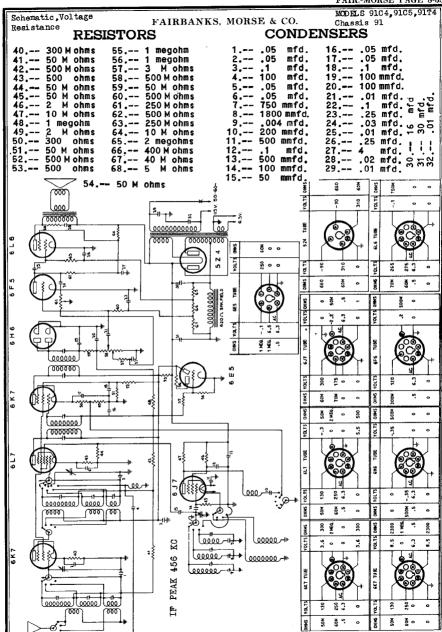


Fairbanks Morse & Co.			
	Model: 91C4	Chassis:	Year: Pre October 1937
	Power:	Circuit:	IF:
	Tubes:		
	Bands:		
Resources			
Riders 8 (VIII) FAIR MORSE 8-33			
Riders 8 (VIII) FAIR MORSE 8-34			



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MODELS 9104,9105,9174

Chassis 91 Socket. Trimmers Alignment, Data

FAIRBANKS, MORSE & CO.

NOTE - All adjustments should be made with the volume control "full on". 7.-Any desired vertation in signal strength should be obtained by adjusting the output of the signal generator.

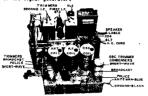


FIGURE 4 TOP VIEW OF THE MODEL 91 CHASSIS

INTERMEDIATE FREQUENCY ALIGNMENT

- Turn the gang condenser to maximum capacity (fully meshed). Band switch on broadcast position.
- Supply a 456 kilocycle signal from the signal generator to the grid of the first detector tube through a .1 Mfd. condenser con-nected in series with the signal generator lead.

WANNING

The lange signs should be received at approximately 17 measures are should be seen at igned to the lange from the dist. If not, the oscillator that be backed out until the correct light is received at 18 measures and the lange at approximate and received at 18 measures and the lange at approximate and received at 18 measures and the lange at approximate and received at 18 measures and the lange at approximate and received at 18 measures and the lange at approximate and received at 18 measures and the lange at approximate and received at 18 measures and the lange at approximate and received at 18 measures and the lange at approximate and received at 18 measures and the lange at approximate and received at 18 measures and the lange at approximate and received at 18 measures and the lange at approximate and received at 18 measures and the lange at approximate and received at 18 measures and the lange at approximate and received at 18 measures and the lange at approximate and received at 18 measures and the lange at approximate and received at 18 measures and r

urg 4.

The oscillator, adjustable, series padding condensers are used for padding condenser, and scillator tabe, switch contacts, the fixed reaching the scillator at the low frequency end of each beaut in the low frequency end of each beaut in the scillator at the low frequency end of each beaut in the padding condenser may be adjusted from the top of the chassis through the scillator at the low frequency end of each beaut in padding condenser may be adjusted from the top of the chassis through the scillator at the since a fixed mice and enderser is in a padding condenser adjustment, the going condenser is not padding condenser adjustment, the going condenser is padding condenser adjustment, the going condenser the scillator at the scillator a

- 3.- Supply a 1500 kilocycle signal from the signal generator to the antenna lead of the receiver through a standard dummy antenna or a 200 Marid. (,0002 Mrd,) condenser, connected in series with the signal generator lead.
- 4.- Adjust the broadcast band oscillator trimmer condenser (Figure 4) for maximum output with minimum input from the signal generator, flom adjust the broadcast band radio frequency and entenns stage trimmers for maximum output.
- 5.- Tune the receiver to 600 kilocycles.
- 6.- Supply a 600 kilocycle signal to the antenna of the receiver through the same connections as previously used.
- 7.- Adjust the broadcast band oscillator padding condenser (top of chassis, see Figure 4) for maxiaum output with minimum input from the signal generator, at the same time rocking that tuning condenser back and forth across the signal to insure the peak of great-est intensity.
- Check at 1500 kilocycles and then at 600 kilocycles. Make any ad justments that are necessary to obtain satisfactory calibration.

- 1.- Turn the band selector switch to the police band (center) position.
- 2.- Tune the receiver to 5.4 megacycles.
- 3.- Supply a 5.4 megacycle signal from the signal generator to the antenna lead of the receiver through a 400 ohm carbon resistor (dumay antenna), connected in series with the signal generator lead.
- 4.- Adjust the police band oscillator trimmer condenser (Figure 4) for maximum output with pinimum input from the signal generator, then adjust the police band radio frequency and antenna stage trimmers for maximum output.
- 5.- Tune the receiver to 1.8 magacycles.
- Supply a 1.8 megacycle signal to the receiver through the same connections used on the previous adjustment.

- Adjust the police band oscillator pedding condenser (top of chassis, see Figure 4) for maximum output with minimum input from the signal generator, at the same time roaking the tuning condenser back and forth across the signal to insure the peak of greatest intensity.
- 8.- Check at 5.4 megacycles and then at 1.8 megacycles and make any adjustments that are necessary to obtain satisfactory calibration.

SHORT WAVE BAND

- 1.- Turn the band selector switch to the shortwave (clockwise) position.
- 2 Tune the receiver to 18 memacycles.
- Supply an 18 megacycle signal from the signal generator to the an-tenna lead of the receiver through a 400 ohn carbon resistor (dummy antenna), connected in series with the signal generator lead.
- 4.— Adjust the short wave band oscillator trimmer condenser (in Figure A) for maximum output with minimum input from the signal generator, trimmers for maximum output, at the came time rooting the tuning condenser back and forth across the signal to insure the peak of greatest intensity.
- 5.- The 6 megacycle signal should be received near 6 megacycles on the dial. If the signal is not received check the oscillator tube, switch connections, the fixed padding condenser and the coils. No adjustment is required at this point.
- 6.— Check and, if necessary, readjust all three stages for maximum output with minimum input from the signal generator.

L F. TRANSFORMER 1.- Turn the band selector switch to the broadcast (clockwise) position. Fig. 8148 2.- Turn the receiver to 1500 kilocycles. Grid Return Crick Grid (Top) Create

STANDARD DMA

RESISTOR AND CONDENSER COLOR CODE

RESISTORS

The BODY COLOR represents the FIRST FIGURE of the resistance value The END COLOR represents the SECOND FIGURE of the resistance value The DOT COLOR represents the NUMBER OF CIPHERS following the First two figures

MICA CONDENSERS

(Capacity in Micro-Microfarads)

The FIRST DOT on the condenser represents the FIRST FIGURE of the capa-ety Research BOT on the condenser represents the SECOND FIGURE of the capa-

The SECOND DOT on the condenser represents the SECOND FIGURE OT THE CADE-city

The THIRD DOT on the condenser represents the NUMBER OF CIPHERS follow-ling the first two figures.

The colors on the condensers should be read from left to right with the condenser in an upright position.

POWER TRANSFORMER