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Thank you for your purchase of a TTi Cartage Tank.

Please read all instructions and precautions in this handbook carefully. Keep your handbook in a safe place.

All TTi Cartage Tanks are rotationally moulded from virgin, UV stabilised polyethylene and have been purpose designed & manufactured to high standards. When properly mounted and secured, provided all precautions and instructions are followed they will provide many years of useful service.

On tanks in excess of 2000 Litres, it is recommended that BAFFLE BALLS be used to regulate or dampen the effects of surge; and it is essential that BAFFLE BALLS are an integral part of the safety system in tanks of 10,000 Litre capacity and above.

All hoses and pipes attached to the tank must be Flexible NOT RIGID in order to prevent damage due to vibration from pumps & motors etc.

Tank base must be supported & secured as specified on following pages.

For tanks with a 3” (75mm) or larger outlet the following must be observed.

When evacuating large quantities of water from the tank, additional venting is to be provided to prevent issues arising from internal negative pressures. This can be achieved by loosening or opening tank lid or other means.

Failure to observe the above precautions could void your warranty. If any instructions are unclear to you call Customer Service on 1800 816 277 for assistance.
Your Safety

1. When **mounting to any vehicle** ensure that you have read the Vehicle Owner’s Manual and that you comply with all the weight restrictions as specified by the vehicle manufacturer, as overloading can cause injury or death.

2. To **ensure your own safety** and that of your employees if applicable you must comply with all relevant environmental, workplace health and safety legislation and codes of practice.

3. **Ensure tank is firmly secured** as per drawings attached. Where applicable tank mounting may need to be designed/approved by an engineer to drawings.

4. **Care should be taken at all times**, particularly when operating on rough or steep terrain. Drivers should be aware of water surge at all times.

5. **OH & S requirements** for working at heights must be complied with as applicable.

6. **Personal Protection Equipment** must still be worn if required.

7. **Improper or careless use of this tank can cause serious injury**. Minors should never be allowed to use this tank.

8. **The tank is confined space**. Ensure compliance with OH & S requirements if entering tank.

9. You **must be in good mental health to use this tank** and not be under the influence of alcohol or any drugs that could impair your vision, physical strength, dexterity, judgment, or other mental capacity.
# Risk Assessment

## Product Information Risk Assessment Sheet

### TTi - AquaMove Tanks

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| **Ensure tank is mounted correctly on vehicle** and do not overload vehicle. Partially fill the tank with water & test the tank or pumping system, if necessary, before use | Load not secured; overloaded vehicle; manual handling; slips, trips or falls; fingers jammed; overhead powerlines - electricity; leaks; tank in a confined space | Med | - Read/follow decals on the tank  
- Follow safe manual handling techniques:  
  - don’t lift on your own  
  - if >20kg, bend knees & keep back straight;  
  - Keep fingers clear  
  - Keep tank at least 8m away from overhead powerlines  
  - Keep water away from electrical sources  
  - Make sure tank mounted securely to comply with relevant codes of practice and transport authority requirements:  
  - Don’t exceed vehicle load limit; follow state legislation & AS 2865: 2001 confined space  
  - Chassis mount frame to be designed by licensed Truck Body Engineer if used on public roads  
  - Don’t exceed vehicle load limit; follow state legislation & AS 2865: 2001 confined space  
  - Chassis mount frame to be designed by licensed Truck Body Engineer if used on public roads  
  - Don’t exceed vehicle load limit; follow state legislation & AS 2865: 2001 confined space  
  - Chassis mount frame to be designed by licensed Truck Body Engineer if used on public roads |
| **Check weather and ground conditions for stability** | Manual handling; ground instability | Low | - Follow safe manual handling techniques as above  
- Drive cautiously to suit ground and weather conditions. |
| **Fill tank with water / other liquids using a pump, hydrant, hose or similar apparatus** | Manual handling; slips, trips or falls; ground instability; weather conditions; falling from height; use of chemicals | Med | - As above 1 & 2  
- Ensure fall prevention strategy exists if on the tank;  
- Whilst on the back of a vehicle filling the tank - work platform or hand rails in place &/or the person filling the tank is secured with a safety line or harness fall arrest system in place. Follow MSDS |
| **Check that transport vehicle is safe before use, i.e. where applicable: wheel nuts, tyre pressure and condition, bearings, tow hitch, have been serviced, etc. Driving and using the water tank from a vehicle - take into account the sway of water in the tank when driving. (It is recommended that free standing water tanks are utilised “off road”** | As above; loss of load; work in heat & cold; noise; exceed load limit of vehicle; strap breakage; hose entanglement; exhaust fumes; terrain & slopes | High | - As above 1 & 2  
- Wear clothes to suit heat & cold  
- Wear hearing protection if pump noise > 85 dBA  
- Follow manufacturer’s safe operation instructions for the vehicle & the pump/spray unit  
- Don’t overload water weights 1kg per 1 litre  
- Secure load to vehicle  
- Keep hose attachments tidy  
- TTi recommends the use of their Ball Baffle Safety System to control liquid surge |
| **Clean up, maintenance & storage** | As above 1-4 where applicable | Low | - As above  
- store tank in a dry, well ventilated area |
Warning Notices

Copy of stickers attached to tank are shown below.

Please ensure that these instructions are followed.

On the following page is a recommended frame design for mounting our tanks.

Warranty is conditional on tank being correctly mounted.

Liquid Surge

TTi strongly recommend the use of the Ball Baffle Safety System to control liquid surge when in transit. Call 1800 816 277 for details.
**Free Standing Tanks**

- Bottom of tank must be supported over full length of tank.
- Every leg must be fully supported.
- Provide support for edges of baffle box.
- M10 high tensile hold down bolts (pins must be bolted down).
- Connection to tank must be made with a flexible hose.
- Lateral stops on all legs.
- Hold down pins.

**Enlarged Typical Detail**
DIAGRAM

TYPICAL TANK
HOLD DOWN DETAILS

ELEVATION

PLAN VIEW
scale: 1:5

TANK FOOT

ORIGINAL HOLD DOWN BOLT
M10x65 WITH NYLOC NUT

PIPE SPACER

100

75

8 HOLD DOWN BOLTS
\( \phi 16 \) (5/8"") GRADE 5 OR BETTER

END BRACKETS
100x100x6 ANGLE
OR 100x75x6 ANGLE

CENTRE BRACKETS
75x50x6 ANGLE
Warranty Policy

Tanks manufactured by TTI now carry a 20 year warranty (15 years on Aquamove tanks) and covers Manufacture of tank; Quality of raw materials and integrity of skid- if purchased from TTI.

Warranty is offered to the original purchaser provided that the following conditions have been adhered to:

» Complete Warranty Registration online or complete Form and return to TTI, PO BOX 137, NATHALIA VIC 3638
» Purchase or manufacture frame mounting system according to TTI’s design plan
» Mount and secure tank in compliance with specifications supplied by TTI
» Ensure any fittings from tank to motor or outlets are flexible and NOT rigid.

TO AVOID DOUBT – Warranty does not cover the following:

» Tank mishandling, misuse, or faults caused by failure to follow mounting advice or routine maintenance.
» Unauthorised alterations or changes to tanks (including welding, cutting, or mounting)
» Damage from use of rigid/ fixed outlets to pumps or other fittings
» Damage from wear or tear
» Incorrect placing and securing of pumps or tanks
» Freight cost or other costs incurred relating to repairs associated with any of the above
» Cost associated with dismantling, installation or re-installation of the tank or frame
» Lids and plastic fittings.
Warranty

HOW TO OBTAIN SERVICE UNDER THIS WARRANTY:

» Warranty service can be arranged by contacting your dealer or by contacting Trans Tank International, Call 03 5866 3266 or P O Box 137, Nathalia VIC, 3638. Proof of warranty registration and date of purchase may be required to verify warranty coverage.

» Any defective parts returned to us must be accompanied by an R M A (Return Materials Authorisation.) This form can be obtained by contacting Product support on 1800 816 277 or email ProductSupport@tti.com.au
Warranty Limitations

This tank is guaranteed for five years against material or manufacturing defects subject to the following conditions:

» There is no other express warranty. any warranty that may be implied from this purchase including merchantability and fitness for a particular purpose is hereby limited to the duration of this warranty and to the extent permitted by law. any and all implied warranties are excluded.

» TTi will not be liable for any incidental, consequential, or special damages and/or expenses in connection with the purchase or use of this equipment to the extent permitted by law.
Warranty Registration Card

To validate your warranty, please complete registration online at:

Alternatively if you are unable to register on-line fill in all the details below, copy and email to warranty@tti.com.au or post to the address on the back cover.

I have read and understood the instructions in this booklet.

Date Purchased: __________________________
Model: __________________________________
Serial Number: ____________________________
   (located on side of tank)
Purchaser’s Name: ______________________________________________________
Purchaser’s Address: _____________________________________________________
   ____________________________________________________________
   Post code: ________________________________________________________
Phone #: ____________________________ Mobile #: ____________________________
Email Address: _________________________________________________________
Purchaser’s Signature: ____________________________
Whilst every care has been taken in the preparation of these instructions, no liabilities can be accepted with regard to errors or omissions. Product specifications are subject to change in line with our commitment to continuous improvement.