Operating Instructions

OPERATION	LATCHED	SYSTEM STATE DESCRIPTION	CR1					CR2			CR3					CR4			INDICATOR LAMPS			
			COIL	1-3	1-4	8-5	8-6	COIL	15-16	15-18	COIL	1-3	1-4	8-5	8-6	COIL	K1	K2	ORANGE	RED	BLUE	GREEN
PRESS STOP BUTTON	No	Current is cut to CR1, coil de energises returning terminals to normal state, T8-5 is therefore closed and current flows and illuminates Red indicator lamp. Power can flow to sockets 1,2 &3 without triggering CR4 because CR1 T1-4 is allowing current to flow to CR3 T 1-4 which is closed thus creating bypass to CR4.	DE	NO	NC	NC	NO	DE	NC	NO	E	C	N/A	N/A	N/A	DE	NO	N/A	OFF	ON	OFF	OFF
PRESS AUTO BUTTON	Yes	Resets CR3 allowing flow of current from Socket Outlets 1, 2 & 3 through CR4 if power tools are operated	DE	NO	NC	NC	NO	DE	NC	NO	E	C	O	N/A	N/A	DE	NO	N/A	OFF	OFF	ON	OFF
OPERATE POWER TOOL	N/A	Current flows through CR4 sensor triggering CR2 and energising coil opening T15-16 and closing T15-18. Current flows from CR2 T18 to CR1 T A1(2), energises CR1 coil which closes T1-3. Power flows to chip extractor power socket outlet 4	E	C	O	O	C	E	O	C	E	C	O	N/A	N/A	E	C	N/A	OFF	OFF	ON	OFF
STOP POWER TOOL OPERATION	N/A	Current no longer flowing through CR4, trigger signal K1 to S ceases, delay timer started, CR2 coil de energises at end of delay time sequence, T15-18 opens, current ceases to flow to CR1 T A1(2), coil de-energises, T1-3 opens T1-4 closes and respectively current is cut to power socket outlet 4 and flows to CR3 T1-4 bypassing CR4.	DE	NO	NC	NC	NO	DE	NC	NO	DE	NO	NC	N/A	N/A	DE	NO	N/A	ON	OFF	OFF	OFF
PRESS OVERRIDE BUTTON	Yes	CR1 coil energised, T 1-3 closes, current flows to Socket Outlet 4, T 1-4 opens, T 8-5 opens cutting current to red indicator light and T 8-6 closes and current flows to and illuminates Green indicator lamp. CR4 is bypassed.	E	C	O	O	C	DE	NC	NO	DE	NO	NC	N/A	N/A	DE	NO	N/A	OFF	OFF	OFF	ON

ABBREVIATIONS		
	E	Energised
	DE	De Energised (Normal state)
	NO	Normally open
	NC	Normally closed
	O	Open
	C	Closed
	CRX	Relay number where X is the number designated to a relay
	T	Relay terminal designator

	Mode	
Orange indicator lamp	Bypass	Indicates current sensing CR4 relay is being bypassed (coil de energised)
Red indicator lamp	Stop	Indicates all stop except sockets 1,2 & 3 which can still be used without activating dust extractor
Blue indicator lamp	Auto	Indicates delayed time circuit is in state of readiness for power tool operation trigger having pressed the Blue Auto button
Green Indicator lamp	Override	Indicates Override is operating and dust extractor running independently of power tool operation