



## Installation

**Clearance**  
 From obstruction at propeller clearance: 3" (76.2 mm) \*  
 From obstruction at stern post: 2" (50.8 mm) \*

**Coasting Gear Adjustment**  
 Gearcase oil level: 12 in. (304.8 mm) (max)  
 Gearcase intake filter: 1" (25.4 mm) (max)  
 Gearcase drain hole: 1/8 in. (3.18 mm) (max)  
 Gearcase drain plug: 1/8 in. (3.18 mm) (max)  
 Propeller nut: 3/8 in. (9.5 mm) (max)

**Shaft Dimensions**  
 Shaft diameter (center): 1 1/2 in. (38.1 mm)  
 Shaft length: 25 1/2 in. (647.7 mm)  
 Shaft diameter at gear: 1 1/2 in. (38.1 mm)  
 Gear diameter: 2 1/2 in. (63.5 mm)  
 Gear to propeller distance: 4 1/2 in. (113 mm)  
 Gear to stern post distance: 20 1/2 in. (520.7 mm)  
 Distance from propeller to stern post: 20 in. (508 mm)

**Weights**  
 Gearcase weight: 17.0 lb (7.7 kg)  
 Motor (gear case): 75.0 lb (34.0 kg)  
 Gearcase (without propeller): 11.0 lb (5.0 kg)

**Oil**  
 Oil type or specification at start time: SAE 90 (30) or higher  
 Recommended oil grade: SAE 90 (30) or higher  
 Oil capacity: 1.0 qt. (0.95 l.)  
 Oil level: 12 in. (304.8 mm)  
 Recommended oil brand: Shell®

**Clearance**  
 Clearance at stern post: 2 in. (50.8 mm)  
 Clearance at propeller: 3 in. (76.2 mm)  
 Clearance at gear: 3 in. (76.2 mm)  
 Clearance at shaft: 3 in. (76.2 mm)

**Max. Wet Weight**  
 Gearcase (with propeller): 23.0 lb (10.4 kg)  
 Motor (gear case): 75.0 lb (34.0 kg)  
 Motor (without gear case): 20.0 lb (9.1 kg)  
 Motor (with gear case): 45.0 lb (20.4 kg)  
 Max. recommended starting weight (with gear case): 50 lb (22.7 kg)

## Dimensional Data

Dimensions in inches (millimeter conversion)



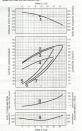
## Marine Gears

The recommended gear oil specification is listed below. Please use synthetic gear oil. Please consult your dealer or distributor for more information on the types of gear oils.

Gear Type	Oil Grade	Viscosity
Propeller	SAE 90 (30)	30
Gearcase	SAE 90 (30)	30
Shaft	SAE 90 (30)	30
Gearcase	SAE 90 (30)	30

## Performance Data

**Maximum Power:** 18.2 HP (13.3 kW) @ 5,000 RPM  
**Maximum RPM:** 5,000 RPM (at 5,000 RPM)  
**Maximum Torque:** 29.5 lb-ft (40.2 N-m) @ 3,000 RPM  
**Maximum Fuel:** 3.25 GPH (12.3 LPH) @ 5,000 RPM  
**Maximum Endurance:** 1:30 (at 5,000 RPM)  
**Maximum Efficiency:** 45.3% (at 3,000 RPM)  
**Minimum Fuel:** 0.6 GPH (2.3 LPH) @ 1,000 RPM  
**Minimum Endurance:** 1:30 (at 1,000 RPM)  
**Minimum Efficiency:** 45.3% (at 1,000 RPM)



**WAGER**  
 WAGER Outboard Motor Division  
 200 Wager Drive, Wager, MN 55081

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## Installation

Minimum 2" clearance between hull and outboard. 2" clearance between outboard and transom.

### Casting Used Outboard

Minimum depth	12 ft. 0 in. (3.7 m)
Minimum transom height	12 ft. 0 in. (3.7 m)
Minimum transom length	14 ft. 0 in. (4.3 m)
Minimum transom width	14 ft. 0 in. (4.3 m)
Minimum transom thickness	1/2 in. (13 mm)
Minimum hull width	2 ft. 0 in. (61 cm)

### Concrete Deck Mount

Minimum transom height	12 ft. 0 in. (3.7 m)
Minimum transom length	14 ft. 0 in. (4.3 m)
Minimum transom width	14 ft. 0 in. (4.3 m)
Minimum transom thickness	1/2 in. (13 mm)
Minimum hull width	2 ft. 0 in. (61 cm)
Minimum hull thickness	1/2 in. (13 mm)

### Concrete

Minimum transom height	12 ft. 0 in. (3.7 m)
Minimum transom length	14 ft. 0 in. (4.3 m)
Minimum transom width	14 ft. 0 in. (4.3 m)

Clearance to propeller (outboard)	10 ft. 0 in. (3.0 m)
Minimum distance to transom	12 ft. 0 in. (3.7 m)
Minimum distance to transom	12 ft. 0 in. (3.7 m)
Minimum distance to transom	12 ft. 0 in. (3.7 m)
Minimum distance to transom	12 ft. 0 in. (3.7 m)
Minimum distance to transom	12 ft. 0 in. (3.7 m)

### Max. HP. 50

Minimum transom height	12 ft. 0 in. (3.7 m)
Minimum transom length	14 ft. 0 in. (4.3 m)
Minimum transom width	14 ft. 0 in. (4.3 m)
Minimum transom thickness	1/2 in. (13 mm)

### Max. HP. 60-75

Minimum transom height	12 ft. 0 in. (3.7 m)
Minimum transom length	14 ft. 0 in. (4.3 m)
Minimum transom width	14 ft. 0 in. (4.3 m)
Minimum transom thickness	1/2 in. (13 mm)

## Dimensional Data

Dimensions shown in inches (millimeters)



1. Maximum outboard height from transom to top of outboard.  
2. Minimum transom height from hull to top of transom.  
3. Minimum transom length from hull to aft edge of transom.  
4. Minimum transom width from hull to aft edge of transom.  
5. Minimum transom thickness from hull to aft edge of transom.  
6. Minimum hull width from hull to aft edge of transom.  
7. Minimum hull thickness from hull to aft edge of transom.

Outboard & accessories shown are shown for informational purposes only. All dimensions are approximate.

## Marine Cases

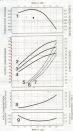
For information on accessories, please contact us at the nearest distributor, using 800-874-5274. Please provide our case number for your correspondence to our dealer.

Manufacturer	Model	Availability
Yamaha	200-250	NA
Yamaha	200-250	NA

Model	Availability
200	NA
250	NA

## Performance Data

Max. outboard speed: 200 MPH (322 km/h) / 250 MPH (402 km/h)  
 Max. speed: 100 MPH (161 km/h) / 120 MPH (193 km/h)  
 Acceleration: 100 MPH (161 km/h) / 120 MPH (193 km/h)  
 Performance: 100 MPH (161 km/h) / 120 MPH (193 km/h)  
 Performance: 100 MPH (161 km/h) / 120 MPH (193 km/h)  
 Performance: 100 MPH (161 km/h) / 120 MPH (193 km/h)  
 Performance: 100 MPH (161 km/h) / 120 MPH (193 km/h)



**LUGGER**  
 CONCEPTS