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## Notice to Users of This Manual

Throughout this publication, Dangers, Warnings and Cautions (accompanied by the International HAZARD Symbol ) are used to alert the mechanic to special instructions concerning a particular service or operation that may be hazardous if performed incorrectly or carelessly. **OBSERVE THEM CAREFULLY!**

These safety alerts alone cannot eliminate the hazards that they signal. Strict compliance to these special instructions when performing the service, plus common sense operation, are major accident prevention measures.

### DANGER

**DANGER** - indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.

### WARNING

**WARNING** - indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury.

### CAUTION

**CAUTION** - indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury or property damage. It may also be used to alert against unsafe practices.

This manual has been written and published by the Service Department of Mercury Marine to aid our dealers' mechanics and company service personnel when servicing the products described herein. We reserve the right to make changes to this manual without prior notification.

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It is assumed that these personnel are familiar with marine product servicing procedures. Furthermore, it is assumed that they have been trained in the recommended service procedures of Mercury Marine Power Products, including the use of mechanics' common hand tools and the special Mercury Marine or recommended tools from other suppliers.

We could not possibly know of and advise the marine trade of all conceivable procedures and of the possible hazards and/or results of each method. Therefore, anyone who uses a service procedure and/or tool, which is not recommended by the manufacturer, first must completely satisfy himself that neither his nor the products safety will be endangered.

All information, illustrations and specifications contained in this manual are based on the latest product information available at the time of publication. As required, revisions to this manual will be sent to all dealers contracted by us to sell and/or service these products.

Refer to dealer service bulletins, operation maintenance and warranty manuals and installation manuals for other pertinent information concerning the products described in this manual.

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## Precautions

It should be kept in mind, while working on the product, that the electrical and ignition systems are capable of violent and damaging short circuits or severe electrical shocks. When performing any work where electrical terminals could possibly be grounded or touched by the mechanic, the battery cables should be disconnected at the battery.

Any time the intake or exhaust openings are exposed during service they should be covered to protect against accidental entrance of foreign material which could enter the cylinders and cause extensive internal damage when the engine is started.

It is important to note, during any maintenance procedure replacement fasteners must have the same measurements and strength as those removed. Numbers on the heads of the metric bolts and on the surfaces of metric nuts indicate their strength. American bolts use radial lines for this purpose, while most American nuts do not have strength markings. Mismatched or incorrect fasteners can result in damage or malfunction, or possibly personal injury. Therefore, fasteners removed should be saved for reuse in the same locations whenever possible. Where the fasteners are not satisfactory for reuse, care should be taken to select a replacement that matches the original.

## Replacement Parts

Use of parts other than the recommended service replacement parts, will void the warranty on those parts that are damaged as a result.

### WARNING

**Electrical, ignition and fuel system components on Mercury Marine Power Products are designed and manufactured to comply with U.S. Coast Guard Rules and Regulations to minimize risks of fire or explosion.**

**Use of replacement electrical, ignition or fuel system components, which do not comply to these rules and regulations, could result in a fire or explosion hazard and should be avoided.**

**When servicing the electrical, ignition and fuel systems, it is extremely important that all components are properly installed and tightened. If not, any electrical or ignition component opening would permit sparks to ignite fuel vapors from fuel system leaks, if they existed.**

## Cleanliness and Care of Product

A Mercury Marine Power Product is a combination of many machined, honed, polished and lapped surfaces with tolerances that are measured in the ten thousands of an inch/mm. When any product component is serviced, care and cleanliness are important. Throughout this manual, it should be understood that proper cleaning and protection of machined surfaces and friction areas is a part of the repair procedure. This is considered standard shop practice even if not specifically stated.

Whenever components are removed for service, they should be retained in order. At the time of installation, they should be installed in the same locations and with the same mating surfaces as when removed.

Personnel should not work on or under an engine that is suspended. Engines should be attached to work stands, or lowered to ground as soon as possible.

# Important Information

## Section 1A - Master Specifications

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# 135/150/175 Verado 4-Stroke Master Specifications

## General Specifications

Model Specifications	
Kilowatts (Horsepower)	100.6 kW (135 hp) 111.8 kW (150 hp) 130.5 kW (175 hp)
Weight	
50.8 cm (20 in.)	231.3 kg (510 lb.)
63.5 cm (25 in.)	239 kg (527 lb.)
76.2 cm (30 in.)	N/A
Displacement (all hp)	1.7L (105.7 cu. in.)
RPM	
Idle	550 ± 50 RPM
WOT	5800 - 6400 RPM
Induction System	SmartCraft DTS® electronic throttle, intercooled supercharged aspiration with electronic boost pressure control
Fuel System	Computer controlled sequential multi-port Electronic Fuel Injection
Ignition System	SmartCraft Propulsion Control Module (PCM) 03 digital inductive
Charging System	Regulated belt driven 70 amp alternator
Exhaust System	Through prop
Cooling System	Water cooled - thermostat with pressure control
Lubrication System	
Integrated dry sump	6.0 Liters (6.3 qt.)
Engine Control System	SmartCraft PCM 03 Digital Throttle and Shift (DTS)
Trim System	SmartCraft programmable
Maximum Tilt Range	73° (-5° to 68°)
Maximum Trim Range	20° (-5° to 15°)
Steering System	Electric - Hydraulic power steering with integral hydraulic cylinder

## Ignition Specifications

Ignition Specifications	
Full Throttle RPM	
135 hp	5200 - 6400
150 - 175 hp	5800 - 6400
Idle RPM (All Models)	650
Ignition Type	Digital Inductive
Spark Plug Type	NGK ILFR6G
Spark Plug Gap	0.8 mm (0.031 in.)
Spark Plug Hex Size	16 mm
Spark Plug Torque	27 Nm (20 lb. ft.)
Spark Plug Hole Size	14 mm
Firing Order	1-3-4-2
Ignition Timing @ Idle	Not Adjustable; Controlled by PCM
Ignition Timing @ WOT	Not Adjustable; Controlled by PCM
PCM Over Speed Limiter	Activates @ 6500 RPM

## Charging and Starting Specifications

Charging and Starting Specifications	
Alternator Output (Regulated)	
Output @ Battery (@ 1000 RPM)	37 - 44 Amperes
Output @ Battery (@ 3000 RPM)	53 - 69 Amperes
Output @ Alternator (@ 1000 RPM)	48 - 54 Amperes
Output @ Alternator (@ 3000 RPM)	65 - 72 Amperes
Voltage Set Point	14.5 +/- 0.25 Volts
Regulator Current Draw <sup>1</sup> .	
Ignition Switch "OFF" (maximum)	1.0 mA
Ignition Switch "ON"	350 mA
Starter Draw (Under Load)	160 Amperes
Starter Draw (No Load)	60 Amperes
Minimum Brush Length	6.54 mm (0.25 in.)
Battery Rating	
Marine Cranking Amperes (minimum)	1000
Cold Cranking Amperes (minimum)	800
Ampere Hour (Ah) (minimum)	180

1. All model alternator specifications require an amperage draw of less than 1.0 mA with the ignition key in the "OFF" position and an amperage draw of not more than 350.0 mA with key in the "ON" position.

## Fuel System Specifications

Fuel System Specifications	
Type of fuel	Automotive unleaded with a minimum pump posted octane rating of 87 (90 RON)
Approximate fuel pressure @ idle	281 - 345 kPa (41 - 50 psi)
Fuel filtration	
Fuel inlet water separator	2 microns
High pressure	20 microns

## Cylinder Block/Crankcase Specifications

Cylinder Block/Crankcase Specifications	
Number of cylinders	4
Displacement	1.7 liters (105.6 CID)
Compression ratio	8.25:1
Standard bore	82.00 mm (3.228 in.)
Stroke	82.0 mm (3.228 in.)
Cylinder bore maximum taper (service)	0.0762 mm (0.003 in.)
Cylinder bore maximum out of round (service)	0.0762 mm (0.003 in.)
Cylinder block main bearing	65.997 - 66.013 mm (2.5982 - 2.5989 in.)
Crankshaft main bearing journal	59.985 - 60.001 mm (2.3616 - 2.3622 in.)
Crankshaft pin journal	49.982 - 50.00 mm (1.9678 - 1.968 in.)
Crankshaft end play	0.08 - 0.19 mm (0.003 - 0.007 in.)
Crankshaft run out	0.05 mm (0.002 in.)
Crankshaft main bearing oil clearance (without expansion)	0.014 - 0.042 mm (0.0005 - 0.0016 in.)
Crankshaft pin bearing oil clearance (without expansion)	0.020 - 0.050 mm (0.0008 - 0.0019 in.)
Connecting rod wrist pin bore diameter	22.005 - 22.014 mm (0.8663 - 0.8666 in.)
Connecting rod crankshaft pin diameter	53.000 - 53.018 mm (2.0866 - 2.0873 in.)
Piston skirt standard diameter	81.975 mm (3.2273 in.)
Piston wrist pin bore diameter	22.004 - 22.011 mm (0.8662 - 0.8665 in.)
Wrist pin diameter	21.997 - 22.000 mm (0.8660 - 0.8661 in.)
Top ring groove width	1.25 mm (0.049 in.)
Second ring groove width	1.23 mm (0.048 in.)
Third ring groove width	2.03 mm (0.080 in.)
Top ring thickness	1.19 mm (0.047 in.)
Second ring thickness	1.19 mm (0.047 in.)
Third ring thickness	1.98 mm (0.078 in.)
Top ring side clearance	0.04 - 0.08 mm (0.001 - 0.003 in.)
Second ring side clearance	0.04 - 0.08 mm (0.001 - 0.003 in.)
Third ring side clearance	0.05 - 0.17 mm (0.002 - 0.006 in.)
Top ring end gap	0.27 - 0.42 mm (0.010 - 0.016 in.)
Second ring end gap	0.42 - 0.62 mm (0.016 - 0.024 in.)
Oil ring end gap	0.2 - 0.7 mm (0.007 - 0.027 in.)

## Cylinder Head Specifications

Cylinder Head Specifications	
Maximum deck warp	0.075 mm (0.003 in.)
Number of valves	16
Number of valves per cylinder	4
Number of cams	2
Cam bearing journal (intake and exhaust)	28.95 mm (1.140 in.)
Camshaft bearing cap ID	29.000 - 29.021 mm (1.1417 - 1.1425 in.)
Cam lobe	
Intake	42.50 mm (1.6732 in.)
Exhaust	43.55 mm (1.7145 in.)
Valve lash	
Intake	0.150 - 0.230 mm (0.0059 - 0.009 in.)
Exhaust	0.350 - 0.430 mm (0.0137 - 0.0169 in.)
Valve seat angles	30°, 45°, 60°
Valve spring free length	48.77 mm (1.920 in.)
Valve outside diameter	
Intake	32.0 ± 0.15 mm (1.259 ± 0.0059 in.)
Exhaust	27.2 mm ± 0.190 (1.0708 ± 0.0059 in.)
Valve face width (intake and exhaust)	2.25 mm (0.0886 in.)
Valve margin	
Intake	0.75 mm (0.0295 in.)
Exhaust	0.65 mm (0.0256 in.)
Valve guide bore ID (intake and exhaust)	6.00 - 6.016 mm (0.2362 - 0.2368 in.)
Valve stem diameter	
Intake	5.97 mm (0.235 in.)
Exhaust	5.96 mm (0.2346 in.)
Valve stem run-out (maximum)	0.038 mm (0.0015 in.)
Valve stem to valve guide clearance	
Intake	0.03 - 0.046 mm (0.0011 - 0.0018 in.)
Exhaust	0.04 - 0.056 mm (0.0015 - 0.0022 in.)
Valve seat contact width (intake and exhaust)	2.25 mm (0.0886 in.)

## Oil System Specifications

Oil System Specifications	
Engine capacity with filter replacement	6 liters (6.3 qt.)
Oil pressure (minimum) @ 550 RPM	70 kPa (10 psi)
Oil pressure (minimum) @ 6000 RPM	220 kPa (32 psi)
IOM thermostat opening temperature	105 °C (221 °F)



## Power Trim Specifications

Power Trim Specifications	
Trim up relief valve - tilt extended relief pressure	6100 - 7750 kPa (885 - 1125 psi)
Trim down relief valve pressure	4400 - 7300 kPa (640 - 1060 psi)
System fluid	Power Trim and Steering Fluid or Automatic Transmission Fluid (ATF) Type F, FA, Dexron II, or Dexron III

## Gear Housing Specifications

Gear Housing Specifications	
Gear Ratio	2.08:1 (12/25 Teeth)
Gearcase Capacity	970 ml (32.8 fl.oz.)
Gear Lubricant Type	High Performance Gear Lubricant
Pinion Height	0.635 mm (0.025 in.)
Forward Gear Backlash	0.432 - 0.635 mm (0.017 - 0.025 in.)
Reverse Gear Backlash	1.24 - 1.45 mm (0.049 - 0.057 in.)
Water Pressure @ RPM	
@ 650 RPM (idle)	15.2 kPa (2.2 psi)
@ 6000 RPM (WOT)	
Warm water slow boat	88 kPa (11.6 psi)
Cold water fast boat	220 kPa (32 psi)
Gear Housing Pressure (without gear lubricant, 5 minutes without leakage)	103.4 kPa (15 psi)

## Power Steering Specifications

Power Steering Specifications	
Fluid Type	SAE 0W-30 synthetic power steering fluid
Capacity	Typical 1 - 2 liters (1 - 2 quarts)
Current Draw	Not to exceed 75 Amps
Steering Ratio (32 cc helm and single steering cylinder, lock to lock) - preferred configuration	3.8 turns
Steering Ratio (40 cc helm and single steering cylinder, lock to lock)	3.0 turns
Steering Ratio (50 cc helm and single steering cylinder, lock to lock)	2.4 turns
Steering Ratio (32 cc helm with dual steering cylinders, lock to lock)	7.6 turns
Steering Ratio (40 cc helm with dual steering cylinders, lock to lock) - preferred configuration	6.0 turns
Steering Ratio (50 cc helm with dual steering cylinders, lock to lock)	4.8 turns

## Hydraulic Steering Specifications

Power Steering Specifications	
Fluid Type	SAE 0W-30 synthetic power steering fluid
Steering Ratio (28 cc helm and single steering cylinder, lock to lock) - preferred configuration	4.3 turns
Steering Ratio (33 cc helm and single steering cylinder, lock to lock)	3.7 turns
Steering Ratio (39 cc helm and single steering cylinder, lock to lock)	3.1 turns
Steering Ratio (28 cc helm with dual steering cylinders, lock to lock)	8.6 turns
Steering Ratio (33 cc helm with dual steering cylinders, lock to lock)	7.3 turns
Steering Ratio (39 cc helm with dual steering cylinders, lock to lock) - preferred configuration	6.2 turns

## 135 Verado 4-Stroke Propeller Information Chart

- Wide Open Throttle RPM: 5200 - 6400
- Recommended Transom Height: 50.8 cm (20 in.), 63.5 cm (25 in.), 76.2 cm (30 in.)
- Gear Reduction: 2.08:1
- Right Hand Rotation (RH) Standard, Left Hand Rotation (LH)

Diameter	Pitch	No. of Blades	Model	Approx. Gross Boat Wgt.	Approx. Boat Length	Speed Range	Propeller Part Number
13.75	24	4	Trophy Plus	Up to 861.83 kg (1900 lb.)	Up to 5.5 m (18 ft.)	82.08 - 104.61 km/h (51 - 65 MPH)	48-825940A47
14.62	24	3	Tempest Plus	Up to 861.83 kg (1900 lb.)	Up to 5.5 m (18 ft.)	82.08 - 104.61 km/h (51 - 65 MPH)	48-825872A47
13.75	23	4	Trophy Plus	771.11 - 997.9 kg (1700 - 2200 lb.)	5.2 - 5.8 m (17 - 19 ft.)	78.86 - 99.78 km/h (49 - 62 MPH)	48-825938A47
14.62	23	3	Tempest Plus	771.11 - 997.9 kg (1700 - 2200 lb.)	5.2 - 5.8 m (17 - 19 ft.)	78.86 - 99.78 km/h (49 - 62 MPH)	48-825864A47 (RH) 48-825865A47 (LH)
13.25	23	5	HighFive	771.11 - 997.9 kg (1700 - 2200 lb.)	5.2 - 5.8 m (17 - 19 ft.)	78.86 - 99.78 km/h (49 - 62 MPH)	48-815762A46
14.00	23	4	VenSura	771.11 - 997.9 kg (1700 - 2200 lb.)	5.2 - 5.8 m (17 - 19 ft.)	78.86 - 99.78 km/h (49 - 62 MPH)	48-825906A48 (RH) 48-825907A48 (LH)
13.50	23	3	Vengeance	771.11 - 997.9 kg (1700 - 2200 lb.)	5.2 - 5.8 m (17 - 19 ft.)	78.86 - 99.78 km/h (49 - 62 MPH)	48-16320A46 (RH) 48-16321A46 (LH)
13.75	23	3	Laser II	771.11 - 997.9 kg (1700 - 2200 lb.)	5.2 - 5.8 m (17 - 19 ft.)	78.86 - 99.78 km/h (49 - 62 MPH)	48-16548A46 (RH) 48-16547A46 (LH)
14.00	23	3	Black Max Aluminum	771.11 - 997.9 kg (1700 - 2200 lb.)	5.2 - 5.8 m (17 - 19 ft.)	75.64 - 96.56 km/h (47 - 60 MPH)	48-832834A45

**Master Specifications**

Diameter	Pitch	No. of Blades	Model	Approx. Gross Boat Wgt.	Approx. Boat Length	Speed Range	Propeller Part Number
13.75	21	4	Trophy Plus	861.83 - 1179.34 kg (1900 - 2600 lb.)	5.2 - 6.1 m (17 - 20 ft.)	69.20 - 91.73 km/h (43 - 57 MPH)	48-825934A47
14.62	21	3	Tempest Plus	861.83 - 1179.34 kg (1900 - 2600 lb.)	5.2 - 6.1 m (17 - 20 ft.)	69.20 - 91.73 km/h (43 - 57 MPH)	48-825862A47 (RH) 48-825863A47 (LH)
14.75	21	3	Mirage Plus	861.83 - 1179.34 kg (1900 - 2600 lb.)	5.2 - 6.1 m (17 - 20 ft.)	69.20 - 91.73 km/h (43 - 57 MPH)	48-13702A46 (RH) 48-13703A46 (LH)
13.25	21	5	HighFive	861.83 - 1179.34 kg (1900 - 2600 lb.)	5.2 - 6.1 m (17 - 20 ft.)	69.20 - 91.73 km/h (43 - 57 MPH)	48-815760A46
14.00	21	4	VenSura	861.83 - 1179.34 kg (1900 - 2600 lb.)	5.2 - 6.1 m (17 - 20 ft.)	69.20 - 91.73 km/h (43 - 57 MPH)	48-825902A48 (RH) 48-825903A48 (LH)
13.75	21	3	Vengeance	997.90 - 1179.34 kg (1900 - 2600 lb.)	5.2 - 6.1 m (17 - 20 ft.)	69.20 - 91.73 km/h (43 - 57 MPH)	48-16318A46 (RH) 48-16319A46 (LH)
14.25	21	3	Black Max Aluminum	997.90 - 1179.34 kg (1900 - 2600 lb.)	5.2 - 6.1 m (17 - 20 ft.)	65.98 - 88.51 km/h (41 - 55 MPH)	48-832832A45
14.00	20	4	Alpha 4 Aluminum	907.18 - 1270.06 kg (2000 - 2800 lb.)	5.5 - 6.4 m (18 - 21 ft.)	64.37 - 85.30 km/h (40 - 53 MPH)	48-834854A45 (RH) 48-834855A45 (LH)
14.62	19	3	Tempest Plus	952.54 - 1360.78 kg (2100 - 3000 lb.)	5.5 - 6.4 m (18 - 21 ft.)	61.16 - 82.08 km/h (38 - 51 MPH)	48-825860A47 (RH) 48-825861A47 (LH)
15.25	19	3	Mirage Plus	952.54 - 1360.78 kg (2100 - 3000 lb.)	5.5 - 6.4 m (18 - 21 ft.)	61.16 - 82.08 km/h (38 - 51 MPH)	48-13700A46 (RH) 48-13701A46 (LH)
13.25	19	5	HighFive	952.54 - 1360.78 kg (2100 - 3000 lb.)	5.5 - 6.4 m (18 - 21 ft.)	61.16 - 82.08 km/h (38 - 51 MPH)	48-815758A46
14.00	19	4	VenSura	952.54 - 1360.78 kg (2100 - 3000 lb.)	5.5 - 6.4 m (18 - 21 ft.)	61.16 - 82.08 km/h (38 - 51 MPH)	48-825900A48 (RH) 48-825901A48 (LH)
14.00	19	3	Vengeance	952.54 - 1360.78 kg (2100 - 3000 lb.)	5.5 - 6.4 m (18 - 21 ft.)	61.16 - 82.08 km/h (38 - 51 MPH)	48-16316A46 (RH) 48-16317A46 (LH)
14.50	19	3	Black Max Aluminum	952.54 - 1360.78 kg (2100 - 3000 lb.)	5.5 - 6.4 m (18 - 21 ft.)	59.55 - 80.47 km/h (37 - 50 MPH)	48-832830A45
15.38	18	3	Mirage Plus	1043.26 - 1496.86 kg (2300 - 3300 lb.)	5.8 - 6.7 m (19 - 22 ft.)	56.33 - 77.25 km/h (35 - 48 MPH)	48-889620A46 (RH) 48-889619A46 (LH)
14.50	18	4	Alpha 4 Aluminum	1043.26 - 1496.86 kg (2300 - 3300 lb.)	5.8 - 6.7 m (19 - 22 ft.)	56.33 - 77.25 km/h (35 - 48 MPH)	48-834852A45 (RH) 48-834853A45 (LH)

Diameter	Pitch	No. of Blades	Model	Approx. Gross Boat Wgt.	Approx. Boat Length	Speed Range	Propeller Part Number
15.50	17	3	Mirage Plus	1088.62 - 1632.93 kg (2400 - 3600 lb.)	5.8 - 7.0 m (19 - 23 ft.)	51.50 - 74.03 km/h (32 - 46 MPH)	48-18278A46 (RH) 48-90159A46 (LH)
13.50	17	5	HighFive	1088.62 - 1632.93 kg (2400 - 3600 lb.)	5.8 - 7.0 m (19 - 23 ft.)	51.50 - 74.03 km/h (32 - 46 MPH)	48-821154A46
14.25	17	4	VenSura	1088.62 - 1632.93 kg (2400 - 3600 lb.)	5.8 - 7.0 m (19 - 23 ft.)	51.50 - 74.03 km/h (32 - 46 MPH)	48-825898A48 (RH) 48-825899A48 (LH)
14.50	17	3	Vengeance	1088.62 - 1632.93 kg (2400 - 3600 lb.)	5.8 - 7.0 m (19 - 23 ft.)	51.50 - 74.03 km/h (32 - 46 MPH)	48-16314A46 (RH) 48-16315A46 (LH)
15.00	17	3	Black Max Aluminum	1088.62 - 1632.93 kg (2400 - 3600 lb.)	5.8 - 7.0 m (19 - 23 ft.)	49.89 - 72.42 km/h (31 - 45 MPH)	48-832828A45
15.00	16	4	Alpha 4 Aluminum	1179.34 - 1859.73 kg (2600 - 4100 lb.)	6.1 - 7.3 m (20 - 24 ft.)	46.67 - 69.20 km/h (29 - 43 MPH)	48-834850A45 (RH) 48-834851A45 (LH)
15.75	15	3	Mirage Plus	1270.06 - 2177.24 kg (2800 - 4800 lb.)	6.4 - 7.6 m (21 - 25 ft.)	40.23 - 64.37 km/h (25 - 40 MPH)	48-19838A46 (RH) 48-19841A46 (LH)
14.62	15	4	Revolution 4	1270.06 - 2177.24 kg (2800 - 4800 lb.)	6.4 - 7.6 m (21 - 25 ft.)	40.23 - 64.37 km/h (25 - 40 MPH)	48-857022A46
15.25	15	3	Black Max	1270.06 - 2177.24 kg (2800 - 4800 lb.)	6.4 - 7.6 m (21 - 25 ft.)	40.23 - 64.37 km/h (25 - 40 MPH)	48-78116A45
16.00	13	3	Mirage Plus	1587.57 - 2948.35 kg (3500 - 6500 lb.)	6.7 - 7.9 m (22 - 26 ft.)	30.58 - 53.11 km/h (19 - 33 MPH)	48-826072A46
16.00	13	3	Black Max Aluminum	1587.57 - 2948.35 kg (3500 - 6500 lb.)	6.7 - 7.9 m (22 - 26 ft.)	30.58 - 53.11 km/h (19 - 33 MPH)	48-78114A45
16.00	12	3	Black Max Aluminum	2267.96 + kg (5000 + lb.)	Pontoon/Work	25.75 - 43.45 km/h (16 - 27 MPH)	48-16436A45
16.00	11	3	Black Max Aluminum	2721.55 + kg (6000 + lb.)	Workboat	1.61 - 46.67 km/h (1 - 29 MPH)	48-78112A45 (RH) 48-78117A40 (LH)

## 150 Verado 4-Stroke Propeller Information Chart

- Wide Open Throttle RPM: 5800 - 6400
- Recommended Transom Height: 50.8 cm (20 in.), 63.5 cm (25 in.), 76.2 cm (30 in.)
- Gear Reduction: 2.08:1
- Right Hand Rotation (RH) Standard, Left Hand Rotation (LH)

Diameter	Pitch	No. of Blades	Model	Approx. Gross Boat Wgt.	Approx. Boat Length	Speed Range	Propeller Part Number
13.75	26	4	Trophy Plus	Up to 861.83 kg (1900 lb.)	Up to 5.8 m (19 ft.)	101.39 - 114.26 km/h (63 - 71 MPH)	48-825944A47
14.62	26	3	Tempest Plus	Up to 861.83 kg (1900 lb.)	Up to 5.8 m (19 ft.)	101.39 - 114.26 km/h (63 - 71 MPH)	48-825874A47

**Master Specifications**

Diameter	Pitch	No. of Blades	Model	Approx. Gross Boat Wgt.	Approx. Boat Length	Speed Range	Propeller Part Number
13.75	25	4	Trophy Plus	771.11 - 907.18 kg (1700 - 2000 lb.)	5.2 - 5.8 m (17 - 19 ft.)	98.17 - 109.44 km/h (61 - 68 MPH)	48-825942A47
14.62	25	3	Tempest Plus	771.11 - 907.18 kg (1700 - 2000 lb.)	5.2 - 5.8 m (17 - 19 ft.)	98.17 - 109.44 km/h (61 - 68 MPH)	48-825866A47
13.25	25	5	HighFive	771.11 - 907.18 kg (1700 - 2000 lb.)	5.2 - 5.8 m (17 - 19 ft.)	98.17 - 109.44 km/h (61 - 68 MPH)	48-816374A46
13.75	25	3	Laser II	771.11 - 907.18 kg (1700 - 2000 lb.)	5.2 - 5.8 m (17 - 19 ft.)	98.17 - 109.44 km/h (61 - 68 MPH)	48-16550A46 (RH) 48-16549A46 (LH)
13.75	24	4	Trophy Plus	816.47 - 952.54 kg (1800 - 2100 lb.)	5.5 - 6.1 m (18 - 20 ft.)	93.34 - 104.61 km/h (58 - 65 MPH)	48-825940A47
14.62	24	3	Tempest Plus	816.47 - 952.54 kg (1800 - 2100 lb.)	5.5 - 6.1 m (18 - 20 ft.)	93.34 - 104.61 km/h (58 - 65 MPH)	48-825872A47
13.75	23	4	Trophy Plus	861.83 - 952.54 kg (1900 - 2100 lb.)	5.5 - 6.1 m (18 - 20 ft.)	90.12 - 99.78 km/h (56 - 62 MPH)	48-825938A47
14.62	23	3	Tempest Plus	861.83 - 952.54 kg (1900 - 2100 lb.)	5.5 - 6.1 m (18 - 20 ft.)	90.12 - 99.78 km/h (56 - 62 MPH)	48-825864A47 (RH) 48-825865A47 (LH)
13.25	23	5	HighFive	861.83 - 952.54 kg (1900 - 2100 lb.)	5.5 - 6.1 m (18 - 20 ft.)	90.12 - 99.78 km/h (56 - 62 MPH)	48-815762A46
14.00	23	4	VenSura	861.83 - 952.54 kg (1900 - 2100 lb.)	5.5 - 6.1 m (18 - 20 ft.)	90.12 - 99.78 km/h (56 - 62 MPH)	48-825906A48 (RH) 48-825907A48 (LH)
13.50	23	3	Vengeance	861.83 - 952.54 kg (1900 - 2100 lb.)	5.5 - 6.1 m (18 - 20 ft.)	90.12 - 99.78 km/h (56 - 62 MPH)	48-16320A46 (RH) 48-16321A46 (LH)
13.75	23	3	Laser II	861.83 - 952.54 kg (1900 - 2100 lb.)	5.5 - 6.1 m (18 - 20 ft.)	90.12 - 99.78 km/h (56 - 62 MPH)	48-16548A46 (RH) 48-16547A46 (LH)
14.00	23	3	Black Max Aluminum	861.83 - 952.54 kg (1900 - 2100 lb.)	5.5 - 6.1 m (18 - 20 ft.)	86.90 - 96.56 km/h (54 - 60 MPH)	48-832834A45
13.75	21	4	Trophy Plus	952.54 - 1088.62 kg (2100 - 2400 lb.)	5.5 - 6.4 m (18 - 21 ft.)	80.47 - 91.73 km/h (50 - 57 MPH)	48-825934A47
14.62	21	3	Tempest Plus	952.54 - 1088.62 kg (2100 - 2400 lb.)	5.5 - 6.4 m (18 - 21 ft.)	80.47 - 91.73 km/h (50 - 57 MPH)	48-825862A47 (RH) 48-825863A47 (LH)
14.75	21	3	Mirage Plus	952.54 - 1088.62 kg (2100 - 2400 lb.)	5.5 - 6.4 m (18 - 21 ft.)	80.47 - 91.73 km/h (50 - 57 MPH)	48-13702A46 (RH) 48-13703A46 (LH)
13.25	21	5	HighFive	952.54 - 1088.62 kg (2100 - 2400 lb.)	5.5 - 6.4 m (18 - 21 ft.)	80.47 - 91.73 km/h (50 - 57 MPH)	48-815760A46
14.00	21	4	VenSura	952.54 - 1088.62 kg (2100 - 2400 lb.)	5.5 - 6.4 m (18 - 21 ft.)	80.47 - 91.73 km/h (50 - 57 MPH)	48-825902A48 (RH) 48-825903A48 (LH)

Diameter	Pitch	No. of Blades	Model	Approx. Gross Boat Wgt.	Approx. Boat Length	Speed Range	Propeller Part Number
13.75	21	3	Vengeance	952.54 - 1088.62 kg (2100 - 2400 lb.)	5.5 - 6.4 m (18 - 21 ft.)	80.47 - 91.73 km/h (50 - 57 MPH)	48-16318A46 (RH) 48-16319A46 (LH)
14.25	21	3	Black Max Aluminum	952.54 - 1088.62 kg (2100 - 2400 lb.)	5.5 - 6.4 m (18 - 21 ft.)	77.25 - 88.51 km/h (48 - 55 MPH)	48-832832A45
14.00	20	4	Alpha 4 Aluminum	997.90 - 1179.34 kg (2200 - 2600 lb.)	5.8 - 6.7 m (19 - 22 ft.)	74.03 - 85.30 km/h (46 - 53 MPH)	48-834854A45 (RH) 48-834855A45 (LH)
14.62	19	3	Tempest Plus	1088.62 - 1270.06 kg (2400 - 2800 lb.)	5.8 - 6.7 m (19 - 22 ft.)	70.81 - 82.08 km/h (44 - 51 MPH)	48-825860A47 (RH) 48-825861A47 (LH)
15.25	19	3	Mirage Plus	1088.62 - 1270.06 kg (2400 - 2800 lb.)	5.8 - 6.7 m (19 - 22 ft.)	70.81 - 82.08 km/h (44 - 51 MPH)	48-13700A46 (RH) 48-13701A46 (LH)
13.25	19	5	HighFive	1088.62 - 1270.06 kg (2400 - 2800 lb.)	5.8 - 6.7 m (19 - 22 ft.)	70.81 - 82.08 km/h (44 - 51 MPH)	48-815758A46
14.00	19	4	VenSura	1088.62 - 1270.06 kg (2400 - 2800 lb.)	5.8 - 6.7 m (19 - 22 ft.)	70.81 - 82.08 km/h (44 - 51 MPH)	48-825900A48 (RH) 48-825901A48 (LH)
14.00	19	3	Vengeance	1088.62 - 1270.06 kg (2400 - 2800 lb.)	5.8 - 6.7 m (19 - 22 ft.)	70.81 - 82.08 km/h (44 - 51 MPH)	48-16316A46 (RH) 48-16317A46 (LH)
14.50	19	3	Black Max Aluminum	1088.62 - 1270.06 kg (2400 - 2800 lb.)	5.8 - 6.7 m (19 - 22 ft.)	70.81 - 82.08 km/h (44 - 51 MPH)	48-832830A45
15.38	18	3	Mirage Plus	1133.98 - 1406.14 kg (2500 - 3100 lb.)	5.8 - 7.0 m (19 - 23 ft.)	65.98 - 78.86 km/h (41 - 49 MPH)	48-889620A46 (RH) 48-889619A46 (LH)
14.50	18	4	Alpha 4 Aluminum	1133.98 - 1406.14 kg (2500 - 3100 lb.)	5.8 - 7.0 m (19 - 23 ft.)	65.98 - 78.86 km/h (41 - 49 MPH)	48-834852A45 (RH) 48-834853A45 (LH)
15.50	17	3	Mirage Plus	1224.70 - 1496.86 kg (2700 - 3300 lb.)	5.8 - 7.0 m (19 - 23 ft.)	61.16 - 74.03 km/h (38 - 46 MPH)	48-18278A46 (RH) 48-90159A46 (LH)
13.50	17	5	HighFive	1224.70 - 1496.86 kg (2700 - 3300 lb.)	5.8 - 7.0 m (19 - 23 ft.)	61.16 - 74.03 km/h (38 - 46 MPH)	48-821154A46
14.25	17	4	VenSura	1224.70 - 1496.86 kg (2700 - 3300 lb.)	5.8 - 7.0 m (19 - 23 ft.)	61.16 - 74.03 km/h (38 - 46 MPH)	48-825898A48 (RH) 48-825899A48 (LH)
14.50	17	3	Vengeance	1224.70 - 1496.86 kg (2700 - 3300 lb.)	5.8 - 7.0 m (19 - 23 ft.)	61.16 - 74.03 km/h (38 - 46 MPH)	48-16314A46 (RH) 48-16315A46 (LH)
15.00	17	3	Black Max Aluminum	1224.70 - 1496.86 kg (2700 - 3300 lb.)	5.8 - 7.0 m (19 - 23 ft.)	61.16 - 74.03 km/h (38 - 46 MPH)	48-832828A45

## Master Specifications

Diameter	Pitch	No. of Blades	Model	Approx. Gross Boat Wgt.	Approx. Boat Length	Speed Range	Propeller Part Number
15.00	16	4	Alpha 4 Aluminum	1315.42 - 1723.65 kg (2900 - 3800 lb.)	6.1 - 7.3 m (20 - 24 ft.)	56.33 - 69.20 km/h (35 - 43 MPH)	48-834850A45 (RH) 48-834851A45 (LH)
15.75	15	3	Mirage Plus	1406.14 - 1905.09 kg (3100 - 4200 lb.)	6.4 - 7.6 m (21 - 25 ft.)	49.89 - 64.37 km/h (31 - 40 MPH)	48-19838A46 (RH) 48-19841A46 (LH)
14.62	15	4	Revolution 4	1406.14 - 1905.09 kg (3100 - 4200 lb.)	6.4 - 7.6 m (21 - 25 ft.)	49.89 - 64.37 km/h (31 - 40 MPH)	48-857022A46
15.25	15	3	Black Max	1406.14 - 1905.09 kg (3100 - 4200 lb.)	6.4 - 7.6 m (21 - 25 ft.)	49.89 - 64.37 km/h (31 - 40 MPH)	48-78116A45
16.00	13	3	Mirage Plus	1769.01 - 2540.12 kg (3900 - 5600 lb.)	6.7 - 7.9 m (22 - 26 ft.)	38.62 - 54.72 km/h (24 - 34 MPH)	48-826072A46
16.00	13	3	Black Max Aluminum	1769.01 - 2540.12 kg (3900 - 5600 lb.)	6.7 - 7.9 m (22 - 26 ft.)	38.62 - 54.72 km/h (24 - 34 MPH)	48-78114A45
16.00	12	3	Black Max Aluminum	2267.96 + kg (5000 + lb.)	Pontoon/Work	25.75 - 43.45 km/h (16 - 27 MPH)	48-16436A45
16.00	11	3	Black Max Aluminum	3175.15 + kg (7000 + lb.)	Workboat	1.61 - 46.67 km/h (1 - 29 MPH)	48-78112A45 (RH) 48-78117A40 (LH)

## 175 Verado 4-Stroke Propeller Information Chart

- Wide Open Throttle RPM: 5800 - 6400
- Recommended Transom Height: 50.8 cm (20 in.), 63.5 cm (25 in.), 76.2 cm (30 in.)
- Gear Reduction: 2.08:1
- Right Hand Rotation (RH) Standard, Left Hand Rotation (LH)

Diameter	Pitch	No. of Blades	Model	Approx. Gross Boat Wgt.	Approx. Boat Length	Speed Range	Propeller Part Number
13.75	27	4	Trophy Plus	Up to 952.54 kg (2100 lb.)	Up to 5.5 m (18 ft.)	106.22 - 119.09 km/h (66 - 74 MPH)	48-825946A47
14.62	27	3	Tempest Plus	Up to 952.54 kg (2100 lb.)	Up to 5.5 m (18 ft.)	106.22 - 119.09 km/h (66 - 74 MPH)	48-825868A47
13.75	26	4	Trophy Plus	861.83 - 997.90 kg (1900 - 2200 lb.)	Up to 5.8 m (19 ft.)	101.39 - 114.26 km/h (63 - 71 MPH)	48-825944A47
14.62	26	3	Tempest Plus	861.83 - 997.90 kg (1900 - 2200 lb.)	Up to 5.8 m (19 ft.)	101.39 - 114.26 km/h (63 - 71 MPH)	48-825874A47
13.75	25	4	Trophy Plus	907.18 - 1043.26 kg (2000 - 2300 lb.)	5.2 - 6.1 m (17 - 20 ft.)	98.17 - 109.44 km/h (61 - 68 MPH)	48-825942A47
14.62	25	3	Tempest Plus	907.18 - 1043.26 kg (2000 - 2300 lb.)	5.2 - 6.1 m (17 - 20 ft.)	98.17 - 109.44 km/h (61 - 68 MPH)	48-825866A47
13.75	24	4	Trophy Plus	952.54 - 1088.62 kg (2100 - 2400 lb.)	5.5 - 6.1 m (18 - 20 ft.)	93.34 - 104.61 km/h (58 - 65 MPH)	48-825940A47
14.62	24	3	Tempest Plus	952.54 - 1088.62 kg (2100 - 2400 lb.)	5.5 - 6.1 m (18 - 20 ft.)	93.34 - 104.61 km/h (58 - 65 MPH)	48-825872A47
13.75	23	4	Trophy Plus	997.90 - 1133.98 kg (2200 - 2500 lb.)	5.8 - 6.4 m (19 - 21 ft.)	90.12 - 99.78 km/h (56 - 62 MPH)	48-825938A47



Diameter	Pitch	No. of Blades	Model	Approx. Gross Boat Wgt.	Approx. Boat Length	Speed Range	Propeller Part Number
14.62	23	3	Tempest Plus	997.90 - 1133.98 kg (2200 - 2500 lb.)	5.8 - 6.4 m (19 - 21 ft.)	90.12 - 99.78 km/h (56 - 62 MPH)	48-825864A47 (RH) 48-825865A47 (LH)
13.25	23	5	HighFive	997.90 - 1133.98 kg (2200 - 2500 lb.)	5.8 - 6.4 m (19 - 21 ft.)	90.12 - 99.78 km/h (56 - 62 MPH)	48-815762A46
14.00	23	4	VenSura	997.90 - 1133.98 kg (2200 - 2500 lb.)	5.8 - 6.4 m (19 - 21 ft.)	90.12 - 99.78 km/h (56 - 62 MPH)	48-825906A48 (RH) 48-825907A48 (LH)
13.50	23	3	Vengeance	997.90 - 1133.98 kg (2200 - 2500 lb.)	5.8 - 6.4 m (19 - 21 ft.)	90.12 - 99.78 km/h (56 - 62 MPH)	48-16320A46 (RH) 48-16321A46 (LH)
14.00	23	3	Black Max Aluminum	997.90 - 1133.98 kg (2200 - 2500 lb.)	5.8 - 6.4 m (19 - 21 ft.)	86.90 - 96.56 km/h (54 - 60 MPH)	48-832834A45
13.75	21	4	Trophy Plus	1133.98 - 1270.06 kg (2500 - 2800 lb.)	5.8 - 6.7 m (19 - 22 ft.)	80.47 - 91.73 km/h (50 - 57 MPH)	48-825934A47
14.62	21	3	Tempest Plus	1133.98 - 1270.06 kg (2500 - 2800 lb.)	5.8 - 6.7 m (19 - 22 ft.)	80.47 - 91.73 km/h (50 - 57 MPH)	48-825862A47 (RH) 48-825863A47 (LH)
14.75	21	3	Mirage Plus	1133.98 - 1270.06 kg (2500 - 2800 lb.)	5.8 - 6.7 m (19 - 22 ft.)	80.47 - 91.73 km/h (50 - 57 MPH)	48-13702A46 (RH) 48-13703A46 (LH)
13.25	21	5	HighFive	1133.98 - 1270.06 kg (2500 - 2800 lb.)	5.8 - 6.7 m (19 - 22 ft.)	80.47 - 91.73 km/h (50 - 57 MPH)	48-815760A46
14.00	21	4	VenSura	1133.98 - 1270.06 kg (2500 - 2800 lb.)	5.8 - 6.7 m (19 - 22 ft.)	80.47 - 91.73 km/h (50 - 57 MPH)	48-825902A48 (RH) 48-825903A48 (LH)
13.75	21	3	Vengeance	1133.98 - 1270.06 kg (2500 - 2800 lb.)	5.8 - 6.7 m (19 - 22 ft.)	80.47 - 91.73 km/h (50 - 57 MPH)	48-16318A46 (RH) 48-16319A46 (LH)
14.25	21	3	Black Max Aluminum	1133.98 - 1270.06 kg (2500 - 2800 lb.)	5.8 - 6.7 m (19 - 22 ft.)	77.25 - 88.51 km/h (48 - 55 MPH)	48-832832A45
14.00	20	4	Alpha 4 Aluminum	1179.34 - 1360.78 kg (2600 - 3000 lb.)	5.8 - 7.0 m (19 - 23 ft.)	74.03 - 85.30 km/h (46 - 53 MPH)	48-834854A45 (RH) 48-834855A45 (LH)
14.62	19	3	Tempest Plus	1270.06 - 1496.86 kg (2800 - 3300 lb.)	6.1 - 7.0 m (20 - 23 ft.)	70.81 - 82.08 km/h (44 - 51 MPH)	48-825860A47 (RH) 48-825861A47 (LH)
15.25	19	3	Mirage Plus	1270.06 - 1496.86 kg (2800 - 3300 lb.)	6.1 - 7.0 m (20 - 23 ft.)	70.81 - 82.08 km/h (44 - 51 MPH)	48-13700A46 (RH) 48-13701A46 (LH)
13.25	19	5	HighFive	1270.06 - 1496.86 kg (2800 - 3300 lb.)	6.1 - 7.0 m (20 - 23 ft.)	70.81 - 82.08 km/h (44 - 51 MPH)	48-815758A46



**Master Specifications**

Diameter	Pitch	No. of Blades	Model	Approx. Gross Boat Wgt.	Approx. Boat Length	Speed Range	Propeller Part Number
14.00	19	4	VenSura	1270.06 - 1496.86 kg (2800 - 3300 lb.)	6.1 - 7.0 m (20 - 23 ft.)	70.81 - 82.08 km/h (44 - 51 MPH)	48-825900A48 (RH) 48-825901A48 (LH)
14.00	19	3	Vengeance	1270.06 - 1496.86 kg (2800 - 3300 lb.)	6.1 - 7.0 m (20 - 23 ft.)	70.81 - 82.08 km/h (44 - 51 MPH)	48-16316A46 (RH) 48-16317A46 (LH)
14.50	19	3	Black Max Aluminum	1270.06 - 1496.86 kg (2800 - 3300 lb.)	6.1 - 7.0 m (20 - 23 ft.)	70.81 - 82.08 km/h (44 - 51 MPH)	48-832830A45
15.38	18	3	Mirage Plus	1315.42 - 1632.93 kg (2900 - 3600 lb.)	6.1 - 7.0 m (20 - 23 ft.)	65.98 - 78.86 km/h (41 - 49 MPH)	48-889620A46 (RH) 48-889619A46 (LH)
14.50	18	4	Alpha 4 Aluminum	1315.42 - 1632.93 kg (2900 - 3600 lb.)	6.1 - 7.0 m (20 - 23 ft.)	65.98 - 78.86 km/h (41 - 49 MPH)	48-834852A45 (RH) 48-834853A45 (LH)
15.50	17	3	Mirage Plus	1406.14 - 1769.01 kg (3100 - 3900 lb.)	6.4 - 7.3 m (21 - 24 ft.)	61.16 - 74.03 km/h (38 - 46 MPH)	48-18278A46 (RH) 48-90159A46 (LH)
13.50	17	5	HighFive	1406.14 - 1769.01 kg (3100 - 3900 lb.)	6.4 - 7.3 m (21 - 24 ft.)	61.16 - 74.03 km/h (38 - 46 MPH)	48-821154A46
14.25	17	4	VenSura	1406.14 - 1769.01 kg (3100 - 3900 lb.)	6.4 - 7.3 m (21 - 24 ft.)	61.16 - 74.03 km/h (38 - 46 MPH)	48-825898A48 (RH) 48-825899A48 (LH)
14.50	17	3	Vengeance	1406.14 - 1769.01 kg (3100 - 3900 lb.)	6.4 - 7.3 m (21 - 24 ft.)	61.16 - 74.03 km/h (38 - 46 MPH)	48-16314A46 (RH) 48-16315A46 (LH)
15.00	17	3	Black Max Aluminum	1406.14 - 1769.01 kg (3100 - 3900 lb.)	6.4 - 7.3 m (21 - 24 ft.)	61.16 - 74.03 km/h (38 - 46 MPH)	48-832828A45
15.00	16	4	Alpha 4 Aluminum	1542.21 - 2041.17 kg (3400 - 4500 lb.)	6.4 - 7.6 m (21 - 25 ft.)	56.33 - 69.20 km/h (35 - 43 MPH)	48-834850A45 (RH) 48-834851A45 (LH)
15.75	15	3	Mirage Plus	1406.14 - 2222.6 kg (3700 - 4900 lb.)	6.7 - 7.9 m (22 - 26 ft.)	49.89 - 64.37 km/h (31 - 40 MPH)	48-19838A46 (RH) 48-19841A46 (LH)
14.62	15	4	Revolution 4	1406.14 - 2222.6 kg (3700 - 4900 lb.)	6.7 - 7.9 m (22 - 26 ft.)	49.89 - 64.37 km/h (31 - 40 MPH)	48-857022A46
15.25	15	3	Black Max	1406.14 - 2222.6 kg (3700 - 4900 lb.)	6.7 - 7.9 m (22 - 26 ft.)	49.89 - 64.37 km/h (31 - 40 MPH)	48-78116A45
16.00	13	3	Mirage Plus	1859.7 - 2630.8 kg (4100 - 5800 lb.)	6.7 - 7.9 m (22 - 26 ft.)	38.62 - 54.72 km/h (24 - 34 MPH)	48-826072A46
16.00	13	3	Black Max Aluminum	2041.1 + kg (4500 + lb.)	Pontoon	38.62 - 54.72 km/h (24 - 34 MPH)	48-78114A45
16.00	12	3	Black Max Aluminum	2721.5 + kg (6000 + lb.)	Pontoon/Work	25.75 - 43.45 km/h (16 - 27 MPH)	48-16436A45

Diameter	Pitch	No. of Blades	Model	Approx. Gross Boat Wgt.	Approx. Boat Length	Speed Range	Propeller Part Number
16.00	11	3	Black Max Aluminum	3628.7 + kg (8000 + lb.)	Workboat	1.61 - 46.67 km/h (1 - 29 MPH)	48-78112A45 (RH) 48-78117A40 (LH)