



## N351 Sportsman Cylinder Head

# TRUE BLUE.

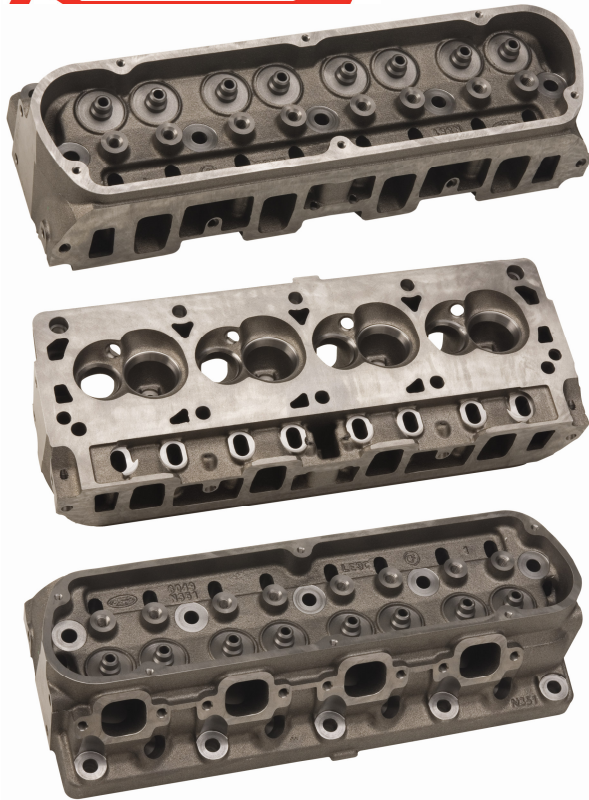
**Real POWER**

**Real PERFORMANCE**

**Real SUBSTANCE**

**Real VALUE**

Ford Racing offers factory engineered parts for the Sportsman Circle Track Racer. The N351 cylinder head has been retooled and is now in stock and ready to ship. Designed for Ford engines in NASCAR Whelen Series, IMCA, WISSOTA, UARA, and most other stock car sanctioning groups on 351W engines. Developed by Ford Racing with the help of Robert Yates



Long Brothers & Setzer – NASCAR Late Model Stock



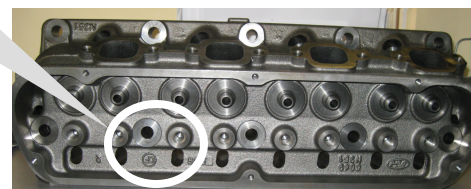
Buzzy Adams – 2008 WISSOTA Modified Champion

- Machined for 2.02" intake and 1.60" exhaust valve diameters
- Intake and exhaust valves have been moved .070" to unshroud the intake valve
- 10 degree valve angle to further improve air flow
- Thick deck and reinforced structure for improved sealing, increased section thickness in critical areas and webbed rocker bosses for improved strength.
- Designed for stud mount rocker arms.
- Compatible with Aftermarket and Ford Racing intakes



This casting mark will be present on all heads produced by the new tooling.

Cylinder head includes tracking date stamped in the machined surface on the end of the head





<b>Ford Racing N351 Sportsman Cylinder Head</b>	
Head part number	M-6049-N351
Head material	Cast iron
Intake port location	Stock
Intake port volume	200cc (+/- 2cc)
Intake valve part number	M-6507-A351
Intake Valve Head Diameter	2.02
Intake valve length	5.120" Overall length
Intake valve material	Stainless steel
Intake valve stem diameter	11/32
Intake guide material	Cast iron
Intake valve seat material	Cast iron
Exhaust port location	Custom
Exhaust port volume	82cc (+/- 2cc)
Exhaust valve part number	M-6505-A351
Exhaust valve head diameter	1.6
Exhaust valve length	5.130" Overall length
Exhaust valve material	Stainless steel
Exhaust valve stem diameter	11/32
Exhaust valve guide material	Cast iron
Exhaust seat material	Cast iron
Combustion chamber volume	64.0 cc's
Deck thickness	.400" (+/- .030)
Rocker stud part number	M-6527-C311
Pushrod guide plate part number	M-6566-D351
Weight	51 lbs.

#### **Recommended accessories**

Intake gasket	M-9439-A50
Exhaust gasket	M-9448-A351
Head gasket	M-6051-CP331
Head bolts-studs	Check block applications
Valve Covers	M-6582-E302P
Spark plugs	.708" reach taper seat

#### **Airflow**

Baseline Airflow data out of the box condition

2.02" intake valve M-6507-A351

1.60" exhaust valve M-6505-A351

4.060" Bore Clay radius approx. 1/2" intake side only

Lift at valve - inches	Airflow - CFM - at 28 inches of water	
	Intake	Exhaust
0.100"	67.6	54.2
0.200"	141.5	104.1
0.300"	193.8	131.4
0.400"	213.2	147.1
0.500"	228.0	157.2
0.600"	241.1	165.7

**Want to learn more about Ford Short Track Components**  
**Contact Ford Racing Sportsman Circle Track Program Manager Mike Delahanty**  
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