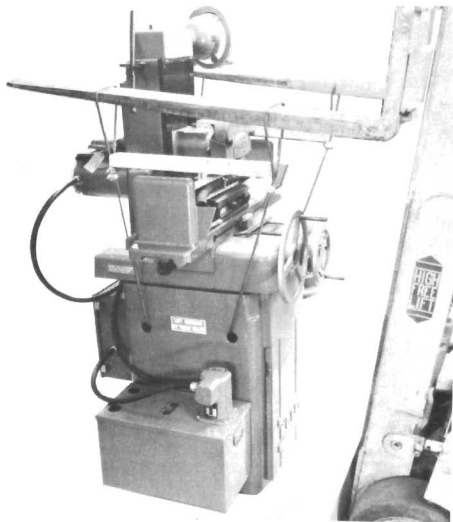
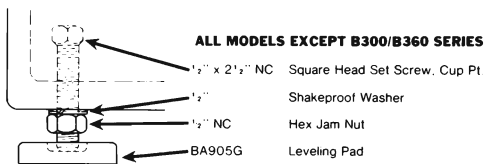


## INSTALLATION INSTRUCTIONS

### I. UNCRATING

- A. After the top and sides of the crate have been removed from the skid leaving the machine standing free, remove all wrapping materials and read unskidding and lifting instructions attached to machine.
- B. Remove bolts holding machine to the skid by holding the bottom of bolt-heads (**under skid**) with a wrench and turning off the nuts from the inside of the base of the machine. Exported models may have bolts passed through skid members. Bolt nuts must be turned off inside the base and machine lifted from the skid.
- C. Lifting, Moving and Leveling Instructions for Models except B300:
  1. If possible, avoid removing table/saddle hold down bolts until machine is moved to final location.
  2. **Do not attempt to pick up machine by its saddle or table.** Use the two holes on either side of the base cabinet for lifting with cables or ropes when holes are accessible. Use blocks of wood on side of base or between cable to keep them away from saddle sides or table. See suggested procedure for lifting with two cables by forklift below.
  3. After the machine has been lifted by cables or ropes and moved to its final position, do not lower until square head set screws inside the base cabinet have been turned down below the bottom of the base, approximately  $\frac{3}{4}$  inch. Place the washer and hex jam nut on each of the set screws protruding through the cabinet, but do not tighten against bottom of base. Leveling pads, nuts and washers are in marked carton in base cabinet.
- D. Remove the hold down rods and clamps. Remove any protecting boards. On models with ball bearing mounted tables, do not remove hold downs until machine is located at final spot and leveled.



**HAND POWERED TABLE TRAVEL GRINDERS WITH BALL TRACK:** 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 way contact line free of dust. Add way lube as necessary. Extra light way lube Part No. 2671 must be used.

- E. Remove the shipping anti-rust lubricant from all non-painted surfaces by using a standard solvent.

## II. COMPLETING ASSEMBLY OF GRINDER COMPONENTS

- A. Refer to this manual, pages 96 to 99, or to other grinder literature for correct standard equipment breakdown. Do the same for any fixtures or tooling which are not standard with the machine. NOTE: Check all cardboard cartons for items which are pictured and listed. Check inside of all coolant tanks for parts. Occasionally standard accessory equipment will be included in these cartons.
- B. Pulleys and belts: Place V pulleys on the motor and the quill shafts, using keyed washers and special nuts. NOTE: CHOOSE PULLEYS ONLY AFTER CONSULTING THE MACHINE R.P.M. CHART. Visually check the alignment by rotating the motor shaft by hand or by power with the belt in place.
- C. Consult Section Four, Part III, pages 13 to 17 for the installation of wheel and pulley arbors onto spindle shafts.
- D. Hydraulic Machines: See pages 6, 11, 12 of "Instruction Manual" HPL-3 for installation and trouble-shooting information. See Section Four, Part III, page 11 for operating instructions.

## III. FOUNDATION AND LEVELING

- A. Read any set-up instruction cards on the machine. The base of most models is supported by four cast pads on the floor and four leveling screws turned into each corner of the base. If a spirit level reveals that the table is not level, make adjustments according to machine tags or "B" below.
- B. LEVELING: Place leveling pads on floor underneath the bolt locations and lower machine carefully. Adjust the set screws by wrench on their square head, inside of base cabinet, and when machine is level, lock the hex jam nut underneath the cabinet on all four screws. See diagram on page 1. All four screws must be firmly contacting pads in order for machine to function properly.
- C. B300 series grinders have three integral base cabinet pads. Leveling must be accomplished by placing metal plates under one or more of the pads.

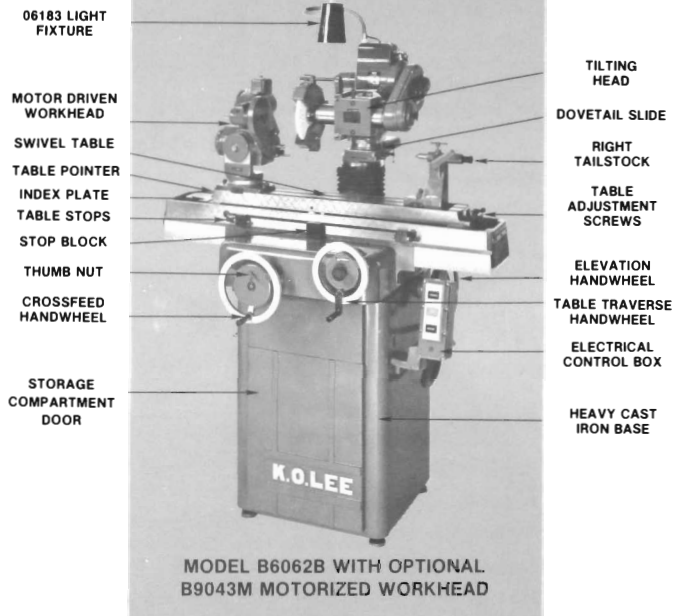


PHOTO 1