



YANMAR CO., LTD.
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Supplement to Yanmar Kit Installation Instructions

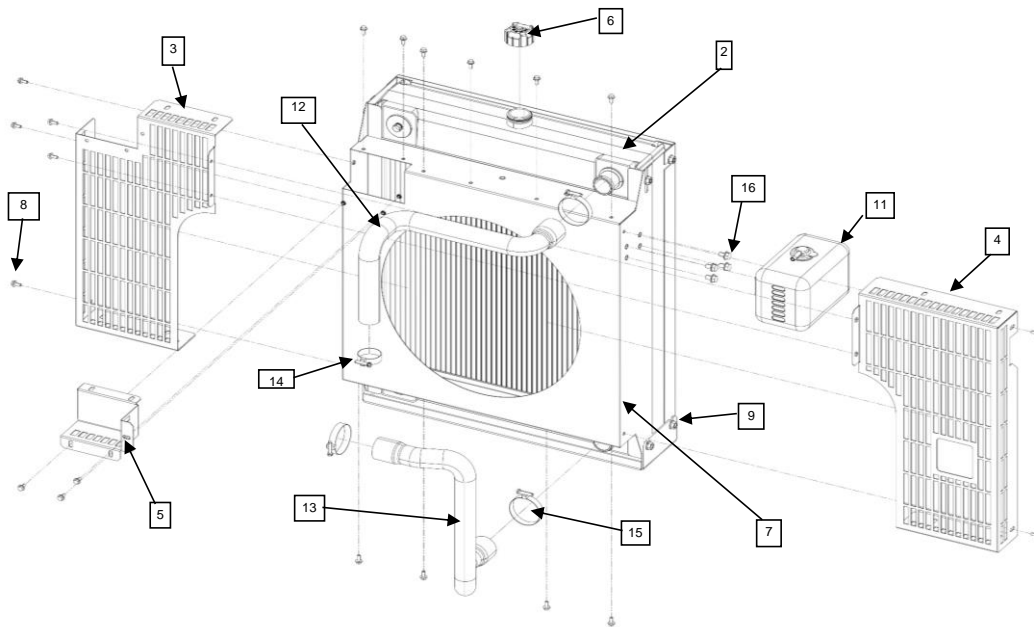
SAFETY

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.



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Item	Lev.	O	Part No.	Description	Quantity	Remarks
1	-		129C90-44110	RADIATOR KIT, KR21	1	not numbered in diagram
2	--		129C90-44110	RADIATOR ASSY	1	
3	---		129C90-44560	GUARD, FAN	1	
4	---		129C90-44570	GUARD, FAN	1	
5	---		129C90-44580	GUARD, FAN	1	
6	---		119E34-44600*	CAP, RADIATOR	1	
7	---		129C90-44600	SHROUD, RAD FAN	1	pre-installed on the radiator
8	---		26106-050122	BOLT, 5 X 12	20	
9	---		129689-44280	NUT, M8	8	pre-installed on the radiator
10	--		129C90-49490*	HOSE KIT, RADIATOR	1	not numbered in diagram
11	---		129C90-44120*	TANK, RESERVE	1	
12	---		129C90-49200	HOSE, RAD UPPER	1	
13	---		129C90-49210	HOSE, RAD LOWER	1	
14	---		23000-041000	CLAMP, HOSE 41	1	
15	---		23000-060000	CLAMP, HOSE 60	3	
16	---		26106-080122	BOLT, 8 X 12	4	
17	---		129987-44610	OVERFLOW BOTTLE HOSE	1	shown on Page 2, Picture 1



MODELS
4TNV88D

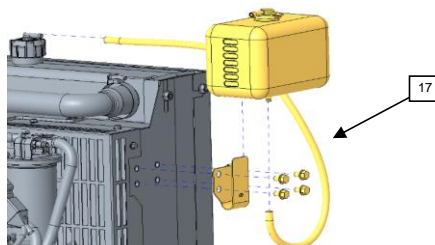
Notes: Service parts are denoted by an asterisk. To replace non-service parts, the entire kit will need to be purchased.
Overflow bottle hose shown in Picture 1 on Page 2.

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. Dissassemble Fan Guard (3, 4, & 5) from Radiator Assembly by removing qty17 M5x.08-12 bolts (8). Do not separate Fan Guard 5 from Fan Guard 3. Retain all hardware.
2. Reinstall the Fan Guard (3, 4, & 5) around the engine mounted fan using qty2 M5x0.8-12 bolts (8).
3. Install the Radiator (2) on to the radiator mount kit (KRM9A) isolators using qty2 washers (0.5 x 2.0 x 0.125) and bolts (1/2"x13 -2 1/2") included in the KRM9A kit.
4. Install Fan Guard (3 & 4) on to Radiator (2) using qty15 M5x0.8-12 bolts (8).
5. Assemble the top radiator mount from KRM9A (129C90-44100) to the Radiator (2) and front lift hook using hardware and isolator from the KRM9A kit.
6. Attach the Upper Radiator Hose (12) to the Radiator top tank using the 60mm Hose Clamp (15) and attach to the engine's thermostat cover using the 41mm Hose Clamp (14).
7. Mount the Lower Radiator Hose (13) to the radiator bottom tank using the 60mm Hose Clamp (15) and connect to the engine's water pump using the 60mm Hose Clamp (15).
8. Mount the Overflow Bottle (11) to the Radiator (2) by using qty4 M8x1.25 - 12 bolts (16) and the bracket attached to the Overflow Bottle. Slide the Overflow Bottle back over the bracket once installed to the Radiator. Refer to Picture 1 below.
9. Install the Overflow Bottle Hose (not numbered) to the Radiator Cap (6) and nozzle on the bottom of the Overflow Bottle (11). Refer to Picture 1 below.
10. Add antifreeze, using a 50:50 mixture, into the Radiator. After running the engine for a few minutes, add more antifreeze mixture if necessary.



Picture 1: Overflow Hose Routing

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