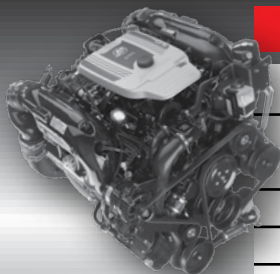


# 5.0 MPI ECT

# Sterndrive



For full details on this complete corrosion protection system see page 24-27.



SmartCraft Integrated Marine Technology maximizes performance and delivers a greater sense of security with innovative features.



Digital Throttle & Shift utilizes cable-less operation which eliminates helm maintenance and gives instant throttle response.



4-Star C.A.R.B. rating on 87 octane fuel for super ultra low emissions.

## SPECIFICATIONS

HP/kW	260 / 191
Max RPM (WOT)	4600 - 5000
Cylinders	V 8
Displacement (CID/L)	305 / 5.0
Bore X Stroke (in/mm)	3.73 x 3.48 / 95 x 88
Compression Ratio	9.4:1
Fuel/Ethanol Tolerance	87 Octane / up to 10% Ethanol
Engine Control System	PCM 09 w/SmartCraft CAN Capability OBD-M Diagnostics & O2 Sensors
Fuel Delivery System	GenII Cool Fuel-Alpha / GenIII Cool Fuel-Bravo
Fuel Injection System	Multi-point Electronic Fuel Injection (MPI)
Induction System	2 Piece Long Runner Intake w/75mm throttle body (80mm w/DTS)
Ignition System	Crank Fired High Voltage Switch w/Knock Control
Charging (Amp/Watt)	65 / 917 Alternator
Water Drain System	Single Point Manual (Alpha) Three Point Manual (Bravo) Air Actuated Single-Point (FMC or SeaCore)
Exhaust System	EDP Coated Iron Manifold w/ Dry Joint Elbow
Cooling System	Thermostatically Controlled, Raw Water
Accessory Drive System	Serpentine Belt
Recommended Oil	Mercury MerCruiser Full Synthetic 20W-40W, NMMA FCW Rated
Engine Guardian System	Low oil pressure, high coolant temperature, low seawater pressure, low voltage, over-rev control, knock control
Dimensions (LxWxH) in	32 x 30 x 22
Dimensions (LxWxH) mm	814 x 740 x 559
Weight w/Alpha (lbs/kg)	1059 / 480
Weight w/Bravo One (lbs/kg)	1117 / 507
Weight w/Bravo Two (lbs/kg)	1132 / 513
Weight w/Bravo Three (lbs/kg)	1019 / 518
Freshwater Cooling	Optional or Standard on SeaCore
Digital Throttle & Shift	Optional

## KEY ATTRIBUTES

### ✓ **Sequential Multi-Port Fuel Injection**

Precisely outlines the exact amount of fuel for all driving conditions.

#### **Benefits:**

- *Easy starts, regardless of temp.*
- *Better throttle response.*
- *Smooth, stable idling.*
- *Increased fuel efficiency.*
- *Reduced cost of operation.*

### ✓ **Exclusive GEN III Cool Fuel Module (Bravo)**

Water cooled fuel delivery system provides hi-PSI fuel to the injectors.

- Cools fuel to prevent vapor lock
- Contains water/fuel separating filter

*Reliability with Ease of Maintenance.*



### ✓ **High Output Alternator**

**65 Amps @ Maximum RPM    38 Amps @ idle.**

Provides battery charging on demand allowing use of electronics, alarms & other accessories. *Dependability.*



### ✓ **Drive Lube Monitor**

Easy-to-see translucent bottle for checking level of gearcase lubricant with audible level warning. *Provides drive protection and simple maintenance.*

### ✓ **Exclusive Engine Guardian**

Senses potential problems, alerts operator and even reduces engine power when needed. *Peace of Mind; protects your investment.*

#### **Vital functions monitored:**

- Low Oil Pressure
- Low Voltage
- Engine Temperature
- Over-Rev Control
- Low Drive Lube
- Knock Control

## KEY ATTRIBUTES

### ✓ **Dry-Joint Exhaust Design**

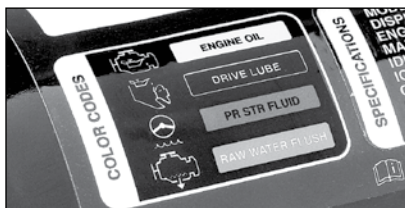
Separates cooling water & exhaust at junctions to prevent water leaks from reaching critical engine components.

*Long-Term Endurance with built-in Reliability*

### ✓ **Color-Coded Service Points**

Allows easy checking of fluids levels and convenient filling of reservoirs.

*Ease of Ownership.*



### ✓ **Simple-Maintenance Features**

**Easy Access Oil Dipstick** (Fitting allows oil to be pumped out)

**Top Mount Oil Fill & Top/Front Mounted Oil Filter**

*Convenient to use and Easy to service.*

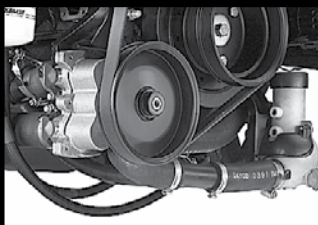
### ✓ **Convenient Water Drain Systems**

Simplifies periodic maintenance and allows boaters to extend their boating season into the cooler months.

Single-Point Drain on  
Alpha drive models



Three-Point Manual Drain  
on Bravo drive models



Air Actuated Single-Point  
Drain on FWC  
or SeaCore models



**Refer to Page 62 for more information**

### ✓ **High-Displacement Brass Seawater Pump**

Increases cooling system capacity, more resistant to wear.

*Improved durability.*

## ADDITIONAL FEATURES / BENEFITS

<b>MerCruiser's ECT Technology</b>	Multiport Fuel Injection (MPI) PCM09 Control Module Catalyst System (Exhaust Manifolds) <b>Dual Oxygen Sensors on each manifold</b> This system provides excellent performance while producing Super Ultra-Low emission levels
<b>Proven V8 Durability</b>	GM cast iron base engine with long intake runner manifold for better acceleration and handling heavy loads.
<b>High Voltage Ignition</b>	High energy ignition with knock control provides instant starts and more power for performance.
<b>SmartCraft</b>	Delivers information regarding key engine functions from fuel usage, RPM & engine guardian to slow trolling RPM control
<b>EDP (Electro- Deposition Paint) Coating</b>	Featured on the Exhaust manifolds, risers, elbows & Thermostat housings add to corrosion endurance of these components
<b>Power Steering</b>	Reduces steering effort and provides enhanced hull control at all boat speeds
<b>MerCathode Corrosion Protection</b>	Standard on Bravo models, available on Alpha models. This active cathodic corrosion protection system feeds electrons to underwater hardware and drive units.

## AVAILABLE DRIVES

**Alpha, Bravo One, Bravo Two, Bravo Three**

Visit **[mercurymarine.com](http://mercurymarine.com)** for details  
on the best performing drives in the world.