

## For Sterndrive Vessels 28ft to 50ft

### APPLICATIONS

Electronic Power Steering (EPS) system suitable for vessels from 28 ft to 50 ft.



EH1510 Electronic Helm  
Front mount 3/4" taper shaft shown  
5 other options available



HC5360  
Steering Cylinder

### 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 g<sup>2</sup>/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 electromagnetic compatibility requirement

Issue Date - January 2017

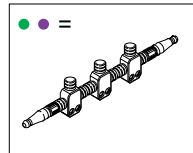
Issue Number - 469260A



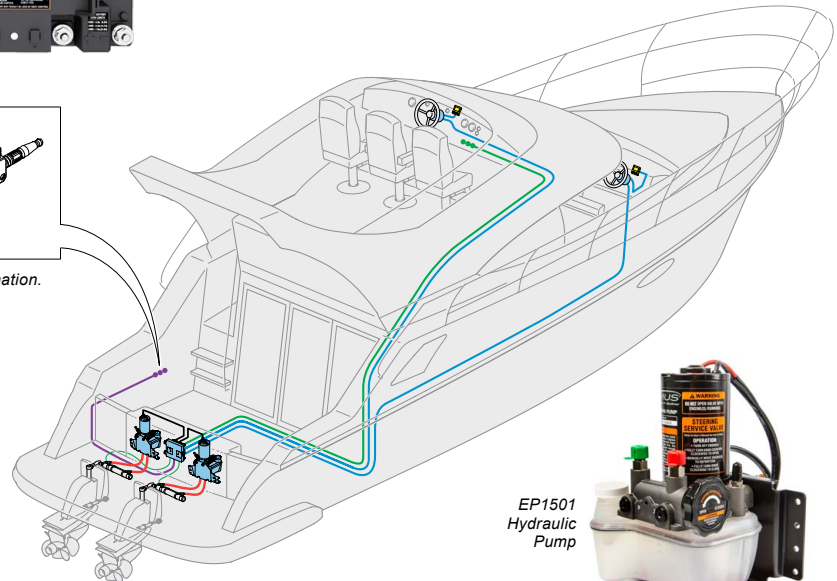
EM1200  
PCM



ED1700  
Color  
CANtrak



CAN Tee's termination.



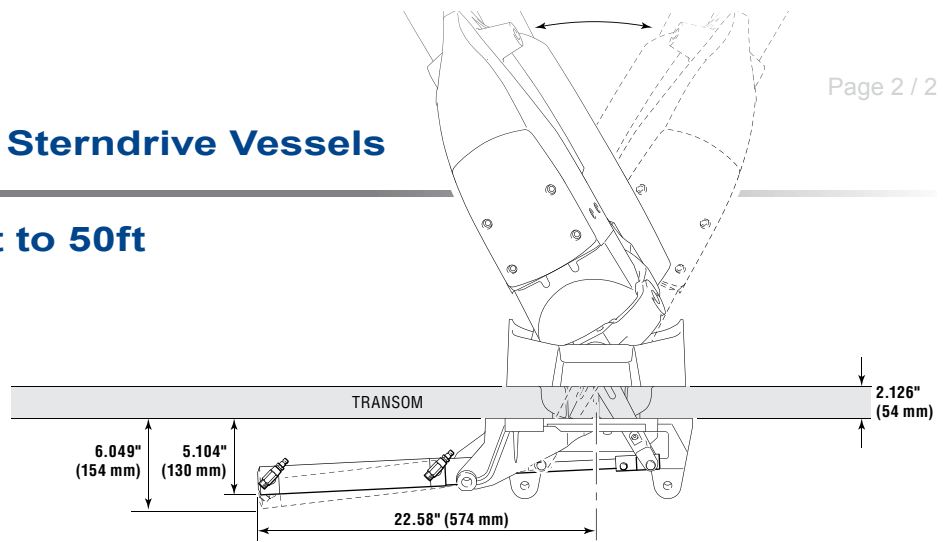
EP1501  
Hydraulic  
Pump

### FEATURES

- 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 shaft: 3/4" taper
- 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 20° to 30° 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

## For Sterndrive Vessels

### 28ft to 50ft

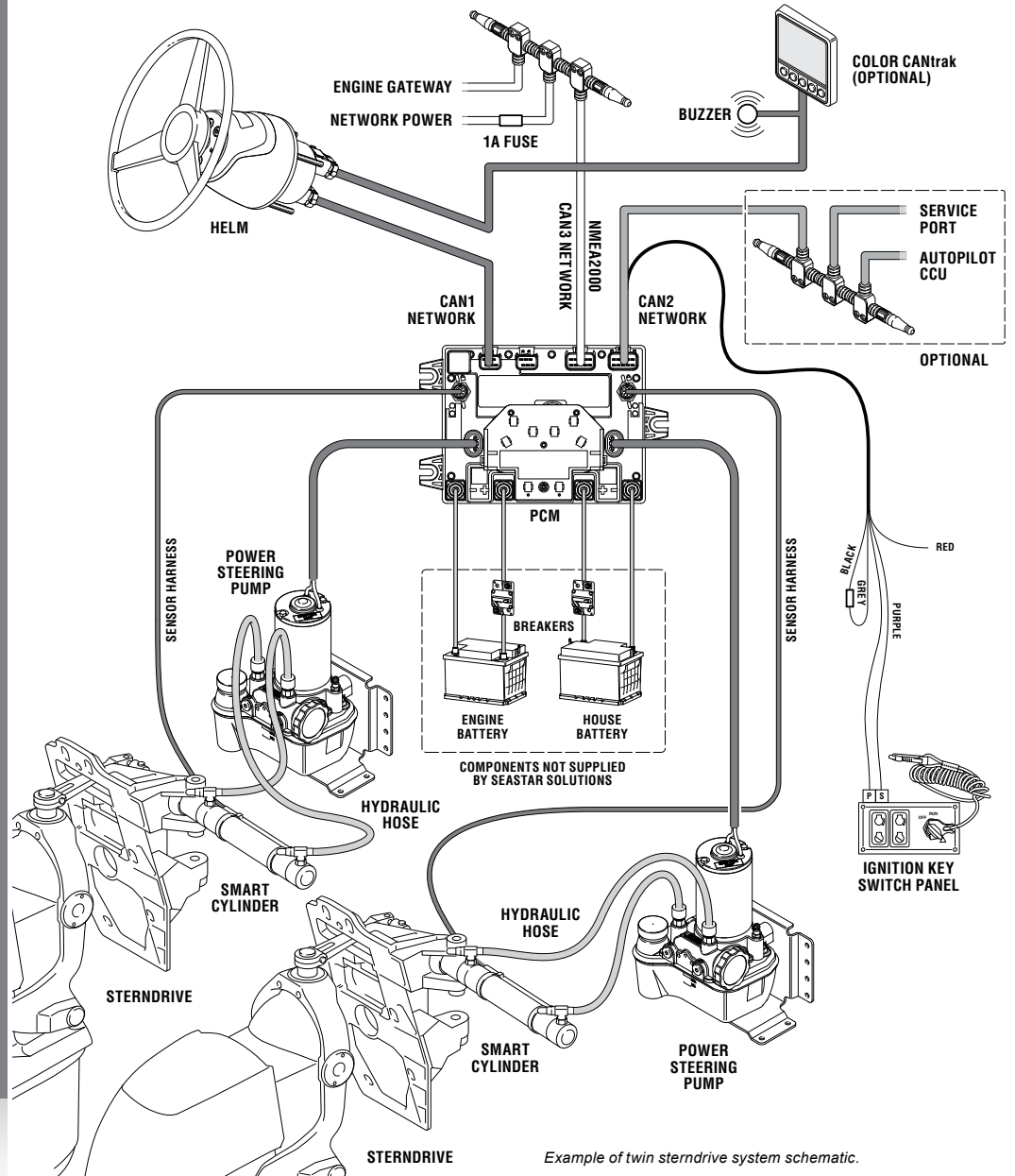


### CYLINDER COMPATIBILITY TABLE

| Volvo               |     |
|---------------------|-----|
| DPH Duoprop         | No  |
| DPR Duoprop         | No  |
| DPS Duoprop         | Yes |
| DPS-A               | Yes |
| DPS-A OXI           | Yes |
| DPS-B               | Yes |
| DPS-B1              | Yes |
| DPS-M               | Yes |
| DP-E                | No  |
| DP-G                | No  |
| DP-X                | No  |
| OCEAN X (DPS-B OXI) | Yes |
| XDP                 | Yes |
| XDP-B               | Yes |
| SX                  | Yes |
| SX-A                | Yes |

| Mercury           |     |
|-------------------|-----|
| BRAVO 1           | Yes |
| BRAVO 11          | Yes |
| BRAVO 111         | Yes |
| ALPHA 1 GEN 1     | Yes |
| ALPHA 1 GEN 2     | Yes |
| BRAVO X 1         | Yes |
| BRAVO X 11        | Yes |
| BRAVO X 111       | Yes |
| BRAVO X R         | Yes |
| BRAVO X R ITS     | No  |
| BRAVO X SPORTSMAN | Yes |

| Yanmar |     |
|--------|-----|
| ZT 370 | Yes |
| ZT 350 | Yes |



Example of twin sterndrive system schematic.

Issue Date - January 2017  
Issue Number - 469260A