

Supplement to Yanmar Kit Installation Instructions

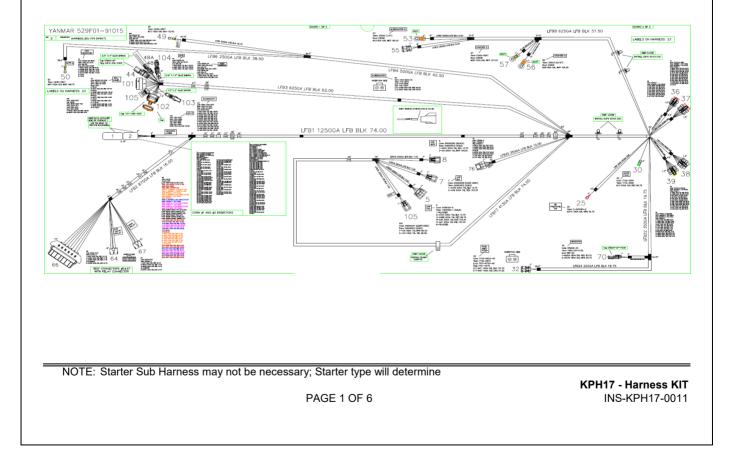
## SAFETY

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	129F88-91400	Main Harness Assembly	1	
2	129F88-91010	Harness, ECU	1	
3	172B02-17150*	80A, 12V Relay	2	Included w/ harness
4	-	Starter Sub Harness	1	Included w/ harness

MODELS 4TNV94FHT

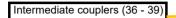


stallatio	n Instructions					
NOTE:	The optional connections for distributor use are located in the Accessory Coupler. The optional features include Pre- Heat Lamp, Engine Stop 1 & 2, Charge Lamp, etc.					
	Service parts are de	noted by an asterisk. To replace	non-service parts, the entire kit wi	ll need to be purchased.		
		Please see the next pa	ge for detailed installation instruction	ons.		
RNING:			connecting either the positive or ne			
	equipment is operat ECU connected to the	ng will cause premature failure c ne wire harness.	of electronic components. Also, ne	ver weld on equipment with the		
		harness. All extended	d wires must be soldered and seale	ed.		
	For applications that		<u>d ECU Applications:</u> the wire harnesses reach please u	se the following ECLI mounting		
Refer to I	guidelines: 1- Install the ECL 2- Install the ECL 3- Install the ECL in corrosion of 4- Ensure no wat corrode conne harness drawing for a	I in a location that is not subject I in a location that is well ventilat I so that the connector faces dov connector pins. er is trapped inside the connector ctor pins, resulting in malfunctior dditional design requirements for	to steam or high-pressure water for ed and not subject to direct sunligh wnward. Failure to do so may trap or when plugging the connector. W	r cleaning it. water in the connector, resulting ater inside the connector may publeshooting guide is available		
			nexpected damage during installati			
الماني	meter x Pitch M5x0.8	<b>Kgf-m</b> 0.4 ~ 0.7	<b>Foot-lbf</b> 3 ~ 5	<b>N-m</b> 4 ~ 6.7		
		··· ···				
	M6 x 1.0	1.0~1.2	7 ~ 9 10.6 ~ 20.9	9.8 ~ 11.8		



## 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. The intermediate couplers (36-39) should be connected at first. 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 and intermediate couplers holding brackets.

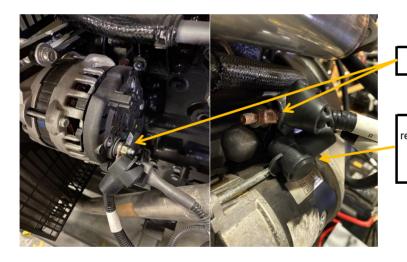




P-clips hold down the alternator and starter section of loom to the flywheel housing. Make sure P-clips and loom have the proper orientation to allow the loom to rest close to the flywheel barrel.

Intermediate couplers (36 - 39)

3. Connect alternator plugs (53) & (55) and starter connectors (56) & (57). Put back ring terminal cover after connecting.



Replace ring terminal covers after connecting

Starter Sub Harness may need to be removed to properly attach connector (57). Refer the torque chart above (pg. 2) to torque the ring terminals with Nuts or Screws.

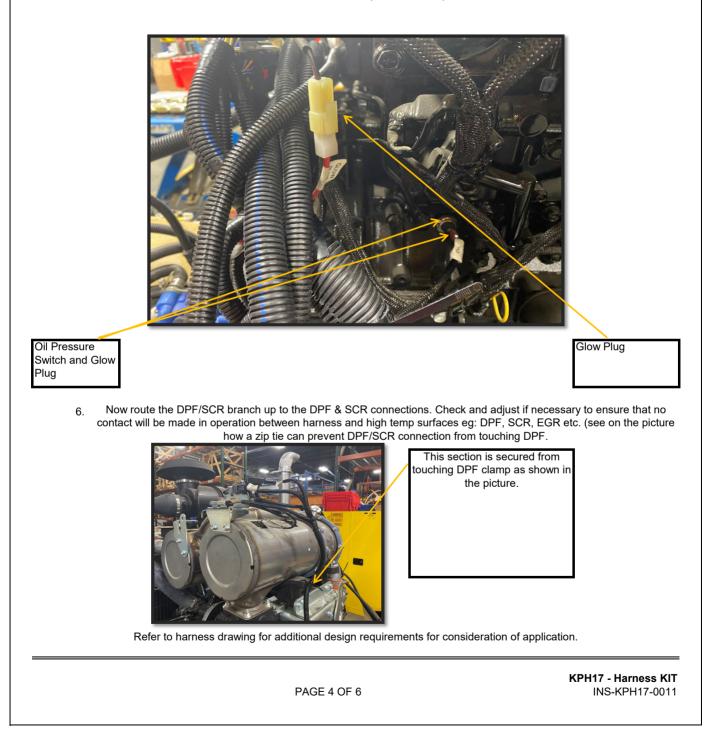
 Layout harness as shown. Connectors 1, 2, 64, 66, 67, 44, 48, 101 - 105, and the battery leads (49 & 50)



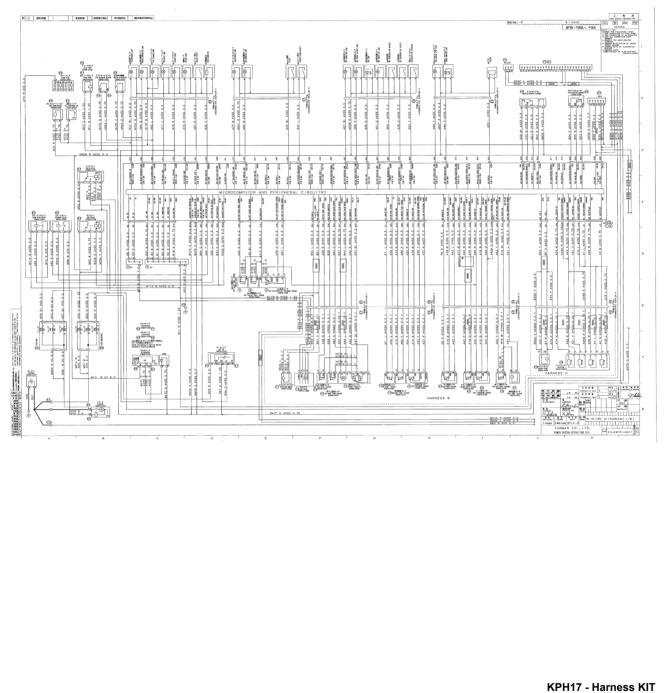


## Harness Routing Instructions

 Connect glow plug (30) and oil pressure switch (25). Always avoid harness contact with high temp surfaces such as the DPF, EGR, etc. To avoid harness from touching high temp surfaces, and touching the ground, always tie excess looms of harness with zip tie wherever possible.







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