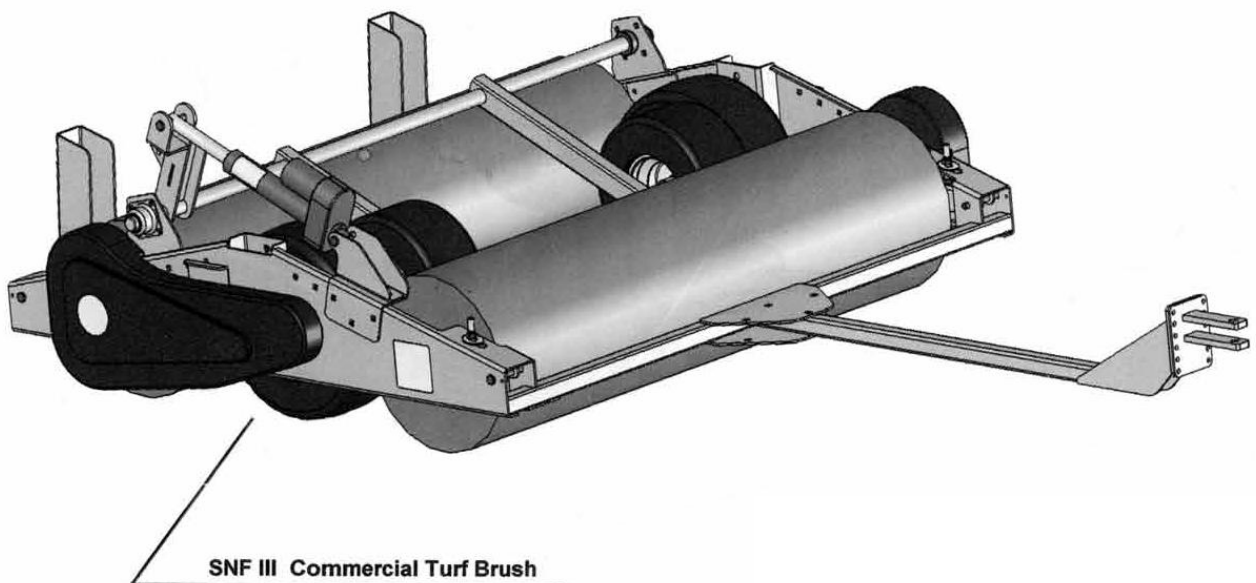


SWEEP N FILL III

User Manual





PAR WEST

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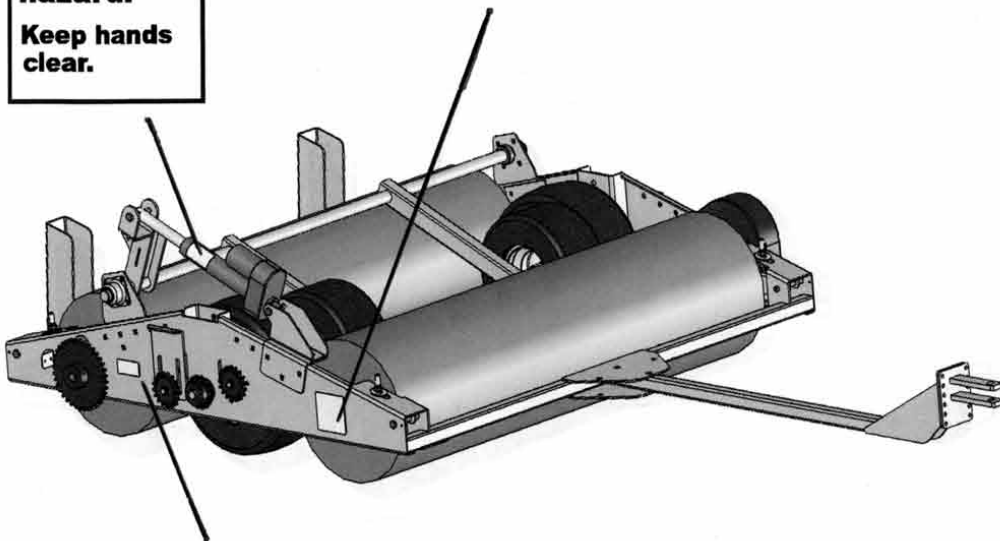
The Sweep N Fill Grooming Brush Introduction

- The Sweep N Fill is a tow-behind grooming brush with 2 counter-rotating cylinder brushes, which is used by groundskeepers to improve the playing quality and the growing environment of the turf on golf courses and sports fields.
- The Sweep N Fill may be towed behind a variety of lightweight utility vehicles or tractors commonly used for turf maintenance.
- The brushes are set in motion by a turf tire coming into contact with the ground which then drives a chain and sprocket assembly and turns the brush. Each brush is powered by its own drive tire.
- A 12 volt electric actuator is the device that raises and lowers the unit. As the drive tire lifts off the ground, the brushes stop turning- also when the tow vehicle stops, the brushes will stop turning.
- The Sweep N Fill has a variety of uses. As a 'groomer' the brush lifts the long laid-over grass blades upright so that can be cleanly mowed off. The brush is also used to incorporate topdressing materials into the turf canopy. The mechanical action of the brush places the topdressing deeper into the canopy so the materials are not removed in the next mowing operation, as is typical when using one of the 'static' or 'fixed' brooms that are on the market. Lastly, the brush is the preferred tool for backfilling topdressing materials into the holes left in the surface by core aerification or spiking procedures that are routinely used in turf maintenance.
- Only general maintenance is required by the operator including: keeping tires properly inflated; adjustment of the drive chains so that there is 1/2 to 1 inch of chain deflection at the midpoint between the sprockets, rinsing the unit after use so that the soil, sand, grass or fertilizer are removed from the unit. Store the unit so that bristles are not in contact with a floor, wall or anything that would distort the bristles.
- The Sweep n Fill is not intended to remove aerifier cores from a playing surface or to move large amounts of soil or sand over the turf.

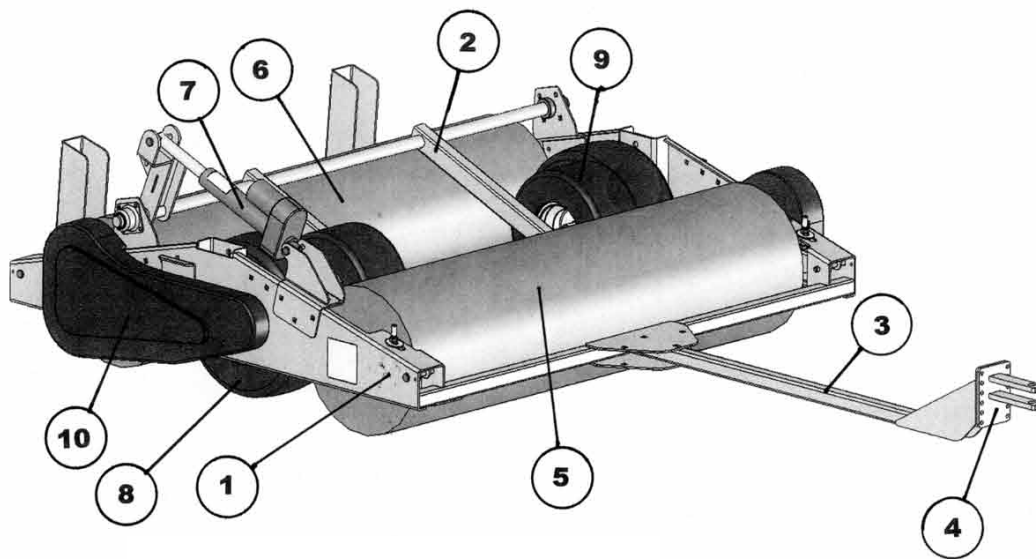
Identification Markings



SNF III Turf Brush		SERIAL 00501
Rated Voltage	12 vdc	
Rated Current	20 amp	
Total Weight		388 lbs / 176 kg
Maximum Operational Speed		5 mph / 8 km/h
Maximum Transport Speed		15 mph / 24 km/h
Tire Pressure		14 psi / 97 kPa
Fuse Spec.		25 amp Mini ATM Automotive
Dream Turf, LLC John Heitfield 1155 Donald Drive Greenville, Ohio 45331		937-417-3321 www.sweepnfill.com Manufactured in the USA 2012



Sweep N Fill III Major Component Description



- | | |
|----|---|
| 1 | Frame Assembly |
| 2 | Transport Axle Assembly |
| 3 | Tongue Assembly |
| 4 | Hitch |
| 5 | Front Brush Assembly |
| 6 | Rear Brush Assembly |
| 7 | Electroc (12 Volt) Actuator |
| 8 | Drove - Wheel / Tire Assembly (typical 2) |
| 9 | Transport - Wheel / Tire Assembly (typical 2) |
| 10 | Chain Guard Cover (typical 2) |
| 35 | Actuator Control Box (not shown) |
| 36 | Actuator Harness (not shown) |

Initial Sweep N Fill III Assembly Requirements

- 1 Assemble Tongue (#3) to Frame (#1) as shown using (2) 3/8-16 x 2 1/2" long carriage bolts with (2) 3/8 serrated lock nuts- Fully tighten (fig. 1)
- 2 Assemble Hitch (#4) to Tongue (#3) as shown using (4) 3/8- 16 x 1" long hex bolts with (4) 3/8 serrated lock nuts- do not tighten at the point (fig 1)
- 3 Connect Actuator Control Box (#35) to Actuator Harness (#36) as shown in (fig 1a)

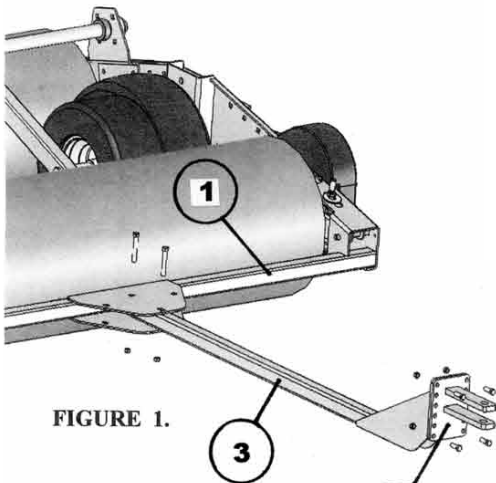


FIGURE 1.

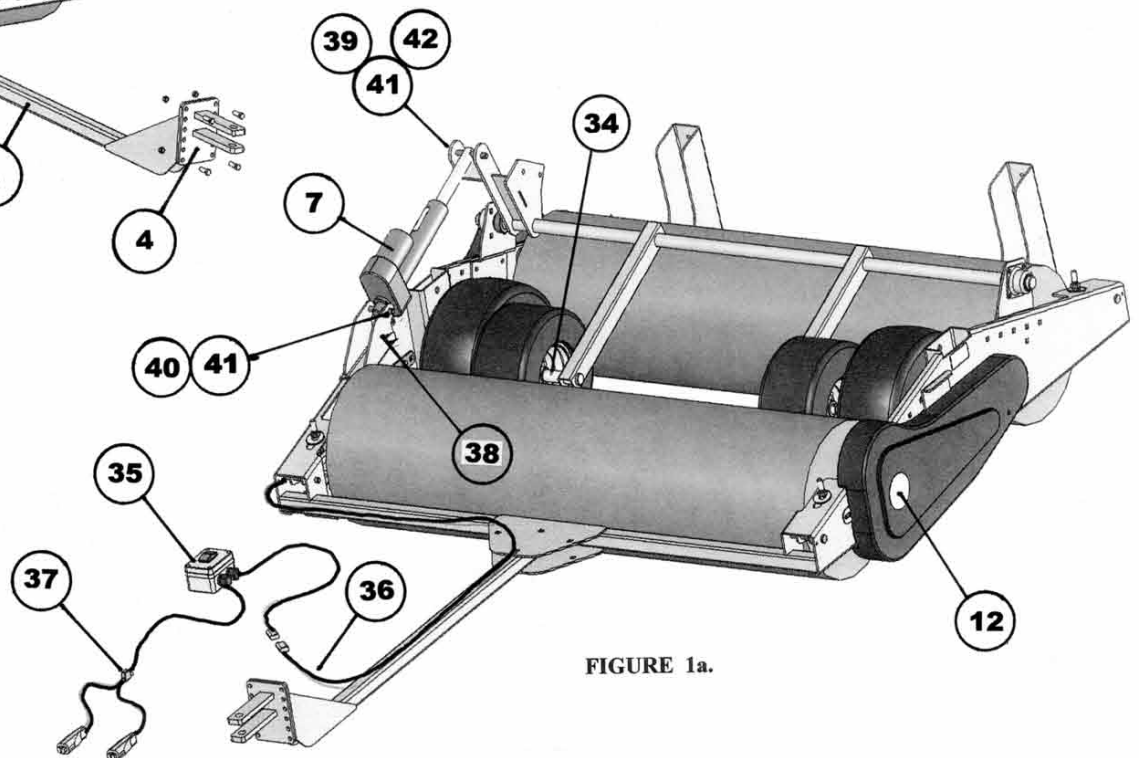
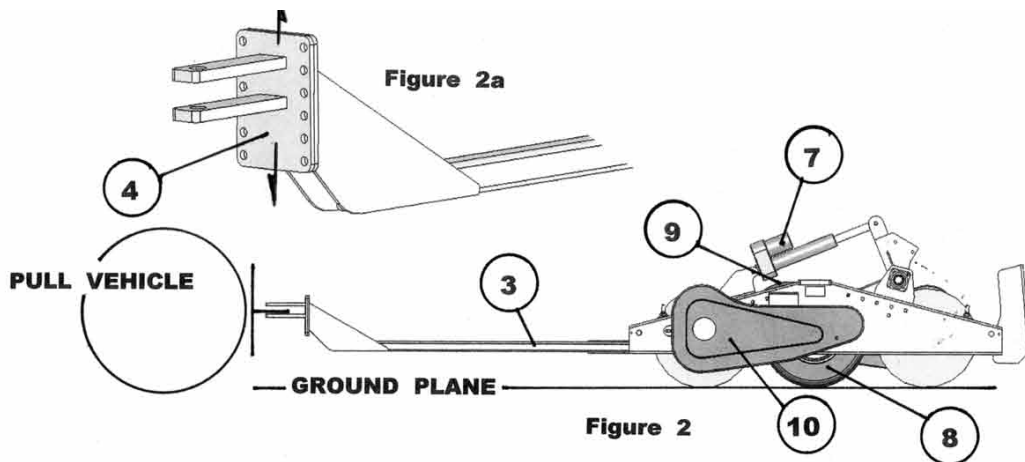


FIGURE 1a.

Initial Sweep N Fill III Setup Requirements



- 1 After initial assembly steps are completed position the SNF III on a level flat surface.
- 2 Attached the SNF III to the desired pull vehicle. Adjust Hitch (#4) up or down (fig. 2a) such that Tongue (#3) is parallel to the ground plane as shown in (fig. 2) Secure Hitch (#4) in the desired position and tighten bolts.
- 3 Connect the actuator control box battery clips to the pull vehicle battery.
- 4 **WARNING.. Ensure that all actuator control box wiring is properly routed so entanglement is prevented.**
- 5 Raise transport Wheels (#9) as shown in (fig. 2) such that the SNF III is resting on the Drive Wheels (#8)
- 6 NOTE: Actuator (#7) is fully extended
- 7 Adjust (4) brush height adjustments bolts leaving 1/8" to 1/4" space between washer and lock nut (fig 2b)
- 8 Remove both Chain guard covers (#10) and check chain tension. Chain shown have between 1/2" to 1" deflection at point "A" as shown in (fig. 2c) to get the desired chain deflection. Replace Chain Guard covers (#10)
- 9 **WARNING.. Never Operate SNF III With Chain Guard Covers Removed!**
- 8 Check tire pressure- inflate both Drive and Transport tires to 14psi. (97 kPa)
- 9 Always ensure that the SNF III is properly greased (see the maintenance section for lubrication points). For your convenience the SNF III has initially been fully greased in the factory.

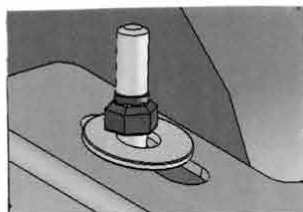


FIGURE 2b

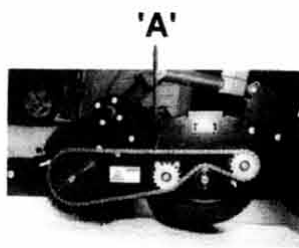


FIGURE 2c

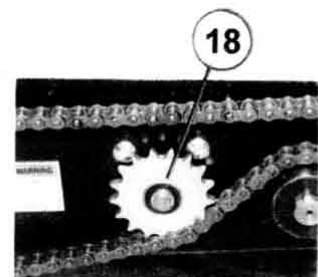


FIGURE 2d

Maintenance requirements / Suggestions

NOTE: Your SNF III has been designed for the need of minimal routine maintenance. If the following service points are periodically checked your SNF III will deliver years of trouble free service.

1. Periodically check for any loose hardware and tighten as necessary.
2. Always maintain a tire pressure of 14 PSI / 97kPa in both the Drive (#8) and Trailer (#9) tires.
3. After routine use, wash down to remove all debris buildup.
4. Periodically it is recommended to remove the chain guard cover (#10) and check for debris buildup..clean as required. At this time check the chain (#45) deflection and adjust as required per(fig. 2c). It is recommended not to grease the chain but instead apply a light coat of a dry silicone spray lubricant.. this will minimize dirt buildup on the chain drive components.

NOTE: REPLACE THE CHAIN GUARD COVERS AND NEVER OPERATE THE SNF III WITHOUT THE COVERS PROPERLY INSTALLED.

5. There are two points that require grease lubrication (fig 3a & 3b)
 - a. Trailer wheel hub / Spindle (#9 / 34)
 - b. Trailer axle pivot bearing (#20)

It is important to keep these points properly lubricated, however, always wipe away excess grease to prevent damage to surfaces being groomed.
6. It is recommended to store the SNF III inside, However, this may not always be possible.. at lease disconnect the control box harness and store inside.
7. If the actuator (#7) fails to function check the following:
 - that the battery connections are securely attached.
 - that the harness wiring has not been damage
 - all harness connections are securely connected and corrosion free
 - check fuse (#37) if blown, replace with 25 amp standard mini automotive fuse.

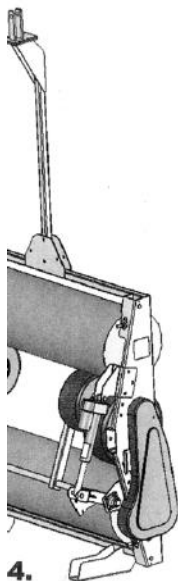
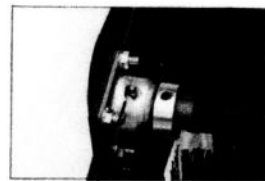


Figure 3a



GREASE

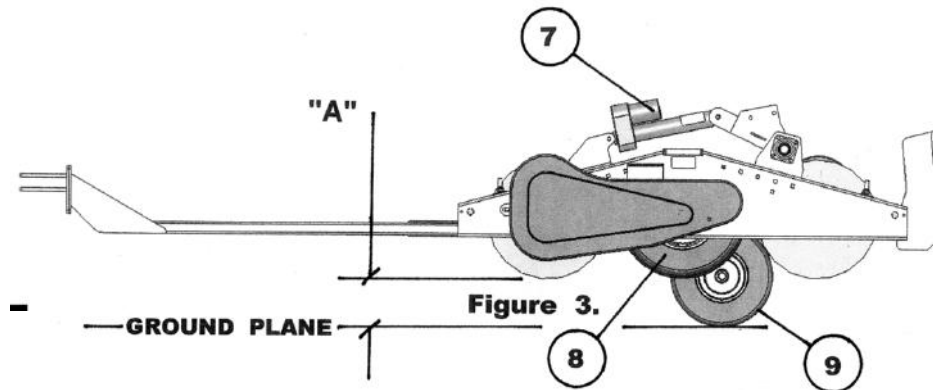
Figure 3b



GREASE

Transporting Sweep N Fill III

1. When transporting the SNF III from one grooming location to the next, it is recommended to always raise the SNF III by fully retracting the Actuator (#7). This will raise the Drive Wheels (#8) off the ground and lower the transport Wheels (#9) as shown in (fig 3). By doing this when transporting the brush life will significantly increased.
2. **WARNING: The SNF III is not designed for highway towing! The recommended maximum transport speed is 15 mph/ 24/ kmh**



Storage Recommendations

1. It is recommended to always store the SNF III inside to prevent weather damage. When not possible, at a minimum disconnect the Actuator Control Box (#35) and store inside.
2. The SNF III has built in storage stands on the rear of the machine which allows for vertical storage as shown in (fig. 4)

WARNING: Use caution when raising and lowering the SNF III. It is heavy.. ask fro assistance.

3. The SNF III is heavy (176kgs) and must be stored against a wall and secured with appropriate straps and chains.
4. If possible, store the SNF III out of direct sunlight. Constant exposure to ultraviolet light will deteriorate the brush fibres after a period of time.

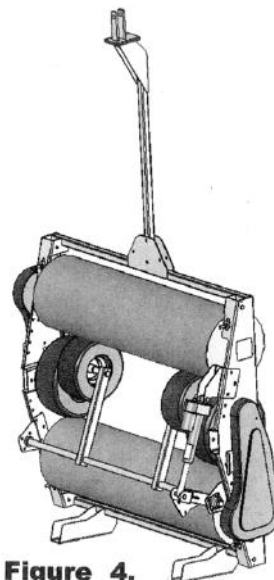
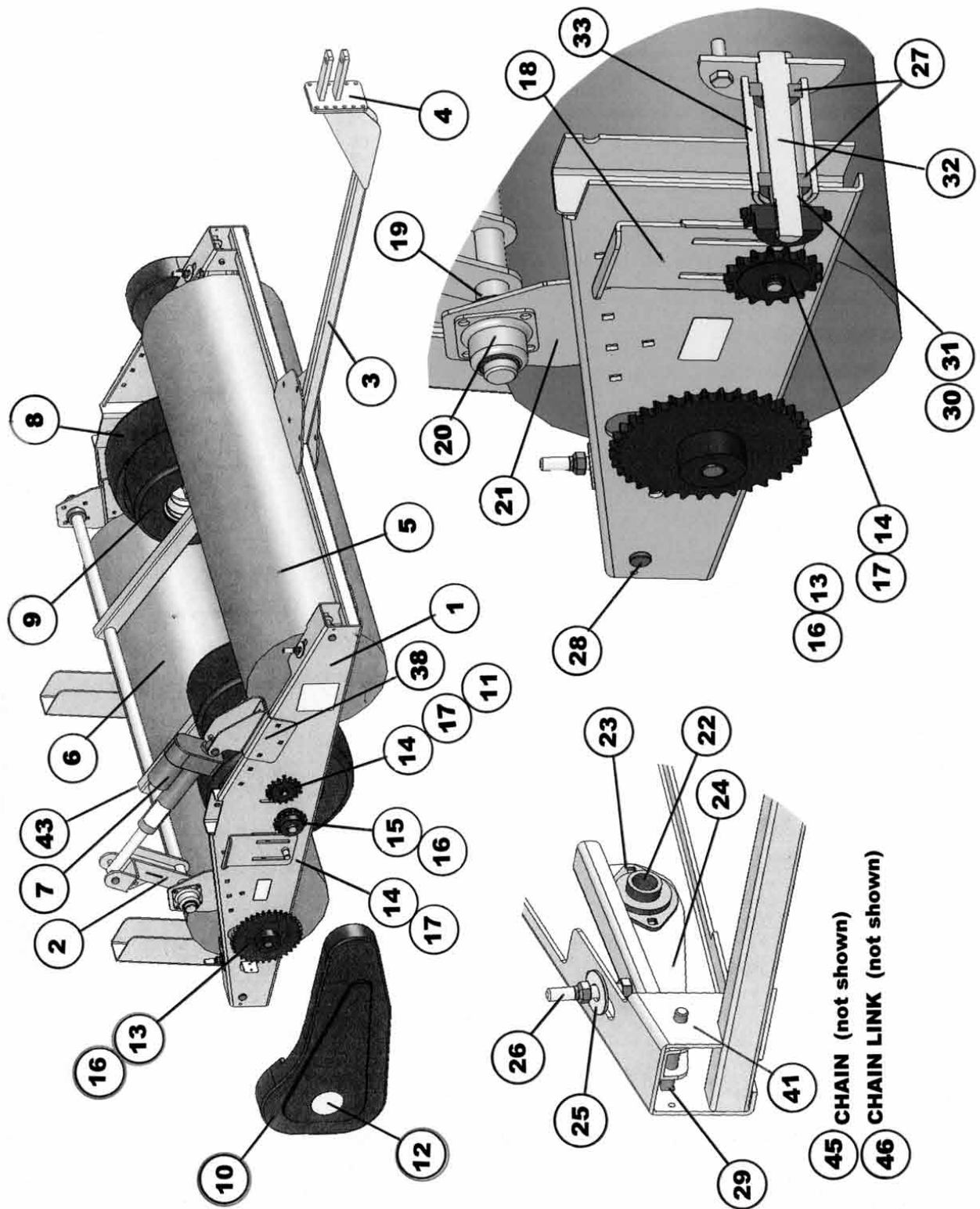


Figure 4.

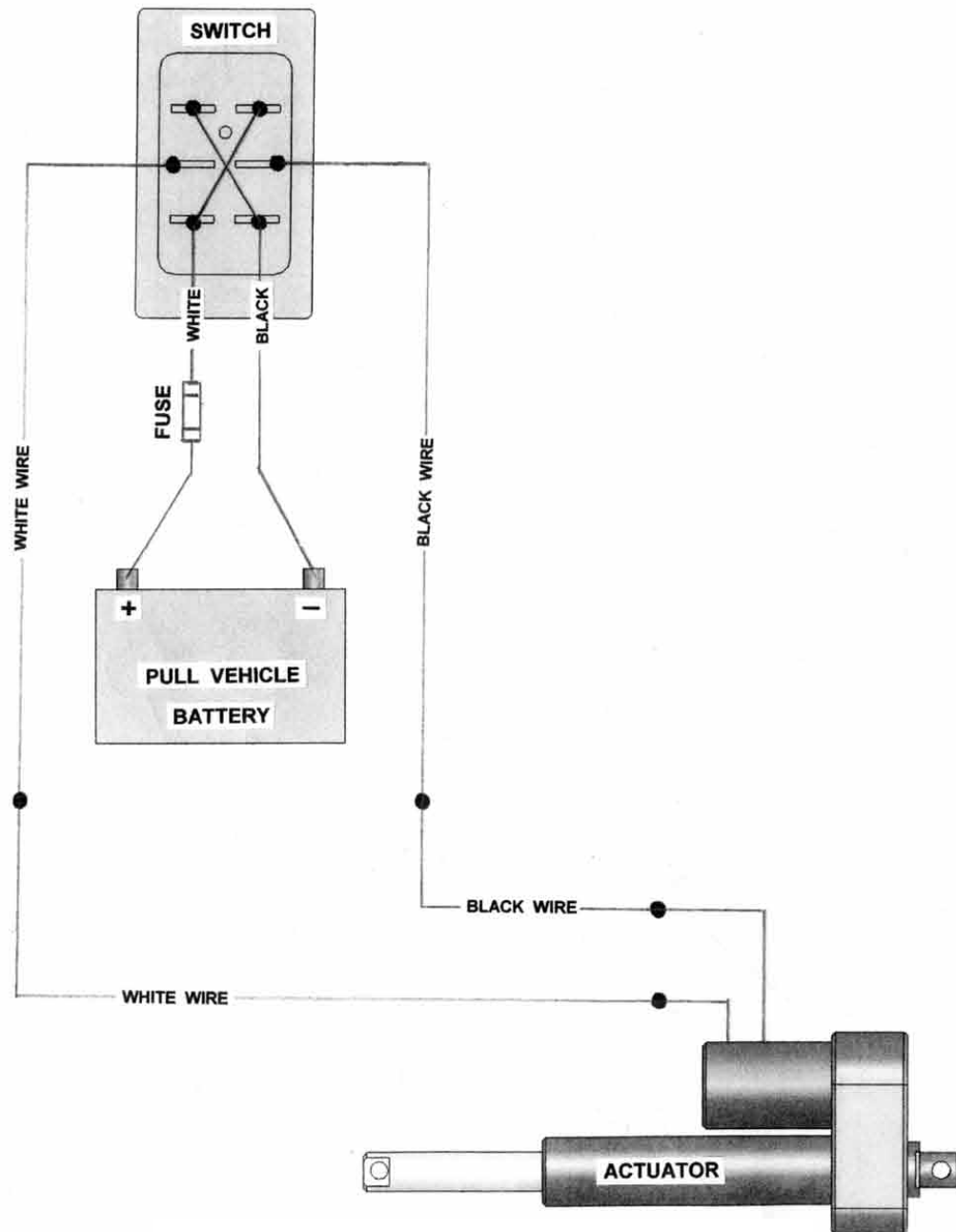
**PAR WEST**

Bill of Materials

#	NAME	REQ'D	NUMBER	DESCRIPTION
1	Frame assembly	1	12710-909	
2	Transport axle assembly	1	12710-908	
3	Tongue assembly	1	12710-903	
4	Hitch	1	12710-904	
5	Front brush assembly	1	12710-510	
6	Rear brush assembly	1	12710-510	
7	Electric actuator	1	ELECTRACK 10, 6"	12 volt
8	Drive wheel / tire	2	DM658-2TR1	16 x 6.50 - 8
9	Transport wheel / tire	2	W-DC6-3C-NB	13 x 6.50-6
10	Chain guard cover assembly	2	12710-500	
11	Reversing bracket assembly	2	12710-906	
12	Product decal	2	12710-520	
13	Brush sprocket	2	133-655	36 tooth # 50 chain
14	Idler sprocket / bearing	4	133-782 0.638 bore	17 tooth # 50 chain
15	Drive sprocket	2	133-586	16 tooth 3 50 chain
16	Key	4	953161	1/4 x 1/4 x 1 1/4 sq.
17	Retaining ring	4	68013	5/8 shaft .588 x .039
18	Idler bracket assembly	2	12710-905	
19	Lock collar	2	136-020	1 1/4 ID
20	Bearing set	2	FEE20G	1 1/4 bronze sleeve
21	Axle bracket	2	12710-045	
22	Bearing set	4	155-616 UC205-16	1" with locking collar
23	Bearing flange	8	52M-2-ZP	standard 2 bolt
24	Brush arm	4	12710-910	
25	Washer	4	33016	5/8 flat washer
26	Adjustment bolt	4		1/2-13 full thread hex
27	Bearing	4	1641-2RS	1" ID sealed roller
28	Clevis pin	4	CP-242	1/2 dia. x 4 long
29	Spacer	4	2868T11	1/2 ID x 3/4 long
30	Sleeve bushing	2	SS-3240 0434917	1" ID bronze
31	Washer	6	33445	1" ID x 1.50 OD x .075
32	Drive-spindle assembly	2	12710-907	
33	Hub (must be welded)	2	12710-530	replaceable part
34	Spindle(must be welded)(page 5)	2	12710-540	replaceable part
35	Actuator control box (page 5)	1	12710-550	
36	Actuator harness (page 5)	1	12710-551	
37	Fuse (page 5)	1	12710-552	25 amp mini auto
38	Actuator bracket	1	12710-040/041	
39	Clevis pin-shaft (page 5)	1	CP-240	1/2 dia. x 3 1/2 long
40	Clevis pin-boby (page 5)	1	CP-236	1/2 dia. x 2 3/4 long
41	Retaining pin (page 5)	6	Bow-120	retain actuator/arms
42	Sleeve bushing (page 5)	2	SS-1620 0434716	1/2 ID bronze
43	Plastic cap	2	1258-8	ABS
44	Lynch pin (not shown)	2	P/N Hange-2	retain trailer wheel
45	Chain (not shown)	2	12710-560	#50 chain 60.75" long
46	Chain Link (not shown)	2	12710-561	#50 standard link set



Sweep N Fill III Electrical Diagram



Registration / Warranty Card

NOTE:

In order to validate the warranty, the registration / warranty post card below **must be** completed in full and submitted within 30 days of purchase.



SAFETY PRECAUTIONS



Most accidents occur because of neglect or carelessness. Avoid needless accidents
By following all the safety precautions listed below.

- * Machinery should be operated only by those who are responsible and are authorized to do so.
- * Stop the engine, lower all equipment, lock the brakes, and remove the ignition key before dismounting the utility vehicle.
- * Loose fitting clothing should not be worn to avoid catching on various parts.
- * Unhook the SNF III in area where kids normally do not play.
- * Only a qualified operator should be allowed to drive the utility vehicle.
- * Make sure everyone is in the clear before starting utility vehicle or raising and lowering equipment.
- * Reduce speed when transporting to avoid mishaps. Avoid sharp turns, starts and stops on inclines.
- * Allow no riders.
- * Always be sure the SNF III is in the proper transport position.
- * Keep alert and watch the front as well as the rear when working with the SNF III.

STATEMENT OF POLICY

It is the policy of Dream Turf, LLC to improve its products where it is practical to do so. Dream Turf, LLC reserves the right to make changes or improvements in design and construction at any time without incurring obligation to make these changes on previously manufactured units.

LIMITED WARRANTY

Warranty - Supplier makes no representations or warranties, express or implied (including implied warranties of merchantability or fitness), except Equipment shall be warranted against faulty workmanship and material for one (1) year from date of purchase. All parts supplied by other manufacturers and which are used on Supplier's Equipment will carry the manufacturer's warranty only. Distributor agrees to deliver to purchasers at the time of each sale the documents containing the Express Limited Warranty to purchaser prescribed by Supplier and in force at the time of such sale. Distributor is not authorized to assume for Supplier any additional obligations or liabilities in connection with the sale of Equipment covered by this Agreement and Distributor agrees not to do so. Supplier and Distributor shall promptly fulfill their respective obligations with respect to any warranty claims.

The obligation of the Supplier under this warranty is limited to providing for the repair or replacement, in accordance with the warranty adjustments policies of the Supplier, of any part or parts that prove, in the Supplier's judgment, to be defective in material or workmanship within twelve (12) months after delivery of Equipment to the original purchaser.

This warranty shall be void if any part or parts not manufactured or supplied by the Supplier are used either in maintaining or servicing of Equipment covered by this warranty. No warranty whatsoever is made on used, second-hand, altered or rebuilt Equipment.

To make this warranty effective, the owner's registration card furnished with each unit must be sent to the Supplier, or its authorized distributors.

RESPONSIBILITY

The supplier does not accept any responsibility for damage or harm caused by not strictly observing the safety requirements and instructions in this manual. The manufacturer cannot be liable for damage, injury or consequential loss resulting from installation or servicing by unqualified personnel. The manufacturer will also not be liable for damage, injury or consequential loss resulting from incorrect operation or modifications of the equipment.



U.S. Patent No. 7,540,053 B2 and other patents pending

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