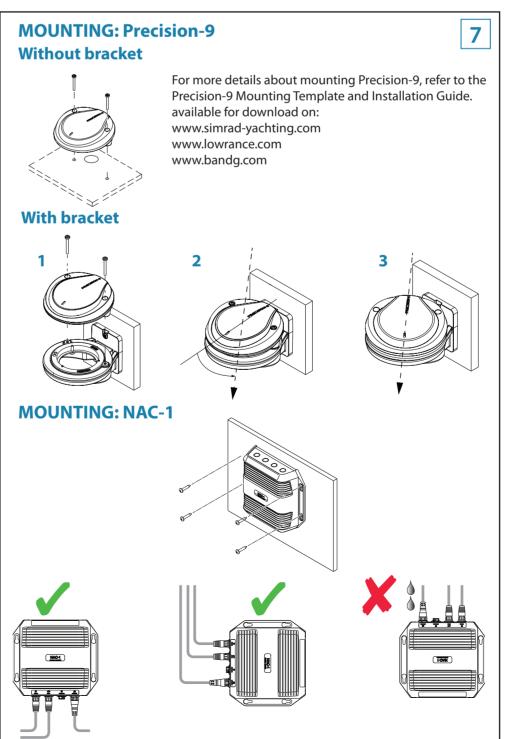


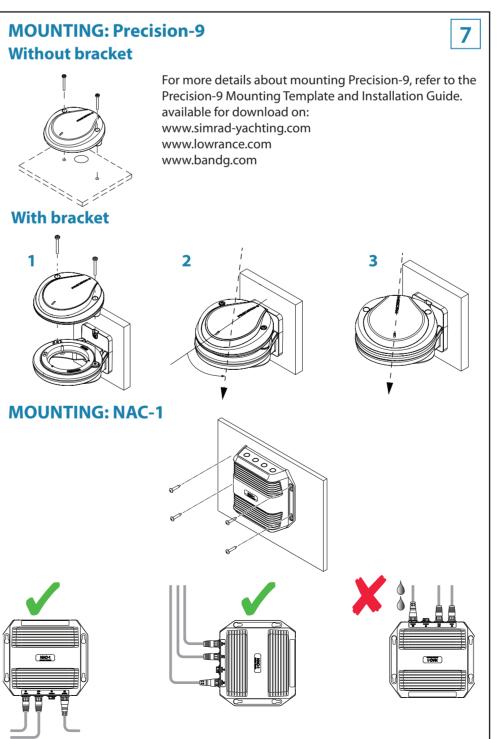
Technical specifications			
NAC-1			
Operating temperature	-25 °C to +55 °C (13 °F to 131 °F)		
Protection	Splashproof, IPx5		
Weight	0.6 kg (1.3 lbs)		
Power supply/Load	9-16 V DC/140 mA + drive unit load		
Performance	Drive: 8 A cont., 16 A for 1 s		
Pump-1			
Operating temperature	-15 °C to +75 °C (5 °F to 167 °F)		
Protection	Splashproof, IPx5		
Weight	2.2 kg (4.9 lbs)		
Hydraulic thread size	1/4 NPT		
Load	5 A at 8 bar (116 psi), 7 A at 24 bar (350 psi)		
Performance	0.8 l/min at 24 bar (350 psi)		
Point-1AP			
Operating temperature	-25 °C to +60 °C (13 °F to 140 °F)		
Protection	Watertight, IPx7		
Weight	0.14 kg (0.31 lbs)		
Power supply/Load	9-16 V DC/<100 mA @ 12 V DC		
Performance	Heading: +/- 3°, Horiz. accuracy: 3 m (9.8 ft)		
Compass safe distance	1 m (3.3 ft)		
Auto/Stby Button			
Operating temperature	-25 °C to +55 °C (13 °F to 131 °F)		
Protection	Splashproof, IPx5		
Weight	0.04 kg (0.09 lbs) (including cable)		
Precision-9			
Operating temperature	-25 to + 65 °C (-13 to + 149 °F)		
Protection	IPx7		
Weight	165 g (5.8 oz) + 130 g (4.6 oz) (Bracket)		
Power supply/Load	8-16 V/1.4 W		
Accuracy	± 2 degrees after calibration		
Compass safe distance	0.5 m (1.7 ft)		

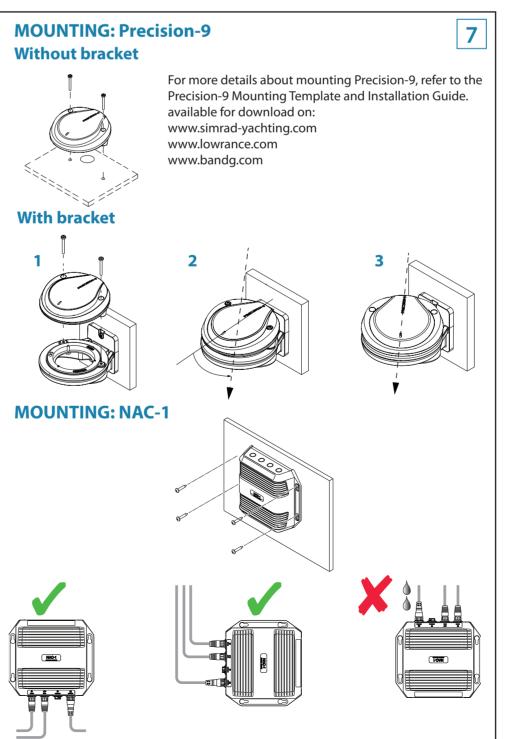


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PLA









PLANNING: Point-1AP and Precision-9 Compass, 5 **Mounting location** Point-1AP \bigtriangledown Precision-9 Electromagnetic Interference

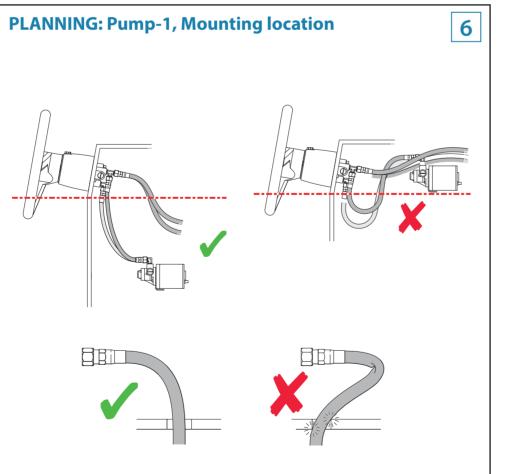
Point-1AP and Precision-9

The compasses contain a magnetic heading sensor and should not be mounted close to any potential magnetic source, and as close to the vessel's centre of roll and pitch as possible. Refer to technical specifications.

Potential sources for magnetic/electromagnetic interference include:

- Electrical Motors/Magnets/Moving Metal items
- Outboard Engines
- High current electrical sources such as main power cables, batteries, distribution panels etc.

The Point-1AP compass also comes with a GPS antenna and should be mounted as far as possible away from disturbing magnetic/ electromagnetic interferences.



Compatibility information

The hydraulic kit comes with both 1/4 NPT 9/16 UNF fittings and ORB fittings which make them ideally suited for the following steering systems:

- Teleflex SeaStar HC5345, HC5347, HC5348, HC5358.
- Teleflex BayStar HC4600, HC4645, HC4647, HC4648, HC4658.
- Hynautic K6 Steering Rams
- Steering rams from Vetus, Uflex, and Lecomble & Schmitt can also be used.
- → *Note*: Newer SeaStar/BayStar helm pumps require the use of ORB fittings (supplied in the kit).

PLANNING: Tools needed		2
	Screwdriver	
	Drill	
Star B	Wrench	
\bigcirc	Cup or can	
	Таре	
	Tools to connect power cables to the battery	
SAW	Gloves (disposable type)	

Check the contents

- NAC-1 Autopilot computer
- Point-1AP or Precision-9 Compass
- Auto/Stby Button
- NMEA 2000 Network kit
- Pump-1
- Pump fitting kit

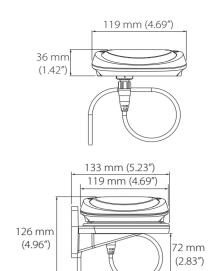
ANNING: Cable lengths

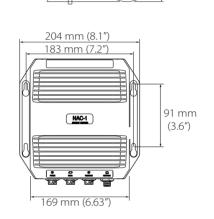


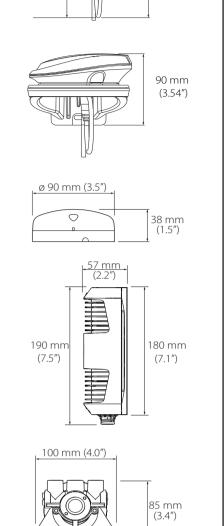
Refer to "WIRING: Wiring diagram" (point 9) to find the various cable lengths.

3

PLANNING: Dimensions



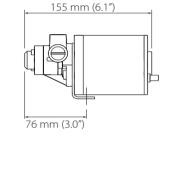


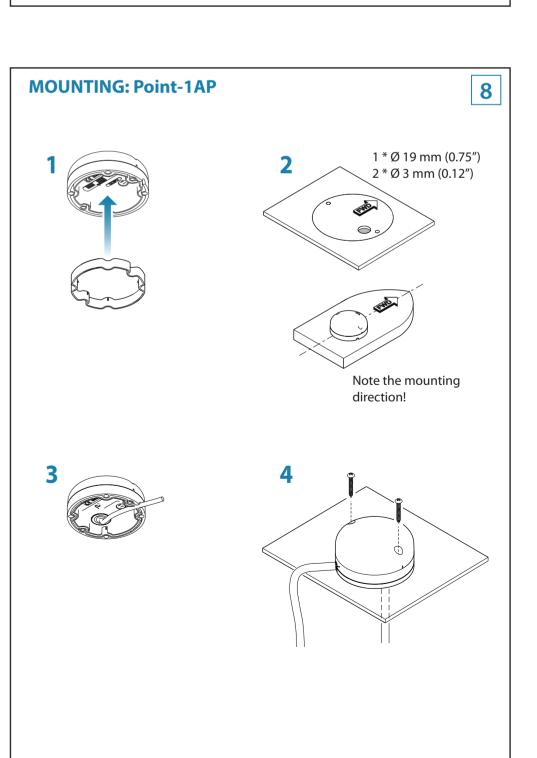


85 mm (3.4")

<u>, 119 mm (4.69")</u>

90 mm (3.54")

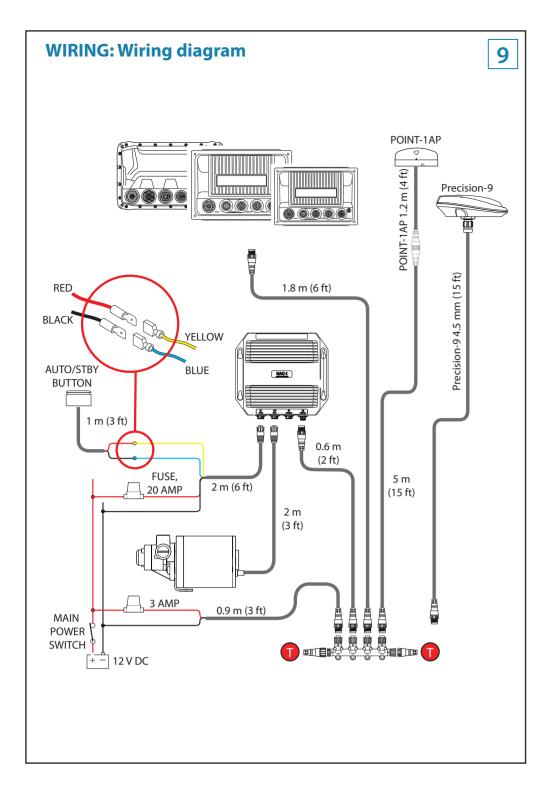


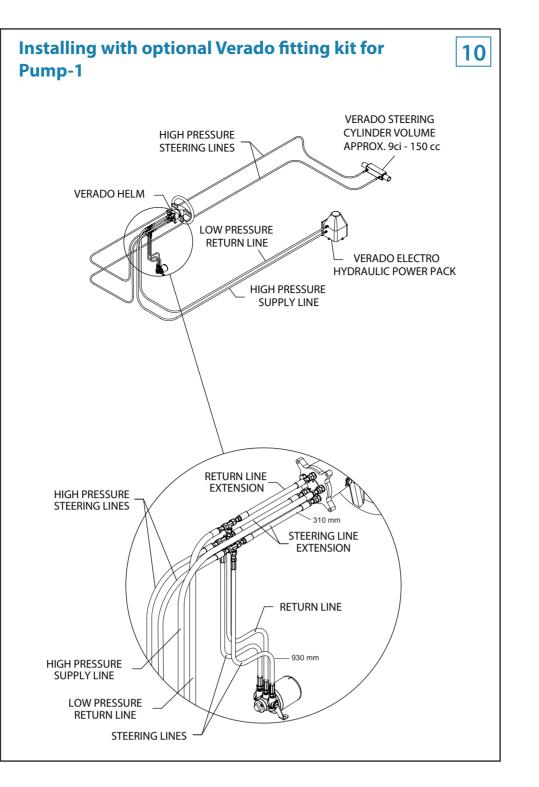


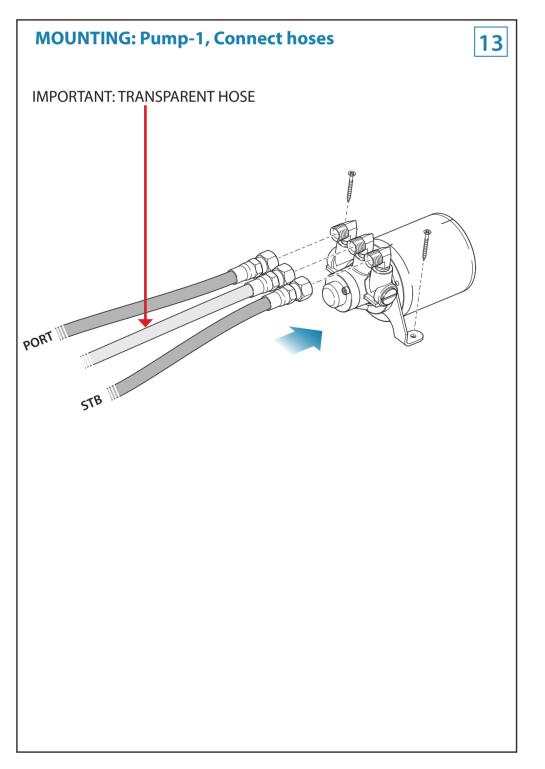
4

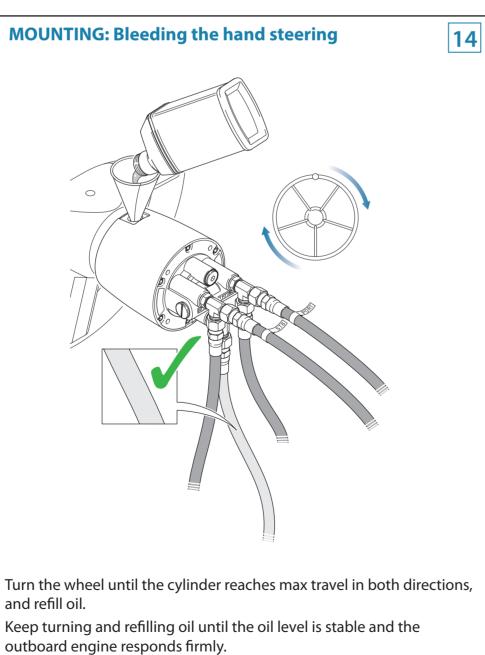
126 mm

(4.96")



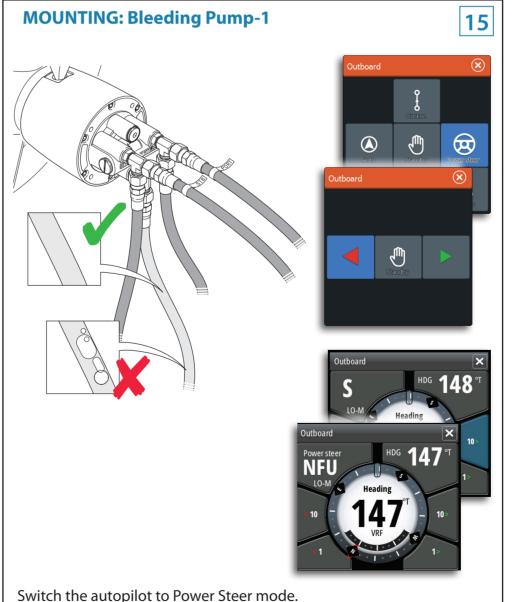




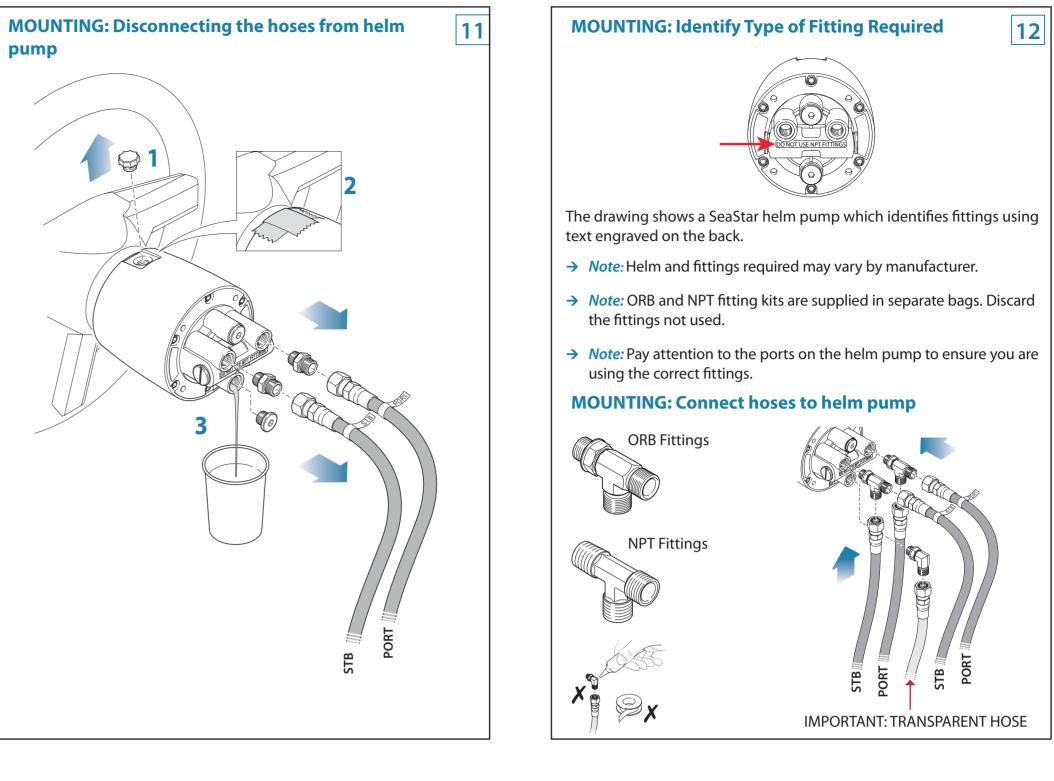


If air bubbles still remain in the system, follow the bleeding procedure described for the outboard cylinder.

→ *Note*: It is recommended to use a threaded filler tube if available.



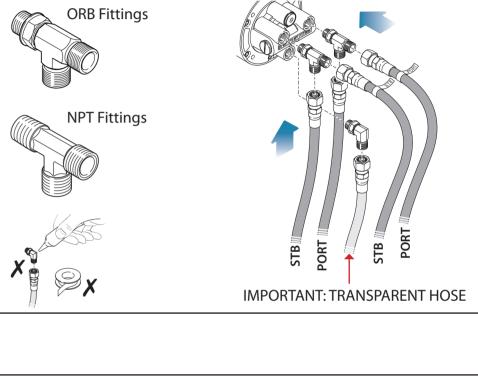
evo2.

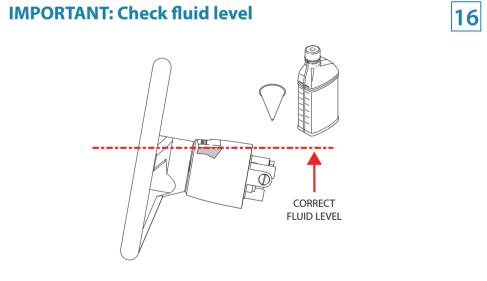


Switch the autopilot to Power Steer mode.

Press and hold the arrow keys on the Autopilot controller in steps less than 3 seconds at a time, until the cylinder reaches max travel in both directions. The screenshots above are examples from HDS and NSS

Continue to run the pump in both directions until no air bubbles are left in the transparent tube.





Check all fittings for leaks.

Configuration

17

& (E

Refer to your Autopilot controller's documentation for setup instructions.

Compliance Statements

The Outboard and the DrivePilot:

• Comply with CE under EMC directive 2004/108/EC

• Comply with the requirements of level 2 devices of the Radiocommunications (Electromagnetic Compatibility) standard The relevant Declaration of Conformity is available on the following websites under model documentation section: www.simrad-yachting.com

www.lowrance.com