

EMCP 4.2b Retrofit for Olympian 4001/4001E

1. Record the engine hours, number of flywheel teeth, and CT ratio. Take detailed pictures of existing wiring for reference. If possible verify the engine and generator are working properly.
2. Remove existing door and associated wiring from existing control panel.
3. Install new door with new control panel.
4. Connect generic Olympian wires as follows.

Engine Wire No.	Control Panel Wire No.	Description	Action	Notes
	18DC+	Battery Positive	Connect to wire 7	
	52DC+	Battery Positive	Connect to wire 7	
	60DC-	Battery Negative	Connect to wire 5	
	65DC-	Battery Negative	Connect to wire 5	
	ESTP B-	Battery Negative	Connect to wire 5	
	55STRT	ATS Start Signal	Connect to wire 24	Connect the other ATS start wire to wire 5 (B-)
	51BSMMS	Engine Start Signal	Connect to a A1 on the SMR	Connect A2 on the SMR to wire 5 (B-)
	Horn-	Horn	Connect to wire 5	
	13VA	A Phase Voltage Sensing	Connect to wire 108 thru 2A fuse	
	11VB	B Phase Voltage Sensing	Connect to wire 109 thru 2A fuse	
	09VC	C Phase Voltage Sensing	Connect to wire 110 thru 2A fuse	
	07N	Neutral Voltage Sensing	Connect to wire 101	
	31IA	A Phase Current Sensing	Connect to wire C10	
	47IB	B Phase Current Sensing	Connect to wire C30	
	57IC	B Phase Current Sensing	Connect to wire C50	
	39IN	Current Sensing Common	Connect to wire C90	
	66MPU+	Mag Pickup Supply	Connect to new MPU	
	67MPU-	Mag Pickup Return	Connect to new MPU	
	24V DC+	CAN Plug B+	Connect to wire 7	
	24V DC-	CAN Plug B-	Connect to wire 5	
	56 OP+	Oil Pressure Sensor B+	Connect to wire OP	
	46 OP-	Oil Pressure Sensor B-	Connect to wire 15, 16, & 5	
	38 ET+	Engine Temp Sensor B+	Connect to wire ET	
	37 ET-	Engine Temp Sensor B-	Connect to wire 15, 16, & 5	
	54DI1	Low Coolant Level	Run new wire to LCL sensor	Connect other lead of LCL sensor to wire 5 (B-)
4		Crank input to EIM	Run thru NO contact on SMR to B+	
3A		Fuel On to EIM	Run thru NO contact on FCR to B+	
17		Enclosure E-Stop	Parallel to door mounted E-stop if contact is NC	NO contact can be run to digital input
56		4001 Overspeed	Remove	
10		EIM preheat	Remove	
54		EIM run signal	Remove	
5B		EIM E-Stop	Connect to B-	

5. Connect unit specific wiring, such as fuel tank sensors and site specific communications.
6. It may be necessary to install a new MPU. EMPC 4 cannot share the MPU with other components.
7. Once installation is complete and the new panel is operating properly, download the Product Status Report and keep on record for warranty.

This is a compilation of technician notes we received over the years and this document is continuously evolving. If you have something to add, suggestions or comments, please send them to matt_nolan@cartermachinery.com.