# E 350 Inspection Sheet (REVISED 4/2020)

Regatta:	Date:	Boat #
• Length: (Min: 16', M	ax: 21')	
<ul> <li>Width: (Max: 11')</li> </ul>		
• Weight: (Min:1525	bs.)	
Fuel Type		
<ul> <li>Specific Grav</li> </ul>	vity(0	.715-0.765 @60°F)
<ul> <li>Digatron Re</li> </ul>	ading	(Must be negative)
Compression Ratio	(9.19:1 (+0.1 or 9.29:1 N	Лах)
<ul> <li>Whistler rea</li> </ul>	ding:	

Carburetor	Venturi	Throttle bore	Measured (V)	Measured (TB)
0-4412, HP 0-80583-1	1.375″	1.687"		

Notes:

- Choke plate may be removed but no removal of choke housing.
- No other visible modifications allowed on or inside the carburetor.
- Standard boosters only and must be tightly mounted. No annular boosters. Epoxying or safety wiring of boosters recommended.
- No vacuum leaks. No turtles or other induction performance enhancing devices. No other systems allowed.
- The use of two return springs is mandatory. An over-center throttle stop is recommended.
- Carburetor adapter (Spacer) Bicknell #376 (Max.1.00") only, no modification allowed to adapter.
  - Measured:
- Maximum size thickness straight bore spacer of 1.00". Maximum of 3 gaskets for a total thickness of 0.266" allowed.
  - Measured:
  - Intake Manifold Edelbrock 7101 dual plane aluminum
    - $\circ \quad \mbox{Cooling bleed lines allowed.}$
    - Any evidence of sanding, polishing, relieving, grinding, porting, chemical treating, abrasive blasting, ceramic work, addition of material or any alteration and modification of the original form is prohibited.
  - Block:
    - Stock cast iron production GM V-8 style block Identification numbers may not be removed. No grinding or lighting allowed on stock block or optional Dart block.
    - A maximum of three cylinder bores and/or a maximum of seven lifter bores may be sleeved. (No indexing lifter bores)
    - Optional Aftermarket engine block permitted: Dart SHP P/N: 31161111.
    - Block type:\_
    - Bore: 4.00" +0.040 maximum, Measurement: \_\_\_\_\_"
  - **Ignition:** Any factory stock HEI type ignition only. No crank triggers. No external super coils. No aftermarket multiple spark discharge control boxes. Firing order must remain stock GM:1.8.4.3.6.5.7.2.

#### **Cam Profiles:**

Procedure: Rotate engine in normal direction until the lifter is on the heel of the camshaft lobe. Set dial indicator on valve spring retainer being sure it is parallel to the valve stem. Adjust valve lash until dial indicator reads .001. Set dial indicator back to zero. Rotate engine in normal direction until indicator reads .050 stop. Set degree wheel to zero degrees or TDC mark on degree wheel. Rotate engine in normal direction and check every .050 thousandths lift. Read degrees on degree wheel and note below.

٠	EXHAUST	COMP	A	СНА		INTAKE	COMP	AC	HA
•	.050	0		0		.050	0		0
•	.100	6		5.5		.100	6		5
•	.150	11		10.5		.150	11		10
٠	.200	16		15.5		.200	16		15
•	.250	21		20		.250	20.5		19.5
•	.300	26		25		.300	25.5		24.5
•	.350	31		30.5		.350	30.5		30.5
•	.400	37		37		.400	37		37.5
•	.450	44.5		47		.450	45		49.5
•	.488	51	.471	59.5		.477	51	.458	57.5
•	.450	77		72		.450	73		66
•	.400	85		81		.400	81		77.5
•	.350	91		87.5		.350	87.5		84
•	.300	96		93		.300	92.5		89.5
•	.250	101		98		.250	97		94.5
•	.200	105.5		103		.200	102		99
•	.150	110.5		108		.150	107		104
•	.100	115.5		113		.100	112		109
•	.050	122		119		.050	118.5		114.5
*Max Intake lift Comp .477" , <b>Measured:</b>									

\*Max Exhaust lift Comp .488", Measured:\_\_\_\_\_\_ \*\*Max Intake Lift ACHA .458", Measured \_\_\_\_\_\_ \*\*Max Exhaust Lift ACHA .471" Measured \_\_\_\_\_\_

> Lobe Center Measurement Comp 110\* Lobe Center Measurement ACHA 112\*

#### • Engine

• Pistons

 No portion of the piston may protrude above the top of the block (measurement excludes head gaskets). Measurement: \_\_\_\_\_\_"

#### Head:

- Only allowable head is Dart Part #:10021070 Dart Iron Eagle S/S 165
- **Gasket/Port Matching** It shall be permissible to perform a minor port match on the intake ports of the heads and intake manifold at the flange mating surface of each if a minimum hull weight of 1,700lbs with driver is met. The heads shall meet rule 45.3.10 in its entirety other than this modification. The intake shall meet rule 45.3.12 in its entirety other than this modification. Dimensions shall be as follows:

Maximum width to the outside wall of both ports shall be 2.70"

Maximum width of each port wall to wall shall be 1.25" each

Minimum width of port dividing wall shall be .200" Maximum height of each port shall be 1.975" Maximum port intrusion measured from the flange face of heads/intake shall be .625" Maximum Intake port volume will be 178cc

- There will be no tolerance to the above max/min measurements
- Check for evidence of illegal modifications to ports/chambers
- Minimum combustion chamber volume, 64cc: Measurement\_\_\_\_\_\_
- Intake runner volume 175cc ±2cc Measurement:\_\_\_\_\_\_
- Exhaust runner volume 70cc ±2cc Measurement:\_\_\_\_\_\_

#### • Valves:

- Valve Modification It shall be permissible to back cut valves that meet rule 45.3.11 above in its entirety if a minimum hull weight of 1,700lbs with driver is met. The maximum distance of the required 45\* seat angle and the back cut may not exceed more than .250" as measured from the edge of the valve.
  - Intake: Max. 1.940"\_\_\_\_\_
    - No back cutting allowed \_\_\_\_\_\_
    - Valve stem diameter: Min. .340"\_\_\_\_\_

# • Exhaust: Max. 1.500"\_\_\_\_\_

- No back cutting allowed
- Valve stem diameter: Min. 0.340"\_
- Seats/Valve Face: 45°
  - Intake
  - Exhaust\_\_\_\_\_
- Valve Springs:
  - O.D. 1.250" ±0.010""\_\_\_\_\_
  - Retainer: Must be steel

## • Lifters & Misc:

- Stock sized push rods only 0.3125":\_\_\_\_\_\_
- Rocker arms ratio 1.5 only:\_\_\_\_\_
- Stroke 3.48"\_\_\_\_\_
- No shaft rockers, stud girdles allowed
- Double roller timing chains allowed, no gear drives

## NOTES:

- Check all parts for any grinding, polishing and any other alterations from the furnished stock configuration
- The above procedure **DOES NOT** override a complete dismantle of the engine to check weights of rotating/reciprocating parts, and other necessary measurements needed for a record or protest

Chief Inspector/APBA #	
Inspector/APBA #	
Referee/APBA#	
Inboard Commissioner/APBA#	
Boat Owner's signature /APBA#	