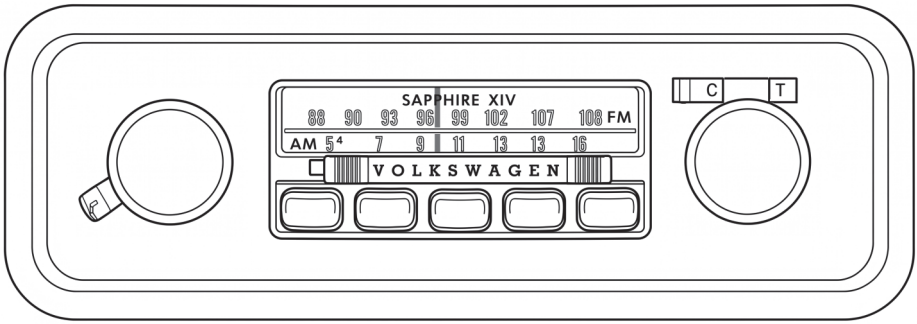
OWNER S MANUAL

ALL TRANSISTOR AM-FM RADIO SAPPHIRE XIV BY MOTOROLA



CUSTOM BUILT
for
VOLKSWAGEN

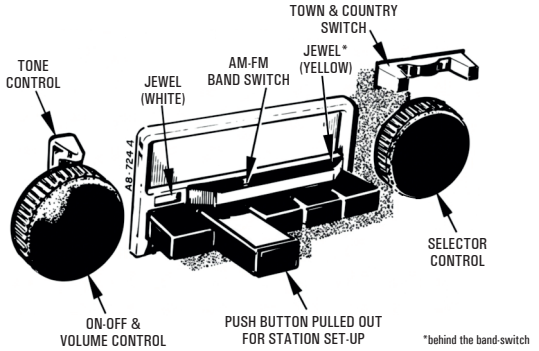
Push-Button Tuning

MOTOROLA INC., 9401 W. GRAND AVE., FRANKLIN PARK, ILL.

Part No. 68P43316A41-B **(1VW2109)** **Printed in U.S.A.**

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OPERATING INSTRUCTIONS



ON-OFF SWITCH AND VOLUME CONTROL. Turn ON-OFF control clockwise to switch radio on. To increase volume, continue turning ON-OFF control clockwise. To switch radio off, turn ON-OFF control to its extreme counter-clockwise position.

TONE CONTROL. Turn the tone control fully clockwise for voice, to mid-position for music, and fully counter-clockwise for bass.

AM-FM BAND SWITCH. Select desired broadcast band (AM or FM) with BAND switch. For AM reception, push BAND switch to the right so that letters "AM" are visible. For FM reception, push BAND switch to the left so that letters "FM" are visible.

STATION SELECTION. Push the BAND switch to desired broadcast band (AM or FM). Then tune in desired station either by turning SELECTOR control or by pressing push-button preset to desired station. (To set push-buttons, see paragraph entitled "SETTING PUSH-BUTTONS.")

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ANTENNA HEIGHT. For best FM reception, adjust antenna height to approximately 30 inches. The 30 inch antenna height will also provide good AM reception in most areas.

TOWN & COUNTRY SWITCH. FM reception in areas close to a strong local station or stations, can be improved by pushing in on the "T" side of the TOWN & COUNTRY switch. For normal reception push in on "C" side of switch.

IMPORTANT: Switch should be returned to "C" position when leaving areas with strong local stations or weak reception may result.

SETTING PUSH-BUTTONS. Each push-button can be set to one station only—either an AM or an FM station. This provides a total of five stations that can be selected by push-button operation. These five stations can be five AM stations, five FM stations or any combination of five AM and FM stations—for example, four AM and one FM, or two AM and three FM. Stations can be set up in any order; however, for convenience in remembering, stations should be set up in the order of their frequencies. Set push-buttons as follows:

1. Turn radio on and allow to operate for a few minutes.

2. Extend antenna height to 30 inches.

3. Position BAND switch to either AM or FM, depending upon which broadcast band the desired station is on.

4. Pull out push-buttons. (See Figure)

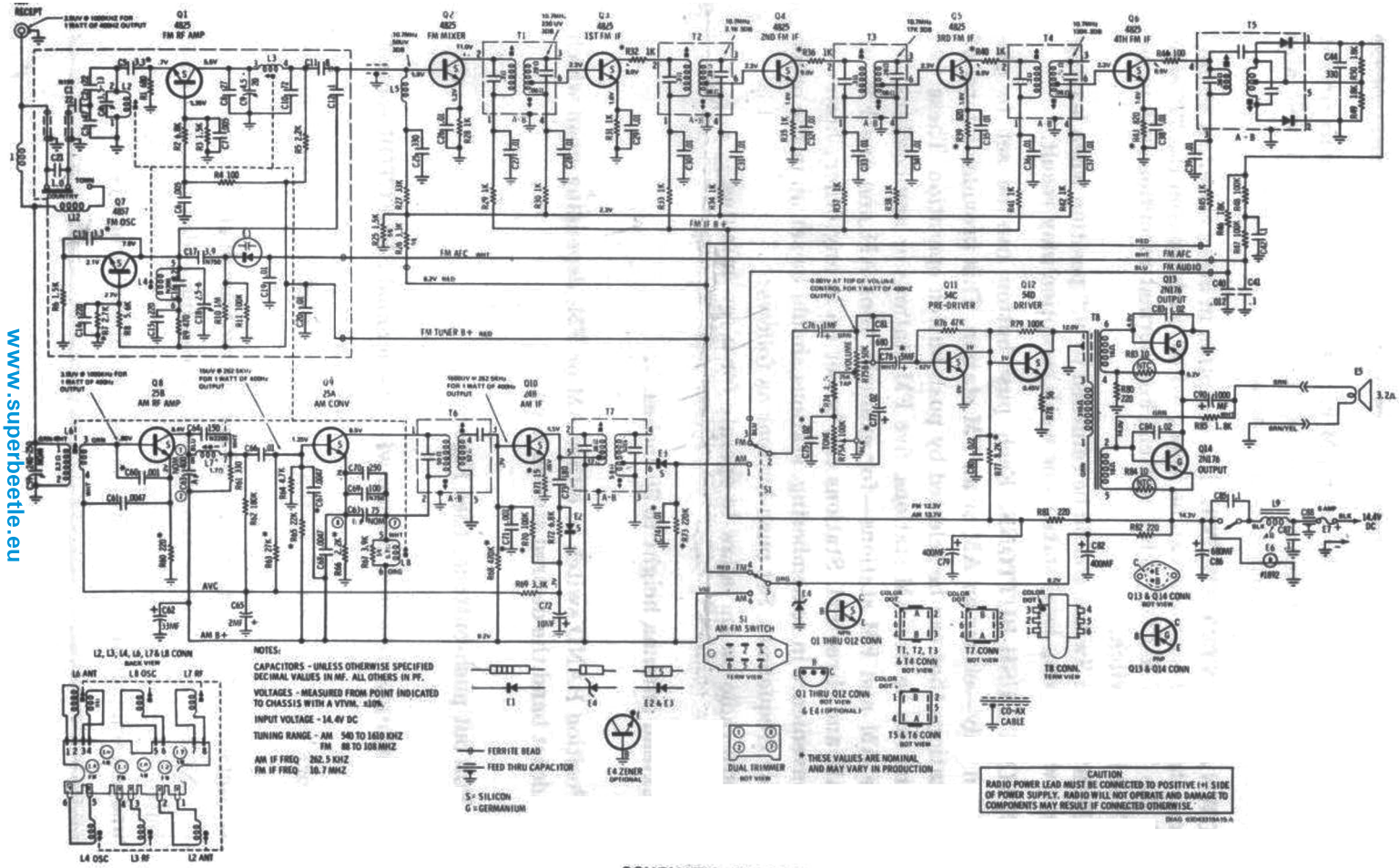
5. Accurately tune in a station with the manual SELECTOR control.

6. Lock one push-button to that station by pushing button in firmly.

7. Repeat Steps 3 to 6 for each of remaining four 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 building using steel in its structure.

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NOTES:

CAPACITORS - UNLESS OTHERWISE SPECIFIED DECIMAL VALUES IN MF. ALL OTHERS IN PF.

VOLTAGES - MEASURED FROM POINT INDICATED TO CHASSIS WITH A VTVM. ±10%.

INPUT VOLTAGE - 14.4V DC

TUNING RANGE - AM 540 TO 1610 KHZ
FM 88 TO 108 MHZ

AM IF FREQ 262.5 KHZ
FM IF FREQ 10.7 MHZ

S = SILICON
G = GERMANIUM

* THESE VALUES ARE NOMINAL AND MAY VARY IN PRODUCTION

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

SCHEMATIC DIAGRAM

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