

Features

12 Mai's Electric Vehicle Conversion

At last, a fair-dinkum electric vehicle conversion using a 3-phase induction motor. And it's fully road-registered – by Leo Simpson

58 Digital Radio Is Coming, Pt.4

Final article in the series describes the signal formats, compares DAB+ and DRM and looks at suitable antennas for DAB+ reception – by Alan Hughes

84 VoiceMe: A Voice-Activated Remote Control

Don't reach for the remote; just speak and it will obey. It can control up to 10 functions on your TV, DVD player or whatever – by Rick Walters

91 Tech Support: The View From The Other Side

How the major companies handle enquiries – by Barrie Smith

Projects To Build

20 High-Current, High-Voltage Battery Capacity Meter

Microcontroller-based device monitors the charge and discharge of lead-acid, Nicad & NiMH batteries at voltages from 9-60V and currents up to 80A. It can even log the data for later download to a PC – by Mauro Grassi

36 GPS Driver Module For The 6-Digit Clock, Pt.2

Easy-to-build unit uses the GlobalSat EM-408 GPS module and drives the 6-Digit Display Module to form a complete, dead-accurate clock – by Jim Rowe

62 Build A Beam-Break Flash Trigger

It mates with the Time Delay Photoflash Trigger described last month and triggers it when an object breaks a beam of infrared light – by Jim Rowe

68 Hand-Held Digital Audio Oscillator

Compact unit features a blue backlit LCD and generates sine, square, triangle & sawtooth waveforms from 10Hz-30kHz – by Darian Lovett & Mauro Grassi

76 PICAXE Humidity Measuring Using The HopeRF HH10D

HopeRF's tiny HH10D module is a well-priced and calibrated humidity sensor, that's easy to interface to a PICAXE micro – by Stan Swan

Special Columns

30 Circuit Notebook

(1) One-In-Five Timer; (2) External USB Supply For iPod Touch; (3) Remote Control Extender For Foxtel; (4) Electronic Mousetrap; (5) 4-20mA Current Loop Tester; (6) Tester For Rotary Encoders; (7) Floating Current Source; (8) Modified Vehicle Voltage Monitor; (9) 20-LED Chaser Uses SCR Flipflop

44 Serviceman's Log

Dumbed down but stimulated by Rudd-bucks – by the Serviceman

82 Salvage It

Gather up those discarded monitors before it's too late

86 Vintage Radio

The AWA 693P 3-Band 8-Transistor Portable – by Rodney Champness