



Machining of Fork Base

12 holes equally spaced
on R4.75-inch circle
tapped for 3/8-16 screws
2 inches deep

0.003 A
0.001 S

0.002 A
0.0005 over 10 inches

To prepare the base, machine flat after stress relief to within ± 0.01 inches; attach bearing plate and machine the bearing surface (a zone 6 inches wide centered at R29.5) flat to within 0.0005 inches over distances of 10 inches and 0.002 inches over distances of >20 inches. For mating with part 2-001, machine a flat around the center hole of the base, within 6 inches of the center, bore a shoulder 0.3 ± 0.02 inches deep (datum C in cross sectional drawing), and drill and tap the 12 holes for screws to attach part 2-001. These screw holes may go all the way through the base plate. See drawing AST-03-R08 for machining top surface of base.

0.001 B
0.0015 C

$\phi 8.752$
 ± 0.001

Tenn. State Univ.	
CASS 2-m AST Project	
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J.A.E.	