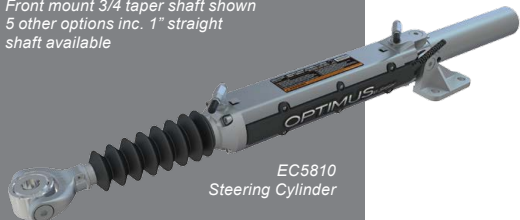


APPLICATIONS

Electronic Power Steering (EPS) system suitable for vessels from approximately 58 ft to 75 ft * with single or dual rudders.



EH1512 Electronic Helm
Front mount 3/4 taper shaft shown
5 other options inc. 1" straight shaft available



EC5810
Steering Cylinder

* Subject to submission of survey form and rudder load calculation.

Environmental

- Operating temperature: -18°C to +77°C [ISO 25197]
- Storage temperature: -40°C to +85°C [ISO 25197]
- Corrosion resistance: 300 hours salt spray [ASTM B117]
- Water ingress protection: IPX7 [IEC 60529]
- Random vibration: 0.0284 g²/Hz [ABYC P-27]
- Resonant vibration: 4 G zero-peak, 20-2000 Hz [ABYC P-27]
- Mechanical shock: 50 G, 11 m-sec half-sine shape [ISO 25197]
- Ignition protection: SAEJ-1171
- Meets EN60945 electro-magnetic compatibility requirement

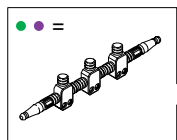
Issue Date - August 2017
Issue Number - 469256B



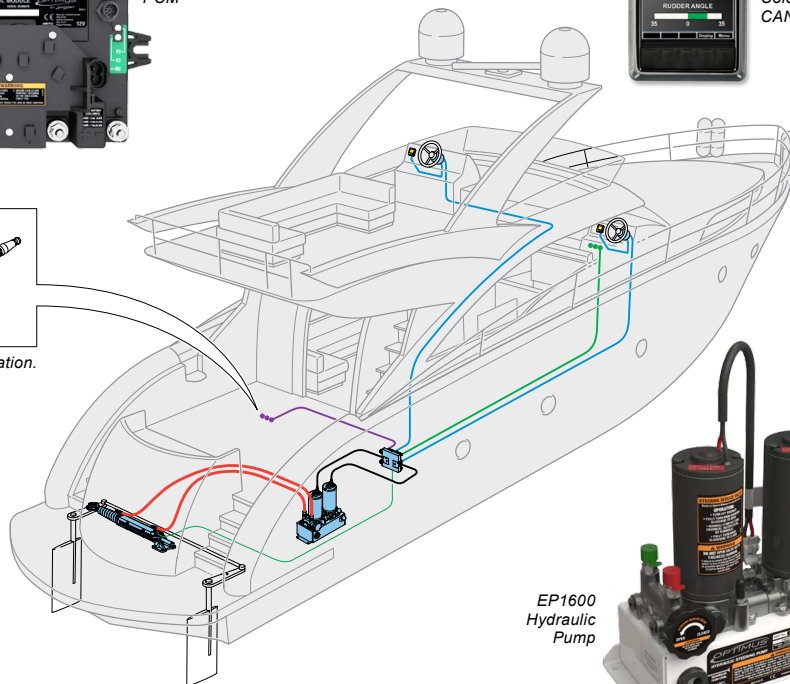
EM1200
PCM



ED1700
Color
CANtrak



CAN Tee's termination.



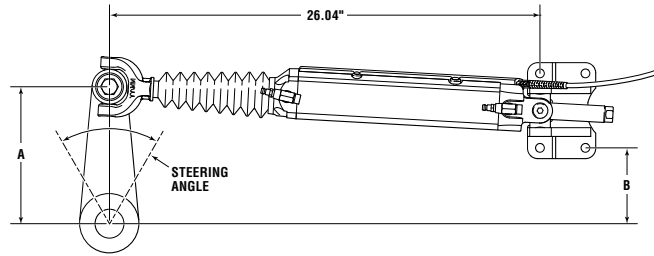
EP1600
Hydraulic
Pump

FEATURES

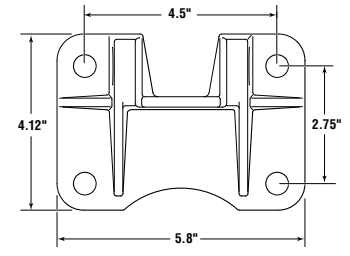
- Up to three helms stations
- Automatic battery management with sensing, warnings & best battery selection
- On demand hydraulic steering pump minimizing power consumption
- No oil at the helm
- Rugged electronics for 24 VDC applications
- Color dash display showing rudder command and rudder position graphic
- Displays system health
- Display provides system setup interface
- Communicates faults and any special handling instructions to the operator
- Simple software updating via USB port
- Programmable number of turns lock to lock with speed
- Auto-adjusting steering end stops and resistance with speed
- Dual redundant position sensing on all moving components
- Helm offers both 3/4" taper or 1" straight shaft options
- Utilizes fault tolerant CAN network
- Full autopilot CANbus connectivity and integration. No additional pumps or sensors required
- Adjustable max rudder hard over angle with speed range 25° to 40° Center to hard over
- Position proportional rudder gain for faster steering response near neutral rudder position
- RPM input: NMEA 2000, J1939 or analog pulse compatible
- Pump features an Integrated service/ bypass valve allows a limp home mode
- Meets or exceeds ABYC, CE, ISO and SAE electrical and environmental requirements

MOUNTING CONFIGURATIONS & SYSTEM SCHEMATIC

While using the table below be sure that your steering cylinder is at mid-stroke as shown in the figure right to ensure the cylinder operates correctly.



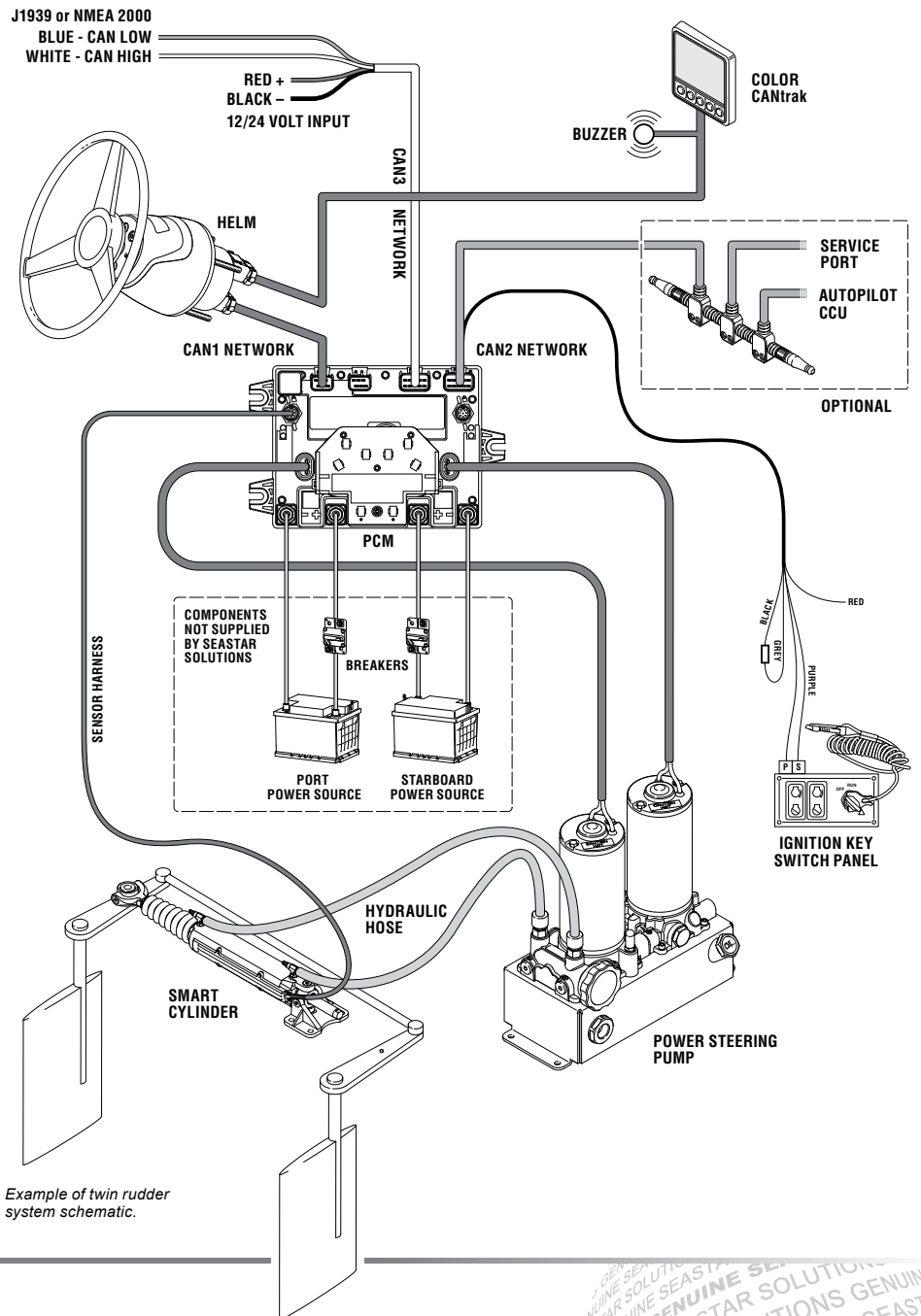
Cylinder at mid-stroke.



Mounting foot.

Model EC5810			
STEERING ANGLES			
50°		60°	
A	B	A	B
11.27"	7.96"	9.50"	5.98"
56,300 in-lbs		45,400 in-lbs	

STEERING ANGLES			
70°		80°	
A	B	A	B
8.25"	4.50"	7.40"	3.41"
37,400 in-lbs		31,200 in-lbs	



Example of twin rudder system schematic.

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