

## Replacing the Meter on Klopp Models CM, CE, D, D-2, DE, DE-2 Built Prior to July 1988

If your KLOPP was built prior to July 1988, the Meter originally installed on your machine has been discontinued. To install a new Meter on your old KLOPP, it is necessary to raise the height of the pad on which the old Meter was located. Included in your New Meter Kit is an Adapter Height Plate, (8) Mounting Screws, a set of Meter Gears and a 1/16" Allen Wrench.

You will need the following tools:

- 1/8" Flat Blade Screwdriver
- #2 Phillips Screwdriver
- 1/16" Allen Wrench (included)

Follow these Instructions to install your new Meter:

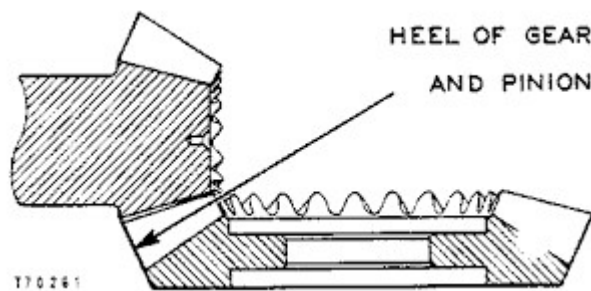
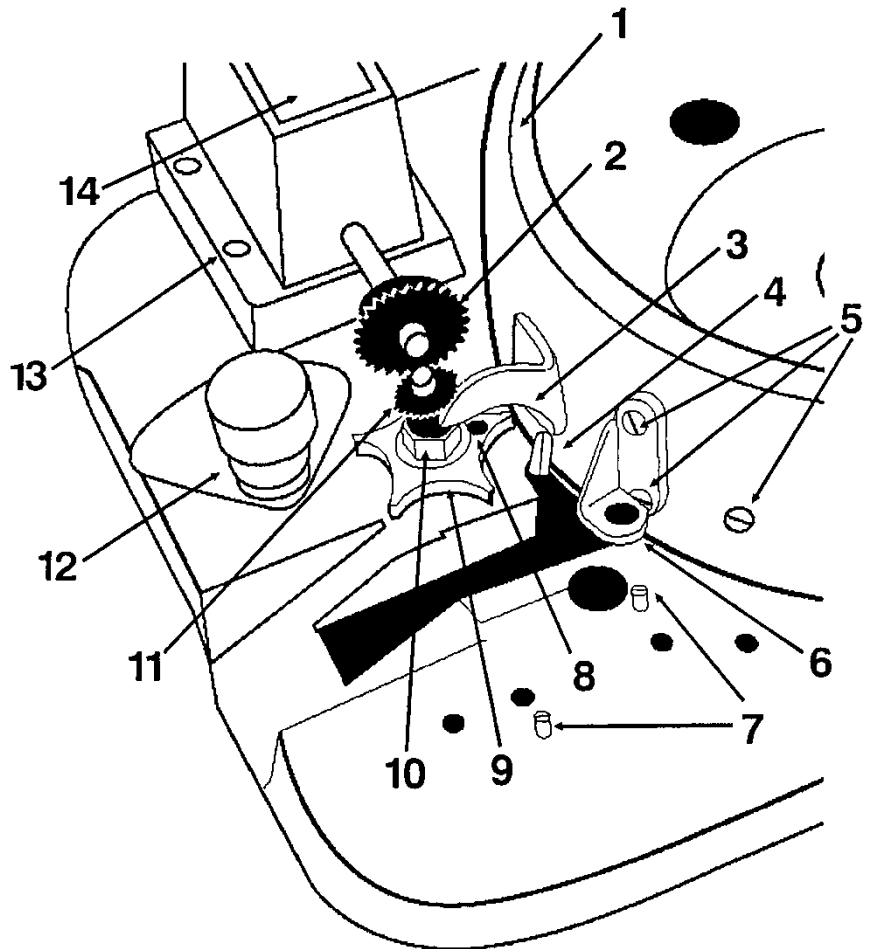
1. Remove the (2) screws that secure the Coin Gauge Cover in position and lay aside the cover and screws. The cover has already been removed in the drawing on the other side of these instructions. (The Coin Gauge Assy has also been removed in the drawing for clarity, but does not need to be removed for this procedure.)
2. Remove the (4) screws holding the old Meter in position on the Meter Pad on top of your Counter and remove meter.
3. Place the Adapter Height Plate on top of the old Meter Pad so that the counter-bored holes line up with the (4) mounting holes in the Meter Pad. Make sure that the Adapter Height Plate perimeter matches the old Meter Pad. If it doesn't, turn the Adapter Height Plate 180°.
4. Secure the Adapter Height Plate in position with the (4) new screws provided in your Kit. Tighten securely.
5. On the vertical Drive Star Shaft, locate the small Pinion Gear [11] that previously meshed with the large Bevel Gear on the old Meter. Using the 1/16" Allen Wrench, loosen, but DO NOT REMOVE, the (2) set screws that secure the small Pinion Gear on the vertical Drive Star Shaft and remove pinion gear. Install the new Pinion Gear on the Drive Star Shaft until it touches the steel nut below it. DO NOT tighten the set screws.
6. Place the new Meter [14] on top of the Adapter Height Plate. Center it left-to-right while also ensuring both shafts are aligned and secure with (4) screws. Snug screws but do not overtighten. Overtightening will damage meter base.
7. Push the Bevel Gear on the new Meter toward the end of the shaft until it meshes with the small Pinion Gear on the vertical Drive Star Shaft. It may also be necessary to move the small Drive Star Shaft Pinion Gear upwards to mesh properly with the large Meter Bevel Gear. Gear teeth must mesh evenly and not extend above or below the teeth on the interlocking gear (See diagram on page 2).  
**IMPORTANT** -- these gears should **fully** mesh, but must also have a very slight amount of play. This will avoid binding of the gears in case of any wobble of either shaft.
8. Set the Meter on all zeros. Using the 1/16" Allen Wrench, snugly tighten the set screws on the Meter Bevel Gear and the Drive Star Shaft Pinion Gear. **DO NOT OVER TIGHTEN.**
9. Run coins through your Counter to test for proper operation
10. Replace the Coin Gauge Cover.

If you need help, call the KLOPP Service Department at **800-356-9080**, 9 to 4, EST

## Counter Top (Coin Gauge Removed): Machine Illustration

### Item #    Description

- 1    Hopper/Horn Assy
- 2    Meter bevel Gear
- 3    Hopper Horn
- 4    Coin Stop Assy
- 5    Shield Mounting Screws
- 6    Hopper Spring Bracket
- 7    Coin Gauge Pins
- 8    Hole in Drive Star
- 9    Drive Star
- 10   Drive Star Nut
- 11   Drive Star Shaft Pinion Gear
- 12   Coin Stop Release Knob Assy
- 13   Meter Mounting Screws
- 14   Meter Assy



Proper Gear Mesh