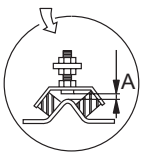
6. Periodic Inspections and Maintenance

	Every day	50 hrs. or after 1 month	Every 100 hrs.	Every 250 hrs.	Every 1 year	Every 2 years
Lubricating Oil						
(1) Check oil level: fill	Before operation					
(2) Change lube oil	O	First O	SD20 O	SD50/-4T O		
Cooling Water						
(1) Open/close cooling water cock	Before/after operation O					
(2) Clean cooling water suction hole					O	
(3) Drain cooling water	After operation O					
Remote Control System						
(1) Inspect remote control device					Replace if the thickness is less than 10 mm. O	Serial No. 2129 and after for SD20
(2) Inspect and replace clutch shifter		First O	O			
Anti-Corrosive Zinc						
(1) Inspect and replace anti-corrosive zinc			Replace if wear is more than 50% O			
Lower Case						
(1) Repair case coating					O	
Boat Bottom Water- tightness						Inspect and replace, if there is cracking, or at least every 6 years O
(1) Inspect and replace rubber diaphragm seal ring						
(2) Inspect seal sensor					O	
Flexible mount						
(1) Inspect and replace mounting height.					Replace if clearance is less than 1 mm. O	
					 003451-00E A: Clearance	

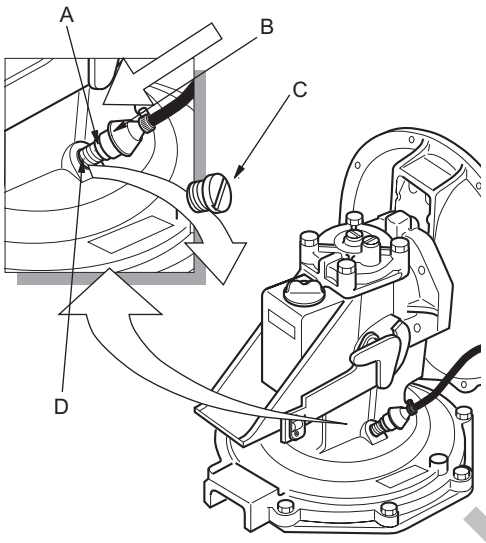
EN

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

6.2.1 When the boat is in the water

6.2.1.1 Preparing the sail-drive:



003452-00E

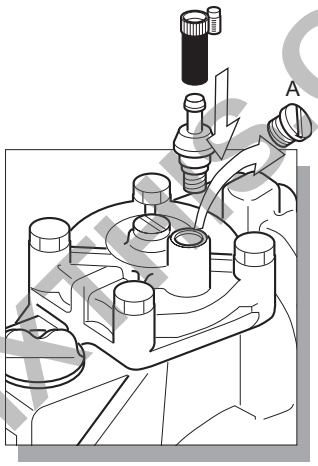
A O-ring
B Adapter joint
C Oil changing plug
D Tread M10 x 1.5

(1) Take out the oil changing plug located under the shift lever.

(2) Screw in the adapter joint (196311-92960) with the O-ring (24311-000100). When using own adapter joint, max. length of thread is 12 mm.

(3) Attach a stiff rubber hose with inner diameter ø14~16 mm with hose clips to the adapter joint at the oil changing position. Hose must be long enough to drain to bucket or pump. (If Yanmar original rubber hose is used, part code is 196440-92970)

6.2.1.2 Removing oil (total quantity 2.2 liter)



003453-00E

A Plug

6.2.1.3 Fastest way: Blowing out by using Air pressure

First follow steps (1), (2), (3) on page 22

(1) Take out the plug from the upper case cover.

(2) Screw in a second adapter joint (P/N 196311-92960) with an O-ring (P/N 24311-000100) at the oil inlet position. Screw in the oil plug at the dipstick position.

(3) Connect the air pressure hose with hose clips.

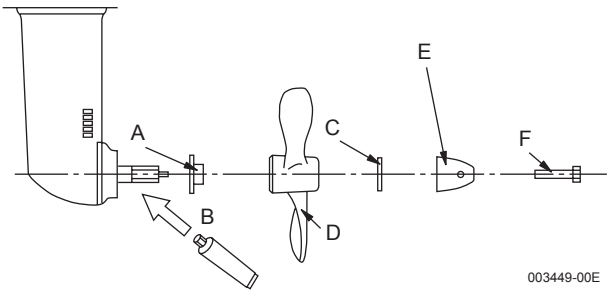
(4) Option 1: Using Compressed air from main system or 12 V portable compressor.

1. Connect hose at top adapter joint to compressed air and within 10 to 15 minutes almost all oil will be blown out.

EN

Download full manual at youfixthis.com

4.4 Fitting for Fixed Propeller (2-blade)



A Spacer
B Grease
C Washer
D Propeller
E Nut Tightening torque 60-70 Nm (M16, SD20)
80-100 Nm (M20, SD50/-4T)
F Bolt M8x75mm
Tightening torque11-15 Nm

Locking Procedure for Fixed Propeller Nut (Optional). When tightening the nut at 60-70 Nm torque for the SD20, and 80-100 Nm torque for the SD50/-4T, move the shift lever to ahead and hold the crankshaft V-pulley clamp nut with a wrench to stop the rotation.

⚠ CAUTION

Rubber bushing (Folding propeller)

For the sail-drive, be sure to use the folding propeller which is provided with a rubber bushing. If a propeller is used without rubber bushing, the shaft, bearing, and gears of the sail-drive are surely damaged.

EN

4.5 Recommended Propeller Size (Max.)

Engine model	Sail-Drive Model	Folding type Dia. mm (inch)	2-blade, fixed type-Dia. mm (inch)
1GM10C	SD20	355 (14)	380 (15)
2YM15		368 (14.5)	380 (15)
3YM20		380 (15)	405 (16)
3YM30		405 (16)	420 (16.5)
3JH4E	SD50	457 (18)	457 (18)
4JH4E		457 (18)	457 (18)
4JH3-TCE	SD50-4T	457 (18)	457 (18)

⚠ CAUTION

Precautions on matching of the propeller

(1) Be sure to confirm a matching of the propeller in a sea trial.

(2) Execute a propeller matching on the basis of the propeller shaft rated output (continuous rating at propeller shaft). 95% of the engine rated output (continuous rating at crankshaft) becomes the propeller shaft rated output (continuous rating at propeller shaft).

Download full manual at youfixthis.com

PREVIEW - YOUFIXTHIS.COM

7. Electrical Wiring Diagrams

See Appendix B. at the back of this manual.

Color coding	
R	Red
B	Black
W	White

A-type Instrument Panel	
Applicable Engine Model: 1GM10C	
4	Battery Recommended capacity GM,12V-70AH 1GM,12V-100AH (Mini)

B-type Instrument Panel	
Applicable Engine Model: 1GM10C	
4	Battery Recommended capacity GM,12V-70AH 1GM,12V-100AH (Mini)

Blurred on purpose. The manual you buy has this page in full quality.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Introduction 3

1. For Your Safety 4
   1.1 Safety Precautions For Inspection 4

2. Specifications 7

7. Electrical Wiring Diagrams 31

Blurred on purpose. The manual you buy has this page in full quality.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1. For Your Safety

1.1 Safety Precautions For Inspection

⚠ DANGER Battery

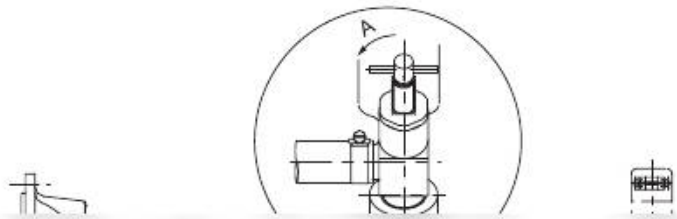
Never smoke or permit sparks near the battery, because it may emit explosive hydrogen gas. Place the battery in a well-ventilated place

Blurred on purpose. The manual you buy has this page in full quality.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

5.1.2 SD50/SD50-4T



Blurred on purpose. The manual you buy has this page in full quality.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 7 of 33 pages

The full manual includes:

- All 33 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Yanmar SD20, SD50, SD50-4T, 1GM10C, 2YM15, 3YM20, 3YM30, 3JH4E, 4JH4E, 4JH3-TCE Operator Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual