F	res (
12	Playing With The AirNav RadarBox Want to track commercial aircraft anywhere in the world? The incredible AirNav RadarBox lets you do it from your armchair – by Ross Tester
17	Review: Jaycar's Sun-In-A-Box Solar Lighting Kit Looking for a sub-\$200 solar lighting kit for the shed, boat or campsite? This kit comes complete with a high-efficiency 10W CIS solar panel – by Stan Swan
24	50 Years Of The Integrated Circuit It's hard to imagine how we ever got along without ICs but they've only been around for 50 years – by Ross Tester
27	How Oxygen Sensors Work The oxygen sensor is a critical component in your car's engine management system. Here's a quick primer on how they work – by John Clarke
78	Robot-Operated Clarinet Clever Australian robot purses lips and plays the clarinet
Pr	ojects To Build
30	12V Speed Controller/Lamp Dimmer Use it as a speed controller for 12V motors rated up to 5A or as a dimmer for 21V halogen or standard incandescent lamps (up to 50W) – by Leo Simpson
35	USB Clock With LCD Readout, Pt.2 Second article details the software installation, describes how to synchronise to an internet time server and deals with firewall issues – by Mauro Grassi
58	Wideband Air-Fuel Mixture Display Unit Combine it with a wideband oxygen sensor and controller and accurately monitor air-fuel ratios as you drive – by John Clarke
71	IrDA Interface Board For The DSP Musicolour Add a wireless infrared port to the DSP Musicolour or to virtually any microcontroller project – by Mauro Grassi
Sp	ecial Columns
40	Serviceman's Log Yes Serviceman: The Moral Dilemma – by the TV Serviceman
53	Circuit Notebook (1) Phone Mute System For PA Sound Systems; (2) Converting A Linear Pot To A Log Curve; (3) 12V-High Voltage Inverter; (4) Exerciser For Manual

Pot To A Log Curve; (3) 12V-High Voltage Inverter; (4) Exerciser For Manual Dexterity; (5) Speed Control For Bosch Cordless Screwdriver; (6) Vandal-Proof Bell Button For Entry Gate

82 Vintage Radio

Those Mysterious Antenna Coils & Loop Antennas – by Rodney Champness