California Environmental Protection Agency AIR RESOURCES BOARD	BRIGGS & STRATTON CORPORATION	EXECUTIVE ORDER U-U-002-0460-1 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)	ENGINE CLASS	FUEL TYPE
2008	8BSXS.3422SW	305, 342	4-stroke, ≥ 225 cc	Gasoline

DURABILITY HOURS	SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
250	Engine Modification	Snowblower
ENGINE MODELS (rated power in kilowatt, kW)	See Attachments	

The following are the 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).

*=not applicable	CO (g/kW-hr)	PM (g/kW-hr)
STANDARD	549	*
FAMILY EMISSION LEVEL	*	*
CERTIFICATION LEVEL	340	*

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).

BE IT FURTHER RESOLVED: That because the listed engine models shall be used exclusively in wintertime snowblower and/or ice auger products only (13 CCR Section 2403(b)(5)), the equipment is exempt from complying with 13 CCR, Chapter 15, Article 1 (evaporative emission requirements for off-road equipment).

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.

This Executive Order hereby supersedes Executive Order U-U-002-0460 dated November 14, 2007.

Executed at El Monte, California on this 6 day of May 2008.

Annette Hebert, Chief
Mobile Source Operations Division

Attachment 1 of 4

Model Year: 2008
Manufacturer: Briggs & Stratton Corporation
Engine Family: 8BSXS.3422SW

Issued:
Revised: 4/23/2008
E.O. Number: 0-0-002-0460-1

Small Off-Road Engine Model Summary Form

Units for Table: kW

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	20A1	50-State	305	79.2 / 61.9	23	6.9	3600	19.7	2800	EM
	20M1	50-State	305	79.2 / 61.9	23	6.9	3600	19.7	2800	EM
	20A4	50-State	305	79.2 / 61.9	23	6.9	3600	19.7	2800	EM
	20M2	50-State	305	79.2 / 61.9	23	6.9	3600	19.7	2800	EM
	20B4	50-State	305	79.2 / 61.9	23	6.9	3600	19.7	2800	EM
	20P2	50-State	305	79.2 / 61.9	23	6.9	3600	19.7	2800	EM
	20X1	50-State	305	79.2 / 61.9	23	6.9	3600	19.7	2800	EM
	20X2	50-State	305	79.2 / 61.9	23	6.9	3600	19.7	2800	EM
	20Z1	50-State	305	79.2 / 61.9	23	6.9	3600	19.7	2800	EM
	20Z2	50-State	305	79.2 / 61.9	23	6.9	3600	19.7	2800	EM
	20E1	50-State	305	79.2 / 61.9	23	7.6	3600	21.0	2800	EM

Attachment 2 of 4

Model Year: 2008
Manufacturer: Briggs & Stratton Corporation
Engine Family: 8BSXS.3422SW

Issued:
Revised: 4/23/2008
E.O. Number: U-U-002-0460-1

Small Off-Road Engine Model Summary Form

Units for Table: kW

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
	20M3	50-State	305	79.2 / 61.9	23	7.6	3600	21.0	2800	EM
	20E2	50-State	305	79.2 / 61.9	23	7.6	3600	21.0	2800	EM
	20M4	50-State	305	79.2 / 61.9	23	7.6	3600	21.0	2800	EM
	20E3	50-State	305	79.2 / 61.9	23	7.6	3600	21.0	2800	EM
	20P4	50-State	305	79.2 / 61.9	23	7.6	3600	21.0	2800	EM
	20X3	50-State	305	79.2 / 61.9	23	7.6	3600	21.0	2800	EM
	20X4	50-State	305	79.2 / 61.9	23	7.6	3600	21.0	2800	EM
	20Z3	50-State	305	79.2 / 61.9	23	7.6	3600	21.0	2800	EM
	20Z4	50-State	305	79.2 / 61.9	23	7.6	3600	21.0	2800	EM
	21C1	50-State	342	83.8 / 61.9	23	8.1	3600	23.0	2800	EM
	21M1	50-State	342	83.8 / 61.9	23	8.1	3600	23.0	2800	EM

Attachment 3 of 4

Model Year: 2008
Manufacturer: Briggs & Stratton Corporation
Engine Family: 8BSXS.3422SW

Issued:
Revised: 4/23/2008
E.O. Number: U-U-002-0460-1

Small Off-Road Engine Model Summary Form

Units for Table: kW

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
	21C2	50-State	342	83.8 / 61.9	23	8.1	3600	23.0	2800	EM
	21M2	50-State	342	83.8 / 61.9	23	8.1	3600	23.0	2800	EM
	21C3	50-State	342	83.8 / 61.9	23	8.1	3600	23.0	2800	EM
	21P2	50-State	342	83.8 / 61.9	23	8.1	3600	23.0	2800	EM
	21X1	50-State	342	83.8 / 61.9	23	8.1	3600	23.0	2800	EM
	21X2	50-State	342	83.8 / 61.9	23	8.1	3600	23.0	2800	EM
	21Z1	50-State	342	83.8 / 61.9	23	8.1	3600	23.0	2800	EM
	21Z2	50-State	342	83.8 / 61.9	23	8.1	3600	23.0	2800	EM
	21A1	50-State	342	83.8 / 61.9	23	8.1	3600	23.6	2800	EM
	21M3	50-State	342	83.8 / 61.9	23	8.1	3600	23.6	2800	EM
	21A4	50-State	342	83.8 / 61.9	23	8.1	3600	23.6	2800	EM

Attachment 4 of 4

Model Year: 2008
Manufacturer: Briggs & Stratton Corporation
Engine Family: 8BSXS.3422SW

Issued:
Revised: 4/23/2008
E.O. Number: U-U-002-0460-1

Small Off-Road Engine Model Summary Form

Units for Table: kW

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
	21M4	50-State	342	83.8 / 61.9	23	8.1	3600	23.6	2800	EM
	21B4	50-State	342	83.8 / 61.9	23	8.1	3600	23.6	2800	EM
	21X3	50-State	342	83.8 / 61.9	23	8.1	3600	23.6	2800	EM
	21Z3	50-State	342	83.8 / 61.9	23	8.1	3600	23.6	2800	EM
	21P3	50-State	342	83.8 / 61.9	23	8.2	3600	23.2	2800	EM