Eberbach

C O R P O R A T I O N

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6010 SHAKER POWER UNIT
Two Speed – 180/280 osc/min, 115V, 60Hz

6015 SHAKER POWER UNIT
Single Speed - 280 osc/min, 115V, 60Hz

6020 SHAKER POWER UNIT
Single Speed - 160 osc/min, 115V, 60Hz

USE AND CARE FOR CATALOG NUMBER:

- **6010 Two Speed Power Unit, 180 & 280 osc/min.**
- **6015 Single Speed Power Unit, 280 osc/min.**
- **6020 Single Speed Power Unit, 160 osc/min.**

INITIAL PREPARATION:

This shaker power unit is furnished without carriers and prior to installation of any carrier the unit should be run. With the switch in the off position (center – off for 6010), plug the line cord into a 115 Volt, 60 Hz source. Turn shaker on by moving switch to the on position or to the "Slow" position for 6010. Proceed to carrier installation.

OPERATION:

Because an oscillating mechanism such as a shaker tends to "walk", caution must be exercised when installing it for use.

Shaking apparatus must be placed on rigid bench or table, or directly on the floor. Suction type rubber feet are provided; therefore, the surface must be free of cracks or voids and must be clean, especially free of dust, oil or wax.

Assuming the bench, table or floor surface is clean and smooth, the shaker will carry 7lbs (the equivalent of four Kahn racks filled) without creeping or walking. With a greater load such as six Kahn racks or the general purpose box filled with more than 7lbs of miscellaneous load, it is recommended an adhesive be used to cement the suction feet to the mounting surface. Although it is not essential, it is recommended all models of this shaking apparatus be cemented to the mounting surface as a precaution against "walking", in the event of an overload. At no time should the load exceed 50lbs.

If it is necessary to cement the shaker to mounting surface, we suggest the use of a rubber bonding cement that can be purchased from your local hardware store or automotive parts supplier. Apply a thin coat to the rubber feet, allow time to become tacky, then set the shaker in place and press down firmly. Allow to dry to manufacturers specifications.

To move the shaker after it has been cemented to a surface, it is necessary to free the feet with a sharp knife or razor blade to keep from injuring the thin rubber edges.

For optimum operation of this shaking apparatus and for long trouble-free life, it is recommended that a minimum load be placed in the shaker when used. For example, if there is one Kahn rack of tubes to be shaken, shake only the one rack and not any empty racks.

OILING AND ALL MAINTENANCE CAN BE PERFORMED BY REMOVING EITHER THE FRONT OR REAR HOUSING PANEL.

BELT INSPECTION:

Inspect belt at each oiling period and replace if actually broken or if the cords are exposed and frayed. Small outer fabric breaks are not harmful.

BELT REPLACEMENT AND ADJUSTMENT:

To replace belt, loosen motor screws and remove belt, then install new belt. Tighten the motor screws but do not tighten belt to the point where the bearings will be overloaded. When belt is tight, the operator should be able to press lightly on the middle of the belt and cause it to bow in an amount equal to the width of the belt.

LUBRICATION:

See exploded view of shaker power unit for points of lubrication. Use a good grade of SAE #30 oil.

Lubrication when shaker is used in continuous duty applications of 100 hours or more:

A. Oil crank bearing through hole in center of bearing bracket every 3 months.

B. Oil the 8 bearings located at the top and bottom of each of the 4 rocker arms every 3 months. Place oil on the shaft next to the bearing.

C. Oil the connecting rod bearings every 3 months. Place oil on the shaft next to the bearing at the upper end and at the crank end of the connecting rod.

Lubrication when shaker is used for intermittent duty:

A. Oil crank bearing through hole in center of bearing bracket every 6 months.

B. Oil the 8 bearings located at the top and bottom of each of the 4 rocker arms every 6 months. Place oil on the shaft next to the bearing.

C. Oil the connecting rod bearings every 6 months. Place oil on the shaft next to the bearing at the upper end and at the crank end of the connecting rod.

REPLACEMENT PARTS LIST FOR 6010, 6015 & 6020

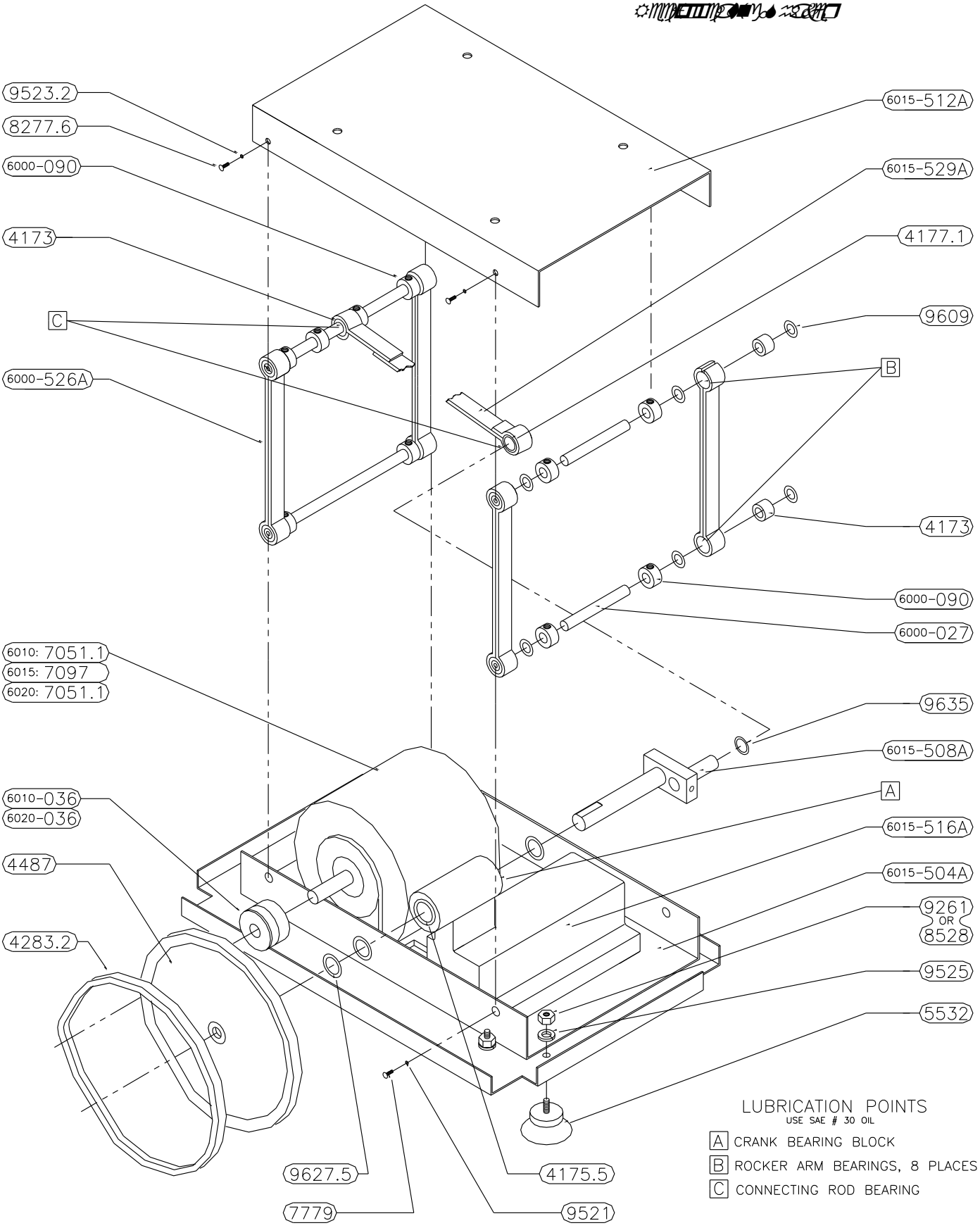
PART or STOCK #	DESCRIPTION	QTY.
4173	Bearing 3/8” ID x 5/8” OD, for Rocker Arm Assembly (6000-526A)	8
4173	Bearing 3/8” ID x 5/8” OD, for Connecting Rod Assembly (6015-529A)	1
4175.5	Bearing 1/2” ID x 3/4” OD, for Crank Assembly (6015-516A)	2
4177.1	Bearing 5/8” ID x 7/8” OD, for Connecting Rod Assembly (6015-529A)	1
4283.2	V-Belt	1
4487	Pulley, 8“	1
5532	Rubber Foot	8
6129	Fuse, 5 AMP (for 6010 & 6020)	1
6130.3	Fuse, 7 AMP (for 6015)	1
6509	Switch, DPST (for 6015 & 6020)	1
6518	Switch, SPDT (for 6010)	1
6646.5	Power Cord #18-3 Wire	1
7051.1	Motor, 2-speed, 1/6 hp 1725/1140 rpm, 115 V, 60 Hz (for 6010 & 6020)	1
7097	Motor, Single Speed, 1/4 hp, 1725 RPM, 115 V, 60 Hz (for 6015 only)	1
9609	Fibre Washer, black, 5/8" OD x 25/64" ID x 1/32" Thick	18
9627.5	Delrin Washer, white, 7/8" OD x 33/64" ID x 1/16" Thick	3
9635	Fibre Washer, black, 1" OD x 41/64" ID x 1/32" Thick	1
6000-027	Spacer Rod	4

6000-526A	Rocker Arm Assembly	4
6010-036	Pulley, Motor (for 6010 & 6015)	1
6015-508A	Crank Assembly	1
6015-512A	Top Plate Assembly	1
6015-516A	Crank Bearing Bracket Assembly	1
6015-529A	Connecting Rod Assembly	1
6020-036	Pulley, Motor (for 6020)	1

CARRIERS AND ACCESSORIES

CAT NO.	DESCRIPTION
6040	Utility Box Carrier
6042	Crosswise Bar Clamp
6044	Lengthwise Bar Clamp
6046	Vertical Rod with Support
6060	Flask Carrier, for 15-125 ml Flasks
6070	Flask Carrier, for 15-250 ml Flasks
6080	Flask Carrier, for 15-500 ml Flasks

*Visit us at **Eberbachlabtools.com** for a complete list of shakers and accessories.*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6000-090
4173
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6015-529A
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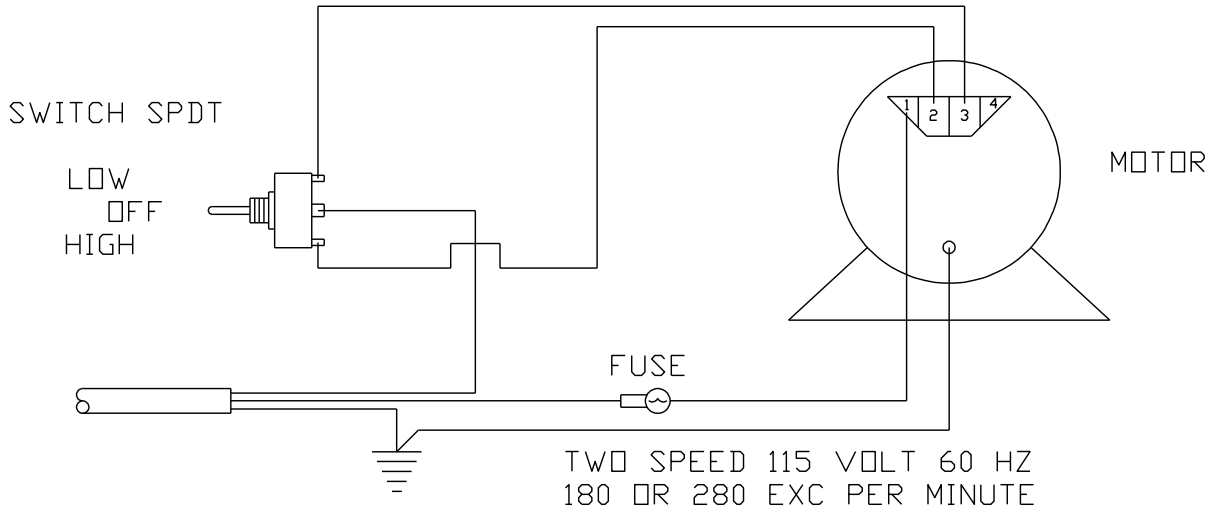
4173
6000-090
6000-027
6010: 7051.1
6015: 7097
6020: 7051.1
9635
6015-508A
A
6010-036
6020-036
6015-516A
4487
6015-504A
9261
OR
8528
4283.2
9525
5532
9627.5
4175.5
7779
9521
LUBRICATION POINTS
USE SAE # 30 OIL
A CRANK BEARING BLOCK
B ROCKER ARM BEARINGS, 8 PLACES
C CONNECTING ROD BEARING

WIRING DIAGRAM CAT# 6010

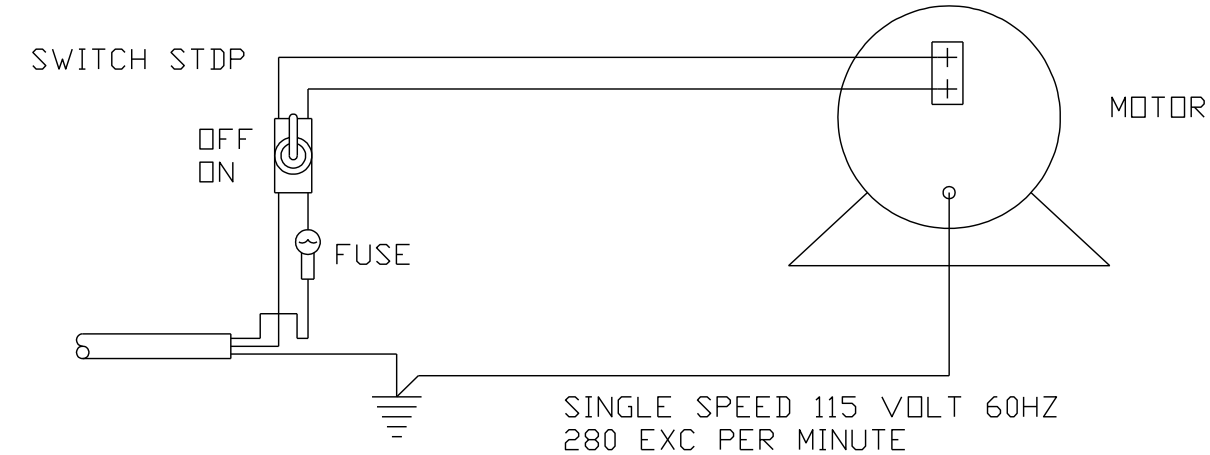
CHECK COVER PLATE
ON MOTOR.



TWO SPEED 115 VOLT 60 HZ
180 OR 280 EXC PER MINUTE
GE MODEL NO. 5XBL016D

WIRING DIAGRAM CAT# 6015

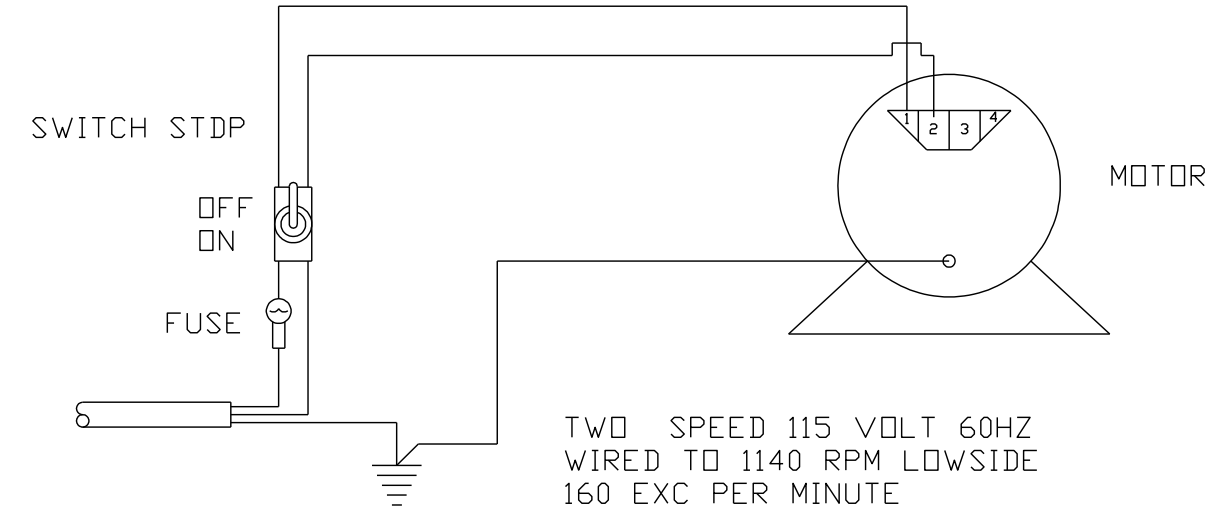
CHECK COVER PLATE
ON MOTOR.



SINGLE SPEED 115 VOLT 60HZ
280 EXC PER MINUTE
GE MODEL NO. 5XBG00BD

WIRING DIAGRAM CAT# 6020

CHECK COVER PLATE
ON MOTOR.



TWO SPEED 115 VOLT 60HZ
WIRED TO 1140 RPM LOWSIDE
160 EXC PER MINUTE
GE MODEL NO. 5XBL016D