



Remote Start and Four-Meter Panel Kit PA-249886 4-20CCO and 4-16.5CCFO Marine Generator Sets

Allows starting-stopping from a location remote of the generator set. Meters/gauges include DC voltmeter, engine oil pressure gauge, water temperature gauge, and generator running time hourmeter. Gauges are illuminated and the generator set comes equipped with a 6-pin connector on controller back panel for connection of the kit. Gauge senders are standard on most generator sets. See Figure 1 for panel features.

NOTE

If generator set is an earlier model (without senders), order Gauge Sender Kit PA-249894.

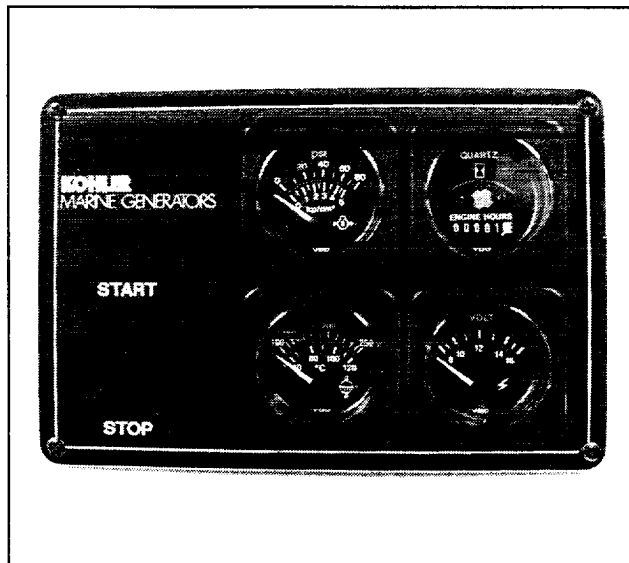


Figure 1. Panel Features

NOTE

This kit requires Remote Extension Harness PA-249334. This fifteen foot (4.6 m) harness

allows connection of Remote Start and VDO Meter Panel Kit to generator set controller. See Figure 2.

NOTE

If the installation requires a wiring harness that exceeds 15 ft. (4.6 m) order an additional Remote Extension Harness Kit PA-249334. This kit will allow extension in 15 ft. (4.6 m) increments. Use no more than a total of four remote harness kits.

Start/Stop Switch: Rocker-type switch with "ON" light used to start and stop generator set.

DC Voltmeter: Measures voltage of starting battery(ies). Normal battery operating range is 12-14 Volts.

Engine Oil Pressure Gauge: Measures engine oil pressure.

NOTE

During the engine break-in period, it is normal for the engine to produce higher oil pressure readings.

Water Temperature Gauge: Measures engine coolant temperature.

Hourmeter: Records total generator set operating hours for reference in maintenance scheduling.

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NOTE

If this kit is installed on a generator set already in service, the hourmeter on the controller will have accumulated hours and therefore, be different than the panel hourmeter. Be sure to use the same hourmeter each time when scheduling maintenance.

⚠ WARNING

EXPLOSION! USCG Regulation 33CFR183 requires all electrical devices (ship-to-shore transfer switch, remote start panel, etc.) to be "ignition protected" when used in a gasoline-fueled environment. These electrical devices do not meet Regulation 33CFR183 and are not certified to operate in a gasoline-fueled environment such as engine room or near fuel tanks. Acceptable locations would be wheelhouse or other living areas sheltered from rain and water splash. When operated in a diesel-fueled environment, it is not necessary to meet Regulation 33CFR183.

INSTALLATION

1 Determine where in wheelhouse or bridge remote panel is to be mounted. This decision will be limited by the length of the

wiring harness and the size (including mounting depth) of the panel.

NOTE

If additional wiring is needed, order an additional Remote Extension Harness Kit PA-249334. This kit will allow extension in 15 foot (4.6 m) increments. Use no more than a total of four remote harness kits.

See Figure 3 for mounting dimensions. The minimum mounting clearance beyond the panel is 4 in. (102 mm). See Figure 4 for the panel assembly wiring.

2. Connect Remote Extension Harness PA-249334 to remote panel and mount panel using four screws.
3. Connect the other end of Remote Extension Harness PA-249334 or the additional harness PA-249334 (if used) to back of generator set controller.

Use rubber grommets and cable ties as necessary to protect and secure wiring harness. Installation must conform to U.S.C.G. Regulations 183.425 through 183.460.

4. Start/stop generator set using controller switch and remote switch. Monitor gauges for proper function. STOP generator set.

Parts Listing

Description	Qty.	Part Number
Panel, Remote Start and Meter Panel	1	A-267460
Gauge, Water Temperature	1	249440
Gauge, Oil Pressure (150 psi)	1	249463
Voltmeter	1	249462
Hourmeter	1	249461
Harness, Panel Wiring (w/male connector)	1	249467
Lamp, (VDO Part No.)	4	600 802
Panel, Cutout	1	249419
Switch, Rocker	1	249330

Required Remote Extension Harness PA-249334

Lead No.	Color	Ga.
1	Black	16
2	Tan	16
3	Lt. Blue	16
4	Violet	16
5	Yel/Red	16
6	Grey/Blk	16

NOTE: Connectors are shown as viewed from terminal insertion end.

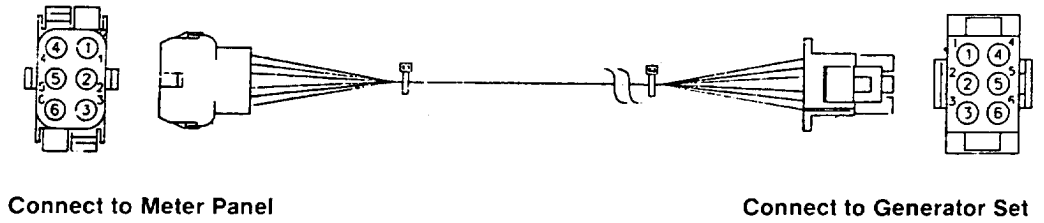


Figure 2. Remote Extension Harness PA-249334

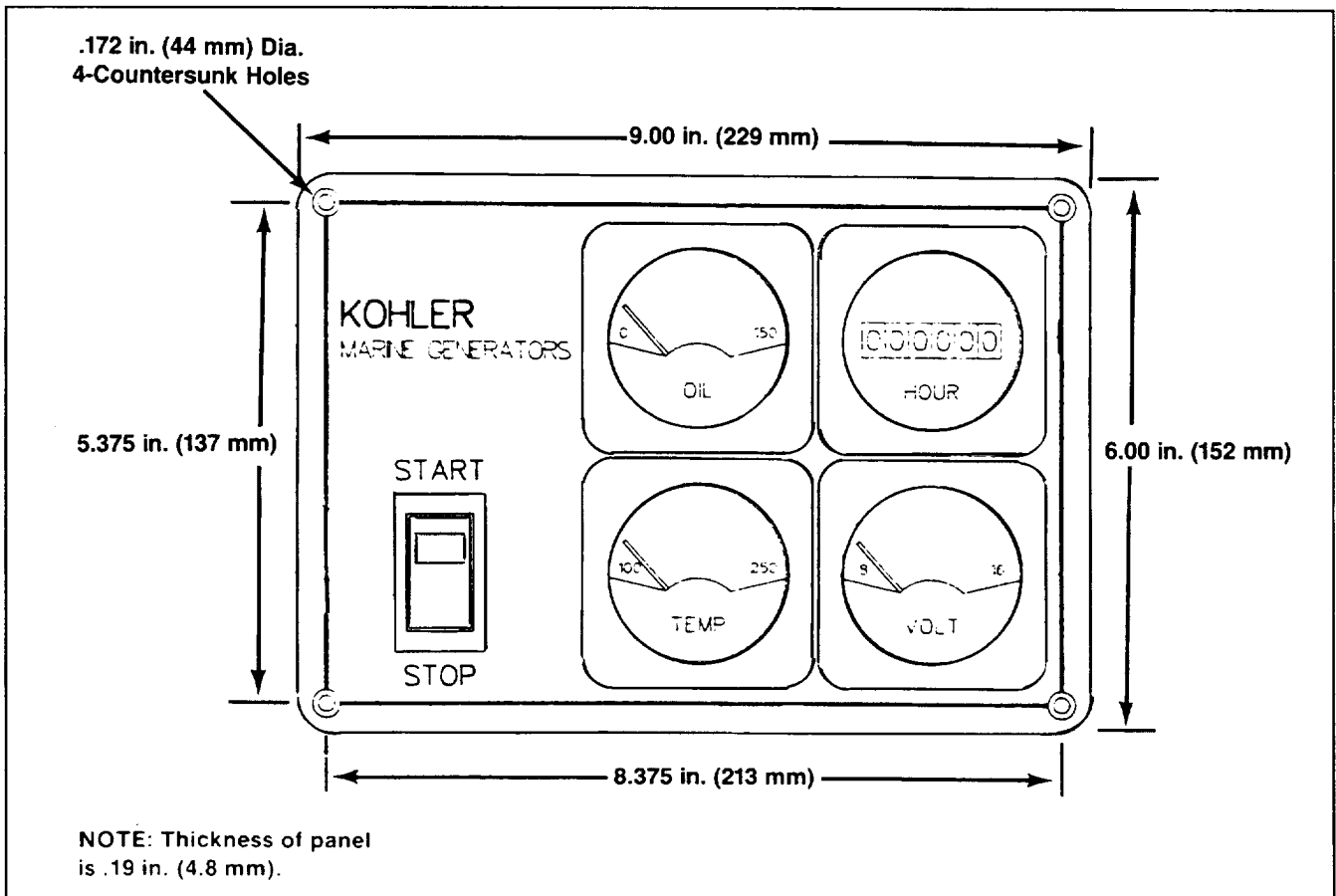
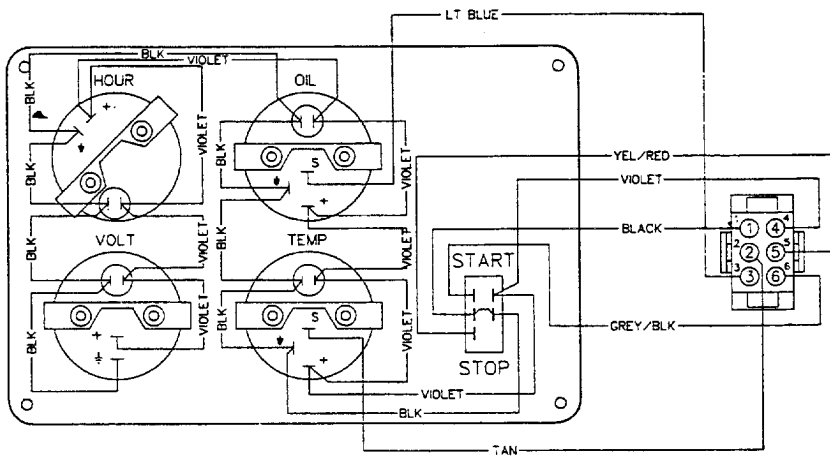


Figure 3. Meter Panel Mounting Dimensions



NOTE: Connector shown from pin insertion end.

Back View of Remote Start and Meter Panel

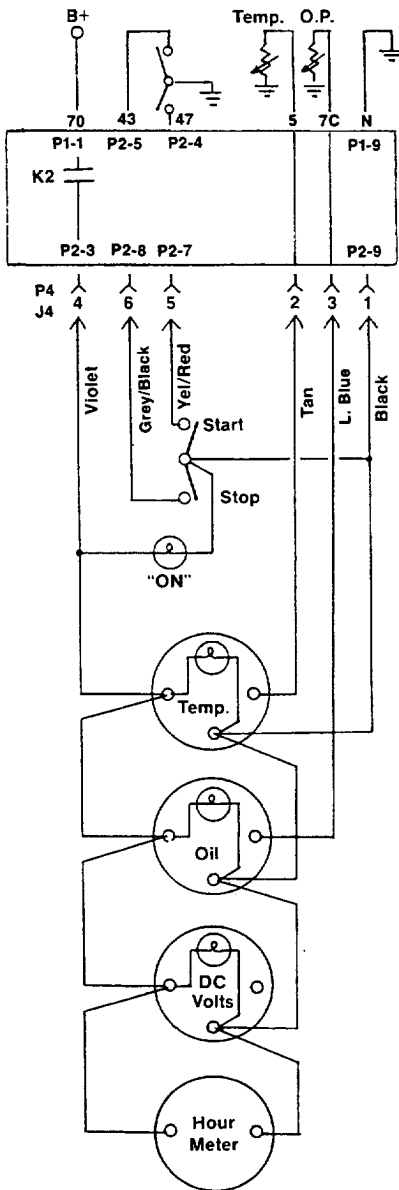


Figure 4. Electrical Connections