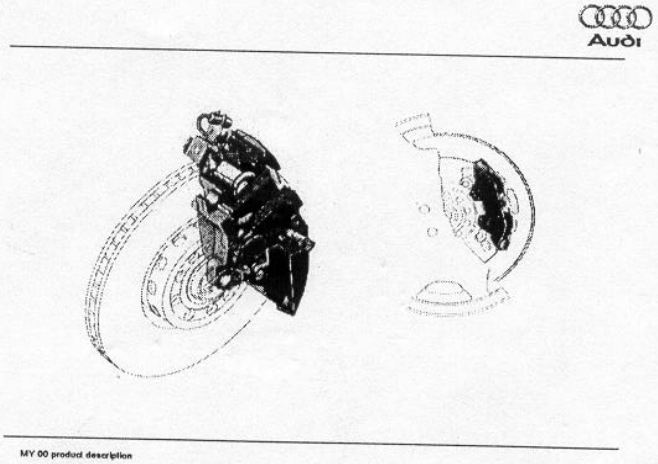
#2

What, other than power, are the key components of the S4's superior handling capability?



❑ HP2 Brakes

The S4 features 12.6 in ventilated discs on 16 inch rotors and high-performance twin-piston HP2 calipers. At the rear 10.1 inch ventilated discs. The system design offers diagonally split dual circuits, ABS/EBV, and a brake booster servo.

❑ **The Turbo Concept**

A turbo engine utilizes an impeller, driven by exhaust gases, which forces more air into the combustion chamber at high pressures which in turn creates a better and more even burn which improves combusion and generates more power.

❑ **Why a 2.7 liter engine and not a 2.8?**

With the addition of the bi-turbo, it became necessary to build an engine that would compensate for the higher combusion pressures theat result with turbo-charging. The smaller bore handles the combusion pressure better and in so doing will last longer than a 2.8 under the same pressure. A second reason the engineers decreased the bore was to reduce engine noise. The larger the bore the noiser the engine.

❑ **The Bi-Turbo and Twin Turbo** are two names for the same system. By introducing two small turbo chargers instead of one large one, Audi has cheated the moment of inertia. Shortened exhaust distances and a charge cooling system for each cylinder block enable the engine to build up enor-mous power and - when combined with quattro - make it possible for the S4 to deliver more tractive power and provide more power reserve which is especially evident while accelerating in 6th gear. Its acceleration reading is 0 to 60 in 5.9 seconds. [Manual]

❑ **Environmental Benefit**

The intelligent exhaust temperature control, with maximum readings under 1,000°C, and two primary catalytic converters ensure that the engine produces low emissions.