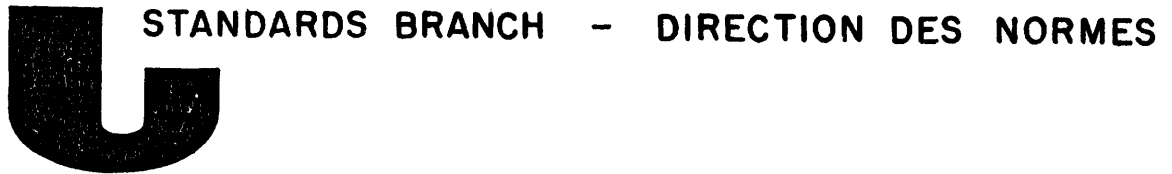




Department of consumer and corporate affairs / Ministère de la consommation et des corporations



## NOTICE OF APPROVAL

G-80

OTTAWA May 12. 1971

MERCURY INSTRUMENT INC., DUAL INSTRUMENT DRIVE BRACKET,  
MODELS 100 and 101

### Description

The Dual Instrument Drive Brackets are designed to permit two auxiliary devices to be driven simultaneously from a single meter. A photograph in this circular shows the bracket model 100 with two auxiliary devices attached.


Both models perform the same function, but model 100 is equipped with a suitable register which shows the volume passed through the meter at line conditions. The bracket model 101 has no register and is fitted with a type 'M' mounting bracket only, as shown on a drawing in this circular.

The direction of rotation of each output wiggler on the Dual Drive Bracket may be changed by engaging different miter gears, as explained in the manufacturer's instructions listed below the drawing of the bracket. Care must be taken to properly adjust the position of these gears in order to avoid additional friction and resultant increase in the torque load on the meter.

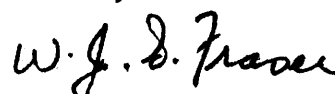
The Dual Instrument Drive Bracket may be used on any suitable and approved rotary, turbine or diaphragm type gas meter in conjunction with any suitable and approved auxiliary devices.

It shall be the responsibility of the utility to ensure that the rotation of the output wigglers is suitable for application and gears are properly adjusted, and that vulnerable points are properly sealed to prevent tampering by unauthorized persons.

Approval granted to:

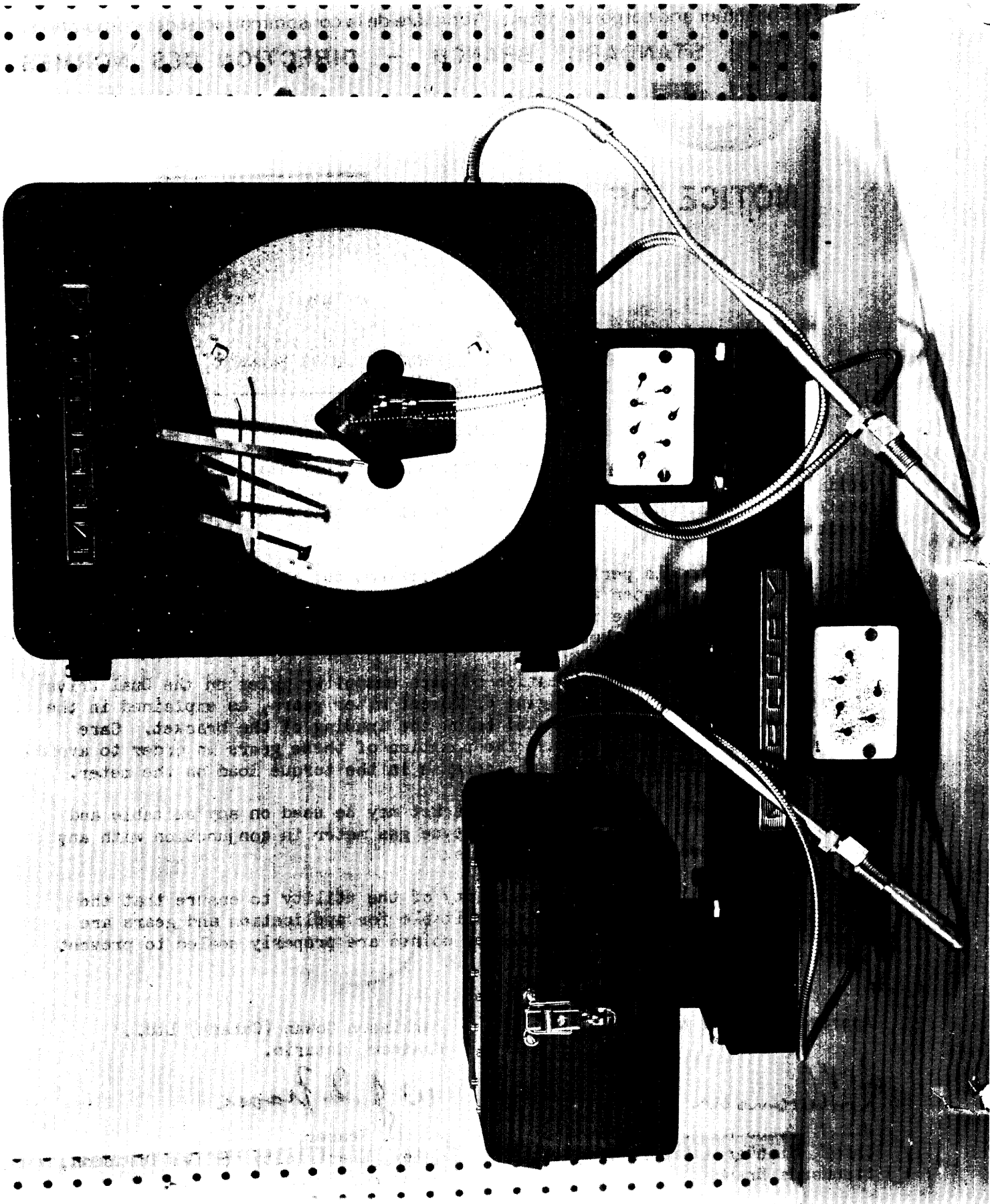
  
J.S.T. Swanson, P. Eng.,  
Chief, Standards Laboratory,  
Standards Branch.

Parkinson Cowan (Canada) Ltd.,  
Chatham, Ontario.

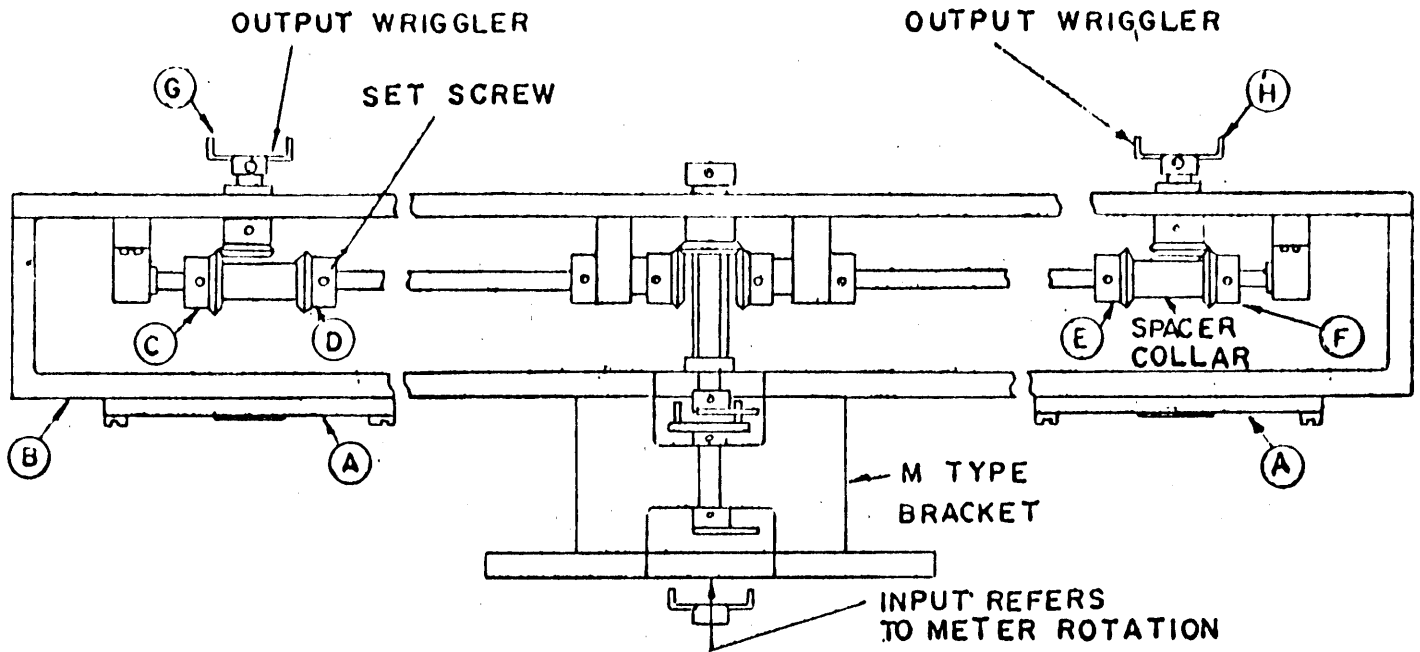
  
W.J.S. Fraser,  
Chief, Electricity and Gas Division,  
Standards Branch.

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

MERCURY INSTRUMENT INC., DUAL INSTRUMENT DRIVE BRACKET, MODELS 100 and 101



ROTATION INSTRUCTIONS FOR MODEL 101



ROTATION INSTRUCTIONS FOR MODEL 101 DUAL INSTRUMENT DRIVE

These instructions apply to miter gear adjustment on either end of the Dual Drive Bracket.

To make proper miter gear adjustment, we must know the correct output rotation for the instrument being mounted; and determine the meter rotation by looking down on the meter.

To determine proper engagement of miter gears (C) & (F) and (D) & (E) use the following instructions:

- A. If meter rotation is clockwise and gear (C) and (F) are engaged, then output rotation will be clockwise.
- B. If meter rotation is clockwise and gear (D) and (E) are engaged, then output rotation will be counterclockwise.
- C. If meter rotation is counterclockwise and gear (C) and (F) are engaged, then output rotation will be counterclockwise.
- D. If meter rotation is counterclockwise and gear (D) and (E) are engaged, then output rotation will be clockwise.

If instrument drive wriggler (G) or (H) rotation is incorrect for the particular meter rotation, the direction of each drive wriggler rotation can be individually reversed as follows:

- A. Remove plate (A) from bottom of bracket (B).
- B. Shift miter gears (C) and (F) and (D) and (E) for the proper output rotation by loosening set screws and sliding miter gears on shaft to engage with proper gear.
- C. Retighten both set screws after proper engagement on shaft flat.

