

TECHNICAL NOTE TN-1055 TM8000 Auxiliary I/O Lines State At Power Off

29th July 2005

Applicability	This Technical note applies to both the TM8100 and TM8200 mobile radios.	
1. Information		
	CSO's, dealers and customers may not be aware that when a TM8100 or TM8200 is switched off using the power on/off button, the Auxiliary I/O lines all default to a high state (3v). However the Internal I/O lines will go to a low state. The reason for this is that the Internal I/O lines are connected directly to the FPGA, which remains partially powered, and at this point forces the lines low. The Auxiliary I/O lines are connected through buffer circuitry. This buffer circuitry is switched off, but the default logic state of the outputs of the buffer circuitry is high, which means that the Auxiliary I/O lines will go high. The only exception to this operation is when the Ignition Sense line is used. In that case, the radio is fully powered down and the Auxiliary I/O lines will go low.	
Compliance Issues	None	
CSO Instruction	Please inform all technical staff and accredited dealers of this Technical Note.	

2. Issuing Authority

Name and Position of Issuing Officer	Paul Anderson Customer Support Engineer		
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