



HOSHIZAKI AMERICA, INC.

SERVICE BULLETIN

SB02-0007

October 31, 2002

Page 1 of 2

Subject: THE KM FLOAT SWITCH PARTS BREAKDOWN

Actual defects in KM float switches are generally found in 1 of 3 areas, the electrical connector, the wire or the internal magnetic switch. These areas should be checked thoroughly if a float switch is suspected as defective. Our Quality Control department has found that most of the KM float switches that are returned under warranty check good after they have been cleaned. The float switch and rubber connector should be thoroughly cleaned and the float switch tested before replacement. The switching mechanism of the float is encased in plastic, so it is not affected by scale build up. However in most cases a float switch failure is a result of scale build up on the float, inside the body or on the float shaft. Float switches that fail due to scale build up or other preventative maintenance related issues are not considered warranty issues and should be billed to the customer.

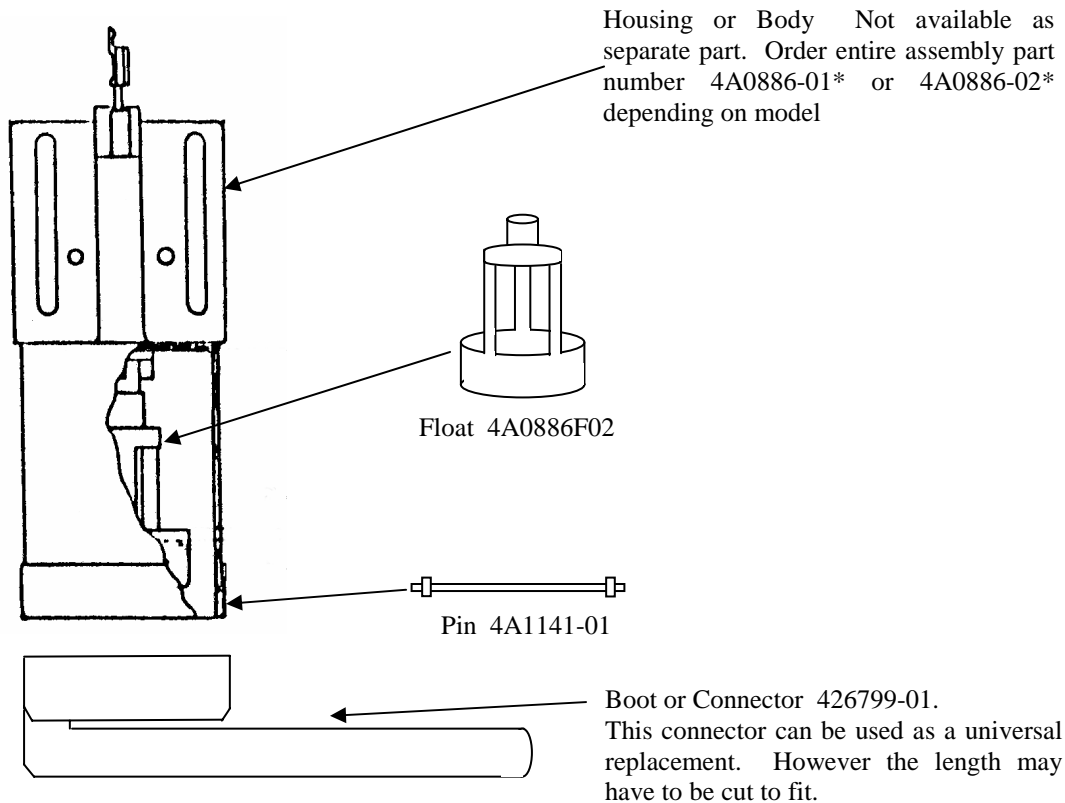
The operation of the float switch can be checked by draining the sump tank and removing the float body from the rubber float switch connector (The KML, KM-150BAF and KM-250B_F units do not use a float switch connector). Then attach an ohmmeter to the float switch leads and check for continuity. If the float is in the up position the switch should read closed. When the float is in the down position it should read open. The float can be moved up and down with your finger, however a better way is to move the float and float body up and down in a container of water. This gives the float a more realistic movement and a more accurate test.

The float switch is composed of three basic parts, the housing or body (which includes the switch), the float and the retaining pin. To improve serviceability and to reduce cost the individual components of the float switch can now be purchased separately. Attached you will find a breakdown of the parts found in the float switch.

On most KM models a rubber float switch connector is used to connect the float and the reservoir. This connector can also affect the float switch operation if dirty or deteriorated. This should also be checked and replaced if necessary when troubleshooting possible float switch problems.

Warranty situations: If the float housing cracks or the switch malfunctions replace the entire float assembly with 4A0886-01* or 4A0886-02*. In the event that the float or retaining pin should crack under normal operating conditions then only the individual defective component should be replaced.

Float switch parts breakdown



*For a universal replacement float switch that will fit any KM model in the field, order part number 4A0886-01. This is a double standpipe float switch. To make it work on a single stand pipe unit, simply install it on the unit and cap the outside power flush stand pipe. You can cover the small hole with a bead of silicone or the protective caps included on a replacement drier # 427061-02 work perfectly for this application. If this hole is not covered, water will be pushed through this hole when the unit goes into the pump out cycle. This water may then spray onto the water pump or out of the machine. This idea should eliminate the necessity to stock two different float switches in your inventory, saving time, cost, and space.