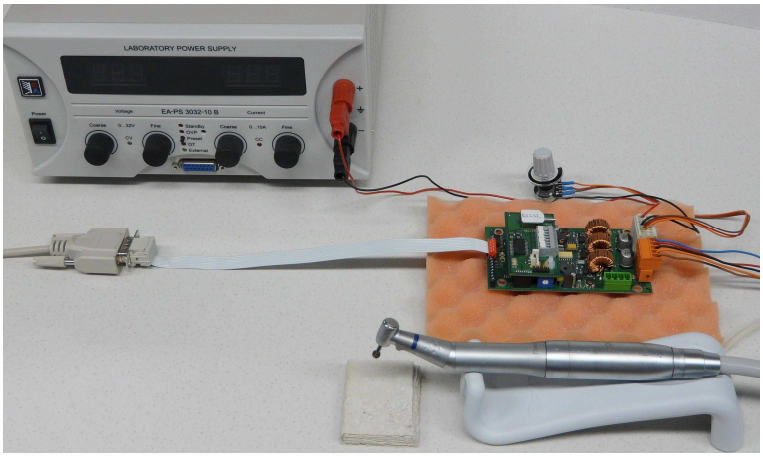
Reference:		Serial No.:	
Company name:		Product:	DMX-Standard & Basic DMX2-Pro & Plus

CAUTION!
There is no interchangeability between the components of the MX family (DMX-Standard & Basic) and those of the MX2 family (DMX2-Pro & Plus).
Never use a control unit, motor or hose from one family with the components from another family.

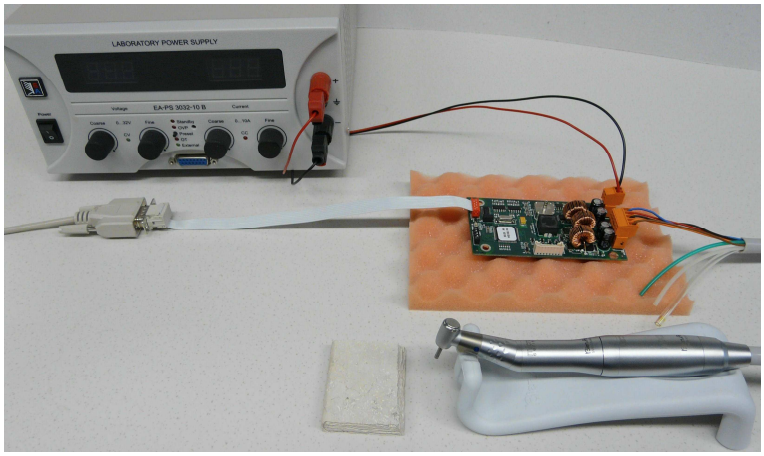
EQUIPMENT TO BE USED FOR THE INSPECTION:

- ❑ Stabilised power supply — 3300102-001 or equivalent = 32 Vdc 10 A
- ❑ 1x hose attachment — DMX → 4VX hose REF. 1600387; DMX2 → MX2 hose REF. 1600700
- ❑ 1x test reference motor — DMX → MX motor REF. 1600375; DMX2 → MX2 motor REF. 1600677
- ❑ 1x CA or PM ratio 1:1, blue, with Ø 2 to 4 mm spherical bur.
- ❑ 1x piece of braking test material.
- ❑ 1x plate of insulated antistatic material on which to place the DMX or DMX2 to be inspected.
- ❑ 1x RS232 cable: REF. 1500579
- ❑ A PC with the following Bien-Air test program:
  New 2010 version replaces the old version: MotorDriveController.exe
  and the following pilot program: mfc70d.dll and msvcr70d.dll

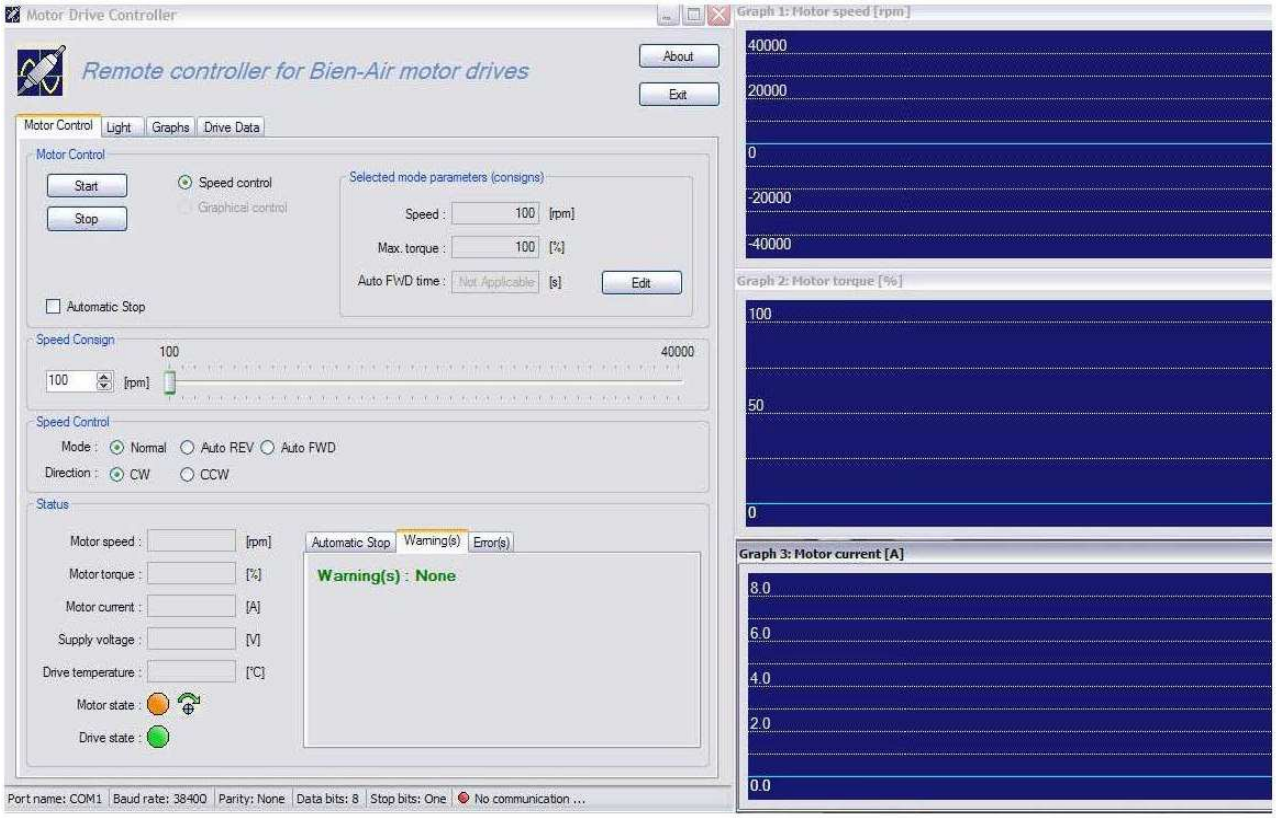
Installing the system for controlling the DMX-Standard



Installing the system for controlling the DMX2-Pro

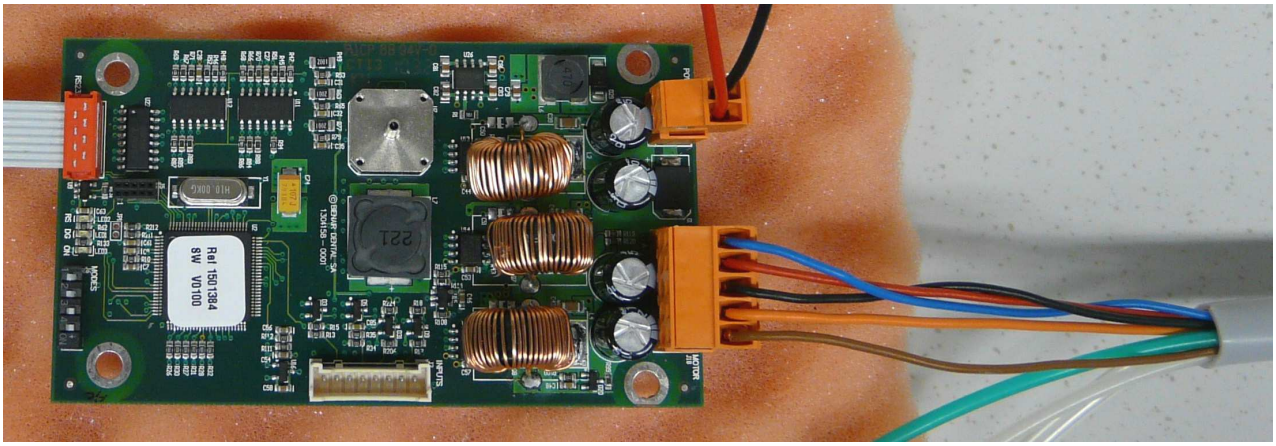


Inspection panel on PC display.



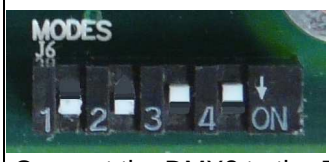
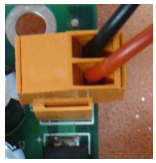
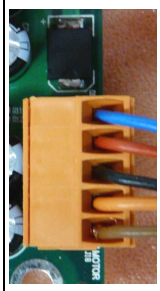
Connections for DMX-Standard

Connections for DMX2-Pro



INSPECTION CRITERIA

Y = Yes N = No

POS	PARAMETER	METHOD	INSPECTION	CONFORMITY	Y	N
1.1. DMX S & B	Power supply connection Hose and MX motor connection DIP switch settings Connection to PC	2 wires on white DMX connector: → +32 Vdc on **pin 1** connector → Gnd on **pin 4** Connect the hose for the motor to the orange connector on its control unit as shown opposite → Positions:  Connect the DMX to the PC using the RS 232 series cable		The connectors must be correctly plugged in.	☐	☐
1.2. DMX2 Pro & Plus	Power supply connection MX2: Hose + motor connection DIP switch settings Connection to PC	2 wires on the DMX2 connector: → +32 Vdc (red) see image → Gnd (black) see image opposite Connect the **hose for the motor** to the connector on its control unit as shown opposite → Positions:  Connect the DMX2 to the PC using the RS 232 cable	 	The connectors must be correctly plugged in.	☐	☐
2	Power supply inspection	Switch on the power supply and check that the voltage is +32 Vdc.		Voltage 32 Vdc ± 2 %.	☐	☐
3	Motor operation	Launch the test program: MotorDriveController.exe then click on "Start" Move the "Speed" cursor to maximum then click on "ccw" (counterclockwise). Reset the speed to 100 rpm and the direction of rotation to clockwise. "cw" Click on "Stop"	The motor starts and the light comes on Acceleration Basic values The motor stops	Rotation speed 100 rpm. Reaches 40,000 rpm then reverses direction of rotation Speeds 100 rpm. Direction reversal	☐	☐

4	Light operation.	Click on "Start" to start the motor. The light comes on automatically Click on "Light" Move the cursor from 1 to 16 and from 16 to 1 Click on "Motor Control" Click on "Stop"	Visible light A new screen appears Brightness variation The main screen reappears The motor stops	Continuous lighting. The brightness increases then decreases again. The light goes out after ~10 seconds	☐	☐

Point 5 only applies to DMX-Standard and DMX2-Pro. Go straight to point 6 for DMX-Basic and DMX2-Plus.						
5	Auto-reverse and auto-forward operation	Click on "Auto-rev." Click on "Edit" Change the torque to 10% then click on "ok" Click on "Start" Slow the bur until the direction of rotation reverses automatically. Click on "Stop" Click on "Auto-for." Click on "Edit" Change "Auto-forward time" to 30 then click on "ok" Click on "Start" Slow the motor until the direction of rotation reverses. Click on "Stop"	A new screen appears The new screen disappears The motor starts The motor stops then restarts. The motor stops A new screen appears The new screen disappears The motor starts Stop + start reverse direction + normal direction The motor stops	Torque reaches 10% and reversal of rotation direction. Reaches torque value and reverses for ~ 3 seconds then returns to clockwise direction.	☐	☐

6	Max. torque and overheating protection	Click on "Normal" Click on "Edit" Change the torque to 100% then click on "ok" Click on "Start" Mill into a test material until the motor stops and hold for 5-10 seconds Click on "Stop"	 A new screen appears The screen disappears The motor starts Motor stoppage The motor stops	 Speed 100 rpm The motor gradually slows then stops. "Motor current" on the screen increases to ~4.5A then drops back down to ~1.5A Two motor symbols appear: 1x jammed motor 1x overheated motor	☐	☐
7	End of test	Exit the program by clicking on "Exit" then switch off the power supply. Disconnect the connections indicated above	The screen disappears			
8	Traceability	Complete and archive (computerised or paper version) the SU 824-xxx and IC 751-015_xx. Any returns to Bien-Air Switzerland must include a paper copy of the completed form.				

CERTIFICATE OF CONFORMITY

Name and signature: _____ Date: _____

Comments: _____

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