

# Features

## 10 Honda's 3.5-Litre V6 With Cylinder Deactivation

*Honda's new V6 engine uses cylinder deactivation and can run on three, four or six cylinders, according to demand. Here's how it works – by Leo Simpson*

## 14 Dual Booting With Two Hard Disk Drives

*Want to dual-boot Windows & Linux but with each on a separate hard disk drive? Want to keep both bootloaders intact as well? Here's how to do it the safe and easy way – by Greg Swain*

## 19 Review: Navman Platinum S300t GPS Unit

*The Navman Platinum S300t is the state-of-the-art in GPS with an amazing range of features. Here's how it stacks up – by Ross Tester*

# Projects To Build

## 26 USB-Sensing Mains Power Switch

*It monitors a USB port on your PC and automatically switches peripherals on or off as required. It's triggered by data activity on the USB port or you can trigger it by monitoring for +5V on the port – by Jim Rowe & Mauro Grassi*

## 38 Remote Mains Relay Mk.2

*Switch mains voltages safely with this easy-to-build unit. It can be triggered by a remote switch or by relay contacts (eg, in a PIR sensor) – by Jim Rowe*

## 54 AM Broadcast Band Portable Loop Antenna

*Looking for a way to improve your long-distance AM radio reception? Here's a tunable loop antenna that will pluck signals out of thin air! – by Stan Swan*

## 62 Multi-Purpose Car Scrolling Display, Pt.2

*All the construction details are presented this month. We also describe how to install the necessary USB software driver – by Mauro Grassi*

## 80 433MHz UHF Remote Switch

*Pre-built UHF transmitter & receiver modules make this wireless remote control easy to build. Its range is 200m or more – by John Clarke*

# Special Columns

## 40 Circuit Notebook

*(1) Fuel Economiser Uses Strain Gauge On Accelerator ; (2) Phone Ringer With Remote Control; (3) Solar-Powered Backyard Lighting System; (4) Crystal-Controlled Shortwave Converter; (5) Switchless Intercom; (6) Model Railway Track Cleaner*

## 58 Serviceman's Log

*Headphone Problems In An LCD TV – by the TV Serviceman*

## 74 Vintage Radio

*The American Philco 52-545 AC/DC Receiver – by Rodney Champness*