



ML4330 SIEVE SHAKER **MANUAL**



Thank you for purchasing the ML4330 sieve shaker. You and your company will have many years of use from this quality testing system. This sieve shaker has the ability to accommodate a variety of sieves from 8 inch up to 12 inch diameter or metric equivalent.

Installation

The ML4330 sieve shaker meets or exceeds ASTM C136 specifications and has been shipped complete and ready for operation. It is recommended that the base be properly fastened to a rigid platform, or on the floor using bolts or fasteners of sufficient size. Plug power cord into an appropriately grounded outlet.

Please note that sieves are not supplied with the shaker, they can be purchased separately or in nests. For more details on sizes, pricing and availability visit us online at www.mltest.com or email us at info@mltest.com

Operation

Select the sieves with the appropriate mesh sizes that are to be used and stack them together beginning with a pan at the bottom. Then the finest sieve followed by increasing coarser sieves with the coarsest on top. Place stack of sieves in the shaker with the bottom pan resting on the cradle platform. Cover the top sieve so that the stack can be easily secured in the shaker. Secure the stack with the sieve hold-down bar on the top of the stack and tighten using fastener knobs on each side.

Shaker is now loaded and ready for testing. Your shaker is equipped with a 30 minute timer. Turning the timer will start the shaker immediately, adjust timer for desired length of time. The shaker will stop once the desired amount of time has run out.

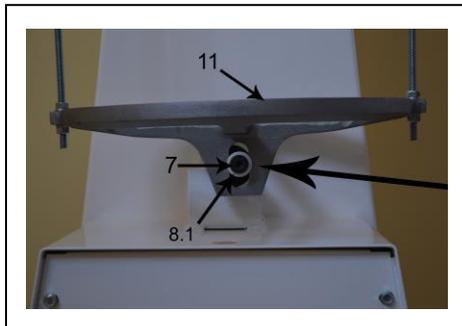
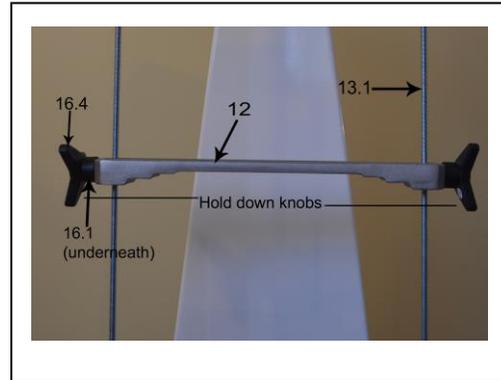
**Caution! Sieve shaker has several pinch points! Keep hands and loose clothing away from moving parts while the machine is in operation.
Manufacturer/distributor will not be held responsible for any injuries.**

How To Adjust

Place the stack of sieves on the shaker and load sample.

Secure with the hold-down bar, clamping it in place with the knobs on each side.

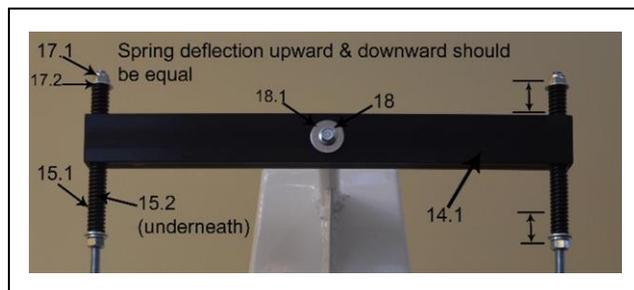
CAUTION: Disconnect power before performing any adjustments to shaker



Depending on the weight of the sieve stack, an adjustment of the lower cradle may be necessary. Remove the back guard, turn the large pulley and note when the eccentric drive has moved the bottom cradle to the extreme right or left of its travel. At this point the shoulder bolt and bushing should be in the middle of the vertical slot (in lower part of the cradle)

If adjustment is required, loosen the hold-down bar knobs and the hex nuts which position the bottom cradle on the threaded rods. Adjust cradle upward or downward until the shoulder bolt with bushing is centered. Retighten the fasteners (hex nuts and knobs).

When operating correctly, the movement upward and downward of the rod springs should be approximately equal. Test for this by hand turning the pulley one revolution and note the spring deflections at the top and bottom of the travel. If they are not equal repeat the adjustment until they are approximately equal. Once equal, adjustments are finished. Reinstall back guard.



ML4330 Sieve Shaker

ML4330.001	Chassis	ML4330.15.2	Sleeve (2)
ML4330.002	Timer (30 minute)	ML4330.16.1	Threaded eye bolt (2)
ML4330.002.1	Cord strain relief*	ML4330.16.4	Hold down bar knob (2)
ML4330.003	Motor*	ML4330.17	Bolt 5/16" x 3/4" (8)*
ML4330.003.3	Power cord*	ML4330.17.1	Hex nut 5/16" (8)
ML4330.004.1	Pulley 12"*	ML4330.17.2	Washer 5/16" (8)
ML4330.004.3	Vee belt*	ML4330.17.3	Lock washer 5/16" (8)*
ML4330.004.4	Pulley 1.5"*	ML4330.18	Bolt 1/4"
ML4330.005	Bronze bushings for Cam shaft (2)*	ML4330.18.1	Washer 1/4"

ML4330.006 Cam shaft*

Items with (*) are not shown in diagrams.

ML4330.006.1 Key way*

ML4330.007 Cam shaft shoulder
bolt

ML4330.8.1 Bushing

ML4330.8.2 Washer*

ML4330.TS010 Front cover

ML4330.TS010.1 Back cover/guard*

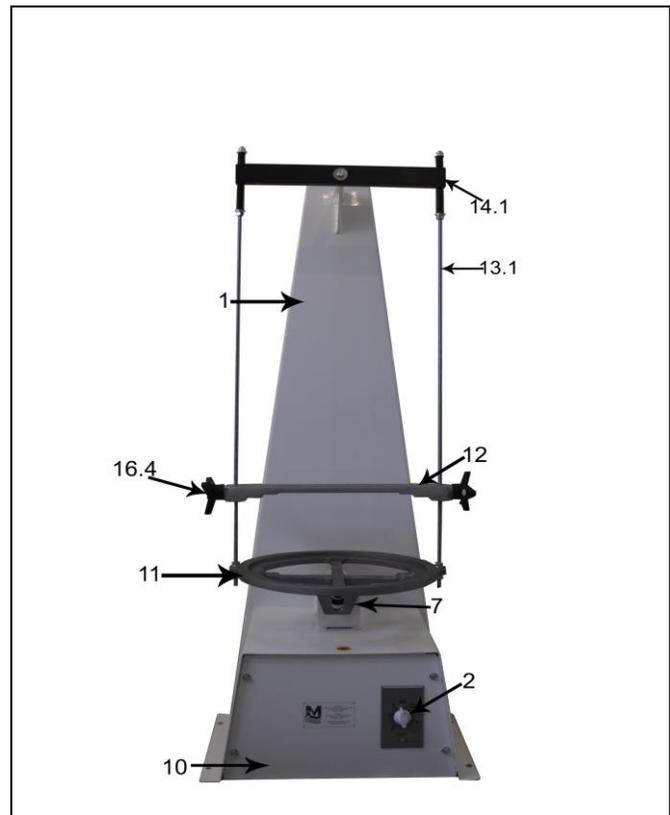
ML4330.11 Sieve cradle/base plate

ML4330.12 Hold down bar

ML4330.13.1 Threaded rod (2)

ML4330.14.1 Crosshead

ML4330.15.1 Spring (4)



Maintenance

- 1 – Disconnect power before performing any service or adjustments on shaker.
- 2 – Clean shaker periodically.
- 3 – Grease cam shaft every 100 hours of operation.
- 4 – Periodically check all fasteners for tightness.

Warranty

M&L Testing Equipment warrants this product to be free from defects in material or workmanship for one full year. M&L Testing Equipment will free of charge replace any parts and provide mechanical service necessary for proper operation, except for normal maintenance. If shaker has been misused/alterd or improperly maintained, warranty is null and void. Warranty service is available by returning shaker to point of purchase. Purchaser is responsible for any or all transportation charges.



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