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REF: Engine Mechanicals - Sub-02A

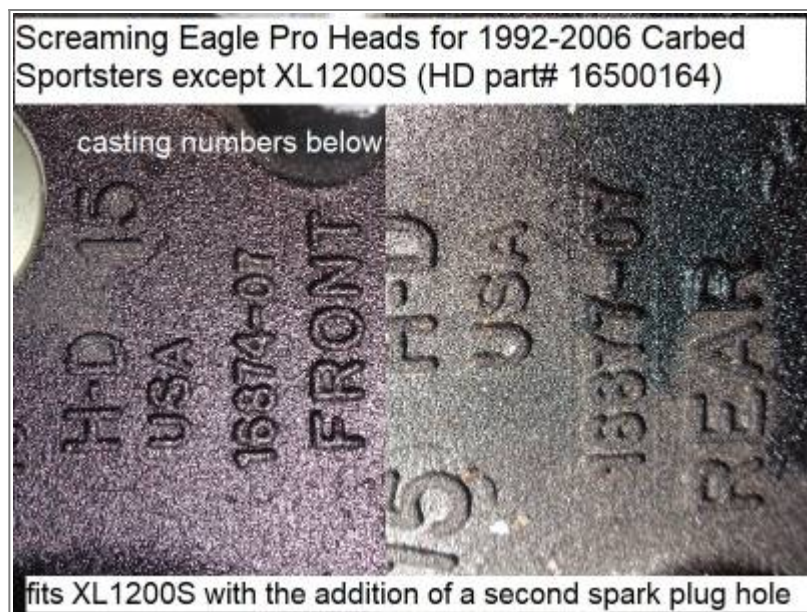
Screaming Eagle Pro CNC Ported Heads

Intended for High Performance or Racing applications only. Not legal for sale or use on pollution controlled motorcycles. ¹⁾

When adjusting spring seat pressure, maintain a minimum 0.070 in. travel to coil bind. All springs must each be of equal heights if adjustment is required.

Every 0.015 in. reduction of spring length increases seat pressure by 3.8 lbs,			
Standard spring height	Seat pressure	Desired seat height	Seat Pressure
Intake: 2.059 in.	200 lbs.	0.015 in. shim (18224-98) under lower spring seat	3.8 lbs. of added seat pressure
Exhaust: 2.064 in.	200 lbs.	0.030 in. shim (18225-98) under lower spring seat	7.6 lbs. of added seat pressure
To reduce seat pressure, every 0.015 in. machined out of lower spring collar area is 3.8 lbs. of seat pressure reduction			

Click on a pic to enlarge:





Standard Screaming Eagle Pro CNC Heads ²⁾



Standard Screaming Eagle Pro heads machined for 2nd plug for S models ³⁾



SE Pro heads (cookie cutter machining in ports) ⁴⁾

Kit # 16500164 ⁵⁾

Part No.	Description	Quantity
165000163	Front Head (bare), casting no. 16874-07	1
165000162	Rear Head (bare), casting no. 16877-07	1
Not sold separately	Head (complete assembly)	2
18015-03B Sold as part of the SE valve spring kit	Upper valve spring collar	4
18016-03 Sold as part of the SE valve spring kit	Lower valve spring & valve guide seal	4
16715-83	Exhaust port stud	4
18010-05	Intake valve	2
18028-05	Exhaust valve	2
18260-02 Sold as part of the SE valve spring kit	Valve collar retainer	8
Not sold separately Sold as part of the SE valve spring kit	Valve spring	4
18013-03A Also sold separately	SE valve spring kit	1
18020-07 Also sold separately	Intake valve seat	1
18011-86 Also sold separately	Exhaust valve seat	1

16461-02 Also sold separately	Intake and exhaust valve guide	1
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HD SE Pro Instruction Sheet J05616 pg 1

2)

photos by rocketmangb

<https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-motor-engine/sportster-motorcycle-motor-top-end/188840-screaming-eagle-cnc-ported-heads-now-with-pictures?t=2010619>

3) 4)

photos by hippysmack

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