

Engine identification & setup for LightHouse MFDs

Engine identification

Engine data can be displayed on your MFD using the Data application, which provides some preset Engine pages for displaying some of the most common types of engine data.

Important: Before you can display Engine data on your MFD, you must:

- Ensure that your MFD is running LightHouse software version 8 or later.
- **Refer to the important “Engine setup with an ECI interface” and “Using the engine identification wizard” information.**
- Make the data connections, according to the instructions provided in the **87202 ECI Installation instructions**.
- Ensure all data buses are powered up (including engine data CAN buses, gateways, and also the SeaTalk^{ng} bus).
- Start the engine. It is important that only one engine is running at a time, to ensure that the system can isolate the correct engine data message.
- Run the **Engine identification wizard** to ensure that your engines are displayed in the correct order in the Data application.



Engine setup with an ECI interface

Before you can display engine data on your MFD, you may need to use the "Engine Identification wizard" on the MFD to setup the engines.

Note: Engine setup is NOT required for single engine vessels.

The following table details the different types of engine supported by the ECI interface unit, and the setup requirements for each:

Engine CAN bus protocol	Number of engines	Engine CAN bus configuration	Number of ECI units	Setup via wizard on MFD required
NMEA 2000	1	Single CAN bus	1	✗
NMEA 2000	2+	Single shared CAN bus	1	✓
NMEA 2000	2+	Separate CAN bus for each engine	1 for each CAN bus	✓
J1939	1	Single CAN bus	1	✗
J1939	2+	Single shared CAN bus	1	✓
J1939	2+	Separate CAN bus for each engine	1 for each CAN bus	✓

Using the engine identification wizard

If your engine data appears in the wrong order on the engine data pages you can correct this by running the engine identification wizard.

From the Homescreen:

1. Select **Set-up > System Settings > External Devices > Engines Set-up.**
2. If required change the number of engines your vessel has by selecting **Num. of Engines:** and entering the correct number of engines.

You can select up to 5 engines.

3. Select **Identify engines.**

Important: It is important that only one engine is running at a time, to ensure that the system can isolate the correct engine data message.

4. Follow the onscreen prompts to complete the engine identification wizard.

The engines that will be included in the identification wizard are determined by the Number of engines set during step 2 above.

- i. Switch Off ALL vessel engines and select **Next.**

The wizard will run through all engines (max of 5 as defined in step 2 above) from port to starboard in sequence.

- ii. Turn On the **port engine** and select **OK.**

The wizard will now listen for data and assign the engine instance as the port engine.

- iii. Turn On the **center port engine** and select **OK.**

The wizard will now listen for data and assign the engine instance as the center port engine.

- iv. Turn On the **center engine** and select **OK.**

The wizard will now listen for data and assign the engine instance as the center engine.

- v. Turn On the **center starboard engine** and select **OK.**

The wizard will now listen for data and assign the engine instance as the center starboard engine.

- vi. Turn On the **starboard engine** and select **OK.**

The wizard will now listen for data and assign the engine instance as the starboard engine.

5. Select **OK** on the Identify Engines confirmation dialog.

The engines will now appear in the correct location on the engine data page.