

"It looks like a show car, but it's really a killer." —Tom Nelson

t's the world's cleanest third-gen Camaro, and it has 1,700-plus

As outstanding as that statement is on its own, this car's engine made it onto our cover because it also exemplifies this month's theme of new tech, new ideas, and most of all, new power. The Nelson Racing Engines (NRE) 427ci, twin-turbo Dart/Brodix smallblock is crammed with billet-born innovation, including an all-new NRE three-piece intake manifold that features dual integral fuel rails with twin banks of injectors and a bolt-in fuel regulator setup that draws commands from the internally drilled boost-reference ports. The throttle body and inlet pipe are also part of the billet goodness. So, yeah, it's \$8,000 worth of intake manifold, but it includes a lot of components you'd otherwise have to buy, plus it simplifies a lot of other plumbing and installation problems that Tom Nelson sees all the time with his twin-turbo crate engines.

Likewise, notice the turbos themselves on this gleamer: Yes, they are mirror images of each other. Most twin installations end up asymmetrical thanks to the old one-way-only snail on a typical turbo, but these new NRE billet housings with matching wheels inside break new ground for stylish and simple installation. They're available in 66, 72, 74, and 76mm variations; this engine uses 72s with 44mm wastegates and 50mm blowoffs. Tom also now offers billet header collectors

But it's totally functional. This small-block may be one of America's and turbo junctions. It's ludicrous. shiniest objects, but it also makes an absurd 1,700-plus horsepower and a like amount of torque when you ramrod two and a half atmospheres through the Ron Davis air-to-air intercooler—as in 38 psi boost. The punishment is swallowed by a Dart Iron Eagle tall-deck block, a Callies Magnum crank, Oliver billet rods, and JE extremeduty slugs. It adds up to 427 ci with 4.125-inch bores and a 4.00-inch stroke. A Billet Specialties pan and Titan gerotor oil pump keep the

The pressure side includes that NRE intake along with Brodix 11x heads, which are 23-degree units with a spread-port exhaust pattern and stuffed with Inconel exhaust valves. The cam is a solid roller with 55mm roller bearings, 230 degrees of duration at 0.050, and 0.550inch lift on both lobes, which are set at a 116-degree lobe-separation



> In this under-construction shot you can see the jig setup that's use to hang the turbos and to aid in the fabrication of all the bracketry and to hang the turbos. The entire nose of the car was also reworked accept the Ron Davis intercooler and radiator as well as the air dum

> Here are the components of the trick NRE billet intake manifold, available in satin, polished, or black for smalland big-block Chevys in standard and tall-deck versions. Note the use of O-ring grooves, eliminating any gaskets. All the hardware is hidden upon installation. Got eight grand?



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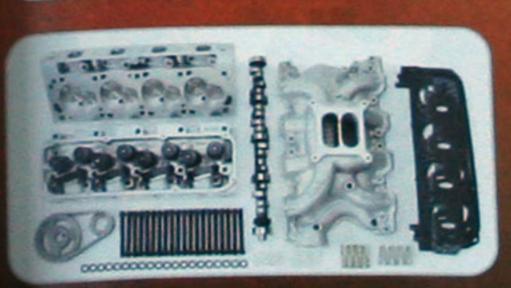
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angle. Valvetrain beef includes Crower lifters, Smith Bros. pushrods,

The engine management is an Electromotive tec3 managing the and T&D shaft rockers. dual Aeromotive in-tank pumps and the twin sets of injectors. Another new product involved is the Nelson billet harmonic damper that has the 60-tooth crank trigger cut right into it, which is a pretty

cool problem solver.

And, oh yeah, there's a car attached to this monster. Who does all this to a third-gen Camaro? Randy Davis out of Wisconsin, that's who. He had bought a 377ci twin-turbo Nelson Racing Engines motor for the car, and after reading about the newer Nelson Supercars part of the business, he eventually sent the entire car out to California for a beef-and-beauty makeover. The rollcage work was handled back home, then the '84 was treated to a trick back-half job and a bunch of sheetmetal work by Mark Bohlen at Bent Custom & Performance in Chatsworth, California. You read about Mark here in HOT ROD when he did all the custom hard-line plumbing on our F-Bomb Camaro, and he also did the tubing on this car.

Scott Carpenter of Scott's Customs showcased the engine in the handformed and fully painted sheetmetal engine bay that required the brake and steering hydroboost setup to be mounted at a 90-degree angle under the dash. As you can see, there's not a spec of wiring or

Back at Nelson Supercars, the Camaro was assembled with a Denugliness in the engine compartment itself. ny's driveshaft linking the Finish Line Transmissions' beefy 4L85E auto/overdrive (and TCI controller) to the Moser 9-inch rearend with 35-spline axles, 3.23 gears, and a Detroit Locker. The suspension uses an AJE tubular front crossmember with a power rack-and-pinion. The springs and sway bars are Hotchkis and the control arms are Spohn, while the rear carries a custom three-link. The brakes are all

Randy wanted his car to look virtually stock on the outside, and it Baer discs. does... once you get past the massive tires on Fikse wheels. That's BFG rubber in 275/40ZR18 up front and 345/35R18 drag radials on the back. The rest of the car, from T-tops to deck wing, was bodyworked and painted pure white with orange stripes by Scott. The interior, too, looks stock, right down to the functional OE dash cluster and vintage orange "Camaro Camaro Camaro" cloth seats.

"The general consensus on third gens is guys think they're a dweet car. This should change that."

And that's the story of the world's cleanest third-gen. Sano!





> One of the only parts of the car not handled by Nelson or Bentists > One of the only part of bent's work in progress on the factory-sold mini-tub job that was later concealed by stock-appearing panels the were vacuum-formed in an extra width. HRM



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