Department of consumer and corporate affairs / Ministère de la consommation et des corporations

STANDARDS BRANCH - DIRECTION DES NORMES

NOTICE OF APPROVAL

G-81

OTTAWA June 29, 1971

MERCURY INSTRUMENTS, INC. UNIVERSAL MOUNTING BRACKET WITH REVERSING GEARS

Description

The universal mounting bracket is designed to facilitate Mercury Instruments auxiliary devices to be mounted on meters whose output shaft rotation is either clockwise or counter-clockwise.

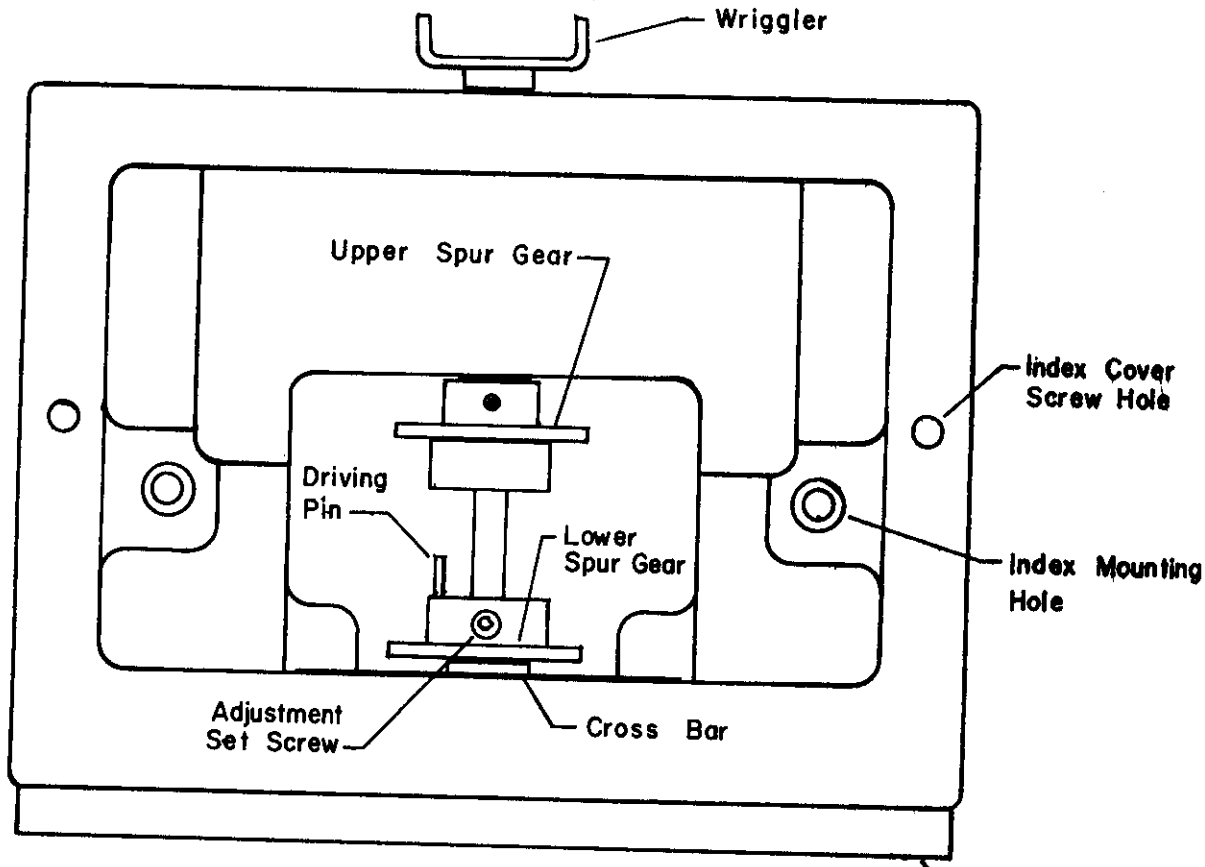
The mounting bracket comprises a standard clock-type register, bevelled reversing gears and a base plate attached to the housing. The base plate is drilled so that it may be installed on various meters. Adapter plates may have to be added on some meters to ensure proper mounting of the devices. The base plate itself is attached to the bracket housing by four screws which permits its rotation in 90° steps thus allowing the instrument and its register to face in different directions.

The illustration in this circular shows the position of the gears for clockwise and counter-clockwise rotation of the meter's output shaft. In the initial design of the universal mounting bracket spur gears were used, however, all approved brackets shall have bevelled gears.

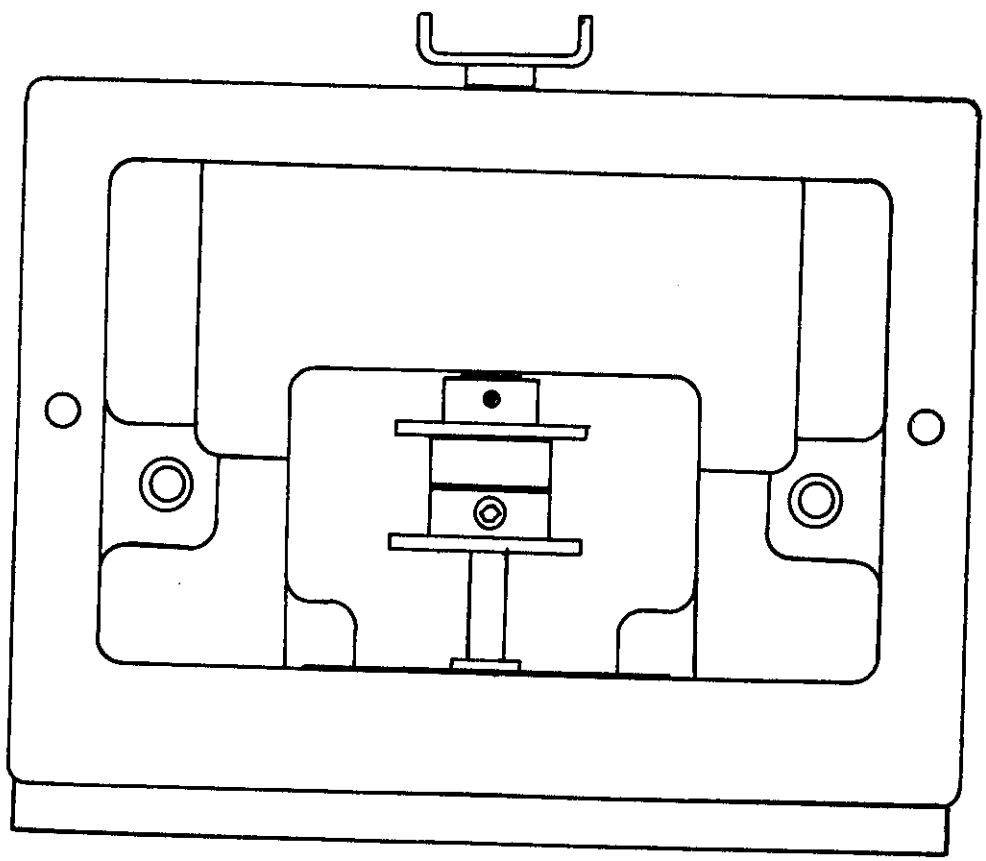
The following procedure is suggested when establishing required position of the bevelled gears. Determine the rotation of the meter looking down on the driving dog. If the driving dog rotates clockwise, the LOWER GEAR in the Mounting Bracket should be DOWN against the cross bar. If the driving dog rotation is Counter-Clockwise, the LOWER GEAR should be UP against the hub of the upper gear.

To Change Rotation:

1. Remove the transparent index cover.
2. Remove the two (2) Thumb-screws and lift out the index.
3. Use the wrench located in the recorder door to loosen the set screw in the LOWER GEAR.



Gear Position For CLOCKWISE Rotating Meters



Gear Position For COUNTER-CLOCKWISE Rotating Meters

4. Shift the gear down against the cross bar or up as the case may be. When shifting up, the driving pin in the lower gear must engage the mating hole in the hub of the upper gear.

5. Tighten the set screw on the flat of the shaft.

6. Replace the index. Use caution to be sure the spur gears and the face gear are properly meshed.

7. Check engagement for ten (10) full rotations.

It shall be the responsibility of the utility to ensure that the direction of rotation of the register is correct, the gears are properly adjusted and the register and other vulnerable points are properly sealed to prevent tampering by unauthorized persons.

Approval granted to: Parkinson Cowan (Canada) Ltd.,
Chatham, Ontario.

J.S.T. Swanson, P. Eng.,
Chief, Standards Laboratory,
Standards Branch.

W.J.S. Fraser,
Chief, Electricity and Gas Division,
Standards Branch.

Ref: SL-100-107 C
SE-85-96