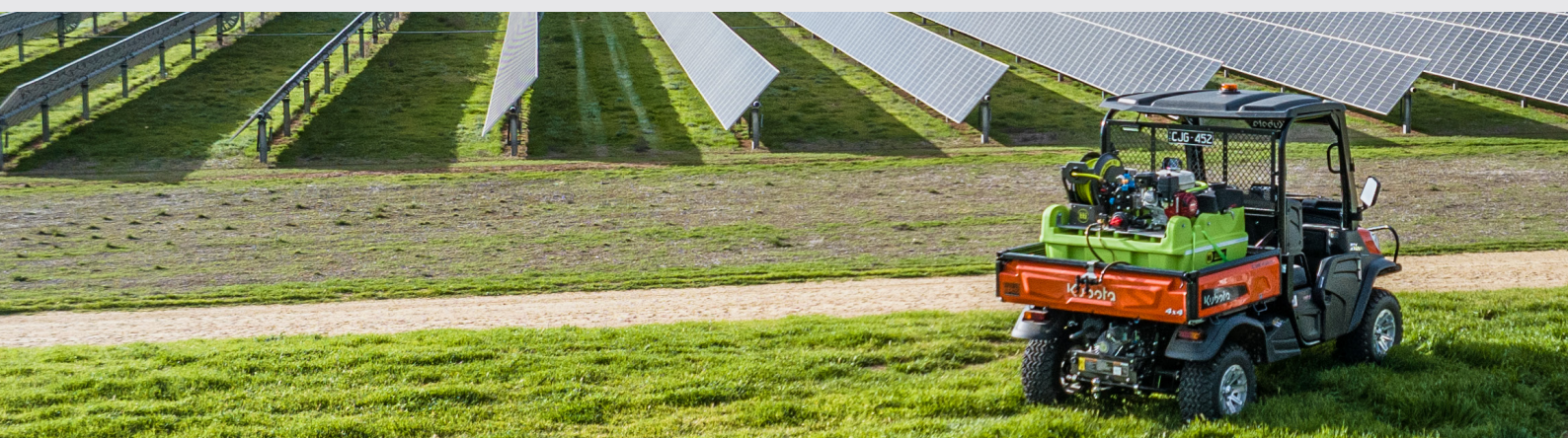


# OnDeck™

## UTV Slip-On Sprayer



“HELPING TO DEVELOP AND PROTECT THE LAND”

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## 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 purchasing a TTi OnDeck<sup>™</sup> Spray Unit (OnDeck), which will provide many years of reliable service when operated and maintained in accordance with this manual.**

TTi manufacture a range of OnDeck units, from 150 through to 300 litre tanks, supplied with either a 12-volt electric or petrol operated pumps, hose reel and spray boom options. This manual describes the operation, driving stability and maintenance procedures applicable to all units, noting additional requirements to options where necessary.

All TTi OnDeck tanks are rotationally moulded from quality polyethylene, purpose designed and manufactured to high standards. The OnDeck is a Utility Terrain Vehicle (UTV) tub-mounted unit designed for everything from herbicide or pesticide spraying through to firefighting purposes. The OnDeck can also be mounted on the back of a utility or trailer.

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

The owner is responsible to ensure that the equipment is operated in accordance with this manual, with Australian WorkSafe requirements, applicable road rules and local council regulations. 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 OnDeck unit is the following documents:

1. Operator's Handbook (this manual, which includes the Warranty Registration Card)
2. Integral Honda Petrol or Delavan electric pump manufacturer's handbook (whichever option selected)
3. Bertolini pump data sheet (includes link to download pump manual). TTi recommends that you download this manual.

## 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 carrying and spraying herbicides and pesticides, or water for firefighting. Under no circumstances should it be used for any other purpose. It must never be used for transporting fuel.
2. Only authorised and trained personnel are to operate this equipment. Operators must have read and fully understood this manual before operating the OnDeck unit.
3. Do not operate the OnDeck unit 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) must be worn when operating the petrol pump on the OnDeck unit. Exposure to excessive noise over an extended period can cause impairment or loss of hearing.
7. PPE appropriate to the chemicals being used must be worn at all times when operating the OnDeck. 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
8. Ensure the capacity of the vehicle is suitable for the loaded mass of the OnDeck. 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.
9. The unit must be securely restrained on the vehicle. Ensure all fasteners are tightened and secure before operation.
10. Care should be taken at all times, particularly when operating on rough or steep terrain. Drivers should be aware of fluid surge affecting the vehicle's centre of gravity.
11. The OnDeck must never be left unattended while being filled with fluids.
12. Do not operate the pump when there is no fluid in the tank.
13. 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.
14. Ensure any electrical connections are properly configured, to prevent damage such as shorting or reverse polarity.
15. At completion of the operation, switch the pump off and relieve any residual pressure by opening either a spray boom valve, or the hose reel valve and squeeze the spray gun trigger.
16. At completion of the operation, decontaminate the OnDeck tank and spray lines. Drain any residue chemicals and store in a sealed container. Dispose of any unwanted chemicals and tank rinse residue in accordance with current environmental and workplace health and safety regulations.
17. The OnDeck has safety labels affixed to various locations on the unit. These labels should be kept clean and legible, and replaced if damaged.
18. 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

## Specifications

Tank	UV resistant polyethylene tank complete – 150 or 300 litre, Compact or Standard edition
Standard Equipment	12V Delavan PowerFlo 7800 Series electric diaphragm pump – 60 or 100psi
	Pressure regulator
	6m hose or 30m hose with hose reel with spray gun
	Sight level tube
Options	Honda petrol engine GX35 with Spray Marshal 12L/min pump
	Honda petrol engine GX200 with Bertolini Italian 22L/min pump
	Honda petrol engine GX200 with Bertolini Italian 34L/min pump
	SuperReel with 50, 100 & 150m hose options with spray gun
	Twin SuperReel with 50, 100 & 150m hose options with spray gun
	Versatile Spray Boom
	Electrically operated solenoid valve for spray boom



## Description

The TTi OnDeck Sprayer Unit is designed to carry and distribute herbicides, pesticides or water using a self-contained pump and various fluid dispensing systems, refer to Figure 1. The OnDeck is configured in two different styles:

- Compact – 150 or 300 litre tank, designed to fit into the trays of Polaris, Can-Am and Honda UTV
- Standard – 300 litre tank, designed to fit into the trays of Kubota and LandBoss UTV.

Either configuration is suitable for fitting to a conventional utility tray or trailer.

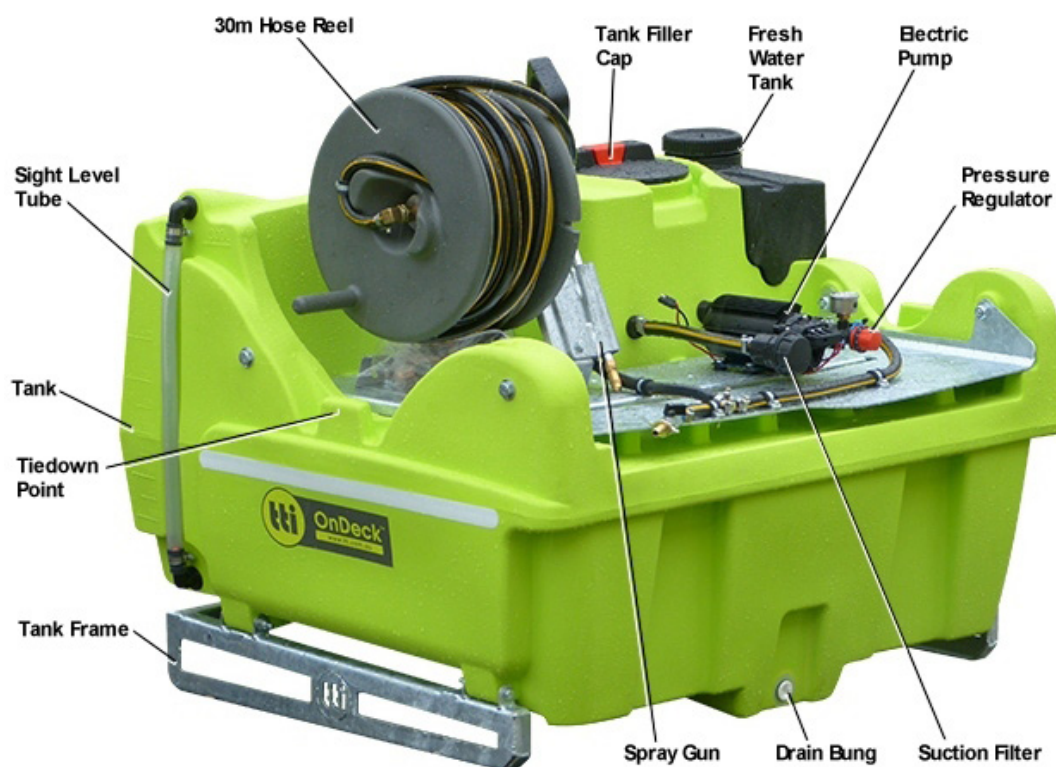


**Figure 1 – OnDeck Purpose-built UTV-mounted Sprayer**

The OnDeck has the following features, refer to Figure 2, Figure 3 and Figure 4.

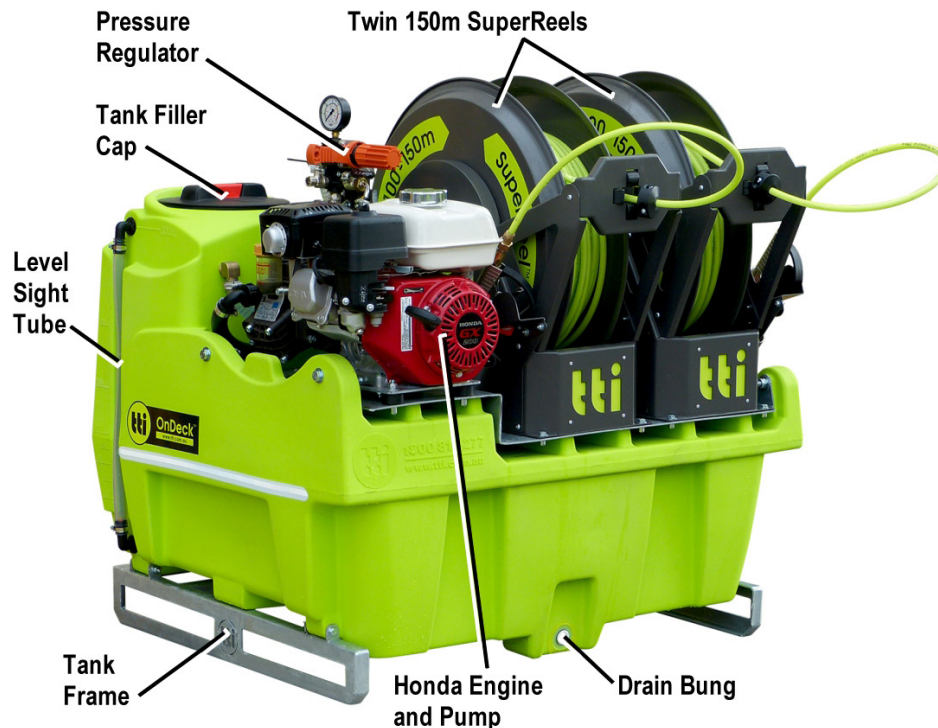


**Figure 2 – Component Identification – Standard Edition with Petrol Pump & 50m SuperReel**



**Figure 3 – Component Identification – Compact Edition with 12V Electrical Pump & 30m Hose Reel**





**Figure 4 – Component Identification – Compact Edition with Petrol Pump & Twin 150m SuperReels**

## Pump Options

The OnDeck is fitted with a range of pump options, depending on configuration:

- 7.5L/min 60psi 12V Delavan PowerFlo 7800 Series electric diaphragm pump
- 7.5L/min 100psi 12V Delavan PowerFlo 7800 Series electric diaphragm pump
- 12L/min Spray Marshal pump with Honda GX35 petrol engine
- 22L/min Bertolini Italian pump with Honda GX200 petrol engine
- 34L/min Bertolini Italian pump with Honda GX200 petrol engine

If the spray gun or spray boom is not in operation when the pump is running, the fluid bypasses back into the tank via the hose operation lever adjacent to the pressure regulator.

## Versatile Spray Boom

An optional 1.2m Versatile spray boom can be mounted to the back of the vehicle or trailer with U-bolt clamps or using the optional Hayman Reece Hitch-it attachment. The spray boom has three adjustable centre nozzles and two off-centre end jets to provide a range of spray volumes and patterns, which can achieve a 4m width swath.

The spray boom is operated by a manual valve or an optional electrically actuated solenoid valve to start up or stop spray operations. When the valve is closed, the fluid bypasses back into the tank.

## 6m Hose and Spray Gun

A manually coiled 6m long 10mm diameter hose is connected to a trigger actuated spray gun with adjustable nozzle. The nozzle adjusts from jet through to mist sprays by rotating the nozzle head. When the trigger is squeezed, the fluid is discharged; when the trigger is released, the fluid bypasses back into the tank.

### **30m Hose Reel and Spray Gun**

An optional manually operated hose reel containing 30m of 10mm diameter hose is connected to a trigger actuated spray gun with adjustable nozzle. The hose is pulled out manually from the reel and retracted using the handle on the side.

The nozzle adjusts from jet through to mist sprays by rotating the nozzle head. When the trigger is squeezed, the fluid is discharged; when the trigger is released, the fluid bypasses back into the tank.

### **50m, 100m and 150m Hose SuperReel and Spray Gun**

Electrically operated hose reel(s) containing 50m, 100m or 150m of 10mm diameter hose connected to a trigger actuated spray gun with adjustable nozzle are available as options. The hose is pulled out manually from the SuperReel and electrically retracted using the supplied remote control.

The spray gun nozzle adjusts from jet through to mist sprays by adjustment of the lever adjacent to the trigger. When the trigger is squeezed, the fluid is discharged; when the trigger is released, the fluid bypasses back into the tank.

### **Pressure Regulator**

A pressure regulator and pressure gauge are fitted to the pump discharge flange to control line pressure and prevent pump cavitation. The regulator is adjustable depending on the operation requirements – for boom spraying, the regulator is to be set to approximately 3 bar; with spot spraying via the hose reel the regulator is set to approximately 5 bar. When spot spraying, pressure can be above or below 5 bar depending on application, pump type and spray gun type.

### **Suction Filter**

Adjacent to the pump a filter is installed on the suction line. The filter has a removeable filter element for easy cleaning.

### **Hose Operation Lever**

A manually operated lever is fitted adjacent to the pressure regulator and has two positions:

- Bypass – directs the fluid back into the tank
- Hose – for operation of the hose.

### **Solenoid Valve**

An optional electrically operated solenoid valve is fitted to feed to the spray boom. The solenoid valve is controlled via the ON/OFF switch located near the cigarette lighter plug or alligator clips, easily accessible to the operator from the driver's seat.

### **Manually Operated Valve**

A manually operated valve is fitted to feed to the spray boom. The valve switches from the hose reel feed to the spray boom feed.

### **Frame**

The chassis frame of the OnDeck unit is an all steel, fully welded construction and hot dip galvanised for corrosion resistance.

### **Tank**

All TTI tanks are constructed from UV resistant, virgin material polyethylene. The tank is fully drainable and includes a sight level tube to provide an accurate level indication of fluid within the tank. The tank inlet is fitted with an internal basket strainer under the filling cap.

Incorporated into the top of the tank is a small fresh water tank with tap for handwashing.

## Machine Limitations

The OnDeck is subject to operating limitations. It is the operator's responsibility to ensure that this equipment is being operated safely and within these limitations.

## Driving Stability

The OnDeck unit is heavy when filled with fluid. To maintain stability while operating this unit:

- Ensure the vehicle tyres are inflated to their correct pressure at all times. Underinflated tyres can cause excessive lateral motion of the tyre, which may cause a rollover.
- Allow extra room for braking and turning when the tank is full.
- Ensure any side gradient (slope) is accounted for, especially when the OnDeck tank is full, as the vehicle may have a higher centre of gravity.

## Spray Boom 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 4, 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 tank with clean water, refer to Filling the OnDeck Tank procedure below. 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:













**Application rate** (L/ha) = (600 x total sprayer output (L/min)) / (swath width (m) x 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 x 5 = 62.5 L/ha)/(6 x 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.



	 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	
 AIXR110015 (100)	1.0	XC	—	0.34	81.6	68.0	58.3	51.0	40.8	34.0	25.5	22.7	20.4	11441A*-CEL R
	2.0	C	—	0.48	115	96.0	82.3	72.0	57.6	48.0	36.0	32.0	28.8	
	3.0	C	—	0.59	142	118	101	88.5	70.8	59.0	44.3	39.3	35.4	
	4.0	M	—	0.68	163	136	117	102	81.6	68.0	51.0	45.3	40.8	
	5.0	M	—	0.76	182	152	130	114	91.2	76.0	57.0	50.7	45.6	
	6.0	M	—	0.83	199	166	142	125	99.6	83.0	62.3	55.3	49.8	
 AIXR11002 (50)	1.0	XC	—	0.46	110	92.0	78.9	69.0	55.2	46.0	34.5	30.7	27.6	
	2.0	VC	—	0.65	156	130	111	97.5	78.0	65.0	48.8	43.3	39.0	
	3.0	C	—	0.79	190	158	135	119	94.8	79.0	59.3	52.7	47.4	
	4.0	M	—	0.91	218	182	156	137	109	91.0	68.3	60.7	54.6	
	5.0	M	—	1.02	245	204	175	153	122	102	76.5	68.0	61.2	
	6.0	M	—	1.12	269	224	192	168	134	112	84.0	74.7	67.2	
 AIXR110025 (50)	1.0	XC	**	0.57	137	114	97.7	85.5	68.4	57.0	42.8	38.0	34.2	
	2.0	VC	**	0.81	194	162	139	122	97.2	81.0	60.8	54.0	48.6	
	3.0	VC	**	0.99	238	198	170	149	119	99.0	74.3	66.0	59.4	
	4.0	C	**	1.14	274	228	195	171	137	114	85.5	76.0	68.4	
	5.0	C	**	1.28	307	256	219	192	154	128	96.0	85.3	76.8	
	6.0	M	—	1.40	336	280	240	210	168	140	105	93.3	84.0	
 AIXR11003 (50)	1.0	XC	**	0.68	163	136	117	102	81.6	68.0	51.0	45.3	40.8	
	2.0	VC	**	0.96	230	192	165	144	115	96.0	72.0	64.0	57.6	
	3.0	VC	**	1.18	283	236	202	177	142	118	88.5	78.7	70.8	
	4.0	C	**	1.36	326	272	233	204	163	136	102	90.7	81.6	
	5.0	C	**	1.52	365	304	261	228	182	152	114	101	91.2	
	6.0	M	—	1.67	401	334	286	251	200	167	125	111	100	
 AIXR11004 (50)	1.0	UC	***	0.91	218	182	156	137	109	91.0	68.3	60.7	54.6	
	2.0	XC	**	1.29	310	258	221	194	155	129	96.8	86.0	77.4	
	3.0	VC	**	1.58	379	316	271	237	190	158	119	105	94.8	
	4.0	VC	**	1.82	437	364	312	273	218	182	137	121	109	
	5.0	C	**	2.04	490	408	350	306	245	204	153	136	122	
	6.0	C	—	2.23	535	446	382	335	268	223	167	149	134	
 AIXR11005 (50)	1.0	UC	***	1.14	274	228	195	171	137	114	85.5	76.0	68.4	
	2.0	XC	***	1.61	386	322	276	242	193	161	121	107	96.6	
	3.0	VC	**	1.97	473	394	338	296	236	197	148	131	118	
	4.0	VC	**	2.27	545	454	389	341	272	227	170	151	136	
	5.0	C	**	2.54	610	508	435	381	305	254	191	169	152	
	6.0	C	—	2.79	670	558	478	419	335	279	209	186	167	
 AIXR11006 (50)	1.0	UC	***	1.37	329	274	235	206	164	137	103	91.3	82.2	
	2.0	XC	***	1.94	466	388	333	291	233	194	146	129	116	
	3.0	VC	***	2.37	569	474	406	356	284	237	178	158	142	
	4.0	VC	**	2.74	658	548	470	411	329	274	206	183	164	
	5.0	C	**	3.06	734	612	525	459	367	306	230	204	184	
	6.0	C	—	3.35	804	670	574	503	402	335	251	223	201	
 AIXR11008 (50)	1.0	UC	—	1.82	437	364	312	273	218	182	137	121	109	11443A*-CEL R
	2.0	XC	—	2.58	619	516	442	387	310	258	194	172	155	
	3.0	VC	—	3.16	758	632	542	474	379	316	237	211	190	
	4.0	VC	—	3.65	876	730	626	548	438	365	274	243	219	
	5.0	VC	—	4.08	979	816	699	612	490	408	306	272	245	
	6.0	C	—	4.47	1073	894	766	671	536	447	335	298	268	
 AIXR11010	1.0	UC	—	2.28	547	456	391	342	274	228	171	152	137	
	2.0	UC	—	3.23	775	646	554	485	388	323	242	215	194	
	3.0	XC	—	3.95	948	790	677	593	474	395	296	263	237	
	4.0	VC	—	4.56	1094	912	782	684	547	456	342	304	274	
	5.0	VC	—	5.10	1224	1020	874	765	612	510	383	340	306	
	6.0	VC	—	5.59	1342	1118	958	839	671	559	419	373	335	

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

Figure 5 – AIXR Application Chart

# OnDeck Operating Instructions

## Before first use

Your OnDeck Spray Unit is delivered fully 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, along with the Tank Quality Check Form and pump unit's manual 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 OnDeck 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 OnDeck for the first time.
4. Check that all fittings, valves, hoses and electrical leads are secure following transit, and are not damaged in any way.
5. Inspect the tank for any damage or abrasions that may occur during transit.



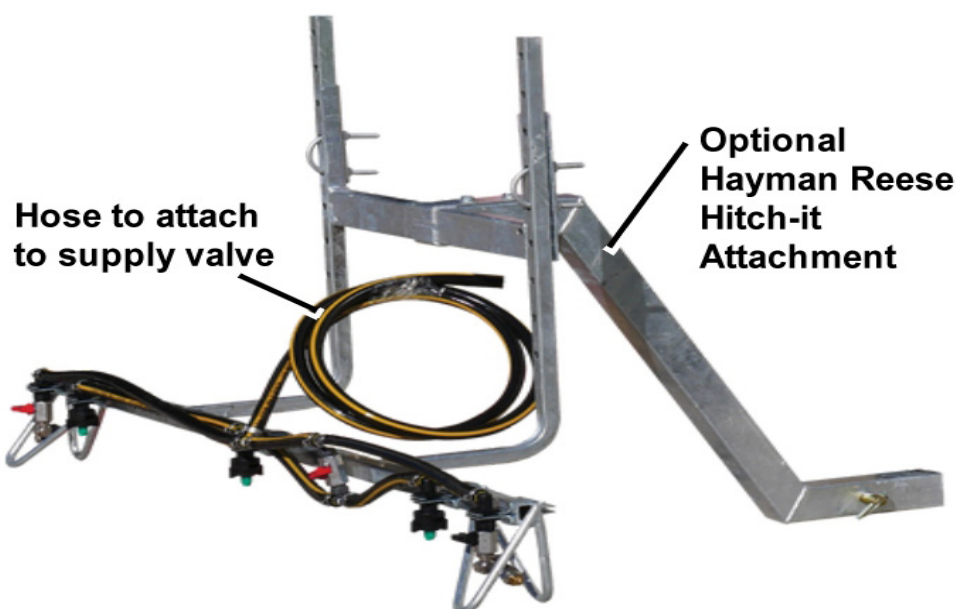
**CAUTION: The unit must be securely mounted to the vehicle. Failure to do so may result in the unit moving or falling off the moving vehicle. Warranty is conditional on the unit being correctly mounted.**

6. Position your OnDeck unit onto the vehicle and mount securely, either using tie-down straps located into the tie-down recesses or lugs on both sides of the tank, depending on configuration, refer to Figure 2 and Figure 3 for locations. The tie-down straps must be rated to at least the total mass of the unit when filled with fluid. Alternatively, the integrated tank frame may be bolted to the vehicle.
7. Where a petrol driven pump option is fitted, refer to the supplied pump unit's manual and prepare the engine for use, such as filling its tank with fuel.



**CAUTION: Ensure any electrical connections are configured correctly to prevent shorting or reverse polarity. Warranty is conditional on the electrical systems being correctly connected.**

8. Where an electrical pump option is fitted, install the supplied electrical cable and connect it to the vehicle's power supply (cigarette lighter socket) or battery (via alligator clips). The ON/OFF switch is cable mounted and easily accessible to the operator from the driver's seat.
9. Where the optional electrically operated solenoid valve is fitted, install the supplied electrical cable and connect it to the vehicle's power supply (cigarette lighter socket) or battery (via alligator clips). The ON/OFF switch is cable mounted and easily accessible to the operator from the driver's seat.
10. Where the optional spray boom is ordered (refer to Figure 5), install it to the vehicle and connect the hose to the manually operated valve or the optional solenoid operated valve.
11. Where the optional SuperReel is fitted, connect the supplied electrical cable to the Anderson plug at the base of the SuperReel and connect the other end to the vehicle's power supply (cigarette lighter socket) or battery (via alligator clips).
12. It is recommended that at first use, the OnDeck is filled with water for calibration purposes and for the operator to become familiar with the characteristics of the unit.



*Figure 6 – Spray Boom Arrangement*

## Filling the OnDeck Tank



**WARNING!** Ensure the filling area is in an open, well ventilated space if filling with chemicals. Follow the instructions provided with the chemicals or the applicable Safety Data Sheet.

Mixing and filling the OnDeck should be undertaken at a carefully chosen site, away from any risk of spillages draining into water courses or into environmentally sensitive areas. Children and animals must always be kept away from mixing and filling operations.

The unit's tank is filled as follows:

1. Open the tank filler by twisting and lifting the cap.
2. Withdraw the internal basket strainer and inspect it for any debris. Clean it if required and reinstall it into the top of the tank.
3. Follow the chemical manufacturer's instructions and safety precautions carefully, taking note of the order in which the products are added to the tank.
4. Measure the correct quantities of chemicals using clean measuring containers specifically for this purpose only, then add the chemicals to the tank.
5. Rinse out the measuring containers and any empty containers and pour the all rinsing's into the OnDeck tank.



**CAUTION! Do not overfill the tank. This may result in chemical spillage.**



**CAUTION! The OnDeck must never be left unattended while being filled with fluid.**

6. Top up the tank with water to the required level, ensuring it is not overfilled. A sight tube is located at a corner of the tank, providing a visual indication of the fluid level in the tank.
7. Thoroughly mix the contents by stirring with a suitable paddle or starting the pump with the hose operation lever set to the BYPASS position.
8. Upon completion of filling the OnDeck tank, replace the filler cap and twist to tighten.
9. Wash off any spillage from outside the tank.
10. Close the chemical supply containers and store appropriately. Any empty containers must be thoroughly rinsed and set aside for collection and disposal in compliance with environmental and work safety requirements.

## Operating Instructions

The OnDeck is started and operated as follows:

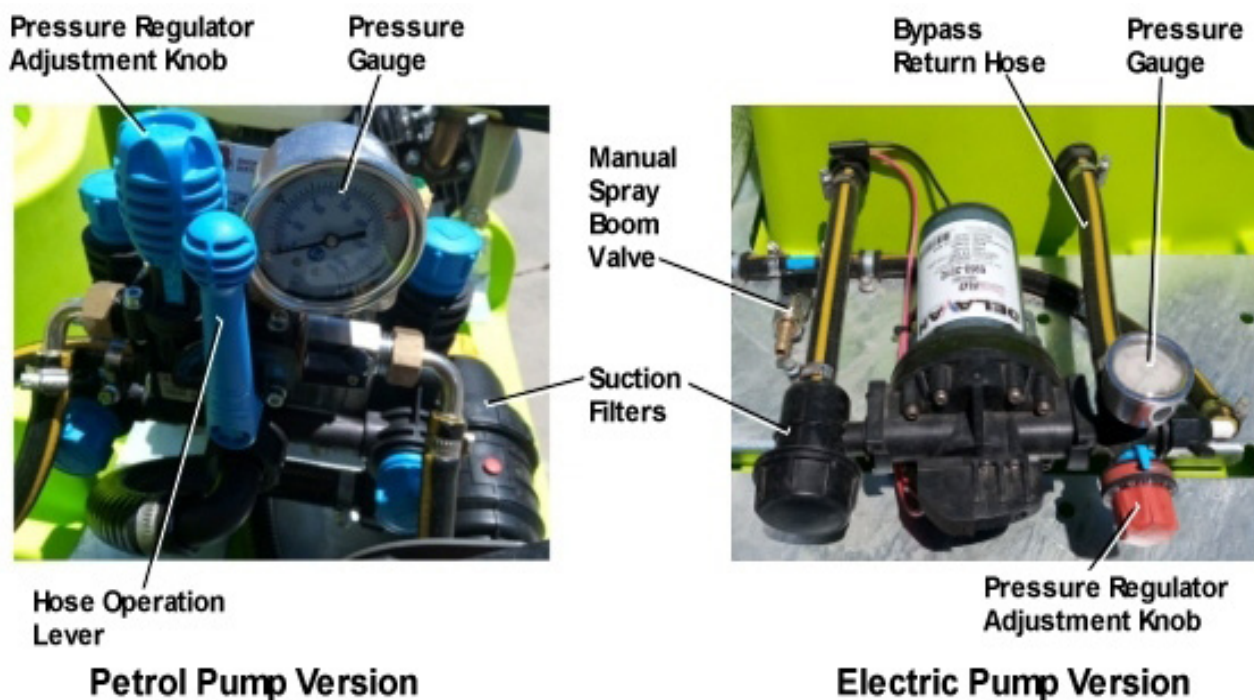
1. Position the vehicle at a suitable point of the operations area.
2. Confirm the tank contains the required chemical or water quantity by observing the fluid level at the sight level tube.





**CAUTION! Ensure the pressure regulator is set to the minimum position.**

3. At the pump, check that the pressure regulator is set to the minimum position by turning the knob anti-clockwise, refer to Figure 7.



**Figure 7 – Pressure Regulator**

4. Check that the hose operation lever is in the BYPASS position.
5. Check that the spray boom valve (either the manually controlled or optional solenoid operated valve) is closed.
6. Start the pump:
  - For the petrol pump, refer to Petrol Pump Operation procedure below.
  - For the electric pump, turn the cable mounted switch to ON.
7. With the pump running, turn the operation lever from BYPASS to the ON position.
8. Turn the pressure regulator knob clockwise to the required pressure – approximately 3 bar for spray boom operation, and 5-bar bar for petrol hose spray application, & full pressure for 12v pump hose spray (turn regulator knob clockwise). Refer to the calibration procedure described above for the actual required pressure setting.
9. For spraying operations, refer to:
  - Spray Boom Operation
  - Hose Spray Operation

## Petrol Pump Operation

The OnDeck's optional Honda GX35 or GX200 petrol pump engine is started as follows, refer to Figure 8:

1. Turn the ignition switch to ON.
2. Turn the fuel tap to ON.
3. Set the choke lever to the closed position.



**CAUTION! Ensure the engine's throttle is set to idle if the engine is cold. Do not adjust the throttle to maximum speed until the engine has warmed up.**

4. Check that the throttle is set to the idle position. If restarting a warm engine, the throttle can be left at normal engine operating speed.
5. Grasping the pull-start handle, firmly pull to start the engine. This may need to be repeated 2-3 times. If the engine fails to start, refer to the supplied pump manual.



**Figure 8 – Petrol Pump Details (GX35 shown, GX200 similar)**

6. Once the engine starts, slowly move the choke lever to the open position.
7. Once the engine is warmed up, slowly increase the engine speed to a medium setting, which should result in the required performance while minimising the fuel consumption and excessive engine noise.
8. When the engine needs to be stopped, turn the ignition switch to the OFF position.

If the OnDeck is not going to be used within the next few hours, shut the system down as follows:

1. Set the engine throttle lever to the idle position.
2. Turn the fuel tap to OFF.

## Spray Boom Operation



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

Set up and operation of the spray boom 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. Set the required spray selection by opening or closing the individual control valves on the spray nozzle lines, refer to Figure 9.
2. Position the vehicle at the starting point of the operations area.
3. Depending on the OnDeck configuration, refer to the following sections.

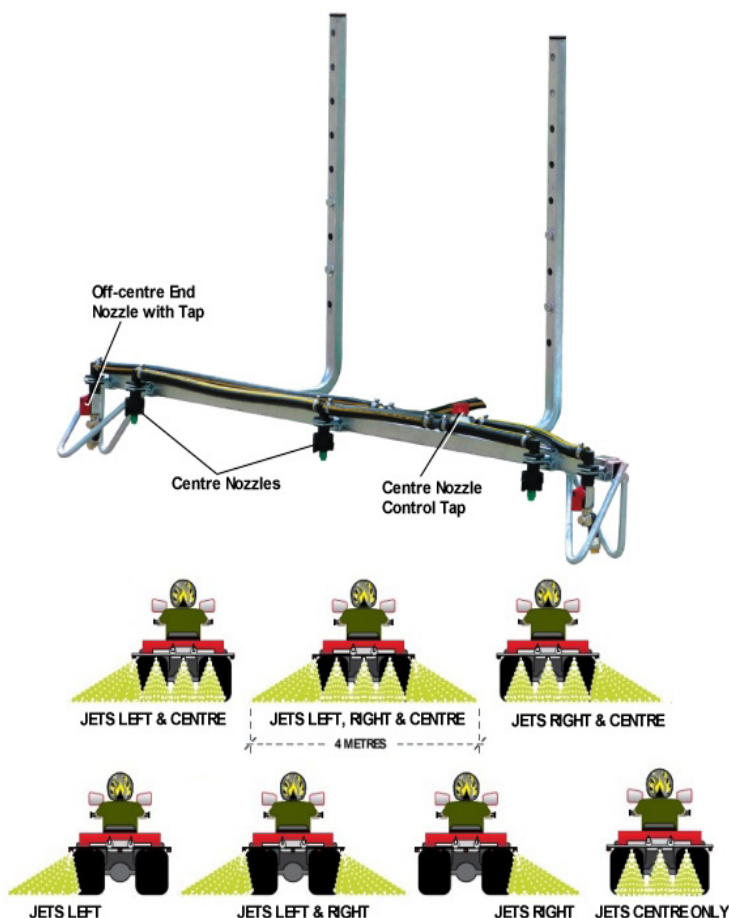
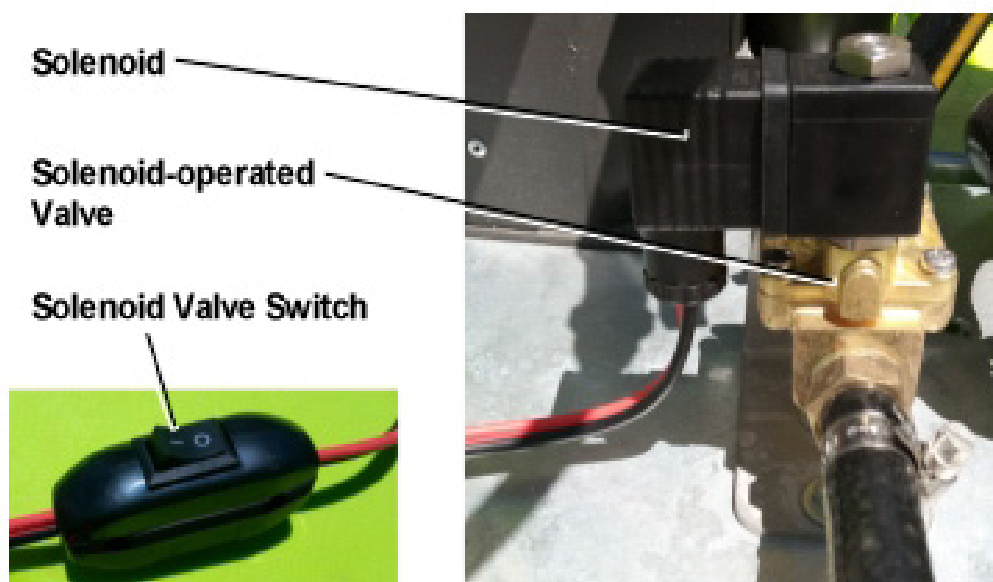


Figure 9 – Spray Boom Details

### ***Petrol Pump equipped OnDeck***

Starting spray boom operations for the petrol pump equipped OnDeck is as follows:

1. Ensure the cable-mounted switch to the solenoid actuated spray boom valve is set to OFF. Start the pump and set the engine speed and the pressure regulator to the correct setting as determined during calibration. The fluid will now be circulating through the system and returning to the tank via the bypass circuit.
2. From the vehicle's driver's seat, open the valve to the spray boom by turning the solenoid switch to ON (Refer to Figure 10). The fluid will now start to discharge from the boom spray nozzles.
3. Commence driving the vehicle at the speed determined during calibration to achieve the required spray outcome.
4. At the end of each swath or before turning around, shut off the spray boom by closing the solenoid actuated valve. When commencing the next swath, turn the valve back to ON.



***Figure 10 – Solenoid-operated Spray Boom Valve***

### ***Electric Pump equipped OnDeck***

Starting spray boom operations for the electric pump equipped OnDeck is as follows:

1. Turn the manually operated spray boom valve to ON (if the optional solenoid actuated valve is fitted, turn the cable-mounted switch to ON, refer to Figure 10).
2. From the vehicle's driver's seat, turn the electric pump to ON. The fluid will now start to discharge from the boom spray nozzles.
3. Commence driving the vehicle at the speed determined during calibration to achieve the required spray outcome.
4. At the end of each swath or before turning around, shut off the spray boom by either turning the pump to OFF, or if equipped, closing the solenoid actuated valve. When commencing the next swath, turn the pump to ON or the solenoid valve back to ON.



## Hose Spray Operation

Set up and operation of the hose spray system is conducted as follows:



**WARNING! Suitable PPE must be worn by the operator when conducting manual hose spraying operations.**



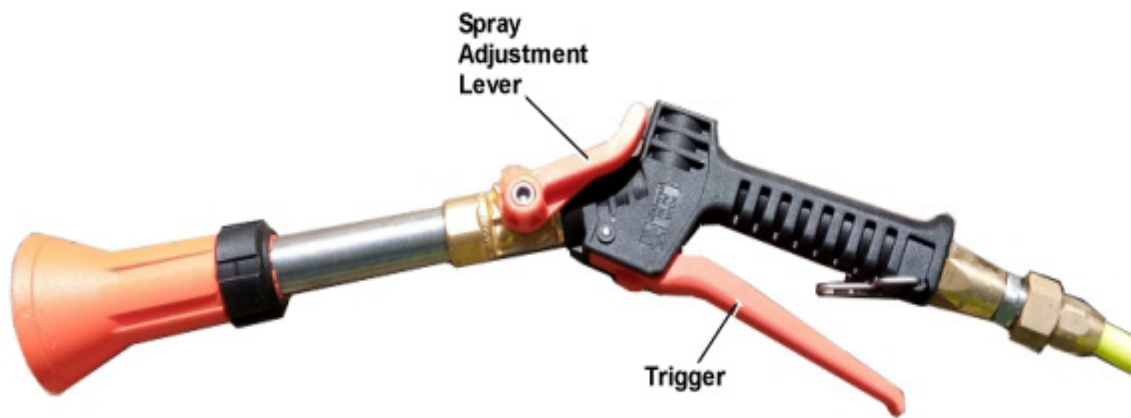
**CAUTION! Do not spray in windy conditions, where spray drift contamination may occur.**

1. Position the vehicle at a suitable point of the operations area.
2. Depending on the OnDeck configuration, ensure the hose operation lever is set to the BYPASS position and the pressure regulator is set to minimum. Start up the pump (refer to Petrol Pump Operation for the start up procedure, or turn the electric pump's cable-mounted switch to ON). The fluid will now be circulating through the system and returning to the tank via the bypass circuit.
3. Set the pressure regulator to approximately 5-bar bar for petrol engines, & full pressure for 12v pumps (turn regulator knob clockwise) – this can be fine-tuned as required.



**CAUTION! Ensure not to over-run the hose when pulling it out from the reel, as this may damage the hose or the fittings.**

4. Uncoil the hose. If the OnDeck is fitted with a hose reel, pull the hose to unwind it from the reel.
5. At the OnDeck unit, turn the hose operation lever to the HOSE position. This will now pressurise the hose.
6. Aim the hose's spray gun in the required direction and squeeze the trigger. Adjust the spray pattern by rotating the nozzle tip or operating the lever on the spray gun handle (depending on the option selected), refer to Figure 11.
7. Use a constant speed when spraying and release the trigger at the end of each swath or change of direction, to prevent overdosing. Work in parallel lines when spraying large areas, rather than swinging from side to side.
8. At the end of the task, release the spray gun trigger and switch the pump OFF. The fluid will automatically recirculate through the system and return to the tank via the bypass circuit until the pump is switched OFF.
9. Aiming the spray gun in the required direction, squeeze the trigger to release the residual pressure in the hose, which will result in a small amount of fluid discharging.



**Figure 11 – Spray Gun (typical)**

10. With the hose pressure released, the hose is ready to stow back on the OnDeck. Refer to the following section applicable to the hose option supplied with your unit.

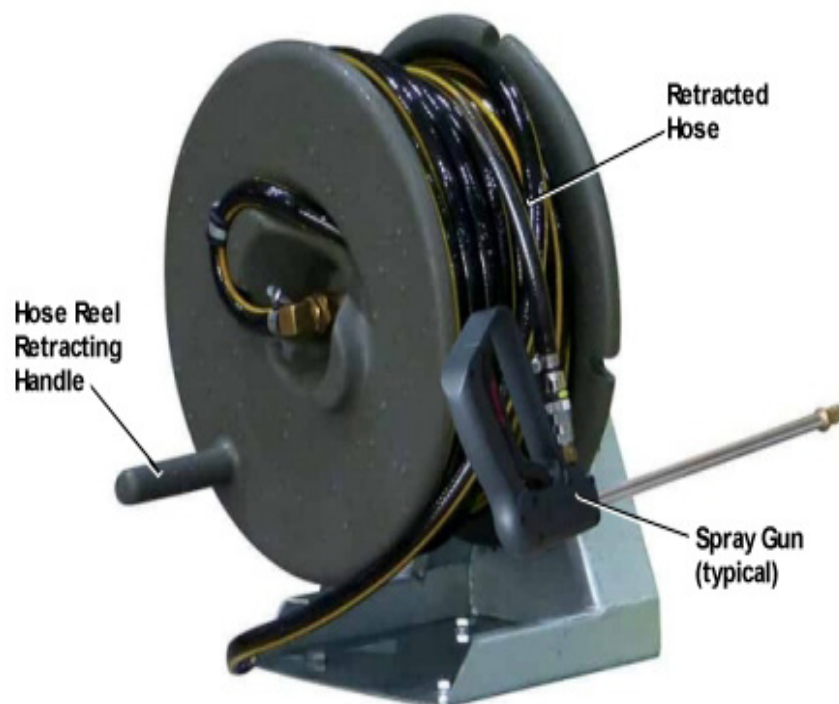
### **6m Hose**

The Compact 150 litre OnDeck is provided with a 6m hose and spray gun. To stow the hose, simply coil it loosely and hang it on the side of the unit.

### **30m Hose Reel**

The 30m hose reel is manually operated, refer to Fig X. To retract the hose, turn the handle at the side of the hose reel to wind it onto the spool, guiding the hose as necessary to ensure even distribution across the width of the reel. Allow enough slack in the hose to stow the spray gun in its holder beside the reel.

The reel has a four-position locking device to prevent the hose unwinding during transit.



**Figure 12 – 30m Manual Hose Reel**

## SuperReel

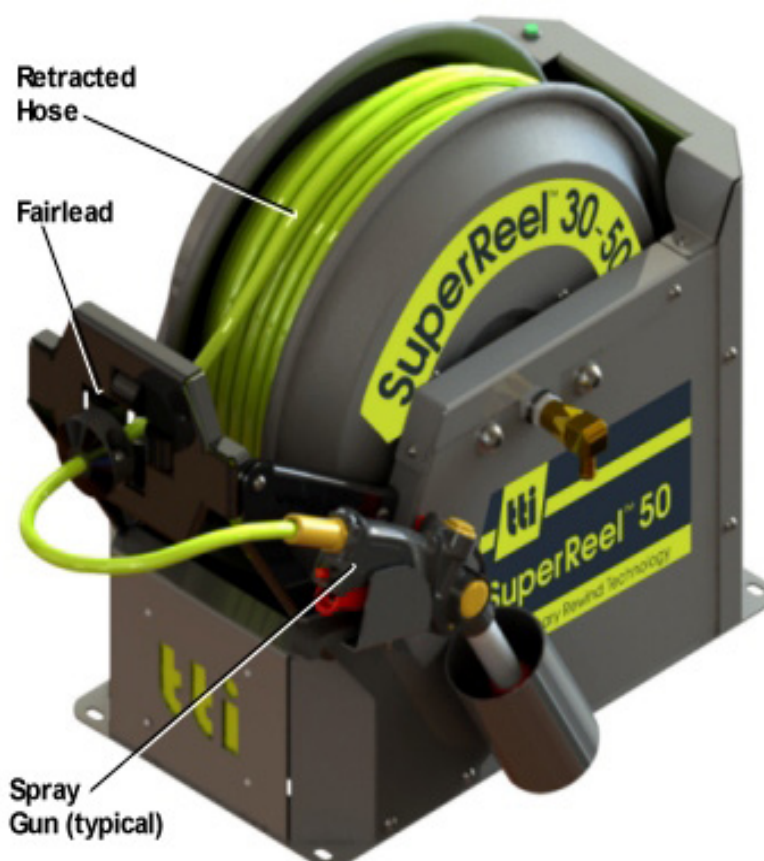
The 50, 100, 150m TTi SuperReel is an electrically retracted hose reel, refer to Figure 13.



**CAUTION!** Ensure any electrical connections are configured correctly to prevent shorting or reverse polarity. Warranty is conditional on the electrical systems being correctly connected.

Ensure the supplied electrical cable is correctly connected to the vehicle's power supply, either via the cigarette plug or alligator clips to the battery. The SuperReel connection point is an Anderson plug, which mates with the supplied power cable.

To retract the hose, apply a little tension to the hose, to ensure the hose does not flip off the spool upon starting. Press the button on the remote control supplied with the SuperReel to start retracting the hose. The hose will wind on to the reel's spool, guided by the integrated fairlead. Release the button when the hose is retracted, allowing enough slack in the hose to stow the spray gun in its holder beside the SuperReel.



*Figure 13 – 50m SuperReel (other variants similar)*

## Clean-up and Decontamination

After use, the OnDeck unit must be thoroughly decontaminated inside and outside – including the pump, hoses, boom and spray gun – to avoid damage to crops from any harmful spray residues. Decontamination also prevents sprayer corrosion and abrasion.

Cleaning the OnDeck 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 OnDeck unit. 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 via the bung located at the bottom of 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. Where it can be reached internally, use a brush to scrub the inside of the tank.
3. Operate the OnDeck unit with clean water, using both the spray boom and hose (as applicable), to ensure no chemical residue remains.
4. Unscrew the suction filter cover and remove the filter screen and gasket. Soak the filter screen in clean water, brushing carefully with a nozzle brush. When re-assembling, ensure the gasket is in position.
5. Ensure that the tank's basket strainer is free from chemical residue or debris.
6. Nozzles, nozzle filters, nozzle caps and gaskets 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 OnDeck is to be stored for an extended period, thoroughly clean and decontaminate the unit as described above. Ensure it is allowed to dry, the tank and all lines empty and not pressurised then store it in a well ventilated area.



## Maintenance

Your OnDeck Spray Unit 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 checks and cleaning operations should be undertaken on a regular basis (at least annually). The frequency of these activities will depend on the nature of the operating environment and the operational hours of the Storm unit.

1. Clean the unit and inspect it for any signs of damage or wear. Replace any safety labels if they are damaged or illegible.
2. Check all fittings are firmly secured, tighten if necessary.
3. Unwind the hose from the reel fully to check that hose is in good order. Pressurise the line and check operation of spray gun nozzle. Rewind the hose onto the reel, ensuring it retracts all the way.
4. If fitted with the petrol engine driven pump, check the engine's oil level weekly. Top up if required.
5. Check for any signs of fuel or oil leaks around the engine. If detected, investigate and rectify.
6. Check the engine fuel line filter, clean or replace as necessary.
7. Clean the engine's air filter regularly, especially if working in a dusty environment.
8. Check all electrical cables and fittings for any sign
9. If the OnDeck is to be stored for an extended period, thoroughly clean and decontaminate the unit as described above. Ensure it is allowed to dry, the tank 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 task 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 OnDeck unit.**

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 OnDeck unit.

No.	Task	Notes
1	Inspect the OnDeck unit for any signs of damage or wear	Clean, repair or replace
2	Check electrical plug connection	Test function of pump and solenoid valve(s)
3	Check fuel (petrol pump option)	Top up as required
4	Inspect engine's air filter and housing for dust	Clean, replace as necessary

## 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	Remove and clean the petrol engine's air filter		
3	Check engine oil level, top up as required		
4	Check pump oil level, top up as required (refer to Figure 14, 22L and 34L/min Bertolini pumps only)		

## 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 hose and hose reel by unwinding fully		
3	* Change pump engine oil (and filter, if fitted) (first change, thereafter every six months or 100 operating hours)		

## 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		
2	Inspect the petrol engine air filter, replace if clogged or damaged		
3	Check all hoses, fasteners, nozzles and fittings		

## 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		
2	Change engine oil (and filter, if fitted)		
3	Inspect spark plug		

## 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		
2	Electric pump inspection and clean		
3	Replace the petrol engine's air filter		
4	Drain and flush the fuel tank		
5	Replace the engine's fuel filter		
6	Replace the spark plug		

## Two Yearly 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		
2	Change pump oil (22L and 34L/min Bertolini pump only)		
3	Replace pump check valves and diaphragms		
4	Disassembly, clean and repack wheel bearings		

## Maintenance Tasks

The following tasks must be undertaken on a periodic basis to ensure your OnDeck's ongoing reliability.

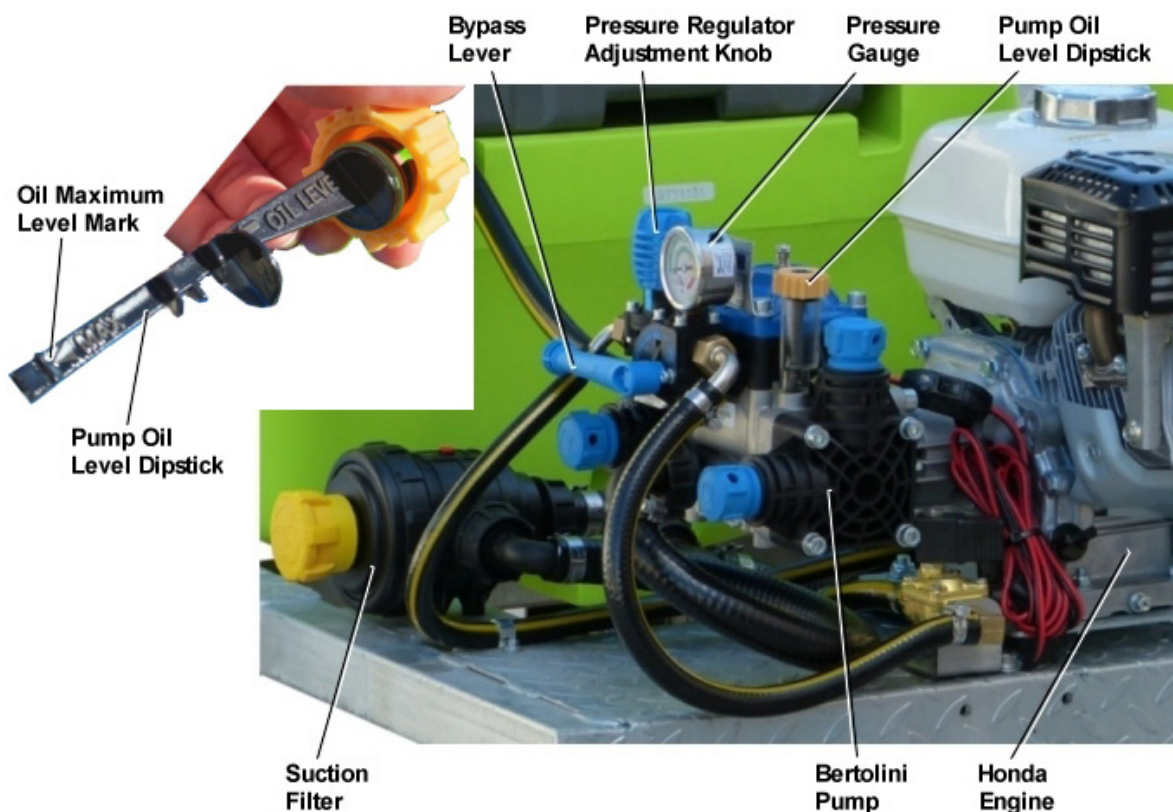


**CAUTION! In dusty, dirty or smoky environments, cleaning, inspection and servicing of the unit on a regular basis is essential. The cleaning, inspection and servicing must be undertaken more frequently in harsh conditions to avoid damage or destruction of equipment.**

The frequency of these activities will depend on the nature of the operating environment and the operational hours of the OnDeck but as a minimum, the following tasks should be undertaken annually.

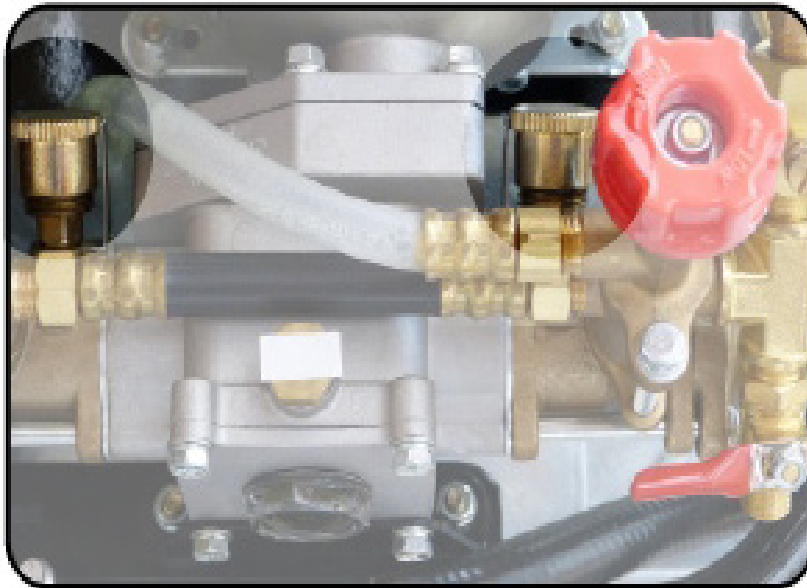
### Petrol Driven Pump

1. Refer to the supplied pump engine's manual, drain and replace the engine oil in accordance with the manufacturer's recommendations.
2. Clean engine's air filter regularly, especially if working in a dusty environment.
3. Unscrew the suction filter cover (refer to Figure 14) and remove the filter screen and gasket. Soak the filter screen in clean water, brushing carefully with a nozzle brush. When re-assembling, ensure the gasket is in position.
4. For the 22L and 34L/min Bertolini pump, check the oil level, refer to Figure 14.



**Figure 14 – Bertolini Pump and Suction Filter (typical)**

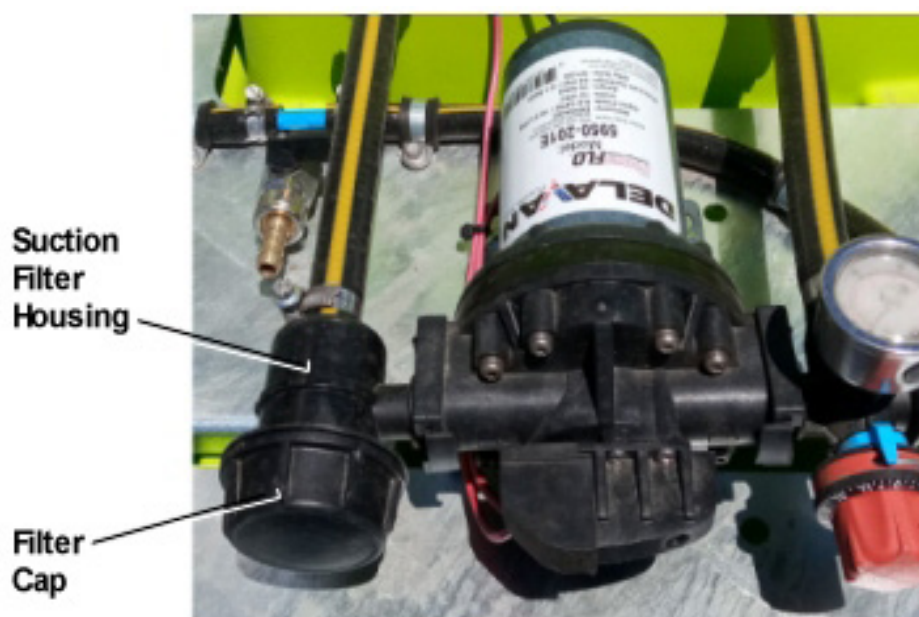
- For the Honda GX35 engine only, check the two grease cups located at the back of the pump, refer to Figure 15. Rotate the grease cups 2-3 turns clockwise every 2 hours of operation. Once the grease caps are fully wound in, undo and refill with general purpose grease.



**Figure 15 – Petrol Pump's Grease Cups (GX35 engine only)**

### **Electric Pump**

- Check all fittings are firmly secured, tighten if necessary.
- Inspect electrical cables and connections, repair or replace as necessary.
- Unscrew the suction filter cover (refer to Figure 15) and remove the filter screen and gasket. Soak the filter screen in clean water, brushing carefully with a nozzle brush. When re-assembling, ensure the gasket is in position.



**Figure 16 – Electric Pump's Suction Filter**



## Manual Hose Reel

1. Fully unwind the hose and inspect for any signs of damage or wear, replace as necessary.
2. Inspect and clean the hose spray gun, replacing seals and nozzles as required.

## SuperReel

1. Fully unwind the hose and inspect for any signs of damage or wear, replace as necessary.
2. Inspect and clean the hose spray gun, replacing seals and nozzles as required.
3. Check guards and fairlead rollers.
4. Check the drive belt tension weekly, adjust as necessary.
5. Check electrical cables and connections weekly.
6. Check the SuperReel bearings for any noise or friction monthly.
7. Replace the remote control battery annually.
8. Replace the drive belt annually.
9. Inspect the drive motor annually.

## SuperReel Remote Control Pairing

In the event that the remote control unit is lost or damaged, a replacement can be ordered by contacting TTI on 1800 816 277. The replacement unit will be configured for the SuperReel but the operator will need to pair the new remote control unit with the SuperReel. Pairing is the process to obtain a unique assignment between the remote control unit and the SuperReel.

The pairing process can be undertaken on site as follows, refer to Figure 17:



**NOTE! Check that the battery in the remote control unit is in good condition.**

1. Pull out the hose fully, which will allow access to the electrical box located on the inside rear of the SuperReel's housing.
2. Locate the receiver unit inside the electrical box – the receiver unit is connected to the antenna cable that runs up to top of the reel's housing.
3. Check that all switches on the receiver's 12-way dip switch are set to OFF.
4. Press and hold the program button on the receiver.
5. Press the remote control unit's button for 2 seconds. The receiver's LED will flash and then turn GREEN.
6. Release the buttons on the receiver and the remote control unit.
7. Press the remote control unit's button to test the receiver's output. The hose should commence to wind in.
8. Fully retract the hose onto the SuperReel, allowing enough slack to place the spray gun into its holder.

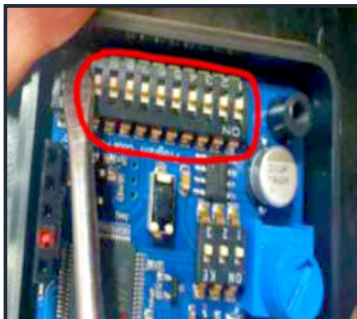
# SuperReel<sup>™</sup>

## Remote Control Pairing

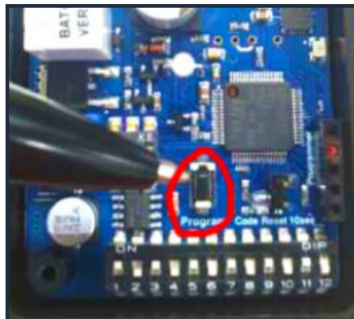


If you have a 2 button remote, ensure dip switches are set to Off in the remote control

12-way Dip Switch  
Set to OFF



Press and Hold  
Program Button



LED will Flash  
Then Turn GREEN



Figure 17 – SuperReel Remote Control Pairing

## Trouble Shooting

If a fault develops with your OnDeck unit, the following trouble shooting tables provides guidance to identify and rectify the problem.

### Pump

Problem	Possible cause	Remedy
Pump will not prime	Insufficient motor speed	Increase motor speed
	Air leak on suction line	Tighten or replace fittings
Pressure drops under load and pump is noisy	Insufficient motor speed to prevent clutch slippage	Increase motor speed
Pressure drops or fluctuates during operation	Suction line restriction	Remove restriction
	Pump sucks air	Tighten or replace fittings
	Residue on valves	Disassemble and clean valves, replace any broken valve springs as necessary
No pressure	Residue on valves	Disassemble and clean valves, replace any broken valve springs as necessary
	Broken regulator spring	Replace regulator spring

### SuperReel

Problem	Possible cause	Remedy
SuperReel does not wind	ON/OFF switch not turned on	Check switch
	ON/OFF switch faulty	Check/replace ON/OFF switch
	Fuse blown	Check/replace fuse
	Loose electrical connections	Check battery and connections
	Manual switch faulty	Check manual switch
	Loose/broken drive belt	Adjust or replace drive belt
	Seized bearings on reel shaft	Replace bearings
Remote does not operate at distance	Damaged aerial or lead	Repair or replace aerial or lead
	Battery flat	Replace battery
Remote does not operate	Remote not paired with the receiver	Pairing required, refer to Pairing Instructions
	Battery flat	Battery replaced in remote
	Faulty transmitter/receiver	Return to TTI for repair or replacement

# RiskAssessment

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	<ul style="list-style-type: none"> <li>As above</li> <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>
Check the Spray Unit and carry vehicle is safe before use, i.e. where applicable: - wheel nuts, tire pressure, bearings, tow hitch, etc. Use spray unit as per instructions in manual	As above; loss of load; heat & cold; noise; exceed load limit of vehicle; hose entanglement; exhaust fumes; terrain & slopes;	High	<ul style="list-style-type: none"> <li>As above</li> <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> <li>Keep hose tidy;</li> <li>Put unit brakes on.</li> </ul>
Clean up, maintenance & storage	As above	Low	<ul style="list-style-type: none"> <li>As above;</li> <li>Continue to wear PPE for clean up;</li> <li>Store unit in a dry, well ventilated area.</li> </ul>

# Warranty

## Your rights under the law

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law.

You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

## About this document

This document sets out the terms of the defects warranty that we offer to retail purchasers of our goods, including components, parts, and accessories (referred to as “products” in this document). We offer this defects warranty in addition to the consumer guarantees referred to above. Nothing in this document excludes or reduces your rights under those consumer guarantees.

## What this warranty covers

This warranty covers defects in materials or workmanship (or both) which are found to be present in our products, other than the defects in the parts and components listed below.

## What this warranty does not cover

This warranty does not cover defects or damage caused by your negligence, your failure to follow instructions (including incorrect assembly or mounting by you), or the improper use, maintenance, or abuse of the products.

This warranty does not cover engines, gearboxes, pumps, or regulators. These come with separate warranties from their manufacturers. By offering this defects warranty, we do not assume any additional obligations or liability on behalf of those manufacturers beyond what we must do to comply with the consumer guarantees referred to above.

## How long this warranty lasts for

Except in the case of products used for rental purposes, the period of our defects warranty is as follows for our various products:

Tanks (non-diesel), excluding frames	25 Years
Steel frames	5 Years
Other TTI Manufactured Components	1 Year

If you make a claim under this warranty, we will consider it in good faith. If we agree that the products are covered by this warranty and are defective, we will either (at our option) repair or replace them without charge to you.

## What we will do if you make a claim under this warranty

If you make a claim under this warranty, we will consider it in good faith. If we agree that the products are covered by this warranty and are defective, we will either (at our option) repair or replace them without charge to you.



## What you must do (and not do) to entitle you to a claim under this warranty

You must be able to provide proof of purchase, either by providing details of your warranty registration or a purchase receipt.

You must not repair or modify (or allow the repair or modification of) the products without prior authorisation from us. Further, you must not use any non-genuine parts with the products. Doing any of these things will void this defects warranty.

## How to make a claim under this warranty

If you believe that you have a claim under this warranty, please contact your reseller, or contact us using the following details:

<b>Name:</b>	<b>Trans Tank International</b>
<b>Postal Address:</b>	<b>PO Box 137 Nathalia, VIC, 3683</b>
<b>Physical Address:</b>	<b>Murray Valley Highway, Nathalia, VIC, 3638</b>
<b>Phone:</b>	<b>1800 816 277</b>
<b>Email:</b>	<b>ProductSupport@tti.com.au</b>

You must make the defective products available for inspection by returning them to us, and (if requested to do so) by making them available for inspection by us on site beforehand. You must ensure that the products are made safe for transportation and inspection, including by cleaning them thoroughly to remove any chemical residues. All returned products must be accompanied by a completed Return Goods Note. Please contact us using the details displayed above for a copy of this document.

## Who is responsible for expenses for claims made under this warranty

You are responsible for any expenses associated with the warranty claim, including transportation, charges made for service calls, and clean-up time.



**TransTank<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:

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Signature

Date

Quality Checked By:

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Signature

Date

**www.tti.com.au**