

THE FOD*BOSS

OPERATORS MANUAL



FOD*BOSS App



IOS

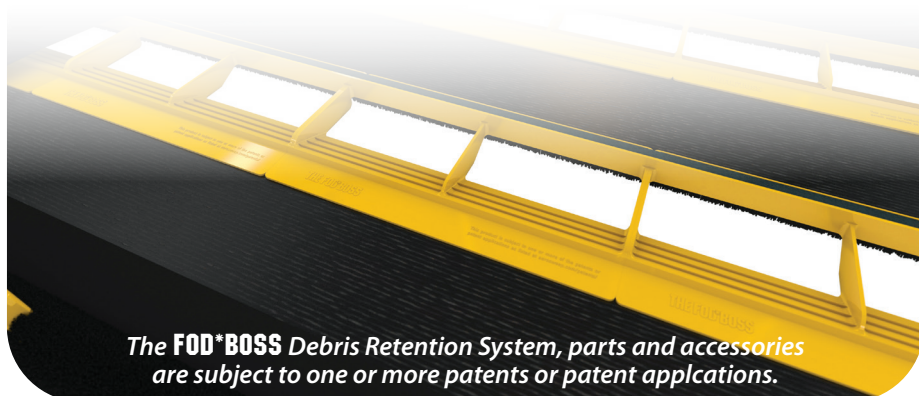


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*The **FOD*BOSS** Debris Retention System, parts and accessories are subject to one or more patents or patent applications.*

Getting to know your FOD*BOSS Sweeper

The **FOD*BOSS** is an extremely efficient, high speed, FOD (Foreign Object Debris) Sweeping system, however please read this manual before operating, and note the following precautions;

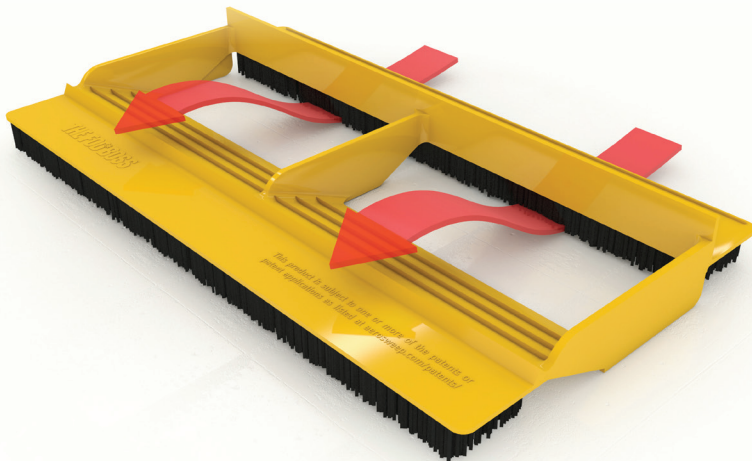
1. Do not rely upon The **FOD*BOSS** to remove 100% of debris, 100% of the time. Some FOD may remain even after use, and some areas may be missed by the operator. The **FOD*BOSS** is also not designed to collect large sized FOD which will not fit through the collecting blades. A thorough check of the pavement should always be conducted at the conclusion of each sweeping procedure.
2. The **FOD*BOSS** should be used with care around parked or moving aircraft, people, and other objects, especially in windy conditions. The **FOD*BOSS** can be subject to winds and drafts causing it to move and strike stationery or moving objects.
Observe all recommended safety measures and safe working distances that may apply.
3. A Retention Cable is available which retains The **FOD*BOSS** to the vehicle even if released by the Tow Hitch due to hitting an obstruction. When using this cable, and at all times, it is important to avoid areas with immovable obstructions as severe damage to The **FOD*BOSS** may occur.
4. Refer page 4 of this manual for installation instructions before using your **FOD*BOSS**.

Technical Assistance - If in doubt please contact Aerosweep Assistance:

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

Email: fodboss@aerosweep.com

Or contact your local distributor listed at www.fodboss.com/fodboss/distributors



THE FOD*BOSS - LIFE ASSESSMENT and RECOMMENDATIONS

The following recommendations are based upon more than 20 years of **FOD*BOSS** operational experience and comments from thousands of aviation customers throughout the world. Tarmac surfaces vary, operators have differing techniques, climatic conditions may have an effect.

The **FOD*BOSS** life can be compared to motor car tyres. For example, the way in which a vehicle is driven will have an effect on the tire's lifespan. If a motor vehicle is driven aggressively, the tires will wear at a faster rate than if it is driven with care.

An operator can prolong the life of the **FOD*BOSS** by following these recommendations.

1. Sweep within the recommended speed range of 10 and 40 KPH or 6 to 25mph.
** In some conditions higher speeds may be possible*
2. Empty the **FOD*BOSS** on a regular basis. This ensures that the sweeper is not overloaded.
3. Sweep often. Sweeping a clean tarmac creates less wear to the **FOD*BOSS** and is better for aircraft.
4. Where possible avoid sweeping very rough or damaged pavements.
5. Restrict sweeping to and around areas where aircraft operate under power.
6. Store the **FOD*BOSS** flat or carefully rolled up, under cover or in the carry bag at moderate temperatures i.e. between 0 and 40 degrees C.
Ensure the yellow segments are not distorted in any way.
7. Read and understand the Operators Manual.

When these recommendations are observed our clients achieve unmatched FOD sweeping efficiency.



Section 01 Installation of Tow Hitch and Sweeper

Installation instructions:

1. Review Sections 06, 07 & 08 to identify the correct tow adaptors and fittings required for your vehicle and attach the tow hitch (-01) or (-120).
2. Adjust the height of the tow hitch so that it is clear of the ground. Refer to notes below on towing heights.

WARNING

The Safety Release Tow Hitch (-01) is spring-loaded and should never be dismantled.

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.

IMPORTANT

When using the Safety Release Hitch (-01) a cable (-100) may be used to retain The **FOD*BOSS** to the vehicle even if it is released by the Tow Hitch due to hitting an obstruction. However, if using this cable, and at all times, avoid immovable obstructions as severe damage may occur.



Section 02 Operation

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.

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 OVERLOAD.

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 excessive wear and should be avoided.

Section 03 Emptying

1. With the **FOD*BOSS** connected to the tow vehicle, lift the edge of the sweeper furthest from the vehicle by the yellow shake handles and shake out the collected debris.
2. Carry the empty **FOD*BOSS** at right angles to one side of the vehicle and place flat on the pavement.
3. You may sweep or vacuum up the collected debris and place in a receptacle or:
4. You may drive on and return to the same accumulation point several times before sweeping or vacuuming up the collected debris.

NOTE: DO NOT remove the Mesh Cover to empty the FOD*BOSS. Only remove the Mesh Cover when necessary to aid in the removal of debris such as wire that may become trapped in the mesh capture zones. If the Mesh Cover is removed when wet and allowed to dry it may shrink, and be difficult to re-fit. Should this occur, soak the Mesh Cover in water for 30 minutes and re-fit while wet.

It is important that the velcro is pressed down firmly.

IMPORTANT

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



Section 04 Maintenance

Cleaning is usually not necessary, but if required wash the sweeper with water and a water-based detergent.

CAUTION

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

TRACKING WHEELS

Tracking wheels should be checked before and after 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 ASSEMBLY REPAIR INSTRUCTIONS:

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

1. Thoroughly clean the latex 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 latex 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 latex 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 latex 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.

Section 05 Storage

To ensure maximum life and efficiency of your **FOD*BOSS** always roll up tightly starting with the front, or handle end as follows:

1. Make sure the sweeper is dry.
2. Fold tow handle sideways and fold front panel, or remove handle using pushpin.
3. Continue folding toward the rear.
4. Once you reach the fourth row, fold the rear wheels forward.
5. Continue folding and place in carry bag.
6. Store undercover, above 0° Celsius.



■ CARRY / STORAGE/ ROLLER BAG (-40)

IMPORTANT

Should it be necessary to store the sweeper for drying out purposes, and not in its carry bag, it is important to prevent the collection blades from distortion by lying right side up and **FLAT**. It may be folded in a concertina style but kept on a flat plane.

Alternatively it may be hung using the **FOD*BOSS** Wall Hook (-129) as below that holds up to three units.



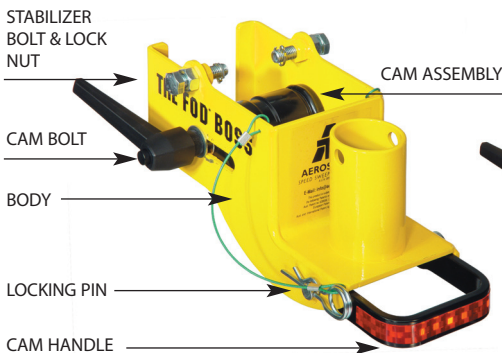
Section 06 Pintle Hook Adaptor and Coupler Adaptor

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.

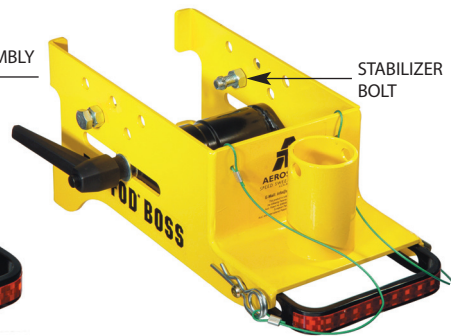
The Adaptor can now be locked in place or removed quickly by rotating the cam handle up or down.

PINTLE HOOK ADAPTOR (-67)



COUPLER ADAPTOR (-80)

NOTE: REPOSITION COUPLER ADAPTOR STABILIZER BOLT IF NECESSARY TO ENSURE ADAPTOR IS STABLE



Section 07 Groundforce Tow Hitch and fitting instructions

Tow adaptors required for single FOD*BOSS operation

01



■ PINTLE HOOK



■ PINTLE HOOK ADAPTOR (-67)

■ GROUNDFORCE TOW HITCH (-120) Ø50mm



02



■ TOW BALL 50MM

■ GROUNDFORCE TOW HITCH (-120) Ø50mm



03



■ GOOSE NECK 50MM



■ GOOSE NECK ADAPTOR (-125)

■ GROUNDFORCE TOW HITCH (-120) Ø50mm



Reducing sleeves can be fitted inside the coupler head to suit different Tow Pins.

04



■ TOW PIN/
E HITCH

■ REDUCER
50-25mm (-09)



■ REDUCER
50-44.45mm (-08)



■ GROUNDFORCE
TOW HITCH (-120) Ø50mm



05



■ COUPLER



■ COUPLER ADAPTOR (-80)

■ GROUNDFORCE
TOW HITCH (-120) Ø50mm



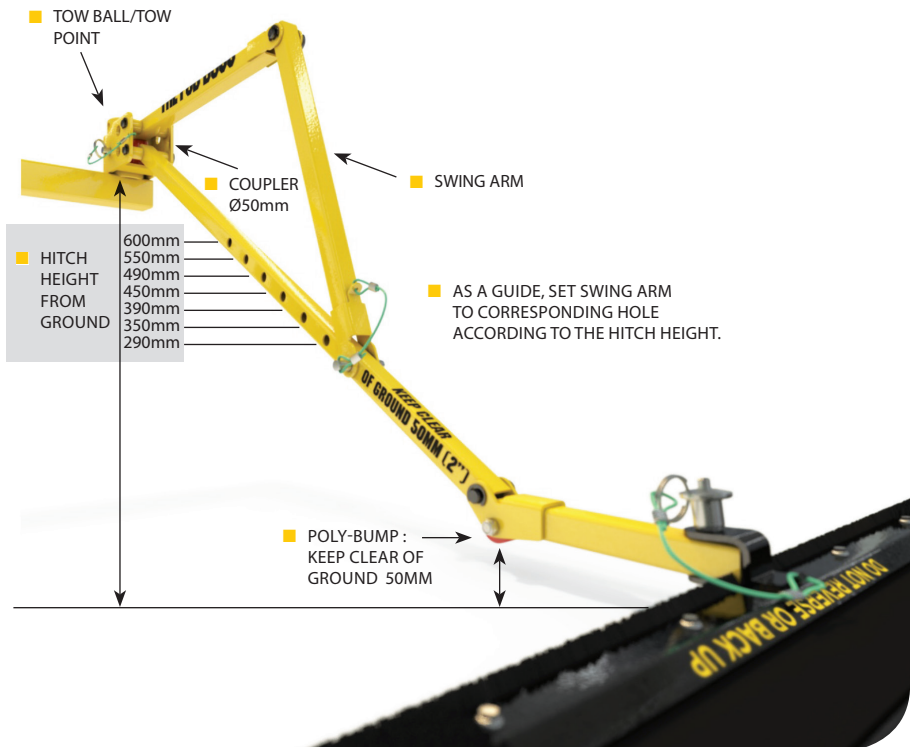
GROUNDFORCE™ Tow Hitch (-120) Ø50mm

The GROUNDFORCE™ Tow Hitch will hold your **FOD*BOSS** to the tarmac tracking straight behind the vehicle in windy conditions.

Fitting instructions:

1. Ensure the swing arm is unattached to the main towing arm.
2. Place your GROUNDFORCE™ Tow Hitch onto the vehicle tow ball or towing point.
3. Measure the hitch height from the ground as per below diagram.
4. Set the swing arm to the suggested corresponding hole. Important: This is a guide only, never force the swing arm into a position that may cause too much downward pressure on the equipment.

Note: The Poly-bump is not designed to run along the ground, however it may rest on the ground when fitting the hitch prior to the commencement of sweeping. It will automatically lift as the vehicle moves.



Section 08 Triplex Trailer (-82)

The Triplex Trailer allows operation of three **FOD*BOSS** Sweepers providing a sweep width of 7.3mtrs / 24ft.

IMPORTANT TOW HEIGHT SETTING FOR TRIPLEX / DUPLEX TRAILER

To avoid premature wear of the rear pivot wheel there must be down load on the rear wheel to ensure straight tracking. Please take the following steps to achieve the correct load.

1. With the trailer unhitched adjust the tow adaptor to be level with the tow ball or tow point of the vehicle which would result in a neutral load if hitched, i.e. no down or up load on the tow point.
2. Re-adjust the adaptor **down 3 holes** on the trailer. When hitched this will cause down load on the rear wheel of the trailer.
3. Observe the rear wheel when in use. It must track straight without fishtailing.



Triplex Trailer (-82) continued



The Triplex Trailer can be reduced to operate two **FOD*BOSS** Sweepers

Triplex Trailer seen here in transport / storage position



Triplex and Duplex Trailer Towing Options

COMMON TOW HITCHES



■ TOW BALL 50mm



■ PINTLE HOOK



■ COUPLER

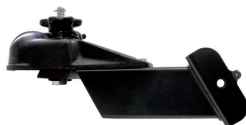


■ TOW PIN
25/44 5mm



■ GOOSE NECK 50mm

TRAILER ADAPTORS



■ TRAILER TOW BALL COUPLER 50mm
Part FB2400-102



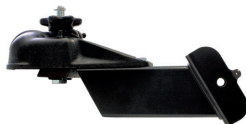
■ TRAILER TOW RING ADAPTOR
Part FB2400-48



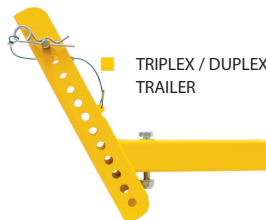
■ TRAILER TOW RING ADAPTOR
Part FB2400-48



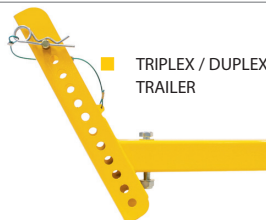
■ TRAILER TOW RING ADAPTOR
Part FB2400-48



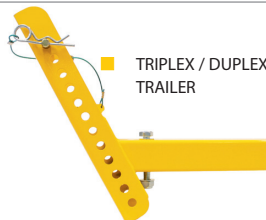
■ TRAILER TOW BALL COUPLER 50mm
Part FB2400-102



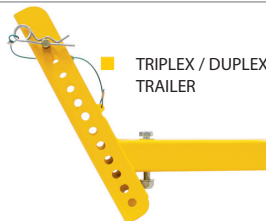
■ TRIPLEX / DUPLEX
TRAILER



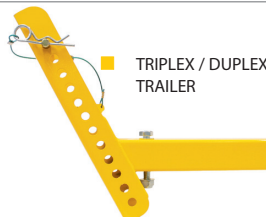
■ TRIPLEX / DUPLEX
TRAILER



■ TRIPLEX / DUPLEX
TRAILER



■ TRIPLEX / DUPLEX
TRAILER



■ TRIPLEX / DUPLEX
TRAILER

Section 09 Duplex Bar Operation

The Duplex Hitch System allows operation of two **FOD*BOSS** Sweepers side by side to provide a 4.8 m / 16ft sweep width.



THE DUPLEX HITCH BAR (-57) IS CONNECTED TO THE VEHICLE WITH THE FOLLOWING ALTERNATIVE ADAPTORS.

NOTE

This Duplex Bar is not suitable for European Gooseneck style Tow ball. See Section 11 for connecting to a Gooseneck Tow Ball.



- * Duplex Pintle Hook Adaptor (-78) connects to a (-67) Pintle Hook Adaptor or (-80) Coupler Adaptor



- * Duplex Hitch Square receiver (-61) connects to a 50mm square receiver



- * Duplex Tow ball Adaptor (-99) connects to 50mm Tow ball

Section 10 Duplex Trailer (-58) Operation

The Duplex Trailer allows operation of two **FOD*BOSS** Sweepers side by side to provide a 4.8m/16ft sweep width.

It can connect to any tow point including European Gooseneck style tow ball. See Section 9 for more information.



■ DUPLEX TRAILER (-58)

Section 11 FOD*BOSS Parts Catalogue



FOD*BOSS ULTIMATE
REPLACEMENT MAT
FB2400-00



FOD*BOSS PATRIOT
REPLACEMENT MAT
FB2400-00P



TRACKING WHEEL
ASSEMBLY (FRONT)
FB2400-03



TRACKING WHEEL
ASSEMBLY (REAR)
FB2400-04



50mm SWAN NECK
TOW BALL ADAPTOR
FB2400-06



TUG ADAPTOR
Ø50mm/50mm HIGH
FB2400-7T



TUG ADAPTOR
Ø50mm/40mm HIGH
FB2400-07T40 T



TUG ADAPTOR
Ø50mm/44mm HIGH
FB2400-07T44



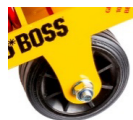
TUG ADAPTOR
Ø50mm/50mm HIGH
NO WASHERS
FB2400-07T50



HIGH PITCHER
50mm - 40mm
FB2400-08



HIGH PITCHER
50mm - 25mm
FB2400-09



BUMP WHEEL
FB2400-18



T HANDLE
FB2400-25



FOD*BOSS MESH
COVER
FB2400-32



TRACKING WHEEL
FB2400-37



CARRY STORAGE
ROLLER BAG
FB2400-40



FOD*BOSS CARRY
STRAP
FB2400-41



TRAILER TOW RING
FB2400-48



OPERATORS MANUAL
FB2400-56



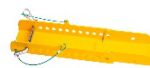
DUPLEX HITCH BAR
FB2400-57



DUPLEX TRAILER
FB2400-58



DUPLEX BAR SQUARE
RECEIVER (50MM)
FB2400-61



HITCH EXTENDER
FOR -01 HITCH
FB2400-66



FOD*BOSS Parts Catalogue continued



■ PINTLE HOOK
ADAPTOR
FB2400-67



■ DUPLEX PINTLE HOOK
ADAPTOR
FB2400-78



■ HITCH LIFTER
FB2400-79



■ COUPLER ADAPTOR
FB2400-80



■ CAN CATCHER
FB2400-81



■ TRIPLEX TRAILER/
TRANSPORTER
FB2400-82



■ TRIPLEX WHEEL AND
BRACKET - PIVOT
FB2400-83



■ TRIPLEX WHEEL AND
BRACKET - FIXED
FB2400-84



■ DUPLEX TOW BALL
ADAPTOR
FB2400-99



■ DUPLEX TOW BALL
ADAPTOR TO SUIT
WILSTOW HITCH
FB2400-99W



■ SAFETY RETENTION
CABLE
FB2400-100



■ TRIPLEX TRAILER TOW
BALL ADAPTOR
FB2400-102



■ CARRY STORAGE
ROLLER BAG WHEEL
KIT
FB2400-112



■ GROUNDFORCE
TOW HITCH FOR
50MM TOW BALL
FB2400-120



■ PATRIOT TOW HITCH
FOR 50MM TOW BALL
FB2400-120P



■ SWAN NECK ADAPTOR
FB2400-125



■ TUG ADAPTOR
FB2400-126



■ GROUNDFORCE TOW
HITCH QUICK RELEASE PIN
FB2400-128



■ HANG BRACKET
1, 2, 3, SWEEPERS
FB2400-129



■ FOD*BOSS USB CHARGER
FB2400-US8



■ TRIPLEX WHEEL/
DUPLEX
FB2400-10



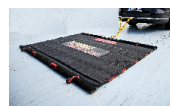
■ TRIPLEX/DUPLEX
TYRE
FB2400-11



■ FOD*BOSS LOGO GLOVES
FB2400-12



■ FOD*BOSS TRACKSWEEP
REPLACEMENT MAT
FB2400-0



■ FOD*BOSS TRACKSWEEP
GROUND FORCE TOW
HITCH, CARRY STRAP
FB2400-S41

FOD*BOSS Parts Catalogue continued



■ **FOD*BOSS PATRIOT SINGLE SYSTEM**
FOD*BOSS PATRIOT SWEEPER
FOD*BOSS HITCH, CARRY STRAP
 FB2400-OGFP



■ **FOD*BOSS PATRIOT DUPLEX BAR SYSTEM**
X2 FOD*BOSS PATRIOT SWEEPERS,
X2 FOD*BOSS HITCHES, DUPLEX BAR, - 99 TOW BALL
ADAPTOR, X2 CARRY STRAPS
 FB2400-57DPXP



■ **FOD*BOSS PATRIOT DUPLEX TRAILER SYSTEM**
X2 FOD*BOSS PATRIOT SWEEPERS
X2 FOD*BOSS HITCHES, DUPLEX TRAILER, X2 CARRY
STRAPS
 FB2400-58DPXP



■ **FOD*BOSS PATRIOT DUPLEX TRIPLEX TRAILER SYSTEM**
X3 FOD*BOSS PATRIOT SWEEPERS,
X3 FOD*BOSS HITCHES, TRIPLEX TRAILER/TRANSPORTER
X3 CARRY STRAPS
 FB2400-82TPXP



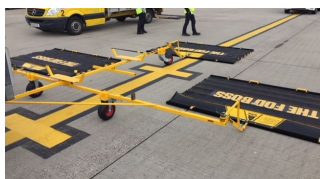
■ **FOD*BOSS ULTIMATE SINGLE SYSTEM**
FOD*BOSS ULTIMATE SWEEPER,
FOD*BOSS GROUNDFORCE TOW HITCH, CARRY
STRAP
 FB2400-OGF



■ **FOD*BOSS ULTIMATE DUPLEX BAR SYSTEM**
X2 FOD*BOSS ULTIMATE SWEEPERS,
X2 FOD*BOSS GROUNDFORCE TOW HITCHES, DUPLEX
BAR, - 99 TOW BALL ADAPTOR, X2 CARRY STRAPS
 FB2400-57DPX



■ **FOD*BOSS ULTIMATE DUPLEX TRAILER SYSTEM**
X2 FOD*BOSS ULTIMATE SWEEPERS,
X2 FOD*BOSS GROUNDFORCE TOW HITCHES, DUPLEX
TRAILER, X2 CARRY STRAPS
 FB2400-58DPX



■ **FOD*BOSS ULTIMATE TRIPLEX TRAILER SYSTEM**
X3 FOD*BOSS ULTIMATE SWEEPERS,
X3 FOD*BOSS GROUNDFORCE TOW HITCHES, TRIPLEX
TRAILER/TRANSPORTER, X3 CARRY STRAPS
 FB2400-82TPX



Section 12 FOD*BOSS Sweep Tracking App

Free, easy to use, increases efficiency, logs data

Track and log your **FOD*BOSS** sweeping operations with the new **FOD*BOSS Sweep Tracker IOS and Android App**.

The ultimate **FOD*BOSS** App uses GPS technology to track your **FOD Sweep**.

Watch the **FOD Sweep** live to increase efficiency of **FOD** collection.



How does it work?

FOD*BOSS Select either Single, Duplex, Triplex **FOD*BOSS Sweep** or **FOD WALK** option

FOD*BOSS Calculates distance Swept

FOD*BOSS Calculates area covered

FOD*BOSS Records time, date, who has swept, distance and area covered and debris collected with a secure login

FOD*BOSS Compare and monitor **FOD Sweeps** within the History function on the phone or on-line

FOD*BOSS Share information with others in your network or opt to make information public



DOWNLOAD OUR FREE APP TODAY!

Search '**FOD*BOSS**' in your App store or click below

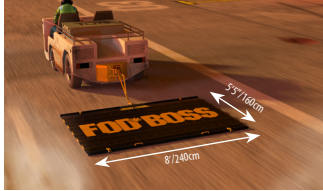


www.fodboss.com



Section 13 FOD*BOSS Weights and Dimensions

Configuration	Imp/Met	Sweep Width	Assembled	Rolled Up	Boxed	Weight
Single FOD*BOSS	Imperial	8'	8' x 5'5" x 2"	8' x Ø 12"	(x1) 8'3" x 14" x 10"	77lb
	Metric	240cm	240cm x 168cm x 5cm	240cm x Ø 30cm	(x1) 250cm x 35cm x 25cm	35kg



Configuration	Imp/Met	Sweep Width	Assembled	Rolled Up	Boxed	Weight
Duplex FOD*BOSS	Imperial	16'	16' x 5'5" x 2"	(x2) 8' x Ø 12"	(x1) 8'3" x 14" x 10'	101lb
					(x1) 8'3" x 14" x 10'	77lb
	Metric	480cm	480cm x 168cm x 5cm	(x2) 240cm x Ø 30cm	(x1) 250cm x 35cm x 25cm	46kg
						35kg



Configuration	Imp/Met	Sweep Width	Assembled	Rolled Up	Boxed	Weight
Triplex FOD*BOSS	Imperial	24'	24' x 22" x 2"	(x3) 8' x Ø 12"	(x3) 8'3" x 14" x 10'	77lb
					(x1) 8'3" x 14" x 10'	95lb
					(x1) 4'2" x 14" x 10"	50lb
	Metric	730cm	730cm x 670cm x 5cm	(x3) 240cm x Ø 30cm	(x3) 250cm x 35cm x 25cm	35kg
					(x1) 250cm x 35cm x 25cm	43kg
					(x1) 117cm x 35cm x 25cm	23kg



*Please note weights and dimensions are estimates and could vary due to product upgrade

For more information contact info@aerosweep.com or visit www.fodboss.com



This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.



This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Section 14 Log / Notes

OPERATORS MANUAL



www.fodboss.com

