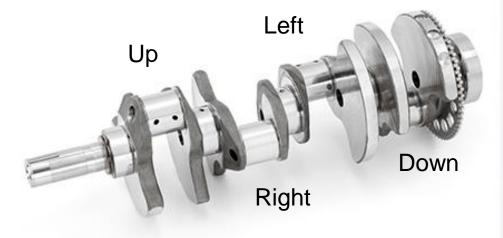
# **Corvette Talk**

- Topic What Exactly is a Flat Plane Crank in the C8 Z06?
  - Today's speaker: David Foote
- Future Topics
  - Are ceramic brakes better?
  - Are synthetic oil brands really different?
  - How to enter a locked Corvette with a dead battery
  - Is there a Carbon Fiber shortage?

#### **Crank Pin Position Makes it a Flat Plane**

Flat Plane or 180 degree crankshaft

Cross Plane or 90 degree crankshaft



Right Left Right Left

Insert Footer Here 2

### Key Differences in the Z06 Flat Plane Design

- Shorter Stroke / Larger Bore
- Much higher Red Line as shorter stroke minimizes piston speed
- Still a V8 Configuration
- Total Engine Displacement is 5.5L Vs 6.2L in the LT2
- LT6 0-60 in 2.6 Sec. Vs LT2 0-60 in 2.9 Sec.

Model	Displacement	Name	Туре	Нр	Torque	Redline (RPM)	Bore (in.)	Stroke (in.)
C8	6.2 L	LT2	V8	490	465@5150 RPM	6600	4.060	3.620
C8 - Z06	5.5L	LT6	V8	670	460@6300 RPM	8600	4.104	3.150

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#### **Key Design Information**

- Almost Everything Changes with the Crankshaft Change
  - Forged Titanium Connecting Rods
  - Lighter weight crank
  - Cylinder heads redesigned
  - Higher fuel injection pressure
- Flat Plane "Challenges"
  - More engine vibration
  - Engine and Oil Cooling

## Questions (but can't cover too much detail – time)

