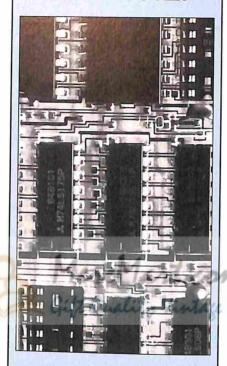
# MOTOR NOUNCE NOUNCE 1990

#### TECHNICAL

- **D** Trouble Shooter Whether tey're used on turbocharged or apercharged engines, interpolers help bring a breath of esh air to the intake charge. ere's how they work and why.
- **1 Trade Secrets** Our hero assyfoots around a couple of real pol cats and a pair of bad cats to alve their '86 Cougar's hesitation roblem. It could been a regular at-astrophe.
- **8** Eye On Electronics You can se a computer for more than just toring data or managing your hop. With either of these two nique programs, you can use our PC or laptop computer for ngine diagnostic work.
- n 3.0 Chrysler V6s, Ford wheel im ring dings, Quad 4 rattle and nock, cranky-starting Toyotas and ther unlikely fixes, straight from 1e manufacturers.
- Poreign Service Diagnosing litsubishi and captive Chrysler nports with Jet Valve engines can tricky. Jet Valve problems often imic more common ailments. nese tips should demystify the job.



#### ON THE COVER



**22** Shop Management Software Tired of running your shop out of your coverall pockets? Computer programs can banish all those little bits of paper, get you organized, avoid waste and add to profits. See related stories on pages 8 and 18. Cover photo of a computer memory board by Jim Richards.

**29 Diagnosing The '91s** Our annual look at on-board diagnostics for new cars shows that Detroit has gone further than ever before with computer-controlled engines and transmissions. This year's hot setup is reprogrammable PROMs.

### REPORTS

**8** Editor's Report Can electronic data storage replace yards of heavy repair manuals? It can, if you're willing to pay the price and the whole shop is willing to cooperate by working with a PC.

**35** Newsbreak High-tech Caddys on the horizon, a reskinned Taurus/Sable for '92, Honda leaves Motown holding the (air) bag, active suspension arrives...at a cost, plus other automotive tidbits from our Detroit bureau.

**50** Washington Hotline A new insurance industry report shows that downsized cars are not as safe in a crash as the "dinosaurs" they replaced. Also: The latest EPA emissions and NHTSA safety-related recalls.

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The Magazine For The Responsible Automotive Technician

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