Nordson

Instruction Sheet
P/N 1604433-01

Vibratory Deck Sieves – 15 in. (380 mm)

Introduction

This instruction sheet covers the vibratory deck sieves listed in the following tables.

15-Inch Deck Sieves with 2.5 in. OD Angled Chutes

Description
Sieves with 2-Port Lids
Sieve, 230–460V, 60 Hz, 3 phase, 2 port, 40 mesh
Sieve, 330–575V, 60 Hz, 3 phase, 2 port, 40 mesh
Sieve, 220/380/415V, 50 Hz, 3 phase, 2 port, 40 mesh
Sieve, 220/380V, 60 Hz, 3 phase, 2 port, 40 mesh
Sieve, 200/346V, 50 Hz, 3 phase, 2 port, 40 mesh
Sieves with 4-Port Lids
Sieve, 230–460V, 60 Hz, 3 phase, 4 port, 40 mesh
Sieve, 330–575V, 60 Hz, 3 phase, 4 port, 40 mesh
Sieve, 230/380/415V, 50 Hz, 3 phase, 4 port, 40 mesh
Sieve, 220/380V, 60 Hz, 3 phase, 4 port, 40 mesh
Sieve, 200/346V, 50 Hz, 3 phase, 4 port, 40 mesh

15-Inch Deck Sieves with 2.5 in. OD Straight Chutes

Description
Sieves with 2-Port Lids
Sieve, straight, 220/380/415V, 50 Hz, 3 phase, 2 port, 40 mesh
Sieve, straight, 200/346V, 50 Hz, 3 phase, 2 port, 40 mesh
Sieves with 4-Port Lids
Sieve, straight, 220/380/415V, 50 Hz, 3 phase, 4 port, 40 mesh
Sieve, straight, 200/346V, 50 Hz, 3 phase, 4 port, 40 mesh

Sieve Installation and Adjustments

Safety

WARNING: Allow only qualified personnel to perform the following tasks. Follow the safety instructions in this document and all other related documentation.

- All electrical connections must be made by a qualified electrician.
- The vibrator motor must be correctly grounded.
- All fasteners and clamps must be securely tightened before operating the sieve.
- Do not run the sieve at above the nominal motor speed.
- Always wait until the motor has cooled, then disconnect power, before working on it.
- Disconnect power before removing the terminal box cover or weight covers.
- Inspect the fasteners, isolation mounts, gasket, screen, and power supply regularily.

WARNING: The motor should never be run without the weight covers securely installed. Doing so could result in equipment damage or personal injury.

3-Phase Connections

Check the vibrator motor nameplate for the motor voltage and frequency. Do not operate the motor at any other voltage or frequency other than that stated on the nameplate. Figure 1 shows the power cable connections at the terminal box for high or low voltages.

A ground screw is located inside the terminal box. Use this screw to ground the vibrator motor by connecting it to the yellow/green or green power cable lead.

The motor can rotate in either direction. To change the direction, disconnect power then reverse any two phase wires in the terminal box.

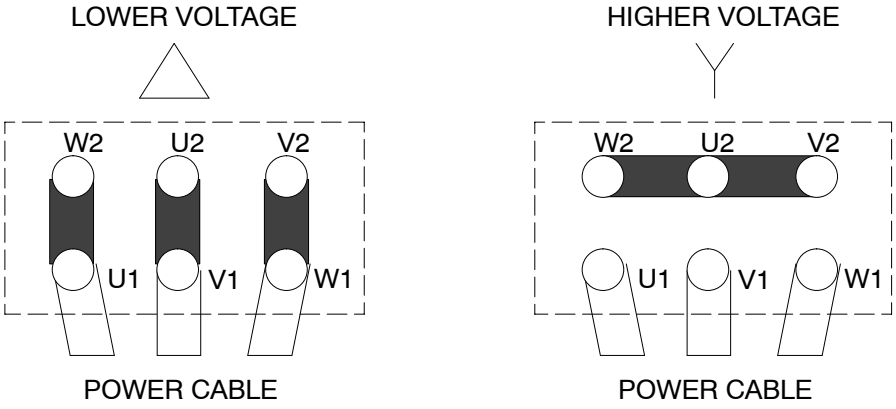

Figure 1 Sieve Motor Voltage Connections

Motor Weight Adjustment

The sieve motors are shipped with both the top and bottom weights set at 100%. When both weights are set to the same percentage, the sieve moves from side to side. Setting one weight at a different percentage from the other adds a slight “diving board” or bouncing effect to the sieve motion, which may increase screening efficiency with some powders.

CAUTION: Never adjust the weights so that there is more than a 30% difference between them. Doing so will rapidly wear out the motor bearings.

To adjust the motor weights:

See Figure 2.

1. Remove the sieve motor from the sieve.
2. Remove the covers from both ends of the motor.
3. Place wrenches on the nuts on both ends of the motor shaft and loosen the nut on one end. The opposite nut will remain tight.
4. Place a wood block as shown to prevent the weight from turning, then loosen the opposite nut. Unscrew both nuts enough to allow you to rotate the outside weights.
5. Turn the outside weights so that the pointers are on the desired weight settings and the outside weight pins slip into the appropriate hole in the inside weights.
6. Tighten both shaft nuts securely. Install the end caps.

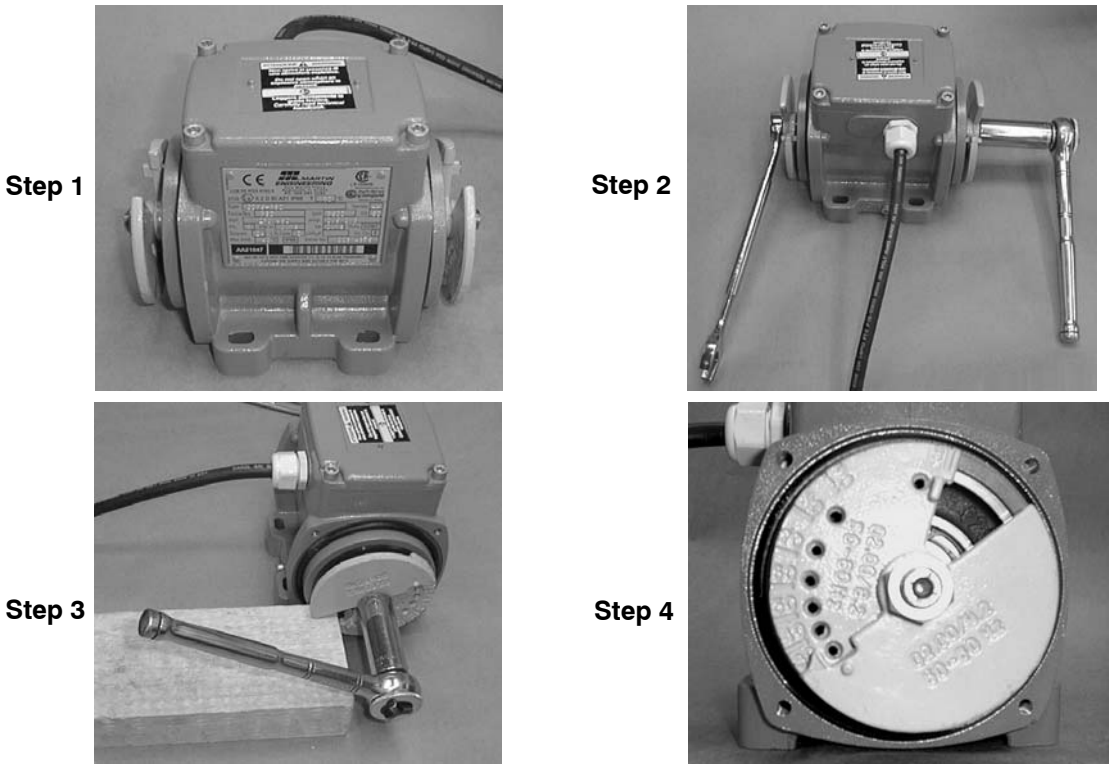

Figure 2 Sieve Motor Weight Adjustment

Clamp Adjustment

The deck clamps must always be correctly set to hold the deck and screen securely to the pan. Unsecured components can result in excessive noise and wear or damage to the sieve.

To adjust the clamping action, loosen the lock nut and screw the pad spindle in or out, then tighten the lock nut.

- The clamp pad must be aligned lengthwise with the sieve deck.
- The clamps should only require firm, single-hand pressure to close, and should go over-center to ensure locking.
- If the clamp pads are worn more than half-way, replace them.
- Check the clamp pads after the first 50 hours of operation and adjust them if necessary.

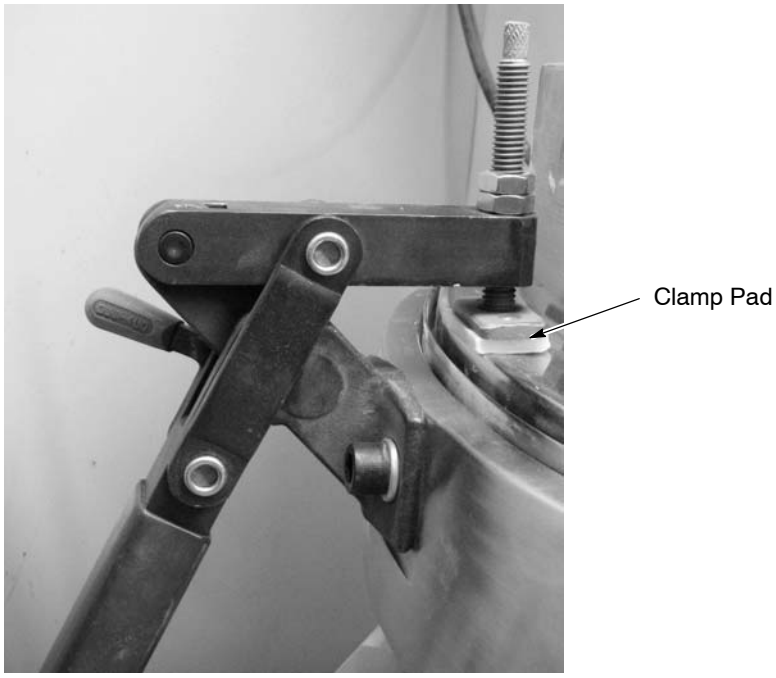

Figure 3 Correct Clamp Pad Position – Clamp Shown Toggled Over-Center

Sieve Parts

For parts and technical support, call the Nordson Industrial Coating Systems Customer Support Center at (800) 433-9319, or contact your local Nordson representative.

See Figure 4.

Screens

Item	Part	Description	Note
1	1603634	Screen, sieve, vibratory, 15 in., 20 mesh (841 microns)	
1	1604110	Screen, sieve, vibratory, 15 in., 30 mesh (595 microns)	
1	1603635	Screen, sieve, vibratory, 15 in., 40 mesh (400 microns)	
1	1603636	Screen, sieve, vibratory, 15 in., 60 mesh (250 microns)	

Vibrator Motors

Item	Part	Description	Note
3	1603628	Vibrator, sieve, 230/460V, 60 Hz, 3 phase	
3	1603629	Vibrator, sieve, 330/575V, 60 Hz, 3 phase	
3	1603630	Vibrator, sieve, 220/380/415V, 50 Hz, 3 phase	
3	1603631	Vibrator, sieve, 220/380V, 60 Hz, 3 phase	
3	1603632	Vibrator, sieve, 200/346V, 50 Hz, 3 phase	

Miscellaneous Parts

Item	Part	Description	Quantity	Note
2	1603633	Gasket, screen, sieve, 15 in.	1	A
4	1603637	Latch, sieve, toggle	2	
5	1017602	Mount, isolation, sieve	4	
6	1104897	Cap, vinyl, 3/4–13/16, black	AR	
7	1070199	Plug, hopper fill, NHR	1	

NOTE A: The screen gasket is made from a conductive material. DO NOT replace it with a non-conductive gasket.
AR: As Required

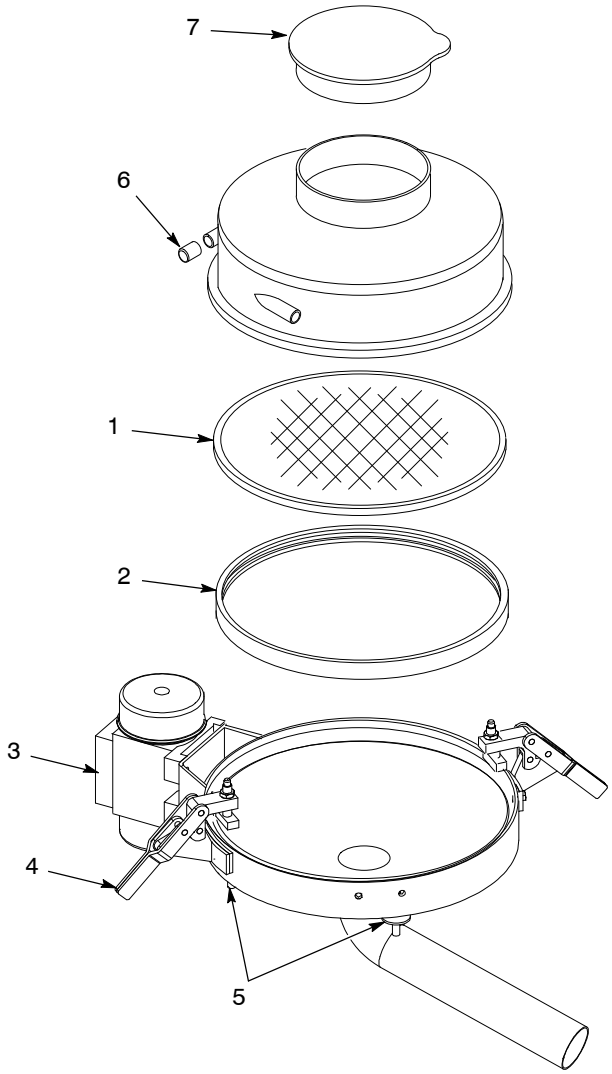

Figure 4 Sieve Parts (Sieve with Angled Chute Shown)

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