

COMPACT UTILITY TRACTOR

MODEL
YM342A
YM347A
YM359A



YANMAR

YM342A YM347A YM359A

QUICK OPERATION AND MAINTENANCE GUIDE



This Quick Guide is a summary of fundamentals of quick operation and is not a substitute for the Operation Manual. Please review Operator Manual for comprehensive instructions and warnings.



HOW TO OPERATE YOUR TRACTOR

Color-Coded Lever Knob

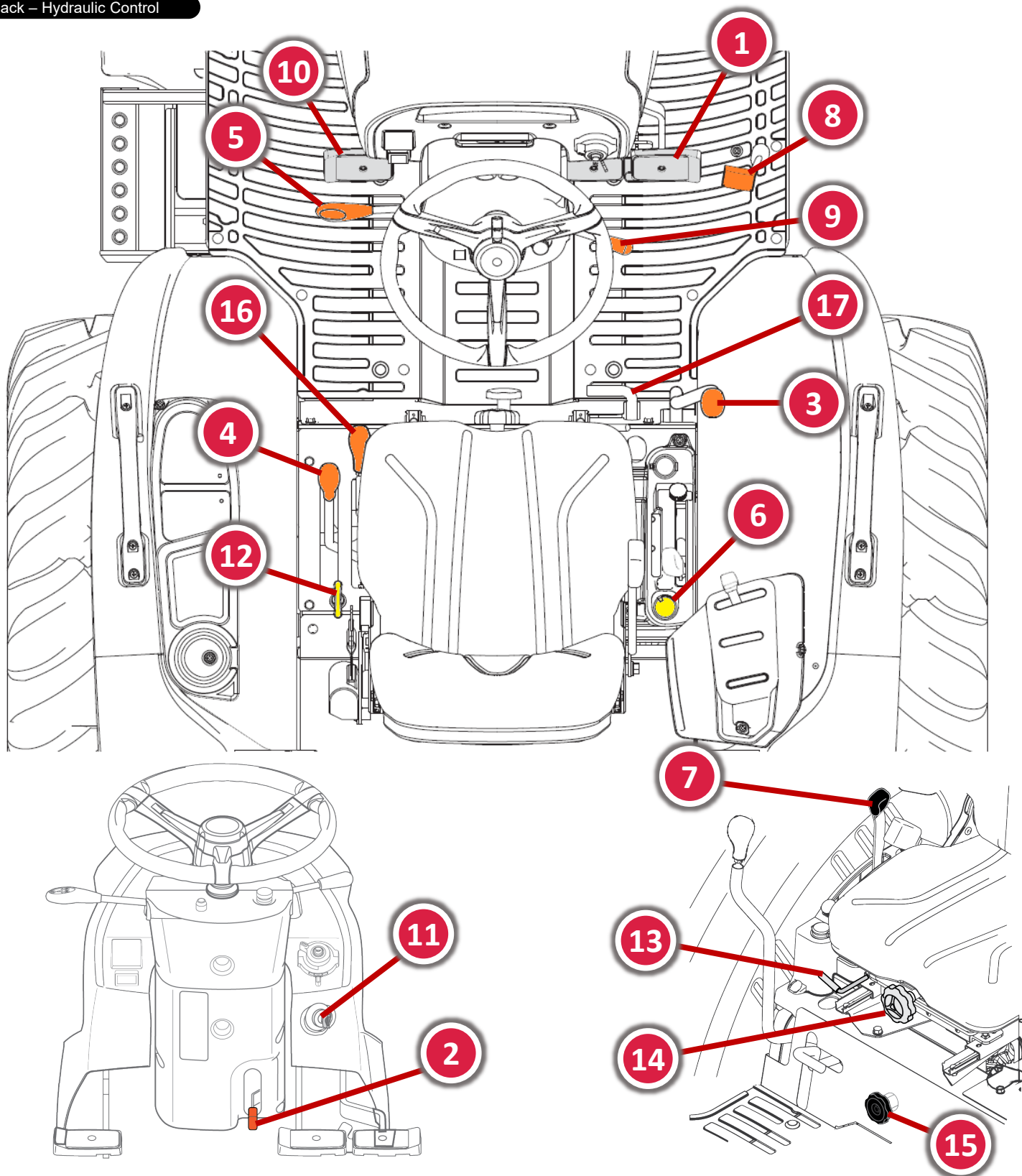
Orange – Control for Travelling

Yellow – PTO Control

Black – Hydraulic Control

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LAMPS & INDICATORS ON METER PANEL

Start Engine

- 1 2 Parking brake set and locked
- 3 4 5 Depress the clutch and shift levers to neutral [N].
- 6 Push and rotate the PTO switch to [OFF]
- 7 Shift 3-point hitch lever forward to lower any attached implements to the ground.
- 8 Foot off of the accelerator pedal
- 9 Push throttle control lever forward to the 1/3 to 1/2 fast positions
- 10 Depress the clutch pedal fully
- 11 Turn the key switch [START]

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PTO Operation

- 12* Select the desired position of the PTO select lever [540E/540]
- 6 Push and rotate the PTO switch to [ON]

* With the tractor in a stationary position, in neutral, and PTO switch off

Note: When the PTO lever is set to 540E (2), the engine speed will decrease if the engine speed is greater than the maximum speed for the 540E selection.

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Travel Speed Control

- 4* Stop the tractor to select the range shift lever [L/H]
- 2 Parking brake released
- 9 Push the throttle control lever forward to increase the engine speed.
- 8 Press or release the accelerator pedal to adjust the travel speed.
- 3* Select gear with main shift lever
- 5* Position reverser lever to forward/backward

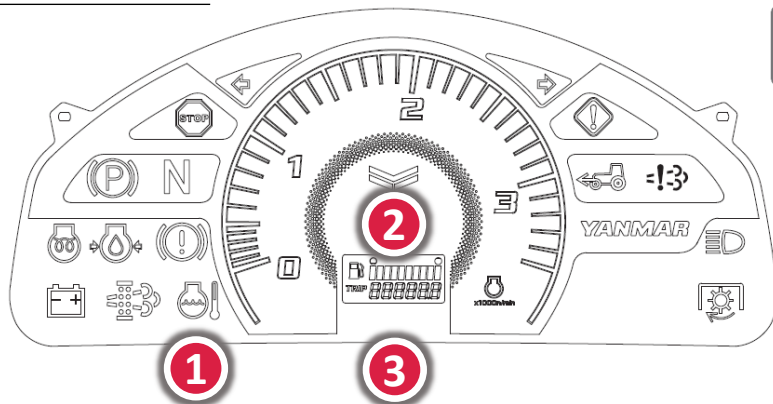
* Depress the clutch

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For More Control

- 7 3-point hitch control lever
- 13 14 Operator seat forward/backward lever and seat suspension knob
- 15 Hydraulic flow control/stop knob
- 16 2WD/4WD lever
- 17 Differential Lock Pedal

Meter Panel



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1. Coolant Temperature Lamp



Solid Green: The engine is in normal operating range.

Flashing Green: The engine is close to overheating.

Solid Red: The engine is overheating. Stop and check for debris blockage on radiator.

Flashing Red: Water temperature sensor failure.

2. Tachometer

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

PTO Selection	Engine speed (rpm)	
	YM342A/YM347A	YM359A
1—540	2783	2430
2—540E	2016	1764

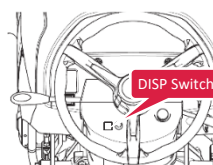
3. LCD (Fuel gauge/Hour meter)

Fuel gauge: Indicate fuel level. When the remaining fuel becomes extremely low, the icon will start blinking.

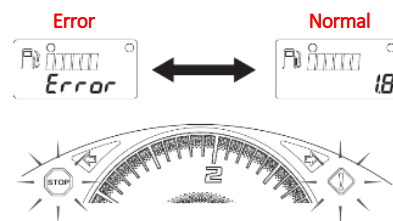
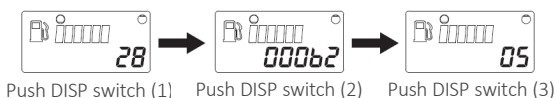
Hour meter: Always check the current engine operating hour for next service intervals.

4. LCD (Error codes)

Error Code: When an error occurs, 'Error' flashes and alternates with the normal display.



Press the DISP switch three times to display the code. Each press displays another element of the code.



Lamps and Indicators



Engine stop lamp

Serious engine trouble is happening.



Parking brake indicator light

Indicate parking brake is engaged.



Glow lamp

Indicate engine air heater is working for cold start.



Engine oil pressure warning light

Engine oil pressure issue is happening.



Charging light

Battery charging issue is happening.



N (Neutral) indicator light

Reverser lever is in the N (Neutral) position.



Caution lamp

Electrical issue(s) is happening. See "Error code".



DPF lamp

Request to perform DPF regeneration. See back page.



Error NCD lamp

Issue is happening at EGR (Exhaust Gas Recirculation) system.



PTO lamp

PTO switch is in the "ON" position.

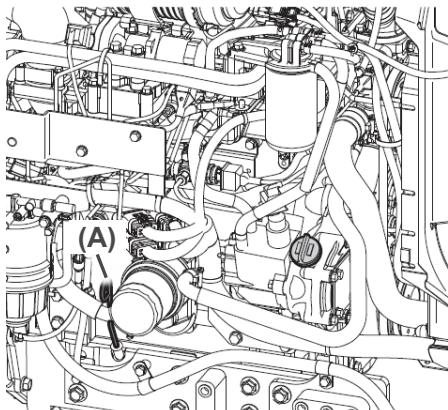


Remark: When turning the Key switch ON, all lamps turn on once. These indicators are not used on the YM3 US Version



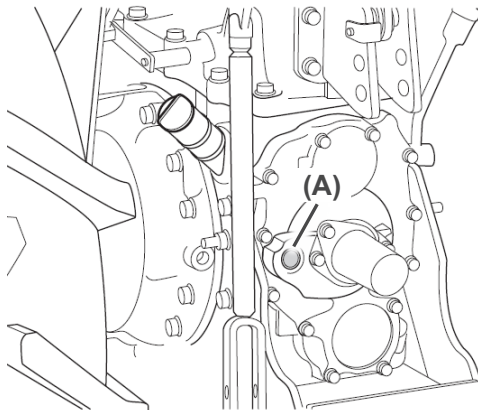
DAILY CHECK ITEMS

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



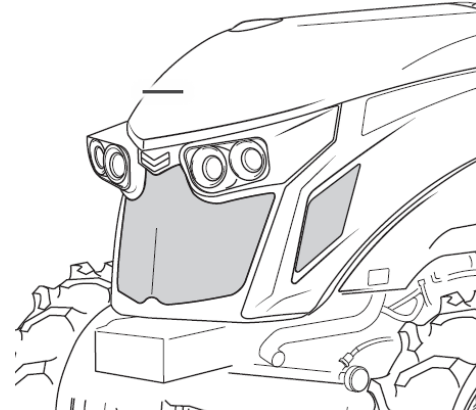
Engine Oil Level

Remove the dipstick (A) and wipe the dipstick with a clean rag. Insert the dipstick completely and remove it to check the oil level. Make sure the oil level is within the upper and lower limits marked on the dipstick.



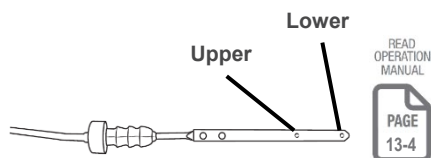
Transmission Oil Level

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.



Grille Screen/Side Screens

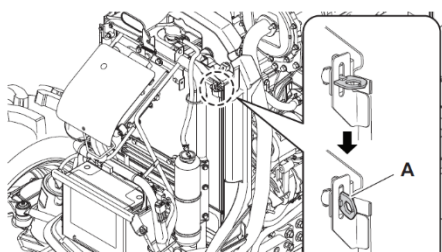
1. Check the grille screen and the side screens for dirt, grass clippings and debris.
2. Clean the grille screen and side screens with a brush or cloth.



(A) Too much	(B) Standard level	(C) Insufficient

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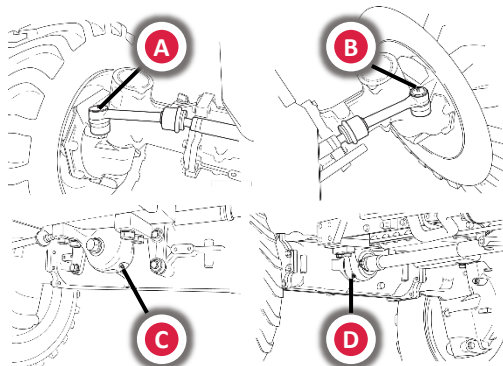
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Radiator Cooling Screen

The radiator cooling screen can be accessed without tool. Release the two latch hooks (A) 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.

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Grease Points

Extremely Wet or Muddy Conditions

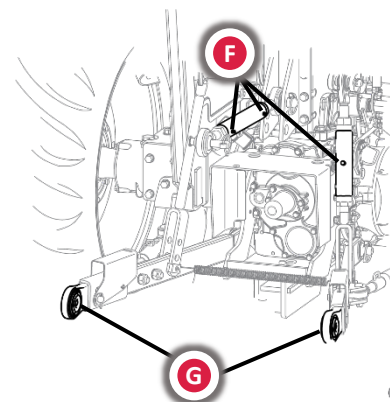
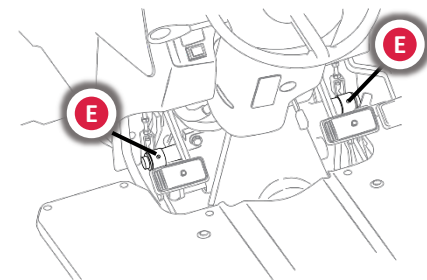
Lubricate the grease fittings once every 10 operating hours or once a day.

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) Front Axle Pivot Pin grease fitting (front)
- (D) Front Axle Pivot Pin grease fitting (rear)
- (E) Brake and Parking Brake linkage
- (F) 3-Point Hitch top link grease fittings
- (G) 3-Point Ball Joints

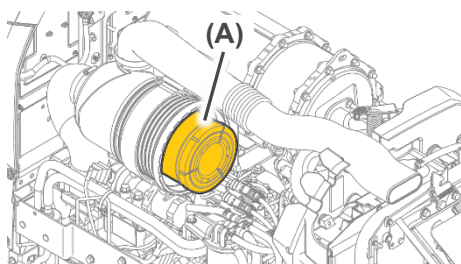


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DAILY CHECK ITEMS

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

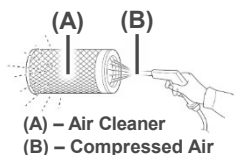


Air Cleaner

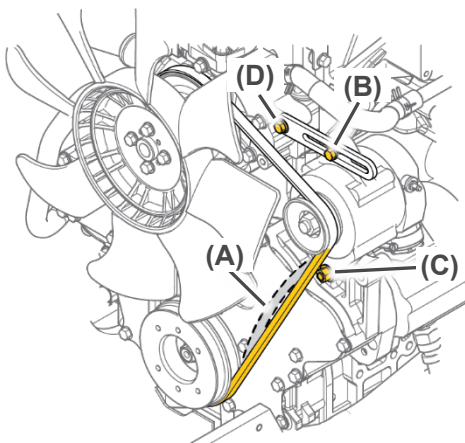
Air cleaner (A) can be accessed without tool. Release the three latch hooks on the air cleaner canister cover and remove the cover. Never wash the filter or attempt to clean the filter by tapping the filter against another object. Apply compressed air from inside of the element to blow away the dust.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

Genuine Parts:

1A8240-05110, (YM342A/YM347A Outer)
1A8240-05120, (YM342A/YM347A Inner)
172B06-11510, (YM359A Outer)
172B06-11520, (YM359A Inner)



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Alternator / Fan Belt

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

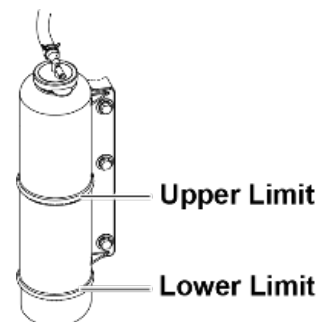
(C) Mounting bolt

(D) Fixing bolt

Genuine Parts:

129A26-42290 (4TNV88C), YM342A/YM347A
129A26-42280 (4TNV98C), YM359A

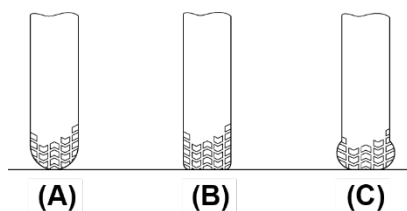
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Coolant

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*.

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(A) – Top high
(B) – Standard
(C) – Too low

Check Tires

Inspect Tires: Check for fissures or any other damage. Use a tire gauge to check the tire pressure. Adjust the tire pressure per the image above.

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	Tire Size	Tire Air Pressure psi (kPa)
Front	R1: 8–16	48 (330)
	R1: 210/95R16	35 (240)
	R3: 27X10.5–15	75 (510)
	R4: 10.00–16.5	55 (380)
Rear	R1: 14.9–24	26 (180)
	R1: 420/85R24	23 (160)
	R3: 44x18–20	20 (140)
	R4: 17.5L–24	20 (140)
	R4: 16.9–24	22 (150)

Check Wheel Bolts

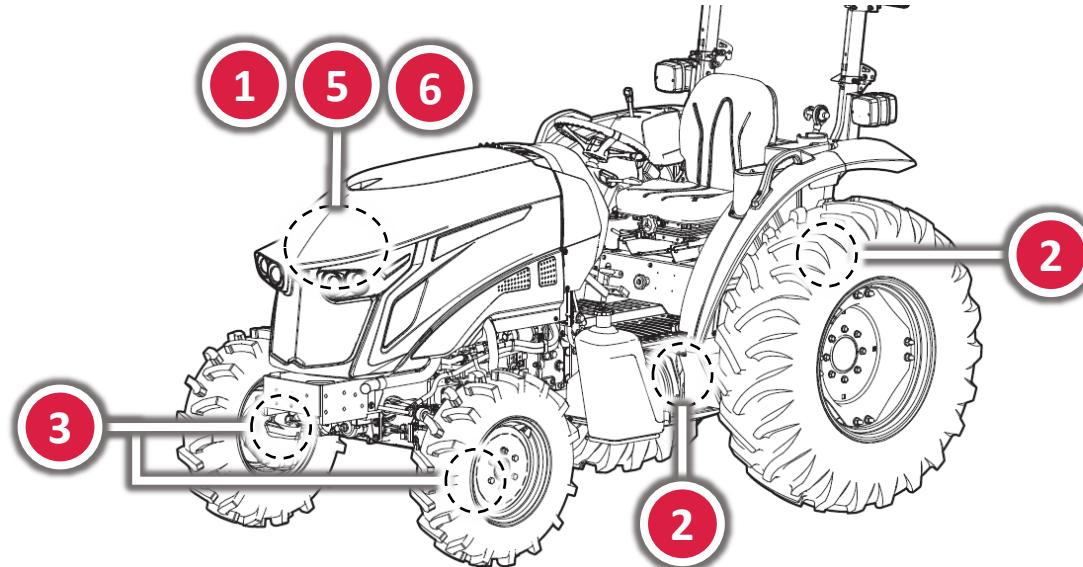
Check Wheel Bolts: Inspect the wheels for loose nuts and bolts.

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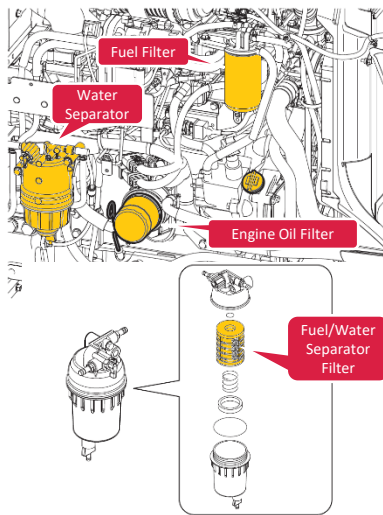


PERIODICAL MAINTENANCE ITEMS

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



1. Engine Oil Filter Fuel Filter / Water Separator



Engine Oil Filter
Service Interval:
Replace every 250 hours,
or once per year.

Genuine Parts:
129150-35170
FILTER ASSY
D68XL65

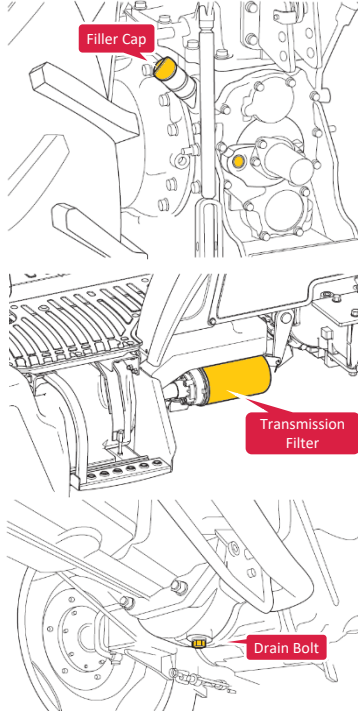


Fuel / Water Separator
Service Interval:
Drain every 50 hours, and
replace every 250 hours,
yearly, or if necessary.

Genuine Parts:
129A00-55730
ELEMENT



2. Transmission Filter and Oil (9.0gal / 34.0L)



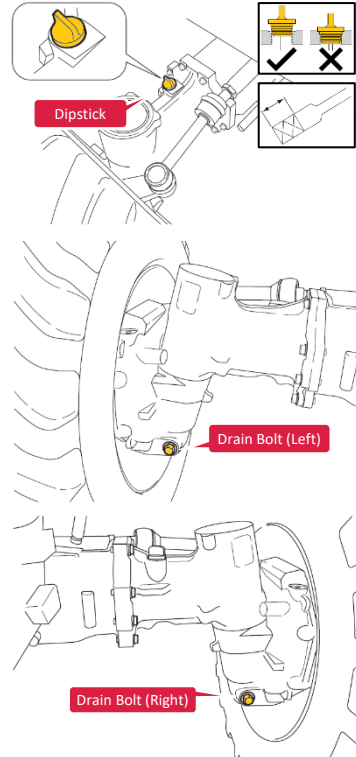
Service Interval:
Replace after the first 50 and
300 hours, then every 300 hours
or yearly.

Genuine Parts:
1A7640-48310
FILTER (Line)

TF500A
Transmission
Fluid (2 gal)



3. Front Axle Gear Oil (2.4gal. / 9.0L)

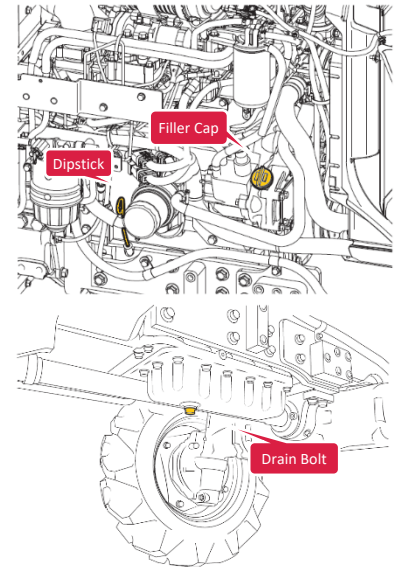


Service Interval:
Check every 50 hours,
Replace after the first 50
and 300 hours, then
every 300 hours
or every year

Genuine Parts:
SAE 90 (1 qt)



4. Engine Oil (YM342A/347A: 5.1qt. / 4.8L) (YM359A: 9.2qt. / 8.7L)

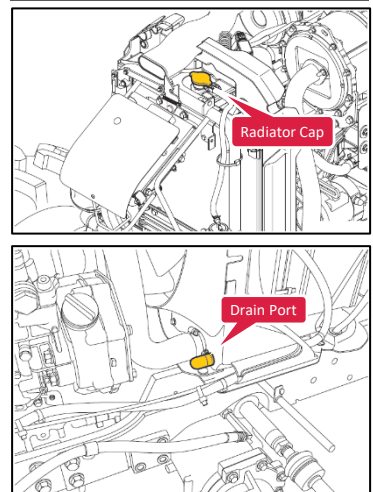


Service Interval:
Replace every 250 hours or
every year.

Genuine Parts:
41540G
(1gal, SAE15W40)



5. Coolant (YM342A/347A: 6.3qt. / 6.0L) (YM359A: 8.1qt. / 7.7L)



Service Interval:
Replace every 2000 hours or
every two years

Genuine Parts:
YG30R (1 gal)

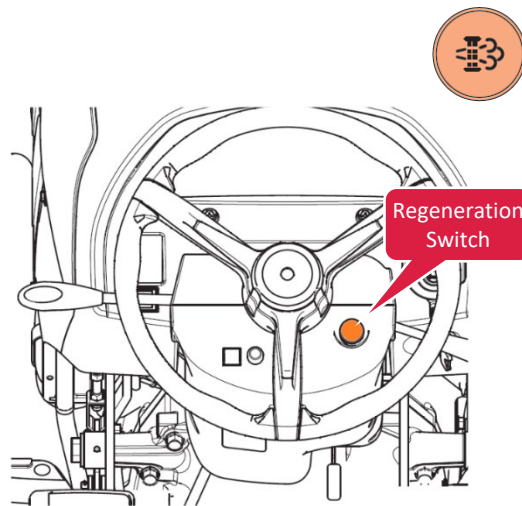


YM342A
YM347A
YM359A

HOW TO OPERATE YOUR TRACTOR

Diesel Particulate Filter Regeneration

Regeneration Mode: The exhaust filter regeneration includes 5 patterns of regeneration modes according to the particulate matter (PM) accumulation amount and operating time. Self-regeneration and assist regeneration are carried on automatically, but reset regeneration, stationary regeneration, and recovery regeneration are to be performed manually. When the exhaust filter regeneration request is shown, always perform the regeneration manually.



Exhaust Filter Maintenance

The exhaust filter accumulates PM that cannot be completely burnt inside the exhaust filter during regeneration. Because of this, maintenance is needed.



Reset Regeneration

Reset regeneration is performed as a routine maintenance item after the first 50 hours and then every 100 hours afterwards. This is also performed when parameters within the exhaust filter have been met.

The exhaust filter regeneration notification icon and the regeneration switch will blink every two seconds. An audible beep will accompany the blink. Press the regeneration switch for five seconds

When the regeneration begins, the buzzer will stop, and the exhaust filter regeneration notification and regeneration switch will remain lit. The lamps will turn off once regeneration is complete.

IMPORTANT:

The reset regeneration must be done during operation.

If it is not done during operation, the regeneration condition will not be met, the regeneration request lamp will stay on, and the regeneration may not end.

If the reset regeneration does not end, please contact your purchased dealer.

Note: At reset regeneration, the condition may not be met when the tractor is stopped or idling. Run the engine at a rated speed during operation or traveling. (Even while stopped, by increasing the engine speed to a rated speed, it will become easier to regenerate.)



Stationary Regeneration

When stationary regeneration is required, the caution (A) and DPF (B) lamps will blink. A buzzer will also sound every second. Perform the following steps:

Park the tractor in a safe place.

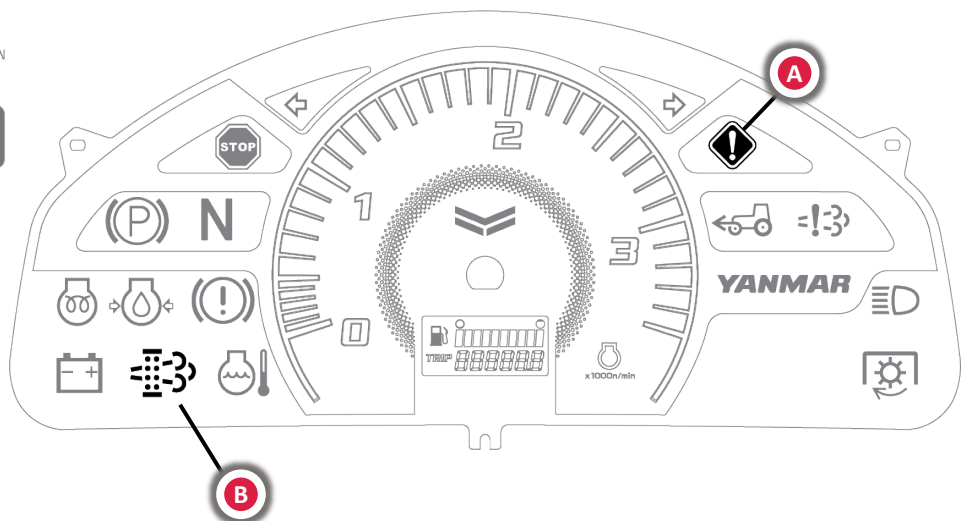
1. Turn the PTO to the 'OFF'.
2. Shift the Reverser lever to neutral.
3. Apply the parking brake.
4. Set the engine speed to low idle.

Once all these conditions have been met the Regeneration Switch will illuminate along with the Exhaust Filter Regeneration and caution lamps. This indicates that the tractor is ready for regeneration.

Note: Normal operations cannot take place during Stationary Regenerations.

Press the regeneration switch for five seconds to start regeneration.

Regeneration will begin, the buzzer will stop, the regeneration switch, caution and exhaust filter regeneration lamps will remain illuminated while regeneration is performed. Once regeneration completes the lamps will turn off.



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 YM342A, YM347A, YM359A

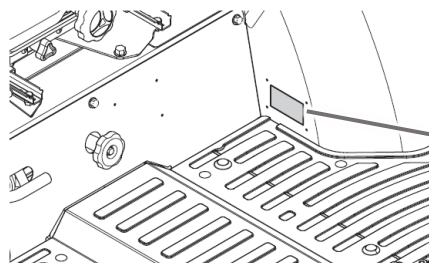
Parts code: **KIT-YM342/YM347A**
KIT-YM359A

Engine oil 15W40 (5 X 1qt—YM342/347A) (9 X 1qt—YM359A), 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.



MODEL	□□□□□□
Product Identification Number	□□□□□□□□□□□□□□□□
ADAIRSVILLE, GA 30103	
YANMAR®	
YANMAR AMERICA CORPORATION	
MADE IN INDIA	

Additional Maintenance Items

Items	Service Intervals	Genuine Part	Reference
Front Grille Screen Radiator Cooling Fins	Clean: Daily	—	READ OPERATION MANUAL PAGE 13-7
Battery and Fuses	Check: Daily Replace: If necessary.	1A8275-51500, BATTERY (YM342A/YM347A) 1A8485-51500, BATTERY (YM359A) 198535-52120, FUSE, 10A 198535-52130, FUSE, 15A 198535-52140, FUSE, 20A 1E8720-83120, FUSE, SLOW BLOW 50A 1E8540-83220, FUSE, SLOW BLOW 60A 198153-51700, FUSE, SLOW BLOW 80A	READ OPERATION MANUAL PAGE 14-5
Power Steering Line, Fuel Lines, Radiator Hoses, and Air Intake Hoses	Check: Daily Replace: Every two years or if necessary.	For replacement, contact local YANMAR dealer for technical assistance.	READ OPERATION MANUAL PAGE 13-7 READ OPERATION MANUAL PAGE 13-9 READ OPERATION MANUAL PAGE 13-28
Brake Pedal	Check free play daily to make sure it is within 1.2–1.6 in (30–40 mm)	For adjustment, contact local YANMAR dealer for technical assistance.	READ OPERATION MANUAL PAGE 13-14

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