

Supplement to Yanmar Kit Installation Instructions

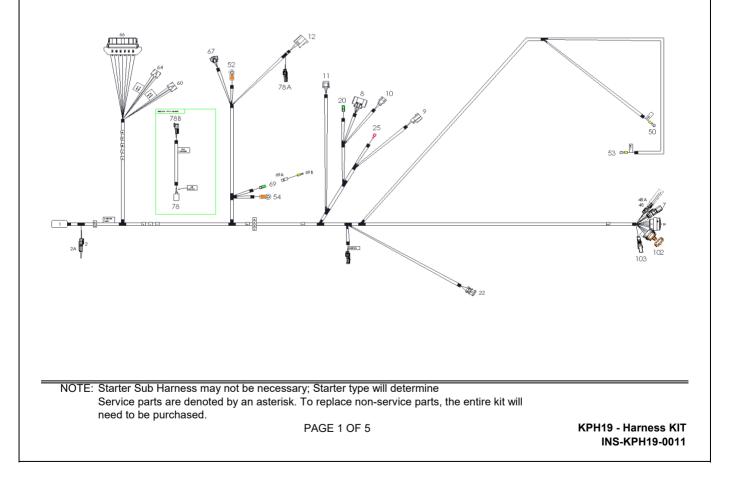
SAFETY

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	Part No.	Description	Quantity	Remarks
1	119E33-91120	Main Harness Assembly	1	
2	172B02-17150*	CA Type Relay	2	Included w/ engine
3	-	80A, 12V Relay	2	Included w/ harness
4	-	Starter Sub Harness	1	Included w/ harness
5	129927-91200*	Atmospheric Pressure Sensor	1	Included w/ the engine as loose part



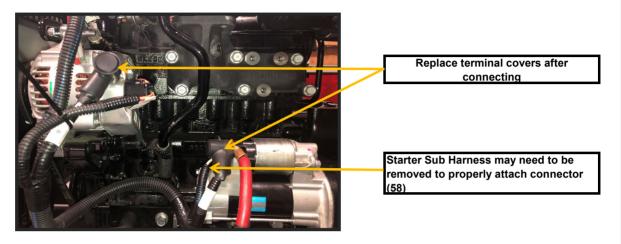


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NOTE:		ard specification engine in the lo	with the harness kit. The main relations of the second second second second second second second second second	
		Please see the next pa	age for detailed installation instructi	ons.
ARINING:		ing will cause premature failure	connecting either the positive or ne of electronic components. Also, ne	5
NOTE:	In the event that the		ended, never use scotch locks or bu ed wires must be soldered and seale	
		Remote Mounte	ed ECU Applications:	
	guidelines:	t remotely mount the ECU within	n the wire harnesses reach please u	
	 Install the ECI Install the ECI 	J in a location that is well ventila	to steam or high-pressure water fo ted and not subject to direct sunligh wnward. Failure to do so may trap	it.
Refer to I	4- Ensure no wa corrode conne harness drawing for a	er is trapped inside the connect ctor pins, resulting in malfunctio dditional design requirements fo	or when plugging the connector. W ning of the ECU. or consideration of application. A tro contacting Yanmar America's Servic	publeshooting guide is available
			inexpected damage during installati	
Diar	meter x Pitch M5x0.8	Kgf-m 0.4 ~ 0.7	Foot-lbf 3 ~ 5	N-m 4 ~ 6.7
	M6 x 1.0	1.0~1.2	7~9	9.8 ~ 11.8
	M8 x 1.25	1.5 ~ 2.9	10.6 ~ 20.9	14.4 ~ 28.3

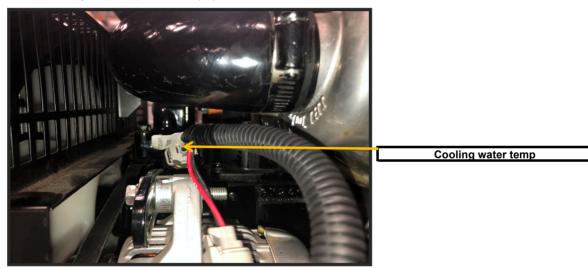


Harness Routing Instructions

- 1. Lay the loose harness on an engine to gauge fitment and placement of where the relays, ECU, and connectors should go based on the wiring diagrams provided. Please refer to TNV application manual for cautionary measures to be taken when mounting a harness to an engine.
- 2. Connect alternator plugs (67) & (52) and starter connectors (69) & (54). Cover terminals after connecting.



3. Connect cooling water temp connector (12) which is near to the thermostat.



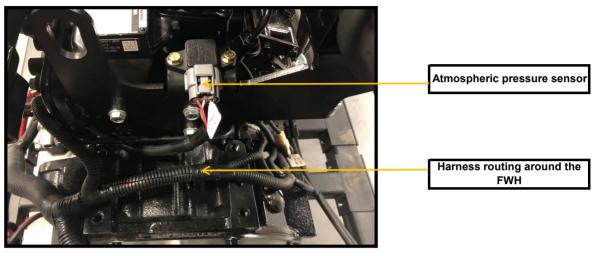
 Layout harness as shown. Connectors 8, 9, 10, 11, 20, 22, 25 and the battery leads (53 & 50)



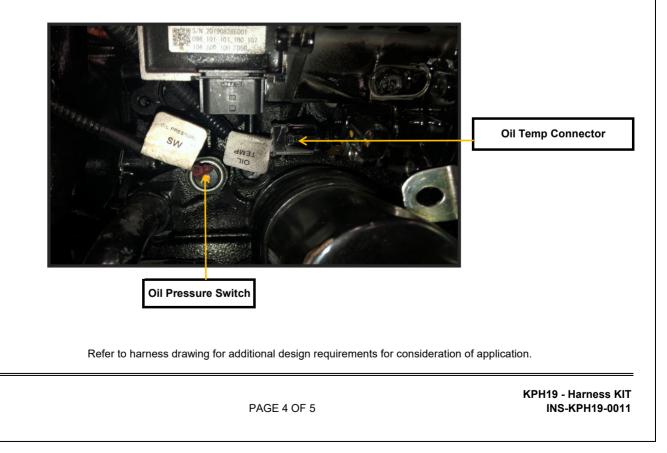
YANMAR

Harness Routing Instructions

5. Route section of the harness containing connectors 8, 9, 10, 11, 20, 25 around flywheel housing to connect on the intake side of an engine. Connect ATM pressure sensor (11) where the sensor will be supplied loose with an engine.



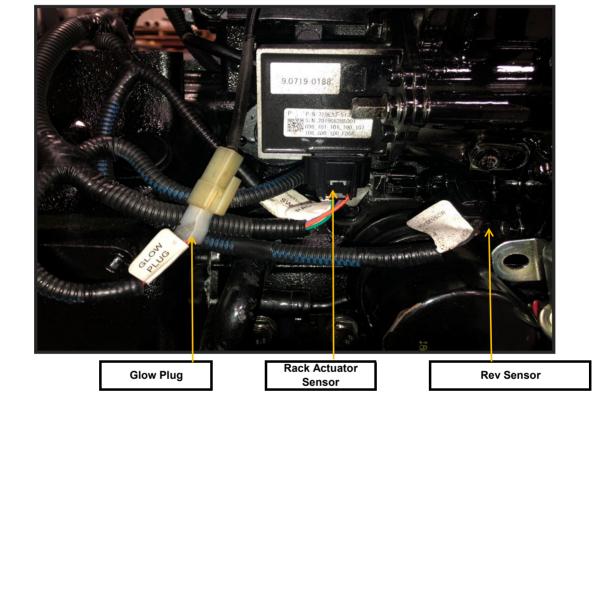
6. Connect Oil pressure switch and Oil temp connector which are around fuel injection pump and oil filter.





Harness Routing Instructions

7. Connect the Glow Plug (20), rack actuator sensor (8) and rev sensor (9) that are around the fuel injection pump.



Refer to harness drawing for additional design requirements for consideration of application.

KPH19 - Harness KIT INS-KPH19-0011

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