

# Northern Electric 7001

**MODIFICATION** The first few hundred of these receivers (from Serial No. 1 to approximately Serial No. 325) included two components, C-27 and R-7, which do not appear on the schematic shown in this bulletin. These two components were connected in series from contact No. 4 on the volume control to ground, and were removed for the purpose of giving proper taper to the volume control.

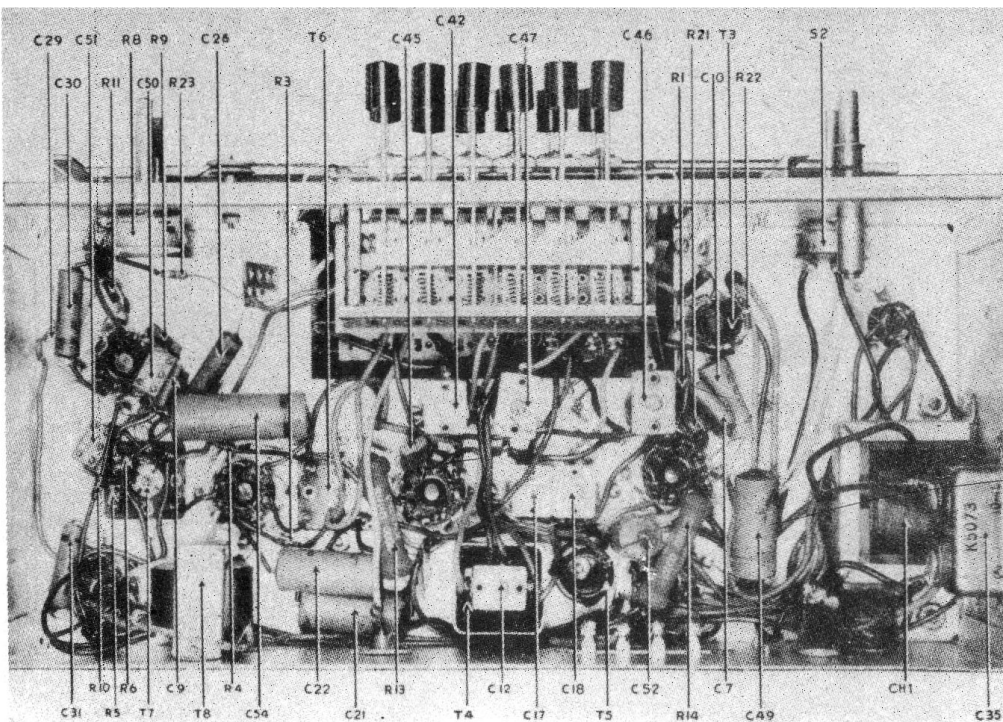
All models after Serial No. 1891 have been modified to provide increased sensitivity in the tuning eye. This was accomplished operating the 6U5 with a target voltage of 97v instead of 255v. This increased sensitivity may be quickly and easily obtained on any of the earlier sets by simply disconnecting the yellow plate lead from the centre rear Terminal (No. 7) on the 1st I.F. Transformer and connecting it to pin No. 4 on the 6SA7.

**PUSHBUTTONS** — Total number — 12 arranged in two rows of 6 using round pushbuttons.

Lower 6 are pre-set stations. Electrical pushbuttons are used with iron core coils for the oscillator & trimmers for the antenna tuning. The R.F. stage is resistance coupled on pushbutton operation. The pre-set adjustment is accessible through the escutcheon. Top 6 are as follows —

1	2	3	4	5	6
Phonograph	Manual Tuning	Pushbutton Tuning	B.C. Band	S.W. 1 11.5-23 mc/s	S.W. 2 5.8-12 mc/s

# Northern Electric 7001 Alignment, Chassis Layout, & Push Button Tuning



MODEL 7001 CHASSIS WIRING

## REALIGNING DETAILS

Alignment Procedure should be carried out according to the following table and in the order shown:

Generator Frequency	Dummy Antenna	Receiver Connection	Control Setting	Item to be Adjusted For Max. Output
1. 455 kc	.1 mfd.	Pin No. 8 6SA7	Manual B.C. Gang Open	Iron cores on T6 & T7. Located at each end of coil shield.
2. 1400 kc	100 mmf.	Terminal No. 1	Manual B.C. Gang set at 1400 kc.	(A) Oscillator trimmer C42 on B.C. osc. coil T10 under chassis. (B) R.F. Trimmer C12 on R.F. coil T4 under chassis. (C) Ant. trimmer C1, on Ant. coil T13 on top of chassis. Gang to be rocked during (B) & (C) adjustment.
3. 600 kc	100 mmf.	Terminal No. 1	Manual B.C. Gang Set at 600 kc.	(A) B.C. concillator iron core on T10 on top of chassis. (B) R.C.R.F. iron core on top of chassis. (C) B.C. Ant. iron core on T13 under chassis. Gang to be rocked during (B) & (C) adjustment.
4. 1400 kc	Repeat No. 2 above			
5. 17.0 mc	400 ohms.	Terminal No. 1	Manual SW-1 Gang Set to 17.0 mc.	(A) SW-1 osc. trimmer C47 on osc. coil T12 under chassis. (B) R.F. trimmer C17 on bracket under chassis. (C) Ant. trimmer C5 on bracket on top of chassis.
6. 10.5 mc	400 ohms.	Terminal No. 1	Manual SW-1 Gang Set to 10.5 mc.	(A) SW-1 osc. iron core on T12 on top of chassis. (B) R.F. iron core on T3 on top of chassis. (C) Ant. iron core on T1 under chassis. Gang to be rocked during (B) & (C) adjustment.
7. 17.0 mc	Repeat No. 5 above			
8. 9.5 mc	400 ohms.	Terminal No. 1	Manual SW-2 Gang Set to 9.5 mc.	(A) SW-2 osc. trimmer C46 on osc. coil T11 (B) R. F. trimmer C18 on bracket under chassis. (C) Ant. trimmer C6 on bracket on top of chassis. Gang to be rocked during (B) & (C) adjustment.
9. 6.0 mc	400 ohms.	Terminal No. 1	Manual SW-2 Gang tuned to signal	Adjust osc. iron core on T11 on top of chassis while rocking gang for maximum sensitivity.
10. 9.5 mc	Repeat No. 8 above			

## REALIGNMENT OF PRESET PUSH BUTTON CIRCUITS

Before shipping, Preset Push Button Circuits are tuned to 600 kc-s, 600 kc-s, 700 kc-s, 900 kc-s, 1200 kc-s, 1600 kc-s, in that order. To retune any one of them, (a) adjust iron core in Preset osc. coil until signal at desired frequency is heard; (b) adjust preset trimmer for max. output.