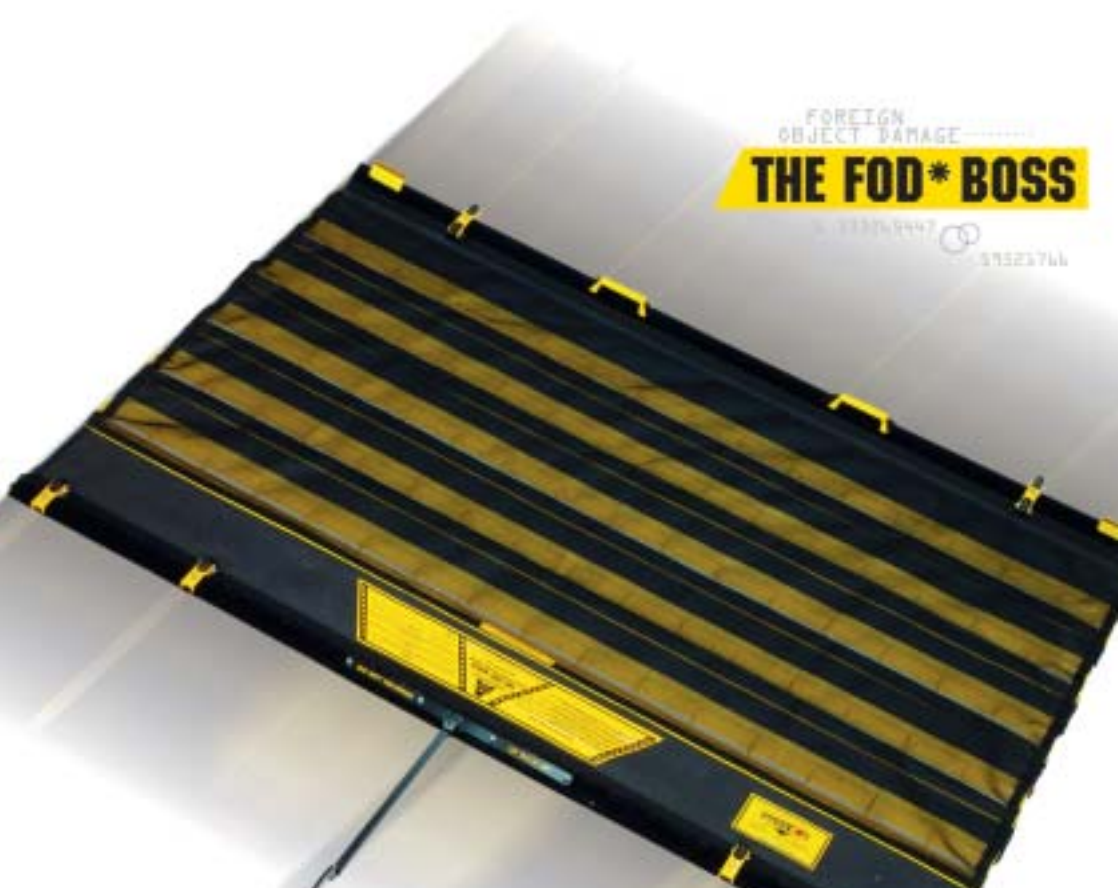


**AEROSWEEP**

SPEED SWEEPING SYSTEMS

# OPERATORS MANUAL



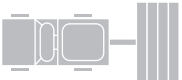
FOREIGN  
OBJECT DAMAGE

**THE FOD\* BOSS**

1. 113264447



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## SECTION 1 Installation of Tow Hitch and Sweeper

1. Review Sections 10 and 11 to identify the correct tow adaptors and fittings required for your vehicle and attach the tow hitch.
2. Adjust the height of the tow hitch so that the bottom of the hitch is approximately 10 cm (4") above the ground. Refer to notes below on towing heights.
3. To connect the tow handle, depress the retaining plate and slide the tow handle into the hitch release recess at the bottom of the tow hitch. (Make sure the instructions on the sweeper are face up and that the yellow shake handles are visible).

To disconnect, depress the retaining plate and slide the handle forward and out.

**WARNING** The hitch release is spring-loaded.

**CAUTION** Never use the sweeper without the tow hitch. Damage may result.

- **Towing height:** The tow hitch is designed for vehicles with towing heights within the range of 300 mm to 450 mm (12" to 18"). Vehicles with higher towing heights of up to 700 mm (28") will require a Hitch Extender (HD8-66) to enable the correct tow hitch height adjustment.

**NOTE:** The towing height is the distance from the pavement to the centre of the vehicle towing point.

## SECTION 2 Operation

**WARNING** • Prior to commencement of sweeping, it is essential to locate, remove, repair or avoid immovable or sharp projections in the pavement. Failure to do so may result in damage to the sweeper assembly. Do not operate without first thoroughly checking unfamiliar surfaces – **NEVER operate without the tow hitch.**

Tow the sweeper over the area to be cleaned. The operating speed range is 6 km/h (4 mph) to 40 km/h (25 mph). For maximum debris collection and service life, 15 km/h (10 mph) to 25 km/h (16 mph) is recommended.

If debris is collecting on top of the sweeper, increase to tow hitch height. If the sweeper mat is “flying” reduce the tow hitch height.

## IMPORTANT

To maximise service life and debris collection, it is important to empty the sweeper at regular intervals. Do not allow collected debris in the pockets to exceed one quarter full. Do not allow to overload. Overloading can be recognised when debris is seen to spill during operation.

The FOD\*BOSS is not designed to operate in reverse. **DO NOT BACK UP.**

### ■ Wearing in:

During the first few hours of operation the FOD\*BOSS will wear in. During this period the rate of wear to the underside of the collecting scoops may appear greater than expected. This is a normal wearing in process necessary for the FOD\*BOSS to attain the maximum degree of collection efficiency.

## CAUTION The FOD\*BOSS is suitable for all smooth surfaces and some rougher surfaces.

Coarse spray chip seal may cause damage and/or excessive wear and should be avoided.

**Technical Assistance** – If in doubt, please contact Aerosweep Assistance:

**Call:** +61 (0) 3 9894 2100 **Fax:** +61 (0) 3 9894 2743

**E-mail:** [info@aerosweep.com](mailto:info@aerosweep.com) or contact your local distributor.

## SECTION 3 Emptying

When emptying the sweeper, you can place the collected debris directly into a receptacle, or accumulate piles of the collected debris and remove them when you have finished sweeping.

When stopping, slow down smoothly to prevent forward spill of collected debris.

**NOTE:** The mesh cover is detachable to aid in the removal of debris such as wire that may become trapped in the pockets.

■ **To place debris directly into a receptacle:**

1. Lift the edge of the sweeper furthest from the vehicle by the yellow shake handles and shake out the debris. Loosely fold the sweeper forward of the debris shaken out.
2. Sweep up or vacuum collected debris and place into a receptacle.
3. Lay the sweeper flat again and continue sweeping.

■ **To accumulate collected debris for later removal:**

1. Lift the edge of the sweeper furthest from the vehicle by the yellow shake handles no more than 30 cm (1 ft) from the ground). (If you lift it higher, the debris may fall out.)
2. Carry the sweeper to the side so that it is at a right angle with the vehicle.
3. Raise the sweeper and shake out the debris.
4. Carry the sweeper to the other side of the vehicle so it is at a right angle. This prevents the sweeper from re-collecting any of the debris you have shaken out.
5. Continue sweeping, returning to the accumulation point to empty each time.
6. When sweeping is finished, sweep or vacuum up accumulated debris and place into a receptacle.

**IMPORTANT**

A thorough check of the pavement should always be conducted at the conclusion of each sweeping procedure.

**SECTION 4 Maintenance**

Cleaning is usually not necessary, but if required, wash the sweeper with water and a water-based detergent. The mesh cover is removable. When re-fitting start from the back.

**CAUTION** Do not use petroleum, spirit-based or caustic cleaning agents.

### ■ Tracking wheels:

Tracking wheels should be checked before each sweeping operation and any grit or sand removed to ensure free rotation. Wheels must be replaced when they are worn to a minimum thickness of 1 cm (3/8") measured to the under side of the wheel carrier.

### ■ Sweeper mat repair instructions:

Holes and tears in the mat backing may be repaired using the FOD\*BOSS repair webbing as follows:

1. Thoroughly clean the mat backing around the area to be repaired and allow to dry.
2. Cut enough webbing to cover the damaged area plus 25 mm (1") extra all around. Heat-seal the cut ends of the webbing.
3. Coat one side of the webbing and the corresponding area of the mat backing with a thin even film of Permatex Weatherstrip Adhesive (or recommended alternative).
4. Allow to dry until tacked-up. The length of time will depend upon atmospheric conditions and can be determined by placing a small section of the webbing against the mat backing. When the webbing is pulled away, strips of adhesive will be apparent. If no backing or holding power has developed, wait 5 minutes, re-checking every few minutes thereafter.
5. Press the webbing over the mat backing and work out any air bubbles.
6. Water contact with the adhesive should be prevented for 48 hours.

**WARNING** • Permatex Weatherstrip Adhesive is extremely flammable, harmful or fatal if swallowed. Vapour harmful. Contains Toluene, Methyl Ethyl Ketone, and Acetone.

**Keep away from children.**

Use in accordance with material safety data sheet.

■ Technical information is available from Aerosweep Assistance.

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## SECTION 5 Storage

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1. Make sure the sweeper is dry.
  2. Roll up the sweeper brush side out place in its carry bag.
  3. Store undercover, above 0° Celsius.
- 

### IMPORTANT

Should it be necessary to store the sweeper other than rolled up in the carry bag e.g. for drying out etc., then to prevent collection scoop distortion, it is important that the mat be kept right side up and FLAT. It may be folded concertina fashion but should be kept in a flat plane.

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## SECTION 6 Long-term storage

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Normal dry undercover warehouse storage is recommended.

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## SECTION 7 Transportation

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- The FOD\*BOSS should be rolled up and firmly secured inside the carry bag.
  - To transport, the FOD\*BOSS must be supported over the entire length to prevent bending.
  - Top loading is desirable.
-



## SECTION 8 Dimensions and weights

When stored dry in the carry bag, the FOD\*BOSS dimensions are approximately:

■ Length	2500 mm
■ Width	300 mm
■ Height	250 mm

Weight of the FOD\*BOSS and hardware:

■ FOD*BOSS (excluding tow hitch) packaged in shipping carton	31 kg
■ Tow Hitch	4.5 kg
■ Pintle Hook Adaptor	3 kg
■ Hitch Extender	1 kg
■ Duplex Hitch Bar	11 kg
■ Coupler Adaptor	4 kg
■ 50mm Tow Adaptor	1.5 kg

Shipping Dimensions:	FOD*BOSS	Tow Hitch / Hardware
■ Length	254 cm	49 cm
■ Width	32 cm	25 cm
■ Height	22 cm	22 cm

**NOTE:** If circumstances require storage when wet then weight may increase.

## SECTION 9 Pintle Hook Adaptor and Coupler Adaptor

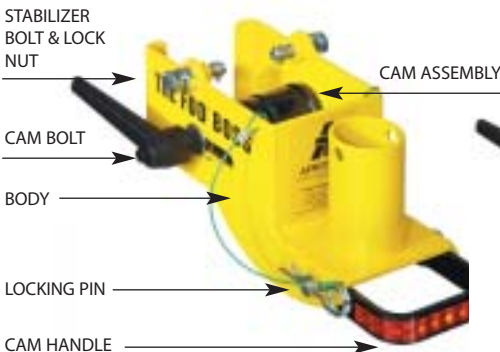
### Initial fitting instructions

1. Loosen the cam bolt allowing the cam handle to hang down. Fit the Pintle Hook Adaptor or Coupler Adaptor to the open hitch. Close the hitch and centralise the adaptor. Screw in the stabiliser bolts until just clear of the latch (Pintle Hook Adaptor only).
2. Hold the Pintle Hook Adaptor or Coupler Adaptor body firmly against the vehicle hitch mount. Allow the cam handle to hang down and slide the cam assembly securely against the inside of the pintle hook or coupler horn. Tighten the cam bolt firmly but not fully tight.
3. **With the locking pin in place** rotate the cam handle up to contact the underside of the locking pin. Tighten the cam bolt fully.
4. Remove the locking pin, pull the cam handle up and lock in place with the pin.
5. For Pintle Hook Adaptor only:-  
 Screw in the stabiliser bolts against each side of the latch then back off one turn. Tighten lock nuts.

The Adaptor can now be locked in place or removed quickly by rotating the cam handle up or down.

### PINTLE HOOK ADAPTOR (-67)

### COUPLER ADAPTOR (-80)



## SECTION 10 Common Tow Hitches



■ TOW BALL 50mm



■ PINTLE HOOK



■ COUPLER



■ RECEIVER 50mm SQUARE



■ GOOSE NECK 50mm



■ TOW PIN  
25/44 5mm

## Tow Adaptors/Hitch/Extender



■ GOOSE NECK  
ADAPTOR (-6)



■ BALL 50mm  
ADAPTOR (-7)



■ TUG 50mm ADAPTOR (-7T)



■ COUPLER ADAPTOR (-80)

■ PINTLE HOOK ADAPTOR (-67)

■ REDUCER 50-25mm (-9)

■ REDUCER  
50-44.45mm (-8)



■ HITCH ASSEMBLY (-1)



■ SQUARE 50mm  
ADAPTOR (-5)

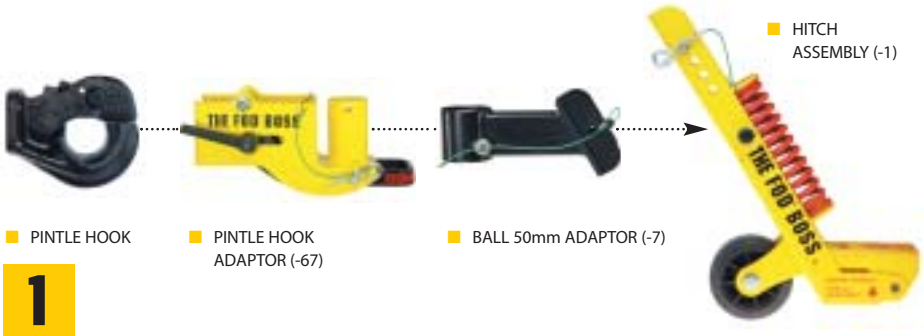


■ HITCH LIFTER (-79)

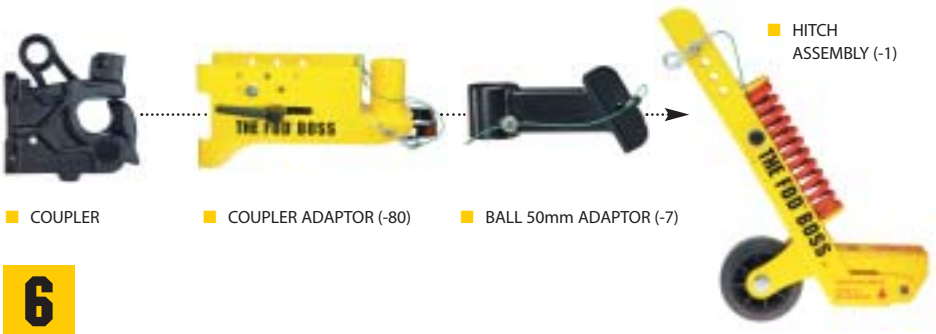


■ HITCH EXTENDER  
300mm (-66)

## SECTION 11 Tow Adaptors required for single operation



## SECTION 11 Tow Adaptors required for single operation



## SECTION 12 **Tow Adaptors required for single operation**

DASH	QTY	PAGE	DESCRIPTION	
-40	1	19	Carry / Storage Bag	
-32	1	16	Mesh	
-10	1	11	ø12 Pin – Goose Neck Tow Adapter	For -6 Tow Adapter
-9	1	11	ø50 – ø25.4 Reducing Adapter	For 1" Tow Pin
-8	1	11	ø50 – ø44.5 Reducing Sleeve	For 1 3/4" Tow Pin
-7	1	11	Tow Adapter – ø50 Tow Ball	Suits 50 mm (2") Tow Ball
-6	1	11	Tow Adapter – Goose Neck Ball	Suits ø50 Swan Neck Ball
-5	1	11	Adapter – 50 mm Square	Suits 50 mm Square Mount
-2	1	16	Sweeper Assembly	Excludes Mesh
-1	1	15	Hitch Assembly	Excludes Tow Adapter
-0	1	16	Sweeping Assemblage	Complete System Excludes -55
-7T	1	11	Tug Adaptor	
-82	1	17	Triplex Trailer	
-81	1	16	Can Catcher	
-80	1	10	Coupler Adaptor	
-79	1	11	Hitch Lifter	
-78	1	20	Duplex Pintle Adaptor	
-67	1	10	Pintle Hook Adapter – Assembly	
-66	1	11	Hitch Extender	
-62	1	20	Duplex Bar	
-61	1	20	Duplex Hitch Tow Adapter	
-55	1	18	Transporter	Complete Assembly
-54	1	16	Sweeper Assembly, Mesh & Carry Bag	-2, -32 & -40

This product is subject to one or more of the following Patents or Patent Applications: Aust. Patent No. 628556, U.S. Patent No. 5284211, European Patent no: 0471689, Aust. and International Patent Application no: PCT/AU95/00629.

Aerosweep Pty Ltd have a constant research and development program in progress, therefore components and specifications are subject to change.



■ BALL 50mm ADAPTOR (-7T)



■ BALL 50mm ADAPTOR (-7)



■ GOOSE NECK ADAPTOR (-6)



■ SQUARE 50mm RECEIVER(-5)

## SECTION 13 Can Catcher / Triplex Operation

■ SWEEPER ASSEMBLY (-54)



■ SWEEPER ASSEMBLAGE (-0)  
WITH CAN CATCHER (-81)





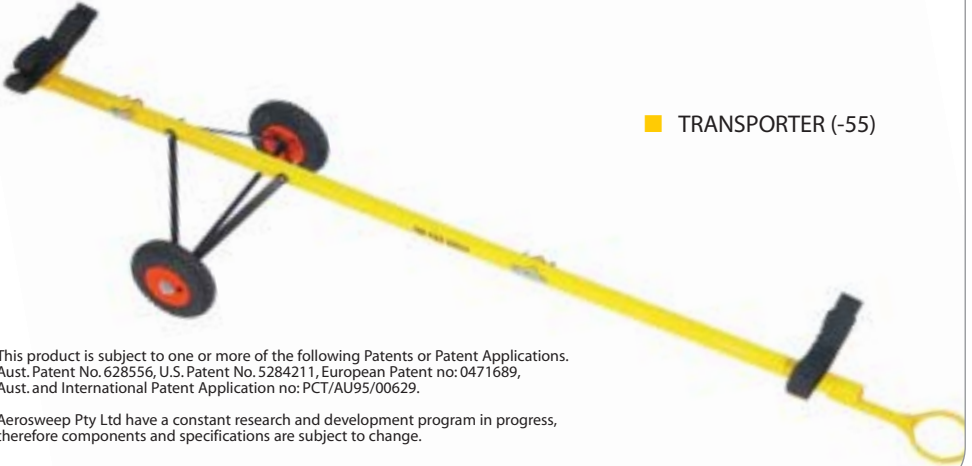
■ TRIPLEX TRAILER (-82) IN STORAGE POSITION



■ TRIPLEX TRAILER (-82)



## SECTION 14 **Transporter**



■ TRANSPORTER (-55)

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Aust. Patent No. 628556, U.S. Patent No. 5284211, European Patent no: 0471689,  
Aust. and International Patent Application no: PCT/AU95/00629.

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■ TRANSPORTER (-55)  
FOLDED

<b>ISSUE</b>	<b>E</b>	SPEED SWEEPING SYSTEM	DWG/No: <b>04501</b>
23/6/99		PAGE <b>18</b>	AEROSWEEP PTY LTD

■ CARRY/STORAGE BAG (-40)  
AND TRANSPORTER (-55)



■ CARRY/STORAGE BAG (-40)



## SECTION 15 Duplex Operation

### Vehicles with 50mm Square Tow Receiver

The Duplex Hitch Assembly (-57) fits to a standard 50mm square tow receiver. Tow Hitch Assemblies (-1) and two Tow Adaptors (-7) are required to attach to the Duplex Hitch Assembly.

### Vehicles with a Pintle Hook or Coupler

A Duplex Pintle Adaptor (-78) is used instead of the Square Tow Adaptor (-61)

■ DUPLEX HITCH TOW ADAPTOR (-67)



■ DUPLEX PINTLE ADAPTOR (-78)



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■ DUPLEX HITCH ASSEMBLY (-57)









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# OPERATORS MANUAL



**AEROSWEEP**

SPEED SWEEPING SYSTEMS

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A close-up photograph of a yellow mechanical component, likely part of a street sweeper. The component is a long, yellow metal arm with several circular holes. A red coiled spring is attached to the arm. A black wheel is visible at the bottom. The text 'THE FOD BOSS' is printed in large, bold, black letters on the yellow arm.

**THE FOD BOSS**