



GENUINE MOTOR PARTS AND MOTOR ACCESSORIES BULLETIN



PAB1089

2019-11-08

PAB1089: SCREAMIN' EAGLE UPDATES FOR NOVEMBER 2019

Purpose for Parts and Accessories Bulletin

To inform dealers of:

- Screamin' Eagle® Pro Street Tuner calibrations on 2020 Touring models equipped with RDRS (Reflex Defensive Rider Systems).
- Software enhancement to Screamin' Eagle Pro Street Tuner software for 2020 Touring models at WOT (Wide Open Throttle).
- **U.S. - California:** CARB (California Air Resources Board) approval on 2020 Milwaukee-Eight® and Sportster® Screamin' Eagle Stage IV kits.

Markets Affected

All markets are affected.

Key Messages

- Screamin' Eagle calibrations for 2020 RDRS equipped models are currently being updated due to lack of peak performance levels. Updates to calibrations will be announced as they are released.
- Update all the dealer's computers with the latest Pro Street Tuner software. The software is available for update through the normal update process.
- **U.S. - California:** CARB approval of 2020 Screamin' Eagle performance products will be communicated through the bulletin process as Harley-Davidson receive additional approvals.

Summary and Part Affected

Screamin' Eagle Calibrations for 2020 RDRS Touring Models

Harley-Davidson has discovered that 2020 Touring models equipped with RDRS and Screamin' Eagle calibrations are not reaching expected performance improvement levels set by the Screamin' Eagle team. The team is working through the necessary changes to Pro Street Tuner calibrations for 2020 FL models with RDRS. Harley-Davidson is anticipating having the new calibrations published by early December and will update dealers of the new calibrations through this bulletin.

Pro Street Tuner & Corresponding Software

- The Screamin' Eagle team has identified and provided adjustments of AFR (Air/Fuel Ratio) at WOT not previously allowed. The WOT fuel adjustability is made through Lambda Performance Enrichment. Allowing the optimization of these AFR at WOT improves top end performance while still being within compliance.
- See Figure 1. The Lambda Main Table is now set completely closed loop on 2020 Touring calibrations.
- See Figure 2. Lambda Performance Enrichment is enabled when rpm (Revolutions Per Minute) is greater than 2500 rpm and throttle position is greater than 70%. Lambda Performance is adjustable from 0.800 Lambda (11.4:1 AFR) to 0.900 Lambda (12.8:1 AFR) with the default setting set to 0.870 Lambda (12.4:1 AFR). Lambda Performance Enrichment above 25 s is not adjustable to mitigate high exhaust gas temperatures.

Stage IV Kits – Sportster:

- **U.S. - California:** Stage IV and upgrade kits are now approved for use in 2020 Sportster models. Refer to Table 1 and Table 2.



Table 1. Screamin' Eagle Stage IV Kits

Part No.⁽¹⁾	Description
92500041	Black Highlighted Heads
92500042	Black Non-Highlighted Heads

(1) Sportster Stage IV kits require separate purchase of 58 mm compatible accessory air cleaner. All models require ECM (Electronic Control Module) calibration with Screamin' Eagle Pro Street Tuner for proper installation.

Table 2. Screamin' Eagle Stage Upgrades Kits

Part No.⁽¹⁾	Description
27200026	High-Flow 58 mm EFI (Electronic Fuel Injection) Throttle Body & Manifold
29400227A	Heavy Breather Performance Air Cleaner Kit - Gloss Black
29400228	Heavy Breather Performance Air Cleaner Kit - Chrome

(1) Sportster Stage IV kits require separate purchase of 58 mm compatible accessory air cleaner.

Stage IV Kits – Milwaukee-Eight:

- **U.S. - California:** Stage IV kits are now approved for use in 2020 Softail®, Touring, and CVO™ models. Refer to Table 3.

Table 3. Screamin' Eagle Kits

Part No.	Engine CI (Cubic Inch)⁽¹⁾		Engine Cooling Type
	From	To	
92500062	107	114	Air/Oil
92500073	114	117	Air/Oil
92500076	117	117	Air/Oil
92500060	107	114	Twin Cooled
92500088	114	117	Twin Cooled
92500064	117	117	Twin Cooled

(1) All models require ECM calibration with Screamin' Eagle Pro Street Tuner for proper installation.

Questions

Contact Technical Service with any concerns regarding application. Direct all other questions to the Dealer Services Representative.

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Paste

Decrease

Increase

0.007

Original**Air-Fuel Ratio**☒ Display as Lambda values☐ Display as Air-Fuel Ratio**MAP (kPa)**

RPM	20	30	35	40	50	60	70	80	85	90	95	100
750	0.996	0.996	0.996	0.995	0.993	0.990	0.986	0.986	0.986	0.986	0.986	0.986
1000	0.996	0.996	0.996	0.995	0.993	0.990	0.986	0.986	0.986	0.986	0.986	0.986
1250	0.997	0.996	0.996	0.994	0.993	0.990	0.986	0.986	0.986	0.986	0.986	0.986
1500	0.998	0.995	0.995	0.992	0.992	0.990	0.990	0.986	0.986	0.986	0.986	0.986
1750	0.998	0.995	0.993	0.991	0.991	0.990	0.990	0.986	0.986	0.986	0.986	0.986
2000	0.998	0.996	0.992	0.990	0.991	0.991	0.991	0.986	0.986	0.986	0.986	0.986
2250	0.994	0.992	0.991	0.990	0.990	0.991	0.991	0.986	0.986	0.986	0.986	0.986
2500	0.993	0.991	0.991	0.990	0.990	0.989	0.989	0.986	0.986	0.986	0.986	0.986
2750	0.992	0.990	0.990	0.989	0.989	0.988	0.988	0.986	0.986	0.986	0.986	0.986
3000	0.991	0.989	0.989	0.988	0.988	0.986	0.986	0.986	0.986	0.986	0.986	0.986
3500	0.989	0.987	0.987	0.987	0.987	0.985	0.986	0.986	0.986	0.986	0.986	0.986
3750	0.983	0.983	0.983	0.983	0.983	0.983	0.986	0.986	0.986	0.986	0.986	0.986
4000	0.940	0.940	0.940	0.940	0.940	0.940	0.986	0.986	0.986	0.986	0.986	0.986
4500	0.904	0.904	0.904	0.904	0.904	0.904	0.986	0.986	0.986	0.986	0.986	0.986
5000	0.877	0.877	0.877	0.877	0.877	0.877	0.986	0.986	0.986	0.986	0.986	0.986

Figure 1. Lambda Main Table

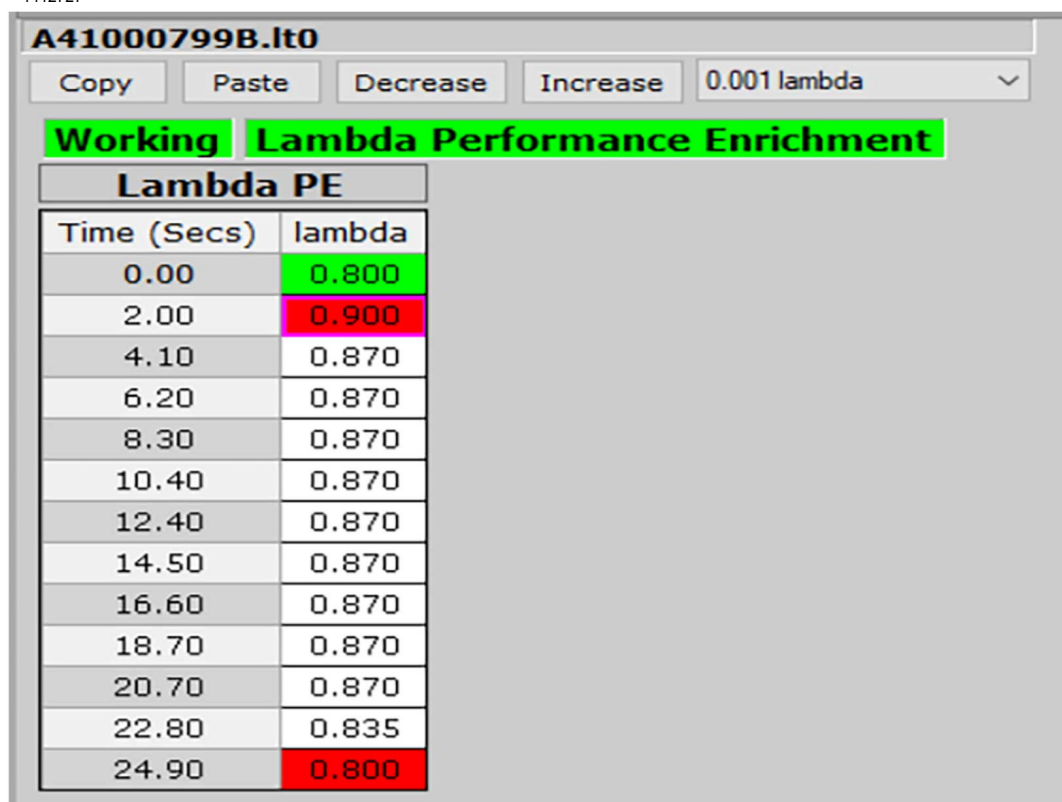


Figure 2. Lambda Performance Enrichment