



## Dodge **ASC Viper Diamondback** - 2006



**Dodge** originally enlisted the help of ASC (American Specialty Cars) in the development of the Viper, so the ASC Diamondback project is a fitting development of the original Viper philosophy of a huge engine in a sports car just large enough to cope.

ASC have taken an already extreme car and made it more so as a showcase for their OmniCarbon process ( a compression-molding process for carbon-fibre). The Viper has been re-skinned with new carbon-fibre roof, rear deck, rockers, fascia inserts, body trim and hood. The result of this extensive use of carbon fibre is a 85 pound

reduction in weight, the carbon hood weighs half that of the production version.

ASC enlisted McLaren Performance Technologies (no relationship to McLaren England) to develop the already potent V10. The result is a visual treat with the 10 chrome intake trumpets standing proud through the hood.

The result of the weight reduction and engine enhancements is among other things a 0-60 time of 3.5 and a power to weight ratio of Power to weight 0.4 bhp / kg.

**Rod Halligan**

### ASC Viper Diamondback

- 8.277 litre    505.1 cu in
- 615 bhp       459 KW
- 3417.2 lbs    1550 kilo
- All Aluminum V10
- 0.4 bhp / kg
- 74 bhp / liter
- 0-60 mph    3.5 seconds



2010

Dodge ASC

Viper

Diamondback

USA

Cocnept

2006

Dodge ASC

Viper

Diamondback

USA

Concept



Dodge ASC Viper Diamondback

<b>Year</b>	2006
<b>ENGINE</b>	
<b>Configuration</b>	90° V 10
<b>Layout</b>	Front Longitudinal
<b>Displacement</b>	8277 cc      505.1 cu in
<b>Bore</b>	102.4 mm    4 in
<b>Stroke</b>	100.6 mm    3.96 in
<b>Valvetrain</b>	Pushrod 2 valves, OHV
<b>Fuel feed</b>	Multi Point Fuel Injection
<b>Induction</b>	Naturally Aspirated
<b>Power</b>	615 bhp      459 KW
<b>Compression</b>	9.6:1
<b>BHP/Liter</b>	76 bhp / liter
<b>Power to weight</b>	0.4 bhp / kg

<b>BODY</b>	
Fibreglass and aluminium body on steel backbone spaceframe	
<b>Weight</b>	1480 kilo / 3262.8 lbs
<b>Length</b>	4459 mm / 175.6 in
<b>Width</b>	4459 mm / 175.6 in
<b>Height</b>	1210 mm / 47.6 in
<b>Wheelbase</b>	2510 mm / 98.8 in
<b>Front track</b>	1565 mm / 61.6 in
<b>Rear track</b>	1547 mm / 60.9 in

<b>DRIVE</b>	
<b>Rear Wheel Drive</b>	
<b>Transmission</b>	6 speed Manual

<b>SUSPENSION/WHEELS/BRAKES</b>	
<b>Front</b>	double wishbones, coil springs, gas pressurised shock absorbers, anti-roll bar
<b>Rear</b>	double wishbones, toe control links, coil springs, gas pressurised shock absorbers, anti-roll bar
<b>Front brakes</b>	Brembro Vented Discs 4-Pot Calipers x 356 mm / x 14.0 in
<b>Rear brakes</b>	Brembro Vented Discs 4-Pot Calipers x 356 mm / x 14.0 in
<b>Front wheels</b>	F45.7 x 25.4 cm 8.0 x 10.0 in
<b>Rear wheels</b>	R48.3 x 33.0 cm 19.0 x 13.0 in
<b>Front tires</b>	P275/35ZR18
<b>Rear tires</b>	P345/30ZR19

<b>PERFORMANCE</b>	
<b>0 - 60 mph</b>	3.5 seconds