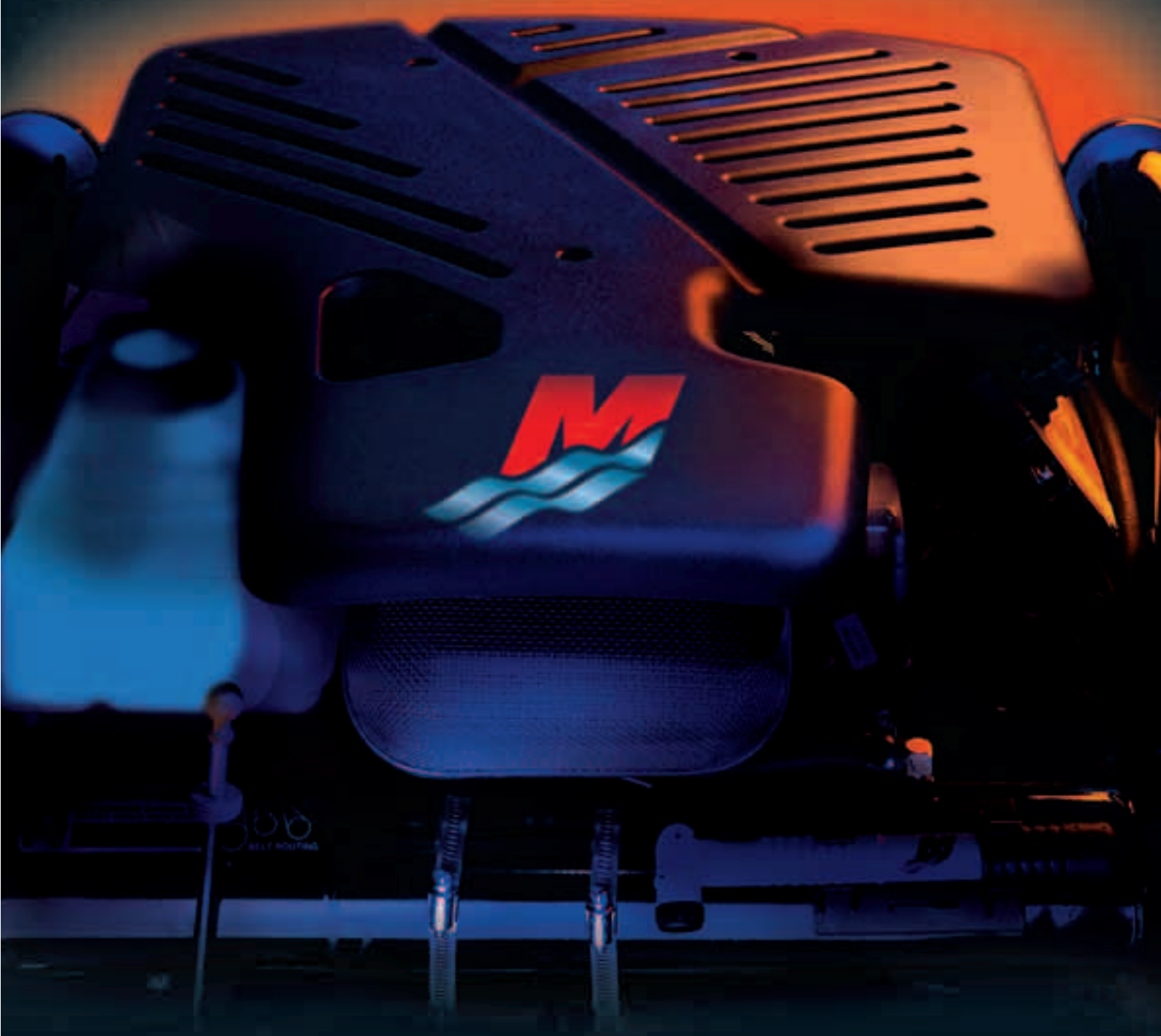


MERCURY *MerCruiser*



PETROL STERNDRIVES & INBOARDS

www.marinepower.com

2005



MERCUISER STERNDRIVES. LARGER THAN LIFE.

The exclusive Mercury MerCruiser family of electronic multi-port fuel injection (MPI) petrol performers borrows the very best technology from a winning racing heritage. These include the advanced technology MX6.2 and 496 Magnum models.

The 496 MAG and the 496 MAG High Output (HO) feature Mercury's PCM processor. This optimises fuel delivery, knock control and ignition timing independently for each cylinder, resulting in precise performance. There are unprecedented levels of control via the SmartCraft integrated management system. High specification components throughout are designed for best-possible robustness and extended life. This is great MerCruiser performance with no holding back.

Mercury MerCruiser's highly responsive, carbureted petrol power runs from 135HP propshaft to 250HP, with a choice of four universally popular sterndrive models, all with excellent power-to-weight ratios. These carburetor MerCruisers are outstanding value per horsepower. Up to 15% more power per engine is provided by the high flow cylinder heads, which greatly improve the fuel/air distribution. This is the best technology around for affordable, ever-reliable performance boating.



TURN-KEY STARTING SYSTEM

A new turn-key starting system utilises a carburetor with an automatic fuel enrichment system instead of the old-style choke. No priming or throttle handle adjustments, just turn the key. The result is consistent, effortless starts even in cold weather. Turn-key starting is now standard equipment on all carbureted sterndrives and inboard engines. Plus, this system can now be fitted to engines manufactured since 1997.

AUDIO WARNING SYSTEM

Now also standard equipment on 3.0L MerCruiser engines. This system gives boaters added peace of mind by warning of low oil pressure, high engine temperature and low drive lube levels.

POWER TRIM XD CYLINDERS

Couples precise trim position with drive protection helping to cushion the drive unit upon impact with underwater objects. A hydraulic memory system safely returns the drive to the previous trim position so you maintain steering control.



NEW SHIFT PLATE DESIGNS

The shift system on all sterndrives has been improved to provide smoother, easier shifting.



ALPHA WATER DRAIN SYSTEM

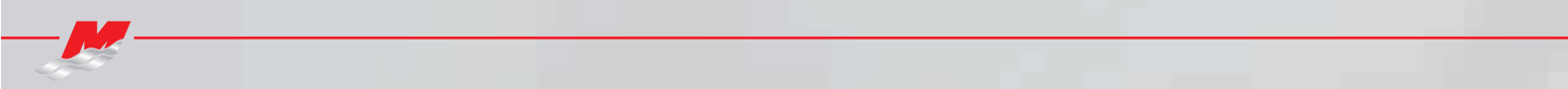
Available on SmartCraft models coupled to the Alpha® drive. Easy to access and operate.



EASY OIL DRAIN SYSTEMS

Standard on all petrol sterndrive models.

STERNDRIVES	3.0L	4.3L	4.3L MPI	5.0L	5.0L MPI	5.7L	350 MAG MPI	350 MAG MPI HORIZON	MX6.2 MPI	MX 6.2 MPI HORIZON	496 MAG	496 MAG HO
Propshaft HP/KW ¹	135/101	190/142	220/164	220/164	260/194	250/186	300/224	300/224	320/239	320/239	375/280	425/317
Displacement Litre/CID	3.0/181	4.3/262	4.3/262	5.0/305	5.0/305	5.7/350	5.7/350	5.7/350	6.2/377	6.2/377	8.1/496	8.1/496
Cylinders	L-4	V-6	V-6	V-8	V-8	V-8	V-8	V-8	V-8	V-8	V-8	V-8
Bore & Stroke (mm)	101/91	101/88	101/88	95/88	95/88	101/88	101/88	101/88	101/95	101/95	108/111	108/111
Compression Ratio	9.3:1	9.4:1	9.4:1	9.4:1	9.4:1	9.4:1	9.4:1	9.4:1	9.0:1	9.0:1	9.1:1	9.1:1
Fuel System	2V Carb	2V Carb	MPI 2V	Carb	MPI	2V Carb	MPI	MPI	MPI	MPI	MPI	MPI
Full Throttle RPM Range	4400-4800	4400-4800	4400-4800	4400-4800	4600-5000	4400-4800	4600-5000	4600-5000	4800-5200	4800-5200	4400-4800	4600-5000
Ignition Type	EST Analog	Thunderbolt V	ECM 555	Thunderbolt V	ECM 555	Thunderbolt V	ECM 555	ECM 555	ECM 555	ECM 555	PCM 555 Distributorless	PCM 555 Distributorless
Alternator Amp.	65	65	65	65	65	65	65	65	65	65	65	65
Length ² (cm)	73	69.6	69.6	81.3	81.3	81.3	81.3	81.3	81.3	81.3	88.9	88.9
Width (cm)	66	74	74	74	74	74	74	74	74	74	83.8	83.8
Height ⁴ (cm)	53.3	53.3	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	61	61
Weight ⁵ (kg)	-	-	-	-	-	-	-	-	-	-	-	-
Weight ⁶ (kg) Alpha	288	385	393	430	433	430	433	-	-	-	-	-
Weight ⁶ (kg) Bravo One	-	-	-	449	451	449	451	475	451	475	544	544 (Bravo1X)
Weight ⁶ (kg) Bravo Two	-	405	414	456	459	456	459	482	459	482	553	551 (Bravo2X)
Weight ⁶ (kg) Bravo Three	-	410	419	460	463	460	463	486	463	486	557	556 (Bravo3X)





TOW SPORTS & INBOARDS. GIVING YOU MORE PULL.

Mercury MerCruiser's petrol inboards and towboat sports specials are runaway favourites with boaters worldwide. Skiers in the know, from world class tournament winners to happy weekenders, know that getting the most from their sport means harnessing MerCruiser, the biggest in power and best in drive trains.

There are big block levels of power from the high-revving MX6.2 (320HP) and the sophisticated 8.1 litre family (320-420HP), with entirely new engine management system. The pure power and extended maintenance of the Horizon series, at 300HP, 320HP and 370HP propshaft, are the ultimate combination for the serious boater. Built for performance and efficiency, the Horizons require scheduled servicing at longer intervals. There are also excellent value 5.7 litre carburetor Tow Sports (270HP) and inboard (260HP) models.

For 2005 the 8.1S DTS engine features an inboard electric shift transmission, incorporated on all inboard engines equipped with SmartCraft® Digital Throttle & Shift (DTS). This results in reliable shifts and exceptional durability. Transmission guardian is a DTS feature that protects transmissions from low or high fluid levels or plugged filters.



HIGH SPECIFICATIONS & EXTENDED LIFE

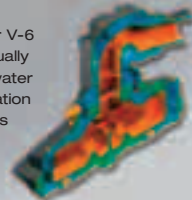
Thunderbolt V hi-energy ignition system provides carburetor models with digital electronic spark advance for best responsiveness and overall reliability.

A Powertrain Control Module (PCM) features advanced electronics for more precise fuel and spark control plus top-end throttle response on 8.1S Multipoint fuel injected models.

Ceramic coated exhaust elbows and manifolds provide the ultimate in corrosion protection.

DRY-JOINT EXHAUST

Used on all MerCruiser V-6 and V-8 models, it virtually eliminates the risk of water – either from condensation or seawater – finding its way into critical engine components.



AIR-ACTUATED SINGLE-POINT WATER DRAIN

A hand-operated air pump drains the raw-water cooling circuit through two valves located low on the engine. Standard or optional depending on SmartCraft Bravo® sterndrive and inboard models.



MULTI-PORT FUEL INJECTION SYSTEM

The MPI system injects fuel to an intake port adjacent to each cylinder. This results in a precisely tuned and efficient engine offering exceptional acceleration, throttle response and dependable turnkey starting.

TOW SPORTS & INBOARDS	5.7L	350 MAG MPI	350 MAG MPI HORIZON	MX 6.2 MPI	MX 6.2 MPI HORIZON	8.1S HORIZON	8.1S HO	5.7L	BLACK SCORPION	MX6.2 BLACK SCORPION
Propshaft HP/KW ⁽¹⁾	260/194	300/224	300/224	320/239	320/239	370/276	420/313	270/201	330/246	340/254
Displacement Litre/CID	5.7/350	5.7/350	5.7/350	6.2/377	6.2/377	8.1/496	8.1/496	5.7/350	5.7/350	6.2/377
Cylinders	V-8	V-8	V-8	V-8	V-8	V-8	V-8	V-8	V-8	V-8
Bore & Stroke (mm)	101/88	101/88	101/88	101/95	101/95	108/111	108/111	101/88	101/88	101/95
Compression Ratio	9.4:1	9.4:1	9.4:1	9.0:1	9.0:1	9.1:1	9.1:1	9.4:1	9.4:1	9.0:1
Fuel System	2V Carb	MPI	MPI	MPI	MPI	MPI	MPI	2V Carb	MPI	MPI
Full Throttle RPM Range	4200-4600	4400-4800	4400-4800	4600-5000	4600-5000	4200-4600	4400-4800	4400-4800	4800-5200	4800-5200
Ignition Type	Thunderbolt V	ECM 555	ECM 555	ECM 555	ECM 555	PCM 555 Distributorless	PCM 555 Distributorless	Thunderbolt V	ECM 555	ECM 555
Alternator Amp.	65	65	65	65	65	65	65	65	65	65
Length ⁽²⁾ (cm)	109.2	109.2	109.2	109.2	109.2	119.4	119.4	109.2	109.2	109.2
Width (cm)	74	74	74	74	74	83.8	83.8	74	74	74
Height ⁽³⁾ (cm)	55.9	55.9	55.9	55.9	55.9	61	61	55.9	53.3	53.3
Weight ⁽³⁾ (kg)	400	390	427	390	427	513	513	379	373	373

(1) Power rated in accordance with NMMA procedure SAEJ1228 (ISO 3046) and declared according to ISO 8665. The declaration of incorporation for EMC and Recreational Craft Directives is stated on the green wire tag which is attached to each engine.

(2) Gear ratios, size and weight available upon request.

(3) Taken from forward end of engine to centerline of transom on sterndrives and on inboards from forward end of engine to aft-most portion on transmission. Rounded up, see MerCruiser installation manuals for details.



MERCUISER RACING. FEEL THE NEED FOR SPEED.

Nobody has come close to matching the Mercury MerCruiser passion for speed. That's because no one else has ever matched the commitment to power and innovation. The Mercury Racing line-up continuously benefits from the latest technologies, leading to ever growing power and speed on the water. Like the all-new Integrated Transom System with its seven-inch setback, integral power steering and strengthened gimbal bracket, providing unsurpassed performance and outstanding durability.

New for 2005 is the awesome HP1075 SCI, benefiting from twin Lysholm superchargers and Smartcraft PCM, controlling fuel, spark, boost and knock limits. The HP525 EFI model has also been updated with a new power steering reservoir, now standard on single, port and starboard engines.



POWER & INNOVATION

The HP525 EFI has Edelbrock aluminium cylinder heads, designed exclusively for the engine, forged crankshaft and aluminium pistons, multiport fuel injection with high-flow throttle body, flame arrestor and longer exhaust runners, plus low maintenance closed cooling.

Bravo One XR drive includes enhancements such as dual water pickup and low water pickup housings.



A one-piece serpentine belt system requires less horsepower to drive the engine accessories, is easier to service, needs less maintenance and provides unsurpassed belt life.



HP525 EFI

Got a need for speed? With unmatched high horsepower and torque throughout the entire RPM range, the HP525 EFI (525HP) means business. This is the first sterndrive from Mercury Racing to feature an advanced microprocessor (PCM 555) for cleaner fuel burn, better spark timing and enhanced performance across the entire engine operating range.



MAXIMUS™

The new five-blade Mercury Racing Lab Finished™ MAXIMUS™ propeller enhances the performance of all Mercury Racing engines outfitted with Bravo One®, Bravo One XR™ and Bravo One XR Sport Master drives. The additional blade adds smoothness to the engine operation. Hole shot and midrange punch are where the new MAXIMUS really shines.

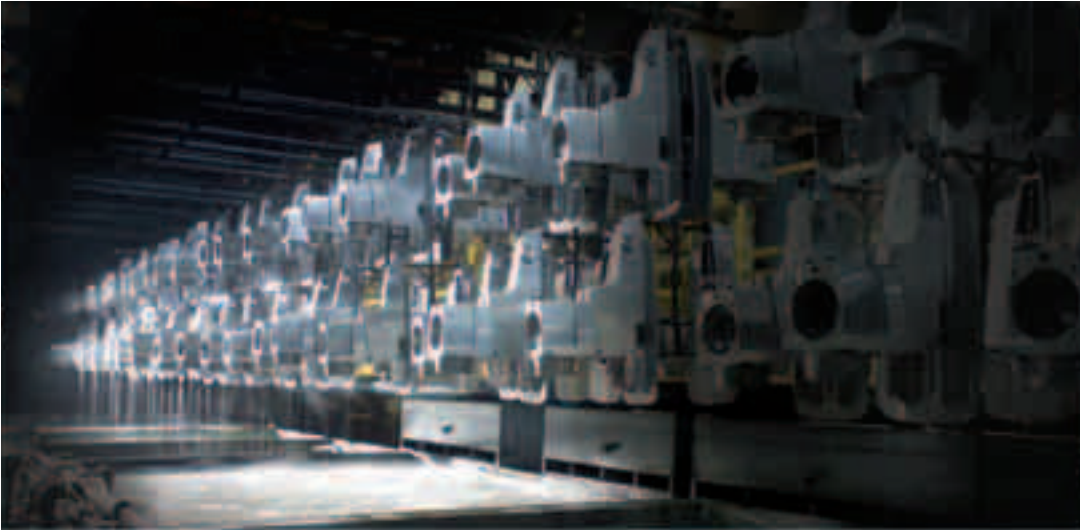


RACING	HP525 EFI	HP1075 Sci
Propshaft HP/KW ⁽⁴⁾	525/394	1075/802
Displacement Litre/CID	8.2/502	9.1/557
Cylinders	V-8	V-8
Bore & Stroke (mm)	114/102	114/111
Compression Ratio	8.75:1	8.00:1
Fuel System	MPI	Fuel injection
Full Throttle RPM Range	4800-5200	5600-6000
Ignition Type	PCM 555 Distributorless	PCM 03 Distributorless
Alternator Amp.	65	65
Length ⁽⁵⁾ (cm)	-	-
Width (cm)	-	-
Height ⁽⁵⁾ (cm)	-	-
Weight ⁽⁵⁾ (kg)	545	782

(4) Taken from crankshaft centerline on sterndrives and inboards. Rounded up, see MerCruiser installation manuals for details.

(5) Approximate total dry engine and drive weights (kg). Individual units may vary slightly.

All models and specifications are subject to change without notice or incurring obligation to modify previously manufactured products. Some engines shown may have optional equipment and accessories.



MERCUISER DRIVES.

SMOOTHER AND STRONGER THAN EVER.

Mercury MerCruiser® continues to offer the broadest range of drives in the industry. With 20 drives, including Alpha, Bravo, Bravo X, Bravo XR, and Bravo Diesel drives, no one delivers as many proven drive options as MerCruiser.

We've taken our industry-leading drive technology to the next level by enhancing performance, reliability and satisfaction.

TECHNOLOGICAL ADVANCEMENTS FOR 2005

ALPHA® DRIVE. All MerCruiser Alpha drive MPI models feature revised engine-management programming for reduced shift effort and noise, vibration and harshness NVH.

BRAVO® DRIVE. Refinements to the Bravo drives focus on smoother shifting. A new shift lever and back cover on all Bravo models provide a more defined neutral position. And a new clutch design makes shifting dramatically smoother with an 85% reduction in shift-related NVH. The new Bravo drives are the smoothest-shifting sterndrives available. Bravo Three® drives also get a redesigned thrust bearing for even longer life. And a new ribbed top cap on X models provides greater structural integrity and facilitates cooling.



ALPHA

Straightforward, solid, versatile, fast and the biggest-selling sterndrive of all time. The ideal for runabouts and small cruisers.



BRAVO TWO

The favourite drive for big family cruisers, getting on plane quickly then facilitating lower engine revolutions for superior fuel economy.



BRAVO X

Designed specially for big block 8.1-litre engines, this is a super-strength drive with high performance attributes.



BRAVO ONE

This famous drive excels under the high stress requirements of performance boats. Heavy duty, yet entirely hydrodynamic.



BRAVO THREE

The leader in twin, counter-rotating propeller sterndrives, designed for rail-like holding through turns and still faster acceleration.



BRAVO XR

The XR is designed specially for the racing big block engines.

INTEGRATED DIESEL PROPULSION FROM TWO INDUSTRY LEADERS.

Two marine industry leaders, Mercury MerCruiser and Cummins Marine, have come together to create the next generation of diesel propulsion for pleasure boats and commercial applications.

Cummins MerCruiser Diesel has been formed to become the pre-eminent global supplier of integrated diesel propulsion: the first prop-to-helm performance source.

What does it mean for you? Diesel power that will blast you out of the hole. Power to respond to your every command. Power to deliver the cruising speed, durability and fuel efficiency that you should expect from world-class diesel systems. Power to count on, every time.

Power from Cummins MerCruiser Diesel.





SMARTCRAFT. KNOWLEDGE IS POWER.

Mercury MerCruiser wanted to give you total engine knowledge whenever you're on the water. The result is SmartCraft, the world's most advanced marine control system.

SmartCraft combines power, technology and information via the boating world's most sophisticated total vessel intelligence system. Knowledge is power and SmartCraft, together with your big block MerCruiser petrol engine, makes you lord and master of your boat.

Fuel flow; consumption rates; estimated range; air, water and engine temperatures; battery charging; current speed; maintenance and service advice – all are monitored for you by SmartCraft. Boating doesn't get any smarter than this.

SmartCraft is a total boating system for total boating information. Always look for the SmartCraft diamond.



SC5000 SYSTEM VIEW

Connects to your single or dual engine's electronic control modules via a single data-link cable running from engine to helm. Provides constant, up-to-the-second information on all critical engine, boat and environmental conditions on a single, easy-to-read color LCD monitor.



DIGITAL THROTTLE & SHIFT

Brings digital precision to engine throttle and shifting for smoother shifts, precise throttle control and superior performance. Proven in over 35,000 hours of failure-free testing.



SMARTCRAFT FEATURES

Digital unit on the engine's electronic controller gathers data from around the boat.

SmartCraft analyses the data to give you precisely the information you need.

Simple to install multi-function gauges and easy-to-read system monitor.

Integral Engine Guardian scouts for potential problems so you can take action.

TrollControl maintains your idling speed in any kind of water.



SC1000 SYSTEM MONITOR

Takes data for several key boat and engine functions and displays it in a single, compact, digital monitor that provides constant, instant updates.



LOOK FOR THE SMARTCRAFT LOGO

Does your new boat have SmartCraft technology? Look for the Mercury SmartCraft diamond logo. It's your assurance that you're getting the most advanced marine propulsion system available.





NUMBER ONE IN EVERY WAY.

After more than 40 years, Mercury MerCruiser is still taking the water by storm.

As the world leader in sterndrive and inboard technology, MerCruiser is continuously dedicated to improving upon the most advanced power on the water with a number of technological advancements being introduced in 2005.

Whatever your boating choice – whether you run a hot sportsboat, spirited runabout, fine family cruiser, serious fishing craft or hard driven workboat – MerCruiser provides the big-power pleasure and reliability.

Supreme in marine propulsion and with well over 2.5 million customers to prove it. MerCruiser: still number one in every way.

MERCURY
MerCruiser

GENUINE PARTS KEEPING YOUR ENGINE RUNNING AS FACTORY NEW.

When you are the proud owner of one of the best marine engines in the world, you want to be sure you are maintaining it with the best parts and accessories available – Quicksilver. It is a premium line of engine parts, accessories, oils, lubricants and engine-care products that are designed, built and tested to the same high quality standards of performance and corrosion resistance as your engine. Regular maintenance using these specially engineered Quicksilver parts and accessories will keep your engine running stronger and longer, season after season.

It doesn't end there. Quicksilver is constantly updating boating technology with new gauges, electronics, propellers, watersports products and more.

SPECIALY FORMULATED OILS

Quicksilver oils and lubricants have been formulated specially for use in Mercury MerCruiser engines, keeping them running smoothly, clean and virtually trouble-free.



ONLY THE RIGHT PROP WILL DO

Quicksilver propellers are precision engineered for Mercury MerCruiser sterndrives, tow sports and inboards.

ENJOYING YOUR WATERSPORTS

The latest line of Quicksilver watersports products offers everything you need to get the most out of your time on the water.



MERCURY
MerCruiser



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