



**Transtank<sup>®</sup>**  
INTERNATIONAL

Operator's Product HandBook

# Versatile Boom<sup>™</sup>



“HELPING TO DEVELOP AND PROTECT THE LAND”

# Contents

Safety	4
General Safety Instruction	5
General Information	6
Description	6
Machine Limitations	7
Versatile Boom Operating Instructions	7
Before First Use	7
Installation	8
VersatileBoom Set up	9
VersatileBoom Calibration	10
VersatileBoom Operation	14
Clean-Up and Decontamination	15
Maintenance	16
Periodic Checks	16
Maintenance Schedule	16
Risk Assessment	18
Warranty	19
Warranty Policy	19
What this Warranty Does Not Cover	19
How to Obtain Service Under this Warranty	19
Warranty Limitations	19

## Disclaimer

All information, illustrations, and specifications contained in this manual are based on the latest product information available at the time of this publication's printing. TransTank International (TTi) reserves the right to alter and substitute specifications and methods at any time, in line with our commitment to continuous improvement.

No patent liability is assumed with respect to the use of information contained within this manual. While every precaution has been taken in the preparation of this manual, TTi assumes no responsibility for errors or omissions.

**Thank you for your purchase of a TTi VersatileBoom, which will provide many years of reliable service when operated and maintained in accordance with this manual.**

The VersatileBoom is designed for mounting on to a vehicle such as a Utility Terrain Vehicle (UTV) or a trailer-mounted spray unit. The VersatileBoom can be used for everything from herbicide or pesticide spraying through to firefighting purposes.

The VersatileBoom unit is supplied complete, tested and ready to mount to your vehicle. TTi warrants that the VersatileBoom has been designed and built for its intended purpose as a water or pesticide/herbicide spray boom.

The owner is responsible to ensure that the equipment is operated in accordance with this manual, and with Australian WorkSafe requirements. TTi is not liable for any loss, injury or death resulting from the failure to observe all safe working regulations as required by law.

Included with your VersatileBoom is this Operator's Handbook, which includes the Warranty Registration Card, and the package of mounting hardware, nozzles and fittings for installation by the operator.

## Safety

This manual is intended for use by personnel experienced in the use of this and similar equipment. Read and understand this manual before attempting to operate or perform routine maintenance on this equipment. Your safety is of prime priority.



**A WARNING highlights an essential operating or maintenance procedure, practice, condition or statement, which, if not strictly observed, could result in injury or death of personnel, or long-term health hazards.**



**A CAUTION highlights an essential operating or maintenance procedure, practice, condition or statement, which, if not observed, could result in damage or destruction of equipment.**



**A NOTE highlights or clarifies an essential systems description, operating or maintenance procedure, condition or statement.**

## General Safety Instructions

1. This unit is designed and manufactured solely for the purpose of spraying herbicides and pesticides, or water for firefighting. Under no circumstances should it be used for any other purpose. It must never be used in conjunction with fuel or similar materials.
2. Only authorised and trained personnel are to operate this equipment. Operators must have read and fully understood this manual before operating the VersatileBoom.
3. Do not operate the VersatileBoom anywhere near bystanders, livestock, watercourses or any non-targeted vegetation that may be in danger from spray drift contamination.
4. Wind direction and speed must be taken into account, as windy conditions may endanger the operator or damage to adjacent non-target vegetation. Avoid spraying on hot and sunny days or when wind speed exceeds 6.5km/h.
5. Do not operate this equipment while under the influence of alcohol or any drugs that could impair your capabilities in any way.
6. Personal Protection Equipment (PPE) appropriate to the chemicals being used must be worn at all times when operating the VersatileBoom. As a minimum, the PPE should include coveralls, gloves and boots. A face shield and PVC apron are recommended depending on the task. It is recommended that the following documents should be read and understood by the operator:
  - Australian Standard for Chemical protective clothing AS3765
  - Australian Standard for Respiratory protection devices AS1715
7. Ensure the capacity of the vehicle is suitable for the loaded mass of the spray unit and VersatileBoom. Refer to the vehicle's operator manual for safe working loads, correct securing points and relevant safety instructions. Do not exceed the carrying and braking capacity as specified by the vehicle manufacturer.
8. The VersatileBoom must be securely mounted on the vehicle. Ensure all fasteners are tightened and secure before operation.
9. Do not disconnect any hoses, nozzles or filters while the equipment is operating. Disconnecting any components while under pressure may result in uncontrolled fluid discharge which may be hazardous.
10. At completion of the operation, switch the pump off and relieve any residual pressure by opening a spray boom valve or other device, such as a spray gun trigger.
11. At completion of the operation, decontaminate the VersatileBoom and spray system. Drain any residue chemicals and store in a sealed container. Flush the system with fresh water and dispose of any unwanted chemicals and tank rinse residue in accordance with current environmental and workplace health and safety regulations.
12. Any unauthorised modifications to this equipment may affect its function and create a serious safety risk. Any unauthorised modifications will void any warranty on the unit.

## General Information

### Description

The TTi VersatileBoom is designed to distribute herbicides, pesticides or water feed by a separately supplied fluid dispensing system. A typical example of a VersatileBoom fitment is shown at Figure 1, with the unit mounted on the rear of a Utility Terrain Vehicle (UTV) and fed by a TTi OnDeck spray unit.



**Figure 1 – VersatileBoom mounted on UTV**

Mounting the VersatileBoom to the vehicle or trailer can be achieved by bolting directly to the vehicle's frame with the supplied bolts (refer to Figure 2), or using the optional Hayman Reece Hitch-it attachment, refer to Figure 3. The optimum height is to have the spray nozzles 500mm above ground level.



**Figure 2 – VersatileBoom – Direct Bolted Mounting**



**Figure 3 – VersatileBoom – Hyman Reece Hitch-it Mounting**

The VersatileBoom has three adjustable centre nozzles and two off-centre end jets to provide a range of spray volumes and patterns, which can achieve up to a 4m width swath.

### **Machine Limitations**

The VersatileBoom (and associated spray system) is subject to operating limitations. It is the operator's responsibility to ensure that this equipment is being operated safely and within these limitations.

## **VersatileBoom Operating Instructions**

### **Before first use**

Your VersatileBoom is delivered partially assembled and ready to be fitted onto the vehicle. Before use, it needs to be set up using the following instructions:

1. Complete the warranty registration online at [www.tti.com.au/warranty-registration](http://www.tti.com.au/warranty-registration), or use the Warranty Registration Card at the back of this handbook.
2. Store this handbook in a safe and easily accessible place for future reference.



**WARNING: The operator must fully understand all aspects of this handbook. Do not operate the VersatileBoom and associated spray system if you are unfamiliar with its operation until you have read this handbook.**

3. Read and thoroughly understand this handbook, paying particular attention to all safety requirements, before using the VersatileBoom for the first time.
4. Check that all fittings, valves and hoses are secure following transit, and are not damaged in any way.

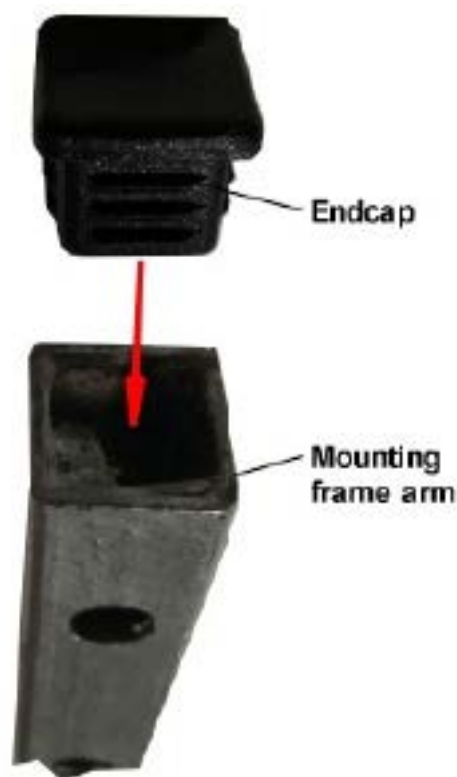
## Installation

The VersatileBoom is fitted to its mounting vehicle and set up as follows:



**CAUTION: The VersatileBoom must be securely mounted to the vehicle. Failure to do so may result in the unit falling off the moving vehicle. Warranty is conditional on the VersatileBoom being correctly mounted.**

1. Open the package of mounting hardware, nozzles and fittings and separate all components so they can be easily selected when required in the following steps.
2. Mount the VersatileBoom onto the vehicle securely, depending on configuration, refer to Figure 2 and Figure 3. The optimum height is to have the spray nozzles 500mm above ground level. Ensure the securing bolts (supplied in the package) are tightened sufficiently.
3. Insert the two supplied endcaps into the top of the VersatileBoom's two mounting frame arms, refer to Figure 4.



**Figure 4 – VersatileBoom mounting frame endcaps**

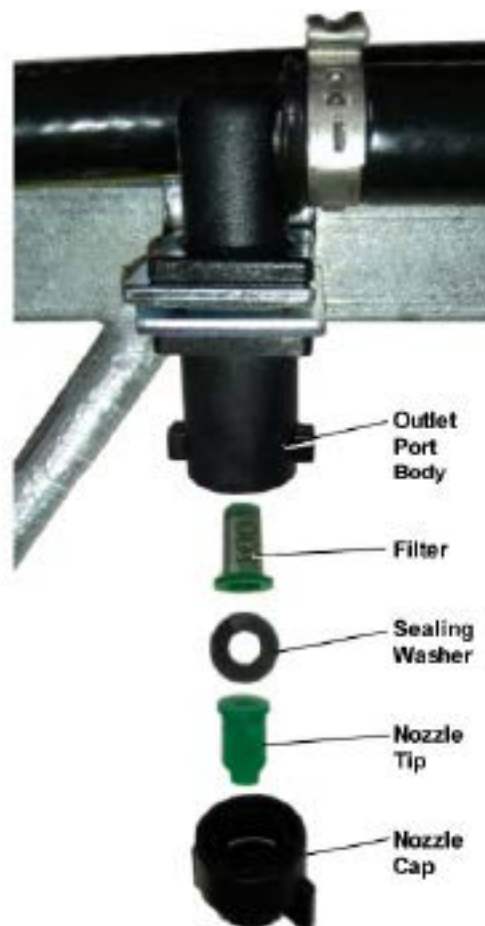


## VersatileBoom Set up



**NOTE: Ensure the pump system is switched off and depressurised when connecting the supply hose.**

1. Connect the supply hose to the discharge port of the spray pump or delivery hose. Ensure the spray system's pump is switched off or isolated when connecting the VersatileBoom's supply hose.
2. For one of the outlet ports of the three adjustable nozzles, insert the filter into the port body as shown in Figure 5.



**Figure 5 – Adjustable spray nozzle installation**

3. Insert the nozzle tip into the nozzle cap, then press in the sealing washer.
4. Push the nozzle cap assembly onto the outlet port body and rotate 90 degrees to lock it into place.
5. Repeat steps 2 to 4 for the remaining two adjustable nozzles.
6. For one of the off-centre end jets, insert the brass nozzle tip into the steel nozzle cap, then press in the sealing washer, refer to Figure 6.



**Figure 6 – Off-centre end jet nozzle installation**



**NOTE: Ensure the brass nozzle tip is orientated such that the arrow shape is pointing inwards.**

7. Screw the nozzle cap assembly onto the off-centre end jet port body. The nozzle tip must be orientated such that the open end of the triangle shape orifice is facing outwards, that is, the arrow shape is pointing inwards.
8. Tighten the nozzle cap firmly.
9. Repeat steps 6 to 8 for the second end jet nozzle.
10. At first use, fill the spray unit with water for calibration of the VersatileBoom, refer to the calibration procedure below.

## VersatileBoom Calibration

Accurate calibration is an essential element of any spraying function as it ensures that the chemical is applied at the rate specified on the product label. Application in excess of the recommended rate may be dangerous, can damage crops and is uneconomical.

Calibration must be carried out:

- When spraying for the first time with new spray equipment
- At the beginning of each season
- After changes of nozzle tips, spraying pressure or vehicle speed
- After every 100 hectares of spraying

PPE appropriate to the chemicals being used must be worn at all times when calibrating the OnDeck. As a minimum, the PPE should include coveralls, gloves and boots. A face shield and PVC apron are recommended.

## Calibration Procedure

Check the label on the chemical container for the application rate and recommended spray nozzle type, refer to Figure 7, which shows the TeeJet AIXR nozzle application chart. To apply a specific rate of chemical to the target surface, work out the:

- total sprayer output,
- travel speed, and
- the swath width.

Using these parameters, the application rate is calculate as follows.

### Measure Total sprayer output [L/min]

Set the pressure at the correct level for spraying determined by the type of nozzles. All nozzles used for spraying should be left on. For initial trials, set the pressure regulator at approximately 2 bar and adjust as needed.

1. Fill the spray supply tank with clean water and run the sprayer at the correct pressure with all nozzles operating.
2. Place a measuring jug under first nozzle for one minute, then measure how much water is in the jug.
3. Repeat for all nozzles. Nozzle output should not vary by more than 10%. If it does, the nozzle could be worn or damaged and should be replaced.
4. Add all the jug measurements to find the total sprayer output in litres per minute.

### Measure the travel speed [km/h]

The normal speed for spraying with small boom sprayers is 4–10 km/h. The slower the travel, the higher the application rate. Adjust travel speed to suit ground conditions.

1. Measure how many seconds it takes to travel 100 metres with the sprayer attached and half full.
2. Calculate your travel speed by inserting the time in seconds into the following formula: Travel speed (km/h) = distance travelled in metres (say 100m) x3.6 / Time taken (in seconds)

### Calculate spray application rate [L/Ha]











First, measure the swath width in metres. For general broadcast spraying, the swath width is equal to the number of nozzles multiplied by the nozzle spacing. For band spraying the swath width is equal to the total of all the band widths. Calculate the application rate using the following formula:

$$\text{Application rate (L/ha)} = (600 \times \text{total sprayer output (L/min)}) / (\text{swath width (m)} \times \text{travel speed (km/h)})$$

Example: If total sprayer output is 5 L/min, speed is 8 km/h, and swath width is 6m, Application rate =  $(600 \times 5 = 62.5 \text{ L/ha}) / (6 \times 8)$

If the application rate is less than specified, increase the pressure and repeat calibration to achieve the correct rate. Once the required rate is achieved, note the following parameters for future reference when using this chemical:

- Nozzle Fitted
- Type (Drop Size)
- Application Rate
- Spray Pressure
- Forward Speed

Nozzle Icon	Pressure (bar)	Drop Size	Lerap Ratings	Capacity One Nozzle in L/min	l/ha 								Cap Part Number					
					5 km/h	6 km/h	7 km/h	8 km/h	10 km/h	12 km/h	16 km/h	18 km/h		20 km/h				
	1.0	XC	--	0.34	81.6	88.0	94.3	100.7	107.0	113.4	119.7	126.0	132.3	138.6	144.9	11441A-C2LR		
	2.0	C	--	0.48	115	124	133	142	151	160	169	178	187	196	204			
	3.0	C	--	0.59	142	152	161	171	180	190	199	209	218	228	237			
	4.0	M	--	0.68	163	174	185	196	207	218	229	240	251	262	273			
	5.0	M	--	0.76	182	194	206	218	230	242	254	266	278	290	302			
	6.0	M	--	0.83	199	212	225	238	251	264	277	290	303	316	329			
	1.0	XC	--	0.46	110	118	126	134	142	150	158	166	174	182	190		11441A-C2LR	
	2.0	VC	--	0.65	156	167	178	189	200	211	222	233	244	255	266			
	3.0	C	--	0.79	180	192	204	216	228	240	252	264	276	288	300			
	4.0	M	--	0.91	218	231	244	257	270	283	296	309	322	335	348			
	5.0	M	--	1.02	245	259	273	287	301	315	329	343	357	371	385			
	6.0	M	--	1.12	269	284	299	314	329	344	359	374	389	404	419			
	1.0	XC	**	0.57	137	146	155	164	173	182	191	200	209	218	227			11441A-C2LR
	2.0	VC	**	0.81	194	205	216	227	238	249	260	271	282	293	304			
	3.0	VC	**	0.99	238	250	262	274	286	298	310	322	334	346	358			
	4.0	C	**	1.14	274	287	300	313	326	339	352	365	378	391	404			
	5.0	C	**	1.28	307	321	335	349	363	377	391	405	419	433	447			
	6.0	M	--	1.40	336	351	366	381	396	411	426	441	456	471	486			
	1.0	XC	**	0.68	163	173	183	193	203	213	223	233	243	253	263	11441A-C2LR		
	2.0	VC	**	0.96	230	242	254	266	278	290	302	314	326	338	350			
	3.0	VC	**	1.18	283	296	309	322	335	348	361	374	387	400	413			
	4.0	C	**	1.36	326	340	354	368	382	396	410	424	438	452	466			
	5.0	C	**	1.52	365	380	395	410	425	440	455	470	485	500	515			
	6.0	M	--	1.67	401	417	433	449	465	481	497	513	529	545	561			
	1.0	UC	***	0.91	218	230	242	254	266	278	290	302	314	326	338		11441A-C2LR	
	2.0	XC	**	1.29	310	323	336	349	362	375	388	401	414	427	440			
	3.0	VC	**	1.58	379	393	407	421	435	449	463	477	491	505	519			
	4.0	VC	**	1.82	437	452	467	482	497	512	527	542	557	572	587			
	5.0	C	**	2.04	490	506	522	538	554	570	586	602	618	634	650			
	6.0	C	--	2.23	535	552	569	586	603	620	637	654	671	688	705			
	1.0	UC	***	1.14	274	288	302	316	330	344	358	372	386	400	414			11441A-C2LR
	2.0	XC	***	1.61	386	401	416	431	446	461	476	491	506	521	536			
	3.0	VC	**	1.97	473	489	505	521	537	553	569	585	601	617	633			
	4.0	VC	**	2.27	545	562	579	596	613	630	647	664	681	698	715			
	5.0	C	**	2.54	610	628	646	664	682	700	718	736	754	772	790			
	6.0	C	--	2.79	670	689	708	727	746	765	784	803	822	841	860			
	1.0	UC	***	1.37	329	344	359	374	389	404	419	434	449	464	479	11441A-C2LR		
	2.0	XC	***	1.94	466	482	498	514	530	546	562	578	594	610	626			
	3.0	VC	***	2.37	569	586	603	620	637	654	671	688	705	722	739			
	4.0	VC	**	2.74	658	676	694	712	730	748	766	784	802	820	838			
	5.0	C	**	3.06	734	753	772	791	810	829	848	867	886	905	924			
	6.0	C	--	3.35	804	824	844	864	884	904	924	944	964	984	1004			
	1.0	UC	--	1.82	437	452	467	482	497	512	527	542	557	572	587		11441A-C2LR	
	2.0	XC	--	2.58	619	635	651	667	683	699	715	731	747	763	779			
	3.0	VC	--	3.16	758	775	792	809	826	843	860	877	894	911	928			
	4.0	VC	--	3.65	876	894	912	930	948	966	984	1002	1020	1038	1056			
	5.0	VC	--	4.08	979	1000	1021	1042	1063	1084	1105	1126	1147	1168	1189			
	6.0	C	--	4.47	1073	1095	1117	1139	1161	1183	1205	1227	1249	1271	1293			
	1.0	UC	--	2.28	547	564	581	598	615	632	649	666	683	700	717			11441A-C2LR
	2.0	UC	--	3.23	775	793	811	829	847	865	883	901	919	937	955			
	3.0	XC	--	3.85	948	967	986	1005	1024	1043	1062	1081	1100	1119	1138			
	4.0	VC	--	4.56	1094	1114	1134	1154	1174	1194	1214	1234	1254	1274	1294			
	5.0	VC	--	5.10	1224	1245	1266	1287	1308	1329	1350	1371	1392	1413	1434			
	6.0	VC	--	5.59	1342	1364	1386	1408	1430	1452	1474	1496	1518	1540	1562			

NOTE: Always double check your application rates. Tabulations are based on spraying water at 21°C.

### DROPLET SIZE CATEGORIES

							
<b>XF</b>	<b>VF</b>	<b>F</b>	<b>M</b>	<b>C</b>	<b>VC</b>	<b>XC</b>	<b>UC</b>
EXTREMELY FINE	VERY FINE	FINE	MEDIUM	COARSE	VERY COARSE	EXTREMELY COARSE	ULTRA COARSE

Droplet size may vary with nozzle capacity, spray angle and spray pressure.

**Figure 7 - AIXR Application Chart**

## VersatileBoom Operation



**NOTE:** Before commencing spraying, plan the work effectively to minimise potential contamination of adjacent areas.

Operation of the VersatileBoom is conducted as follows:



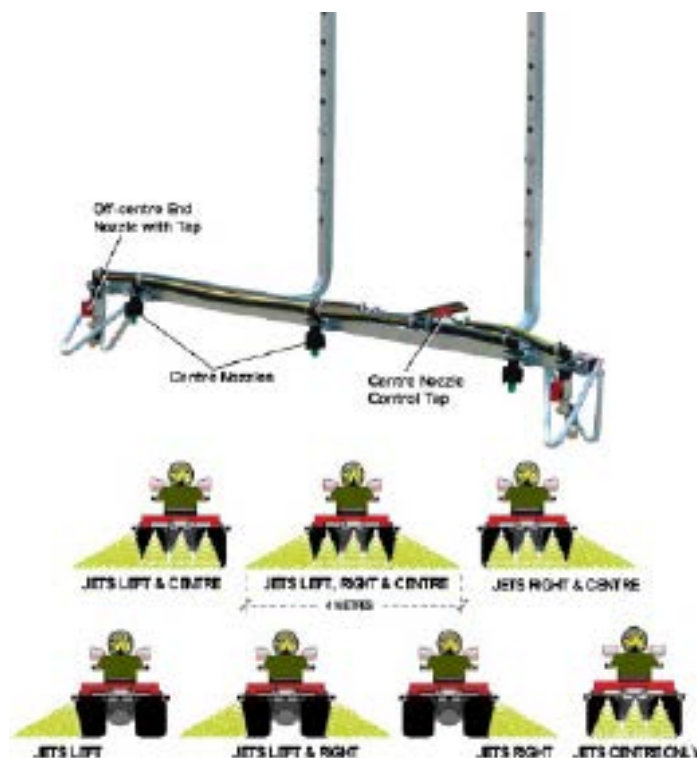
**CAUTION:** Do not spray in windy conditions, where spray drift contamination may occur. Spray drift can be reduced by lower nozzle height, lower pressures or by fitting larger nozzles.

1. Wind direction and speed must be taken into account, as windy conditions may endanger the operator or damage to adjacent non-target vegetation. Avoid spraying on hot and sunny days or when wind speed exceeds 6.5km/h.



**NOTE:** Standard mounting height for the spray nozzles is 500mm above ground surface.

2. Wind drift can be reduced by lowering the VersatileBoom such that the nozzles are closer to the ground, using lower pressure or by fitting larger nozzles.
3. Check the calibration of the VersatileBoom spray nozzles for correct delivery of product; the calibration procedure is described above.
4. Set the required spray selection by opening or closing the individual control valves on the spray lines, refer to Figure 8.



**Figure 8 – VersatileBoom Spray Configurations**

5. Position the vehicle at the starting point of the operations area.
6. Start the pump system and commence driving the vehicle at the speed determined during calibration to achieve the required spray outcome.

## Clean-up and Decontamination

After use, the spray equipment must be thoroughly decontaminated inside and outside – including the pump, hoses and VersatileBoom – to avoid damage to crops from any harmful spray residues. Decontamination also prevents spray system corrosion and abrasion.

Cleaning the system should be undertaken at a carefully chosen site, away from any risk of spillages draining into watercourses or into environmentally sensitive areas.

The recommended decontamination procedure is as follows:



**WARNING: Suitable PPE must be worn by the operator when cleaning and decontaminating the VersatileBoom. Follow the instructions provided with the chemicals or the applicable Safety Data Sheet.**



**WARNING: Ensure the cleaning area is in an open, well ventilated space, and any flushing water is captured to prevent runoff into watercourses or into environmentally sensitive areas.**

1. After spraying operations are complete, drain any residual fluid from the tank. Capture and dispose or store any fluid in accordance with environmental and work safety requirements.
2. Rinse out the tank with several changes of water, plus a recommended cleaning fluid.
3. Operate the spray unit with clean water using the spray boom, to ensure no chemical residue remains.
4. Nozzles, nozzle filters, nozzle caps and sealing washers should be cleaned by soaking in water, brushing with a nozzle brush and allowed to dry. Do not blow through the nozzles or use wire or pins to clear any blockages.

If the VersatileBoom is to be stored for an extended period, thoroughly clean and decontaminate it as described above. Ensure it is allowed to dry, all lines empty and not pressurised then store it in a well ventilated area.

# Maintenance

Your VersatileBoom requires minimal maintenance but regular cleaning and checks will ensure safe and reliable service over its lifetime. Periodic checks and inspections will identify any potential issues, enabling timely rectification and minimising downtime.

## Periodic Checks

The following tasks are to be conducted in accordance with each of the schedules. All scheduled tasks are to be undertaken concurrently. For example, at the three month maintenance interval, all tasks listed are to be undertaken, in addition to the daily, weekly and monthly tasks.

1. Clean the unit and inspect it for any signs of damage or wear.
2. Check all fittings are firmly secured, tighten if necessary.
3. If the VersatileBoom is to be stored for an extended period, thoroughly clean and decontaminate the unit as described above. Ensure it is allowed to dry and all lines empty and not pressurised then store it in a well ventilated area.

## Maintenance Schedule

The following tasks are to be conducted in accordance with each of the schedules. All scheduled tasks are to be undertaken concurrently. For example, at the three month maintenance interval, all tasks listed are to be undertaken, in addition to the daily, weekly and monthly tasks.



**NOTE! Maintenance is important. Keep a record of all maintenance tasks conducted on the VersatileBoom.**

TTi recommends photocopying these schedules in order to keep a detailed log of all maintenance tasks. A copy of these schedules will be required to support any warranty claim.

## Daily tasks

The following tasks are to be undertaken daily, or prior to each use, of the VersatileBoom.

No.	Task	Notes
1	Inspect the VersatileBoom for any signs of damage or wear	Clean, repair or replace
2	Check security of spray nozzles and hoses	Tighten as required



### Weekly Tasks

The following tasks are to be undertaken each week or 10 operating hours, whichever occurs first.

No.	Task	Date	Signed
1	All Daily tasks		
2	Check for any signs of leaks in hoses and fittings		
3	Clean mesh filters and nozzle tips		

### Monthly tasks

The following tasks are to be undertaken each month or 20 operating hours, whichever occurs first.

No.	Task	Date	Signed
1	All Daily and Weekly tasks		
2	Check securing system used to fastener unit to vehicle		

### Three Monthly tasks

The following tasks are to be undertaken every three months or 50 operating hours, whichever occurs first.

No.	Task	Date	Signed
1	All Daily, Weekly and Monthly tasks		

### Six Monthly tasks

The following tasks are to be undertaken every six months or 100 operating hours, whichever occurs first.

No.	Task	Date	Signed
1	All Daily, Weekly, Monthly and 3-Monthly tasks		

### Twelve Monthly tasks

The following tasks are to be undertaken every twelve months or 200 operating hours, whichever occurs first.

No.	Task	Date	Signed
1	All Daily, Weekly, Monthly, 3-Monthly & 6-Monthly tasks		

### Twelve Monthly tasks

The following tasks are to be undertaken every 24 months or 500 operating hours, whichever occurs first.

No.	Task	Date	Signed
1	All Daily, Weekly, Monthly, 3-Monthly, 6-Monthly and 12-Monthly tasks		

# Risk Assessment

Task	Hazard	Risk	Control Measure/Mitigation
Check weather conditions	Manual handling; slips, trips or falls	Low	<ul style="list-style-type: none"> <li>Wear PPE as per chemical requirements SDS – coveralls, gloves, safety footwear, glasses &amp; respirator</li> <li>Follow safe manual handling techniques: don't lift on your own if &gt;20kg, bend knees &amp; keep back straight.</li> </ul>
Mix chemicals (if applicable) and fill spray tank	As above, spray drift, chemical spillage, emission of vapours or flammability: weather, untrained visitors	Medium	<p>As above</p> <ul style="list-style-type: none"> <li>User trained in relevant chemical mixing &amp; administration course, e.g, Chem Cert;</li> <li>Follow relevant Environmental Protection Authority requirements;</li> <li>Fire extinguisher nearby;</li> <li>Keep visitors away from job location unless wearing full PPE.</li> </ul>
Using Spray Unit	As above; loss of load; heat & cold; noise; exceed load limit of vehicle; hose entanglement; exhaust fumes; terrain & slope	High	<p>As above</p> <ul style="list-style-type: none"> <li>wear clothes to suit heat &amp; cold;</li> <li>Wear hearing protection if noise &gt;85 dBa;</li> <li>Follow the manufacturer's safe operation instruction for the vehicle and the spray unit</li> <li>Don't overload - water weighs 1kg for every 1 litre</li> <li>Secure load to vehicle.</li> </ul>
Clean up, maintenance & storage	As above	Low	<p>As above;</p> <ul style="list-style-type: none"> <li>Continue to wear PPE for clean up;</li> <li>Store unit in a dry, well ventilated area.</li> </ul>

# Warranty

## Warranty Policy

TTI will, at its option, repair or replace without charge any part covered by this warranty which is found to be defective in material and/or workmanship within one (1) year after date of sale to the original retail purchaser. If the product is used for rental purposes, this warranty is limited to ninety (90) days.

Upon request, the customer will make the defective part available for inspection and/or return the defective part to TTI, transportation charges prepaid.

TTi does not assume any warranty obligation, liability or modification for these items, which are covered exclusively by the stated warranty of the respective manufacturers.

## What this Warranty Does Not Cover?

### This warranty does not cover:

1. Defects caused by depreciation or damage caused by incorrect mounting, normal wear, accidents, improper maintenance, improper use or abuse of the product, alterations or failure to follow the instructions and warnings provided.
2. Any charges for making service calls, clean up time and transport charges.
3. The use of non-genuine parts on equipment supplied by TTI. This will automatically negate any warranty.

## How to Obtain Service Under this Warranty?

Warranty service can be arranged by contacting your dealer, or by contacting TTI directly on 1800 816 277.

Proof of warranty registration and date of purchase may be required to verify warranty coverage. Any defective parts returned to TTI must be accompanied by a Return Goods Note. This form can be obtained by contacting Product Support on 1800 816 277 or emailing ProductSupport@tti.com.au.

## Warranty Limitations

### Warranty limitations are as follows:

1. There is no other express warranty. Any warranty that may be implied from this purchase including merchantability and fitness for purpose is hereby limited to the duration of this warranty and to the extent permitted by law. Any and all implied warranties are excluded.
2. 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.
3. Only the warranty expressed in this limited warranty shall apply and no dealer, distributor or individual is authorised to amend, modify, or extend this warranty in any way. Accordingly, additional statements, whether oral or written, do not constitute warranties by TTI, and should not be relied upon.



**TranTank<sup>®</sup>**  
INTERNATIONAL



Scan to view our PDF  
Handbook online

**1800 816 277**

**sales@tti.com.au**

PO Box 137, Nathalia, VIC, 3638

Murray Valley Hwy, Nathalia, VIC 3638

Proudly Built By:

---

---

Signature

Date

Quality Checked By:

---

---

Signature

Date

**www.tti.com.au**