MODEL AGS

THE NATIONAL COMPANY

The intermediate frequency am-Intermediate plifier is tuned to 500 kc. by means Frequency of the condenser adjusting screws Amplifier located at the top of the i.f trans-

former cans. A signal generator should be coupled to the first detector grid circuit, and an approximate alignment effected with the volume control switch at "MVC" and the beat-frequency switch at "voice." Final alignment is made with the selector switch in the "AVC" position with a very low input.

The selector switch is then returned to the MVC position and the compensating condenser adjusted through the hole near the middle of the chassis bottom. At low signal levels, there should be no difference in sensitivity with the selector switch in either the "AVC" or "MVC" positions. padding condensers integral with the coil units. These should be adjusted so that the tuning conforms with the coil calibrations, starting with any coil - preferably D or E. The r.f. and detector circuits are then adjusted for maximum sensitivity, at the high frequency end of the scale, by means of the trimming condensers on the left and right hand ends of the condenser shield.

After one set of coils is correctly adjusted, it will be necessary only to adjust the padding condenser on the remaining oscillator coils for correct tracking, as the r.f. and detector coils are all set, at the factory, for perfect tuning when the individual oscillator padding condensers are correctly lined up.

Beat-Frequency Oscillátor

frequency.

All adjustments should be made on the beat-frequency oscillator with the volume control selector switch at "MVC," Ordinarily, the beat-frequency oscillator is set at 500 kc. by zero beating a perfectly tuned signal. However, as already suggested, additional selectivity can be secured by detuning the beat-frequency from 1000 to 2000 cycles, which will be desirable when considerable code operation is contemplated. Either of the two adjusting screws in the beat-frequency oscillator coil unit can be employed in setting the

Should any of the high-frequency R.f. First circuits be thrown out of align-Detector ment, realignment should be and Oscillator effected as follows:

The oscillator coils are adjustable over a limited range by means of the individual shunt

Circuit diagram of the GRDPU double power supply unit specially designed for noise and hum reduction. è 60000 10000 Q.Q

