

Stein

M-2 MILL



The Steinlite Corporation

1015 Main Street
Atchison, Kansas 66002-2508
Phone 1-800-462-1835
Fax 1-913-367-4523
E Mail sales@steinlite.com
Website www.steinlite.com

To avoid delay
in
service or repair
write or call
the manufacturer:

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STEIN M-2 MILL OPERATING INSTRUCTIONS

ILLUSTRATION NO. 1 IDENTIFIES THE DIFFERENT PARTS OF THE STEIN MILL.

ILLUSTRATION NO. 2 ILLUSTRATES HOW THE STEIN MILL APPEARS WHEN YOU MOVE IT FROM SHIPPING CRATE.

OPERATION

TO REMOVE CUP, TURN CUP RETAINING KNOB ABOUT ONE TURN, CLOCKWISE.

HOLDING CUP HANDLE, TURN CUP TO THE LEFT UNTIL SAFETY SWITCH ACTIVATOR PIN ON THE RIGHT SIDE COMES OUT OF THE SAFETY SWITCH HOUSING. (SEE DWG A)

HOLD CUP FIRMLY BY THE HANDLE, AND SWING LOWER CUP SUPPORT ASSEMBLY TO THE LEFT UNTIL IT CLEARS THE BOTTOM OF THE CUP. THE CUP IS NOW FREE TO BE LOWERED.

TO GRIND A SAMPLE, PLACE THE REQUIRED AMOUNT IN THE CUP. LIFT CUP UP UNTIL IT SEATS IN THE UPPER CUP SUPPORT.

SWING LOWER CUP SUPPORT TO THE RIGHT UNTIL IT STOPS.

TURN CUP UNTIL SAFETY SWITCH ACTIVATOR PIN ENTERS THE SAFETY SWITCH HOUSING AND STOPS. (SEE DWG B)

TIGHTEN THE CUP IN PLACE BY TURNING THE CUP RETAINING KNOB SUFFICIENTLY TO HOLD IT SECURELY IN PLACE DURING THE GRINDING OPERATION.

TURN POWER SWITCH ON. SET DIAL OF ELECTRIC RESET TIMER TO THE TIME INTERVAL THAT YOU WANT FOR THE GRINDING OPERATION.

PRESS (MOMENTARILY) THE RESET BUTTON. THIS WILL TURN THE MILL ON. WHEN MOTOR STOPS TURN POWER SWITCH OFF AND REMOVE THE CUP.

IF MORE SAMPLES ARE TO BE GROUND, IT IS NOT NECESSARY TO RESET THE TIMER DIAL EACH TIME. TO START THE MILL TO THE PREVIOUS TIMING PERIOD, TURN POWER SWITCH ON AND PRESS THE RESET BUTTON.

WARRANTY: STEIN M-2 MILL

THE STEINLITE CORPORATION, THE MANUFACTURER, WARRANTS THIS PRODUCT TO BE FREE FROM DEFECTS CAUSED BY FAULTY MATERIALS OR WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SHIPMENT. THE LIABILITY UNDER THIS WARRANTY IS LIMITED TO REPAIRING OR REPLACING (F.O.B. FACTORY) AND PRODUCTS WHICH ARE DEFECTIVE.

THE WARRANTY DOES NOT EXTEND TO ANY DEFECT CAUSED BY FIRE, FLOOD, DISASTERS, DISORDERS, NEGLIGENCE, MISUSE, ACCIDENT, OR UNAUTHORIZED REPAIR OR ALTERATION AFTER THE MILL LEAVES THE FACTORY.

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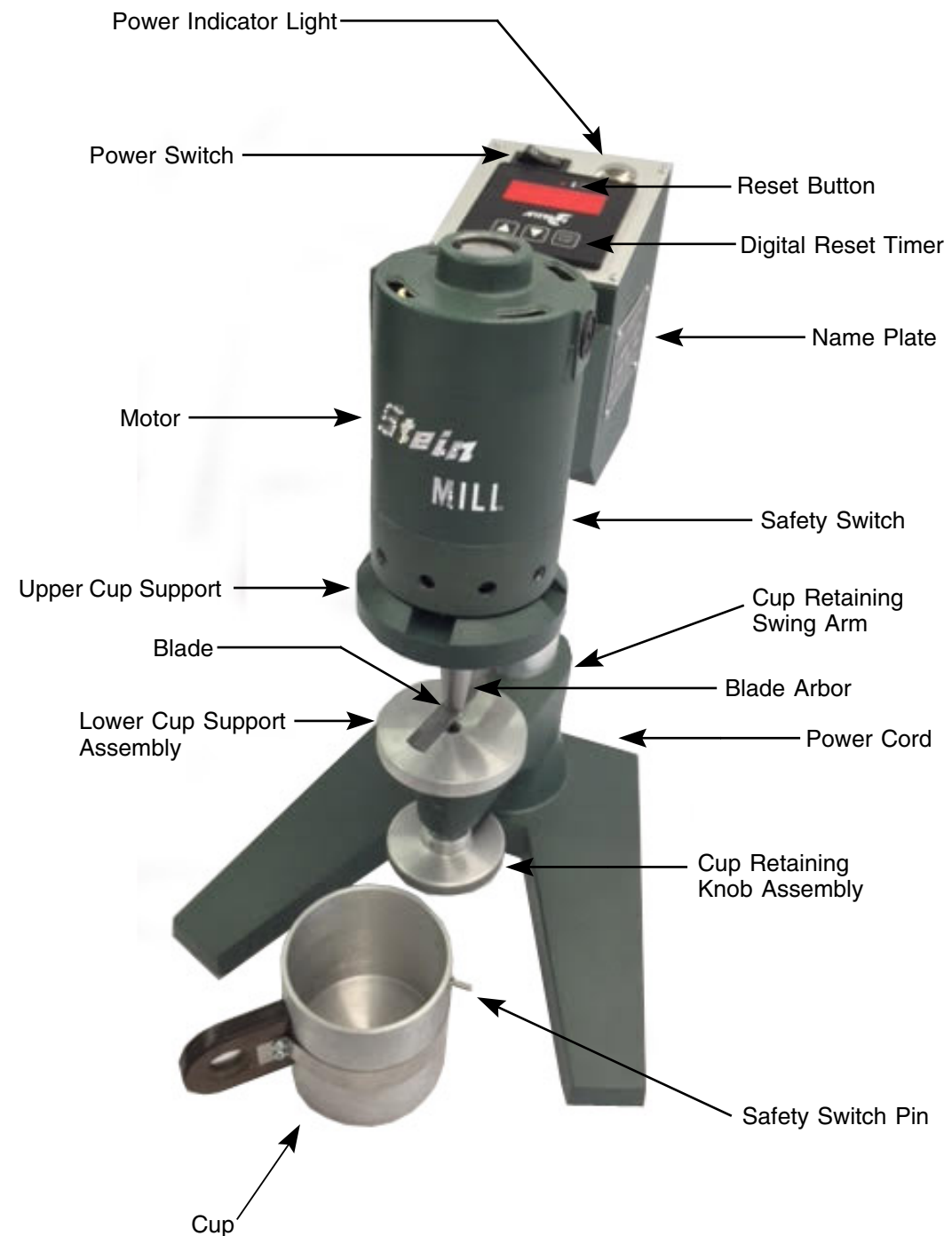
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STEIN M-2 MILL PARTS IDENTIFICATION ILLUSTRATION NO. 1



PARTS LIST FOR M-2 MILL
WHEN ORDERING PARTS, REFER TO
NAME PLATE FOR MODEL AND SERIAL NUMBER

<u>PART NO.</u>	<u>PART</u>
M-200	MOTOR
M-201	UPPER MOTOR BEARING
M-202	LOWER MOTOR BEARING
M-203	MOTOR BRUSHES (2 USED)
M-204	ELECTRIC RESET TIMER
M-205	POWER INDICATOR LIGHT
M-206	POWER SWITCH
M-207	SAFETY SWITCH
M-208	BLADE ARBOR
M-209	UPPER CUP SUPPORT
M-210	UPPER CUP SUPPORT GASKET (TEFLON)
M-211	BLADE
M-212	CUP
M-213	CUP RETAINING SWING ARM
M-214	LOWER CUP SUPPORT ASSEMBLY (INCLUDES SUPPORT, BUSHING, SCREW & WASHER)
M-215	CUP RETAINING KNOB ASSEMBLY (INCLUDES KNOB, THREADED SHAFT & INTERNALLY THREADED BRONZE BUSHING)
M-215A	INTERNALLY THREADED BRONZE BUSHING
M-216	ARMATURE
M-217	BRUSH CAPS
M-218	"TOP" END CAP FOR MOTOR HOUSING
M-219	SAFETY SWITCH HOUSING W / SAFETY SWITCH
M-220	TIMER BUTTONS
M-211	SHAFT-END END PLATE
M-222	BRUSH HOLDER
M-223	SPECIAL MILL BLADE WITH 1" (ONE INCH) CARBIDE TIPS
M-224	POWER CORD

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STEIN M-2 MILL

WHEN THE STEIN MILL IS UNPACKED IT WILL APPEAR AS SHOWN BELOW

ILLUSTRATION NO. 2

Dry Grinding Applications of Stein M-2 Mill

THE FOLLOWING LIST REPRESENTS A PORTION OF THE COMMODITIES THAT HAVE BEEN GROUND SATISFACTORILY BY THE STEIN MILL:

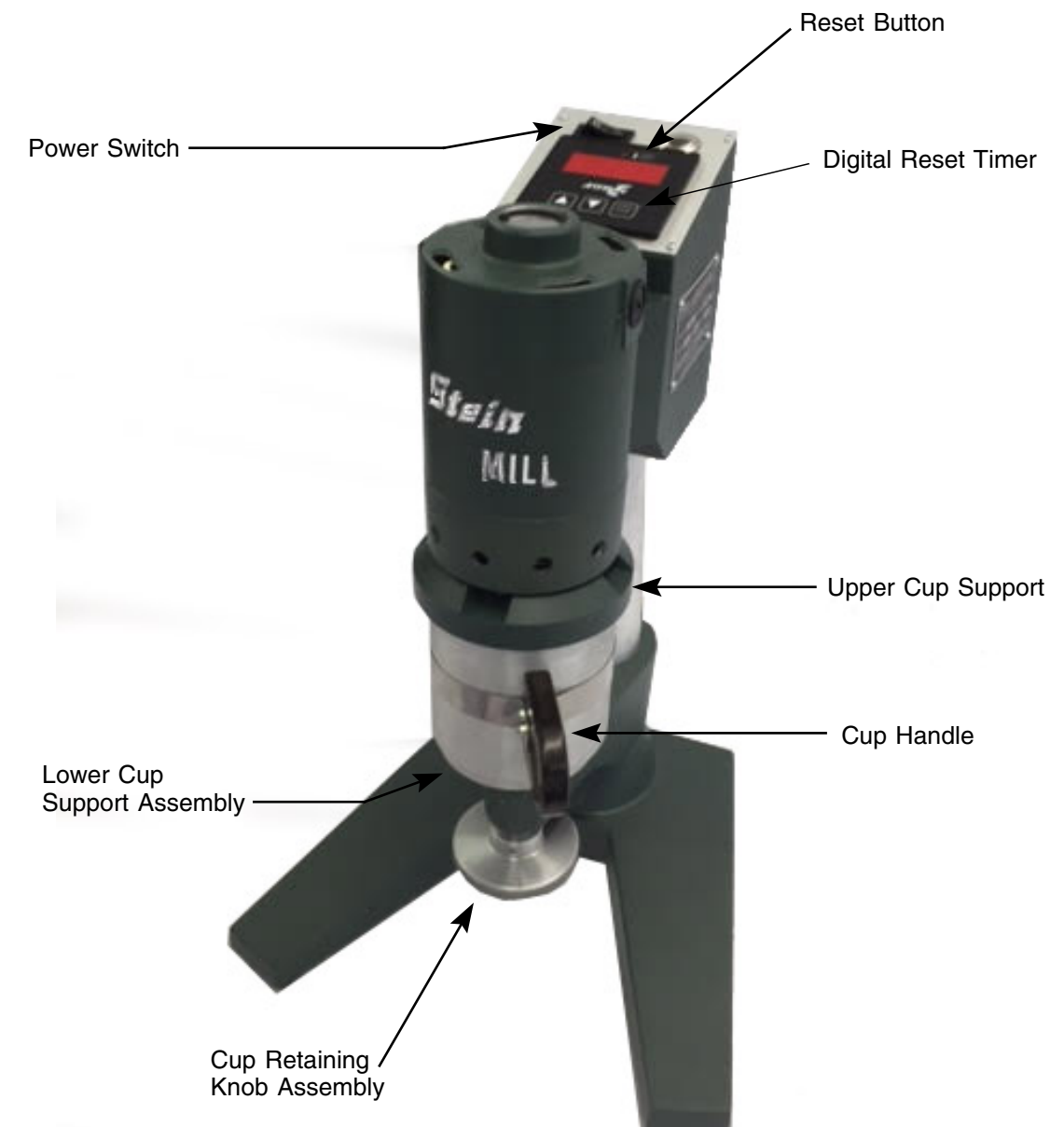
BAHIA GRASS SEED	LUPINE (YELLOW, BLUE, SPECKLED)
BARLEY	MILO
BEANS (CACAO, MUNG, BROWN, NAVY, LIMA, CASTOR, ETC.)	OATS
BEET SEED	PEAS (ALL GARDEN TYPES, CALEY WINTER, COW)
CHUFAS SEED	PEANUTS (ALL VARIETIES)
CITRUS PULP (DRIED)	PEPPER SEED
CLOVER SEED, ALYCE	RICE (UNHULLED & HULLED)
CORN (YELLOW, WHITE, POPCORN, WAXY)	SAFFLOWER SEED
CORN GERM	SESAME SEED
COTTONSEED (DELINTED)	SESBANIA SEED
FESCUE (CHEWING, RED, KENTUCKY)	SOYBEANS
FLAX SEED	SPELTZ (UNHULLED & HULLED)
GRASS SEED	SUNFLOWER SEED
HEMP SEED	WHEAT (ALL VARIETIES)
KALE SEED	WHEAT GERM
LESPEDEZA SEED	CABBAGE SEED

PROCESSED PRODUCTS

PELLET FEEDS
MACARONI UP TO 25% MOISTURE, IF CUP IS CHILLED.

FOR MOST PURPOSES ABOUT 50 GRAMS OF THE SAMPLE ARE GROUND FOR ABOUT THIRTY SECONDS, ALTHOUGH BOTH THIS QUANTITY AND TIME MAY BE VARIED. THE MINIMUM SAMPLE SIZE IS THAT WHICH WILL JUST COVER THE CUTTER BLADES BEFORE GRINDING. THE MAXIMUM SAMPLE SIZE IS ABOUT 200 GRAMS, DEPENDING OF COURSE ON THE DENSITY OF THE SAMPLE.

THE GREATER PORTION OF THE GRINDING IS DONE WITHIN THE FIRST THIRTY SECONDS OF OPERATION; A COMPARATIVELY SMALL REDUCTION IN PARTICLE SIZE OCCURS AFTER THIS TIME.



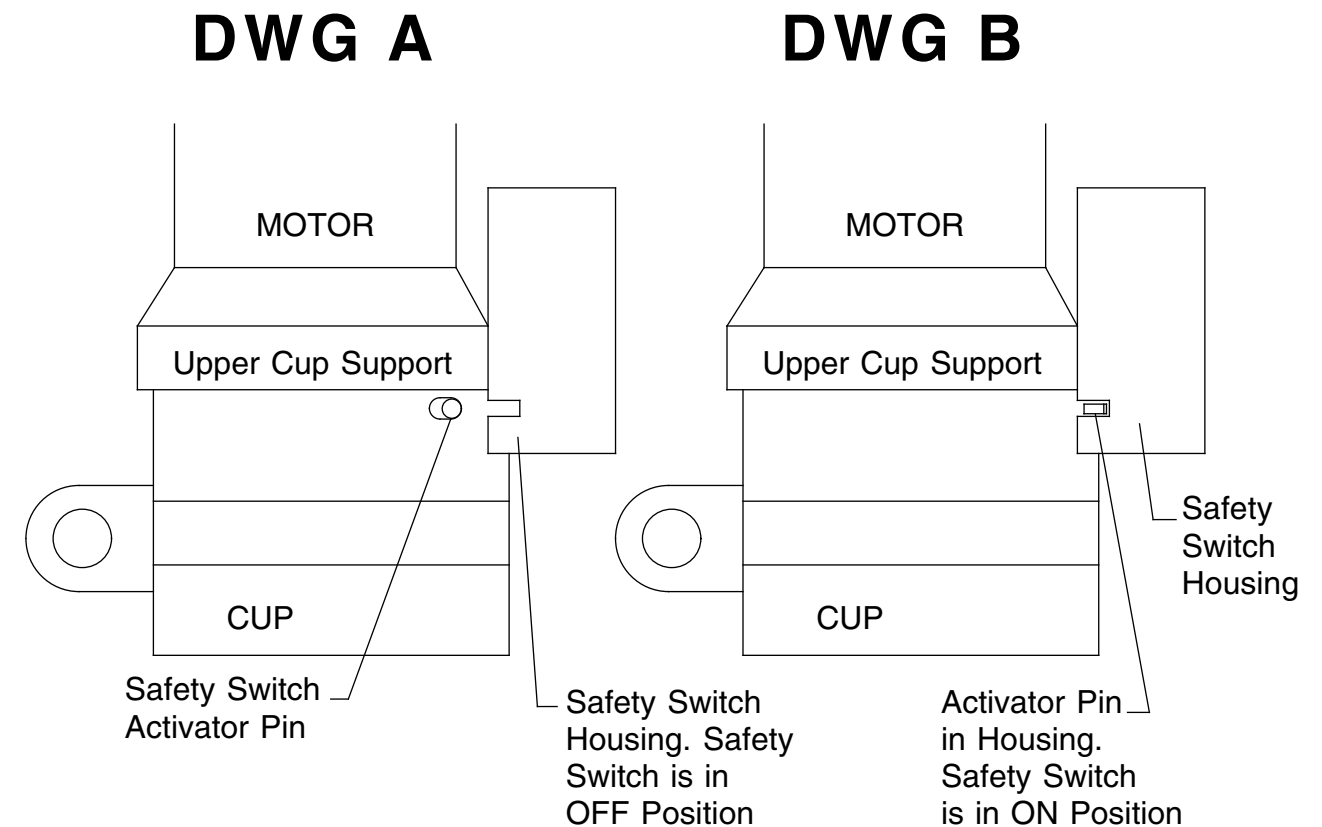
CAUTION

FOR THE OPERATOR'S PROTECTION, THE STEIN M-2 MILL IS EQUIPPED WITH A SAFETY SWITCH WHICH DISCONNECTS POWER TO THE MOTOR WHEN THE CUP IS REMOVED AND THE BLADE EXPOSED.

REVIEW CAREFULLY DWGS A & B ON THE NEXT PAGE, WHICH SHOW HOW TO MAKE THE SAFETY SWITCH TEST. DO NOT OPERATE THE MILL WITH A DEFECTIVE SAFETY SWITCH OR WITHOUT THE ACTIVATOR PIN ON THE CUP. DO NOT TURN POWER SWITCH ON WHEN CUP IS NOT PROPERLY IN PLACE.

CAUTION

WHEN THE STEIN M-2 MILL IS USED AS A GRINDER-EXTRACTOR WITH AN EXPLOSIVE SOLVENT (AS IN THE FAT ACIDITY TESTS USING BENZENE), GOOD VENTILATION SHOULD BE PROVIDED TO REDUCE THE DANGER OF EXPLOSION. THE MOTOR USED IN THIS MILL IS OF THE UNIVERSAL TYPE AND THE BRUSHES ARE EXPOSED TO THE ATMOSPHERE.



SAFETY SWITCH TEST

LOOSEN CUP SUPPORT SLIGHTLY AND TURN CUP CLOCKWISE UNTIL SAFETY SWITCH ACTIVATOR PIN IS VISIBLE. IN THIS POSITION TURN THE POWER SWITCH ON AND PRESS RESET BUTTON. THE MOTOR SHOULD NOT TURN UNDER THIS CONDITION. IF IT STARTS, TURN POWER SWITCH OFF AND HAVE UNIT REPAIRED.