

Problem with The Steering.

-As Found Per the calculations in the First Analysis the max load applied to the handle bars is 300 lbf with a Resulting \angle of 92° .

The existing design involves using a cable driven steering column. This works, but due to abuse and neglect the steering assembly now has "slack" and will not turn hardly at all.

-The plan for this is to reinforce the existing attachments to the steering columns to ensure that abuse and neglect will not cause a failure.

-One of the reasons for this failure is too much cable. For the 3" distance needed to go from the steering input to the output of turned wheels there is 70" of cable. This causes loss of input due to stretch in the cable. By eliminating the excess cable the team will have solved the steering problem.