

Application Note

AN1006-02, 2013-12-26 Test Audio Communication





Notice

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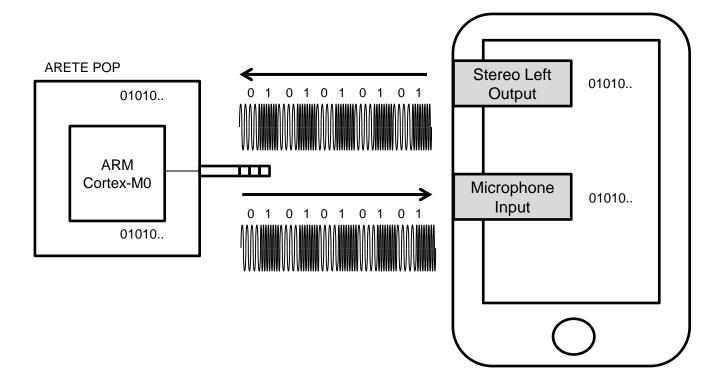
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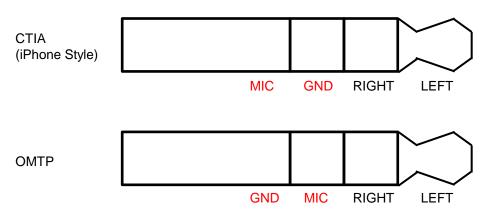
Revision History

Version	Date	Changes
00	2013-07-23	Initial released
02	2013-12-26	Address changed
		Revision history added

ARETE POP used audio interface to communicate with smart phone. ARETE POP is converting binary bit stream to audio wave to transmit data to smart phone vice versa. Some Android smart phone limit microphone input to remove noise from voice. In case some Aroid phone noise remover removes ARETE POP data that makes a failure at connecting ARETE POP to Android Smartphone.



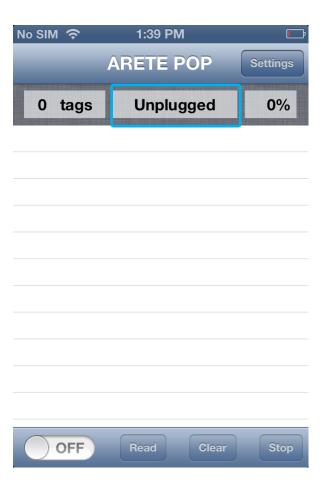
Another cause of failure is plug type. The ARETE POP has a common headset plug. A headset plug has four rings used for left audio output, right audio output, ground and micro phone input. Both left audio output and microphone rings are used for transferring data while right audio output ring is used for powering ARETE POP. iPhone style (CTIA type) plug is widely used. However, some smart phone uses OMTP type headset plug.





When you use ARETE POP, the first thing to do is starting App. Next, insert ARETE POP to smart phone. Then, check message on App.

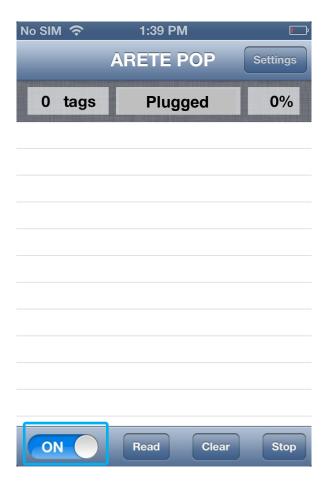
Symptoms	Unplugged still appears when inserting ARETE POP
Possible causes	ARETE POP is not fully inserted. Insert ARETE POP fully.

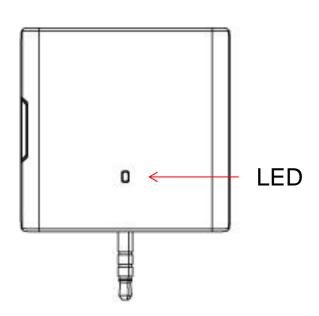




After **Plugged** appears, volume up to 100%. Next, switch button to **ON.** Then, check LED on ARETE POP.

Symptoms	The LED stays ON for just a second after inserting ARETE POP and then becomes OFF again.
Possible causes	ARETE POP is discharged. Recharge the ARETE POP.







After check LED indicator, check message on App.

Symptoms	 Plugged is still appears . LED turns on. Connected is not appears.
Possible causes	 Some smartphone Apps stuck on audio interface or crashed with ARETE POP App. Reboot your smartphone and try again. Smart phone is not support iPhone style headset. Use OMTP to CTIA converter. There is a failure to communicate with smartphone. To analyze audio signal, diagnostic process is needed.





Diagnostic process is only embedded on Android App. Touch **Settings** button, then Settings views appears. Next, select **About**. Then, touch Diagnostic and wait for 100%.



After finishing diagnostic process, send log files to us. Log files are stored at sdcard0\AudioTest in your smartphone.

Desktop\your mobile phone \ sdcard0 \ AudioTest

FER_Galaxy Nexus_20130613162958.csv	Microsoft Excel f
FER_Galaxy Nexus_20130614180107.csv	Microsoft Excel f
LOOPBACK_500_Galaxy Nexus_2013061316364	Microsoft Excel f
LOOPBACK_1000_Galaxy Nexus_201306131636	Microsoft Excel f
LOOPBACK_5000_Galaxy Nexus_201306131636	Microsoft Excel f
LOOPBACK_10000_Galaxy Nexus_20130613163	Microsoft Excel f
LOOPBACK_20000_Galaxy Nexus_20130613163	Microsoft Excel f
TONE_002_Galaxy Nexus_20130613163651.csv	Microsoft Excel f
TONE_004_Galaxy Nexus_20130613163655.csv	Microsoft Excel f
TONE_006_Galaxy Nexus_20130613163658.csv	Microsoft Excel f
TONE_008_Galaxy Nexus_20130613163701.csv	Microsoft Excel f
TONE_010_Galaxy Nexus_20130613163704.csv	Microsoft Excel f
TONE_012_Galaxy Nexus_20130613163707.csv	Microsoft Excel f
TONE_014_Galaxy Nexus_20130613163710.csv	Microsoft Excel f
TONE_016_Galaxy Nexus_20130613163714.csv	Microsoft Excel f
TONE_018_Galaxy Nexus_20130613163717.csv	Microsoft Excel f
TONE_020_Galaxy Nexus_20130613163720.csv	Microsoft Excel f
TONE 022 Galaxy Nexus 20130613163723 csv	Microsoft Excel 4



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