

# NHRA Technical Specifications

## For 1962 Pontiac Motors

BORE	STROKE	DISPLACEMENT	CYLINDERS	ROD LENGTH	
4.063	3.750	195	4	6.625	
3.500	2.800	215	8	5.660	
4.062	3.750	389	8	6.625	
4.093	4.000	421	8	6.625	4/29/2008

Issued: 7 March 1962  
 Revised: 6-1-62, 8-13-62. 02-03-03, 8/5/14 PC

HP	Disp	C.R.	Ind.	Make	Model/Transmission	Manifold	R.R.	Lifter	Head	cc	Notes
110	195	8.60	1-1	Roch	7020061/SM		1.50	H	71.3		
115	195	8.60	1-1	Roch	7020062/AUTO		1.50	H	71.3		
120	195	10.25	1-1	Roch	7020061/SM		1.50	H	66.8		
140	195	10.25	1-1	Roch	7020062/AUTO		1.50	H	66.8		
166	195	10.25	1-4	Roch	7020079/SM	7020066/AUTO	1.50	H	66.8		
185	215	10.25	1-4	Roch	7020078/AUTO		1.56	H	66.8		
215	389	8.60	1-2	Roch	7020060/SM		1.50	H	71.3		
230	389	8.60	1-2	Roch	7020075/62-10	HM 7020074/315 HM	1.50	H	71.3		
235	389	8.60	1-4	Cart	AFB-3123S/SM		1.50	H	71.3		
Carb sizes - 1437x1686/1186x1563											
267	389	10.25	1-2	Roch	7020071/62-10	HM	1.50	H	71.3		
283	389	10.25	1-2	Roch	7020070/315-	HM	1.50	H	71.3		
303	389	10.25	1-4	Cart	AFB-3123S/SM		1.50	H	71.3		1
Carb sizes - 1437x1686/1186x1563											
318	389	10.75	3-2	Roch	Fr-7013063/ALL	Rr-7013065/ALL	1.50	H	66.8		2, 3
333	389	10.75	1-4	Cart	AFB-3123S/SM		1.50	H	66.8		1
Carb sizes - 1437x1686/1186x1563											
348	389	10.75	3-2	Roch	Fr-7013063/ALL	Rr-7013065/ALL	1.50	H	66.8		2
405	421	11.00	2-4	Cart	AFB-3433S & 3435S/ALL	Runner Type	1.65	M	66.8		4

**Notes**

- 1-Alt carbs 3300S/315 HM 3362S/62-10 HM
- 2-Alt carbs C-7020069/SM or 62-10 HM, 7020067/315-HM
- 3-Intake manifold 9775088, 9770275, 541690
- 4-intake manifold 542991, 9770859, 9770319

HP	Disp	Deck Cl	Piston Type	Dish/Dome Height	Vol	Valves	Cam Lift	Gasket	Springs
110	195	.000				1880/1600	330/330		Outer Only
115	195	.000				1880/1600	330/330		Outer Only
120	195	.000				1880/1600	330/330		Outer Only
140	195	.000				1880/1600	400/400		Outer & Inner
166	195	.000				1880/1600	400/400		Outer & Inner
185	215	.000				1500/1310	380/380		Outer Only
215	389	.000				1880/1600	330/330		Outer Only
230	389	.000				1880/1600	370/370		Outer & Inner
235	389	.000				1880/1600	330/330		Outer Only
267	389	.000				1880/1600	370/370		Outer & Inner
283	389	.000				1880/1600	411/411		Outer & Inner
303	389	.000				1880/1600	411/411		Outer & Inner
318	389	.000				1880/1600	411/411	.043	Outer & Inner
333	389	.000				1880/1600	411/411		Outer & Inner
348	389	.000				1880/1600	411/411		Outer & Inner
405	421	.000			Note a		465/465		Outer & Inner

a- 1920/1660 with 540306 heads. 2020/1760 with 544127 heads.

Disp-Hp	Cylinder Head Castings
389-318hp	9773345, 543797, 538177
421-405hp	544127, 540306

Early production 405hp 421" engines used cylinder heads cast 540306 with 1.92" intake & 1.66" exhaust valves. This head was replaced on a later built engine with the head cast 544127 with 2.02" intake & 1.76" exhaust valves.

Standard production line items for the 405hp 421" engine in the Catalina Models 2347 or 2311 include the use of aluminum hoods fenders bumpers etc., and are allowed in Stock classes. Only those models listed are permitted this usage except the aluminum bumpers which have been used previous to 1962.