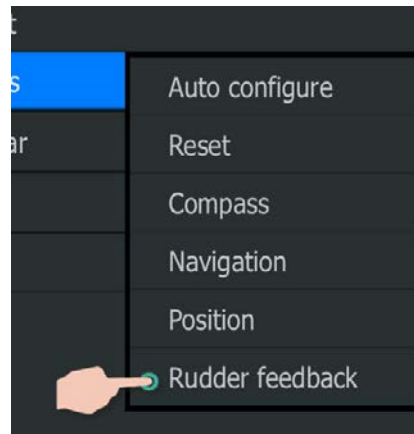


Auto Pilot Setup

- Position – Choose one of the following:
 - Point-1 (*This is the best option*)
 - Point-1 AP (*Choose if you only have a Point-1 AP on the boat*)



- Rudder Feedback
 - **Hydraulic Steering** = Virtual Rudder Feedback
 - Cable Steering = Rudder Feedback



Point-1 vs Point-1AP

- The Point-1 AP has been configured to use Raw unfiltered data, that the Autopilot requires to function properly.
- The Point-1 has filters and buffers in place to allow the HDS to compile the proper data to use with charts and radars.

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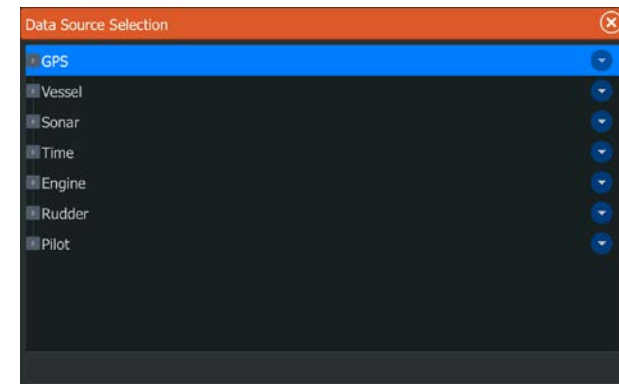
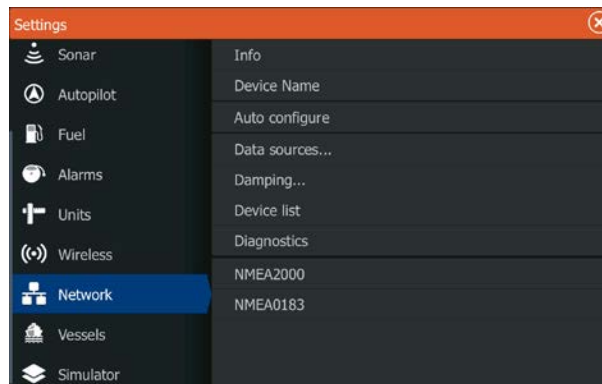
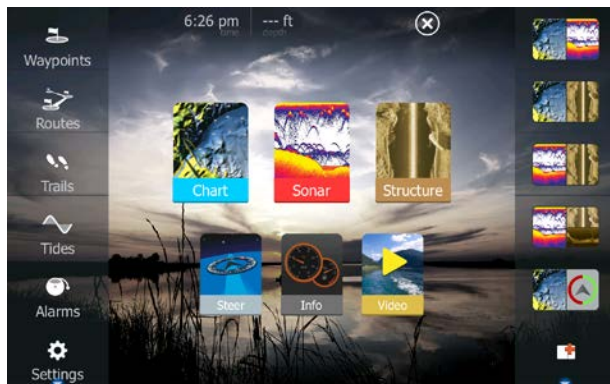
Your Outboard Pilot should now be ready to commission. If you are still having issues, Please use the following information to verify your data source settings.

Network Data Sources

Verify Data Sources if Having Trouble Commissioning

Setting up Network Data Sources

- Press the Pages Key — *(Upper right corner of the HDS unit)*
- Select Settings — *(Bottom left corner of the screen)*
- Choose Network — *(Left side of the screen)*
- Select Data Sources



Data Sources – Point-1 AP Only

Data Source	Select Point-1 AP
GPS	All Data
Vessel	Heading
	Rate of Turn
	Attitude Pitch
	Attitude Roll

Data Source	Select NAC-1
Vessel	Rate of Turn Order
Engine	Center/Pilot Present
Rudder	1/Rudder Angle (VRF)
Pilot	Command Rudder Angle
	Rudder Limit
	Pilot Drift
	Command Rudder Direction
	Set Heading

Data Sources – Point-1 AP & Point-1

Data Source	Select Point-1 AP
GPS	All Data
Vessel	Rate of Turn
	Attitude Pitch
	Attitude Roll

Data Source	Select Point-1
Vessel	Heading

Data Source	Select NAC-1
Vessel	Rate of Turn Order
Engine	Center/Pilot Present
Rudder	1/Rudder Angle (VRF)
Pilot	Command Rudder Angle
	Rudder Limit
	Pilot Drift
	Command Rudder Direction
	Set Heading

Troubleshooting/Tips/FAQ

Tip #1 – You will not be able to carry out the Rudder Feedback Test seen below the calibration button.

Tip #2 – If you find your AP being totally unresponsive, go to your data sources and ensure that Virtual Rudder Feedback is selected.

Tip #3 – Ensure that your Point-1 AP is correctly installed BEFORE engaging your new Autopilot.

Tip #4 – Remove any “slack or play” in your steering linkage connected to the motor.

Tip #5 – If you find the AP is taking a bit long to correct heading when idling/trolling, change the AP Sensitivity from 3 (default) to 5.

Tip #6 – If you find the AP over correcting while travelling at speed, change the AP Sensitivity to 1.

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