

TECHNICAL NOTE

Date 19th Mar 21 (rev 2)

ref 511

Raised by: PB/TC

Distributed to: as required

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ALL DIGICO MIXERS AND SYSTEMS

SUGGESTED POST – LONG TERM STORAGE SYSTEM CHECKS

During long down times when systems have not been used, when it is time to bring systems back out of storage to begin to work again, systems will benefit from a full check prior to use.

Below is a list of recommended operations and a checklist to complete and record.

- 1) Any Desks, Racks and Peripheral Cables should be placed in a Temperature Controlled area and brought up to Room Temperature – ideally over a 24-hour period. This helps with any equipment stored in Humid or damp areas.
- 2) Clean all Faders with Compressed Air and clean/lubricate with Caig De-Oxit F5 5% or similar specific potentiometer cleaning solution. (This should be done even if the Dust Cover was on) See appropriate Technical documentation for Fader cleaning.
- 3) Measure Power to Desk and Racks, Live to Neutral, Live to Earth/GND, Neutral to Earth/GND, either at system distribution level or individually, according to local regulations and local best practice considerations.
- 4) Switch One PSU on the Racks, make sure they start up. Then power on the 2nd supply.
- 5) Switch One PSU on the Desk, make sure that it all comes up OK. Then power on the 2nd supply.
- 6) When Desk Powered on, Check Time and Date is correct, if not, replace CR2032 battery on Engine. Failure of the RT clock may cause a BIOS warning to check date & time at bootup, typically showing “check date & time” or similar.
- 7) In Diagnostics on the Desk, that all Surfaces, Voltages, Engine and Audio IO all look correct.
- 8) Fully charge UPS systems if present for 24 hours and test operation. Refer to UPS documentation regarding operation. (Check on the possibility of UPS Batteries failures)
- 9) Check all Buttons, Encoders and Faders in Test program, mechanically and for operation.
- 10) Check all Optocore levels between Desk and Rack, if an optical power meter is available.
- 11) Check all Inputs and Output levels on Racks and mixer local IO.
- 12) Use a session for each desk to make sure all Inputs, Busses, FX all seem to behave.

CONSOLE SERIAL #		SYSTEM CHECK		
SOFTWARE #				
RACK SERIAL #				

1) System brought up to Room Temperature? YES NO

2) All Faders Cleaned and Lubricated? YES NO

3) Power Measurements: (if required)

Desk/Rack	Live to Neutral	Live to Ground	Neutral to Ground
Desk PSU 1	a.c.	a.c.	a.c.
Desk PSU 2	a.c.	a.c.	a.c.
Rack 1 PSU 1	a.c.	a.c.	a.c.
Rack 1 PSU 2	a.c.	a.c.	a.c.
Rack 2 PSU 1	a.c.	a.c.	a.c.
Rack 2 PSU 2	a.c.	a.c.	a.c.
Rack 3 PSU 1	a.c.	a.c.	a.c.
Rack 3 PSU 2	a.c.	a.c.	a.c.
Rack 4 PSU 1	a.c.	a.c.	a.c.
Rack 4 PSU 2	a.c.	a.c.	a.c.

4) Rack PSU 1 On only, does Rack Power on? YES NO

5) Rack PSU 2 On, does Rack remain Powered on? YES NO

6) Desk PSU 1 On only, does Desk Power on? YES NO

7) Desk PSU 2 On, does Desk remain Powered on? YES NO

8) UPS operation check? (if required) YES NO

Connect Racks to Desks via Optocore or MAD1 – System Preference.

9) Check Diagnostics on Desk.

Surfaces Detected YES NO

Voltages Detected YES NO

Engine Comms YES NO

Audio I/O, Racks Detected YES NO

10) Quit to Windows on Desk, explore to the D:\SD folder or D:\Q folder (to suit Model)
Locate and run the SD/Q Test.exe program, once open, select the Reset All Button.

Test the Surface controls.

Buttons Tested	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
Encoders Tested	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
Rotaries Tested	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
Faders Tested	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
LED's Tested	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
LCD's Tested	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
Touch Tested	YES	<input type="checkbox"/>	NO	<input type="checkbox"/>

Quit Test program and restart the SD/Q Application Software to carry out the following tests.

11) Using an optical power meter or similar device, Check Levels Out from Desk and Racks. Zero Meter to Desk A Out as a reference.

Desk/Rack	Port A Out	Port B Out
Desk	dB	dB
Rack 1	dB	dB
Rack 2	dB	dB
Rack 3	dB	dB
Rack 4	dB	dB

12) Using an optical power meter or similar device, Check Levels In to Desk and Racks. This checks Fiber cables integrity.

Desk/Rack	Port A In	Port B In
Desk	dB	dB
Rack 1	dB	dB
Rack 2	dB	dB
Rack 3	dB	dB
Rack 4	dB	dB

13) Check all analog Inputs on Local I/O of desk. YES NO

Check all analog Outputs on Local I/O of desk. YES NO

Check all AES Inputs and Outputs on Local I/O. YES NO

14) Check all analog Inputs on Racks. YES NO

Check all analog Outputs on Racks. YES NO

Check all AES Inputs and Outputs on Racks. YES NO

15) Route and Check all Inputs on Desk. YES NO

Route and Check Audio to all Busses on Desk. YES NO

Route and Check Audio to Internal effects on Desk. YES NO

Route and Check Audio to External Waves on Desk. YES NO