

1.5 Stock Inspection Sheet (REVISED 4/20)

Regatta: _____ Date: _____ Boat # _____

- **Length:** (Min: 14'6" Max: 17'6") _____
- **Width:** (Max: 9'6") _____
- **Weight:** (Min: 825 lbs.) _____
- **Fuel Type** _____
 - Specific Gravity _____ (0.715-0.765 @60°F)
 - Digatron Reading _____ (Must be negative)

Toyota 4AC Engine

- **Carburetor**

As listed below. No grinding or polishing allowed. It shall be permissible to remove the choke plate and plug the holes.

Carburetor	Venturi	Throttle bore	Measured (V)	Measured (TB)
Autolite, Holley, Motorcraft 5200	Primary 1.030" Secondary 1.070"	Primary 1.260" Secondary 1.417"		
Weber32/36DFAV	As above	As above		
Weber32/36DFEV	As above	As above		

The total dimension of wedge and gaskets measured from the intake manifold to carb base shall not exceed 1inch. Measurement: _____ (No more than 1")

- **Intake Manifold**

As supplied from OEM. No internal modifications allowed. If a crack develops it is permissible to repair by weld from the outside with no grinding or modifications to the inside runner/plenum area

OK _____ Failed _____

- **Camshaft/Rockers**

Any camshaft may be used provided it matches the OEM profile listed in the class rules. No modifications to the rockers or rocker related equipment

Rockers and parts OK _____ Failed _____

- **Cylinder Head**

No porting, grinding or alteration of any kind in the ports or chambers.

3 angle valve job allowed, the bottom throat angle must not exceed .250" below the second seat angle

Any valve spring may be used provided it fits the OEM retainer and requires no head modifications

Combustion Chamber minimum is 30cc

Head Gasket .043" minimum compressed thickness _____ (.043" Minimum)

Head OK _____

Combustion Chamber Volume Measured _____ (30cc+)

- **Valves**

Intake Measurement _____ (1.417")

Exhaust Measurement _____ (1.221")

- **Pistons/Rings**

Any Cast stock replacement piston for the 4AC engine may be used. No milling of piston tops allowed.

Rings must be stock replacement type

Top ring must be a minimum of .225" below the piston top

Pistons may not protrude the deck more than .005"

Top ring measurement from top of piston _____ (.225" Minimum)

Piston/Block deck height _____ (.005 protrusion from block Maximum)

OK _____ Failed _____

- **Cam Profile**

- Install the dial indicator on the valve retainer with the cam on the base circle and lash at the rocker. Tighten the lash at the valve until the dial indicator reads .001". With this done rotate the engine in the normal direction until 0.050 inches valve lift, stop. Set the degree wheel to 0 degrees. From this point turn the engine in the normal direction stopping every listed valve lift and record the degrees below.

Intake		Exhaust	
Lift	Degrees	Lift	Degrees
.050	0 _____	.050	0 _____
.100	7.5 _____	.100	6 _____
.150	12.5 _____	.150	12 _____
.200	18 _____	.200	17.5 _____
.250	23.5 _____	.250	23 _____
.300	30.5 _____	.300	30 _____
.350	43 _____	.350	42 _____
.364	51 _____	.364	51.5 _____
.350	56 _____	.350	60 _____
.300	69 _____	.300	71 _____
.250	76 _____	.250	78.5 _____
.200	82 _____	.200	84 _____
.150	87 _____	.150	89 _____
.100	92.5 _____	.100	95 _____
.050	99 _____	.050	101 _____

- **Camshaft Lobe Separation**

Lobe Spacing Procedure – Adjust lash on intake to zero, install the dial indicator on the retainer and rotate to .005" lift. Set degree wheel on distributor to zero. Rotate until .050" lift on the intake, record the degree reading. Repeat above procedure by setting the exhaust at zero lash WITHOUT resetting the degree wheel, rotate to .050" and record the reading. The 1st reading will be subtracted from the

second which should net 107 degrees.

Ford SCCA Engine

- Must have all SCCA seals in place other than oil pan. Pass _____ Failed _____
- Seal must be in place on the ECU Pass _____ Failed _____
- **Engine Timing** – check by setting timing light to 20 degrees, arrow and pointer must line up on cam gear
Pass _____ Failed _____
- Throttle Body Size 1.570" Pass _____ Failed _____
- Must have short hub 7/8" propeller Pass _____ Failed _____

Chief Inspector _____ APBA # _____

Inspector _____ APBA # _____

Referee _____ APBA# _____

Inboard Commissioner _____ APBA# _____

Boat Owner's signature _____ APBA# _____