

PS-6020-RHS, HIGH SPEED REBOUND SHAFT ASSEMBLY



Figure 1:
PS-6020-RHS

The high speed rebound shaft enables the user to maintain a specific nose profile while increasing or decreasing wanted or unwanted high speed, or change the zero point without adding bleed.

On average, there are 20 - 22 "clicks" of adjustment depending on the shim arrangement and/or inner shaft offset. A fixed .060 bleed jet is fitted in the shaft above the PRS dual bleed check system. The dual bleed check system takes the place of a bleed shim and bleed hole drilled in the piston. By using the system, bleed can be easily changed in both directions without having to disassemble or alter the main build, thus saving time and reducing the cost of having multiple bleed shim and piston inventory.

All attributes combined, the RHS shaft and 22 "clicks" of adjustment essentially provide twenty-two different shocks in one, ultimately decreasing the amount of time a user has to spend on tuning at the rig or track.

The PS-6020-RHS is available in lengths of 5.0", 6.0", 7.0", 8.0", and 9.0", and can be purchased alone or incorporated into the price of a new shock. A 2.1" eyelet and MO-8T mono ball are standard, but users may also request different eyelet and mono ball sizes.*

Users also have the option to utilize their existing standard shafts, by sending them to Penske Racing Shocks for modification.

The PS-6020-RHS shaft assembly is now available for use in 2010 competition in NASCAR, ARCA, and other professional racing series.

The PS-6020-RHS shaft uses a three-piece inner shaft design. After extensive testing for durability and repeatability, it was found that a one-piece shaft was more susceptible to heat expansion and uncontrollable fade throughout a run. The three-piece system design allows for the inner shaft to expand and contract with temperature but never affect the preload of the cage/shims; therefore having no ill effects on the rebound curve.

The RHS cage is used to achieve a desired high or low speed curve shape. The cage accommodates both 1.350" and 1.475" diameter shims. It is compatible with all PRS pistons, including Enhanced Linear Flow and Variable Bleed, and can also be used in conjunction with the digressive blow-off system to allow for a very digressive, or even regressive, curve profile.

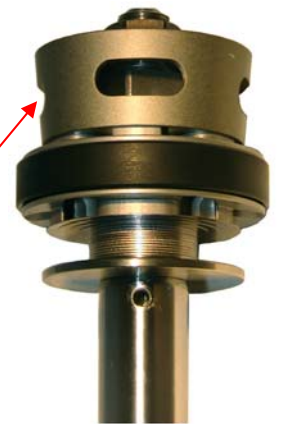


Figure 2:
1.475 to 1.350 Cage

The Competitive Advantage of Champions

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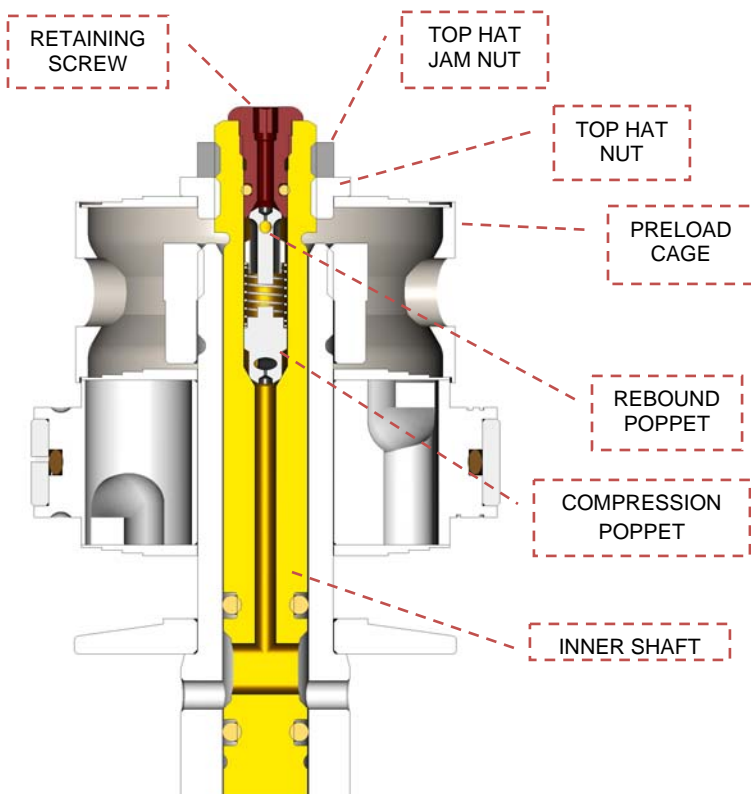


Figure 3: PS-6020-RHS Schematic

BILL OF MATERIALS		Quantity
Part No.	Description	Per Unit
BA-093-ST	Ball, 3/32 Steel	4
CA-73HSR-1475	Preload Cage, RHS, 1.475"	1
EY-7321HS*	Eyelet, 2.1" High Speed Blow off	1
JT-DBCHK-084A	Dual Bleed Check Valve Poppet	2
MO-8T*	Mono ball, .500" ID X 1.00" OD	1
MR-RHS__	Metering Rod, RHS Shaft (160, 180, 200, 220, 240)	1
NT-04J	Jam Nut, .625 X 18	1
NT-76CDJ	Jam Nut, RHS CD Shaft Top Hat	1
NT-76CDT	Nut, RHS CD Shaft Top Hat	1
OR-2.5X1.0-V	O-ring, 2.5mm X 1.0mm Viton, Brown	1
OR-2008-B	O-ring, 2-008 Buna 70 Duro	2
RR-16	Retaining Ring, 1.025 Spiroloc Stainless	2
RS-73HSR	Retaining Screw, RHS	1
SC-125	Screw, Socket Set 6/32 X 125	2
SC-F1-DBCHK-RET	Screw, Dual Bleed Check Retaining Ring	1
SH_ __A-RHS	Shaft, Adjustable (160, 180, 200, 220, 240)	1
SH-RHS-INNER	Shaft, RHS Inner Locknut	1
SP-13	Spring,	2
SP-17	Spring, (N-5)	1

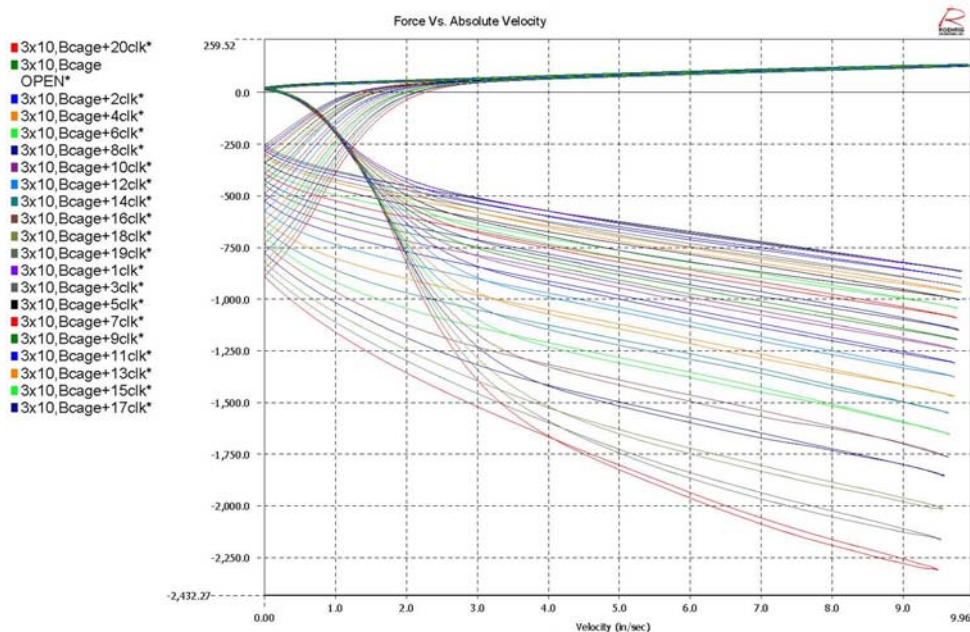


Figure 4: PS-6020-RHS Typical Adjustment Effect

PS-6020-RHS.....\$435.00 each
 High Speed Rebound Shaft Option (NEW)

PS-6020-RHS.....\$380.00 each
 High Speed Rebound Shaft Option (Customer Donated Shaft)

PS-6020-RHS.....\$325.00 each
 High Speed Rebound Shaft Option (With NEW shock purchase)

***Additional Eyelet Options**

EY-81160-C	no charge
EY-811690-C	no charge
EY-7326HS	add \$60.00
EY-7331HS	add \$60.00
EY-7336HS	add \$60.00
EY-7341HS	add \$60.00

***Additional Mono ball Options**

MO-15T	no charge
MO-8T-48	add \$5.00
MO-6T-38	add \$63.00

Delivery and Conditions:

The shaft will be available in January-February 2010. Pre-orders are recommended. Those donating shafts for modification are asked to do so in minimum lots of 20.