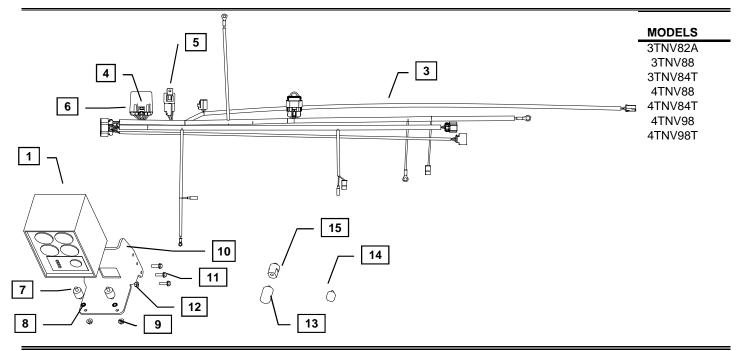




Item	Part No.	Description	Quantity	Remarks
1	129689-91210	Gauge Panel (DI)	1	
3	129687-91100	Wiring Harness (DI)3	1	(B)
4	119749-91420	Control Module Timer	1	
5	119749-91460	Relay 70A 12V Sealed	1	
6	119749-91440	Control Module Housing	1	
7	129689-92100	Isolator Mount M6 x 1.0	3	
8	129689-91180	Washer, M6 (star)	3	(A)
9	26366-060002	Nut, M6 x 1.0 (Flange hex head)	3	
10	129689-91230	Panel Mounting Bracket	1	
11	26106-080252	Bolt, M8 X 1.25 - 25 (Flanged hex head bolt)	3	
12	26366-080002	Nut, M8 X 1.25 (Flanged hex head)	3	
13	129689-91260	Oil Pressure Sender/Switch (bspt) 1		
14	129689-91250	Water Temperature Sender/Switch (M16)	1	
15	171375-39601	Damper 1/8 BSPT - 1/8 BSPT	1	



Remarks: (A) 129689-91180 is not a service part and does not need to be replaced.

(B) When utilizing the Yanmar harness to a control panel that has 10 ft. or more of wiring between them, you must install a relay, 119749-91400.

KP2 - PANEL KIT INS-KP2-0011



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 (10) using Isolators (7), Star Washers (8) and Lock Nuts (9). Star washers should be installed between isolators and bracket.

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 M8 x 25 bolts (11) and M8 Flange Nuts (12).
- 3. Replace the standard oil pressure switch on the engine with the provided Oil Pressure Sender (13), Damper (15) and Plug. Use thread tape on installation of components.
- 4. Replace the standard coolant temperature switch on the engine with the provided Water Temperature Sender (14). Use thread tape on installation of components.
- 3. Connect harness terminals to appropriate locations. See engine wiring harness diagram and schematics provided with panel kit.

NOTE: The spare ring terminal in the kit is for the S-Terminal on the Denso starter. The spade connector, for the Hitachi starter, will have to be replaced with the ring terminal if Denso Starter is equipped.

- 4. Use the Retainer Clip to mount the Relay (5) to an open thread bore on 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.
 - 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 before operation. If at any time during operation, the battery cables are removed, the harness could fail prematurely.

NOTE: Application requiring a harness extension to a control panel over 10Ft in length must use the starter relay at the connector labeled Starter Jumper, 119749-91400.

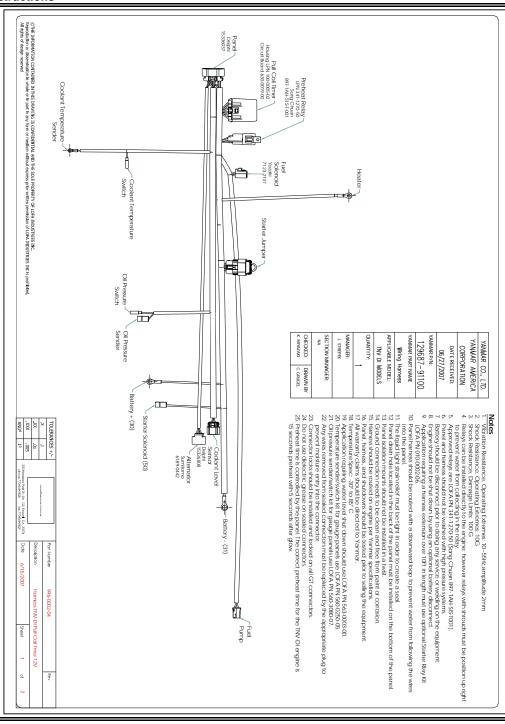
Refer to harness drawing for additional design requirements for consideration of application. A troubleshooting guide is available through Yanmar's Distributor Website or by contacting Yanmar America's Service Department.

Table 1: Comply with torque standards in the table to avoid unexpected damage during installation or in the future.

Diameter x Pitch	Kgf-m	Foot-lbf	N-m
M8 x 1.25	1.5 ~ 2.9	10.6 ~ 20.9	14.4 ~ 28.3
M10 x 1.50	4.5 ~ 5.5	32.5 ~ 39.8	44.0 ~ 54.0
M12 x 1.75	8.0 ~ 10.0	57.8 ~ 72.3	78.4 ~ 98.0



Installation Instructions





Installation Instructions

