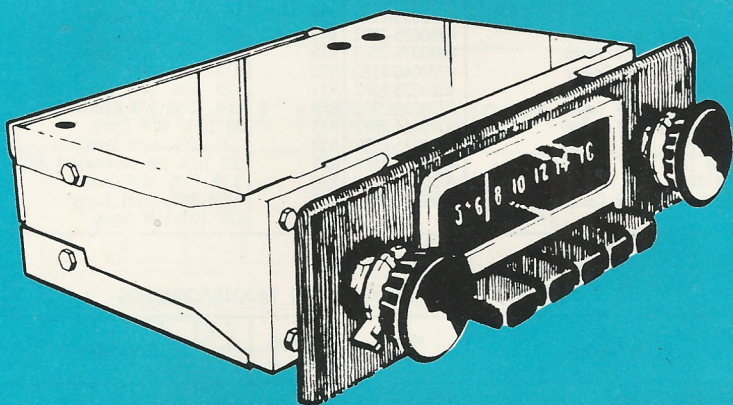


CAR RADIO OWNERS MANUAL

*MODEL 1071
AM-PUSH BUTTON*



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GENERAL INFORMATION

BATTERY VOLTAGE AND POLARITY. This BENDIX car radio model is for connection to a 12 Volt minus terminal to ground electrical system only. If operation on a 6 Volt minus terminal to ground system is required, a DC converter must be connected in series with the A-lead.

FUSE. A 2 AMP. fuse is installed in the fuse cartridge of the battery connection lead.

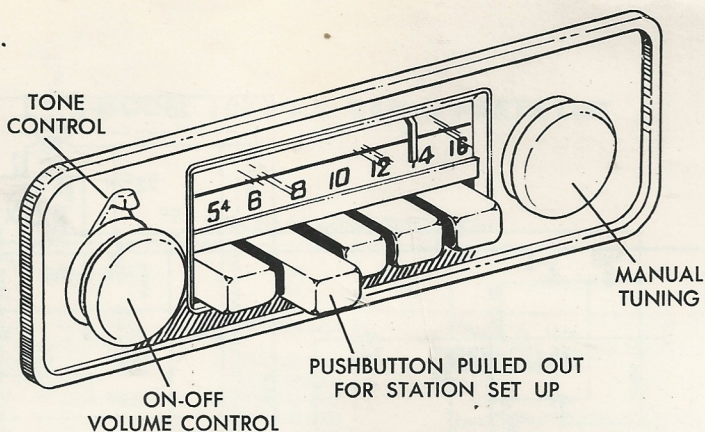
DIAL LAMP. The dial lamp is accessible after removing the dial glass and dial back panel. While performing this work the dial pointer must be located in the left end position.

LOUDSPEAKER. The correct loudspeaker impedance is between 3 and 4 Ohms.

BENDIX loudspeakers are designed for optimum performance with BENDIX radios and connections should be made according to the applicable installation instruction. A wide selection of accessory speakers for various application is available. Use an original BENDIX fader control if two (2) loudspeakers are to be installed. However, two (2) 8 Ohms speakers can be used without fader control if connected in parallel.

ANTENNA. For best performance use the BENDIX recommended antenna type.

The antenna trimmer should be properly adjusted for best AM reception. This is especially important if an antenna extension cable or none- BENDIX antenna is used.



OPERATING INSTRUCTIONS

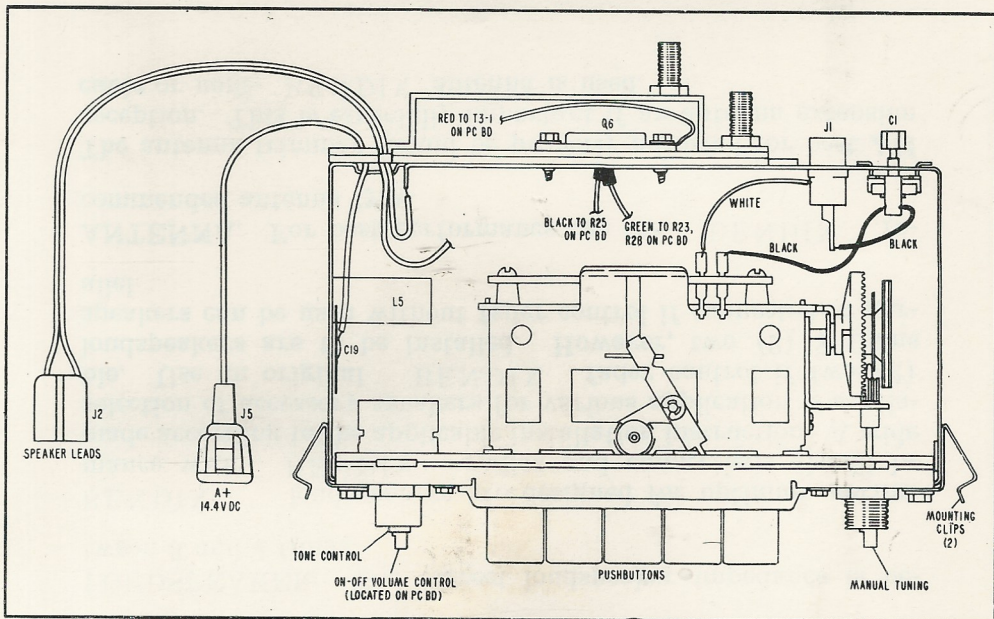
THE ON-OFF SWITCH AND VOLUME CONTROL are combined on the left-hand knob. Initial clockwise rotation turns radio on, further rotation increases volume.

THE TONE CONTROL can be adjusted to suit the listener's preference. Maximum treble is obtained when the tone control knob is turned fully clockwise. As the knob is turned counterclockwise, bass response increases, reaching maximum at approximately 25-percent rotation with no loss in treble. Further counterclockwise rotation will reduce the treble, but will not affect bass response.

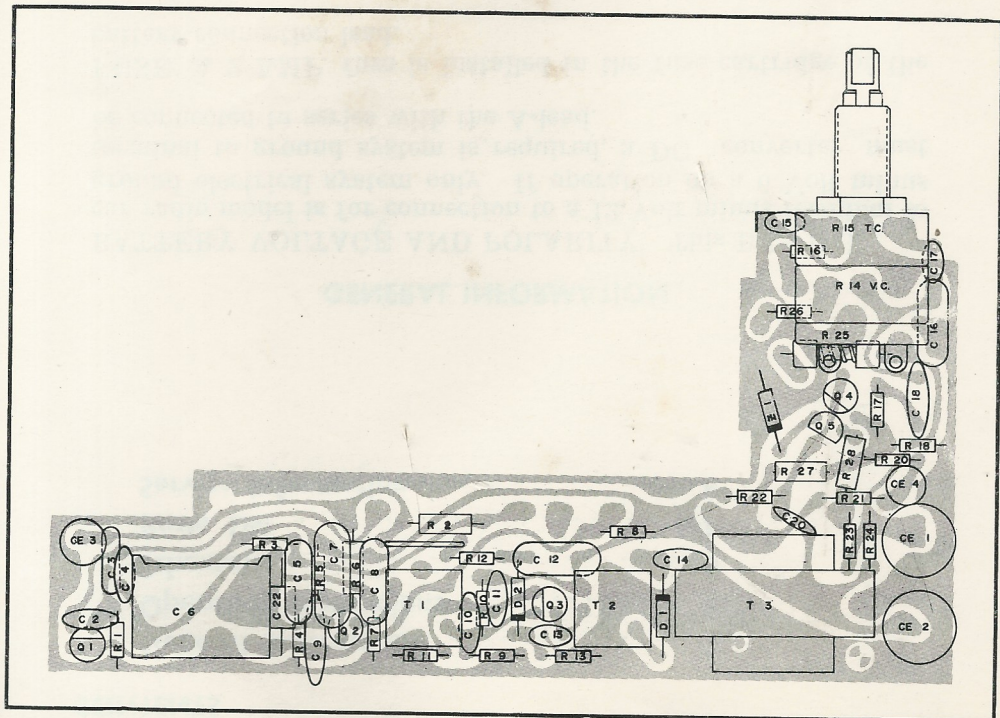
THE ANTENNA must be fully extended if the radio is to give the best all around performance. It is equally important the antenna trimmer be properly adjusted (See Separate Instructions.)

TUNING — Broadcast stations may be tuned in by either the manual tuning knob or by the push buttons.

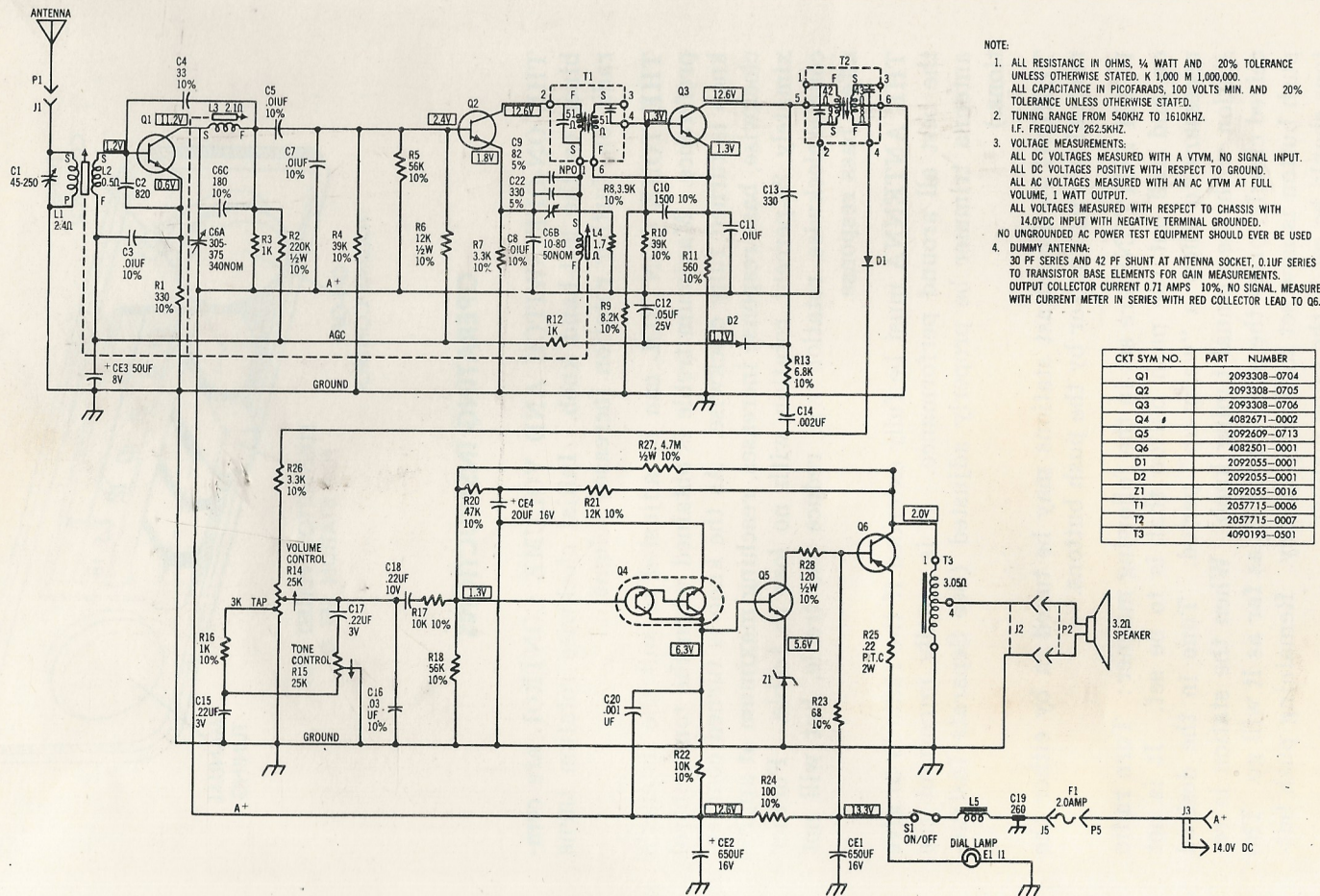
PUSH BUTTONS are set in the following manner: Turn radio on and pull out the push button that is to be set. It is not necessary to allow a "warm-up" period. Tune in the desired station with the manual tuning knob. When the station is received clearly, press the push button in as far as it will go. The push button is now set to that frequency. Remaining push buttons should be set in the same manner.



CHASSIS LAYOUT TOP VIEW



PRINTED CIRCUIT BOARD, COMPONENT SIDE



NOTE:

1. ALL RESISTANCE IN OHMS, ¼ WATT AND 20% TOLERANCE UNLESS OTHERWISE STATED. K 1,000 M 1,000,000. ALL CAPACITANCE IN PICOFARADS. 100 VOLTS MIN. AND 20% TOLERANCE UNLESS OTHERWISE STATED.
2. TUNING RANGE FROM 540KHZ TO 1610KHZ. I.F. FREQUENCY 262.5KHZ.
3. VOLTAGE MEASUREMENTS: ALL DC VOLTAGES MEASURED WITH A VTVM, NO SIGNAL INPUT. ALL DC VOLTAGES POSITIVE WITH RESPECT TO GROUND. ALL AC VOLTAGES MEASURED WITH AN AC VTVM AT FULL VOLUME, 1 WATT OUTPUT. ALL VOLTAGES MEASURED WITH RESPECT TO CHASSIS WITH 14.0VDC INPUT WITH NEGATIVE TERMINAL GROUNDING. NO UNGROUNDING AC POWER TEST EQUIPMENT SHOULD EVER BE USED.
4. DUMMY ANTENNA. 30 PF SERIES AND 42 PF SHUNT AT ANTENNA SOCKET, 0.1UF SERIES TO TRANSISTOR BASE ELEMENTS FOR GAIN MEASUREMENTS. OUTPUT COLLECTOR CURRENT 0.71 AMPS 10%, NO SIGNAL. MEASURE WITH CURRENT METER IN SERIES WITH RED COLLECTOR LEAD TO G6.

CKT SYM NO.	PART	NUMBER
Q1		2092308-0704
Q2		2092308-0705
Q3		2092308-0706
Q4	#	4082671-0002
Q5		2092609-0713
Q6		4082501-0001
D1		2092055-0001
D2		2092055-0001
Z1		2092055-0016
T1		2057715-0006
T2		2057715-0007
T3		4090193-0501

SCHEMATIC DIAGRAM

MODEL 1071 AM RADIO PARTS LIST

CAPACITORS

Symbol Number	Description	Part Number	Symbol Number	Description	Part Number
C1	Antenna Trimmer, 45-250 Pf	219083-0012	C14	Ceramic 2000pf \pm 20%, 100V	2093135-0726
C2	Ceramic, 820pf 20%, 100V	2093135-0748	C15	Ceramic .22uf + 80%, 3V	2090150-0721
C3	Mylar .01uf 10%, 25V	2094323-0982		- 20%,	
C4	Ceramic 33pf 10%, 100V	2093135-0728	C16	Mylar .03uf \pm 10%, 25V	2094323-0095
C5	Mylar .01uf 10%, 25V	2094323-0708	C17	Ceramic .22uf + 80%, 3V	2090150-0721
C6A,B,C	RF. OSC. Trimmer, A-305-375pf B-10-80pf C-180pf.	2092422-0020		- 20%,	
C7	Mylar .01uf 10%, 50V	2090207-0052	C18	Ceramic .22uf + 80%, 12V	2090150-0734
C8	Mylar .01uf 10%, 25V	2094323-0741		- 20%,	
C9	Ceramic 82pf 5%, 100V	2093229-0040	C19	Cap. Spark Plate	2093050-0710
C10	Ceramic 1500pf 10%, 100V	2056980-0024	C20	Ceramic, .001uf 20%,	2093135-0773
C11	Ceramic .1uf + 80%, 10V	2090150-0004	C22	Polystyrene 330pf 5%	4080884-0009
	- 20%,		CE1	Electrolytic, 650uf 16V	4090037-0009
C12	Mylar .05uf 20%, 25V	2094323-0712	CE2	Electrolytic, 650uf 16V	4090037-0009
C13	Ceramic 330pf 20%, 100V	2093135-0793	CE3	Electrolytic 50uf 8V	4090037-0010
			CE4	Electrolytic 20uf 16V	4090037-0011

RESISTORS

Symbol Number	Description	Part Number	Symbol Number	Description	Part Number
R1	330 10% $\frac{1}{4}$ W Comp.	4090035-2331	R14,R15,S1	Dual Control And SW. Vol. 25K	
R2	220K 10% $\frac{1}{2}$ W Comp.	4090040-2224		Tap @ 3K Tone 25K	4090192-0001
R3	1K 10% $\frac{1}{4}$ W Comp.	4090035-2102	R16	1K 10% $\frac{1}{4}$ W Comp.	4090035-2102
R4	39K 10% $\frac{1}{4}$ W Comp.	4090035-2393	R17	10K 10% $\frac{1}{4}$ W Comp.	4090035-2103
R5	56K 10% $\frac{1}{4}$ W Comp.	4090035-2563	R18	56K 10% $\frac{1}{4}$ W Comp.	4090035-2563
R6	12K 10% $\frac{1}{2}$ W Comp.	4090040-2123	R20	47K. 10% $\frac{1}{4}$ W Comp.	4090035-2473
R7	3.3K 10% $\frac{1}{4}$ W Comp.	4090035-2332	R21	12K 10% $\frac{1}{4}$ W Comp.	4090035-2123
R8	3.9K 10% $\frac{1}{4}$ W Comp.	4090035-2392	R22	10K 10% $\frac{1}{4}$ W Comp.	4090035-2103
R9	8.2K 10% $\frac{1}{2}$ W Comp.	4090035-2822	R23	68 10% $\frac{1}{4}$ W Comp.	4090035-2680
R10	39K 10% $\frac{1}{4}$ W Comp.	4090035-2393	R24	100 10% $\frac{1}{4}$ W Comp.	4090035-2101
R11	560 10% $\frac{1}{4}$ W Comp.	4090035-2561	R25	.22 10% 2W Wirewound. PTC.	2090948-0007
R12	1K 10% $\frac{1}{4}$ W Comp.	4090035-2102	R26	3.3K 10% $\frac{1}{4}$ W Comp.	4090035-2332
R13	6.8K 10% $\frac{1}{4}$ W Comp.	4090035-2682	R27	4.7M 10% $\frac{1}{2}$ W Comp.	4090040-2475
			R28	120 10% $\frac{1}{2}$ W Comp.	4090040-2121

DIODES, TRANSISTORS, AND TRANSFORMERS

Symbol No.	Description	Part No.	Symbol No.	Description	Part No.
Q1	RF, NPN, Silicon	2093308-0704	D1	Diode, Germanium	2092055-0001
Q2	Converter, NPN, Silicon	2093308-0705	D2	Diode, Germanium	2092055-0001
Q3	IF, NPN, Silicon	2093308-0706	Z1	Diode, Zener, 5.6 V	2092055-0016
Q4	Pre Driver, NPN, Silicon	4082671-0002	T1	IF, Input 262.5 KHZ	2057715-0006
	Integrated Circuit		T2	IF, Output 262.5 KHZ	2057715-0007
Q5	Driver, NPN, Silicon	2092609-0713	T3	Output, Audio	4090193-0501
Q6	Audio, Output, NPN, Germanium	4082501-0001			

MODEL 1071 AM RADIO PARTS LIST

MISCELLANEOUS ELECTRICAL

Symbol No.	Description	Part No.	Symbol No.	Description	Part No.
J1	Connector, Antenna Jack	2057474-0701	L5	Choke "A" Line	4090161-0501
	Tuner Assembly Without	4090166-0501	P5	Fuse Holder And Line Assy	4090209-0501
J2	Pushbuttons	4090199-0501	F1	Fuse, 2 AMP	2091811-0007
J5	Cable Ay, Speaker	2094348-0547			
I1	Cap And 'A' Lead Assembly	4090196-0001		Lamp Socket And Pilot Light Lead	4090181-0501
	Lamp.				

MISCELLANEOUS PARTS

Description	Part Number	Description	Part Number
Printed Ckt Board Ass'y, Complete— with Components	4090195-0501	Shaft Ass'y, Manual drive	4090182-0501
Heat Dissipator (Q6 Mounting Plate)	4090178-0001	Shield, Cover, Bottom, Fish Paper	4082596-0001
Plate Front, Chassis	4090165-0001	Washer,, Spring, Manual Tuning	295525-0011
Wrap, Around	4090169-0001	Screw S-T #4 Philips Head	4090168-0001
Bushing, Plastic Transistor Mounting	2090026-0001	Screw S-T #4	2057589-0705
Insulator, Mica, for Q6	4090167-0001	Bolt Mach, M6 x 1	4090163-0001
Cover, Top	2090882-0003	Screw S-T #8, Covers To Wrap	2092150-0704
Cover, Bottom	4090167-0001	Nut, Hex. M10 x 1 (for MT & V.C.)	4090164-0004
Push Button	4080215-0001	Screw S-T #8	2092151-0001
Bushing, Manual Shaft M10 x 1	4090157-0001	Ring, Retaining (for MT Shaft)	2093224-1208
		Seal, Light	4082638-0001
		Filter, Dial Lamp	4090162-0001