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Hoosier Performance Engineering's Differential Products

Introduction

Here at Hoosier Performance Engineering we have recently reviewed our differential packages and have made a few minor changes focused on ensuring you, the customer, get a high quality differential that meets your unique requirements at the most economical price possible. Our differential packages are put together so that the right balance of cost and quality is obtained. We go beyond upgrading the known and obvious components and consider the entire assembly including the bearings, each individual casting, all the fasteners, and lastly the assembly process. At Hoosier Performance Engineering our goal is to provide our customers with best in class performance differentials.

We now offer three different series of differential package upgrades beginning with our recently introduced Stock Series and progressing up through our Sportsman Pro Series Stage IV. Each stage in our differential line-up of performance products contains upgrades that align many common engine modification packages beginning with a factory stock product and ending with pure competition focused Corvettes.

We also will work closely with you to further modify our standard packages based on whatever your unique requirements might be. The product line-up and pricing found in this catalog are based on these standard packages but do not reflect the limits of our capabilities. Other services and products we offer include;

- Custom 2005 differential packages
- Torque tube rebuilding
- Torque tube modifications
- Differential cooling packages
- Hoosier Performance Engineering's Strut package
- Differential parts
- And many more.

If you do not see what you need or have any questions we encourage you to contact us at 260-245-0352. You may also visit us on the web at www.hoosierpe.com.

Hoosier Performance Engineering's Differential Products

Product Summary

Below is a brief description of the different packages we offer for your review. However we strongly recommend that before making the final decision you give us a call so we can walk through the decision process with you. Choosing the right differential requires consideration of several factors including horsepower, applications, and your own driving style. No one knows your Corvette better than you do so combining your knowledge with our drivetrain experience is a guaranteed win for you the customer.

STOCK SERIES

This is Hoosier Performance Engineering's first new differential package in the last several years. The Stock Series Stage I package is designed for the customer looking to change a ratio, rebuild his current differential or solve a few pesky leakage problems while at the same time maintaining your Corvette in its factory original condition. Since the focus of this package is to keep your Vette original the Stage I Stock Series is not eligible for our exchange program. This package will only be installed on your original differential.

STREET SERIES

STAGE 1: The Stage 1 differential package was developed for the Corvette owner who still enjoys keeping his Vette exclusively on the street but has included a few bolt-on accessories that make his car stand out in a crowd. We have added a few extra's to the Stage 1 internals and will also ship you a differential that has that like new appearance and is ready to install.

STAGE 2: We have put together this package for the Vette that still stays on the streets but has taken the Horsepower up more than just a notch or two. The Stage 2 is designed to give you that little extra level of confidence you need when you bring those extra ponies to life. With our Stage 2 under your Corvette be it your daily driver or your weekend toy, you will be able to utilize that little extra horsepower with confidence.

Hoosier Performance Engineering's Differential Products

Product Summary – cont.

SPORTMAN SERIES

STAGE 3: The stage 3 was designed for the Corvette owner who drives his Vette to the local track for weekend competition. The Stage 3 has all the right internals to hold up against the typical head/cam car with headers and other features that make it a competitor's car while giving the balance needed to be able to climb in the same Corvette on Monday morning for that dreaded commute to work.

STAGE 4 PRO: As the name indicates this differential is designed for exclusive use in competition. We have included all of the internal components needed to put your power to the ground with confidence. As delivered this differential is a beast ready to handle what you throw at it. We also offer several options that put our Stage 4 Pro over the top including a billet side cover and wired fasteners. If you use your Vette exclusively for competition you need this differential. Spend the week finding that little extra time, not fixing your Corvette.

Hoosier Performance Engineering's Differential Products

Comparison Tables

The following provide a summary of what upgrades and services are provided with each differential Stage in a particular model family. Several of our differentials also have optional upgrades as indicated where ever an "O" appears.

C5 Stage 1-4 Comparison Table

C5 1997 to 2004						
Component Group	Features and upgrades	Stock	Street Series		Sportsman	
		Stock	Stage 1	Stage 2	Stage 3	Stage 4
Gears	DTE Series I Gear Gear-Set	S				
	DTE Series II Gear-Set		S	S	S	
	DTE Series IV Gear-set				O	S
Bearings	DTE Billet Pinion Bearing Support				S	S
	Bearing Inspection	S	S			
	New Bearings	O	O	S	S	S
Limited-Slip Options	Clutch-Pak Inspection	S	S	S		
	Clutch-Pak Replacement (Stock)	O	O	O		
	Heavy Duty Clutch Spring	O	S	S	S	
	Carbon Clutch Pack			O	S	
	Quaife Differential					S
Shafts	Stock					
	C6Z06			S		
	DTE 300M Shafts				S	S
DTE Included	Sealing Kit	S	S	S	S	S
	Differential Lube	O	S	S	S	S
	Cleaned and inspected	S	S	S	S	S
	Preped and Painted		S	S	S	S
	Performance Assembly	S	S	S	S	S
This chart is for comparison purposes only. As each differential can be as unique as the car it is installed in we recommend you contact Hoosier Performance to finalize your package and get an official quote.						
S =Standard included in the price. O = Optional feature upgrade						

Figure 1 C5 Stage Comparison Chart

Hoosier Performance Engineering's Differential Products

C6 Manual Stage 1-4 Comparison Table

		C6M 2006 to 2013					
Component Group	Features and upgrades	Stock	Street Series		Sportsman		
		Stock	Stage 1	Stage 2	Stage 3	Stage 4	
Gears	DTE Series I Gear Gear-Set	S					
	DTE Series II Gear-Set		S	S	S		
	DTE Series IV Gear-set				0	S	
Bearings	DTE Billet Pinion Bearing Support				S	S	
	Bearing Inspection	S	S				
	New Bearings	0	0	S	S	S	
Limited-Slip Options	Clutch-Pak Inspection	S	S				
	Clutch-Pak Replacement (Stock)	0	0	S			
	Heavy Duty Clutch Spring	0	S	S	S		
	Carbon Clutch Pack			0	S		
	Quaife Differential					S	
Shafts	Stock						
	C6Z06						
	DTE 300M Shafts				S	S	
DTE Included	Sealing Kit	S	S	S	S	S	
	Differential Lube	0	S	S	S	S	
	Cleaned and inspected	S	S	S	S	S	
	Preped and Painted		S	S	S	S	
	Performance Assembly	S	S	S	S	S	
<p>This chart is for comparison purposes only. As each differential can be as unique as the car it is installed in we recommend you contact Hoosier Performance to finalize your package and get an official quote.</p> <p>S =Standard included in the price. 0 = Optional feature upgrade</p>							

Figure 2 C6 Manual Transmission Stage Comparison Chart

Hoosier Performance Engineering's Differential Products

C6 A6 Automatic Stage 1-4 Comparison Table

C6A 2006 to 2013						
Component Group	Features and upgrades	Stock	Street Series		Sportsman	
		Stock	Stage 1	Stage 2	Stage 3	Stage 4
Gears	DTE Series I Gear Gear-Set	S				
	DTE Series II Gear-Set		S	S	S	
	DTE Series IV Gear-set				0	S
	30T Spline Pinion	S	S	S	S	S
Bearings	DTE Billet Pinion Bearing Support				S	S
	Bearing Inspection	S	S			
	New Bearings	0	0	S	S	S
Limited-Slip Options	Clutch-Pak Inspection	S	S			
	Clutch-Pak Replacement (Stock)	0	0	S		
	Heavy Duty Clutch Spring	0	S	S	S	
	Carbon Clutch Pack			0	S	
	Quaife Differential					S
Shafts	Stock					
	C6Z06					
	DTE 300N1 Shafts				S	S
DTE Included	Sealing Kit	S	S	S	S	S
	Differential Lube	0	S	S	S	S
	Cleaned and inspected	S	S	S	S	S
	Preped and Painted		S	S	S	S
	Performance Assembly	S	S	S	S	S

This chart is for comparison purposes only. As each differential can be as unique as the car it is installed in we recommend you contact Hoosier Performance to finalize your package and get an official quote.

S = Standard included in the price. 0 = Optional feature upgrade OE = Original Equipment

Figure 3 C6 Automatic Stage Comparison Chart

Hoosier Performance Engineering's Differential Products

Performance Components

Hoosier Performance Engineering utilizes many different components across the different performance packages offered in our different stages. A brief description of some of these components is offered below to assist and help explain the differences between the various stages.

DTE Hypoid Gear-Sets

- **DTE Series One Gear-Set:** The Series One Gear-set is our aftermarket stock replacement ring and pinion produced by Motive® Gear. This is also the base gear-set used to produce our performance products.
- **DTE Series Two Gear-Set:** Our Series Two Gear-Sets have been cryogenically treated using our proprietary process specifications. Cryogenics is beneficial in that it elevates residual stresses left by the heat treat process, increases surface strength and produces a more homogenous grain structure.
- **DTE Series Four Gear-Set:** Our Series Four Gear-Set is our ultimate performance product. The series four gear-set starts with cryogenics and receives two more processes; shot peening and micro-polishing. Shot peening provides induced stresses in key area of the gear-set while micro-polishing eliminates small surface imperfections where cracking can start while at the same time providing a highly polished surface.
- **30-Spline Pinion:** Where ever you see 30T indicates that Hoosier Performance Engineering has modified the gear-set to accept the 30 tooth splines required for application in the A6 automatic transmission. By offering the modification we have expanded the number of ratios available for most C6 applications.

Billet Aluminum Parts

Hoosier Performance Engineering currently offers two components we refer to as "billet" Billet parts are machined from one piece of aluminum usually of a higher quality than aluminum used for casting parts.

Shafts

- **C6Z06 Shafts:** These shafts are improved over the original C5 shafts by GM. We utilize the C6Z06 shaft for our middle of the line upgrades.
- **DTE 4340-300M Shafts:** Hoosier Performance Engineering produces these shafts for high output applications. These shafts are made out of gear quality steel and

are then heat treated to our exacting specifications for a shaft that is not only resistant to fatigue failure but also offers superior shock load capabilities.

HOOSIER PERFORMANCE ENGINEERING'S STOCK SERIES REAR DIFFERENTIALS

There are numerous reasons that might drive you to either want to or have to give your differential some special attention. One might be your desire for a little better acceleration or maybe stretching your fuel economy just a bit more. Maybe you have discovered oil weeping or dripping from your differential or you just feel it is time to have your differential gone through and inspected. We at Hoosier Performance Engineering have recognized that getting professional grade service on your stock differential is something that may be a little difficult finding. As such we are happy to announce our new Stock Series Rear Differential Program.

Our Stock Series package offers an economical means to have your factory stock differential torn down, inspected, and assembled using our proven performance processes and procedures. This is the ideal choice for changing your gear ratio, fixing leaks or just refreshing your high mileage differential. Whatever the reason you will have the peace of mind knowing that the entire process was performed using the same technology and experience found in our more exotic performance diffs.

Stock Series Products:

- Stock Series – Reconditioning package

Application:

- 1997-2004 C5 Corvette - Automatic or Manual Transmission
- 2006-2010 C6 Manual Corvette - Manual Transmission
- 2006-2010 C6 Corvette - A6 Automatic 6-Speed Transmission

HOOSIER PERFORMANCE ENGINEERING'S STOCK SERIES REAR DIFFERENTIALS

C5 Stock Series : \$995.00

Application:

- 1997-2004 C5 Corvette
- Automatic or Manual Transmission

Stock Series Package Includes:

- Complete disassembly of you differential and all internal components.
- A two part professional wash and a thorough inspection of all components.
- Professional performance assembly including;
 - Installation of a new Series One gear-set with a ratio of your choice from the following; 3.42, 3.73, 3.90. Or 4.10.
 - All new OE General Motors seals and gaskets
- Professional final inspection:
 - Bearing preloads
 - Gear contact pattern
 - Back lash
- Packaged complete and shipped insured to the address of your choice.

Available Options:

- New differential bearing set \$269.95
- New OE clutch pack \$262.39
- New HD Cone Washers \$ 21.90
- Two quarts of DTE approved lube \$ 32.95
- Installation by Hoosier Performance Engineering:
\$450.00
- Calibration (required when changing ratios on automatic cars) Call for quote.

Exchange: Not available. This package is designed to upgrade the original differential from your car so we do not offer an exchange program. DTE has tooled up for this package and will do everything in our power to process your differential in three business days.

Warranty²: 90 days

1. See core return policy pg. 27
2. See written warranty pg. 29

HOOSIER PERFORMANCE ENGINEERING'S STOCK SERIES REAR DIFFERENTIALS

C6 Stock Series – Manual Transmission: \$995.00

Application:

- 2006-2010 C6 Manual Corvette
- Manual Transmission

Stock Series Package Includes:

- Complete disassembly of your differential and all internal components.
- A two part professional wash and a thorough inspection of all components.
- Professional performance assembly including;
 - Installation of a new DTE Series One gear-set with a ratio of your choice from the following; 3.42, 3.73, 3.90. or 4.10
 - All new OE General Motors seals and gaskets
- Professional final inspection:
 - Bearing preloads
 - Gear contact pattern
 - Back lash
- Packaged complete and shipped insured to the address of your choice.

Available Options:

- | | |
|--------------------------------|----------|
| • New differential bearing set | \$269.95 |
| • New OE clutch pack | \$262.39 |
| • New HD Cone Washers | \$ 21.90 |
| • Two quarts of approved lube | \$ 32.95 |
| • Installation by HPE | \$450.00 |

Exchange: Not available. This package is designed to upgrade the original differential from your car so we do not offer an exchange program. HPE has tooled up for this package and will do everything in our power to process your differential in three business days.

Warranty²: 90 Days

1. See core return policy pg. 27
2. See written warranty pg. 29

HOOSIER PERFORMANCE ENGINEERING'S STOCK SERIES REAR DIFFERENTIALS

C6 Stock Series – A6 Automatic Transmission: \$1295.00

Application:

- 2006-2010 C6 Manual Corvette
- Manual Transmission

Stock Series Package Includes:

- Complete disassembly of your differential and all internal components.
- A two part professional wash and a thorough inspection of all components.
- Professional performance assembly including;
 - Installation of a new DTE 30T Series One gear-set with a ratio of your choice from the following; 3.42, 3.73, 3.90, 4.10, Opt: GM Low Ratio Gear
 - All new OE General Motors seals and gaskets
- Professional final inspection:
 - Bearing preloads
 - Gear contact pattern
 - Back lash
- Packaged complete and shipped insured to the address of your choice.

Available Options:

- | | |
|--|-----------------|
| • Low Ratio Gearing (2.56, 2.73) | \$225.00 |
| • Low Ratio Gearing (3.15) | \$495.00 |
| • New differential bearing set | \$269.95 |
| • New OE clutch pack | \$262.39 |
| • New HD Cone Washers | \$ 21.90 |
| • Two quarts of DTE approved lube | \$ 32.95 |
| • Installation by Hoosier Performance Engineering: | \$450.00 |
| • Re-Flash ECM (Required with ratio change) | Call for quote. |

Exchange: Not available. This package is designed to upgrade the original differential from your car so we do not offer an exchange program. DTE has tooled up for this package and will do everything in our power to process your differential in three business days.

Warranty²: 90 Days

1. See core return policy pg. 27
2. See written warranty pg. 29

HOOSIER PERFORMANCE ENGINEERING'S STREET SERIES DIFFERENTIALS

You have made the educated decision to purchase a Corvette. You now own an American Icon and truly enjoy the driving experience that can only come from a car in this class. If you are like the majority of Corvette® owners you bought it to drive. It is not unusual for many Corvette® owners to make minor to major changes in their search to make their Vette uniquely theirs while at the same time giving their Vette just a little extra kick. This is why you bought it so don't let an often overlooked and sometimes poorly designed differential rob you of that driving experience. The rear differential was designed to handle the power delivered from factory specs under normal driving conditions. Pushing this envelope can result in your differential wearing out quickly or worse yet, experience a catastrophic failure.

At Hoosier Performance Engineering we have developed our Street Series rear differential upgrade packages to give you the confidence and comfort you need to drive your Vette like you want. We offer two upgrade packages, both designed for exclusive street use, but upgraded to match your specific needs. Each of our Street Series differentials are hand built after your order is received. Assembly of all the right components for your application takes place using a proven process that focuses on meticulous detail that encompasses every component, every fastener, every seal and every aspect of the differential. Once the assembly is complete your carrier then undergoes a second fresh eyes inspection before being packaged and shipped insured to you or your installer.

Street Series Products:

- Street Series Stage 1: Upgraded stock replacement for that extra degree of confidence.
- Street Series Stage 2: Upgraded street differential for mild bolt-on performance enhancements for that complete street performance package.

Application:

- 1997-2004 C5 Corvette - Automatic or Manual Transmission
- 2006-2010 C6 Manual Corvette - Manual Transmission
- 2006-2010 C6 Corvette - A6 Automatic 6-Speed Transmission

HOOSIER PERFORMANCE ENGINEERING'S STREET SERIES DIFFERENTIAL

Street Series Stage 1: \$1395.00 w/exchange

Application:

- 1997-2004 C5 Corvette
- Automatic or Manual Transmission

Street Series Stage 1 Includes:

- Complete disassembly of your differential and all internal components.
- A two part professional wash and a thorough inspection components
- Bead blast all aluminum casting – inspect for cracks, voids, and other potential flaws.
- Paint all exterior surfaces for a like new look.
- Professional performance assembly including;
 - Installation of a new DTE Series Two gear-set with a ratio of your choice from the following; 3.42, 3.73, 3.90. or 4.10
 - New HD Limited slip cone washers
 - All new OE General Motors seals and gaskets
- Professional final inspection:
 - Bearing preloads
 - Gear contact pattern
 - Back lash
- Packaged complete and shipped insured to the address of your choice.
 - Two 1-Quart bottles of DTE approved synthetic differential oil included.

Available Options:

- New differential bearing set \$269.95
- New OE replacement clutch pack \$262.38
- Installation by Hoosier Performance Engineering:
\$450.00
- Calibration (required when changing ratios on automatic cars) Call for quote.

Exchange¹: Your differential can be built into your carrier or you can utilize our exchange program where we assemble your specs into one of our carriers. We will hold a \$750 core deposit pending you returning your differential assembly for inspection and refund.

Warranty²: Six Months

1. See core return policy pg. 27
2. See written warranty pg. 29

HOOSIER PERFORMANCE ENGINEERING'S STREET SERIES DIFFERENTIAL

C6 Street Series Stage 1: Manual \$1495.00 w/exchange

Application:

- 2006-2010 C6 Corvette
- Manual Transmission

Street Series Stage 1 Includes:

- Complete disassembly of your differential and all internal components.
- A two part professional wash and a thorough inspection components
- Bead blast all aluminum casting – inspect for cracks, voids, and other potential flaws.
- Paint all exterior surfaces for a like new look.
- Professional performance assembly including;
 - Installation of a new DTE Series Two gear-set with a ratio of your choice from the following; 3.42, 3.73, 3.90. Or 4.10.
 - New HD Limited slip cone washers
 - All new OE General Motors seals and gaskets
- Professional final inspection:
 - Bearing preloads
 - Gear contact pattern
 - Back lash
- Packaged complete and shipped insured to the address of your choice.
 - Two 1-Quart bottles of DTE approved synthetic differential oil included.

Available Options:

- | | |
|--|----------|
| • New differential bearing set | \$269.95 |
| • New OE replacement clutch pack | \$262.38 |
| • Installation by Hoosier Performance Engineering: | \$450.00 |
| • | |

Exchange¹: Your differential can be built into your carrier or you can utilize our exchange program where we assemble your specs into one of our carriers. We will hold an \$1800 core deposit pending you returning your differential assembly for inspection and refund.

Warranty²: Six Months

1. See core return policy pg. 27
2. See written warranty pg. 29

HOOSIER PERFORMANCE ENGINEERING'S STREET SERIES DIFFERENTIAL

C6 Street Series Stage 1: A6 Automatic \$1995.00 w/exchange

Application:

- 2006-2010 C6 Corvette
- Automatic Transmission

Street Series Stage 1 Includes:

- Complete disassembly of your differential and all internal components.
- A two part professional wash and a thorough inspection components
- Bead blast all aluminum casting – inspect for cracks, voids, and other potential flaws.
- Paint all exterior surfaces for a like new look.
- Professional performance assembly including;
 - Installation of a new DTE 30T Series One gear-set with a ratio of your choice from the following; 3.42, 3.73, 3.90, 4.10, Opt: GM Low Ratio Gear
 - New HD Limited slip cone washers
 - All new OE General Motors seals and gaskets
- Professional final inspection:
 - Bearing preloads
 - Gear contact pattern
 - Back lash
- Packaged complete and shipped insured to the address of your choice.
 - Two 1-Quart bottles of DTE approved synthetic differential oil included.

Available Options:

- | | |
|--|-----------------|
| • Low Ratio Gearing (2.56, 2.73) | \$225.00 |
| • Low Ratio Gearing (3.15) | \$495.00 |
| • New differential bearing set | \$269.95 |
| • New OE replacement clutch pack | \$262.38 |
| • Installation by Hoosier Performance Engineering: | \$450.00 |
| • Re-Flash ECM (Required with ratio change) | Call for quote. |

Exchange¹: Your differential can be built into your carrier or you can utilize our exchange program where we assemble your specs into one of our carriers. We will hold an \$1800 core deposit pending you returning your differential assembly for inspection and refund.

Warranty²: Six Months

1. See core return policy pg. 27
2. See written warranty pg. 29

HOOSIER PERFORMANCE ENGINEERING'S STREET SERIES DIFFERENTIAL

C5 Street Series Stage 2: - \$1795.00 w/exchange

Application:

- 1997-2004 C5 Corvette
- Automatic or Manual Transmission

Street Series Stage 2 Package Includes:

- Complete disassembly of your differential and all internal components.
- A two part professional wash and a thorough inspection of all components.
- Bead blast all aluminum casting – inspect for cracks, voids, and other potential flaws.
- Paint all exterior surfaces for a like new look.
- Professional performance assembly including;
 - Installation of a new DTE Series Two gear-set with a ratio of your choice from the following; 3.42, 3.73, 3.90. Or 4.10.
 - New differential bearings and races
 - New OE Heavy Duty Limited slip cone washers
 - New C6Z06 output shafts left and right
 - All new OE General Motors seals and gaskets
- Professional final inspection:
 - Bearing preloads
 - Gear contact pattern
 - Back lash
- Packaged complete and shipped insured to the address of your choice.
 - Two 1-Quart bottles of DTE approved synthetic differential oil included.

Available Options:

- OE replacement clutch pack \$262.38
- OE Carbon Clutch pack \$305.64
- Installation by Hoosier Performance Engineering \$450.00
- Calibration (required when changing ratios on automatic cars) Call for quote.

Exchange¹: Your differential can be built into your carrier or you can utilize our exchange program where we assemble your specs into one of our carriers. We will hold a \$750 core deposit pending you returning your differential assembly for inspection and refund.

Warranty²: Six Months

1. See core return policy pg. 27
2. See written warranty pg. 29

HOOSIER PERFORMANCE ENGINEERING'S STREET SERIES DIFFERENTIAL

C6 Street Series Stage 2: - Manual \$1850.00 w/exchange

Application:

- 2006-2010 C6 Corvette
- Manual Transmission

Street Series Stage 2 Package Includes:

- Complete disassembly of your differential and all internal components.
- A two part professional wash and a thorough inspection of all components.
- Bead blast all aluminum casting – inspect for cracks, voids, and other potential flaws.
- Paint all exterior surfaces for a like new look.
- Professional performance assembly including;
 - Installation of a new DTE Series Two gear-set with a ratio of your choice from the following; 3.42, 3.73, 3.90. Or 4.10.
 - New differential bearings and races
 - New OE Heavy Duty Limited slip cone washers
 - New OE Carbon Clutch Pack
 - All new OE General Motors seals and gaskets
- Professional final inspection:
 - Bearing preloads
 - Gear contact pattern
 - Back lash
- Packaged complete and shipped insured to the address of your choice.
 - Two 1-Quart bottles of DTE approved synthetic differential oil included.

Available Options:

- Installation by Hoosier Performance Engineering: \$450.00

Exchange¹: Your differential can be built into your carrier or you can utilize our exchange program where we assemble your specs into one of our carriers. We will hold an \$1800 core deposit pending you returning your differential assembly for inspection and refund.

Warranty²: Six Months

1. See core return policy pg. 27
2. See written warranty pg. 29

HOOSIER PERFORMANCE ENGINEERING'S STREET SERIES DIFFERENTIAL

C6 Street Series Stage 2: - A6 Automatic \$2450.00 w/exchange

Application:

- 2006-2010 C6 Corvette
- Automatic Transmission

Street Series Stage 2 Package Includes:

- Complete disassembly of your differential and all internal components.
- A two part professional wash and a thorough inspection of all components.
- Bead blast all aluminum casting – inspect for cracks, voids, and other potential flaws.
- Paint all exterior surfaces for a like new look.
- Professional performance assembly including;
 - Installation of a new DTE 30T Series One gear-set with a ratio of your choice from the following; 3.42, 3.73, 3.90, 4.10, Opt: GM Low Ratio Gear
 - New differential bearings and races
 - New OE Heavy Duty Limited slip cone washers
 - New OE Carbon Clutch Pack
 - All new OE General Motors seals and gaskets
- Professional final inspection:
 - Bearing preloads
 - Gear contact pattern
 - Back lash
- Packaged complete and shipped insured to the address of your choice.
 - Two 1-Quart bottles of DTE approved synthetic differential oil included.

Available Options:

- | | |
|--|-----------------|
| • Low Ratio Gearing (2.56, 2.73) | \$225.00 |
| • Low Ratio Gearing (3.15) | \$495.00 |
| • Installation by Hoosier Performance Engineering: | \$450.00 |
| • Re-Flash ECM (Required with ratio change) | Call for quote. |

Exchange¹: Your differential can be built into your carrier or you can utilize our exchange program where we assemble your specs into one of our carriers. We will hold an \$1800 core deposit pending you returning your differential assembly for inspection and refund.

Warranty²: Six Months

1. See core return policy pg. 27
2. See written warranty pg. 29

HOOSIER PERFORMANCE ENGINEERING'S SPORTSMAN SERIES DIFFERENTIALS

You have set a goal. You know exactly what you want and expect from your Corvette. You have spent countless hours doing the research, understanding what combinations of modifications and upgrades it's going to take to reach your goal. You have turned your goal into a plan and invested serious time and money purchasing, installing, rebuilding, and tuning your Corvette until finally you have reached your end goal. Your next goal, be it your weekend hobby or at the professional level, is to win!

At Hoosier Performance Engineering we have developed our Sportsman Series rear differential upgrade packages with you in mind. Our Sportsman differentials provide you with the confidence you need to utilize that power that without the fear of failing the one component often overlooked; your differential! Each of our Sportsman differentials are hand build after your order is received. Assembly of all the right components for your application takes place using a proven process that focuses on meticulous detail. Detail encompasses every component, every fastener, every seal and every aspect of the assembly process. Once the assembly is complete your carrier then undergoes a second fresh eyes inspection before being packaged and shipped insured to you or your installer.

Sportsman Products:

- Sportsman Series Stage 3: High performance street and moderate track use
- Sportsman Series Pro Stage 4: Ultra high performance street and track applications

Application:

- 1997-2004 C5 Corvette - Automatic or Manual Transmission
- 2006-2010 C6 Manual Corvette - Manual Transmission
- 2006-2010 C6 Corvette - A6 Automatic 6-Speed Transmission

Hoosier Performance Engineering's SPORTSMAN SERIES DIFFERENTIALS

C5 Sportsman Series Stage 3: \$2995.00 w/exchange.

Application:

- 1997-2004 C5 Corvette
- Automatic or Manual Transmission

Sportsman Series Stage 3 Package Includes:

- Complete disassembly of your differential and all internal components.
- A two part professional wash and a thorough inspection of all components.
- Bead blast all aluminum casting – inspect for cracks, voids, and other potential flaws.
- Paint all exterior surfaces for a like new look.
- Professional performance assembly including;
 - Installation of a new DTE Series Two gear-set with a ratio of your choice from the following; 3.42, 3.73, 3.90. Or 4.10.
 - New DTE Billet Pinion Bearing Support
 - New differential bearings and races
 - New OE GM carbon clutch packs including heavy duty cone washers
 - New DTE 4340-300M performance output shafts, left-side and right side.
 - All new OE GM seals and gaskets
- Professional final inspection:
 - Bearing preloads
 - Gear contact pattern
 - Back lash
- Packaged complete and shipped insured to the address of your choice.
 - Two 1-Quart bottles of DTE approved synthetic differential oil included.

Available options:

- DTE Series IV Gear-set \$300.00
- DTE Billet Aluminum Side Cover \$525.00
- Case modifications for cooler installation Call for Quote.
- Installation by Hoosier Performance Engineering:
\$450.00
- Calibration (required when changing ratios on automatic cars) Call for quote.

Exchange¹: Your differential can be built into your carrier or you can utilize our exchange program where we assemble your specs into one of our carriers. We will hold a \$750 core deposit pending you returning your differential assembly for inspection and refund.

Warranty²: Six Month

1. See core return policy pg. 27
2. See written warranty pg. 29

Hoosier Performance Engineering's SPORTMAN SERIES DIFFERENTIALS

C6 Sportsman Series Stage 3: Manual \$2595.00 w/exchange.

Application:

- 2006-2010 C6 Corvette
- Manual Transmission

Sportsman Series Stage 3 Package Includes:

- Complete disassembly of you differential and all internal components.
- A two part professional wash and a thorough inspection of all components.
- Bead blast all aluminum casting – inspect for cracks, voids, and other potential flaws.
- Paint all exterior surfaces for a like new look.
- Professional performance assembly including;
 - Installation of a new DTE 30T Series Two gear-set with a ratio of your choice from the following; 3.42, 3.73, 3.90. Or 4.10.
 - New DTE Billet Pinion Bearing Support
 - New differential bearings and races
 - New OE GM carbon clutch packs including heavy duty cone washers
 - New DTE 4340-300M performance output shafts, left-side and right side.
 - All new OE GM seals and gaskets
- Professional final inspection:
 - Bearing preloads
 - Gear contact pattern
 - Back lash
- Packaged complete and shipped insured to the address of your choice.
 - Two 1-Quart bottles of DTE approved synthetic differential oil included.

Available options:

- DTE Series IV Gear-set \$300.00
- Case modifications for cooler installation Call for Quote.
- Installation by Hoosier Performance Engineering: \$450.00

Exchange¹: Your differential can be built into your carrier or you can utilize our exchange program where we assemble your specs into one of our carriers. We will hold an \$1800 core deposit pending you returning your differential assembly for inspection and refund.

Warranty²: Six Month

1. See core return policy pg. 27
2. See written warranty pg. 29

HOOSIER PERFORMANCE ENGINEERING'S SPORTSMAN SERIES DIFFERENTIALS

C6 Sportsman Series Stage 3: A6 Automatic \$3395.00 w/exchange.

Application:

- 2006-2010 C6 Corvette
- Automatic Transmission

Sportsman Series Stage 3 Package Includes:

- Complete disassembly of your differential and all internal components.
- A two part professional wash and a thorough inspection of all components.
- Bead blast all aluminum casting – inspect for cracks, voids, and other potential flaws.
- Paint all exterior surfaces for a like new look.
- Professional performance assembly including;
 - Installation of a new DTE 30T Series One gear-set with a ratio of your choice from the following; 3.42, 3.73, 3.90, 4.10, Opt: GM Low Ratio Gear
 - New DTE Billet Pinion Bearing Support
 - New differential bearings and races
 - New OE GM carbon clutch packs including heavy duty cone washers
 - New DTE 4340-300M performance output shafts, left-side and right side.
 - All new OE GM seals and gaskets
- Professional final inspection:
 - Bearing preloads
 - Gear contact pattern
 - Back lash
- Packaged complete and shipped insured to the address of your choice.
 - Two 1-Quart bottles of DTE approved synthetic differential oil included.

Available options:

- Low Ratio Gearing (2.56, 2.73) \$225.00
- Low Ratio Gearing (3.15) \$495.00
- DTE Series IV Gear-set \$300.00
- Case modifications for cooler installation Call for Quote.
- Installation by Hoosier Performance Engineering: \$450.00
- Re-Flash ECM (Required with ratio change) Call for quote.

Exchange¹: Your differential can be built into your carrier or you can utilize our exchange program where we assemble your specs into one of our carriers. We will hold an \$1800 core deposit pending you returning your differential assembly for inspection and refund.

Warranty²: Six Month

1. See core return policy pg. 27
2. See written warranty pg. 29

HOOSIER PERFORMANCE ENGINEERING'S SPORTSMAN SERIES DIFFERENTIALS

C5 Sportsman Series – Pro Stage 4: \$4,295.00 w/exchange.

Application:

- 1997-2004 C5 Corvette
- Automatic or Manual Transmission

Sportsman Series Stage 4 Package Includes:

- Complete disassembly of your differential and all internal components.
- A two part professional wash and a thorough inspection of all components.
- Bead blast all aluminum casting – inspect for cracks, voids, and other potential flaws.
- Paint all exterior surfaces for a like new look.
- Professional performance assembly including;
 - Installation of a new DTE Series V gear-set with a ratio of your choice from the following; 3.42, 3.73, 3.90. Or 4.10.
 - New DTE Billet Pinion Bearing Support
 - New differential bearings and races
 - New Quaife® performance wheel differential
 - New DTE 4340-300M (Q) performance output shafts, left-side and right side.
 - All new OE GM seals and gaskets
- Professional final inspection:
 - Bearing preloads
 - Gear contact pattern
 - Back lash
- Packaged complete and shipped insured to the address of your choice.
 - Two 1-Quart bottles of DTE approved synthetic differential oil included.

Available options:

- DTE Billet Aluminum Side Cover; \$525.00
- Case modifications for cooling; Quote.
- Installation by Hoosier Performance Engineering: \$450.00
- Calibration (required when changing ratios on automatic cars) Call for quote.

Exchange¹: Your differential can be built into your carrier or you can utilize our exchange program where we assemble your specs into one of our carriers. We will hold a \$750 core deposit pending you returning your differential assembly for inspection and refund.

Warranty²: Six Months

1. See core return policy pg. 27
2. See written warranty pg. 29

HOOSIER PERFORMANCE ENGINEERING'S SPORTSMAN SERIES DIFFERENTIALS

C6 Sportsman Series – Pro Stage 4: Manual \$3995.00 w/exchange.

Application:

- 2006-2010 C6 Corvette
- Manual Transmission

Sportsman Series Stage 4 Package Includes:

- Complete disassembly of your differential and all internal components.
- A two part professional wash and a thorough inspection of all components.
- Bead blast all aluminum casting – inspect for cracks, voids, and other potential flaws.
- Paint all exterior surfaces for a like new look.
- Professional performance assembly including;
 - Installation of a new DTE Series V gear-set with a ratio of your choice from the following; 3.42, 3.73, 3.90. Or 4.10.
 - New DTE Billet Pinion Bearing Support
 - New differential bearings and races
 - New Quaife® performance wheel differential
 - New DTE 4340-300M (Q) performance output shafts, left-side and right side.
 - All new OE GM seals and gaskets
- Professional final inspection:
 - Bearing preloads
 - Gear contact pattern
 - Back lash
- Packaged complete and shipped insured to the address of your choice.
 - Two 1-Quart bottles of DTE approved synthetic differential oil included.

Available options:

- Case modifications for cooling; Call for Quote.
- Installation by Hoosier Performance Engineering: \$450.00

Exchange¹: Your differential can be built into your carrier or you can utilize our exchange program where we assemble your specs into one of our carriers. We will hold an \$1800 core deposit pending you returning your differential assembly for inspection and refund.

Warranty²: Six Months

1. See core return policy pg. 27
2. See written warranty pg. 29

HOOSIER PERFORMANCE ENGINEERING'S SPORTMAN SERIES DIFFERENTIALS

C6 Sportsman Series – Pro Stage 4: A6 Automatic \$4595.00 w/exchange.

Application:

- 2006-2010 C6 Corvette - Automatic Transmission

Sportsman Series Stage 4 Package Includes:

- Complete disassembly of your differential and all internal components.
- A two part professional wash and a thorough inspection of all components.
- Bead blast all aluminum casting – inspect for cracks, voids, and other potential flaws.
- Paint all exterior surfaces for a like new look.
- Professional performance assembly including;
- Professional performance assembly including;
 - Installation of a new DTE 30T Series One gear-set with a ratio of your choice from the following; 3.42, 3.73, 3.90, 4.10, Opt: GM Low Ratio Gear
 - New DTE Billet Pinion Bearing Support
 - New differential bearings and races
 - New Quaife® performance wheel differential
 - New DTE 4340-300M (Q) performance output shafts, left-side and right side.
 - All new OE GM seals and gaskets
- Professional final inspection:
 - Bearing preloads
 - Gear contact pattern
 - Back lash
- Packaged complete and shipped insured to the address of your choice.
 - Two 1-Quart bottles of DTE approved synthetic differential oil included.

Available options:

- Low Ratio Gearing (2.56, 2.73) \$225.00
- Low Ratio Gearing (3.15) \$495.00
- Case modifications for cooling; Call for Quote.
- Installation by Hoosier Performance Engineering: \$450.00
- Re-Flash ECM (Required with ratio change) Call for quote.

Exchange¹: Your differential can be built into your carrier or you can utilize our exchange program where we assemble your specs into one of our carriers. We will hold an \$1800 core deposit pending you returning your differential assembly for inspection and refund.

Warranty²: Six Months

1. See core return policy pg. 27
2. See written warranty pg. 29

HOOSIER PERFORMANCE ENGINEERING

Policies

Shipping Policy: Hoosier Performance Engineering currently utilizes Fed-Ex ground for the majority of our shipping and as a result we are able to quote a standard price of \$115.00 for most differentials that are shipped standard ground within the contiguous 48 states. Additional charges may be incurred for Express, shipping outside of the 48 states, and the request to use an alternate carrier. Unless previous arrangements have been made with Hoosier Performance Engineering at the time an order is placed, the customer will be responsible for any additional fees or expense.

Pricing Policy: All pricing reflected in this catalog are subject to change. Prices listed here are for our standard packages that are utilizing standard assembly and installation. Any deviation from the standard packages will require a written quote from Hoosier Performance Engineering prior to placing your order.

Deposits: Because Hoosier Performance Engineering custom builds each differential after a specific order has been placed we require 50% of the product cost as down payment when your order is placed.

Hoosier Performance Engineering

Core Return Policy

1.0 PURPOSE: In order to control cost and provide an affordable product to our customers Hoosier Performance Engineering utilizes exchange carriers and components where ever feasible when building our differentials. As such we have established this policy to clearly communicate our expectations when utilizing our exchange program. This policy also defines what you the customer can expect from us throughout the exchange process.

2.0 RETURNING YOUR CORE: This section covers when your core return is expected, how you core should be returned, and transfer of responsibility.

2.1 WINDOW OF RETURN: Hoosier Performance Engineering allows 21 calendar days from date of shipment from our facility to have for your core to be returned to Hoosier Performance Engineering at the address provided. Arrangements can be made on an individual basis provided they are submitted to Hoosier Performance Engineering within the 30 day window provided. Failure to return your core or notify us within the 30 day will result in forfeiting your core deposit.

2.2 SHIPPMENT OF CORE: The expense of shipping the core back to Hoosier Performance Engineering is the responsibility of the customer. Packaging, protecting, insuring, and choosing the carrier is also the responsibility of the customer. Hoosier Performance Engineering recommends that you utilize the same packaging that you received your new differential in as this container is specifically designed for differential shipment. At your request Hoosier Performance Engineering will supply you with a new shipping container for a nominal fee along with instructions and guidelines for preparing and shipping your differential. Hoosier Performance Engineering staff is always available to provide guidance, answer questions or help in choosing the carrier so feel free to call at any time during this process.

2.3 TRANSFER OF RESPONSIBILITY: Hoosier Performance Engineering will take ownership of your core when it arrives at our facility. The condition of your core will be determined at the time of receiving and unpacking your core. Any damages or shortages that occur during transit will be the responsibility of the customer to resolve with the carrier. We strongly recommend documenting the condition of your core prior to packing and shipping.

3.0 CONDITION OF CORE: The amount of deposit that is returned to you is determined by the condition of your core when it arrives at Hoosier Performance Engineering's facility. In order for Hoosier Performance Engineering to refund the full amount of your deposit the core returned to us must be in good condition and meet what we define as "Normal Wear and Tear."

3.1 NORMAL WEAR AND TEAR: Normal wear and tear is defined as all hard parts that make up the differential assembly will be acceptable for reuse after cleaning and inspection. Hard parts are normally considered to be all aluminum castings, all steel castings, limited slip differential gearing, all stamped covers and housings, and that all fasteners, vents, and tags are present in the core.

3.2 EXPECTED WEAR COMPONENTS: Expected wear components within a differential include, but are not limited to; the gear-set, seals, bearings, clutch pack cone washers, and limited slip clutch pack wear surfaces. Damage or excessive wear to these components will not be deducted from your core deposit.

3.3 EXCESSIVE WEAR OF HARD PARTS: Any component that is considered a hard part that show signs of excessive wear, cracking, scoring, pitting, or other damage will result in a charge for that part being deducted from your core deposit. Hoosier Performance Engineering will photograph and document all components that result in an additional charge and will provide all supporting documentation customer. The customer has the right to have any or all of these parts returned to them at their own expense.

4.0 REFUNDING YOUR CORE DEPOSIT: Hoosier Performance Engineering will issue the customer a check through the USPS within 20 days of receiving your core at our facility.

4.1 NOTIFICATION: Hoosier Performance Engineering will notify the customer via email when we have received your core and when our 20 window will expire. Accordingly we will also provide you, via email, the condition of your core after our inspection and the amount of your deposit that will be refunded.

4.2 EXTENSIONS: As with any business transaction periodically circumstances arise that may delay getting your refund back to you. If such delays do occur Hoosier Performance Engineering must notify you in writing our 20 day window. Should Hoosier Performance Engineering fail to provide the proper notification within the described window the customer will be entitled to collect interest on their deposit at the rate of 12% APR calculated at 1.0% monthly. It is the responsibility of the customer to request payment of this interest should DTE fail to issue a refund within the 20 day window or should DTE fail to request an extension.

Hoosier Performance Engineering

Limited Warranty for reconditioned and/or assembled drivetrain components.

- 1.0 **Hoosier Performance Engineering Written Warranty:** Hoosier Performance Engineering, a DTEP. Inc. company warrants any reconditioned, rebuilt, or repaired drivetrain component to be free of defects in material and workmanship for the published time period of that individual component. The warranty will begin when a) the customer or customer's agent receives the component from Hoosier Performance Engineering at the advised shipping address or b) the customer takes delivery of their vehicle from Hoosier Performance Engineering's service department.
- 2.0 **Exceptions To Our Limited Warranty:** The following are exceptions to the period of coverage stated above;
 - 2.1 Normal gear noise resulting from hypoid gear mesh will be warranted for 30 days. This exception does not include differential "noise" generated by the differential.
 - 2.2 Aftermarket components utilized by Hoosier Performance Engineering in the assembly or reconditioning of any driveline component, but not produced by Hoosier Performance Engineering will be covered under the Hoosier Performance Engineering's warranty for the time period stated.
 - 2.2.1 If the written warranty is greater in time and/or mileage than Hoosier Performance Engineering's warranty it will not constitute an extension of Hoosier Performance Engineering's Warranty.
 - 2.2.2 If the stated aftermarket component fails outside of Hoosier Performance Engineering's written warranty period that warranty will prevail. Any cost associated with that component failure including but not limited to, labor, towing fees, other parts, vehicle down time, will be the responsibility of the customer.
 - 2.3 If the Hoosier Performance Engineering's component is installed by a third party any failure, leakage, or performance concerns associated with the installation are the responsibility of the third party installer.
- 3.0 **Conditions voiding this warranty.**

- 3.1 When installed in a vehicle that is not registered for use on public highways in a vehicle that does not meet the minimum requirements to obtain a registration for operation on public highways.
- 3.2 Any failure that is the result of a shock load event or series of events.
- 3.3 Any failure that is the result of an overloaded condition or use in a non-approved application.
- 3.4 Premature failure that has resulted from one or more of the following conditions:
 - 3.4.1 Overheating.
 - 3.4.2 Use of an unapproved differential lubricant.
 - 3.4.3 Inadequate or low lubricant levels.
 - 3.4.4 Installation in any motor vehicle other than a Corvette (unless otherwise pre-approved by Hoosier Performance Engineering).
- 3.5 Any repairs performed by any unauthorized person or persons to any Hoosier Performance Engineering component while still in the warranty period.

4.0 Other.

- 4.1 Warranty coverage is not assumed until the drivetrain component has been received and inspected by Hoosier Performance Engineering or its affiliates.
- 4.2 The customer is responsible for any cost associated with removal, installation, shipping and receiving of any Hoosier Performance Engineering's drivetrain components unless Hoosier Performance Engineering also acted as the installer.
- 4.3 Warranty coverage is limited to repair and/or replacement of the Hoosier Performance Engineering drivetrain component. This warranty does not cover vehicle towing, lodging, loss of use, or any other cost, property loss, injury, or death that is assumed related to any Hoosier Performance Engineering's components, component parts, labor, officers, employees or affiliates.