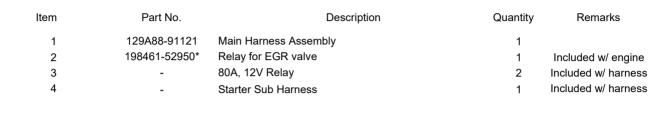


Supplement to Yanmar Kit Installation Instructions

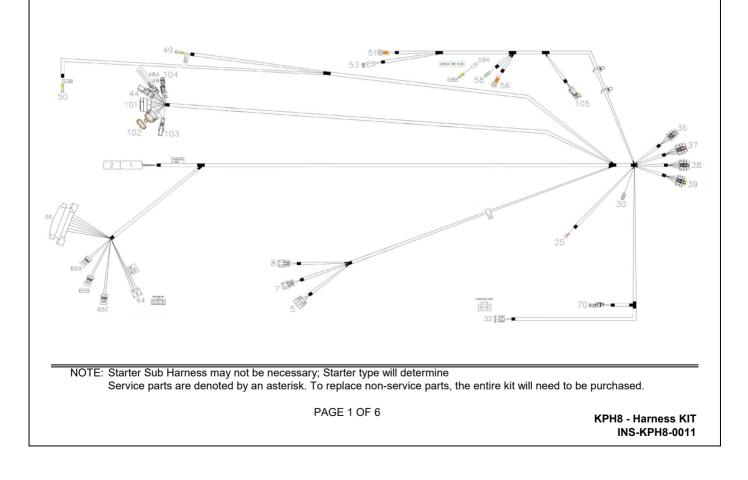
SAFETY

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.







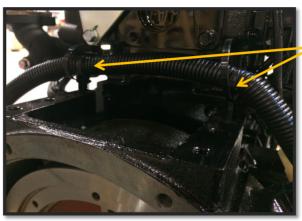


etallatio	n Instructions			
	Only the Starter and distributor standard	specification engine in the loose	with the harness kit. The EGR valve parts box. The optional connectior Ide Pre-Heat Lamp, Engine Stop 1	s for distributer use are located
			ine fre freu Lump, Lingine Otop f	a 2, ondigo Lamp, olo.
		Please see the next pay	ge for detailed installation instructio	ons.
ARNING:		ing will cause premature failure o	connecting either the positive or neg of electronic components. Also, new	
NOTE:	In the event that th		nded, never use scotch locks or bu d wires must be soldered and seale	
	••		<u>d ECU Applications:</u> the wire harnesses reach please us	se the following ECU mounting
	 Install the ECU Install the ECU 	J in a location that is well ventilate J so that the connector faces dow	to steam or high-pressure water for ed and not subject to direct sunlight wnward. Failure to do so may trap v	t.
Refer to I	4- Ensure no wat corrode conne harness drawing for a	ector pins, resulting in malfunction additional design requirements for	r when plugging the connector. Wa ning of the ECU. r consideration of application. A tro ontacting Yanmar America's Service	ubleshooting guide is available
			nexpected damage during installation	
Diameter 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
		8.0 ~ 10.0		



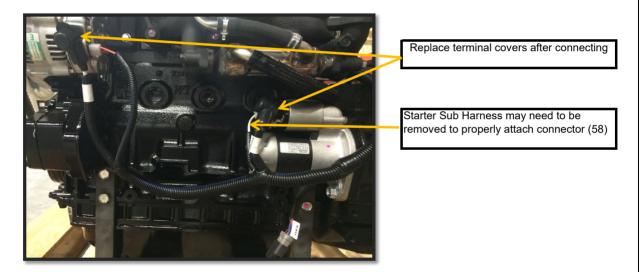
Harness Routing Instructions

- 1. Lay the loose harness on 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. Secure section of loom containing (2) P-clips to the flywheel housing with loosely attached P-clips. There will be a series of M10 bolt holes on the top of the flywheel housing.



P-clips hold down the alternator and starter section of loom to the flywheel housing. Make sure P-clips and loom have the proper orientation to allow the loom to rest close to the flywheel barrel.

3. Connect alternator plugs (51) & (53) and starter connectors (56) & (58). Cover terminals after connecting.



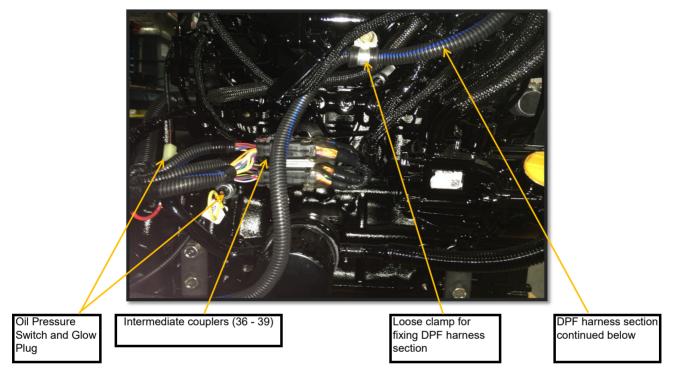
 Layout harness as shown. Connectors 1, 2, 64, 65 - 66, 44, 48, 101 - 104, and the battery leads (49 & 50)



YANMAR

Harness Routing Instructions

5. The intermediate couplers (36-39) should be connected next. The mounting points for the turbo engines may differ from the naturally aspirated engines. Please see the pictures below for reference on positioning. Connect glow plug (30) and oil pressure switch (25). Route the DPF loom section similar to placement shown. Use loose clamp noted to attach harness. Always avoid harness contact with high temp surfaces such as the DPF, EGR, etc.



6. Route the DPF branch between the EGR valve and the fuel filter up to the DPF connections. Check and adjust if necessary to ensure that no contact will be made in operation between harness and high temp surfaces (DPF, etc)



The routing shown if for exhaust manifold mounted DPF's. Flywheel mounted DPF's will need harness section routed similarly. This section is secured by clamp shown above.

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

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KPH8 - Harness KIT INS-KPH8-0011

