

# LINGENFELTER

## P E R F O R M A N C E   E N G I N E E R I N G

**Camshaft:**

**ZR1 Corvette (LS9 engine)**

**Part #:** 12638427

**Engine(s):** GM Gen III & IV V8 engines except Displacement On Demand (DOD) & camshaft phaser applications  
**Firing order:** 1-8-7-2-6-5-4-3 (per standard GM V8 cylinder numbering)

	<b>Intake</b>	<b>Exhaust</b>			
<b>Valve adjustment:</b>	HYD	HYD			
<b>Lobe lift (inches):</b>	0.328	0.325			
<b>Valve lift (inches):</b>	0.558	0.553	<b>with</b>	1.7	<b>rocker ratio</b>
<b>Valve lift (inches):</b>	0.590	0.585	<b>with</b>	1.8	<b>rocker ratio</b>
<b>Duration @ 0.006":</b>					
<b>Duration @ 0.050":</b>	211	230			
<b>Lobe Separation Angle (LSA):</b>		122.5			
<b>Degrees of advance:</b>		0.0			
<b>Valve timing @ 0.050" tappet lift:</b>		<b>Opening</b>		<b>Closing</b>	
	<b>Intake</b>	-17.0 BTDC		48.0 ABDC	
				<b>Overlap angle</b>	-24.5
	<b>Exhaust</b>	57.5 BBDC		-7.5 ATDC	

**These specs are with cam installed at:**      122.5 intake center line      122.5 exhaust center line

**Recommended installation angle:**      122.5 (intake center line angle)

<b>Recommended valve springs:</b>	GM LS9 or LS6/LS2/LS3 valve springs (~90 lbs seat/~290 lbs open)	1.7:1 rocker applications
	LPE checked and sorted LS9 valve spring kit (PN L230045297)	1.7:1 rocker applications
	LPE LPE beehive LSx spring set (PN L230055297)	1.7 or 1.8:1 rocker applications
	Comp Cams 26918 valve springs	1.7 or 1.8:1 rocker applications

**Notes:** LPE recommends thoroughly cleaning the camshaft and liberally applying engine assembly lube prior to installation.  
 LPE also recommends checking for proper pushrod length when installing a new camshaft.  
 Most 2006-2013 Gen IV engines use a single bolt camshaft (except the LS7 & LS9). These engines will need an installation kit from LPE.  
 This camshaft is ground with 1.0 degree of retard (-1.0 advance) so no offset bushing or adjustable timing gear should be needed.  
 LPE recommends always degreasing in the camshaft to confirm the camshaft location.