4.4 Antenna Systems (AS)

Electrical Test Program – Test

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0	Electrolytic capacitor (rear glass noise suppressor C3) Function Model 163		Ignition: OFF Radio (A2): ON Tune radio to weak station reception on AM band Start engine and run at idle. Engine: at idle	No change in radio reception	Capacitor (C3)
2.0	High frequency connection wire from FM/AM amplifier (A2/18) to radio (A2) Continuity Short circuit (inner shielding/signal wire)	_ (→ -@+ →) _	Radio (2): OFF Disconnect antenna cable from radio (A2) and FM/AM amplifier (A2/18), see Figure 1 - model 163 Figure 2 - model 202, 208 Figure 3 model 210.0	< 10 Ω ∞ Ω	Wiring. \Rightarrow 3.0,
3.0	High frequency connection wire from FM/AM amplifier (A2/18) to rear window antenna (A2/32) Continuity Short circuit (inner shielding/signal wire)	(~ ¯@ <u>⁺</u> -)	Radio (A2): OFF Disconnect wire from AM/FM amplifier (A2/18) and rear window antenna (2/32)	< 10 Ω ∞ Ω	Wiring,

4.4 Antenna Systems (AS)

Electrical Test Program – Test

⇒	Test scope	Test connection		Test condition	Nominal value	Possible cause/Remedy
4.0	Radio (A2) Control voltage	₩0 ⊥ - •	A2/18 > — b	Disconnect connector at FM/AM amplifier (A2/18), see Figure 1, 2 or 3 Radio (A2): ON	11 – 14 V	Wiring, Radio (RD), 3.1 23 AD82.60 in WIS
5.0	FM/AM amplifier (A2/18) Current draw	A2/18 ~=́(<u>A</u>) [±] ►	A2) b	Connect ampmeter between (A2/18) and control voltage wire from radio (A2), see Figure 1, 2 or 3 Radio (A2): ON	Model 163: 54 – 64 mA Model 202: 59 – 69 mA Model 208: 65 – 75 mA Model 210: 52 – 80 mA	 A2/18, W0 ground connection ⇒ 6.0, If nominal value is ok, but poor reception quality continues: Swap A2/18 with known good unit and perform 11 Function Test.
6.0	Ground FM/AM amplifier (A2/18)	⊥ ~ @ * →	A2/18	Radio (A2): OFF i Hint: Do not loosen mounting connection on A2/18. Mounting connection also serves as ground.	< 1 Ω	Contact resistance at ground.

Electrical Test Program – Test

Connection diagram Model 163

Figure 1

а	High frequency connection wire from FM/AM
	amplifier to radio (A2)
b	Voltage supply from radio (A2) connector 2 pin 5 for automatic antenna, FM/AM amplifier (A2/18) and sound system amplifier control module
A2/18	FM/AM amplifier
WO	Ground and mounting point



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4.4 Antenna Systems (AS)

Electrical Test Program – Test

Connection diagram

Models 202 as of 01/97, 208 (except 208.465)

The illustration shows connection diagram in model 208, model 202 with rear window antenna is similar.

Figure 2

а	High frequency connection wire from FM/AM
	amplifier to radio (A2)
b	Voltage supply from radio (A2) connector 2 pin 5 for
	automatic antenna, FM/AM amplifier (A2/18) and sound
	system amplifier control module
A2/18	FM/AM amplifier
WO	Ground and mounting point



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Electrical Test Program – Test

Connection diagram Model 210.0



Figure 3

а	High frequency connection wire from FM/AM
	amplifier to radio (A2)
b	Voltage supply from radio (A2) connector 2 pin 5 for
	automatic antenna, FM/AM amplifier (A2/18) and sound
	system amplifier control module
A2/18	FM/AM amplifier
WO	Ground and mounting point