



Supplement to Yanmar Kit Installation Instructions

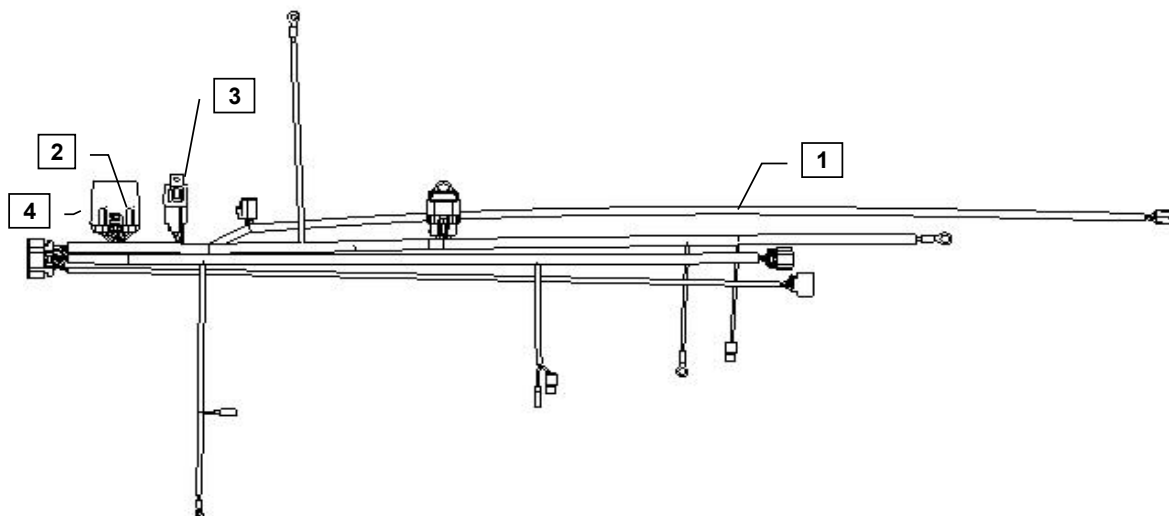
SAFETY

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	129689-91090*	Wiring Harness (DI)	1	(A)
2	119749-91420*	Control Module Timer	1	
3	119749-91460*	Relay 70A 12V Sealed	1	
4	119749-91440*	Control Module Housing	1	
5	1908-00*	Switch Retainer	2	
6	119749-91500*	60" Harness Extension	1	(A)

Note: Service parts are denoted by an asterisk. To replace non-service parts, the entire kit will need to be purchased.



ENGINE MODELS
3TNV82A-BDSAX
3TNV88-B
4TNV88-B

Remarks: (A) When utilizing Yanmar harness PN: 129689-91090 (included) to a control panel that requires 10 feet or more of wiring from the power source you must modify the 60" Yanmar harness extension PN: 119749-91500 to desired length and install LOFA starter relay kit PN: LPN010-0002-06 (sold separately*). When using an unmodified 60" harness extension, the starter relay kit is not required.



Installation Instructions

Hand tighten all bolts and nuts until assembly is completed, then torque according to specifications in Table 1. The numbers in () represent the item numbers.

1. Connect harness terminals to appropriate locations. See engine wiring harness diagram and schematics provided with panel kit.

NOTE: If Denso starter is being used you must replace the starter solenoid spade connector with the Denso ring terminal included in the loose parts bag.

2. Use the Retainer Clips (5) to attach the Wire Harness (3) to two 8 mm open thread bores on the rear fuel injection side of the cylinder head.
3. After connecting all terminals to appropriate locations, check the following:
 - a) Make sure the wires do not contact the exhaust manifold or muffler and are away from all heat sources.
 - b) Make sure the wires do not contact any sharp or abrasive surfaces.
 - c) Use wire ties to secure the wire harness to the engine.
 - d) Cover all harness terminals not used after assembly is completed

WARNING: Be sure battery cables are connected correctly. Disconnecting either the positive or negative battery cable while the equipment is operating will cause premature failure of electronic components.

NOTE: When utilizing Yanmar harness PN: 129689-91090 (included) to a control panel that requires 10 feet or more of wiring from the power source you must modify Yanmar harness extension PN: 119749-91500 to desired length and install LOFA starter relay kit PN: LPN010-0002-06 (sold separately). When using an unmodified 60" harness extension, the starter relay kit is not required. LOFA contact number 1-770-569-9828.

NOTE: In the event that the 60" wire harness extension need to be extended please follow the manufacturer's assembly and wiring procedures. Please visit www.deutschip.com and click on the Connector Repair or Helpful Hints link to download a more detailed procedure on how to properly assemble a connector. As always never use scotch locks or butt connectors to extend the wire harness. All extended wires must be soldered and sealed.

Refer to harness drawing for additional design requirements for consideration of application. A troubleshooting guide is available through Yanmar's Distributor Website or by contacting Yanmar America's Service Department.

Table 1: Proper torque specifications for bolts and nuts.

Diameter x Pitch	Kgf-m	Foot-lbf	N-m
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
M12 x 1.75	8.0 ~ 10.0	57.8 ~ 72.3	78.4 ~ 98.0

