

# SOAP BOX DERBY®



## *Masters Car Plans*

Optional Steering Handbrake Assembly

# General

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1. The steering/handbrake assembly cannot be altered in anyway.
2. The steering/handbrake assembly must be installed per the plans.
3. You are permitted to bend the steering wheel portion of the steering/handbrake assembly down to allow better handclearance if needed.
4. A functional foot brace must be installed with a minimum dimension of 3/4" high x 3" long. Foot brace shall be secured with two fasteners through the floorboard per the plans.
5. The brake cable attachment to the steering wheel eyelet and the brake plunger eyebolt must be double looped and double clamped per the plans.
6. The steering shall be tested to ensure the wheels turn the proper direction and the proper turning radius is achieved per the plans.
7. The handbrake portion shall be tested to ensure that the brake pad contact with the ground shall stop the car.
8. The driver shall understand the steering/handbrake operation prior to use. To ensure the driver understands the operation, the driver shall be tested on a flat area before going down a hill.
9. The Local or Rally Director must inspect the steering/handbrake assembly in the presence of the driver and parent/guardian before the car goes down the hill.
10. A driver with the steering/handbrake shall be given a trial run the first time this steering/handbrake assembly is used in the Masters car.
11. This steering/handbrake assembly cannot be used in any other division (Stock or Super Stock) other than the Masters.

# Assembly

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1. Remove top nut from Steering Handbrake assembly and remove cable keeper. Replace nut and tighten.
2. Steering Kit - Follow Step 5 in Masters Plans.
3. Brake Pad Installation - Follow Step 6 in Masters Plans.
4. Steering Assembly - Follow Step 8 in Masters Plans.

## Brake Cable Assembly

1. Install  $\frac{1}{4}$ " bolt through arm of steering handbrake assembly.
2. Add  $\frac{1}{4}$ " flat washer.
3. Add pulley.
4. Add Cable keeper.
5. Add  $\frac{1}{4}$ " lock washer.
6. Add  $\frac{1}{4}$ -20 nut. Tighten. See Photo 1.
7. Install  $\frac{1}{4}$ " bolt through base of steering handbrake assembly.
8. Add  $\frac{1}{4}$ " flat washer.
9. Add pulley.
10. Add  $\frac{1}{4}$ " lock washer.
11. Add  $\frac{1}{4}$ -20 nut. Finger tighten See Photo 2.
12. Place two cable clamps on one end of brake cable and thread it through the eye bolt located on the brake plunger. Must be double looped and double clamped.
13. Thread the brake cable through both cable clamps. Tighten each clamp.
14. Thread the brake cable down beside the brake plunger and under the pulley. Tighten the cable pulley (make sure the brake cable is underneath the pulley).
15. Thread the brake cable up over the top pulley.
16. Thread the brake cable through two cable clamps.
17. Thread the brake cable through the hole in the flat figure eight washer. Can be single or double looped.
18. Thread the brake cable through both cable clamps. Tighten each clamp. Cut off excess brake cable. Loose ends may be taped together. See Photo 3.



# Photo



Photo 1

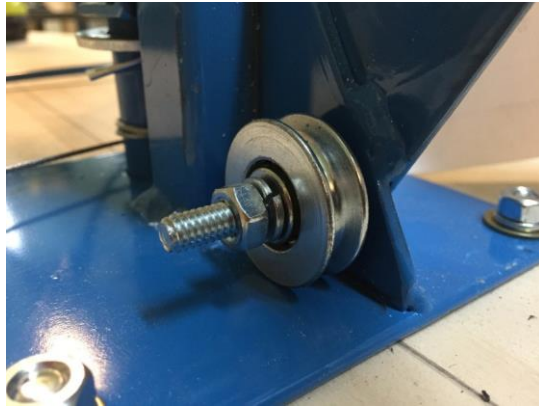


Photo 2

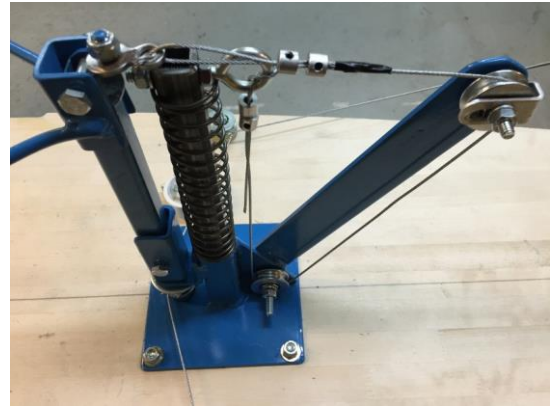


Photo 3

