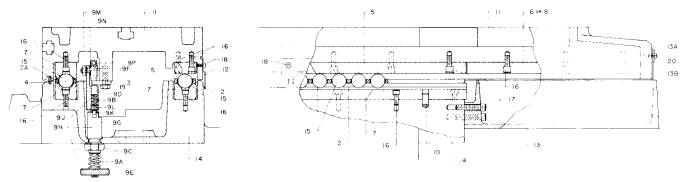
BALL-TRACK TABLE/SADDLE WAY SYSTEM PARTS LIST AND MAINTENANCE INSTRUCTIONS



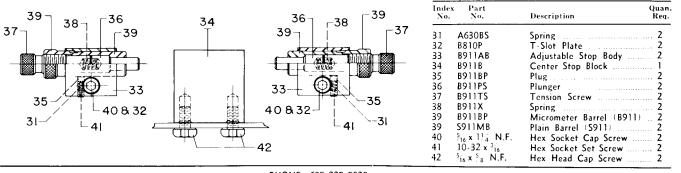
SURFACE GRINDER MODELS

\$612B, \$612HB, \$714B, \$714HB

S618B, S618HB, S718B, S718HB, S918B, S918HB

	JU12	D, 3012		3018B, 3018HB, 3/18B, 3/18HB, 3918B, 3918HB				
Index No.	Part No.	Description	Quan. Req.	Index No.	Part No.	Description	Quan Req.	
2	BA910BD	Bearing Cage (18 Hole)	1	2	B2010BC	Bearing Cage (19 Hole)	1	
2A	B2010BC	Bearing Cage (19 Hole)		2 A	B2010BD	Bearing Cage (20 Hole)		
3	BA930DBL	Hold Down Bar		3	B2030DBL	Hold Down Bar		
4	BA930HE	Saddle Way Dust Shield	1	4	B2030HE	Saddle Way Dust Shield		
5	BA930WF	Flat Way Insert		5	B2030WF	Flat Way Insert		
6	BA930WFE	Flat Way Extension		6	B2030WFE	Flat Way Extension		
7	RT310V	Vee Way Insert		7	B2030WV	Vee Way Insert		
8	BA930WVE	Vee Way Extension		8	B2030WVE	Vee Way Extension		
9	BA930D1	Hold Down Assembly		9	BA930D1	Hold Down Assembly		
9A	B610PS	Spring	1	9 A	B610PS	Spring	1	
9B	B911W	Spring		9B	B911W	Spring		
9C	B923EN	Nut		9C	B923EN	Nut		
9D	BA930DP	Plug — Nylon		9D	BA930DP	Plug Nylon		
9Ē	BA930DN	Adjusting Nut		9E	BA930DN	Adjusting Nut		
9F	BA930DR	Stud for Roller	1	9 F	BA930DR	Stud for Roller		
9G	BA930DST	Threaded Sleeve	1	9G	BA930DST	Threaded Sleeve		
9H	BA930DTS	Tension Rod		9H	BA930DTS	Tension Rod		
9]	BA930DHW	Head		91	BA930DHW	Head		
9K	K143EP	Plug		9 K	K143EP	Plug		
9L	3/8 x 3/8 NC	Hex Socket Set Screw		9L	3 8 x 3 8 NC	Hex Socket Set Screw		
9M	1/4 N.F.	Hex Jam Nut (H,B,)		9M	1/4 N.F.	Hex Jam Nut (H.B.)		
9N	No. 12 N.F.	Washer (1/4 x 1/2 x 16 ga)		9N	No. 12 N.F.	Washer 11/4 x 1/2 x 16 ga1		
9P	S5KDD	Ball Bearing (1.125 O.D.)	1	9P	S5KDD	Ball Bearing (1.125 O.D.)		
10	RT305DP	Dowel Pin		10	RT305DP	Dowel Pin		
11	S610RB	Table		ii	S710RB	Table (\$618B, \$618HB, \$718B, \$718H	4B) 1	
12	BA930HB	Saddle Way Dust Shield		11	S8010RB	Table (\$918B, \$918HB)		
13	\$2030EB	Saddle Extension	2	12	S930HB	Dust Shield		
13	S2030EH	Saddle Extension (Hydraulic Models)		13	\$2030EB	Saddle Extension		
13A	S2030SB	Bracket for Skirt		13	S2030EH	Saddle Extension (Hydraulic Models)		
13B	\$2030\$L	Rubber Skirt — Left Side		13A	S2030SB	Bracket for Skirt		
13B	\$2030SR	Rubber Skirt — Right Side		13B	\$2030\$L	Rubber Skirt — Left Side		
14	BA930VB	Saddle (S612B, S612HB)		13B	S2030SR	Rubber Skirt — Right Side		
17	DA730 V D	(BA930VHB on Hyd.)	1	14	B8030VB	Saddle (S618, S618HB)		
14	S830VB	Saddle (\$714B, \$714HB)	••••••		D0030 V D	(B8030VHB on Hyd.)	1	
17	303040	(S830VHB on Hvd.)	1	14	S8030VB	Saddle (\$718, \$918) (\$8030VHB on		
15	3/4"	Precision Steel Ball		15	34''	Precision Steel Ball		
16	10-32 x ½	Hex Socket Cap Screw		16	10-32 x 1 2	Hex Socket Cap Screw		
17	10-32 x / ₂ 1/4 x 1/4 N.F.	Hex Socket Cap Screw		17	1/4 x 11/4	Hex Socket Cap Screw		
18	10-32 x 1/4	Button Head Hex Socket Cap Screw		18	10-32 x 1/4	Button Head Hex Socket Cap Screw		
19	10-32 x /4 1/4 x 1/2 N.F.	Hex Cap Screw		19	1/4 x 1/2 N.F.	Hex Cap Screw		
20	10-32 x 1/4	Slotted Round Head Machine Screw		20	10-32 x 1/4	Round Head Machine Screw — Slotted		

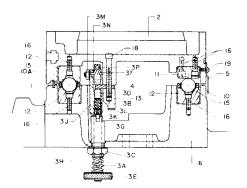
B911 SPRING LOADED STOPS ASSEMBLY (TOOL GRINDERS) S911 SPRING LOADED STOPS ASSEMBLY (SURFACE GRINDERS)

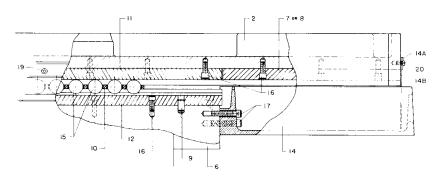


K. O. LEE COMPANY

PHONE: 605-225-5820 200 S. HARRISON ST.

ABERDEEN, S. D. 57401





BA900B, B2000B and B6000B SERIES TOOL GRINDERS

BA900B SERIES

B2000B and B6000B SERIES

Index No.	Part No.	Description	Quan. Req.	Index No.	Part No.		Quan Req.
1	BA930HE	Saddle Way Dust Shield	2	1	B2030HE	Saddle Way Dust Shield	. 1
2	BA910RB	Sub Table		2	B2010B	Sub Table	
4	BA930DBL	Hold Down Bar		4	B2030DBL	Hold Down Bar	
5	BA930HB	Saddle Way Dust Shield		5	S930HB	Saddle Way Dust Shield	
6	BA930VB	Saddle		6	B8030VB	Saddie	
7	BA930WFE	Flat Way Extension	2	7	B2030WFE	Flat Way Extension	. 2
8	BA930WVE	Vee Way Extension	2	8	B2030WVE	Vee Way Extension	. 2
10	BA910BD	Bearing Cage (18 Hole)	1	10	B2010BC	Bearing Cage (19 Hole)	1
10 A	B2010BC	Bearing Cage (19 Hole)	1	10A	B2010B D	Bearing Cage (20 Hole)	
11	BA930WF	Flat Way Insert	1	11	B2030WF	Flat Way Insert	. 1
12	RT310V	Vee Way Insert	3	12	B2030WV	Vee Way Insert	. 3
13	S 610 R	Gear Rack	1	13	S710R	Gear Rack	. 1
3	BA930D1	Hold Down Assembly		9	RT305DP	Dowel Pin	4
3 A	B610PS	Spring	1	14	\$2030EB	Saddle Extension	2
3B	B911W	Spring	2	14	S2030EH	Saddle Extension (Hyd.)	
3C	B923EN	Nut	1	14A	S2030SB	Bracket for Skirt	
3D	BA930DP	Plug — Nylon		14B	\$2030SL	Rubber Skirt — Left Side	
3E	BA930DN	Adjusting Nut		14B	S2030SR		
3F	BA930DR	Stud for Roller		15		Rubber Skirt — Right Side	
3G	BA930DST	Threaded Sleeve			3/4"		
3H	BA930DTS	Tension Rod		15	3/4"	Precision Steel Ball (B2000, B6060 Series)	
3 J	BA930DHW	Head		16	10-32 x ½	Hex Socket Cap Screw	42
3K	K143EP	Plug		17	1/4 x 11/4 NF	Hex Socket Cap Screw	8
3L	3/8 x 3/8 NC	Hex Socket Set Screw		18	1/4 x 2 NF	Hex Socket Cap Screw	
3M	1/4 NF	Hex Jam Nut (H.B.)		19	10-32 x 1/4	Button Head Hex Socket Cap Screw	
3N	No. 12 NF	Washer (1/4 x 1/2 x 16 ga)			, -	•	
3 P	S5KDD	Ball Bearing (1.125 O.D.)	1	20	10-32 x 1/ ₄	Slotted Round Head Machine Screw	6

MAINTENANCE INSTRUCTIONS

HAND POWERED TABLE TRAVEL GRINDERS

As soon as you have received your machine, move the table to the extreme right side of the machine, and check the level of way lube in the channel area surrounding the hardened ways in the saddle. This should be maintained near the top of the overflow space cut into the saddle extension casting. The oil provides a washing action on the balls, thus keeping them and the way contact line free of dust. Add way lube as necessary.

HYDRAULICALLY POWERED MACHINES OR MACHINES WITH PRESSURE LUBRICATION SYSTEM

- These models have special piping to the center of the 'V'-ways, and receive regular amounts of oil or way lube from the hydraulic system or power way lube system. Periodic inspection is advisable and may be done in the following manner.
- be done in the following manner.

 2. It is necessary to disengage the piston rod from the table at the right end of the table. Remove the thumb nut, move the table slightly further to the right, and remove the collar from the piston rod (reach under the table end to locate on rod). Move the table to the extreme right until the saddle table way reservoirs become visible. The level of lubrication should be maintained at the top of the overflow cut-out section of the saddle extension casting. With hydraulic machines, the level of way lube is approximately ½" deep from the bottom. If the level appears to be low, adjust the oil flow valve for the ways, (Part No. BA931W, Index No. 18, Pages 4, 10, Hydraulic Manuals) on hydraulic tank for increased flow to the table reservoirs. Similarly, attempt to determine if pressure lubrication system (one-shot, automatic one-shot, etc.) is putting out the proper amount of way lube.

SUGGESTED INSPECTION AND CLEANING SCHEDULE

Monthly:

1. Ways should be inspected at least once per month if the machine is in continuous use.

Clean the bottom of the hardened TABLE 'V' and flat ways, at least once per week by moving the table to the extreme ends of its travel, left and right, and wiping the ways with a clean cloth.

Yearly:

- Clean out the hollow SADDLE EXTENSIONS on each side of the table. Move the table to one end and then the other, uncovering these extension areas. These hollow extensions will accumulate some dirt and oil drippings from the ways, and need to be cleaned periodically. Extensions are drained back into the saddle on hydraulic models.
- tensions are drained back into the saddle on hydraulic models.

 2. Remove the table from the saddle by removing the hand nut (Index No. 3E) from the table roller hold-down tension rod end (Index No. 3H), under the saddle, by counterclockwise turns. Be careful to disattach all items attached to the table, such as coolant guards and the hydraulic piston rod. Remove the tensioning spring and lift the table straight upward until the hold-down rod clears the saddle sleeve hole. NOTE: Because of the nylon tensioning plugs, the entire assembly will hang onto the gear rack steel hold down bar (Index 4). Set the table on its side and inspect its ways for wear. Inspect the hardened ways and balls in the saddle for signs of wear. Clean out the saddle way reservoirs. Replace with clean oil or way lube, and replace the table back onto the saddle by reversing the steps just taken to remove the table. Tighten the hand nut of the table roller hold-down assembly until the spring is fully compressed, and then loosen it by approximately 34 of a turn.

SERVICE ASSISTANCE

If you perform regular maintenance to insure that the grinder Ball-Track way system is kept lubricated with clean oil or lubricant, it will last for many years. If you have maintenance or replacement difficulties, please contact either your distributor or our factory office, giving complete information as to model and serial number of your machine, and description of the problem.

K. O. LEE COMPANY
Form BT/SW-1 - 11-79 - W

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Litho in U.S.A.