FEATURES

- 24 Advances In Diesel Engine Management, Pt.2

 A look at the electronic control systems by Julian Edgar
- 30 Review: ELAB-080 Electronics Lab

 Five general-purpose instruments in one low-cost package by Peter Smith

PROJECTS TO BUILD

- 6 Lead-Acid Battery Zapper & Condition Checker
 Improved design can check battery condition and has output sockets so that
 you can monitor the zapping pulses using a multimeter by Jim Rowe
- 44 Universal High-Energy LED Lighting System, Pt.2
 Second article has all the construction details. And we show you how to make a very effective Luxeon-powered spotlight for bicycles by John Clarke
- 62 A Passive Direct Injection Box For Musicians

 Don't let hum & noise spoil your performance. This DI box performs as well as a powered unit but doesn't need batteries by John Clarke
- 72 Remote Mains Relay Box
 Switch mains voltages safely with this easy-to-build unit by Bill de Rose &
 Ross Tester
- 78 Vehicle Voltage Monitor

 Want to monitor the battery voltage, the airflow meter signal or the oxygen sensor signal in your car? Here's the answer by John Clarke
- 88 Picaxe Goes Wireless, Pt.2

 Networking, logging data, plus light & temperature sensors by Clive Seager
- 100 Boost Your XBee's Range Using Simple Antennas Simple "roll your own" antennas for the XBee by Stan Swan

SPECIAL COLUMNS

- 32 Circuit Notebook
 - (1) Automatic Exhaust Fan; (2) Rotary Encoder For PIC Projects; (3) Tank To Cistern Pump; (4) Picaxe-Powered Pocket Timer; (5) LED Torch Bulbs
- 40 Serviceman's Log
 The one-day technician by the TV Serviceman
- 68 Salvage It!
 Improving the sound of salvaged loudspeaker systems by Julian Edgar
- 94 Vintage Radio
 The rare Edison R6 console receiver by Rodney Champness