January, 1972

WES INDUSTRIES

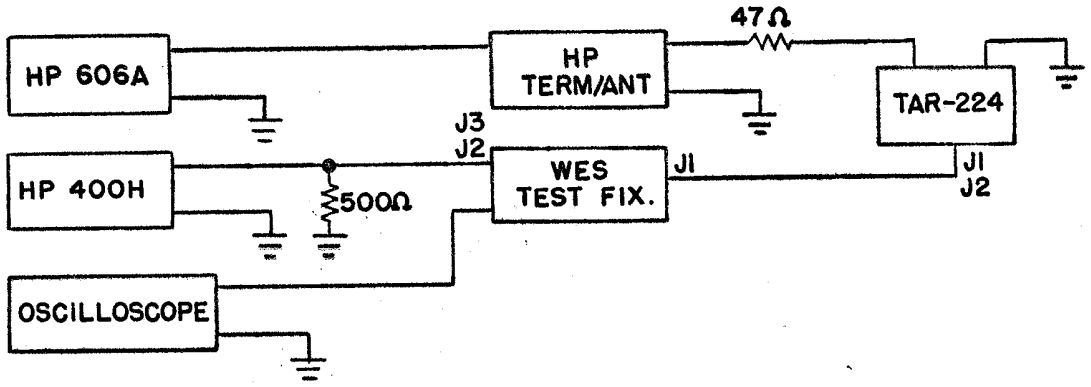
STANDARD TEST SET-UP FOR TAR-224

1.0 RECEIVER TESTS

1.1 TEST EQUIPMENT

H.P. 606A or equivalent
H.P. 400H or equivalent
H.P. Terminations/Attenuator for H.P. 606A
WES Test Fixture
Oscilloscope (Tektronics 535 or equivalent)
47Ω resistor, 500Ω resistor

1.2 TEST EQUIPMENT CONNECTIONS



1.3 TEST EQUIPMENT SETTINGS AND READINGS

1.3.1 HP term./att. set for 20dB attenuation and 5Ω output impedance.

1.3.2 HP 606A step attenuator set for -70 dB.
For 0-10 uV output, to compensate for 20 dB external pad.

1.3.3 HP 606A output measured in uV as indicated on integral meter. This reading is the reading given for CW and AM sensitivity measurements.

1.3.4 HP 400H set for ODB scale.

1.3.5 AM S+N/N ratios measured by setting receiver volume control to give an output reading of 0 dB with a 7 uV, 30% modulated signal from the HP 606A. S+N/N in dB measured as difference in HP 400H reading as modulation is removed.

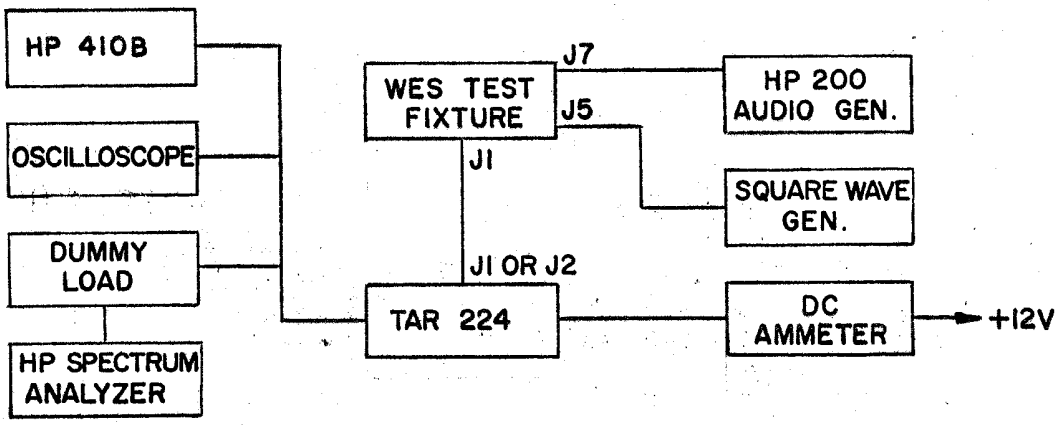
1.3.6 CW S+N/N ratios measured by setting BFO control for zero beat with unmodulated 2 uV signal. Volume control is adjusted for -10 dB reading on HP 400H. S+N/N ratio in dB is measured as change in HP 400H reading as BFO control is moved from zero beat to the position which gives maximum audio output level.

2.0 TRANSMITTER TESTS

2.1 TEST EQUIPMENT

H.P. 410 RF voltmeter or equivalent
Wideband oscilloscope (Tektronics 535 or equivalent)
50 Ω Dummy load (25W minimum)
H.P. 200 audio generator or equivalent
Square wave generator or equivalent
WES test fixture
1800 pF capacitor
DC ammeter, 0-10A

2.2 TEST EQUIPMENT CONNECTIONS



2.3 DIAGRAM FOR WES TEST FIXTURE