Maytag Services Training Bulletin

Product: New Electronic Control

Date: August 1, 2005

IntelliDial Electronic Laundry Controls

A new line of electronic controls, "IntelliDial", hits the Sales Floor in August. The new controls will be used on Maytag high end top load washers and gas and electric dryers. The new control system uses a solid state timer and encoder (logic) switches in place of the electro-mechanical timer and switches used in the past. The IntelliDial electronic timer control rotates in either direction without the need to pull out or push in the CSK (Cycle Selection Knob). LED indicator lights around the CSK illuminate as the knob is turned to indicate the cycle choices. A row of LED lights under the CSK illuminate to show the status of the machine as it progresses through the cycle. One washer and one dryer control circuit board is used for all models. These circuit boards are loaded at the time of manufacture with the software needed to support a variety of product models. A control membrane specific to each model determines which portion of the preloaded software is used. A primary encoder switch connects the model specific membrane to the control circuit board. A conventional two position water level pressure switch is used to determine water level.



Note: Always refer to the Technical Data Sheet shipped with the product for detailed service information for the model you are servicing

Accessing Controls

To access the control components begin by removing three screws across the top of the control console



The control console can be rolled out and down for front serviceability



Remove the hose to the pressure switch to ease positioning of the console



Component Identification



Rotary encoder switches are used for option selection A primary encoder is used for cycle selection A convention pressure switch is used to control water level

Caution: Always be static aware when handling electronic control circuit boards. Make sure to discharge any static charge you may be carrying to ground

To remove the control board:



Remove the cycle selector knob; be careful not to damage the encoder or fascia when removing

Remove the five edge connectors attached to the control circuit board



Unplug the red and white wire connectors from the board. When installing make sure to follow the color code printed on the control board



Depress the two locks and lift out the control circuit board. Make sure to insert the board into the slots provided in the console when installing the board





To remove any encoder or the pressure switch



To remove any encoder or the pressure switch, release lock and rotate switch clockwise 1/4 turn



The encoders can be easily identified – The primary encoder used with the control circuit board has the short ribbon connector. Option encoders are labeled P2, P3, P4 or P5 to correspond with the selections available.

The machine control circuit board is equipped with diagnostic software to aid in troubleshooting. The first step to access any test is to enter the **Service Mode**



Entering the "Service Mode"





Display Model ID



Model ID Chart – The chart below is used to determine the Model ID from the sequence of Status LED's illuminated. The model ID must match the machine you are servicing.

		0	4	2	1	4	2	1
Washer Model Number	Binary Code	Fill	Soak	Wash	Rinse	Spin	Complete	Pause
MAV546E	43			0	0	0		
MAV5920AGW (INT)	44	0		0	0		0	0
MAV508DE, MAV551E	45	0	٠	0	0	•	0	
MAV5757, MAV5858	46	0		0	0			0
MAV5920E	47	0		0	0			
NAV8805	53			0		0		
		Illuminated Status Lights under CSK Indicate Binary						

Display/Clear Service Codes



Service Code Chart

		64	32	16	8	4	2	1
Error Discription	Binary Code	Fill	Soak	Wash	Rinse	Spin	Complete	Pause
Model ID unknown, Default to model 31	31	\bigcirc	\bigcirc					\bullet
Switch 3, left of the encoder, failed to read a valid value at startup	28	\bigcirc	\bigcirc		\bullet	\bullet	\bigcirc	\bigcirc
Switch 2, left of the encoder, failed to read a valid value at startup	26	\bigcirc	\bigcirc			\bigcirc		\bigcirc
Switch 1, left of the encoder, failed to read a valid value at startup	25	\bigcirc	\bigcirc			\bigcirc	\bigcirc	\bullet
Incorrect rotary switch position detected	24	\bigcirc	\bigcirc			\bigcirc	\bigcirc	\bigcirc
Fill time less than 2 seconds	22	\bigcirc	\bigcirc		\bigcirc	\bullet		\bigcirc
Fill time exceeds 18 minutes	21	\bigcirc	\bigcirc		\bigcirc		\bigcirc	\bullet
Motor Thermal protector open	19	\bigcirc	\bigcirc		\bigcirc	\bigcirc		\bullet
Motor Thermal protector opened more than 5 times	18	\bigcirc	\bigcirc		\bigcirc	\bigcirc		\bigcirc
Thermistor possibly shorted	17	\bigcirc	\bigcirc		\bigcirc	\bigcirc	\bigcirc	\bullet
Thermistor possibly open	16	\bigcirc	\bigcirc		\bigcirc	\bigcirc	\bigcirc	\bigcirc
Thermistor value out of range	15	\bigcirc	\bigcirc	\bigcirc				\bullet
Power Failure detected	1	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bullet
No Codes	0	\bigcirc						
	Match the status light pattern to the error discription							

Console Switch Test





Service Cycle Test

Fabric Selection	Once in the Service Mode , Rotate the CSK to Regular and press to enter the washer			
Handwash K. Gentle/Slow Sulick Wash Gentle/Fast Fil Soatk Wash Rese Spin Cycle Status Push to Stat - Push to Stop	 service cycle: Hot water fill valve will energize. Tap CSK–Cold water valve will energize Tap CSK–Selected wash temperature fill Tap CSK– Agitate slow Tap CSK – Agitate Fast Tap CSK – Spin Slow 	Fill & Wash LEDS illuminate Fill& Rinse LEDS illuminate Fill& Wash & Rinse LEDS illuminate Wash LED illuminates Wash LED blinking Spin LED illuminates		
	 (there will be a slight delay until motor stops) Tap CSK – Spin Fast Tap CSK – Cycle Complete Tap CSK – Exit to Service Mode (Note: Press CSK until Pause LED begins blinking to pause the Service Cycle Test) 	Spin LED blinking Complete LED illuminates		