

Weatherly 050-052

2013

Catalog No. SS-20 Replaces SS-19 2010

Hex-A-Just® for Ford Mod

Hex-A-Just® for GM LS

Cloyes Exclusive Hand Matching!



Timed... To Perfection!

TABLE OF CONTENTS
WHICH SET DO YOU NEED?

TABLE OF CONTENTS Which Set Do You Need? Technical Information Advance / Retard Valve Timing 2 **Center Distance & Hand-Matching** Speed Set and Quick Button Descriptions **Quick Button Two Piece Timing Cover** Hex-A-Just® True® Roller Quick Adjust® True® Roller Race Billet True® Roller Original Race True® Roller Street Billet True® Roller Street True® Roller **Heavy Duty Sets** Speed Set Applications AMC - Buick - Cadillac 9 Chevrolet 10-13 **LS - Featured Product** 14-15 16 Chrysler 18-19 Ford Ford Modular V8 - Featured Product 20-21 Jeep - Oldsmobile - Pontiac - Range Rover 22 **Dual Idler Gear Drives** 23 Matched Gear Sets / Inline Engines 24 Accessories 25 Marine Applications 26 Replacement Chain Reference 27-28 **Quick Reference (Popular Apps)** 29

Developing and Manufacturing Performance Timing Drives Since 1970!

WHICH SET DO YOU NEED?

HEAVY DUTY SETS = GOOD

This standard double row chain set offers that little extra durabilty and peace of mind.

Heavy Duty Sets - Double row sprockets and .200 or .220 double row chain. 100% Made in USA

STREET TRUE® ROLLERS = BETTER

Entry-level True® Roller offerings for the budget-minded street enthusiast.

These sets are 100% Made in USA.

Street True® - offering a .250 True® Roller chain and 3 keyway crank sprocket.

Street Billet - same as above with added features of billet steel cam sprocket and 9 key crank sprocket.

RACE TRUE® ROLLERS = BEST

Race-proven speed sets. These custom hand-matched sets give the professional racer the assurance needed for a race-dedicated engine.

Race True® - Induction heat-treated sprockets hand-matched with Premium .250 True® Roller chain. This Original RACE Set put Cloyes in the race business!

Race Billet - We took a good idea and made it better. Similar to above with the added assurance of all billet sprockets and added benefit of versatility with 3 or 9 keyway crank sprockets.

ADJUSTABLE RACE TRUE® ROLLERS = BEST

Like above, these custom hand-matched sets give the professional racer the assurance needed for a racededicated engine, with the added feature of infinite adjustability anywhere between plus or minus 6°.

Hex-A-Just® - Our number one seller to the professional race crowd. All the assurances of our top-of-the-line speed set - billet steel heat-treated sprockets, hand-matched with our Premium .250 True® Roller chain - and infinitely adjustable (from plus 6° to minus 6°) with the simple turn of a wrench. Add our Quick Button Two Piece Timing Cover and you are way ahead of the field!

Quick Adjust® - Highly recommended for our Ford racers. Like above, our top-of-the-line speed set - billet steel heat-treated sprockets, hand-matched with our Premium .250 True® Roller - and infinitely adjustable (from plus 6° to minus 6°) with the turn of a wrench.

"Z-RACING" TRUE® ROLLERS = Z-BEST

Developed for those extreme racing conditions that push your internal engine components to their limits. With the addition of the exclusive Cloyes "Z" Chain, the "Z-Racing" series is available as an upgrade for a select number of popular racing applications on all race categories discussed above. See application listings on pages 9-22 for available coverage.

For more details on "Z-Racing" see page 17. For "Z-Racing" for LS see page 13.

FOR REPLACEMENT CHAIN NUMBERS FOR ALL SPEED SETS - SEE PAGE 27

Why Advance or Retard Valve Timing?

Adjusting your valve timing gives you the ability to customize your torque and power curves to optimize your desired engine output for your specific application needs.

ADVANCED TIMING = MAXIMUM TORQUE AT LOW RPM

Recommended for towing, performance street driving, and drag racing with automatic transmissions.

RETARDED TIMING = MAXIMUM TORQUE AT HIGH RPM

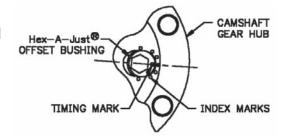
Recommended for circle track, drag racing with manual transmissions and other all-out racing applications.

How to Advance or Retard Valve Timing

Cloyes offers several different options to adjust your valve timing:

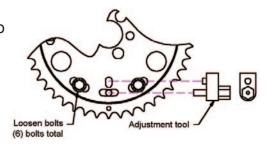
HEX-A-JUST®

With the simple turn of an allen wrench or fuel pump eccentric, our patented Hex-A-Just® systems allow you to infinitely adjust valve timing within a window of + / - 6 degrees.



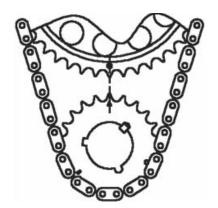
QUICK ADJUST®

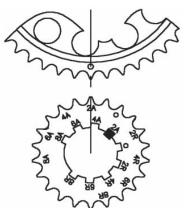
Another Cloyes patented and innovative way to adjust your valve timing. By simply loosening the six fasteners and using the supplied tool you can infinitely adjust valve timing within a window of + / - 6 degrees.



MULTIPLE KEYWAYS

Use our three or nine keyway crank sprockets for incremental adjustments





What is Center Distance?

Center Distance (or CD) is the measurement from the center of the camshaft to the center of the crankshaft. Accurately matching your timing set to the center distance of your engine will determine the performance and longevity of your timing set.

CD = MOS - (CRANK DIA./2 + CAM DIA./2)

CAMSHAFT DIAMETER + MEASURE OVER SHAFTS (MOS) CENTER DISTANCE CRANKSHAFT DIAMETER +

Hand Matching... A Cloyes Exclusive!

Each and every Cloyes Premium Race set (Hex-A-Just®, Quick Adjust®, Race Billet, and Original Race True®) is hand-matched at the Cloyes facility by trained technicians. This process starts with a detailed component fitment and critical feature analysis. Each set is then measured on a pneumatic matching fixture, allowing rotation of the timing set under a predetermined load to both qualify center distance and control runout. It is this attention to detail that sets Cloyes apart from all competitors.

Accurate and consistent valve timing is a key component to maximizing engine performance. The illustrations below show a typical mass-produced OE timing set versus a hand-matched Cloyes True® Roller Set.

OE Set

Center Distance measures 0.010" too long causing chain deflection, resulting in -

- Timing Variation: The cam sprocket is allowed to rotate a certain number of degrees (relative to amount of deflection) without taking lead from the crank sprocket. This prevents the engine from attaining optimum performance.
- Chain Whip: This will lead to shortened chain fatigue life and can cause ultimate failure.

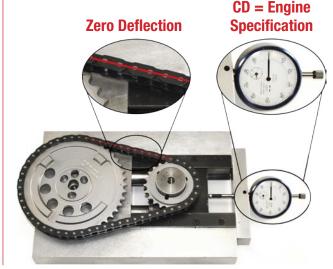
Resulting Deflection Long CD = 0.010" Long

Cloyes Hand-Matched Set

Center Distance measures to exact engine specification -

- Exact and Consistent Timing =
 Optimum engine performance
- Smooth Chain Operation = Increased chain life

Contact Cloyes Tech Line at (479) 646-1662 ext 228 for the custom center distance needed for your align honed or aluminum block engine.



QUICK BUTTON™ COVER

Quick Button™ Two-Piece Timing Cover

The perfect compliment to our Chevy Hex-A-Just® True® Roller Sets. The Quick Button™ Two Piece Timing Cover provides easy access to cam timing adjustment saving hours of set-up time on the dyno or at the track. The built-in cam button allows you to adjust cam endplay with the cover in place.

- Made from Die Cast Aluminum
- Designed for easy access to Hex-A-Just®
- Easily-Adjustable, Thrust Bearing Cam Button
- O-Ring Seal & Timing Cover Bolts Included
- Accepts OEM-style timing cover gasket and crank shaft seal

Note: Not designed to work with Cloyes Quick Adjust Timing Sets.

Chevy Small Block

	Part #
1955-UP (non-Factory Roller Cam)	9-221
with BB Cam Snout	9-221
with BB Crank Snout	9-227
with BB Cam & Crank Snout	9-227
Rocket Block (Raised Cam)	9-226
with BB Crank Snout	9-229
1985-UP (w/Factory Roller Cam)	9-225
with BB Crank Snout	9-234

Chevy Big Block

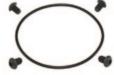
	Part #
1965-UP (up to and including Gen 4)	9-231







Repair Kit Part #9-221D Includes O-Ring Seal, the 4 mounting bolts, locking screw, and cam button.



Bolt/Ring Kit
Part #9-221E
Includes the
O-Ring seal and
the 4 mounting
bolts.

Replacement Parts

Replacement Plate Only (cam button not included)

For Cover#	order part#
9-221	9-221B
9-225	9-225B
9-226	9-226B
9-227	9-221B
9-229	9-226B
9-231	9-221B
9-234	9-225B

Hex-A-Just® True® Roller Speed Sets

Hex-A-Just® Sets (9-3100A series) feature:

- Patented Hex-A-Just® allows +/- 6 degrees
- Induction Heat-Treated, Billet Steel Sprockets
- 3 Keyway Billet Steel Crank Sprocket
- Premium True® Roller Chain with .250" Diameter Rollers
- · Hand Matched to qualify center distance and control run-out
- Many applications available .005" and .010" undersize
- Some sets available with Z-Chain

Cloyes Tech Tip

When making cam timing adjustments with a Cloyes
Hex-A-Just® set you must LOOSEN THE CAM BOLTS
AND RELEASE THE CAMSHAFT LOAD!



The Industry Standard in Adjustable Cam Timing.

An industry breakthrough when introduced in 1992. Since then the accuracy and simplicity of our Hex-A-Just® system remains unequaled by our competitors. The Hex-A-Just® True® Roller Set is infinitely adjustable to +/- 6 degrees. No machining required and no fumbling with offset bushings. Simply dial in your cam timing with the turn of a wrench, then tighten the cam bolts to lock the cam position in place. When combined with our Quick Button™ Two Piece Timing Cover (see opposite page) this Cloyes' patented technology will ensure accurate timing and save you hours of valuable set-up time. Set it, and forget it!

Sprockets are machined from premium billet steel on our state-of-the-art CNC equipment. Both sprockets are then induction hardened and oil-quenched using our in-house multi-stage heat treat process. Our Premium True® Roller chain features superior strength with full roller action. Side plates are cut and shaved from high strength steel and heat-treated for maximum fatigue resistance. The .250" rollers are "cold rolled" and hardened to exacting standards increasing load and RPM capabilities. All Hex-A-Just® sets are hand-matched at the Cloyes facility to qualify center distance and control runout. An additional feature on Chevrolet applications is the Cloyes' patented "cheater" sprocket tooth profile that provides exacting center distance and improved load distribution. Check out this and other Cloyes patents at www.USPTO.gov. Whether your destination is the street or the track, Hex-A-Just® will get you there faster!

Visit WWW.CLOYES.COM to see a video simulation of the Hex-A-Just® in action!



Replacement hex bushing for Chevy sets Part #P9005



Ford & Oldsmobile Hex-A-Just® works in similar manner using the supplied fuel pump eccentric as the adjustment component.

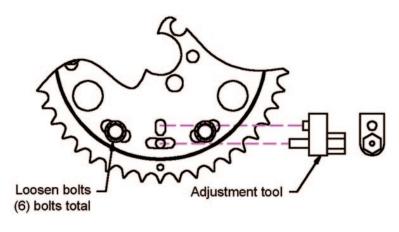
Note

All applicable Chevy Sets and BB Chrysler sets include Captured Thrust Bearing.

Quick Adjust® True® Roller Speed Sets

Quick Adjust® Sets (9-3700 series) feature:

- Patented Quick Adjust[®] allows +/- 6 degrees
- Induction Heat-Treated, Billet Steel Sprockets
- 3 Keyway Billet Steel Crank Sprocket
- Premium True® Roller Chain with .250" Diameter Rollers
- Hand Matched to qualify center distance and control run-out
- Many applications available in .005" and .010" undersize
- Some sets available with Z-Chain





Adjust your Valve Timing with Confidence!

Cloyes patented Quick Adjust® True® Roller Speed Sets keep you ahead of the competition by offering a new way to adjust cam timing up to +/- 6 degrees. Just loosen the six bolts around the cam sprocket, insert the patented Quick Adjust® tool, and tune your way to faster times. Sprockets are machined from premium billet steel on our state-of-the-art CNC equipment. Both sprockets are then induction hardened and oil-quenched using our inhouse multi-stage heat treat process.

Our Premium True® Roller chain features superior strength with full roller action. Side plates are cut and shaved from high strength steel and heat-treated for maximum fatigue resistance. The .250" rollers are "cold rolled" and hardened to exacting standards increasing load and RPM capabilities. All Quick Adjust® sets are hand-matched at the Cloyes facility to qualify center distance and control run-out. An additional feature on Chevrolet applications is the Cloyes patented "cheater" sprocket tooth profile that provides exacting center distance and improved load distribution. Check out this and other Cloyes patents at www.USPTO. gov. Get serious about going fast - Cloyes and Quick Adjust®!



Replacement Quick Adjust® Tool Part #PQATOOL

Note:

All applicable Chevy Sets and BB Chrysler sets include Captured Thrust Bearing.

Race Billet True® Roller Speed Sets

Race Billet Sets (9-3600 series) feature:

- Induction Heat-Treated, Billet Steel Sprockets
- 3 or 9 Keyway Billet Steel Crank Sprocket (+/- 8°, 2° incr)
- Premium True® Roller Chain with .250 Diameter Rollers
- Hand Matched to qualify center distance and control run-out
- Many applications available in .005" and .010" undersize
- Some applications available with Z-Chain

Race Ready Timing Sets!

Cloyes Race Billet True® Roller sets are race ready. Both sprockets are machined from premium billet steel on our state-of-the-art CNC equipment, then induction hardened and oil-quenched using our in-house, multi-stage heat treat process. Our Premium True® Roller chain features superior strength with full roller action. Side plates are

cut and shaved from high strength steel and heat-treated for maximum fatigue resistance. The .250" rollers are "cold rolled" and hardened to exacting standards increasing load and RPM capabilities. All Race Billet sets are hand-matched at the Cloyes facility by trained technicians to qualify center distance and control run-out, ensuring you the best with every set. Available with 3 or 9 keyway crank sprocket. An additional feature on Chevrolet applications is the Cloyes patented "cheater" sprocket tooth profile that provides exacting center distance and improved load distribution. Check out this and other Cloyes patents at www.USPTO.gov.

Chevy (non factory roller) and BB Chrysler sets include captured needle bearing.

Original Race True® Roller Speed Sets

Original True Roller® Sets (9-3100 series) feature:

- Ductile Iron or Induction Heat-Treated Cast Iron Cam Sprocket
- Induction Heat-Treated, Billet Steel, Crank Sprocket
- 3 Keyways allow +/- 4 degrees
- Premium True® Roller Chain with .250 Diameter Rollers
- Hand Matched to qualify center distance and control run-out
- Many applications available in .005" and .010" undersize
- Some applications available with Z-Chain

Introduced in 1970 — the one that started it all!

Our competitors may say they have a true roller but only Cloyes has the Original. The Original Race True® Roller remains the benchmark against which all others are measured. Cam sprockets are machined from premium ductile iron or induction hardened cast iron. The three keyway billet steel crank sprockets are induction hardened then oil-quenched using our in-house multi-stage heat treat process. Our Premium True® Roller chain

features superior strength with full roller action. Side plates are cut and shaved from high strength steel and heat-treated for maximum fatigue resistance. The .250" rollers are "cold rolled" and hard-ened to exacting standards increasing load and RPM capabilities. All Original True® sets are hand-matched at the Cloyes facility to qualify center distance and control run-out, ensuring you the best with every set. An additional feature on Chevrolet applications is the Cloyes' patented "cheater" sprocket tooth profile that provides exacting center distance and improved load distribution. Check out this and other Cloyes patents at www.USPTO.gov.



Street Billet True® Roller Speed Sets

Street Billet Sets (9-3500 series) feature:

- · Billet Steel Cam Sprocket
- · Induction Heat-Treated, Billet Steel Crank Sprocket
- 9 Keyways allow +/- 8 degrees
- Adjustability in 2 crank degree increments
- True® Roller Chain with .250" Diameter Rollers
- Set is 100% Made in USA

Serving the needs of the Weekend Racer!

Offering a new level of True® Roller advantage for the value driven racer. We upgraded the cam sprockets to feature the strength of billet steel and added critical functioning features. The billet steel durability. 9 keyway induction hardened crank sprocket, .250 True® Roller chain, and precise CNC machining, together offer unmatched quality and adjustability in its class.



Street True® Roller Speed Sets

Street True® Roller Sets (9-1100 series) feature:

- Cast Iron Cam Sprocket
- Induction Heat-Treated, Billet Steel Crank Sprocket (3 keyway)
- True® Roller Chain with .250" Diameter Rollers
- Set is 100% Made in USA

Performance and Value brought to you by Cloyes!

These sets feature cast iron cam sprockets, 3 keyway induction hardened billet steel crank sprockets, and .250 True® Roller chains. These, combined with our precision CNC machining offer unmatched quality in its class.



Heavy Duty Speed Sets

Heavy Duty Sets feature:

- Cast Iron Cam Sprocket
- · Induction Heat-Treated, Billet Steel Crank Sprocket
- Heavy Duty .200 or .222 Diameter Double Roller Chain
- Set is 100% Made in USA

High Quality / Low Cost Performance

Cam sprockets machined from cast iron, induction hardened crank sprockets, .200" diameter double roller chains for small blocks or .222" double roller chains for big blocks. These sets are the industry's most reliable workhorse!



GOOD -BETTER - BEST **CLOYES**® STREET SETS RACE TRUE® SETS HEAT-TREATED, BILLET STEEL CRANK HEAVY STREET STREET **RACE BILLET** RACE DUTY **TRUE**® **BILLET** TRUE® **TRUE®** Make/Engine/Year X = 3 KEYWAY 3 KEYWAY 9 KEYWAY 3 KEYWAY 3 KEYWAY 9 KEYWAY **AMERICAN MOTORS CORPORATION (AMC)** I-4 250 (2.5) 1983-84 9-3127 enter distance = 5.045 I-6 199, 232, 258 1964-88 9-3127 enter distance = 5.045 V-8 290 thru 401 1966-79 9-1118 9-3118 **BUICK** V-6 198, 225, 231 9-1132 9-3532X9 9-3632X3 9-3632X9 9-3132 1962-82 w/out Integral Distributor Drive Gear nter distance = 4.335 V-6 181, 198, 225, 231(RWD) 9-1134 9-3534X9 9-3134 9-3634X3 9-3634X9 1977-88 with Integral Distributor Drive Gear enter distance = 4.335 9-1132 9-3532X9 V-8 215.300.340.350H.J.X 9-3132 9-3632X3 9-3632X9 1962-82 ptional -5 -10 optional -5 -10 V-8 400, 430, 455 1967-76 9-1144 9-3144 enter distance = 5.045 **CADILLAC** V-8 368, 425, 472, 500 1968-84 9-3539X3 9-3639X3 1/2" pitch single roller chain nter distance = 5.045

REDUCED CENTER DISTANCE FOR ALIGN HONED APPLICATIONS

Some Race True Roller sets are available in reduced center distance as noted by optional -5 and -10. To order, just add suffix to the part number. For example, 9-3100 becomes 9-3100-5 (for .005 undersized).



UPGRADE YOUR CADILLAC LS with CLOYES Z-SERIES!!

Z-SERIES FOR CADILLAC, PLEASE REFER TO CHEVROLET ENGINE LISTINGS.



GOOD BETTER

STREET SETS

HEAT-TREATED, BILLET STEEL CRANK

HEAVY ST DUTY T SAFEYWAY ST DBL ROLLER

1995-97 Available in Race Sets Only

STREET
TRUE®
3 KEYWAY
.250 TRUE ROLLER CHAIN

MAKE / ENGINE / YEAR

7		
7 🗆	RO	

CHEVROLET

1	V-6 2.8 S, X, Z V-6 3.1T (Camaro Only) center distance = 6.261	1980-92	Available in Race Sets On	ly —
2	V-6 & Small Block V-8 except factory roller cam V-6 200, 229, 262, 4.3 w/o Bal Shaft V-8 262, 265, 267, 283, 302, 305G, 305H, 307, 327, 350L, 350K, 400	1955-96	C-3023X three keyway 9-1100 C-3055 single roller single keyway	9-3500TX9
	with Big Block Crank Snout	ALL	Available in Race Sets On	nly —
	with Big Block Cam Snout	ALL	Available in Race Sets On	nly —
	with Big Block Crank & Cam Snout	ALL	Available in Race Sets On	nly —

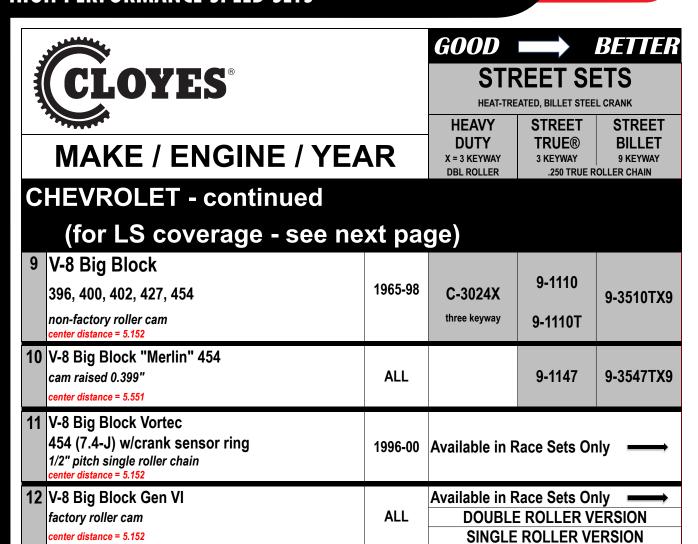
8	EE NEXT	PAGE FO	OR QUICK	BUTTON	TIMIN	G COVERS	j
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3	V-6 Truck 4.3L w/Balance Shaft 1/2" pitch single roller chain center distance = 4.521	1992-06	C-3211 single keyway		
4	V-6 & Small Block V-8 factory roller cam V-6 262, 4.3 w/o Bal Shft V-8 305E, F, G, H, 350 (5.7-7, 5.7-8) (exc/ LT1/LT4) center distance = 4.521	1985-02	C-3092 single roller single keyway	9-1145	9-3545X9
	with BB Crank Snout	ALL	Available in I	Race Sets O	nly —
5	V-8 Small Block "Rocket" cam raised 0.391" center distance = 4.912	ALL		9-1146 9-1146T	9-3546TX9
	with BB Crank Snout	ALL	Available in I	Race Sets O	nly
6	V-8 348, 409 center distance = 5.045	1958-65		9-1101	
7	V-8 Small Block Vortec (L31) 1/2" pitch single roller chain center distance = 4.521	1996-02		9-1157	
8	LT-1 / LT-4 (Vented Opti-Spark)	4005.07	A. ailabla in I	Dana Cata O	-1-

		BEST	\rightarrow B	EST and	<i>ADJUS</i>	STABLE	
		RACI	E TRUE®	ROLLE	R SETS	3	
	INDUCTION HEA		S HAND-MATCHED with				
	RACE	RACE BILL X3 = 3 KEYWAY	LET TRUE® X9 = KEYWAY		-JUST® BLE + or - 6°		DJUST® LE + or - 6°
	TRUE® 3 KEYWAY	TRUE®	Z-Racing	TRUE®	Z-Racing	TRUE®	Z-Racing
C	HEVRO	OLET					
1							
	9-3137						
2							
	9-3100	9-3600TX3	9-3600TX3Z	9-3100A	9-3100AZ	9-3700	9-3700Z
	3-3100	9-3600TX9	9-3600TX9Z	3-0100A	3-3100AL	3-3700	3-3100 <u>2</u>
	optional -5 -10	optional -5 -10		optional -5 -10		optional -5 -10	
		9-3600BTX3	9-3600BTX3Z	9-3100B	9-3100BZ	9-3700B	9-3700BZ
		optional -5 -10		optional -5 -10		optional -5 -10	
•				9-3100C optional -5 -10			
•				9-3100D optional -5 -10			
- 7	HE PERI	FECT COMP	LIMENT TO	HEX-A-JU	UST ®		
3		9-3654X3					
4	9-3145	9-3645X3		9-3145A			
	0 01 10	9-3645X9		0 01 1071			
	optional -5 -10	opional -5 -10		optional -5 -10			
				9-3145B			
				optional -5 -10			
5	9-3146	9-3646TX3	9-3646TX3Z	9-3146A	9-3146AZ	9-3746	9-3746Z
	optional -5 -10	9-3646TX9 optional -5 -10	9-3646TX9Z	optional -5 -10		optional -5 -10	
		9-3646BTX3	9-3646BTX3Z	9-3146B	9-3146BZ	9-3746B	9-3746BZ
		optional -5 -10		optional -5 -10		optional -5 -10	
6		9-3601X3					
7	9-3157 three keyway 9-3157X1 single keyway						
8		9-3651X3					

1/2" pitch single roller chain

13



Quick Button™ Two-Piece Timing Cover

The perfect compliment to our Chevy Hex-A-Just® True® Roller Sets. The Quick Button™ Two Piece Timing Cover provides easy access to cam timing adjustment saving hours of set-up time on the dyno or at the track. The built-in cam button allows you to adjust cam endplay with the cover in place.

- Made from Die Cast Aluminum
- Designed for easy access to Hex-A-Just®
- Easily-Adjustable, Thrust Bearing Cam Button
- O-Ring Seal & Timing Cover Bolts Included
- · Accepts OEM-style timing cover gasket and crank shaft seal



Note: Not designed to work with Cloyes Quick Adjust Timing Sets.

BEST and ADJUSTABLE BEST **RACE TRUE® ROLLER SETS** INDUCTION HEAT-TREATED SPROCKETS HAND-MATCHED with PREMIUM TRUE® ROLLER CHAIN or Z-CHAIN (where available) RACE BILLET TRUE® **HEX-A-JUST®** QUICK ADJUST® **RACE** ADJUSTABLE + or - 6° X3 = 3 KEYWAY X9 = KEYWAY ADJUSTABLE + or - 6° **TRUE® TRUE® Z-Racing TRUE® TRUE® Z-Racing Z-Racing** 3 KEYWAY 9-3610TX3Z 9-3610TX3 9-3110 9-3110A 9-3110AZ 9-3710 9-3710Z 9-3610TX9Z 9-3610TX9 optional -5 -10 optional -5 -10 optional -5 -10 optional -5 -10 9-3647TX3 9-3147 9-3647TX9 9-3147A 9-3747 9-3655X3 9-3155A 9-3670X3 call tech 9-3170A call tech 9-3649X3 9-3149A

Quick Button™ Two-Piece Timing Cover

CHEVY SMALL BLOCK		CHEVY BIG BLOCK			
	Part #	Part #			
1955-UP (non-Factory Roller Cam)	9-221	1965-UP (up to and including Gen 4) 9-231			
with BB Cam Snout	9-221	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
with BB Crank Snout	9-227				
with BB Cam & Crank Snout	9-227	(CLOYES [®]			
Rocket Block (Raised Cam)	9-226	Performance Products			
with BB Crank Snout	9-229				
1985-UP (w/Factory Roller Cam)	9-225				
with BB Crank Snout	9-234	and the second			

CHEVROLET

15



Take your LS engine to the next level with the #1 choice of top professional teams in Sprint, Circle Track, Drag, and Off-Road racing.

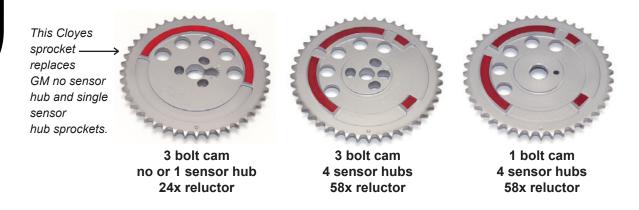
For All-Out racing, Cloyes offers its single roller "Z-Racing" series for GM LS applications featuring the race-proven Cloyes "Z" chain. Our custom hand-matched sets offer center distance accuracy, easy installation (no engine modifications required), exact cam timing and race-proven durability. Starting with precision machined induction heat-treated billet steel sprockets, we hand-match every set for center distance correction and runout control. Exact cam timing is achieved with our patented Hex-A-Just® system for infinite adjustability or our Race Billet for incremental adjustability. Our LS "Z-Racing" series has exceeded expectations in the most demanding of race environments, including high horsepower, high valve spring pressure, and while driving ignition/fuel/accessories off the cam nose.

"Z-RACING" TRACK-PROVEN FOR:

- Abusive on-and-off throttle applications
- Power levels exceeding 1200 horsepower
- Valve spring pressures approaching 800 lb/in open
- Drive mechanical fuel pumps/distributor ignition systems
- Drive your front accessory drive units (water pump, oil pump, etc.)

If you're looking for the ultimate in valve train stability, Cloyes Z-Racing series is the answer! LS sets also available for 0.390 raised blocks!

How to Identify your LS Engine Management System



For the weekend racer, our LS sets are also available with our standard Cloyes Premium True® Roller chains. See listings on opposite page.

Not sure what you need? Contact our Tech Line for help - (479) 646-1662 ext 228.

TRUE® ROLLER SETS FOR GM's LS ENGINES **HEX-A-JUST® RACE BILLET** Chain **APPLICATION** Only TRUE® ROLLER TRUE® ROLLER STANDARD CENTER DISTANCE 9 KEYWAY **3 KEYWAY** LS1 / LS2 / LS6 1997-2005 5.7, 6.0 (three bolt cam / no or one sensor hub) - this also includes 2006 Pontiac GTO 9-3158A 9-3658TX3 9-3658TX9 9-304 single roller 9-3658TX9Z single roller "Z-Racing" 9-3158AZ 9-3658TX3Z 9-303 double roller (no bearing) 9-3159A 9-3659X3 9-131 LS2 2006 6.0 (three bolt cam / four sensor hub) single roller 9-3172A 9-3672TX3 9-3672TX9 9-304 single roller "Z-Racing" 9-3172AZ 9-3672TX3Z 9-3672TX9Z 9-303 LS2/LS3 2007-2009 6.0, 6.2 (single bolt cam / four sensor hub) these sets also include the chain damper sinale roller 9-3673TX3 9-3673TX9 9-304 single roller "Z-Racing" 9-3673TX3Z 9-3673TX9Z 9-303 LS7 2006-10 (three bolt cam / four sensor hub) single roller 9-3167A 9-3667TX3 9-304 9-3167AZ 9-3667TX3Z single roller "Z-Racing" 9-303 RAISED BLOCK SETS - center distance raised .390" damper #9-5491 recommended 3 KEYWAY 9 KEYWAY LS1 / LS2 / LS6 5.7, 6.0 (three bolt cam / no or one sensor hub) 9-3158AZR 9-3658TX3ZR 9-3658TX9ZR single roller "Z-Racing" 9-302 9-3159AR 9-3659X3R double roller (no bearing) 9-132 LS2 6.0 (three bolt cam / four sensor hub) single roller "Z-Racing" 9-3172AZR 9-3672TX3ZR 9-3672TX9ZR 9-302 LS2/LS3 6.0, 6.2 (single bolt cam / four sensor hub) single roller "Z-Racing" 9-3673TX3ZR 9-3673TX9ZR 9-302 LS7 (three bolt cam / four sensor hub) single roller "Z-Racing" 9-3167AZR 9-3667TX3ZR 9-302 REPLACEMENT NEEDLE BEARING for LS sets = Part #9-232 Damper included on single bolt sets as noted REPLACEMENT DAMPER above, but can be ordered as option for all your PART #9-5491 LS applications. FOR THE RACER THAT WANTS

VVT
TENSIONER
ELIMINATION
KIT FOR LS



TO TUNE FOR OPTIMUM
PERFORMANCE, THIS KIT
ELIMINATES THE COMMON
PROBLEM AREA - TENSIONER
FAILURE.

HIGH PERFORMANCE SPEED SETS

17

Julius Comments		GOOL		→ BE	TTER =	\longrightarrow BE	ST
(CLOYES	3 ®	STI	REET S	ETS	RAC	E TRUE®	SETS
# CTOITS		HEAT-TREA	ATED, BILLET S		HAND-MATCHED	with PREMIUM TRUE	ROLLER CHAIN
7		HEAVY	STREET	STREET	RACE	RACE	BILLET
Make/Engine/Yea	r	DUTY X = 3 KEYWAY	TRUE® 3 KEYWAY	BILLET 9 KEYWAY	TRUE®		JE®
		DBL ROLLER	-	ROLLER CHAIN	3 KEYWAY	3 KEYWAY	9 KEYWAY
CHRYSLER							
V-6 238 (3.9)							
V-8 273, 315, 318, 325, 326,	1956-91	C-3028X	9-1103	9-3503X9	9-3103	9-3603X3	9-3603X9
340, 354, 360, 392 Hemi							
center distance = 6.125							
Big Block - One Bolt		0.0044	0.4404	0.050470	0.0404	0.000470	0.000470
V-8 350, 361, 383, 400, 413W, 426W, 426 Hemi, 440	1958-78	C-3044	9-1104	9-3504X9	9-3104	9-3604X3	9-3604X9
center distance = 5.152		single keyway					
Big Block - Three Bolt							
V-8 350, 361, 383, 400, 413W,	1958-78	C-3045	9-1125	9-3525TX9	9-3125	9-3625TX3	9-3625TX9
426W, 426 Hemi, 440 center distance = 5.152		single keyway			optional -5 -10	optional -5 -10	optional -5 -10
Hex-A-Just® for CHRYS	LER B	B 3 BOL	T - Par	t #9-3125	A	(also optional	in -5 and -10)
V-10 8.0L Viper (3 Bolt) center distance = 6.125	1996-02	Н	lex-A-J	ust® for	VIPER - P	art #9-31	52A
REDUCED CEN	TER D	ISTANCI	E FOR	ALIGN H	ONED APP	PLICATION	IS

REDUCED CENTER DISTANCE FOR ALIGN HONED APPLICATIONS

Some Race True Roller sets are available in reduced center distance as noted by optional -5 and -10. To order, just add suffix to the part number. For example, 9-3100 becomes 9-3100-5 (for .005 undersized).



UPGRADE YOUR THREE BOLT TO Z-RACING!!

CHRYSLER BB THREE BOLT

"Z-Racing" Series Race Billet True® Roller with 9 Keyway Part #9-3625TX9Z

See opposite page for more details of Cloyes "Z-Racing"



The only choice for SERIOUS RACING!

The exclusive Cloyes "Z" chain is the most durable and dependable chain available today - offering 33% more overall strength than our current premium chain.

The double roller Z-Chain is made from high strength steel with proprietary heat-treat processing. The fine blanked links reduce stress risers, thus reducing fractures under severe load. The press fit center links improve load share by reducing load spikes on any single component and providing greater overall strength.





Available for These (and More) Popular Engines

"Z-Racing" Series	RACE	HEX-A-	
Application Listing	3 KEY	JUST®	
Chevy Small Block	9-3600TX3Z	9-3600TX9Z	9-3100AZ
Chevy Small Blk w/ BB Crank Snout	9-3600BTX3Z		9-3100BZ
Chevy Small Block "Rocket" Block	9-3646TX3Z	9-3646TX9Z	9-3146AZ
Chevy SB "Rocket" w/BB Crank Snout	9-3646BTX3Z		9-3146BZ
Chevy Big Block	9-3610TX3Z	9-3610TX9Z	9-3110AZ
Ford SB - factory one pc f/p eccentric	9-3635X3Z	9-3635X9Z	9-3135AZ

See application listings for complete offerings.



GOOD = BETTER **STREET SETS**

HEAT-TREATED, BILLET STEEL CRANK

HEAVY STREET STREET **TRUE**® **BILLET** DUTY

MAKE / ENGINE / VEAD

	MAKE / ENGINE / YE	X = 3 KEYWAY DBL ROLLER	3 KEYWAY .250 TRUE RO	9 KEYWAY OLLER CHAIN	
E	ORD				
1	V-6 SVO 3.8 V-6 3.8-3, 3.8-4 center distance = 5.192	All Years 1982-87	Available in	Race Sets (Only
2	V-8 Small Block 221, 255, 260, 289 Std, 302 H/O, 351 Std, 351W H/O (to 03/21/84) factory one-pc fuel pump eccentric center distance = 4.804	1962-84	C-3054X	9-1135	9-3535X9
3	V-8 Small Block 302 Std, 302 (5.0) H/O (from 03/21/84), 351W Std factory two-pc fuel pump eccentric center distance = 4.804	1972-01	C-3057X	9-1138	
4	V-8 351C, 351M, 400 center distance = 5.044	1970-82		9-1121	9-3521X9
5	V-8 FE 352, 360, 390, 410, 427, 428 center distance = 5.044	1963-73	C-3029X	9-1108	9-3508X9
6	V-8 Big Block 429, 460 factory set Top Dead Center center distance = 6.078	1968-71	C-3079X	9-1122	9-3522X9
7	V-8 Big Block 429, 460 factory set 8 Degree Retard center distance = 6.078	1972-87	Available in	Race Sets (Only
8	V-8 Big Block 460 factory set Top Dead Center center distance = 6.078	1988-92	C-3079X	9-1122	9-3522X9



	$\longrightarrow BE$	ST		BEST and	d ADJUS	TABLE	
		RAC	E TRUE®	ROLLE	R SETS	3	
	INDUCTION HEA	AT-TREATED SPROCK	ETS HAND-MATCHED v	vith PREMIUM TRUE	® ROLLER CHAIN	or Z-CHAIN (where	e available)
	RACE TRUE®	RACE BILL X3 = 3 KEYWAY	ET TRUE® X9 = KEYWAY	HEX-A- ADJUSTAB	JUST® LE + or - 6°	QUICK A ADJUSTAB	DJUST® LE + or - 6°
	3 KEYWAY	TRUE®	Z-Racing	TRUE®	Z-Racing	TRUE®	Z-Racing
1	9-3148						
2	9-3135	9-3635X3 9-3635X9	9-3635X3Z 9-3635X9Z	9-3135A		9-3735	9-3735Z
	optional -5 -10	optional -5 -10	optional -5 -10	optional -5 -10		optional -5 -10	optional -5 -10
3	9-3138 optional -5 -10			9-3135A		9-3738	call tech
4	9-3121	9-3621X3 9-3621X9		9-3121A			
5	9-3108	9-3608X3 9-3608X9		9-3108A			
6	9-3122 optional -5 -10	9-3622X3 9-3622X9 optional -5 -10	9-3622X9Z	9-3122A optional -5 -10		9-3722 optional -5 -10	
7	9-3130						
8	9-3122	9-3622X3 9-3622X9	9-3622X9Z	9-3122A		9-3722	
	optional -5 -10	optional -5 -10		optional -5 -10		optional -5 -10	

"We have been using Cloyes Quick Adjust Timing sets with their Premium chains and cam sprockets in our big block Ford blown alcohol injected engines for three years. Our monster trucks put these components to the test as we run high temperatures in our motors during the 90 second to 3 minute freestyle competitions and during racing. In the 27 years we have been racing monster trucks we haven't come across a roller chain set that lasts as long with little stretch as Cloyes. We also like the adjustability of the cam sprocket which enables us to dial our cam degree in easier than other brands. Based on our experience and compared to other products Cloyes is your best bet for any application be it performance or street vehicles."



Michael Vaters Black Stallion Monster Truck Racing

Hex-A-Just® on Ford Modular

Increase both torque and horsepower with improved cam timing

HEX-A-JUST® DESIGN

This exclusive Hex-A-Just® product utilizes a one-piece cam sprocket design that functions in the same way as the OE configuration. It uses a stainless steel adjuster plate of specified hardness and thickness that replaces the OE cam sprocket washer. The sprockets are precision machined from premium billet steel on our state-of-the-art CNC equipment. They are then induction hardened and oil-quenched using our in-house multi-stage heat treat process.

In addition to this unique design, every Hex-A-Just® cam sprocket is hand-matched by a qualified technician. Much effort is applied to the indexing features of these parts. This ensures proper fitment and accurate adjustability.

HEX-A-JUST® BENEFITS

The patented Cloyes Hex-A-Just® system allows you to fine tune your modular engine to meet any custom camshaft requirement to maximize engine output.

The 2V engine contains individual bank valve trains that are controlled by two separate chains and cam sprockets. The patented Cloyes Hex-A-Just® system allows you to quickly make adjustments to balance the right and left banks.

In addition, the 4V engine contains secondary drives to control the intake cams. The Hex-A-Just® primary cam sprockets allow you to balance the banks, while the 9-keyway secondary cam sprockets give you the tools required to adjust exhaust cam to intake cam overlap.





Our design is what makes the Cloyes product unique!

The Dowel indexes with the camshaft keyway and the adjuster Plate Index Feature locates the cam sprocket C'Bore. With everything now concentric, the Capscrews only purpose is to hold the selected adjustment until the camshaft bolt is torqued to specification.



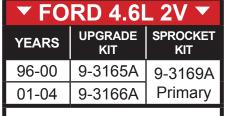
This adjusting tool with keychain is included in all kits. The keychain is both for your Mustang Key and to keep you from dropping the adjustment tool somewhere difficult to retrieve!

These two crank sprockets are used with the appropriate OE reluctor wheels.



For use with OE *thick* reluctor

For use with OE thin rejuctor.



2V









Patented Hex-A-Just® allows +/- 4°

- Precision machined, billet steel sprockets
- Induction heat-treated for wear resistance
- 9-keyway secondary cam sprockets allow +/- 4°
- Secondary sprockets adjustable in 1° increments
- Upgraded Z-Racing secondary racing roller chains
- All components compatible with OE







JEEP



GOOD BETTER STREET SETS

BEST

RACE TRUE® SETS

HEAVY STREET STREET **DUTY TRUE**® **BILLET** 3 KEYWAY 9 KEYWAY X = 3 KEYWAY

HEAT-TREATED, BILLET STEEL CRANK

RACE RACE BILLET **TRUE® TRUE® 3 KEYWAY** 3 KEYWAY 9 KEYWAY

|--|

I-4 150 (2.5) center distance = 5.045	1983-02	 	 9-3127	
I-6 232, 242, 258 center distance = 5.045	1964-98	 	 9-3127	
V-8 304, 360, 401 center distance = 4.965	1971-81	 9-1118	 9-3118	

OLDSMOBILE

V-8 260F, 307, 330, 350R, 400, 403, 425, 455	1964-87	 9-1113	9-3513X9	9-3113	9-3613X3	9-3613X9
center distance = 5 044						

HEX-A-JUST® SET FOR OLDSMOBILE V8 - PART #9-3113A

PONTIAC

V-8 287, 316, 326, 347, 350P, 370, 389, 400, 421, 428, 455	1955-79	C-3043	9-1112	9-3512X9	9-3112	9-3612X3	9-3612X
center distance = 5.192					optional -5 -10	optional -5 -10	optional -5 -

FOR PONTIAC LT and LS ENGINES, see CHEVROLET APPLICATIONS

RANGE ROVER

V-8 215 (3.5) 1969-74 9-1132 9-3532X9 9-3132 9-3632X3 9-3632X9

REDUCED CENTER DISTANCE FOR ALIGN HONED APPLICATIONS
Some Race True Roller sets are available in reduced center distance as noted by optional -5 and -10.
To order, just add suffix to the part number. For example, 9-3100 becomes 9-3100-5 (for .005 undersized).

UPGRADE YOUR PONTIAC with Cloyes **Z-RACING!!**

See page 17 for more details

Pontiac Coverage Race Billet 3 Key 9-3612X3Z Race Billet 9 Key 9-3612X9Z





Replace your stock timing chain with a Precision Gear Drive. Known for years to simulate that "blower" sound. The gears are machined from premium billet steel on our state-of-the-art CNC equipment then induction hardened and oil-quenched using our in-house multi-stage heat treat process. Our Idler Gear assembly, with its honed idler gear bores, precision ground pins, and heavy duty idler brackets, ensures precise timing through the entire RPM range.

Dual Idler Gear Drive features:

- Induction Heat-Treated. Billet Steel Gears
- 3 Keyway Crank Gear, +/- 40
- Precision Idler Gear Assembly
- Includes Cam Button and Thrust Washer (where appl)
- Designed to fit under stock cover (see GM note below)
- Hand-Assembled for Quality Assurance



SMALL BLOCK CHEVY #8-5100 COMES IN ATTRACTIVE DISPLAY PACKAGING

REPLACEMENT PARTS

23

CHEVROLET SMALL BLOCK	GEAR DRIVE	CAM BUTTON	THRUST WASHER
1955-1996 non-Factory Roller Cam V-6 200 229 262 (4.3Z w/o Balance Shaft) V-8 262 265 267 283 302 305G 305H 307 327 350L 400	8-5100 8-5100Q (quiet)	9-205	P9070
1985-2002 with Factory Roller Cam V-6 200 229 262 (4.3Z w/o Balance Shaft) V-8 262 265 267 283 302 305G 305H 307 327 350L 400	8-5145	NOT REQUIRED	P9075
CHEVROLET BIG BLOCK	GEAR DRIVE	CAM BUTTON	THRUST WASHER
1965-1998 non-Factory Roller Cam V-8 396 400 402 427 454	8-5110	9-205	P9082

GM Application notes:

- 1. Only functions properly with GM-style sheet metal timing covers.
- 2. Not designed for use on engines with crank reluctor wheels.

FORD SMALL BLOCK	GEAR	CAM	THRUST
	DRIVE	BUTTON	WASHER
1962-2001 V-8 289 302 351W	8-5135	NOT REQUIRED	P9075

Ford Application notes:

- 1. Only functions properly with one piece or no fuel pump eccentric.
- 2. Designed to work with both non-roller and roller cam.

MATCHED GEAR SETS - FOR INLINE ENGINES ACCESSORIES

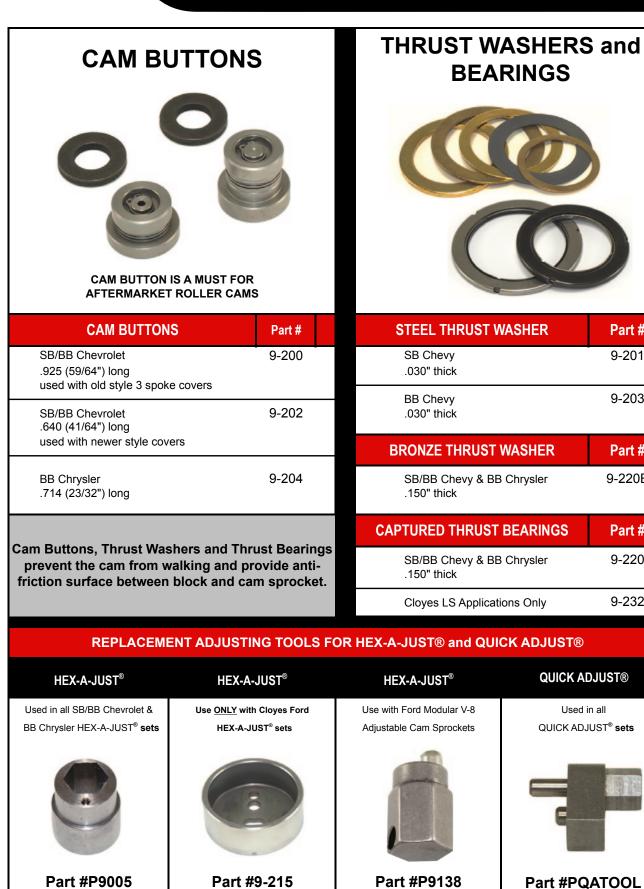


Cloyes has been making engine timing gears since the 1920's. No other company has the experience of Cloyes in making precision engine gears. Designed for true performance!

Matched Gear Sets feature:

- Precision Hobbed and Crown Shaved Gears
- Billet Steel, Three Keyway Crank Gears allow +/- 4° Adjustment
- Hand Matched to Qualify Proper Center Distance and Backlash

CHEVROLET I-4 & I-6	PART #
1962-1993 (also used in GMC) Steel Crank Gear – Aluminum Cam Gear	8-1016
1962-1993 (also used in GMC) Steel Crank Gear – Ductile Iron Cam Gear (SPUR CUT)	8-1018
FORD I-6	PART #
1965-1996 Steel Crank Gear – Aluminum Cam Gear	8-1014
PONTIAC I-4	PART #
1980-1990 (also used in Buick & Oldsmobile) Steel Crank Gear – Ductile Iron Cam Gear (SPUR CUT)	8-1018



FOR REPLACEMENT GEAR DRIVE PARTS, REFER TO PAGE 23 FOR REPLACEMENT QUICK BUTTON PARTS, REFER TO PAGE 4 Part #

9-201

9-203

Part #

9-220B

Part #

9-220

9-232

MARINE APPLICATIONS

MARIN	IE ENGINE (GUIDE

Engine Make / Description	Recommended
Chevrolet	Set #
2.5L I-4	2528S
4.3L V-6 w/o Balance Shaft	9-3600WX3 or X9
4.3L V-6 w/Balance Shaft	9-3654X3
350 V-8 Small Block w/o Factory Roller Cam	9-3600WX3 or X9
350 V-8 Small Block w/Factory Roller Cam	9-3645X3 or X9
350 V-8 SB Vortec (L31)	9-3157
454 V-8 Big Block w/o Factory Roller Cam	9-3610WX3 or X9
Gen 5 V-8 Big Block w/o Factory Factory Cam	9-3610WX3 or X9
Gen 5/6 V-8 Big Block w/Factory Roller Cam	9-3670X3
8.1L V-8 Big Block	9-9110
Chrysler	Set #
318/360 V-8 Big Block - single bolt	9-3604X3 or X9
318/360 V-8 Big Block - three bolt	9-3625X3 or X9
Ford	Set #
289/302/351 V-8 – one pc fuel pump eccentric	9-3635X3 or X9
289/302/351 V-8 – two pc fuel pump eccentric	9-3138
351C/351M/400 V-8	9-3621X3 or X9
428 V-8 FE	9-3608X3 or X9
429/460 V-8 Big Block	9-3622X3 or X9

All of the above are Standard Rotation sets.

Refer to our Stock Replacement Catalog for OE Reverse Rotation sets





		REPLAC	CEMENT CHAIN	INFO
Set #	Make	CHAIN#	STYLE	LINKS
Heavy Dut	y Timing Sets	;		
C-3023X	Chevrolet	C163	Double Roller	58
C-3024X	Chevrolet	C168	Double Roller	66
C-3028X	Chrysler	C160	Double Roller	68
C-3029X	Ford	C169	Double Roller	64
C-3043	Pontiac	C165	Double Roller	60
C-3044	Chrysler	C168	Double Roller	66
C-3045	Chrysler	C168	Double Roller	66
C-3054X	Ford	C163	Double Roller	58
C-3055	Chevrolet	9-4149	Single Roller	46
C-3057X	Ford	C163	Double Roller	58
C-3079X	Ford	C168	Double Roller	66
C-3092	Chevrolet	9-4149	Single Roller	46
Street True	e® Rollers			
9-1100	Chevrolet	9-145	Double Roller	58
9-1100T	Chevrolet	9-145	Double Roller	58
9-1101	Chevrolet	9-4160	Double Roller	48
9-1103	Chrysler	9-147	Double Roller	68
9-1104	Chrysler	9-146	Double Roller	66
9-1108	Ford	9-149	Double Roller	64
9-1110	Chevrolet	9-146	Double Roller	66
9-1110T	Chevrolet	9-146	Double Roller	66
9-1112	Pontiac	9-148	Double Roller	60
9-1113	Oldsmobile	9-149	Double Roller	64
9-1118	AMC	9-142	Double Roller	62
9-1121	Ford	9-149	Double Roller	64
9-1122	Ford	9-146	Double Roller	66
9-1125	Chrysler	9-146	Double Roller	66
9-1132	Buick	9-143	Double Roller	54
9-1134	Buick	9-143	Double Roller	54
9-1135	Ford	9-145	Double Roller	58
9-1138	Ford	9-145	Double Roller	58
9-1139	Cadillac	9-4160	Double Roller	48
9-1144	Buick	9-149	Double Roller	64
9-1145	Chevrolet	9-145	Double Roller	58
9-1146	Chevrolet	9-148	Double Roller	60
9-1146T	Chevrolet	9-148	Double Roller	60
9-1147	Chevrolet	9-147	Double Roller	68
9-1157	Chevrolet	9-4149	Single Roller	46
Street Bille	et True® Rolle	ers		
9-3500TX9	Chevrolet	9-145	Double Roller	58
9-3503X9	Chrysler	9-147	Double Roller	68
9-3504X9	Chrysler	9-146	Double Roller	66
9-3508X9	Ford	9-149	Double Roller	64
9-3510TX9	Chevrolet	9-146	Double Roller	66
9-3512X9	Pontiac	9-148	Double Roller	60
9-3513X9	Oldsmobile	9-149	Double Roller	64
9-3521X9	Ford	9-149	Double Roller	64
9-3522X9	Ford	9-146	Double Roller	66
9-3525TX9	Chrysler	9-146	Double Roller	66
9-3532X9	Buick	9-143	Double Roller	54
9-3534X9	Buick	9-143	Double Roller	54
9-3535X9	Ford	9-145	Double Roller	58
9-3545X9	Chevrolet	9-145	Double Roller	58
9-3546TX9	Chevrolet	9-148	Double Roller	60
9-3547TX9	Chevrolet	9-147	Double Roller	68

		REPLA	CEMENT CHAIN	INFO
Set #	Make	CHAIN#	STYLE	LINK
Original Ra	ce True® Ro	llers		
9-3100	Chevrolet	9-130	Double Roller	58
9-3103	Chrysler	9-135	Double Roller	68
9-3104	Chrysler	9-134	Double Roller	66
9-3108	Ford	9-133	Double Roller	64
9-3110	Chevrolet	9-134	Double Roller	66
9-3112	Pontiac	9-131	Double Roller	60
9-3113	Oldsmobile	9-133	Double Roller	64
9-3118	AMC	9-132	Double Roller	62
9-3121	Ford	9-133	Double Roller	64
9-3122	Ford	9-134	Double Roller	66
9-3125	Chrysler	9-134	Double Roller	66
9-3127	AMC	9-133	Double Roller	64
9-3130	Ford	9-134	Double Roller	66
9-3132	Buick	9-138	Double Roller	54
9-3134	Buick	9-138	Double Roller	54
9-3135	Ford	9-130	Double Roller	58
9-3137	Chevrolet	9-133	Double Roller	64
9-3138	Ford	9-130	Double Roller	58
9-3144 9-3145	Chevrolet Chevrolet	9-133 9-130	Double Roller Double Roller	64 58
9-3145 9-3146	Chevrolet	9-131	Double Roller	60
9-3147	Chevrolet	9-135	Double Roller	68
9-3148	Ford	9-131	Double Roller	60
9-3157	Chevrolet	9-193	Single Roller	46
9-3157X1	Chevrolet	9-193	Single Roller	46
Race Billet	True® Roller	rs	, and the second	
9-3600BTX3	Chevrolet	9-130	Double Roller	58
9-3600BTX3Z	Chevrolet	9-130Z	Double Roller	58
9-3600TX3	Chevrolet	9-130	Double Roller	58
9-3600TX3Z	Chevrolet	9-130Z	Double Roller	58
9-3600TX9	Chevrolet	9-130	Double Roller	58
9-3600TX9Z	Chevrolet	9-130Z	Double Roller	58
9-3601X3	Chevrolet	9-133	Double Roller	64
9-3603X3	Chrysler	9-135	Double Roller	68
9-3603X9	Chrysler	9-135	Double Roller	68
9-3604X3	Chrysler	9-134	Double Roller	66
9-3604X9	Chrysler	9-134	Double Roller	66
9-3608X3	Ford	9-133	Double Roller	64
9-3608X9	Ford	9-133	Double Roller	64
9-3610TX3	Chevrolet	9-134	Double Roller	66
9-3610TX3Z	Chevrolet	9-134Z	Double Roller	66
9-3610TX9	Chevrolet	9-134	Double Roller	66
9-3610TX9Z	Chevrolet	9-134Z	Double Roller	66
9-3612X3 0.3612X37	Pontiac	9-131	Double Roller	60
9-3612X3Z 0.3612X0	Pontiac	9-131Z 0.131	Double Roller Double Roller	60
9-3612X9 9-3612X97	Pontiac Pontiac	9-131 9-131Z	Double Roller Double Roller	60 60
9-3612X9Z 9-3613X3	Oldsmobile	9-1312	Double Roller Double Roller	64
9-3613X9	Oldsmobile	9-133	Double Roller Double Roller	64
9-3621X3	Ford	9-133	Double Roller	64
9-3621X9	Ford	9-133	Double Roller	64
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Photo supplied by: MPM Racing

REPLACEMENT CHAIN REFERENCE

	REPLACE	MENT CHA	AIN GUIDE			
		REPLACEMENT CHAIN INFO				
Set #	Make	CHAIN#	STYLE	LINKS		
9-3622X9	Ford	9-134	Double Roller	66		
9-3622X9Z	Ford	9-134Z	Double Roller	66		
9-3625TX3	Chrysler	9-134	Double Roller	66		
9-3625TX9	Chrysler	9-134	Double Roller	66		
9-3625TX9Z	Chrysler	9-134Z	Double Roller	66		
9-3632X3	Buick	9-138	Double Roller	54		
9-3632X9	Buick	9-138	Double Roller	54		
9-3634X3	Buick	9-138	Double Roller	54		
9-3634X9	Buick	9-138	Double Roller	54		
9-3635X3	Ford	9-130	Double Roller	58		
9-3635X3Z	Ford	9-130Z	Double Roller	58		
9-3635X9	Ford	9-130	Double Roller	58		
9-3635X9Z	Ford	9-130Z	Double Roller	58		
9-3639X3	Cadillac	9-190	Single Roller	48		
9-3645X3	Chevrolet	9-130	Double Roller	58		
9-3645X9	Chevrolet	9-130	Double Roller	58		
9-3646BTX3	Chevrolet	9-131	Double Roller	60		
9-3646BTX3Z	Chevrolet	9-131Z	Double Roller	60		
9-3646TX3	Chevrolet	9-1312	Double Roller	60		
9-3646TX3Z	Chevrolet	9-131Z	Double Roller	60		
9-3646TX9	Chevrolet	9-131	Double Roller	60		
9-3646TX9Z	Chevrolet	9-131Z	Double Roller	60		
9-3647TX3	Chevrolet	9-135	Double Roller	68		
9-3647TX9	Chevrolet	9-135	Double Roller	68		
9-3649X3	Chevrolet	9-192	Single Roller	50		
9-3651X3	Chevrolet	9-193	Single Roller	46		
9-3654X3	Chevrolet	9-193	Single Roller	46		
9-3655X3	Chevrolet	9-192	Single Roller	50		
9-3658TX3	Chevrolet	9-304	Single Roller	60		
	Chevrolet		•			
9-3658TX3Z		9-303 9-302	Single Roller	60 60		
9-3658TX3ZR	Chevrolet		Single Roller			
9-3658TX9	Chevrolet	9-304	Single Roller	60		
9-3658TX9Z	Chevrolet	9-303	Single Roller	60		
9-3658TX9ZR	Chevrolet	9-302	Single Roller	60		
9-3659X3	Chevrolet	9-131	Double Roller	60		
9-3659X3R	Chevrolet	9-132	Double Roller	62		
9-3667TX3	Chevrolet	9-304	Single Roller	60		
9-3667TX3Z	Chevrolet	9-303	Single Roller	60		
9-3667TX3ZR	Chevrolet	9-302	Single Roller	60		
9-3670X3	Chevrolet	9-134	Double Roller	66		
9-3672TX3	Chevrolet	9-304	Single Roller	60		
9-3672TX3Z	Chevrolet	9-303	Single Roller	60		
9-3672TX3ZR	Chevrolet	9-302	Single Roller	60		
9-3672TX9	Chevrolet	9-304	Single Roller	60		
9-3672TX9Z	Chevrolet	9-303	Single Roller	60		
9-3672TX9ZR	Chevrolet	9-302	Single Roller	60		
9-3673TX3	Chevrolet	9-304	Single Roller	60		
9-3673TX3Z	Chevrolet	9-303	Single Roller	60		
9-3673TX3ZR	Chevrolet	9-302	Single Roller	60		
9-3673TX9	Chevrolet	9-304	Single Roller	60		
9-3673TX9Z	Chevrolet	9-303	Single Roller	60		
9-3673TX9ZR	Chevrolet	9-302	Single Roller	60		

	REPLACE	REPLACEMENT CHAIN GUIDE					
		REPLACEMENT CHAIN INFO					
Set #	Make	CHAIN#	STYLE	LINKS			
Hex-A-Just	t® True® Rol	lers					
9-3100A	Chevrolet	9-130	Double Roller	58			
9-3100AZ	Chevrolet	9-130Z	Double Roller	58			
9-3100B	Chevrolet	9-130	Double Roller	58			
9-3100BZ	Chevrolet	9-130Z	Double Roller	58			
9-3100C	Chevrolet	9-130	Double Roller	58			
9-3100D	Chevrolet	9-130	Double Roller	58			
9-3108A	Ford	9-133	Double Roller	64			
9-3110A	Chevrolet	9-134	Double Roller	66			
9-3110AZ	Chevrolet	9-134Z	Double Roller	66			
9-3113A	Oldsmobile	9-133	Double Roller	64			
9-3121A	Ford	9-133	Double Roller	64			
9-3122A	Ford	9-134	Double Roller	66			
9-3125A	Chrysler	9-134	Double Roller	66			
9-3135A	Ford	9-130	Double Roller	58			
9-3145A	Chevrolet	9-130	Double Roller	58			
9-3145B	Chevrolet	9-130	Double Roller	58			
9-3146A	Chevrolet	9-131	Double Roller	60			
9-3146AZ	Chevrolet	9-131Z	Double Roller	60			
9-3146B	Chevrolet	9-131	Double Roller	60			
9-3146BZ	Chevrolet	9-131Z	Double Roller	60			
9-3147A	Chevrolet	9-135	Double Roller	68			
9-3149A	Chevrolet	9-192	Single Roller	50			
9-3152A	Dodge	9-135	Double Roller	68			
9-3155A	Chevrolet	9-192	Single Roller	50			
9-3158A	Chevrolet	9-304	Single Roller	60			
9-3158AZ	Chevrolet	9-303	Single Roller	60			
9-3158AZR	Chevrolet	9-302	Single Roller	60			
9-3159A	Chevrolet	9-131	Double Roller	60			
9-3159AR	Chevrolet	9-132	Double Roller	62			
9-3167A	Chevrolet	9-304	Single Roller	60			
9-3167AZ	Chevrolet	9-303	Single Roller	60			
9-3167AZR	Chevrolet	9-302	Single Roller	60			
9-3170A	Chevrolet	9-134	Double Roller	66			
9-3172A	Chevrolet	9-304	Single Roller	60			
9-3172AZ	Chevrolet	9-303	Single Roller	60			
9-3172AZR	Chevrolet	9-302	Single Roller	60			
Quick Adiu	st True® Rol	lers					
9-3700	Chevrolet	9-130	Double Roller	58			
9-3700B	Chevrolet	9-130	Double Roller	58			
9-3700BZ	Chevrolet	9-130Z	Double Roller	58			
9-3700Z	Chevrolet	9-130Z	Double Roller	58			
9-3710	Chevrolet	9-134	Double Roller	66			
9-3710Z	Chevrolet	9-134Z	Double Roller	66			
9-3722	Ford	9-134	Double Roller	66			
9-3735	Ford	9-130	Double Roller	58			
9-3735Z	Ford	9-130Z	Double Roller	58			
9-3738	Ford	9-130	Double Roller	58			
9-3746	Chevrolet	9-131	Double Roller	60			
9-3746B	Chevrolet	9-131	Double Roller	60			
9-3746BZ	Chevrolet	9-131Z	Double Roller	60			
9-3746Z	Chevrolet	9-131Z 9-131Z	Double Roller	60			
0 01 TUL	Chevrolet	9-135	Double Roller	68			

Quick Reference Lookup

for our Most Popular Racing Applications

	STREET SETS		PREMIUM RACE TRUE® ROLLER SETS							
	HEAT-TREATED, BILLET STEEL CRANK		INDUCTION HEAT-TREATED, CAST, DUCTILE or BILLET STEEL SPROCKETS,							
PRODUCT CATEGORY	STREET TRUE®	STREET BILLET 9 Keyway	RACE TRUE®	RACE BILLET 3 or 9 Keyway	HEX-A- JUST®	QUICK BUTTON TWO PC COVER	QUICK ADJUST®			
CHEVROLET										
CHEVY SMALL BLOCK	9-1100	9-3500TX9	9-3100	9-3600TX3 or X9	9-3100A	9-221	9-3700			
CHEVY SB "Rocket"	9-1146	9-3546TX9	9-3146	9-3646TX3 or X9	9-3146A	9-226	9-3746			
- with BB Crank Snout				9-3646BTX3	9-3146B	9-229	9-3746B			
CHEVY SB Factory Roller	9-1145	9-3545X9	9-3145	9-3645X3 or X9	9-3145A	9-225				
CHEVY LS Engines			Over 30 LS sets available - see full details on page 15							
CHEVY BIG BLOCK	9-1110	9-3510TX9	9-3110	9-3610TX3 or X9	9-3110A	9-231	9-3710			
CHEVY BB Gen VI				9-3670X3	9-3170A					
CHRYSLI	ER									
CHRYSLER SB V6/V8	9-1103	9-3503X9	9-3103	9-3603X3 or X9						
CHRYSLER BB - THREE BOLT CAM	9-1125	9-3525TX9	9-3125	9-3625TX3 or X9	9-3125A					
FORD										
FORD 4.6 MOD 2V & 4V			Ford Modular 2v and 4v Coverage see pages 20-21							
FORD V8 SB - Early - ONE PC FUEL PUMP ECC	9-1135	9-3535X9	9-3135	9-3635X3 or X9	9-3135A		9-3735			
FORD V8 SB - Late - TWO PC FUEL PUMP ECC	9-1138		9-3138		9-3135A		9-3738			
FORD BB 429, 460 TDC	9-1122	9-3522X9	9-3122	9-3622X3 or X9	9-3122A		9-3722			

THIS IS A PARTIAL LISTING OF THE MOST POPULAR APPLICATIONS. FOR ADDITIONAL APPLICATIONS PLEASE REFER TO FULL APPLICATION LISTINGS BEGINNING PAGE 9

FOR REPLACEMENT CHAIN LISTINGS FOR ALL SPEED SETS REFER TO PAGES 27-28





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