

IMPORTANT UPDATE

The following changes were made to this machine since the owner's manual was printed:

- Equipment changes; digital read-out

SuperMax[®] BY LAGUNA

16-32 Drum Sander Owner's Manual



LAGUNA



Lagunatools.com

Thank you for investing in a 16-32 SuperMax by Laguna Tools drum sander. This drum sander is one of a family of unique machines proudly offered by Laguna Tools. Every Laguna machine is engineered for years of dependable service. Please feel free to contact Laguna Tools if you have a question or suggestion. We appreciate working with you and your choice of a Laguna Tools machine for your shop.

Regards,
Torben Helshoj
President & Founder Laguna Tools

Dealer Machinery Warranty

New woodworking machines sold by Laguna Tools carry a two-year warranty effective from the date of dealer invoice to consumer. Machines sold through dealers must be registered with Laguna Tools within 30 days of purchase to be covered by this warranty. Laguna Tools guarantees all new machine sold to be free of manufacturers' defective workmanship, parts and materials. We will repair or replace, without charge, any parts determined by Laguna Tools, Inc. to be a manufacturer's defect. We require that the defective item/part be returned to Laguna Tools with the complaint. An RMA (return merchandise authorization) must be requested, from Laguna Tools, and included with any and all parts or machines returned to Laguna Tools for warranty consideration. Any machines returned to Laguna Tools must be returned with packaging in the same manner in which it was received. If a part or blade is being returned it must have adequate packaging to ensure no damage is received during shipping. In the event the item/part is determined to be damaged due to lack of maintenance, cleaning or misuse/abuse, the customer will be responsible for the cost to replace the item/part, plus all related shipping charges. This limited warranty does not apply to natural disasters, acts of terrorism, normal wear and tear, product failure due to lack of maintenance or cleaning, damage caused by accident, neglect, lack of or inadequate dust collection, misuse/abuse or damage caused where repair or alterations have been made or attempted by others.

This manual applies to the 16-32 SuperMax by Laguna Tools drum sander. Enter the model number and serial number below for quick reference when ordering accessories, supplies or parts.

Model: _____

Serial: _____

Laguna Tools

7291 Heil Avenue

Huntington Beach CA 92606

800-234-1976

www.lagunatools.com

Using The DRO

Specifications

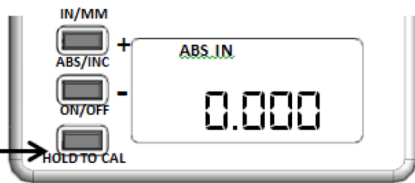
- Resolution:**
- Decimal = .005 in.
 - Fraction = 1/32 in.
 - Metric = 0.1 mm
- Accuracy:**
- Decimal = +/- .0025 in.
 - Fraction = +/- 1/500 in.
 - Metric = +/- .05 mm
- Battery:**
- 2 AAA (not included)
- Functions:**
- Constant memory retains calibration even when OFF
 - Incremental measuring mode
 - Absolute measuring mode
 - Millimeter, Inch and Fraction readout
 - Auto shut off



Button Reference and Use

It is helpful to familiarize these buttons and their purpose with the Wixey DRO

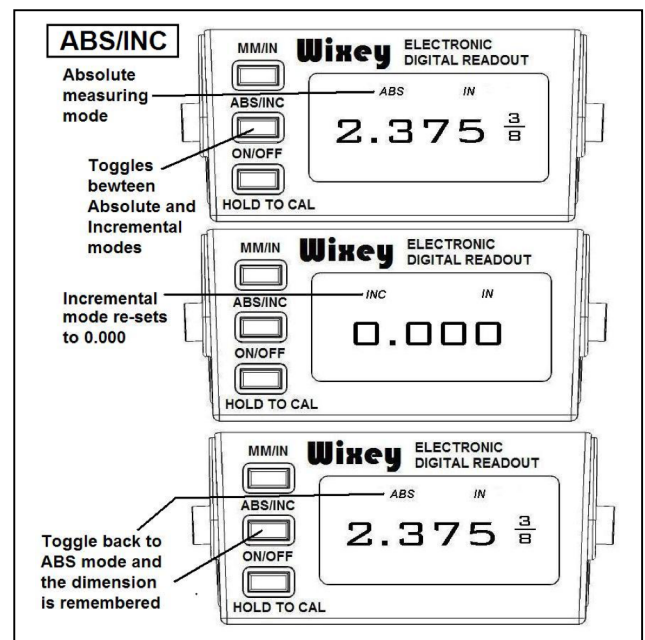
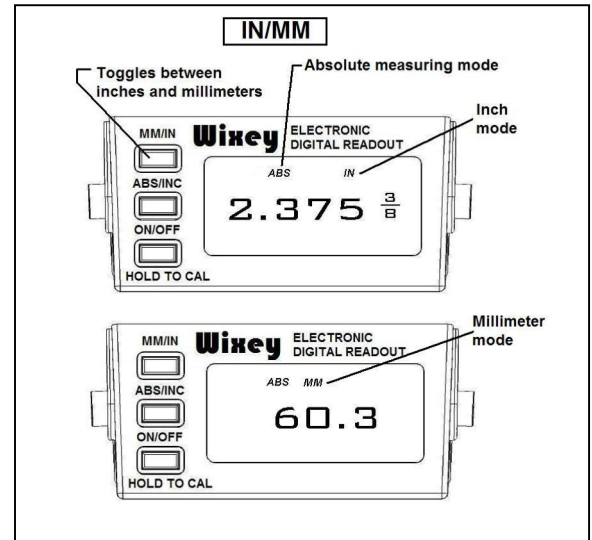
ON/OFF and CALIBRATION



- PUSH MOMENTARILY TO TURN OFF AND ON
- HOLD FOR 3-5 SECONDS TO ENTER CALIBRATION MODE. THE "ABS IN" FLASHES
- TO CHANGE THE DISPLAY VALUE FROM 0.000 USE THE + OR - BUTTONS.



- A SHORT PRESS INCREASES ONE DIGIT. HOLDING THE BUTTON COUNTS FAST.
- PRESS THE ON/OFF BUTTON MOMENTARILY TO SET THE CALIBRATION VALUE. THE "ABS IN" WILL STOP FLASHING



Calibration

There are three typical variations of calibration. The first variation (Type 1) is for the DRO to show the sanded thickness of the material. The second variation (Type 2) is to show how much stock is being removed with each pass of the sander. Another method (Type 3) to show the amount of material being removed per pass without recalibrating the Type 1 setting.

Type 1 Calibration ABS:

Calibration for the DRO to show sanded thickness (Type 1). Calibration is quick and easy and requires no extra measuring device. Make sure the machine is turned OFF and power is disconnected!

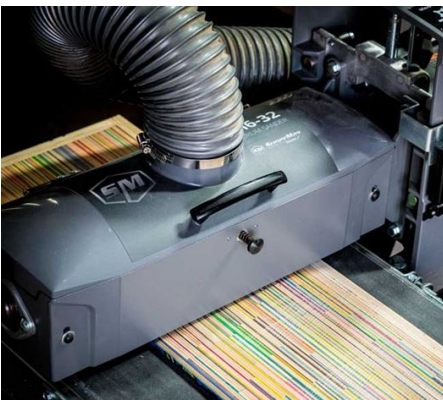
1. Wrap the sanding drum with the desired grit abrasive.
2. Lower the sanding drum until it lightly touches the conveyor belt.
3. Turn "ON" the DRO.
4. Hold the "CAL" button 3 seconds until "0.00" appears.



Type 2 Calibration ABS:

Calibration for the DRO to show stock removed per sanding pass (Type 2). Calibration is quick and easy and requires no extra measuring device. Make sure the machine is turned OFF and power is disconnected after the first step!

1. Sand a test piece of stock until it is flat and uniform on both sides.



2. Turn the Sander OFF and disconnect power to sander.
3. Position the sanding drum (with abrasive still wrapped on drum) on the test piece until the drum is lightly touching the test piece.

Continued on next page.

4. Press and hold the “CAL” button for 3 seconds until “0.00” appears.



Type 3 Calibration INC:

This method allows saving the original calibration from Type 1 and confirming the amount of material being removed per pass.

1. Make one pass sanding your stock. Without changing the drum height press the “ABS/INC” button to read “0.00”. This changes the readout from “ABS” to “INC” and zero’s the readout on top of the just sanded piece. Now the readout will show the amount of stock removed per sanded pass in “INC” mode.
2. To change back to the original (Type 1) calibration press the “ABS/INC” button to change back to “ABS” mode.

NOTE: When changing the abrasive wrap to a different grit the DRO must be recalibrated for the change of drum diameter with the new grit abrasive!

NOTE: When setting the depth of cut, never exceed the thickness of the grit for stock removal.

Depth of cut/Sanding

TIP: With the sander turned OFF, place the stock to be sanded under the drum (wrapped with abrasive of choice) and lower the drum until the drum contacts the workpiece and the drum can be rotated with hand pressure. This is a good test for maximum stock removal as you are becoming familiar with setting the sander for proper stock removal.

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Parts

⚠ WARNING: Never perform and setup, maintenance or adjustments with the machine connected to the power source!

TECH TIP ⚙ Only use authentic Laguna Tools parts for replacements.

Customer Support: (949)-474-1200 or customerservice@lagunatools.com

Key	Part Number	Description	Specification	Qty
1	71632-101	Motor		1
2	480BS-102	Strain Relief, motor	7P-2	3
3	71632-103	Main Cord, Inverter to Control Box		1
4	480BS-104	Key	3/16"SQx3/4"	2
5	480BS-105	Nylon Insert Lock Nut	5/16"-24	4
6	480BS-106	Flat Washer	5/16"	8
7	480BS-107	Oilite Washer	5/16"	8
8	71632-108	Motor Plate		1
9	71632-109	Nut		1
10	71632-110	Hex Cap Screw	5/16"-18x1"	4
11	480BS-111	Lock Washer	3/8"	4
12	71632-112	Socket Head Cap Screw	3/8"-16x3/4"	4
13	480BS-113	Set Screw	1/4"-20x1/4"	5
14	480BS-114	Coupling		2
15	480BS-115	Coupling Spider		1
17	480BS-117	Screw, Phil Pan Head	M4x0.7x6	5
18	71632-118	Screw	M3x0.5x8	1
19	71632-119	Micro Adjustment/Quick Knob		1
20	480BS-120	Knob		1
21	480BS-121	Height Adjustment Handle		1
22	480BS-122	Nylon Insert Lock Nut	5/8"-11	1
23	71632-123	Height Adjustment Screw		1
24	71632-124	Washer, Wave	D17	1
25	480BS-125	Thrust Bearing	51103	1
26	71632-126	Shroud		1
27	30-3028	Stud		4
28	71632-128	Hex Cap Screw	3/8"-16x3/4"	8
29	480BS-129	Flat Washer	3/8"	8
30	480BS-130	Hinge		2
31	71632-131	Dust Cover		1
32	480BS-132	Handle		1
33	480BS-133	Pan Head Machine Screw	#8x1/2"	4
34	480DS-134	Lock Washer	M3	2
35	480BS-135	Dust Cover Latch		1
36	480DS-136	Phillips Flat Head Screw	M3x0.5x10	2
37	71632-137	Sanding Drum		1
38	480DS-138	Hex Nut	M3x0.5	2
39	480DS-139	Inboard Abrasive Fastener		1
40	480DS-140	Outboard Abrasive Fastener		1
41	71632-141	Carriage Bolt	5/16"-18x3/4"	4
42	480DS-142	Bearing	6205LLU	2
43	480DS-143	C-Ring	S25	2
44	71632-144	Drum Carriage		1
45	480BS-145	Flat Washer	1/4"	5
46	71632-146	Round Socket Head Cap Screw	1/4"-20x3/4"	4
47	480BS-147	Flat Washer	5/16"	4
48	480DS-148	Bearing Seat		2
49	480BS-149	Hex Cap Screw w/ Washer	#10-24x3/8"	2
50	480BS-150	Dust Cover Catch		1
51	480BS-151	Stud		1

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52	480BS-152	Spring		1
53	71632-153	Tension Roller		2
54	480BS-154	Bushing, Oilite		4
55	480BS-180	Tension Roller Bracket, Outer Left		2
56	480BS-156	Screw	5/32"-32x1"	4
57	480BS-157	Spring, Tension Roller		4
58	480BS-179	Tension Roller Bracket, Outer Right		2
59	480BS-159	Pad, Bracket-Tension Roller		2
60	71632-160	Bracket		2
61	480BS-161	Plate		1
62	71632-162	Base		1
63	480BS-163	Adjusting Lever (FAST)		1
64	480BS-164	Adjusting Rod		1
65	480BS-165	Height Adjusting Plate		1
66	71632-166	Round Socket Head Cap Screw	5/16"-18x3/4"	4
67	480BS-167	Lock Washer	5/16"	4
68	480BS-168	Spring		3
69	480BS-169	Nylon Insert Lock Nut	1/4"-20	1
70	71632-170	Socket Head Cap Screw	5/16"-18x1-1/2"	2
71	480DS-171	Hex Nut w/ Washer	5/16"	4
72	71632-172	Spring		1
73	71632-173	Quick Arm		1
74	71632-174	Rubber Sleeve		1
75	71632-175	Cap		1
76	71632-176	Micro Adjustment/Quick Bar		1
77	71632-177	Screw, Phil Pan Head	M4x0.7x10	4
78	71632-178	Cylinder		1
79	71632-179	Quick Arm Handle		1
80	71632-180	Spacer		1
81	480BS-181	E-Ring	E5	1
82	71632-182	Nut		1
83	71632-183	Socket Head Cap Screw	M6x1.0x30	1
84	71632-184	Socket Head Cap Screw	M6x1.0x15	1
85	71632-185	Micro Adjustment/Quick Label		1
86	480BS-186	Maintenance Label		1
87	480BS-187	Warning Label		1
88	71632-188	Set Screw	1/4"-20x3/8"	1
89	71632-189	O-Ring	P8	1
90	71632-190	Screw	M5x0.8x12	3
91	71632-191	Cover, Base-Control Box		1
92	71632-192	Switch, ON/OFF		1
93	480DS-210	Controller		1
94	480BS-207	Knob		1
95	71632-195	Speed Adjustment Label		1
96	480DS-213	Receptacle, Main Cord		1
97	480DS-203	Power Cord		1
98	71632-198	Pan Head Self-Tapping Screw	M3x0.5x10	2
99	480BS-214	Screw	#10-32x1/2"	2
100	480BS-215	Washer, Lock-Int. Tooth	#10	2
101	480BS-204	Flat Washer	5/16"	1
102	480BS-242	Hex Nut	5/16"-24	1
103	480BS-243	Slotted Set Screw	#8-36x5/16"	1
104	71632-1104	Hex Nut	M4x0.7	4
105	71632-1105	Hex Nut	#10-32	2
106	71632-1106	Cover, Base-Control Housing		1
109	72550-197	Screw, Phil Pan Head	M4x0.7x12	2
111	71632-1111	Abrasive	#80	1
112	71632-1112	Nylon Washer	M3	2

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117	71632-1117	Socket Head Cap Screw	5/16"-18x1-3/4"	1
121	71632-1121	Flat Washer	M3	1
122	71632-1122	Tool Storage		1
123	71632-1123	Fixed Plate, DRO		1
124	71632-1124	Wixey Digital Readout (AAA Batteries not included)	1	

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