

**INDEPENDENT QUICK  
CHANGE REAR ENDS**  
CATALOG IR / VOLUME 1

**WINTERS**



# THE MOST ADVANCED INDEPENDENT QUICK CHANGE AVAILABLE

Winters' Championship Independent is equipped with a 10", 4.12 ring & pinion, heat-treated lower shaft, Winters Track differential or spool, caliper-mount side bells, pinion roller nose bearing upgrade, Posi-Lock nut assembly, double-cup drop-in pinion race, ARP ring gear bolts, 1350 Series output flanges, and your choice of a 10-spline straight cut gear set.



### Dual Inboard Brake Kit P/N SR2838

Built specifically for a quick change rear end, this Wilwood kit comes complete with polished calipers and all installation hardware.



**Assembly P/N SRP637**  
10" Independent w/Winters Track Diff w/6-Bolt Cover  
Shown with standard forged aluminum gear cover  
Option 8208 thermal dispersant coating  
Option SR8219-35 CV joint flange

### ASSEMBLIES

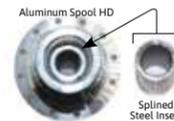
<b>SRP437</b>	10" Independent w/Winters Track Diff
<b>SRP337</b>	10" Independent w/Aluminum Spool
<b>SRP537</b>	10" Independent w/Aluminum Spool w/6-Bolt Cover
<b>SRP637</b>	10" Independent w/Winters Track Diff w/6-Bolt Cover
<b>SRP437NQ</b>	10" Non-Quick Change w/Winters Track Diff
<b>SRP337NQ</b>	10" Non-Quick Change w/Aluminum Spool

### OPTIONS

<b>SR8133-10-6</b>	6-Bolt Cover
<b>SR8106V</b>	Lower Shaft, Vascomax® 10-Spline
<b>SR8106V-32</b>	Lower Shaft, Vascomax® 32-Spline
<b>SR8115-31HD</b>	Aluminum Spool HD w/ Splined Steel Insert, 31-Spline
<b>SR8115-35HD</b>	Aluminum Spool HD w/ Splined Steel Insert, 35-Spline
<b>SR8219-31</b>	CV Joint Flange 930, 31-Spline, Porsche®
<b>SR8219-35</b>	CV Joint Flange 930, 35-Spline
<b>SR9154-35</b>	CV Joint Flange 934, 35-Spline, HD
<b>SR8208</b>	Thermal Dispersant Coating
<b>SR8218-RP</b>	REM® Ring & Pinion
<b>SR8218-BRG</b>	REM® Bearings
<b>SR8252B</b>	Billet Gear Cover With Retainers
<b>SR8275-1</b>	Yoke, 1350 Series
<b>SR8207</b>	Polishing



**ALUMINUM SPOOL**  
P/N SR3353-31 (31-Spline)  
P/N SR3353-35 (35-Spline)



**ALUMINUM SPOOL HD W/ SPLINED STEEL INSERT**  
P/N SR3353-31HD (31-Spline)  
P/N SR3353-35HD (35-Spline)



**CV JOINT FLANGE 930**  
P/N SR2944-31 Output Flange (31-Spline) 930  
P/N SR2944-35 Output Flange (35-Spline) 930



**CV JOINT FLANGE 934**  
P/N SR9154-35



**WINTERS TRACK DIFFERENTIAL**  
**P/N SR2418-31** (31-Spline) / **P/N SR2418-35** (35-Spline)  
Our 31-Spline Winters Track Differential is standard equipment in all Championship Independent assemblies. CNC-machined to exacting tolerances, this virtually unbreakable, parallel gear design automatically senses wheel spin and delivers positive traction.

**Assembly P/N SRP337**  
10" Independent w/Aluminum Spool w/10-Bolt Cover  
Shown with: Option SR8252B billet gear cover and Option SR8219-31 CV joint flange



**Assembly P/N SRP437**  
10" Independent w/Winters Track Diff w/10-Bolt Cover  
Shown with standard Corvette-style output flanges, standard gear cover and Option SR8207 polishing



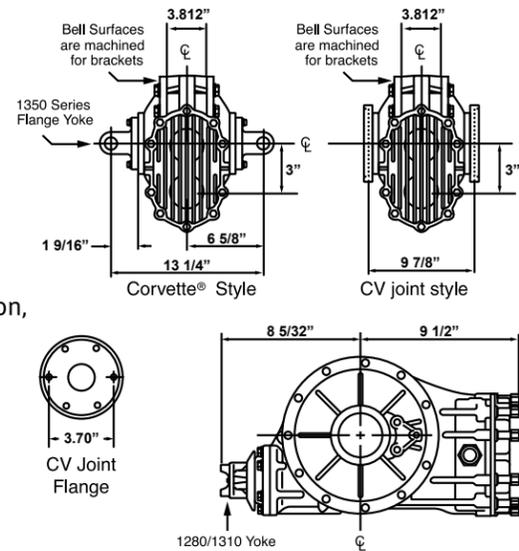
**Assembly P/N SRP437NQ**  
10" Non-Quick Change w/Winters Track Diff  
Shown with standard Corvette-style output flanges



## COMPACT INDEPENDENT QUICK CHANGE

for applications up to 600 horsepower

Winters' V8 Independent is equipped with an 8-3/8", 3.78 ring & pinion, heat-treated lower shaft, Winters Wedgelock differential, caliper-mount side bells, support bearing upgrade, Posi-Lock nut assembly, and your choice of a 6-spline straight cut gear set.



### Assembly P/N SRP437-838

shown in natural cast with Option SR8211-V8B billet aluminum gear cover.

See Page 8 for exploded view and parts list

## ASSEMBLIES

- SRP437-838** 8-3/8" with Wedgelock Diff
- SRP437-838NQ** 8-3/8" Non-Quick Change

## OPTIONS

- SR8207** Polishing
- SR8211** Billet Gear Cover
- SR8275-1** Yoke, 1350 Series, 10-Spline
- SR9132** Polished Gear Cover Only
- SR9134** Natural Cast Gear Cover



**STEEL 1310 SERIES FLANGE YOKE**  
P/N 3702



**ALUMINUM 1310 SERIES FLANGE YOKE**  
P/N 3453-01



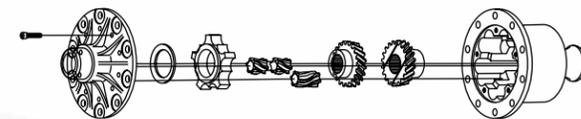
**U-BOLT 1310 SERIES FLANGE YOKE**  
P/N 4862

## WEDGELOCK DIFFERENTIAL



### SR3252

The Wedgelock is an all gear drive differential and is standard equipment in all V8 Independent rears. Its unique, race-proven gear design automatically senses wheel spin and delivers positive traction for smooth and durable performance.



Gear Cover Sold Separate  
P/N SR12350 natural cast cover with bearings  
(for polishing add P/N SR8207-12350)



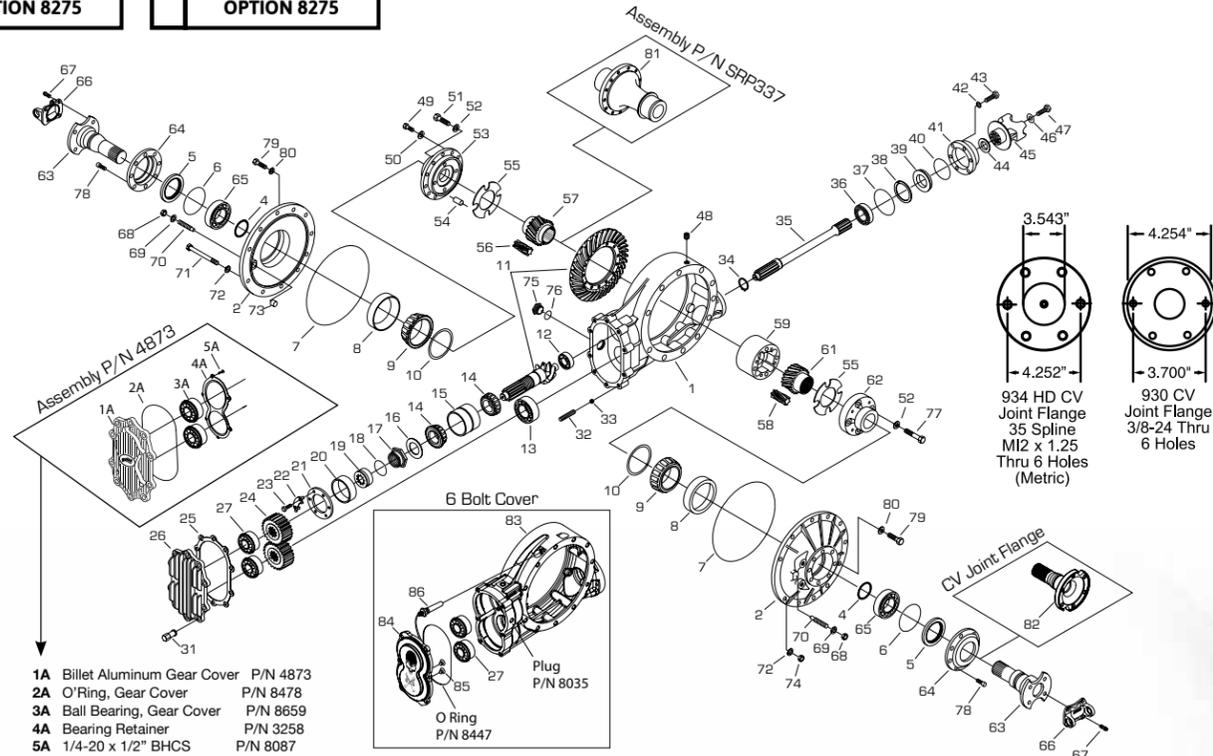
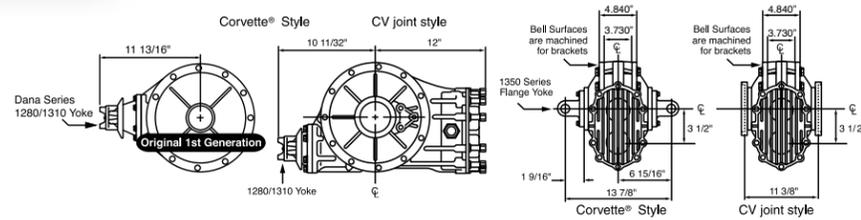
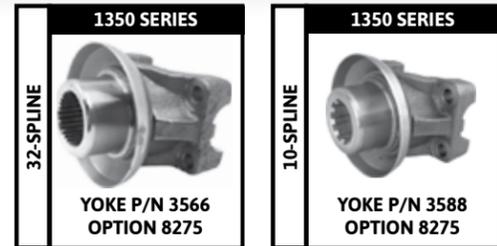
Gear Cover Sold Separate  
P/N SR8211 polished



Assembly shown with 930 CV joint  
adapter flange P/N SR12626



**P/N SRP437** 10" Independent  
**P/N SRP337** 10" Independent w/ Aluminum Spool



- 1A Billet Aluminum Gear Cover P/N 4873
- 2A O'Ring, Gear Cover P/N 8478
- 3A Ball Bearing, Gear Cover P/N 8659
- 4A Bearing Retainer P/N 3258
- 5A 1/4-20 x 1/2" BHCS P/N 8087

Must be specific when ordering replacement parts. P/N's shown are unpolished. Polishing available at extra charge.

### 31 & 35-SPLINE OUTPUT FLANGE

	<b>SR2944-31</b>	Output Flange, 31-Spline, 930 Style CV Joint
	<b>SR2944-35</b>	Output Flange, 35-Spline, 930 Style CV Joint
	<b>SR4874-01</b>	Output Flange, 35-Spline HD 934 Style CV Joint

### JOURNAL ASSEMBLY

**P/N 5382 1310 Series**  
1-1/16" Dia w/ grease fitting

**P/N 6847 1310 Series**  
1-1/16" Dia w/o grease fitting

**P/N 6996 1350 Series**  
1-3/16" Dia w/ grease fitting

### U-BOLT KITS

**KIT INCLUDES**  
 (2) U-Bolts  
 (4) Lock Washers  
 (4) Hex Nuts

Torque: 15 Ft Lbs

### WINTERS TRACK DIFF

**WINTERS TRACK DIFF**  
 P/N SR2418-31 (31-Spline)  
 P/N SR2418-35 (35-Spline)

**Race-Proven Gear Design**  
 Automatically senses wheel spin and delivers positive traction

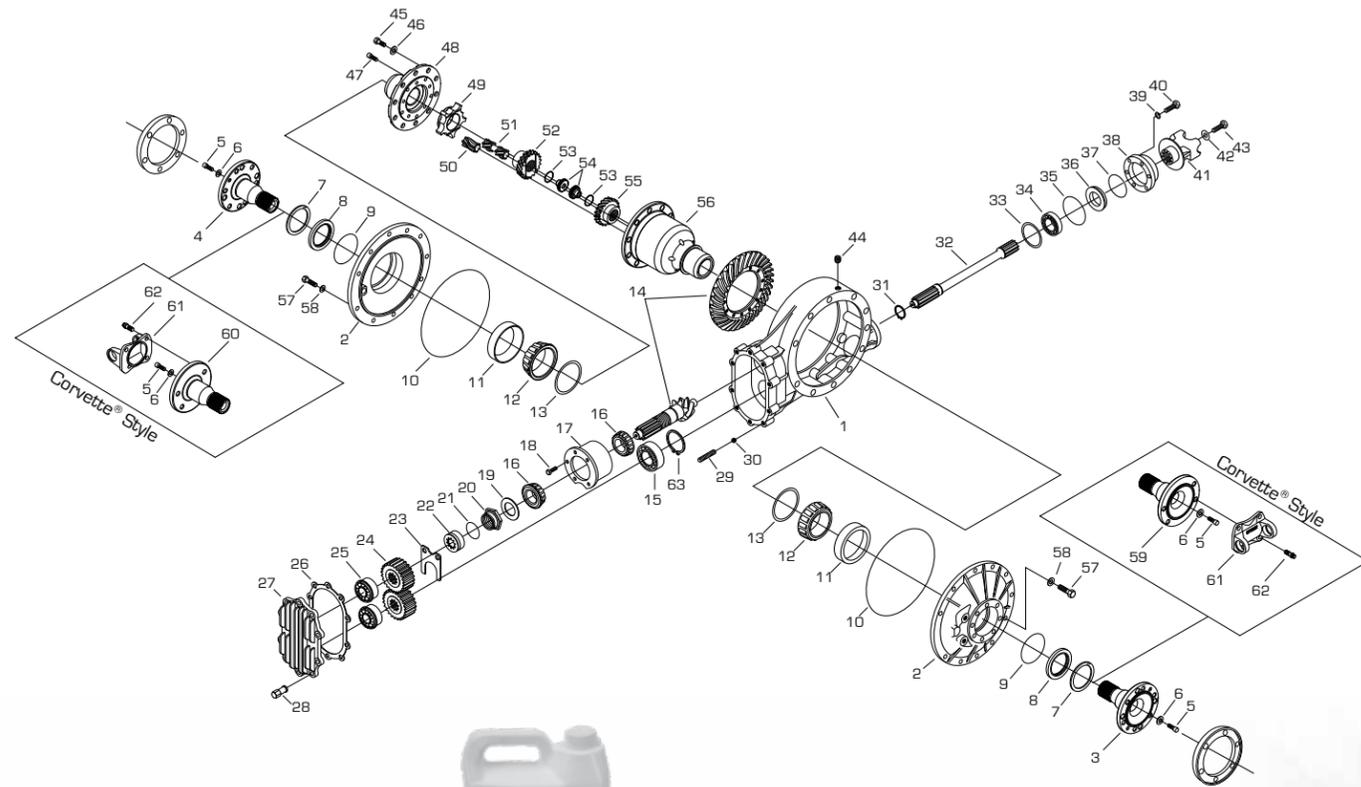
KIT P/N	A	B	SERIES	JOURNAL DIA.
5855	1.406"	1.684"	1310	1 1/16"
5855L	1.406"	1.934"	1310	1 1/16"
6999	1.640"	2.000"	1350	1 3/16"

#	P/N	DESCRIPTION	QTY REQ'D
1	5840	Aluminum "Sprint" Center Section	1
2	2928	Side Bell	2
4	7619	Retaining Ring	2
5	7236	Seal, Side Bell	2
6	7413	O'Ring, Side Bell Seal	2
7	7403T	O'Ring, Side Bell	2
8	7357	Bearing Cup, Side Bell	2
9	7358	Bearing Cone, Differential	2
10	6115	Shim Kit	1
11	5714	Ring & Pinion, 4.12 Standard	1
12	7331	Roller Bearing, Pinion Nose	1
13	7339	Shielded Ball Bearing, Lower Shaft	1
14	7308	Bearing Cone, Pinion Shaft	2
15	7307	Double Bearing Cup, Pinion Shaft	1
16	5055	Bearing Washer, Pinion	1
17	6485R	Posi-Lock Nut	1
18	7445	O'Ring, Posi-Lock Retainer	1
19	6484	Posi-Lock Retainer	1
20	5020	Retaining Ring	1
21	6296A	Retainer Plate	1
22	2374	Lock Tab	3
23	7110	3/8-16 x 1" HHCS	6
24	8500	Quick Change Gear Set	1
25	6729HD	Gasket, Gear Cover, HD	1
26	6508	Gear Cover	1
27	8659	Double Roller Ball Bearing w/Snap Ring	2
31	7794	3/8-16 Steel High Nut	10
32	7802	3/8-16 x 1 3/4" Stud, Gear Cover	10
33	7398	5/16" Diameter Steel Ball, Gear Cover Stud	10
34	7610	Retaining Ring, Lower Shaft	1
35	5003	Heat-Treated Lower Shaft, 10-Spline	1
35	5003-32	Lower Shaft, Heat Treated, 32-Spline	1
35	5003-V	Lower Shaft, Vascomax®, 10-Spline	1
35	5003V-32	Lower Shaft, Vascomax®, 32-Spline	1
36	7390	Ball Bearing, Lower Shaft	1
37	7413	O'Ring, Seal Plate	1
38	7653	Retaining Ring, Seal Plate	1
39	7204V	Seal, Seal Plate	1
40	7474	O'Ring, Seal	1
41	5018-01M	Seal Plate, 750° Seal (.375" P/N 5018M)	1
42	7114	3/8" SAE Flatwasher	6
43	7107	3/8-16 x 1-1/4" HHCS	6
44**	6532-1	Spacer, Drive Yoke	1
45*	3533	Drive Yoke, 1310, Steel	1
45*	3566	Drive Yoke, 1350, Steel, 32-Spline	1
45*	3588	Drive Yoke, 1350, Steel, 10-Spline	1

#	P/N	DESCRIPTION	QTY REQ'D
46	5037	Retaining Washer, Drive Yoke	1
47	7109Y	3/8-24 x 1" HHCS	1
48	7874S	#6 Steel Plug	1
49	7852ARP	Ring Gear Bolt, Threaded Ring Gear	12
50	7815ARP	3/8" Washer, Threaded Ring Gear	12
51	7113	1/2-20 x 2" HHCS	4
52	8005	1/2" Belleville Washer	8
53	2940	Housing End, Ring Gear Side	1
54	1459-01	Sleeve	4
55	6315-01	Wear Plate	2
56	6329-02	Pinion Gear, Left Hand	4
57*	6330-01	Side Gear, Left Hand, 31-Spline	1
57*	6330-35L	Side Gear, Left Hand, 35-Spline	1
58	6329-01	Pinion Gear, Right Hand	4
59	6361	Central Housing	1
61*	6330-02	Side Gear, Right Hand, 31-Spline	1
61*	6330-35R	Side Gear, Right Hand, 35-Spline	1
62	2941	Housing Cover	1
63*	2943-31	Output Flange, Corvette-Style	2
64	2945	Seal Plate, Output Flange	2
65	7531	Bearing (Remove Shields)	2
66	6320	Yoke, For Use With 2943-31 Only 1350 Series	2
67	7740	7/16-20 x 3/4" 12pt	8
68	7137	1/2-13 Jam Nut, Adjusting Screw	2
69	7167	1/2" Flatwasher	2
70	6149	1/2-13 Adjusting Screw	2
71	7176	7/16-20 x 5 1/2" HHCS	10
72	7177	7/16" SAE Flatwasher	22
73	5010	Thrust Block	1
74	7177N	7/16-20 Flanged Locknut	10
75	6857-01	Small Inspection Plug	1
76	7454	O'Ring, Inspection Plug	1
77	8058	1/2-20 x 1 1/2" HHCS	4
78	7195	Bolt	16
79	7117	7/16-14 X 1 1/4" HHCS	2
80	7178	7/16" SAE Flatwasher	2
81*	SR3353-31	Aluminum Spool, 31-Spline	1
81*	SR3353-35	Aluminum Spool, 35-Spline	1
82*	SR2944-31	Output Flange, 31-Spline, Porsche® 930 Style CV Joint	2
82*	SR2944-35	Output Flange, 35-Spline, Porsche® 930 Style CV Joint	2
82*	SR4874-01	Output Flange, 35-Spline HD 934 Style CV Joint	2
<b>6-BOLT COVER</b>			
83	12088	Aluminum 6-Bolt Center	1
84	12175	Billet Aluminum 6-Bolt Gear Cover	1
85	12417	Bearing Retainer	2
86	2966-02	Breather Assembly (Sold Separately)	1

\* Part Numbers in this list may vary depending on options ordered at time of purchase. Please check the assembly tag included with your rear.  
 \*\* Used only with P/N 5038AS.

**P/N SRP437** 8-3/8" w/Wedgelock Diff  
**P/N SRP437-838NQ** 8-3/8" Non-Quick Change



**P/N SR1730**  
 Use Winters Semi-Synthetic  
 Lube with Moly 80-90-140

For Safety Data Sheet information please visit [www.wintersperformance.com](http://www.wintersperformance.com)

#	P/N	DESCRIPTION	QTY REQ'D
1	2524HD	Aluminum V8 Center Section	1
2	4658	Side Bell	2
3	4610-01	Output Flange, Right	1
4	4610-02	Output Flange, Left, Long	1
5	9363	7/16-20 x 3" SHCS	2
6	7921	Belleville Washer	2
7	8390	Retaining Ring	2
8	8976V	Seal, Side Bell	2
9	8419	O'Ring, Side Bell Seal	2
10	7451	O'Ring, Side Bell	2
11	7302	Bearing Cup, Side Bell	2
12	7301	Bearing Cone, Differential	2
13	6709	Shim Kit	1
14	6811	Ring & Pinion, 3.78 Standard	1
15	7534	Shielded Ball Bearing, Lower Shaft	1
16	7527	Bearing Cone, Pinion Shaft	2
17	7525	Double Bearing Cup, Pinion Shaft	1
18	9308	3/8-16 x 1" HHCS (Torx®)	6
19	6824	Bearing Washer, Pinion	1
20	6821	Posi-Lock Nut	1
21	7455	O'Ring, Posi-Lock Retainer	1
22	6822	Posi-Lock Retainer	1
23	6751	Bearing Retainer, Pinion	1
24	4500	Quick Change Gear Set, 1-3/8" Wide	1
25	7532-01	Double Roller Ball Bearing w/Snap Ring	2
26	6703HD	Gasket, Gear Cover, HD	1
27	3056	Gear Cover	1
28	7794	3/8-16 Steel High Nut	10
29	7802	3/8-16 x 1-3/4" Stud, Gear Cover	10
30	7398	5/16" Diameter Steel Ball, Gear Cover Stud	10
31	7658	Retaining Ring, Lower Shaft	1
32	6881-01	Heat Treated Lower Shaft	1

#	P/N	DESCRIPTION	QTY REQ'D
33	6680	Steel Spacer, Bearing	1
34	7390	Ball Bearing, Lower Shaft	1
35	7413	O'Ring, Seal Plate	1
36	7204	Seal, Seal Plate	1
37	7474	O'Ring, Seal	1
38	K6854-01M	Seal Plate, .750" Seal (.375" P/N 5018M)	1
39	7114	3/8" SAE Flatwasher	6
40	7110	3/8-16 x 1 1/4" HHCS	6
41*	5038	Drive Yoke, Steel	1
41*	5038AS	Drive Yoke, Aluminum	1
42	5037	Retaining Washer, Drive Yoke	1
43	7109Y	3/8-24 x 1" HHCS	1
44	7111B	3/8" Pipe Plug	1
45	7852ARP	Ring Gear Bolt, Threaded Ring Gear	10
46	7815ARP	3/8" Washer, Threaded Ring Gear	10
47	8796	1/4-28 x 1" 12pt	5
48	1688	Cover, Wedgelock Differential	1
49	1996	Scalloped Spacer	1
50	1692-01	Pinion Gear, Short	5
51	1692-02	Pinion Gear, Long	5
52	1693-31A	Side Gear, Left, 31-Spline	1
53	8336	Retaining Ring, Side Gear Insert	2
54	4639	Insert, Side Gear	2
55	1693-31B	Side Gear, Right, 31-Spline	1
56	1687	Main Housing, Wedgelock Differential	1
57	7953	3/8-16 X 1 1/4" HHCS (Torx®)	2
58	7151	3/8" SAE Flatwasher	2
59	4846-01	Output Flange, Right, Corvette-Style	1
60	4846-02	Output Flange, Left, Long, Corvette-Style	1
61	3453-01	Yoke	2
62	7740	7/16-20 x 3/4" 12pt	8
63	7655	Retaining Ring, Rear Bearing	1

\* Part Numbers in this list may vary depending on options ordered at time of purchase. Please check the assembly tag included with your rear.  
 \*\* Used only with P/N 5038AS.

## BREAK-IN PROCEDURE

As with any new or rebuilt product, be it an engine, transmission or rear end, it is important to avoid premature wear on the gears and bearings by avoiding full throttle loads and high RPM conditions for at least 20 miles. Start break-in at 30% power and gradually increase not to exceed 80% power.

Drain and refill the gear lube in both the rear end and the quick change gear cavity to the proper oil levels with the car sitting level (over filling will cause excessive heat).

Winters recommends the continued use of Winters P/N 1730 with Moly, semi-synthetic lubricant or Mobil 1® 70-90 weight for the life of your rear end.

## OIL LEVELS

### FULL SIZE REARS 10"

Always maintain oil level at 2" below axle center line. Make sure the rear is level when checking oil.

## TORQUE SPECIFICATIONS

- Threaded Ring Gear Bolts - 60 ft lbs using Red Loctite®
- Thrubolts - 35 ft lbs
- Pinion Retaining Plate Bolts - 25 ft lbs
- Seal Plate Bolts - 20 ft lbs
- Left Bell Adjuster Screw-Snug up, back off 1/4 turn, use red thread lock on jam nut.

### TO DETERMINE GEAR RPM CHANGE

$$\frac{\text{RPM}}{\text{Gear Ratio}} \times \text{New Ratio} = (\text{New RPM})$$

Example:  $\frac{8000}{4.60} \times 5.22 = 9078$

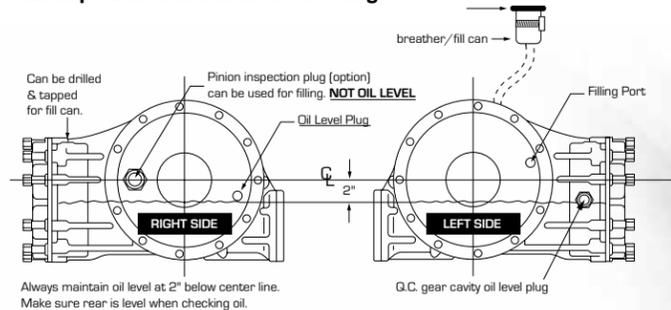
### TO DETERMINE FINAL DRIVE

$$\frac{\# \text{ Teeth Top Gear}}{\# \text{ Teeth Bottom Gear}} \times \text{R\&P Ratio} = (\text{Final Drive})$$

### V8 8-3/8"

Always maintain oil level at 1-3/4" below axle center line. Make sure the rear is level when checking oil.

**IMPORTANT: Make sure rear is level when checking oil. Overfilling can cause problems as well as under filling.**



## 8500 SERIES

Machined from 8620 Steel.  
When ordering add Prefix 85 to Set #.  
Example: Gear Set # 01 = 8501

### GEARING FORMULAS

$$\frac{\text{Ratio} \times \text{MPH}}{\text{Tire Dia.}} \times 336 = \text{RPM} \quad \text{OR} \quad \text{Ratio} = \frac{\text{RPM} \times \text{Tire Dia.}}{\text{MPH} \times 336}$$

Numerical Ratio Listed				4.12 R&P Ratio (8-33 Teeth)	
GEAR SET #	LOW SPUR RATIO	HIGH SPUR RATIO	# OF TEETH	LOW	HIGH
01	1.000	1.000	21/21	4.12	4.12
02	0.964	1.037	27/28	3.97	4.27
05	0.960	1.042	24/25	3.96	4.29
15A	0.955	1.048	21/22	3.93	4.32
15	0.950	1.053	19/20	3.91	4.34
26	0.931	1.074	27/29	3.84	4.43
06	0.920	1.087	23/25	3.79	4.48
25	0.909	1.100	20/22	3.75	4.53
12	0.897	1.115	26/29	3.69	4.60
07	0.885	1.130	23/26	3.65	4.66
07A	0.875	1.143	21/24	3.61	4.71
17	0.867	1.154	26/30	3.57	4.75
17A	0.857	1.167	24/28	3.53	4.81
08A	0.852	1.174	23/27	3.51	4.84
08	0.846	1.182	22/26	3.49	4.87
19	0.840	1.190	21/25	3.46	4.91
09A	0.833	1.200	25/30	3.43	4.94
09	0.826	1.211	19/23	3.40	4.99
11	0.815	1.227	22/27	3.36	5.06
03	0.806	1.240	25/31	3.32	5.11
13	0.800	1.250	20/25	3.30	5.15
18	0.793	1.261	23/29	3.27	5.20
18A	0.786	1.273	22/28	3.24	5.24
04A	0.783	1.278	18/23	3.22	5.26
20A	0.778	1.286	21/27	3.20	5.30
04	0.774	1.292	24/31	3.19	5.32
20	0.769	1.300	20/26	3.17	5.36
22	0.760	1.316	19/25	3.13	5.42
16	0.750	1.333	18/24	3.09	5.49
10	0.739	1.353	17/23	3.05	5.57
10A	0.733	1.364	22/30	3.02	5.62
34A	0.727	1.375	16/22	3.00	5.67
34	0.724	1.381	21/29	2.97	5.69
14	0.719	1.391	23/32	2.96	5.73

Numerical Ratio Listed				4.12 R&P Ratio (8-33 Teeth)	
GEAR SET #	LOW SPUR RATIO	HIGH SPUR RATIO	# OF TEETH	LOW	HIGH
14A	0.714	1.400	20/28	2.94	5.77
35	0.708	1.412	17/24	2.92	5.82
32	0.704	1.421	19/27	2.90	5.86
32A	0.697	1.435	23/33	2.87	5.91
24	0.690	1.450	20/29	2.84	5.97
36	0.680	1.471	17/25	2.80	6.06
37	0.677	1.476	21/31	2.79	6.08
23	0.667	1.500	22/33	2.75	6.18
21	0.655	1.526	19/29	2.70	6.29
21A	0.652	1.533	15/23	2.69	6.32
27	0.647	1.545	22/34	2.67	6.37
43	0.640	1.563	16/25	2.64	6.44
28	0.633	1.579	19/30	2.61	6.51
28A	0.630	1.588	17/27	2.59	6.54
29	0.625	1.600	15/24	2.58	6.59
39	0.621	1.611	18/29	2.56	6.64
30	0.615	1.625	16/26	2.54	6.70
40	0.613	1.632	19/31	2.53	6.72
41	0.607	1.647	17/28	2.50	6.81
31	0.600	1.667	21/35	2.47	6.87
33A	0.593	1.688	16/27	2.44	6.95
33	0.588	1.700	20/34	2.42	7.00
31A	0.583	1.714	21/36	2.40	7.06
30A	0.577	1.733	15/26	2.38	7.14
50	0.571	1.750	20/35	2.35	7.21
51	0.567	1.765	17/30	2.34	7.27
52	0.563	1.778	18/32	2.32	7.32
53	0.559	1.789	19/34	2.30	7.37
54	0.556	1.800	15/27	2.29	7.42
55	0.552	1.813	16/29	2.27	7.47
56	0.548	1.824	17/31	2.26	7.51
57	0.533	1.875	16/30	2.20	7.73
58	0.531	1.882	17/32	2.19	7.76



## 4500 SERIES (1-3/8" WIDE)

Numerical Ratio Listed				3.78 R&P Ratio (9-34 Teeth)		4.33 R&P Ratio (9-39 Teeth)	
GEAR SET #	LOW SPUR RATIO	HIGH SPUR RATIO	# OF TEETH	LOW	HIGH	LOW	HIGH
01	1.000	1.000	24/24	3.78	3.78	4.33	4.33
02	0.958	1.043	23/24	3.62	3.94	4.15	4.52
03	0.920	1.087	23/25	3.48	4.11	3.98	4.71
03B	0.895	1.118	17/19	3.38	4.22	3.87	4.84
03A	0.880	1.136	22/25	3.33	4.30	3.81	4.92
04	0.846	1.182	22/26	3.20	4.47	3.66	5.12
05	0.808	1.238	21/26	3.05	4.68	3.50	5.36
05A	0.792	1.263	19/24	2.99	4.77	3.43	5.47
06	0.778	1.286	21/27	2.94	4.86	3.37	5.57
24	0.767	1.304	23/30	2.90	4.93	3.32	5.65
25	0.750	1.333	18/24	2.84	5.04	3.25	5.77
07	0.741	1.350	20/27	2.80	5.10	3.21	5.85
23	0.727	1.375	16/22	2.75	5.20	3.15	5.95
08	0.714	1.400	20/28	2.70	5.29	3.09	6.06
22	0.704	1.421	19/27	2.66	5.37	3.05	6.15
09	0.696	1.438	16/23	2.63	5.43	3.01	6.22
10	0.682	1.467	15/22	2.58	5.54	2.95	6.35
11	0.667	1.500	18/27	2.52	5.67	2.89	6.50
12	0.655	1.526	19/29	2.48	5.77	2.84	6.61
13	0.652	1.533	15/23	2.47	5.80	2.82	6.64
14	0.636	1.571	14/22	2.41	5.94	2.76	6.80
15	0.625	1.600	15/24	2.36	6.05	2.71	6.93
16	0.615	1.625	16/26	2.33	6.14	2.66	7.04
17	0.600	1.667	18/30	2.27	6.30	2.60	7.22
18	0.591	1.692	13/22	2.23	6.40	2.56	7.33
18A	0.571	1.750	16/28	2.16	6.62	2.47	7.58
19	0.560	1.786	14/25	2.12	6.75	2.42	7.73
20	0.556	1.800	15/27	2.10	6.80	2.41	7.79
27	0.542	1.846	13/24	2.05	6.98	2.35	7.99
21	0.531	1.882	17/32	2.01	7.12	2.30	8.15
28	0.528	1.895	19/36	2.00	7.16	2.29	8.20
29	0.522	1.917	12/23	1.97	7.25	2.26	8.30
26	0.517	1.933	15/29	1.96	7.31	2.24	8.37
30	0.500	2.000	20/40	1.89	7.56	2.17	8.66
31	0.488	2.050	20/41	1.84	7.75	2.11	8.88
32	0.475	2.105	19/40	1.80	7.95	2.06	9.12

Made from heat treated SAE 8620 steel, these crown-cut 6-spline gears are 1-3/8" wide.

A full-sized poster version of this chart is available. Order P/N POSTER6

Remember to refill gear cavity with quality gear lube after gear changes.

### T-SHIRTS



All T-shirts feature the Winters logo on the front and the design on the back

Shirt color (black or white) designated by a "B" or "W" at the end of the part number



**SR1B, SR1W**  
Cross Bones



**SR2B, SR2W**  
Legendary



**SR3B, SR3W**  
Checked Flags



**SR4B, SR4W**  
5 Skulls



**SR5B**  
Hot Rod



**SR6B**  
Winters



**SR7B, SR7W**  
Speed Lines

### POSTERS



**POSTER6**  
6-Spline



**POSTER10**  
10-Spline

### IMPORTANT:

Be sure to include size when ordering t-shirts. Available sizes are S - M - L - XL - 2XL

Posters are 18.5" w X 25" h

**CALL 717-764-9844 TO ORDER**  
or visit [www.wintersperformance.com](http://www.wintersperformance.com)

## INDEPENDENT REAR

### CENTER (choose one)

- Natural Cast  Thermal Dispersant (Black Coated)

### GEAR COVER (choose one)

- 10-Bolt Gear Cover  6-Bolt Gear Cover

### LOWER SHAFT (choose one in each row)

- 10-Spline  32-Spline

- Heat Treated Steel  VascoMax®

- 1310 Yoke  1350 Yoke

### SPOOL / DIFF / OUTPUT FLANGES (choose one in each row)

- 31-Spline  35-Spline

- Spool  Steel Lined Spool  Winters Track

- Corvette Style  930  934 (35-spline only)

## MERCHANDISE

### T-SHIRTS

- SR1B  SR1W  SR2B  
S M L XL 2XL S M L XL 2XL S M L XL 2XL

- SR2W  SR3B  SR3W  
S M L XL 2XL S M L XL 2XL S M L XL 2XL

- SR4B  SR4W  SR5  
S M L XL 2XL S M L XL 2XL S M L XL 2XL

- SR6  SR7B  SR7W  
S M L XL 2XL S M L XL 2XL S M L XL 2XL

### POSTERS

- POSTER6  POSTER10

## IMPORTANT INFORMATION

### WINTERS PERFORMANCE PRODUCTS INC

1580 Trolley Rd, York, PA 17408, USA

717-764-9844

wintersperformance.com

## BACKGROUND

Winters Performance Products, Inc., referred to herein as Winters, manufactures parts and equipment which are purchased by persons in various industries, who may install and use Winters parts and equipment in applications which may not be suitable for that Purchaser's intended purpose. Purchaser understands, recognizes and acknowledges that all parts and equipment manufactured or sold by Winters are exposed to many, varied and unforeseeable uses and conditions. As a consequence, Winters can make no promise, warranty, affirmation or representation as to the performance of its parts or equipment, nor does Winters make any description of the parts or equipment sold to Purchaser, nor does Winters make any description or affirmation of fact concerning any sample or model of parts or equipment except as specifically set forth in this Limited Warranty. As further consideration for Purchaser using Winters' parts or equipment, Purchaser acknowledges that, due to differing conditions and circumstances under which all parts and equipment are installed and used, Purchaser is not relying on Winters' skill and judgement to select or furnish the proper part or equipment. Purchaser expressly affirms that it is relying on its own expertise, skill, and judgement to select, purchase and install parts or equipment which are suitably safe and durable for their intended purpose. Purchaser assumes all risks associated with the performance of Winters parts.

## LIMITED WARRANTY

Winters warrants to Purchaser that any part or equipment manufactured by Winters ("a Part") will conform to the description of such Part contained in the catalog most recently published by Winters prior to the time of sale of such part or equipment to Purchaser ("the Description"). **WINTERS MAKES NO OTHER WARRANTY, EITHER EXPRESS OR IMPLIED WITH RESPECT TO ANY PART. WINTERS EXPRESSLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE OR PURPOSE AND EXPRESSLY DISCLAIMS ANY WARRANTY AS TO THE PERFORMANCE OF ANY PART.** The liability of Winters for breach of the foregoing warranty is limited to repair or replacement of any Part determined to fail to conform to its Description prior to installation and use. The burden of establishing that any Part fails to conform to its Description shall be upon Purchaser. In order to be entitled to repair or replacement of any Part, Purchaser must (i) inspect the part upon receipt; and (ii) notify Winters in writing of the defect PRIOR TO INSTALLATION OF THE PART. In no event shall Winters be liable hereunder for any Part which has been installed. Purchaser assumes all risks relating to a Part once such Part is installed. **WINTERS SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES (INCLUDING BUT NOT LIMITED TO LOST PROFITS) OR FOR LOSS OR DAMAGE DIRECTLY OR INDIRECTLY ARISING FROM THE USE OF A PART.** Every claim under this Limited Warranty shall be deemed waived unless made in writing within ninety (90) days of delivery of the Part by Winters to Purchaser. Purchaser acknowledges that, due to the multiple uses of Parts, it is impossible for Winters to predict the performance of any Parts once installed or the suitability of any Parts for any particular use. Purchaser expressly acknowledges its obligation to inform all users (customers) of the above disclaimer.

## INDEMNITY AGAINST THIRD PARTY CLAIMS

**PURCHASER HEREBY AGREES TO INDEMNIFY AND HOLD HARMLESS WINTERS FROM AND AGAINST ANY AND ALL CLAIMS, LIABILITY, LOSS AND DAMAGES, INCLUDING ATTORNEYS FEES, MADE BY ANY THIRD PARTY AGAINST WINTERS RELATING TO A PART OR THE USE OF ANY PART.**

Purchaser understands and agrees that no officer, director, employee or agent of Winters (including but not limited to any vendor, dealer or distributor) has any authority to make any statements contrary to the terms of this Limited Warranty. Winters specifically disavows any statements contrary to what is written above.

## CHOICE OF LAW/VENUE

This Limited Warranty shall be governed by and construed in accordance with the laws of the Commonwealth of Pennsylvania. Any legal action which may arise as a result of disputes, controversies, or claims arising out of or related to this Limited Warranty or the purchase or use of any Part shall be litigated exclusively in the Court of Common Pleas of York County, Pennsylvania or the United States District Court for the Middle District of Pennsylvania.

## MISCELLANEOUS

This writing constitutes the full, complete and final statement of Winters' Limited Warranty for Parts. All prior oral and written correspondence, test data, negotiations, representations, understandings and the like regarding Parts are merged in this writing and extinguished by it. This Limited Warranty may not be altered, amended, extended or modified except by a writing signed by the President or Vice President of Winters. Winters' failure at any time to enforce any of the terms and conditions stated herein shall not constitute a waiver of any of the provisions herein. This Limited Warranty shall not be assigned by Purchaser. Winters' responsibility for merchandise shipped via common carrier ceases upon delivering the order to the carrier. Winters is not responsible for merchandise lost or damaged in transit. Purchaser must file a claim with the delivery carrier for merchandise lost or damaged during transit. Winters will assist Purchaser by supplying any information necessary for submission of a claim. It is the responsibility of the Purchaser to comply with all laws and regulations, Federal, State and Local, governing resale of products sold by Winters. NSF Charge: \$38.00 per returned check/payment. Repayments must be made by cashier check or money order.

On request, all parts in Winters Performance Products, Inc. inventory and/or catalog are available in super strength heat treated steel (300,000/350,000 P.S.I. tensile strength) at extra cost and special order. Refer to machinery handbook for strengths of other materials.

**RACING IS A DANGEROUS SPORT THAT CAN RESULT IN SERIOUS INJURY OR DEATH. THE ULTIMATE RESPONSIBILITY FOR PARTICIPANT AND VEHICLE SAFETY LIES WITH THE PARTICIPANT.**

©2021 Winters Performance Products, Inc. All rights reserved. Winters Performance Products, Inc. claims no responsibility for typographical errors. Contents may not be reproduced without written permission.



1580 Trolley Rd, York, PA 17408, USA  
717-764-9844

[wintersperformance.com](http://wintersperformance.com)

FOLLOW US ON:

