



8 HP

New Model

YAMAHA Outboard Motor P-165

The new water-cooled 165cc twin model has recently added to the line of Yamaha lightweight outboard motors for utility and recreational purposes. The new model which is designated P-165 features higher performance plus excellent economy for versatile purposes on the water such as fishing, trolling, skin diving, water skiing and any other utility or fun uses.

First, your attention will be invited to its unique low-silhouetted style to break the image of outboard motor's conventional outlook. This style has been resulted from the new design of recoil hand starter to make the top cowling appreciably lower. It smoothly develops the max. power of 8hp/5,000 rpm which is excellent in its own class.

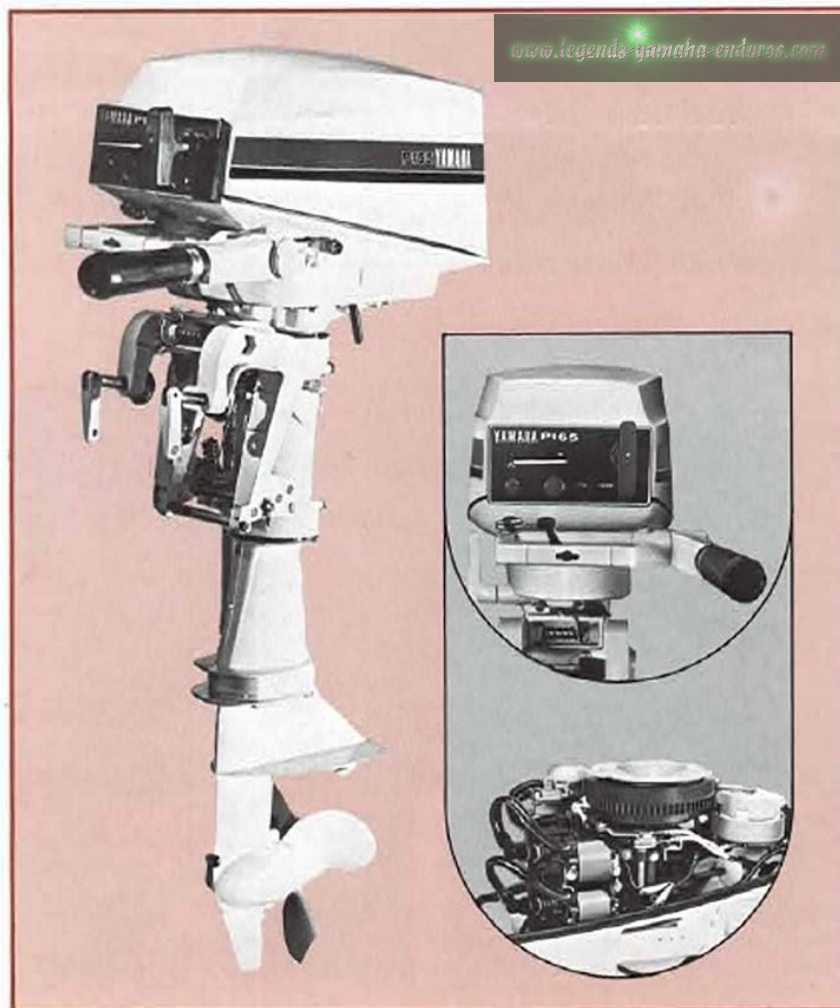
High performance twin-cylinder

An iron-sleeved aluminum 2-stroke twin-cylinder with a down draft carburetor and reed valve raises breathing efficiency to a maximum to assure steady performance at any time.

Its ideal compactness and lightness will prove tremendous advantages in handling.

Provided with a separate ignition coil and large-sized flywheel magneto, the P-165 features a lot of technological merits including easy starting, smooth idling and trolling. It also assures exceptionally effortless steering operations with top class accuracy, backed up by the forward-neutral-reverse shift gear and full-pivot steering system that have been first ever employed in this class of outboard motors.

All controls are nicely grouped on the black mask front panel and the engine can be handled with great ease. The twist grip type accelerator makes speed control easier.



SPECIFICATIONS

Engine	2 cycle, Twin
Brake horsepower	8 hp @ 5,000 rpm
Displacement	164 cc (10.0 cu.in.)
Bore & Stroke	50x42 mm (1.969x1.654 in.)
Ignition system	Flywheel magneto
Starting	Recoil hand starter
Cooling	Water
Controls	Twist grip
Gear shift	Forward-Neutral-Reverse (Full Pivot Steering)
Gear ratio	13 : 27
Propeller (Bladex Dia. x Pitch)	3x229 x178 mm (3x9x7 in.)
Transom height	S 15 in. L 20 in.
Stern adjustment	4-position
Fuel	Gas-oil mixture (50:1)
Fuel tank capacity	17 lit. (4.5 US gal.)
Weight	25 kgs. (55 lbs.)

Motorization of fishing boats

Japan is one of the largest fishing countries in the world. According to the official survey, total fishery output amounted to 8,610,000 tons exclusive of whales in 1969. Fishery in Japan is so varied in scale and method.

So far as fishery output is concerned, medium-small scale fishery takes a lion's share, but as for output value, coastal fishery attains almost same level as medium-small scale fishery. Fishing by boat is the most popularized method of coastal fishery in Japan. Shallow-sea cultivation is also progressively becoming active due to the improvement of cultivation techniques. Modernization of coastal fishery is now going on very smoothly in Japan, say, operation's structural improvement, development of new fishing areas and improvement of fishing methods and gears.

Here, motorization of fishing boats attracts the keenest attention.

Yamaha Sets Trend in Japan

In recent years, the number of non-powered boats all the time decreased by some 5.4% per year as outboard motors became more popularized. On the other hand, the number of powered boats continued to increase by 4.5% approx. yearly until they reached over 70% of all in 1970.

Formerly, row boats symbolized fishery in Japan, but now powered-boats are the mainstay of fishery in this country. Yamaha has been constantly strenuous to lead this overgrowing trend of motorization in Japan, by developing a line of lighter and tougher outboard motors ranging from 2hp to 15hp, as the largest maker in this field since 1960. Yamaha products featuring higher performance and easier handling plus less upkeep cost are winning higher appraisal among fishermen as well as among water sport enthusiasts.

Less labor, more incomes

Yamaha has brought on noteworthy motorization of coastal fishery and shallow-sea cultivation. It means less labor and more incomes. Fishermen enjoy quicker operation for larger catch. Here introduced are some examples of how Yamahas are used in Japan.

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Lamprey catching, Northeastern Japan

A Yamaha fisherman's boat equipped with the P-250 is engaged in lamprey catching with a fishing net.

Intervals of some 50 meters, are all caught. Quicker movement from one net to another is the key point of this operation.

Saurel and lobster catching, Central Japan

A net fishing is also very popular around here. Small fish which happen to come into nets fixed at

Clam catching, Southern Japan

Takes have increased to ¥1 million per head since Yamaha outboard motors joined the operation. Lower cultivation is also very popular around here.

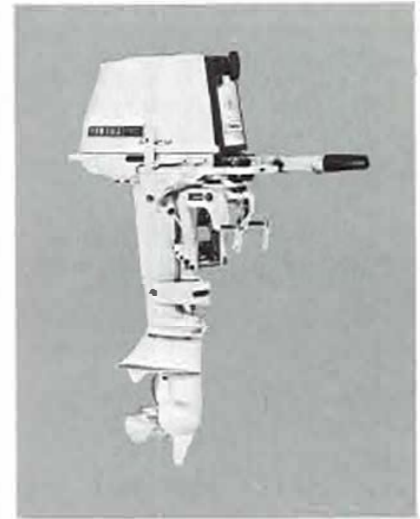
Money-saving Kerosene Outboard Motors

Yamaha's outboard motors have by leaps risen in output and sales backed up by rapidly increasing demands in fishing villages throughout Japan. Yamaha has a line of its unique kerosene models to minimize running cost. It is the fruit of Yamaha's painstaking efforts and top level technologies. The kerosene outboard motors get enlivened on gasoline, but can be changed over to kerosene for operational running.

With the leadership upheld in output and sales, Yamaha is constantly taking the initiative to help users enjoy Yamaha's merits to a maximum.

A recent "Yamaha Bumper Catch Caravan" is a good example.

A team of Yamaha engineering staff is going on a tour around fishing villages all over Japan to promote a Yamaha outboard school for proper technical advices, and to conduct safety inspections on outboard motors used by fishermen.



Yamaha's unique kerosene model P-250

FRP fisherman's boats

Along with continuous efforts on the development of outboard motors, Yamaha has successfully incorporated its excellent technologies in a line of FRP fisherman's boats, too, ranging from the 3m flat-bottom punt to the over 12m-fishing cruiser. Yamaha-made FRP boats are now fast taking the part of wooden boats which were the mainstay of fishery in Japan in the past. Here cited is the text of official report on the trend of Japanese coastal fishery as

follows:

"FRP fisherman's boats are now progressively becoming popular for coastal fishery and shallow-sea fishery in Japan. They are less in weight, simpler in maintenance and higher in seaworthiness than wooden ones. The popularization of FRP boats will be much faster at the time when hull shape and scale have been standardized so that they may meet particular needs of individual fishing purpose".



Constant bumper catch

Thus, the Yamaha FRP boat mounted with the Yamaha outboard motor is assuring fishermen of a bumper catch of fish around Japan at all seasons.

Yamaha is a real trendsetter of coastal fishery modernization to bring fishermen more incomes.



Yamaha service staff inspecting an outboard motor



Most of Yamaha motorcycle dealers deal in outboard motors.

Fred Deeley Expands Business - Canada

Canada is one of the most promising markets for Yamaha products such as motorcycles, snowmobiles, and outboard motors together with their parts and accessories.

Fred Deeley Limited in Vancouver has been active to promote sales in this part of the world as the Canada-wide distributor for Yamaha since 1966.

16,000 Motorcycles and 7,000 Snowmobiles

The company has a staff of 225 with 60 in the motorcycle division led by Mr. Trevor Deeley, son of Mr. Fred Deeley. The company has also 400 motorcycle dealers and 500 snowmobile dealers throughout the country.

Mr. T. Deeley anticipates sales of motorcycles at a level of 16,000, and snowmobiles at a level of 6,000 - 7,000 plus \$ one million in parts for the year 1971.

The popularity of motorcycles is definitely responsible for a noisy revolution in transportation and fun business. According to him, the company has already sold more units up to now this year than it did last year, and has bright prospects that a target of 16,000 will be surely attained.

Brisk Racing Activities

The name of Fred Deeley Ltd. is so famous in association with such world-renowned riders as Mike Duff, Yvon Du Hamel and other topsters who have raced Yamaha machines to score a lot of wins under the sponsorship of the company.

Also, Mr. T. Deeley himself is a skilled rider. In his younger days he was a member of the Harley Davidson racing team for 12 years. Now, he still rides for pleasure and transport purposes a Yamaha 175cc bike.

The company is sponsoring top racing motorcycles and five riders who compete in Canada and the United States. The Yamaha was the first motorcycle to lap the 2.5-mile Daytona circuit at a speed of 150 mph.

Recent Expansion to Eastern Canada

The company has recently opened the new division as an Eastern Canada division with a complete inventory of motorcycles and snow-



mobiles, parts and accessories, to replace the existing branch office in Ont. The new facility in Toronto provides 10,000 square feet of space.

The eastern parts inventory will grow to \$250,000 by the end of 1971.

Mr. Don Winans, an executive with 21-year

experience in the retail and wholesale auto industry, is taking charge of the expanding operations.

Impetus for this far-reaching expansion program came from rapidly increasing sales of Yamaha products throughout Canada.

Yamaha Attains Excellent Business

Survey recently made on the business achievements of the companies as listed by the Tokyo Stock Exchange as first class, reveals that Yamaha attained the best results in the Japanese 2-wheeler industry last year. The said survey was conducted by the Japan Keizai Press, leading journal concerned with economic affairs in Japan, and its financial analysis is always given the highest appraisal. The companies which are listed by the Tokyo Stock Exchange as first class, are all capitalized at over ¥1,000 million, and all

the leading companies in Japan come under this category.

As for export ratio, Yamaha came first in the Japanese auto. industry, to say nothing of the 2-wheeler industry, by registering 54.6% to total sales for the year 1970. Yamaha ranked 10th overall in the whole industry of Japan. As for asset per stock, Yamaha topped the table of auto. makers again with ¥273, ranking 24th overall. As for the ratio of self-owned capital, Yamaha was also eminent.

Ex-Champion P. Read Wins West German Round - '71 World Championship Road Race Series -

The West German GP, 2nd round of this year's World Championship Road Race Series took place attracting some 120,000 spectators to the ultra-fast Hockenheim circuit, on May 16.

Riding his fast Yamaha twin racer, ex-champion P. Read snatched a convincing win of the 250cc class race, smashing tough challenge from Spanish Derbi and East German MZ works machines.

In this race Yamaha riders monopolized all of major placings.

Results		250cc class	23 laps	96.68 miles	
1.	P. Read	Yamaha	1 h 0' 42" 4	95.94 mph	
2.	K. Huber	Yamaha			
3.	J. Dodds	Yamaha			
4.	T. Marsoveszky	Yamaha			
5.	J. Andersson	Yamaha			
Fastest lap		P. Read	2' 34" 4	98.35 mph	



Triple Champion J. D. Landrebe - New Zealand

Riding his immaculately prepared Yamaha 250cc and 350cc machines, 20-year old J.D. Landrebe swept all oppositions to win the three major championship races - the light-weight (up to 250cc), junior (up to 350cc) and senior (up to 500cc) grand prix races recently held at Ruapuna Park near Christchurch, New Zealand.

It was really a great performance by a rider who had only 3-year racing experience before. Only once before had this been accomplished in the history of New Zealand grand prix racing in 1969 when his late elder brother N. Landrebe had scored the hat trick riding the same Yamahas.

"The machines I used belonged to my late elder brother", remarked he at the conclusion of racing. "And I am now reaping the benefit of the work he did on those machines".



Yamaha highlight Malaysian GP

The Malaysian GP is annually organized by Malaysian Motor Sports Club and is admitted one of the most important sports events in the Far East as well as the Singapore GP. This year's GP was fought for 40 laps by various makes of machines such as Yamaha, Suzuki, Ducati, Bultaco, Norton, Aermachi, etc.

T. Discombe riding a Yamaha 350cc TR2B racer became the winner after a thrilling battle with a 500cc Suzuki.



YAMAHA Topics

SM Champions in Japan

As earlier reported by this journal, Yamaha riders monopolized all the rounds and all the races of the '71 Japan Snowmobile Championship Race Series. Here pictured is a title winning pair of Yamaha at the prizegiving ceremony held recently at the Tokyo Hilton Hotel. 300cc and over 401cc double champion N. Otsuki (right) and 400cc champion M. Aoki (left)



4-cylinder Yamaha

Here introduced is a 500cc 4-cylinder Yamaha built by a Yamaha fan in Maryland, America. A Yamaha 250cc YDS3 was used as a base. Work on the engine began with extensive remachining of the two center crankcase halves to accommodate the four-throw crankshaft. Transmission and clutch components were located in the left engine cavities. Two autolube pumps were located in the right cavity and were driven from the same shaft. Frame modifications include centering the engine by relocating some of the standard mounting bosses. Overall engine width was increased by 7.79 in., and the bike's estimated weight was 420 lb. Handling was excellent and acceleration was fantastic.



They are trail enthusiasts

Trail boom is steadily growing up, like road race enthusiasm, in Malaysia. Yamaha distributors are so active to promote trail demonstrations on big scale,

throughout this country. Pictured here is a party of young enthusiasts who have come from Singapore to participate in the demonstration held around Kuala Lumpur.



24-hour reliability test

Recently, a Yamaha 100cc model was put to a tough reliability and durability test by Siam Motors Co., Ltd., the sole distributor for Yamaha in Thailand. The Yamaha was ridden around the Hua Mark Velodrome for fully 24 hours with no stop. The main rider was Preeda Chullamonton, the most famous rider in Thailand. All who attended were surprised at the ease with which the Yamaha continued to run all the way. It was free from any faltering or overheating. Test scenes were filmed and will be shortly released as a commercial on local television.

"Yamaha S.M. is promising" say US journalists

A couple of American expert snowmobile journalists accompanied by Mr. Mel Callaway, National Sales Manager, Yamaha International Corporation went on tour around Yamaha industrial group in Shizuoka Prefecture, Japan for a four-day period, in order to grasp a real state of evergrowing Yamaha.

They were Mr. J.H. Charlton, publisher of "Snow Goer", and Mr. H. Fiola, editor and publisher of "Snow Sport". At press interview held at the Hamamatsu Grand Hotel on June 10, they talked about the trend of snowmobile industry as well as about their impression of Yamaha as follows: "Snowmobiles in Canada and the United States have grown enormously in popularity for the past ten years or so since the first production model was introduced in 1959.

For the first year of production for market, total output was only around 250 units, but sales boosted to about 500,000 units in 1970, by leaps and bounds. In Canada and the United States, approx. 1.7 million snowmobiles are used now for utility and leisure purposes. The market is expected to further expand in the future, and the number of makers in those areas amounts to some 100 which will compete hotly for larger market share toward the future.

Yamaha is one of the most popular brand now. Their upswing in sales for the past two years has been something marvellous. Now, we have understood the reason for it. Yamaha people are amazingly sensitive to a trend of market. They are always ready to meet any variation of market far away from their manufacturing plant. In addition,



From left to right, Mr. Callaway, Mr. Fiola and Mr. Charlton

Yamaha has a very efficient and highly productive setup to turn out quality products. Those factors will combine together to make Yamaha one of the five largest makers in the world within a few years."

Yamaha Rally in Thailand

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Siam Motors Co. recently organized a big motorcycle rally for the first time in Thailand, attracting some 100 entries. The rally was exactly a competition of timing over a course extending 200km around Bangkok. Each participating motorcycle had

one rider and another at the back to drive by turns in accordance with international rally rules. The rider who reached each check point at a certain or the closest time limited won the rally. Besides, he had to solve a quiz on Yamaha motorcycles at each check point,

and success or failure brought on bonus or demerit marks. P. Chullamonton won this rally and was awarded a Yamaha 500cc PS1. No accident at all, and they are planning to promote another rally in near future.



Less cost, bigger catch

Here introduced are Yamaha outboard motor P-125 and P-250 which are fitted to locally-manufactured wooden boats located at Dutch Bay, Trincomalee, Ceylon. The boats are equipped with outriggers when they are launched onto the water for fishing operation. Until Yamaha kerosene model P-125 was introduced, all the fishing operations had been restricted to sail power only, with consistent disadvantages of navigation to windward and their inability to engage in

trotting on calm days. Attempts had been made to use petrol running motors for trotting, but had had to be abandoned because of uneconomical running cost. Yamaha kerosene model P-125 has solved everything with running cost. Trotting normally continues from 7.30 AM to 5.00 PM without a break. Rough fuel costs are as follows:

Kerosene	\$ 0.92
Gasoline	\$ 4.10



TROUBLESHOOTING

Be a good doctor of motorcycle

Troubles with a motorcycle are varied, and you must investigate the causes of trouble systematically for correct repair. Otherwise, you will have to waste time and labor.

1. Grasp what is wrong with a motorcycle correctly

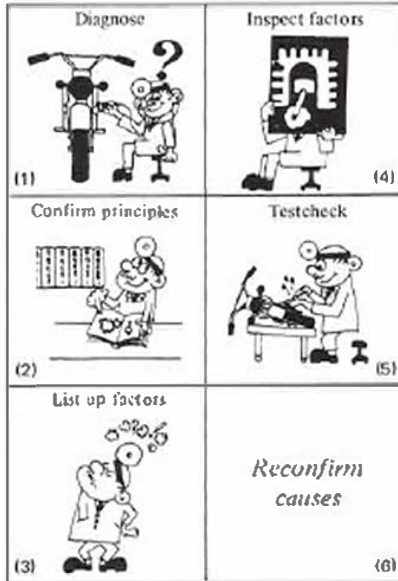
Even the best doctor can not write out a prescription without diagnose. Therefore, you have to closely examine what is wrong with a motorcycle.

2. Be familiar with functional principles

Unless you become familiarized with the functional principle of each component, neither troubleshooting nor repair can be performed smoothly. Read an operation manual carefully, or consult an expert mechanic for necessary advices.

3. List up trouble factors

Once you grasp what is wrong, and get



familiarized with functional principles, trouble factors more than one will come out of themselves.

4. Investigation of trouble factors

Closely investigate all of them. In order to hit the very cause as soon as possible, give testcheck priority to easier-checking or oftener-occurring factors.

5. Use gauges

Never rely on your mere perception but use gauges for correct test check.

6. Reconfirm causes

Never forget to check to see whether you have done it correctly, after a motorcycle is repaired and serviced. Thus, correct knowledge of motorcycle mechanism and ample experience of troubleshooting will make you a good motorcycle doctor.

Report from Australia

A story of three adventurous Yamaha trail riders has been filmed by Six Wheels North Pty. Ltd.

“Six Wheels North” completed

The film is an hour color works to introduce the story of three dauntless riders and their Yamaha trail machines which ventured to cover four thousand miles from the bottom to the top of Australia.

Their adventurous journey started in the damp coolness of southern Australia's winter. Wilson's Promontory, the starting point, was rugged, windswept and beautiful. They rode hard and fast all the way. There

were no easy stretches on their trip. No time to relax and coast along. They stayed off the main roads and travelled instead along the remote and little known back-ways of the Australian outback, which were more picturesque.

Even some of the roads which appeared on maps as main highways turned out to be bush tracks just like scramble courses. Their Yamaha Enduro 250 DT1 trail bikes kept on

running steadily through semi-desert and icy mountains.

They succeeded in covering 4,000 miles in 3 weeks, overcoming various hardships in succession.

The film was produced by Six Wheel North Pty. Ltd. in Victoria, Australia. The project was given overall help and cooperation by Mr. Bruce Johnstone, Yamaha's Melbourne distributor, Millege Bros Pty. Ltd.

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