

# Features

## 10 Taking Glass Beyond The Window Pane

*Glass is much more than something you look through or drink from. Thanks to computer technology, architects are now using it to make a real statement – by Kevin Pouiter.*

## 58 The Spark That Changed The World

*Old radios are worth restoring but there can be dangers for the unwary. The Historical Radio Society Of Australia (HRSA) has now been operating for 25 years – by Kevin Poulter*

# Projects To Build

## 16 Programmable Ignition System For Cars; Pt.1

*Want to program your own ignition timing maps for an older car or for the racetrack? Now you can with our latest programmable car ignition system – by John Clarke*

## 34 Remote Volume Control & Preamplifier Module; Pt.2

*Second article completes the construction, describes the set-up procedure and shows how the unit is used – by Peter Smith*

## 64 GPS-Based Frequency Reference; Pt.1

*It's based on a Garmin GPS receiver module and uses the GPS satellites to derive very accurate 1MHz & 10MHz reference frequencies for calibrating frequency meters, signal generators & radio receivers – by Jim Rowe*

## 74 Simple Ammeter & Voltmeter

*Want to make simultaneous voltage and current measurements, up to 20V and 20A? You can with this easy-to-build unit – by Ross Tester*

# Special Columns

## 40 Circuit Notebook

*(1) 12/24V Auxiliary Power System; (2) Portable Headphone Amplifier; (3) Preamplifier For Moving Coil Magnetic Cartridges; (4) Odd/Even Day Watering Solution; (5) Fun With Flashing LEDs; (6) LCD Clock Battery Upgrade*

## 82 Serviceman's Log

*Variations of the original mousetrap – by the TV Serviceman*

## 88 Vintage Radio

*The EILCO 6104 lunch-box RFDS radio – by Rodney Champness*