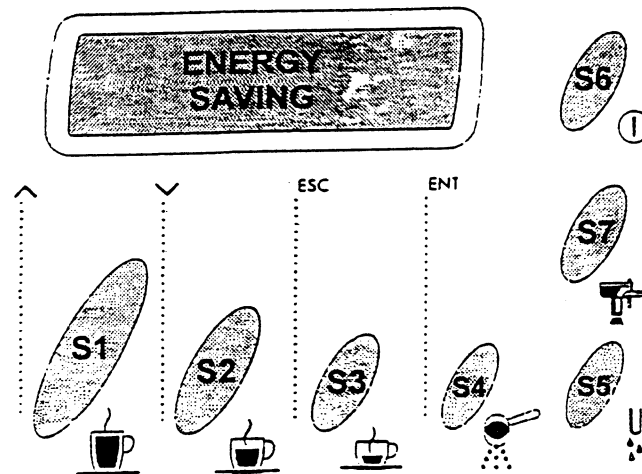


Test Mode – Royal Professional

To enter test mode, machine must be in Energy Saving mode. Press and hold S3 and S5, then press and release S6. The version number of the microprocessor will be displayed. Release S3 and S5.



Switches pressed	Motor, sensor or switch tested	Changes to top line of display	Changes to bottom line of display
S1	Brew drive to brew position	When brew position microswitch is engaged (brew group in brew position) the numeral 1 is displayed	While pressing, the numeral 1 is displayed and the three digits on the right side disappear
S2	Brew drive to home position	When home position microswitch is engaged (brew group in home position) the numeral 2 is displayed	While pressing, the numeral 2 is displayed and the three digits on the right side disappear
S3	Grinder	When doser microswitch is engaged the numeral 3 is displayed	While pressing, the numeral 3 is displayed and the three digits on the right side disappear
S4	Doser solenoid **To avoid overheating coil, do not engage too long**		While pressing, the numeral 4 is displayed and the three digits on the right side disappear
S5	This is a shift button. Engage this first when using shift functions		While pressing, the numeral 5 is displayed and the three digits on the right side disappear
S6	This is a shift button. Engage this first when using shift functions		While pressing, the numeral 6 is displayed and the three digits on the right side disappear
S7	Cappuccinatore ElectroValve		Three digits on the right side disappear
Press and hold S5 then press S1	Cup warmer		While pressing, the numerals 1 and 5 are displayed and the three digits on the right side disappear
Press and hold S5 then press S2	Brew boiler small heating element		While pressing, the numerals 2 and 5 are displayed and the three digits on the right side disappear

Switches pressed	Motor, sensor or switch tested	Changes to top line of display	Changes to bottom line of display
Press and hold S5 then press S3	Brew boiler large heating element		While pressing, the numerals 3 and 5 are displayed and the three digits on the right side disappear
Press and hold S5 then press S4	Steam boiler heating element		While pressing, the numerals 4 and 5 are displayed and the three digits on the right side disappear
Press and hold S6 then press S1	Brew pump Do not engage too long as water does not have an exit – Use S4 and S6	Numeral 8 flashes with pulses of brew flowmeter.	While pressing, the numerals 1 and 6 are displayed and the three digits on the right side disappear
Press and hold S6 then press S2	Decalcify Electrovalve		While pressing, the numerals 2 and 6 are displayed and the three digits on the right side disappear
Press and hold S6 then press S3	Hot water electrovalve		While pressing, the numerals 3 and 6 are displayed and the three digits on the right side disappear
S4 and S6	Brew pump, decalcify electrovalve, and hot water electrovalve	Numeral 8 flashes with pulses of brew flowmeter	While pressing, the numerals 4 and 6 are displayed and the three digits on the right side disappear
Press and hold S5 and S6 then press S1	Steam pump	Numeral 9 flashes with pulses of steam flowmeter. (Open steam knob so that water has an exit path.)	While pressing, the numerals 1, 5 and 6 are displayed and the three digits on the right side disappear
Press and hold S5 and S6 then press S2	Steam pump and hot water electrovalve	Numeral 9 flashes with pulses of brew flowmeter	While pressing, the numerals 2, 5 and 6 are displayed and the three digits on the right side disappear
Press and hold S5 and S6 then press S3	Steam pump and hot water electrovalve	Numeral 9 flashes with pulses of brew flowmeter	While pressing, the numerals 3, 5 and 6 are displayed and the three digits on the right side disappear
Press and hold S5 and S6 then press S4			Current temperature of boilers
Steam knob		Numeral 4 toggles on/off when steam knob switch is engaged/disengaged	
Dump box		Numeral 5 toggles on/off when dump box switch is engaged/disengaged	
Brew group		Numeral 6 toggles on/off when brew group switch is engaged/disengaged	
Water tank		Numeral 7 toggles on/off when water tank is full/empty	

***For a special diagnosis mode, from Energy Saving, press and hold S1, 2 and 3. Press and release S6, then release S1, 2 and 3. Using S1, scroll to Menu 18, Diagnosis. See programmer manual for a detailed explanation of the functions. To exit Diagnosis press S5, then scroll to Menu 17, Exit.