

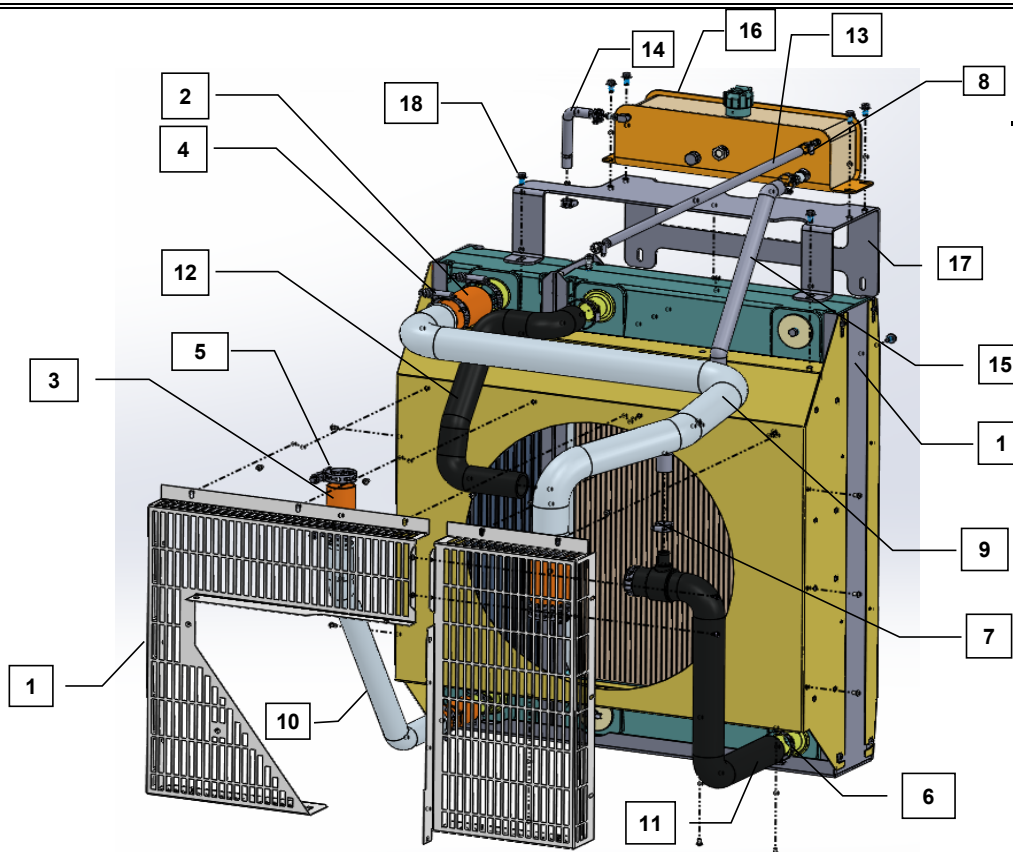


Supplement to Yanmar Kit Installation Instructions

SAFETY

This product is designed and intended only for use with a YANMAR engine. All safety and warning information contained in the Yanmar Operation Manual and Service Manual is adopted and incorporated to apply to the components, accessories, and parts that are utilized with Yanmar engines. Follow all instructions and precautions before installing this product, before operating, during operation, and during periodic maintenance procedures for your safety, the safety of others, and to protect the performance of your engine.

Item	Lev.	O	Part No.	Description	Quantity	Remarks
1			129F88-44500	Radiator Assembly	1	
2			129F88-44370	CAC Coupling, 63.5 ID x 88.9	2	
3			129F88-44380	CAC Coupling, 44.45 ID x 70	2	
4			129F88-44390	Clamp, Hose, 57-79 mm OD	4	
5			129F88-44400	Clamp, Hose, 32-54 mm OD	4	
6			129F88-12030	Clamp, Hose, 33-57 mm OD	4	
7			129F88-44420	Clamp, Hose, 17-32 mm OD	2	
8			129F88-44430	Clamp, Hose, 11-20 mm OD	4	
9			129F88-44440*	CAC Upper Piping, 63.5 mm OD	1	
10			129F88-44450*	CAC Lower Piping, 45.5 mm OD	1	
11			129F88-44460*	Bottom Hose, 45 mm ID	1	
12			129F88-44470*	Top Hose, 40 mm ID	1	
13			129F88-44490	Hose, Degas Tank	1	
14			129F88-44510	Hose, Degas Tank	1	
15			129F88-44480	Hose, Degas Return	1	
16			129F88-44600	Degas Tank Assembly	1	
17			129F88-44610	Bracket, Degas Tank	1	
18			129689-44290*	Bolt, M8 X 1.25 - 16	8	



MODELS
4TNV94FHT-NYEA2

Note: Service parts are denoted by an asterisk. To replace non-service parts, the entire kit will need to be purchased.



Installation Instructions

Hand tighten all bolts and nuts until assembly is completed, then torque according to specifications in Table 1. The numbers in () represent the item numbers.

WARNING: DO NOT RUN ENGINE WITHOUT COOLANT IN RADIATOR.

1. Remove Fan Guard (1) that is already on the Radiator Assembly and place it around the cooling fan on the engine. The fan guard is two piece so it can be installed without removing engine cooling fan, Reinstall the two M5 bolts (1) to reconnect two halves after placing around fan.
2. Install Radiator (1) to the Radiator Mounting Kit using 1/2 X 13 - 2.75" bolts and 0.5 X 2.0 X 0.125" washers provided with the Radiator Mounting Kit.
3. Mount Fan Guard to the Radiator (1) using M5 X 0.8 bolts (1).
4. Using Upper Support and M8 X 1.25 - 16mm bolts from Radiator Mounting Kit, fasten the Radiator (1) to the Upper Mount from the Radiator Mounting Kit.
5. Adjust the Radiator Assembly and support assembly to align the center of the cooling fan with the center of the Radiator (1). Tighten the Radiator Mounting Kit bolts.
6. Attach the Top Radiator Hose (12) to the inlet of Radiator (1) and the top of the water pump with Hose Clamps (6). Attach the Bottom Radiator Hose (11) to the outlet of Radiator and the inlet of water pump with Hose Clamps (6).
7. Attach the Upper CAC Piping (9) to the top port of CAC and the intake throttle using CAC Coupling (2) and Clamps (4). Attach the Lower CAC Piping (10) to the bottom port of CAC and the turbo inlet using CAC Coupling (3) and Clamps (5).
8. Install the Degas Tank Bracket (17) on top of the Radiator Assembly (1) using M8 X 1.25 - 16 bolts (18). Mount the Degas Tank Assembly (16) on the Degas Tank Bracket (17) using M8 X 1.25 - 16 bolts (18).
9. Attach the Degas Tank Hose (14) to the Degas Tank Assembly (16) and the Radiator Assembly (1) using Hose Clamps (8). Attach the Degas Tank Hose (13) to the Degas Tank Assembly (16) and the Dosing Module outlet port on the Engine Aftertreatment using Hose Clamps (8).
10. Attach the Return Degas Tank Hose (15) to the bottom of the Dega Tank Assembly (16) and the Bottom Radiator Hose (11) using Hose Clamps (7).
11. Tighten all remaining bolts and nuts according to specification in Table 1.
12. Add antifreeze, using a 50:50 mixture, into the Radiator. After running the engine for a few minutes, add more antifreeze mixture if necessary.

NOTE: Comply with torque standards in the table to avoid unexpected damage during installation or in the future.

Table 1: Standard Nut and Bolt Tightening Torque			
Diameter x Pitch	Kgf-m	Foot-lbf	N-m
M5 X 0.8	0.7 ~ 0.9	4.8 ~ 6.3	6.5 ~ 8.5
M8 X 1.25	1.5 ~ 2.9	10.6 ~ 20.9	14.4 ~ 28.3
1/2 X 13	7.9 ~ 10.1	57 ~ 73	77.3 ~ 98.9
Radiator Hose Clamps	0.45 ~ 0.52	3.3 ~ 3.8	4.5 ~ 5.1
CAC Hose Clamps	1.7 ~ 2.5	12 ~ 18	16.2 ~ 24.4