

are irregular in shape, larger on some segments than others. The seventh and eighth abdominal segments are light yellowish brown in colour. Each segment bears a fringe of setæ on its posterior margin, while numerous smaller setæ are scattered over their dorsal surfaces. The setæ constituting the fringe are much shorter than the segments. The cerci consist of two long, slender, two-jointed appendages. They are 2 mm. long, much longer than the seventh and eighth abdominal segments taken together. The 1st segment measures 1.2 mm., while the long seta-like terminal joint measures .8 mm. The basal segment is studded with numerous small setæ. Three long, fine setæ arise at the distal end of each basal segment, and are about half as long as the second segment of the cerci.

The legs are almost white in colour. The coxæ are shorter than the femora. The femora and tibia are armed with stout spines on their ventral surfaces. There are but few setæ on the tarsi and swimming fringes are lacking. The tarsal claws are long and sharp.

The pupa

The pupa is pure white in colour, except the eyes, which are black. It rests upon its back in the pupal chamber. Length 3.5 mm. The head lies incurved upon the prosternum, and is rather abundantly provided with strong, short setæ, which prevent the tender pupa from coming in contact with the fine sand grains. The anterior margin of the pronotum is provided with a row of strong setæ, while numerous smaller setæ are present on the dorsal side of all the thoracic segments. The posterior margin of each abdominal segment is considerably elevated and is provided with a row of strong setæ. The abdomen ends in a pair of large ventral spines measuring .5 mm. By the aid of these spines the pupa is enabled to move about in the chamber, and at the same time prevent injuring itself from coming in contact with the small grains of sand. I do not know how long the pupal period lasts, but not more than a week or ten days.

The adult is a rather prettily-marked beetle, and is represented in fig. 5.