

| CODE | PART NO. | DESCRIPTION               | 9-21 |
|------|----------|---------------------------|------|
| C1   | 1607     | .05 MFD. 400V. TUB. COND. |      |
| C2   | 16-115   | .1 " 200V. " "            |      |
| C3   | 1504     | .00025 MFD. MICA " "      |      |
| C4   | 16-241   | 20 X 6 MFD. 150V. ELECT.  |      |
| C5   | 20-119   | 3 PLATE TRIMMER           |      |
| T1   | 10-240   | OSCILLATOR TRANS          |      |
| T2   | 80-170   | FILAMENT TRANS.           |      |
| 5    | 59-1     | PHONOGRAPH MOTOR          |      |

| CODE | PART NO. | DESCRIPTION           |
|------|----------|-----------------------|
| R1   | 60-178   | 470M. OHM 1/3 W. RES. |
| R2   | 60-185   | 22 M. " " "           |
| R3   | 60-215   | 10 M. " " "           |
| R4   | 60-189   | 4700 " " "            |
| R5   | 60-217   | 1000 " " "            |
| 1    | 83-130   | PICKUP                |
| 2    | 12-1     | MICROPHONE TERMINAL   |
| 3    | 82-1     | ANTENNA PLATE         |
| 4    | 69-129   | SWITCH (DUAL)         |

## PHONO-OSCILLATOR

### DESCRIPTION

This unit is a Two Tube Phono-Oscillator. The tubes used are a 6A7 as an oscillator and a 76 as a power rectifier.

This unit should be operated between 1500 K.C. and 1700 K.C. and is so designed that the playing of a record on the unit makes it possible that you receive this same recording from any radio set within a nearby vicinity.

### ADJUSTING PUSH BUTTONS FOR MODELS 0-51, 0-70, 0-75, 0-80, and 10-70.

Cut the call letters of your four selected stations from the list supplied with your receiver and slip them into the top of the Push-Buttons, with the clear celluloid on top of the call letters to protect them. Arrange the call letters in the buttons from left to right, having the lowest frequency station (that is, the station closest to 600 K.C. at the left and work progressively towards the right, so that the highest frequency station is toward the right.

Follow the procedure outline below, in order to adjust the push-buttons properly:

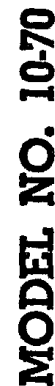
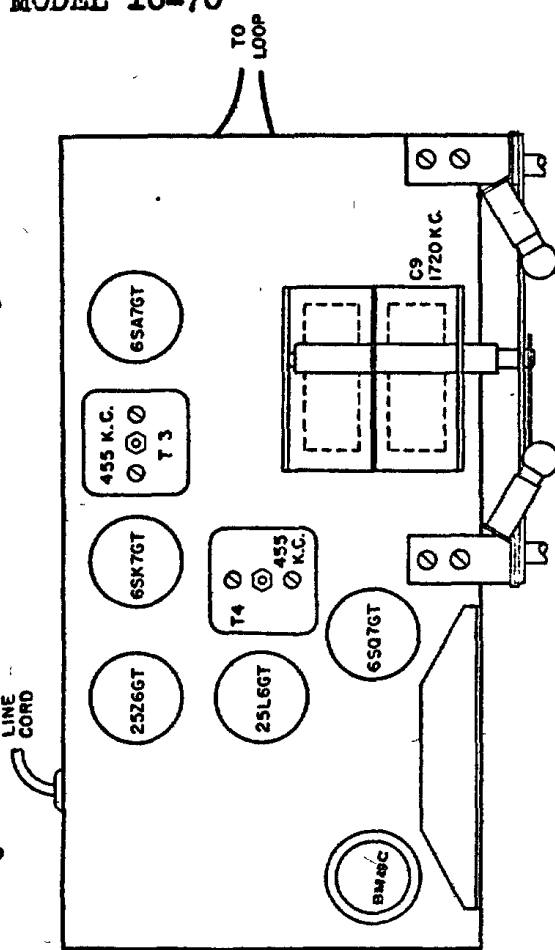
1. By means of the tuning knob, tune in with the right hand as accurately as possible the desired station having the lowest frequency.
2. Continuing to hold the tuning control knob in its exact position with the right hand, loosen with the left hand the push-button to be set up for that station, (the one farthest toward the left) by unscrewing the push-button about one turn to the left (counter-clockwise).
3. Push the push-button in all the way, and then tighten it gently toward the right (clockwise). Release push-button slowly and when in normal position grip button and tighten firmly.

The push-button tuning system is now correctly set up for your first selected station of lowest frequency.

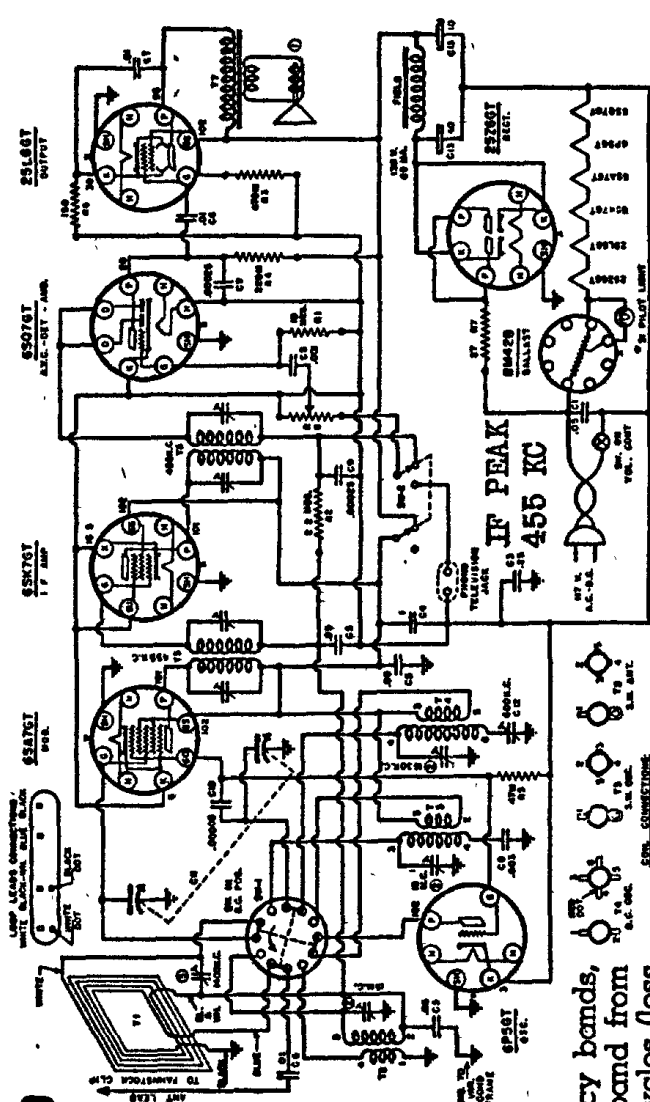
Follow through with this same procedure, setting up the other three stations in the order of their frequency, that is, the second station set up will be second lowest in frequency, etc.

[illegible]

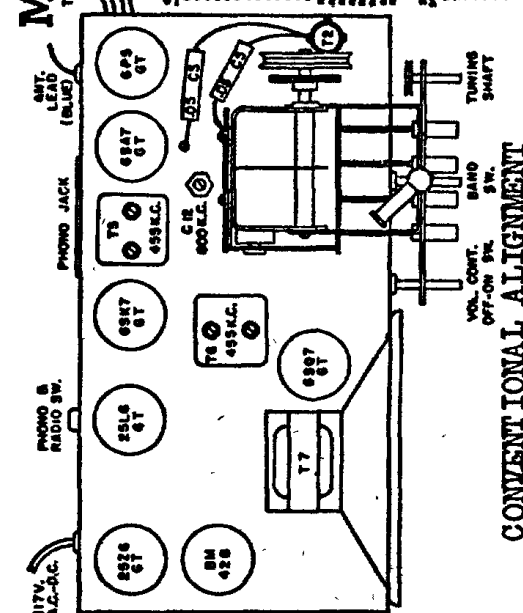
**CONVENTIONAL ALIGNMENT SEE SPECIAL SECTION VOLUME VIII.**  
**Note:** Adjust antenna trimmer to 1400KC, see schematic.



**For push button data, see index.**



| CODE | PART NO. | DESCRIPTION | CODE | PART NO. | DESCRIPTION | CODE | PART NO. | DESCRIPTION         | 0-00 |
|------|----------|-------------|------|----------|-------------|------|----------|---------------------|------|
| 121  | 4807     | .45 MFD     | 81   | 50-178   | 10 MEGOHM   | 71   | 82 5     | ANTENNA LOOP        |      |
| 122  | 4813     | 400 V       | 82   | 50-179   | 10 MEGOHM   | 72   | 82 5     | OSCILLATOR RESISTOR |      |
| 123  | 50       | 500 V       | 83   | 50-180   | 100 OHM     | 73   | 40-301   | 500 OHM RESISTOR    |      |
| 124  | 5000     | 1000        | 84   | 50-181   | 100 OHM     | 74   | 40-312   | 500 OHM RESISTOR    |      |
| 125  | 13112    | 1000        | 85   | 50-182   | 100 OHM     | 75   | 40-312   | 500 OHM RESISTOR    |      |
| 126  | 13112    | 1000        | 86   | 50-183   | 100 OHM     | 76   | 40-312   | 500 OHM RESISTOR    |      |
| 127  | 13112    | 1000        | 87   | 50-184   | 100 OHM     | 77   | 40-312   | 500 OHM RESISTOR    |      |
| 128  | 13112    | 1000        | 88   | 50-185   | 100 OHM     | 78   | 40-312   | 500 OHM RESISTOR    |      |
| 129  | 13112    | 1000        | 89   | 50-186   | 100 OHM     | 79   | 40-312   | 500 OHM RESISTOR    |      |
| 130  | 13112    | 1000        | 90   | 50-187   | 100 OHM     | 80   | 40-312   | 500 OHM RESISTOR    |      |
| 131  | 13112    | 1000        | 91   | 50-188   | 100 OHM     | 81   | 40-312   | 500 OHM RESISTOR    |      |
| 132  | 13112    | 1000        | 92   | 50-189   | 100 OHM     | 82   | 40-312   | 500 OHM RESISTOR    |      |
| 133  | 13112    | 1000        | 93   | 50-190   | 100 OHM     | 83   | 40-312   | 500 OHM RESISTOR    |      |
| 134  | 13112    | 1000        | 94   | 50-191   | 100 OHM     | 84   | 40-312   | 500 OHM RESISTOR    |      |
| 135  | 13112    | 1000        | 95   | 50-192   | 100 OHM     | 85   | 40-312   | 500 OHM RESISTOR    |      |
| 136  | 13112    | 1000        | 96   | 50-193   | 100 OHM     | 86   | 40-312   | 500 OHM RESISTOR    |      |
| 137  | 13112    | 1000        | 97   | 50-194   | 100 OHM     | 87   | 40-312   | 500 OHM RESISTOR    |      |
| 138  | 13112    | 1000        | 98   | 50-195   | 100 OHM     | 88   | 40-312   | 500 OHM RESISTOR    |      |
| 139  | 13112    | 1000        | 99   | 50-196   | 100 OHM     | 89   | 40-312   | 500 OHM RESISTOR    |      |
| 140  | 13112    | 1000        | 100  | 50-197   | 100 OHM     | 90   | 40-312   | 500 OHM RESISTOR    |      |
| 141  | 13112    | 1000        | 101  | 50-198   | 100 OHM     | 91   | 40-312   | 500 OHM RESISTOR    |      |
| 142  | 13112    | 1000        | 102  | 50-199   | 100 OHM     | 92   | 40-312   | 500 OHM RESISTOR    |      |
| 143  | 13112    | 1000        | 103  | 50-200   | 100 OHM     | 93   | 40-312   | 500 OHM RESISTOR    |      |
| 144  | 13112    | 1000        | 104  | 50-201   | 100 OHM     | 94   | 40-312   | 500 OHM RESISTOR    |      |
| 145  | 13112    | 1000        | 105  | 50-202   | 100 OHM     | 95   | 40-312   | 500 OHM RESISTOR    |      |
| 146  | 13112    | 1000        | 106  | 50-203   | 100 OHM     | 96   | 40-312   | 500 OHM RESISTOR    |      |
| 147  | 13112    | 1000        | 107  | 50-204   | 100 OHM     | 97   | 40-312   | 500 OHM RESISTOR    |      |
| 148  | 13112    | 1000        | 108  | 50-205   | 100 OHM     | 98   | 40-312   | 500 OHM RESISTOR    |      |
| 149  | 13112    | 1000        | 109  | 50-206   | 100 OHM     | 99   | 40-312   | 500 OHM RESISTOR    |      |
| 150  | 13112    | 1000        | 110  | 50-207   | 100 OHM     | 100  | 40-312   | 500 OHM RESISTOR    |      |
| 151  | 13112    | 1000        | 111  | 50-208   | 100 OHM     | 101  | 40-312   | 500 OHM RESISTOR    |      |
| 152  | 13112    | 1000        | 112  | 50-209   | 100 OHM     | 102  | 40-312   | 500 OHM RESISTOR    |      |
| 153  | 13112    | 1000        | 113  | 50-210   | 100 OHM     | 103  | 40-312   | 500 OHM RESISTOR    |      |
| 154  | 13112    | 1000        | 114  | 50-211   | 100 OHM     | 104  | 40-312   | 500 OHM RESISTOR    |      |
| 155  | 13112    | 1000        | 115  | 50-212   | 100 OHM     | 105  | 40-312   | 500 OHM RESISTOR    |      |
| 156  | 13112    | 1000        | 116  | 50-213   | 100 OHM     | 106  | 40-312   | 500 OHM RESISTOR    |      |
| 157  | 13112    | 1000        | 117  | 50-214   | 100 OHM     | 107  | 40-312   | 500 OHM RESISTOR    |      |
| 158  | 13112    | 1000        | 118  | 50-215   | 100 OHM     | 108  | 40-312   | 500 OHM RESISTOR    |      |
| 159  | 13112    | 1000        | 119  | 50-216   | 100 OHM     | 109  | 40-312   | 500 OHM RESISTOR    |      |
| 160  | 13112    | 1000        | 120  | 50-217   | 100 OHM     | 110  | 40-312   | 500 OHM RESISTOR    |      |
| 161  | 13112    | 1000        | 121  | 50-218   | 100 OHM     | 111  | 40-312   | 500 OHM RESISTOR    |      |
| 162  | 13112    | 1000        | 122  | 50-219   | 100 OHM     | 112  | 40-312   | 500 OHM RESISTOR    |      |
| 163  | 13112    | 1000        | 123  | 50-220   | 100 OHM     | 113  | 40-312   | 500 OHM RESISTOR    |      |
| 164  | 13112    | 1000        | 124  | 50-221   | 100 OHM     | 114  | 40-312   | 500 OHM RESISTOR    |      |
| 165  | 13112    | 1000        | 125  | 50-222   | 100 OHM     | 115  | 40-312   | 500 OHM RESISTOR    |      |
| 166  | 13112    | 1000        | 126  | 50-223   | 100 OHM     | 116  | 40-312   | 500 OHM RESISTOR    |      |
| 167  | 13112    | 1000        | 127  | 50-224   | 100 OHM     | 117  | 40-312   | 500 OHM RESISTOR    |      |
| 168  | 13112    | 1000        | 128  | 50-225   | 100 OHM     | 118  | 40-312   | 500 OHM RESISTOR    |      |
| 169  | 13112    | 1000        | 129  | 50-226   | 100 OHM     | 119  | 40-312   | 500 OHM RESISTOR    |      |
| 170  | 13112    | 1000        | 130  | 50-227   | 100 OHM     | 120  | 40-312   | 500 OHM RESISTOR    |      |
| 171  | 13112    | 1000        | 131  | 50-228   | 100 OHM     | 121  | 40-312   | 500 OHM RESISTOR    |      |
| 172  | 13112    | 1000        | 132  | 50-229   | 100 OHM     | 122  | 40-312   | 500 OHM RESISTOR    |      |
| 173  | 13112    | 1000        | 133  | 50-230   | 100 OHM     | 123  | 40-312   | 500 OHM RESISTOR    |      |
| 174  | 13112    | 1000        | 134  | 50-231   | 100 OHM     | 124  | 40-312   | 500 OHM RESISTOR    |      |
| 175  | 13112    | 1000        | 135  | 50-232   | 100 OHM     | 125  | 40-312   | 500 OHM RESISTOR    |      |
| 176  | 13112    | 1000        | 136  | 50-233   | 100 OHM     | 126  | 40-312   | 500 OHM RESISTOR    |      |
| 177  | 13112    | 1000        | 137  | 50-234   | 100 OHM     | 127  | 40-312   | 500 OHM RESISTOR    |      |
| 178  | 13112    | 1000        | 138  | 50-235   | 100 OHM     | 128  | 40-312   | 500 OHM RESISTOR    |      |
| 179  | 13112    | 1000        | 139  | 50-236   | 100 OHM     | 129  | 40-312   | 500 OHM RESISTOR    |      |
| 180  | 13112    | 1000        | 140  | 50-237   | 100 OHM     | 130  | 40-312   | 500 OHM RESISTOR    |      |
| 181  | 13112    | 1000        | 141  | 50-238   | 100 OHM     | 131  | 40-312   | 500 OHM RESISTOR    |      |
| 182  | 13112    | 1000        | 142  | 50-239   | 100 OHM     | 132  | 40-312   | 500 OHM RESISTOR    |      |
| 183  | 13112    | 1000        | 143  | 50-240   | 100 OHM     | 133  | 40-312   | 500 OHM RESISTOR    |      |
| 184  | 13112    | 1000        | 144  | 50-241   | 100 OHM     | 134  | 40-312   | 500 OHM RESISTOR    |      |
| 185  | 13112    | 1000        | 145  | 50-242   | 100 OHM     | 135  | 40-312   | 500 OHM RESISTOR    |      |
| 186  | 13112    | 1000        | 146  | 50-243   | 100 OHM     | 136  | 40-312   | 500 OHM RESISTOR    |      |
| 187  | 13112    | 1000        | 147  | 50-244   | 100 OHM     | 137  | 40-312   | 500 OHM RESISTOR    |      |
| 188  | 13112    | 1000        | 148  | 50-245   | 100 OHM     | 138  | 40-312   | 500 OHM RESISTOR    |      |
| 189  | 13112    | 1000        | 149  | 50-246   | 100 OHM     | 139  | 40-312   | 500 OHM RESISTOR    |      |
| 190  | 13112    | 1000        | 150  | 50-247   | 100 OHM     | 140  | 40-312   | 500 OHM RESISTOR    |      |
| 191  | 13112    | 1000        | 151  | 50-248   | 100 OHM     | 141  | 40-312   | 500 OHM RESISTOR    |      |
| 192  | 13112    | 1000        | 152  | 50-249   | 100 OHM     | 142  | 40-312   | 500 OHM RESISTOR    |      |
| 193  | 13112    | 1000        | 153  | 50-250   | 100 OHM     | 143  | 40-312   | 500 OHM RESISTOR    |      |
| 194  | 13112    | 1000        | 154  | 50-251   | 100 OHM     | 144  | 40-312   | 500 OHM RESISTOR    |      |
| 195  | 13112    | 1000        | 155  | 50-252   | 100 OHM     | 145  | 40-312   | 500 OHM RESISTOR    |      |
| 196  | 13112    | 1000        | 156  | 50-253   | 100 OHM     | 146  | 40-312   | 500 OHM RESISTOR    |      |
| 197  | 13112    | 1000        | 157  | 50-254   | 100 OHM     | 147  | 40-312   | 500 OHM RESISTOR    |      |
| 198  | 13112    | 1000        | 158  | 50-255   | 100 OHM     | 148  | 40-312   | 500 OHM RESISTOR    |      |
| 199  | 13112    | 1000        | 159  | 50-256   | 100 OHM     | 149  | 40-312   | 500 OHM RESISTOR    |      |
| 200  | 13112    | 1000        | 160  | 50-257   | 100 OHM     | 150  | 40-312   | 500 OHM RESISTOR    |      |
| 201  | 13112    | 1000        | 161  | 50-258   | 100 OHM     | 151  | 40-312   | 500 OHM RESISTOR    |      |
| 202  | 13112    | 1000        | 162  | 50-259   | 100 OHM     | 152  | 40-312   | 500 OHM RESISTOR    |      |
| 203  | 13112    | 1000        | 163  | 50-260   | 100 OHM     | 153  | 40-312   | 500 OHM RESISTOR    |      |
| 204  | 13112    | 1000        | 164  | 50-261   | 100 OHM     | 154  | 40-312   | 500 OHM RESISTOR    |      |
| 205  | 13112    | 1000        | 165  | 50-262   | 100 OHM     | 155  | 40-312   | 500 OHM RESISTOR    |      |
| 206  | 13112    | 1000        | 166  | 50-263   | 100 OHM     | 156  | 40-312   | 500 OHM RESISTOR    |      |
| 207  | 13112    | 1000        | 167  | 50-264   | 100 OHM     | 157  | 40-312   | 500 OHM RESISTOR    |      |
| 208  | 13112    | 1000        | 168  | 50-265   | 100 OHM     | 158  | 40-312   | 500 OHM RESISTOR    |      |
| 209  | 13112    | 1000        | 169  | 50-266   | 100 OHM     | 159  | 40-312   | 500 OHM RESISTOR    |      |
| 210  | 13112    | 1000        | 170  | 50-267   | 100 OHM     | 160  | 40-312   | 500 OHM RESISTOR    |      |
| 211  | 13112    | 1000        | 171  | 50-268   | 100 OHM     | 161  | 40-312   | 500 OHM RESISTOR    |      |
| 212  | 13112    | 1000        | 172  | 50-269   | 100 OHM     | 162  | 40-312   | 500 OHM RESISTOR    |      |
| 213  | 13112    | 1000        | 173  | 50-270   | 100 OHM     | 163  | 40-312   | 500 OHM RESISTOR    |      |
| 214  | 13112    | 1000        | 174  | 50-271   | 100 OHM     | 164  | 40-312   | 500 OHM RESISTOR    |      |
| 215  | 13112    | 1000        | 175  | 50-272   | 100 OHM     | 165  | 40-312   | 500 OHM RESISTOR    |      |
| 216  | 13112    | 1000        | 176  | 50-273   | 100 OHM     | 166  | 40-312   | 500 OHM RESISTOR    |      |
| 217  | 13112    | 1000        | 177  | 50-274   | 100 OHM     | 167  | 40-312   | 500 OHM RESISTOR    |      |
| 218  | 13112    | 1000        | 178  | 50-275   | 100 OHM     | 168  | 40-312   | 500 OHM RESISTOR    |      |
| 219  | 13112    | 1000        | 179  | 50-276   | 100 OHM     | 169  | 40-312   | 500 OHM RESISTOR    |      |
| 220  | 13112    | 1000        | 180  | 50-277   | 100 OHM     | 170  | 40-312   | 500 OHM RESISTOR    |      |
| 221  | 13112    | 1000        | 181  | 50-278   | 100 OHM     | 171  | 40-312   | 500 OHM RESISTOR    |      |
| 222  | 13112    | 1000        | 182  | 50-279   | 100 OHM     | 172  | 40-312   | 500 OHM RESISTOR    |      |
| 223  | 13112    | 1000        | 183  | 50-280   | 100 OHM     | 173  | 40-312   | 500 OHM RESISTOR    |      |
| 224  | 13112    | 1000        | 184  | 50-281   | 100 OHM     | 174  | 40-312   | 500 OHM RESISTOR    |      |
| 225  | 13112    | 1000        | 185  | 50-282   | 100 OHM     | 175  | 40-312   | 500 OHM RESISTOR    |      |
| 226  | 13112    | 1000        | 186  | 50-283   | 100 OHM     | 176  | 40-312   | 500 OHM RESISTOR    |      |
| 227  | 13112    | 1000        | 187  | 50-284   | 100 OHM     | 177  | 40-312   | 500 OHM RESISTOR    |      |
| 228  | 13112    | 1000        | 188  | 50-285   | 100 OHM     | 178  | 40-312   | 500 OHM RESISTOR    |      |
| 229  | 13112    | 1000        | 189  | 50-286   | 100 OHM     | 179  | 40-312   | 500 OHM RESISTOR    |      |
| 230  | 13112    | 1000        | 190  | 50-287   | 100 OHM     | 180  | 40-312   | 500 OHM RESISTOR    |      |
| 231  | 13112    | 1000        | 191  | 50-288   | 100 OHM     | 181  | 40-312   | 500 OHM RESISTOR    |      |
| 232  | 13112    | 1000        | 192  | 50-289   | 100 OHM     | 182  | 40-312   | 500 OHM RESISTOR    |      |
| 233  | 13112    | 1000        | 193  | 50-290   | 100 OHM     | 183  | 40-312   | 500 OHM RESISTOR    |      |
| 234  | 13112    | 1000        | 194  | 50-291   | 100 OHM     | 184  | 40-312   | 500 OHM RESISTOR    |      |
| 235  | 13112    | 1000        | 195  | 50-292   | 100 OHM     | 185  | 40-312   | 500 OHM RESISTOR    |      |
| 236  | 13112    | 1000        | 196  | 50-293   | 100 OHM     | 186  | 40-312   | 500 OHM RESISTOR    |      |
| 237  | 13112    | 1000        | 197  | 50-294   | 100 OHM     | 187  | 40-312   | 500 OHM RESISTOR    |      |
| 238  | 13112    | 1000        | 198  | 50-295   | 100 OHM     | 188  | 40-312   | 500 OHM RESISTOR    |      |
| 239  | 13112    | 1000        | 199  | 50-296   | 100 OHM     | 189  | 40-312   | 500 OHM RESISTOR    |      |
| 240  | 13112    | 1000        | 200  | 50-297   | 100 OHM     | 190  | 40-312   | 500 OHM RESISTOR    |      |
| 241  | 13112    | 1000        | 201  | 50-298   | 100 OHM     | 191  | 40-312   | 500 OHM RESISTOR    |      |
| 242  | 13112    | 1000        | 202  | 50-299   | 100 OHM     | 192  | 40-312   | 500 OHM RESISTOR    |      |
| 243  | 13112    | 1000        | 203  | 50-300   | 100 OHM     | 193  | 40-312   | 500 OHM RESISTOR    |      |
| 244  | 13112    | 1000        | 204  | 50-301   | 100 OHM     | 194  | 40-312   | 500 OHM RESISTOR    |      |
| 245  | 13112    | 1000        | 205  | 50-302   | 100 OHM     | 195  | 40-312   | 500 OHM RESISTOR    |      |
| 246  | 13112    | 1000        | 206  | 50-303   | 100 OHM     | 196  | 40-312   | 500 OHM RESISTOR    |      |
| 247  | 13112    | 1000        | 207  | 50-304   | 100 OHM     | 197  | 40-312   | 500 OHM RESISTOR    |      |
| 248  | 13112    | 1000        | 208  | 50-305   | 100 OHM     | 198  | 40-312   | 500 OHM RESISTOR    |      |
| 249  | 13112    | 1000        | 209  | 50-306   | 100 OHM     | 199  | 40-312   | 500 OHM RESIST      |      |



CONVENTIONAL ALIGNMENT  
SEE SPECIAL SECTION VOLUME VIII

This model has been designed to cover two separate frequency bands, a broadcast band from 540 K.C. to 1630 K.C. and a short wave band from 5.7 to 18 M.C. The dial scale has been calibrated directly in kilocycles (less the final 0) on the broadcast band, while the short wave band is calibrated directly in megacycles.