

# TANK OWNER'S OPERATION MANUAL



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Congratulations on selecting a Fuel Storage Limited fuel tank. To help our valued customers get the best results from our 100% New Zealand made tanks, the information contained in this manual will assist you on how to continue to keep your fuel tank in good working order.



### 2.0 WARRANTY

Fuel Storage Limited (hereinafter referred to as the Manufacturer) warrants the tank(s) to be free from any defect in tank shell material or workmanship under normal use and service for the period of a lifetime from the date of shipment.

There is a twelve-month warranty on the pumping system, running gear and components.

Transfer pumps have a two-year warranty period.

The paintwork on the tank has a warranty period of five years if appropriately maintained to the general requirements outlined in this manual.

#### **General Warranty Terms**

Each tank is fabricated and manufactured by Fuel Storage Limited and is to be only installed and commissioned by the manufacturer or an authorised agent. The tank is to be maintained and fully serviced as per agreement upon purchase. Only a manufacturers service technician is to conduct any work on the tank otherwise the warranty is void.

#### Warranty does not apply to the following:

- Any item sold by the Manufacturer that is to be used in areas exposed to corrosive or aggressive conditions e.g., salt water, cement dust, ash, animal waste or other corrosive agents.
- Damage resulting from misuse, negligence, or accident.
- Failure or damage to the tank due to an earthquake or geological event.
- Items that have been altered or tampered with by a non-authorised Manufacturer agent.
- Used filters and consumables.

### **3.0 SEPARATION DISTANCES**

## Minimum separation distances for stationary tanks (not located at hazardous substance location) from Protected and Public Places

Capacity (Litres)	Protected place (Metres)		Public place (Metres)
3.1A, 3.1B, 3.1C	3.1A, 3.1B, 3.1C	3.1D	3.1A, 3.1B, 3.1C
Up to 600	2.0	0.0	0.0
1,000	2.0	1.5	0.0
2,500	3.0	2.0	0.0
5,000	4.0	3.0	2.0
10,000		3.25	
20,000		3.75	
25,000	5.0	4.0	3.0
50,000	6.0	5.0	4.0
100,000	7.0	6.0	4.0

Table 1: Health and Safety at Work (Hazardous Substances) Regulations 2017, Schedule 12, Table 5

### 4.0 SERVICING

With four depots nationwide we have you covered from top to bottom. We have service depots based in Auckland, Te Awamutu, Feilding and Christchurch.

#### Servicing includes, but not limited:

- 24-hour breakdown
- Scheduled servicing and maintenance
- Compliance and asset auditing
- Installations and relocations of tanks
- Refurbishments



#### Our scheduled asset audit includes a full report that covers the following:

- Tank compliance
- Tank location compliance (where applicable)
- Asset quality check
- Photos of asset
- Water paste dip
- Pumping system service
- Filter change
- Calibration check
- Hose and pipe work inspection
- Oil change (petrol motor)
- Air filter clean (petrol motor)
- Detailed list of pumping system components
- Photos of pumping system
- Full report with remedials if applicable

### **5.0 OPERATION OF ELECTRIC FUEL TANK**

Set out below are basic operational steps to keep yourself and your workers safe, and to minimise any environmental damage from occurring.

- Ensure operator is aware of location of Emergency Button prior to operating.
- Key in security pin (if required).
- Lift nozzle and place in vehicle to commence filling.
- Stay with vehicle whilst refuelling, **do not** turn nozzle on and walk away.
- Once vehicle is full, place nozzle back in holster on tank.
- Pump will automatically turn off once nozzle is placed back in holster.



## To prevent unnecessary damage to your fuel pump on your tank, easy to follow operational steps are set out below.

- Turn fuel on, on pump.
- Ensure the ball valve is on i.e., the handle is in the vertical position.
- Ensure the pump head is full of diesel by removing the plastic cap on top of the head and fill, if need be, re-secure after filling.
- Unravel the hose and nozzle from the cabinet.
- Turn on the motor switch, located at the rear of the pull start assembly.
- Set the choke and throttle and start the engine.
- If your fuel tank is a container tank, leave the doors of the container/cabinet open during filling for ventilation.
- Proceed to fill the vehicle, the pump will pull the fuel through. If necessary,
  crack open the plastic filler cap on pump head to prime pump.
- Stay with vehicle whilst refuelling, do not turn nozzle on and walk away.
- When filling is completed, switch off the pump and shut off ball valve by placing handle back into horizontal position.
- Ensure hose is rolled up and nozzle is placed back in cabinet.
- Turn fuel off on pump.



- Ensure switch on fuel pump is in the on position.
- Ensure the ball valve is on i.e. The handle is in the vertical position.
- Ensure the fuel tank has an adequate amount of fuel in the tank.
  (About 300mm of fluid depth)
- Enter pin number if tank has a management system of lift nozzle if not.
  Pump will start.
- Put nozzle into container or vehicle, pump should self-prime in 10 to 30 seconds.
- If not, crack the 5mm bleed screw on the head of the pump and unwind a few turns. Note: Do not take the bleed screw all the way out.
- If the model of your pump does not have a bleed screw on the pump you can crack the filter and unwind one turn until fuel starts to flow, or new model of tanks will have a bleed valve on the filter housing. Simply press the valve in until fuel starts to flow.
- Once fuel is flowing, tighten bleed screw or filter, hang nozzle back in holder and wipe up any diesel that may have spilt.

Follow the below steps to conduct dipping of your fuel tank safely and accurately.

- If dip stick cannot be reached from ground level, climb up ladder attached to your tank to top of platform to reach dipping point, ensuring three points of contact are made on ladder.
- Unlock dipping cap and unscrew.
- Pull dipper upwards, wipe with rag to get reading off stick.
- Readings on dipping stick are at 250 litre intervals.
- Maximum safe fill level is marked at top of dipping stick.
- Once dipping has been conducted, screw cap back on and lock.
- Climb back down ladder keeping three points of contact.

#### **9.0 GENERAL MAINTENANCE**

To help keep your tank shell and working mechanisms under warranty and in good working order, ensure your tank is kept free of oxidising materials and the shell is cleaned at regular intervals by using non-abrasive materials. Make sure your fuel tank is serviced when it becomes due to ensure the appropriate parts and consumables are changed to keep it running smoothly.



## "FUEL STORAGE MADE EASY"

## HAS ALWAYS BEEN OUR MOTTO AND AT THE HEART OF EVERYTHING WE DO FOR OUR CLIENTS.



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