



NAVnet

TZtouch2

Yamaha on NavNet TZtouch2

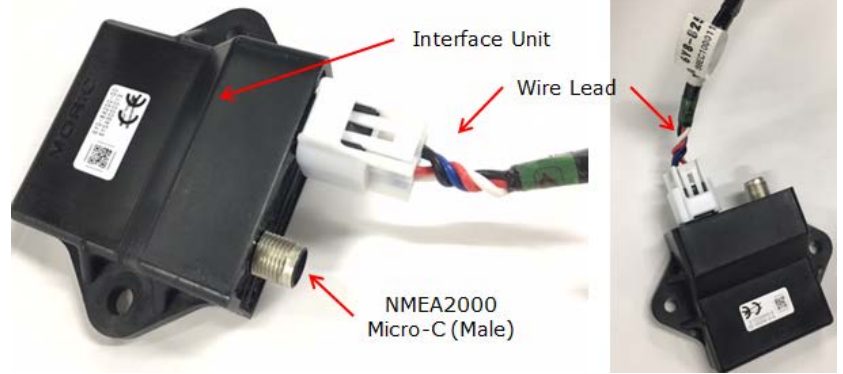
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Code	Factory Model Name	US Model Name	Remarks	Digital Network Meter Command Link/Plus
6JB	FL300C*	LF300*A	4.2L V6 Offshore	✓
6AW	F350A*	F350*CC	5.3L V8 Offshore	✓
6AX	FL350A*	LF350*CC	5.3L V8 Offshore	✓

* = any letter at this position

2.2. Network with Yamaha Engines

The TZTL12F/15F should be connected to Yamaha engine network via the **Yamaha interface model: 6YG, supplied by Yamaha.** Before networking the TZTL12F/15F to the Yamaha engine, arrange the 6YG through a local Yamaha representative.

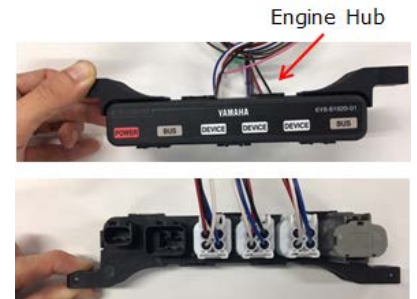


Yamaha Interface Model: 6YG

Yamaha Model Code	Name	Remarks
6YG-8A2D0-00	INTERFACE UNIT	Gateway
6YG-82521-00	WIRE LEAD	NMEA cable (male/female, 2 ft)

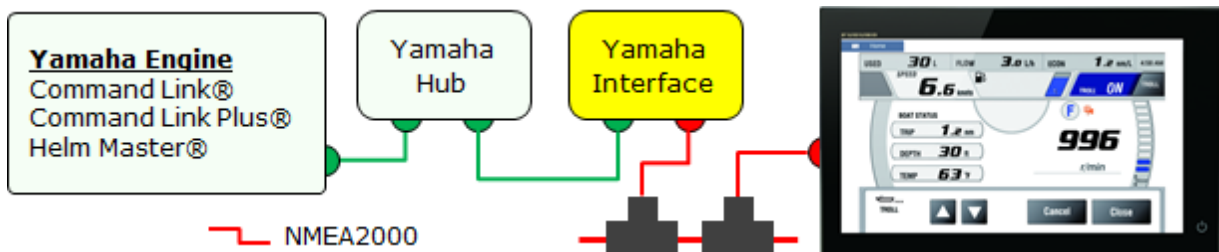
Note:

Make sure that the Yamaha engine hub (Yamaha supply) is also available onboard.



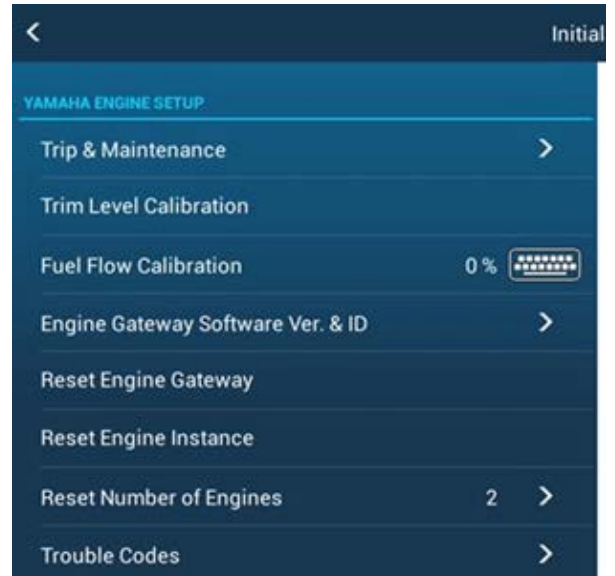
Yamaha Engine Hub

The following drawing shows an overview of network: Connect the Yamaha Interface to the engine hub and NMEA2000 backbone.



3. Setting Up for Yamaha Engine Display

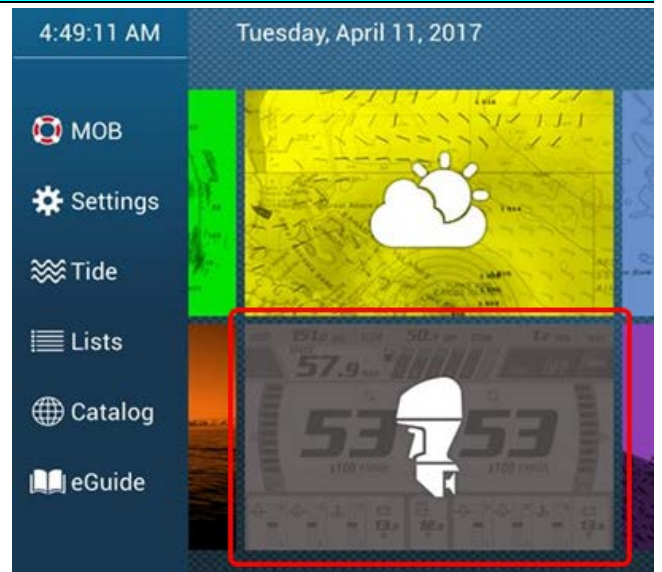
Once the TZTL12F/15F detects the Yamaha engine network, the dedicated setup page is available in [Settings] – [Initial Setup] – [YAMAHA ENGINE SETUP] or a window will pop up to prompt you to this page, where you can access basic setup and calibration.



4. Utilizing Yamaha Engine Display

4.1. Yamaha Engine Page

The TZTL12F/15F complies with the specifications of Yamaha for graphical designs and available functions as an approved indicator. In the Home page, a new tile shown at right is available to access the Yamaha page in a full screen.



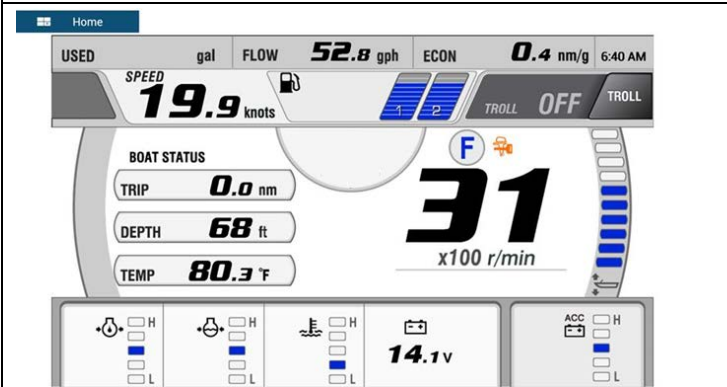
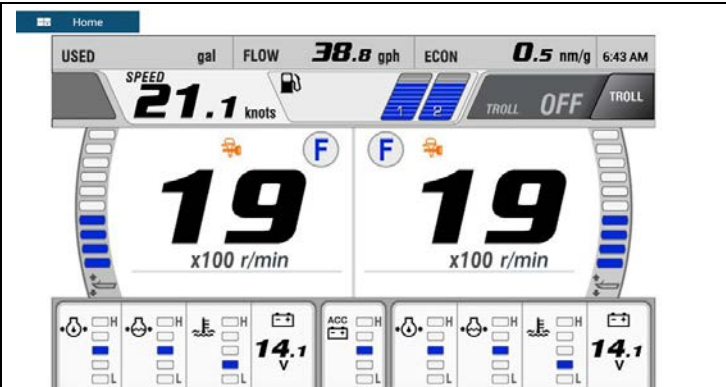
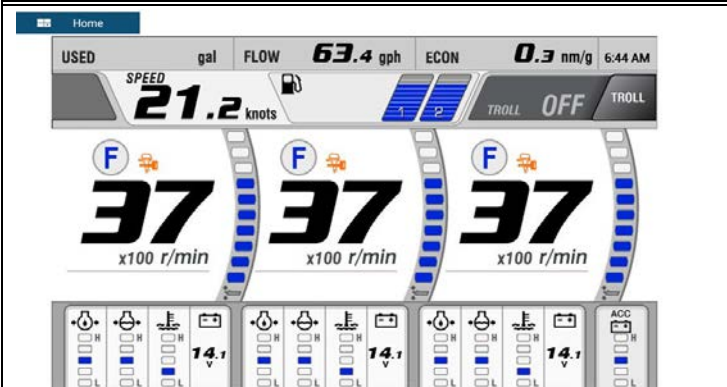
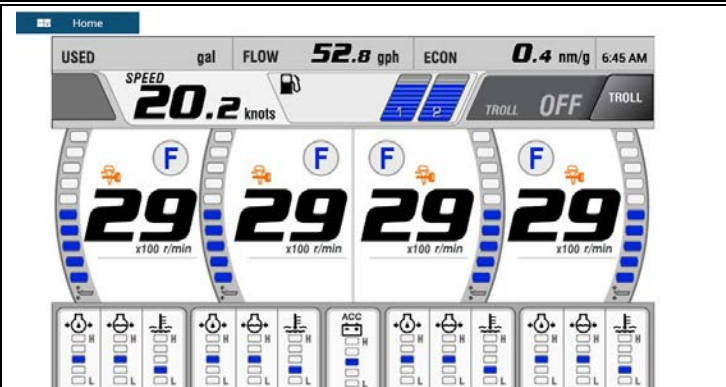
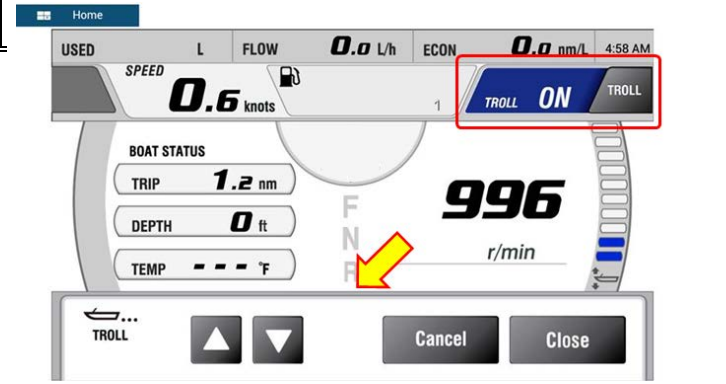
Home – Access to Yamaha Page

Note:

The Yamaha page is available in a **full screen mode only**, while the quarter size screen is planned for future update.

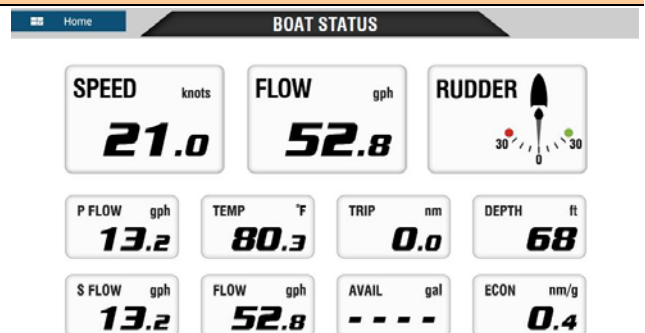
A total of two (2) screen options are available in the Yamaha page for **Engine Display** and **Boat Status**.

Engine Display

Single Engine	Twin Engine Combo (2 Engines)
 <p>Single Engine Display Screenshot: Shows speed at 19.9 knots, flow at 52.8 gph, and engine RPM at 31 x100 r/min. TROLL is OFF.</p>	 <p>Twin Engine Combo Display Screenshot: Shows speed at 21.1 knots, flow at 38.8 gph, and two engine RPM gauges both at 19 x100 r/min. TROLL is OFF.</p>
Triple Engine Combo (3 Engines)	Quad Engine Combo (4 Engines)
 <p>Triple Engine Combo Display Screenshot: Shows speed at 21.2 knots, flow at 63.4 gph, and three engine RPM gauges all at 37 x100 r/min. TROLL is OFF.</p>	 <p>Quad Engine Combo Display Screenshot: Shows speed at 20.2 knots, flow at 52.8 gph, and four engine RPM gauges all at 29 x100 r/min. TROLL is OFF.</p>
Troll Mode	
<p>In the Engine Display screen, Troll Mode can be turned on or off and the engine RPM can be adjusted.</p> <p>See Section 4.2. for details on how to utilize the Troll Mode in combination with autopilot NAVpilot-711C.</p>	 <p>Troll Mode Display Screenshot: Shows speed at 0.6 knots, flow at 0.0 L/h, and engine RPM at 996 r/min. The TROLL ON button is highlighted with a red box, and a yellow arrow points to the RPM value.</p>

Boat Status

In addition to engine data, the boat status is also available.



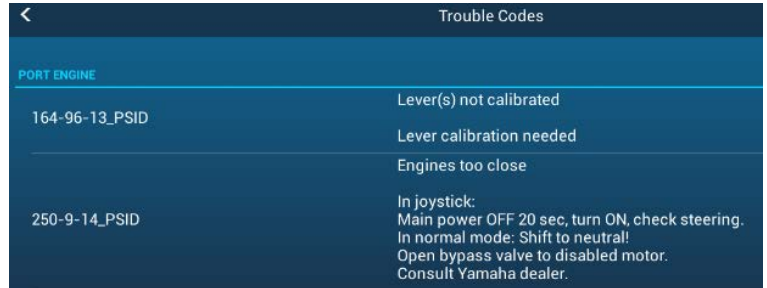
Boat Status Display Screenshot: Shows various boat metrics including SPEED (21.0 knots), FLOW (52.8 gph), RUDDER (30 degrees), P FLOW (13.2 gph), TEMP (80.3 °F), TRIP (0.0 nm), DEPTH (68 ft), S FLOW (13.2 gph), FLOW (52.8 gph), AVAIL (--- gal), and ECON (0.4 nm/g).

YAMAHA ENGINE SETUP Menu

In addition to Engine Display and Boat Status screens, other information can be checked in [Settings] – [Initial Setup] – [YAMAHA ENGINE SETUP] menu. As an example, **trouble codes** generated by the engine(s) can be reviewed in [Trouble Codes] and **fuel used**, **trip distance**, **engine trip**, and **engine maintenance hour** can be reset in [Trip & Maintenance].

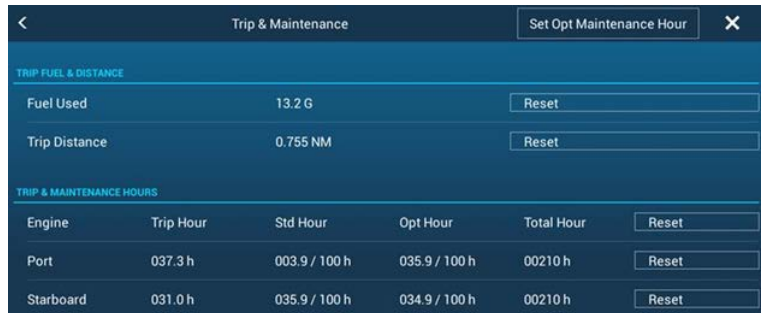
E.g. Trouble Codes

Trouble codes with detailed descriptions are available on the TZTL12F/15F screen.



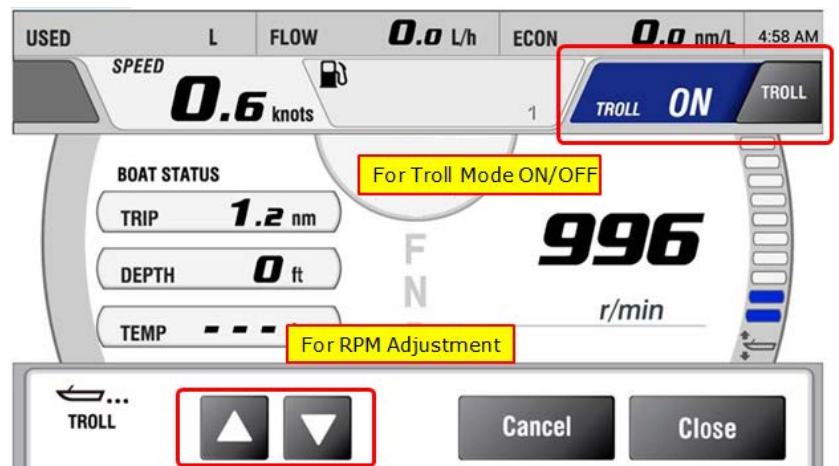
E.g. Trip & Maintenance

In this page, the trip and fuel information can be reset.



4.2. Troll Mode with NAVpilot-711C SABIKI Mode

The Troll Mode of Yamaha enables the engine to operate at a lower RPM, which is suitable for trolling while fishing. The TZTL12F/15F Yamaha Engine page can **turn on the Troll Mode**. After activating the Troll Mode, **the engine RPM can be incrementally adjusted with the TZTL12F/15F by tapping on the large virtual icons**, depending on the condition of the boat and environment.



One of the situations where the Troll Mode adjustment is utilized is the **NAVpilot-711C SABIKI mode**: The NAVpilot-711C SABIKI mode controls the reverse motion of outboards. The boat heading will be stabilized while a boat slowly moves astern in the direction of wind and/or current for fishing. You just need to adjust the engine throttle(s) between neutral and reverse. **Under the Troll Mode, the engine RPM adjustment with the TZTL12F/15F large icons can make it easier to incrementally adjust the speed compared to manual throttle operation.**

4.3. NMEA2000 PGN: 127488 and 127489 via Yamaha Interface

The standard **NMEA2000 PGN: 127488 (Engine Parameters, Rapid Update)** and **PGN: 127489 (Engine Parameters, Dynamic)** are available in the NMEA2000 backbone through the Yamaha interface unit. In addition to the dedicated Yamaha page on the TZTL12F/15F, the conventional **Instrument page** can be utilized to show the engine data from these PGNs.



TZTL12F/15F – Instrument Page

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