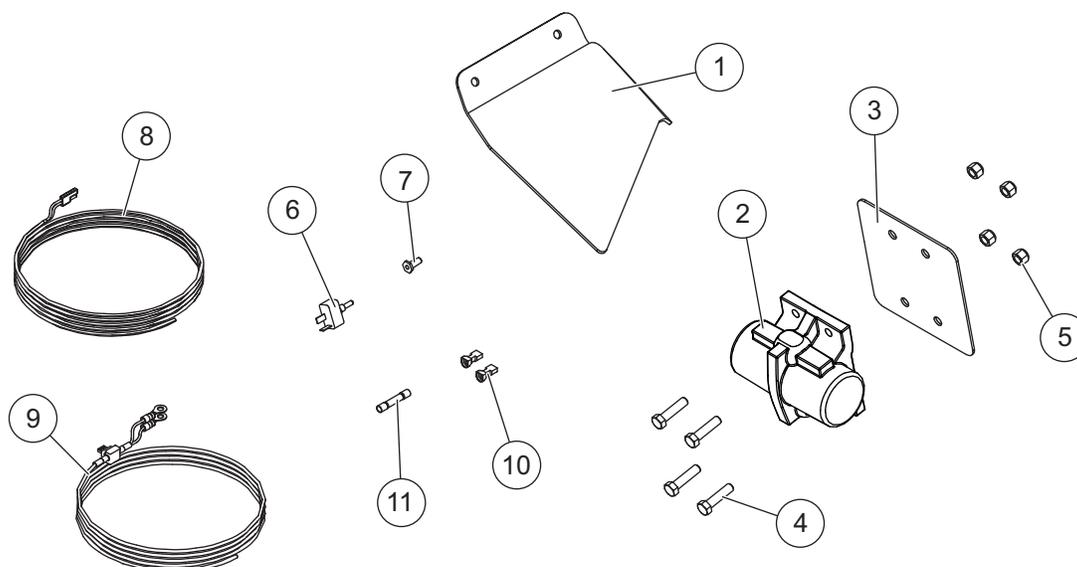


# Optimum Flow Kit

## 0.5 cu yd Hopper Spreaders

### PARTS LIST



51106 Optimum Flow Kit							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	88295	1	Opti-Flow Baffle	7	88291	1	Rubber Switch Boot
2	88283	1	DC-80 Vibrator	8	88289	1	Spreader/Vehicle Harness 20'
3	88284	1	Vibrator Backing Plate	9	88290	1	Battery Harness 10'
4	90043	4	3/8-16 x 2 Hex Cap Screw G5	10	88294	2	Spade Connector
5	91333	4	3/8-16 Hex Locknut GB	11	88287	1	Butt Connector
6	88285	1	ON/OFF Switch	ns	88288	1	Dielectric Grease
ns = not shown				G = Grade			

#### ⚠ WARNING

Do not exceed GVWR or GAWR ratings as found on the driver-side vehicle door cornerpost.

#### ⚠ CAUTION

Read this document before installing the Optimum Flow Kit.

#### ⚠ CAUTION

Plants can be damaged when exposed to vibrating surface.

#### ⚠ CAUTION

Use standard methods and practices when installing service parts and accessories, including proper personal protective safety equipment.

#### ⚠ CAUTION

Contact with a vibrating surface can cause numbness, tingling and loss of dexterity. Users should take breaks and wear gloves to limit vibrating exposure.

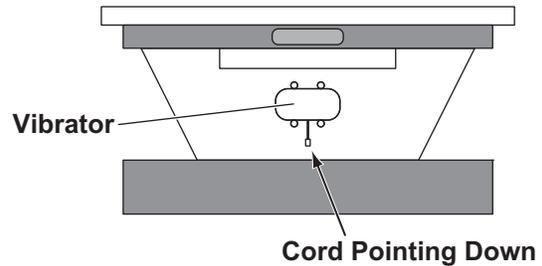
## INSTALLATION INSTRUCTIONS

Park the vehicle on a smooth, level, hard surface, such as concrete. Switch the spreader control OFF. Turn the vehicle ignition to the "OFF" position and remove the key.

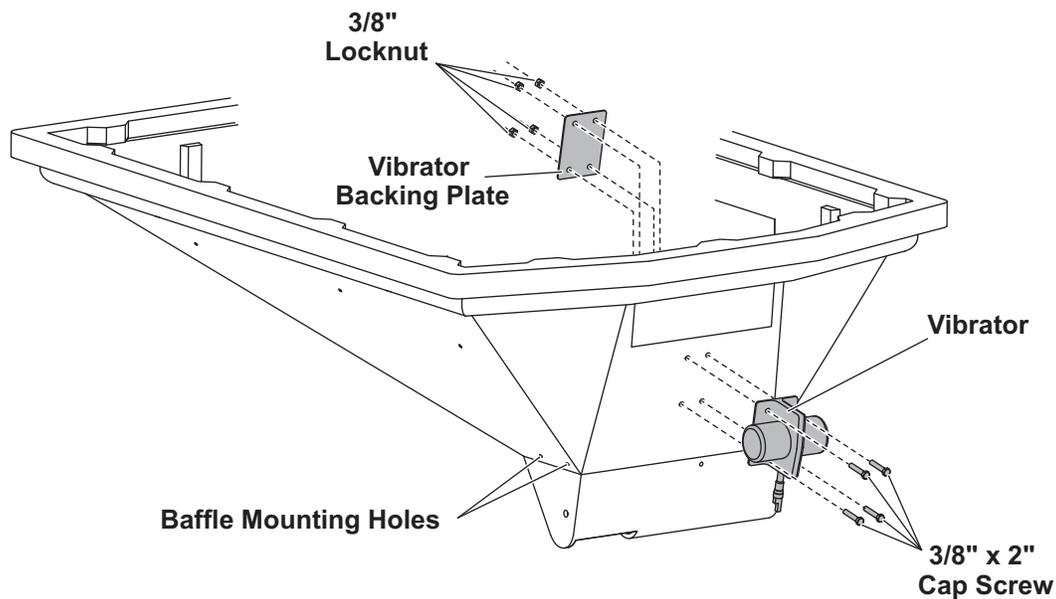
### Install Opti-Flow Baffle and Vibrator

1. Remove the top screen and fasteners.
2. Remove the existing hopper trough baffle and retain the fasteners.
3. Install the supplied opti-flow baffle in place of the original baffle using the retained 5/16" fasteners in the original mounting holes.

4. Position the vibrator horizontally below the brand logo on the hopper body. Mark and drill four 3/8" holes through the rear hopper face for mounting the vibrator.



5. Install the vibrator and backing plate with four 3/8" x 2" cap screws and 3/8" locknuts. The vibrator must be installed with the cord pointing down. The vibrator backing plate must be installed on the *inside* surface of the hopper, as shown.



## Install Wiring

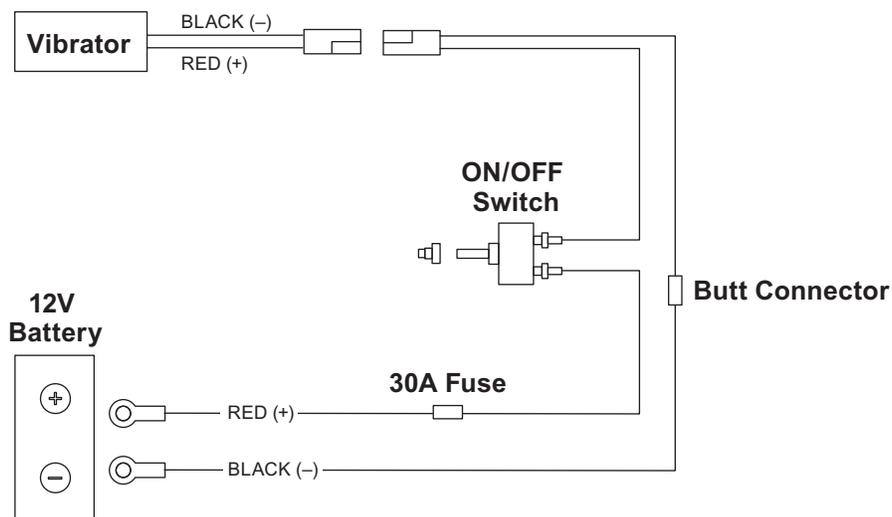
1. Install the ON/OFF switch and rubber switch boot at the desired location in the vehicle cab.
2. Route the spreader/vehicle harness from the rear of the vehicle to the ON/OFF switch. This will determine the proper length to cut the harness wires.
3. Remove 3" of the black outer jacket from the cut end of the spreader/vehicle harness, exposing the red and black wires. Strip 1/4" of insulation from the wires. Crimp a 1/4" spade connector onto the red wire. Crimp the butt connector onto the black wire. Connect the red wire with spade connector to the ON/OFF switch.
4. Route the battery harness from the battery to the ON/OFF switch to determine the proper length to cut the harness wires.
5. Repeat the process described in Step 3 to strip the wires on the battery harness and crimp a 1/4" spade connector onto the red wire. Crimp the black wire into the butt connector already attached to the spreader/vehicle harness. Connect the spade connector on the red wire to the ON/OFF switch.
6. Attach the ring terminal on the red wire of the battery harness to the POSITIVE (+) side of the battery and the ring terminal on the black wire to the NEGATIVE (-) side of the battery.
7. Connect the vibrator cord plug to the molded plug on the spreader/vehicle harness.

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**NOTE: Use dielectric grease on all connections to prevent corrosion. Fill receptacles and lightly coat ring terminals before assembly.**

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8. Reinstall the top screen.



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