

COMPACT UTILITY TRACTOR

MODEL

SA223

SA325

SA425



**YANMAR**

---

**SA223**

**SA325**

**SA425**

---

QUICK OPERATION  
& MAINTENANCE  
GUIDE



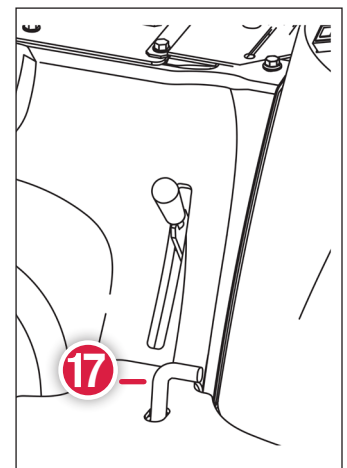
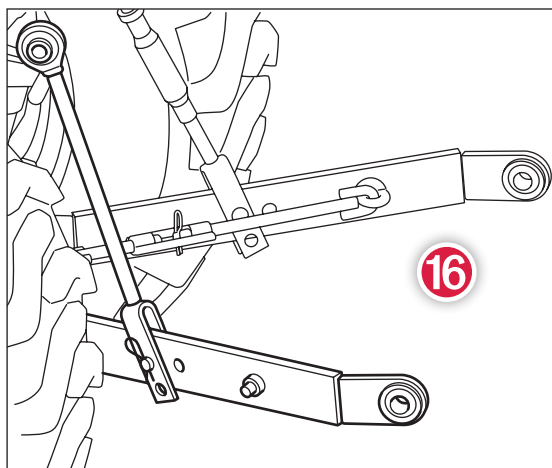
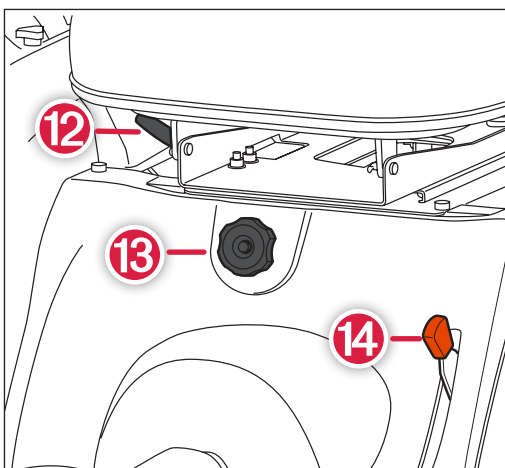
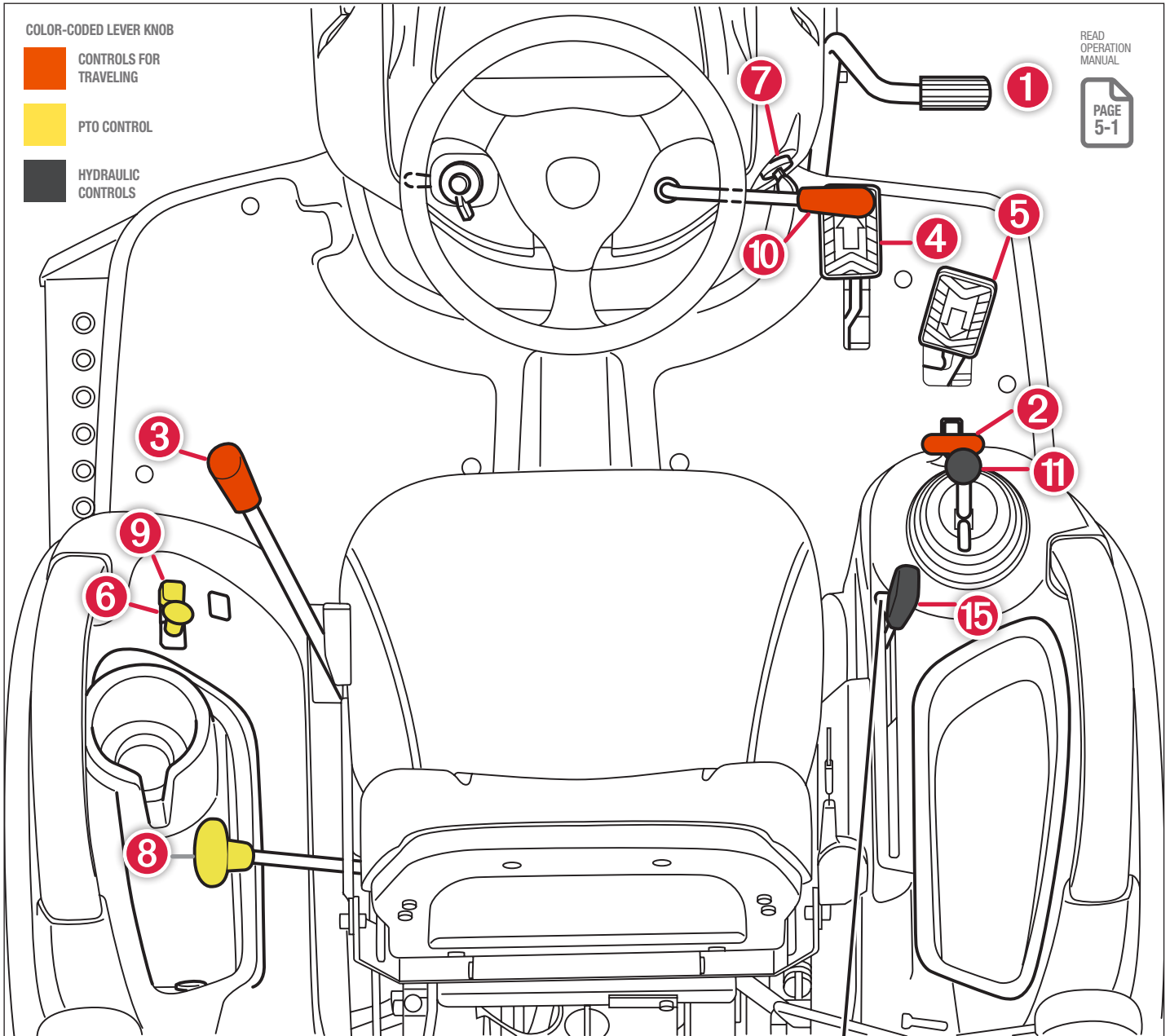
# HOW TO OPERATE YOUR TRACTOR

## COLOR-CODED LEVER KNOB

- CONTROLS FOR TRAVELING
- PTO CONTROL
- HYDRAULIC CONTROLS

READ  
OPERATION  
MANUAL

PAGE  
5-1



# LAMPS & INDICATORS ON METER PANEL

## Start Engine

- 1 2 Parking brake set and locked
- 3 Range shift lever [N]
- 4 5 Foot off of both drive pedals
- 6 Push the PTO switch to [OFF]
- 10 Push the throttle control lever forward from the slow idle position to the 1/3 to 1/2 fast positions

- 7 Turn the Key switch [START]  
"Cold start" use glow plugs

\* Use the HEAT position in cold weather condition. Refer the Key Switch section for the detail.

## Power Take Off (PTO) Operation

- 8 Select the desired position of the PTO select lever [BOTH/REAR]
- 6 Pull the PTO switch to [ON]

## Mid PTO Reverse Override

- 9 Push and hold the reverse override switch
- 5 Press the reverse pedal

\*\* By pressing the reverse pedal with the Mid PTO engaged, PTO will stop automatically for safety if the reverse override switch is not pressed. In this condition, PTO will not be re-engaged even if the operator starts to drive forward again. Turn the PTO switch off to reset the safety circuit then turn the PTO switch on again to restart the Mid PTO.

\*\*\* Use the reverse override switch to operate the PTO while reversing the tractor.

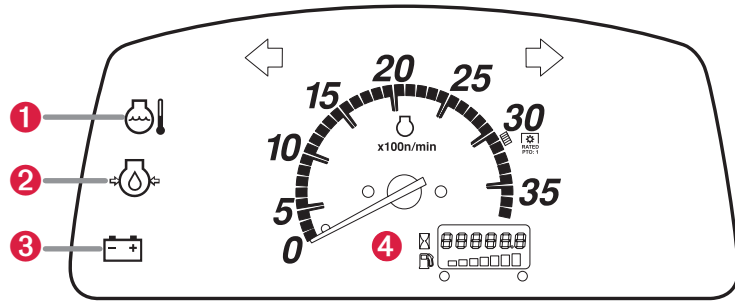
\*\*\*\* PTO Reverse override is canceled when the reverse pedal is released. Push and hold the PTO reverse override switch again to reactivate the override before pressing the reverse pedal.

## Travel Speed Control

- 3 Stop the tractor to select the range shift lever [L/H]
- 2 Parking brake released
- 10 Push the throttle control lever forward to increase the engine speed.
- 4 5 Press or release the drive pedals to adjust the travel speed.

## Additional Controls

- 11 Implement control lever
- 12 Operator seat forward and backward lever
- 13 3-Point Hitch hydraulic flow control/ stop knob
- 14 2WD/4WD lever
- 15 16 3-point hitch control lever and rear 3-point hitch
- 17 Differential lock pedal



## Meter Panel

### 1. Coolant temperature warning light

Illuminates when the current coolant temperature is too high. Stop and check for debris blockage on radiator.

### 2. Engine oil pressure warning light\*

Illuminates when the current engine oil pressure is too low. Stop and contact your local Yanmar tractor dealer.

### 3. Alternator/battery charging light\*

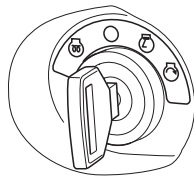
Illuminates when the alternator/battery charging circuit is out of order. Stop and contact your local Yanmar tractor dealer.

### 4. Tachometer

Indicates the current engine speed in increments of 100 Revolutions Per Minutes (rpm).

- Engine Rated Speed: 3200 rpm
- Rear PTO Rated RPM 540 rpm at Engine 3120 rpm
- Mid PTO Rated RPM 2000 rpm at Engine 3111 rpm

\* The lights 2 and 3 illuminate when the key switch is in ON position and the engine is not running.



## Key Switch

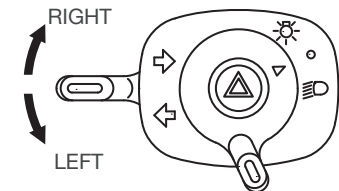
READ OPERATION MANUAL



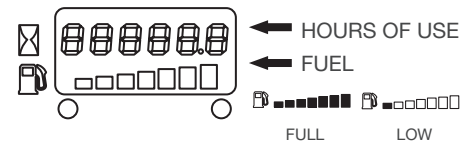
\* Preheating time should be determined according to the ambient temperature. For details, see the table below.

Ambient Temperature (°F (°C))	Preheating Time (sec.)
Over 32 (0)	2 to 3
Below 32(0)	4

## Headlight Switch

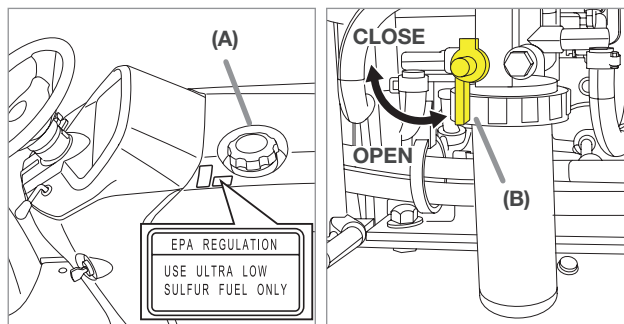


## LCD



## Fuel Tank and Fuel Shut-off Valve

READ OPERATION MANUAL



(A) – Fuel Filler Cap

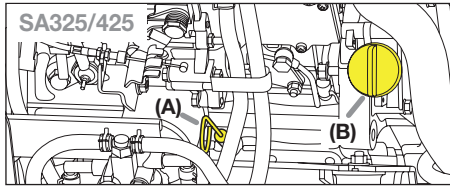
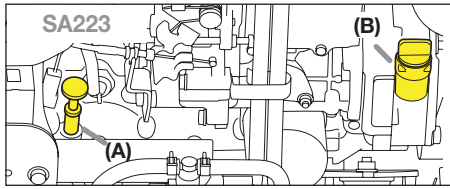
(B) – Fuel Shut-off Valve

Dirt and water in the fuel can damage the engine. Remove dirt and debris from the fuel tank before filling.

Ensure the fuel and filling equipment is clean and free of debris. Avoid using fuel containers made of zinc plated steel. A plastic or stainless container is recommended. Fill the fuel tank with fresh diesel fuel. Tank capacity: 6.1 gal (23.0L).

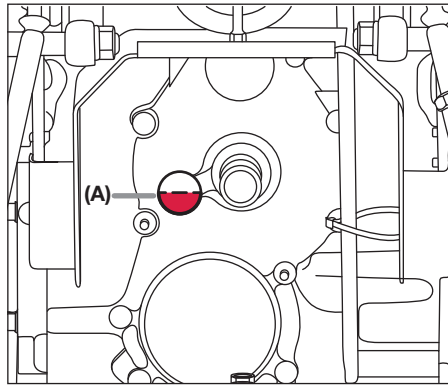
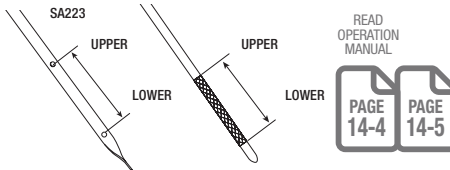
# DAILY CHECK ITEMS

Always turn off engine and allow the machine to cool down completely before accessing the engine, muffler, radiator or other hot components.



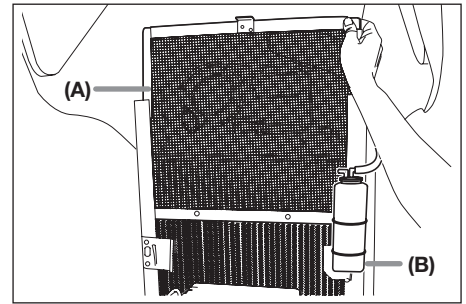
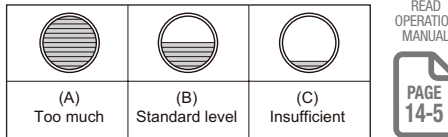
## Engine Oil Level

Remove the dipstick (A) and wipe the dipstick with a clean rag. Insert the dipstick completely and remove it to check the oil level. If the engine oil level is low, add the specified engine oil from the engine oil filler (B) until the engine oil level is in the operating range on the dipstick.



## Transmission Oil Level

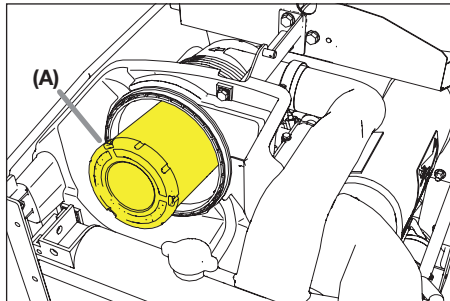
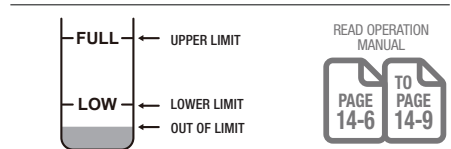
Read the transmission hydraulic oil gauge window (A) on the rear side of the transmission case. The transmission hydraulic oil level should be in the middle of gauge window.



## Radiator Screen & Coolant

**Radiator Screen:** Raise the hood. Pull out the radiator cooling screen (A). Remove straw and dust attached from the radiator cooling screen.

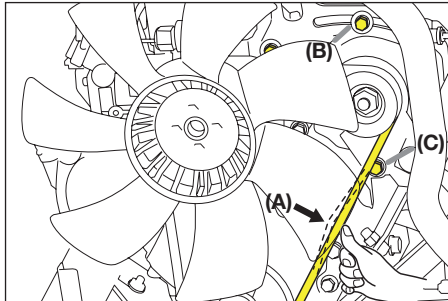
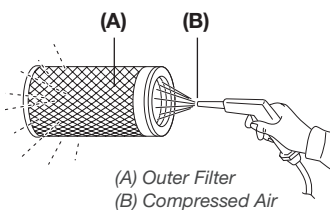
**Coolant:** Check the coolant level of the reservoir tank (B). It should be between the upper and lower limits marked on it when the engine is warm. If the engine is cold, the coolant level must be at the low line on the reserve tank. When necessary, add a pre-diluted coolant with an antifreeze to water ratio that suits the local climate\*.



## Air Cleaner

Air cleaner (A) can be accessed without tools. Release the two latch hooks on the air cleaner canister cover and remove the cover. Never wash the filter or attempt to clean the filter by tapping the filter against another object. Apply compressed air from inside of the element to blow away the dust. Clean every 100 hours or if necessary, replace every 1 year or if necessary.

Genuine Parts: 1A8330-05110, ELEMENT ASSY



## Alternator / Fan Belt

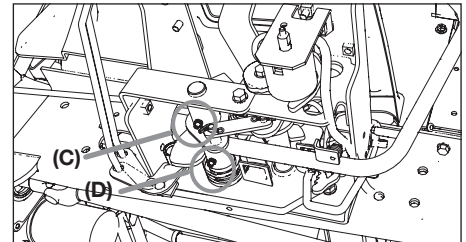
Turn off engine and disconnect battery cable for safety. Using the thumb, gently apply pressure to the midpoint (A) of the alternator/fan belt between the pulleys. Check whether the alternator/fan belt deflects inward by approximately 0.4 to 0.6 in. (10 to 15 mm). If the deflection is not as specified, adjust the tension of the alternator/fan belt. Adjust every 50 hours, replace if necessary.

(A) 0.4 to 0.6 in. (10 to 15 mm)  
(B) Adjusting bolt  
(C) Mounting bolt

Genuine Parts:

25152-003500, V-BELT, A35 (SA223);  
25152-003600, V-BELT, A36 (SA325/425)

**SAFETY: 1-Engine off. 2-Battery disconnected.**



## Grease Points

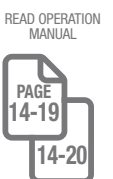
**Extremely Wet or Muddy Conditions:** Lubricate the grease fittings once every 10 operating hours or once a day, whichever comes first.

**All Other Conditions**

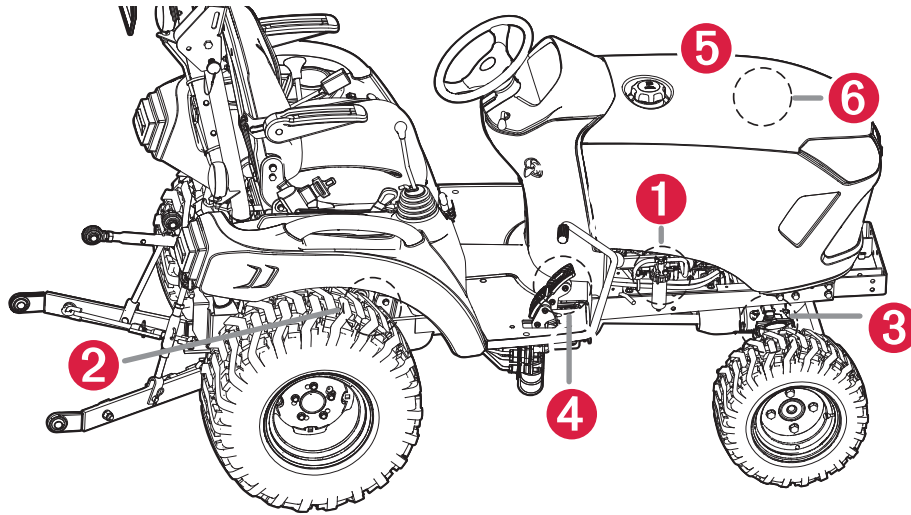
Lubricate the grease fittings once every 50 operating hours.

**Type of grease:** General all-purpose grease NLGI GRADE No.2

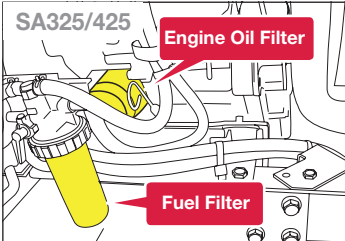
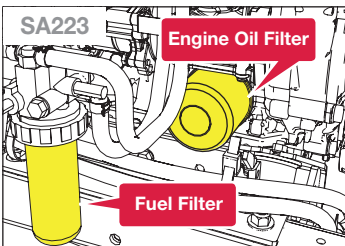
(A) Right tie rod end  
(B) Left tie rod end  
(C) Forward drive pedal rod end  
(D) Reverse drive pedal rod end



# PERIODICAL MAINTENANCE ITEMS



## 1. Engine Oil Filter Fuel / Water Separator



### Service interval:

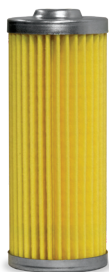
Replace after the first 50 and 200 hours, then every 200 hours

**Genuine part:**  
119305-35170  
FILTER ASSY  
D68LX65

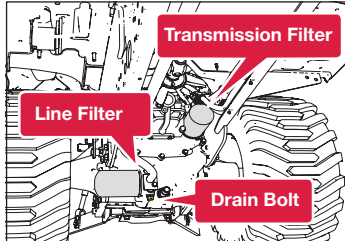
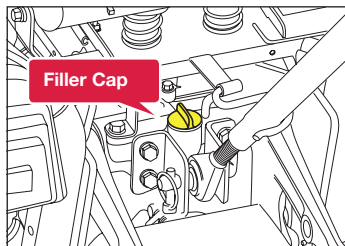


**Fuel/Water Separator**  
**Service Interval**  
Drain every 50 hours, replace every 100 hours or if necessary.

**Genuine part:**  
119810-55650  
ELEMENT



## 2. Transmission Filters and Oil (4.1 GAL / 15.5 L)



### Service interval:

Replace after the first 50 and 300 hours, then every 300 hours

**Genuine part:**  
198167-24900  
FILTER, OIL  
(Transmission)



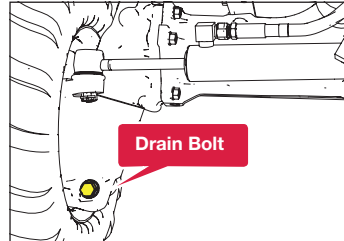
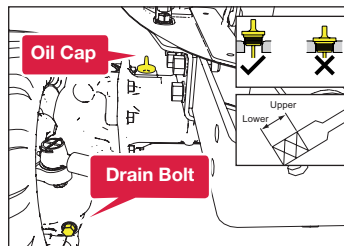
198119-48310  
FILTER (Line)



**Genuine part:**  
TF500A  
Transmission  
Fluid (1 gal)  
TF500A5G  
Transmission  
Fluid (5 gal)



## 3. Front Axle Gear Oil (3.2 QT. / 3.0 L)



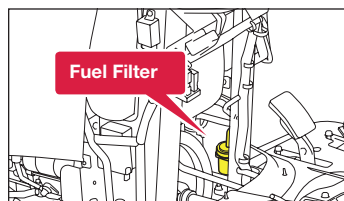
### Service interval:

Check after the first 50 hours, replace every 500 hours

**Genuine part:**  
SAE90 (1 qt)



## 4. Fuel Filter

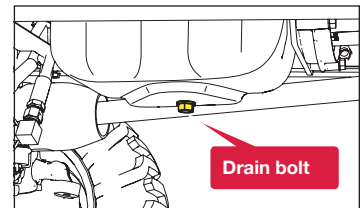
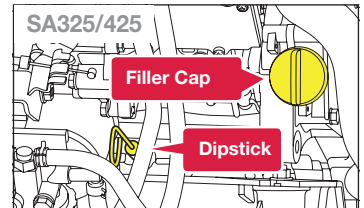
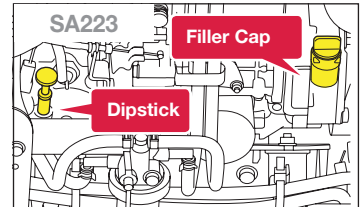


**Service interval:**  
Replace every 500 hours, or if necessary.

**Genuine part:**  
129052-55630 FILTER, FUEL

## 5. Engine Oil

(SA223: 3.1 QT. / 2.9 L)  
(SA325/425: 3.6 QT. / 3.4 L)

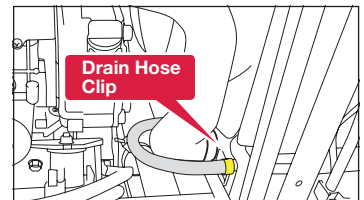
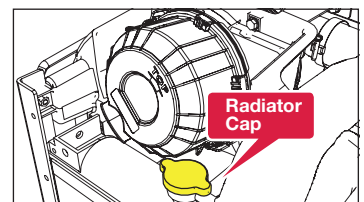


**Service interval:**  
Replace after the first 50 hours and 200 hours, then every 200 hours

**Genuine part:**  
41540G  
(1 gal, SAE15W40)



## 6. Coolant (3.0 QT. / 2.8 L)



**Service interval:**  
Replace every 2 years or 1000 hours

**Genuine part:**  
YG30R (1 gal)



## Your Yanmar Dealer

This love of the land and a passion for the environment has guided Yanmar for more than 100 years. Our story began with one simple and powerful tenet: "To conserve fuel is to serve mankind."

Yanmar dealers carry on this tradition. For details about Yanmar tractors, genuine parts and service, contact your local YANMAR dealer.

### Maintenance kit for SA223, SA325, SA425

Parts code: KIT-SA001

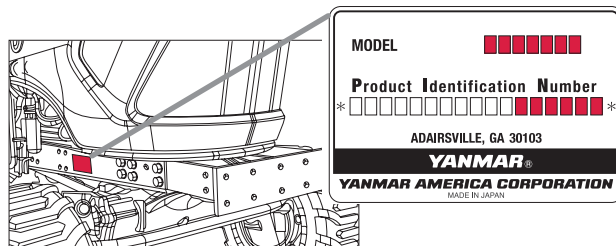
Engine oil 15W40 (4 X 1qt), Engine oil filter, Water separator element, Water separator O-ring, Air cleaner, Transmission oil filter, Line filter.



## Service Your Tractor

Your Yanmar tractor dealer is committed to provide reliable and quality services to the tractor. Through the preceding services, the full performance potential of the tractor can be realized. When ordering a part or component, always provide the serial numbers of your tractor to your local YANMAR dealer.

READ  
OPERATION  
MANUAL



## Additional Maintenance Items

Items	Service Intervals	Genuine Part	Reference
Front Grille Screen Radiator Cooling Fins	Clean: Daily		READ OPERATION MANUAL PAGE 14-7 TO PAGE 14-8
Battery and Fuses	Replace: If necessary.	1A8160-51500, BATTERY ASSY, 526RMF 198535-52110, FUSE, 5A 198535-52120, FUSE, 10A 198535-52130, FUSE, 15A 1A7450-52180, FUSE, 25A 1A7000-52820, FUSE, SLOW BLOW 60A 198153-51700, FUSE, SLOW BLOW 80A	READ OPERATION MANUAL PAGE 15-1 TO PAGE 15-5
Radiator Hoses, Air Intake Hoses, Power Steering Line, Hydraulic Hoses, Fuel Lines	Check: Daily Replace: Every 2 years or if necessary.	For replacement, contact local YANMAR dealer for technical assistance.	READ OPERATION MANUAL PAGE 14-6 PAGE 14-9 TO PAGE 14-10 PAGE 14-13
Brake Pedal	Check free play daily to make sure it is within 2.9±0.1 in (73±3 mm)	For adjustment, contact local YANMAR dealer for technical assistance.	READ OPERATION MANUAL PAGE 14-13 TO PAGE 14-14

Yanmar Co., LTD.  
Head Office  
1-32, Chayamachi, Kita-ku, Osaka 530-0013, Japan

Yanmar America Corporation  
101 International Pkwy, Adairsville, GA 30103  
tel: 770.877.9894

[www.YanmarTractor.com](http://www.YanmarTractor.com)

The information in this brochure is accurate as of the date of printing and subject to change. All rights reserved by and belong to Yanmar®.  
©2021 Yanmar America Corporation. 1A8330-95952-11/01

Yanmar has a corporate policy of continuous product improvement and development; therefore data, specifications, and warranty are subject to change without any advance notice. There may be differences between the specifications and illustrations contained in this publication and the actual equipment. Equipment components produced by other manufacturers may be shown in photographs in this publication for the purpose of illustration only and is not intended as an endorsement of that particular equipment or its suitability. Inspect equipment before using it and be sure it is operating properly. The product depictions are not meant to be used or relied upon as a substitute for the safety and use information that is published in the respective operator's manual. Before operating a machine, read, understand, and follow all instructions of the manual and on the machine. Yanmar disclaims all representations, express or implied, or any liability from the use of this publication.



**YANMAR**