COMPONENT IDENTIFICATION

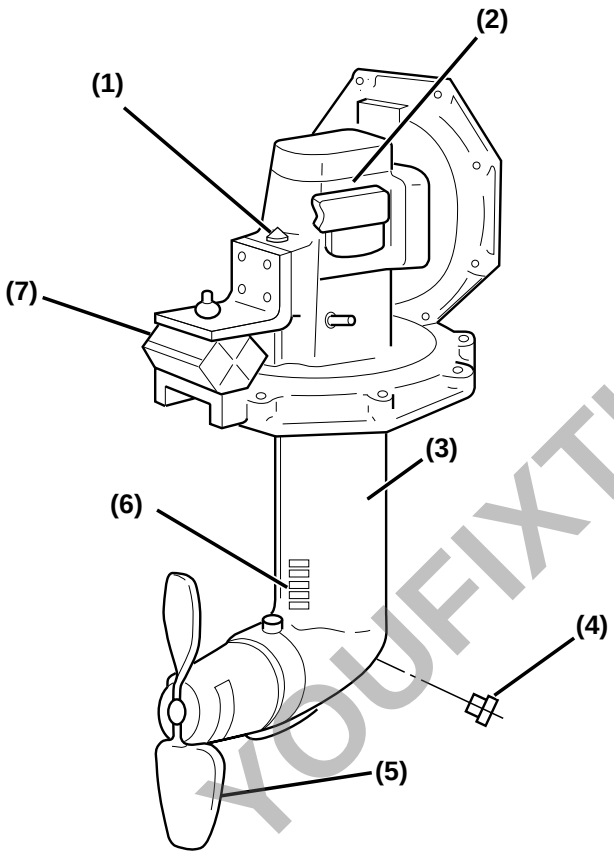


Figure 1

1 – Dipstick
2 – Upper Gear Case
3 – Lower Gear Case
4 – Lubricating Oil Drain Plug
5 – Propeller
6 – Seawater Inlet
7 – Flexible Mount

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LUBRICATING OIL

The choice of lubricating oil is very important. If an unsuitable oil is used, or an oil change is neglected, it may result in damage and reduce the life of the Sail-Drive. When selecting a lubricating oil, use one of the following:

Lubricating Oil Chart

Engine series	GM, YM		JH3, JH4, JH5	
Engine model	1GM10C	2YM15, 3YM20, 3YM30	3JH4E, 3JH5E, 4JH4AE, 4JH5E	4JH4-TE

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FILLING WITH LUBRICATING OIL - SD20, SD50 AND SD50-4T

Sail-Drive model	SD20	SD50, SD50-4T
Standard unit	2.2 L (2.3 qt)	2.2 L (2.3 qt)
Long-reach unit	2.5 L (2.6 qt)	2.35 L (2.5 qt) Extension 58 2.45 L (2.6 qt) Extension 100

NOTICE: *The lubricating oil capacity of the standard unit is different from that of the long-reach unit. Confirm the capacity by means of the oil capacity nameplate.*

1. Remove the dipstick (yellow cap). Fill with approved lubricating oil.
2. Check the amount of lubricating oil by inserting the dipstick as far as possible. Do not screw the dipstick in **(Figure 3, (1))**. The oil level should reach the upper mark on the dipstick **(Figure 3, (2))**.

NOTICE: *It takes about 10 minutes to fill up the Sail-Drive with lubricating oil. Check the oil level 15 minutes after adding the specified quantity of oil.*

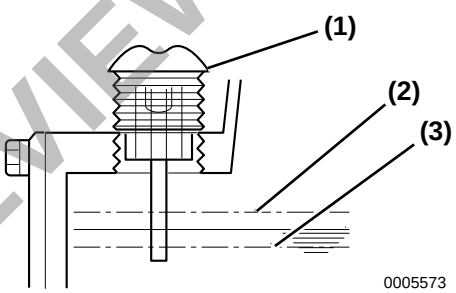


Figure 2

1 – Dipstick
2 – Upper Limit
3 – Lower Limit

SD20

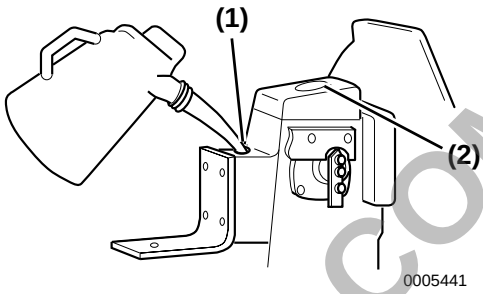


Figure 3

1 – Oil Supply Port
2 – Oil Capacity Nameplate

SD50/SD50-4T

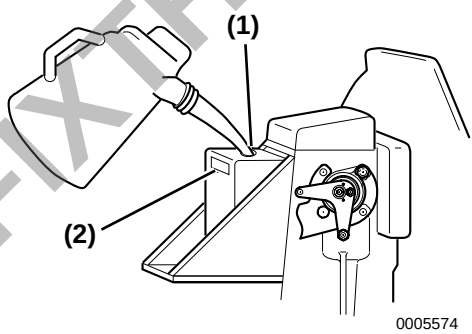


Figure 4

1 – Oil Supply Port
2 – Oil Capacity Nameplate

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TORQUE CHARTS

Standard Torque Values

	M6 x 1.0	M8 x 1.25	M10 x 1.25 or 1.5	M12 x 1.25 or 1.5	M14 x 1.5	M16 x 1.5
Cast Iron or Steel	10.8 ± 1.0 N·m 8.0 ± 0.8 lb-ft	25.5 ± 2.0 N·m 18.8 ± 1.5 lb-ft	49.1 ± 4.9 N·m 36.2 ± 3.6 lb-ft	88.3 ± 10.0 N·m 65.1 ± 7.4 lb-ft	137.2 ± 4.9 N·m 101.2 ± 3.6 lb-ft	225.4 ± 10.0 N·m 166.2 ± 7.4 lb-ft
Aluminum	8.8 ± 1.0 N·m	20.6 ± 2.0 N·m	39.2 ± 2.0 N·m	70.6 ± 4.9 N·m	109.8 ± 4.9 N·m	180.3 ± 10.0 N·m

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PERIODIC MAINTENANCE TABLE

○: Check or Clean ◇: Replace ●: Contact your authorized Yanmar Marine dealer or distributor								
	Daily (*See Daily Checks on page 23*.)	**50 Hours Or After 1 Month**	**Every 100 Hours**	**Every 250 Hours**	**Every 500 hours**	**Every Year**	**Every 2000 Hours**	**Every 5 Years**
Lubricating Oil								
Check Oil Level, Fill If Necessary	Before operation ○							
Change Lubricating Oil		First ◇	SD20 ◇	SD50, SD50-4T ◇				
Cooling Water								
Open/Close Cooling Water Cock	Before / after operation ○							
Clean Cooling Water Suction Hole						○		
Drain Cooling Water	After operation ○							
Remote Control System								
Inspect Remote Control Device						○		
Cone Clutch and Shifter								
Inspect / replace or lap					●			
Replace the cone-clutch							●	
Anode								
Inspect And Replace Anode			◇					
Lower Case								
Repair Case Coating						●		
Boat Hull Water-Tightness								
Inspect Rubber Diaphragm						○		◇
Inspect Seal Sensor						○		

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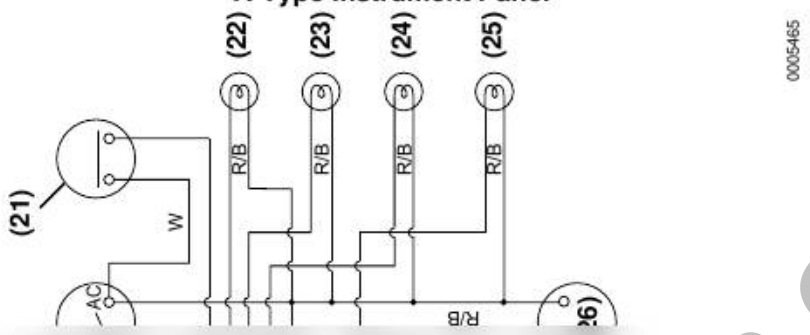
SPECIFICATIONS

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A-Type Instrument Panel



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