



Supplement to Yanmar Kit Installation Instructions

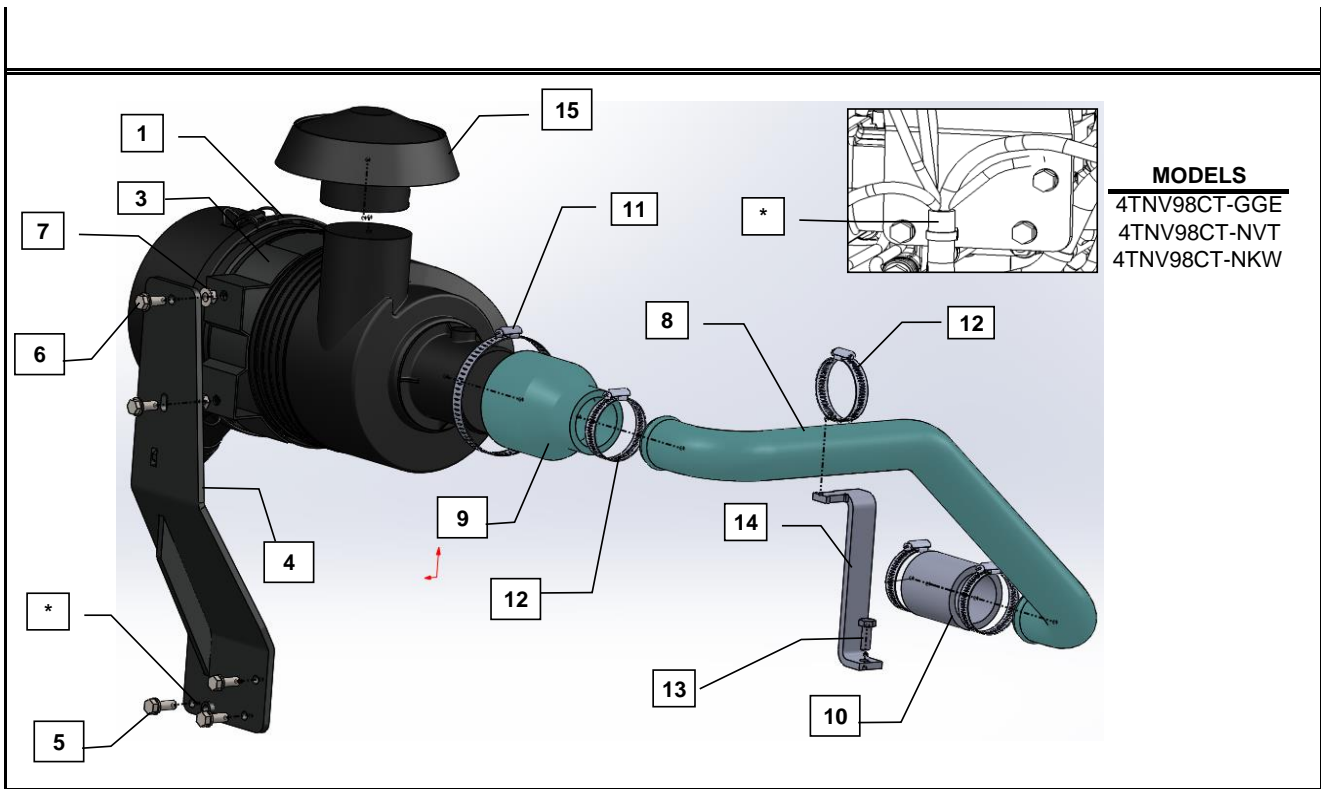
SAFETY

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.

Kit Name: KAC20



Item	Lev.	O	Part No.	Description	Quantity	Remarks
1	--		129989-12750	Air Cleaner Assy	1	
2	---		123987-12510*	Element, a/c	1	
3	--		123987-12570*	Band, Air Cleaner	1	
4	--		129989-12580*	Bracket, Air Cleaner	1	
5	--		26013-080222*	Bolt, M8 X 1.25 - 22, (Captive Spring Lock Washer)	3	
6	--		26106-080202*	Bolt, M8 X 1.25 - 20, (Flanged hex head)	2	
7	--		26366-080002*	Nut, M8 X 1.25, (Flange)	2	
A			129989-12240*	Intake hose kit	1	
8	--		129989-12250	Pipe, Intake, 44.5 OD	1	
9	--		129989-12930	Hose, Connector, 46 ID, 76.2 ID	1	
10	--		129989-12930	Hose, Coupler, Intake, 46mm ID x 67mm	1	
11	--		129989-12910	Clamp, Hose, Worm-Drive, 84-108 OD	1	
12	--		129989-44200	Clamp, Hose, Worm-Drive, 40-64 OD	4	
13	--		129989-12900	Hex Cap Screw, M8x1.25x22	1	
14	--		129989-12920	Support, Bracket	1	
15	--		123987-12600	Rain Cap Assy	1	



MODELS
 4TNV98CT-GGE
 4TNV98CT-NVT
 4TNV98CT-NKW

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

Remarks: Kit includes Donaldson part number label.
 * Re-attach wiring harness at this location



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.

1. Fasten the Air Cleaner Band (3) onto the Air Cleaner Bracket (4) using M8x1.25-20 bolts (6) and M8 Flange Nuts (7).
2. Assemble Air Cleaner Band (3) and Bracket (4) assembly to the intake manifold with M8x1.25-22 bolts (5). The wiring harness will need to be removed from the mounting location and reassembled later. Take care to remove the "x-mas type" retainer clip in it's entirety.
3. Open the Air Cleaner Band (3) by removing the bolt and spring fastener from the assembly. Remove the Air Cleaner Cover and Element (2) from the Air Cleaner (1). This will allow the Air Cleaner (1) to slide into the Air Cleaner Band (3).
4. Insert the Air Cleaner (1) in the Band (3) and position in the recess provided on the Air Cleaner. Fasten it with the bolt, spring, and nut that came with the Band. Reinstall the Air Cleaner Cover and adjust the orientation so the dust collector is positioned downward between the 5 and 8 o'clock position.
5. Fasten the small diameter of the Air Cleaner Hose (8) to the intake manifold using Hose coupler (10) and Hose Clamp (12). Fasten the large diameter end of the Hose to the Air Cleaner (1) using Hose Connector (9) and Hose Clamp (11).
- 6 Provide support to Air Cleaner Hose (8) by placing the Support Bracket (14). The one end of the Support Bracket should be fastened on the radiator mounting bracket using M8X1.25X22 bolt (13) and the other end should be fastened to the Air Cleaner Hose (8) using Clamp (12).
- 7 Fasten the Rain Cap (15) to the inlet of Air Cleaner (1) using the clamp that comes with the Rain Cap.
- 8 Install the Air Cleaner Label on the Air Cleaner (1) or a piece of equipment in the area of the Air Cleaner. Be sure Label is visible and is not placed on the Air Cleaner Cover.
- 9 Re-insert the "x-mas" type harness clip at the position marked *.

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

Table 1: Tightening Torque

Diameter x Pitch	Kgf-m	Foot-lbf	N-m
M8 x 1.25	1.5 ~ 2.9	10.6 ~ 20.9	14.4 ~ 28.3
Worm Clamp	0.46 ~ 0.52	3.32 ~ 3.76	4.5 ~ 5.1