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MAINTAINING YOUR KLOPP

When performing maintenance on your KLOPP please keep in mind that excessive oil and/or grease can cause the machine not to work properly. For example, there are two places where plastic gears mesh together, and do not need any kind of lubrication. In fact, grease or oil can cause the gear teeth to slip, and possibly strip out. You should avoid having grease or oil get into the teeth where the gears mesh together; check them occasionally to make sure they stay clean. Also, there are only three places where oil should be used, and then only when necessary and in very small amounts (see below). Lubrication such as lithium grease or WD-40 should never be used on a KLOPP machine. It may also be helpful for you to use compressed air once a week to blow out excess dust and dirt that may accumulate in the machine.

MAINTENANCE AND SERVICE

The main reason to purchase a KLOPP Coin Machine is to save time. Do not defeat this purpose by allowing your machine to become excessively dirty. Coins can be covered in oil and dirt from the public's hands, and rub off onto the surfaces of the machine. As well, dust and lint from the air can settle on the machine. The following easy maintenance tips can help ensure smooth operation of your KLOPP Coin Machine:

- At least once a month, clean the surfaces that come in contact with coins. Use a clean, lint-free cloth dampened with rubbing alcohol for the Coin Tray and the Disc. Use KLOPP Klean Rubber Cleaner for the black Upper and Lower Discharge Wheels, and the rubber Disc Inserts. This will ensure that coins are properly pinched and pulled through the counter. At the same time, clean the black Disc Inserts with KLOPP Klean Rubber Cleaner.

LUBRICATING YOUR KLOPP

Every three-to-six months, or if you hear a squealing or grinding sound, lubricate the rotating shafts underneath your machine.

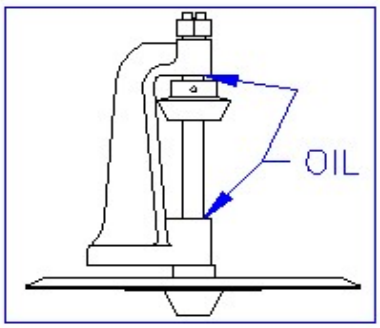
For Manual Models (CM, CMB, D & D2)

Turn your KLOPP upside down. Put two drops of KLOPP Oil (or Machine Oil) on the rotating shaft at the locations shown in Drawings: A & B. Rotate the wheel to work the oil in, then wipe off any excess oil. ***Do not over oil.*** Note: Drawing: B applies to machines purchased after 2004. For machines prior to 2004, put 1-2 drops on the wheel shaft where it passes through the bracket and rotate. Wipe off any excess oil. ***Do not over oil.***

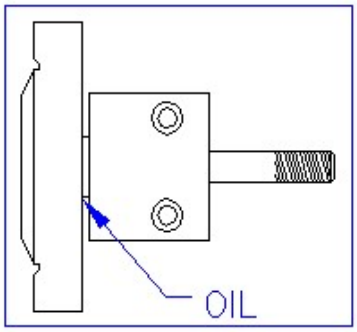
For Electric Models (CE, CEB, CECR, KK, DE, & DE2)

Turn your KLOPP upside down. Put two drops of KLOPP Oil (or Machine Oil) on the rotating shafts at the locations shown in Drawing: A. **Note Drawing: C.** Loosen the nut 1/4 turn (11/16" wrench needed) and then remove the hex-head bolt leaving the nut in position on the bolt. Look through the hole in which the bolt was located. You will see an oil retaining wadding. Put 10-15 drops of KLOPP Oil (or Machine Oil) on top of the wadding. Replace the bolt and retighten nut. Leave the counter upside down for a few minutes so that the oil can work its way down through the wadding and onto the shafts. ***Do not over oil.*** Wipe off all excess oil. Be sure oil does not get on either the large black or white wheels or the belt from the motor to the pulley. To remove excess oil, wipe off the belt and white plastic wheel with a clean cloth lightly dampened with alcohol. Use KLOPP Klean Rubber Cleaner on the black rubber wheel. **If you have the Drive Unit configuration as shown in Drawing: D, you should not need to lubricate this assembly, unless you hear a squealing or grinding sound.**

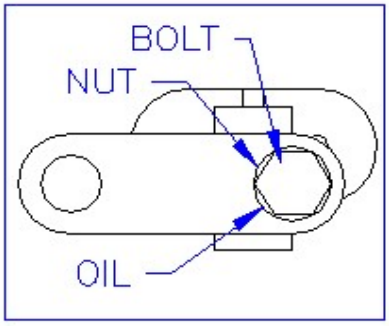
Even though KLOPP machines consist of cast aluminum, hardened steel and literally last forever, Factory Service will still be needed from time to time. Factory technicians with years of experience perform KLOPP servicing. Service typically consists of replacing worn or broken parts, cleaning and oiling all mechanical parts, and resetting the internal register. Repair costs (parts/labor/shipping) typically range from $375^{\underline{00}}$ to $475^{\underline{00}}$, depending on the age and condition of the machine. The cost may be higher if a major component needs to be replaced. **KLOPP Klean is available for $8.00 for a 4-ounce bottle. KLOPP Oil is available for $5.00 for a 1-ounce bottle.** The turnaround time for KLOPP Service is typically 3-5 business days, which means you will not be without your machine for weeks, counting coins by hand.



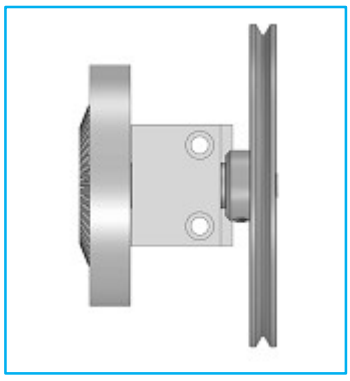
DRAWING: A



DRAWING: B



DRAWING: C



DRAWING: D