



# NAVnet

## TZ2 touch

## Manual Fuel Management

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# 1. Introduction

Tank level information has been available on the TZTL12F/15F Data Box and Instrument page by receiving the NMEA2000 PGN: 127505 – Fluid Level. TZTL12F/15F v4.01 and later now has the ability to calculate the remaining fuel based on the manually entered tank capacity, as well as fuel consumption from NMEA2000 PGN: 127489 – Fuel Rate. This document describes how to utilize **Manual Fuel Management**.

## IMPORTANT NOTICE:

(1) The tank level information will be based on the manually entered tank capacity and refilled fuel volume. The indication may be inaccurate when the entered values are incorrect or due to the condition of fuel rate sensor.

(2) While the engine is running, at least one TZTL12F/15F should always be turned on in order to keep calculating the fuel consumption.

## 2. Manual Fuel Management setup procedures

To manually manage the tank level, set a total fuel tank capacity on the TZTL12F/15F.

(1) Access [Settings] – [Initial Setup] – [MANUAL FUEL MANAGEMENT].

**Note:**

Unless the total fuel capacity is entered, the [Manual Fuel Management] setting is deactivated (grayed out).

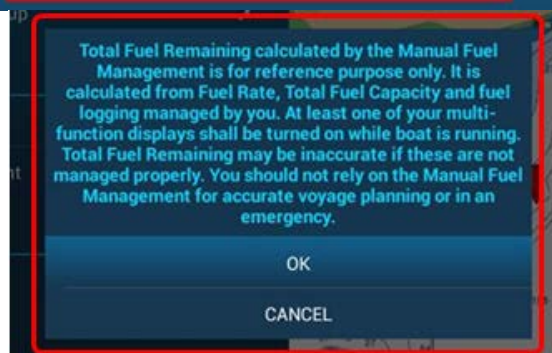
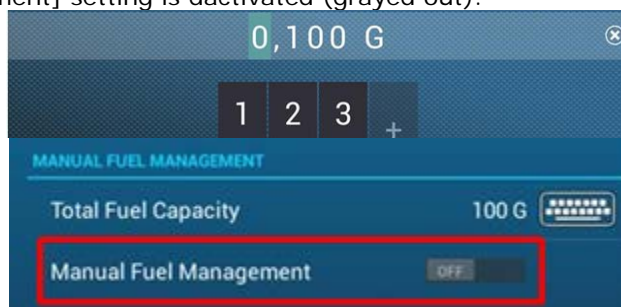
(2) In [Total Fuel Capacity], enter the total fuel tank capacity.

In this example, [100 G (gallon)] is entered as tank capacity.

(3) The [Manual Fuel Management] setting option is now available. Set [Manual Fuel Management] to [ON].

(4) Read the warning message carefully and press [OK] to proceed.

(5) Confirm that [Manual Fuel Management] is [ON].



### 3. Showing Manual Fuel Tank Level

Based on the fuel tank capacity and fuel consumption from NMEA2000 **PGN: 127489 – Fuel Rate**, the fuel tank level can be displayed in the Data Box and Instrument page.

(Below: Data Box / Right: Instrument)



**Tips:**

(1) You can also utilize the Alarm menu to remind you of the low fuel tank level.

Access [Settings] – [Alarm] – [Low Fuel Alarm Level] and enter a value in [%]. In this example, when the tank level reaches 20% of the capacity, the alarm will be generated.



(2) In addition to the manual tank level, a maximum of six (6) tank gauges for each fluid type other than fuel can also be displayed, such as fresh water, waste water, live well, etc.

(3) When the Manual Fuel Management is turned on, only one (1) fuel tank is displayed. Other fuel tanks cannot be displayed. The following screenshot is taken from [Settings] – [Initial Setup] – [INSTRUMENT SETUP] – [Engine & tank Manual Setup], and you can see that only one (1) tank from manual management is shown in the list.

Engine & Tank Manual Setup				
TANK SENSOR				
Instance	Data Source	NickName	Fluid Type	Used For Propulsion
0	Manual	Manual Fuel Tank	Fuel	OFF
1	SI (80-911-0014-00)	Fresh Water	Fresh Water	OFF
3	Porter	Fresh Water 2	Fresh Water	OFF
2	SI (80-911-0014-00)	Waste Water 2	Waste Water	OFF
0	Porter	Waste Water	Waste Water	OFF
3	SI (80-911-0014-00)	Live Well 2	Live Well	OFF
1	Porter	Live Well	Live Well	OFF
4	SI (80-911-0014-00)	Oil 2	Oil	OFF
2	Porter	Oil	Oil	OFF
0	SI (80-911-0014-00)	Black Water	Black Water	OFF

## 4. Managing Fuel Tank Level Manually

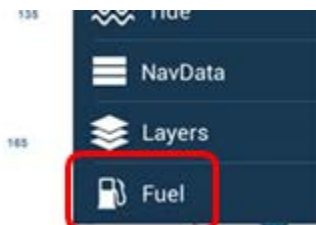
Once the Manual Fuel Management is turned on, you are ready to manage the tank level manually every time the tank is refilled. As an example, the fuel tank capacity is 100 G as being set in **Section 2**, and 50.0 G (50%) is remaining as shown at right.



After refilling the fuel tank, the tank level should be manually adjusted to show the latest level.

(1) Swipe the screen from the right edge to the left, the fuel management option is available as shown at right.

(2) Select [Fuel].



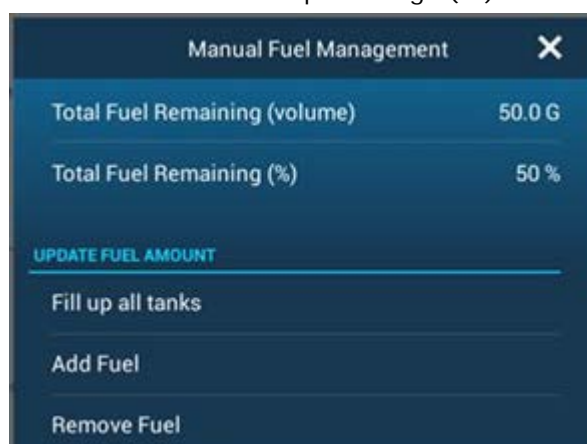
The Manual Fuel Management window will appear. The remaining fuel is shown in volume and percentage (%).

### [Fill up all tanks]

When the fuel tank is refilled to full, select this option. The level indication will be back to [100%].

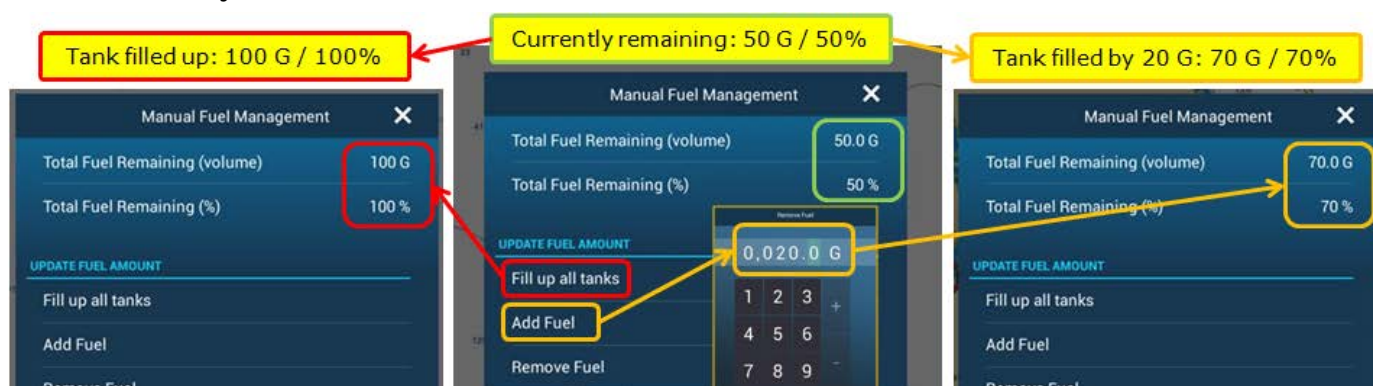
### [Add Fuel]

When the fuel is refilled by certain volume, enter the refilled volume. In the example below, 20 gallons are refilled. After entering [20 G], the level indication will be [70 G] / [70%].



### [Remove Fuel]

If you happen to manually enter too much volume, you may enter the volume to be reduced, so that the level indication will be adjusted.



### Note:

The [Low Fuel Alarm] will be generated when the Manual Fuel Management is turned off. Restart the TZTL12F/15F to clear the alarm.

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