



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	-		129946-59040	Hose from Fuel feed pump to Filter	1	
5	--		129946-59540	Fuel Oil Hose	1	
6	--		124766-59050	Clamp, hose 12	2	
7	-		119546-59210	Hose from Fuel Filter to Injection pump	1	
8	--		119546-59510	Fuel Oil Hose	1	
9	--		124766-59050	Clamp, hose 12	2	
10	--	X	129961-59110	Protector, pipe 15	1	
11	-		119546-59220	Hose from Injection pump to Fuel Filter	1	
12	--		119546-59520	Fuel Oil Hose	1	
13	--		124766-59050	Clamp, hose 12	2	
14	--	X	129957-59101	Protector, pipe 15	1	
15	-		129636-59561	Fuel Injection pump to Fuel Injection nozzle	1	
16	--		129636-59661	Fuel Oil Hose	1	
17	--		124060-77680	Clamp, hose 10	2	
18	-		24326-000750	Fuel Water Seperator O-ring 75mm	1	
19	-		24316-000160	Fuel Water Seperator O-ring 16mm	1	
20	-		24316-000070	Fuel Water Seperator O-ring 7mm	1	
21	-		24326-000650	Fuel Water Seperator O-ring 65mm	1	
22	-		129486-59581	From Injection nozzle to Injection nozzle	3	
23	--		129486-59521	Fuel Oil Hose	3	
24	--		124060-77680	Clamp, hose 10	6	
25	-		119593-59581	Injection Nozzle Cap	1	
26	-		124060-77680	Clamp, hose 10	1	
27	-		INS-V484BGS-BI-0010	Instructions for B20	1	

MODELS
4TNV84, 88



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 COMPLIANCE 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:

1. 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.
2. 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.
3. 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.
4. Replace the fuel line from the feed pump to the filter [4] using p/n 129946-59040, 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	129946-59040

Replace engine feed and return

4. Using the hose clamps provided, install supply fuel line [7], p/n 119546-59210 from the fuel filter to the fuel injection pump , then connect the return fuel line [11] p/n 119546-59220 from the fuel injection pump to the fuel filter.
5. Replace the fuel hose [15] p/n 129636-59561 from Injection pump to the Injection nozzles, using the hose clamps provided.

Item	Fuel Contact	Part number
7	From fuel filter to injection pump	119546-59210
11	From injection pump to fuel filter	119546-59220
15	From fuel injection pump to cylinder head	129636-59561

Replace seals

6. Remove O-rings [18 or 21],[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 separator.

Item	Water Separator PN	O-Ring PN	Size	Tier	Description
18	129242-55700	24326-000750	75mm	Tier 3	Use 75mm O-ring for Tier 3 Water separator p/n 129242-55700
18	129245-55700				Use 75mm O-ring for Tier 3 Water separator p/n 129245-55700
19	ALL	24316-000160	16mm	ALL	Use 16mm O-ring for all Yanmar water separators
20	ALL	24316-000070	7mm	ALL	Use 7mm O-ring for all Yanmar water separators
21	119802-55700	24326-000650	65mm	Tier 2	Use 65mm O-ring for Tier 2 Water separator p/n 119802-55700
21	129906-55700				Use 65mm O-ring for Tier 2 Water separator p/n 129906-55700

Replace Injection Fuel return lines

7. Using the hose clamps provided, install injector fuel line [22], p/n 129486-59581 between fuel injection nozzles, then connect the injection nozzle cap [25] p/n 119593-59581, making sure that the hose clamp [26] p/n 124060-77680 is securely fastened.

Item	Fuel Contact	Part number
22	From injection nozzle to injection nozzle	129486-59581
25	From injection pump to fuel filter	119593-59581
26	From fuel injection pump to fuel injection nozzle	124060-77680

