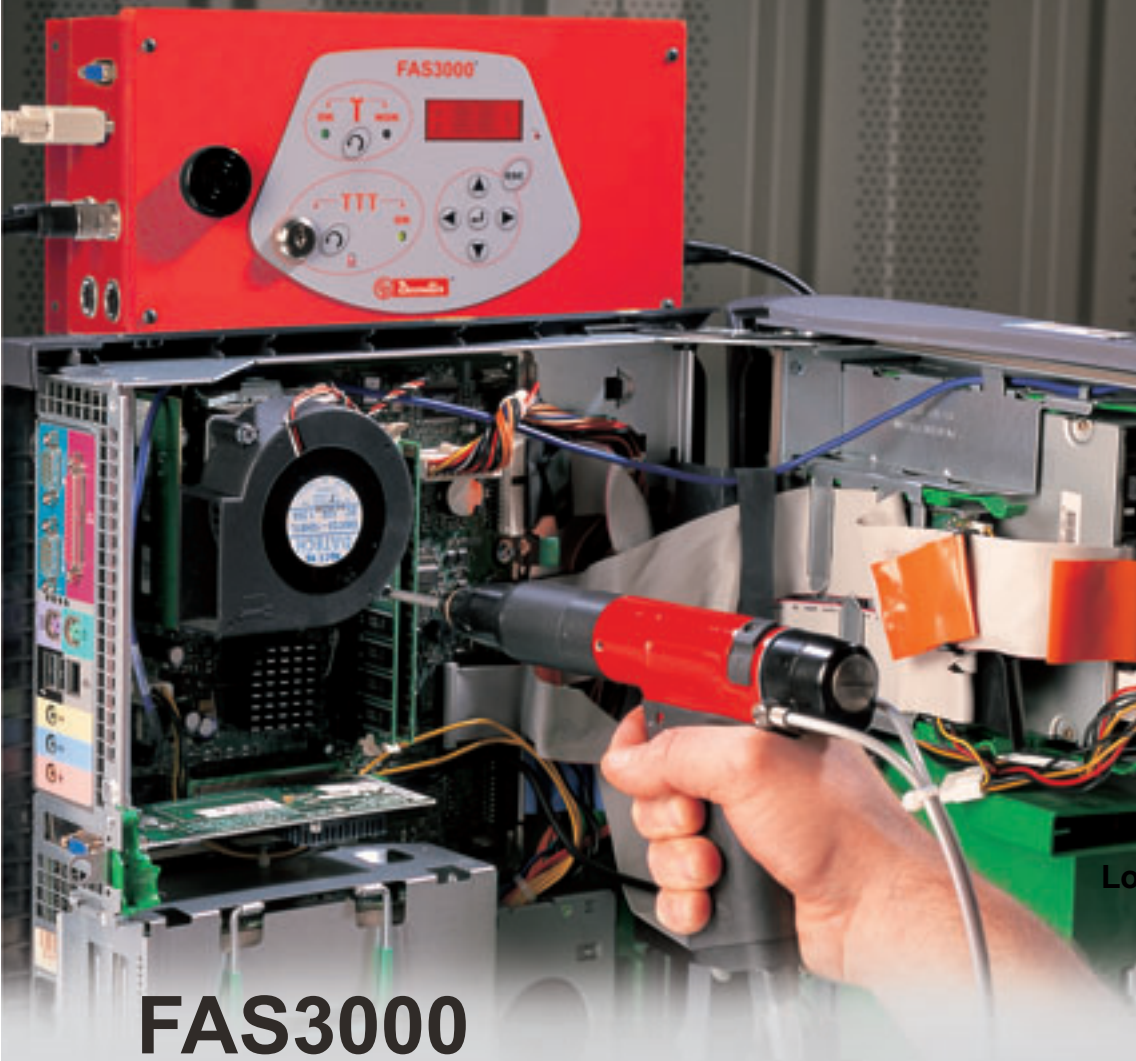
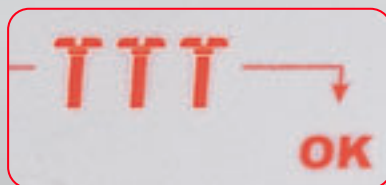
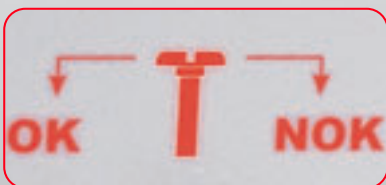


# Fastening Assurance System



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## FAS3000



# FAS3000 – Fastening Assurance System

The Chicago Pneumatic FAS3000 – Fastening Assurance System provides the ability to verify that all the fasteners in an assembly have been correctly fastened without the level of investment usually associated with assembly control systems and additional inspection.

The FAS3000 has been designed with the operator and engineer in mind and is easy to use and set up with a typical procedure comprising:

- Select measurement program.
- Rundown a number of OK screws and record data from the display.
- Enter parameters into the program via facia keypad.
- Select the run mode and the FAS3000 is now ready to use.

## Features

- Automatic measurement of fastener profile for rapid set up.
- 8 programs for different fastener profiles.
- Capacity for a maximum of 250 fasteners per program.
- OK and Not OK visual indicators for each fastener.
- Audible error warning for Not OK.
- “Group Cycle Complete” visual indicator.
- Manual lockable reset switch.
- Password protection of parameters.
- 4 output sockets for interfacing with other equipment including inputs as well as output signals.
- EMC approved.

Coded error messages are shown on the LED display to quickly identify the problem with the assembly process.

The messages include:

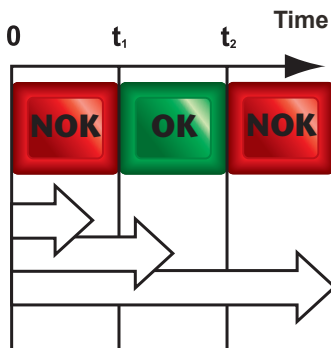
- Fastener already tightened.
- Clutch operated before minimum time.
- Clutch operated after maximum time.
- Trigger/Lever released at the same instant as the clutch operated.
- Trigger/Lever released before the clutch operated.
- Sensor failure.
- Too many fasteners tightened.



START-UP KIT to be ordered with the FAS3000			PART NUMBER
POWER CABLE AND PLUG		LENGTH	
A	Mains Power Cable Europe	2m	396853
B	Mains Power Cable USA	2m	459323
C	Mains Power Cable UK	2m	396843
ACCESSORIES INCLUDED			PART NUMBER
D Assembly transducer		LENGTH	
		5m	2050479083
2 of these are needed per unit			

DESCRIPTION	PART NO.	LENGTH		DIMENSIONS WIDTH		HEIGHT		WEIGHT		SUPPLY VOLTAGE
		mm	in.	mm	in.	mm	in.	kg	lb.	
FAS3000	2051466774	317	12.5	161	6.34	87	3.42	3	6.6	AC220-240V,50Hz & AC110-120V, 60Hz

By comparing the timing of pneumatic signals from a shut off screwdriver with set parameters, the fastening cycle can be monitored and output signals generated for OK and NOK.



## OPERATING SEQUENCE

$t_1$  = Minimum time

$t_2$  = Maximum time

Clutch operated before minimum time, lever/trigger released before minimum time.

Indicates crossed thread, screw too short, thread too short, too many washers.

Clutch operated within time limits - OK.

Clutch operated after maximum time. Screw too long, no thread in component, stripped thread, no washers on assembly.



