



YANMAR CO., LTD.
YANMAR AMERICA CORP.

Item	Lev.	O	Part No.	Description	Quantity	Remarks
1	-		129946-59050	Supply, and Return hose, to fuel tank	2	
2	--		129946-59550	Fuel Oil Hose	2	
3	--		124766-59050	Clamp, hose 12	4	
4	-		119546-59030	Hose from Fuel feed pump to Filter	1	
5	--		119546-59530	Fuel Oil Hose	1	
6	--		124766-59050	Clamp, hose 12	2	
7	-		129236-59000	Hose from Fuel Filter to Injection pump	1	
8	--		129236-59500	Fuel Oil Hose	1	
9	--		124766-59050	Clamp, hose 12	2	
10	--	X	129044-59100	Protector, pipe 15	1	
11	-		119546-59210	Hose from Injection pump to Fuel Filter	1	
12	--		119546-59510	Fuel Oil Hose	1	
13	--		124766-59050	Clamp, hose 12	2	
14	--	X	129961-59110	Protector, pipe 15	1	
15	-		119546-59300	Fuel Injection pump to Fuel Injection nozzle	1	
16	--		119416-59510	Fuel Oil Hose	1	
17	--		124060-77680	Clamp, hose 10	2	
18	--	X	119546-59700	Protector, pipe 13.2	1	
19	-		24316-000440	Fuel Oil Filter O-ring 44mm	1	
20	-		24316-000440	Fuel Water Seperator O-ring 44mm	1	
21	-		INS-M368GS-BI-0010	Instructions for B20	1	

MODELS
3TNM68, 72



Installation Instructions

Whenever Bio-fuel of any concentration is used, all of the rubber parts in contact with fuel must be compliant with the fuel used. This kit is compliant with B-20 and lesser concentrations. Refer to service manual for priming the fuel system.

Note: THE FOLLOWING INSTRUCTIONS COVER "GENERAL INSTALLATIONS", IT IS THE END USERS RESPONSIBILITY TO IDENTIFY ALL RUBBER COMPONENTS THAT COME IN CONTACT WITH THE FUEL AND VERIFY B-20 COMPLAIANCE OR REPLACE THEM AS NECESSARY. ITEMS SUCH AS: FUEL COOLERS, TANKS, LEVEL SENDERS, CAPS AND O-RINGS, SECONDARY TANKS, TEES, SHUT-OFF VALVES, FUEL PUMPS, NON YANMAR SUPPLIED

Replace Supply and Return lines:

- Using the hose clamps provided, replace the fuel supply line from the tank to the Water Separator [1] using one of the supplied p/n 129946-59050, cut to appropriate length.
- Replace the fuel supply line from the Water Separator to the fuel feed pump [1] using one of the supplied p/n 129946-59050, cut to appropriate length.
- Replace the fuel return line from the filter to the tank [1] using the second supplied p/n 129946-59050, cut to appropriate length, Using the hose clamps provided.
- Replace the fuel line from the feed pump to the filter [4] using p/n 119546-59030, the chart below is provided to help clarify.

If the supplied hoses are not long enough, you may purchase commercially available B-20 compliant bulk hose of the proper size and dia. and cut it to fit

Item	Fuel Contact	Part number
1	From tank to water separator	129946-59050
1	From water separator to fuel feed pump	129946-59050
1	From fuel filter to tank	129946-59050
4	From fuel feed pump to fuel filter	119546-59030

Replace engine feed and return

- Using the hose clamps provided, install supply fuel line [7], p/n 129236-59000 from the fuel filter to the fuel injection pump , then connect the return fuel line [11] p/n 119546-59210 from the fuel injection pump to the fuel filter.
- Replace the fuel hose [15] p/n 119546-59300 from Injection pump to the Injection nozzles, using the hose clamps provided.

Item	Fuel Contact	Part number
7	From fuel filter to injection pump	129236-59000
11	From injection pump to fuel filter	119546-59210
15	From fuel injection pump to fuel injection nozzle	119546-59300

Replace seals

- Remove O-rings [19], and [20] then refer to the diagram, and the Chart below for specific Water separator requirements. Choose the correct O-ring and install in filter and separator.

Item	Water Separator PN	O-Ring PN	Size	Tier	Description
19	119833-55620	24316-000440	44mm	Tier 4	Use 44mm O-ring for Fuel Oil Filter p/n 119833-55620
20	129335-55700				Use 44mm O-ring for Water separator p/n 129335-55700

NOTE:

- If application uses the integrated mechanical feed pump located on the injection pump, remove the mechanical feed pump, and install Fuel Pump Cover Assembly p/n 129255-52000, installing the Gasket p/n 129155-52051 first, then the cover p/n 129100-52200 using the existing; nuts, studs, and washers. install the fuel feed pump p/n 119225-52102, accorindg to the diagram.
- If the application is gravity fed or uses Yanmar p/n #119225-52102, then install Fuel Pump Cover Assembly p/n 129255-52000, installing the Gasket p/n 129155-52051 first, then the cover p/n 129100-52200 using the existing; nuts, studs, and washers.
- If application is using a customer supplied electric feed pump then user must verify B-20 compliant components as required.

