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## Rapid Ball Baffle System Operator's Handbook



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# Introduction

**Congratulations on your purchase of a Rapid Spray Ball Baffle System** which cut down liquid movement inside any transport tank, resulting in improved vehicle stability, better braking control and reduced wear and tear on drive train, brakes and suspension systems. Food grade quality material suitable for potable water, ball baffles can be used with water, diesel and other liquids.

READ YOUR OPERATOR'S HANDBOOK CAREFULLY BEFORE INSTALLING AND USING YOUR BALL BAFFLE SYSTEM.

KEEP YOUR HANDBOOK IN A SAFE PLACE.

## Warnings

1. 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, work place health and safety legislation and codes of practice.

3. WHS requirements for working at heights must be complied with as applicable.
4. Personal Protection Equipment must be worn if required.
5. Tank is a confined space. Ensure compliance with WHS requirements if entering tank.
6. When operating a vehicle/tank combination fitted with Ball Baffles it will improve vehicle stability particularly with partial loads. The Ball Baffle System is not a substitute for driver/operator training, skill, experience or responsibility to drive safely at all times and in all environments
7. You must be in good mental health and not be under the influence of alcohol or any drugs that could impair your vision, physical strength, dexterity, judgement, or other mental capacity.

Product Risk Assessment

Task	Hazards	Risk	Control Measures
1. Ensure liquid cartage tank is mounted correctly and securely on the vehicle. Do not overload vehicle beyond its allowable limit.	Load not secured; overload vehicle; manual handling; slips, trips or falls; fingers jammed; overhead powerlines-electricity.	Medium	Read/follow decals on tank; follow safe manual handling techniques; keep fingers clear; keep tank unit at least 8m away from any overhead powerlines; keep liquid away from electrical sources; make sure tank mounting complies with all relevant codes of practice and transport authority requirements.
2. Join & clip 2 half ball end pieces together to form the ball baffles needed, store them ready for placement safely & carefully inside the tank.	Manual handling; slips, trips or falls; fingers jammed.	Low	Follow safe manual handling techniques as above; keep work area clear as balls are assembled.
3. Climb onto the back of the truck, using any foot placements and hand rails provided.	Manual handling slips, trips or falls; falling from height.	Medium	Follow safe manual handling techniques as above; Use vehicle foot placements & hand rails to avoid falls.
4. Use a ladder or elevated work platform to reach the lid of the tank. Safely & carefully place the balls inside the tank. (Note: It is easier to load, if the tank is 20% full of liquid & the rear end of the tank is loaded first)	Manual handling; slips, trips or falls; falling from height.	High	Follow safe manual handling techniques as above; Wear non-slip footwear; Read & follow instructions on side of ladder to prevent falling; Fill tank to 20% & load rear of tank end first.
5. Fill the tank with the rest of the ball baffles and with liquids to suit. (Note: Drive vehicle a short distance to allow balls to evenly distribute, if needed, then complete total ball insertion).	Manual handling; slips, trips or falls; falling from height; use of chemicals.	Med	As above for 1. 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

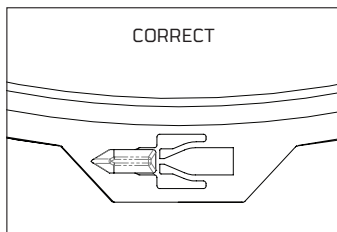
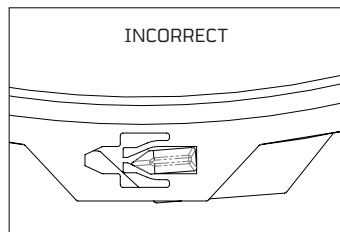
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Task	Hazards	Risk	Control Measures
6. Check that transport vehicle is safe before use, then drive off & use. When driving and using the water tank from a vehicle-take into account the sway of the water in the tank when driving.	As above for 1-5 where applicable; work in heat & cold; noise; strap/ chain breakage; hose entanglement; exhaust fumes; terrain & slopes.	High	As above; wear clothes to suit heat & cold; wear hearing protection if pump noise > 85 dBA; follow the manufacturer's safe operation instructions for the vehicle and the pump/spray unit; don't overload water weighs 1kg per 1 litre; secure load to vehicle; keep hose attachments tidy; only use experienced licensed liquid tank drivers and ensure they comply with state road driving rules.
7. Clean up, maintenance & storage of tank.	As above for 1-6 where applicable.	Low	As above; store tank in a dry, well ventilated area.

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## Assembly

- Line up male lugs with female side and push together
- Grasp outer edge of balls and twist both sides in opposing directions until they “click”
- Check clips to ensure correct assembly



## Installation

- ARB195mm are used on Rapid Spray Tanks with 255mm lid opening and ARB355mm in Rapid Spray tanks with 455mm lid opening
- Put Ball Baffle through access hole/lid in tank and place ball into tank. Start placing balls into the tank cavity furthest from access/lid hole
- Observe all applicable safety legislation, precautions and safe work procedures including working safely at heights when installing Ball Baffles
- When installation of balls is complete, place sticker on the side or end of your tank

# Ball Baffle Specifications



øARB195mm	
Small Ball Baffle	ARB195
Liquid Displacement	150ml
Weight	120 grams
Recommended Use Quantity	1 ball baffle per 7 litres of tank capacity



øARB355mm	
Large Ball Baffle	ARB355
Liquid Displacement	428ml
Weight	470 grams
Recommended Use Quantity	1 ball baffle per 40 litres of tank capacity



View through tank lid

- Tested and approved by Loadsafe Australia as complying with the Load Restraint Guide Performance Standards
- Independent transport engineers test report available.  
Call now for your free copy. 1800 011 000

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# Warranty

## Warranty Policies and Procedures

The following warranty is the only warranty applicable to RAPID SPRAY products, and to the maximum extent permitted by law, overrides any other conditions or warranties expressed or implied on RAPID SPRAY products.

Other than legislative obligations to the contrary, RAPID SPRAY will not be liable for and incidental or consequential damages arising from the ownership or use of a Product. No person, including any dealer or representative of RAPID SPRAY is authorized to make any representation or warranty on behalf of RAPID SPRAY in addition or inconsistent with these provisions. Purchasers to whom these provisions apply agree to hold RAPID SPRAY not liable for claims by their customers in excess of the obligations of RAPID SPRAY expressly set forth herein.

NOTE: All tank and spray systems must have their warranty activated by returning warranty card located at the end of this document within 21 days of purchase by the end user.

## The Warranty

These Ball Baffles are guaranteed for 12 months against material or manufacturing defects subject to the following conditions:

- The ball baffles have been used in accordance with the enclosed instructions
- Normal wear and tear is expressly excluded
- The balls have not been subject to neglect, abuse or irrational use
- Transport and consequential costs or losses are excluded



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The following things are expressly excluded from the above warranty.

Abuse	Failure as a result of neglect, such as improper operation. Lack of maintenance or continued operation after discovery of a defect that leads to further damage
Alterations	Any unauthorized alteration, modification, attachments or unauthorized repair to equipment.
Clean-Up Time	RAPID SPRAY does not pay for cleaning of products, parts or accessories or work area before or after the warranty repair.
Damage	Damages or machine/component failure caused by carelessness/recklessness or accidental damage, improper operation, excessive speed, inappropriate storage or transportation.
Environmental Conditions & Application	Deteriorated or failed components such as o-rings, diaphragms, hoses, seals and connections damaged by corrosive chemicals, dirt and sand, excessive heat, moisture or other environmental impacts. Warranty determination on these type of failures will be made by RAPID SPRAY, only after inspection of the failed component.
Inability   Unsuitability	In no event shall RAPID SPRAY be liable to any person for indirect or consequential damages or for injury or commercial loss resulting from any use or inability to use any RAPID SPRAY product.
Maintenance	Component failure due to failure to perform maintenance services such as, oil and grease changes/ top-ups, failure to clean tanks, pumps filters, nozzles and spray lines. Failure to tighten or replace loose or missing bolts, nuts, fittings, shields and covers.
Non-Genuine Parts	Use of parts other than RAPID SPRAY parts for repair of warranted items will automatically negate any warranty. Warranted components must be replaced with genuine parts.

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Registering your warranty couldn't be easier!

# Warranty Registration

You can register online at [www.rapidspray.net/warranty-registration](http://www.rapidspray.net/warranty-registration) or complete all the details below and post this form back to:

**Rapid Spray, PO Box 3119, Singleton NSW 2330**

Model ..... Serial No .....

Purchased From .....  
(Dealer Name & Town)

Purchaser's Name .....

Purchaser's Address .....  
.....

Purchaser's Phone Number .....

Disclaimer: If you don't want us to keep you informed of new products, please tick this circle ☐

**To help us help you further, please complete the following:**

**Purchaser's Age**

- ☐ Up to 25
- ☐ 25 – 40
- ☐ 41 – 55
- ☐ Over 55

**Principle Usage**

- ☐ Commercial farm
- ☐ Hobby farm
- ☐ Industrial
- ☐ Other .....
- ☐ Town council
- ☐ Hire company
- ☐ Home

**What influenced you to purchase a Rapid Spray product?**

- ☐ Catalogue received
- ☐ Newspaper advertisement
- ☐ Magazine advertisement
- ☐ Dealer recommendation
- ☐ Friend's recommendation
- ☐ Better features than other competitors
- ☐ Quality & reliability
- ☐ Price
- ☐ Past experience with Rapid Spray products
- ☐ Website

**What other Rapid Spray products do you use?**

- ☐ Spray tanks
- ☐ Cartage tanks
- ☐ Diesel tanks
- ☐ Fire fighters
- ☐ Boom sprayers
- ☐ Bertolini pumps & controllers
- ☐ Inter knapsacks | Compression sprayers
- ☐ Other .....







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Call us on 1800 011 000 or  
visit [www.rapidspray.net](http://www.rapidspray.net)

35 Enterprise Cres, Singleton NSW 2330  
PO Box 3119 Singleton NSW 2330  
[www.rapidspray.net](http://www.rapidspray.net)

Telephone 1800 011 000  
Facsimile 02 6571 2951

#### Rapid Spray Liquid Management Systems

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