

ANTENNA MIXING NETWORKS

Models: AMN-Lo, AMN-Hi

These networks are designed for use with wide band amplifiers, Models B-26 (54 to 88 mc) and B-713 (174-216 mc), in Jerrold J-R television distribution systems.

AMN-Lo: For low TV channels (2-6).

A low loss (less than 0.5 db) antenna mixing network for combining up to three 72 ohm cut-to-channel antennas to provide one 72 ohm output to the B-26 strip.

AMN-Hi: For high TV channels (7-13).

A low loss (less than 1.0 db) antenna mixing network for combining up to four 72 ohm cut-to-channel antennas to provide one 72 ohm output to the B-713 strip.

Installation:

1. Mounting: Each AMN mounts piggy-back on its associated amplifier:

- Remove the 3rd screw from the input end of both sides of the strip cover (for PB-213 models it is first necessary to remove one strip from the chassis).
- Place AMN unit over associated strip and fasten with original screws.

2. Alignment: Two trimmer adjustment "PR1" and "SEC" are available for tuning each ANT input. The coupling adjustment ("COUP") is factory aligned and fixed for proper bandwidth and should not be tampered with.

Using a television sweep generator and oscilloscope, the PR1 and SEC trimmers of each ANT input may be visually aligned to obtain a flat response over the desired channel (Figure 1).

AMN units are shipped factory aligned to the channels circled below:

AMN-Lo	(2)	3,	4	-	3,	(4)	5	-	4,	(5)	6
AMN-Hi	(7)	8	-	(9)	10	-	(11)	12,	-	12,	(13)

An unused AMN position may be tuned as an adjacent channel sound trap observing the response on the scope as shown in Figure 2.

Over

Figure 1: Alignment of AMN Units

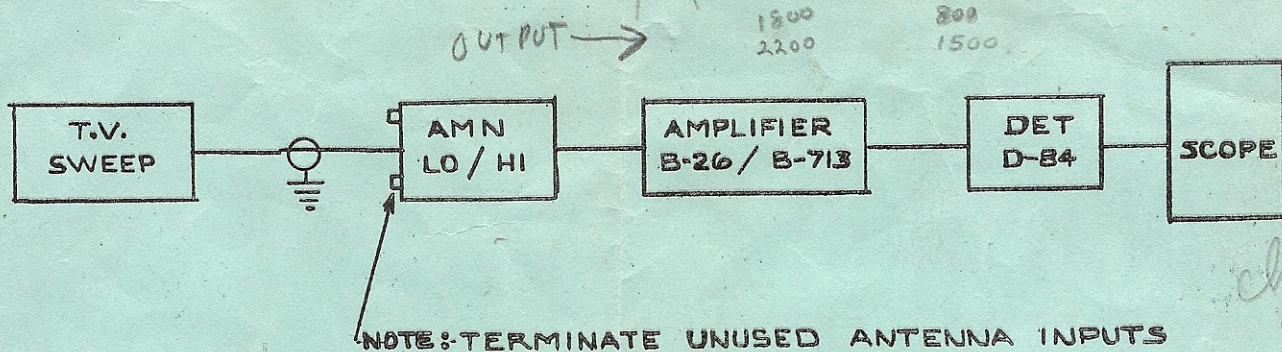
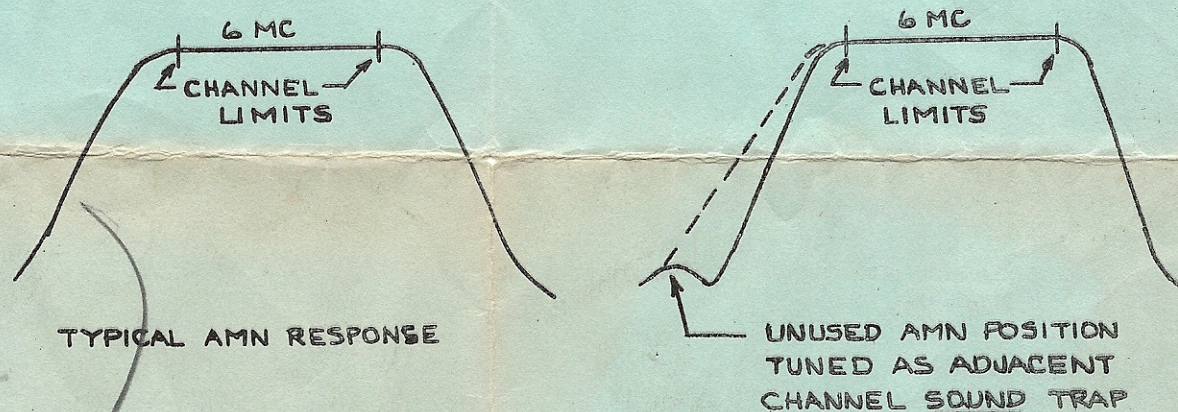


Figure 2:



Using Field Strength Meter to Tune AMN

In the absence of the specified sweep equipment, a Field Strength Meter that measures both Pic and Snd carriers (Jerrold Model 704A) can be employed. Measure the relative amplitude of the carriers directly off the antenna. Connect to the AMN and peak "PR1" for Pic and "SEC" adjustment for SND, retouching both trimmers to maintain relative amplitude of carriers as measured on 704A.

A television receiver with a test pattern should be observed to check for improvement in picture. It is very important to tune unused trimmers away from desired channels where they may act as traps, causing smear in picture or loss of sound.

3 180 Phil House (300) end

10 140

13 2000 - (3000) end

9 = 100
2
20 = 40

High Set = Sound

13 7000 - 617

3 10 = 180 - 15 - 20

3 300 = 150 - Vary

Runch House

6-3-58