

POWER & CONTROL

# i7800 ELECTRONIC CONTROL

The i7800 electronic control system combines advanced electronics with over 50 years of mechanical engine control "know-how" into a system that's the perfect enhancement to nearly any boat/engine combination.

**UP TO 3 STATIONS**  
KITS AVAILABLE FOR 2ND OR  
3RD STATIONS

**TROLLING MODE**  
ABILITY TO INCREASE THROTTLE  
RESOLUTION FOR IMPROVED CONTROL

**ENGINE RPM SYNCHRONIZATION**  
CONTROL CRUISE SPEED WITH  
SINGLE LEVER OPERATION



Mobile living made easy.

 **DOMETIC**

# ELECTRONIC CONTROLS

Available in single or twin handle with or without universal trim. System kits are available based on the number of engines to be controlled and for single station applications. When a second or third station is needed, kits are available that include the parts for that 2nd or 3rd station. Connectivity is simply made via the CANbus harness. Additional stations can be added by selecting from the 'Additional Stations' list.

## Control Head Styling

The control heads are ergonomically designed for maximum comfort and control. Available with or without universal trim switches, they each also include easily adjustable drag and detent adjustment pins to suit the operator's preference.

## Applications

- Suitable for all engines with mechanical shift and mechanical throttle.
- Single or twin engine applications.
- Inboard, IO and Outboard.
- Supports up to three stations.

## 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-24]
- Resonant vibration: 1 G zero-peak, 20-2000 Hz [ABYC P-24]
- Mechanical shock: 50 G, 11 m-sec half-sine shape [ISO 25197]
- Ignition protection: SAEJ-1171
- Meets EN60945 electromagnetic compatibility requirement

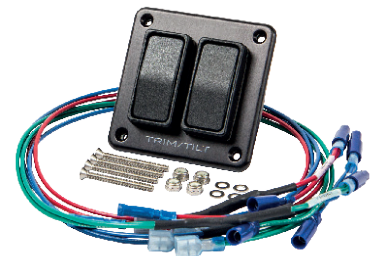
## Features

- Two cable actuators in a single chassis for complete shift and throttle control
- Utilizes automotive high speed CAN network (250 kbps)
- Maximum programmable cable travel: 3.14" (80 mm)
- Maximum load capability: 135 lbs [600 N]
- Maximum cable speed: 4.72 in/s [120 mm/s]
- Unit weight: 15 lbs [6.75 kg]
- Programmable home position
- Standard or customizable throttle curves forward and reverse
- Compatible with SeaStar's Xtreme family of control cables (CCX633XX series)
- Dual redundant position sensing on all moving components
- Rugged electronics for 12 VDC applications
- Integrated neutral start protection (NSP) switch
- Low backlash position control



## Optional Trim Switch

This will enable the engines to be trimmed individually when the situation calls for it.



- Meets or exceeds ABYC, CE, ISO and SAE electrical and environmental requirements
- RPM input: NMEA 2000 or analog pulse compatible
- User settable trolling mode
- Single lever operation syncs both engine RPM's
- Control head features universal trim switch model built into port handle
- Independent trim switches available (dash mount kit HA5491)
- Maximum of three control heads per vessel
- Single or twin engine applications
- Override feature provides simple shift and throttle emergency engagement

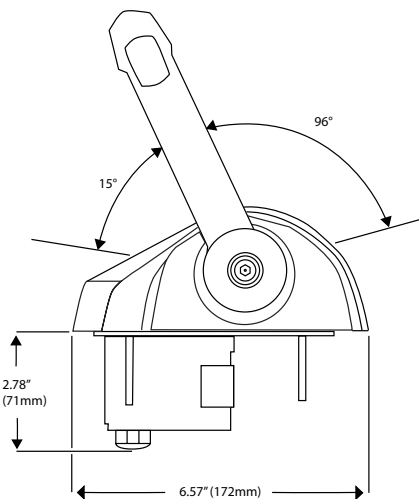
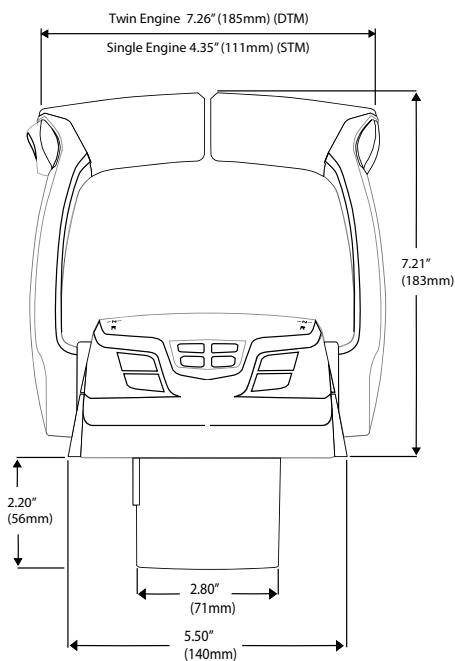
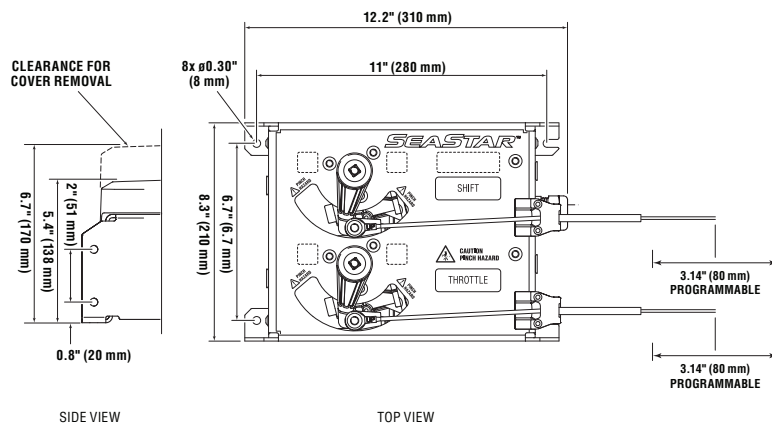
**NOTE:** Requires Setup Tool EPSK1207 for installation.

# DIMENSIONAL DATA

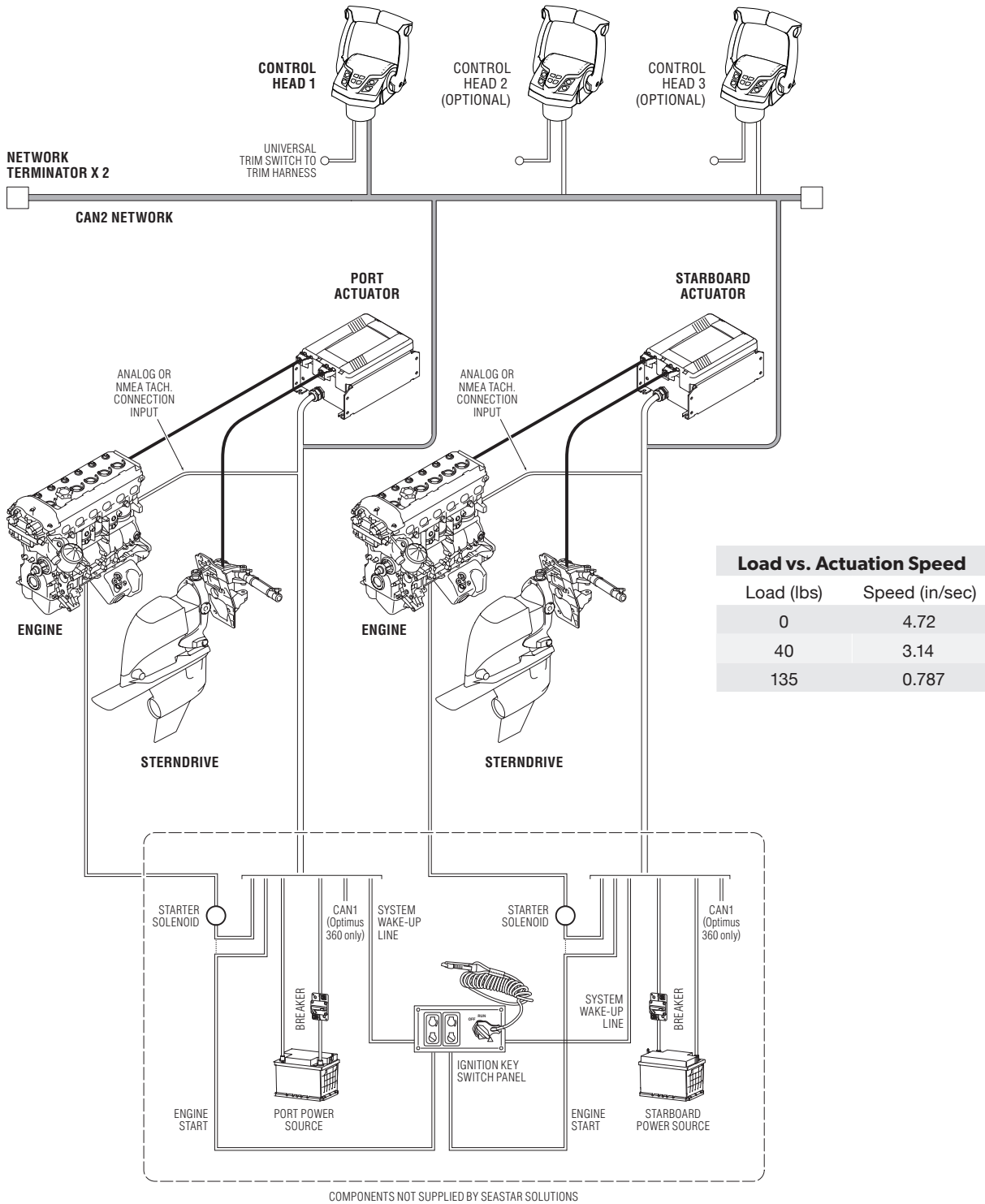
## Shift and Throttle Actuators

The i7800 actuator contains both the shift and throttle actuator within one compact housing and are not only powerful enough to manage the shift and throttle functions on the most extreme applications, they are also exceedingly responsive and robust.

The actuators are linked to the control heads via a single 1/4" (6mm) CANbus cable making cable routing incredibly easy. In addition, the i7800 actuators have a mechanical back up "get home" feature which allows simple manual control should the need arise.



# SPECIFICATIONS



Example of a twin engine sterndrive system.

# i7800 ELECTRONIC ENGINE CONTROL

TOOL REQUIRED TO SET UP SYSTEM		Requires EST Display setup tool for configuration (EPSK1207)							
Base Systems – Single Station Kits	Kit Part #	i7811	i7811-BE	i7851	i7851-BE	i7812	i7812-BE	i7852	i7852-BE
		Chrome Single Engine	Black Single Engine	Chrome Single Engine w/ Trim	Black Single Engine w/ Trim	Chrome Dual Engine	Black Dual Engine	Chrome Dual Engine w/ Trim	Black Dual Engine w/ Trim

## ACTUATORS

Actuator, i7700 Universal	AC7700	1	1	1	1	2	2	2	2
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## CONTROL HEAD KITS

Single Top Mount, Control Head Kit	CH7810NT	1	-	-	-	-	-	-	-
Single Top Mount, Control Head Kit, black	CH7810NT-BE	-	1	-	-	-	-	-	-
Single Top Mount, Control Head Kit, with Trim	CH7810	-	-	1	-	-	-	-	-
Single Top Mount, Control Head Kit, with Trim, Black	CH7810-BE	-	-	-	1	-	-	-	-
Dual Top Mount Control Head Kit	CH7800NT	-	-	-	-	1	-	-	-
Dual Top Mount Control Head Kit, Black	CH7800NT-BE	-	-	-	-	-	1	-	-
Dual Top Mount Control Head Kit, with Trim	CH7800	-	-	-	-	-	-	1	-
Dual Top Mount Control Head Kit, with Trim, Black	CH7800-BE	-	-	-	-	-	-	-	1

## HARNESSES/TEES

NMEA Communication Kit (2 tees, 1 male and 1 female terminator)	CM20001	1	1	1	1	1	1	1	1
Single CanBus Tee	CM10060	-	-	-	-	1	1	1	1
Micro C Ext, M-F (6ft CAN bus harness)	CM10006	1	1	1	1	1	1	1	1
Micro C Ext, M-F (12ft CAN bus harness)	CM10012	1	1	1	1	1	1	1	1
Micro C Ext, M-F (20ft CAN bus harness)	CM10020	1	1	1	1	1	1	1	1

## MANUALS

Book # 79 i7700 User Manual (stand alone)	710465	1	1	1	1	1	1	1	1
Book # 77 i7700 Installation Manual	710351	1	1	1	1	1	1	1	1
Quick Ref. – Single	710038	1	1	1	1	-	-	-	-
Quick Ref. – Dual	710013	-	-	-	-	1	1	1	1

## OPTIONAL ACCESSORIES

Dual trim switch panel for independent operation	HA5491	-	-	-	-	-	-	-	-
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## Additional Stations Kits

Additional Stations Kits	Kit Part #	i7811A	i7811A-BE	i7851A	i7851A-BE	i7812A	i7812A-BE	i7852A	i7852A-BE
		Chrome Single Engine	Black Single Engine	Chrome Single Engine w/Trim	Black Single Engine w/ Trim	Chrome Dual Engine	Black Dual Engine	Chrome Dual Engine w/ Trim	Black Dual Engine w/ Trim

## CONTROL HEAD KITS

Single Top Mount, Control Head Kit	CH7810NT	1	-	-	-	-	-	-	-
Single Top Mount, Control Head Kit, Black	CH7810NT-BE	-	1	-	-	-	-	-	-
Single Top Mount, Control Head Kit, with Trim	CH7810	-	-	1	-	-	-	-	-
Single Top Mount, Control Head Kit, with Trim, Black	CH7810-BE	-	-	-	1	-	-	-	-
Dual Top Mount Control Head Kit	CH7800NT	-	-	-	-	1	-	-	-
Dual Top Mount Control Head Kit, Black	CH7800NT-BE	-	-	-	-	-	1	-	-
Dual Top Mount Control Head Kit, with Trim	CH7800	-	-	-	-	-	-	1	-
Dual Top Mount Control Head Kit, with Trim, Black	CH7800-BE	-	-	-	-	-	-	-	1

## HARNESSES/TEES

Single Tee	CM10060	1	1	1	1	1	1	1	1
Micro C Ext, M-F (30ft CAN bus harness)	CM10030	1	1	1	1	1	1	1	1

ADDITIONAL NMEA HARNESS LENGTHS			
Part No.	Length (feet)	Part No.	Length (feet)
CM10001	1'	CM10012	12'
CM10003	3'	CM10020	20'
CM10006	6'	CM10030	30'
CM10009	9'		