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# Ring & Pinion Application Guide

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### Richmond Gear

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Our complete line of Richmond Gear performance products ranges from high performance ring-and-pinion sets for serious street and racing applications to torque-hungry manual transmission, and components for on and off-road use. We also offer full ring and pinion installation kits and instructional videos. Engineered to perform faster and be more reliable, Richmond Gear products have been winners both at the Daytona 500 and U.S. Nationals for decades. Winners Run Richmond!



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**AMC Model 20** 

PART NO.	RATIO	NOTE
AM20354	3.54	
AM20373	3.73	
AM20410	4.1	
AM20456	4.56	
<b>INSTALLATION KITS</b>	Featuring Koyo® bearings.	
XL-1054-1		

**Chrysler/Dodge H198** 

PART NO.	RATIO	NOTE
49-0164-1	3.55	AWD Rear
49-0165-1	3.73	AWD Rear
<b>INSTALLATION KITS</b>	Featuring Timken® bearings.	
83-1097-1		

**Chrysler/Dodge H210** 

PART NO.	RATIO	NOTE
49-0161-1	3.23	Most 5.7L
49-0162-1	3.55	Most 5.7L
<b>INSTALLATION KITS</b>	Featuring Timken® bearings.	
83-1098-1		

**Chrysler/Dodge H215** 

PART NO.	RATIO	NOTE
49-0153-1	3.23	6.1L*
49-0154-1	3.55	6.1L*
<b>INSTALLATION KITS</b>	Featuring Timken® bearings.	
83-2000-1		

**Chrysler/Dodge H226** 

PART NO.	RATIO	NOTE
49-0197-1	3.55	6.1L & 6.4L*
<b>INSTALLATION KITS</b>	Featuring Timken® bearings.	
83-1086-1		
83-1086-C	Half Kit	

**Chrysler 8.25** 

PART NO.	RATIO	NOTE
CR825355	3.55	
CR825390	3.9	
CR825410	4.10	
CR825456	4.56	
<b>INSTALLATION KITS</b>	Featuring Koyo® bearings.	
XL-1070-1	Including Jeep up to 2014	

**Chrysler 8.25 & 8.375** 

PART NO.	RATIO	TEETH
49-0074-1	3.55	39-11
49-0076-1	3.91	43-11
69-0314-1*	4.10*	41-10
69-0316-1*	4.56*	41-9

Fits 2.73 ratio and numerically higher carrier.

\* Cross shaft pin 80-0278-1 recommended.

INSTALLATION KITS	Featuring Timken® bearings.
83-1070-1	Chrysler 8.25" ALL including Jeep up to 2014.

**Chrysler 8.75, 742** 

PART NO.	RATIO	TEETH
69-0375-1	3.91	43-11
69-0045-1	4.10	41-10
69-0046-1	4.30	43-10
69-0047-1	4.57	32-7
69-0048-1	4.86	34-7
69-0145-1	5.13	41-8

NOTE: All ring & pinions are 10 spline.

INSTALLATION KITS	Featuring Timken® bearings.
83-1037-1	
83-1037-B	Half Kit

**Chrysler 8.75, 489** 

PART NO.	RATIO	TEETH
69-0371-1	3.55	39-11
69-0058-1	3.91	43-11
69-0372-1*	3.91	43-11
69-0059-1	4.10	41-10
69-0060-1	4.30	43-10
69-0061-1	4.57	32-7
69-0370-1*	4.57	32-7
69-0062-1	4.86	34-7
69-0374-1*	4.86	34-7
69-0063-1	5.13	41-8

NOTE: All ring & pinions are 10 spline except where noted.

\*29 spline pinion - use with any 8.75" model 29 spline yoke.

INSTALLATION KITS	Featuring Timken® bearings.
83-1031-1	
83-1031-B	Half Kit

**Chrysler 9.25**  

PART NO.	RATIO	TEETH
CR925355	3.55	
CR925390	3.90	
CR925410	4.10	
CR925456	4.56	

INSTALLATION KITS	Featuring Koyo® bearings.
XL-1041-1	up to 2000
XL-1042-1	2001 to Current

## Chrysler 9.25

PART NO.	RATIO	TEETH
49-0078-1	3.55	39-11
49-0080-1	3.91	43-11
69-0220-1	4.10	41-10
69-0222-1	4.56	41-9
<b>INSTALLATION KITS</b> Featuring Timken® bearings.		
83-1041-1	Up to 2000	
83-1041-M	Up to 2000	
83-1041-B	Half Kit, up to 2000	
83-1042-1	2001 to Current Rear	
83-1042-M	2001 to Current Rear	
83-1042-B	2001 to Current Rear	
83-1047-1	2003 to Current, Front Axle	
83-1047-B	2003 to Current, Front Axle	

## Corvette Dana 36

PART NO.	RATIO	TEETH
49-0143-1*	3.54	46-13
49-0110-1*	3.75	45-12
*Fits 2.73 ratio and numerically lower carrier.		
<b>INSTALLATION KITS</b> Featuring Timken® bearings.		
83-1057-1		
83-1057-C	Half Kit	

## Corvette 1963-1979

PART NO.	RATIO	TEETH
49-0097-1	3.08	40-13
49-0139-1	3.36	37-11
49-0023-1	3.70	37-10
49-0031-1	3.90	39-10
When replacing a 2.41 to 3.70 with a Richmond Ring and Pinion, the carrier must be replaced with a carrier from a stock 4.10 or numerically higher.		
<b>INSTALLATION KITS</b> Featuring Timken® bearings.		
83-1024-1		
83-1024-B	Half Kit	



## Dana 44HD

PART NO.	RATIO	TEETH
49-0108-1	3.75	45-12

Fits 3.07 ratio and numerically higher carrier.

INSTALLATION KITS	Featuring Timken® bearings.
83-1074-1	
83-1074-B	Half Kit

## Dana 30

PART NO.	RATIO	TEETH	CARRIER
D30354	3.54	46-13	2
D30373	3.73	41-11	3
D30373TJ*	3.73	41-11	3
D30410	4.10	41-10	3
D30411TJ*	4.11	41-10	3
D30411FJK	4.11	41-10	3
D30456	4.56	41-9	3
D30456TJ*	4.56	41-9	3
D30456FJK**	4.56	41-9	3
D30488	4.88	39-8	3
D30488TJ*	4.88	39-8	3
D30488FJK**	4.88	39-8	3
D30513FJK**	5.13	41-8	3

NOTES: "2" fits cases 3.54 and numerically lower carrier; "3" fits 3.73 and numerically higher carrier.

\* TJ Style Dana 30 Only

\*\* JK Style Dana 30 Only

INSTALLATION KITS	Featuring Koyo® bearings.
XL-1056-1	Dana 30 Front, TJ, 1997-2006
XL-1055-1	Dana 30 Front, JK, 2007-2014
XL-1090-1	Dana 30 front, Cherokee ZJ, 1992-1996
XL-1058-1	Dana 30 Front, 1966-1990
XL-1096-1	Dana 30 Rear, 1966-1990





## Dana 35 **EXCEL**<sup>TM</sup>

PART NO.	RATIO	TEETH
D35355	3.55	39-11
D35373	3.73	41-11
D35410	4.10	41-10
D35456	4.56	41-9
D35488	4.88	39-8

NOTES: fits cases 3.54 and numerically higher.

INSTALLATION KITS	Featuring Koyo® bearings.
XL-1060-1	Dana 35, 1980-2006 Jeep (Rear), Dodge Dakota (Front)
XL-1061-1	Dana 35, 1999 to Current, WJ Grand Cherokee (Rear)
XL-1062-1	Dana 35, Ford (All)

## Dana 44 **EXCEL**<sup>TM</sup>

PART NO.	RATIO	TEETH	CARRIER
D44354	3.54	39-11	2
D44373	3.73	41-11	2
D44409	4.10	41-10	3
D44411JK**	4.10	41-10	2
D44456	4.56	41-9	3
D44456RUB*	4.56	41-9	2
D44456JK**	4.56	41-9	2
D44456FJK***	4.56	41-9	3
D44489	4.88	39-8	3
D44488RUB*	4.88	39-8	2
D44488JK**	4.88	39-8	2
D44488FJK***	4.88	39-8	2
D44513	5.13	41-8	3
D44513RUB*	5.13	41-8	2
D44513JK**	5.13	41-8	2
D44513FJK***	5.13	41-8	2
D44538	5.38	43-8	3
D44538JK**	5.38	43-8	2
D44538FJK***	5.38	43-8	2

NOTE: 2 fits 3.07-3.73 carrier; 3 fits 3.92 and numerically higher carrier.

\* Dana 44 TJ Rubicon, 2003-2006, (Front & Rear)

\*\* Dana 44 JK, 2007-2014, (Rear)

\*\*\* Dana 44 JK Rubicon, 2007-2014, (Front)

INSTALLATION KITS	Featuring Koyo® bearings.
XL-1074-1	Dana Super 44, 1996to Current, WJ and ZJ
XL-1033-1	Dana 44, 1968-2002, Front & Rear, Except Disconnect and Super 44
XL-1073-1	Dana 44 IFS, 1993-1996, Dodge, Ford Disconnect
XL-1089-1	Dana 44, 2003-2006, Rubicon, Front & Rear
XL-1075-1	Dana 44, 2007-2014, JK Rubicon, Front
XL-1076-1	Dana 44, 2007-2014, JK Rubicon, Rear
XL-1092-1	Dana 44, 2007-2014, JK NON-Rubicon, Rear

## Dana 44 Reverse

PART NO.	RATIO	TEETH	CARRIER
D44354R	3.54R	39-11	2
D44373R	3.73R	41-11	2
D44409R	4.10R	41-10	3
D44456R	4.56R	41-9	3
D44489R	4.88R	39-8	3
D44513R	5.13R	41-8	3
D44538R	5.38R	43-8	3

Pinion stem enters the case above the centerline of the axles.

NOTES: 2 fits 3.07-3.73 carrier; 3 fits 3.92 and numerically higher carrier.

INSTALLATION KITS	Featuring Koyo® bearings.
XL-1033-1	Dana 44, 1968-2002 Front, except Disconnect
XL-1073-1	Dana 44, 1993-1996 Dodge, Ford - Disconnect

## Dana 60 Richmond Pro Gears

PART NO.	RATIO	TEETH
79-0011-1*	4.10	41-10
79-0077-1	4.56	41-9
79-0068-1	4.88	39-8
79-0013-1	5.38	43-8
79-0041-1	6.17	37-6

\* Fits 4 series carrier only

\*Pro Gears are specifically designed for drag race only.

## Dana 60

PART NO.	RATIO	TEETH	CARRIER
49-0129-1	3.54	39-11	2
49-0130-1	3.73	41-11	2
69-0052-1	4.10	41-10	3
69-0053-1	4.56	41-9	3
69-0054-1	4.88	39-8	3
69-0057-1	5.13	41-8	3

2- Fits 3.07 - 4.10 carrier.

3- Fits 4.56 and numerically higher carrier.

Note: Machined for shims; not crush sleeve type.

INSTALLATION KITS	Featuring Timken® bearings.
83-1034-1	Dana 60, 1997 & Earlier
83-1035-1	Dana 60, 1998 to Current
83-1036-1	Dana 60, 2000 to Current, F350/450/550, Front

## Dana 60

PART NO.	RATIO
D60354	3.54
D60373	3.73
D60410	4.10
D60456	4.56
D60488	4.88

INSTALLATION KITS	Featuring Koyo® bearings.
XL-1034-1	1997 & Earlier
XL-1035-1	1998 to Current
XL-1036-1	Dana 60, 2000 to Current, F350/450/550, Front

## Dana 60 Reverse

PART NO.	RATIO	TEETH	CARRIER
D60410R	4.10R	41-10	3
D60456R	4.56R	41-9	4
D60456RT	456RT	41-9	3
D60488R	4.88R	39-8	4
D60488RT	4.88RT	39-8	3
D60513RT	5.13RT	41-8	3

NOTE: Pinion stem enters the case above the centerline of the axles.

NOTE: 3 = 4.10 & Down, 4 = 4.56 to Current

INSTALLATION KITS	Featuring Koyo® bearings.
83-1034-1	Dana 60, 1997 & Earlier
83-1035-1	Dana 60, 1998 to Current - Except 2000 to Current F350/450/550, Front
83-1036-1	Dana 60, 2000 to Current, F350/450/550, Front

## Dana 70

PART NO.	RATIO	TEETH
D70354	3.54	39-11
D70373	3.73	41-11
D70410	4.10	41-10
D70456	4.56	41-9
D70488	4.88	39-8
D70513	5.13	41-8

INSTALLATION KITS	Featuring Koyo® bearings.
XL-1078-1	Dana 70 with 382S/387A Carrier Bearings
XL-1080-1	Dana 70 "HD" with 453X/469 Carrier Bearings
XL-1093-1	Dana 70 "U" with HM803110/HM803149 Inner Pinion Bearing

## Dana 80

PART NO.	RATIO	TEETH	CARRIER
D80410	4.10	41-10	4
D80488	4.88	39-8	4
D80513	5.13	41-8	4

INSTALLATION KITS	Featuring Koyo® bearings.
XL-1068-1	Dana 80, 1997 & Down
XL-1069-1	Dana 80, 1998 to Current

## Ford 7.5

PART NO.	RATIO	TEETH
49-0043-1	3.73	41-11
69-0318-1*	4.10	41-10
69-0320-1*	4.56	41-9

\* Special Cross Shaft Pin 80-0271-1 required.

This pin will not fit Auburn carrier.

INSTALLATION KITS	Featuring Timken® bearings.
83-1045-1	
83-1045-B	Half Kit

**Ford 7.5** **EXCEL**<sup>™</sup> 

PART NO.	RATIO
F75373	3.73
F75410	4.10
F75456	4.56
<b>INSTALLATION KITS</b>	Featuring Koyo® bearings.
XL-1045-1	

**Ford 8** 

PART NO.	RATIO	TEETH
49-0100-1	3	39-13
49-0101-1	3.55	39-11
49-0111-1	3.8	38-10
69-0064-1	4.11	37-9
69-0065-1	4.62	37-8
<b>INSTALLATION KITS</b>	Featuring Timken® bearings.	
83-1014-1	With Large Hub Carrier Bearings LM102910/LM102949	
83-1015-1	With Small hub Carrier Bearings LM501310/LM501349	
83-1015-B	Half Kit, ALL	

**EXCEL Ford 8** **EXCEL**<sup>™</sup> 

PART NO.	RATIO
F8355	3.55
F8380	3.80
<b>INSTALLATION KITS</b>	Featuring Koyo® bearings.
Part No.	Notes
XL-1014-1	Large Hub Bearings - LM102910/949
XL-1015-1	Small Hub Bearings - LM501310/349

**Ford 8.8**  **Richmond Pro Gears**

PART NO.	RATIO	TEETH
79-0127-L	3.75	45-12
79-0128-L	4.11	37-9
79-0131-L	4.29	30-7
<b>INSTALLATION KITS</b>	Featuring Timken® bearings.	
83-1043-1	Up to 2009	
83-1043-M	Up to 2009	
83-1043-B	Half Kit – Up to 2009	
83-1082-1	2010 to Current	
83-1082-M	2010 to Current	
83-1082-B	2010 to Current	
83-1094-1	1997 to Current, IFS	

**Ford 8.8** 

PART NO.	RATIO	TEETH
49-0103-1	3.55	39-11
49-0104-1	3.73	41-11
69-0310-1	4.1	41-10
69-0376-1	4.33	39-9
69-0312-1*	4.56	41-9
69-0382-1*	4.88	39-8

\* Special Cross Pin required:

Use 80-0273-1 All (except below)

Use 80-0279-1 87+ trucks & 31 spline axle cars

**Ford 8.8** **EXCEL** from **RICHMOND**

PART NO.	RATIO
F88355	3.55
F88373	3.73
F88389	3.89
F88410	4.10
F88456	4.56
INSTALLATION KITS	Featuring Koyo® bearings.
XL-1094-1	IFS 97 to Current
XL-1043-1	Up to 2009
XL-1082-1	2010 to Current

**Ford 9** **Richmond Pro Gear**

PART NO.	RATIO	TEETH
79-0001-1**	3.40	34-10
79-0002-1**	3.50	35-10
79-0003-1**	3.60	36-10
79-0004-1**	3.70	37-10
79-0043-1**	3.89	35-9
79-0045-1**	4.11	37-9
79-0079-1**	4.29	30-7
79-0080-1**	4.57	32-7
79-0070-1**	4.71	33-7
79-0060-1**	4.86	34-7
79-0066-1^	4.86	34-7
79-0078-1^	5.00	30-6
79-0017-1^	5.14	36-7
79-0069-1^	5.29	37-7
79-0005-1^	5.43	38-7
79-0007-1^	5.67	34-6
79-0019-1^	5.83	35-6
79-0021-1^	6.00	30-5
79-0023-1^	6.20	31-5
79-0054-1^	6.50	39-6

\*\*Special pinion support - 35 SPL

^28 Spline





# Ford 9



PART NO.	RATIO	TEETH
49-0038-1	3.00	39-13
69-0284-1	3.25	39-12
49-0027-1	3.50	35-10
69-0195-1	3.55	39-11
69-0361-1	3.70	37-10
69-0442-L*	3.80	38-10
69-0286-1	3.82	42-11
69-0177-1	3.89	35-9
69-0179-1	4.11	37-9
69-0367-1	4.22	38-9
69-0161-1	4.33	39-9
69-0368-1	4.44	40-9
69-0369-1	4.50	36-8
69-0185-1	4.56	41-9
69-0379-1	4.63	37-8
69-0067-1	4.86	34-7
69-0360-1	5.00	30-6
69-0068-1	5.14	36-7
69-0270-1	5.29	37-7
69-0069-1	5.43	38-7
69-0070-1	5.67	34-6
69-0288-1	5.83	35-6
69-0199-1	6.00	30-5
69-0290-1	6.20	31-5
69-0276-1	6.33	38-6
69-0197-1	6.50	39-6
69-0441-L*	6.60	33-5
69-0417-L*	6.80	34-5
69-0418-L*	7.00	35-5
69-0419-L*	7.20	36-5
69-0420-L*	7.40	37-5

\*\* L = Light Weight

INSTALLATION KITS	Featuring Timken® bearings.
Part No.	Carrier Bearing
83-1011-1	With 102949/910 Carrier Bearings & M88048/010 Pinion Bearings with Crush Sleeve
83-1013-1	With LM603011/LM603049 Carrier Bearings & HM88010/HM88048 Pinion Bearings with Crush Sleeve
83-1003-1	With LM603011/LM603049 Carrier Bearings & HM89443 Pinion Bearing (Daytona) with Solid Spacer
83-1005-1	With LM104911/LM104949 Carrier Bearings & HM89443 Pinion Bearing (Daytona) with Solid Spacer
83-1007-1	With LM102910/LM102949 Carrier Bearings & 89443 Pinion Bearings with Solid Spacer
83-1009-1	With LM501314/LM501349 Carrier Bearings & M88048/010 Pinion Bearings with Crush Sleeve
83-1011-B	Half Kit

## Ford 9

PART NO.	RATIO
F9350	3.50
F9355	3.55
F9370	3.70
F9389	3.89
F9411	4.11
F9433	4.33
F9456	4.56
F9471	4.71
F9486	4.86
F9500	5.00
F9514	5.14
F9529	5.29
F9543	5.43
F9567	5.67
F9583	5.83
F9600	6.00
F9620	6.20
F9633	6.33
F9650	6.50

INSTALLATION KITS	Featuring Koyo® bearings.
XL-1003-1	3.062 W/ LM603049/LM603011 Diff Brgs. & Daytona Support (HM89443 Pin Brg)
XL-1005-1	3.250 W/ LM104911 / LM104949 diff brgs. And Daytona Support (HM89443 Pin Brg)
XL-1007-1	31 Spline (LM102949 / LM102910) Carr Brg & Std Pin Support (M88048/10)
XL-1009-1	28 Spline Trac Lock
XL-1011-1	28 OPEN ( LM501349/501314 Carr Brg.)
XL-1013-1	31 3.062 w/ LM603011/ LM603049 diff brgs. And non-daytona support

## Ford 9.5 Richmond Pro Gear

PART NO.	RATIO	TEETH
79-0097-1**	4.11	37-9
79-0098-1**	4.29	30-7
79-0101-1**	4.57	32-7
79-0108-L***	5.00	30-6
79-0110-L***	5.11	46-9
79-0112-L***	5.17	31-6
79-0111-L***	5.20	26-5

\*Pro Gears are specifically designed for drag race only.

\*\*35 spline pinion stem.

\*\*\* 28 spline pinion stem.

NOTE: Housing must be modified to allow larger ring gear to fit.

**Ford 9.75** 

PART NO.	RATIO	TEETH
49-0152-1	3.73	41-11
69-0443-1	4.10	41-10
69-0445-1	4.56	41-9
<b>INSTALLATION KITS</b> Featuring Timken® bearings.		
Part No.	Notes	
83-1050-1	Mid-1999 to 2010	
83-1050-B	Half Kit	
83-1049-1	1997 to Mid-1999	
83-1049-B	Half Kit	
83-2012-1	2011 to Current	

**Ford 9.75** **EXCEL**<sup>™</sup> 

PART NO.	RATIO
F975355	3.55
F975373	3.73
F975410	4.10
F975430	4.30
F975456	4.56
F975489	4.89
<b>INSTALLATION KITS</b> Featuring Koyo® bearings.	
XL-1049-1	1997-1999.5
XL-1050-1	Mid-1999 to 2010
XL-2012-1	2011 to Current

**Ford 10.25** **EXCEL**<sup>™</sup> 

PART NO.	RATIO	NOTES
F10355	3.55	1983-1992
F10410	4.10	1983-1992
F10456	4.56	1983-1992
F10355L	3.55	1993 to Current
F10373L	3.73	1993 to Current
F10410L	4.10	1993 to Current
F10456L	4.56	1993 to Current
F10489L	4.89	1993 to Current
F10513L	5.13	1993 to Current
F10538L	5.38	1993 to Current
<b>INSTALLATION KITS</b> Featuring Koyo® bearings.		
XL-1059-1		

**GM Late Camaro 7.6" 2010 to Current** 

PART NO.	RATIO	NOTES
49-0192-1	3.55	V6
<b>INSTALLATION KITS</b> Featuring Timken® bearings.		
83-1079-1		
83-1079-B	Half Kit	

**GM Late Camaro 8.6" 2010 to Current** 

PART NO.	RATIO	NOTES
49-0187-1	3.73	V8
89-0003-1	4.11	V8
<b>INSTALLATION KITS</b> Featuring Timken® bearings.		
83-1077-1		
83-1077-B	Half Kit	

## GM Pontiac G8

PART NO.	RATIO	TEETH
49-0201-1	3.55	39-11
<b>INSTALLATION KITS</b> Featuring Timken® bearings.		
83-1087-1		
83-1087-C	Half Kit	

## GM Pontiac Late GTO

PART NO.	RATIO	TEETH
69-0461-1	3.90	39-10
<b>INSTALLATION KITS</b> Featuring Timken® bearings.		
83-1099-1		
83-1099-B	Half Kit	

## GM 7.5 & 7.625

PART NO.	RATIO	NOTES
GM75323	3.23	GM 10 7.5 OEM
GM75342OE	3.42	GM 10 7.5 3 OEM
GM75342TK	3.42	GM 10 7.5 2 Thick
GM75355	3.55	GM 10 7.5
GM75355TK	3.55	GM 10 7.5 2 Thick
GM75373OE	3.73	GM 10 7.5 3 OEM
GM75373TK	3.73	GM 10 7.5 2 Thick
GM75390	3.90	GM 10 7.5 2
GM75390TK	3.90	GM 10 7.5 2 Thick
GM75410OE	4.10	GM 10 7.5 3 OEM
GM75410TK	4.10	GM 10 7.5 2 Thick
GM75456	4.56	GM 10 7.5 3 OEM
GM75456TK	4.56	GM 10 7.5 2 Thick
<b>INSTALLATION KITS</b> Featuring Koyo® bearings.		
XL-1016-1	1977-1981	
XL-1044-1	1982-1998	
XL-1083-1	1999 to Current	



**GM 7.5 & 7.625** 

PART NO.	RATIO	TEETH	CARRIER
49-0048-1	2.73	41-15	2
49-0001-1	3.08	40-13	2
49-0044-1	3.23	42-13	3
49-0003-1	3.23	42-13	2
49-0045-1	3.42	41-12	3
49-0005-1	3.42	41-12	2
49-0046-1	3.73	41-11	3
49-0007-1	3.73	41-11	2
49-0284-1	3.90	39-10	3
49-0285-1	3.90	39-10	2
69-0322-1	4.10	41-10	3
49-0009-1	4.10	41-10	2
69-0324-1	4.56	41-9	3*
69-0326-1	4.56	41-9	2*

\* Special Cross Pin 80-0270-1 required.

2- Fits 3.08 and numerically lower carrier.

3- Fits 3.23 and numerically higher carrier.

INSTALLATION KITS	Featuring Timken® bearings.
83-1016-1	1977-81
83-1016-M	1977-81
83-1044-1	1982-98
83-1044-M	1982-98
83-1044-B	Half Kit
83-1083-1	1999 to Current
83-1083-B	1999 to Current

**GM 8.2 Drop Out (Early)** 

PART NO.	RATIO	TEETH
49-0052-1*	3.55	39-11
49-0099-1*	3.73	41-11

\* Fits 3.08 to 3.70 carrier.

INSTALLATION KITS	Featuring Timken® bearings.
83-1052-1	
83-1052-B	Half Kit

**GM 8.2" 10 Bolt '55-64**  

PART NO.	RATIO	NOTES
GM82373E	3.73	Early 55-64

INSTALLATION KITS	Featuring Koyo® bearings.
XL-1052-1	

**GM 8.2 (1965-72)** 

PART NO.	RATIO	TEETH
49-0011-1	3.08	37-12
49-0013-1	3.36	37-11
49-0015-1	3.55	39-11
49-0112-1	3.73	41-11
69-0159-1	4.11	37-9
69-0028-1	4.56	41-9

Fits 3.08+ carrier.

INSTALLATION KITS	Featuring Timken® bearings.
83-1022-1	
83-1022-M	
83-1022-B	Half Kit



**GM 10 8.2** **EXCEL** 

PART NO.	RATIO	NOTES
GM82C373	3.73	
GM82411	4.11	
<b>INSTALLATION KITS</b>	Featuring Koyo® bearings.	
XL-1022-1	After Market	

**GM 8.2 B or P Axle** 

PART NO.	RATIO	TEETH
49-0082-1	3.55	39-11
49-0084-1	3.90	39-10
Use higher series carrier when replacing 2.56, 2.79, 2.93, 3.08 and 3.23 ratios. Use 3.36+ carrier - 3/8" holes.		
<b>INSTALLATION KITS</b>	Featuring Timken® bearings.	
83-1040-1		
83-1040-B	Half Kit	

**GM 8.25" IFS** **EXCEL** 

PART NO.	RATIO	NOTES
GM825373	3.73	
GM825410	4.1	
GM825456	4.56	
<b>INSTALLATION KITS</b>	Featuring Koyo® bearings.	
XL-1020-1		
XL-1023-1	IFS '98 to Current	

**GM 8.5 & 8.625** 

PART NO.	RATIO	TEETH
49-0017-1	3.08	40-13
49-0019-1	3.23	42-13
49-0278-1	3.42	41-12
49-0041-1	3.73	41-11
49-0034-1	3.90	39-10
69-0165-1	4.10	41-10
69-0167-1	4.56	41-9
69-0169-1	4.88	39-8
69-0171-1	5.13	41-8
69-0173-1*	5.38	43-8
69-0175-1*	5.57	39-7

\* Cross Pin 80-0272-1 required.

When replacing a stock 2.56 and numerically lower, the carrier must be replaced with a carrier of 2.73 or higher.

<b>INSTALLATION KITS</b>	Featuring Timken® bearings.	
83-1020-1	Truck, Up to 1988, Front	
83-1020-B	Truck, Up to 1988, Front	
83-1021-1	Car & Truck, Up to 1998, Rear	
83-1021-B	Car & Truck, Up to 1998, Rear (includes non-IFS front)	
83-1026-1	1999-2008, ALL	
83-1027-1	2009 to Current, ALL	

## GM 8.5 "O" Axle

PART NO.	RATIO	TEETH
49-0049-1	3.42	41-12
49-0050-1	3.90	39-10
69-0328-1	4.10	41-10

Fits 2.93-3.23 ratio carrier.

INSTALLATION KITS	Featuring Timken® bearings.
83-1088-1	
83-1088-C	Half Kit

## GM 8.5 & 8.625

PART NO.	RATIO	NOTES
GM85308	3.08	
GM85342	3.42	
GM85373	3.73	
GM85410	4.10	
GM85456	4.56	

INSTALLATION KITS	Featuring Koyo® bearings.
XL-1021-1	Car and truck up to 1998 (includes non-IFS front)
XL-1026-1	1999-2008 All
XL-1027-1	8.5", 8.6" 2009 to Current All

## GM 8.875 Truck

PART NO.	RATIO	TEETH	CARRIER
49-0068-1	3.08	40-13	3
49-0070-1	3.42	41-12	3
49-0072-1	3.73	41-11	3
49-0280-1	3.73	41-11	4
69-0204-1	4.10	41-10	4
69-0350-1	4.10	41-10	3
69-0206-1	4.56	41-9	4
69-0352-1	4.56	41-9	3
69-0298-1	4.88	39-8	4
69-0300-1	5.13	41-8	4
69-0302-1	5.38	43-8	4

When installing 5.13 and 5.38 ratio sets, differential cross shaft #80-0269-1 must be used.

3 - Fits 3.40 ratio and numerically lower carrier.

4 - Fits 3.73 ratio and numerically higher carrier.

INSTALLATION KITS	Featuring Timken® bearings.
83-1018-1	
83-1018-M	
83-1018-B	Half Kit

## Choose the Best Gear Ratio For Your Vehicle

The chart below shows RPM (rotations per minute) calculations at 55 miles per hour, for various combinations of final gear ratios.

The entire shaded area on the chart below represents a generally agreed on acceptable 2,000-3,000 RPM range.

- Improve Fuel Economy**
- Optimum Range (2,300-2,600 RPM)**
- Improve Power**

Gear Ratio	Tire Diameter							
	24	25	26	27	28	29	30	31
2.56	1972	1892	1820	1752	1690	1631	1577	1526
2.73	2102	2018	1940	1869	1802	1740	1682	1627
2.94	2264	2173	2090	2012	1942	1874	1811	1753
3.08	2372	2277	2189	2108	2033	1963	1897	1836
3.21	2472	2373	2282	2197	2119	2046	1977	1914
3.31	2549	2447	2353	2266	2185	2110	2039	1973
3.42	2633	2528	2303	2341	2257	2179	2107	2039
3.54	2726	2617	2516	2423	2336	2256	2181	2110
3.73	2872	2757	2651	2553	2462	2377	2298	2224
3.90	3003	2883	2772	2669	2574	2485	2402	2325
4.10	3157	3031	2914	2806	2706	2613	2526	2444
4.27	3288	3156	3035	2923	2818	2721	2630	2545
4.56	3511	3371	3291	3121	3010	2906	2809	2718
4.88	3758	3607	3469	3340	3221	3110	3006	2909
5.29	4073	3910	3760	3621	3491	3371	3259	3154
5.38	4143	3977	3824	3682	3551	3428	3314	3207
5.71	4397	4221	4058	3908	3769	3639	3517	3404
6.17	4751	4561	4385	4223	4072	3932	3801	3678
7.17	5521	5300	5096	4907	4732	4569	4417	4274

The following formula was used in the chart below to calculate the optimum final gear ratios.

$$\frac{\text{MPH x Gear Ratio}}{\text{Tire Diameter}} \times 336 = \text{RPM}$$

When selecting a gear ratio, consider the following:

1. Tire size
2. Transmission ratio
3. Final gear ratio
4. Engine RPM at cruise speed

Tire Diameter								
32	33	34	35	36	38	40	42	44
1478	1434	1391	1352	1314	1245	1183	1126	1075
1577	1529	1484	1441	1401	1328	1261	1201	1147
1698	1646	1599	1552	1509	1429	1358	1294	1235
1779	1725	1674	1626	1581	1498	1423	1355	1294
1854	1798	1745	1695	1648	1561	1483	1412	1348
1912	1854	1799	1748	1699	1610	1529	1456	1390
1975	1915	1859	1806	1756	1663	1580	1505	1436
2044	1982	1924	1869	1817	1772	1635	1558	1487
2154	2089	2027	1969	1915	1814	1723	1641	1567
2252	2184	2120	2059	2002	1897	1802	1716	1638
2368	2296	2228	2165	2105	1994	1894	1804	1722
2466	2391	2321	2255	2192	2077	1973	1879	1793
2633	2554	2478	2408	2341	2218	2107	2006	1915
2818	2733	2652	2577	2505	2373	2255	2147	2050
3055	2962	2875	2793	2716	2573	2444	2328	2222
3107	3013	2924	2841	2762	2616	2486	2367	2260
3298	3198	3104	3015	2931	2777	2638	2512	2398
3563	3455	3354	3258	3167	3001	2851	2715	2591
4141	4015	3897	3786	3681	3487	3313	3155	3011

## 12 Bolt Truck **EXCEL**

PART NO.	RATIO	NOTES
12BT308	3.08	Truck
12BT342	3.42	Truck
12BT373	3.73	Truck
12BT373T	3.73	Truck Thick
12BT410	4.10	Truck
12BT410T	4.10	Truck Thick
12BT456	4.56	Truck
12BT456T	4.56	Truck Thick
12BC342	3.42	Car 3
12BC355	3.55	Car 3
12BC373	3.73	Thin 4 Series Case

### INSTALLATION KITS Featuring Koyo® bearings.

XL-1018-1 Truck

## GM 8.875 "C" Axle, Car **Richmond Pro Gear**

PART NO.	RATIO	TEETH	CARRIER
79-0099-1	4.11	37-9	4
79-0074-1	4.33	39-9	4
79-0072-1	4.56	41-9	4
79-0064-1	4.88	39-8	4
79-0027-1	5.14	36-7	4
79-0029-1	5.38	43-8	4
79-0031-1	5.57	39-7	4
79-0033-1	5.86	41-7	4
79-0035-1	6.14	43-7	4

\*Pro Gears are specifically designed for drag race only.

### INSTALLATION KITS Featuring Timken® bearings.

83-1019-1

83-1019-M (Will not fit "B" body)

83-1019-B Half Kit





## GM 8.875 "C" Axle, Car

PART NO.	RATIO	TEETH	CARRIER
49-0094-1	3.08	40-13	3
49-0113-1	3.42	41-12	3
49-0095-1	3.55	39-11	3
49-0039-1	3.73	41-11	3
49-0096-1	3.73	41-11	4
49-0040-1	3.90	39-10	3
49-0088-1	3.90	39-10	4
69-0304-1	4.10	41-10	3
69-0031-1	4.10	41-10	4
69-0378-1	4.33	39-9	4
69-0306-1	4.56	41-9	3
69-0032-1	4.56	41-9	4
69-0033-1	4.88	39-8	4
69-0034-1	5.14	36-7	4
69-0035-1	5.38	43-8	4
69-0037-1	5.86	41-7	4
69-0038-1	6.14	43-7	4

When installing 5.14 to 6.14, differential pin #80-0269-1 must be used.

3 - Fits 3.07 to 3.73 ratio carrier.

4 - Fits 3.90 ratio and numerically higher carrier.

## GM 8.875 12 Bolt

PART NO.	RATIO	NOTES
12BC373T	3.73	3 Series Case
12BC410	4.10	Car 4
12BC410T	4.10	Car Thick 3 Series Case
12BC456	4.56	Car 4 Series Case
12BC456T	4.56	Car Thick 3 Series Case

**INSTALLATION KITS** Featuring Koyo® bearings.

XL-1019-1 All 12 Bolt Car

## GM 9.25" IFS

PART NO.	RATIO	NOTES
GM925410	4.1	
GM925456	4.56	
GM925488	4.88	

**INSTALLATION KITS** Featuring Koyo® bearings.

XL-2005-1 All IFS

## GM 9.3 "C" Axle

PART NO.	RATIO	TEETH	CARRIER
69-0006-1	4.10	41-10	4
69-0008-1	4.56	41-9	4
69-0009-1	4.88	39-8	4

When replacing 3.23 and numerically lower ratios, the higher carrier must be replaced with a carrier 4.10 or higher.

**INSTALLATION KITS** Featuring Timken® bearings.

83-1053-1

**GM 9.5" EXCEL<sup>SM</sup> RICHMOND<sup>TM</sup>**

PART NO.	RATIO	NOTES
GM95342	3.42	
GM95373	3.73	
GM95410	4.1	
GM95456	4.56	
GM95488	4.88	
<b>INSTALLATION KITS</b> Featuring Koyo <sup>®</sup> bearings.		
XL-1066-1	1981-1997	
XL-1067-1	1998 to Current	

**GM 10.5" EXCEL<sup>SM</sup> RICHMOND<sup>TM</sup>**

PART NO.	RATIO	NOTES
GM105373	3.73	
GM105410	4.1	
GM105456	4.56	
GM105456TK	4.56	Thick
GM105488TK	4.88	Thick
GM105513TK	5.13	Thick
<b>INSTALLATION KITS</b> Featuring Koyo <sup>®</sup> bearings.		
XL-1063-1	Excel GM 10.5" 1972-1988 ALL Ratios	
XL-1064.1	Excel GM 10.5" 1988-1997 ALL Ratios	
XL-1065-1	Excel GM 10.5" 1998 to Current - ALL Ratios	

**Nissan Titan RICHMOND<sup>TM</sup>**

REAR	
PART NO.	RATIO
49-0180-1	3.73
69-0481-1	4.10
<b>INSTALLATION KITS</b> Featuring Timken <sup>®</sup> bearings.	
83-1085-1	
83-1085-C	Half Kit
FRONT	
PART NO.	RATIO
49-0181-1	3.73
69-0482-1	4.10
<b>INSTALLATION KITS</b> Featuring Timken <sup>®</sup> bearings.	
Contact Factory	



**Toyota 7.5 IFS & Rear** **EXCEL**™ **RICHMOND**™

PART NO.	RATIO	TEETH
T75456	4.56	41-9
T75488	4.88	39-8
T75529	5.29	37-7
T75571	5.71	40-7
<b>INSTALLATION KITS</b> Featuring Koyo® bearings.		
XL-1039-1	Toyota 7.5" IFS, 1976-1995	

**Toyota 8 Late High Pinion IFS** **RICHMOND**™

PART NO.	RATIO	NOTES
69-0500-1	4.88	29 Spline
* Thick gear - Fits 3.70 and down cases. When replacing 3.90+ ratios, must use 3.70 and down case.		
<b>INSTALLATION KITS</b> Featuring Timken® bearings.		
Contact Factory		

**Toyota 8 (7.8)** **EXCEL**™ **RICHMOND**™

PART NO.	RATIO	TEETH
T8411	4.10	41-10
T8456	4.56	41-9
T8488	4.88	39-8
T8529	5.29	37-7
T8571	5.71	40-7
<b>INSTALLATION KITS</b> Featuring Koyo® bearings.		
XL-1030-1	Toyota, 7.8", 1976-1995	

**Toyota V-6** **EXCEL**™ **RICHMOND**™

PART NO.	RATIO	TEETH
TV6410	4.10	41-10
TV6456	4.56	41-9
TV6488	4.88	39-8
TV6529	5.29	37-7
TV6571	5.71	40-7

NOTE: 27 SPLINE

NOTE: Will not fit 3rd members that had factory 4.88 ratio, must replace with non-4.88 3rd member case

NOTE: 2002+ models with TRD locked rear require use of earlier model 27 spline pinion yoke sold separately.

<b>INSTALLATION KITS</b> Featuring Koyo® bearings.		
XL-1046-1	Toyota 7.5", V6, 1979-2013 (Various NON-TRD)	



## Single Axle Kits

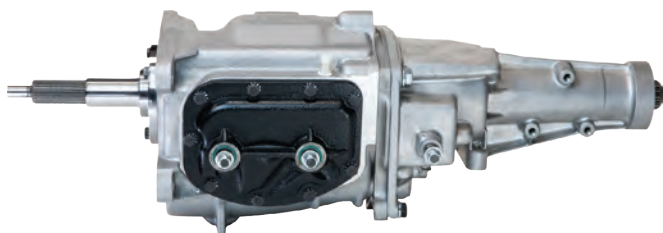
Excel by Richmond replacement single axle kits are forged from high-quality steel alloy, combined with computer controlled heat treatment, making them stronger and more durable than original equipment axles. The Excel axles listed below, are sold individually and are accurately designed to replace or upgrade existing axles.

ITEM NO.	LOCATION	DIFFERENTIAL	SPLINES	LENGTH (IN INCHES)	STUD PATTERN	MAKE
92-27455	Rear	7.25"	25	31.25	5 x 4.50"	Dodge
92-23307	Driver Rear	7.5 & 8.8"	28	30.125	5 x 4.50"	Ford
92-23308	Passenger Rear	7.5 & 8.8"	28	27.25	5 x 4.50"	Ford
92-23355	Driver Rear	7.5 & 8.8"	28	32.25	5 x 4.50"	Ford
92-23369	Rear	7.5 & 8.8"	28	30.75	5 x 4.50"	Ford
92-23392	Driver Rear	7.5 & 8.8"	28	30.25	5 x 4.50"	Ford
92-23393	Passenger Rear	7.5 & 8.8"	28	27.25	5 x 4.50"	Ford
92-23311	Rear	7.5 & 8.8"	28	32.25	5 x 4.50"	Ford, Lincoln, Mercury
92-25150	Rear	7.5"	28		5 x 5.00"	Buick, Cadillac, Chevy, Oldsmobile, Pontiac
92-25125	Rear	7.5"	26	30.5	5 x 4.75"	Buick, Chevy, Oldsmobile, Pontiac
92-25165	Rear	7.5"	26	30.125	5 x 4.75"	Chevy
92-25112	Rear	7.5"	28	28.813	5 x 4.75"	Chevy, GMC
92-25134	Rear	7.5"	28	34.813	5 x 5.00"	Chevy, GMC
92-25135	Rear	7.5"	28	30.313	5 x 5.00"	Chevy, GMC
92-25152	Rear	7.5"	26	29	5 x 4.75"	Chevy, GMC
92-25158	Rear	7.5"	26	34.75	5 x 4.75"	Chevy, GMC
92-25159	Passenger Rear	7.5"	26	30.313	5 x 4.75"	Chevy, GMC
92-25167	Driver Rear	7.5"	28	34.813	5 x 4.75"	Chevy, GMC
92-25169	Passenger Rear	7.5"	28	30.313	5 x 4.75"	Chevy, GMC
92-25113	Rear	7.5"	29	32	5 x 4.75"	Chevy, Pontiac
92-25185	Rear	7.5"	28	32	5 x 4.75"	Chevy, Pontiac
92-23335	Rear	7.5"	28	29.125	5 x 4.50"	Ford
92-23336	Passenger Rear	7.5"	28	26.25	5 x 4.50"	Ford
92-23345	Passenger Rear	7.5"	28	27.688	5 x 4.50"	Ford
92-23310	Rear	7.5"	28	32.25	5 x 4.50"	Ford, Lincoln, Mercury
92-23390	Rear	7.5"	28	30.875	5 x 4.50"	Ford, Lincoln, Mercury
92-23382	Rear	7.5"	28		4 x 4.25"	Ford, Mercury
92-25108	Rear	7.625"	28	26.625	5 x 4.75"	Chevy, GMC
92-25103	Rear	7.625"	28	26.625	5 x 4.75"	Chevy, GMC, Isuzu
92-25170	Rear	7.625"	28	28.813	5 x 4.75"	Chevy, GMC, Isuzu, Oldsmobile
92-25160	Rear	7.625"	28	29	5 x 4.75"	Chevy, GMC, Oldsmobile
92-25168	Rear	7.625"	28	29	5 x 4.75"	Chevy, GMC, Oldsmobile

ITEM NO.	LOCATION	DIFFERENTIAL	SPLINES	LENGTH (IN INCHES)	STUD PATTERN	MAKE
92-25182	Driver Rear	8.0"	28	28	6 x 127mm	Buick, Chevy, GMC, Oldsmobile
92-25183	Passenger Rear	8.0"	28	28	6 x 127mm	Buick, Chevy, GMC, Oldsmobile
92-29650	Rear	8.0"	30	29.38	7 x 150mm	Toyota
92-29600	Rear	8.0"	30	26.71	6 x 5.50"	Toyota
92-29625	Rear	8.0"	30	28.35	6 x 5.50"	Toyota
92-25142	Rear	8.2 & 8.6"	28	29.625	5 x 4.75"	Buick, Chevy, Oldsmobile, Pontiac
92-27415	Rear	8.25 & 8.375"	27	32.563	5 x 5.50"	Dodge
92-27430	Rear	8.25 & 8.375"	27	30.75	6 x 4.50"	Dodge
92-27400	Passenger Rear	8.25"	29	30.26	6 x 4.50"	Dodge
92-27401	Passenger Rear	8.25"	29	33.27	6 x 4.50"	Dodge
92-27475	Rear	8.25"	27	30.75	5 x 4.50"	Dodge
92-31215	Rear	8.25"	29	30.87	5 x 4.50"	Jeep
92-31220	Rear	8.25"	27	29.813	5 x 4.50"	Jeep
92-31270	Driver Rear	8.25"	29	29.75	5 x 4.50"	Jeep
92-25195	Rear	8.5 & 8.6"	30	30	5 x 5.00"	Buick, Chevy, Oldsmobile, Pontiac
92-25115	Rear	8.5 & 8.6"	30	33	6 x 5.50"	Cadillac, Chevy, GMC
92-25173	Rear	8.5 & 8.6"	30	34.25	6 x 5.50"	Cadillac, Chevy, GMC
92-25120	Rear	8.5 & 8.6"	30	31.375	5 x 4.75"	Chevy, GMC
92-25140	Rear	8.5 & 8.6"	30	31.5	6 x 5.50"	Chevy, GMC
92-25100	Rear	8.5"	30	30.375	5 x 5.00"	Buick, Cadillac, Chevy
92-25157	Rear	8.5"	28	30.438	5 x 4.75"	Buick, Chevy, Oldsmobile, Pontiac
92-25105	Rear	8.5"	30	30.375	5 x 5.00"	Cadillac, Chevy
92-25175	Rear	8.5"	30	30.5	5 x 4.75"	Chevy
92-25110	Rear	8.5"	30	33.25	5 x 127mm	Chevy, GMC
92-25119	Rear	8.5"	28	33.125	6 x 5.50"	Chevy, GMC
92-25127	Rear	8.5"	28	33.313	5 x 5.50"	Chevy, GMC
92-25178	Rear	8.5"	28	31.375	5 x 5.00"	Chevy, GMC
92-25180	Rear	8.5"	30	33	6 x 5.00"	Chevy, GMC
92-25184	Rear	8.5"	28	31.5	6 x 5.50"	Chevy, GMC
92-25190	Rear	8.5"	30	33.313	5 x 5.00"	Chevy, GMC
92-25114	Rear	8.5"	28	30.125	5 x 4.75"	Chevy, GMC, Pontiac
92-25117	Rear	8.6"	31	33.25	6 x 127mm	Buick, Chevy, GMC, Isuzu, Saab
92-25118	Rear	8.6"	30	31.75	6 x 127mm	Buick, Chevy, GMC, Isuzu, Saab
92-25130	Rear	8.6"	30	31.813	5 x 5.00"	Cadillac Chevy, GMC
92-25132	Rear	8.6"	31	33.563	6 x 5.50"	Cadillac Chevy, GMC
92-25145	Rear	8.6"	30	33.563	6 x 5.50"	Cadillac, Chevy, GMC
92-23305	Driver Rear	8.8"	31	35.625	5 x 5.50"	Ford
92-23317	Driver Rear	8.8"	31	31.75	5 x 135mm	Ford

ITEM NO.	LOCATION	DIFFERENTIAL	SPLINES	LENGTH (IN INCHES)	STUD PATTERN	MAKE
92-23318	Passenger Rear	8.8"	31	33.5	5 x 135mm	Ford
92-23325	Passenger Rear	8.8"	31	31.063	5 x 5.50"	Ford
92-23326	Driver Rear	8.8"	31	33.188	5 x 5.50"	Ford
92-23330	Passenger Rear	8.8"	31	31.063"	5 x 5.50"	Ford
92-23331	Driver Rear	8.8"	32	35.688	5 x 5.50"	Ford
92-23338	Passenger Rear	8.8"	31	33.62	6 x 135mm	Ford
92-23339	Driver Rear	8.8"	31	35.27	6 x 135mm	Ford
92-23340	Passenger Rear	8.8"	31	31.063	5 x 5.50"	Ford
92-23341	Driver Rear	8.8"	31	33.188	5 x 5.50"	Ford
92-23350	Passenger Rear	8.8"		31.75	5 x 135mm	Ford
92-23351	Driver Rear	8.8"	31	33.375	5 x 135mm	Ford
92-23352	Passenger Rear	8.8"	31	31.75	5 x 135mm	Ford
92-23353	Driver Rear	8.8"	31	33.375	5 x 135mm	Ford
92-23357	Passenger Rear	8.8"	31	32.71	5 x 4.50"	Ford
92-23358	Driver Rear	8.8"	31	31.83	5 x 4.50"	Ford
92-23360	Rear	8.8"	28	30.688	5 x 4.50"	Ford
92-23377	Driver Rear	8.8"	31	30.5	5 x 4.50"	Ford
92-23378	Passenger Rear	8.8"	31	27.625	5 x 4.50"	Ford
92-23380	Rear	8.8"	28	29.938	5 x 4.50"	Ford
92-23315	Rear	8.8"	28	34.3	5 x 4.50"	Ford, Lincoln, Mercury
92-23316	Rear	8.8"	31	35.87	5 x 4.50"	Ford, Lincoln, Mercury
92-23370	Rear	8.8"	28	31.5	5 x 4.50"	Ford, Lincoln, Mercury
92-23375	Rear	8.8"	28	31.5	5 x 4.50"	Ford, Lincoln, Mercury
92-25198	Rear	8.875"	30	29.563	5 x 4.75"	Chevy
92-25155	Rear	8.875"	30	31.281	6 x 5.50"	Chevy, GMC
92-25192	Rear	8.875"	30	31.313	5 x 4.75"	Chevy, GMC
92-25122	Passenger Rear	8.875"	30	30.063	5 x 4.75"	Chevy, Pontiac
92-23385	Rear	9.0"	31	31.844	5 x 4.50"	Ford
92-27405	Rear	9.25"	31	31.625	5 x 5.50"	Dodge
92-27420	Rear	9.25"	31	32.563	5 x 5.50"	Dodge
92-27440	Driver Rear	9.25"	31	33.313	6 x 4.50"	Dodge
92-27441	Passenger Rear	9.25"	31	30.25	6 x 4.50"	Dodge
92-27480	Rear	9.25"	31	34.125	5 x 5.50"	Dodge
92-25147	Rear	9.5 & 9.6	33	34.84	8 x 6.50"	Chevy, GMC
92-25174	Rear	9.5"	33	34.02	6 x 5.50"	Cadillac, Chevy, GMC
92-25138	Rear	9.5"	33	31.813	8 x 6.50"	Chevy, GMC
92-25148	Rear	9.5"	33	33.125	6 x 5.50"	Chevy, GMC
92-25172	Rear	9.5"	33	32.5	8 x 6.50"	Chevy, GMC
92-23343	Driver Rear	9.75"	34	33.37	5x 135mm	Ford
92-23313	Passenger Rear	9.75"	34	33.6	6 x 135mm	Ford

ITEM NO.	LOCATION	DIFFERENTIAL	SPLINES	LENGTH (IN INCHES)	STUD PATTERN	MAKE
92-23314	Rear	9.75"	34	35.27	6 x 135mm	Ford
92-23332	Passenger Rear	9.75"	34	31.72	5 x 135mm	Ford
92-23333	Driver Rear	9.75"	34	33.38	5 x 135mm	Ford
92-23344	Passenger Rear	9.75"	34	33.375	5 x 135mm	Ford
92-23395	Passenger Rear	9.75"	34	31.75	5 x 135mm	Ford
92-23395	Passenger Rear	9.75"	34	31.75	5 x 135mm	Ford
92-23396	Driver Rear	9.75"	34	33.375	5 x 135mm	Ford
92-23365	Driver Rear	10.25"	35	33	8 x 6.50"	Ford
92-23374	Passenger Rear	10.25"	35		7 x 150mm	Ford
92-23379	Passenger Rear	10.25" & 10.5"	35	31.5	8 x 6.50"	Ford
92-25162	Driver Rear	10.5"	30	33.375	8 x 6.50"	Chevy, GMC
92-25163	Passenger Rear	10.5"	30	39	8 x 6.50"	Chevy, GMC
92-25188	Passenger Rear	10.5"	30	37.563	8 x 6.50"	Chevy, GMC
92-23328	Passenger Rear	10.5"	35		8 x 6.50"	Ford
92-23329	Driver Rear	10.5"	35		8 x 6.50"	Ford
92-25166	Rear	11.5"	30	35.938	8 x 6.50"	Chevy
92-25128	Rear	11.5"	37	36.69		Chevy, GMC
92-31205	Driver Rear	AMC Model 20	29	26.25	5 x 5.50"	Jeep
92-31210	Driver Rear	AMC Model 20	29	28.5	5 x 5.50"	Jeep
92-31211	Driver Rear	AMC Model 20	29	31.5	5 x 5.50"	Jeep
92-31200	Driver Rear	Dana 35	27	31.875	5 x 127mm	Jeep
92-31201	Passenger Rear	Dana 35	27	30.938	5 x 127mm	Jeep
92-31240	Driver Rear	Dana 35	27	30.563	5 x 4.50"	Jeep
92-31241	Passenger Rear	Dana 35	27	29.125	5 x 4.50"	Jeep
92-31285	Driver Rear	Dana 35	27	30.563	5 x 4.50"	Jeep
92-31286	Passenger Rear	Dana 35	27	29.063	5 x 4.50"	Jeep
92-31290	Driver Rear	Dana 35	27	30.563	5 x 4.50"	Jeep
92-31291	Passenger Rear	Dana 35	27	30.563	5 x 4.50"	Jeep
92-31225	Rear	Dana 44	30	32.5	5 x 127mm	Jeep
92-31255	Driver Rear	Dana 44	30	32.375	5 x 127mm	Jeep
92-31260	Driver Rear	Dana 44	30	30.25	5 x 4.50"	Jeep
92-31261	Passenger Rear	Dana 44	30	29.25	5 x 4.50"	Jeep
92-31275	Passenger Rear	Dana 44	30	29.688	5 x 4.50"	Jeep
92-31276	Driver Rear	Dana 44	31	29.25	5 x 4.50"	Jeep
92-31295	Passenger Rear	Dana 44	32	32.5	5 x 127mm	Jeep
92-31296	Driver Rear	Dana 44	32	31.1	5 x 127mm	Jeep



## Super T-10 & Super T-10 PLUS 4-Speed

Born in the Muscle Car Era of the 1960's, the Richmond Super T10 and T-10 Plus have been improved for the demands of modern torque hungry engines.

- The original performance transmission!
- Up to 375 lb-ft. of torque capacity
- Light but strong at just 70 lbs. (dry)
- Robust side lever rail shift mechanism
- Multiple gearing and overdrive options available

A four speed countershaft helical gear transmission, the Super T10 is synchronized in all forward gears. First and reverse are "constant mesh" to prevent gear clash, while strut-type synchronizers provide longer life and easier shifting. Five models are available to fit specific applications. All five ratio sets provide a low first gear while retaining a relatively close spacing between 2nd to 3rd and 3rd to 4th gears. The Richmond Super T10 Plus has been re-engineered for the power of today's engines, using the latest in CNC machining and heat treating. The T-10 Plus combines our synchro assemblies and NASCAR proven technology, to deliver the smoothness and strength that road racers demand.

## Available Ratios

Super T10 Plus Part #	Super T10 Part #	1st	2nd	3rd	4th	Torque
7021510	1304000070	2.43	1.61	1.23	1.00	375 ft-lb
7021520	1304000069	2.64	1.75	1.34	1.00	325 ft-lb
7021530	7021090	2.64	1.60	1.23	1.00	325 ft-lb
7021540	1304000072	2.88	1.91	1.33	1.00	300 ft-lb
7021550	1304000062	2.88	1.74	1.33	1.00	300 ft-lb
7021560	1304000071	3.42	2.28	1.46	1.00	286 ft-lb



# Engineered for *Torque Hungry* Engines!



## Super Street 5-Speed with Overdrive

Richmond Super Street 5-Speed transmissions deliver the ultimate blend of performance and economy. The use of low gear ratios for the first four gears provides dramatic acceleration, while a low fifth gear provides a smooth and economical highway ride.

- The perfect blend of performance and MPG!
- Up to 600 lb.-ft. of torque capacity
- Strong and light at 106 lbs. (dry)
- Robust side lever rail shift mechanism
- Multiple 1st gear options available

The Richmond Super Street 5-Speed transmission is designed to exceed the specific requirements of the most demanding road racer. The Super Street 5-Speed transmission is made using the latest CNC machining and in house heat treat. This transmission features a NASCAR proven Super Street style steel billet front bearing retainer for extra strength, making this unit perfect for extreme duty clutches. Available in a wide variety of ratios, this transmission has tremendous torque multiplication and easy serviceability. Fully synchronized for smooth shifting, this 5-speed meets the challenge of demanding shifting of the road racer!

## Available Ratios

Super Street 5-Speed Part #	1st	2nd	3rd	4th	5th	Torque
7020526A	3.33	1.85	1.31	1.00	.77	600 ft-lb
7020526B	2.89	1.85	1.31	1.00	.77	600 ft-lb
7020526C	3.06	1.85	1.31	1.00	.77	600 ft-lb

# POWERTRAX



## Powertrax Lock-Right Locker

The Powertrax Lock-Right Zytanium® ultra-strength alloy locker's straight-line performance is equal to a solid spool, but automatically unlocks in turns. When extreme traction output and high-strength are required, hot-rodders, muscle car owners and off-roaders choose Lock-Right Lockers!

Best suited for extreme off-road to severe on-road use, Powertrax Lock Right lockers replace the spider gears in your open differential carrier using basic tools and without affecting your ring and pinion settings. The whole job can be done in your driveway in a couple of hours, pin included!



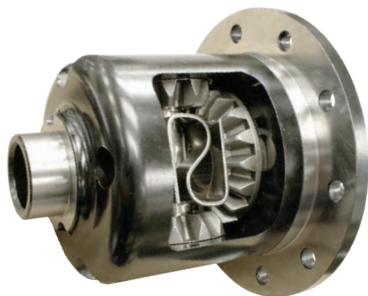
## Powertrax No-Slip Traction Systems

For vehicles that are driven daily, the Powertrax No-Slip Traction System is the latest design in quiet traction-adding differential technology. It combines the automatic street-friendly smooth operation of a limited-slip differential with the traction performance of a locking differential. Our patented SynTRAC™ synchronization mechanism eliminates the ratcheting sounds typical of other automatic locking differentials.

Only the highest quality Zytanium® ultra-strength alloy material is used. The Powertrax No-Slip locker easily installs in to your differential carrier using basic tools and without affecting your ring and pinion settings.

# W<sup>®</sup> Extreme Traction Systems!

**POWERTRAX<sup>®</sup>**  
**GRIP<sup>™</sup>**  
**LS**



The Powertrax Grip LS, is a clutch type posi-unit in a forged steel case. This differential uses a set of carbon clutch discs to provide traction as needed, is rebuild-able and serviceable, and aimed squarely at the street machine market.

**POWERTRAX<sup>®</sup>**  
**GRIP<sup>™</sup>**  
**PRO**



The PowerTrax Grip Pro is a gear driven limited slip differential in a machined, forged steel case. Designed to be among the strongest and most durable in the industry. The Powertrax Grip Pro delivers progressive and variable traction based off of throttle input. On the road, and on the track, Grip Pro is a winner!

**POWERTRAX<sup>®</sup>**  
**GRIP<sup>™</sup>**  
**LOK**



If you are looking for the ultimate in traction control, the Powertrax Grip Lok is the answer.

Using our automatic locking technology, the Powertrax Grip Lok delivers proven mechanically actuated traction. This is our strongest locking differential, offering the ultimate in competition for street, strip and off-road capabilities.

# POWERTRAX® Extreme Traction Systems!

MFG	AXLE CODE	SIZE	SPLINE	TYPE	SPECIAL NOTES
AMC	AMC-20	8.875	29	OPEN	
CHRY		8.25	27	OPEN	
CHRY		8.25	27	TRAC-LOK	
CHRY		8.25	29	OPEN	
CHRY		8.25	29	TRAC-LOK	
CHRY		8.75	30	OPEN	
CHRY		9.25	31	OPEN	
CHRY		9.25	31	TRAC-LOK	
DANA	MODEL-25	7.75	10	OPEN	
DANA	MODEL-27	7.2	10	OPEN	
DANA	MODEL-30	7.2	27	OPEN	
DANA	MODEL-30	7.2	30	N/A	
DANA	MODEL-35	7.565	27	OPEN	NON C-CLIP
DANA	MODEL-35	7.565	27	OPEN	IFS
DANA	MODEL-35	7.565	27	OPEN	IFS & ABS
DANA	MODEL-35	7.565	27	OPEN	1992.5 & earlier Non-ABS, C-Clip & Non C-Clip, Case ID 1.626"
DANA	MODEL-35	7.565	27	OPEN	1993 to Current/ABS, C-Clip & IFS, Case ID 1.558"
DANA	MODEL-35	7.565	27	TRAC-LOK	TRAC-LOK NON C-CLIP
DANA	MODEL-35	7.565	27	TRAC-LOK	TRAC-LOK C-CLIP
DANA	MODEL-44	8.5	19	OPEN	
DANA	MODEL-44	8.5	27	OPEN	
DANA	MODEL-44	8.5	30	OPEN	
DANA	MODEL-44	8.5	35	N/A	
DANA	MODEL-44	8.5	10	OPEN	
DANA	MODEL-44	8.5	30	TRAC-LOK	
DANA	MODEL-50	9	30	OPEN	
DANA	MODEL-50	9	30	OPEN	
DANA	MODEL-60	9.75	30	OPEN	NON C-CLIP
DANA	MODEL-60	9.75	30	OPEN	C-CLIP
DANA	MODEL-60	9.75	30	TRAC-LOK	NON C-CLIP
DANA	MODEL-60	9.75	30	TRAC-LOK	C-CLIP
DANA	MODEL-60	9.75	32	TRAC-LOK	
DANA	MODEL-60	9.75	35	OPEN	
DANA	MODEL-60	9.75	35	TRAC-LOK	
DANA	MODEL-70	10.5	32	OPEN	
DANA	MODEL-70	10.5	35	OPEN	
DANA	MODEL-80	11.5	35	OPEN	

\*Call for availability

	POWERTRAX	LOCK RIGHT	GRIP LS	GRIP PRO	GRIP LOK	GRIP CASE BREAK
	92-0120-2900	1710-LR				
	92-0382-2705	1230-LR	LS308227*			ALL
	92-0382-2725		LS308227*			ALL
	92-0382-2905		LS308229*			ALL
			LS308229*			ALL
		1240-LR				
	92-0392-3105	1220-LR	LS309231*			ALL
	92-0392-3125		LS309231*			ALL
		2110-LR				
		2115-LR				
	92-0430-2700	2210-LR	LS443027*	GT443027*	LK443027*	3.73 to Current
				GT443030*	LK443030*	3.73 to Current
		2310-LR	LS443527*	GT443527*	LK443527*	3.54 to Current
	92-0435-2701	2310-LR	LS443527*	GT443527*	LK443527*	3.54 to Current
	92-0435-2702	2311-LR	LS443527*	GT443527*	LK443527*	3.54 to Current
	92-0435-2705	2310-LR	LS443527*	GT443527*	LK443527*	3.54 to Current
	92-0435-2706	2311-LR	LS443527*	GT443527*	LK443527*	3.54 to Current
			LS443527*	GT443527*	LK443527*	3.54 to Current
	92-0435-2725		LS443527*	GT443527*	LK443527*	3.54 to Current
		2413-LR				
	92-0444-2700	2414-LR				
	92-0444-3000	2410-LR	LS444430*	GT444430*	LK444430*	3.92 to Current
					LK434435*	3.73 & DOWN
		2415-LR				
	92-0444-3020		LS444430*	GT444430*	LK444430*	3.92 to Current
		2510-LR				
		2510-LR				
		2610-LR	LS436030*	GT436030*	LK436030*	4.10 & DOWN
		2610-LR	LS436030*	GT436030*	LK436030*	4.10 & DOWN
			LS436030*	GT436030*	LK436030*	4.10 & DOWN
	92-0460-3025		LS436030*	GT436030*	LK436030*	4.10 & DOWN
	92-0460-3220					
	92-0460-3500	2620-LR	LS436035*	GT436035*	LK436035*	4.10 & DOWN
	92-0460-3520		LS436035*	GT436035*	LK436035*	4.10 & DOWN
		2711-LR				
		2710-LR				
		2810-LR				

# POWERTRAX® Extreme Traction Systems!

MFG	AXLE CODE	SIZE	SPLINE	TYPE	SPECIAL NOTES
FORD		7.5	28	OPEN	
FORD		8	28	OPEN	
FORD	3/4 SHAFT	8.8	28	OPEN	
FORD	3/4 SHAFT	8.8	31	OPEN	
FORD	7/8 SHAFT	8.8	31	OPEN	
FORD	3/4 SHAFT	8.8	31	TRAC-LOK	
FORD	7/8 SHAFT	8.8	31	TRAC-LOK	
FORD		9	28	OPEN	
FORD		9	31	OPEN	
FORD		9	35	OPEN	30 DEGREE PRESSURE ANGLE (Grip only)
FORD		9	35	N/A	45 DEGREE PRESSURE ANGLE (Grip only)
FORD		9.75	34	OPEN	
FORD		10.25	35	OPEN	
FORD	3 PINION	10.5	35	OPEN	
GM	10 BOLT	7.5	26	OPEN	
GM	10 BOLT	7.625	26	OPEN	
GM	10 BOLT	7.625	28	OPEN	
GM	10 BOLT	8.2	28	OPEN	
GM	10 BOLT	8.2	28	OPEN	
GM	10 BOLT	8.5	28	OPEN	
GM	10 BOLT	8.5	30	OPEN	
GM	10 BOLT	8.6	30	OPEN	
GM	12 BOLT	8.875	30	OPEN	
GM	12 BOLT	8.875	30	N/A	
GM	14 BOLT	9.2	33	OPEN	
GM	14 BOLT	9.5	33	OPEN	
GM	14 BOLT	10.5	30	OPEN	
NISSAN	H233	9.1	31	OPEN	
NISSAN	C200K			OPEN	
SUZUKI		6.9	26	OPEN	
SUZUKI		6.9	26	OPEN	
TOYOTA		7.5	27	OPEN	
TOYOTA	2 PINION	8	30	OPEN	
TOYOTA	2 PINION	8	30	OPEN	
TOYOTA	4 PINION	8	30	OPEN	
TOYOTA	12 BOLT	8.875	10	OPEN	
TOYOTA	12 BOLT	8.875	30	OPEN	
DANA	MODEL-70	10.5	32	OPEN	
DANA	MODEL-70	10.5	35	OPEN	

\*Call for availability

	POWERTRAX	LOCK RIGHT	GRIP LS	GRIP PRO	GRIP LOK	GRIP CASE BREAK
		1830-LR				
	92-0680-2800	1810-LR	LS108028*	GT108028		
	92-0688-2807	1820-LR				
		1821-LR	LS108831*			ALL
	92-0688-3108	1822-LR	LS108831*			ALL
			LS108831*			ALL
	92-0688-3128		LS108831*			ALL
	92-0690-2800	1810-LR	LS109028*	GT109028	LK109028*	ALL
	92-0690-3100	1810-LR	LS109031*	GT109031	LK109031*	ALL
				GT109035		ALL
				GT109035-45		
				GT109734		ALL
		1840-LR	LS101035*			ALL
	92-0605-3500					
	92-0775-2605	1930-LR	LS247526*			3.23 to Current
		1932-LR	LS247526*			3.23 to Current
	92-0776-2805	1931-LR	LS247528*			3.23 to Current
	92-0782-2801					
	92-0782-2805	1940-LR				
	92-0785-2805	1920-LR	LS201028*			2.73 to Current
	92-0785-3005	1921-LR	LS201030			2.73 to Current
	92-0786-3005		LS201030			2.73 to Current
	92-0788-3005	1910-LR	LS231230*			3.90 & DOWN
			LS241230*			4.10 to Current
		1950-LR				
	92-0795-3305	1950-LR				
	92-0705-3000	1955-LR				4.10 & DOWN
		3220-LR				
	92-1480-3100					
		1510-LR or 1530-LR				
		1512-LR or 1532-LR				
		1611-LR				
	92-2080-3001	1610-LR				
	92-2080-3002	1615-LR				
		1620-LR				
		1631-LR				
	92-2088-3001					
		2711-LR				
		2710-LR				

## WARRANTY

RICHMOND GEAR™ warrants that all new RICHMOND GEAR™ products, will be free from defects in material and workmanship for the first 12 Months ( 1 YEAR ) or 100,000 miles, whichever comes first.

THIS WARRANTY WILL NOT APPLY IF ANY PART HAS BEEN MODIFIED, DAMAGED OR IS DEFECTIVE AS A RESULT OF ANY ACCIDENT, MISUSE, USE IN COMPETITIVE APPLICATIONS, IMPROPER INSTALLATION, NEGLIGENCE, REPAIR OR ALTERATION. COMPETITION PARTS ARE SOLD "AS IS", WITHOUT ANY WARRANTY WHATSOEVER. IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED; THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF SUCH PARTS IS WITH THE BUYER. SHOULD SUCH PARTS PROVE DEFECTIVE FOLLOWING THEIR PURCHASE, THE BUYER AND NOT THE MANUFACTURER, DISTRIBUTOR OR RETAILER, ASSUMES THE ENTIRE COST OF ALL NECESSARY SERVICING OR REPAIR.

The RICHMOND GEAR™ parts warranty is voided if the part is used for competition or if it has been modified. To make a warranty claim on parts used in non-competitive applications, distributors should contact RICHMOND GEAR™, and individuals should contact their RICHMOND GEAR™ distributor for a Return Goods Authorization (RGA) Number. No returns will be accepted without an RGA Number. All parts should be returned to RICHMOND GEAR™ freight prepaid. RICHMOND GEAR™ will issue a credit equal to the original purchase price for all defective parts covered by this warranty. In the event that a warranty claim cannot be substantiated by RICHMOND GEAR™, the parts will be returned to the customer freight collect.

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