

## Leg Terminology

- 1. Shoulder Horseshoes** These are called horseshoes because they resemble an upside down horseshoe. They have been available in aluminum, but are not likely to be cast in resin due to their size. Larger resin parts will warp as they cure because of the heat released during the process. These have been successfully made from layers of 1/8 inch MDF and Sintra, and are occasionally available as an A&A part in styrene. Overlapped layers allow the inner surfaces to be painted aluminum or chrome to replicate the ridged surfaces, while the outer edges are finished smooth to look like a single, thick piece.
- 2. Shoulder Hub** These are aluminum (or aluminum colored) parts mounted in the round hole created by the shoulder horseshoes. They have been available in aluminum part runs, and are readily available as cast resin parts.
- 3. Booster Covers** Large structures on the side of the leg that (in the movies) split apart to extend Artoo's rocket boosters. These were seen in Episode 2: Attack of the Clones and Episode 3: Revenge of the Sith. These have been offered in aluminum runs, and are readily available in resin. Some builders have made these from wood as well as styrene.
- 4. Leg Struts** Cylindrical lathed pipes that insert into, and run the length of, the booster cover. At the top they are connected to a box on an angle. These are available in resin and have been run in aluminum.
- 5. Main Leg** The main structural part of the leg itself is the base onto which the detail parts are attached. These have also been available in aluminum part runs, separate from the ankle.
- 6. Shoulder Hydraulics** Metallic tube/pipe structure which mount inside the long opening in the shoulder horseshoes. These have been made in aluminum runs and are available in resin.
- 7. Shoulder Buttons** Small metallic cylinders which mount into the two small openings on the shoulder horseshoes. These each have three holes and resemble metal bottle caps. These are available in resin and have been made in aluminum runs.
- 8. Ankle Bracelet** Thin metal plate which caps the top of the ankle. These have been offered in aluminum part runs and have been made in styrene and other plastics.
- 9. Outer Ankle Sides** Also referred to as 'beefy ankle pieces' these refer to the curved portion of the ankle that faces away from the body. They are offered in resin castings, and have been made from wood and tape-ease cylinders.
- 10. Ankle Details** Angular flat parts which are attached to the front and backs of the ankles. These have been offered in aluminum part runs, are available in resin, and have been built from wood and styrene.
- 11. Ankle Cylinder Wedges** Triangular shaped wedges which connect the ankle cylinders to the ankle sides. These are available in resin and have been made in aluminum part runs, as well as built in wood and styrene.
- 12. Ankle Cylinders** Metal-colored cylindrical shaped pipes that mount to the ankle. There is a wide, flattened notch which allows for the appropriate mounting. Runs have been done in aluminum and these are readily available in resin. These have also been made in wood with a lathe.
- 13. Ankle Cylinder Holders** Crescent-shaped parts which attach to the lower portion of the ankle and cradle the ankle cylinder. These are available in resin and have been made in aluminum part runs as well as built from wood.
- 14. Under Shoulder Details** Small structures consisting of a knurled cylindrical shape with smaller pipes attached at a 90 degree angle. Metallic in color, they attach into the recessed area on the undersides of the main leg. These have been made in aluminum part runs and are readily available cast in resin.
- 15. Main Footshell** Trapezoidal shaped foot covering. For most R2 Builders Club droids, these are not structural. These have been made from a variety of materials, are available in styrene flatpacks, have been made in aluminum and steel part runs, and scratchbuilt in wood and grey sheet PVC. Also have been made in fiberglass. Several of the details below have been built into the footshells, especially when cast in fiberglass. Outer footshells are larger than the center footshell.
- 16. Foot Side Plate** Plate which attaches to the foot shell sides, and usually through which the foot motors and drivetrain is accessed. These are usually part of the footshells, and have several detail parts attached to them.
- 17. Half Moon Details** Half moon shaped part which attaches to the foot side plates. These are available in resin and have been made in aluminum part runs, as well as scratchbuilt in wood and styrene. Half moon details for the outer feet are larger than those for the center foot.
- 18. Foot Details** Small raised areas which attach to the side plates. These have been available in aluminum part runs and have been scratchbuilt in wood, styrene and other plastics.
- 19. Battery Boxes** Boxes with curved top and bottom sections, which fit into the insides of the outer feet. These do not necessarily have to hold batteries, but some builders have used them for this purpose. These have been available in aluminum part runs and custom made with thin-wall PVC.
- 20. Battery Box Harnesses** Metallic structures which attach to the upper and lower overhangs on the battery boxes, and give the appearance of latches. These have been available in aluminum runs, and are readily available in resin.
- 21. Foot Hoses** Braided metal hoses which connect the battery boxes to the outer footshells.
- 22. Knurled Fittings** Knurled metallic fittings into which the foot hoses insert. These have been offered in aluminum part runs and are readily available in resin.
- 23. Foot Strips** Thin aluminum strips which attach to the front and back of the feet. On the fronts of the feet, the knurled fittings insert into these foot strips.

