California Environmental Protection Agency AIR RESOURCES BOARD	S & S CYCLE, INC.	EXECUTIVE ORDER M-044-0003 New On-Road Motorcycle Engines

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 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 emission control systems produced by the manufacturer are certified for use as a replacement engine in two-wheeled motorcycles as described below. Production engines shall be in all material respects identical to those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	EVAPORATIVE FAMILY	ENGINE DISPLACEMENTS (cc)	CLASS
2003	3SSXC0113161	3SSXE0066161	1853	III
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		ENGINE MODEL		* = not applicable
EM		113		

ABBREVIATIONS: 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

The above-listed engine is certified to replace the existing engines of Harley-Davidson models that use the engines and evaporative systems listed on the supplemental data sheet for this executive order.

The following are the exhaust hydrocarbons (HC) and carbon monoxide (CO) standards, or designated HC standard as applicable, and certification levels in grams per kilometer (g/km), and evaporative standard and certification level in grams per test (g/test) for this engine/evaporative family. The designated HC standard, as applicable, shall be listed on the permanent tune-up label.

HC (g/km)				CO (g/km)		EVAPORATIVE (g/test)	
CORPORATE AVERAGE STANDARD	DESIGNATED STANDARD	(DIRECT) STANDARD	CERTIFICATION LEVEL	STANDARD	CERTIFICATION LEVEL	STANDARD	CERTIFICATION LEVEL
1.4	0.9	*	0.6	12	12	2.0	1.2

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 HC standard shall be the exhaust emission limit for this engine family and cannot be changed during the model year. It serves as the HC exhaust standard applicable to this engine family for determining compliance with Title 13, California Code of Regulations, Sections 1958(b) and 2101.

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Code of Regulations, Sections 2035 et seq.).

BE IT FURTHER RESOLVED: That this executive order does not provide an opinion as to the effect that the use of the aforementioned engine family as a replacement engine may have on the original vehicle manufacturer's warranty, either expressed or implied, for the vehicle applications listed on the supplemental data sheet of this executive order.

BE IT FURTHER RESOLVED: That compliance with "California Evaporative Emission Standards and Test Procedures for 2001 And Subsequent Model Motor Vehicles" has been demonstrated for the use of the aforementioned engine family as a replacement engine in the listed vehicle applications.

BE IT FURTHER RESOLVED: The use of the this engine family as a replacement engine in the vehicle applications listed on the supplemental data sheet of this executive order is exempted from compliance with the Air Resources Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" pursuant to Executive Order G-70-16-E.

Engines 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. 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 20TH day of August 2002.

Allen Lyons, Chief
Mobile Source Operations Division

ATTACHMENT

EXECUTIVE ORDER **M-044-0003**

2003 MODEL-YEAR AIR RESOURCES BOARD **SUPPLEMENTAL DATA SHEET**
ON-ROAD MOTORCYCLE ENGINES

Manufacturer: S & S Cycle, Inc. Replacement Engine Family: 3SSXC0113161

Model	Engine Code	EIM (kg)	RL Force (nt)	N/V
113	113-EV-1	530	173.9	26.3

The above listed EIM and N/V shall be the maximum allowed for the donor vehicle into which this replacement engine is installed.

The above-listed engine is certified to replace the existing engines of Harley-Davidson models that use the engines and evaporative systems listed below.

Model Year	Engine Family	Evaporative Family
1984	EV1340	EVAP-A
1985	EV1340	EVAP-A
1986	EV1340	EVAP-A
1987	EV1340	EVAP-A
1988	EV1340	EVAP-B
1989	EV1340	EVAP-B
1990	EV1340	EVAP-B
1991	EV1340	EVAP-B
1992	EV1340	EVAP-C
1993	EV1340	EVAP-C
1994	RHD1.3P1GARA	RHD6066ANM01
1995	SHD1.3P1GOAA	SHD6066ANM01
1995	SHD1.3P8GARA	SHD1066AYM02
1996	THD1.3P1GOAA	THD6066ANM01
1996	THD1.3P8GARA	THD1066AYM02
1997	VHD1.3P1GAAA	VHD6066ANM01
1997	VHD1.3P8GARA	VHD1066AYM02
1998	WHDXC01.3CCA	WHDXC0066CCA
1998	WHDXC01.3AEA	WHDXC0066ACB
1999	XHDXC01.3CCA	XHDXC0066CCA
1999	XHDXC01.3AEA	XHDXC0066ACB
2000	YHDXC01.3CCA	YHDXC0066CCA
2000	YHDXC01.3AEA	YHDXC0066ACB