FIRE-BREATHING FOURS FROM SIX HOT TUNERS!



FIRST LOOK: 2001 DaimlerChrysler Minivan

3

BMW M5 vs. Jaguar XJR vs. Mercedes E55 AMG

NEW: Acura CL, Bentley Arnage Red Label, Ford Explorer Sport Trac. **TESTED:** Mercedes CL500, Oldsmobile Aurora V-8, Panoz AIV. **PLUS:** Auditioning high-end car stereos with J. Geils and Neeme Järvi.



Battle of the Best

The fastest four-doors face off.

BY CSABA CSERE

n the day it went public, your dot.com company's stock was wildly oversubscribed. Despite a complete inability to return profits, its stock is rising on a trajectory steeper than the space shuttle's. Time to stock your adult toy chest before the investors wise up.

You picked up a pricey two-seater after that glorious public offering, but it's not exactly suited to ferrying you and your colleagues to your daily business meetings. Your swollen stock provides the freedom to buy anything on the market, but showing up every day in a Bentley or a Roller gives the wrong impression in the superficially egalitarian circles of the casually dressed West Coast high-tech executive set. Besides, when you're not rearranging electrons to energize Web traffic, you love driving, and you want a sedan that's as exciting and involving as the low-slung sportster with which it will be sharing garage space.

Among the hundreds of models offered by the world's automakers are three that fit these requirements perfectly. They are all powered by gutsy V-8 engines and are fitted with high-performance suspensions, beefy brakes, and sticky steamroller-like tires. And none of them will raise any eyebrows among the unwashed, because they're all variations on models driven by legions of dentists and tax accountants.

The newest of this robust trio is the BMW M5. It's the third 5-series to be enhanced by the ministrations of the company's motorsports department and the first M5 not powered by a descendant of the 24-valve, twin-cam six introduced in the legendary BMW M1 supercar some 20 years ago.

The engine in this new M5, called the S62, is derived from BMW's 4.4-liter corporate V-8, with several important changes. An increased bore and stroke enlarges its displacement from 4398 to 4941cc. A new induction system with dual air cleaners and airflow meters and eight individual throttles feeds the larger engine's appetite for air. BMW's double VANOS system, which can independently vary the timing of the intake and exhaust camshafts over a range of 60 degrees,

makes the most of this deep-breathing induction system. An 11.0:1 compression ratio (up from 10.0:1) extracts maximum energy from the trapped charge, while a low-restriction exhaust system with two catalysts and four thick tailpipes reduces the power lost to back pressure. The result is a mighty 400 horsepower at 6600 rpm and 369 pound-feet of torque at 3800 rpm.

Then there's Jaguar's XJR, introduced for 1998. It too is powered by a V-8, but one that uses forced induction to achieve elevated power. By fitting an Eaton-built Roots-type blower that pumps 11.6 psi of boost into the 4.0-liter, four-cam, 32-valve corporate V-8, Jaguar engineers have raised the engine's power from 290 to 370 hp and boosted its torque from 290 to 387 lb-ft. And the peak torque is developed at 3600 rpm, 650 revs lower than in the naturally aspirated engine.

The third stormer is the Mercedes-Benz E55 AMG. It simply follows the old hot rodder's adage, "There is no substitute for cubic inches." AMG took the Mercedes 5.0-liter V-8, complete with its single overhead camshaft and three valves and two spark plugs per cylinder, and stroked it to displace 5439cc. To feed its bigger cylinders, the AMG engine gets hotter camshafts, a redesigned two-stage intake manifold with larger-diameter runners, and a new, dual-intake air cleaner and matching exhaust system. The result is 349 hp at 5500 rpm. This is the lowest power of this trio, but the AMG V-8's 391 lb-ft of torque is the highest in the group, and at 3000 rpm, this massive twist comes in



earlier than in either of the other cars.

Both the E55 and the XJR route their power through the identical five-speed, electronically controlled automatic gearbox built by Mercedes to handle its 6.0liter V-12. The transmission programming is different in each application. Jaguar uses its unique but aging J-gate shifter, while Mercedes employs its new "Touch Shift" gate to facilitate manual gearchanges. In contrast, the M5 comes only with a sixspeed manual transmission, adapted from the 540i sedan.

Otherwise, the cars are very closely matched. They all benefit from beefed-up variations of the sophisticated four-wheel independent suspensions of their host platforms, proctored by electronic stabilitycontrol systems. They are all shod with grippy 18-inch tires—245/40 front and 275/35 rear Michelin Pilot Sports on the M5 and E55, and 255/40 Pirelli P Zeros on the XJR.

Although the Jaguar, at 197.8 inches long, is about 10 inches longer than its rivals, it isn't roomier, making this dimensional variation functionally irrelevant. All three cars are also lavishly equipped with the most sybaritic conveniences, ranging from a power sunshade in the backlight of the Mercedes to the standard navigation system in the M5 to the umbrella that comes with every XJR. All three cars are even priced on top of one another, with their 70-or-so-grand base prices varying by no more than \$3072.

In short, this is a perfectly matched trio of four-door bullets. So well matched that we were forced to spend three glorious days wringing them out over the undulating roads of central Ohio, as well as at that scene of so many *Car and Driver* near-victories, Nelson Ledges Road Course near Warren.

In the end, we found distinct differences among these three magnificent machines. After most comparison tests, we simply turn our backs to the cars and go on our way. At this one, the keys to these machines had to be pried from our desperately clutching fingers. Among cars that can provide practical transportation on a daily basis, these three are the most satisfying in the world.



Jaguar XJR

Highs: Sleek and elegant styling, very responsive engine, traditionally luxurious interior appointments.

Lows: Tight rear seat, not quite enough suspension for really hard running.

The Verdict: A four-door hot rod with great style and dignity.

Third Place Jaguar XJR

From its fluted hood that echoes its headlamp contours to its crosshatch wire grille and its low and sleek profile, the Jaguar XJR is the looker of the lot. The visual delight continues inside, where sumptuous, fragrant Connolly leather is found alongside more square inches of polished wood trim than either Teutonic competitor offers.

Yet despite its traditionally elegant styling and the age of its platform, which debuted in 1986 as the XJ40,









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	0-60 mph	0-100 mph	0-150 mph	1/4-mile	street start, 5-60 mph	top gear, 30-50 mph	top gear, 50-70 mph	top speed, mph	braking, 70-0 mph, feet
BMW M5	4.8	11.3	30.0	13.3 @ 108 mph	5.0	8.2	7.0	156 (governed)	156
JAGUAR XJR	5.3	13.0	. 51.7	13.9 @ 103 mph	5.2	2.7	3.5	154	168
MERCEDES-BENZ E55 AMG	5.5	13.0	37.1	13.9 @ 103 mph	5.5	2.9	3.2	157 (governed)	161
TEST AVERAGE	5.2	12.4	39.6	13.7 @ 105 mph	5.2	4.6	4.6	156	162

		price, base/ as tested	engine	SAE net power/torque	transmission/ gear ratios:1/ maximum test speed, mph/ axle ratio:1	curb weight, pounds	weight distribution, % front/rear
tatistics	BMW M5	\$73,874/ \$73,874	DOHC 32-valve V-8, 302 cu in (4941cc), aluminum block and heads, Siemens MSS 5.2 engine-control system with port fuel injection	400 bhp @ 6600 rpm/ 369 lb-ft @ 3800 rpm	6-speed manual/ 4.23, 2.53, 1.67, 1.23, 1.00, 0.83/ 40, 70, 110, 146, 156, 156/ 2.81	3976	51.8/48.2
ital Sta	JAGUAR XJR	\$70,802/ \$70,802	supercharged and intercooled DOHC 32-valve V-8, 244 cu in (3996cc), aluminum block and heads, Bosch engine-control system with port fuel injection	370 bhp @ 6150 rpm/ 387 lb-ft @ 3600 rpm	5-speed automatic with lockup torque converter/ 3.59, 2.19, 1.41, 1.00, 0.83/ 39, 67, 104, 147, 154/ 3.06	4015	52.8/47.2
Λ	MERCEDES- BENZ E55 AMG	\$73,065/ \$73,065	SOHC 24-valve V-8, 332 cu in (5439cc), aluminum block and heads, Bosch ME 2.0 engine-control system with port fuel injection	349 bhp @ 5500 rpm/ 391 lb-ft @ 3000 rpm	5-speed automatic with lockup torque converter/ 3.59, 2.19, 1.41, 1.00, 0.83/ 42, 72, 111, 157, 157/ 2.82	3765	52.6/47.4

CAR and DRIVER



this XJR picks them up and puts them down with youthful muscle. It scooted from a standstill to 60 mph in 5.3 seconds and covered the quarter-mile in 13.9 seconds at 103 mph. Furthermore, it stopped from 70 mph in a short 168 feet and displayed 0.85 g of stick on our skidpad. In other words, this car is a 4015-pound rocket.

Thanks to the immediate response of the supercharged engine, thrust is available instantly and effortlessly at any speed, and there's a further bonus. "Love the whine made by the supercharger," wrote one editor. "It sounds like power!" Only at a solidly triple-digit pace, where the

	with 2 pas	ssengers	with 3 passenger			
Sale and the second	comfort	space	comfort	space		
BMW M5	5	4	4	3		
JAGUAR XJR	3	2	2	Join		
MERCEDES-BENZ E55 AMG	5	5	4	4		

XJ's bluff aerodynamic envelope fights a losing battle with the atmosphere, does the XJR suffer any straight-line disadvantage with the other cars.

However, we all perceived a certain baroque feel to the XJ's cockpit. The seat seems a bit high relative to the controls and

129	and the Islam	omorgongu		interior so	ound level.	fuel economy, mpg				
	roadholding, 300-foot skidpad, g	emergency- lane-change maneuver, mph	idle	full throttle	70-mph cruising	70-mph coasting	EPA city	EPA highway	C/D 800- mile trip	
	0.90	66.2	48	79	68	68	13	21	14	
	0.85	62.8	49	¦ 75	69	69	16	21	14	
	0.90	65.0	46	76	70	70	16	23	16	
1310	0.88	64.7	48	77	69	69	15	22	15	

Rear-Seat

roof. The mass of switches and buttons grouped in the center console is amorphous and difficult to distinguish. And the XJ's rear seat, whether occupied by two or three passengers, offers markedly less comfort and room than the two other cars'.

None of this will bother the driver after a few miles of acclimatization to the leftseat ergonomics. The steering is precise, responsive, and communicative. The suspension works beautifully up to a very brisk pace. Even the ride is remarkably absorbent, given the 40-series, 18-inch Pirelli near-racing tires.

But when you start pushing this R model as fast as it will go, the car loses some of its aplomb. Suddenly, the fluid compliance of the suspension is insufficient to prevent the body from pitching, rolling, and generally moving around more than we'd like. Although the XJR never comes close to stabbing its driver in the

back, driving smoothly becomes imperative when you're trying to make this car hustle.

It's also imperative to switch off the traction control because the system's frequent and lengthy interruptions preclude any chance of mimicking Jackie Stewart's fluid style. The anachronistic old J-gate shifter works reasonably well to select the gears manually under these

circumstances, but we would prefer a more modern, less attention-intensive manumatic approach.

Although it seems churlish to bring it up, we would also like a slightly heavier load of luxury and convenience features in the Jag. Its competitors provide more seat adjustments, head airbags, a center rear headrest, headlight washers, and several other minor features that the XJR lacks, although it is admittedly the least dear chariot of the bunch.

Altogether, its slight packaging deficiencies and its unhappiness with truly breakneck speeds offset the Jaguar's inarguable visual appeal. As one editor put it, "It seems remarkable to me that a car with this power and capability could finish third in a field of three."

di	dimensions, inches			fuel	interior volume, cubic feet			susp	0-891	190 191V.	
wheel- base	length	width	height	tank,	front	rear	trunk	front	rear	brakes, front/rear	tires
111.4	188.3	70.9	56.6	18.5	51	41	11	ind, strut located by 1 diagonal link and 1 lateral link, coil springs, anti- roll bar	ind, 1 control arm and 2 lateral links per side, coil springs, anti-roll bar	vented disc/ vented disc; anti-lock control	Michelin Pilot Sport; F: 245/40ZR-18; R: 275/35ZR-18
113.0	197.8	70.8	52.7	23.1	51	41	13	ind, unequal-length control arms, coil springs, anti-roll bar	ind, 1 control arm and 1 fixed-length half-shaft per side, coil springs, anti-roll bar	vented disc/ vented disc; anti-lock control	Pirelli P Zero Asimmetrico, 255/40ZR-18 95Y
111.5	189.4	70.8	56.7	21.1	51	44	15	ind, unequal-length control arms, coil springs, anti- roll bar	ind: 3 lateral links, 1 diagonal link, and 1 toe-control link per side; coil springs; anti-roll bar	vented disc/ vented disc; anti-lock control	Michelin Pilot Sport; F: 245/40ZR-18, R: 275/35ZR-18

Second Place Mercedes-Benz E55 AMG

Although this particular Mercedes E55 AMG was a bit off the pace compared with one we tested a year ago, it was hardly a slug. A tick behind the XJR to 60, it completed the short sprint in 5.5 seconds and then went on to equal the Jag's 13.9second quarter-mile run. From there, the E55 easily pulled away from the XJR, thanks to its outstanding 0.29 drag coefficient.

The E55 weighs about 200 pounds less than the two others, and it has the biggest engine with the strongest low-end torque and a most responsive five-speed automatic transmission. Add that up, and the result is a car that needs only a twitch of the driver's right foot to produce some instant squirt. Unfortunately, the Touch Shift mechanism was out of adjustment on this example. When you slapped the stick for a downshift, it would bounce back to the other side and perform an upshift to negate your desire. And in the manual mode, the programming of the Touch Shift also fails to hold gears as single-mindedly as does DaimlerChrysler's AutoStick. Perhaps some interdivisional technology transfer would be in order here.

This was one of several small glitches to which we all had to adapt when first slipping behind the E55's wheel. The steering initially seemed overly sensitive on-center. The brake pedal demands a substantial amount of pressure and travel before it begins to slow the car. And a car with such a responsive powertrain could stand to have more gradual throttle tip-in.

But after a couple of sessions in the car, these niggles were supplanted by praise for the taut chassis and immense capabilities turned out by AMG. "This thing has the grip of an insurance salesman," an editor wrote. Indeed it does, for the big Michelin tires don't begin to slide until you are cornering at 0.90 g. The sticky rubber also combines with the powerful brakes to halt the car from 70 mph in 161 feet.

This grip, combined with tightly controlled suspension motions and excellent

Mercedes-Benz E55 AMG

Highs: Great low-rpm punch, clever transmission logic, grippy chassis, great back seat.

Lows: Head-strong stability control system, slightly off-kilter control responses.

The Verdict: Easily the best automatic-transmissioned highperformance sedan you can buy. balance, makes for a car that's easy to drive quickly. The E55 shrugs off a throttle lift in an unexpectedly tight corner. It switches directions rapidly in high-speed esses. And you can readily ease on the power to rocket out of even tight corners. As a result, at Nelson Ledges the AMG car lapped 2.6 seconds quicker than the XJR.

Our only real complaint during flat-out running had to do with the Mercedes-Benz stability- and traction-control systems. Even when you turn them off, they won't stay off. If you apply the brakes during a hard corner, the systems assume that you are desperately fighting for control and engage one or more of the brake calipers with a mighty jolt. As a result, the seamless trail-braking that we were all taught at Bob Bondurant's driving school is impossible to execute smoothly. On public roads, this is not likely to be noticed by most drivers as the stability control doesn't step in at all until you are well and truly pressing hard. At a more relaxed pace, the Benz is an extremely comfortable sedan. We all found great comfort in the highly adjustable seat and driving position. The layout of the controls is excellent. And the E55 is extremely well equipped and finished beautifully with fine materials, although our example was a bit dark inside. "Another Teutonic coal bin," noted an editor.

Perhaps, but it is also the limousine of the group, with the roomiest rear seat and the largest trunk. Were our search for such a luxury performance car constrained by the need to frequently carry adults in the rear and cope with long stretches of bumper-to-bumper traffic, the E55 would be our first choice.







First Place BMW M5

How do you characterize a roomy fourdoor, leather-lined luxury capsule that can keep up with a C5 Corvette? All the way to 150 mph! With a quarter-mile performance of 13.3 seconds at 108 mph, let's just call it the fastest production sedan on the planet.

But the new M5 is more than a tireshredding drag racer (the traction control occasionally cuts in during a hard threefour shift over bumpy pavement—at 110 mph!). It stopped from 70 mph in the shortest span (156 feet), it performed the emergency-lane-change maneuver successfully at the highest speed (66.2 mph), and it tied for best cornering grip at 0.90 g. The M5 is simply a remarkably wellrounded performance machine.

The engine makes its presence known the first time you toe into the throttle. Not only is response immediate and strong, but it also takes on an alto scream as the tachometer needle curls past 5000 revs. "Right next to the Ferrari note," said one driver. Yet at a more sedate pace, the



engine is almost as silent as it is in any 5series sedan.

The M5 is remarkably civilized in other ways as well. Despite running on extreme high-performance tires, inflated to 44 psi front and 49 psi rear, the M5 feels absorbent over pockmarked Michigan and Ohio roads. The bumps are heard more than they're felt, and they're only heard because the M5's cabin is otherwise so hushed. Wind noise is low, the engine is muted when you're not pressing it, and on clear pavement, the car drives with an uncanny, otherworldly smoothness.

One of the joys of this car is the sixspeed manual gearbox, which we found ourselves shifting for the sheer joy of it. Although based on the optional unit in the 540i, the beefed-up M5 version shifts with less effort but greater precision. We quickly executed perfectly smooth shifts without conscious effort. The gearbox also employs a relatively short ratio in top gear for plenty of acceleration without downshifting, if you're feeling lazy.

Although the M5's steering feels slightly vague at first, we all quickly grew fond of it. This car became the favorite of

BMW M5

Highs: An engine to die for, very satisfying transmission, immensely capable chassis, excellent ride, luxurious interior.

Lows: Overly sensitive traction control, the occasional low-rent interior touch.

The Verdict: The most desirable sedan in the world. How sweet it is.

the three drivers when the going got fast and challenging. The car's immense grip, viceless handling, and very precise controls assisted the M5 to the quickest lap times on the track, a second and a half swifter than the E55, without breaking a sweat.

Of course, such work requires switching off the DSC, which is BMWspeak for traction-and-stability control. This system engages inordinately early and could use a sport mode, as Ferrari employs, to reduce its sensitivity when desired. The M5's sport button only increases the effort of the power-steering system and quickens the electronic linkage between your right foot and the V-8.

As a people mover, the M5 falls in between the two other speedy sedans with a very comfortable rear seat, although it does not have the leg-crossing space that the Mercedes offers.

Creature comforts are in abundance, from a standard navigation system to autoleveling Xenon headlights. Interior finish is also outstanding. Its beautifully stitched, soft leather upholstery and a headliner tailored from Alcantara add up to a very rich-feeling, high-end ambiance.

We're not, however, totally sold on the metallic trim that BMW has fitted in place of wood on the dashboard. It has a vaguely plasticky look to it, as does the shift knob that seems like a plastic imitation of titanium. "Metalloid" is the term we quickly applied to it.

That said, our visceral craving for this car is not curtailed even slightly by that nit. For people who love cars, the BMW M5 is quite simply the most desirable sedan in the world at any price. What more can we say?

	engine	trans- mission	brakes	handling	ride	driver comfort	ergo- nomics	features and amenities	fit and finish	value	styling	fun to drive	OVERALI
BMW M5	10	10	10	10	9	10	9	10	9	9	9	10	97
JAGUAR XJR	9	7	9	8	9	8	8	7	9	8	9	8	92
MERCEDES- BENZ E55 AMG	9	9	9	9	9	10	9	9	10	9	8	9	95

The overall rating is not the total of those numbers. Rather, it is an independent judgment (on a 1-to-100 scale) that includes other factors-even personal preferences-not easily categorized.