

Phase 2: Product Dissection and Function Diagrams

This phase involved disassembling the blender and developing a preliminary BOM (See Table 3 and 3.1), Function Diagram (See Figure 6), and Structure Diagram (See Figure 7) to determine to key functions and the material of each component.

The following pages show details of the blender assembly (See Figure 3), including the housing subassembly (See Figure 4) and motor (See Figure 5). From the photos, it is apparent that the blender assembly utilized several unnecessary fasteners and required a complicated assembly process that could be improved through the implementation of snap fits and a modified assembly process.

Figure 3: Exploded View: Original Blender Assembly

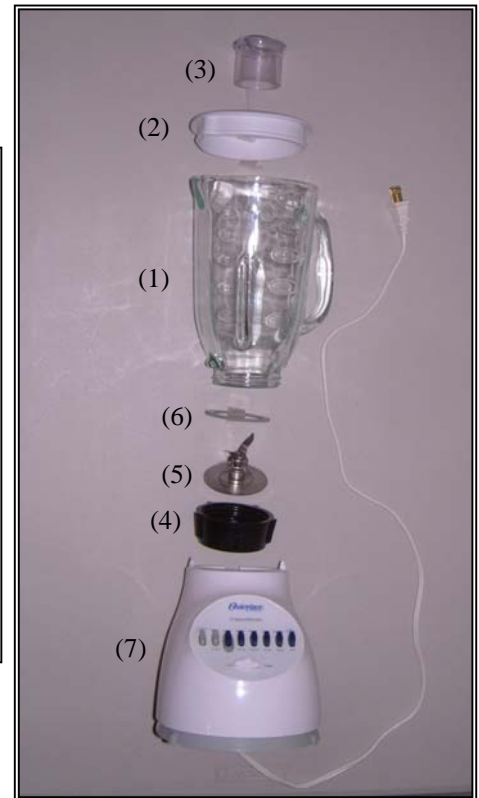
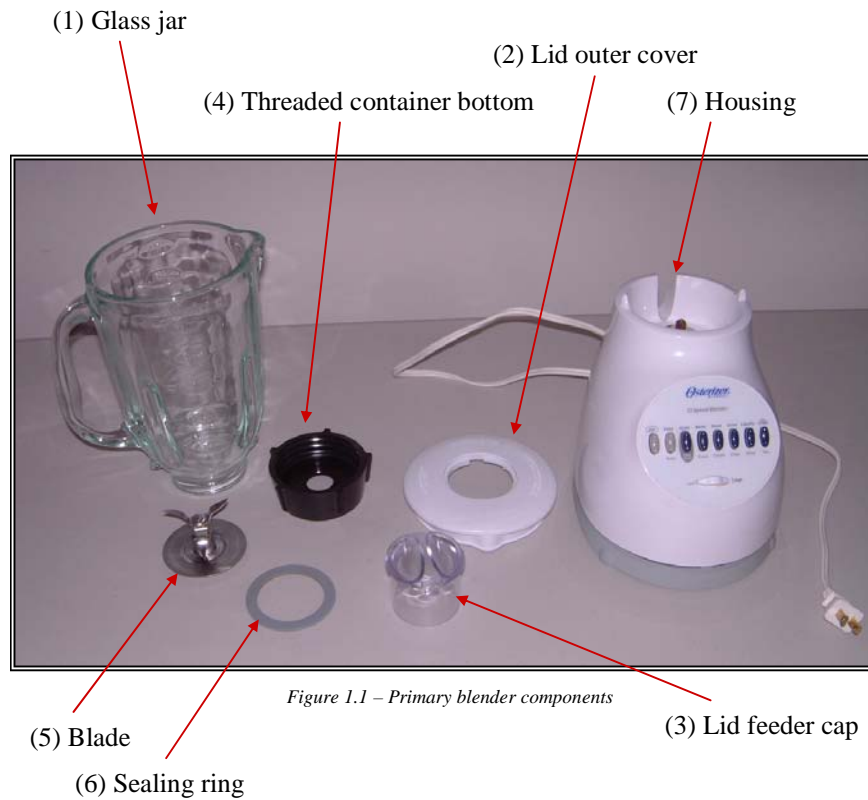


Figure 4: Exploded View: Housing Subassembly

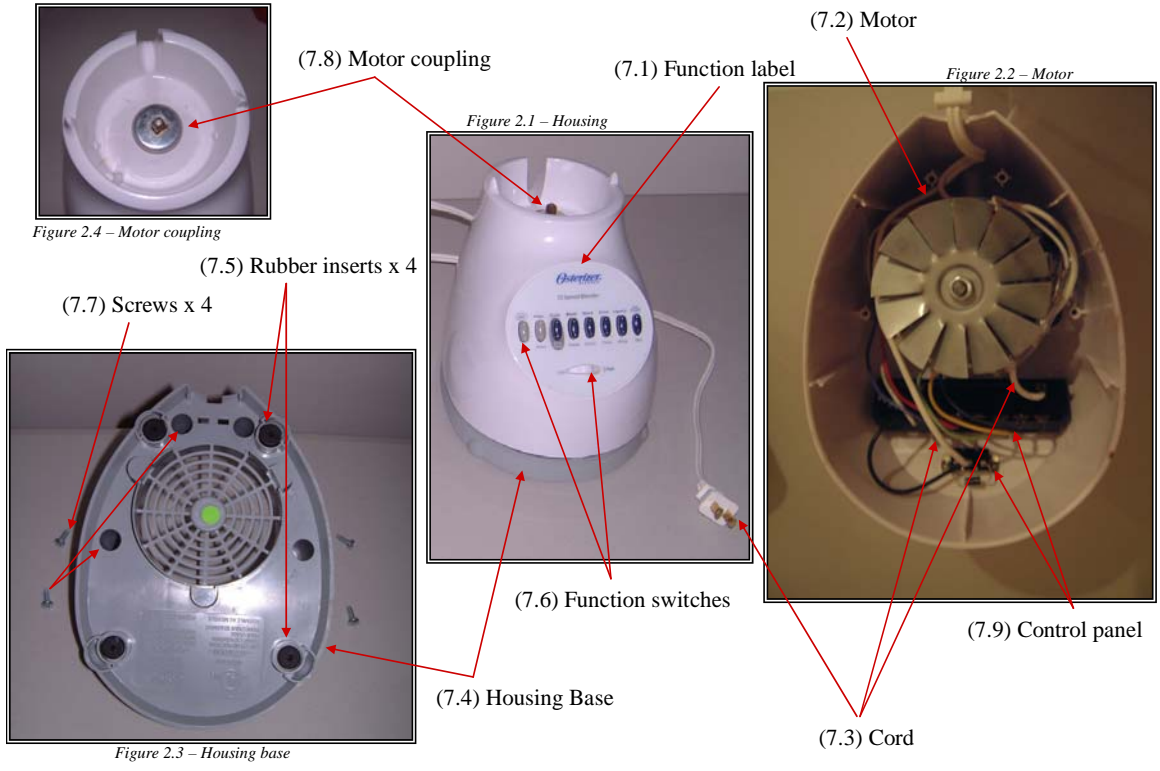


Figure 5: Exploded View: Housing Subassembly (Motor)

