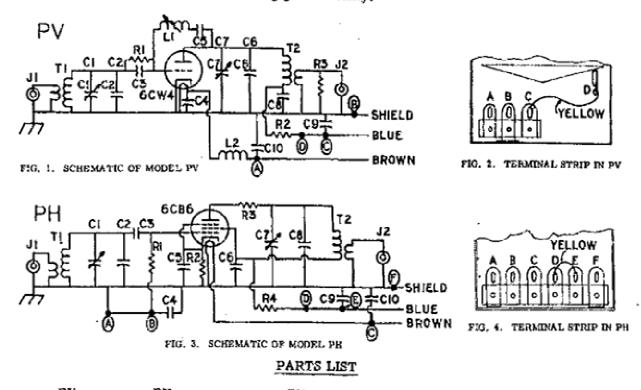
INCREASING THE GAIN OF MODEL PY

Resistor R3 is a 47 ohm resistor that has been added in the PV Preamplifier to insure complete stability of the unit. The gain of the Preamplifier with this 47 ohm resistor is approximately 20 db. Without it, the gain can go up as much as another 10 db. However, in some installations, the absence of the 47 ohm resistor will cause serious instability and/or bandwidth problems. This is due to the fact that the antenna coll in any converter is tightly coupled and the addition of another tightly coupled tuned circuit may produce extreme over-coupling, which may result in oscillation, low gain, poor bandwidth, poor image rejection, etc.

If the user is technically inclined, he may experiment by gradually increasing the value of R3 to a point where he gets optimum gain while maintaining good stability.



C1 C2 C3 C4 C5	1-8 mmfd. Depends on fr 100 mmfd. ,001 mfd. 100 mmfd.	100 mmfd. .005 mfd. .005 mfd.	C8 C9 C10	. 00% mfd. . 005 mfd. . 005 mfd. Neutralizing	PH Same as C2 .005 mfd, .005 mfd,	R1 R2 R3 R4	PV 47K 5.6K 47	PH 470K 100 10 1000
C6 C7	Same as C2 1-8 mmfd.	.005 mfd. 8-50 mmfd.	ĽŽ	Fil. Choke	***	T1 T2	Antenna transformer Output transformer	