# Features

# **10 The Vectrix Electric Motor Scooter**

The Vectrix Electric Motor Scooter is the first production battery-powered road vehicle to be sold in Australia. We test drove it for a week – by Ross Tester

# **18 The Enersonic Power Saver**

Here's another power saving gadget that won't save you a cent on your electricity bill – by Leo Simpson

#### 29 Prototype PC Boards

Where do you go for high-quality prototype PC boards and for small production runs? IMP Printed Circuits Pty Ltd, that's where – by Ross Tester



#### 32 Replacement CDI Module For Small Petrol Motors

Don't pay hundreds of dollars for a replacement CDI module for your ride-on mower, motorbike, outboard or other small petrol motor. This one can be built for less than \$50 – by John Clarke

# 40 High-Accuracy Digital LC Meter

It's based on an ingenious measurement technique and measures inductance from 10nH to over 70mH and capacitance from 0.1pF to over 800nF. It's also very easy to build – by Jim Rowe

# 62 Low-Cost dsPIC/PIC Programmer

Easy-to-build unit can program all dsPIC30F series microcontrollers in the DIP package, along with most PIC microcontrollers – by Mauro Grassi

# 76 High-Current Adjustable Voltage Regulator

Want to operate a CD, DVD or MP3 player from the cigarette lighter socket in your car? This 6-step adjustable regulator will step the voltage down to what's needed – by Mauro Grassi

# Special Columns

#### 57 Serviceman's Log

Who mangled Duck's USB ports? - by the TV Serviceman

#### 72 Circuit Notebook

(1) Frequency Indicator For Generating Equipment; (2) Constant-Current LED Navigation Lights; (3) Optical Smoke Detector; (4) Biased Yes Or No Circuit; (5) 24V & 6V Versions For The Battery Charge Controller

# 86 Vintage Radio

The versatile multi-band Ferris 174 portable - by Rodney Champness