

R-Series Meter Box Kit 10RMOY 15RMOY

The following instructions include a set of general installation instructions, part listing with mounting locations and wiring diagrams.

Warning

UNIT STARTS WITHOUT NOTICE! Units with Automatic Transfer Switches start automatically. Turn Generator Main Switch on controller to OFF position, and remove battery cables (remove ground lead first and reconnect it last) to disable generator set before working on any equipment connected to generator. See Warning — EXPLOSIVE GASES following.

Warning

EXPLOSIVE GASES! The gases generated by a battery being charged are highly explosive. Do not smoke or permit flame or spark to occur near a battery at any time, particularly when it is charging. Any room containing charging batteries should be well-ventilated to prevent accumulation of explosive gases. To avoid sparks do not disturb battery charger connections while battery is charging, and always turn charger off before connecting or disconnecting. Turn automotive test equipment off when connecting or removing battery clips. When removing and reconnecting battery cables disconnect ground lead first, and reconnect ground lead last to avoid electrical shock or sparks igniting explosive gases.

Warning

DANGEROUS ACID! Avoid contact with battery electrolyte. It contains acid which can eat holes in clothing, burn skin, and cause permanent damage to eyes. Always wear splashproof safety goggles when working around the battery. If battery electrolyte is splashed in the eyes or on skin, immediately flush the affected area for 15 minutes with large quantities of clean water. In case of eye contact, seek immediate medical aid. Never add acid to a battery once the battery has been placed in service. Doing so may result in dangerous splattering of electrolyte.

Warning

ELECTRICAL SHOCK! Battery can cause electrical burns and shocks. Remove rings, watches and jewelry that can cause short circuits. When disconnecting battery, disconnect ground lead first and reconnect it last to minimize the probability that tools will cause short circuits.

Installation Instructions

1. Disconnect battery, negative lead first.
2. Remove capscrews and detach generator enclosure access cover.
3. Disconnect switch panel wiring harness from control board.
4. Unscrew and remove switch panel from controller/regulator tray (Figure 1). Remove front black panel from Meter Box assembly. Mount black panel to controller/regulator tray where switch panel was removed. Insert switch panel into Meter Box assembly where black panel was removed and mount.

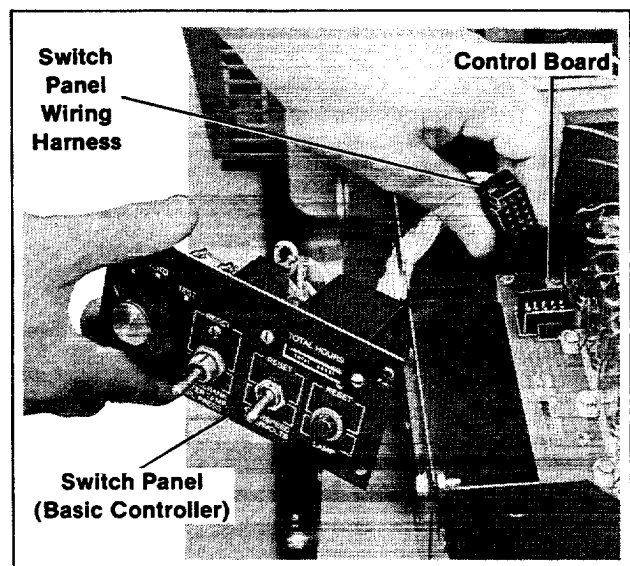


Figure 1. Removing Switch Panel (Basic Controller)

5. When mounting the current transformers, the ground stud may have to be loosened and the leads repositioned to allow mounting space for current transformers. Place current transformers with white dot of the middle transformer opposite end transformers. Mount to generator adapter as shown in Figure 2.

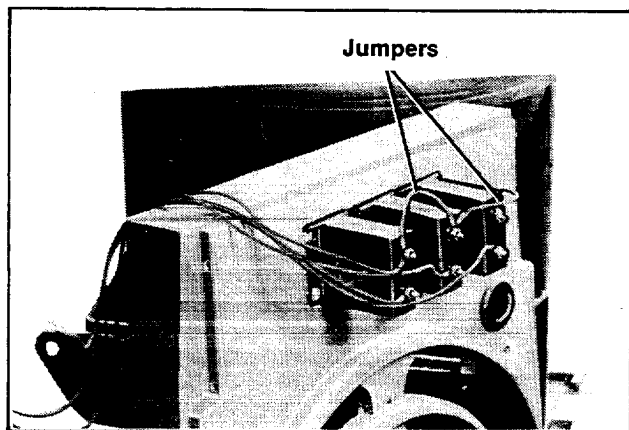


Figure 2. Mounting Current Transformers

6. Insert stator leads thru current transformers according to proper wiring diagram. Mount the two jumper leads to current transformers.
7. To new generator enclosure access cover, add Warning and Voltage decals to underside of cover.
8. Attach vibration dampeners to generator enclosure access cover (Figure 3). Place generator enclosure access cover on generator enclosure.

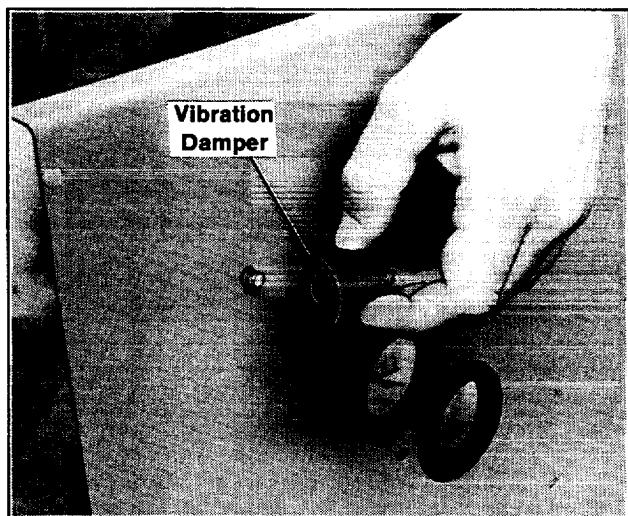


Figure 3. Mounting Vibration Dampeners

9. Mount canvas support strap to controller/regulator tray. Run canvas strap to upper left corner of generator enclosure access cover and attach with mounting bolt of vibration dampener. Refer to Figure 4.
10. Remove cover on Meter Box assembly. Pull meter box wiring harness thru bottom of the Meter Box and top of generator enclosure access cover, refer to Figure 5 for positioning.

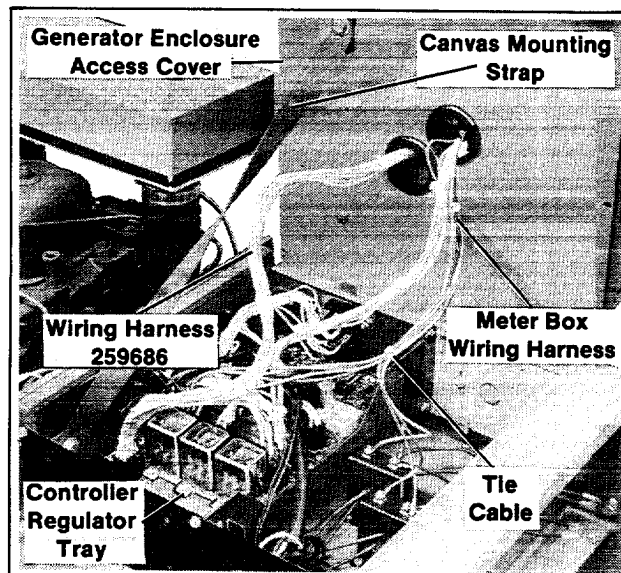


Figure 4. Meter Box Assembly

11. Mount Meter Box to vibration dampeners.
12. Attach wiring harness (part No. 259686) to 15 pin connector on control board. Run harness from controller/regulator tray up thru generator enclosure access cover and bottom of meter box. Connect to switch panel wiring harness.
13. Attach oil pressure sender. Refer to Figures 6 and 7 for the mounting of the low oil pressure senders. Use a high temperature thread sealant at all pipe thread connection points.
14. Wire meter box according to your model's specific wiring diagram. Attach tie cables after wiring has been completed as shown in Figure 4. Attach meter box cover.
15. Attach generator enclosure access cover to generator enclosure with capscrews.
16. Reconnect battery, negative lead last.

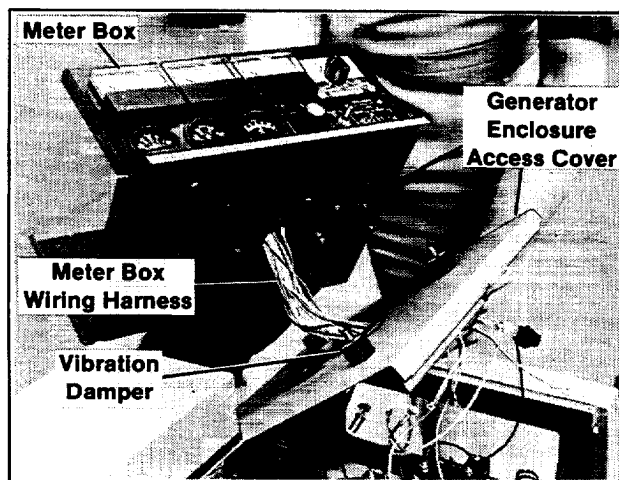


Figure 5. Routing Meter Box Wiring Harness

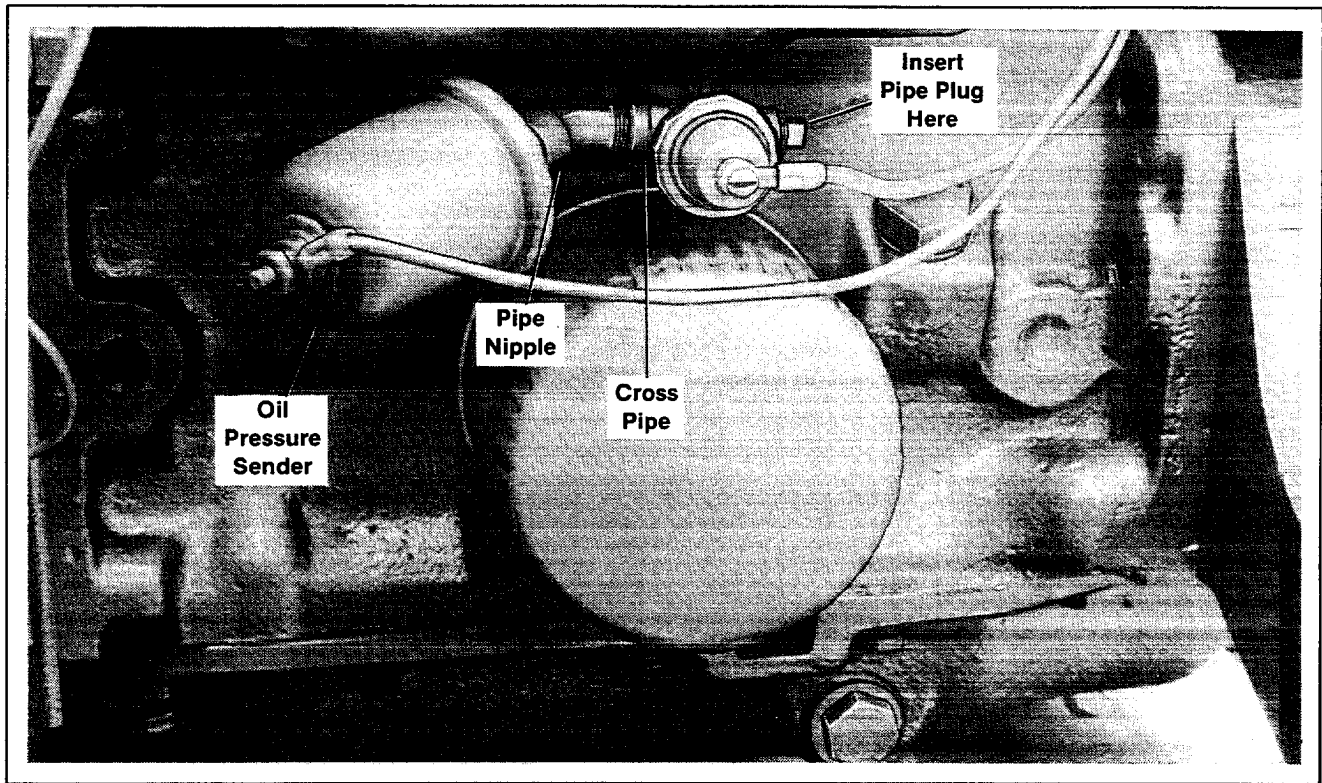


Figure 6. 10RMOY, Mounting of Oil Pressure Sender

		Model	Kit
		10RMOY	PA-250591 PA-250593 (600 volt)
Part No.	Description	Qty.	Mounting Location
X-5-1	Screw, H.C.	1	Meter Box Mounting
X-5-7	Screw, H.C.	1	Canvas Mounting Strap
X-5-17	Screw, H.C.	3	Meter Box Mounting
X-20-1	Washer, Lock	8	Meter Box Mounting
X-25-49	Washer, Plain	8	Current Transformers
X-25-52	Washer, Plain	2	Canvas Mounting Strap
X-50-3	Screw, R.H.M.	8	Current Transformers
X-70-2	Nut, Hex	8	Current Transformers
X-75-1	Plug, Pipe	1	Oil Pressure Sender
X-81-1	Nut, Hex	5	Meter Box Mounting
X-101-8	Nut, Elastic	1	Canvas Mounting Strap
X-468-1	Cable, Tie	2	Meter Box Mounting
164037	Pipe, Cross	1	Oil Pressure Sender
A-250523	Box Assembly, Meter	1	Meter Box Mounting
A-250524	Box Assembly, Meter (600 volt)	1	Meter Box Mounting
250553	Cover, Controller	1	Meter Box Mounting
259361	Strap, Controller Box	1	Canvas Mounting Strap
259365	Decal	1	Meter Box Mounting
259632	Bumper	4	Meter Box Mounting
259682	Tag, Instruction	1	Meter Box Mounting
259686	Harness, Wiring	1	Meter Box Mounting
259793	Transformer	3	Current Transformers
259931	Decal	1	Meter Box Mounting
264390	Sender, Oil Pressure	1	Oil Pressure Sender
289055	Nipple, Pipe	1	Oil Pressure Sender
LN-1804-1414	Lead	2	Current Transformers

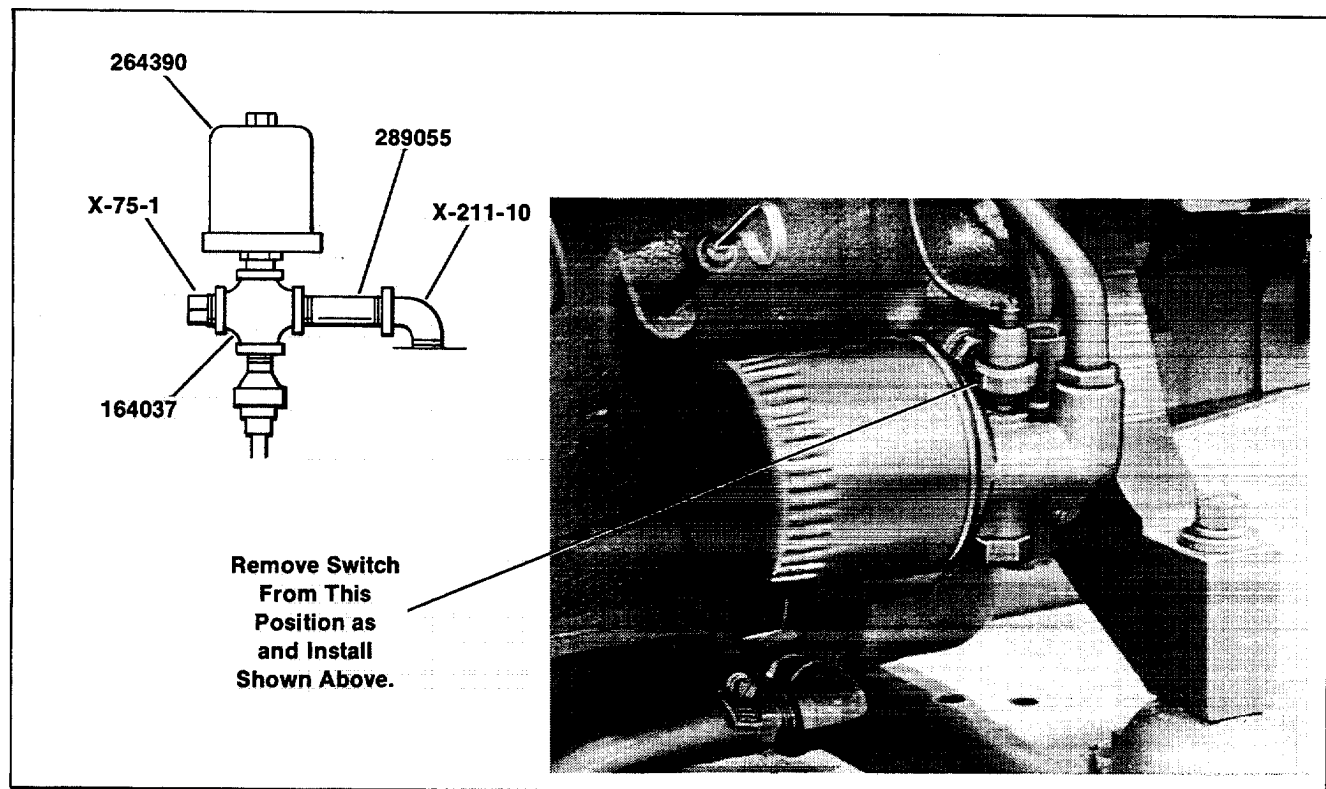


Figure 7. 15RMOY, Mounting of Oil Pressure Sender

Model	Kit
15RMOY	PA-250592
	PA-250594 (600 volt)

Part No.	Description	Qty.	Mounting Location
X-5-1	Screw, H.C.	1	Meter Box Mounting
X-5-7	Screw, H.C.	1	Canvas Mounting Strap
X-5-17	Screw, H.C.	3	Meter Box Mounting
X-20-1	Washer, Lock	8	Meter Box Mounting
X-25-49	Washer, Plain	8	Current Transformers
X-25-52	Washer, Plain	2	Canvas Mounting Strap
X-50-3	Screw, R.H.M.	8	Current Transformers
X-70-2	Nut, Hex	8	Current Transformers
X-75-1	Plug, Pipe	1	Oil Pressure Sender
X-81-1	Nut, Hex	5	Meter Box Mounting
X-101-8	Nut, Elastic Stop	1	Canvas Mounting Strap
X-211-10	Elbow	1	Oil Pressure Sender
X-468-1	Cable, Tie	2	Meter Box Mounting
164037	Pipe, Cross	1	Oil Pressure Sender
A-250522	Box Assembly, Meter	1	Meter Box Mounting
A-250524	Box Assembly, Meter (600 volt)	1	Meter Box Mounting
250553	Cover, Controller	1	Meter Box Mounting
259359	Transformer	3	Current Transformers
259361	Strap, Controller Box	1	Canvas Mounting Strap
259365	Decal	1	Meter Box Mounting
259632	Bumper	4	Meter Box Mounting
259682	Tag, Instruction	1	Meter Box Mounting
259686	Harness, Wiring	1	Meter Box Mounting
259931	Decal	1	Meter Box Mounting
264390	Sender, Oil Pressure	1	Oil Pressure Sender
289055	Nipple, Pipe	1	Oil Pressure Sender
LN-1804-1414	Lead	2	Current Transformers

