



Carter Machinery EMCP Retrofit Program Custom Door-Box Kits Power Module Retrofits

APRIL 2020

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Site Survey

CAT Control Panel Retrofit Site Survey



Carter Machinery Co., Inc.

Location			
Customer Name:		Site Name:	
Address:		City:	
State:		Zip Code:	
Main Contact:		Telephone No.:	
Alt. Contact:		Telephone No.:	
Product Information			
Package Serial No:		Generator Model:	
Engine Serial No:		Kilowatts:	
Engine Model:		KVA:	
Open or Enclosed Genset:		Voltage:	
		Amps:	
Existing Gen Controls Info:			
Is Existing Control Panel present?		CIM Module Installed:	
Control Panel Model:		CCM Module Installed:	
CP Box Measurements W x H:		Local Ann. Installed:	
CP Door Measure W x H:		Rem. Ann. Installed:	
Customer Comms Requirements:		Remote Ann. Qty:	
Mag Pickup Installed (QTY):		Engine ECM Type:	
Fuel Level Sensor Type:		Rem. E-Stop Installed:	
Existing Voltage Regulator Info:		Recommended VR Upgrade Model:	
Existing VR Model:		New Upgrade VR Model:	
Existing VR Manufacturer:		New Upgrade VR Manufacturer:	
Switchgear or Gen Mounted:		Switchgear or Gen Mounted:	
Self Excited, PMG or AREP:			
SWGR/ATS Information (Only fill this section out if system parallels with utility or other gens)			
Switchgear Manufacturer:		ATS Manufacturer:	
SWGR Closed/Open Transition:		ATS Controller Type:	
Does CP Communicate w/SWGR:		ATS Qty:	
Please take pictures of the existing control panel inside/outside, wiring terminal strips, overall genset package, generator data tag and accessory modules as these retrofit kits are designed to integrate with the customers site specific equipment.			
Comments & Recommendations			
Technician:		Date:	

Technicians/PSSR's complete site survey to determine which kit and what accessories are needed to meet each customer's specific application.

Quotes and Budgets are produced based off of this information.

Click [here](#) to download the Retrofit Site Survey

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CARTER-EMCP4 CUSTOM KITS

- EMCP 4 Custom kits are meant to provide a retrofit that is custom designed for a specific application ranging from remote boxes to replacement door panels.
- All kits for specific applications are custom priced and must be quoted before an order can be started; Lead times vary accordingly.



Carter-EMCP 4.3/4.4 Conversion Kits

- EMCP 4.3/4.4 conversion kits are designed to minimize installation time by connecting the existing EMCP 3.2/3.3/4.2/4.2b panel plug to a custom break out harness.
- This custom kit is a parts kit and included all the components needed to complete the installation of the remaining wires on the 120 pin plug and 70 pin plug for EMCP 4.4 paralleling.
- All kits for specific applications are custom priced and must be quoted before an order can be started; Lead times vary accordingly.



CARTER-EMCP4 DOOR SKIN KITS

- EMCP 4 Series plate kits are made for existing doors and are essentially limitless in sizing and provide a custom solution to replacing existing generator controls. Stainless, Powder Coat and Aluminum are available.
- **Standard kit contents:**
 - EMCP 4.2b/EMCP 4.3, 4.4 local annunciator, emergency shutoff switch, lights, voltage and speed potentiometer, CDVR switch, CAN plugs, RJ45 Ethernet port (4.3/4.4), and all loose parts to complete installation



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CARTER-EMCP4.2/4.3 POWER MODULE DOOR KIT

- The Power Module Door Kit is designed to replace obsolete generator controls that were used in older CAT Power Modules. Doors can be customized to add analog meters, etc. per customers request.
- Standard kit contents:
 - EMCP 4.2bEMCP 4.3, local annunciator, emergency shutoff switch, lights, voltage potentiometer, speed potentiometer, CDVR switch, CAN plugs, RJ45 Ethernet port (4.3), and all loose parts to complete installation.



CARTER-EMCP 4.4 POWER MODULE RETROFIT

- EMCP 4.4 Power Module kits are designed to replace obsolete switchgear/control panel applications on older XQ series modules.
- Carter can perform retrofit at our facility or assist at a dealers.
- Retrofit kits are also available for the dealer to install themselves.
- Multi-Function Relays are available for paralleling with utility.
- Unlimited other options are available. Call for pricing and options.



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CARTER-EMCP 4.3/4.4 CUSTOM BOX KITS

- EMCP 4.3/4.4 Custom Box Kits are a segregated remote panel replacement for when more hardware storage is needed or controls are not located on the existing generator
- Standard kit contents:
 - EMCP 4.3, local annunciator, emergency shutoff switch, lights, voltage potentiometer, speed potentiometer, CDVR switch, RJ45 Ethernet port, CAN plugs fully wired to terminal blocks and fuse holders inside box, and loose parts to complete installation



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CARTER-EMCP 4.2B CUSTOM BOX KITS

- EMCP 4.2b Custom Box Kits are a segregated remote panel replacement for when more hardware storage is needed or controls are not located on the existing generator
- Standard kit contents:
 - EMCP 4.2b, local annunciator, emergency shutoff switch, lights, voltage potentiometer, speed potentiometer, CDVR switch, CAN plugs fully wired to terminal blocks and fuse holders inside box, and loose parts required to complete installation



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CARTER-EMCP 4 MEDIUM VOLTAGE APPLICATIONS

- EMCP 4 Series medium voltage box doors replace the existing 42” or 48” doors commonly found on CAT medium voltage generator applications with various hinge types.
- Standard kit contents:
 - EMCP 4.2b/EMCP 4.3, local annunciator, emergency shutoff switch, lights, voltage potentiometer, speed potentiometer, CDVR switch, CAN plugs, RJ45 Ethernet port (4.3), and all loose parts to complete installation
- **Due to variation of sizes and hinge types, pictures and a site survey are imperative to proper product selection.**



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CARTER-WOODWARD EASYGEN APPLICATIONS

- Woodward EasyGen Kits are available for switchgear or standalone applications where an EMCP 4.4 is not a suitable replacement for existing controls.
 - EasyGen platform is suitable for more customized installations and is less limited regarding constrictions on an EMCP 4.4.



Questions?

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