



Technical Information

Product Group: GENERATORS

Model: DCA-SERIES W/ DUAL SPEED CERTIFICATION

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CHANGING GENERATOR FREQUENCY FROM 60HZ TO 50HZ

The purpose of this technical document is to provide the needed information for the service technician to change the generator frequency output from 60HZ to 50HZ. Not all engines hold a dual speed EPA certification so it's important to identify the correct model which these instruction apply to.

The below models hold dual speed certifications:

Generator Model	Engine Model
DCA70SSJU4F	4045HFG04
DCA150SSJU4F2/3	6068HFG05
DCA180SSJU4F/3	6068HFG05
DCA220SSJU4F2/3	6068HFG06
DCA300SSJU4F2/3	6090HFG06

CAUTION: When running a unit in 50Hz there are NO voltage or Frequency safety shutdowns. Due to voltage and current variations from applications, it is not possible to include these functions in the standard ECU845 firmware. If the application current/voltage values are known, it would be possible to have a firmware made to those settings in order to include the safety shutdowns.

NOTE: Prior to beginning, contact [Multiquip Technical Support](#) to ensure this procedure applies to your model and to receive the password needed to make the ECU845 Controller changes

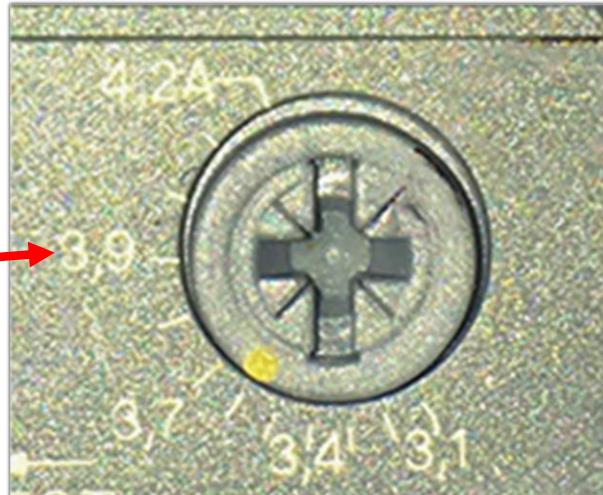
PROCEDURE:

1. The ECU 845 Controller is used to switch between 50Hz and 60Hz. The setting can be found here as you navigate the submenu from the main menu after the password is entered. Dealers should contact [Multiquip Technical Support](#) for the password.
ADVANCED OPTIONS>ENGINE SPEEDS> 50Hz = 0, 60Hz =1
2. The Over Current Relay (OCR) inside the control box also must be changed to the corresponding 50Hz set point in order for the generator to function as intended. To adjust the OCR there is a set screw adjustment on the top side of the OCR along with some numbers. The numbers may not be the exact number you need so adjust it to where it will be closest to the desired number. Use the chart below to find the correct OCR set point for your applicable model.

CAUTION: THE FAILURE TO PROPERLY SET THE OCR WILL RESULT IN LOSS OF OVERCURRENT PROTECTION RESULTING IN FAILURE/OVERLOADING THE GENERATOR ASSEMBLY ACCCOMPANIED BY POSSIBLY INJURY OR DEATH

See next page for OCR Set Point and Generator Derate Chart.....

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OCR Set Point and Generator Derate Chart

Model		DCA70SSJU4F	DCA150SSJU4F2/3	DCA180SSJU4F3	DCA220SSJU4F2/3	DCA300SSJU4F2/3
Frequency	Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Gen Rated Output	kVA	70	55	150	125	180
High Wye Rated Volts LL		480	400	480	400	480
High Wye Rated Volts LN		277	231	277	231	27
High Wye Rated Per-Phase Amps		84	79	180	180	217
OCR SETTING		2.8	2.6	3.0	3.0	3.6

*****"It's recommended to tag or label the unit at the operators panel to inform personnel that the unit has been modified from its original data plate info to a 50Hz configuration. Ensure the over current relay is correctly reset when returning the unit to 60hz configuration"*****