



**Quarter Midgets of America, Inc.**  
**ANIMAL TECH INSPECTION WORK SHEET**

Class: \_\_\_\_\_ Animal

Driver Name: \_\_\_\_\_ Car #: \_\_\_\_\_ Date: \_\_\_\_\_

**Check OK**

Finish Position: \_\_\_\_\_

1	Carburetor Stock PZ22 / New Briggs Carb with Logo	
2	Jr. Animal (Blue Plate 0.521 max) Sr. Animal (Gold Plate 0.5725 max)	
3	Idle Jet Stock any size hole	
4	Main Jet Stock any size hole	
5	Intake manifold Stock 1.740 to 1.760 length . Bore Diameter 0.885 to 0.905 Max.	
6	Max valve lift at valve 2.258	
7	Timing 23 degree BTDC to 27 BTDC max	
8	Head Gasket 0.038 min / multi-layer head gasket BSA-304-40	
9	Cylinder head Gasket surface non tech min head thickness between the two valves 0.319	
10	Valve seats 45 degrees only	
11	Intake valve seat 0.965 min 0.972 max	
12	Exhaust valve seat 0.844 min 0.850 max	
13	Valve 45 degrees only	
14	Intake valve head 1.055 min 1.065 max exhaust valve 0.935 min 0.945 max	
15	Stem intake & exhaust 0.246 min 0.247 max	
16	Weight Intake min 29.26 grams exhaust 28.00 grams	
17	Spring Diameter 0.103 to 0.105 4.25 to 4.75 coils Length .930 Max 15 lbs. at 0 .812	
18	Rocker Ball diameter 0.590 min 0.610 max	
19	Piston pop up 0 .007 max	
20	Engine Block Bore 2.693 max	
21	Stroke 2.205 MAX	
22	Aluminum Fly wheel and Green coil	
23	Piston Stock pin hole to top of piston 0.660 to 0.662 max	
24	Weight complete piston, pin, clips, rings, rod and bolts 349 grams min	
25	Rings stock top and second ring 0 marked on top of ring	
26	Wrist pin stock 0.624 to 0.626 max	
27	Rod length 2.419 to 2.429 max	
28	Crankshaft stock B&S Splined Crank	
29	Crank journal 1.094 to 1.110 max	
30	Cam shaft stock profile in block	
31	Tappets 0.825 to 0.845 Exhaust only 0.964 to 0.984	
32	Gear Box B&S gearbox only	

Tech Official Signature: \_\_\_\_\_ Engine: \_\_\_\_\_ Pass \_\_\_\_\_ Fail