



Rudder Angler Indicator

**Part #94249
and
Part #94244**

**Installation Instructions
Version 3.0**

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Rudder Angle Indicator (PN 94249 and PN 94244)

These Rudder Angle Indicator meters require ± 500 microAmperes (500 μ A) for full deflection.

These Rudder Angle Indicators are not a water proof device. The Water Tight Case is recommended for outdoor applications where flush mounting the Rudder Angle Indicator may not be practical or when the back of the Rudder Angle Indicator may be exposed to moisture. The part number (PN) for the Water Tight Case is #81911.

Supplies Included in Standard Rudder Angle Indicator Kit:

- 1) Rudder Angle Indicator (PN 94249 or PN 94244)
- 2) U-Bracket nuts and washers
- 3) Bulb Socket (PN 72695)
- 4) Light Bulbs
 - Bulb #1818 (PN 73142) for 12V systems
 - Bulb #1828 (PN 73156) for 24V systems
 - Bulb #1835 (PN 73160) for 32V systems

Additional Supplies Required:

Suitable length of 18 – 22 AWG wire

CAUTION – Be sure that the SI-TEX Autopilot is OFF before making any connections or modifications to wiring.

Wiring Instructions - refer to Figure 1 for diagram of RAI and connections

- 1) Remove all meter shunts.
- 2) Install the correct rated bulb in the Bulb Socket. Then insert the socket into the socket slot.
- 3) Use 18 – 22 AWG (not included in kit) wires and connect them to the RAI (Rudder Angle Indicator) SIGNAL and RAI RETURN terminals (see Figure 1).
- 4) Make sure the SI-TEX Autopilot is OFF before hooking these wires into the Autopilot Distribution Box or Processor Unit.
- 5) Once the connections to the RAI meter are completed, switch ON the Autopilot and follow the set-up instructions in the Owners Manual for proper operation of the system.
- 6) If the RAI meter needle deflection is moving in the opposite direction to the rudder movement, reverse the RAI SIGNAL and RAI RETURN wire positions (Make sure that the Autopilot is turned OFF). This reversal can be done either at the terminals of the RAI meter or at the Distribution Box/Processor Unit.

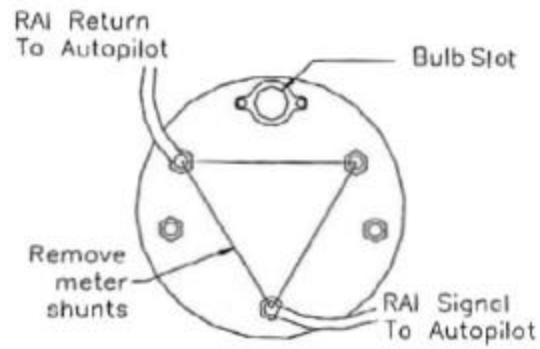


Figure 1 – Diagram of RAI wiring

The following are the dimensions of the RAI cut out (Figure 2).

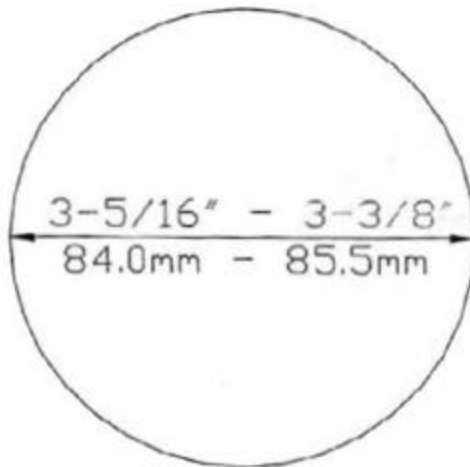


Figure 2 – Diagram of RAI dimensions