

The through stroke velocity profile should be designed to coordinate with the legs in {air, attach, detach} phase.

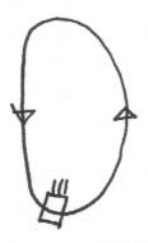


claw disengagement can be done by

- backdriving the crank
- slowing down or stopping the crank and let body motion pull it out.

The latter allows faster continuation unless foot is to be swung up and backdriven up to the attachment angle

Detachment timing



The foot (claws) will want to detach as the foot trajectory deviates away from the straight path.

ALTERNATIVE TO PULLING IN

for increased lateral stability



Grasping foot that has lateral forces internally locally at the foot