

AMA Specifications—Passenger Car

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

MODEL FIREBIRD FIREBIRD FIREBIRD FIREBIRD
FIREBIRD SPRINT 326 H. O.

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	135 @ 1.7123	71 @ 1.7123 (a)
		Valve open (lb. @ in.)	128 @ 1.176	138 @ 1.176	287 @ 1.2983	182.5 @ 1.2983
	Inner spring press. and length	Valve closed (lb. @ in.)	47.5 @ 1.566	52.5 @ 1.566	28 @ 1.566	34 @ 1.566
		Valve open (lb. @ in.)	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	135 @ 1.7123	71 @ 1.7123 (a)
		Valve open (lb. @ in.)	128 @ 1.173	138 @ 1.172	287 @ 1.2993	182.2 @ 1.2993
	Inner spring press. and length	Valve closed (lb. @ in.)	47.5 @ 1.566	52.5 @ 1.566	28 @ 1.566	34 @ 1.566
		Valve open (lb. @ in.)	111 @ 1.153	121 @ 1.153	93 @ 1.152	99 @ 1.152

*Material spec. changes to GM 8440 and swirl polishing under the head added with Ram Air Option.

(a) Optional dual valve springs.