

WARRANTY INFORMATION SERVICE INFORMATION

▲ = Revised October 2000. This bulletin supercedes the previous bulletin 2000-11.

Engine Specifications

Model: 496 MAG Sterndrive

Engine

Propshaft Power	375 hp (280 kW)
Displacement	496 cid (8.1L)
Engine Type / Rotation	V8 Gen+ / LH
Bore x Stroke	4.25 in. x 4.38 in. (108.0 mm x 111.3 mm)
Compression Ratio	9.1:1
Compression Pressure	Minimum 100 psi (690 kPa)
Oil Pressure @ 2000 RPM	Minimum 30 psi (207 kPa)
Oil Pressure @ Idle RPM	Minimum 15 psi (103 kPa)
Valve Adjustment / Lifter	See Service Manual #30 / Roller
Thermostat	160° F (71° C)

Ignition

Type of Ignition System	Distributorless Ignition
Firing Order	1-8-7-2-6-5-4-3
Spark Plug Type	Original: Denso TJ14R-P15
Spark Plug Gap	.060 in. (1.5 mm)
Initial Ignition Timing	N/A

Electrical

Alternator	72 Cold Operating Amps, 65 Hot Operating Amps
Battery Required	Minimum 650 cca or 825 mca (150 Ah), 12V Negative (-) Ground

Fuel

Type of Fuel System	Multi-Port Fuel Injection with Electric Fuel Pump
Fuel Required	Minimum 87 Octane [R+M/2] / (90 RON)
Fuel Pressure	Boost Pump 7 psi (48 kPa), EFI Pump 43 psi (296 kPa)

RPM

Idle RPM	650 RPM in Neutral Gear
Full Throttle RPM	4400-4800 RPM
<u>Date Code Location</u>	Stamped On Machined Cylinder Block Boss On Rear Starboard Side

Fluid Capacities

Oil Change with Filter	Approx. 9 U.S. Quarts (8.5 L)
Closed Cooling System	19 U.S. Quarts (18.0 L)
Sterndrive Gear Lube	Same as before
MIE Transmission	N/A

Torque Specifications

Exhaust Manifold	26 lb-ft (35 Nm)
Exhaust Elbow	15 lb-ft (20 Nm)
Intake Manifold	▲ 106 lb-in. (12 Nm)
Cylinder Head	See Service Manual #30 for procedure
Flywheel	74 lb-ft (100 Nm)
Flywheel Coupler/Drive Plate	35 lb-ft (48 Nm)

Engine Specifications

Model: 496 MAG HO Sterndrive

Engine

Propshaft Power	425 hp (317 kW)
Displacement	496 cid (8.1L)
Engine Type / Rotation	V8 Gen+ / LH
Bore x Stroke	4.25 in. x 4.38 in. (108.0 mm x 111.3 mm)
Compression Ratio	9.1:1
Compression Pressure	Minimum 100 psi (690 kPa)
Oil Pressure @ 2000 RPM	Minimum 30 psi (207 kPa)
Oil Pressure @ Idle RPM	Minimum 15 psi (103 kPa)
Valve Adjustment / Lifter	See Service Manual #30 / Roller
Thermostat	160° F (71° C)

Ignition

Type of Ignition System	Distributorless Ignition
Firing Order	1-8-7-2-6-5-4-3
Spark Plug Type	Original: Denso TJ14R-P15
Spark Plug Gap	.060 in. (1.5 mm)
Initial Ignition Timing	N/A

Electrical

Alternator	72 Cold Operating Amps, 65 Hot Operating Amps
Battery Required	Minimum 650 cca or 825 mca (150 Ah), 12V Negative (-) Ground

Fuel

Type of Fuel System	Multi-Port Fuel Injection with Electric Fuel Pump
Fuel Required	Minimum 87 Octane [R+M/2] / (90 RON)
Fuel Pressure	Boost Pump 7 psi (48 kPa), EFI Pump 43 psi (296 kPa)

RPM

Idle RPM	650 RPM in Neutral Gear
Full Throttle RPM	4600-5000 RPM

Date Code Location

Fluid Capacities

Oil Change with Filter	Approx. 9 U.S. Quarts (8.5 L)
Closed Cooling System	19 U.S. Quarts (18.0 L)
Sterndrive Gear Lube	Same as before
MIE Transmission	N/A

Torque Specifications

Exhaust Manifold	26 lb-ft (35 Nm)
Exhaust Elbow	15 lb-ft (20 Nm)
Intake Manifold	▲ 106 lb-in. (12 Nm)
Cylinder Head	See Service Manual #30 for procedure
Flywheel	74 lb-ft (100 Nm)
Flywheel Coupler/Drive Plate	35 lb-ft (48 Nm)

Engine Specifications

Model: 8.1S Horizon Inboard

Engine

Propshaft Power	370 hp (276 kW)
Displacement	496 cid (8.1L)
Engine Type / Rotation	V8 Gen+ / LH
Bore x Stroke	4.25 in. x 4.38 in. (108.0 mm x 111.3 mm)
Compression Ratio	9.1:1
Compression Pressure	Minimum 100 psi (690 kPa)
Oil Pressure @ 2000 RPM	Minimum 30 psi (207 kPa) using scan tool
Oil Pressure @ Idle RPM	Minimum 15 psi (103 kPa) using scan tool
Valve Adjustment / Lifter	See Service Manual #30 / Roller
Thermostat	160° F (71° C)

Ignition

Type of Ignition System	Distributorless Ignition
Firing Order	1-8-7-2-6-5-4-3
Spark Plug Type	Original: Denso TJ14R-P15
Spark Plug Gap	.060 in. (1.5 mm)
Initial Ignition Timing	N/A

Electrical

Alternator	72 Cold Operating Amps, 65 Hot Operating Amps
Battery Required	Minimum 650 cca or 825 mca (150 Ah), 12V Negative (-) Ground

Fuel

Type of Fuel System	Multi-Port Fuel Injection with Electric Fuel Pump
Fuel Required	Minimum 87 Octane [R+M/2] / (90 RON)
Fuel Pressure	Boost Pump 7 psi (48 kPa), EFI Pump 43 psi (296 kPa)

RPM

Idle RPM	650 RPM in Neutral Gear
Full Throttle RPM	4200-4600 RPM

Date Code Location

Stamped On Machined Cylinder Block Boss On Rear Starboard Side

Fluid Capacities

Oil Change with Filter	Approx. 9 U.S. Quarts (8.5 L)
Closed Cooling System	19 U.S. Quarts (18.0 L)
Stern Drive Gear Lube	N/A
MIE Transmission	Same as before

Torque Specifications

Exhaust Manifold	26 lb-ft (35 Nm)
Exhaust Elbow	15 lb-ft (20 Nm)
Intake Manifold	▲ 106 lb-in. (12 Nm)
Cylinder Head	See Service Manual #30 for procedure
Flywheel	74 lb-ft (100 Nm)
Flywheel Coupler/Drive Plate	35 lb-ft (48 Nm)

Engine Specifications

Model: 8.1S HO Inboard

Engine

Propshaft Power	420 hp (313 kW)
Displacement	496 cid (8.1L)
Engine Type / Rotation	V8 Gen+ / LH
Bore x Stroke	4.25 in. x 4.38 in. (108.0 mm x 111.3 mm)
Compression Ratio	9.1:1
Compression Pressure	Minimum 100 psi (690 kPa)
Oil Pressure @ 2000 RPM	Minimum 30 psi (207 kPa) using scan tool
Oil Pressure @ Idle RPM	Minimum 15 psi (103 kPa) using scan tool
Valve Adjustment / Lifter	See Service Manual #30 / Roller
Thermostat	160° F (71° C)

Ignition

Type of Ignition System	Distributorless Ignition
Firing Order	1-8-7-2-6-5-4-3
Spark Plug Type	Original: Denso TJ14R-P15
Spark Plug Gap	.060 in. (1.5 mm)
Initial Ignition Timing	N/A

Electrical

Alternator	72 Cold Operating Amps, 65 Hot Operating Amps
Battery Required	Minimum 650 cca or 825 mca (150 Ah), 12V Negative (-) Ground

Fuel

Type of Fuel System	Multi-Port Fuel Injection with Electric Fuel Pump
Fuel Required	Minimum 87 Octane [R+M/2] / (90 RON)
Fuel Pressure	Boost Pump 7 psi (48 kPa), EFI Pump 43 psi (296 kPa)

RPM

Idle RPM	650 RPM in Neutral Gear
Full Throttle RPM	4400-4800 RPM

Date Code Location

Stamped On Machined Cylinder Block Boss On Rear Starboard Side

Fluid Capacities

Oil Change with Filter	Approx. 9 U.S. Quarts (8.5 L)
Closed Cooling System	19 U.S. Quarts (18.0 L)
Sterndrive Gear Lube	N/A
MIE Transmission	Same as before

Torque Specifications

Exhaust Manifold	26 lb-ft (35 Nm)
Exhaust Elbow	15 lb-ft (20 Nm)
Intake Manifold	▲ 106 lb-in. (12 Nm)
Cylinder Head	See Service Manual #30 for procedure
Flywheel	74 lb-ft (100 Nm)
Flywheel Coupler/Drive Plate	35 lb-ft (48 Nm)