Fisher&Paykel
appliances

Service Manual

DishDrawer

MODELS

DD603	DD603H
DD603I	DD603IH
DS603	DS603H
DS603 I	DS603IH
DD603M	DD603HM
DS603M	DD603HM

599082

Manual 599082 March 2004

Changes:
Aug 03: Addition of info on Dry Enhancement Mode – refer section 4.1.8, page 20, plus many minor alterations throughout manual.
Mar 04: Dimensions and Specifications updated p 9, 10.

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1.0 SERVICE REQUIREMENTS

1.1 Health & Safety

Note: When servicing the DishDrawer, Health and Safety issues must be considered at all times. Specific safety issues are listed below with their appropriate icon. These are illustrated throughout the service information to remind service people of the Health and Safety issues.

1.1.1 Electrical Safety

Ensure the mains power has been disconnected before servicing the DishDrawer. If the mains supply is required to be on to service the DishDrawer, make sure it is turned off when removing any electrical component or connection to avoid electrical shock.

1.1.2 Electrostatic Discharge

An anti-static strap is to be used as electrical static discharge (ESD) protection when servicing electronic components.

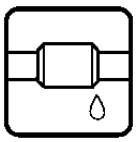
1.1.3 Good Working Practices

Ensure the work area is in a tidy and orderly condition at all times so as not to cause a hazard while service work is being completed. Always clean and tidy the DishDrawer and work area after service is completed.

1.1.4 Isolate Water Supply

Turn off the water connection tap before servicing.

1.1.5 Water Leak Check



Check for water leaks as part of the testing after the service has been completed.

1.1.6 Insulation Test

Megger test to check insulation.

Warning: Short together the phase and neutral pins on the plug so as not to damage any electronic circuitry.

1.1.7 Solvent and Excessive Heat Damage

Plastic surfaces can be damaged by solvents and excessive heat.

1.1.8 Sheet Metal Edges

When working around cut sheet metal edges use appropriate gloves or protection to eliminate the chance of receiving a laceration.

1.1.9 Diagnostics

While in diagnostics some safety devices are bypassed.
Ensure you do not run components unattended. They may overheat, flood, burnout or cause water damage.

1.2 Specialised Tools

For servicing this product Specialised tools are required.

1.2.1 Static Strap:

To be used as ESD protection when replacing or handling electronic components.

1.2.2 Fisher & Paykel Smart Tool

Handheld palm computer supplied in protective case with F&P diagnostics software and service information loaded:
P/N 813141 (includes light pen P/N 425930).

2.0 DIMENSIONS & SPECIFICATIONS

2.1 Dimensions

	Product Size (mm)	Product Size (inches)	Minimum Cavity Size	Minimum Cavity Size
Height (double)	819.5-879.5	32 1/4 inch – 34 5/8 inch	822.5-882.5mm	32 3/8 inch
Height (single)	409mm	16 3/32 inch	412mm	16 7/32 inch
Width	595mm	23 7/16 inch	600mm	23 5/8 inch
Depth	570mm	22 7/16 inch	580mm	22 7/8 inch
Drawer Open (inc cab)	1080mm	42 1/2 inch		

2.2 Specifications

2.2.1 Electrical

Market	Voltage	Frequency	Current double/single
NZ/AUS/UK/EU	230-240 V AC	50 Hz	10 A / 5 A max
USA	110-120 V AC	60 Hz	12.5 A / 6.5 A max
JAP	90-110 V AC	50/60 Hz	11.6 A / 5.8 A max
KOREA	220 - 240	60 HZ	- / 4.5 A max.

2.2.2 Components

Component		Part Number	Specifications
Water Inlet Valve	Ph3.5 Ph3.5 Ph3 Ph3	P/N 526850 Double 2.5litre P/N 526851 Single 2.5 litre P/N 525113 Double 5 litre P/N 525842 Single 5 litre	24V DC 70+/- 5 Ohms per coil 2.5Lt/min (0.65 USgal/min) 5 litre/min (1.3 US gal/min)
Dispenser Rinse Aid capacity		P/N 526860	24V DC per coil 70+/- 5 Ohms per coil 50mls (approx. 25 washes)
Mains Filter Board (NZ/AUS/UK/EU/KR) Mains Filter Board (USA/JAP)		P/N 525958P P/N 525959P	240V AC 120V AC
Motor Drain Direction Wash Direction		5 litres / min.	80V DC 3 Phase 4200 RPM 2600 RPM
Stator		P/N 526530	8.0 +/- 5 Ohms (per winding), 16 ohms phase to phase from controller connector

Component	Part Number	Specifications
Heater Plate (NZ/AUS/UK/EU/KR) Heater Track Power Supply Resistor	P/N 527701	240V AC 60 Ohms +/- 3 Ohms 125 Ohms +/- 5 Ohms
Heater Plate (USA) Heater Track Power Supply Resistor	P/N 527702	120V AC 26 Ohms +/- 2.5 Ohms 30 Ohms +/- 5 Ohms
Heater Plate (JAP) Heater Track Power Supply Resistor	P/N 527703	110V AC 20 Ohms +/- 1.5 Ohms 20 Ohms +/- 2 Ohms
Temperature Sensor	On Heater Plate	962 Ohms @ 20^0C (68^0F) 1000 Ohms @ 30^0C (86^0F) 1202Ohms @ 60^0C (140^0F)
Fuseable Link	On Heater plate	268 – 302^{o}C (514 – 576^{o}F)
Inlet Hose (NZ/AU/ /KR) Inlet Hose (WP/EU/DK/GB) Inlet Hose (USA) Inlet Hose (JAP)	P/N 521349 P/N 527021 P/N 525970 P/N 526809	1.7m (66 inches) 1000Kpa / 145 P.S.I.
Drain Hose Drain Hose (Lower) Drain Hose (Upper)	 P/N 525966 P/N 525967	2.0m (78 inches) from rear of cabinet 2.5m (98 inches) bottom tub 2.9m (114 inches) top tub
Drying Fan	P/N 526752	3.4K Ohms
Diverter Valve Softener Assy	P/N 526416	24V DC Coil 70 +/- 5 Ohms Coil
Brine Pump Assy	P/N 526418	24V DC Coil 70 +/- 5 Ohms Coil
Water Softener		500 grams Salt Capacity approx 14 regenerations 290+/- 10ml Resin
Lid Actuator Top left Top right Bottom left Bottom right	 P/N 526275 P/N 526371 P/N 526469 P/N 526470	24 V DC
Hall Sensor	P/N 526340	4.13, and 3.43 M ohms measured +ve in centre, -ve to outside