## CHONGQING ZONGSHEN GENERAL POWER MACHINE CO., LTD

EXECUTIVE ORDER U-U-082-0101 New Off-Road Small Spark-Ignition Engines at or Below 19 Kilowatts

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapters 1 and 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following engine and emission control systems produced by the manufacturer are certified for use in small off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY DISPLACEMENT (cc) ENG		ENGINE C	LASS	FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)			
2013	DCZH	S.2081H1	208, 179	4-stroke, >80 cd	- <225 cc	Gasoline		
DURABILITY HOURS		SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
125		EM			Compressor, Pump, Pressure Washer, Stump Beater, Generator Set, Non-Backpack Blower, Tiller, Edger, Brushcutter, Other Industrial Equipment			
ENGINE CODES/MODELS (rated power in kilowatt, kW)				S	See Attachm	ent		

The following are the hydrocarbon plus oxides of nitrogen (HC+NOx), carbon monoxide (CO), and particulate matter (PM) emission standards (Title 13, California Code of Regulations, (13 CCR) Section 2403(b)), and certification emission levels for this engine family in grams per kilowatt-hour (g/kW-hr). Engines within this engine family shall have closed crankcases in conformance with Section 90.109 of the "California Exhaust Emission Standards and Test Procedures for 2005 and Later Small Off-Road Engines," adopted July 26, 2004.

DFI=direct fuel injection TC/SC=turbo/super charger CAC=charge air cooler 2(prefix)=parallel (2)(suffix)=in series ECM=engine control module

*=not applicable	HC+NOx (g/kW-hr)	CO (g/kW-hr)	PM (g/kW-hr)	
STANDARD	10.0	549	*	
FAMILY EMISSION LEVEL	*	*	*	
CERTIFICATION LEVEL	8.3	396	*	

BE IT FURTHER RESOLVED: That the family emission level(s) (FELs), as applicable, is an emission limit declared by the manufacturer for use in the averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2403(e)(1) and 2407(a).

BE IT FURTHER RESOLVED: That for the listed engines, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2404 (emission control labels) and 13 CCR Sections 2405 and 2406 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Quarterly reports of engines produced in this engine family for sale in California shall be submitted to the Executive Officer no later than 45 days after the end of each calendar quarter.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this \_\_\_\_\_\_day of November 2012.

Annette Hebert, Chief

Mobile Source Operations Division

Manufacturer: C Engine Family: D

Chongqing Zongshen General Power

DCZHS.2081H1

Revised:

10/8/2012

E.O. Number: U-U-082-0101

## Small Off-Road Engine Model Summary Form

Units for Table: kw

Attachment, lof 1

Worst Case?	47. Model Designation	48. Sales Code	49. Displ (cc)	50. Bore/ Stroke	51. Ignition Timing	52. Max Power	53. Rated Speed (RPM)	54. Rated Torque	55. Torque Speed (RPM)	56. Emiss Control Sys
X	ZC210	50-State	208	70/54	24	3.5	3600	10.5	2700	EM
	170-AU_	50-State	208	70/54	24	3.5	3600	10.5	2700	EM
	170-BU_	50-State	208	70/54	24	3.5	3600	10.5	2700	EM
	270-BU_	50-State	208	70/54	24	3.5	3600	10.5	2700	EM
	170-CU_	50-State	208	70/54	24	3.5	3600	10.5	2700	EM
	170-DU_	50-State	208	70/54	24	3.5	3600	10.5	2700	EM
	165-AU_	50-State	179	65/54	24	3.2	3600	9	2700	EM
	165-BU_	50-State	179	65/54	24	3.2	3600	9	2700	EM
	GH210_	50-State	208	70/54	24	3.5	3600	10.5	2700	EM
	GH180_	50-State	179	65/54	24	3.2	3600	9	2700	EM
	170F_	50-State	208	70/54	24	3.5	3600	10.5	2700	EM
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