

AMA Specifications—Passenger Car

MAKE OF CAR Pontiac MODEL YEAR 1967 DATE ISSUED 12-23-66 REVISED ^(*)

MODEL	FIREBIRD	FIREBIRD SPRINT	FIREBIRD 326	FIREBIRD H. O.
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ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)	Standard	
Valve rotator, type (intake, exhaust)	None	
Rocker ratio	1.5:1	
Operating tappet clearance (indicate hot or cold)	Intake	0
	Exhaust	0
Timing marks on flywheel, damper, other	(See Page 13)	

Timing	Intake	Opens (°BTC)	7	14	22
		Closes (°ABC)	41	50	67
		Duration-deg.	228	244	269
	Exhaust	Opens (°BBC)	41	52	72
		Closes (°ATC)	7	12	25
		Duration-deg.	228	244	277
Valve opening overlap		14°	26°	47°	

Intake	Material				SAE-1041 With Aluminum Treatment on Face			
	Overall length		4.902	4.994	4.9325	5.018		
	Actual overall head dia.		1.923-1.917		1.923-1.917			
	Angle of seat & face		30° Seat - 29° Face		30° Seat - 29° Face			
	Seat insert material		Not Used		Not Used			
	Stem diameter		.34		.34			
	Stem to guide clearance		.0016 - .0033		.0016 - .0033			
	Lift (@ zero lash)		.440 ± .011		.428 ± .011			
	Outer spring press. and length	Valve closed (lb. @ in.)	92 @ 1.583 102	59 @ 1.583 65	59 @ 1.586 65	59 @ 1.586 65		
		Valve open (lb. @ in.)	184 @ 1.183 200	133 @ 1.145 143	122 @ 1.211 132	122 @ 1.211 132		
	Inner spring press. and length	Valve closed (lb. @ in.)	-----	28 @ 1.563 34	28 @ 1.566 34	28 @ 1.566 34		
		Valve open (lb. @ in.)	-----	97 @ 1.125 103	87 @ 1.191 93	87 @ 1.191 93		

Exhaust	Material				21-2N Steel With Alum. Treatment On Face & Chrome Plated Stem			
	Overall length		4.891	4.983	4.9215	5.007		
	Actual overall head dia.		1.603 - 1.597		1.643 - 1.637			
	Angle of seat & face		45° Seat - 44° Face		45° Seat - 44° Face			
	Seat insert material		Not Used		Not Used			
	Stem diameter		.34		.34			
	Stem to guide clearance		.0021 - .0038		.0021 - .0038			
	Lift (@ zero lash)		.400 ± .011		.438 ± .011			
	Outer spring press. and length	Valve closed (lb. @ in.)	92 @ 1.583 102	59 @ 1.583 65	59 @ 1.586 65	59 @ 1.586 65		
		Valve open (lb. @ in.)	184 @ 1.183 200	133 @ 1.145 143	128 @ 1.176 138	128 @ 1.176 138		
	Inner spring press. and length	Valve closed (lb. @ in.)	-----	28 @ 1.563 34	28 @ 1.566 34	28 @ 1.566 34		
		Valve open (lb. @ in.)	-----	97 @ 1.125 103	93 @ 1.156 99	93 @ 1.156 99		