

AMA Specifications—Passenger Car

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

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)	23	30	38
		Closes (°ABC)	70	63	83
		Duration -deg.	273	273	301
	Exhaust	Opens (°BBC)	78	77	95
		Closes (°ATC)	31	25	38
		Duration -deg.	289	282	313
Valve opening overlap		54°	55°	76°	

Intake	Material					SAE-1041 with Alum. Treatment on Face & Chrome Plated Stem*				
	Overall length					5.0625				
	Actual overall head dia.					2.113 - 2.107				
	Angle of seat & face					30° Seat - 29° Face				
	Seat insert material					Not Used				
	Stem diameter					.34				
	Stem to guide clearance					.0016 - .0033				
	Lift (@ zero lash)					.410 ± .011		.413 ± .011		
	Outer spring press. and length	Valve closed (lb. @ in.)	59 @ 1.586		65 @ 1.586		97 @ 1.586		107 @ 1.586	
			128 @ 1.176		138 @ 1.176		231 @ 1.173		247 @ 1.173	
	Inner spring press. and length	Valve closed (lb. @ in.)	47.5 @ 1.566		52.5 @ 1.566		28 @ 1.566		34 @ 1.566	
			111 @ 1.156		121 @ 1.156		93 @ 1.156		99 @ 1.156	

Exhaust	Material					21-2N Steel with Alum. Treatment on Face and Chrome Plated Stem						
	Overall length					5.0515						
	Actual overall head dia.					1.773 - 1.767						
	Angle of seat & face					45° Seat - 44° Face						
	Seat insert material					Not Used						
	Stem diameter					.34						
	Stem to guide clearance					.0021 - .0038						
	Lift (@ zero lash)					.413 ± .011		.414 ± .011		.413 ± .011		
	Outer spring press. and length	Valve closed (lb. @ in.)	59 @ 1.586		65 @ 1.586		59 @ 1.586		65 @ 1.586		97 @ 1.586	
			128 @ 1.173		138 @ 1.173		128 @ 1.172		138 @ 1.172		231 @ 1.173	
	Inner spring press. and length	Valve closed (lb. @ in.)	47.5 @ 1.566		52.5 @ 1.566		28 @ 1.566		34 @ 1.566		-----	
			111 @ 1.153		121 @ 1.153		93 @ 1.152		99 @ 1.152		-----	

*Material spec. changes to GM 8440 with Ram Air Option.