

Both sensing modes employ special specific agitator strokes and then assess the load's response to those agitator strokes.

The washer has 4 main buttons: a 'Power', 'How Dirty', 'Fabric Care', and 'Start/Pause' buttons. The washer does not have a 'normal' cycle that the user can select as such. A console photo is attached at the end of this waiver application.

- The 'Power' button turns the washer on and sets it to 'How Dirty' setting 3 and 'Fabric Care' on Auto sensing. .
- 'How Dirty' button is the main customer input. The "How Dirty" level is indicated on the washer console by a column of LEDS ranging from 1 to 5. The washer is programmed to default to level 3 (midpoint) when the 'Power' button is pushed. It can then be increased or decreased by the customer to suit the requirements for the particular load being washed. The User Guide for this washer states: "For a normal wash load we suggest the medium soil level ..."
- 'Fabric Care' button defaults to 'Auto sensing' when the washer is turned on. This button is only used to select other (than normal) cycles such as Permanent Press, Wool or Handwash. As these are not cycles ever tested by DOE this button is not used for testing.
- 'Start/Pause' starts the washer with either the default settings or with any changes that the customer has made.

There is also an LCD screen with several buttons. This is used to enter other modes such as wash temperature selection, time delay, spin speed etc. The only use for these in J/J1 testing is for the wash temperature and spin speed selection. Different values of each of these parameters can be selected by using the LCD screen. The waiver is not required and has no effect on these selections. Hence the screen will be used for selecting both the wash temperature, and the maximum and minimum spin speeds to give values of RMC_{max} and RMC_{min} for use in the test method.

When the 'Start/Pause' button is pushed the washer will start to fill and go through an automatic sensing routine to determine the water level. The washer will then sense the fabric type of the load and assign an 'agitator profile' for that cycle.

The agitator profile determines the wash action depending on the 'How Dirty' setting, water level, and type of clothes load. This wash action will come from a table of standard, predetermined wash actions. The wash process is different to traditional washers. The wash sequence is as follows. Washing takes place during items b, c & d.

- a) Fill with sufficient water to recirculate.
- b) Begin the washing action by recirculating the high concentration detergent solution.
- c) Fill to normal wash level.
- d) Standard agitate wash.
- e) Drain

The times for items b & d can vary for different 'How Dirty' settings but are incorporated in the software and are not independently variable by the customer. The 'How Dirty' button controls a number of parameters. These include agitator speed as well as recirculation and agitate times. There is no separate wash time setting or adjustment.