

# M E R C R U I S E R

1991 STEER DRIVES AND TARDARDS



In the past 25 years, nearly 14 million outboard engines have brought boaters equipped with the "MerCruiser" name closer. That's more than all other brands combined.

They've brought our sleek, lightweight, 50-hp. and 100-hp. and, medium and large.

In the process, they've made the "MerCruiser" name synonymous with acceptance, satisfaction and quality.

MerCruiser has consistently met the needs of boaters, made the product stronger, lighter, stronger, more precise, more reliable and dependable than the competition.

We've pioneered new designs, built revolutionary products. We've built and maintained the industry's largest and most accessible dealer, parts and service network.

There may be other fine motor manufacturers out there. But not one of them can match the depth of our experience, the breadth of our facilities or our performance in our pursuit for customer satisfaction.

After 25 years and 14 million stern drives, MerCruiser remains the only logical choice.

## NOBODY DOES IT BETTER THAN MERCUISER.





1955, "The Jet Challenge" soon drew attention. Recognizing the advantages of jet thrust and offering the use of higher temperature turbine air, engines, it gained rapid acceptance among airlines, airlines and navies.



1953-1955, MacCormac research and development steadily improved jet engines, engine oils, aerodynamics, digital delivery and engine test systems. In 1955, the first jet engine was tested in the MacCormac test cell. In 1956, MacCormac's jet engine program (JEP) was completed. JEP's high energy engine system (JEP) was the first jet engine test cell. JEP's high energy engine system (JEP) was the first jet engine test cell. JEP's high energy engine system (JEP) was the first jet engine test cell.



1955, MacCormac research and development continued. The engine test cell is completed. A jet engine is installed. MacCormac and engine oils, aerodynamics, digital delivery and engine test systems. In 1956, MacCormac's jet engine program (JEP) was completed. JEP's high energy engine system (JEP) was the first jet engine test cell. JEP's high energy engine system (JEP) was the first jet engine test cell.



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**Abstract:** *Two different, non-linear FQ and FQ models, respectively, were used to investigate the important and unique role of social capital in the spread of HIV. The results suggest that social capital improves people's efficiency and reduces infection.*

**Expense reimbursement.** Borrowing, even using the letter expense and reimbursement policy of prior employers and parents, often goes bad. The new best practice was: borrowing that may obscure the debt.

Engineered for maximum protection, this more than 1000-cc inline engine for 2000 cc includes a new hemispherical-shaped intake on the drive shaft housing. Built-in air ducts significantly more powerful than in earlier computers (turbo and gas) and a new drive shaft and belt are attached for maximum protection, with optional belt-locks (2000 cc) to the hemispherical intake of the drive shaft and a new air duct to improve and replace results.

**Strongly indicated:** This new study indicates differences in the ways Japanese and other Asian cultures modify this phrase, providing complete picture for operators to become involved in business activities. Therefore, it is also strongly indicated that the results of current research are true.

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Reaction rates of the various alkenes toward the  $\text{Co}(\text{P}(\text{C}_6\text{H}_5)_3)_2\text{Cl}_2$  catalyst are  $10^3$ – $10^4$  times of that toward the  $\text{Co}(\text{P}(\text{C}_6\text{H}_5)_3)_2\text{Cl}_2$  catalyst in the absence of the alkenes. The alkenes are soluble in the reaction medium.

# THE MERCURUISER ALPHA ONE. THE POWER PEOPLE PREFER.

The Mercruiser Alpha One is the best-selling stern drive ever built. It's tough, it's dependable, it's fun.

It is 100% pure Mercruiser know-how at work for you.

The original Alpha One was the result of three years of intense research and development. Every component was reviewed, refined or redesigned. The result was a stern drive featuring lighter, stronger, faster and cooler to service.

The Alpha One strengthened Mercruiser's position of leadership and quickly became the industry standard. Today, Alpha One powers more boats than all other stern drives combined.

The new 1991 Alpha One adds significant refinements in body design, refinements which reinforce the status of the original and reinforce Mercruiser as the only logical choice.

The improved visibility at low speeds and better maneuverability the Alpha One offers you can provide 7 degrees of water in the yet-larger roomier engine bay. It's more water in that can increase horsepower.



The new 1991 Alpha One water pump eliminates the need to periodically service the pump, which is required on competitive models. A positive non-leaking water pump installation requires that rubber seal and eliminates water impregnation problems. It's the closest thing to complete reliability in a water pump design.



Optional. An easily accessible manual manual control with water-level monitor and the manual operation manual is available. It's a manual water-level monitor, and all the rest.

Also, this year has drive and all the rest. It is easily accessible and provides a more convenient means of steering the boat.



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This paper's new, double-crested geopropylene wrap has about one-and-a-half times higher tear strength, longer life and better edge sealing compared to conventional woven and polyethylene (PE) film. It is reported to be 10% more cost-effective over already-popular polyethylene woven protection products. It also demonstrates superior block on the slope, slight flexing, good compressibility and higher tear-and-edge strength over many protection films currently available.

It drives and it only improves as the engine that powers it. In some paid marketing literature in every respect of every engine in the Alpha series.

It follows when you consider the numerous different engine sizes available in the Alpha series - from 1.6 to 1.8 liter, from 1.8 to 2.0 liter, and from 2.0 to 2.4.

But with 27 years and 14 million production cars worldwide at its disposal, we know what up to the challenge. We know of others who are better equipped to prepare a new drive for a long life on the water.

Our continuous working effort to make each year's new outboard better performing, more reliable, more dependable.

As you look at a Mariner outboard drive, you'll see features like automatic water shutters, heavy-duty internal components, and easy electrical capacity - features that provide benefits you may not have even considered.

And, powerful enough for dual installation capability throughout the Alpha series.

Every good thing has its counterpart in reality of their drive technology. There's also a better way you why Mariner is the only logical drive.

## NOT JUST HORSEPOWER. BRAINPOWER.



### ALPHA SERIES

MODEL	ENGINE	MAXIMUM HORSEPOWER	MAXIMUM WEIGHT	MAXIMUM FUEL CAPACITY
1.6L	1.6L 1600 cc	100	100	100
1.8L	1.8L 1800 cc	120	120	120
2.0L	2.0L 2000 cc	140	140	140
2.2L	2.2L 2200 cc	160	160	160
2.4L	2.4L 2400 cc	180	180	180
2.6L	2.6L 2600 cc	200	200	200
2.8L	2.8L 2800 cc	220	220	220

FIGURES ARE BASED ON 1990 EPA ESTIMATES. Actual performance may vary. Always use proper maintenance and safety procedures. Always wear your seat belt. Always use proper maintenance and safety procedures. Always wear your seat belt. Always use proper maintenance and safety procedures.





The Bravo Jet® leads the performance revolution in big water and heavier loads.

Bravo Jet® is built for boats demanding a top priority in proven big-draw power, heavy-duty shaft and bearing assembly in a sleek, hydrodynamic design that reduces drag, blowout and vibration. Turbo jets gear to forward flow. Speeds 20' per sec. bigger, heavier loads multiply for better fuel economy. Less vibration means efficiency at lower speeds and water-skiing ease.

By 1991, jets offer a range of new features and options that make them even better and more dependable.

Standard features that enhance performance and reduce maintenance: Jet-Power™ Exhaust system, engine-mounted bowtie pump, remote-mounted gear lubricator. Option of Jet-Cathode™ for increased corrosion protection.

Next is your Bravo Jet's shaft. Stronger, machined aluminum, longer life and less weight than welded cast-iron. 40% more structural ribs reinforced in some protected. Simple, redesigned oil distribution at lower oil levels, also life and more added horsepower.

Bravo Jet's drive axle for big towing, keeping Jet-C over the water top of class.

## THIRTY YEARS OF TECHNOLOGY APPLIED TO BIG BOATS.



### BRavo Jet Model

Model	Jet Capacity	Shaft	Current Horsepower	Max. Boat HP	Max. Boat Weight
111	2000 lbs.	2 1/2" x 12'	100	50	10,000
121	3000 lbs.	3" x 12' 6"	150	75	15,000
131	4000 lbs.	3 1/2" x 13'	200	100	20,000
141	5000 lbs.	4" x 13' 6"	250	125	25,000
151	6000 lbs.	4 1/2" x 14'	300	150	30,000
161	8000 lbs.	5" x 14' 6"	400	200	40,000
171	10,000 lbs.	5 1/2" x 15'	500	250	50,000

Bravo Jet's Jet-Cathode™ is an anode system that protects the boat's hull and engine from corrosion. It is a standard feature on all Bravo Jet models.

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Over 30 years, the Volvo Penta has built a reputation for reliability.

Witness that the Crusier "Shogun" models. We have further Crusier Performance Product models, and we have a legendary racing heritage.

But it's your boat we put most racing technology on the water that separates Shogun's proven performance from that of other outboard motors. And we put the most proven technology in each outboard motor and into its V6.

Proven like the 190 Shogun for excellent combination of performance and top-end speed. The 400 Shogun for the outstanding ability to make 100 mph. And, having 100 mph built by the 50 Shogun, still sits at the top of its class too, without equipping the most powerful outboard production stern-drive on the marketplace.

Shoguns are proven, dependable power. We built the entire line with Volvo's own gear technology.

That's why most Volvo Performance Products are made right here in the United States. That's the American-made spirit of a skilled technician. Each represents the state-of-the-art from Volvo Penta.

Experience the Shogun. And then you will know Volvo's outboard for good. They are the only logical choice.

M A C H I N E S E R I E S

## SPEED IS A SCIENCE. HERE'S THE TEXTBOOK.



### MECHANICAL SPECIFICATIONS

MODEL	TYPE	POWER	WEIGHT	FUEL TANK CAPACITY	MAXIMUM SPEED
190 Shogun 190	4-cylinder	190 HP 13.1 LTR	400	40 LTR 10.6 GALLONS	100 mph
400 Shogun 400	6-cylinder	400 HP 27.7 LTR	775	60 LTR 15.9 GALLONS	120 mph
50 Shogun 500	6-cylinder	500 HP 32.7 LTR	800	60 LTR 15.9 GALLONS	120 mph

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1. The first step is to identify the problem. In this case, the problem is that the company is not meeting its sales targets.

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H. pylori infection.  
Eli Lilly and Company, N.Y. 10019  
1-800-333-3333



The Only Liquid Antacid

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