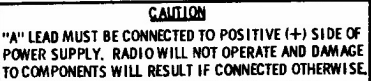


auto radio

MOPAR 216,217,337,339,344,345



PLATED CHASSIS BOARD DESCRIPTION - Motorola's PLACR chassis has plating on both sides of the chassis board. The exposed side contains the actual circuit connections while the plating on the component side of the chassis board provides a convenient chassis B-return for components and circuit wiring. Plating on the component side also provides shielding between the top and bottom of the unit similar to a metal chassis which incorporates hand wiring.

All B-connections are carried through the PLACR chassis in multiple paths to the B-side. This insures a good low resistance return path.

PLATED	CHASSIS	BOARD
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
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64	64	64
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67	67	67
68	68	68
69	69	69
70	70	70
71	71	71
72	72	72
73	73	73
74	74	74
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84	84	84
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86	86	86
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88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

path.

incorporates hand wiring.

insures a good low resistance return path.

plated board until its tabs are free; carefully remove from housing.

After servicing is performed, re-install plated chassis board, engaging 4 board tabs into slots in housing; then attach plated chassis mounting bracket into place. It is important, at this point, that the following leads are dressed correctly.

- A. Make certain the pilot light leads and transistor leads are dressed above the pilot light socket; do not allow them to lie between the pilot light and light shield.
- B. Dress volume control leads away from filter choke.
- C. Dress antenna lead along edge of plated chassis as far away from oscillator and RF trimmer as possible.

TRANSISTOR REPLACEMENT -

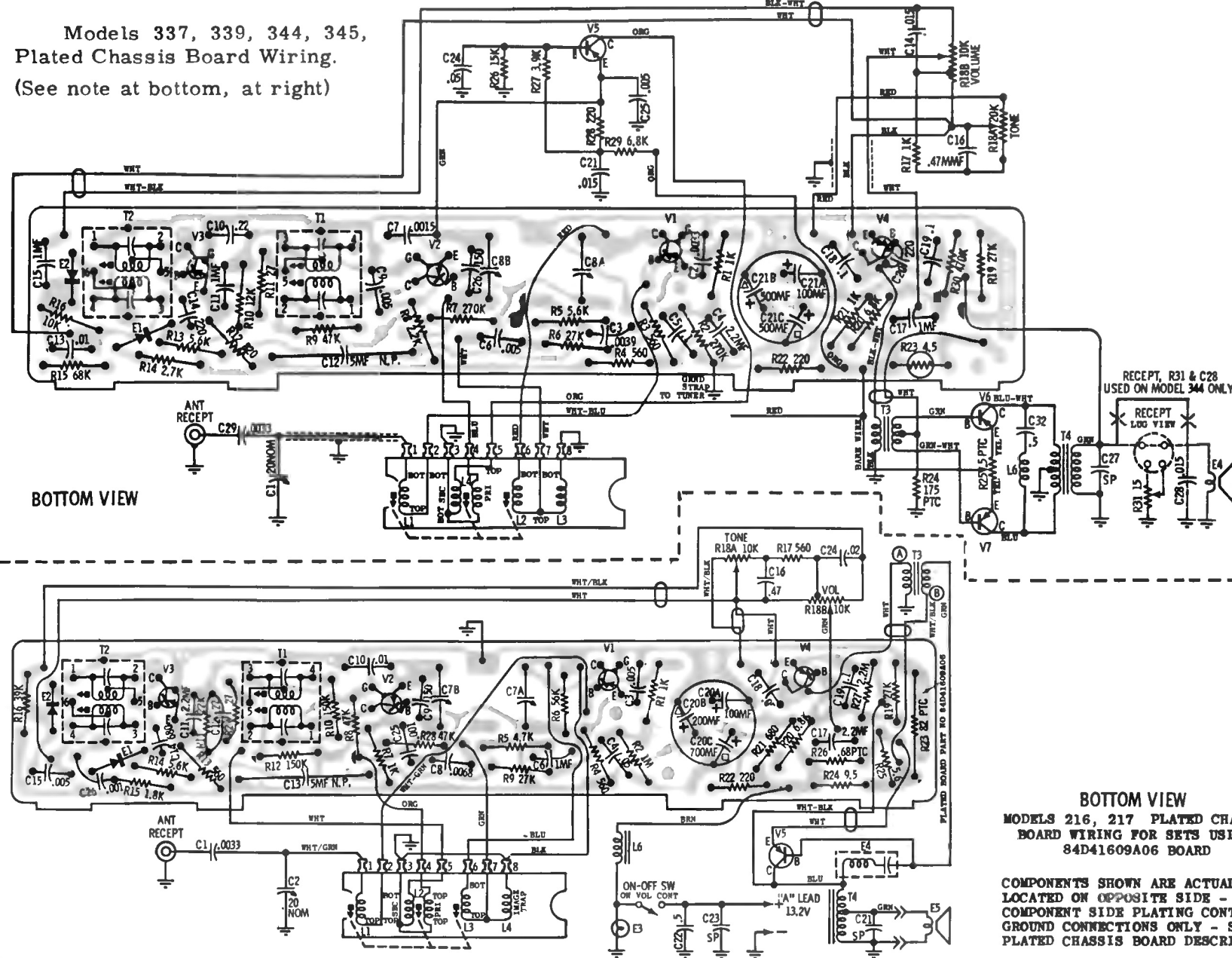
When replacing a transistor (other than a power transistor), grasp the transistor leads (between transistor body and plated chassis board) with a pair of long nose pliers to prevent excessive heating of transistor body during soldering operation.

TO SET PUSHBUTTONS

Allow receiver to warm up for fifteen minutes. Pull out on push-button to unlock. Push pushbutton in firmly to lock after station has been selected.

Models 337, 339, 344, 345,
Plated Chassis Board Wiring.
(See note at bottom, at right)

MOTOROLA Models 216, 217, 337, 339, 344, 345



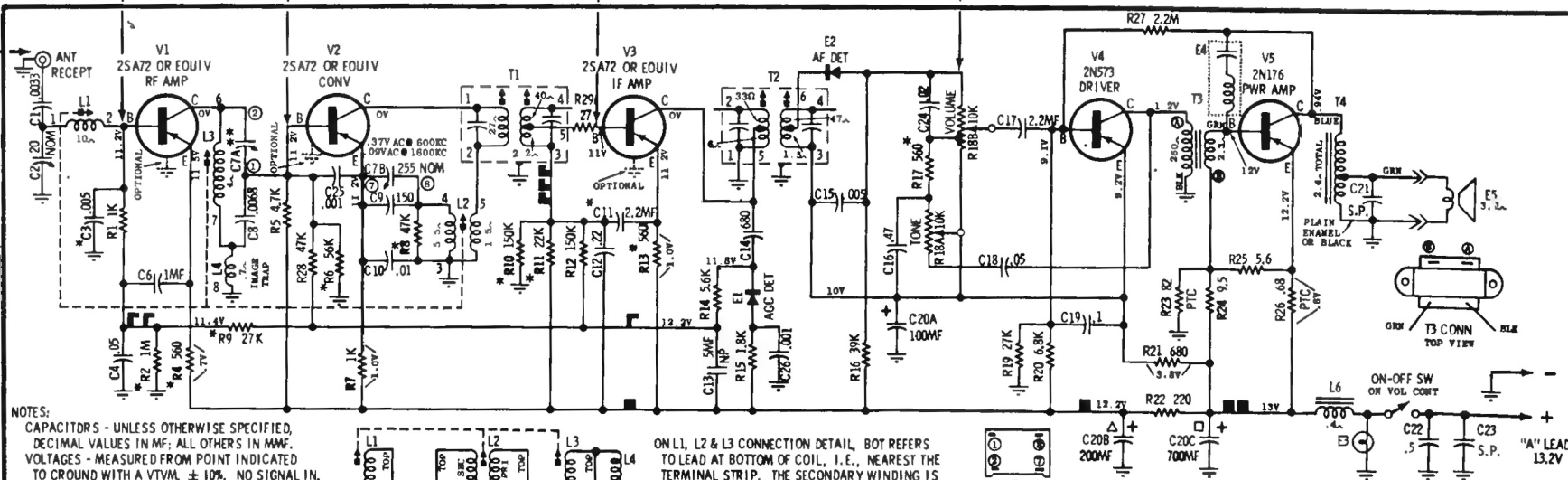
1.1 μV @ 1000KC
FOR 1 WATT
OF 400 CYCLES OUTPUT

1.1 μV @ 1000KC
FOR 1 WATT
OF 400 CYCLES OUTPUT

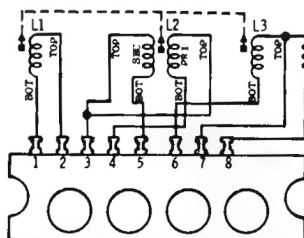
16 μV 262.5KC
FOR 1 WATT
OF 400 CYCLE OUTPUT

1700 μV @ 262.5KC
FOR 1 WATT
OF 400 CYCLE OUTPUT

.008V @ TOP OF VOLUME CONTROL
400 CYCLES
FOR 1 WATT OUTPUT

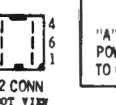
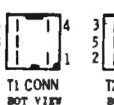
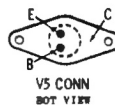
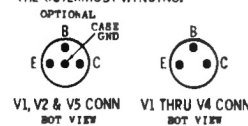


NOTES:
CAPACITORS - UNLESS OTHERWISE SPECIFIED,
DECIMAL VALUES IN MF; ALL OTHERS IN MMF.
VOLTAGES - MEASURED FROM POINT INDICATED
TO GROUND WITH A VTVM, $\pm 10\%$. NO SIGNAL IN.
INPUT VOLTAGE -13.2VDC.
TUNING RANGE - 540 KC TO 1610 KC.
IF FREQ. - 262.5 KC.
* THESE VALUES ARE NOMINAL AND MAY VARY
IN PRODUCTION TO MEET SPECIFICATIONS.
** SEE REPLACEMENT PARTS LIST
PLATED CHASSIS BOARD WIRING LEGEND
B+ = B+ AVC RF AVC IF AVC



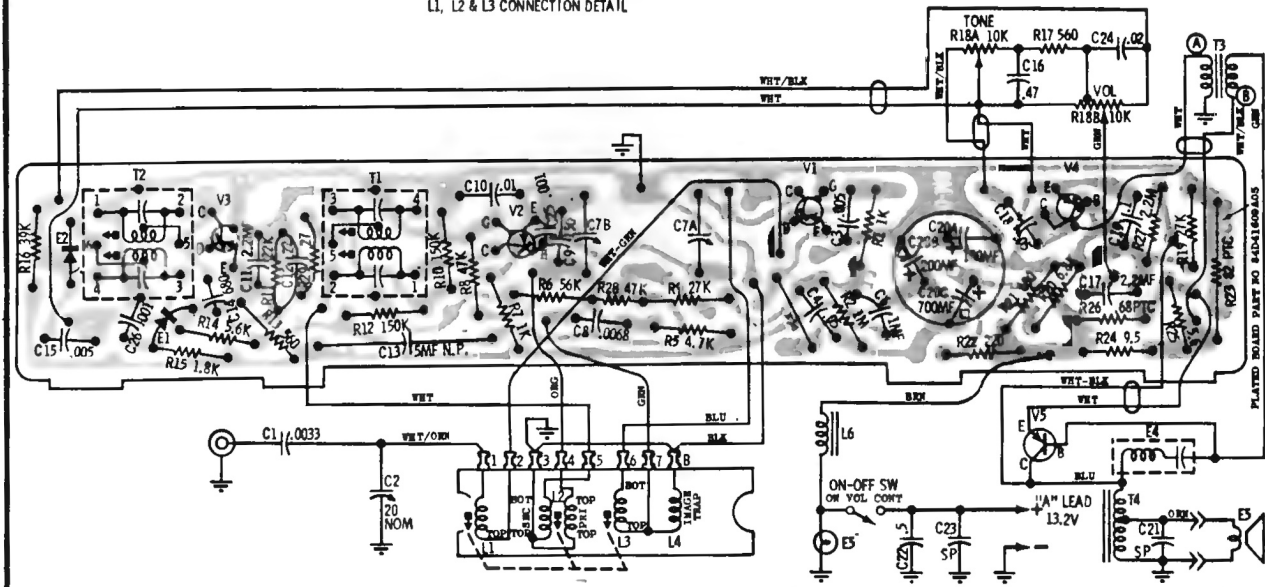
L1, L2 & L3 CONNECTION DETAIL

ON L1, L2 & L3 CONNECTION DETAIL, BOT REFERS
TO LEAD AT BOTTOM OF COIL, I.E., NEAREST THE
TERMINAL STRIP. THE SECONDARY WINDING IS
THE OUTERMOST WINDING.



CAUTION
"A" LEAD MUST BE CONNECTED TO POSITIVE (+) SIDE OF
POWER SUPPLY. RADIO WILL NOT OPERATE AND DAMAGE
TO COMPONENTS WILL RESULT IF CONNECTED OTHERWISE.

MODELS 216, 217 SCHEMATIC DIAGRAM



BOTTOM VIEW
MODELS 216, 217 PLATED CHASSIS
BOARD WIRING FOR SETS USING
84D41609A05 BOARD

COMPONENTS SHOWN ARE ACTUALLY
LOCATED ON OPPOSITE SIDE -
COMPONENT SIDE PLATING CONTAINS
GROUND CONNECTIONS ONLY - SEE
PLATED CHASSIS BOARD DESCRIPTION

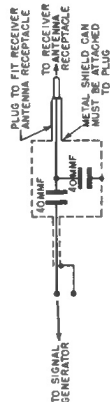
MOTOROLA Models 216, 217,
337, 339, 344, 345

MOTOROLA Models 216, 217, 337, 339, 344, 345, Alignment Data

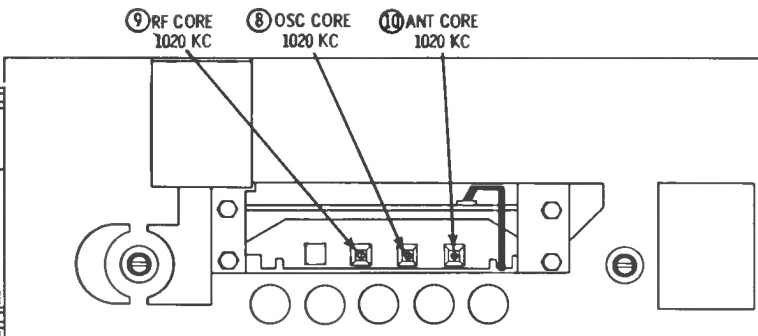
ALIGNMENT

Connect an output meter across the speaker voice coil. Set volume to maximum and tone to high. Attenuate signal generator output to maintain 1.79 volts on output meter at all times to prevent overloading the receiver.

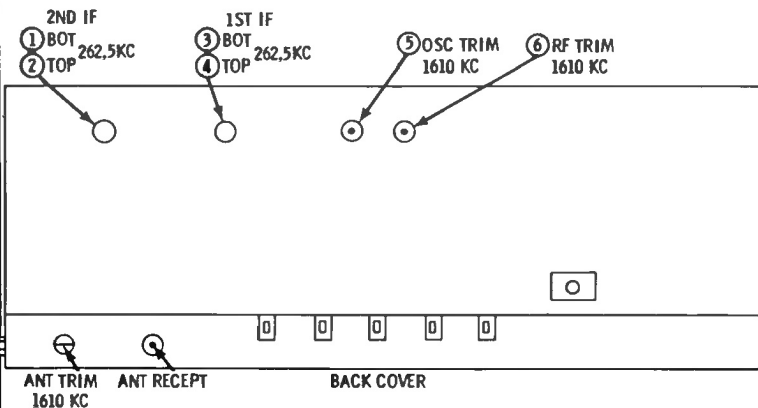
STEP	GENERATOR CONNECTION	GENERATOR FREQUENCY (400 cycle mod)	TUNER SET TO	ADJUST	REMARKS
IF ALIGNMENT					
1.	Ant recept thru .1 mf capacitor & ground	262.5 Kc	H _i end stop	1, 2, 3 & 4	Adjust for maximum.
RF ALIGNMENT					
2.	Ant recept thru dummy antenna (see Figure)	1610 Kc	H _i end stop	5, 6 & 7	Adjust for maximum.
NOTE: Do not perform steps 3, 4, 5 & 6 unless the tuner has been tampered with or components have been replaced. Before proceeding with step 3, back tuning cores (of ant, RF & osc only) out of coils to eliminate their effect on the trimmer adjustments.					
3.	Ant recept thru dummy antenna (see Figure)	1610 Kc	H _i end stop	5, 6 & 7	Adjust for maximum.
4.	"	1020 Kc	Tuner carriage 9/16" in from h _i end stop	8, 9 & 10	Adjust for maximum, using alignment tool Motorola Part No. 66A76278.
5.	"	1610 Kc	H _i end stop	5, 6 & 7	Adjust for maximum.
6.	Repeat steps 4 & 5 until no further increase, then cement cores in place.				Step 5 should be last step.
ANTENNA TRIMMER					
7.			Weak station around 1400 Kc	7	With radio installed in car and antenna fully extended, peak antenna trimmer for maximum.



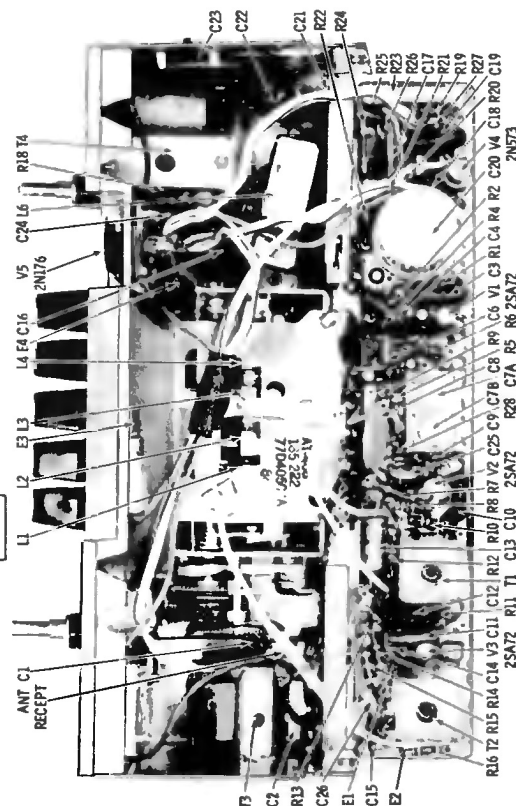
DUMMY ANTENNA



FRONT VIEW WITH DIAL SCALE REMOVED



ALIGNMENT LOCATION DETAIL



MODELS 216, 217 PARTS LOCATION