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OWNER'S MANUAL

**ALL TRANSISTOR
RADIO**

SAPPHIRE I by **Bendix**

CUSTOM BUILT
for

VOLKSWAGEN

KARMANN-GHIA

and

VOLKSWAGEN-TRANSPORTER

Push-Button Tuning

THE **Bendix** CORPORATION • BENDIX RADIO DIVISION
AUTOMOTIVE PRODUCTS DEPARTMENT • BALTIMORE 4, MD.

OPERATING INSTRUCTIONS

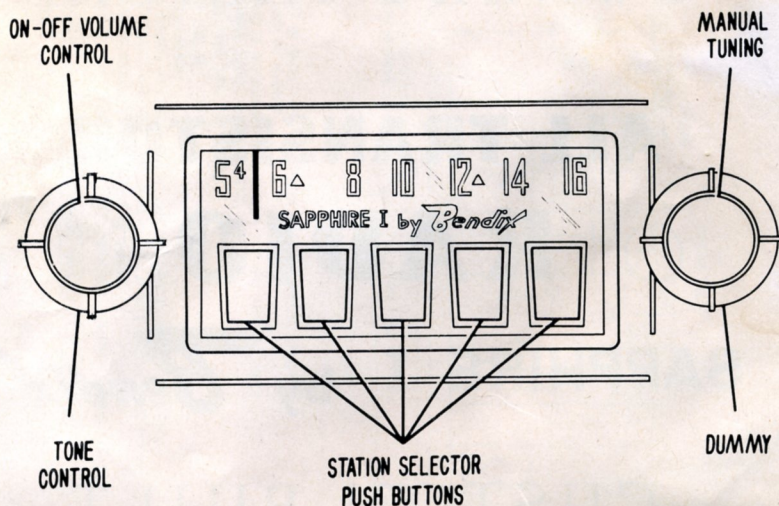


FIG. 1

CIVIL DEFENSE SYMBOLS (Fig. 1)

In the event of a national emergency when broadcast stations must leave the air, civil defense information will be broadcast by the CONELRAD plan. To hear such information, tune your car radio to 640 or 1240 KC indicated by the civil defense symbol ▲ on the dial.

ON-OFF SWITCH AND VOLUME CONTROL. The on-off switch and volume control are combined and are operated with the left-hand knob.

TONE CONTROL. Turn the tone control fully clockwise for voice position; mid-position for music; fully counterclockwise for bass.

TO TUNE STATIONS MANUALLY, turn the right-hand knob (Fig. 1) either left or right.

PUSH-BUTTON TUNING is accomplished by firmly pressing one of the push-buttons which automatically selects the station for which it was set. (See Fig. No. 2 **TO SET PUSH BUTTONS.**)

ANTENNA. Radio performs best with antenna fully extended.

STATION PUSH-BUTTON ADJUSTMENT

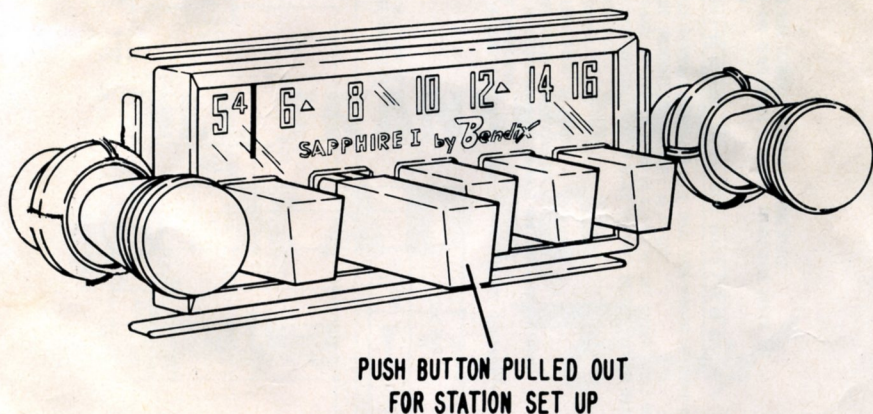
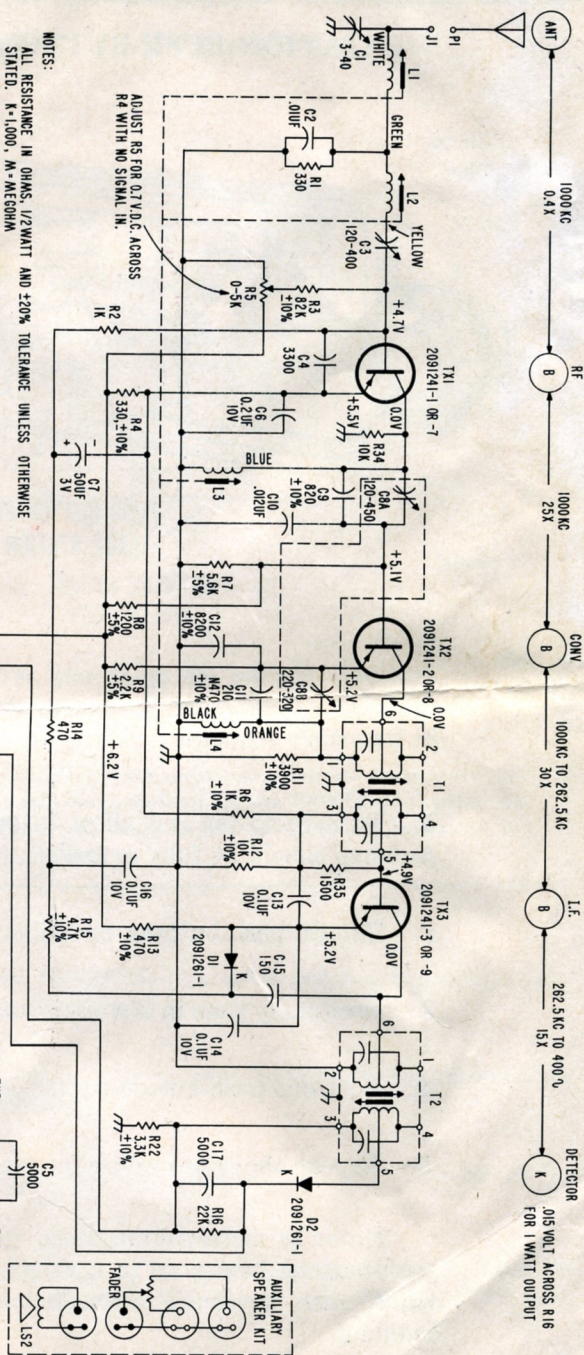


FIG. 2

Stations may be set up in any order. However, for convenience in remembering, it is suggested that stations be set up in frequency sequence.

1. Turn radio on and allow to operate for fifteen minutes. Antenna should be fully extended.
2. Unlock push-buttons by pulling them out. (See Fig. 2)
3. Accurately tune in a station with the manual tuning knob.
4. Lock one push-button to that station by pushing firmly in.
5. Repeat above procedure for remaining push-buttons.

Note: In metropolitan areas, it is recommended that the push-buttons be set up in a shielded place where signals are weak, such as under a viaduct or in a steel-constructed building.



NOTES:

ALL RESISTANCE IN OHMS, 1/2 WATT AND $\pm 20\%$ TOLERANCE UNLESS OTHERWISE STATED. R-1,000, M-MEGOHM.
ALL CAPACITANCE IN MICROMICROFARADS, 100 VOLTS MIN. AND $\pm 20\%$ TOLERANCE UNLESS OTHERWISE STATED. CMW-GUARANTEED MIN. VALUE.
TUNING RANGE FROM 540 KC TO 1600 KC
I.F. FREQUENCY 262.5 KC

VOLTAGE MEASUREMENTS:

1. ALL DC VOLTAGES MEASURED WITH A 20,000 OHM/VOLT METER, NO SIGNAL INPUT.
2. ALL AC VOLTAGES MEASURED WITH AN AC V.I.X.M., AT FULL VOLUME, 1 WATT OUTPUT.
3. ALL VOLTAGES MEASURED WITH RESPECT TO CHASSIS.
4. ALL VOLTAGES MEASURED WITH ± 1.2 VOLTS INPUT WITH NEGATIVE TERMINAL GROUND.

NO UNGROUNDED AC POWERED TEST EQUIPMENT SHOULD EVER BE USED.

DIAMY ANTENNA:

30 0UF SERIES AND 20 0UF SHUNT AT ANTENNA SOCKET, 0.1 0UF SERIES TO TRANSMISSION BASE ELEMENTS FOR GAIN MEASUREMENTS.

