

## Updates for 2.4

*Add to end of GD5*

If you think this unit is faulty, then short the plug wires A9 and A7 together. The motor should now operate. A substitute plug can be made from a discarded dumper motor.

## Updates for 3.0

*Add to end of F8*

They have 2 terminals with no polarity. They are not reversible by swapping the Active and Neutral wires. The only way to change the direction is to Reassemble the field winding the opposite way around. They rotate at 2880rpm.

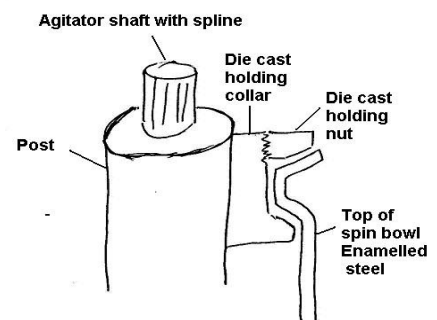
*Add to end of N3.4*

Late model machine have an improved lid switch which is more reliable. It is located at the back left hand corner , access is by opening the control panel (N2.1) and can be clipped on from the top.

*Add*

### N2.5 Spin bowl removal

1. Remove the agitator (N2.3)
2. Using the special tool (Simpson stem nut spanner, K5.1) undo the die cast . The nut undo in the normal direction and hitting with a hammer may be required.
3. The spin bowl now lifts out. Corrosion may make it difficult.



*Illustration 1: Removing the Spin bowl*

### Changes to O4.3

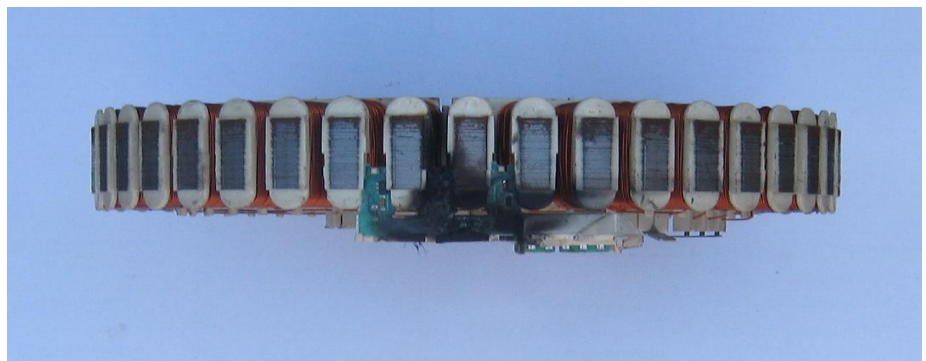
If the spin bearing need to be replaced then the cabinet need to be removed (O2.3), if not follow the instruction below. Need to remove the cabinet for late model seal kit.

1. Remove the front panel. (O2.1)
2. Hing the top up (O2.5)
3. Remove the agitator and splash ring (O2.4).
4. Remove the bell housing. A cheap pulley puller can be used instead of the special tool. Use some old bolts with the correct thread to support the puller.
5. The Simpson spanner (G9.1) can be used to undo the nut.
6. If the spin bearing is to be replaced, procedure to O4.4 before replacing the new spin seals.
7. Use the supplied sealant when fitting the seal to the wash bowl.
8. PVC plumbing pipe can be used instead of the special tool for refitting the bell housing.

*Add*

### M7.8 Water damage to Motor

High voltage and electricity do not mix, leaking spin bearings (M7.6) need to be fixed quickly as it can take out the motor and PCB.



*Illustration 2: Water Damage to Motor*

Add

## E14 Special Valve Repair

Some manufactures use special shaped valves which are expensive to replace. The valves can be pulled apart and the rubber diaphragm from a new valves can be fitted. The coil can be gently pulled off and the cover over the diaphragm can be screwed off with pointy piers. Standard valve like W025 & W035 can be used on spare fore special valve with similar construction. Hoover ever some manufactures glue the tops in to prevent this repairs, Early GE and the Double and triple vales on Fisher & Paykel and Electrolux/Simpson do this.

### Replacing Double Valves with Single Valves

Some manufactures have use special shaped double valves which are much more expensive. If space is available they can be replaced by standard valves (90° or 180°). See section E2.4.2. The Hoover 1010 has all the required hose fitting to combine water into one hose. Also the garden section of the hardware shop have ½ inch (12mm) hose joiners for there black plastic watering system.

### Using Standard Valves with different coils

A W035 valve was used to replace a Fisher & Paykel valve and the existing coil was used instead of the 240V coil, see M7.5. I used this before non-genuine 12V and 24V where available.

Add to M7.7

### Replacing Double Valves with Single Valves

The mixing chamber and 2 valves, the rubber seals and the holding brackets from an earlier machine can be used in place of the double valve, and is a cheaper solution.

Alternative:

If washing in cold water is used the the hoses can be swapped and the wire also swapped. One will need to be extended.

Add R4.8

Worn Carbon Brushes. The connection to the armature will be open circuit and the motor uses no current or move. If only partly worn the motor may wash but fails on spin with the extra load.

Add to R6-S4

### Nidec Motor

480-1600rpm

T = 179 Ohm, A = 3 Ohm, F = 10 Ohm

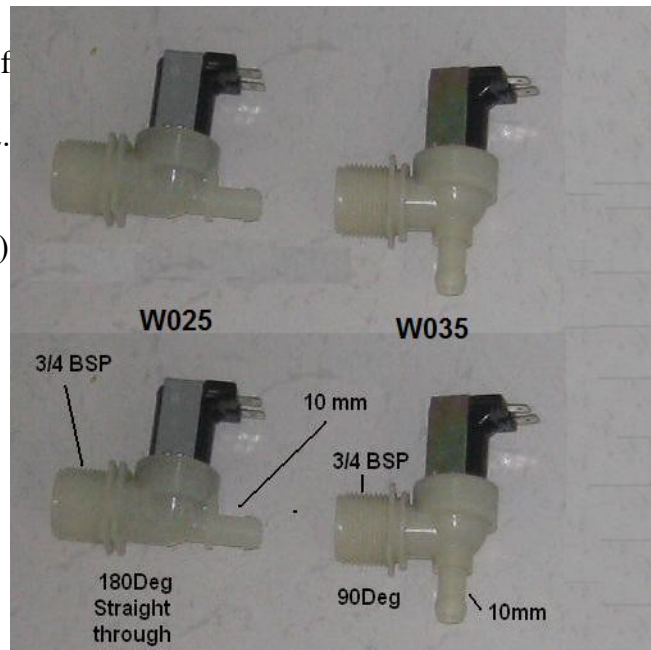


Illustration 3: Standard Valves

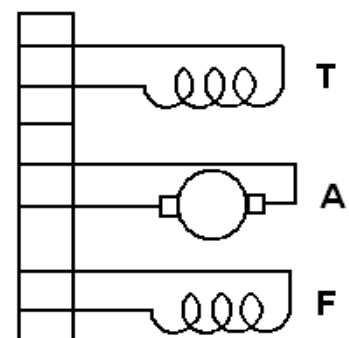
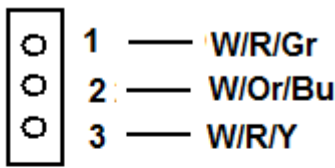


Illustration 4: Nidec Motor

Updated

### J-D1 Pressure Switch Connections



Connection for Hoover 920  
Colours:  
1. White/Red/Gray  
2. White/Orange/blue  
3. White/Red/Yellow

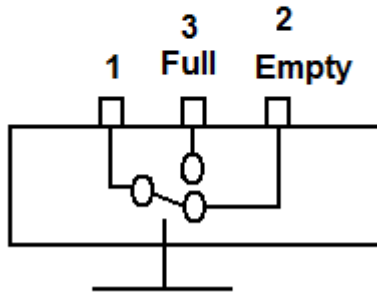


Illustration 5: Pressure SW Connections

### P8 Pressure switch wiring

Wiring for an early model pressure switch. (Singer)

Add to end of E6

Electrical connections see J-D1, P8, T2.1, useful substitution.

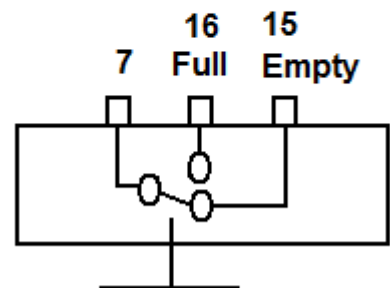
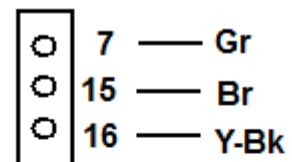


Illustration 6: Pressure Switch Wiring

### M5.7 Spin Bowl Drive Dogs

The spin bowl floats up and the causing the disengagement of the drive block teeth in the spin bowl when the machine is filled with the correct amount of water. (M2.1) The drive block has a s/s wear washer and when this wears the teeth do not disengage completely and it will make a clicking noise. Remove the agitator to get access. Also the it will allow the bowl to rise too high and rub on it and damage the splash ring.

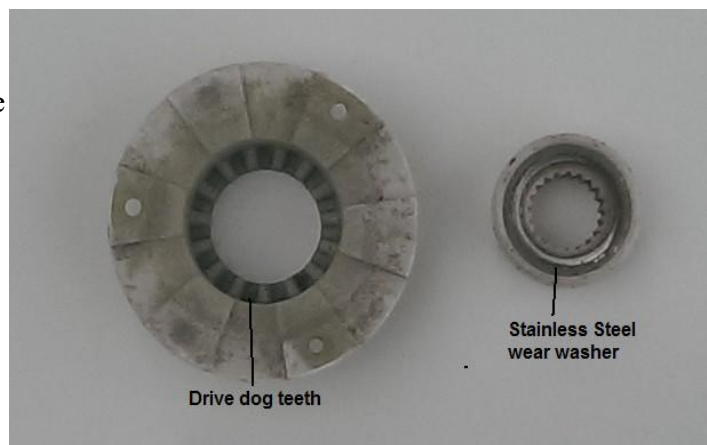


Illustration 7: F/P Drive Dogs

Add to M8.2

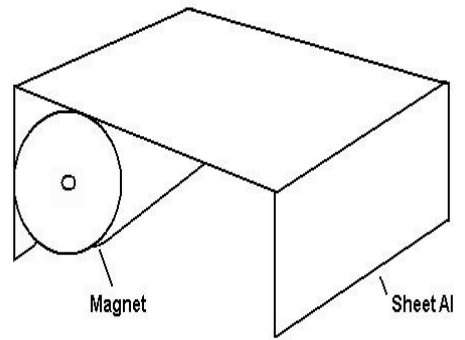


Illustration 8: Lid Magnet Tester

Add

**N5 Whirlpool Gearbox**

Gearbox removed from machine and brake.



Illustration 9: WP Gearbox with Clutch

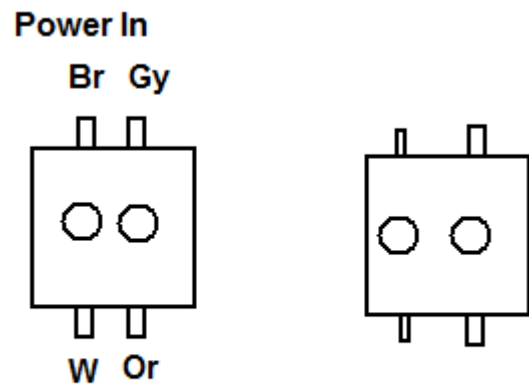


Illustration 10: WP Brake

*Add*

### **S3.6 Hoover Double Thermostat Replacement.**

With the dryer operating measure the voltage on both sides of the thermostat, if missing the switch contact is open and needs to be replaced. Late model ones have a big and small spade connections and can be used to replace early ones. Drill a hole for the wider mounting bracket. Mount with the small spades to the outer side of the drum.



**<- Outside of drum**

*Illustration 11: Hoover Discomelt*

*Add to T13*

### **Common Problems**

Fault motor capacitor (T8.6), Thermostats or heating elements (T8.2), the door catch (2 different dimensions to make replacement difficult, only used second hand ones), and the 'back hose' leaking. The back hose goes from the pump to the spray arm on the top basket. It breaks at the thread holding it to the back panel.

Repair:

1. Use a second hand one or buy a replacement one?
2. Repair the old one using plastic pipe fittings from a hardware store using irrigation pipe fittings.
3. Use Electrolux part number 0218400039. This is a little different but can be made to fit. Leave the hose on at the pump, and use a plastic irrigation pipe joiner to join the hoses.