i7800 Electronic Engine Control



Environmental

• Operating temperature: -18°C to +77°C [ISO 25197]

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- 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-24]
- · Resonant vibration: 1 G zeropeak, 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

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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
- 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.

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N MARINE PRODUCTS

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i7852

Engine

with Trim

2

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STAR SOLUTIONS GENUINE SEASTAR

Dual

EST Display setup tool for configuration (EPSK1207)

i7851

Single

Engine

with Trim

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i7812

Dual

Engine

2

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1

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i7800 Electronic Engine Control

Kit Part #

AC7700

CH7810NT

CH7800NT

CH7810

CH7800

i7811

Single

Engine

1

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TOOL REQUIRED TO SET UP SYSTEM

Base Systems – Single Station Kits

ACTUATORS

with Trim

with Trim

Actuator, i7700 Universal

Single Top Mount, Control Head Kit

Single Top Mount, Control Head Kit,

Dual Top Mount Control Head Kit

Dual Top Mount Control Head Kit,

CONTROL HEAD KITS

i7700 SYSTEMS

Additional NMEA Harness Lengths				
Part No.	Length (feet)			
CM10001	1'			
CM10003	3'			
CM10006	6'			
CM10009	9'			
CM10012	12'			
CM10020	20'			
CM10030	30'			

ADDITIONAL
STATIONS SYSTEMS

HARNESSES/TEES							
NMEA Communication Kit (2 tees, 1 male and 1 female terminator)	CM20001	1	1	1	1		
Single CanBus Tee	CM10060	-	-	1	1		
Micro C Ext, M-F (6ft CAN bus harness)	CM10006	1	1	1	1		
Micro C Ext, M-F (12ft CAN bus harness)	CM10012	1	1	1	1		
Micro C Ext, M-F (20ft CAN bus harness)	CM10020	1	1	1	1		
MANUALS							
Book # 79 i7700 User Manual (stand alone)	710465	1	1	1	1		
Book # 77 i7700 Installation Manual	710351	1	1	1	1		
Quick Ref. – Single	710038	1	1	-	-		
Quick Ref. – Dual	710013	-	-	1	1		
OPTIONAL ACCESSORIES							
	HA5491	-	-	-	-		
operation	11/10/01						
operation							
Additional Stations Kits	Kit Part #	i7811A	i7851A	i7812A	i7852A		
Additional Stations Kits	Kit Part #	i7811A Single Engine	i7851A Single Engine with Trim	i7812A Dual Engine	i7852A Dual Engine with Trim		
Additional Stations Kits CONTROL HEAD KITS	Kit Part #	i 7811A Single Engine	i7851A Single Engine with Trim	i7812A Dual Engine	i7852A Dual Engine with Trim		
Additional Stations Kits CONTROL HEAD KITS Single Top Mount, Control Head Kit	Kit Part #	i7811A Single Engine 1	i7851A Single Engine with Trim	i7812A Dual Engine	i7852A Dual Engine with Trim		
Additional Stations Kits CONTROL HEAD KITS Single Top Mount, Control Head Kit, with Trim	Kit Part # CH7810NT CH7810	i7811A Single Engine 1 -	i7851A Single Engine with Trim	i7812A Dual Engine - -	i7852A Dual Engine with Trim		
Additional Stations Kits CONTROL HEAD KITS Single Top Mount, Control Head Kit Single Top Mount, Control Head Kit, with Trim Dual Top Mount Control Head Kit	Kit Part # CH7810NT CH7810 CH7800NT	i7811A Single Engine 1 -	i7851A Single Engine with Trim	i7812A Dual Engine - - 1	i7852A Dual Engine with Trim		
Additional Stations Kits CONTROL HEAD KITS Single Top Mount, Control Head Kit Single Top Mount, Control Head Kit, with Trim Dual Top Mount Control Head Kit Dual Top Mount Control Head Kit, with Trim	Kit Part # CH7810NT CH7810 CH7800NT CH7800	i7811A Single Engine 1 - -	i7851A Single Engine with Trim	i7812A Dual Engine - - - 1 -	i7852A Dual Engine with Trim - - - 1		
Additional Stations Kits CONTROL HEAD KITS Single Top Mount, Control Head Kit Single Top Mount, Control Head Kit, with Trim Dual Top Mount Control Head Kit Dual Top Mount Control Head Kit, with Trim HARNESSES/TEES	Kit Part # CH7810NT CH7810 CH7800NT CH7800	i7811A Single Engine 1 - -	i7851A Single Engine with Trim - 1 -	i7812A Dual Engine - - 1 -	i7852A Dual Engine with Trim - - - 1		
Additional Stations Kits CONTROL HEAD KITS Single Top Mount, Control Head Kit Single Top Mount, Control Head Kit, with Trim Dual Top Mount Control Head Kit Dual Top Mount Control Head Kit HARNESSES/TEES Single Tee	Kit Part # CH7810NT CH7810 CH7800 CH7800 CM10060	i7811A Single Engine 1 - - -	i7851A Single Engine with Trim	i7812A Dual Engine - - 1 - 1 -	i7852A Dual Engine with Trim - - - 1		

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i7800 Electronic Engine Control

SPECIFICATIONS

Load vs. Actuation Speed			
Load (lbs)	Speed (in/sec)		
0	4.72		
40	3.14		
135	0.787		



Example of a twin engine sterndrive system.

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