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Important Information

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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 service 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.

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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A**

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200/225/250/275 Verado Master Specifications

General Specifications

Model Specifications	
Kilowatts (Horsepower)	149 kw (200 HP) 168 kw (225 HP) 186 kw (250 HP) 205 kw (275 HP)
Weight	
50.8 cm (20 in.)	293 kg (645 lbs.)
63.5 cm (25 in.)	299 kg (659 lbs.)
76.2 cm (30 in.)	307 kg (677 lbs.)
Displacement (All Hp)	2.6L (158.5 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	7 Liters (7.4 qts.)
Engine Control System	SmartCraft PCM 03 Digital Throttle and Shift (DTS)
Trim System	SmartCraft programmable
Maximum Tilt Range	73° (-6° to 67°)
Maximum Trim Range	20° (-6° to 14°)
Steering System	Electric - Hydraulic Power Steering with integral hydraulic cylinder

Fuel System Specifications

Fuel System Specifications	
Type of fuel	
149 kw (200 hp), 168 kw (225 hp), 186 kw (250 hp)	Automotive unleaded with a minimum pump posted octane rating of 87 (90 RON)
205 kw (275 hp)	Automotive unleaded with a minimum pump posted octane rating of 91 (96 RON)
Approximate fuel pressure @ idle	279 - 289 kPa (40 - 42 psi)
Fuel filtration	
Fuel inlet water separator	2 Microns
High pressure	20 Microns

Ignition Specifications

Ignition Specifications	
Full Throttle RPM (All Models)	5800 - 6400
Idle RPM (All Models)	550
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	27.5 Nm (19 lb. ft.)
Spark Plug Hole Size	14 mm
Firing Order	1-3-5-6-4-2
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 ¹	
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	65.4 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.

Cylinder Head Specifications

Cylinder Head Specifications	
Maximum deck warp	0.075 mm (0.003)
Number of valves	24
Number of valves per cylinder	4
Number of cams	2
Cam bearing journal (intake and exhaust)	28.95 mm (1.1398 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)
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 - 6.016mm (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.)

Cylinder Block/Crankcase Specifications

Cylinder Block/Crankcase Specifications	
Number of cylinders	6
Displacement	2.6 Liters (158.6 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 - 50.0 mm (1.9678 - 1.968 in.)
Crankshaft end play	0.08 - 0.19 mm 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	1.25 mm (0.049 in.)
Third ring groove width	2.05 mm (0.081 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)
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.)

Power Trim Specifications

Power Trim Specifications	
Trim up circuit pressure, maximum	18,270 - 28,960 kPa (2650 - 4200 psi)
Trim down circuit pressure	1255 - 2765 kPa (182 - 401 psi)
System fluid	Power Trim and Steering Fluid or Automatic Transmission Fluid (ATF) (Type Dexron III)

Oil System Specifications

Oil System Specifications	
Engine Capacity Wet	7 liters (7.4 qts.)
Engine Capacity Dry	8 liters (8.4 qts.)
Oil Filter Part Number	35-883701K01
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)

Gear Housing Specifications (Standard Rotation)

Gear Housing Specifications (Standard Rotation)	
Gear Ratio	1.85:1 (13/24 Teeth)
Gearcase Capacity	970 ml (32.8 fl.oz.)
Gear Lubricant Type	Premium Gear Lubricant
Pinion Height	0.635 mm (0.025 in.)
Forward Gear Backlash	0.482 - 0.660 mm (0.019 - 0.026 in.)
Reverse Gear Backlash	1.27 - 1.47 mm (0.050 - 0.058 in.)
Water Pressure @ RPM	55 - 68.9 kPa (8 - 10 psi)
Gear Housing Pressure (without gear lubricant, 5 minutes without leakage)	103.4 kPa (15 psi)

Gear Housing Specifications (Counter Rotation)

Gear Housing Specifications (Counter Rotation)	
Gear Ratio	1.85:1 (13/24 Teeth)
Gearcase Capacity	970 ml (32.8 fl.oz.)
Gear Lubricant Type	Premium Gear Lubricant
Pinion Height	0.635 mm (0.025 in.)
Forward Gear Backlash	0.482 - 0.660 mm (0.019 - 0.026 in.)
Reverse Gear Backlash	1.27 - 1.47 mm (0.050 - 0.058 in.)
Water Pressure @ RPM	55 - 68.9 kPa (8 - 10 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	Shall not exceed 75 Amps
Steering Ratio (40 cc helm and single steering cylinder, lock to lock)	4.1 turns
Steering Ratio (50 cc helm with dual steering cylinders, lock to lock)	6.5 turns

Propeller Chart

Mercury/Mariner 200 (6 Cyl., 4 Stroke)

- 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: 1.85:1
- Right Hand Rotation (RH), 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 lbs.)	Up to 6.4 m (21 ft.)	120.70 - 136.8 km (75 - 85 MPH)	48-825946A47
14.62	27	3	Tempest Plus	Up to 952.54 Kg (2100 lbs.)	Up to 6.4 m (21 ft.)	120.70 - 136.8 km (75 - 85 MPH)	48-825868A47
15.25	26	4	Bravo 1	861.83 - 997.7 Kg (1900-2200 lbs.)	6.4 - 7.0 m (21 - 23 ft.)	115.87 - 130.4 km (72 - 81 MPH)	48-831914A45 (RH) 48-831913A45 (LH)
13.75	26	4	Trophy Plus	861.83 - 997.7 Kg (1900-2200 lbs.)	6.4 - 7.0 m (21 - 23 ft.)	115.87 - 130.4 km (72 - 81 MPH)	48-825944A47
14.62	26	3	Tempest Plus	861.83 - 997.7 Kg (1900-2200 lbs.)	6.4 - 7.0 m (21 - 23 ft.)	115.87 - 130.4 km (72 - 81 MPH)	48-825874A47
14.50	25	3	Mirage Plus	907.18 - 1043.26 Kg (2000-2300 lbs.)	6.4 - 7.0 m (21 - 23 ft.)	111.04 - 125.53 km (69 - 78 MPH)	48-13706A46 (RH) 48-13707A46 (LH)
13.75	25	4	Trophy Plus	907.18 - 1043.26 Kg (2000-2300 lbs.)	6.4 - 7.0 m (21 - 23 ft.)	111.04 - 125.53 km (69 - 78 MPH)	48-825942A47
14.62	25	3	Tempest Plus	907.18 - 1043.26 Kg (2000-2300 lbs.)	6.4 - 7.0 m (21 - 23 ft.)	111.04 - 125.53 km (69 - 78 MPH)	48-825866A47
15.25	24	4	Bravo I	952.54 - 1088.62 Kg (2100-2400 lbs.)	6.7 - 7.3 m (22 - 24 ft.)	106.22 - 119.09 km (66 - 74 MPH)	48-831912A45 (RH) 48-831911A45 (LH)
13.75	24	4	Trophy Plus	952.54 - 1088.62 Kg (2100-2400 lbs.)	6.7 - 7.3 m (22 - 24 ft.)	106.22 - 119.09 km (66 - 74 MPH)	48-825940A47
14.62	24	3	Tempest Plus	952.54 - 1088.62 Kg (2100-2400 lbs.)	6.7 - 7.3 m (22 - 24 ft.)	106.22 - 119.09 km (66 - 74 MPH)	48-825872A47
14.62	23	4	Revolution 4	997.90 - 1133.98 Kg (2200-2500 lbs.)	6.7 - 7.3 m (22 - 24 ft.)	101.39 - 114.26 km (63 - 71 MPH)	48-857030A46 (RH) 48-857031A46 (LH)
13.75	23	4	Trophy Plus	997.90 - 1133.98 Kg (2200-2500 lbs.)	6.7 - 7.3 m (22 - 24 ft.)	101.39 - 114.26 km (63 - 71 MPH)	48-825938A47
14.62	23	3	Tempest Plus	997.90 - 1133.98 Kg (2200-2500 lbs.)	6.7 - 7.3 m (22 - 24 ft.)	101.39 - 114.26 km (63 - 71 MPH)	48-825864A47
14.63	23	3	Mirage Plus	997.90 - 1133.98 Kg (2200-2500 lbs.)	6.7 - 7.3 m (22 - 24 ft.)	101.39 - 114.26 km (63 - 71 MPH)	48-13704A46 (RH) 48-13705A46 (LH)
13.25	23	5	High Five	997.90 - 1133.98 Kg (2200-2500 lbs.)	6.7 - 7.3 m (22 - 24 ft.)	101.39 - 114.26 km (63 - 71 MPH)	48-815762A46

Master Specifications

Diameter	Pitch	No. of Blades	Model	Approx. Gross Boat Wgt.	Approx. Boat Length	Speed Range	Propeller Part Number
14.00	23	4	VenSura	997.90 - 1133.98 Kg (2200-2500 lbs.)	6.7 - 7.3 m (22 - 24 ft.)	101.39 - 114.26 km (63 - 71 MPH)	48-825906A48 (RH) 48-825907A48 (LH)
13.75	21	4	Trophy Plus	1133.98 - 1270.06 Kg (2500-2800 lbs.)	6.7 - 7.3 m (22 - 24 ft.)	91.73 - 103.0 km (57 - 64 MPH)	48-825934A47
14.62	21	3	Tempest Plus	1133.98 - 1270.06 Kg (2500-2800 lbs.)	6.7 - 7.3 m (22 - 24 ft.)	91.73 - 103.0 km (57 - 64 MPH)	48-825862A47
14.75	21	3	Mirage Plus	1133.98 - 1270.06 Kg (2500-2800 lbs.)	6.7 - 7.3 m (22 - 24 ft.)	91.73 - 103.0 km (57 - 64 MPH)	48-13702A46 (RH) 48-13703A46 (LH)
13.25	21	5	High Five	1133.98 - 1270.06 Kg (2500-2800 lbs.)	6.7 - 7.3 m (22 - 24 ft.)	91.73 - 103.0 km (57 - 64 MPH)	48-815760A46
14.00	21	4	VenSura	1133.98 - 1270.06 Kg (2500-2800 lbs.)	6.7 - 7.3 m (22 - 24 ft.)	91.73 - 103.0 km (57 - 64 MPH)	48-825902A48 (RH) 48-825903A48 (LH)
14.62	19	3	Tempest Plus	1270.06 - 1451.50 Kg (2800-3200 lbs.)	6.7 - 7.6 m (22 - 25 ft.)	82.08 - 93.34 km (51 - 58 MPH)	48-825860A47
15.25	19	3	Mirage Plus	1270.06 - 1451.50 Kg (2800-3200 lbs.)	6.7 - 7.6 m (22 - 25 ft.)	82.08 - 93.34 km (51 - 58 MPH)	48-13700A46 (RH) 48-13701A46 (LH)
13.25	19	5	High Five	1270.06 - 1451.50 Kg (2800-3200 lbs.)	6.7 - 7.6 m (22 - 25 ft.)	82.08 - 93.34 km (51 - 58 MPH)	48-815758A46
14.00	19	4	VenSura	1270.06 - 1451.50 Kg (2800-3200 lbs.)	6.7 - 7.6 m (22 - 25 ft.)	82.08 - 93.34 km (51 - 58 MPH)	48-825900A48 (RH) 48-825901A48 (LH)
15.5	17	3	Mirage Plus	1406.14 - 1678.29 Kg (3100-3700 lbs.)	6.7 - 7.9 m (22 - 26 ft.)	72.42 - 83.69 km (45 - 52 MPH)	48-18278A46 (RH) 48-90159A46 (LH)
13.5	17	5	High Five	1406.14 - 1678.29 Kg (3100-3700 lbs.)	6.7 - 7.9 m (22 - 26 ft.)	72.42 - 83.69 km (45 - 52 MPH)	48-821154A46
14.25	17	4	VenSura	1406.14 - 1678.29 Kg (3100-3700 lbs.)	6.7 - 7.9 m (22 - 26 ft.)	72.42 - 83.69 km (45 - 52 MPH)	48-825898A48 (RH) 48-825899A48 (LH)
15.75	15	3	Mirage Plus	1632.93- 1995.81 Kg (3600-4400 lbs.)	6.7 - 7.9 m (22 - 26 ft.)	61.16 - 75.64 km (38 - 47 MPH)	48-19838A46 (RH) 48-19841A46 (LH)
16	13	3	Mirage Plus	1859.73- 2630.84 Kg (4100-5800 lbs.)	6.7 - 7.9 m (22 - 26 ft.)	49.89 - 64.37 km (31 - 40 MPH)	48-826072A46
16	12	3	Aluminum	2222.60- 3084.43 Kg (4900-6800 lbs.)	7.0 - 8.2 m (23 - 27 ft.)	41.84 - 56.33 km (26 - 35 MPH)	48-16436A45
16	11	3	Aluminum	2721.55+ Kg (6000+ lbs.)	Workboat	1.61 - 46.67 km (1 - 29 MPH)	48-78112A45 (RH) 48-78117A40 (LH)

Mercury/Mariner 225 (6 Cyl., 4 Stroke)

- 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: 1.85:1

- Right Hand Rotation (RH), Left Hand Rotation (LH)

Diameter	Pitch	No. of Blades	Model	Approx. Gross Boat Wgt.	Approx. Boat Length	Speed Range	Propeller Part Number
15.25	28	4	Bravo I	Up to 997.90 Kg (2200 lbs.)	Up to 6.7 m (22 ft.)	125.53-141.62 km (78-88 MPH)	48-831916A55 (RH) 48-831915A55 (LH)
13.75	28	4	Trophy Plus	Up to 997.90 Kg (2200 lbs.)	Up to 6.7 m (22 ft.)	125.53-141.62 km (78-88 MPH)	48-825948A47
13.75	27	4	Trophy Plus	907.18-1043.26 Kg (2000-2300 lbs.)	Up to 6.7 m (22 ft.)	120.70-136.8 km (75-85 MPH)	48-825946A47
14.62	27	3	Tempest Plus	907.18-1043.26 Kg (2000-2300 lbs.)	Up to 6.7 m (22 ft.)	120.70-136.8 km (75-85 MPH)	48-825868A47
15.25	26	4	Bravo I	952.54-1088.62 Kg (2100-2400 lbs.)	6.4-7.0 m (21-23 ft.)	115.87-130.4 km (72-81 MPH)	48-831914A45 (RH) 48-831913A45 (LH)
13.75	26	4	Trophy Plus	952.54-1088.62 Kg (2100-2400 lbs.)	6.4-7.0 m (21-23 ft.)	115.87-130.4 km (72-81 MPH)	48-825944A47
14.62	26	3	Tempest Plus	952.54-1088.62 Kg (2100-2400 lbs.)	6.4-7.0 m (21-23 ft.)	115.87-130.4 km (72-81 MPH)	48-825874A47
14.50	25	3	Mirage Plus	997.90-1133.98 Kg (2200-2500 lbs.)	6.4-7.0 m (21-23 ft.)	111.04-125.53 km (69-78 MPH)	48-13706A46 (RH) 48-13707A46 (LH)
13.75	25	4	Trophy Plus	997.90-1133.98 Kg (2200-2500 lbs.)	6.4-7.0 m (21-23 ft.)	111.04-125.53 km (69-78 MPH)	48-825942A47
14.62	25	3	Tempest Plus	997.90-1133.98 Kg (2200-2500 lbs.)	6.4-7.0 m (21-23 ft.)	111.04-125.53 km (69-78 MPH)	48-825866A47
15.25	24	4	Bravo I	1088.62-1224.70 Kg (2400-2700 lbs.)	6.7-7.3 m (22-24 ft.)	106.22-119.09 km (66-74 MPH)	48-831912A45 (RH) 48-831911A45 (LH)
13.75	24	4	Trophy Plus	1088.62-1224.70 Kg (2400-2700 lbs.)	6.7-7.3 m (22-24 ft.)	106.22-119.09 km (66-74 MPH)	48-825940A47
14.62	24	3	Tempest Plus	1088.62-1224.70 Kg (2400-2700 lbs.)	6.7-7.3 m (22-24 ft.)	106.22-119.09 km (66-74 MPH)	48-825872A47
14.62	23	4	Revolution 4	1133.98-1270.06 Kg (2500-2800 lbs.)	6.7-7.3 m (22-24 ft.)	101.39-114.26 km (63-71 MPH)	48-857030A46 (RH) 48-857031A46 (LH)
13.75	23	4	Trophy Plus	1133.98-1270.06 Kg (2500-2800 lbs.)	6.7-7.3 m (22-24 ft.)	101.39-114.26 km (63-71 MPH)	48-825938A47
14.62	23	3	Tempest Plus	1133.98-1270.06 Kg (2500-2800 lbs.)	6.7-7.3 m (22-24 ft.)	101.39-114.26 km (63-71 MPH)	48-825864A47
14.63	23	3	Mirage Plus	1133.98-1270.06 Kg (2500-2800 lbs.)	6.7-7.3 m (22-24 ft.)	101.39-114.26 km (63-71 MPH)	48-13704A46 (RH) 48-13705A46 (LH)
13.25	23	5	HighFive	1133.98-1270.06 Kg (2500-2800 lbs.)	6.7-7.3 m (22-24 ft.)	101.39-114.26 km (63-71 MPH)	48-815762A46
14.00	23	4	VenSura	1133.98-1270.06 Kg (2500-2800 lbs.)	6.7-7.3 m (22-24 ft.)	101.39-114.26 km (63-71 MPH)	48-825906A48 (RH) 48-825907A48 (LH)
13.75	21	4	Trophy Plus	1270.06-1451.50 Kg (2800-3200 lbs.)	6.7-7.3 m (22-24 ft.)	91.73-103.0 km (57-64 MPH)	48-825934A47

Master Specifications

Diameter	Pitch	No. of Blades	Model	Approx. Gross Boat Wgt.	Approx. Boat Length	Speed Range	Propeller Part Number
14.62	21	3	Tempest Plus	1270.06-1451.50 Kg (2800-3200 lbs.)	6.7-7.3 m (22-24 ft.)	91.73-103.0 km (57-64 MPH)	48-825862A47
14.75	21	3	Mirage Plus	1270.06-1451.50 Kg (2800-3200 lbs.)	6.7-7.3 m (22-24 ft.)	91.73-103.0 km (57-64 MPH)	48-13702A46 (RH) 48-13703A46 (LH)
13.25	21	5	HighFive	1270.06-1451.50 Kg (2800-3200 lbs.)	6.4-7.3 m (21-24 ft.)	91.73-103.0 km (57-64 MPH)	48-815760A46
14.00	21	4	VenSura	1270.06-1451.50 Kg (2800-3200 lbs.)	6.4-7.3 m (21-24 ft.)	91.73-103.0 km (57-64 MPH)	48-825902A48 (RH) 48-825903A48 (LH)
14.62	19	3	Tempest Plus	1406.14-1632.93 Kg (3100-3600 lbs.)	6.7-7.6 m (22-25 ft.)	82.08-93.34 km (51-58 MPH)	48-825860A47
15.25	19	3	Mirage Plus	1406.14-1632.93 Kg (3100-3600 lbs.)	6.7-7.6 m (22-25 ft.)	82.08-93.34 km (51-58 MPH)	48-13700A46 (RH) 48-13701A46 (LH)
13.25	19	5	HighFive	1406.14-1632.93 Kg (3100-3600 lbs.)	6.7-7.6 m (22-25 ft.)	82.08-93.34 km (51-58 MPH)	48-815758A46
14.00	19	4	VenSura	1406.14-1632.93 Kg (3100-3600 lbs.)	6.7-7.6 m (22-25 ft.)	82.08-93.34 km (51-58 MPH)	48-825900A48 (RH) 48-825901A48 (LH)
15.5	17	3	Mirage Plus	1587.57-1859.73 Kg (3500-4100 lbs.)	6.7-7.9 m (22-26 ft.)	72.42-83.69 km (45-52 MPH)	48-18278A46 (RH) 48-90159A46 (LH)
13.5	17	5	HighFive	1587.57-1859.73 Kg (3500-4100 lbs.)	6.7-7.9 m (22-26 ft.)	72.42-83.69 km (45-52 MPH)	48-821154A46
14.25	17	4	VenSura	1587.57-1859.73 Kg (3500-4100 lbs.)	6.7-7.9 m (22-26 ft.)	72.42-83.69 km (45-52 MPH)	48-825898A48 (RH) 48-825899A48 (LH)
15.75	15	3	Mirage Plus	1859.73-2494.76 Kg (4100-5500 lbs.)	7.0-8.2 m (23-27 ft.)	56.33-72.42 km (35-45 MPH)	48-19838A46 (RH) 48-19841A46 (LH)
16	13	3	Mirage Plus	2267.96 + Kg (5000 + lbs.)	7.6-9.1 m (25-30 ft.)	40.23-61.16 km (25-38 MPH)	48-825072A46

Mercury/Mariner 250 (6 Cyl., 4 Stroke)

- 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: 1.85:1
- Right Hand Rotation (RH), Left Hand Rotation (LH)

Diameter	Pitch	No. of Blades	Model	Approx. Gross Boat Wgt.	Approx. Boat Length	Speed Range	Propeller Part Number
15.25	28	4	Bravo I	Up to 1133.98 Kg (2500 lbs.)	Up to 6.7 m (22 ft.)	125.53-141.62 km (78-88 MPH)	48-831916A55 (RH) 48-831915A55 (LH)
13.75	28	4	Trophy Plus	Up to 1133.98 Kg (2500 lbs.)	Up to 6.7 m (22 ft.)	125.53-141.62 km (78-88 MPH)	48-825948A47
13.75	27	4	Trophy Plus	997.90-1179.34 Kg (2200-2600 lbs.)	Up to 6.7 m (22 ft.)	120.70-136.8 km (75-85 MPH)	48-825946A47
14.62	27	3	Tempest Plus	997.90-1179.34 (2200-2600 lbs.)	Up to 6.7 m (22 ft.)	120.70-136.8 km (75-85 MPH)	48-825868A47

Diameter	Pitch	No. of Blades	Model	Approx. Gross Boat Wgt.	Approx. Boat Length	Speed Range	Propeller Part Number
15.25	26	4	Bravo I	1088.62-1224.70 Kg (2400-2700 lbs.)	6.4-7.0 m (21-23 ft.)	115.87-130.4 km (72-81 MPH)	48-831914A45 (RH) 48-831913A45 (LH)
13.75	26	4	Trophy Plus	1088.62-1224.70 Kg (2400-2700 lbs.)	6.4-7.0 m (21-23 ft.)	115.87-130.4 km (72-81 MPH)	48-825944A47
14.62	26	3	Tempest Plus	1088.62-1224.70 Kg (2400-2700 lbs.)	6.4-7.0 m (21-23 ft.)	115.87-130.4 km (72-81 MPH)	48-825874A47
14.50	25	3	Mirage Plus	1133.98-1270.06 Kg (2500-2800 lbs.)	6.4-7.0 m (21-23 ft.)	111.04-125.53 km (69-78 MPH)	48-13706A46 (RH) 48-13707A46 (LH)
13.75	25	4	Trophy Plus	1133.98-1270.06 Kg (2500-2800 lbs.)	6.4-7.0 m (21-23 ft.)	111.04-125.53 km (69-78 MPH)	48-825942A47
14.62	25	3	Tempest Plus	1133.98-1270.06 Kg (2500-2800 lbs.)	6.4-7.0 m (21-23 ft.)	111.04-125.53 km (69-78 MPH)	48-825866A47
15.25	24	4	Bravo I	1179.34-1360.78 Kg (2600-3000 lbs.)	6.7-7.3 m (22-24 ft.)	106.22-119.09 km (66-74 MPH)	48-831912A45 (RH) 48-831911A45 (LH)
13.75	24	4	Trophy Plus	1179.34-1360.78 Kg (2600-3000 lbs.)	6.7-7.3 m (22-24 ft.)	106.22-119.09 km (66-74 MPH)	48-825940A47
14.62	24	3	Tempest Plus	1179.34-1360.78 Kg (2600-3000 lbs.)	6.7-7.3 m (22-24 ft.)	106.22-119.09 km (66-74 MPH)	48-825872A47
14.62	23	4	Revolution 4	1224.70-1406.14 Kg (2700-3100 lbs.)	6.7-7.3 m (22-24 ft.)	101.39-114.26 km (63-71 MPH)	48-857030A46 (RH) 48-857031A46 (LH)
13.75	23	4	Trophy Plus	1224.70-1406.14 Kg (2700-3100 lbs.)	6.7-7.3 m (22-24 ft.)	101.39-114.26 km (63-71 MPH)	48-825938A47
14.62	23	3	Tempest Plus	1224.70-1406.14 Kg (2700-3100 lbs.)	6.7-7.3 m (22-24 ft.)	101.39-114.26 km (63-71 MPH)	48-825864A47
14.63	23	3	Mirage Plus	1224.70-1406.14 Kg (2700-3100 lbs.)	6.7-7.3 m (22-24 ft.)	101.39-114.26 km (63-71 MPH)	48-13704A46 (RH) 48-13705A46 (LH)
13.25	23	5	HighFive	1224.70-1406.14 Kg (2700-3100 lbs.)	6.7-7.3 m (22-24 ft.)	101.39-114.26 km (63-71 MPH)	48-815762A46
14.00	23	4	VenSura	1224.70-1406.14 Kg (2700-3100 lbs.)	6.7-7.3 m (22-24 ft.)	101.39-114.26 km (63-71 MPH)	48-825906A48 (RH) 48-825907A48 (LH)
13.75	21	4	Trophy Plus	1406.14-1587.57 Kg (3100-3500 lbs.)	6.7-7.3 m (22-24 ft.)	91.73-103.0 km (57-64 MPH)	48-825934A47
14.62	21	3	Tempest Plus	1406.14-1587.57 Kg (3100-3500 lbs.)	6.7-7.3 m (22-24 ft.)	91.73-103.0 km (57-64 MPH)	48-825862A47
14.75	21	3	Mirage Plus	1406.14-1587.57 Kg (3100-3500 lbs.)	6.7-7.3 m (22-24 ft.)	91.73-103.0 km (57-64 MPH)	48-13702A46 (RH) 48-13703A46 (LH)
13.25	21	5	HighFive	1406.14-1587.57 Kg (3100-3500 lbs.)	6.4-7.3 m (21-24 ft.)	91.73-103.0 km (57-64 MPH)	48-815760A46
14.00	21	4	VenSura	1406.14-1587.57 Kg (3100-3500 lbs.)	6.4-7.3 m (21-24 ft.)	91.73-103.0 km (57-64 MPH)	48-825902A48 (RH) 48-825903A48 (LH)
14.62	19	3	Tempest Plus	1542.21-1814.37 Kg (3400-4000 lbs.)	6.7-7.6 m (22-25 ft.)	82.08-93.34 km (51-58 MPH)	48-825860A47

Master Specifications

Diameter	Pitch	No. of Blades	Model	Approx. Gross Boat Wgt.	Approx. Boat Length	Speed Range	Propeller Part Number
15.25	19	3	Mirage Plus	1542.21-1814.37 Kg (3400-4000 lbs.)	6.7-7.6 m (22-25 ft.)	82.08-93.34 km (51-58 MPH)	48-13700A46 (RH) 48-13701A46 (LH)
13.25	19	5	HighFive	1542.21-1814.37 Kg (3400-4000 lbs.)	6.7-7.6 m (22-25 ft.)	82.08-93.34 km (51-58 MPH)	48-815758A46
14.00	19	4	VenSura	1542.21-1814.37 Kg (3400-4000 lbs.)	6.7-7.6 m (22-25 ft.)	82.08-93.34 km (51-58 MPH)	48-825900A48 (RH) 48-825901A48 (LH)
15.5	17	3	Mirage Plus	1769.01-2267.96 Kg (3900-5000 lbs.)	6.7-7.9 m (22-26 ft.)	62.76-78.86 km (39-49 MPH)	48-18278A46 (RH) 48-90159A46 (LH)
13.5	17	5	HighFive	1769.01-2267.96 Kg (3900-5000 lbs.)	6.7-7.9 m (22-26 ft.)	62.76-78.86 km (39-49 MPH)	48-851154A46
14.25	17	4	VenSura	1950.45-2267.96 Kg (4300-5000 lbs.)	6.7-7.9 m (22-26 ft.)	62.76-78.86 km (39-49 MPH)	48-825898A48 (RH) 48-825899A48 (LH)
15.75	15	3	Mirage Plus	2086.53-2721.55 Kg (4600-6000 lbs.)	7.0-8.2 m (23-27 ft.)	56.33-72.42 km (35-45 MPH)	48-19838A46 (RH) 48-19841A46 (LH)
16	13	3	Mirage Plus	2494.76 + Kg (5500 + lbs.)	7.6-9.1 m (25-30 ft.)	40.23-61.16 km (25-38 MPH)	48-826072A46

Mercury/Mariner 275 (6 Cyl., 4 Stroke)

- 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: 1.85:1
- Right Hand Rotation (RH), Left Hand Rotation (LH)

Diameter	Pitch	No. of Blades	Model	Approx. Gross Boat Wgt.	Approx. Boat Length	Speed Range	Propeller Part Number
15.25	28	4	Bravo I	Up to 1224.70 Kg (2700 lbs.)	Up to 6.7 m (22 ft.)	125.53-141.62 km (78-88 MPH)	48-831916A55 (RH) 48-831915A55 (LH)
13.75	28	4	Trophy Plus	Up to 1224.70 Kg (2700 lbs.)	Up to 6.7 m (22 ft.)	125.53-141.62 km (78-88 MPH)	48-825948A47
13.75	27	4	Trophy Plus	1133.98-1270.06 Kg (2500-2800 lbs.)	Up to 6.7 m (22 ft.)	120.70-136.8 km (75-85 MPH)	48-825946A47
14.62	27	3	Tempest Plus	1133.98-1270.06 Kg (2500-2800 lbs.)	Up to 6.7 m (22 ft.)	120.70-136.8 km (75-85 MPH)	48-825868A47
15.25	26	4	Bravo I	1179-34-1360.78 Kg (2600-3000 lbs.)	6.4-7.0 m (21-23 ft.)	115.87-130.4 km (72-81 MPH)	48-831914A45 (RH) 48-831913A45 (LH)
13.75	26	4	Trophy Plus	1179-34-1360.78 Kg (2600-3000 lbs.)	6.4-7.0 m (21-23 ft.)	115.87-130.4 km (72-81 MPH)	48-825944A47
14.62	26	3	Tempest Plus	1179-34-1360.78 Kg (2600-3000 lbs.)	6.4-7.0 m (21-23 ft.)	115.87-130.4 km (72-81 MPH)	48-825874A47
14.50	25	3	Mirage Plus	1224.70-1406.14 Kg (2700-3100 lbs.)	6.4-7.0 m (21-23 ft.)	111.04-125.53 km (69-78 MPH)	48-13706A46 (RH) 48-13707A46 (LH)
13.75	25	4	Trophy Plus	1224.70-1406.14 Kg (2700-3100 lbs.)	6.4-7.0 m (21-23 ft.)	111.04-125.53 km (69-78 MPH)	48-825942A47

Diameter	Pitch	No. of Blades	Model	Approx. Gross Boat Wgt.	Approx. Boat Length	Speed Range	Propeller Part Number
14.62	25	3	Tempest Plus	1224.70-1406.14 Kg (2700-3100 lbs.)	6.4-7.0 m (21-23 ft.)	111.04-125.53 km (69-78 MPH)	48-825866A47
15.25	24	4	Bravo I	1315.42-1496.86 Kg (2900-3300 lbs.)	6.7-7.3 m (22-24 ft.)	106.22-119.09 km (66-74 MPH)	48-831912A45 (RH) 48-831911A45 (LH)
13.75	24	4	Trophy Plus	1315.42-1496.86 Kg (2900-3300 lbs.)	6.7-7.3 m (22-24 ft.)	106.22-119.09 km (66-74 MPH)	48-825940A47
14.62	24	3	Tempest Plus	1315.42-1496.86 Kg (2900-3300 lbs.)	6.7-7.3 m (22-24 ft.)	106.22-119.09 km (66-74 MPH)	48-825872A47
14.62	23	4	Revolution 4	1360.78-1542.21 Kg (3000-3400 lbs.)	6.7-7.3 m (22-24 ft.)	101.39-114.26 km (63-71 MPH)	48-857030A46 (RH) 48-857031A46 (LH)
13.75	23	4	Trophy Plus	1360.78-1542.21 Kg (3000-3400 lbs.)	6.7-7.3 m (22-24 ft.)	101.39-114.26 km (63-71 MPH)	48-825938A47
14.62	23	3	Tempest Plus	1360.78-1542.21 Kg (3000-3400 lbs.)	6.7-7.3 m (22-24 ft.)	101.39-114.26 km (63-71 MPH)	48-825864A47
14.63	23	3	Mirage Plus	1360.78-1542.21 Kg (3000-3400 lbs.)	6.7-7.3 m (22-24 ft.)	101.39-114.26 km (63-71 MPH)	48-13704A46 (RH) 48-13705A46 (LH)
13.25	23	5	HighFive	1360.78-1542.21 Kg (3000-3400 lbs.)	6.7-7.3 m (22-24 ft.)	101.39-114.26 km (63-71 MPH)	48-815762A46
14.00	23	4	VenSura	1360.78-1542.21 Kg (3000-3400 lbs.)	6.7-7.3 m (22-24 ft.)	101.39-114.26 km (63-71 MPH)	48-825906A48 (RH) 48-825907A48 (LH)
13.75	21	4	Trophy Plus	1542.21-1769.01 Kg (3400-3900 lbs.)	6.7-7.3 m (22-24 ft.)	91.73-103.0 km (57-64 MPH)	48-825934A47
14.62	21	3	Tempest Plus	1542.21-1769.01 Kg (3400-3900 lbs.)	6.7-7.3 m (22-24 ft.)	91.73-103.0 km (57-64 MPH)	48-825862A47
14.75	21	3	Mirage Plus	1542.21-1769.01 Kg (3400-3900 lbs.)	6.7-7.3 m (22-24 ft.)	91.73-103.0 km (57-64 MPH)	48-13702A46 (RH) 48-13703A46 (LH)
13.25	21	5	HighFive	1542.21-1769.01 Kg (3400-3900 lbs.)	6.4-7.3 m (21-24 ft.)	91.73-103.0 km (57-64 MPH)	48-815760A46
14.00	21	4	VenSura	1542.21-1769.01 Kg (3400-3900 lbs.)	6.4-7.3 m (21-24 ft.)	91.73-103.0 km (57-64 MPH)	48-825902A48 (RH) 48-825903A48 (LH)
14.62	19	3	Tempest Plus	1723.65-1995.81 Kg (3800-4400 lbs.)	6.7-7.6 m (22-25 ft.)	82.08-93.34 km (51-58 MPH)	48-825860A47
15.25	19	3	Mirage Plus	1723.65-1995.81 Kg (3800-4400 lbs.)	6.7-7.6 m (22-25 ft.)	82.08-93.34 km (51-58 MPH)	48-13700A46 (RH) 48-13701A46 (LH)
13.25	19	5	HighFive	1723.65-1995.81 Kg (3800-4400 lbs.)	6.7-7.6 m (22-25 ft.)	82.08-93.34 km (51-58 MPH)	48-815758A46
14.00	19	4	VenSura	1723.65-1995.81 Kg (3800-4400 lbs.)	6.7-7.6 m (22-25 ft.)	82.08-93.34 km (51-58 MPH)	48-825900A48 (RH) 48-825901A48 (LH)
15.5	17	3	Mirage Plus	1950.45-2494.76 Kg (4300-5500 lbs.)	6.7-7.9 m (22-26 ft.)	62.76-78.86 km (39-49 MPH)	48-18278A46 (RH) 48-90159A46 (LH)
13.5	17	5	HighFive	1950.45-2494.76 Kg (4300-5500 lbs.)	6.7-7.9 m (22-26 ft.)	62.76-78.86 km (39-49 MPH)	48-821154A46

Master Specifications

Diameter	Pitch	No. of Blades	Model	Approx. Gross Boat Wgt.	Approx. Boat Length	Speed Range	Propeller Part Number
14.25	17	4	VenSura	1950.45-2494.76 Kg (4300-5500 lbs.)	6.7-7.9 m (22-26 ft.)	62.76-78.86 km (39-49 MPH)	48-825898A48 (RH) 48-825899A48 (LH)
15.75	15	3	Mirage Plus	2267.96-2948.35 Kg (5000-6500 lbs.)	7.0-8.2 m (23-27 ft.)	56.33-72.42 km (35-45 MPH)	48-19838A46 (RH) 48-19841A46 (LH)
16	13	3	Mirage Plus	2721.55 + Kg (6000 + lbs.)	7.6-9.1 m (25-30 ft.)	40.23-61.16 km (25-38 MPH)	48-826072A46