ED1700 Color CANtrak



For Inboard Yachts 18ft to 34ft

EM1200

APPLICATIONS

Electronic Power Steering (EPS) system suitable for vessels from approximately 18 ft to 34 ft * with single or dual rudders.





Subject to submission of survey form and rudder load calculation.

FEATURES

CAN Tee's termination

- · Up to two 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 12 or 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

EP15XX Hydraulic Pump

- 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

- **Environmental**
- Operating temperature: -18°C to +77°C [ISO 25197]
- · Storage temperature: -40°C to +85°C [ISO 25197]
- Corrosion resistance: 300 hours salt spay [ASTM B117]
- Water ingress protection: IPX7 [IEC 60529]
- · Random vibration: 0.0284 g^2/Hz [ABYC P-27]
- · Resonant vibration: 4 G zeropeak, 20-2000 Hz [ABYC P-27]
- · Mechanical shock: 50 G, 11 m-sec half-sine shape [ISO 25197]
- Ignition protection: SAEJ-1171
- Meets EN60945 electromagnetic compatibility requirement

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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.

| Model EC5380 | | | |
|-----------------|-------|--------------|-------|
| STEERING ANGLES | | | |
| 50° | | 60° | |
| Α | В | Α | В |
| 8.33" | 6.43" | 7.04" | 4.98" |
| 11,004 in-lbs | | 8,887 in-lbs | |
| STEERING ANGLES | | | |
| 70° | | 80° | |

Α

5.48"

В

3.07"

6,115 in-lbs

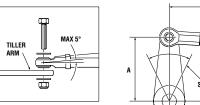
В

3.91"

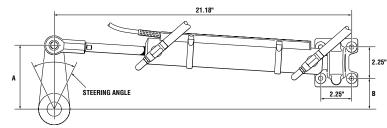
7,328 in-lbs

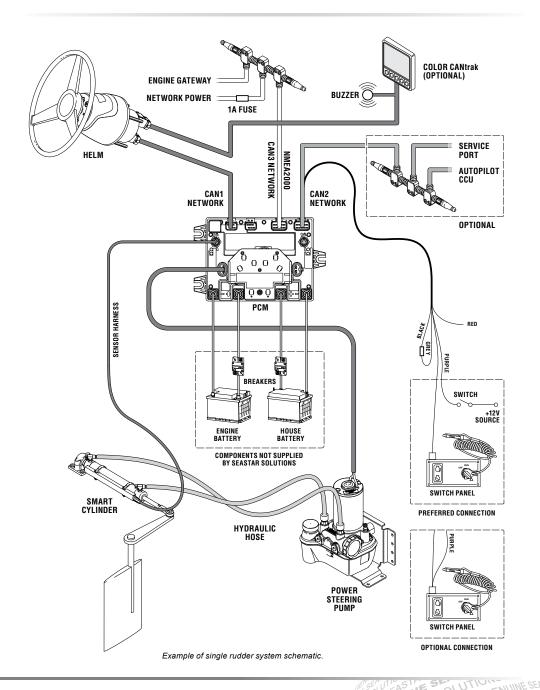
Α

6.14"



Attachment to Tiller Arm, recommended per ABYC.





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