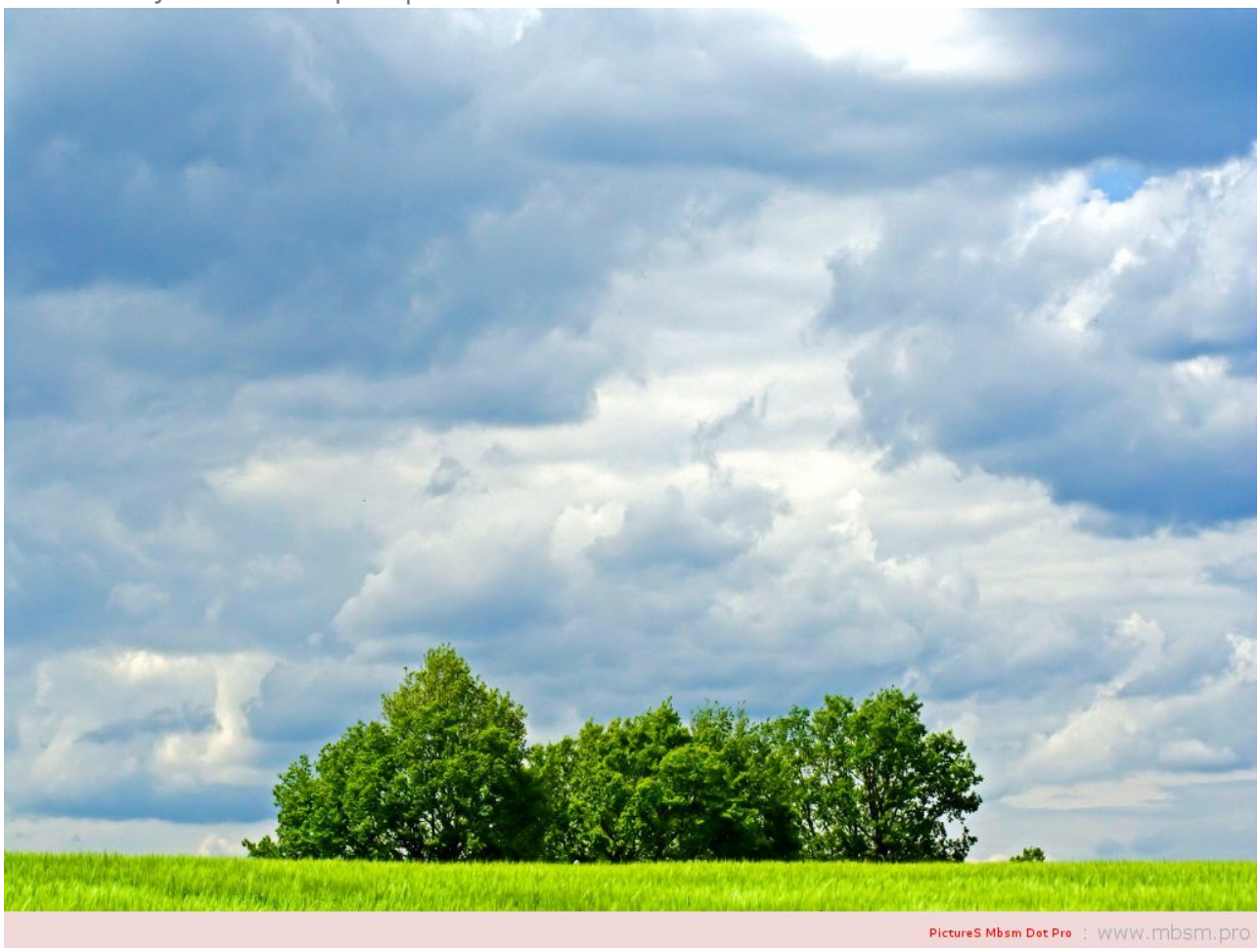
Samsung front-load tub front half assembly: dimensions, components and replacement guide

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The tub front half assembly on Samsung front-load washing machines combines the plastic support ring, EPDM rubber door gasket, drain hose and spring-loaded clamp into one critical sealing unit between the drum and the cabinet front. It defines the loading opening (≈300–330 mm inner diameter) and overall front tub size (≈380–420 mm outer diameter), while controlling water drainage and leak-free operation during high-speed spin cycles.

Main components

- **Plastic support ring (semi tub front)**
  The plastic *semi tub front* forms the rigid structure of the assembly and bolts to the rear half of the outer tub, typically listed in Samsung parts lists as “ASSY SEMI TUB FRONT”. It carries mounting points for the hinge area, latch, front panel screws and hose connections that surround the loading opening.
- **Rubber door gasket (EPDM)**

The grey **EPDM** door gasket works as a flexible diaphragm between the rotating stainless drum and the fixed plastic tub, absorbing vibration and preventing splashes through the door opening. Its lip depth or seal width is typically about 40–60 mm, providing a deep channel that guides water back into the tub instead of toward the door glass.

- **Spring-loaded clamp rings**
  Two metal clamps are usually used: an inner clamp secures the gasket to the plastic tub, and an outer spring clamp band fixes it to the cabinet front panel. The outer band relies on a strong tension spring so that the elastomer lip remains compressed even under drum imbalance and door vibration at high spin speeds.
- **Drain hose connection**
  A molded drain hose stub integrated into the front tub section channels residual water away from the gasket area and lower sump, typically matching Samsung's EPDM drain hoses specified in spare-parts diagrams. Hose internal diameters in this class of machines are commonly within 60–80 mm at the large bellows connection shown in the image, ensuring rapid evacuation and reducing standing water that could cause odors.

Key dimensions from the assembly

The illustration corresponds to a common size range used on 7–9 kg Samsung front-loaders, and the measurements help technicians and spare-parts sellers match non-OEM or compatible tubs and door boots.

Parameter	Typical range (mm)	Technical role
Inner opening diameter	≈300–330	Defines usable drum access and must match door glass and hinge geometry.
Outer tub front diameter	≈380–420	Matches cabinet cut-out and rear tub half for correct bolt alignment.
Seal width / lip depth	≈40–60	Controls how deeply the gasket overlaps the drum rim and door glass to avoid leaks.
Drain-hose connector length	≈60–80	Provides sufficient fall for water to clear the boot and flow to the pump housing.

Such dimensional ranges also influence replacement choices when original part numbers are no longer available, allowing cross-referencing by diameter and seal width.

Typical failure modes and maintenance

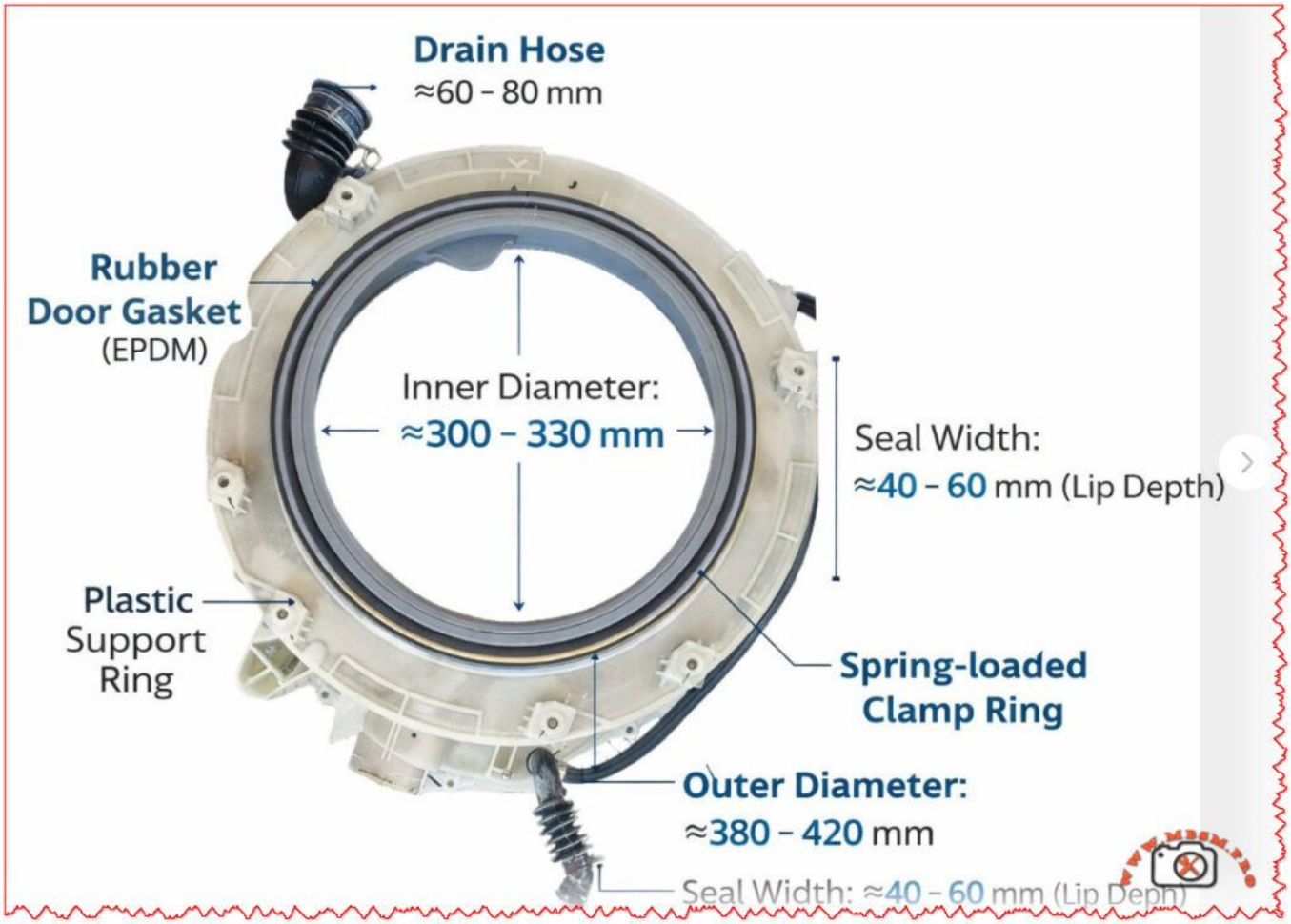
- **Leakage and gasket damage**
  Front leaks usually come from cuts, hardening or mold damage on the EPDM gasket lip, especially around the lower section where coins or sharp objects scrape during spin. Early signs include water tracks on the front panel, standing water in the door boot and musty odors after a cycle.
- **Clamp loosening or mis-seating**
  If the spring clamp is not seated evenly in its groove after service, the boot can pull away from the cabinet, producing intermittent leaks only on high-load

or high-speed programs. Corroded or stretched bands should always be replaced with genuine door-seal clamp kits to maintain uniform radial pressure.

- **Blocked drain hose connection**
  Lint, detergent residue and small objects can partially block the drain hose stub shown at the bottom of the assembly, increasing water retention inside the boot and generating mold growth. Routine cleaning of the filter housing and periodic inspection of the lower hose path reduces these problems and extends component life.

Replacement and selection tips

- **Identifying the correct part**
  The fastest method is to read the full model code from the washer rating label and search for the matching “ASSY SEMI TUB FRONT” or “door boot / diaphragm” in Samsung’s illustrated parts lists or reputable spare-parts catalogues. Where the exact code is unavailable, technicians can use the inner and outer diameters plus seal width shown in the image to select compatible universal boots within the 300–330 mm and 380–420 mm ranges.
- **Installation considerations**
  When replacing the tub front half or door boot, manufacturers recommend removing the front panel, control panel and door lock assembly and carefully transferring hoses and wiring harness clips to the new ring. The gasket must be aligned to witness marks on the tub, with the drain holes positioned at the lowest point and both inner and outer clamps tightened uniformly to prevent wrinkles.
- **Professional vs DIY service**
  Although many guides and videos demonstrate door-boot replacement as a do-it-yourself repair, full tub front-half replacement involves heavy lifting and more extensive disassembly and is better performed by experienced technicians or advanced DIY users with proper support stands. For machines still under manufacturer warranty or covered by extended service contracts, any tub replacement should follow Samsung’s official service procedures and part numbers to maintain coverage.



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