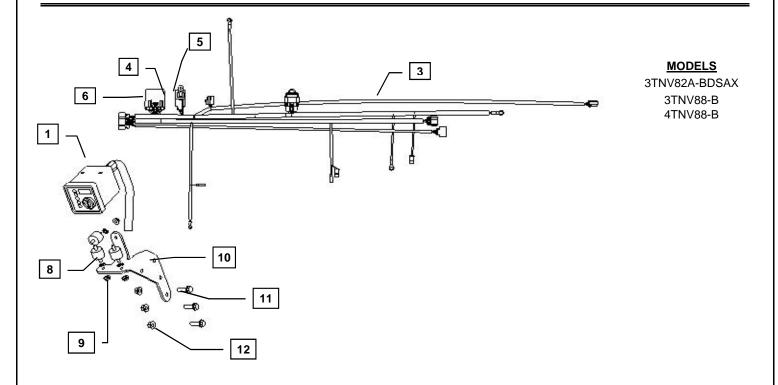




Item	Part No.	Description	Quantity	Remarks
1	119749-91110	Control Panel (IDI)	1	
2	129689-91190	Ignition Key, Engine Control Panel	2	
3	129689-91090	Wiring Harness (DI)	1	(A)
4	119749-91420	Control Module Timer	1	
5	119749-91460	Relay 70A 12V Sealed	1	
6	119749-91440	Control Module Housing	1	
7	1908-00	Switch Retainer	2	
8	129689-92100	Isolator Mount M6 x 1.0	3	
9	26366-060002	Nut, M6 x 1.0 (Flanged hex head)	3	
10	119749-91130	Panel Mounting Bracket	1	
11	26106-080252	Bolt, M8 x 1.25 - 25 (Flanged hex head)	3	
12	26366-080002	Nut, M8 x 1.25 (Flanged hex head)	4	
13	INS-KP5-0011	Installation Document	1	



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 Yanmar 60" 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. Fasten Control Panel (1) to the Mounting Bracket (11) using Isolators (8), and Lock Nuts (10).

NOTE: Make sure isolators are not twisted during installation to avoid premature failure of components.

- 2. Assemble Control Panel (1) and Mounting Bracket (10) assembly to injection pump side rear engine leg using MX1.25 25 Bolts (11) and M8X1.25 Flange Nuts (12).
- 3. 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.

- 4. Use the Retainer Clips (7) to attach the Wire Harness (3) to two 8 mm open thread bores on the rear fuel injection side of the cylinder head.
- 5. 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
 - e) Make sure that the Ves-pak and relays are mounted vertically so that water will not be trapped inside of the housing.

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



