



Quarter Midgets of America, Inc.

ANIMAL TECH INSPECTION WORK SHEET

Class: _____ Animal

Finish Position: _____

Driver Name: _____ Car #: _____ Date: _____ **Check OK**

1	Carburetor Stock PZ22 / New Briggs Carb with Logo (P/N:590890)	
2	Jr. Animal (Blue Plate 0.251 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 0.258	
7	Timing 31 degrees BTDC max @ 2000 rpms	
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 factory spec of 45 and 30 degree angles 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 27.90 grams exhaust 27.70 grams	
17	Spring Diameter 0.103 to 0.107. Coil Length 4.00 to 4.75 Valve Spring Length .950 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 2.206 MAX	
22	Aluminum Fly wheel and Green coil Unaltered B&S stock ignition part #555718 or #84011138	
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	Diameter of Big End = 1.005 inch max	
29	Diameter of Small End = .6265 inch max	
30	Crankshaft stock B&S Splined Crank	
31	Crank journal 1.094 to 1.100 max	
32	Cam shaft stock profile in block	
33	Tappets 0.820 to 0.860	
34	Gear Box B&S gearbox only	

ANY QUESTIONS OR DIFFERENCES SEE UPDATED TECH MANUAL FOR FURTHER INSPECTIONS ANIMAL