



MICHIGAN
MACHINED-PITCH
PROPELLERS

*Are Accurately Designed, Tested and
Matched to the Specific Motors and
Hulls on Which They Are to Be Used -*

*For Outstanding Performance
in Racing or Pleasure Boating*

The KEY TO BETTER OUTBOARD PERFORMANCE

The contents of this booklet constitute a means whereby most every owner of an outboard outfit can determine whether he is obtaining maximum pleasure, performance and service from his unit. Due to the inexperience of many outboard owners, lack of really reliable information on properly "setting up" a unit, we have in the following pages gone to considerable length in attempting to be of assistance along these lines. Outboarding is a grand sport and we want to help everyone to get as much pleasure from his particular outfit as possible.

Obviously the propeller of an outboard or an inboard is of most critical importance and this is the reason why many manufacturers of outboard engines and inboard boats leave their propeller problems in the hands of propulsion experts — usually the Michigan Wheel Company.

WHAT MAKES A GOOD PROPELLER?

FIRST, a propeller must be accurate. Certainly a propeller that is not perfect in pitch, balance, machining, blade uniformity, indexing, etc., cannot operate without vibration and maximum efficiency. Michigan propellers are accurate in every detail. They are manufactured under our Machined-Pitch method of manufacture by machines especially designed for one purpose only — to make propellers. Space does not permit going into detail here, but on request literature will be sent descriptive of Michigan's M-P method of propeller manufacture. Supplementing our unequalled equipment we have 45 years of experience and an organization of skilled craftsmen and propulsion engineers whose abilities are directed solely to propellers.

SECONDLY, a propeller must be of correct size and design FOR THE BOAT, LOAD and SERVICE. In the following tables you will note we offer standard propellers for almost every motor; that is, they are similar to the original equipment in shape and dimensions. In many cases this propeller is entirely satis-

factory. Due to great variations in hulls and conditions, however, the standard propeller oftentimes is found not too good, or even entirely wrong for the job. That is why for the larger motors especially we offer a range of sizes and styles.

In recommending various propellers for certain engines with different hulls and loads, consideration has been given to the gear ratio of the lower unit, its contour, engine's power, RPM range, etc. May we emphasize, however, that the specific recommendations are not all theory! In fact, we maintain a test crew who operate 12 months of the year actually checking propellers and their results under all conditions, as described on pages 4 and 5.

THIRD, precise accuracy, good design and correct size are of little use if not supplemented with material that will not fail. For small motors we recommend aluminum propellers due to the weight factor. Here we have the best propeller aluminum obtainable. High in strength, non-corrosive and ductile enough not to bend from every little impact. For larger engines Michigan's "MICHALLOY" bronze is used. This is a metal of unusually high physical properties (75,000 lbs. tensile strength per sq. in.,) engineered specifically by ourselves for propellers. Its corrosion resistance in fresh and salt water and its ability to withstand flexing under high speed operation and resistance to shock make it the perfect propeller metal.

WARNING: Too often an owner will order from his dealer the highest pitch propeller listed, whether it be an Aqua-Jet or an Aqua-Master, in the hope he will go faster. The result can only be failure. Remember, too, that boats and engines vary greatly as to ability and performance and a poor combination never can be made to operate like a unit inherently correct.

Note: While we believe the accuracy of the contents of this catalog is incontestable, specific results cannot be guaranteed due to variations in boats, engine conditions, fuels, etc. As stated, the information on propellers is based on our experience and engineering information on stock engines and well designed boats. For special conditions we invite your inquiries in detail — or write for our Outboard Analysis Form.

9 CHECK POINTS FOR IMPROVED OUTBOARD PERFORMANCE

Naturally every owner of an outboard outfit does not expect or want competitive racing speeds. However, hardly any are adverse to getting better all around performance and the following facts are presented as an aid in generally bringing up performances for those outfits where complete satisfaction is not presently being derived.

The first thought that comes to many outboarders is that a propeller change may accomplish a miracle or be a cure-all. Though of prime importance, no propeller by itself can make an outfit, inherently incorrect in one or more details, perform in competition with outfits in which all factors are ideal.

Each owner interested in greatest possible performance should check every one of the following points. Each are vital. One or more bad features in your outfit can detract as much as 10 to 50% in boat speeds and all around performance.

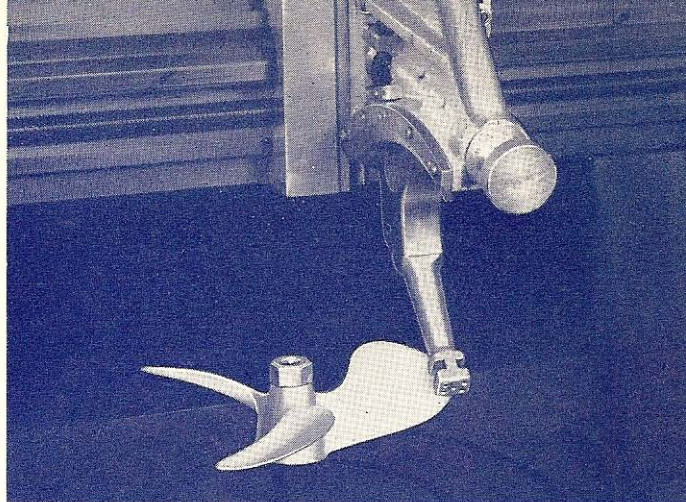
1. MOTOR TILT

Every outboard motor has an adjustment for tilt. When the motor is set on the transom with the lower unit too far forward, the boat will have a tendency to throw the bow too far into the water and over-plane the boat. This slows the boat up considerably although it will stabilize a wild boat, especially with the larger more powerful engines. For maximum racing speeds there is one point of proper motor angle and this is with the lower unit cocked back as far as possible. This can be briefly summed up as "trimming." However, no two hulls are alike and the exactly correct point can be determined only by trial and error. Motors tilted too far aft will cause propeller to cavitate.

2. TRANSOM HEIGHT

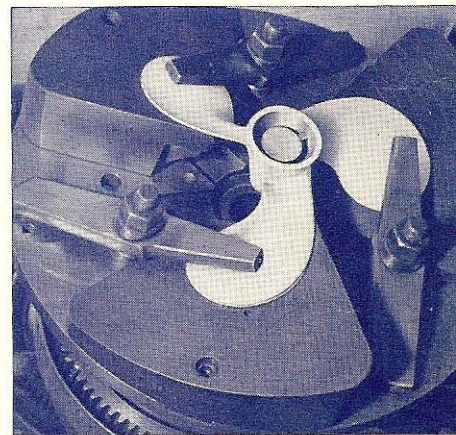
No single one of these 9 factors has more effect on general performance than the proper transom height. While most manufacturers of boats provide 15" transoms and most engines operate satisfactorily on these transoms, it is definitely true that owners of some boats will gain from $\frac{1}{4}$ to a mile or more in speed by blocking up or increasing the boat transom. For average family runabouts it is a good rule of thumb to run the anti-cavitation plate slightly below the bottom of the keel; or if there is no keel, below the bottom of the boat. Everyone interested in the last fraction of a mile for competitive racing, and this applies to hydroplanes and racing runabouts, should experiment to see how high he can run his outfit without encountering excessive cavitation when underway. It will be found harder to get up on top at the start with very highly mounted motors. There is no general rule that can be applied as motor lower units and boats vary in the ability to run high for this specialized racing

Continued on Page 3

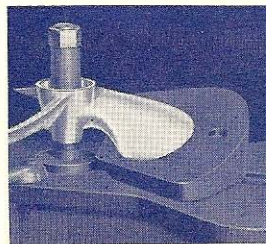


The Helical Planer, an exclusive development of Michigan Wheel Company, eliminates the human error element and carves the original patterns of Michigan Propellers and Pitch Blocks with unfailing precision and accuracy.

Boring a wheel on PITCH BLOCKS insures absolute accuracy. A perfect casting otherwise bored can be out of center and the blades badly out of track resulting in undue vibration, loss of power, etc.



Below is shown a propeller being checked on a PITCH BLOCK. PITCH BLOCKS have true screw surfaces carved by the helical planer and corresponding to the contours of the propellers with which they are used to check the accuracy of each and every propeller throughout the manufacturing process.



**NO OTHER
PROPELLERS
ARE MADE
THIS WAY**

CONTINUOUS TESTING TO INSURE MAXIMUM

When you buy a Michigan propeller, you may be sure that you are getting, not what some theorist hopes will give you more speed or better performance, but a wheel bound to give you what you want because it has proven its ability to do so under the most exacting tests that can be devised.

At one of the nearby Michigan lakes, and another in Tennessee, the winter location, the testing of Michigan propellers goes on the year around. At these proving grounds a whole fleet of boats including practically every type, size and kind of construction (plank, plywood, metal) used in outboard motoring is maintained. Here the propeller designs evolved by our engineering staff are thoroughly established or disproved under actual running conditions. Here every make and model of outboard motor is matched with the propeller that will enable it to develop the maximum efficiency under given conditions. These include boat size, design and load. Results are measured with minute accuracy with the

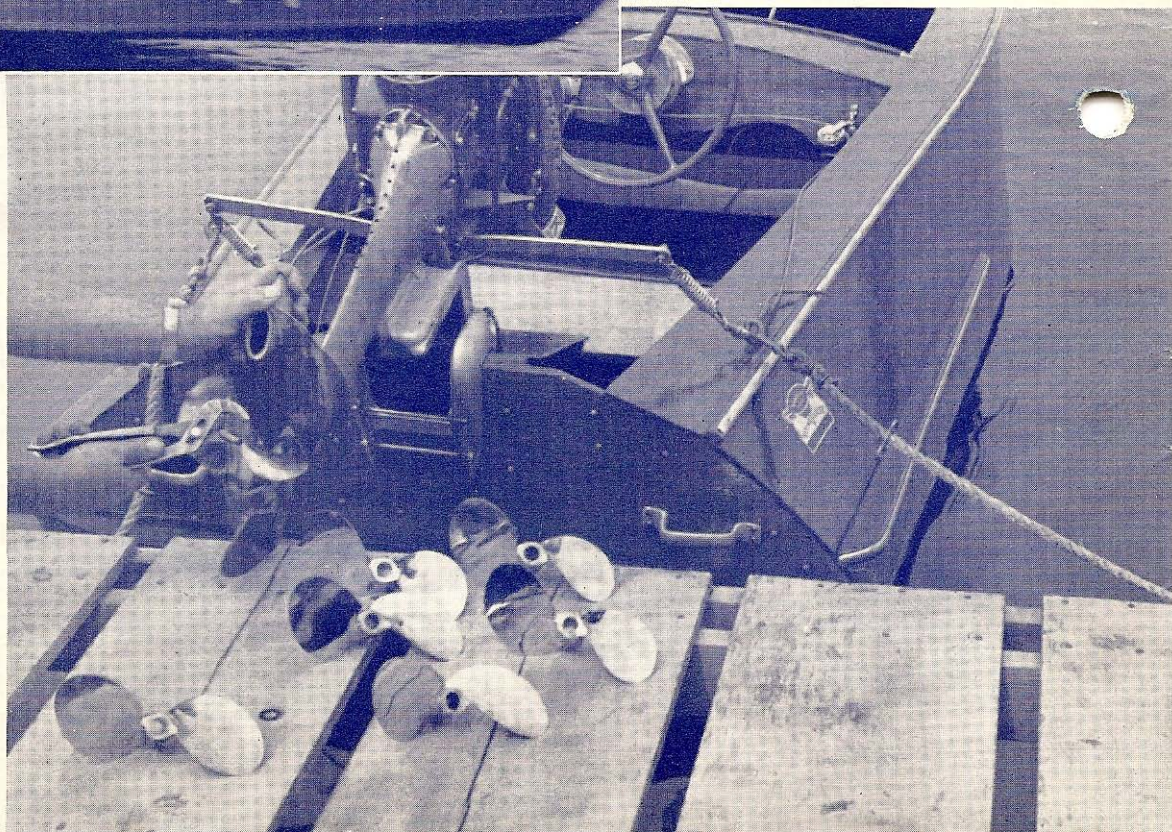
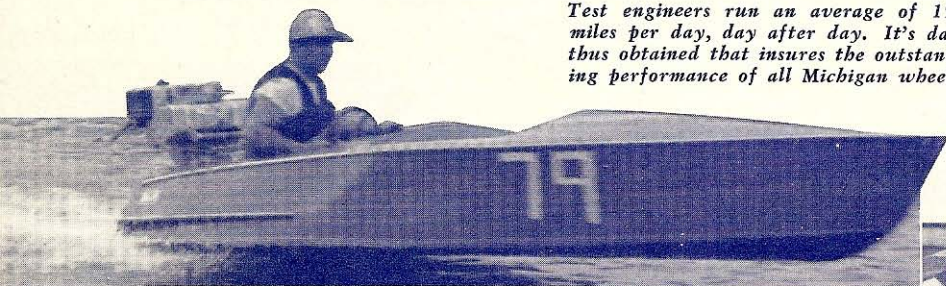
finest of scientific instruments and tests are truly exhaustive.

Each testing engineer runs an average of 150 miles per day, more than the equivalent of a marathon, and the testing goes on day after day, the year around. Testing is considered complete only when decidedly superior results have been obtained and both the engineering and field staffs are thoroughly satisfied that maximum performance has been obtained. Often this means very long periods of testing, as much as six weeks for a single propeller as was the case in the development of one of our new "Aqua-Jet" racing wheels for a certain motor.

The recommendations contained in the Propeller Selector Charts on pages 9 to 20 therefore, are founded on the soundest possible basis and can be relied upon to give you the ultimate in performance. Be sure, however, to read the "9 CHECK POINTS" pertaining to your outfit to insure getting the best possible results.

Test engineers run an average of 150 miles per day, day after day. It's data thus obtained that insures the outstanding performance of all Michigan wheels.

Seven propellers with variations so slight the average layman would be unable to detect them. All will be tested to determine the one that gives maximum effectiveness for the given motor, hull and load.

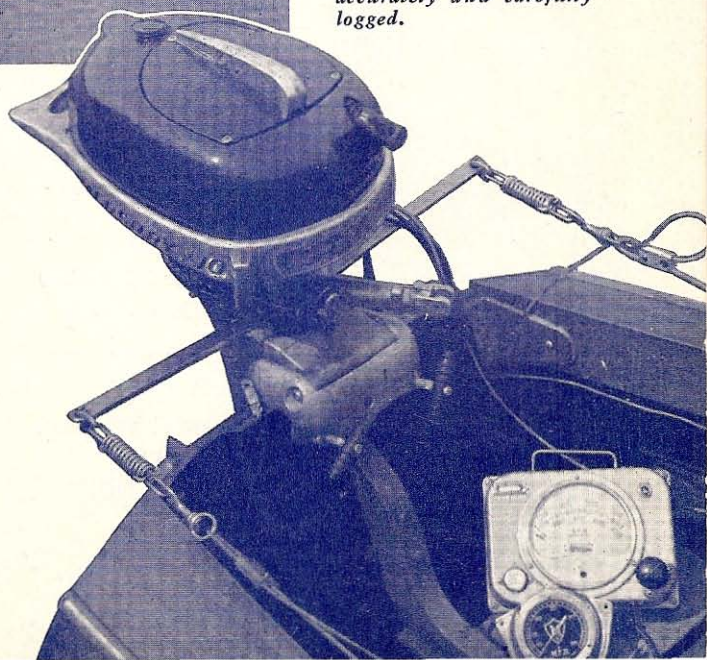
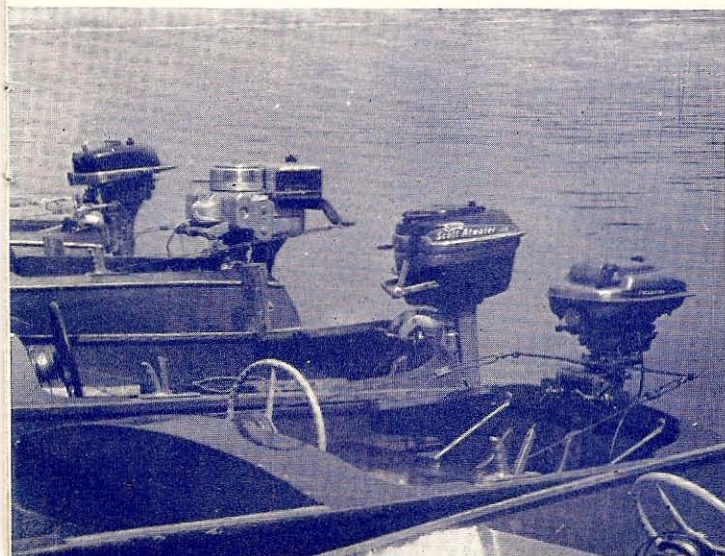


PERFORMANCE UNDER ALL CONDITIONS

Part of our testing fleet that includes every type of hull and motors of all makes and sizes.

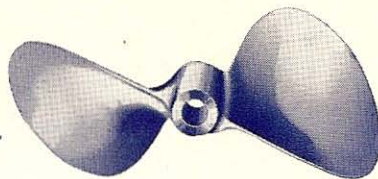


Performance of each propeller tested is measured accurately and carefully logged.



"AQUA-JET"

Some of the Models available



RACING TYPE PROPELLERS





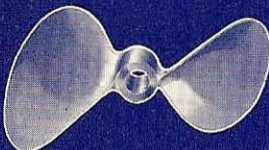
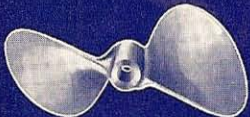


A TREMENDOUSLY SUCCESSFUL WHEEL FOR STOCK BOAT RACING

Michigan "AQUA-JET" propellers are super deluxe racing wheels, virtually custom built to fit the specific, individual motors on which they are to be used, yet priced to sell at practically the cost of a stock propeller. Their design is such that no cutting or rebuilding of the lower unit is necessary — a tremendously important feature, particularly to the driver who wishes to maintain his outfit for stock racing.

Built, like all Michigan propellers, it has tremendous thrust, yet maintains that silky smooth operation at high speeds so necessary to top performance.

The tremendous success of this wheel, which was originally brought out as a semi-custom job for a few of the 7½ HP and 10 HP motors led to the expansion of sizes by popular demand. It is now available for such motors as the Evinrude, Lightfour, Speeditwin, Speedifour and Big Four; Johnson "22", Mercury 7½ and 10 HP and Scott Atwater 7½ HP and, in fact, nearly all of the newer motors in the above sizes and larger. Some of the "AQUA-JET" models are shown at the left. All of them are listed under the make of motor with which they are available in the propeller selector listings on the following pages.

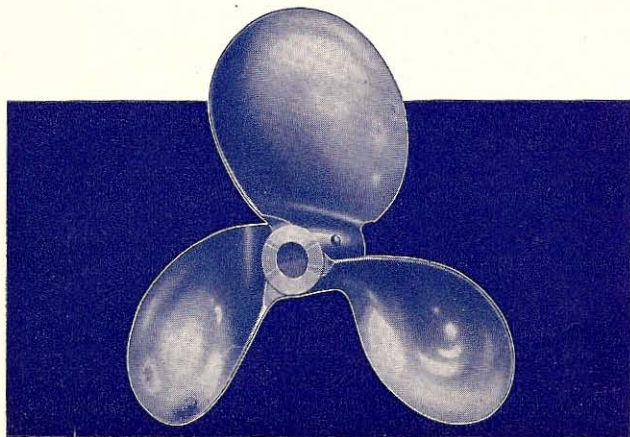
It should be definitely understood, however, that the "AQUA-JET" in no way displaces the "AQUA-MASTER" propellers described on the opposite page. The "AQUA-JET" is designed primarily for racing runabouts and step-bottom hydroplanes and for this type of application is **unequaled**. The "AQUA-MASTER" remains the ideal propeller for the average runabout, utility or family boat.

	MERCURY SUPER 10 AND HURRICANE AJ48 AJ49 AJ50
	MERCURY 25 H.P. AJ80 AJ83 AJ81 AJ84 AJ82 AJ85
	SCOTT-ATWATER 7½ H.P. AJ8
	CHAMPION HOT ROD AJ130 AJ131
	JOHNSON PO 22 H.P. AJ1195 AJ1194
	EVINRUDE SPEEDITWIN 22 H.P. AJ289 AJ323 AJ288
	EVINRUDE SPEEDIFOUR 33 H.P. AJ323 AJ324 AJ325
	JOHNSON QD 10 H.P. AJ200 AJ201

The "AQUA-MASTER"

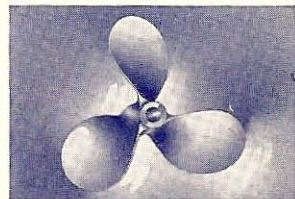
IDEAL PROPELLER FOR THE LARGER MOTORS IN USE ON THE AVERAGE RUNABOUT, UTILITY OR FAMILY BOAT!

A few years ago Michigan introduced the Outboard version of our highly popular inboard "AQUA-MASTER." It immediately became recognized as the most sensationally performing propeller ever offered for service motors. In the following pages many new "AQUA-MASTERS" will now be found listed, and the range has been expanded to include motors down to the 6 h.p. jobs of some makes. Any owner of a motor of this size using a well designed runabout or utility certainly owes it to himself to own one of these propellers. It will provide better boat speeds, smoother performance and more flexible operation under varying load conditions. Furthermore the "AQUA-MASTER" is more sturdy in design and construction. It tends to deflect or ward off drift and debris with less damage to blades than would be offered by the conventional propeller. Its usual shorter diameter and greater blade width permits its use closer to the surface, a real advantage as explained under "9 Check Points" (page 3).

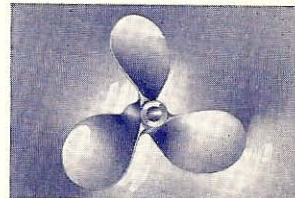


NOTES FROM THE TESTING ENGINEERS ON THE MORE NEWLY DEVELOPED "AQUA-MASTER" PROPELLERS:

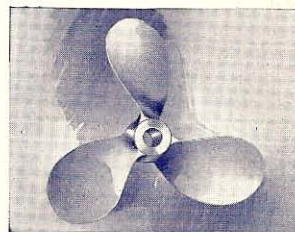
No. AM-300 "For small car tops, light aluminum boats, this wheel gave an additional mile or better than standard wheels with lower, safer RPM."



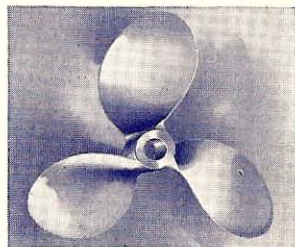
No. AM-270 "Got $\frac{3}{4}$ to $1\frac{1}{4}$ miles more than standard wheel. Will be well liked for racing in the small class."



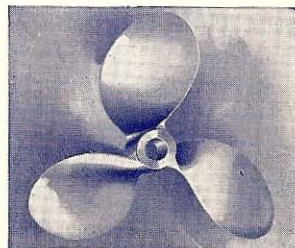
No. AM-260 "This wheel is really OK for twelve to fourteen foot runabouts carrying one to two persons."



No. AM-280 "Best all around performer in the really big motor class."



No. AM-320 "Real improvements in speeds, pick-up and all-round performance is obtained on hulls in the "heavy" classification."



9 CHECK POINTS FOR IMPROVED OUTBOARD PERFORMANCE

Continued from Page 3

service. It is readily apparent to everyone that a highly mounted motor will cause less drag or skin friction, give better shallow water operation, and safer operation on sharp banks, since the propeller will break loose and the boat automatically straighten itself. You will also reduce back pressure with the underwater exhaust close to the surface.

3. SPARK LEVER SETTING

All outfits definitely do not operate best with the spark lever fully advanced. In fact, more often they do not. Many drivers simply throw the lever way over when they want most speed, whereas if they will feel out the last inch or so and find the correct spark lever setting, they will find a point that will be best.

4. THE KEEL

The purpose of a keel is to brace or stiffen the bottom, offering protection to the bottom, and on faster boats to stabilize it on the turns. Unfortunately this also adds drag and provides a route for air bubbles to flow back and be picked up by the propeller, thus greatly effecting propeller performance. This is why on some of the faster boats, intended for racing, you will find the keel inside the boat. These jobs generally are run with a fin. Where a substantial keel is built on the bottom, the aft end should be faired from an eighth to a quarter inch at the transom on a taper to about 30" forward. Fortunately most boat builders today have recognized the importance of faired keels and are sending them from the factory this way, but there are still thousands of boats in use with keels causing propeller inefficiencies.

5. BOAT BOTTOMS

90% of all well designed runabouts are straight line bottom boats. These have been proven definitely the most efficient and fastest. Unfortunately, however, many of these boat bottoms are not perfectly true and have built-in, or developed through use, a hook or curve which normally appears just forward of the transom. Usually the tremendous pull of a big engine or a medium size engine has drawn the bottom out of true and it has taken a permanent set. Some flexible bottom boats may straighten themselves up when out of the water but under operation be running with the hook. This hook developed in the bottom has two very serious effects in the outfit's performance.

First, it often is the entire reason for galloping at high speed and difficult control on the turns.

Secondly, it slows the boat up. If you have determined that you have an untrue boat bottom it should be straightened up. This can be done by most anyone by adding one x six's and wedging, and permanently installing these bottom bracings. Time and again we have seen difficult hulls made into fine-running and faster boats by getting the aft 1/3 of the boat bottom into the condition that it should be, namely a straight line.

6. PASSENGER WEIGHT

The average outboard is most sensitive to weight distribution. Some in fact are so sensitive that with motors of medium power, it is only by throwing weights way forward that the boat can be gotten into a plane where it will run best. In others, weights must be shifted aft. Here again variations in design, power and type of set-up will all vary so much that individuals will have to try out their own outboards and determine the weight compensation required. An excellent example of proper and improper weight distribution is offered by the owner of a flat bottom rowboat who sits in the stern, way aft, with a 5 H.P. motor and chugs along at 6 miles an hour with the bow 3' in the air. Sitting in the middle seat driving with a long handled stick he finds that he is actually able to plane out at 12 to 15 miles per hour.

7. CAVITATION

Cavitation is often called the curse of outboarding. What is it? Briefly it simply is a condition where the propeller sucks air or motor gases and runs wild in the "pocket". Most cavitation is caused by the motor being tilted too far aft or too high on the transom. Other common causes of high slip or cavitation are extreme "lift" of boat on turns, a bent propeller, wrong propeller size, weeds on lower unit, etc.

8. CARBURETOR ADJUSTMENT

Though indirectly related to propellers this subject deserves special emphasis. Always adjust carburetor to the rich point. It is inadvisable to attempt final carburetor adjustment until the motor has run 100 yards or more wide open. The reason for this is that a two cycle engine will overflow the crank case every time you slow it down or start off, and it takes a 100 yards or more to clear the crankcase to the point where correct adjustment can be obtained. Our recommendation above of setting the carburetor to the rich point is contrary to general tendency, but doing so will result in better lubrication.

9. THE BOAT ITSELF

Present day manufacturers of outboard boats offer a huge range of hulls for the American outboard enthusiast to choose from. They range from various metals, plastics, solid woods and plywoods. Each has its merit. Some are intended as family pleasure boats, some as all around utility boats and some strictly as speed boats. Many of our inquiries here have to do with owners of inherently relatively slow-speed, nice family boats of good safe design who want to compete with the speed boys. While we sometimes can bring up speeds appreciably through propeller alteration or some other changes mentioned above, it certainly isn't in the cards for a 400 pound plank boat to compete with hulls designed for one purpose only, namely top speed, without thought to riding qualities or maximum stability.

MICHIGAN PROPELLER SELECTOR AND PRICE LIST

Prices Subject To Change Without Notice

ELTO

MOTOR	MODEL No.	YEAR	Part No.	Price	Dia. and Pitch	Metal	No. Blades	RECOMMENDATION
Ace.....	4145, 4205.....	1936-37	E22	\$ 3.00	7 x 6	AL	2	General purpose
	4256, 4301, 4329, 4351, 4352.....	1938-39-40-41	E27	3.00	7 x 6	AL	2	General purpose
Big Quad.....	800, 820.....	1931-32	E277	13.00	11 3/4 x 10	BR	3	Work boat or heavy passenger load
			AJ335	17.40	9 1/2 x 15	BR	2	AJ racing for light runabout
			AM60	13.20	10 1/2 x 12 1/2	BR	3	AM for heavier boats and passengers
			AM62	12.65	10 x 13	BR	3	AM for medium boats and light loads
Cub.....	4264.....	1939-40-41	E2	3.60	5 1/2 x 4 3/4	AL	2	General purpose
Fisherman.....	413, 4018, 4095.....	1932-33-34-35	E296	4.75	7 1/2 x 8	AL	2	General purpose
Fleetwin.....	4038.....	1934	E291	7.00	9 x 8	BR	2	General purpose
	4335, 4336.....	1939-40-41	EW40	9.00	9 x 8 1/4	BR	2	General purpose weedless
	For all Fleetwin.....	1932-41	E293	7.00	9 x 6	BR	3	Extra heavy with passengers
			E294	8.80	8 1/2 x 9 1/2	BR	2	Racing for light runabouts
			AM80	8.80	8 x 9	BR	3	AM for medium boats and medium light loads
			AM81	9.35	8 1/4 x 9	BR	3	AM for heavier boats with passengers
Foldlight.....	162, 404.....	1930-31	B10	4.50	8 1/2 x 8	AL	2	General purpose
Handitwin.....	4158, 4212, 4261.....	1936-37-38	E32	3.00	7 1/2 x 6	AL	2	General purpose
	4307, 4332, 4357, 4358	1939-40-41						
Jr. Quad.....	900.....	1931	E251	8.80	10 x 10	BR	3	General purpose
			E258	9.90	9 1/2 x 11 1/2	BR	2	Racing for light runabouts
Lightweight.....	90000, 309.....	1929-30	E242	3.80	8 3/4 x 8	AL	2	General purpose
	401, 411.....	1931-32						
Lightweight Special.....	444.....	1933	E296	4.75	7 1/2 x 8	AL	2	General purpose
	360.....	1931						
Lightwin.....	4020.....	1934	E512	6.50	8 3/4 x 8	AL	2	General purpose
			E196	4.75	7 1/2 x 8	AL	2	General purpose
			E198	6.00	7 1/4 x 9	BR	2	75 lb. class boats
	4313, 4314.....	1939-40-41	E199	5.50	8 1/4 x 6	AL	2	Rowboat
			AM120	8.00	7 1/2 x 6 1/2	BR	3	AM heavier boats 14' class
			AM121	8.00	7 1/2 x 7 1/2	BR	3	AM light planing boats with light load
Lightwin Imperial.....	4032.....	1934	E512	6.50	8 3/4 x 8	AL	2	General purpose
Lightfour Imperial.....	4044.....	1934	E512	6.50	8 3/4 x 8	AL	2	General purpose
Pal.....	4203, 4253, 4266.....	1937-38-39-40-41	E40	2.70	6 x 5	AL	2	General Purpose
Service A.....	424.....	1932-33	E291	7.00	9 x 8	BR	2	General purpose
			E293	7.00	9 x 6	BR	3	Extra heavy with passengers
			E294	8.80	8 1/2 x 9 1/2	BR	2	Racing for light runabouts
			AM80	8.80	8 x 9	BR	3	AM medium boats - medium and light loads
			AM81	9.35	8 1/4 x 9	BR	3	AM heavier boats with passengers
Senior Speedster.....	310.....	1930-31-32	E251	8.80	10 x 10	BR	3	General purpose
			E258	9.90	9 1/2 x 11 1/2	BR	2	Racing for light runabouts
Service Twin.....	4161, 4163, 4151, 4216, 4229.....	1936-37	E296	4.75	7 1/2 x 8	AL	2	General purpose
Speeditwin.....	6004, 6015, 6018, 6034 .788" shaft.....	1934-35-36-38	EW2	13.20	10 1/2 x 10 1/2	BR	3	General purpose weedless
			E261	9.90	11 x 11	BR	3	General purpose
			E263	9.90	11 x 9	BR	3	Work boat or heavy passenger load
			AJ290	17.40	9 1/2 x 12	BR	2	AJ racing for light runabouts
			AM50	12.65	10 x 10	BR	3	AM light runabout, light and medium load
			AM51	13.20	10 1/2 x 9 1/2	BR	3	AM larger runabout, medium and heavy loads

What's a vacation or fishing trip without the use of your motor — carry a spare propeller.

MICHIGAN PROPELLER SELECTOR AND PRICE LIST

Prices Subject To Change Without Notice

ELTO (Continued)

MOTOR	MODEL No.	YEAR	Part No.	Price	Dia. and Pitch	Metal	No. Blades	RECOMMENDATION
Speediquad and Senior Quad	7004, 7013	1934-35	E271 E277	\$ 9.90 13.00	11 x 13 11 3/4 x 10	BR BR	3 3	General purpose Work boat or heavy passenger load
	314, 700, 721, 732, .788" shaft	1930-33	AJ335	17.40	9 1/2 x 15	BR	2	AJ racing light for runabouts
AM60			13.20	10 1/2 x 12 1/2	BR	3	AM for heavier boats with passengers	
AM62			12.65	10 x 13	BR	3	AM medium boats and medium and light loads	
Sportfour	9004, 9013	1934-35	AJ345	12.00	8 3/4 x 10	BR	2	Racing for light runabouts
			E360	8.80	9 3/4 x 10	BR	3	General purpose
			E365	9.90	10 1/4 x 8	BR	3	Work boat or heavy passenger load
			AM41	10.45	8 3/4 x 10	BR	3	AM planing boats medium loads
			AM42 AM45	10.45 11.00	8 3/4 x 10 1/2 9 1/2 x 10	BR BR	3 3	AM 12' boats light loads AM heavier boats with passengers
Speedster, 12 H.P.	5101	1949-50	AJ23	12.00	8 3/4 x 10 1/2	BR	2	AJ speed wheel souped engine
			AJ22	12.00	8 3/4 x 9 1/2	BR	2	AJ speed wheel 12' class boats
			AJ20	12.00	8 3/4 x 10	BR	2	AJ speed wheel extra light runabouts
			AM240	9.90	8 3/4 x 10 1/2	BR	3	AM average runabout light loads
			AM241	9.90	8 3/4 x 10	BR	3	AM average runabout 2 passengers
			AM242	9.90	8 3/4 x 9	BR	3	AM heavier boats and passengers
Sportster, 5 H.P.	4432	1949-50	Y10	4.80	7 1/2 x 8	AL	2	General purpose
			AM120	8.00	7 1/2 x 6 1/2	BR	3	AM heavier boats 14' class
			AM121	8.00	7 1/2 x 7 1/2	BR	3	AM light planing boats, light loads
Super "A"	422, 456	1932-33	E291	7.00	9 x 8	BR	2	General purpose
			E293	7.00	9 x 6	BR	3	Extra heavy with passengers
			E294	8.80	8 1/2 x 9 1/2	BR	2	Racing for light runabouts
			AM80	8.80	8 x 9	BR	3	AM medium boats, medium and light loads
			AM81	9.35	8 1/4 x 9	BR	3	AM heavier boats with passengers
Super "C"	605, 624, 638, .788" shaft	1931-32-33	E261	9.90	11 x 11	BR	3	general purpose
			E263	9.90	11 x 9	BR	3	Work boat or heavy passenger load
			AJ290	17.40	9 1/2 x 12	BR	2	AJ racing for light runabouts
			AM50	12.65	10 x 10	BR	3	AM light runabout, light and medium loads
			AM51	13.20	10 1/2 x 9 1/2	BR	3	AM larger runabout, medium and heavy loads

EVINRUDE

Big Four	802, 814, .788" shaft	1931-32	E277	\$13.00	11 3/4 x 10	BR	3	Work boat or heavy passenger load
			AJ335	17.40	9 1/2 x 15	BR	2	AJ racing for light runabouts
			AM60	13.20	10 1/2 x 12 1/2	BR	3	AM for heavier boats with passengers
			AM62	12.65	10 x 13	BR	3	AM medium boats and medium light loads
			AJ326	17.40	9 1/2 x 14 1/2	BR	2	AJ racing runabouts, light loads
	8015, 1" shaft	1945-50	AJ325	17.40	9 1/2 x 14	BR	2	AJ racing runabouts, light loads
			AJ327	17.40	9 1/2 x 15	BR	2	AJ racing, souped engines
			AJ303	17.40	10 x 14	BR	2	AJ racing runabouts, light loads
			AM173	14.00	10 1/2 x 11	BR	3	AM heavy boats and loads
			AM174	13.20	10 x 12 1/2	BR	3	AM 14' class boats and passengers
Fastwin	H, 1H, 13H	1928-29	AM175	13.20	10 x 13 1/2	BR	3	AM medium boats, medium loads
			V821	7.00	10 x 12	AL	2	general purpose
			V823	9.90	10 x 10	BR	3	Runabout, medium and light loads
			V825	8.80	9 x 13 1/2	BR	2	Racing, light runabouts

No propeller will perform smoothly, efficiently if bent or thrown out of balance. Own a spare to use while damaged wheel is reconditioned.

MICHIGAN PROPELLER SELECTOR AND PRICE LIST

Prices Subject To Change Without Notice

EVINRUDE (Continued)

MOTOR	MODEL No.	YEAR	Part No.	Price	Dia. and Pitch	Metal	No. Blades	RECOMMENDATION	
Fastwin.....	4438.....	1950	E370	\$ 8.00	8 1/2 x 10	AL	3	General purpose AM medium boats, medium loads	
			AM330	9.90		BR	3		
			AM331	9.90		BR	3		AM heavier boats, with passengers
			AJ410	12.00		BR	2		AJ racing, runabouts, light loads
Fisherman.....	4016, 4093, 4227, 4267..... 4309.....	1934-35-37-38 1939	E296	4.75	7 1/2 x 8	AL	2	General purpose	
			E196	4.75	7 1/2 x 8	AL	2	General purpose	
			E198	6.00	7 1/4 x 9	BR	2	75 lb. class boats	
			E199	5.50	8 1/4 x 6	AL	2	Row boats	
			AM120	8.00	7 1/2 x 6 1/2	BR	3	AM heavier boats, 14' class	
			AM121	8.00	7 1/2 x 7 1/2	BR	3	AM light planing boats with light load	
Fleetwin.....	F, 1F, 4F..... 418, 450, 4034.....	1928-29 1932-33-34	V818	8.25	9 x 9	AL	2	General purpose	
			E291	7.00	9 x 8	BR	2	General purpose	
			E293	7.00	9 x 6	BR	3	Extra heavy with passengers	
			E294	8.80	8 1/2 x 9 1/2	BR	2	Racing for light runabouts	
			AM80	8.80	8 x 9	BR	3	AM medium boats with medium and light loads	
		4434.....	1950	AM81	9.35	8 1/4 x 9	BR	3	AM heavier boats with passengers
				E330	7.00	8 x 8	AL	2	General purpose
				AM340	8.00	7 3/4 x 7	BR	3	AM medium boats, medium loads
				AM341	8.00	7 3/4 x 6	BR	3	AM heavier boats, with passengers
				AJ420	9.90	BR	2	AJ racing, runabouts, light loads
Foldlight.....	162, 403.....	1930-31	B10	4.50	8 1/2 x 8	AL	2	General purpose	
Light Four.....	4231, 4271, 4315, 4316, 4317, 4322, 4323, 4324, 4375, 4377, 4389, 4111, 4178.....	1935-50	E342	6.00	8 3/4 x 9	AL	2	General purpose	
			AJ349	12.00	8 1/2 x 9 1/2	BR	2	AJ speed wheel, 12' class boats	
			AJ350	12.00	8 1/2 x 10	BR	2	AJ speed wheel, extra light runabouts	
		AM72	7.70	9 x 6 1/2	AL	2	14'-16' boats with heavy loads		
			AM73	8.70	8 x 9	BR	3	AM light runabout, light load	
			AM73	8.70	8 x 8 1/2	BR	3	AM runabout, medium load	
Imperial Light Four.....	4042.....	1934	E512	6.50	8 3/4 x 8	AL	2	General purpose	
Lightwin.....	402, 407..... 442, 4020.....	1931-32 1933-34	E242	3.80	8 3/4 x 8	AL	2	General purpose	
			E296	4.75	7 1/2 x 8	AL	2	General purpose	
Mate.....	4263.....	1939-40-41	E2	3.60	5 1/2 x 4 3/4	AL	2	General purpose	
Ranger.....	4252, 4265, 4334, 4406, 4407.....	1938-47	E40	2.70	6 x 5	AL	2	General purpose	
Scout.....	4201.....	1937	E40	2.70	6 x 5	AL	2	General purpose	
Speedifour.....	704, 715..... 728, 7022, 7026, 7031, (Serial No. under 3000), 7032, 7033, .788" shaft.....	1931-32	V861	9.90	11 x 13	BR	3	General purpose	
			E271	9.90	11 x 13	BR	3	General purpose	
			E277	13.00	11 3/4 x 10	BR	3	Work boat or heavy passenger load	
			AJ332	17.40	9 1/2 x 13	BR	2	AJ racing for light runabouts	
			AJ333	17.40	9 1/2 x 13 1/2	BR	2	AJ racing for light runabouts	
	1932-41	AJ334	17.40	9 1/2 x 14	BR	2	AJ racing, souped engines		
		AM60	13.20	10 1/2 x 12 1/2	BR	3	AM heavier boats with passengers		
		AM62	12.65	10 x 13	BR	3	AM medium boats and medium and light loads		
		EW6	13.20	10 1/2 x 13	BR	3	Model 7026, 7031, 7032, general purpose weedless		
		7031, Serial 3001 up, 1" shaft.....	1946-50	EW20	13.20	10 1/2 x 12 1/2	BR	3	General purpose weedless
	AJ323			17.40	9 1/2 x 13	BR	2	AJ racing runabouts, light loads	
	AJ324			17.40	9 1/2 x 13 1/2	BR	2	AJ racing runabouts, light loads	
	AJ325			17.40	9 1/2 x 14	BR	2	AJ racing, souped engines	
	AJ301			17.40	10 x 13	BR	2	AJ racing runabouts, light loads	
	AM173	14.00	10 1/2 x 11	BR	3	AM heavy boats and loads			
AM174		13.20	10 x 12 1/2	BR	3	AM 14' class boats and passengers			
AM175		13.20	10 x 13 1/2	BR	3	AM medium boats, medium loads			

Carry a spare propeller to slip on when a damaged propeller would otherwise spoil your boating pleasure.

MICHIGAN PROPELLER SELECTOR AND PRICE LIST

Prices Subject To Change Without Notice

EVINRUDE (Continued)

MOTOR	MODEL No.	YEAR	Part No.	Price	Dia. and Pitch	Metal	No. Blades	RECOMMENDATION
Speeditwin.....	U1, U5.....	1928	V831	\$ 9.25	10 x 13	AL	3	General purpose
Speeditwin.....	1U, 15U, 143, 156, 167.....	1929-30-31	V841 V849 AM130	8.80 11.00 12.65	10 x 13 9 1/2 x 14 10 x 11	AL BR BR	3 2 3	General purpose Racing for light runabouts AM light runabouts, light and medium loads
	601, 618.....	1931-32	AM131 AM140 AM141	12.65 12.65 12.65	10 x 10 1/2 10 x 10 10 x 10 1/2	BR BR BR	3 3 3	AM larger runabouts, medium and heavy loads AM larger runabouts, medium and heavy loads AM light runabouts, light and medium loads
	634, 6000, 6011, 6039, 6041 to No. 5000, .788" shaft.....	1933-34-35	E255 E256 E261 E263	13.20 13.20 9.90 9.90	10 x 11 10 x 10 11 x 11 11 x 9	BR BR BR BR	2 2 3 3	Speedwheel, 12' class runabout Speedwheel medium runabouts, medium loads General purpose Work boat or heavy passenger load
	6039-6041, Serial No. over 5000, 1" shaft.....	1946-50	AM50 AM51 AJ290 EW2 EW10 E285 AM161 AM162 AM163 AJ288 AJ289 AJ323 E286	12.65 13.20 17.40 13.20 13.20 13.20 13.20 13.20 17.40 17.40 17.40 13.20	10 x 10 10 1/2 x 9 1/2 9 1/2 x 12 10 1/2 x 10 1/2 10 1/2 x 10 1/2 10 x 11 10 1/2 x 9 1/2 9 3/4 x 11 9 3/4 x 10 9 1/2 x 12 9 1/2 x 12 1/2 9 1/2 x 13 10 x 10	BR BR BR BR BR BR BR BR BR BR BR BR BR	3 3 3 3 3 2 2 2 2 2 2 2	AM light runabout, light and medium loads AM larger runabout, medium and heavy loads AJ speedwheel, souped-up motor General purpose weedless for 6039 to 6041 General purpose weedless Speedwheel, medium boats, light loads AM heavy boats and loads AM medium boats, light loads AM medium boats, heavier loads AJ racing, light loads AJ racing, light loads AJ racing, souped engines Speedwheel, medium boats and loads
Sportfour.....	912, 9200, 9000.....	1932-41	E304	8.80	10 x 10	BR	3	General purpose, models 1932-34
	9008, 9015, 9022.....		E360	8.80	9 3/4 x 10	BR	3	General purpose, models 1935-37
	9026, 9031, 9035.....		EW7	11.00	9 3/4 x 10	BR	3	General purpose, weedless models 1938-41
	For all Sportfour.....	1932-41	AJ345 E363 E365 AM41 AM42 AM45	12.00 8.80 9.90 10.45 10.45 11.00	8 3/4 x 10 8 3/4 x 12 10 1/4 x 8 8 3/4 x 10 8 3/4 x 10 1/2 9 1/2 x 10	BR BR BR BR BR BR	2 2 3 3 3 3	Racing, light runabouts Racing for hydroplanes Work boat or heavy passenger load AM planing boats, medium loads AM 12' boats, light loads AM heavier boats with passengers
Sport Single.....	432, 4000, 4002.....	1933-34	E237	3.80	7 1/2 x 6	AL	2	General purpose
Sportsman.....	4091.....	1935	E22	3.00	7 x 6	AL	2	General purpose
	4146, 4207.....	1936-37	E27	3.00	7 x 6	AL	2	General purpose
	4285, 4296, 4346, 4364, 4365, 4366, 4367, 4416.....	1938-47	E4	3.60	7 x 6	AL	2	General purpose
Sportwin N-NS.....	1500-10000.....	1923-25	V128	4.00	8 1/2 x 6	AL	2	General purpose
	10500-14750.....	1926-27						
	183.....	1931						
	409, 476.....	1932-33	E296	4.75	7 1/2 x 8	AL	2	General purpose
	4156, 4209.....	1936-37	E32	3.00	7 1/2 x 6	AL	2	General purpose
	4287, 4303, 4353, 4368.....	1938-47	E8	3.60	7 1/2 x 6	AL	2	General purpose
	4369, 4371, 4372, 4421.....		E10	4.40	7 1/2 x 5 1/2	AL	3	Rowboat
Sturditwin.....	420.....	1932-33	E291 E293 E294 AM50	7.00 7.00 8.80 8.80	9 x 8 9 x 6 8 1/2 x 9 1/2 8 x 9	BR BR BR BR	2 3 2 3	General purpose Extra heavy with passengers Racing for light runabouts AM medium boats with medium and light loads

Propeller damage won't lay up your boat if you own a spare propeller.

MICHIGAN PROPELLER SELECTOR AND PRICE LIST

Prices Subject To Change Without Notice

EVINRUDE (Continued)

MOTOR	MODEL No.	YEAR	Part No.	Price	Dia. and Pitch	Metal	No. Blades	RECOMMENDATION
Sturditwin	420	1932-33	AM81	\$ 9.35	8¼ x 9	BR	3	AM heavier boats with passengers
Weedless Fisherman	4092, 4152, 4269, 4312	1935-39	E313	4.75	7½ x 8	AL	2	General purpose
Weedless Sportsman	4418	1947-50	EW30	3.30	6⅞ x 5½	AL	2	General purpose
Weedless Sportwin	4422		EW32	4.50	6⅞ x 5	AL	3	Rowboat
Zephyr	4359, 4361, 4362, 4363, 4378, 4379, 4381, 4382, 4402, 4403, 4404, 4405	1940-50	E196	4.75	7½ x 8	AL	2	General purpose
			E198	6.00	7¼ x 9	BR	2	75 lb. class boats
			E199	5.50	8¼ x 6	AL	2	Rowboat
			AM120	8.00	7½ x 6½	BR	3	AM heavier boats 14' class
			AM121	8.00	7½ x 7½	BR	3	AM light planing boats with light load

JOHNSON

A Lightwin, BN Lightwin			J110	\$ 6.00	8 x 7	AL	2	General purpose
			M26	4.75	8 x 8	AL	2	75 lb. class boats, light load
			M27	6.50	8¼ x 6	BR	3	Best all around wheel
A25-AB25			J110	6.00	8 x 7	AL	2	General purpose
			J112	7.50	8⅝ x 6½	AL	2	General purpose
A35, 45			J114	7.50	9⅞ x 7.7	AL	3	General purpose
A50, 65, 70, 75, 80, AA37			J140	8.10	9⅞ x 6	AL	3	General purpose
			J141	8.80	9⅞ x 7	AL	2	Best all around wheel and weedless
AT39, 10			J14	4.50	8 x 7½	AL	2	General purpose
			J17	6.50	8 x 6	AL	3	Best all around wheel and weedless
			J18	5.50	8 x 7½	AL	2	Fast wheel, light boats
DS 37, 38			J10	3.60	8 x 4¾	AL	2	General purpose
DT 37, 38, 39, 10			J14	4.50	8 x 7½	AL	2	General purpose
			J17	6.50	8 x 6	AL	3	Best all around wheel and weedless
			J18	5.50	8 x 7½	AL	2	Fast wheel, light boats
F70			J80	6.00	8¼ x 6	AL	2	General purpose
F75			J84	6.00	8 x 9	AL	2	General purpose
HA39, 10-HD39, 10-HS39, 10			J30	2.40	6⅝ x 5¼	AL	2	General purpose
HA15-HD15-HS15			J40	2.40	6⅝ x 5¼	AL	2	General purpose
HD20-22-25-HS20 and 1950			J52	2.40	6⅝ x 5¼	AL	2	General purpose
J25, 65			J90	5.10	7⅝ x 5⅞	AL	2	General purpose
J70			J94	6.00	7⅝ x 5⅞	AL	2	General purpose
J75			J96	5.10	8 x 8	AL	2	General purpose
J80			J86	6.00	8 x 6¼	AL	2	General purpose
J85			J118	12.00	10 x 10	AL	3	General purpose
K35			J121	13.20	10 x 8	BR	3	Larger boats and passengers
K40, 45			J122	12.00	10¼ x 13.02	AL	3	General purpose
			J125	13.20	10¼ x 11	BR	3	Larger boats and passengers
			J1222	9.90	9 x 15	BR	2	Racing for light runabouts
K50, 65, 70, 75, 80			J144	9.90	9½ x 7¾	AL	3	Larger boats and passengers
			J149	9.90	9 x 11	BR	2	75 lb. class light loads
			J182	9.90	9½ x 9	AL	3	General purpose
			AM100	11.00	9½ x 8½	BR	3	AM runabouts with light load
			AM101	11.00	9½ x 8	BR	3	AM heavier boats with passengers
KA37, 38, 39, 10, KD15, KS15			J21	8.80	9¾ x 7¼	AL	3	Work boat or heavy passenger load
			J22	12.00	9¾ x 7¼	BR	3	Work boat or heavy passenger load
			J23	9.90	9½ x 9	BR	3	General purpose
			J24	9.90	9 x 11	BR	2	Speed wheel, 100 lb. class boats, light load
			AM20	11.00	9½ x 8½	BR	3	AM heavier boats with passengers
			AM21	11.00	9½ x 9	BR	3	AM runabout with light loads
LS37, 38, LT37, 38, 39, 10			JW27	12.00	9½ x 10	BR	2	Weedless general purpose
			J10	3.60	8 x 4¾	AL	2	General purpose
			J14	4.50	8 x 7½	AL	2	General purpose
			J17	6.50	8 x 6	AL	3	Best all around wheel and weedless
			J18	5.50	8 x 7½	AL	2	Fast wheel, light boats

Own a spare propeller to use while the original is reconditioned.

MICHIGAN PROPELLER SELECTOR AND PRICE LIST

Prices Subject To Change Without Notice

JOHNSON (Continued)

MOTOR	MODEL No.	YEAR	Part No.	Price	Dia. and Pitch	Metal	No. Blades	RECOMMENDATION			
MD15, 20, Shock also, MS15, 20, MD38, 39, MS38, 39, OA55, 60, OA65, OK 55, 60, P30, 35, 40, 45	.....	.....	J45	\$ 2.40	6½ x 4½	AL	2	General purpose	
			J5	2.40	6½ x 3¼	AL	2	General purpose			
			JA1	7.50	9½ x 8	AL	2	General purpose			
			JA6	8.10	8½ x 7½	AL	3	General purpose			
			JK1	7.50	10¼ x 13	AL	2	General purpose			
			J126	12.00	10¼ x 12½	AL	3	General purpose			
			J128	9.90	10 x 12½	BR	2	Fast wheel, light boats			
			J162	12.00	10¼ x 10½	BR	3	Work boat or heavy passenger load			
			P50, 65, 70, 75, 80, PO37, 38, 39, 10, 15, PO1948, 49, 50	J174	16.50	12 x 13	BR	3	General purpose models before 1948
						J176	16.50	12 x 10	BR	3	Work boat or heavy passenger load
						J178	8.10	10¾ x 12½	AL	3	General purpose for PO1948-50
						AM30	13.50	10½ x 12½	BR	3	AM heavier boats with passengers
						AM33	13.50	9¾ x 14	BR	3	AM fast wheel, light boats and loads
AM34	13.50	9¾ x 13				BR	3	AM heavier boats, medium loads			
AJ1194	17.40	10 x 13				BR	2	AJ racing for light runabouts			
QD.....	1949-50	.....	AJ1195	17.40	10 x 14	BR	2	AJ racing, souped engines		
			AJ200	12.00	8½ x 10	BR	2	AJ racing for light runabouts			
			AJ201	12.00	8½ x 10½	BR	2	AJ racing for light runabouts			
			AM260	11.00	8½ x 10	BR	3	AM fast wheel, light boats and loads			
			AM261	11.00	8½ x 9½	BR	3	AM heavier boats, medium loads			
			S45, 65, 70, SA, SE..	J151	7.50	10 x 11	BR	2	Two blade, general purpose
						J154	12.00	10 x 10	BR	3	General purpose
AJ400	12.00	9 x 12½				BR	2	AJ racing, light runabouts			
AM110	11.00	9½ x 9½				BR	3	AM runabout with light loads			
AM111	11.00	9½ x 9				BR	3	AM heavier boats with passengers			
SD10-15.....	Thru 1950	.....	J273	12.00	10 x 12	BR	3	Heavier boats, medium load		
			J277	12.00	10 x 13	BR	3	General purpose			
			J270	7.50	10 x 10	AL	3	Work boats or heavy passenger loads			
			J272	12.00	10 x 10	BR	3	Work boats or heavy passenger loads, bronze			
			J275	9.90	10 x 12	BR	2	Racing light and medium runabouts			
			AM220	11.00	9½ x 11	BR	3	AM fast wheel, light boats and loads			
			AM221	11.00	9½ x 10½	BR	3	AM heavier boats, medium loads			
TD15, 20, TS15.....	.....	.....	J2	5.00	8 x 7½	BR	2	General purpose	
			J7	7.00	8 x 8½	BR	2	75 lb. class, light loads			
			AM90	8.00	7¾ x 6½	BR	3	AM heavier boats, medium loads			
			AM91	8.00	7¾ x 7	BR	3	AM fast wheel, light boats and loads			
V45, 65, 70, VA, VE50.....	.....	.....	J174	16.50	12 x 13	BR	3	General purpose	
			J176	16.50	12 x 10	BR	3	Work boat or heavy passenger load			
			J1708	13.00	10½ x 16	BR	2	Hydroplane racing			
			J1709	13.00	10½ x 17½	BR	2	Hydroplane racing			
			AM30	13.50	10½ x 12½	BR	3	AM heavier boats with passengers			
			AM33	13.50	9¾ x 14	BR	3	AM fast wheel, light boats and loads			
			AM34	13.50	9¾ x 13	BR	3	AM heavier boats, medium loads			
100, 110.....	.....	.....	J64	3.00	7¼ x 4½	AL	2	General purpose	
			J74	3.30	7½ x 5½	AL	3	General purpose			
			J76	4.50	7½ x 5½	AL	3	General purpose, weedless			
			J86	6.00	8 x 6¼	AL	2	General purpose			
300.....	.....	.....	J8	3.00	8 x 7¼	AL	2	General purpose	
			AM92	8.00	7¾ x 6½	BR	3	AM heavier boats, medium loads			
			AM93	8.00	7¾ x 7	BR	3	AM fast wheel, light boats and loads			
TN, with Neutral, forward.....	.....	1950	.....	.....	.....	.....	.....

What's a vacation or fishing trip without the use of your motor — carry a spare propeller.

MICHIGAN PROPELLER SELECTOR AND PRICE LIST

Prices Subject To Change Without Notice

CHAMPION

MOTOR	MODEL No.	YEAR	Part No.	Price	Dia. and Pitch	Metal	No. Blades	RECOMMENDATION
Standard Single.....	A.....	1935	P44 P45	\$3.30 4.80	7½ x 6½ 7½ x 6½	AL BR	2 2	General purpose General purpose, bronze
	1B.....	1936						
	S1C.....	1937						
	S1D.....	1938						
Lite Twin.....	2B.....	1936	P47	3.80	7½ x 5½	AL	3	General purpose
	S2C.....	1937						
	S2D.....	1938						
Red Flash.....	R1C.....	1937	P48	3.80	7¾ x 6	AL	3	General purpose
DeLuxe Single.....	S1C.....	1937						
	D1D.....	1938						
DeLuxe Lite Twin.....	D2C.....	1937	P50	4.40	8¼ x 6	AL	3	General purpose
DeLuxe Lite Twin up to Model D2D3000.....	D2D.....	1938						
Standard Single.....	S1E.....	1939						
DeLuxe Single.....	D1E.....	1939	P51 P52	3.30 4.80	7½ x 6½ 7½ x 6½	AL BR	2 2	General purpose General purpose, bronze
Standard Single (Kingfisher).....	S1F.....	1940						
Standard Lite Twin (Fish Hawk).....	S2F.....	1940						
DeLuxe Single Blue Streak.....	B1F.....	1940						
Standard Single (Kingfisher).....	S1G.....	1941	P60	4.40	9 x 6	AL	3	General purpose
DeLuxe Single (Challenger).....	D1G.....	1941						
Single (Ensign).....	M1G.....	1941						
Super Single.....	1H.....	1942						
Senior Twin.....	3B.....	1936	P62	6.00	8 x 9	AL	2	75 lb. class, light loads
DeLuxe Senior Twin.....	D3D.....	1938-39						
Lite Twin (Admiral).....	M2G.....	1941	P70 P73	5.50 6.60	8¼ x 7 8 x 8½	AL AL	3 2	General purpose 75 lb. class, light loads
DeLuxe Lite Twin (Playboy).....	D2F.....	1940						
Standard Lite Twin (Viking).....	S2G.....	1941	P80	6.00	8½ x 7	AL	2	General purpose
DeLuxe Senior Twin.....	3G.....	1941						
Twin (Electra).....	3H.....	1942						
DeLuxe Lite Twin from 152D3000 up.....		1938						
Standard Single, Model 400.....	S4G.....	1941	P91 P93	4.40 6.00	7½ x 6½ 7½ x 6½	AL BR	3 3	General purpose General purpose, bronze
DeLuxe Single, Model 400.....	D4G.....	1941						
DeLuxe Lite Twin.....	D2D.....	1939	P90	5.10	8 x 5½	AL	2	General purpose Rowboats and heavier loads, weedless
Single (Commodore).....	M4G.....	1941						
DeLuxe Challenger Single.....	D1F.....	1940						
Standard Single.....	1J and 1L.....	1946-50						
DeLuxe Single.....	4.2 H.P., 2J and 2K	1946-50	P94	6.00	8 x 4½	AL	3	

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MICHIGAN PROPELLER SELECTOR AND PRICE LIST

Prices Subject To Change Without Notice

CHAMPION (Continued)

MOTOR	MODEL No.	YEAR	Part No.	Price	Dia. and Pitch	Metal	No. Blades	RECOMMENDATION
DeLuxe Twin.....	7.9 H.P., 4K.....	1948-50	P120	\$ 6.00	8 x 10	AL	2	General purpose General purpose, bronze AJ racing, light runabouts AM fast wheel, light boats and loads AM heavier boats, medium loads
			P122	7.50	8 x 10	BR	2	
			AJ125	12.00	8 x 9 1/2	BR	2	
			AM230	8.10	8 1/4 x 9	BR	3	
			AM231	8.10	8 1/4 x 8 1/2	BR	3	
Hot Rod.....	4KS and 4LS.....	1949-50	AJ130	12.00	8 1/8 x 10	BR	2	AJ racing, light runabouts AJ racing, souped up
			AJ131	12.00	8 1/8 x 11	BR	2	

MUNCIE, NEPTUNE, SEAGULL, GAMBLE

Jr. Single, 1.2 and 1.5 H.P.....	1A38, 1A39, 10A1, 11A1, 11B1, 15A1, 15B1, 17A1, 17B1.....	1938-47	E40	\$ 2.70	6 x 5	AL	2	General purpose
Single, 2 and 2.5 H.P.	0B1, 0B11, 0B12, 2A38, 2A39, 10A2, 11A2, 11AA2, 11B2, 15B2, 17A2.....	1933-41	M10	3.30	7 5/8 x 5 1/8	AL	2	General purpose General purpose, bronze Rowboats and loads
			M11	6.00	7 5/8 x 5 1/8	BR	2	
			M12	3.80	8 1/2 x 4	AL	2	
2.5 H.P.....	0B2.....	1930-31	M30	3.30	9 x 9	AL	2	General purpose
3-4-5 H.P.....	0B3, 0B4, 0B5.....	1931-32	M34	3.50	9 x 9	AL	2	General purpose
Jr. Twin.....	0B31, 0B32, 0B34, 0B35, 4A38, 4A39, 10A4, 11B4, 15B4.....	1933-41	M20 M21 M26 M27	3.80	8 x 7	AL	2	General purpose General purpose, bronze 75 lb. class, light loads Rowboats and loads
Alternate, 5 and 6 H.P.....	5A39, 10A6, 11A6, 11AA6, 15A6, 15AA6, 15B4.....	1939-41		6.00	8 x 7	BR	2	
				4.75	8 x 8	AL	2	
				6.50	8 1/4 x 6	BR	3	
Imp. Twin, 6 H.P.....	6A38, 6A39, 15A6, 15AA6.....	1938-47-48						
Twin, 6 H.P.....	0B51, 0B61, 0B63, 0B64, 0B65.....	1933-36	M37	3.50	9 x 8 1/2	AL	2	General purpose
Alternate.....	9A38, 9A39, 10A10, 11A9, 11AA9, 11A10, 11AA10, 15A10, 15AA10, 15A9, 15AA9.....	1938-47-48	M60 M62 M65	7.00	9 x 9	AL	3	General purpose Racing light runabouts Heavier boats and loads
				8.25	8 1/2 x 10 1/2	BR	2	
				8.25	9 x 9	BR	2	
Master Twin, 16 H.P.....	0B15, 0B16, 0B17, 16A-38, 16A39, 10A16, 11A-16, 11B16, 15A16, 15B16.....	1931-41-46	AJ400	12.00	9 x 12 1/2	BR	2	AJ racing light runabouts
			J151	7.50	10 x 11	BR	2	Two blade, general purpose General purpose AM heavier boats with passengers
			J154	12.00	10 x 10	BR	3	
			AM111	11.00	9 1/2 x 9	BR	3	
Alternate Twin, 3 1/2 H.P.....	11A3, 11AA3, 15A3, 15AA3, 17AA3, 17A3.....	1941-46-49	M70 M71	3.30	6 1/2 x 5	AL	2	General purpose General purpose, bronze
				6.00	6 1/2 x 5	BR	2	
5 H.P.....	AA4.....	1948-49	M72 M73	3.30	6 1/2 x 6 1/2	AL	2	General purpose General purpose, bronze
				6.00	6 1/2 x 6 1/2	BR	2	

BENDIX

Singles.....	2 1/4 H.P.....	1940	X5	\$ 4.40	7 1/2 x 5	AL	2	General purpose
Twins.....	4 1/2 H.P.....	1940	X20	4.75	8 1/4 x 6	AL	2	General purpose

Propeller damage won't lay up your boat if you own a spare propeller.

MICHIGAN PROPELLER SELECTOR AND PRICE LIST

Prices Subject To Change Without Notice

CHRIS CRAFT

MOTOR	MODEL No.	YEAR	Part No.	Price	Dia. and Pitch	Metal	No. Blades	RECOMMENDATION
Challenger, 5 H.P.	J.....	1949-50	C514	\$ 5.50	8¼ x 9½	AL	2	General purpose and speed
Commander, 10 H.P.	K.....	1950	C520	8.10	8¾ x 10½	AL	2	General purpose Racing, light runabouts
			AJ430	13.50	7¾ x 10	BR	2	

ELGIN

Single, 1¼ H.P.	571, 58301.....	1946-50	G10	\$ 3.00	6½ x 5	AL	2	General purpose
Single, 2½ H.P.	571, 58401.....	1947-50	G20	3.30	7½ x 4½	AL	2	General purpose
Twin, 3½ H.P.	571, 58501 and 21.....	1947-50	G30	3.30	7½ x 5½	AL	2	General purpose
Twin, 5, 5½-6 H.P.	571, 58601, 11 and 21 571, 58541.....	1947-48 1949-50	G40	3.30	7½ x 7½	AL	2	General purpose
			G41	4.80	7½ x 7½	BR	2	General purpose, bronze
			G70	8.10	7½ x 7	BR	2	Racing, light runabouts
			AM300	6.00	6¾ x 6	BR	3	AM medium boats, light loads
Twin, 7½ H.P.	571, 58731.....	1949-50	G50	4.40	7½ x 8½	AL	2	General purpose
			AJ52	9.90	7½ x 8½	BR	2	AJ racing, light runabouts
			AM290	8.00	6¾ x 8½	BR	3	AM medium boats, light loads
Twin, 16 H.P.	.....	1950	G60	8.10	9½ x 9½	AL	3	General purpose
			AJ440	13.50	.....	BR	2	AJ racing, light runabouts
			AM350	9.90	.....	BR	3	AM medium boats, light loads
			AM351	9.90	.....	BR	3	AM heavier boats and passengers

FIRESTONE, CORSAIR

Single.....	460, 462.....	1946	P51	\$ 3.30	7½ x 6½	AL	2	General purpose
			P52	4.80	7½ x 6½	BR	2	General purpose, bronze
Single, 3.6 H.P.	463, 464-476, 477, 486, 487.....	1947-48	SA10	3.50	7¾ x 6	AL	2	General purpose
Twin, 7½ H.P.	479, 489.....	1947-48	SA3	4.80	8 x 7½	AL	2	General purpose
			SA4	6.00	8 x 7½	BR	2	General purpose, bronze
			SA1	5.10	8 x 9	AL	2	75 lb. class, light loads
			AJ8	12.00	7¾ x 8½	BR	2	AJ racing, light runabouts
			AM210	8.00	7¾ x 8	BR	3	AM medium boats, light loads
Twin, 5 H.P.	.....	1949-50	SA20	4.20	7½ x 7	AL	2	General purpose
			AM270	8.00	6¾ x 7½	BR	3	AM Medium boats, light loads
			AM271	8.00	6¾ x 7	BR	3	AM heavier boats, medium loads

FLAMBEAU

Single.....	2½-3 H.P.....	1947-50	FL10	\$ 3.30	7 x 6	AL	2	General purpose
Twin.....	5-6 H.P.....	1947-50	FL20	5.10	8 x 8½	AL	2	General purpose 75 lb. class, light loads
			FL21	5.40	8 x 9	AL	2	

LAUSON

Single.....	2½-3 H.P.....	1940-50	L30	\$ 4.00	7½ x 6	AL	2	General purpose
			L31	5.00	7½ x 6	BR	2	General purpose, bronze
Twin.....	6 H.P.....	1948-50	L50	5.00	8 x 6½	AL	2	General purpose
			L51	6.00	8 x 6½	BR	2	General purpose, bronze
			AM310	8.10	7½ x 6½	BR	3	AM medium boats and light loads

What's a vacation or fishing trip without the use of your motor — carry a spare propeller.

MICHIGAN PROPELLER SELECTOR AND PRICE LIST

Prices Subject To Change Without Notice

LE JAY

MOTOR	MODEL No.	YEAR	Part No.	Price	Dia. and Pitch	Metal	No. Blades	RECOMMENDATION
Electric, 5/8" shaft.....		Thru 1945	H50	\$ 2.50	6 x 5	AL	2	General purpose
Electrol, 7/16" shaft.....	46-A.....	1946-50	H60	3.00	6 x 5	AL	2	General purpose

LOCKWOOD

Foldlight.....		1930	B10	\$ 4.50	8½ x 8	AL	2	General purpose
Ace.....		1929-30	L411	8.80	9¼ x 8½	AL	2	General purpose
Chief.....	82B-92B.....	1928-29	L420 L423	9.25 9.25	9 x 14 10 x 12½	BR BR	2 2	General purpose Runabouts, best average

MARTIN

Twin, 7.2 H.P.....	"60" and "66".....	1946-50	Q10	\$ 5.00	8 x 8	AL	2	General purpose 75 lb. class, light loads Rowboats and medium run- abouts, weedless AJ racing, light runabouts AM fast wheel, light boats and loads
			Q31	5.50	8 x 9½	AL	2	
			QW32	6.00	8 x 7	AL	3	
			AJ34	12.00	7¾ x 8½	BR	2	
			AM181	8.00	7½ x 8	BR	3	
Twin, 5.7 H.P.....	"40".....	1946-50	Q40	4.50	7½ x 6	AL	2	General purpose
Single, 2.3 H.P.....	"20".....	1948-50	Q20	4.00	6½ x 4¼	AL	2	General purpose
Twin, 10 H.P.....	100.....	1950	Q50	7.00	8 x 9¼	AL	2	General purpose AJ racing, light runabouts AM medium runabouts, light loads
			AJ450	12.00	.....	BR	2
			AM360	8.00	.....	BR	3

MERCURY

Single.....	K1, 2, 3, KB1A, WA2, 3, WB2, 3, KE3.....	1940-48	K8	\$ 3.00	7½ x 6	AL	2	General purpose
Twin, 6 H.P.....	K4, 5, KB4, 5, WA6, WB6, KD4, WB4, WD4.....	1940-47	K15	3.30	7½ x 7	AL	2	General purpose General purpose, bronze 75 lb. class, light loads Medium boats, medium and heavy loads
			K16	5.70	7½ x 7	BR	2	
			K17	5.70	7½ x 8	BR	2	
			K19	6.00	7½ x 6½	AL	3	
Twin, 7½ H. P. Pocket.....	KE4.....	1947-50	K50	3.30	7½ x 8	AL	2	General purpose Heavier boats with loads, bronze General purpose, bronze Heavier boats with loads AJ racing, light runabout AJ racing, light runabout AM medium boats, light loads
			K53	8.00	7¼ x 6½	BR	3	
			K51	7.00	7½ x 8	BR	2	
			K52	5.50	7¼ x 6½	AL	3	
			AJ57	12.00	7 x 8	BR	2	
			AJ56	12.00	7 x 7½	BR	2	
Twin, 10 H. P. (Lightning).....	KE7.....	1947-50	K40	5.50	7½ x 9	AL	3	General purpose Heavier boats, medium loads Medium boats, light loads General purpose, bronze AJ racing, light boats, light loads AJ racing, light boats, light loads Weedless AJ racing, light boats, light loads AJ racing, souped engines AM medium boats, light loads AM medium boats, heavier loads AM heavier boats and loads
			K41	9.00	7½ x 8	BR	3	
			K43	5.50	7½ x 10	AL	3	
			K44	9.00	7½ x 9	BR	3	
			AJ45	12.00	8½ x 9	BR	2	
			AJ47	12.00	8½ x 10	BR	2	
			KW48	9.90	8 x 9½	BR	2	
			AJ46	12.00	8½ x 9½	BR	2	
			AJ42	13.50	7¾ x 10	BR	2	
			AM191	8.00	7½ x 10	BR	3	
AM192	8.00	7½ x 9½	BR	3				
AM194	9.90	8 x 8½	BR	3				

No propeller will perform smoothly, efficiently if bent or thrown out of balance. Own a spare to use while damaged wheel is reconditioned.

MICHIGAN PROPELLER SELECTOR AND PRICE LIST

Prices Subject To Change Without Notice

MERCURY (Continued)

MOTOR	MODEL No.	YEAR	Part No.	Price	Dia. and Pitch	Metal	No. Blades	RECOMMENDATION
Twin, 10 H. P. (Super Ten) and (Hurricane)	KF7, KG7	1949-50	K30	\$ 5.00	7 1/2 x 10	AL	3	General purpose, spline hub for standard clutch
			K31	9.00	7 1/2 x 10	BR	3	General purpose, spline hub for standard clutch, bronze
			AM320	9.90	8 x 9	BR	3	AM heavier boats and passengers
			AM322	8.00	7 1/2 x 10 1/2	BR	3	AM medium boats, light load
			AJ48	13.50	7 3/4 x 10	BR	2	Special AJ for competitive racing
			A J49	13.50	7 3/4 x 10 1/2	BR	2	
NOTE: Above AJ and AM require spline adaptor kits at \$2.70 each.	AM	1949-50	AJ50	13.50	7 3/4 x 11	BR	2	
Twin, 25 H. P. (Thunderbolt)	KG9	1949-50	K22	9.90	9 x 12	AL	2	General purpose, 1949 model
			K28	10.50	9 1/2 x 12	BR	2	General purpose, 1950 model
			AM280	12.00	9 1/4 x 11 1/2	BR	3	AM medium boats, medium loads
			AM281	12.00	9 1/4 x 11	BR	3	AM heavier boats and loads
			AJ80	17.40	9 1/2 x 11 1/2	BR	2	AJ racing, heavier boats
			AJ81	17.40	9 1/2 x 12	BR	2	AJ racing, medium boats
			AJ82	17.40	9 1/2 x 12 1/2	BR	2	AJ racing, light boats
			AJ83	17.40	9 x 12	BR	2	AJ racing, 14' class boats
			AJ84	17.40	9 x 12 1/2	BR	2	AJ racing, medium boats
			AJ85	17.40	9 x 13	BR	2	AJ racing, fast light hulls
Twin, 5 H.P. Single, 3 1/2 H.P.	Super 5, KF5 Comet, KF3	1949-50 1949-50	K70	3.00	6 3/4 x 6 1/2	AL	2	General purpose, spline hub for standard clutch
			K71	5.00	6 3/4 x 6 1/2	BR	2	General purpose, spline hub for standard clutch
			K72	5.00	6 3/4 x 7	BR	2	75 lb. class, light loads for Super 5 only

SEA KING

Single, 2.8 H.P.			K8	\$ 3.00	7 5/8 x 6	AL	2	General purpose
Single, 1 H.P.	377, 381, 469		E40	2.70	6 x 5	AL	2	General purpose
Single, 1.8 H.P.	477		E27	3.00	7 x 6	AL	2	General purpose
Single, 1.8 H.P.	367		E4	3.60	7 x 6	AL	2	General purpose
Single, 2.2 H.P.	489, 490		E237	3.80	7 1/2 x 6	AL	2	General purpose
Twin, 2.5 H.P.	498		W8	3.30	7 1/2 x 6	AL	2	General purpose
Twin, 2.8 H.P.	449	}	E32	3.00	7 1/2 x 6	AL	2	General purpose
Twin, 3.3 H.P.	378							
Twin, 3 H.P.	369, 378, 379, 8814		E8	3.60	7 1/2 x 6	AL	2	General purpose
Twin, 4 H.P.	400, 416, 491, 494, 499		E242	3.80	8 3/4 x 8	AL	2	General purpose
Twin, 5 H.P.	371		E196	4.75	7 1/2 x 8	AL	2	General purpose
			E198	6.00	7 1/4 x 9	BR	2	75 lb. class boats, light loads
			E199	5.50	8 1/4 x 6	AL	2	Rowboat
			AM120	8.00	7 1/2 x 6 1/2	BR	3	AM heavier boats, 14' class
			AM121	8.00	7 1/2 x 7 1/2	BR	3	AM light planing boats with light loads
Twin, 8.5 H.P.	471, 492, 473		E291	7.00	9 x 8	BR	2	General purpose
			E294	8.80	8 1/2 x 9 1/2	BR	2	Racing for light runabouts
			AM80	8.80	8 x 9	BR	3	AM medium boats, medium and light loads
			AM81	9.35	8 1/4 x 9	BR	3	AM heavier boats with passengers
Twin, 12 H.P.	9017	1949-50	AJ20	12.00	8 3/4 x 10	BR	2	AJ speed wheel, extra light runabouts
			AJ22	12.00	8 3/4 x 9 1/2	BR	2	AJ speed wheel, 12' class boats
			AJ23	12.00	8 3/4 x 10 1/2	BR	2	AJ speed wheel, souped engine
			AM240	9.90	8 3/4 x 10 1/2	BR	3	AM average runabouts, light loads
			AM241	9.90	8 3/4 x 10	BR	3	AM average runabout, 2 passengers
			AM242	9.90	8 3/4 x 9	BR	3	AM heavier boats and passengers

Propeller damage won't lay up your boat if you own a spare propeller.

MICHIGAN PROPELLER SELECTOR AND PRICE LIST

Prices Subject To Change Without Notice

SCOTT-ATWATER

MOTOR	MODEL No.	YEAR	Part No.	Price	Dia. and Pitch	Metal	No. Blades	RECOMMENDATION
Single, 3.6-4 H.P.	461, 467-47, 471-480, 481, 1-12, 1-14	1946-50	SA10	\$ 3.50	7 $\frac{3}{8}$ x 6	AL	2	General purpose
Twin, 7 $\frac{1}{2}$ H.P.	473, 483, 493, 1-20	1947-50	SA1	5.10	8 x 9	AL	2	75 lb. class, light loads
			SA3	4.80	8 x 7 $\frac{1}{2}$	AL	2	General purpose
			SA4	6.00	8 x 7 $\frac{1}{2}$	BR	2	General purpose, bronze
			AJ8	12.00	7 $\frac{3}{4}$ x 8 $\frac{1}{2}$	BR	2	AJ racing, light runabouts
			AM210	8.00	7 $\frac{3}{4}$ x 8	BR	3	AM medium boats, light loads
Twin, 5 H.P.	497, 1-16	1949-50	AM211	8.00	7 $\frac{3}{4}$ x 7	BR	3	AM medium boats with loads
			SA20	4.20	7 $\frac{1}{2}$ x 7	AL	2	General purpose
			AM270	8.00	6 $\frac{3}{4}$ x 7 $\frac{1}{2}$	BR	3	AM medium boats, light loads
Twin, 16 H.P.	1-30	1950	AM271	8.00	6 $\frac{3}{4}$ x 7	BR	3	AM heavier boats, medium loads
								Write for information

WATERWITCH

Single, $\frac{3}{4}$ -1 H.P.		1938-41	S5	\$ 3.30	6 $\frac{1}{2}$ x 4	AL	2	General purpose
Single, 2 $\frac{1}{2}$ -2 $\frac{3}{4}$ H.P.		1936-41	S10	3.30	7 $\frac{1}{2}$ x 7	AL	2	General purpose
Single, 3.5 H.P.		1940-41	S15	3.30	8 $\frac{1}{2}$ x 7	AL	2	General purpose
Twin, 4-4 $\frac{3}{4}$ H.P.		1936-39	S20	3.80	8 x 8	AL	2	General purpose
Twin, 5 $\frac{3}{4}$ H.P.		1940-41	S15	3.30	8 $\frac{1}{2}$ x 7	AL	2	General purpose
			S23	4.50	8 $\frac{1}{4}$ x 7	AL	3	Rowboat
Twin, 10 H.P.		1941	S50	6.50	9 x 10 $\frac{1}{2}$	AL	2	General purpose
Twin, 8.5 H.P.			JK1	7.50	10 $\frac{1}{4}$ x 13	AL	2	General purpose

HIAWATHA, SEA BEE, MARINER, ROYAL

Single, 3-3 $\frac{1}{2}$ H.P.		1947-50	Y1	\$ 3.60	6 $\frac{7}{8}$ x 5	AL	2	General purpose
Twin, 5 H.P.		1947-50	Y10	4.80	7 $\frac{1}{2}$ x 8	AL	2	General purpose
			AM120	8.00	7 $\frac{1}{2}$ x 6 $\frac{1}{2}$	BR	3	AM heavier boats, 14' class
			AM121	8.00	7 $\frac{1}{2}$ x 7 $\frac{1}{2}$	BR	3	AM light planing boats, light loads
Twin, 12 H.P.		1948-50	AJ22	12.00	8 $\frac{3}{4}$ x 9 $\frac{1}{2}$	BR	2	AJ speed wheel, 12' class boats
			AJ23	12.00	8 $\frac{3}{4}$ x 10 $\frac{1}{2}$	BR	2	AJ speed wheel, souped engine
			AJ20	12.00	8 $\frac{3}{4}$ x 10	BR	2	AJ speed wheel, extra light boats
			AM240	9.90	8 $\frac{3}{4}$ x 10 $\frac{1}{2}$	BR	3	AM average runabouts, light loads
			AM241	9.90	8 $\frac{3}{4}$ x 10	BR	3	AM average runabouts, 2 passengers
			AM242	9.90	8 $\frac{3}{4}$ x 9	BR	3	AM heavier boats and passengers

WIZARD (Western Auto)

Twin, 6 H.P.		Thru 1950	K15	\$ 3.30	7 $\frac{5}{8}$ x 7	AL	2	General purpose
			K16	5.70	7 $\frac{5}{8}$ x 7	BR	2	General purpose, bronze
			K17	5.70	7 $\frac{5}{8}$ x 8	BR	2	75 lb. class, light loads
			K19	6.00	7 $\frac{1}{2}$ x 6 $\frac{1}{2}$	AL	3	Medium boats, medium and heavy loads
Single, 3.2 H.P.		1950	K8	3.00	7 $\frac{5}{8}$ x 6	AL	2	General purpose
Twin, 10 H.P.		1950	K40	5.50	7 $\frac{1}{2}$ x 9	AL	3	General purpose
			K44	9.00	7 $\frac{1}{2}$ x 9	BR	3	General purpose, bronze
			AJ46	12.00	8 $\frac{1}{8}$ x 9 $\frac{1}{2}$	BR	2	AJ racing light boats, light loads
			AJ47	12.00	8 $\frac{1}{8}$ x 10	BR	2	AJ racing, fast light hulls
			AM191	8.00	7 $\frac{1}{2}$ x 10	BR	3	AM medium boats, light loads
			AM192	8.00	7 $\frac{1}{2}$ x 9 $\frac{1}{2}$	BR	3	AM medium boats, heavier loads
			AM194	9.90	8 x 8 $\frac{1}{2}$	BR	3	AM heavier boats and loads

Own a spare propeller to use while the original is reconditioned.

RACING PROPELLERS FOR RACING MOTORS

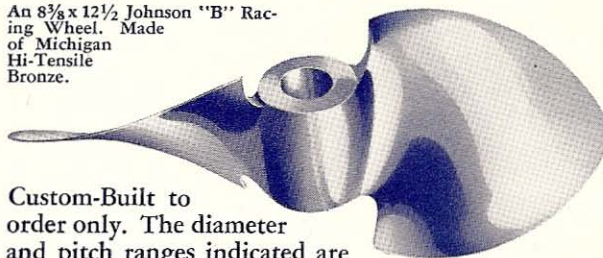
(Order by Diameter, Pitch, Motor Make and Class)

Hi Tensil Bronze

	DIAMETER RANGE	PITCH RANGE	PRICE
Midget Evinrude	6 7/8" to 7"	9" to 9 1/2"	\$15.00
"A" Johnson	7 1/2" to 7 3/4"	11 1/2" to 12"	18.00
"B" Johnson	8 1/4" to 8 1/2"	12 1/2" to 13"	20.00
"C" Johnson	8 3/4" to 9"	14 1/2" to 15"	20.00
"C" Evinrude	8 3/4" to 9"	14 1/2" to 15"	20.00

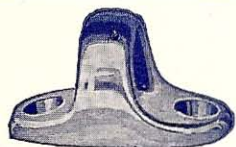
Michigan outboard racing wheels hold more world's records and important wins than all others combined. All propeller sizes listed above are of the two blade style, from special racing design patterns and are

An 8 3/8 x 12 1/2 Johnson "B" Racing Wheel. Made of Michigan Hi-Tensile Bronze.



Custom-Built to order only. The diameter and pitch ranges indicated are normally within the range required for hydroplane racing installations.

QUALITY FITTINGS THAT DRESS UP YOUR BOAT AND ADD TO YOUR BOATING PLEASURE



No. 301



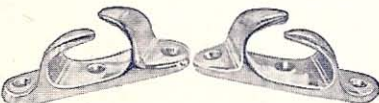
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No. 304 & 5



No. 308



No. 303



No. 306

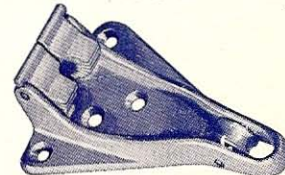
	PLAIN BRASS	POLISHED BRASS	CHROME
No. 301 Rope Guide18	.52	.57
No. 302 Lifting Handle .....	.50	1.65	1.78
No. 303 Bow Chock	1.12 pr.	2.72	3.00
No. 304 Cleat (3 1/2") .....	.38	.90	1.05
No. 305 Cleat (5") .....	.58	1.15	1.30
No. 307 Cheek Block	1.10	1.65	1.80
(1/4" or 5/16" Rope)			
No. 308 Pulley (1 3/4" wheel size)	1.60	3.20	3.65
No. 309 Bow Handle (7" long)	1.05	2.90	3.10
No. 311 Bow Eye .....	.69	1.22	1.32
No. 313 Fender Cleat .....	.18	.65	.75
No. 317 Bow Handle			
Cast Aluminum	\$1.00	Polished Aluminum	\$2.25
— 0 —			
No. 306 Rope Clamp (3/16" size)			\$.27
No. 310 Anchor Pulley, Aluminum Self-Locking			1.60
No. 312 Snap Clamp, Steel — Cadmium Plated .....			.30



No. 313



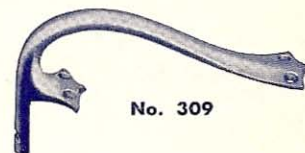
No. 312



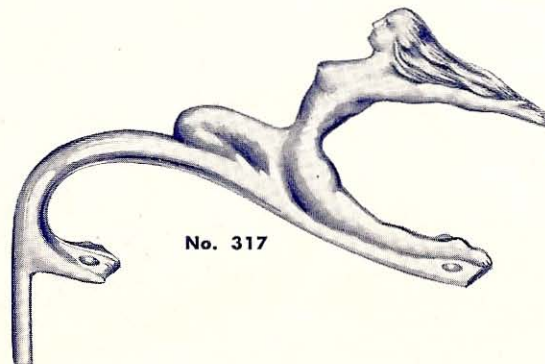
No. 310



No. 307



No. 309



No. 317



No. 302

QUALITY FITTINGS THAT DRESS UP YOUR BOAT AND ADD TO YOUR BOATING PLEASURE



No. 510
No. 512

No. 510 FIN. (for class M & A boats.) Area 23 sq. in. High Tensile Aluminum Plain\$1.25
With Buffed Finish.....1.75

No. 512 Fin. (for class B & larger.) Area 38 sq. in. High Tensile Aluminum Plain\$1.50
With Buffed Finish.....2.00

No. 601 ANCHOR
(cast iron) 8 lbs.....\$2.00

No. 602 ANCHOR
(cast iron) 12 lbs.....\$2.50



No. 601
No. 602

WATER SPEEDOMETERS



No. 201
No. 202

Speedometers

No. 201 — 204 Polished Aluminum case. Precision instruments — accurate within 1%. Corrosion Resistant Throughout. Easily installed on any outboard boat. Essential in trimming your boat, checking propellers, fuels, etc.

No. 201 Registers 0-35 mph — complete with 14' plastic tube.....\$10.95

No. 202 Registers 10-50 mph — complete with 14' plastic tube.....\$12.95

No. 204 Black Steel case. Registers 0-35 mph — complete with 8' plastic tube\$6.50
(Spare parts furnished as ordered)



No. 204
Speedometer

No. 516 Transom Plates (with leathers)\$1.25 pr.



No. 516

No. 800 Motor Carrier — Low cost — Sturdy — Handles all motors thru 16 h.p. Welded steel construction. Hardwood block\$7.85



No. 800

No. 314 Lifting Handle Plain Brass\$.85
Polished Brass 2.15
Chrome 2.26



No. 516

STEERING WHEELS

Fine quality low cost steering wheels made of corrosion resistant high tensile aluminum, hard rubber covered with non-slip grip. Bright clear lacquer finish.

(Runabout Type)

No. 401 Black\$12.75
No. 402 Red 13.75
No. 403 Gray 13.75

(Racing Type)

No. 404 Red\$13.95
No. 405 Gray 13.95
No. 406 Black 12.95

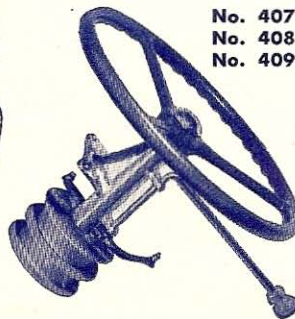
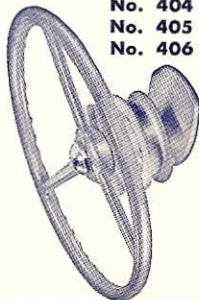
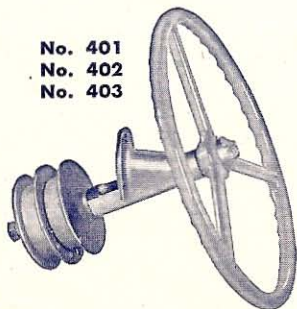
(With Throttle)

No. 407 Black\$14.50
No. 408 Red 15.50
No. 409 Gray 15.50

No. 401
No. 402
No. 403

No. 404
No. 405
No. 406

No. 407
No. 408
No. 409

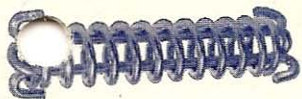


No. 314

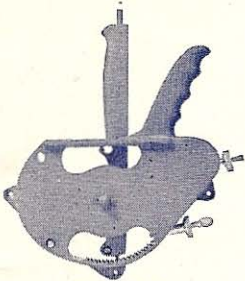


No. 203 — Electric
Tachometer

Registers motor r.p.m. on all outboards. Accurate reading from 1000-8000 r.p.m. Installed by attaching wire to spark plug and to spark wire lead. Plastic non-magnetic case. A must to check performance of engine and efficiency of propeller\$48.00



No. 315

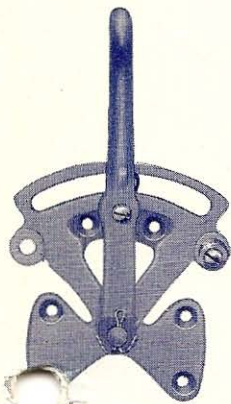


No. 506

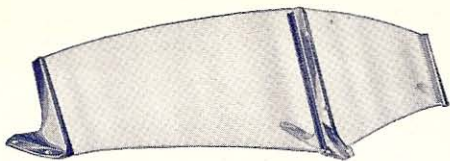
No. 315 STEERING ROPE TIGHTENER — \$.50

No. 506 RACING THROTTLE — Red crinkle, no slip finish, automatic cut off on pressure release — \$7.50

No. 504 UTILITY THROTTLE (side mounting) Plain brass \$2.90



No. 504

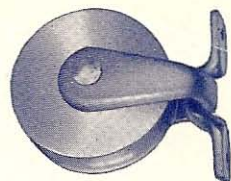


No. 501

No. 501 WINDSHIELD BRACKETS — Three piece set. Grooves for 1/4" glass. Glass not included. Ht. ends 4 3/4", Center 8".

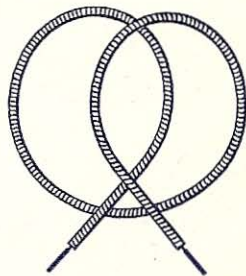
Polished Brass\$12.30 set

Chromed 14.00 set



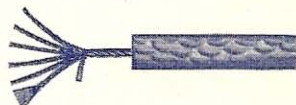
No. 316

No. 316 PULLEY (2" wheel size) Aluminum wheel — \$1.30



No. 702

No. 702 BOWDEN WIRE \$.15 ft. Cadmium plated steel casing, wire core.



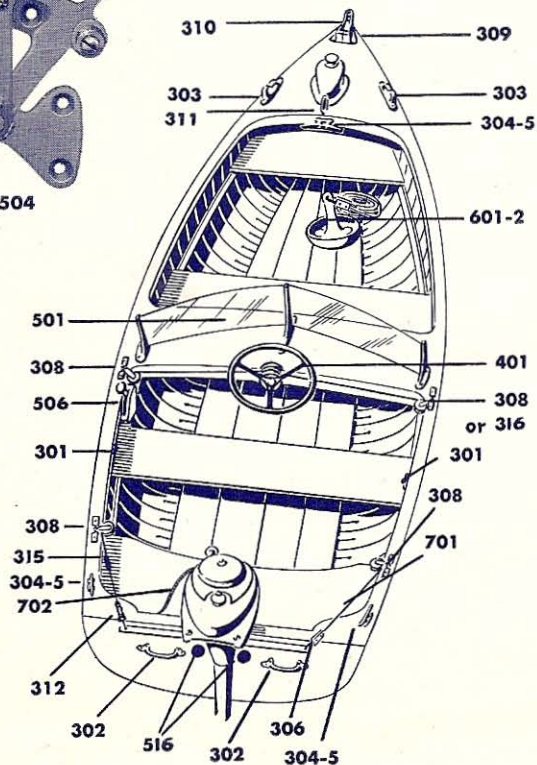
No. 701

No. 701 TILLER ROPE. \$.10 ft. (wire core)

No. 703 NYCABE CABLE Nylon covered steel 2,000-lb. test. Will not fray — \$.30 ft.



No. 703

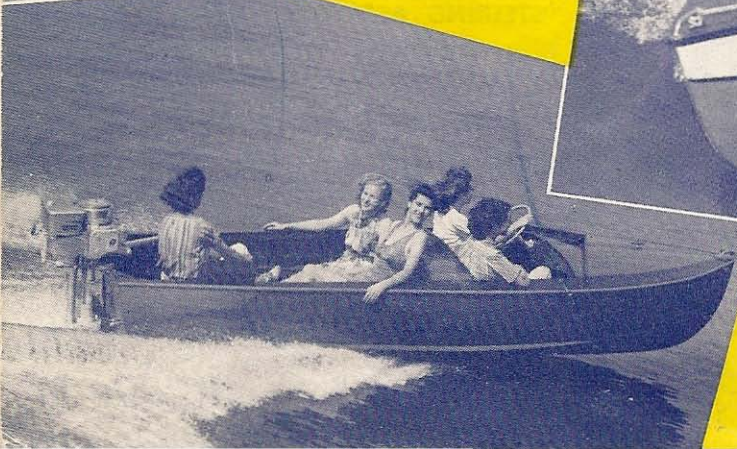
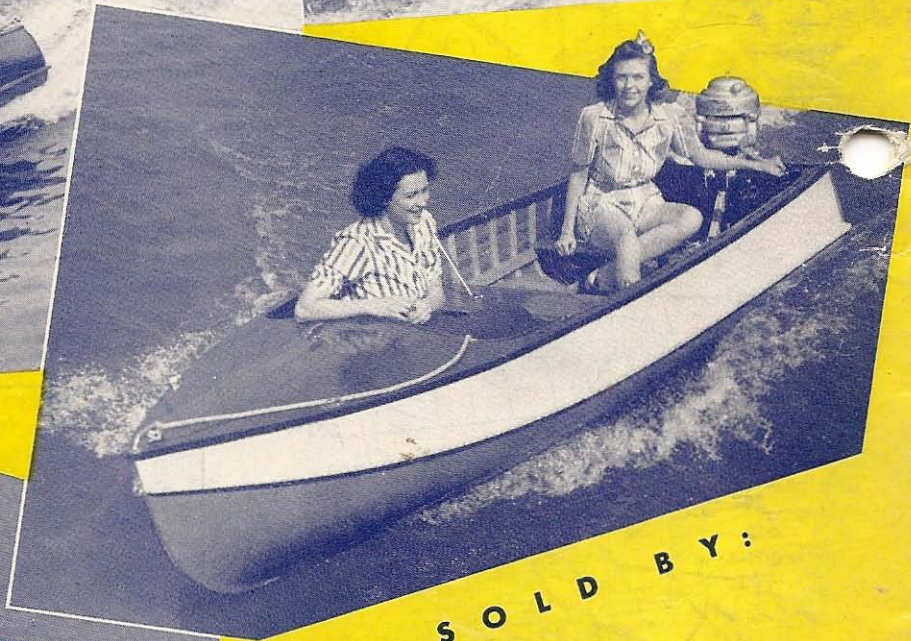


**STEERING ASSEMBLY
COMPLETE**

1 No. 408
4 No. 316
2 No. 312
2 No. 306
25' No. 701
10' No. 702

\$25⁸⁴

Red Wheel with Throttle
Pulleys
Snap Clamps
Rope Clamps
Tiller Rope
Bowden Wire and Casing



SOLD BY: