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*[Signature]*

WES INDUSTRIES

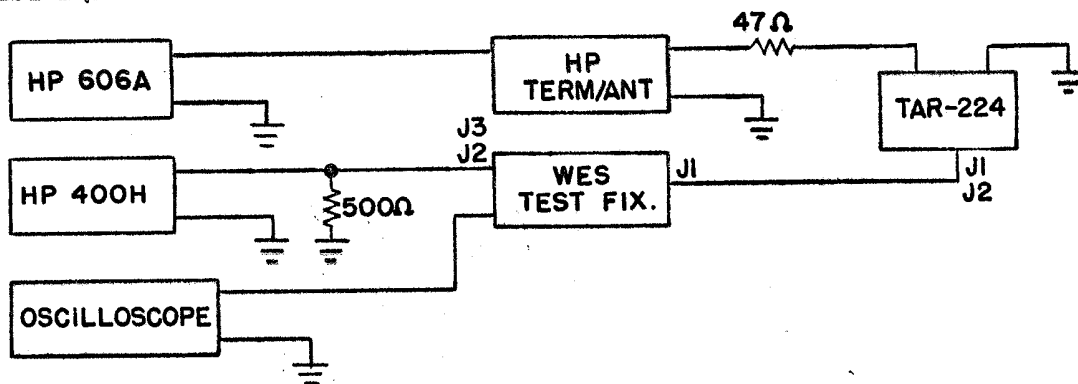
STANDARD TEST SET-UP FOR TAR-224

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)  
47 $\Omega$  resistor, 500 $\Omega$  resistor

1.2 TEST EQUIPMENT CONNECTIONS



1.3 TEST EQUIPMENT SETTINGS AND READINGS

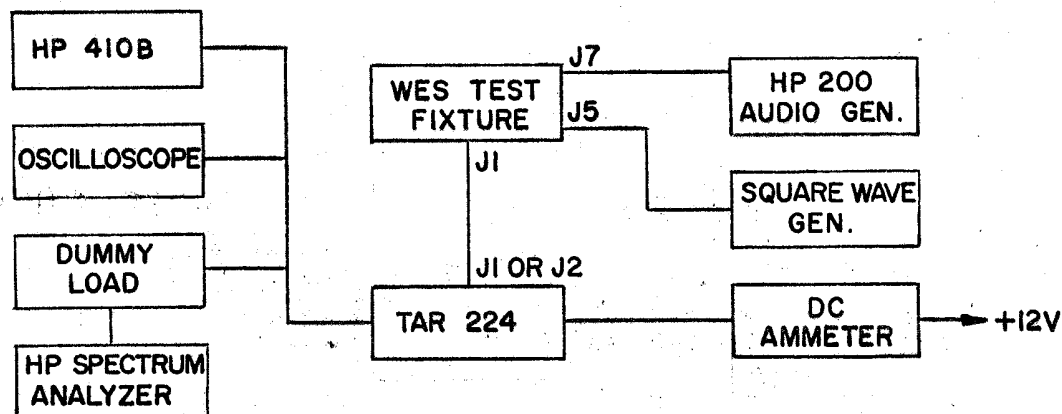
- 1.3.1 HP term./att. set for 20dB attenuation and 5 $\Omega$  output impedance.
- 1.3.2 HP 606A step attenuator set for -70 dB.  
For 0-10 uV output, to compensate for 20 dB external pad.
- 1.3.3 HP 606A output measured in uV as indicated on integral meter. This reading is the reading given for CW and 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  $\Omega$  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

