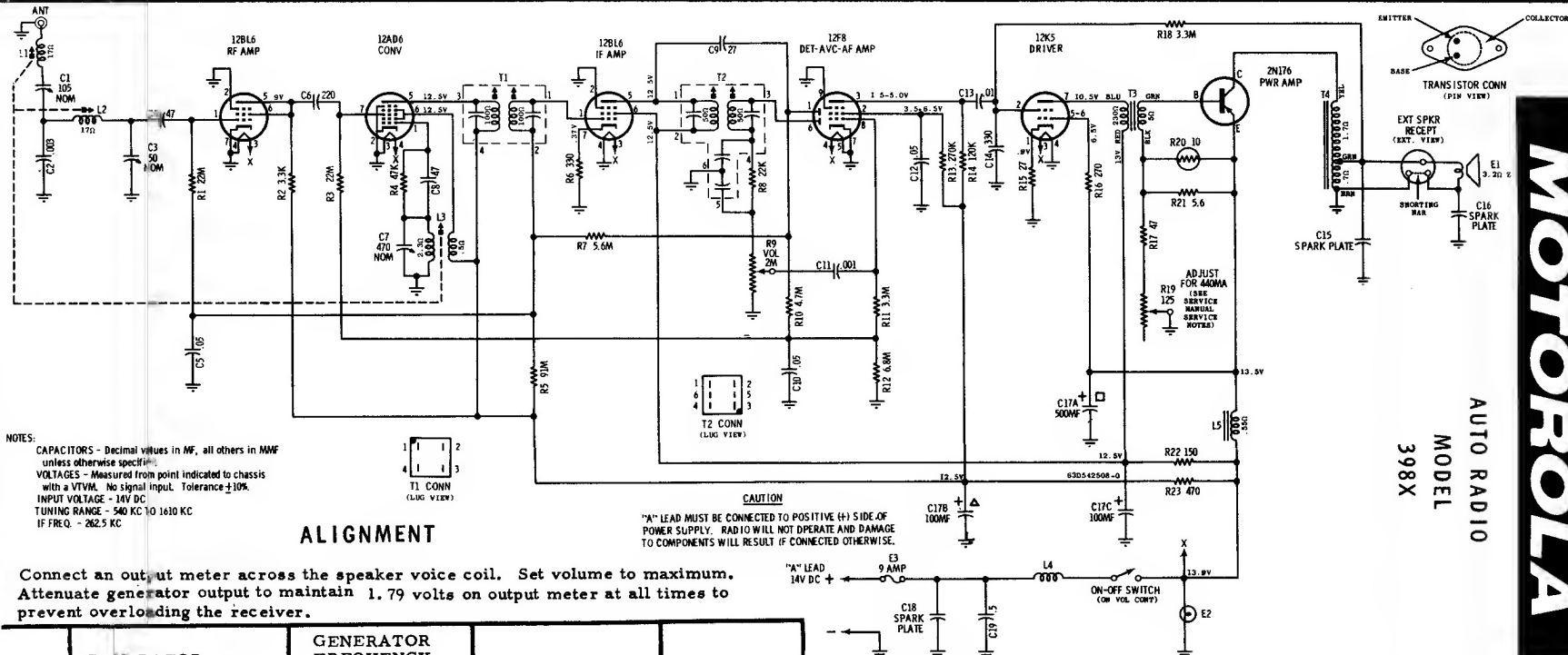




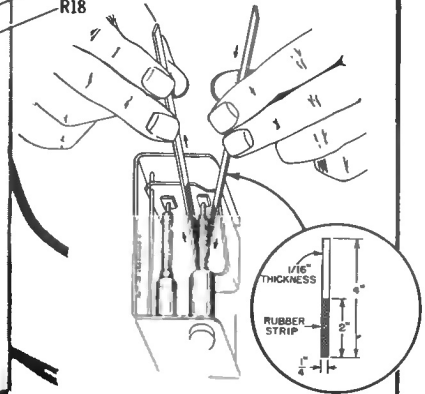
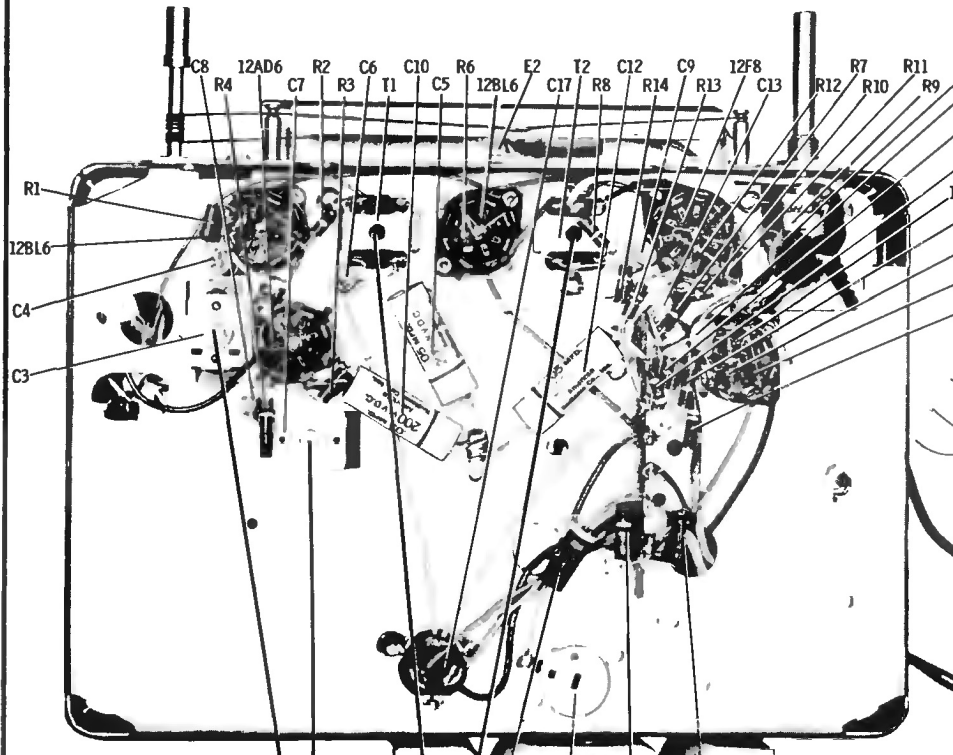
| STEP                                                                                                                                                                                                                                                                           | GENERATOR CONNECTION                               | GENERATOR FREQUENCY (400 cycle mod) | TUNER SET TO                | ADJUST      | REMARKS                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------|-----------------------------|-------------|-------------------------------------------------------------------------------------------|
| IF ALIGNMENT<br>1.                                                                                                                                                                                                                                                             | Conv grid (pin 7) thru .1 mf capacitor and chassis | 262.5 Kc                            | Hi end stop                 | 1, 2, 3 & 4 | Peak for maximum.                                                                         |
| RF ALIGNMENT<br>2.                                                                                                                                                                                                                                                             | Ant recept through dummy (see Fig.)                | 1610 Kc                             | Hi end stop                 | 5, 6 & 7    | Peak for maximum.                                                                         |
| NOTE: Do not perform steps 3, 4, 5 & 6 unless tuner has been tampered with or components have been replaced. Before proceeding with step 3, back tuning cores 1" out of coils to eliminate their effect on trimmer adjustments. Construct core alignment tools as shown below. |                                                    |                                     |                             |             |                                                                                           |
| 3.                                                                                                                                                                                                                                                                             | Ant recept through dummy (see Fig.)                | 1610 Kc                             | Hi end stop                 | 5, 6 & 7    | Peak for maximum.                                                                         |
| 4.                                                                                                                                                                                                                                                                             | "                                                  | 1400 Kc                             | 13/64" from hi end stop     | 8, 9 & 10   | Peak for maximum.                                                                         |
| 5.                                                                                                                                                                                                                                                                             | "                                                  | 1610 Kc                             | Hi end stop                 | 5, 6 & 7    | Peak for maximum.                                                                         |
| 6. Repeat steps 4 and 5 until no further increase, then cement tuning cores in place.                                                                                                                                                                                          |                                                    |                                     |                             |             |                                                                                           |
| ANTENNA TRIMMER<br>7.                                                                                                                                                                                                                                                          | -                                                  | -                                   | Weak station around 1400 Kc | 7           | With radio installed in car and antenna fully extended, peak antenna trimmer for maximum. |

AUTO RADIO  
MODEL  
398X

MOTOROLA

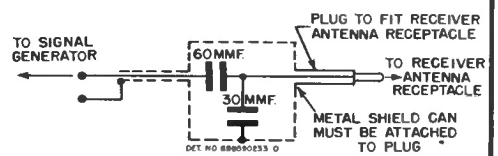
# MOTOROLA

## Model 398X

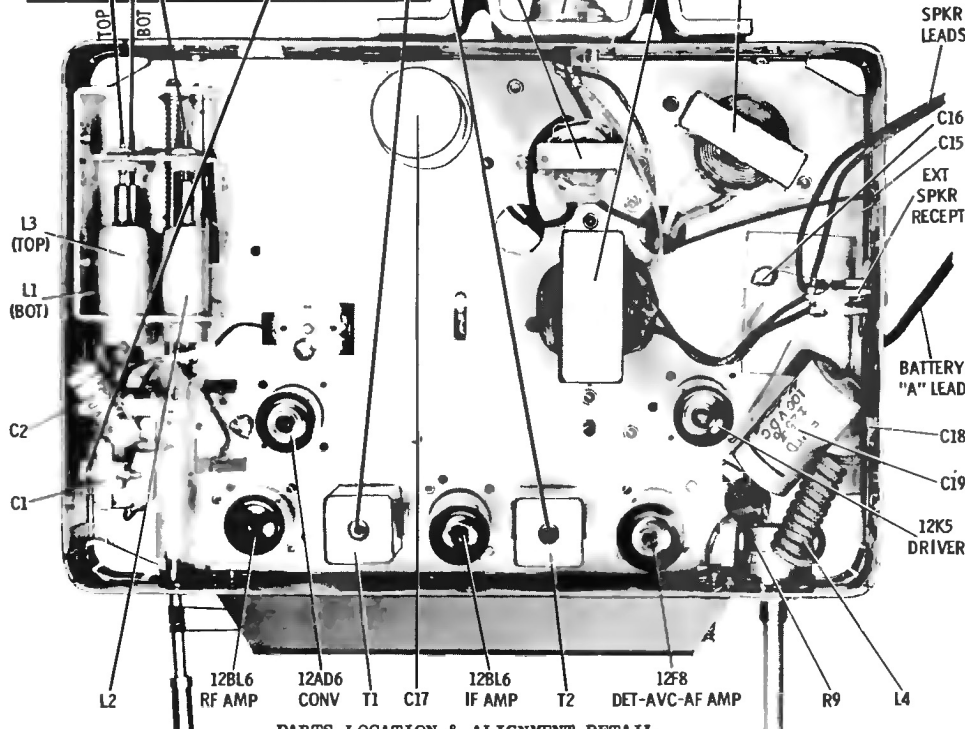


CORE ALIGNMENT TOOL DETAIL

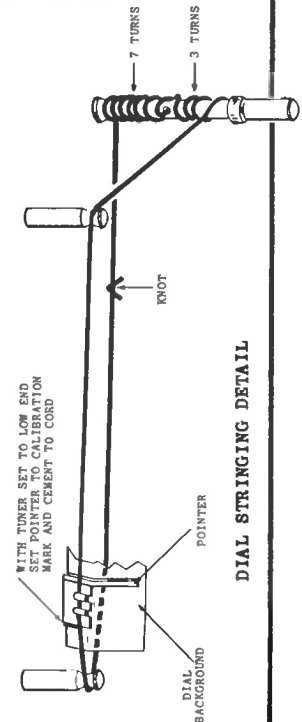
- |                          |                         |                        |
|--------------------------|-------------------------|------------------------|
| RF CORE<br>1400 KC (9)   | RF TRIM<br>1610 KC (6)  | 1ST IF<br>262.5 KC (3) |
| ANT CORE<br>1400 KC (10) | OSC TRIM<br>1610 KC (5) | 2ND IF<br>262.5 KC (2) |
| OSC CORE<br>1400 KC (8)  | ANT TRIM<br>1610 KC (7) | 2ND IF<br>262.5 KC (1) |
|                          |                         | 1ST IF<br>262.5 KC (4) |



DUMMY ANTENNA DETAIL



PARTS LOCATION & ALIGNMENT DETAIL



DIAL STRINGING DETAIL