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

STANDARDS BRANCH - DIRECTION DES NORMES

NOTICE OF APPROVAL G-80-1

OTTAWA May 31, 1972

MODIFICATION TO MERCURY INSTRUMENT INC. DUAL INSTRUMENT DRIVE BRACKETS, MODELS 100 and 101

Approval Circular G-80, dated May 12, 1971 remains in force.

DESCRIPTION

The modification consists of repositioning the mounting support for the gear train assembly from the top cover plate, as shown on circular G-80, to the bottom plate illustrated in this circular.

The modified brackets are designated as models 100C and 101C with the same distinction between the two models as previously described.

Except for the lack of central bearing projection on the top cover, the modified brackets have the same outward appearance as the original brackets approved earlier.

The manufacturer's instructions for installation and arrangeme of the bevel gears for the desired direction of rotation of the wrigglers form part of this circular. Where reference is made to form FD 105-1 and 2 see circular G-81 for applicable data.

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

Approval granted to:

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

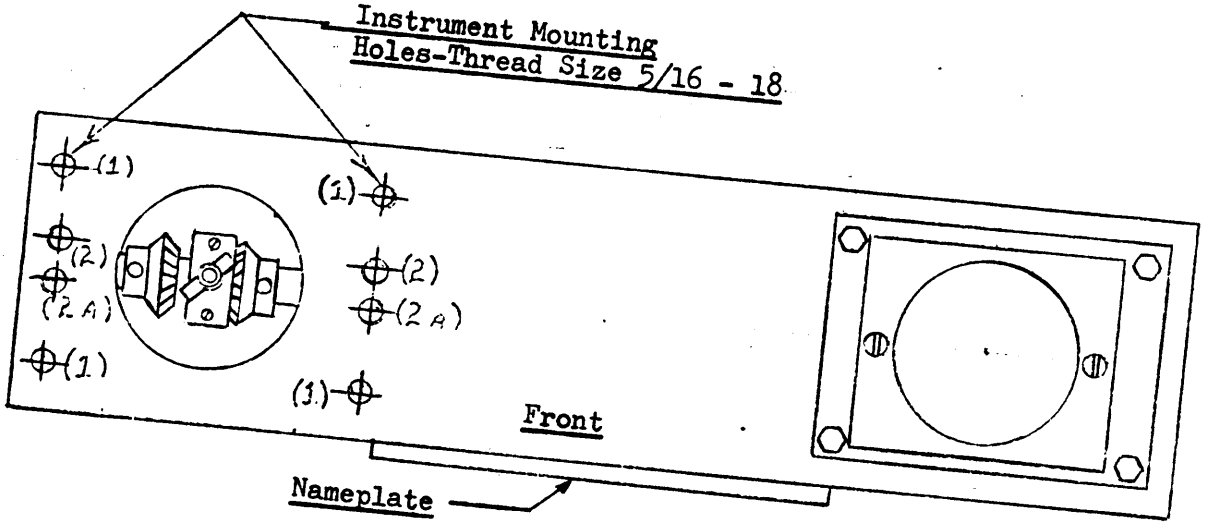
J.H.T. Swanson, P. Eng.,
Chief,
Standards Laboratory,
Standards Branch.

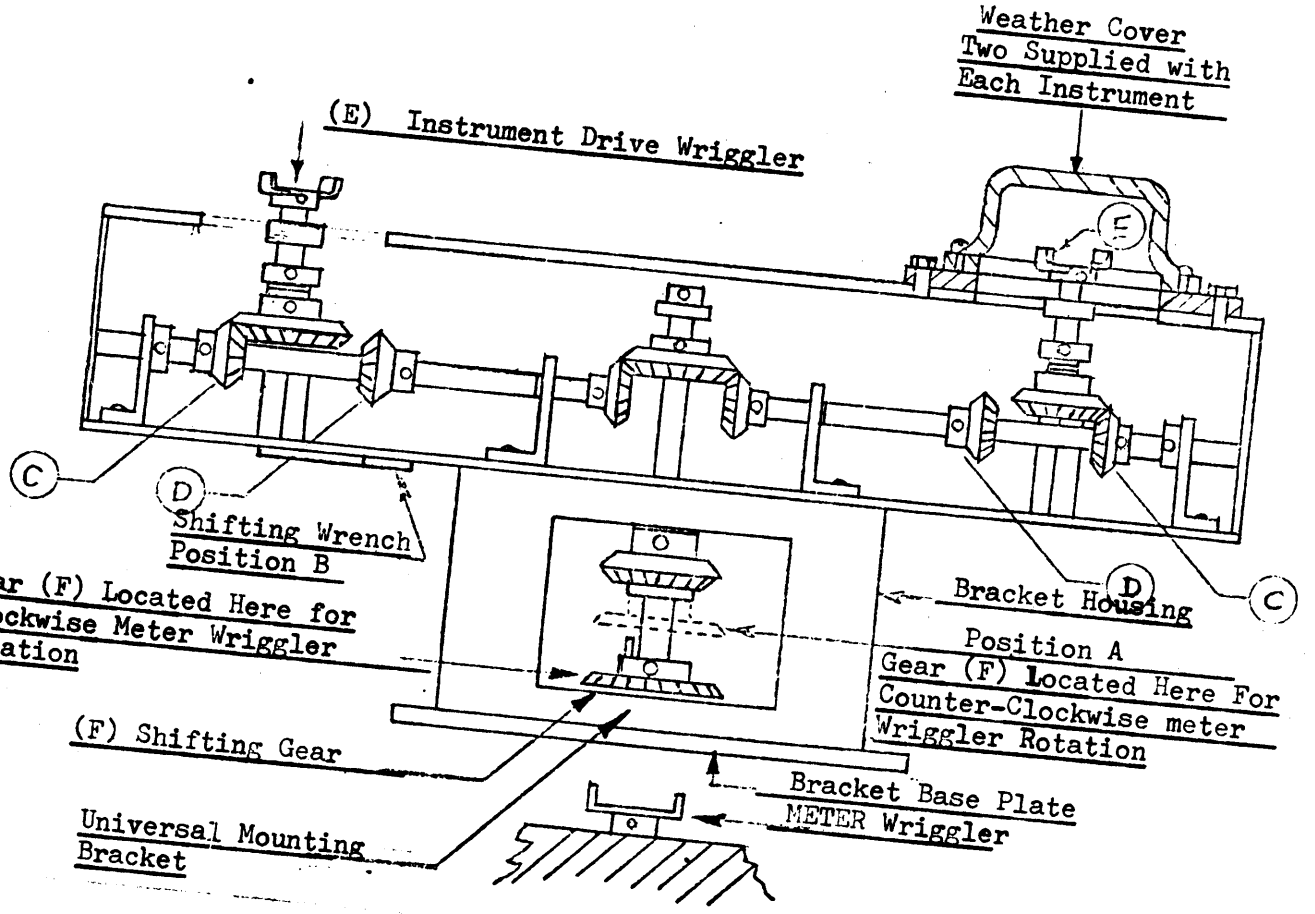
W.J.S. Fraser,
Chief,
Electricity and Gas Division,
Standards Branch.

REF: SL-100-107E

MODIFICATION TO MERCURY INSTRMENT INC. DUAL INSTRUMENT DRIVE BRACKETS, MODELS 100 and 101

Holes # 1-Mercury or American Mounting
Holes # 2-or 2A-Rockwell Mounting





E: See Form FD-103-2 for installation and gear shifting instructions.

M	INSTRUCTIONS FOR MODEL 100-C DUAL INSTRUMENT DRIVE	FD103-1

ERCURY INSTRUMENTS, INC., 3940 Virginia Ave., Cincinnati, Ohio, USA, 4522?

MODIFICATION TO MERCURY INSTRUMENT INC. DUAL INSTRUMENT DRIVE BRACKETS MODELS 100 and 101

1. The Dual Instrument Drive is designed with a universal mounting bracket for mounting on Mercury, Rockwell, American and Roots positive displacement and turbine type meters.

   See forms FD-105-1 and 2 for universal mounting bracket instructions. Proper shifting gear (F) position is necessary to assure correct index rotation.

2. Each end of the Dual Instrument Drive is equipped with 5/16-18 threaded holes for mounting Mercury, Rockwell or American Meter bracket mounted instruments. Mercury instruments have a movable base plate allowing the instrument to be positioned facing in any of four different directions. See form FD-105-1 and 2.

   Rockwell and American instruments must be positioned facing the front of the Dual Instrument Drive. The Mercury name plate indicates the front of the Dual Instrument Drive.

3. The Dual Instrument Drive is supplied with protective weather covers and gaskets for each drive wriggler. The gaskets should be used when installing an instrument. The weather cover is held with four 5/16-18 x 1/2" bolts. After installing an instrument, the weather cover should be saved for possible future use.

   Mercury instruments can be mounted using four 5/16-18 x 1/2" bolts. Rockwell and American Meter instruments require 5/16-18 x 1" bolts. When mounting Rockwell instruments the gasket provided can be used and the four outside holes, (#1), can be sealed using the four 5/16-18 x 1/2" bolts.

4. Before installing an instrument determine the correct rotation for the instrument drive wriggler (E).

5. Locate gear (F) in position (A) or (B) to give correct index rotation. Instrument Drive wrigglers will then rotate in the following directions:

   A. With miter gears (C) engaged instrument drive wrigglers will rotate in the clockwise direction.

   B. With miter gears (D) engaged instrument drive wrigglers will rotate in the counterclockwise direction.

   Direction of rotation of the instrument drive wrigglers is determined by looking down on the top of the Dual Instrument Drive.

   A 10-32 splined wrench is provided in a clip under the Dual Instrument Drive for loosening the set screws in gears (C) and (D). A spacer tube is provided between the gears to prevent engaging both gears at one time. Tighten set screws securely on shaft flat after shifting gears.

   Miter gears (C) and (D) may be adjusted independently to give correct wriggler rotation on each end of the Dual Instrument Drive.