TracSweep®

OPERATOR'S MANUAL

2020 Revised Edition

THE FOD CONTROL CORPORATION

www.fodcontrol.com

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BEFORE YOU GET STARTED...

CONGRATULATIONS ON YOUR PURCHASE OF A TRACSWEEP® SWEEPER.

Make runway and ramp sweeping a breeze with this compact and efficient rotary-brush airport runway sweeper. Quickly and efficiently remove sand, rocks, metal parts, chipped concrete, and other ferrous and non-ferrous objects from your FOD-sensitive operating environment.

Your FOD removal costs drop dramatically when you hook up one of traction-driven **TracSweep®** to your flight line vehicle, turning it into a powerful sweeping machine. Simplicity, exceptional build quality, and ease of use combine to provide the absolute best value in a mechanical runway sweeper.

- **Ultra-Durable Nylon brush**
- **Adjustable sweeping height**
- **Detachable tow bar**
- **Pintle-Hook and Tow-Ball hitch options**
- **Optional power bar magnetic sweeper attachment for ferrous FOD.**

BEFORE YOU GET STARTED...

THE TRACSWEEP® IS DESIGNED TO:

- Sweep at speeds of 10 to 15 mph (16 to 24kph).
- Pick up larger objects (e.g. pavement chunks, maintenance debris, ramp litter).
- Collect 40 to 60 lbs (18 to 27 kgs) of FOD per removable debris hopper.

THE TRACSWEEP® IS NOT DESIGNED TO:

- Collect 100% of small FOD object.
- Collect large amounts of sand and other fine particle debris efficiently.
- Operate on snow or unpaved soil.

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Section 1

ATTACHING THE TRACSWEEP® TO A VEHICLE

The TracSweep® comes equipped with an adjustable hitch adapter that supports military-style **Pintle Hook** or **Tow-Ball hitches** (meets DOD specs).

Lunette (for Pintle-Hooks)

Tow-Ball Adapter

The adapter provides a range of vertical displacement up to 10 in (25 cm) to accomodate high or low bumpers.

TracSweep® FBR-4 Mini Sweep Assembly

The FBR-4 is our most compact and economical rotary sweeper model, ideal for narrower tracks or smaller towing vehicles. This model uses a single rotary brush to deposit FOD into two easily accessible side-mounted steel debris hoppers, each capable of holding 40-60 lb (18-27 kg) of debris.

Empty weight: 460 lb (207 kg)

Weight of optional M-54 magnet: 55 lb (25 kg)

Sweeping path: 3'8" (1.12 m)

Unit dimensions: L: 8'4" (2.81 m), W: 6'3" (1.91 m)

Total collection capacity: 80-120 lb (36-54 kg), depending on type of debris

TracSweep® FBR-8 Doubleplay Assembly

The FBR-8 offers twice the collection capacity and effective sweeping path of the FBR-4, making use of two rotary brushes plus an additional triangle-shaped center brush to capture FOD in the gap between the rotary brushes. Each of the unit's four side-mounted steel debris hoppers can hold 40-60 lb (18-27kg) of debris.

Empty weight: 780 lb (353 kg)

Weight of optional M-103 magnet: 90 lb (40 kg)

Sweeping path: 7'8" in (2.34 m)

Unit dimensions: L: 10'4" (3.15 m), W: 10'0" (3.05 m)

Total collection capacity: 160-240 lb (73-109 kg), depending on type of debris.

TracSweep® FBR-11 Standard Tri-Link Assembly

The FBR-11 is composed of three FBR-4 units attached in triangular formation for triple the collection capacity, with a total of six side-mounted debris hoppers (two per unit). This modular assembly also allows each unit to be used individually so multiple jobs may be performed at once.

Empty weight: 1425 lb (641 kg) including connector assembly

Weight of optional M-54 magnets: 55 lb (25 kg) per magnet

Sweeping path: 11'8" (3.56 m)

Unit dimensions: L: 14'3" (4.34 m), W: 19'10" (6.05 m)

Total collection capacity: 240-360 lb (109-163 kg), depending on type of debris.

TracSweep® FBR-22 Super Tri-Link Assembly

The FBR-22 is our largest rotary sweeper system. Composed of three FBR-8 units, this assembly combines six rotary brushes and twelve side-mounted debris hoppers for maximum FOD uptake. This modular assembly also allows for each unit to be used individually, to perform multiple jobs at once.

Empty weight: 2340 lb (1059 kg)

Weight of optional M-103 magnets: 90 lb (40 kg) per magnet

Sweeping path: 23'8" (7.21 m)

Unit dimensions: L: 21'6" (6.55 m), W: 26'4" (8.03 m)

Total collection capacity: 480-720 lb (218-327 kg), depending on type of debris

Section 2

SWEEPING WITH THE TRACSWEEP®

The TracSweep® is designed for simplicity and one-person operation. As you drive, FOD will be swept into the debris hoppers by the traction-powered rotary brush. Before sweeping, check the pavement for raised or sharp objects, such as tie-downs, that can snag and damage the unit. Avoid sweeping over these objects.

- **Attach the TracSweep® to the tow vehicle and ensure that the tongue jack is oriented and secured such that it is no longer in contact with the ground. *Note: the tongue jack is only intended for use when parked.***
- **Drive in straight lines, except when turning.**
- **Watch the edges of the unit to prevent gaps in your sweeping pattern.**
- **Drive at speeds between 5mph (8kph) and 15 mph (24kph). For best results, stay between 10 mph (16 kph) and 15 mph (24 kph).**
- **If debris is not being collected, adjust the height of the brush such that the bristles make light contact with the ground. Inspect the debris hoppers and empty them if full.**
- **If you need to turn the vehicle around, make a U-turn. Do not back up, as you may damage the sweeper.**

Section 3

MAINTENANCE

This sweeping unit has been produced with ease of maintenance and low cost of operation as key considerations in its design. If you have any feedback or suggested improvements, please send them to us at info@fodcontrol.com.

General Information

- **Lubricate more freqeuently in extremely wet or dusty conditions.**
- **Brush life span is normally 6000+ sweeping miles. Bristle length should equal or exceed 1.5 in (3.8 cm) for optimal perfomance.**
- **We recommend re-tightening all nuts, bolts, and other fasteners upon delivery, and every six months thereafter.**
- **Do not drive in reverse while towing the TracSweep® as this may damage the sweeper brush and dislodge the tensioner chain.**
- **All new operators should review and understand the instruction decal on top of the sweeper before use.**

Follow the instructions outlined below during regularly scheduled maintenance to keep the warranty in effect. Maintenance should be perfomed every 100 hours of use.

1. Apply general-purpose grease to the brush adjustment screw.

2. Apply general-purpose grease to the brush pivot arm.

3. Lubricate the mesh gears using open-gear lubricant.

4. Remove the gear cover and inspect the setscrews holding the mesh gears and the chain sprockets. Re-tighten as necessary.

5. **Apply general-purpose grease to the pillow blocks on the brush axle.**

6. **Inspect and reset the chain and belt tensioners. Lubricate the chain.**

Section 4

PART LIST - *FBR4*

PART LIST- *FBR4*

Item No.	Part Number	Description
1	FBR4-MFR-001	Main Frame Assembly
2	FBR4-TFR-001	Tow Frame Assembly
3	FBR4-DBR-001	Debris Tray Assembly
4	FBR4-AXA-001	Axle Assembly
5	FBR4-UBT-001	Axle U-Bolt
6	FBR4-UNT-001	U-Bolt Nut
7	FBR4-BFR-001	Brush Frame Assembly
8	FBR4-MBB-001	Mounted Ball Bearing
9	FBR4-BRS-001	Brush Assembly
10	FBR4-BPO-001	V-Belt Pulley
11	FBR4-GSH-001	Gear Shaft
12	FBR4-BPT-001	Gear V-Belt Pulley
13	FBR4-CSO-001	Gear Chain Sprocket
14	FBR4-CSP-001	Wheel Chain Sprocket
15	FBR4-TWH-001	Wheel and Tire Assembly
16	FBR4-PMP-001	Power Magnet Pin
17	FBR4-PBM-001	Power Bar Magnet Assembly
18	FBR4-BAP-001	Brush Adjuster Pin
19	FBR4-HTR-001	Handle Threaded Rod
20	FBR4-HNT-001	Handle Nut
21	FBR4-TPC-001	Top Cover
22	FBR4-HWS-001	Handle Washer
23	FBR4-BLT-001	V-Belt Tensioner
24	FBR4-CHT-001	Chain Tensioner

Item No.	Part Number	Description
25	FBR4-WTR-001	Wheel Threaded Rod
26	FBR4-WHS-001	Wheel Hub Stand
27	FBR4-MBS-001	Mounted Bearing Screw
28	FBR4-MBN-001	Mounted Bearing Nut
29	FBR4-MBW-001	Mounted Bearing Washer
30	FBR4-TMS-001	Tensioner Screw
31	FBR4-WHN-001	Wheel Sprocket Nut
32	FBR4-WHL-001	Wheel Assembly Locknut
33	FBR4-WSC-001	Wheel Screw
34	FBR4-RBB-001	Radial Ball Bearing
35	FBR4-SPG-001	Spur Gear
36	FBR4-GCV-001	Gear Cover
37	FBR4-CCV-001	Chain Cover
38	FBR4-CTW-001	Chain Tensioner Washer
39	FBR4-LNP-001	Lunette Pin
40	FBR4-DCP-001	Dust Cap
41	FBR4-WHP-001	Wheel Pin
42	FBR4-TJC-001	Tongue Jack
43	FBR4-RSF-001	Rubber Side Flap
44	FBR4-RFC-001	Rubber Flap Chain
45	FBR4-CRH-001	Crank Handle
46	FBR4-VBT-001	V-Belt
47	FBR4-RCH-001	Roller Chain

PART LIST- *FBR8*

PART LIST- *FBR8*

Item No.	Part Number	Description
1	FBR8-MFR-001	Main Frame Assembly
2	FBR8-TFR-001	Tow Frame Assembly
3	FBR8-DBR-001	Debris Tray Assembly (Right)
4	FBR8-DBL-001	Debris Tray Assembly (Left)
5	FBR8-AXA-001	Axle Assembly
6	FBR8-UBT-001	Axle U-Bolt
7	FBR8-UNT-001	U-Bolt Nut
8	FBR8-BFR-001	Brush Frame Assembly
9	FBR8-MBB-001	Mounted Ball Bearing
10	FBR8-BRS-001	Brush Assembly
11	FBR8-BPO-001	V-Belt Pulley
12	FBR8-GSH-001	Gear Shaft
13	FBR8-BPT-001	Gear V-Belt Pulley
14	FBR8-CSO-001	Gear Chain Sprocket
15	FBR8-CSP-001	Wheel Chain Sprocket
16	FBR8-TWH-001	Wheel and Tire Assembly
17	FBR8-PMP-001	Power Magnet Pin
18	FBR8-PBM-001	Power Bar Magnet Assembly
19	FBR8-HND-001	Crank Handle Assembly
20	FBR8-HTR-001	Handle Threaded Rod
21	FBR8-HNT-001	Handle Nut
22	FBR8-TPC-001	Top Cover (Left)
23	FBR8-TPC-001	Top Cover (Right)
24	FBR8-HHN-001	Handle Hex Nut
25	FBR8-HWS-001	Handle Washer
26	FBR8-BLT-001	V-Belt Tensioner
27	FBR8-CHT-001	Chain Tensioner

Item No.	Part Number	Description
28	FBR8-WTR-001	Wheel Threaded Rod
29	FBR8-WHS-001	Wheel Hub Stand
30	FBR8-MBS-001	Mounted Bearing Screw
31	FBR8-MBN-001	Mounted Bearing Nut
32	FBR8-MBW-001	Mounted Bearing Washer
33	FBR8-TMS-001	Tensioner Screw
34	FBR8-WHN-001	Wheel Sprocket Nut
35	FBR8-WHL-001	Wheel Assembly Locknut
36	FBR8-RBB-001	Radial Ball Bearing
37	FBR8-SPG-001	Spur Gear
38	FBR8-GCV-001	Gear Cover
39	FBR8-CCR-001	Chain Cover (Right)
40	FBR8-CCL-001	Chain Cover (Left)
41	FBR8-CTW-001	Chain Tensioner Washer
42	FBR8-LNP-001	Lunette Pin
43	FBR8-DCP-001	Dust Cap
44	FBR8-WHP-001	Wheel Pin
45	FBR8-TJC-001	Tongue Jack
46	FBR8-RSF-001	Rubber Side Flap
47	FBR8-RFC-001	Rubber Flap Chain
48	FBR8-CRH-001	Crank Handle
49	FBR8-TRS-001	Triangle Brush Screw
50	FBR8-TRI-001	Triangle Brush
51	FBR8-VBT-001	V-Belt (Right)
52	FBR8-VBL-001	V-Belt (Left)
53	FBR8-RCH-001	Roller Chain

PART LIST- *FBR11*

Item No.	Part Number	Description
1	FBR4-001	FBR4-001 Front
2	FBR4-001	FBR4-001 Rear
3	FBR11-TRJ-001	Tri-Link Joint
4	FBR11-TRJ-001	Tri-Link Joint
5	FBR11-DEC-001	Drawbar Eye Coupler
6	FBR11-DCS-001	Drawbar Coupler Screw
7	FBR11-DCL-001	Drawbar Coupler Locknut
8	FBR11-TJW-001	Triple Joint Washer
9	FBR11-TJS-001	Triple Joint Screw
10	FBR11-TJL-001	Triple Joint Locknut

PART LIST- *FBR22*

Item No.	Part Number	Description
1	FBR8-001	FBR8-001 Front
2	FBR8-001	FBR8-001 Rear
3	FBR22-DEC-001	Drawbar Eye Coupler
4	FBR22-TRJ-001	Tri-Link Joint
5	FBR22-DCS-001	Drawbar Coupler Screw
6	FBR22-DCL-001	Drawbar Coupler Locknut
7	FBR22-TRJ-001	Tri-Link Joint
8	FBR22-TJS-001	Triple Joint Screw
9	FBR22-TJW-001	Triple Joint Washer

NOTES

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