

Weatherly 050-052

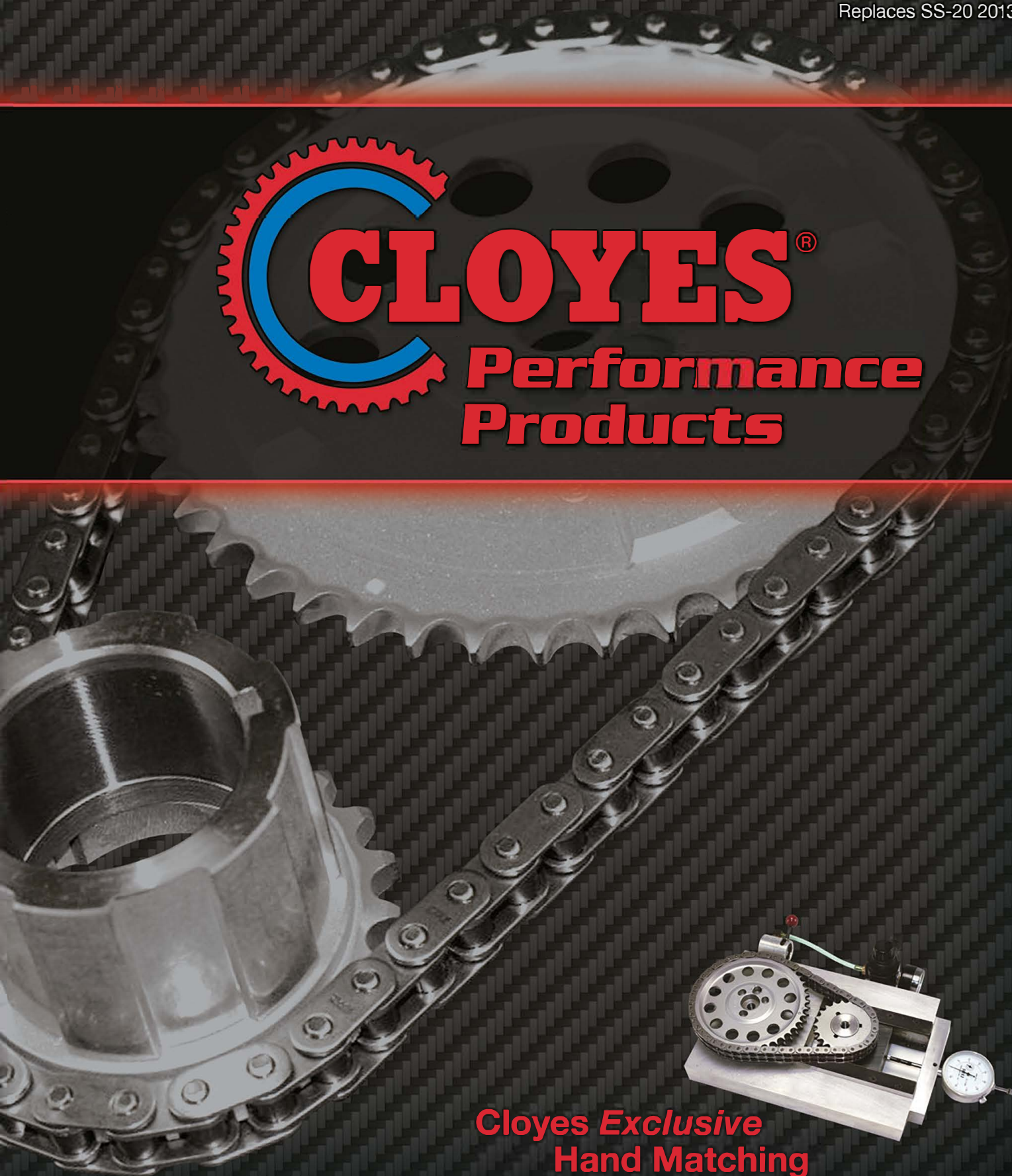
2017

Catalog No. SS-21

Replaces SS-20 2013



**Performance
Products**



**Cloyes Exclusive
Hand Matching**

Our 47 Years of Racing Heritage!



Back in the late 60s, the Cloyes engineering team, headed by Mr. Bob Bub, saw the surging popularity of the weekend racer and set out to develop products to service the race crowd. In 1970, Mr. Bub and his team developed and marketed the very first TRUE® Roller Speed set. With its balanced and multi-keyway sprockets, hand-matched with a new chain featuring solid bushing type rollers, the TRUE® Roller set was designed for racing and changed the timing game forever. In this 1972 letter, Junior Johnson attributes the new Cloyes TRUE® Roller set to aiding in their win at Atlanta (with Bobby Allison driving). They won 10 races that year. The Cloyes name soon became known for the best racing timing set in the U.S.



As racing grew both professionally and at the enthusiast level, the Cloyes line of High Performance cam drives grew with it. Over the years, Cloyes engineers have collaborated on projects with some of the legendary names in racing – names like Hendrick, Roush, Yates, Dorton, Mondello, as well as the major racing programs at GM, Ford, Mopar, and Mercury Marine.

As competitors came into the market with copy-cat speed sets, we needed to take it up a notch. In 1992, Cloyes developed and patented the Hex-A-Just® TRUE® Roller. Hex-A-Just® was an industry first, allowing an engine builder to easily adjust valve timing with the turn of an allen wrench, saving hours on the dyno or at the track. We soon added our Quick Button 2 pc Timing Cover allowing easy access to the timing adjustment. Cloyes developed over five patents that complimented our Hex-A-Just system, which remains the premier adjustable timing set on the market.

Cloyes Wins Indy!! Cloyes helped power Arie Luyendyk's winning car at the 1997 Indianapolis 500. This was the first race featuring the Olds Aurora racing engine. Because of our close ties to GM, we were asked to make the timing set for their entries in the new Indy Racing League.

Until its demise in 2006, all the Pontiac Firebirds running in the IROC Series (International Race of Champions) were equipped with a Cloyes TRUE® Roller set. Other notable accomplishments include Mike Vater's "Overkill Evolution" as the 2015 Freestyle World Champion, and Rick Hernandez with the World's Fastest Cobra Jet Mustang.

Over the past 47 years, it has been our innovation and attention to detail that has set us apart from the rest. Today, Cloyes custom race products are in winning engines at all racing levels across the country and around the world. We continue to work for you, the professional racer. We know what's on the line when you head to the track. We are committed to continue providing the unmatched quality and performance you expect to keep you ahead of the competition!

We thank you for your continuing support... 47 years and counting!

WHICH SET DO YOU NEED?

HEAVY DUTY SETS **GOOD**

This standard double row chain set offers that little extra durability and peace of mind. **Heavy Duty Sets** - Double row cast iron cam sprocket with .200" or .220" double row chain and induction heat-treated billet steel 3 keyway crank sprocket. 3 keyways allow +/- 4° of adjustability at the crank, equivalent to +/- 2° of cam timing adjustment.

STREET TRUE® ROLLERS **BETTER**

Entry-level TRUE® Roller offerings for the budget-minded street enthusiast. **Street TRUE®** - Offering a .250 TRUE® Roller chain with a cast iron cam sprocket and induction heat treated billet steel 3 keyway crank sprocket. **Street Billet** - Same as above with added features of billet steel cam sprocket and 9 key crank sprocket. 9 keyways allow +/- 8° of adjustability in 2 crank degree increments.

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. Sets contain ductile iron or induction heat-treated cast iron cam sprockets and induction heat treated 3 keyway billet steel crank sprockets. Sprockets are paired with a premium .250 TR chain. The original Race set put Cloyes in the race business in 1970. **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 race-dedicated engine, with the added feature of infinite adjustability anywhere between +/- 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 +/- 6°) with the simple turn of a wrench. Add our Quick Button Two Piece Timing Cover and you are way ahead of the field!

"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 5-10 for available coverage. For more details on "Z-Racing" see page 8.

FOR REPLACEMENT CHAIN NUMBERS FOR ALL SPEED SETS - SEE PAGE 12

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

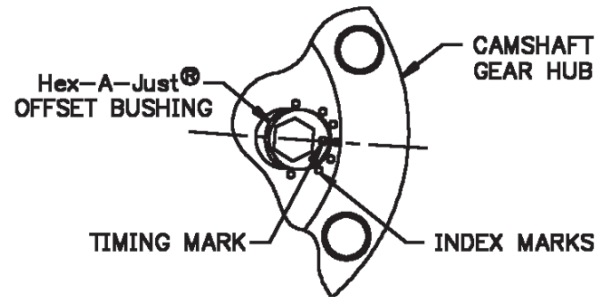
Recommended for circle track, drag racing with manual transmissions and other all-out racing applications.

How to Advance or Retard Valve Timing

Cloyes offers several different options to adjust your valve timing:

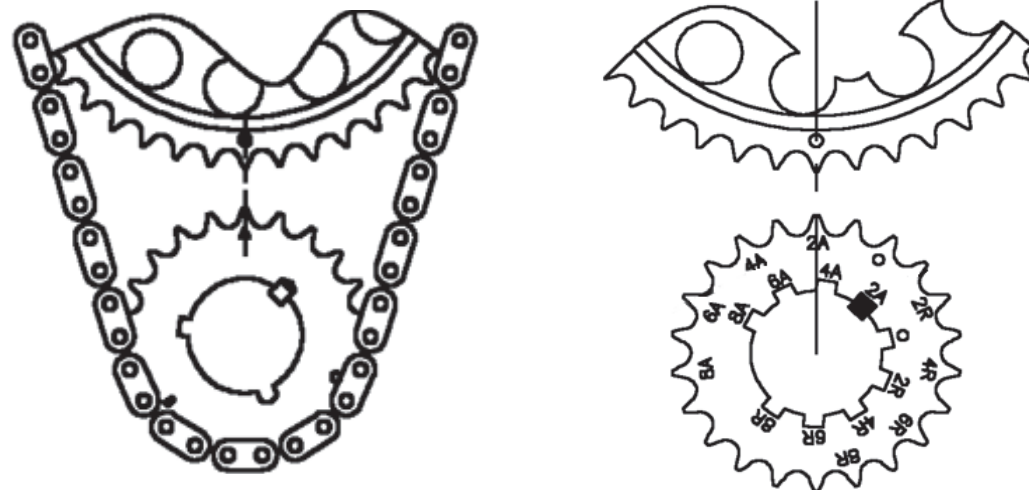
HEX-A-JUST®

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



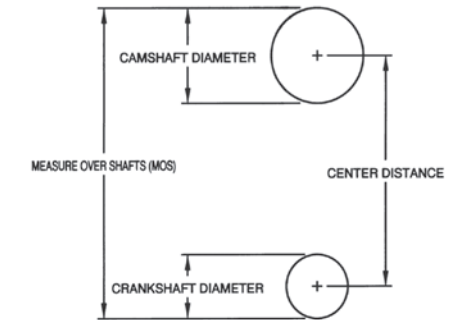
MULTIPLE KEYWAYS

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.



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

Hand Matching... A Cloyes Exclusive!

Each and every Cloyes Premium Race set (Hex-A-Just®, 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

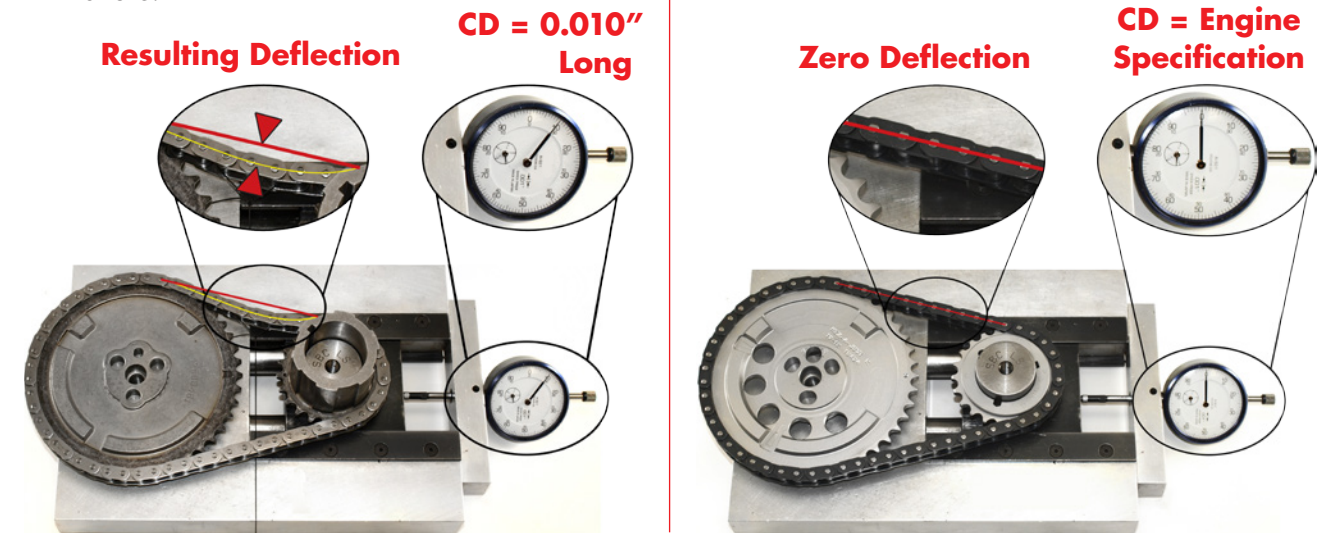
Center Distance measures 0.010" too long causing chain deflection, resulting in -

- 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.

Cloyes Hand-Matched Set

Center Distance measures to exact engine specification -

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



Reduced Center Distance Sets for Align Honed Applications

Some Race TRUE® Roller Sets are available in reduced center distance as noted by optional -5 (0.005" undersized) and -10 (0.010" undersized.) To order, just add the suffix to the part number. For example: 9-3100 becomes 9-3100-5 to order a 0.005" undersized set.

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 & Center Plate Bolts Included
- Accepts OEM-style timing cover gasket and crank shaft seal

CHEVY SMALL BLOCK

	PART #
1955-UP (non-Factory Roller Cam)	9-221
Rocket Block (Raised Cam)	9-226

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.

REPLACEMENT PARTS Plate Only (cam button not included)

For Cover#	Order Part#
9-221	9-221B
9-226	9-226B
9-231	9-221B

HIGH PERFORMANCE SPEED SETS

AMC

I-4 250 Center Distance = 5.045"	1983-84
RACE SETS	
Race TRUE® (3 Keyway)	9-3127 Optional -5 -10
I-6 199, 232, 258 Center Distance = 5.045"	1964-88
RACE SETS	
Race TRUE® (3 Keyway)	9-3127 Optional -5 -10

CADILLAC

V-8 368, 425, 472, 500 1/2" pitch single roller chain Center Distance = 5.045"	1968-84
STREET SETS	
Street TRUE® (3 Keyway)	9-1139
Street Billet (9 Keyway)	9-3539X3
RACE SETS	
Race Billet TRUE® (3 Keyway)	9-3639X3

BUICK

V-6 198, 225, 231 w/o integral distributor drive gear Center Distance = 4.335"	1962-82
STREET SETS	
Street TRUE® (3 Keyway)	9-1132
V-6 181, 198, 225, 231 (RWD) with integral distributor drive gear Center Distance = 4.335"	1977-88
STREET SETS	
Street TRUE® (3 Keyway)	9-1134
V-8 215, 300, 340, 350H, J, X Center Distance = 4.335"	1962-82
STREET SETS	
Street TRUE® (3 Keyway)	9-1132

JEEP

I-4 150 (2.5) Center Distance = 5.045"	1983-2002
RACE SETS	
Race TRUE® (3 Keyway)	9-3127 Optional -5 -10
I-6 232, 242, 258 Center Distance = 5.045"	1964-98
RACE SETS	
Race TRUE® (3 Keyway)	9-3127 Optional -5 -10

OLDSMOBILE

V-8 260F, 307, 330, 350R, 400, 403, 425, 455 Center Distance = 5.044"	1964-87
STREET SETS	
Street Billet® (9 Keyway)	9-3513X9
RACE SETS	
Race Billet TRUE® (9 Keyway)	9-3613X9 Optional -5 -10

CHRYSLER

V-6 283 (3.9) V-8 273, 315, 318, 325, 326, 340, 354, 360, 392 HEMI Center Distance = 6.125"	1956-91
STREET SETS	
Heavy Duty (3 Keyway)	C-3028X
Street Billet (9 Keyway)	9-3503X9
RACE SETS	
Race Billet TRUE® (9 Keyway)	9-3603X9 Optional -5 -10
BIG BLOCK - THREE BOLT V-8 350, 361, 383, 400, 413W, 426W, 426 HEMI, 440 Center Distance = 5.152"	1958-78
STREET SETS	
Heavy Duty (3 Keyway)	C-3045
Street Billet (9 Keyway)	9-3525TX9
RACE SETS	
Race Billet TRUE® (9 Keyway)	9-3625TX9 Optional -5 -10
BIG BLOCK - ONE BOLT V-8 350, 361, 383, 400, 413W, 426W, 426 HEMI, 440 Center Distance = 5.152"	1958-78
STREET SETS	
Heavy Duty (Single Keyway)	C-3044

PONTIAC

V-8 287, 316, 326, 347, 350P, 370, 389, 400, 421, 428, 455 Center Distance = 5.192"	1955-79
STREET SETS	
Heavy Duty	C-3043
Street Billet (9 Keyway)	9-3512X9
RACE SETS	
Race Billet TRUE® (9 Keyway)	9-3612X9 Optional -5 -10 Optional Z

CHEVROLET

CHEVROLET		STREET SETS Heat-Treated, Billet Steel Crank			RACE TRUE® ROLLER SETS Induction Heat-Treated Sprockets, Hand-Matched w/ Premium TRUE® Roller Chain or Z-Chain (where available)		
		Heavy Duty X = 3 Keyway Double Roller	Street TRUE® 3 Keyway .250 TRUE® Roller Chain	Street Billet 9 Keyway .250 TRUE® Roller Chain	Race TRUE® 3 Keyway	Race Billet TRUE® X3 = 3 Keyway X9 = 9 Keyway Z = Z-Racing	Hex-A-Just® Adjustable (+/-) 6° Z = Z-Racing
ENGINE	YEAR						
1 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 Center Distance = 4.521"	1955 - 1996	C-3023X 3 Keyway C-3055 Single Roller Single Keyway	9-1100	9-3500TX9	9-3100 Optional -5 -10	9-3600TX3 9-3600TX9 Optional -5 -10 Optional Z	9-3100A Optional -5 -10 Optional Z
	W/ BIG BLOCK CRANK SNOOT	ALL	---	---	---	9-3600BTX3 Optional -5 -10 Optional Z	9-3100B Optional -5 -10 Optional Z
2 V-6 TRUCK 4.3L W/ BALANCE SHAFT 1/2" Pitch Single Roller Chain Center Distance = 4.521"	1992 - 2006	C-3211 Single Keyway	---	---	---	---	---
3 V-6 & SMALL BLOCK V-8 Factory Roller Cam V-6 262, 4.3 w/o Bal Shaft V-8 305E, F, G, H, 350 (5.7-7, 5.7-8) Center Distance = 4.521"	1985 - 2002	C-3092 Single Roller Single Keyway	9-1145	9-3545X9	9-3145 Optional -5 -10	9-3645X3 9-3645X9 Optional -5 -10	9-3145A Optional -5 -10
	W/ BIG BLOCK CRANK SNOOT	ALL	---	---	---	---	9-3145B Optional -5 -10
4 V-8 SMALL BLOCK "ROCKET" Cam Raised 0.391" Center Distance = 4.912"	ALL	---	9-1146	9-3546TX9	9-3146 Optional -5 -10	9-3646TX3 9-3646TX9 Optional -5 -10 Optional Z	9-3146A Optional -5 -10 Optional Z
	W/ BIG BLOCK CRANK SNOOT	ALL	---	---	---	9-3646BTX3 Optional -5 -10 Optional Z	9-3146B Optional -5 -10 Optional Z
5 V-8 348, 409 Center Distance = 5.045"	1958 - 1965	---	9-1101	---	---	9-3601X3 Optional -5 -10	---

CHEVROLET

CHEVROLET		STREET SETS Heat-Treated, Billet Steel Crank			RACE TRUE® ROLLER SETS Induction Heat-Treated Sprockets, Hand-Matched w/ Premium TRUE® Roller Chain or Z-Chain (where available)		
		Heavy Duty X = 3 Keyway Double Roller	Street TRUE® 3 Keyway .250 TRUE® Roller Chain	Street Billet 9 Keyway .250 TRUE® Roller Chain	Race TRUE® 3 Keyway	Race Billet TRUE® X3 = 3 Keyway X9 = 9 Keyway Z = Z-Racing	Hex-A-Just® Adjustable (+/-) 6° Z = Z-Racing
ENGINE	YEAR						
6 V-8 SMALL BLOCK VORTEC (L31) 1/2" Pitch Single Roller Chain Center Distance = 4.521"	1996 - 2002	---	9-1157	---	9-3157 3 Keyway 9-3157X1 Single Keyway	---	---
7 LT-1 / LT-4 (VENTED OPTI-SPARK) 1/2" Pitch Single Roller Chain Center Distance = 4.521"	1995 - 1997	---	---	---	---	9-3651X3	---
8 V-8 BIG BLOCK 396, 400, 402, 427, 454 Non-factory Roller Cam Center Distance = 5.152"	1965 - 1998	C-3024X 3 Keyway	9-1110 9-1110T	9-3510TX9	9-3110 Optional -5 -10	9-3610TX3 Optional -5 -10 9-3610TX9 Optional -5 -10 Optional Z	9-3110A Optional -5 -10
	W/ BIG BLOCK CRANK SNOOT	ALL	---	---	---	---	9-3145B Optional -5 -10
9 V-8 BIG BLOCK "MERLIN" 454 Cam Raised 0.399" Center Distance = 5.551"	ALL	---	9-1147	9-3547TX9	9-3147 Optional -5	9-3647TX3 9-3647TX9 Optional -5	9-3147A Optional -5
10 V-8 BIG BLOCK GEN VI Factory Roller Cam Center Distance = 5.152" * Not for use with crankshaft sensor ring	ALL	---	---	---	---	9-3649X3 Single Roller	9-3149A Single Roller Optional -5

Z-Racing

Z-Series Racing Chains take your timing set to the pinnacle of durability. It is the #1 choice of top professional teams in spring, circle, track, drag, and off road racing.

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 - offering 33% more overall strength than our current premium chain.

The "Z Racing" series is the choice for those extreme custom engine builds that demand no compromise.

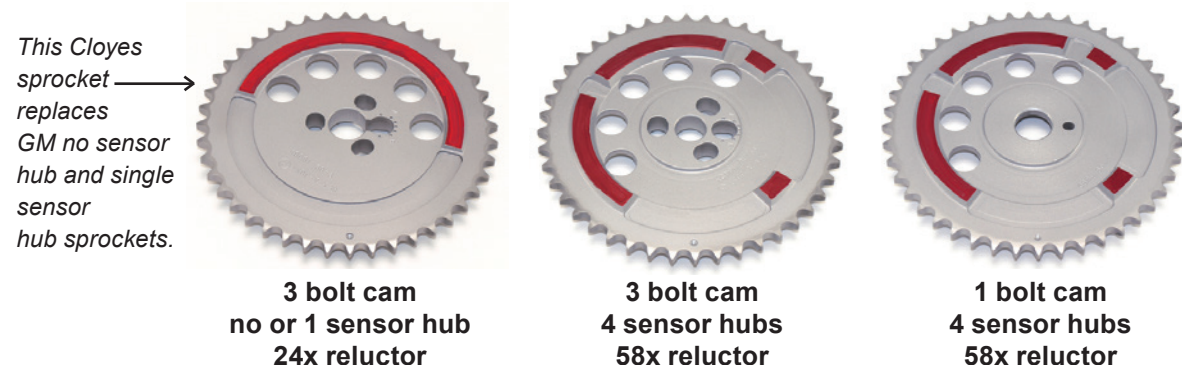
For All-Out racing, Cloyes offers its single roller "Z-Racing" series for GM LS applications featuring the race-proven Cloyes "Z" chain.

"Z-RACING" LS 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.)

You can identify a Cloyes Z-Racing set by the "Z" suffix attached to the part #.
Ex. 9-3xxxZ

How to Identify your LS Engine Management System



3 bolt cam
no or 1 sensor hub
24x reluctor

3 bolt cam
4 sensor hubs
58x reluctor

1 bolt cam
4 sensor hubs
58x reluctor

TRUE® Roller Sets for GM - LS Engines				
APPLICATION	HEX-A-JUST® TRUE® ROLLER	RACE BILLET TRUE® ROLLER	CHAIN ONLY	
Standard Center Distance Center Distance = 4.890"		3 Keyway	9 Keyway	
LS1 / LS2 / LS6 1997-2005 5.7, 6.0 (three bolt cam / no or one sensor hub) - this also includes 2006 Pontiac GTO				
Single Roller	9-3158A	9-3658TX3	9-3658TX9	9-304
Single Roller "Z-Racing"	9-3158AZ	9-3658TX3Z	9-3658TX9Z	9-303
Double Roller	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	9-3672TX9X	9-303
LS2/LS3 2007-2009 6.0, 6.2 (single bolt cam / four sensor hub) - these sets also include the chain damper				
Single 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
Single Roller "Z-Racing"	9-3167AZ	9-3667TX3Z	---	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)				
Single Roller "Z-Racing"	9-3158AZR	9-3658TX3ZR	9-3658TX9ZR	9-302
Double Roller (no bearing)	9-3159AR	9-3659X3R	---	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				
Replacement Damper Part # 9-5491				Damper included on single bolt sets as noted above, but can be ordered as option for all your LS applications.
VVT TENSIONER ELIMINATION KIT FOR LS Part # 9-3673TE				For the Racer that wants to tune for optimum performance, this kit eliminates the common problem area - tensioner failure.

CHEVROLET

FORD

FORD		STREET SETS Heat-Treated, Billet Steel Crank			RACE TRUE® ROLLER SETS Induction Heat-Treated Sprockets, Hand-Matched	
		Heavy Duty 3 Keyway Double Roller	Street TRUE® 3 Keyway	Street Billet 9 Keyway	Race TRUE® 3 Keyway	Race Billet TRUE® X3 = 3 Keyway X9 = 9 Keyway Z = Z-Racing
ENGINE	YEAR					
V-8 SMALL BLOCK 221, 255, 260, 289 Std, 302 H/O, 351 Std, 351W H/O (to 03/21/84) Factory 1 pc. fuel pump eccentric Center Distance = 4.804"	1962 - 1984	C-3054X	9-1135	9-3535X9	9-3135 Optional -5 -10	9-3635X3 9-3635X9 Optional -5 -10 Optional Z
V-8 SMALL BLOCK 302 Std, 302 (5.0) H/O (from 03/21/84), 351W Std Factory 2 pc. fuel pump eccentric Center Distance = 4.804"	1972 - 2001	C-3057X	9-1138	---	9-3138 Optional -5 -10	---
V-8 351C, 351M, 400 Center Distance = 5.044"	1970 - 1982	---	---	9-3521X9	---	9-3621X9 Optional -5 -10
V-8 FE 352, 360, 390, 410, 427, 428 Center Distance = 5.044"	1963 - 1973	C-3029X	---	9-3508X9	---	9-3608X9 Optional -5 -10
V-8 BIG BLOCK 429, 460 Factory set top dead center Center Distance = 6.078"	1968 - 1971	C-3079X	---	9-3522X9	---	9-3622X9 Optional -5 -10
V-8 BIG BLOCK 460 Factory set top dead center Center Distance = 6.078"	1988 - 1992	C-3079X	---	9-3522X9	---	9-3622X9 Optional -5 -10

CAM BUTTONS		THRUST WASHERS AND BEARINGS	
 <p>Cam Button is a must for Aftermarket Roller Cams</p>			
CAM BUTTONS		STEEL THRUST WASHER	
SB/BB Chevrolet .925 (59/64") long .030" thick Used with old style 3 spoke covers	9-200	SB Chevrolet .030" thick	9-201
SB/BB Chevrolet .640 (41/64") long Used with newer style covers	9-202	BB Chevrolet .030" thick	9-203
<p>Cam Buttons, Thrust Washers and Thrust Bearings prevent the cam from walking and provide antifriction surface between block and cam sprocket.</p>		BRONZE THRUST WASHER	
		SB/BB Chevrolet BB Chrysler .150" thick	9-220B
<p>REPLACEMENT ADJUSTING TOOL for Hex-A-Just®</p> 		CAPTURED THRUST BEARINGS	
<p>Used in all SB/BB Chevrolet & BB Chrysler Hex-A-Just® Sets Part # P9005</p>		SB/BB Chevrolet BB Chrysler .150" thick	9-220
		Cloyes LS Application Only	9-232
<p>FOR REPLACEMENT QUICK BUTTON PARTS, REFER TO PAGE 4</p>			

REPLACEMENT CHAIN GUIDE				
		REPLACEMENT CHAIN INFO		
SET BASE #	MAKE	CHAIN #	STYLE	LINKS
HEAVY DUTY TIMING SETS				
3023	Chevrolet	C163	Double Roller	58
3024	Chevrolet	C168	Double Roller	66
3028	Chrysler	C160	Double Roller	68
3029	Ford	C169	Double Roller	64
3043	Pontiac	C165	Double Roller	60
3044	Chrysler	C168	Double Roller	66
3045	Chrysler	C168	Double Roller	66
3054	Ford	C163	Double Roller	58
3055	Chevrolet	9-4149	Single Roller	46
3057	Ford	C163	Double Roller	58
3079	Ford	C168	Double Roller	66
3092	Chevrolet	9-4149	Single Roller	46
STREET TRUE® / STREET BILLET TRUE®				
1100/3500	Chevrolet	9-145	Double Roller	58
1101	Chevrolet	9-4160	Double Roller	48
3503	Chrysler	9-147	Double Roller	68
3508	Ford	9-149	Double Roller	64
1110/3510	Chevrolet	9-146	Double Roller	66
3512	Pontiac	9-148	Double Roller	60
3513	Oldsmobile	9-149	Double Roller	64
3521	Ford	9-149	Double Roller	64
3522	Ford	9-146	Double Roller	66
3525	Chrysler	9-146	Double Roller	66
1132	Buick	9-143	Double Roller	54
1134	Buick	9-143	Double Roller	54
1135/3535	Ford	9-145	Double Roller	58
1138	Ford	9-145	Double Roller	58
1139/3539	Cadillac	9-4160	Double Roller	48
1145/3545	Chevrolet	9-145	Double Roller	58
1146/3546	Chevrolet	9-148	Double Roller	60
1147/3547	Chevrolet	9-147	Double Roller	68
1157	Chevrolet	9-4149	Single Roller	46
RACE TRUE® / RACE BILLET TRUE® / HEX-A-JUST				
3100/3600	Chevrolet	9-130	Double Roller	58
3100/3600 (Z)	Chevrolet	9-130Z	Double Roller	58
3601	Chevrolet	9-133	Double Roller	64
3603	Chrysler	9-135	Double Roller	68
3608	Ford	9-133	Double Roller	64
3110/3610	Chevrolet	9-134	Double Roller	66
3110/3610 (Z)	Chevrolet	9-134Z	Double Roller	66
3612	Pontiac	9-131	Double Roller	60
3612 (Z)	Pontiac	9-131Z	Double Roller	60
3613	Oldsmobile	9-133	Double Roller	64
3118/3618	AMC	9-132	Double Roller	62
3621	Ford	9-133	Double Roller	64
3622	Ford	9-134	Double Roller	66
3625	Chrysler	9-134	Double Roller	66
3127	AMC	9-133	Double Roller	64
3135/3635	Ford	9-130	Double Roller	58
3135/3635 (Z)	Ford	9-130Z	Double Roller	58
3138	Ford	9-130	Double Roller	58
3639	Cadillac	9-190	Single Roller	48
3145/3645	Chevrolet	9-130	Double Roller	58
3146/3646	Chevrolet	9-131	Double Roller	60
3146/3646 (Z)	Chevrolet	9-131Z	Double Roller	60
3147/3647	Chevrolet	9-135	Double Roller	68
3149/3649	Chevrolet	9-192	Single Roller	50
3651	Chevrolet	9-193	Single Roller	46
3157	Chevrolet	9-193	Single Roller	46
3158/3658	Chevrolet	9-304	Single Roller	60
3158/3658 (Z)	Chevrolet	9-303	Single Roller	60
3158/3658 (Z)	Chevrolet	9-302	Single Roller	60
3159/3659	Chevrolet	9-131	Double Roller	60
3159/3659 (R)	Chevrolet	9-132	Double Roller	62
3167/3667	Chevrolet	9-304	Single Roller	60
3167/3667 (Z)	Chevrolet	9-303	Single Roller	60
3167/3667 (Z)	Chevrolet	9-302	Single Roller	60
3172/3672	Chevrolet	9-304	Single Roller	60
3172/3672 (Z)	Chevrolet	9-303	Single Roller	60
3172/3672 (Z)	Chevrolet	9-302	Single Roller	60
3673	Chevrolet	9-304	Single Roller	60
3673 (Z)	Chevrolet	9-303	Single Roller	60
3673 (Z)	Chevrolet	9-302	Single Roller	60

"15 years ago I began using your timing chain systems, and have been pleased with no timing component issues. This includes my 460 Ford based 509 cube Naturally Aspirated truck pull engine that is regularly abused leaving the line at 9000 and reaching as high as 10,000 rpm for 15+ seconds at a time in the Central Ohio Truck Pull Circuit. This Cloyes Premium "Z" chain billet timing set is responsible for opening the valves at over 1050 pounds of spring pressure, and driving an in pan oil pump, as well as provides infinite adjustment to find that perfect cam timing. Your customer service for these years have always been top notch. After abusing your products for many many passes you graciously measured the stretch of the chain and reported back to me that it had almost no stretch (0.004")... Under these conditions with no issues at all... I'm SOLD on your product."



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Thank You and God Bless,

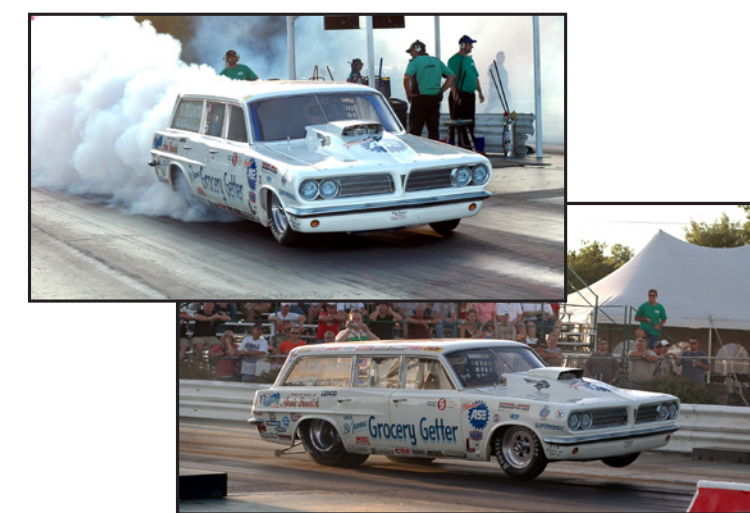
Brandon Kinzer
"FORGIVEN" pulling team



"We have been using Cloyes 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

"Producing over 1500 reliable HP with a traditional Pontiac engine is a challenge. I have been utilizing the Cloyes TRUE® Roller Timing sets on these engines for 12 years without a single timing system failure. This is with open valve spring pressures in excess of 1000 PSI and engine speeds in excess of 8000 RPM. In a match race environment, consistent performance and reliability are paramount. We have never had a cam timing related issue with the Cloyes chain drive."



Michael Garblik
Grocery Getter 1963 Pontiac Tempest Drag Car

Learn more about Replacement Engine Parts we have.