

INFORMATION ON OUTBOARD RACING

HOW A RACE IS STARTED

● A preparatory gun is fired and a red flag raised five minutes before the start. A warning gun is fired exactly sixty seconds before the start, the red flag is replaced by a white flag, and the clock started. At the end of the sixty seconds the dropping of the white flag indicates the official start. (A gun is also usually fired to call attention to the start.)

Boats jumping the gun may be disqualified or the race may be restarted. In the case of a restart, boats are recalled by the rapid dipping of a red flag or in the event of a postponement a yellow flag will be shown.

A green flag indicates the beginning of the last lap. As each boat finishes, a checkered flag indicates finish, red flag at finish means disqualification. A gun is fired for first boat to finish.

CLASSIFICATION OF MOTORS

Racing motors compete in classes according to size, determined by piston displacement.

- CLASS M—not over 7½ cubic inches (Midget)
- A—not over 14 cubic inches
- B—not over 20 cubic inches
- C—not over 30 cubic inches
- F—not over 60 cubic inches
- X—unofficial, unlimited

NOTE: Class X motors are non-stock for International events only and are not recognized by the National Outboard Racing Commission.

BOAT WEIGHTS • Class M—50 lbs., Class A and B—100 lbs., Class C—150 lbs., Class F—190 lbs.

DIVISIONS • Division I—Amateurs (odd numbered boats); Division II—Professionals (even numbered boats). Amateurs race for trophies only; professionals race for cash prizes. When the two classes race together, their places and winnings are figured separately.

FREE Write for the Sea-Horse Handy Chart illustrating the nine service models for 1938 or see your nearest dealer.

• • FOR RACING OR PLEASURE • •

JOHNSON *Sea-horse*

OUTBOARD
JOHNSON MOTORS,

MOTORS

Waukegan, Illinois



LATEST OFFICIAL WORLD'S RECORDS

As of March 1, 1938

● When a new World's Record is made in a sanctioned race the motor and boat are carefully inspected to see that they conform to all requirements. When the proper reports are presented and accepted by the National Racing Commission the record becomes official.

MILE TRAILS

M-I	36.128	Edwin Pabst	M-I	33.279	Edwin Pabst*
A-I	46.764	Clinton Ferguson	A-I	43.774	Thos. Tyson
B-I	52.494	Clinton Ferguson	B-I	48.886	Clinton Ferguson
C-I	57.508	Alex. Deener, III	C-I	52.770	Douglas C. Fonda
F-I	62.284	Douglas C. Fonda	F-I	54.152	Douglas C. Fonda
A-II	48.258	Mrs. Ruth Hering	A-II	43.774	Robert Flagg
B-II	51.766	Fred Jacob	B-II	48.309	Dick Neal
C-II	58.160	Dick Neal	C-II	53.129	Dick Neal
F-II	61.75	Ced. Coleman, Jr.	F-II	54.184	Louis Geraci

THREE AND ONE-THIRD MILES

HOW TO IDENTIFY BOATS

A—Maine, New Hampshire, Vermont.
B—Massachusetts.
C—California.
D—Connecticut and Rhone Island.
E—Virginia West Virginia, Maryland, Delaware, Washington, D. C.
F—Florida, Georgia, Alabama.
G—Minnesota and South Dakota.
H—Indiana.
J—New Jersey.
K—Kentucky and Tennessee.

Boats are lettered in accordance with the state in which the driver resides.



L—Louisiana, Mississippi, Arkansas.
M—Michigan.
N—New York.
O—Oklahoma.
P—Pennsylvania.

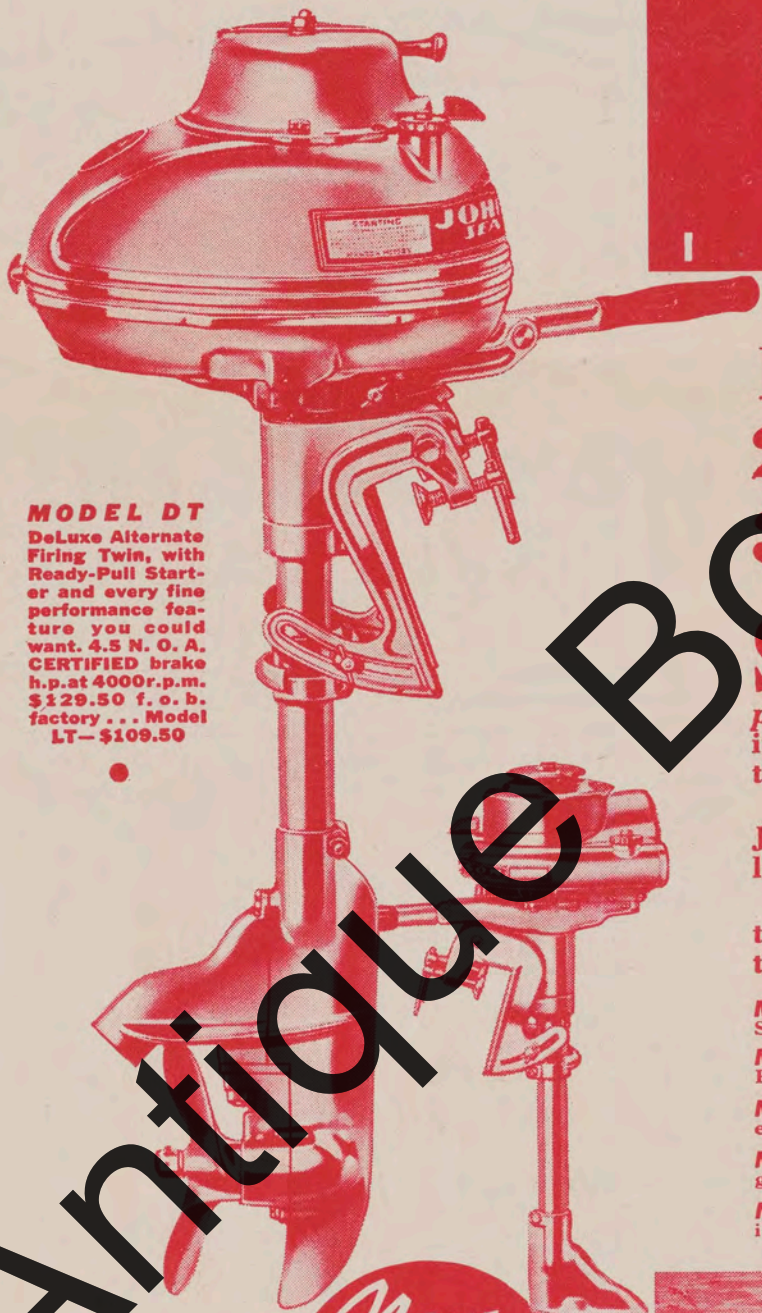
R—Oregon, Washington, Idaho, Western Canada.
S—Ohio.
T—Texas and New Mexico.
U—North Dakota, Wyoming, Montana, Colorado, Utah, Arizona and Nevada.
V—Illinois.
W—Wisconsin.
X—Iowa and Nebraska.
Y—Missouri and Kansas.
Z—North and South Carolina.

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Only **JOHNSON**
HAS ALL THREE!



MODEL DT
DeLuxe Alternate Firing Twin, with Ready-Pull Starter and every fine performance feature you could want. 4.5 N. O. A. CERTIFIED brake h.p. at 4000 r.p.m. \$129.50 f. o. b. factory . . . Model LT—\$109.50

MODEL MS
genuine Sea-Horse, with Underwater Exhaust, Full Pivot Reverse, Synchro-Control and other fine features. Speed up to 6 m.p.h. (DeLuxe Model MD, 21 lbs., \$62.50.)

New
\$49.50
F.O.B. FACTORY
17 LBS.



1 ALTERNATE FIRING: Cylinders fire alternately—giving two power impulses per revolution instead of one—creating a *smooth* power flow. Also contributes to easier starting, quieter running, sweeter performance.

2 FULL PIVOT REVERSE: If you want full maneuverability, you can't get along without this great outboard motor development. It is the only one to give you 360° steering and reverse!

3 UNDERWATER EXHAUST: No exhaust noise—no exhaust fumes. Note Johnson's famous streamlined *Single Shaft* construction—an engineering triumph which combines underwater exhaust and full pivot reverse.

SMOOTHNESS in a Johnson Alternate Firing Sea-Horse is something you can *feel*. It's not talk; it's real! It's real because Johnson Alternate Firing *levels out the power impulses*. Specifically it gives you *8000* power impulses per minute in place of 4000. A Johnson Alternate Firing Twin *purrs*—and there's nothing that will give you keener satisfaction!

There are literally dozens of such important improvements in Johnson design. They are not only for convenience, but for long life and **DEPENDABILITY** as well.

When you get a Johnson, you know you've got as fine a motor as money will buy. You may pay a few more dollars for it in the beginning—but it will cost you less in the end!

Model MS: Bantam-weight Single. Quality throughout . . .	\$49.50	Model LT: Famous Alternate Firing Twin . . .	\$109.50
Model MD: With Ready-Pull Starter. 21 lbs. . . .	\$62.50	Model DT: DeLuxe Alternate Firing Twin . . .	\$129.50
Model LS: Brilliant, powerful Light Single	\$77.50	Model KA: Super-powered Alternate Firing Twin . . .	\$177.50
Model DS: DeLuxe Single, with Ready-Pull Starter . . .	\$94.50	Model PO: Giant-powered opposed Twin . . .	\$269.50
Model 210: Famous utility opposed Twin	\$89.50	<i>All Prices f. o. b. factory. Subject to change.</i>	



JOHNSON *Sea-horse*

OUTBOARD MOTORS
JOHNSON MOTORS, Waukegan, Illinois

