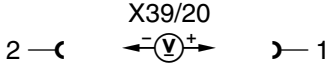


## 7.2 Cellular Telephone (CTEL)

Models 129 and 140, up to M.Y. 1993

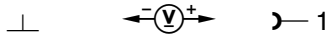
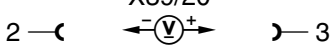
### Electrical Test Program – Speaker Test

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0	<b>Model 129 Speakers</b>		Radio: <b>ON</b> CTEL: <b>OFF</b>	Radio audio is heard through all speakers.	⇒ 2.0
2.0	<b>Model 129 Audio switchover relay module (A35/2) Wiring</b>		Check for proper connection of relay harness.	Radio audio is heard through all speakers.	⇒ 2.1
2.1	Wiring		Ignition: <b>ON</b> Radio: <b>OFF</b> CTEL: <b>ON</b> Press <i>C</i> (clear) to generate an audio tone.	CTEL audio is heard through left front door speaker group (H4/1) and left front speaker (H4/9).	⇒ 2.2
2.2	Voltage supply Circuit 30		Ignition: <b>ON</b> Radio: <b>ON</b> CTEL: <b>ON</b> Do not disconnect X39/20. Take reading from back of connector.	11 – 14 V	Nominal value OK: ⇒ 2.5  Nominal value not OK: Wiring, Fuse (F22/2-1).

## 7.2 Cellular Telephone (CTEL)

Models 129 and 140, up to M.Y. 1993

### Electrical Test Program – Speaker Test

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
2.3	Voltage supply Control voltage		Do not disconnect X39/23. Take reading from back of connector.	11 – 14 V	Nominal value OK: ⇒ 2.5  Nominal value not OK: Wiring.
2.4	Control voltage		Enter 611 Press <i>SND</i> .	< 1 V	Nominal value OK: ⇒ 2.5  Nominal value not OK: 26
2.5	<b>Model 129</b> <b>Audio switchover relay</b> <b>module (A35/2)</b>		Install known good relay.	Audio returns.	Audio: Replace A35/2.  No audio: Replace relay harness.
3.0	<b>Model 129</b> <b>CTEL junction box (X39/11)</b>		Disconnect speaker wire connector (2) from X39/11. Connect test headset to X39/11 at connector 2. Press <i>C</i> (clear) to generate an audio tone.	Audio tone heard over test headset.	Nominal value OK: ⇒ 2.5  Nominal value not OK: ⇒ 3.1
3.1			Connect test headset to test point #2. Press <i>C</i> (clear) to generate an audio tone.	Audio tone heard over test headset.	Nominal value okay: Replace X39/11  Nominal value not OK: 27

## Electrical Test Program – Speaker Test

⇒	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
4.0	<b>Model 140 Speakers</b>		Ignition: <b>ON</b> Radio: <b>OFF</b> CTEL: <b>ON</b> Connect test headset to CTEL speaker harness. Press IDC keys to generate an audio tone.	Keytone audio is heard through headset.	Nominal value OK: Speakers, Wiring.  Nominal value not OK: ⇒ 4.1
4.1	Wiring		Disconnect speaker output wiring from X39/11. Connect to test headset. Press IDC keys to generate an audio tone.	Keytone audio is heard through headset	Nominal value OK: Wiring.  Nominal value not OK: ⇒ 5.0
5.0	<b>Model 140 CTEL junction box (X39/11)</b>		Connect test headset to test point #2. Press IDC keys to generate an audio tone.	Audio tone heard over test headset.	Nominal value OK: Replace X39/11  Nominal value not OK: 27