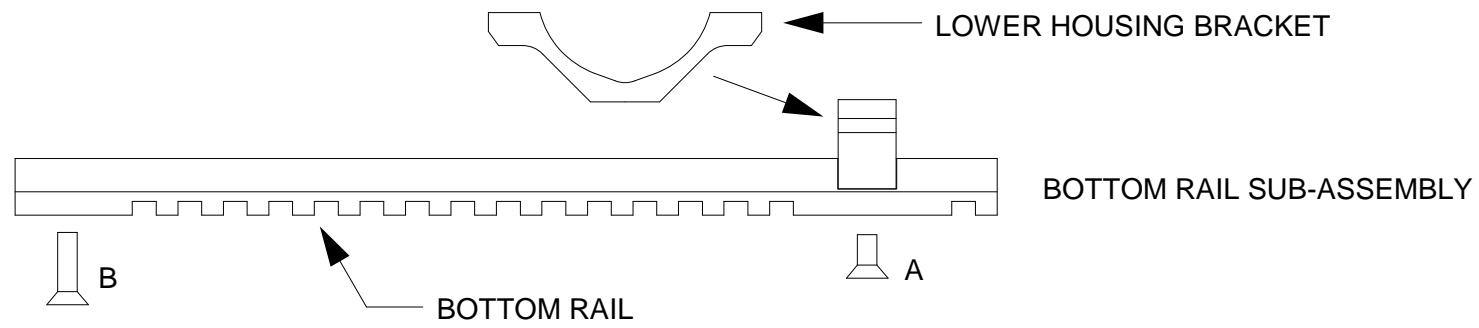
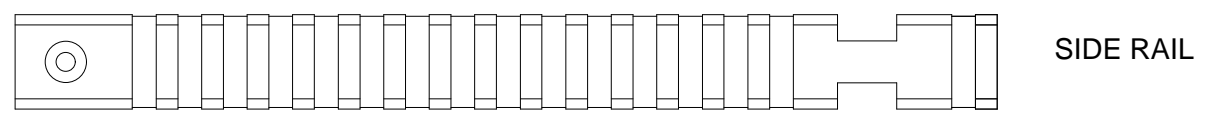
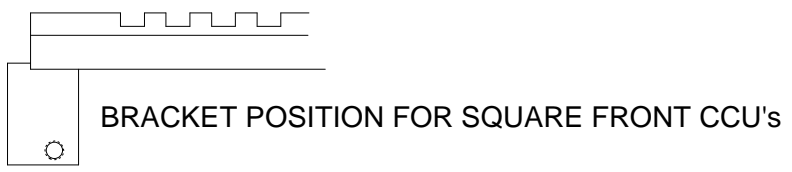
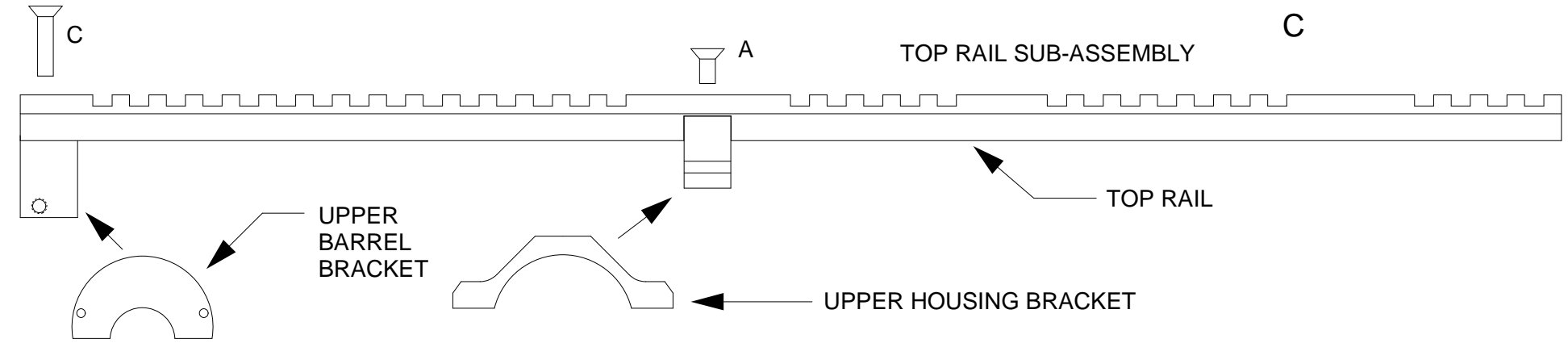


MECH TECH SYSTEMS INC.- QUADRAIL SUB-ASSEMBLY

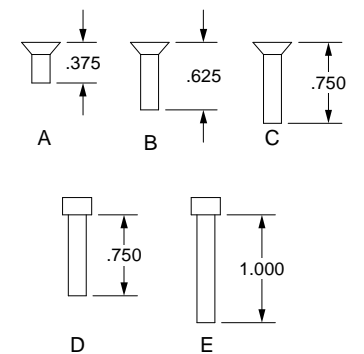
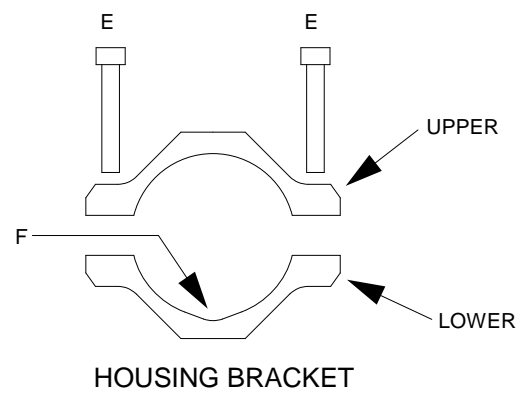
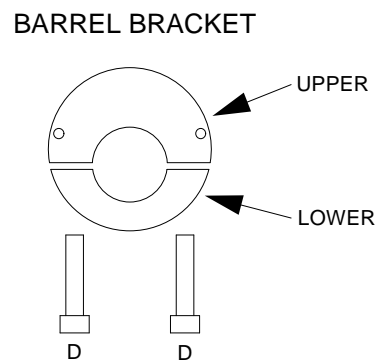
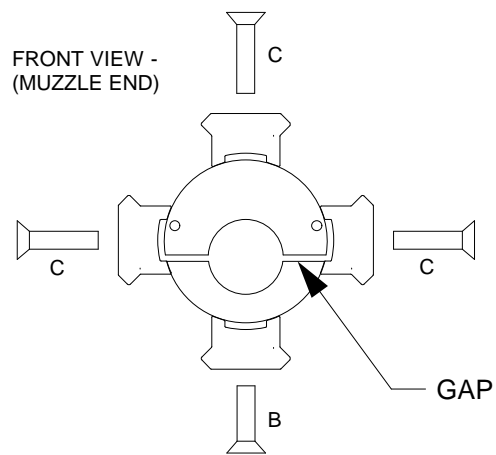
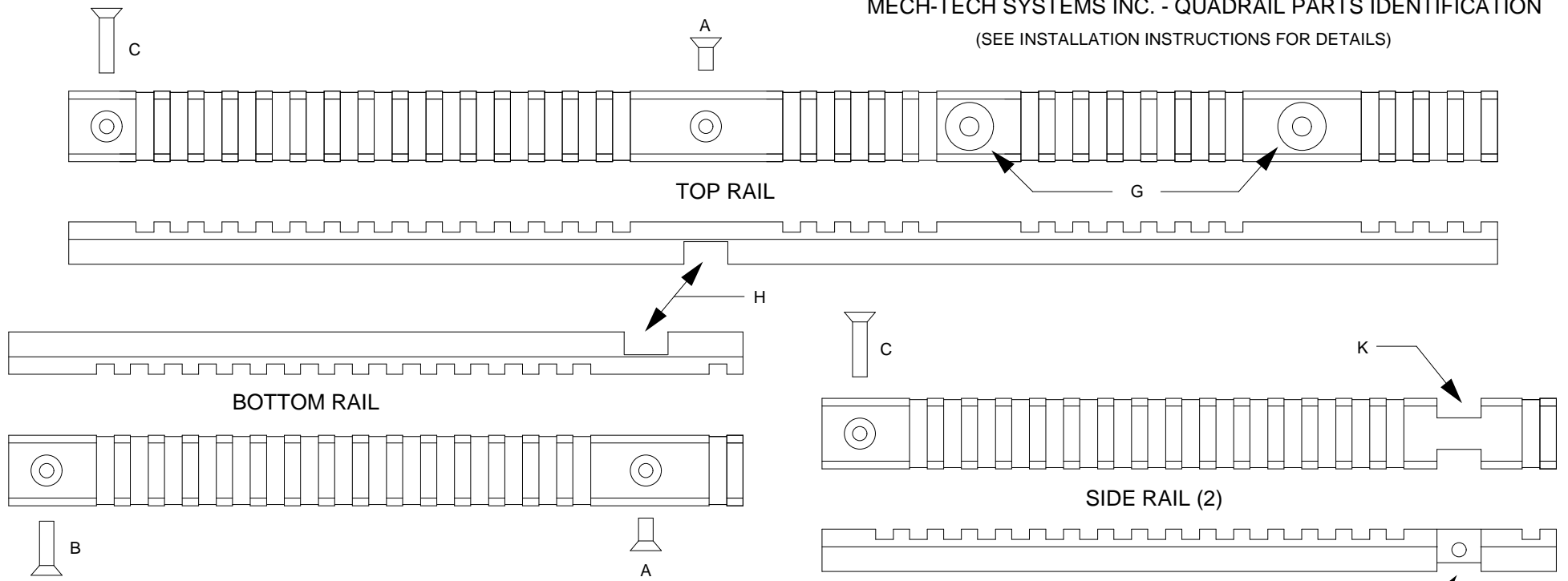
(SEE INSTALLATION INSTRUCTIONS FOR DETAILS)

← MUZZLE



MECH-TECH SYSTEMS INC. - QUADRAIL PARTS IDENTIFICATION

(SEE INSTALLATION INSTRUCTIONS FOR DETAILS)



Quadrail CCU accessory installation instructions

Shown below in FIG.1 is a Quadrail properly installed on a CCU.

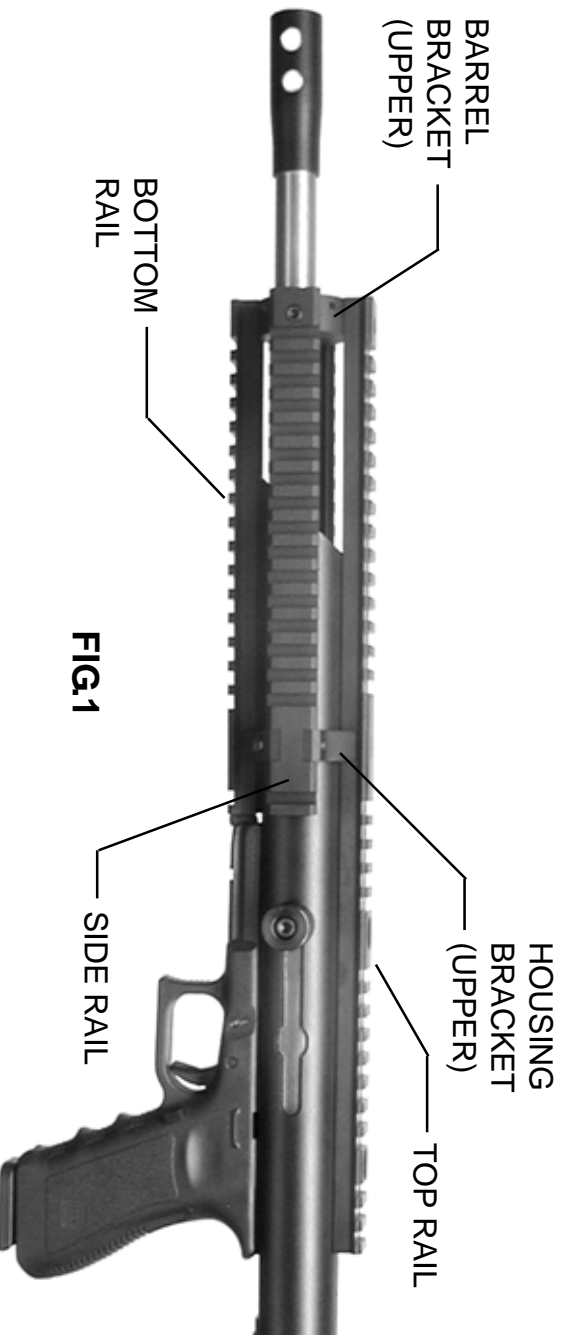


FIG.1

Refer to Sheet 1 and Sheet 2 drawings to understand the various parts of the Quadrail system. On Sheet 1 is shown the parts of the Quadrail. Firstly observe the screws. There are 5 different screws used in the assembly. These are shown at the lower right of Sheet 1. There are 3 flathead cap screw sizes - A, B and C and there are 2 socket head cap screw sizes - D and E. It is important that the correct screw length and style be placed in the correct assembly locations. Secondly, observe the mounting bracket system. The Barrel Bracket consists of 2 pieces - an upper and lower. The Housing bracket also consists of 2 pieces - upper and lower. As with the Barrel Bracket, the Housing Bracket upper and lower are not the same. The lower Housing Bracket is identified by the presence of the feature labeled 'F' and it also has threaded holes to accept the cap screws. The correct assembly screws are identified in the drawings of these bracket systems. Thirdly observe the rails. The longest rail is the Top Rail and the shorter rails are the Side Rails (2 of these) and the Bottom Rail. The side rails are different from the bottom rail. The orientation of the rails relative to each other is correctly shown in FIG.1&2 and Sheet 2. Sheet 2 shows the sub-assemblies and their orientation with respect to the CCU - muzzle end is to the left.

Step 1: Remove the short rail, which comes with the CCU, from the CCU housing.

Step 2: Remove the foregrip - it is not used when the Quadrail is installed. To do this remove the 8 screws (4 on each side of the CCU) which retain the foregrip and then remove the foregrip. After the foregrip is removed replace the 8 screws. Be careful not to cross thread these screws. Also note that the screw heads rest totally inside the respective clearance holes in the main housing and do not actually clamp on the housing. Do not excessively tighten these screws but make certain they are snug.

Step 3: Assemble the upper Barrel Bracket and the upper Housing Bracket to the Top Rail as shown. (Sheet 2) Note that the upper Barrel Bracket can be assembled to the Top Rail in 2 ways. The screw hole in the upper Barrel Bracket for attaching the Top Rail is not centered in the bracket. There exists two versions of the CCU housing - one with an angled front and the latest design with a square front. For use with the square front the Upper Bracket is oriented as shown on Sheet 2. Use the correct screw style and length. Lightly tighten the respective screws - not fully tight at this point.

Step 4: Place the Top Rail sub-assembly from Step 2 above onto the CCU housing such that the two threaded studs attached to the housing mate with the two holes in the Top Rail, labeled 'G' on Sheet 1. At this point the upper Barrel Bracket should be resting on the CCU barrel. Install the 2 hex nuts onto the threaded studs and lightly tighten. The Top Rail should now be in place on the CCU housing.

Quadrail CCU accessory installation instructions

Below is FIG.2 - a Quadrail assembly as it would look not mounted on a CCU.



FIG. 2

Step 5: Assemble the lower Barrel Bracket to the upper Barrel Bracket using the correct screws (labeled 'D' on Sheet 1). Note that the lower bracket can be oriented in two ways. The correct way depends on the orientation chosen for the Upper Bracket and should be such that the Lower Bracket is centered horizontally with the Upper Bracket when the clamp screws are installed. Lightly tighten the clamp screws making certain that the gap between upper and lower brackets is about equal on the right and left sides. See Sheet 1 'Front View (Muzzle End)' drawing to identify the gap in question.

Step 6: Assemble the lower Housing Bracket into the slot in the Bottom Rail (labeled 'H' on Sheet 1). Use the correct screw, labeled 'A' on Sheet 1. *Lightly* tighten the screw.

Step 7: Place the Bottom Rail sub-assembly onto the CCU housing such that the Housing Brackets line up with each other horizontally and there is an equal gap between the brackets on the right and left sides of the housing. Install the correct screw (labeled 'B' on Sheet 1) at the muzzle end of the Bottom Rail and *lightly* tighten.

Step 8: Place the Side Rails into position such that the 'notches' at the rear of the rails (labeled 'K' on Sheet 1) interface with the upper and lower Housing Brackets (see photos FIG.1 & 2). While holding the rails in place install the correct screws (labeled 'E' on Sheet 1) vertically through the upper Housing Bracket and Side Rail clearance holes and engage carefully the threads in the lower Housing Bracket. Leave both of the screws loose. Now install the correct front screws (labeled 'C' on Sheet 1).

Step 9: Carefully examine the entire setup for correct alignment and screws.

Step 10: Tighten the hex nuts which retain the rear of the Top Rail to the housing. Do not over tighten - we don't want to strip the stud threads.

Step 11: Tighten fully the screw at the front of the Top Rail which secures the rail to the upper Barrel Bracket. Do not over tighten. The bracket threads and bracket are machined from aluminum metal.

Step 12: Alternately tighten the Barrel Bracket screws (labeled 'D' on Sheet 1) being certain to maintain an equal gap on the right and left sides.

Step 13: Tighten the front screws which retain the side rails to the Barrel Bracket.

Step 14: Tighten the front screw which retains the Bottom Rail to the Barrel Bracket.

Step 15: Alternately tighten the screws which secure the Housing Brackets and Side Rails. Be certain to tighten sufficiently to bring the brackets tightly in contact with the bottoms of the 'notches' on both Side Rails. If all is done correctly the assembly is finished.