

BARC MEMBERS TEST EQUIPMENT LIBRARY
Donated to BARC by Don Menzies

Test Equipment

How It's Used

Dual Chan. Oscilloscope
[Rigol DS1052E]
[SN DS1ET145002697]

signal tracing in radios, TVs
setting bias adjustments for oscillators & amplifiers
detecting power supply defects, hum & distortion
determining oscillator frequency, waveform
measuring noise, linearity of amplifiers
measuring phase, frequency response of filters
measuring common mode rejection
measuring clock frequency, duty cycle & jitter
measuring timing in clocked logic blocks
measuring transition time (input/output) of logic chips
measuring effectiveness of noise suppression

Function/Arbitrary
Waveform Generator
[Rigol DG1022]
[SN DG1D153101480]

signal injection in radios, TVs
checking integrating and differentiating circuits
measuring the performance of filters
time domain reflectometry

SWR Meter
[Daiwa CN-801]
[SN 1410]

measuring forward power & reflected power (Avg. & PEP)
measuring magnitude of reactance

4 Port Network
(Antenna) Analyzer
[Array Solutions 4170D]
[SN 4130]

measuring real and imaginary components of impedance
optimizing antennas for forward gain, F/B ratio, sidelobe suppression,
SWR bandwidth, common mode current suppression
documenting antenna specifications via computer
measuring coax (& ladder line, window line) velocity factor,
complex Z, & loss

Isolation Transformer
[Hammond 171C]

used for current limiting while troubleshooting a "hot chassis" in AC/DC
type of radio/TV

Variac
[No Co. Name]
[Model SC-3M}

used to change (lower) input 60 Hz. AC voltage; for use when old
electrolytic capacitors are being restored after a long time unused.

Code Practice Oscillator
[MFJ Econo Keyer II]

used with Vibroplex two-paddle keyer for CW practice

2X Heat Guns

used to apply heatshrink tubing to wires/connectors
used to troubleshoot intermittent/failing electronic components

50 ohm Dummy Load
[Vectronics DL-300M]

used to terminate coax with a non-radiating antenna simulator