

THE GOAL:

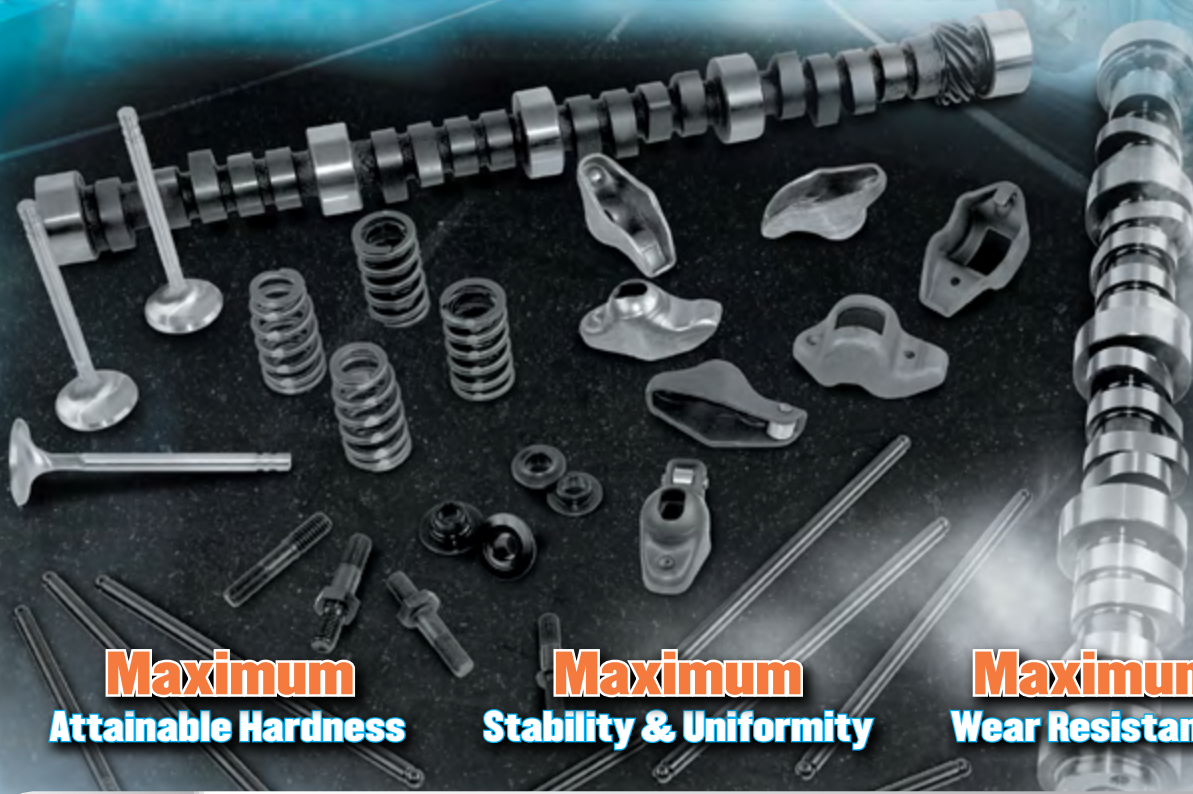
**BIGGER, BETTER  
STRONGER, FASTER**

THE SOLUTION:

**ELGIN PRO  
STOCK**

**BLACK ICE**

PERFORMANCE THROUGH CRYOGENICS



**Maximum**  
Attainable Hardness

**Maximum**  
Stability & Uniformity

**Maximum**  
Wear Resistance

**MAXIMUM PERFORMANCE & DURABILITY**

[www.elginind.com](http://www.elginind.com)



PERFORMANCE THROUGH DRYOGENICS

# COLD, HARD PERFORMANCE

Elgin Industries is the first major manufacturer to integrate advanced cryogenic technology into its production operations.

Elgin engineers have found that a precisely controlled combination of super-cryogenic and tempering treatments can significantly increase component stability and wear resistance.

From this discovery came Elgin's exclusive new line of PRO STOCK BLACK ICE engine components.

Elgin's proprietary BLACK ICE treatment delivers several track-proven advantages:

- Maximum attainable hardness from heat-treated base materials
- Maximum material and geometric stability and uniformity
- Maximum wear resistance
- Elimination of material stresses and mass changes



## CAMSHAFTS – SMALL BLOCK CHEVY (EXC. WHERE NOTED)

Elgin Part #	Type	Adv. Dur. Int./Exh.	Dur. @ .050 Int./Exh.	Lobe Center Int./Exh.	Valve Lift Int./Exh.
ICE200903	Hyd.	290°/290°	223°/223°	110°/118°	.447/.447
ICE200920	Hyd.	292°/292°	230°/230°	107°/111°	.480/.480
ICE200922	Hyd.	288°/298°	214°/224°	107°/117°	.444/.466
ICE200923	Hyd.	278°/288°	204°/214°	107°/117°	.421/.444
ICE201015	Hyd.	290°/300°	224°/234°	107°/117°	.465/.488
ICE201024	Hyd.	310°/310°	244°/244°	107°/109°	.510/.510
ICE201065	Hyd.	284°/284°	218°/218°	105°/115°	.458/.458
ICE201067	Hyd.	300°/310°	234°/244°	107°/117°	.488/.510
ICE201090	Mech.	287°/295°	256°/264°	99°/111°	.537/.557
ICE201091	Mech.	287°/295°	256°/264°	99°/111°	.504/.504
ICE201138*	Hyd.	271°/281°	192°/203°	107°/117°	.399/.430
ICE201143*	Hyd.	304°/304°	246°/246°	106°/114°	.576/.576
ICE201173	Mech.	287°/295°	256°/264°	99°/111°	.537/.557
ICE201191**	Roller	273°/288°	198°/210°	108°/116°	.435/.462
ICE201218	Hyd.	304°/316°	238°/248°	109°/119°	.540/.540
ICE201243	Mech.	282°/286°	248°/251°	103°/109°	.531/.541
ICE201250***	Roller	289°/300°	225°/236°	107°/113°	.525/.525
ICE201251***	Roller	278°/287°	218°/227°	109°/115°	.523/.524
ICE201786	Hyd.	302°/302°	246°/246°	102°/110°	.500/.500
ICE201839***	Roller	286°/282°	220°/224°	108°/116°	.575/.575
ICE201840***	Roller	283°/286°	228°/230°	108°/116°	.585/.585

\* Big Block Chevy    \*\* GM 305, 350 Roller Cam    \*\*\* GM LS Engines



## **PUSH RODS – 1 KIT PER ENGINE**

Elgin Part #	Application	Length	Construction	Material	Tube	Guide Plate Use OK?
ICE300514	GM LS Engines	7.40"	Welded	C1010	5/16 x .065	Yes
ICE300537	GM Small Block	7.80"	Welded	C1010	5/16 x .075	Yes
ICE300538	GM Small Block	7.75"	Welded	C1010	5/16 x .075	Yes
ICE300577	GM Small Block	7.90"	Welded	C1010	5/16 x .075	Yes
ICE300937	GM Small Block	7.80"	1 Piece	4130	5/16 x .080	Yes
ICE300977	GM Small Block	7.90"	1 Piece	4130	5/16 x .080	Yes
ICE315740	GM LS Engines	7.40"	1 Piece	4130	5/16 x .106	Yes

## **ROCKER ARM KITS – 2 KITS PER ENGINE WITH BALLS & NUTS**

Elgin Part #	Application	Stud	Ratio	Slot
ICE410736	GM Small Block	3/8"	1.5	Stock with Guide Rails
ICE410737	GM Small Block	3/8"	1.5	Long with Guide Rails
ICE410738	GM Small Block	3/8"	1.6	Long with Guide Rails
ICE410756	Chrysler Small Block	5/16" Bolt	1.7	Stock
ICE410840	GM Small Block	3/8"	1.5	Long
ICE410840R	GM Small Block Roller Tip	3/8"	1.5	Long
ICE410840SP	GM Small Block	3/8"	1.6	Long
ICE410840SPR	GM Small Block Roller Tip	3/8"	1.6	Long
ICE410842	GM Small Block	3/8"	1.5	Stock
ICE410868	GM Big Block	7/16"	1.72	Long
ICE410888	Ford 302 Boss, 351C, 429	5/16" Bolt	1.65	Stock
ICE410889	GM Small Block 302 (Exc. Boss), 351W	5/16" Bolt	1.65	Stock
ICE411840	GM Small Block	7/16"	1.5	Long
ICE411840SP	GM Small Block	7/16"	1.6	Long

## **ROCKER ARM STUDS – 1 KIT PER ENGINE**

Elgin Part #	Application	Overall Length	Thread Sizes Bottom/Top	Shoulder Diameter
ICE100940	Ford	2.670	7/16-14 / 7/16-20	7/16
ICE100941	GM	2.560	7/16-14 / 7/16-20	7/16
ICE100950	GM	2.173	8 mm-1.25 / 3/8-24	3/8
ICE102920	GM	2.325	7/16-14 / 3/8-24	3/8



## VALVE SPRINGS – 2 KITS PER ENGINE

Elgin Part #	Application	O.D.	Nominal Load For Checking	Coil Bind
ICE600943X	GM Small Block	1.250	110# @ 1.700	1.16
ICE601943X	GM Small Block	1.250	125# @ 1.750	1.16
ICE609912X	Ford Small Block	1.460	115# @ 1.820	1.15
ICE609937	LS1	1.290	130# @ 1.800	1.12
ICE609939	GM/Ford Small Block	1.440	95# @ 1.703	1.08

## RETAINERS – 1 KIT PER ENGINE

Elgin Part #	O.D.	Step 1	Step 2	Lock Angle	Material
ICE103974	1.200	.800	.650	7°	Stamped 1008
ICE103975	1.200	.870	.690	7°	Machined 4140
ICE103977	1.405	1.045	.705	7°	Machined 4140
ICE103982	1.375	1.060	.675	7°	Machined 4140
ICE103990	1.030	.640	N/A	7°	Machined 4140

## VALVES – 1 KIT PER ENGINE

Elgin Part #	Type	Head Diameter	Stem Diameter	Install Height
ICE700005	Exhaust	1.600	.3415	Stock
ICE700006	Exhaust	1.600	.3415	+ .100
ICE700009	Intake	1.940	.3415	Stock
ICE700013	Intake	2.020	.3415	Stock
ICE700014	Intake	2.020	.3415	+ .100
ICE700034	Intake	1.940	.3415	Stock
ICE700035	Exhaust	1.500	.3415	Stock
ICE700045	Exhaust	1.600	.3415	Stock
ICE700046	Intake	2.020	.3415	Stock
ICE700074	Intake	2.020	8 mm	Stock
ICE700076	Exhaust	1.570	8 mm	Stock

**ELGIN**  
INDUSTRIES

### WORLD HEADQUARTERS

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