



Rudder Angle Gauge 85mm

Tech Support 1-800-265-1818
<http://usa.vdo.com>

Instruction Sheet # A2C59519494

Rev A

Gauge Installation:

1. Select the desired mounting location of the instrument.
2. Mount the gauge and secure with the VDO Spin-Lok™ Clamp.

(See page 2 for mounting options and instructions)

Wiring the Gauge (Illustration A):

1. Route wires from the instrument to:
 - (a) The battery (+) switched power after the fuse box or user supplied in-line fuse – 1 amp.
 - (b) The battery (+) after the ignition switch and after the fuse box or user supplied in-line fuse -1 amp fast-blow.
 - (c) The light switch after the fuse box or user supplied in-line fuse -1 amp
 - (d) A good, dedicated ground location, such as the engine block or negative side of the battery. **DO NOT USE A SHARED GROUND WITH ANY OTHER ELECTRONICS.**
 - (e) The signal and ground terminals on the sending unit.

Connect the harness according to the following wiring Matrix:

Pin	Description
1	Red - Constant (+12 / 24 V)
2	Black - Ground
3	Blue/Black - Signal Ground
4	Brown - Battery switched (+12 / 24 V)
5	Green - Sender Signal
6	Blue/Red - Illumination (+)
7	Not connected
8	Not connected
Note - Use 18 AWG for wire harness	

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Read these instructions thoroughly before installation. Do not deviate from assembly or wiring diagram. Always disconnect battery ground before making any electrical connections.

IMPORTANT: Mounting dimensions vary for different gauges. Please be certain to follow the instructions for your specific gauge.

Parts List		
Item	Description	Qty
1	85mm Gauge	1
2	Spin-Lok™ Clamp	1
3	Gasket	1
4	8 pin Harness	1
5	Instruction Sheet	1

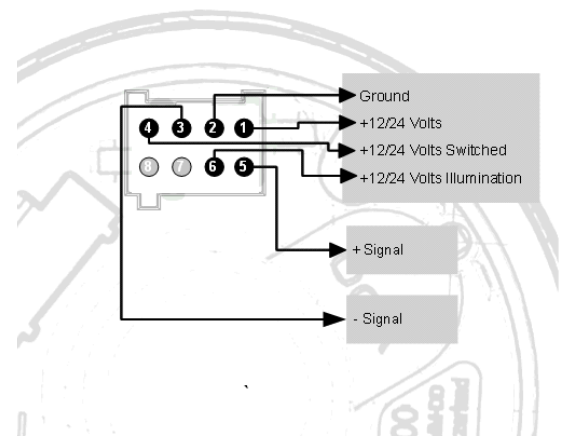
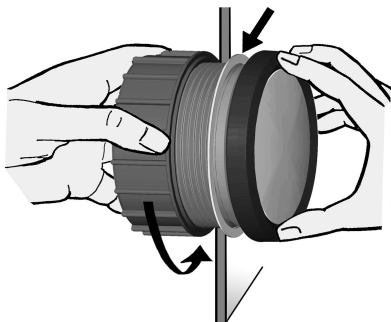


Illustration A

85mm

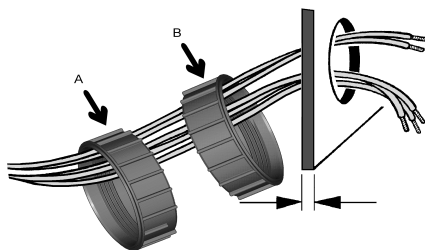
Conventional (Included)

Instrument is put into the drilled hole from the front. The maximum panel thickness is 20mm. The drilled hole must have a diameter of 86mm.



* Make sure the seal lays flat between the panel and the front ring.

For 85mm instruments, the Spin-Lok™ nut can be mounted at position A or B. This allows you two clamping depths.

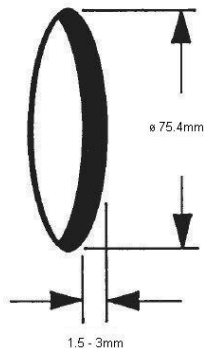


Version A
10mm

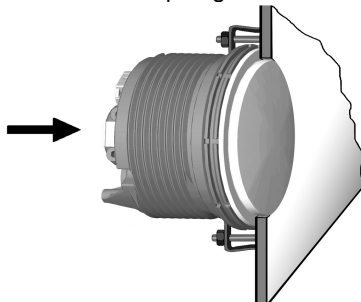
Version B
20mm

Flush (Optional)

When flush mounting (i. e., from the back so that the instrument glass and the panel form one plane), the front ring must be removed. Press on the instrument glass with both thumbs, while at the same time pulling the front ring forward from the instrument with both index fingers.



The recommended panel thickness is 1.5 to 3 mm. The drill hole must have a diameter of 75.4mm. Ensure that the installation location is level and has no sharp edges.

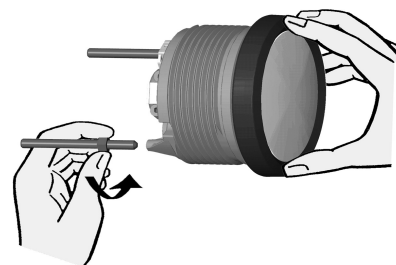


Place the flush mount seal on the instrument glass. Put the instrument into the drill hole from the back. Adjust the instrument so that the gauge is level and fasten it to the stud bolts (not included) on the rear side of the panel, using the flush mount fixing brackets.

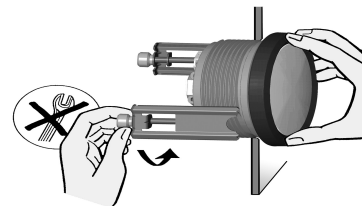
Stud (Optional)

If you would like to omit the fastening nut, you may use the stud mount as an alternative. This is recommended if the installation location is subject to extreme vibrations.

Screw the stud bolts into the drilled holes on the rear of the instrument housing. Max. stud bolt torque is 1.5Nm.



Place the bracket on the stud bolt and tighten the knurled nut. Do not over-tighten.



* Make sure the seal lays flat between the panel and the front ring.

