



TC-88 Camshaft Kits



BIG TWIN

S&S TC-88 Gear Drive Cams and Camshaft Kits increases valve timing accuracy by eliminating timing chain lash and also reverses the rear cams direction of rotation providing additional operating clearance between cam lobes that will allow higher cam lifts.

Complete Cam Kits include cams, complete gear drive kit and cam installation kit.

Gear Drive Cams can only be used with gear drive kit and also must be used with adjustable pushrods and performance valve spring kit.

Cams only include inner gears. Outer cam drive gear kit must be ordered separately. Material must be removed from the inner surface of the stock gear cover and crank case modification is required on .625" and .640 lift cams.

00-05 Dyna		06-up Dyna		Series (See Note*)	Valve Timing Open/Close Intake	Valve Duration Open/Close Exhaust	Valve Lift Intake	Valve Lift Exhaust	Centerline	Lift@TDC			
Cams Only	Complete Cam Kits	Cams Only	Complete Cam Kit							Intake	Exhaust	Intake	Exhaust
10-5160	10-5177	10-5246	10-5266	510G ¹	20°/38°	52°/20°	.238"	.252"	.510"	99°	106°	.187"	.178"
10-5166	10-5178	10-5247	10-5267	570G ²	20°/40°	55°/20°	.240"	.250"	.570"	100.0°	107.5°	.187"	.179"
10-5168	10-5179	10-5248	10-5268	585G ³	20°/40°	60°/20°	.245"	.260"	.585"	102.5°	110.0°	.186"	.176"
10-5170	10-5180	10-5249	10-5269	625G ⁴	20°/55°	60°/20°	.255"	.260"	.625"	107.5°	110.0°	.189"	.184"
10-5172	10-5181	10-5250	10-5270	640G ⁵	25°/60°	60°/25°	.265"	.265"	.640"	107.5°	107.5°	.228"	.221"
10-4276	—	10-4268	—	Outer cam drive gear kit									
10-4275	—	10-4285	—	complete gear drive kit includes pinion gear, front and rear inner cam gears and outer cam gear.									

11-7715 adjustable pushrod set

11-2077 valve spring kit w/steel top collars

11-2078 valve spring kit with titanium top collars

1. Camshaft Set 510G: designed for 88-95 cubic inch engines with compression ratio below 9.7:1

2. Camshaft Set 570G: designed for 88-95 cubic inch engines with compression ratio below 10:1

3. Camshaft Set 585G: designed for 88-95 cubic inch engines with compression ratios from 10 to 10.75:1

4. Camshaft Set 625G: designed for engines of 95 cubic inches or more with compression ratios between 10.0 and 10.75:1

5. Camshaft 640G: designed for engines of 95 cubic inches or more with compression ratios of 10.5-11.5:1



S&S TC-88 Adjustable Pushrods and Cover Kit. Chrome-moly pushrods feature simple trouble-free installation that does not require the removal of gas tank or rocker assemblies. Includes pushrods, gaskets, O-rings, retainer clips and

upper pushrod covers that have been designed to provide a more stable and rigid cover assembly.

VT No. Item

11-7715 Kit
11-7716 Pushrods Only



Cam Installation Support Kit includes cam cover gasket, two inner cam needle bearings, two outer cam bearings and a retaining ring.

VT No. Type Years

12-0125 Gear 2000-05 Dyna, 2000-06 Big Twins
12-0126 Chain As Above
12-5240 Gear 2006-up Dyna, 2007-up Big Twins



Crane TC-88 Time Saver Adjustable Pushrod Set made from 7/16" diameter chromemoly tubing which eliminates pushrod flex. Adjusts from 8.750" to 10.750".

VT No. 7132-99



CRANE Cams For TC-88

Crane Cam Sets are available as a replacement style to be used with stock cam drive assembly or with S&S gear drive assembly. Computer designed hydraulic cams that feature lube-to-lube cam profile accuracy for off idle torque to high RPM horsepower.

99-05 Dyna 99-06 FLT, FXST	06-up Dyna 07-up FLT, FXST	Duration @.053 Open/Close Intake	Exhaust	Gross Valve Lift @ TDC Intake	Exhaust	Specifications
10-4396 10-4411**	10-4417	226° 13/33	236° 42/14	.505" .147"	.505" .152"	Mild Street, Cruising, Touring. Bolt-in cam, low-end torque and mid-range HP. Good for heavy bikes. Stock comp. ratio. Best power w/performance air cleaner, free-flow exhaust. Use stock v/springs. Range: Idle to 5,000 RPM
10-4392 10-4407* 10-4412**	10-4418	236° 20/36	242° 47/15	.505 .185"	.505 .157"	Moderate Street, Cruising. Bolt in. Mild perf. for Dynas, Softails or single riders. Stock comp. ratio or up to 9.5:1. Best power w/perf. air cleaner and free-flow exhaust. Uses stock v/springs. Range: 1,500 to 5,500 RPM
10-4393 10-4408* 10-4413**	10-4419	242° 19/43	252° 48/24	.505 .178"	.505 .205"	Street Performance, Some Engine Modifications. Bolt-In. OK w/stock comp. but works best with up to 10:1:1 c/r. Best power w/perf. air cleaner and free-flow exhaust. Use stock v/springs. Range: 1,800 to 5,800 RPM
10-4394 10-4409* 10-4414**	10-4420	240° 18/42	248° 46/22	.570" .173"	.570" .198"	Hot Street Performance, Modified. OK w/stock cubic inch or big-bore kit (95 c.i.). Best power w/incr. comp. ratio 9.5:1-up, head mods. Must use Crane v/springs, clearanced for .570" lift. Great low-end and mid-range torque w/added upper RPM power. Must use perf. air cleaner and free-flow exhaust. Range 1,800 to 5,800 RPM
10-4397 10-4410* 10-4415**	10-4421	246° 20/46	254° 52/22	.619" .188"	.619" .193"	Hot Street Performance, Modified. For modified engines with 10.25:1-up compression, big bore kits, head mods. Must use Crane valve springs, clearanced for .600" lift. Must use perf. air cleaner and exhaust. Designed to use with Edelbrock Performer RPM Twin-Cam cylinder heads. Range: 2,000 to 6,000 RPM
10-4395 10-4416**	10-4422	254° 25/49	260° 56/24	.600" .211"	.600" .206"	Max Hot Street, Modified. For modified engines. Higher comp., 10.5:1-up big-bore kits, head mods, etc. Must use Crane v/springs., clearanced for .600" lift. Strong mid-range torque with upper RPM power. Must use perf. air cleaner and free flow exhaust. Range: 2,000 to 6,200RPM

*Note: Use S&S Gear Drive Assembly 10-4275

**Note: Cam and lifter kits include replacement style cams and Crane Performance lifters.