California Environmental Protection Agency	BOMBARDIER	Executive Order: U-M-010-0160-1
OB Air Resources Board	RECREATIONAL PRODUCTS, INC.	New Off-Highway Recreational Vehicles/Engines Page 1 of 4

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 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-14-012;

IT IS ORDERED AND RESOLVED: 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	Vehicle Category.	Fuel Type(s)	Strokes per cycle
2018	JBCXX.976BHF	OFRSV	GAS	4
Spe	cial Features & Emissi	ion Control Systems (	ECS)	Engine(cc)
	TWC, H	O2S, MFI		976

Following are the exhaust emission standards, or designated standard as applicable, and certification levels for this engine family. The designated standard, as applicable, shall be shown 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, Section (13 CCR) 2412(i).

Exhaust Emissions (G/KM)						
Pollutant	CERT	STD	DES_STD			
HC	0.088	1.2	0.4			
HC+NOx	0.33	*	*			
CO.	1.0	15.0				

BE IT FURTHER RESOLVED: Certification to the designated 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 standard in accordance with 13 CCR 2412(b), 13 CCR 2412(d), and 13 CCR 2414.

BE IT FURTHER RESOLVED: The listed vehicles shall comply with 13 CCR 1965 and 13 CCR 2413 (emission control labels). The vehicles shall also be subject to 13 CCR 2414 (enforcement and recall provisions).

BE IT FURTHER RESOLVED: For the off-highway recreational vehicles listed above, the manufacturer has submitted materials to demonstrate certification compliance with the evaporative emission requirements in 13 CCR 2412 (b)(2), as applicable.

BE IT FURTHER RESOLVED: For 2018 through 2021 model-year off-highway recreational vehicles subject to the evaporative emission requirement in 13 CCR 2418, the manufacturer has submitted materials to demonstrate certification compliance with the phase-in requirement in 13 CCR 2418(d).

BE IT FURTHER RESOLVED: For the off-highway recreational vehicles listed above, the manufacturer has submitted materials to demonstrate certification compliance with the evaporative emission requirements in 13 CCR 2418 (Evaporative Emission Standard and Test Procedures), 13 CCR 2419 (emission control labels), and 13 CCR 2419.1 and 13 CCR 2419.2 (Defect Warranty, and Evaporative Emissions Control System Warranty Statement, respectively). The evaporative emissions standards and certification emission levels for the listed vehicles are as listed on Attachment B. The vehicles shall also be subject to 13 CCR 2419.3 (enforcement and recall provisions).

This Executive Order hereby supersedes Executive Order U-M-010-0160 dated June 23, 2017.

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

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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.

See Attachment A for vehicle descriptions, 74

Executed at El Monte, California on this L\_\_\_\_ day o

day of October 2017,

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

California Environmental Protection Agency

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## ATTACHMENT A

Make	Model	Vehicle Category	Engine (cc)	Rated Power (kW)	EIM (kg)	TRANS	Emission Controls
BOMBARDIER	CAN-AM DEFENDER HD10	OFRSV	976	53.7	750	сут	TWC, HO2S, MFI
BOMBARDIER	CAN-AM DEFENDER HD10 DPS	OFRSV	976	53.7	750	сут	TWC, HO2S, MFI
BOMBARDIER	CAN-AM DEFENDER HD10 MOSSY OAK HUNTING EDITION	OFRSV	976	53.7	860	сут	TWC, HO2S, MFI
BOMBARDIER	CAN-AM DEFENDER HD10 X MR	OFRSV	976	53.7	870	СУТ	TWC, HO2S, MFI
BOMBARDIER	CAN-AM DEFENDER HD10 X-TP	OFRSV	976	53.7	870	с∨т	TWC, HO2S, MFI
BOMBARDIER	CAN-AM DEFENDER HD10 XT	OFRSV	976	53.7	820	сут	TWC, HO2S, MFI
BOMBARDIER	CAN-AM DEFENDER HD10 XT CAB	OFRSV	976	53.7	960	с∨т	TWC, HO2S, MFI
BOMBARDIER	CAN-AM DEFENDER MAX HD10 DPS	OFRSV	976	53.7	880	сут	TWC, HO2S, MFI
BOMBARDIER	CAN-AM DEFENDER MAX HD10 XT	OFRSV	976	53.7	950	СVТ	TWC, HO2S, MFI
BOMBARDIER	CAN-AM DEFENDER MAX HD10 XT CAB	OFRSV	976	53.7	1150	СVТ	TWC, HO2S, MFI

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## **ABBREVATIONS:**

GENERAL: 13 CCR 1958, etc.=Title 13, California Code of Regulations, Section 1958, etc.; 40 CFR86.401-90, etc.=Title 40, Code of Federal Regulations, Section 86.401-90, etc.;

HIGHWAY MOTORCYCLE & OFF-HIGHWAY RECREATIONAL VEHICLE CATEGORIES: ATV or ATVA=all terrain vehicle conforming to the California definition in 13 CCR 2411(a); ATVB=Off-highway or non-road recreational vehicles that meet USEPA definition for an all-terrain vehicle or USEPA definition for an off-road utility vehicle and, in addition, meet one or more CARB definitions for an all terrain vehicle, off-road utility vehicle, off-road sport vehicle, and/or sand car; EGC=electric golf cart; HMC=on-road or highway motorcycle; HMC-IA / -IB=HMC below 50 cc / 50 cc to below 170 cc; HMC II=HMC 170 cc to below 280 cc; HMC-III=HMC 280 cc and above; OFMC=off-road motorcycle; SC=sand car above 1000 cc; OFRSV=off-road sport vehicle, including otherwise sand car but with 1000 cc engine or smaller; OFRUV=off-road utility vehicle;

FUEL TYPES: CLNG=natural gas in either CNG or LNG form; CNG / LNG=compressed / liquefied natural gas; DF\_CNG/GAS=dual-fuel CNG or gasoline, etc; DSL=diesel; GAS=gasoline; HYD=hybrid; LPG=propane or liquefied petroleum gas;

EMISSION CONTROL SYSTEMS & SPECIAL FEATURES: AFS / HAFS=air fuel ratio sensor / heated AFS; (prefix) 2, 3, 4=2, 3, or 4 catalysts, sensors, TC, SC, CAC, etc. in parallel arrangement; (parenthetic suffix) (2), (3), (4)=2, 3, or 4 catalysts, sensors, TC, SC, CAC, etc. in series arrangement; AIR / PAIR=secondary / pulsed air injection; CAC=charge air cooler; DDI / IDI=direct / indirect diesel injection; EGR=exhaust gas recirculation; EM=engine modification; O2S / HO2S=oxygen sensor / heated O2S; OC=oxidation catalyst; TC=turbocharger; TBI / MFI / SFI / DGI=throttle body / multi port / sequential / direct gasoline fuel injection; TRANS=transmission type; TWC=three way catalyst; SC=supercharger; TWC+OC=TWC plus OC in same container; (prefix) WU=warm-up catalyst;

CERTIFICATION EMISSION LEVELS & STANDARDS: bhp=brake hp; cc=cubic centimeter; CERT=certification emission level; CID=cubic inch displacement; CO=carbon monoxide; CO2=carbon dioxide; D+HS=diurnal plus hot soak evaporative emissions; DES\_STD=manufacturer designated standard; EIM=equivalent inertia mass; EVAP=evaporative family; FEL=family emission limit; g=gram; gal=gallon; g/bhp-hr=grams per brake horsepower-hour; g/km=grams per kilometer; g/kW-hr=grams per kilowatt-hour; g/m2-day=grams per square meter per day; g/test=grams per test; HC=(total) hydrocarbons; hp=horsepower; hr=hour; K=1000 miles; kg=kilograms; km=kilometer; kW=kilowatt; L=liter; m2=square meter; mi=mile; mg=milligram; NOX=oxides of nitrogen; NMHC=non methane hydrocarbons; PEVAP=permeation evaporative family; STD=emission standard; \*=not applicable; (superscript) o=degree (temperature); oF=degree Fahrenheit; oC=degree Celsius.

Attachment B Supplemental Data Sheet -OHRV Evaporative Systems

	Suppl	emental Data S	sheet -OHRV	Evaporative Syster	ns	EO # U-M-010-0	)160-1
		Evaporat	ive Family D	escription			
Manufacturer	Bombardier Re	ecreational Produc	cts inc.	Evaporative Family		JBCXU004313A	
Model Year	2018						
Manufacturer Size (Check One)	Large x	Small	]				
Advanced Fuel System Credits	Yes	No	x				
Compliance Option (Check One)	72-Hr.	24-Hr.		Certify by Design		Certify by Design	
	Diurnal x	Diurnal		Using Mfr.'s Data		Reference CARB EO	
Durability Basis (Check One)	UL Vehicle x	DF					
		Emissio	on Data Vehi	cle (EDV)			
Engine Family	JBCXX.976BHF	Evapora	tive Family	JBCXU004313A		EDV Model Year	2018
Fuel System	Carburetor MFI x	TBI SFI		DFI		Other	
Canister	Volume (cc)	350 W/C (gra	ms) 43.2	N/A			
Purge Valve	Yes x	No					
Pressure Vent Valve	Yes x	No					
		Durabili	ty Data Vehi	cle (DDV)			
Engine Family	JBCXX.976BHF	Evapora	tive Family	JBCXU004313A		DDV Model Year	2018
Fuel System	Carburetor MFI x	TBI SFI		DFI		Other	
Canister	Volume (cc)	850 W/C (gra	ms) 43.2				
Purge Valve	Yes x	No					
Pressure Vent Valve	Yes x	No					
72-Hour I	Diurnal Test (TO	G G/Day)					
CERT	0.423						
STD	1 N/A						
DF	N/A						
Pass Fuel Leakage Tip Test?	Yes x	No					
		24-Hour Diurn	nal Test (TO	G G/Day)			٦
CERT							
STD							
DF							
Vented Emissions Compliance.	6.4.2.5. a) NVL	≥ VI <sub>total</sub> ?	Yes		No		
(Select One)	6.4.2.5. b) Use	2 psig PVV?	Yes	·	No		
	6.4.2.5. c) No F	VV release?	Yes		No		
Pass Fuel Leakage Tip Test?	Yes	No				w	
SVI	M Certify By Des						
	Fuel Tank Fu Perm. Per	se Capac	ter Working bity per Fuel k Volume				
CARB Component EO Number							
CERT STD							
Pass Fuel Leakage Tip Test?	Yes	No					
ABBREVIATIONS: CARB=California				nases: CERT=certification la	vel: STD=cer	tification standard: EEEL =ovenors	ative family
ABBREVIATIONS: CARE=California emission limit; DF=deterioration factor multiport fuel injection; DFI=direct gas	: UL=useful life; EDV=en	nission data vehicle; D pounds per square inc	DV=durability data ch - gauge; W/C=c	a vehicle; TBI=throttle body f anister nominal gasoline wo	uel injection;	MFI=multiport fuel injection; SFI=s	sequential
		(	CARB Use O	nly			

	100	CARB	Use Only		
Processed by:	316	Date: <u>9-27-17</u>	Reviewed By:	844	Date: 9/25/17
				Snj	årgen 9/28/17