EMERSON RADIO MODELS: 1002, 1003

CHASSIS MODEL: 129003

The second i-f transformer (T2) is mounted on top of the chassis to the right of the speaker. The trimmers (C7, C8) are accessible through holes in the top of the can.

The trimmer for the antenna (C3) and the trimmer for the oscillator coil (C4) are located on the variable condenser. The trimmer on the front section is for the oscillator coil.

I-f Alignment

- Rotate the variable condenser to the minimum capacity position.
- Feed 455 kc to the converter grid (stator of the r-f section of the variable condenser) and adjust the four i-f trimmers (C5, C6, C7, C8) for maximum response.

R-f Alignment

- Connect the oscillator to a coil composed of three or four turns of wire wound in a circle approximately 12" in diameter. This coil should be held parallel to and in line with the loop antenna of the receiver at a distance of 15 to 20 inches.
- Radiate a signal at 1425 kc, set the dial indicator to 1425 kc, and adjust the trimmers on the variable condenser
 (C3, C4) for maximum response.
- Radiate a 600 kc signal and tune in the signal on the receiver. Adjust the loose outside turn of the loop antenna for maximum response. This loose turn may be moved to either side of the center. Fasten it in the position which gives maximum response.
- 4. Repeat steps 2 and 3 until no further improvement is

C1, C2 *C3, C4 *C5, C6, \{ C7, C8 \} C9, C15, \{ C20, C25 \} C10 S13 S20 S21 S21 S21 S21 S21 S22 S22 S23 S23 S24 S24 S25 S26 S27 S27 S28	Schematic Symbol	†Part No.	DESCRIPTION
*C3, C4 *C5, C6, \{ C7, C8 \} C9, C15, \{ C20, C25 \} C10 C11, C12, \{ C21 \} C13 C14 C16 C16 C17, C24 C18, C19 C18, C19 C18, C19 C19 C10 C10 C10 C10 C10 C10 C10 C11 C20 C11 C21 C21 C21 C21 C21 C21 C21 C21 C21	C1, C2	900070	Two-gang variable condenser
*C5, C6, \{ C7, C8 \} C9, C15, \{ C20, C25 \} C10 C11, C12, \{ C21 \} C13 C14 C14 C16 C16 C17, C24 C18, C19 C18, C19 C18, C19 C19 C10			
C7, C8 { C9, C15, { C20, C25 } C10 C10 C11, C12, { C21			
C20, C25 920010 0.002 mtd., 600 volt condenser C11, C12, 920020 0.0005 mfd., 600 volt condenser C21 920020 0.02 mfd., 400 volt condenser C13 920040 0.1 mfd., 200 volt condenser C14 910010 0.00011 mfd. mica condenser C16 920050 0.2 mfd., 200 volt condenser C17, C24 920030 0.05 mfd., 400 volt condenser C18, C19 925011 50-50 mfd., 150 volt dual electrolytic C22 920060 0.05 mfd., 200 volt condenser C23 925180 10 mfd., 25 volt electrolytic C34 920000 C35 mfd., 200 volt condenser C25 920060 0.05 mfd., 200 volt condenser C26 920060 0.05 mfd., 200 volt condenser C27 920060 0.05 mfd., 200 volt condenser C28 920060 0.05 mfd., 200 volt condenser C29 920060 0.05 mfd., 200 volt condenser C20 920060 0.05 mfd., 400 volt condenser C21 920050 0.00011 mfd. mica condenser C22 920060 0.00011 mfd. mica condenser C23 925011 0.00011 mfd. mica condenser C24 920030 0.05 mfd., 200 volt condenser C25 920060 0.05 mfd., 200 volt condenser C26 920060 0.00011 mfd. mica condenser C27 0.00011 mfd. mica condenser C28 920060 0.00011 mfd. mica condenser C29 0.00011 mfd. mica condenser C20 0.00011 mfd. production C20 0.00011 mfd. productio			Trimmers, part of i-f transformers
C20, C25 920010 0.002 mtd., 600 volt condenser C11, C12, 920020 0.0005 mfd., 600 volt condenser C21 920020 0.02 mfd., 400 volt condenser C13 920040 0.1 mfd., 200 volt condenser C14 910010 0.00011 mfd. mica condenser C16 920050 0.2 mfd., 200 volt condenser C17, C24 920030 0.05 mfd., 400 volt condenser C18, C19 925011 50-50 mfd., 150 volt dual electrolytic C22 920060 0.05 mfd., 200 volt condenser C23 925180 10 mfd., 25 volt electrolytic C34 920000 C35 mfd., 200 volt condenser C25 920060 0.05 mfd., 200 volt condenser C26 920060 0.05 mfd., 200 volt condenser C27 920060 0.05 mfd., 200 volt condenser C28 920060 0.05 mfd., 200 volt condenser C29 920060 0.05 mfd., 200 volt condenser C20 920060 0.05 mfd., 400 volt condenser C21 920050 0.00011 mfd. mica condenser C22 920060 0.00011 mfd. mica condenser C23 925011 0.00011 mfd. mica condenser C24 920030 0.05 mfd., 200 volt condenser C25 920060 0.05 mfd., 200 volt condenser C26 920060 0.00011 mfd. mica condenser C27 0.00011 mfd. mica condenser C28 920060 0.00011 mfd. mica condenser C29 0.00011 mfd. mica condenser C20 0.00011 mfd. production C20 0.00011 mfd. productio	C9, C15, }		
C10 C11, C12, { C21		920010	0.002 mfd., 600 volt condenser
C21		920240	0.0005 mfd., 600 volt condenser
C13 920040 0.1 mfd., 200 volt condenser C14 910010 0.00011 mfd. mica condenser C16 920050 0.2 mfd., 200 volt condenser C18, C19 925011 50-50 mfd., 400 volt condenser C22 920060 0.05 mfd., 150 volt dual electrolytic condenser C23 925180 10 mfd., 200 volt condenser C24 920060 0.05 mfd., 200 volt condenser C25 925180 10 mfd., 25 volt electrolytic condenser C26 L1 700000 L000 antenna C27 2000 ohms, ½ watt resistor C28 925180 10 mfd., 25 volt electrolytic condenser C3925180 10 mfd., 25 volt electrolytic condenser C40000 ohms, ½ watt resistor C5000 ohms, ½ watt resistor	C11, C12,		
C14 910010 0.00011 mfd. mica condenser C16 920050 0.2 mfd., 200 volt condenser C18, C19 925011 50-50 mfd., 150 volt dual electrolytic condenser C22 920060 0.05 mfd., 150 volt dual electrolytic condenser C23 925180 10 mfd., 200 volt condenser C24 920060 10 mfd., 25 volt electrolytic condenser C25 P25180 10 mfd., 25 volt electrolytic condenser C26 P25180 10 mfd., 25 volt electrolytic condenser C27 P25180 10 mfd., 25 volt electrolytic condenser C28 P25180 10 mfd., 25 volt electrolytic condenser C29 P25180 10 mfd., 25 volt electrolytic condenser C29 P25180 10 mfd., 200 volt condenser C21 P25180 10 mfd., 200 volt condenser C22 P25180 10 mfd., 25 volt electrolytic condenser C23 P25180 10 mfd., 25 volt electrolytic condenser C24 P25180 10 mfd., 25 volt electrolytic condenser C25 P25180 10 mfd., 250 volt condenser C26 P25180 10 mfd., 250 volt condenser C27 P25180 10 mfd., 250 volt condenser C28 P25180 10 mfd., 250 volt condenser C29 P25180 10 mfd., 250 volt electrolytic condenser C29 P25180 10 mfd., 250 volt electrolytic condenser C29 P25180 10 mfd., 250 volt electrolytic condenser C20 P25180 10 mfd.,	C21 5	920020	0.02 mfd., 400 volt condenser
C16 920050 0.2 mfd., 200 volt condenser 0.05 mfd., 400 volt condenser 0.05 mfd., 150 volt dual electrolytic condenser 0.05 mfd., 200 volt condenser 10 mfd., 25 volt electrolytic condenser 10 mfd., 200 volt condenser 10 mfd., 25 volt electrolytic 10 mfd., 25 volt electro	C13	920040	0.1 mfd., 200 volt condenser
C17, C24 920030 0.05 mfd., 400 volt condenser C18, C19 925011 50-50 mfd., 150 volt dual electrolytic condenser C22 920060 0.05 mfd., 200 volt condenser C23 925180 10 mfd., 25 volt electrolytic condenser L1 700000 Loop antenna R1 340810 15 meg., ½ watt resistor R2, R9 397000 R3, R4 351130 470,000 ohms, ½ watt resistor	C14	910010	0.00011 mfd. mica condenser
C18, C19 925011 50-50 mfd., 150 volt dual electrolytic condenser C22 920060 0.05 mfd., 200 volt condenser C23 925180 10 mfd., 25 volt electrolytic condenser L1 700000 Loop antenna R1 340810 22,000 ohms, ½ watt resistor R2, R9 397000 15 meg., ½ watt resistor R3, R4 351130 470,000 ohms, ½ watt resistor	C16	920050	0.2 mfd., 200 volt condenser
C22 920060 0.05 mfd., 200 volt condenser C23 925180 10 mfd., 25 volt electrolytic condenser L1 700000 Loop antenna R1 340810 22,000 ohms, ½ watt resistor R2, R9 397000 15 meg., ½ watt resistor R3, R4 351130 470,000 ohms, ½ watt resistor	C17, C24	920030	0.05 mfd., 400 volt condenser
C22 920060 0.05 mfd., 200 volt condenser C23 925180 10 mfd., 25 volt electrolytic condenser L1 700000 Loop antenna C2,000 ohms, ½ watt resistor C23 925180 10 mfd., 25 volt electrolytic condenser L1 700000 Loop antenna C2,000 ohms, ½ watt resistor C24 920060 10 mfd., 20 volt condenser C37 10 mfd., 20 volt condenser C38 10 mfd., 20 volt condenser C38 10 mfd., 200 volt condenser C48 10 mfd., 25 volt electrolytic C48 10 mfd., 25 volt electrolytic C58 10	C18, C19	925011	50-50 mfd., 150 volt dual electrolytic
C23 925180 10 mfd., 25 volt electrolytic condenser L1 700000 Loop antenna R1 340810 22,000 ohms, ½ watt resistor R2, R9 397000 15 meg., ½ watt resistor R3, R4 351130 470,000 ohms, ½ watt resistor			condenser
Condenser	C22	920060	0.05 mfd., 200 volt condenser
L1 700000 Loop antenna R1 340810 22,000 ohms, ½ watt resistor R2, R9 397000 15 meg., ½ watt resistor R3, R4 351130 470,000 ohms, ½ watt resistor	C23	925180	10 mfd., 25 volt electrolytic
R1 340810 22,000 ohms, ½ watt resistor R2, R9 397000 15 meg., ½ watt resistor R3, R4 351130 470,000 ohms, ½ watt resistor			condenser
R2, R9 397000 15 meg., ½ watt resistor R3, R4 351130 470,000 ohms, ½ watt resistor	L1	700000	Loop antenna
R3, R4 351130 470,000 ohms, ½ watt resistor	R1	340810	22,000 ohms, ½ watt resistor
	R2, R9	397000	15 meg., ½ watt resistor
R5 340290 150 ohms, ½ watt resistor	R3, R4	351130	470,000 ohms, 1/2 watt resistor
	R5	340290	150 ohms, 1/2 watt resistor
R6 370490 1000 ohms, 1 watt resistor	R6	370490	1000 ohms, 1 watt resistor
R7, R14 351330 3.3 meg., ½ watt resistor	R7, R14	351330	3.3 meg., ½ watt resistor
R8 390190 0.5 meg. volume control	R8	390190	0.5 meg. volume control
R10 351050 220,000 ohms, ½ watt resistor	R10	351050	220,000 ohms, ½ watt resistor
R11 340010 10 ohms, ½ watt resistor	R11	340010	
R12 340050 15 ohms, ½ watt resistor	R12		
R13 390180 0.5 meg. volume control (sets below	R13	390180	
8,767,450), or			
R13 390014 2 meg. volume control (sets 8,767,450	R13	390014	
and higher)			
R15 340410 470 ohms, ½ watt resistor		340410	
R16 351050 220,000 ohms, ½ watt resistor	R16	351050	
(sets below 8,767,450), or			
R16 340970 100,000 ohms, ½ watt resistor	R16	340970	
C 8 IS COMPOSED OF TWO (sets 8,767,450 and higher)			
C 8 IS COMPOSED OF TWO (sets 8,767,430 and higher) PARTS, A TRIMMER 8 A FIXED CONDENSER. 50Lest			

