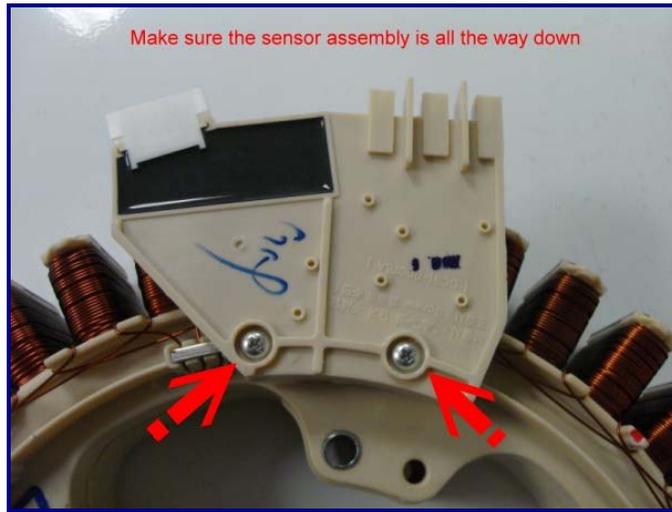


**Models:** WF218ANB, WF218ANW

**Symptom:** Will not spin above 400 RPM

**Solution:** Verify the drum motor Hall Sensor is mounted properly. Incorrect mounting will cause the micro to incorrectly detect the imbalance.



---

**Models:**

WF203ANS/XAA,WF337AAL/XAA,WF337AAR/XAA,WF337AAW/XAA,WF328AAW/XAA,WF326LAS/XAA,WF326LA W/XAA,WF328AAG/XAA,WF209ANW/XAA,WF328AAR/XAA,WF203ANW/XAA,WF338AAW/XAA,WF206ANS/XAA,W F206BNW/XAA,WF306BHW/XAA,WF306LAW/XAA,WF316BAC/XAA,WF316BAW/XAA,WF316LAS/XAA,WF316LAW /XAA,WF317AAG/XAA,WF317AAS/XAA,WF317AAW/XAA,WF337AAG/XAA,WF218ANB/XAA,WF218ANW/XAA,WF4 48AAW/XAA,WF438AAR/XAA,WF448AAP/XAA,WF338AAB/XAA

**Symptom:** Checking the front load washer Direct Drive Motor “Hall” sensor

**Solution:**

The drum motor has a sensor which is a part of the system that will determine if the drum is out of balance by the MICOM on the main PCB. As the drum begins to spin, the MICOM looks for an indication if the motor is spinning and how fast it is spinning.

If the drum rotation starts to vary; speeding up and slowing down rapidly, the Washer may show an error “DC”. This might be related to the Hall Sensor which provides the drum rotation information to the Main PCB.

The wiring diagram for the drum motor shows that the HALL sensor is supplied with +5VDC from the main PCB (pink wire). There is also a ground connection from the sensor to the board (orange wire). The other connections are signal wires (red and blue) that the MICOM uses to determine speed and rotation of the motor.

**Hall Sensor Check –**

The hall sensor measures rotation speed by reading the magnetic field created by the magnets on the rotor.

Power the washer on and verify that +5VDC is being supplied to the sensor by measuring the pink wire at the sensor. Be sure to use the orange wire as your ground reference, not chassis ground. If the +5VDC is not present, check the connectors at the Main PCB and the continuity of the wiring.

1. Connect your DVM to the orange and red wires, you should measure 0VDC or 3.75VDC, manually rotate the drum and verify that the voltage value changes up and down. If the voltage value does not change the hall sensor is suspected to be defective.

If you have a DVM with frequency capability you will see the rotation speed or frequency by monitoring the orange and red wires or the orange and blue wires.

- For full details on these tips, consult the GSPN website at <http://service.samsungportal.com>