



California Environmental Protection Agency

AIR RESOURCES BOARD

HONDA MOTOR CO., LTD.

EXECUTIVE ORDER U-M-003-0189
New Emission-Compliant
Off-Highway Recreational Vehicles

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 engine and exhaust emission control systems produced by the manufacturer are certified as described below for off-highway recreational vehicles. Production vehicles shall be in all material respects the same as those for which certification is granted. **The manufacturer shall ensure that character "C" or "3" is not used in the eighth (8th) position of the vehicle identification number (VIN) of all vehicles in the engine family listed below. Violation of this VIN provision may result in incorrect registration of the vehicles.**

MODEL YEAR	ENGINE FAMILY	ENGINE DISPLACEMENT (cc)	VEHICLE TYPE	FUEL TYPE	SPECIAL FEATURES & EMISSION CONTROL SYSTEMS
2007	7HNXX0.65ABA	649	OFMC	Gasoline	PAIR
<small>ATV=all-terrain vehicle OFMC=off-road motorcycle EM=engine modification TWC=three-way catalyst OC=oxidizing catalyst WUTWC/WUOC=warm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S EGR=exhaust gas recirculation AIR=secondary air injection PAIR=pulsed AIR MFI=multi port fuel injection SFI=sequential MFI TBI=throttle body fuel injection DFI=direct fuel injection TC/SC=turbo/super charger CAC=charge air cooler 2 (prefix)=parallel (2) (suffix)=in series</small>					
VEHICLE MODELS / ENGINE CODES (equivalent inertia mass in kilograms, kg)			XR650R / 73J1 (230 kg)		

The following are the exhaust hydrocarbon (HC) and carbon monoxide (CO) emission standards, or designated HC standard as applicable, and certification levels in grams per kilometer (g/km) for this engine family. The designated HC standard, as applicable, shall be displayed on the permanent emission control label. Vehicles within this engine family shall not discharge any crankcase emissions into the ambient atmosphere in conformance with Title 13, California Code of Regulations, (13 CCR) Section 2412(i).

CORPORATE AVERAGE STANDARD	HC (g/km)			CO (g/km)		* = not applicable
	DESIGNATED STANDARD	(DIRECT) STANDARD	CERTIFICATION LEVEL	STANDARD	CERTIFICATION LEVEL	
*	*	1.2	0.8	15.0	9.5	

BE IT FURTHER RESOLVED: That certification to the designated HC standard listed above, as applicable, is subject to the following terms, limitations and conditions:

The designated standard shall be the exhaust limit for this engine family for the model year and cannot be changed by the manufacturer. It serves as the exhaust standard applicable to this engine family for determining engine family compliance, and compliance with the corporate average HC standard in accordance with 13 CCR Sections 2412(b) and (d) and 2414.

BE IT FURTHER RESOLVED: That the listed vehicles shall be subject to 13 CCR Section 2414 (enforcement and recall provisions).

BE IT FURTHER RESOLVED: That the listed vehicles shall comply with 13 CCR Sections 1965 and 2413 (emission control labels).

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

This Executive Order is only granted to the engine family and model-year listed above. Vehicles 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 31st day of May 2006.


Allen Lyons, Chief
Mobile Source Operations Division

CERTIFICATION SUMMARY



EMISSION COMPLIANT OFF-ROAD MCs & ATVs

MODEL-YEAR 2007 MANUFACTURER: HONDA MOTOR CO., LTD. EXECUTIVE ORDER: V-M-003-0189

1. EPA-Standardized Family Name: 7HNXX0.65ABA
2. Vehicle Category: OFMC
3. All Sales Codes within Engine Family: 50S
4. All Engine Displacement(s) in Engine Family (units in cubic centimeters, (cc)):

1)	649	2)		3)		4)	
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5. Emission Standards Compliance: DSC
6. If Corporate Averaging, list Designated Standard: _____ for _____
7. Engine Design:

8. Intake, Fuel and Emission Control Systems (ECS):

a. Combustion Cycle:	Four-stroke	a. After treatment(s):	*
@ Oil / Fuel Ratio	N/A	b. Sensor(s):	*
b. Engine Type:	Reciprocating	c. Fuel System:	CARB
c. Valve train:	Overhead	d. Exhaust Gas Recirculation:	*
d. Total Number of Intake and Exhaust Valves (ports) per Cylinder:	4	e. Method of Aspiration:	NAT
e. Type of Engine Cooling:	Water	f. Air Injection Reaction:	<u>PAIR</u>
f. Number of Cylinders:	1	g. Others:	*
g. Cylinder Arrangement:	I		

9. Deterioration Factors (DFs) : a. New Durability Testing : YES _____ ; Carryover from EF: N/A ;
 b. Durability Engine Model: 2006 / XR650R ID: JH2RE01186K700174 ; c. Durability Test Distance (km/h#): 10000 ;
 d. Exhaust DF Values (no less than 1.000): HC: N/A ; NOx: N/A ; CO: N/A ; HC+NOx: N/A
10. Certification Test Engine Information: New Test: NEW ; Carryover from Engine Family: N/A
 a. Test Vehicle or Engine : Model XR650R ID: JH2RE01186K700174 Rated Power, hp: 41.0@6500 ; Test Date: 03/17/2006
 b. Equivalent Inertia Mass(kg): 230 . RLF(Nt): 121.2 . Trans: M5 . MPG: _____
 c. Test Fuel Type: IC01
 d. Special Test Equipment (e.g., cooling fans, special couplings, etc.); Yes/No: No . If Yes, describe below:

N/A

11. Certification Emission Levels: HC: 0.8 HC+NOx: 1.0 CO: 9.5

Test No. and Type	Official Test Results in (): (raw data) (i.e., no DFs)				Certification Emission in (): (i.e., with DFs applied)			
	HC	NOx	HC+NOx	CO	HC	NOx	HC+NOx	CO
1. CARB g/km	0.79	0.20	N/A	9.5	0.79	N/A	N/A	9.5
2. EPA g/km	0.79	0.20	N/A	9.5	0.79	0.20	0.99	9.5
3.								
Standard:					1.2g/km			15.0 g/km
Standard: (EPA)					*			2.0 g/km 25 g/km
Remarks:								

Issue Date: 04/06/2006 Revision Date(s): _____

ARB USE ONLY
 Processed by: [Signature] Date: 5-22-06 Reviewed by: _____ Date: _____

