



# MERCUISER SERVICE BULLETIN

Section: XII (Service  
Bulletins)  
Number: ~~78~~ 64-06  
Date : 4/22/64

Beaver Dam, Wis.  
U.S.A.

- A. Instrument Gauges and Senders
- B. MerCruiser Drive Unit Lubrication

## A. INSTRUMENT GAUGES AND SENDERS

Incorrect readings or instrument malfunction will result if instrument gauges and senders are not properly matched. S.W. senders must be matched with S.W. gauges and A.C. senders with A.C. gauges. See illustration, below, for correct identification.

Test results of improper matching are as follows:

### Temperature

Using S.W. Gauge (34629) with A.C. Sender (32828)

- Gauge reads 30°-40°F low at 180°F

Using A.C. Gauge (32827) with S.W. Sender (34625)

- Gauge reads 30°F high at 180°F

### Oil Pressure

Using S.W. Gauge (34627) with A.C. Sender (32830)

- Gauge "pegs" top of scale

Using A.C. Gauge (32829) with S.W. Sender (34623)

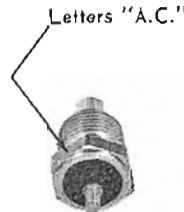
- Gauge "pegs" top of scale



A.C. Sender - Oil Pressure  
Part No. 32830



S.W. Sender - Oil Pressure  
Part No. 34623



A.C. Sender - Temperature  
Part No. 32828



S.W. Sender - Temperature  
Part No. 34625



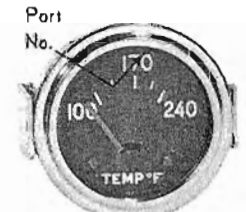
A.C. Gauge - Oil Pressure  
Part No. 32829



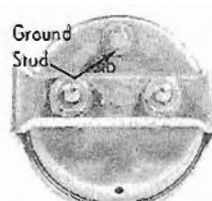
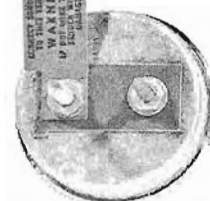
S.W. Gauge - Oil Pressure  
Part No. 34627



A.C. Gauge - Temperature  
Part No. 32827



S.W. Gauge - Temperature  
Part No. 34629



(OVER)

In addition to mismatched gauges and senders, inaccurate instrument readings may result if voltage regulator is not within specified limits of 14 to 15 volts.

The following checks should be made when investigating malfunctioning instruments:

1. Mismatched gauges and senders.
2. Open circuit or high resistance between sender and gauge.
3. Poor ground (high resistance) between engine and instrument panel.
4. Battery voltage (14 to 15) with engine running.
5. DO NOT overlook the engine's mechanical condition. A faulty thermostat or oil of incorrect viscosity will result in abnormal instrument readings.

#### B. MERCUISER DRIVE UNIT LUBRICATION

The "Delivery and Inspection Certificate" requirements must be completed prior to delivery of the MerCruiser Stern Drive equipped boat to the customer.

One of the important requirements is a check of the upper and lower gear housing assemblies. Be sure to check the gear lubricant before delivery. Fill as necessary.

The lubricant level may be down slightly. This occurs when air pockets are relieved when unit is tilted during shipment. While there is a sufficient amount of lubrication for safe operation, it is desirable to have the units filled completely prior to delivery.