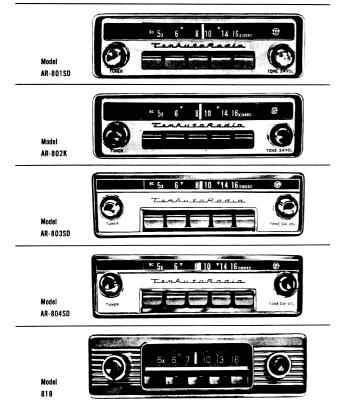


AUTO RADIO SERVICE MANUAL

AR-800 SERIES AND 818 AUTO RADIO



General Features

Model AR-801SD, AR-802K, AR-803SD, AR-804SD and 818 are all-transistorized superheterodyne deluxe 5-pushbutton auto radios; these receivers operate from 12 volts and negative or positive grounding electrical systems. (Model AR-802K operates from negative ground only.)

Containing 8 transistors and 2 diodes, they are designed for universal installation in a variety of automobiles.

Electrical Features

A.	Frequency Range:	535~1605 Kc		
B.	Intermediate Frequency :	455 Kc		
C.	Sensitivity :	Less than 26 dB.		
D.	S/N Ratio:	More than 21 dB.		
E.	Selectivity :	More than 18 dB.		
F.	I. F. Rejection Ratio:	More than 30 dB.		
G.	Image Rejection Ratio:	More than 46 dB.		
H.	Electrical Fidelity:	Less than -6 dB at 150 c/s		
		Less than -16 dB at 400	0 c/s	
I.	Output Power:	More than 2.5 W		
J.	Power Consumption :	0.26 Ampere (Ref. Output Power 0.5W)		
К.	Speaker :	AR-801SD & AR-803SD61/2* (16cm) 8Ω		
		AR-802K & 8185*×7* (12×18cm) 8Ω		
		AR-804 SD	······5* (12cm) 8	BΩ
L.	Shaft Centers:	AR-801SD & AR-802K:	4 ²⁹ /32* (124mm))
		AR-803SD, AR-804SD &	818 5%2* (130	mm)
М.	Transistor & Diode used:	R. F. Amplifier	2SA275	1 pce.
		Converter	2SA273	1 pce.
		I. F. Amplifier	2SA274	2 pcs.
		A. F. Amplifier	2SB120	1 pce.
		Driver	2SB120	1 pce.
		Power Amplifier	2SB466	2 pcs.
		Detector	1S446	1 pce.
	-	A. G. C.	1S446	1 pce.
N.	Size :	Tuner Unit 6% (wid	le) 2" (high) 4	¾* (deep)

Composition

AR - 801SD	AT-801-B 801-AC SB-401 401-AC	Tuner Unit Accessories for Tuner Unit Speaker Unit Accessories for Speaker Unit
AR - 802K	AT-802-B 802-AC SB-415	Tuner Unit Accessories for Tuner Unit Speaker Unit
<u> </u>	402-AC	Accessories for Speaker Unit

Connection Instruction in Alignment

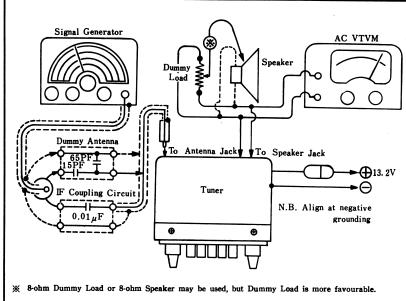


Fig. 7

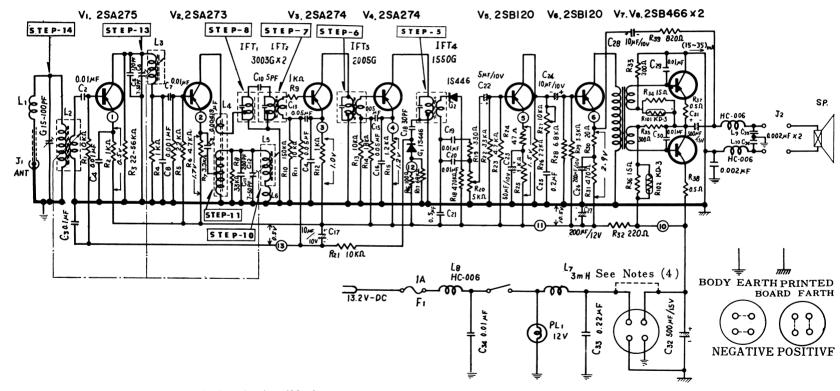
Alignment Procedure Details

STEP Ref Fig. 6 & 7.

STEP	Ref Fig. 6 & 7.							
1.	Connect an AC VTVM across 8-ohm dummy load or 8-ohm speaker. Maintain 3 volts (full scale) on AC VTVM. Refer to Fig. 7.							
2.	Set volume to maximum and tone to treble. Supply voltage							
3.	Connect signal generator ground terminal and tuner chassis. Connect signal generator output terminal and antenna jack through 0.01μ F Capacitor. Refer to Fig. 7.							
	While proceeding with alignment, attenuate signal generator output to maintain 1 to 2 volts on AC VTVM at all times to prevent overloading.							
	GENERATOR CONNECTION	GENERATOR FREQUENCY (400 c/s 30% mod.)	TUNER SET TO	ADJUST	REMARKS			
4.	Antenna Jack thru 0.01µF Capacitor	455Kc	1000Кс арргох.		Attenuate signal generator output to maintain 1 to 2 volts on AC VTVM.			
5 to 8.	_″_	_"_		IFT4=STEP-5 IFT3=STEP-6 IFT2=STEP-7 IFT1=STEP-8 Refer to Fig. 6	Adjust IFT core for maximum output.			
9.	_″_	_″_		_″_	Repeat STEPS 5 to 8 until no further increase.			
10.	Antenna Jack thru Dummy Antenna (15P- 65P). Refer to Fig. 7.	1 6 30Kc	Hi end stop	C12=STEP-10 Refer to Fig. 6	Adjust for maximum output.			
11.		530Kc	Lo end stop	L4=STEP-11 Refer to Fig. 6	_//_			
12.	Repeat STEPS 10 and 11.							
13.		1400Kc	Tune in S.G. frequency (1400Kc)	C6=STEP-13 Refer to Fig. 6				
14.	with radio and a If any suitable	weak station arou antenna installed station is not and noise may b	in car. tuned in,	Cl (Antenna Trimmer) STEP-14 Refer to Fig. 6	Adjust for maximum output or noise.			

Notice: It is desirable to set polarity to negative ground to prevent from short in case of repair and check-out for the receivers with polarity reversing plug.

TEN MODEL AR800-818



(1) Specified voltage and current values at no signal, supply voltage 13.2 volts.

- (2) Each voltage value measured by high impedance voltmeter is nominal.
- (8) The voltage and current values may vary in production.
- (4) Model AR-802K has no polarity reversing circuit, operating from negative grounding systems only. The dotted line shows its wiring connection.

T5 TEN MODEL AR800-818

TEN AR-800 SERIES & 818

