



This documentation is for informational purposes only and subjected to change.

Always check YDS for the latest version.

- 1. Maintenance Check list
- 2. <u>Diesel Fuel</u> Specifications
- 3. Lubricants/ coolants
- 4. Replacement Parts



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YT347/YT359 Service manual download

1. Maintenance Check list | Maintenance

			7: By	user	•	: By	auto	rized	YAN	MAR	deal	er or	distr	ibuto	or	
Topic								Ser	vice	Inter	vals					
		Interval		If necessary	FIRST 50 hours	Every 50 hours	Every 250 hours	Every 500 hours	Every 500 hours	Every 1000 hours	Every 1500 hours	Every 2000 hours	Every 3000 hours	Every 6000 hours	Every 9000 hours	Every 1 year
Engine Oil Level	Check	Daily	▼													
Transmission Hydraulic Oil Level	Check	Daily	▼													
Tire Air Pressure	Check	Daily	▼													
Grille	Check	Daily	▼													
Fuel Tank	Check/Refill	Daily	•													
Rubber Dust Unloading Valve	Check	Daily	▼													
	Check	Daily Every 500hr or 2 years *1	▼					•								•
Radiator Hose and Clamp	Replace	If necessary		•												
Radiator Cooling Screen	Check	Daily	▼													
Oil Cooler Screen	Check	Daily	▼													
Safety Systems	Check	Daily	▼													
Radiator Cooling Fins Clean		Every 50 hr			•	•										
Cooling System	Check	Daily	▼													
Coolant	Flush/Change	Every 2000hr or 2 years *1									•					•
Cootunt	Check	Daily Every 500hr or 2 years *1	▼					•								•
Fuel Line	Replace	If necessary		•												
	Check	Daily Every 500hr or 2 years *1	▼					•								•
Power Steering Line	Replace	If necessary		•												
	Check	Daily Every 500hr or 2 years *1	▼					•								•
Retractable seatbelt	Replace	If necessary		•												
Roll-Over Protective Structure	Check	Daily Every 500hr or 2 years *1	•					•								•
(ROPS)	Replace	If necessary		•												
Headlights, Hazard Lights, and all	Check	Daily Every 500hr or 2 years *1	▼					•								•
other lights (lights and/or bulbs).	Replace	If necessary		▼												
	Inspect	Every 50 hr			•	▼										
Fan and Alternator Belt	Adjust	50/250 hr and every 250hr after or every year *1			•		•								•	
	Replace	If necessary		•												
Air Olassas Fl	Check/Clean	Every 250 hr and If necessary *3		•			•									
Air Cleaner Element	Replace	Every 500 hr or every year*1		•				•							•	
Fuses	Replace	If necessary		•												
Battery Condition	Check	Every 50hr			•	▼										
Fuel Filter	Replace	Every 500 hr or every 2 years *1						•								•





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Topic			Service Intervals													
		Interval	Daily	If necessary	FISRT 50 hours	Every 50 hours	Every 250 hours	Every 500 hours	Every 1000 hours	Every 1500 hours	Every 2000 hours	Every 3000 hours	Every 6000 hours	Every 9000 hours	Every 1 year	Every 2 years
	Check	Daily	•													
Fuel/Water Separator	Drain	Every 50 hr and if necessary		•	•	•										
	Replace	Every 500 hr or every 2 years *1						•								•
Wheel Bolt Tightening Torque	Check	After one hour of break -in *2 and every 50 hr Every 250 hr or every 1 year *1			•	•	•								•	
Engine Oil	Change	Every 250 hr or every year *1					•								•	
Engine Oil Filter	Replace	Every 250 hr or every year *1					•								•	
Transmission Hydraulic Oil	Change	50/500 hr and every 500hr after			•			•								
Transmission Hydraulic Oil Filter	Replace	50/500 hr and every 500hr after			•			•								
	Check	Daily Every 500hr or 2 years *1	•					•								•
Hydraulic hose	Replace	If necessary		•												
Grease fittings	Grease	Every 50 hr *4			•	▼										
Toe-in	Inspect/Adjust	50/250 hr and every 250hr after			•		•									
Front Axle Pivot	Grease	Every 50hr *4			•	▼										
Air Intake Hoses and Clamps	Check	50/250 hr and every 250hr after or every year *1			•		•								•	
	Replace	If necessary		•												
Front Axle Gear Oil	Check	Every 50hr			•	▼										
FIUIT Axte Gedi Oit	Change	Every 500hr						•								
Brake	Adjust	Every 500hr						•								
DIAKE	Replace	If necessary		•												
Engine Valve Clearance *5	Adjust	Every 1000hr							•							
Fuel Injection Nozzle *5	Check	Every 3000hr										•				
ECU & related sensors & actuators *5	Inspect	Every 3000 hr or every 2 years *1										•				•
EGR valve *5	Inspect/clean	Every 3000hr										•				
Crankcase breather system *5	Inspect	Every 1500hr								•						
Intake throttle valve *5	Check/adjust	Every 3000hr										•				
DPF DOC and related actuators *5	Inspect	Every 3000hr										•				
DOC *5	Replace	Every 9000hr												•		
Soot filter *5	Clean	At 6000hr and 6000hr after replacement											•			
	Replace	Every 9000hr												•		





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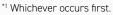
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1. Maintenance Check list | CAB type & attachments

			,	▼: By user •: By autorized YANMAR dealer or distributor										
Topic						Service Intervals								
		Interval		If necessary	FIRST 50 hours	Every 50 hours	Every 250 hours	Every 500 hours	Every 1000 hours	Every 1500 hours	Every 2000 hours	Every 1 year	Every 2 years	
Internal air inlet filter	Clean	Every 250 hours					•							
	Replace	Every 500hr or 2 years *1						•					•	
External air inlet filter	Clean	Every 250 hr and if necessary		▼			•							
	Replace	Every 500hr or 2 years *1						•						
Condenser screen	Clean	Daily	•											
Condenser	Clean	Every 50 hours			•	▼								
Wanna watan pining	Check	Every 500hr or 2 years *1						•					•	
Warm water piping	Replace	If necessary		•										
	Inspect	Every 50 hours			•	▼								
Compressor drive belt	Adjust	50/250 hr and every 250hr after or every year *1			•		•					•		
Wascher Liquid tank	Check/refill	Daily	▼											
Front Lift hydraulic lines. Check for leakages	Check	Daily 50/500 hr and every 500 hr after	•		•			•						
Front lift	Grease	Every 50 hr		▼	•									
Front Lift and front PTO bolts on torque	Check	50/500 hr and every 500 hr after or every 2 years *1			•			•					•	
Front PTO grease nipples	Grease	Every 500 hr						•						
Format DTO constant	Check	Every 250 hr					•							
Front PTO gear oil	Replace	Every 500hr or every year *1						•						
Front PTO oil filter	Clean	Every 500hr or every year *1						•						
FIOUR PTO OR HILLER	Replace	If necessary		•										
Drawban	Grease	Every 50 hr			•	•								
Drawbar	Check	50/500 hr and every 500hr after			•			•						



^{*2} Check the Wheel bolts tightening torque after one hour of break -in.

^{*5} Dealer can find descriptions of this maintenance on YDS (Manual, Bulletin or Service News).



^{*3} At Dusty Conditions: Clean filter once every 50 operating hours.

^{*4} Extremely Wet or Muddy Conditions: Lubricate the grease fittings once every 10 operating hours or once a day.





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2. Diesel Fuel Specifications

2.1. Diesel fuel regulation

Diesel fuel should comply with the EN590:96.

2.2. Additional technical fuel requirement

- Sulphur content not greater than 10 mg/kg (15 mg/kg at point of final distribution)
- · Cetane number not less than 45

2.3. Bio-diesel fuel

In consistency with other global diesel engine manufacturers and diesel fuel injection equipment manufacturers, YANMAR encourages the development of renewable compression ignition fuels

and wishes to clarify our position on the use of biodiesel fuels in YANMAR Industrial Engines.

Non-mineral oil based fuel resources such as RME (Rapeseed Methyl Ester) and SOME (Soybean Methyl Ester), collectively known as FAME (Fatty Acid Methyl Esters), are being used as extenders for mineral oil derived diesel fuels.

After YANMAR conducted the applicability evaluation, YANMAR approves the use of B7 (up to 7 % FAME) Diesel which shall not exceed a blend of 7 % (by volume) of FAME with 90 % (by volume) of approved mineral oil derived diesel fuel in YANMAR Industrial Engines.

YANMAR's limited warranty conditions in case certain engines manufactured by YANMAR are operated with B7 Diesel are as follows:

- 1. YANMAR accepts the use of B7 Diesel only on the conditions that B7 Diesel must comply with "the European standard EN14214 and EN590-2009 (for Oxidation stability)" in Europe.
- 2. Please purchase B7 Diesel only from recognized and authorized diesel fuel suppliers.
- 3. Please use only B7 Diesel including methanol as the above relevant regulations state; otherwise, it may cause corrosion in aluminum and zinc fuel injection equipment components.
- 4. Please use only B7 Diesel contained certain water level as the above relevant regulations state; otherwise, it may cause fuel filters plugged and also may increase bacterial growth.
- 5. Please use only B7 Diesel with low viscosity at high temperatures; otherwise, it may cause problems on fuel delivery, injection pump seizures and poor injection nozzle spray atomization.
- 6. Please check the engine oil level daily. If the oil level rises above the oil level of the previous day, the engine oil needs to be immediately replaced.
- 7. Please check and confirm the quality of B7 Diesel and other fuel tanks before you will start to use it. Please keep daily maintenance during the use of B7 Diesel and do not forget to regularly flush the fuel system and fuel storage containers. You may only use B7 Diesel at least within two (2) months from the time of filling the tank or three (3) months from the time of production by the said fuel suppliers, whichever comes first.

YANMAR does not warrant and is not responsible for any problems caused by the use of the deteriorated B7 Diesel or by the use of the B7 Diesel which do not comply with the above relevant regulations.

Consult your YANMAR tractor dealer before using the recommended biodiesel.

The engine of this machine uses precision parts in the fuel injection parts to comply with emission regulations. When storing fuel to be used, avoid using containers made of zinc plated steel sheet, but use resin or stainless metal containers. If the zinc or lead material melt into the fuel, it may cause engine malfunction.







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3. Lubricants

No.	Locations		Сар	acities		Lubricants			
			Unit	YT347	YT359				
1.	Coolant*		L	6.2	7.6	High Quality Permanent Type Antifreeze (Ethylene Glycol corrosion and rust inhibitor chemicals) Coolant Mixture Ratio Distilled Water 50%: Antifreeze 50%			
2.	Engine cranl	case (with filter)	L	6.6	7.6	ACEA Service Categories E3, E4, or E5 SAE 10W-30 or SAE 10W-40			
3.	Transmissio	ransmission hydraulic oil L		2	9	Hydraulic/Transmission Fluid (TF500A)			
4.	Front axle ca	nt axle case L 9.0		0	SAE 80W-90 gear oil				
		Front axle pivot	No. of greasing point	2	2	Until grease overflows	NLGI GRADE No.2		
5.	Greasing	Tie rod end	No. of greasing point	2	2	Until grease overflows	NLGI GRADE No.2		
		Lift link	No. of greasing point 1 Until grease overflows				NLGI GRADE No.2		

(Specifications and design are subject to change without prior notice for improvement.)

- *Immediately after purchasing the tractor:
- adjust the coolant mixture ratio of the coolant and water to suite the local climate
- ullet the preceding practice assists in making the tractor function efficiently

The coolant can remain unchanged for a period of 2 years if during the period the tractor is operated for less than 2000 hours. if the tractor is operated for more than 2000 hours during the period, the coolant has to be replaced during flushing of the system. After pouring the coolant, run the engine for a short period to mix the two fluids thoroughly.

YANMAR GENUINE LUBRICANTS & COOLANTS

Type & Description	Change int. (h)	Size	Order no.
	YT347 / YT359		
		5 L	10W30-5L
10W-30 Engine oil*	200	20 L	10W30-20L
		208 L	10W30-208L
TF500A Transmission & hydraulic fluid*	600	20 L	TF500A-20L
20M/00 Coon oil	300	1 L	80W90-1L
80W90 Gear oil	300	20 L	80W90-20L
Grease-calcium	50	400 gr	GREASE-CALCIUM
		1 L	COOLANT-1L
0 1 1**	1000 / 0	5 L	COOLANT-5L
Coolant**	1000/ 2 years	20 L	COOLANT-20L
		208 L	COOLANT-208L

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4. Replacement parts

For a copy of the Illustrated Parts List or the Technical Manual of the tractor, contact your local YANMAR Tractor dealer. Only use the YANMAR authentic parts. Non-authentic parts can cause serious damage and accidents.

Item	Part Number							
	YT347	YT359						
Engine Oil Filter	129150-35153							
Transmission Hydraulic Oil Filter	198535-48080							
Line Filter	1A7180-48210							
Outer Filter	1A8240-05110	172B06-11510						
Inner Filter	1A8240-05120	172B06-11520						
Fuel Filter Element	129A2	3-55800						
Fan Belt	129940-42290	CAB: 123658-42290 ROPS: 129957-42290						
10 Amp Fuse	19853	5-52120						
15 Amp Fuse	198535-52130							
20 Amp Fuse	198535-52140							
40 Amp Fuse	1A6780-52430 / 1A6780-52440							
50 Amp Slow Blow Fuse	1D2310-06080							
60 Amp Slow Blow Fuse	1E8540-83220							
80 Amp Fuse	1A6780-52470							
25 Amp Fuse (CAB only)	1A7450-52180							
Battery	1A825	4-51500						
Headlights Bulb	1A8475-53210							
Turn Signal/Hazard Lights Bulb (CAB) (Front/Rear)	1A8060-53410 / 1A8484-53610							
Turn Signal/Hazard Lights Bulb (ROPS) (Front/Rear)	1A8060-53410 / 1E9170-81270							
Tail Lights Bulb (CAB) (Rear)	1A7335-53610							
Tail Lights Bulb (ROPS) (Rear)	1A7400-53530							
Position Lights Bulb (CAB, ROPS)	1A8060-53420							
Compressor Belt	25132-005700	25132-006700						



Easy ordering and part kits overview

Order all the parts you need for the required maintenance intervals of your YANMAR Tracor easy and fast with the Tractor Maintenance Kits overview.



Save 10% on parts by ordering service kits



Navigate to the desired maintenance interval with one click



Easy ordering with copying and pasting the kit number in YDS



Clear overview of all maintenance intervals and required parts per tractor



Direct links to the parts catalogue, the maintenance and service manual for your YANMAR tractor



