



SUI WRX STi DROP GEARS

OVERVIEW

**OF ALL STRONGER TRANSFER GEAR SET
FOR SUBARU 6MT TY856 GEARBOX**

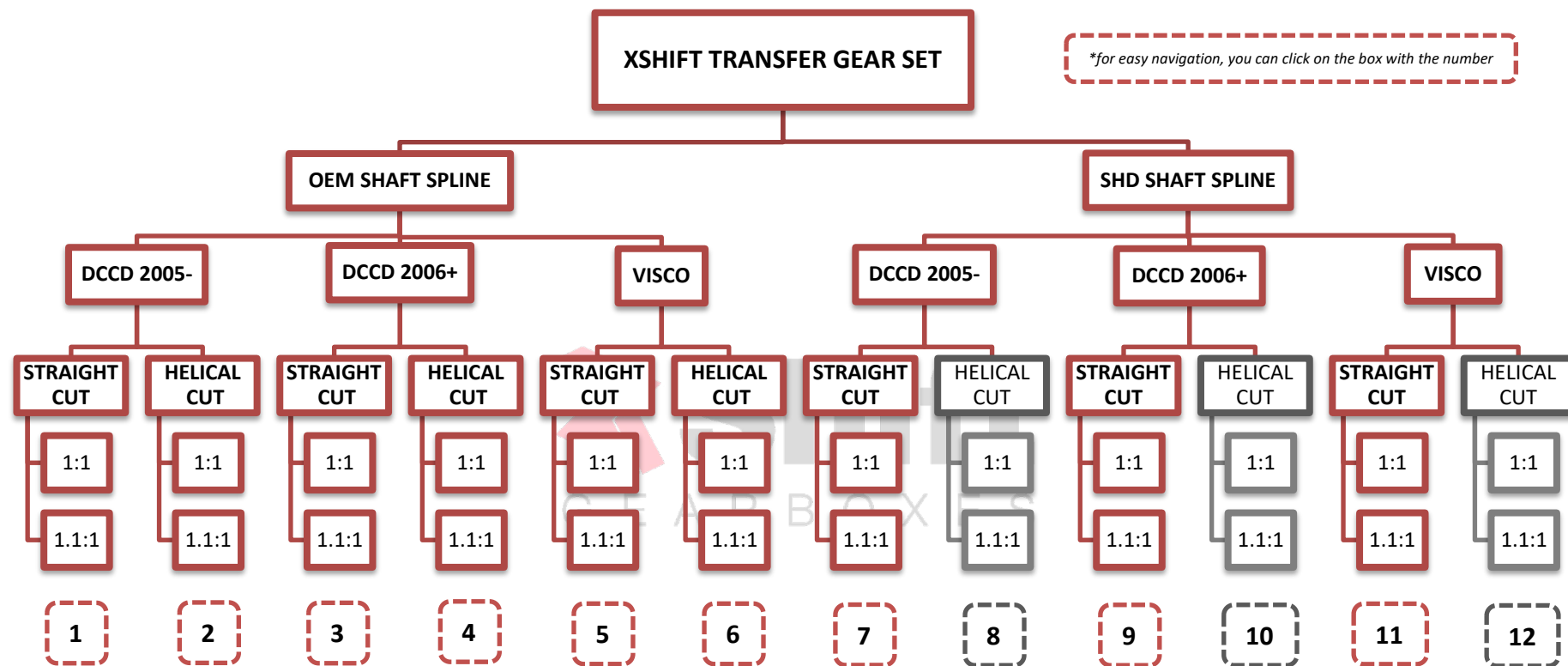


„What are the advantages of removable gear wheels?“

- *change gears depending on the rear differential ratio*
- *easy to replace when worn*
- *reduce service costs - save your money*

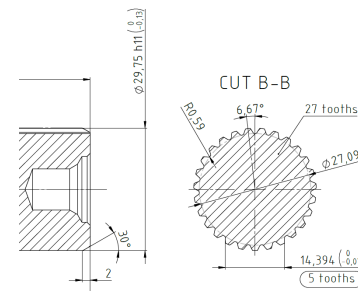


TRANSFER GEAR SET: COMPLETE OVERVIEW



SHD SHAFT SPLINE – general info

- Non-standard 27 tooth spline from POWER GLIDE Chevrolet gearbox
- recommended in combination with **straight cut gears**
- yokes can be supplied by the Driveshaftshop – USA
- assembly requires **rear housing modification** – more info on page 9



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1 TRANSFER GEAR SET → OEM SHAFT SPLINE → DCCD 2005- → STRAIGHT CUT



TRANSFER GEAR SET: straight cut teeth		2005-	1:1
Part number	Part name		
1081-052a	input shaft (DCCD 2005-)		
1081-053-1919	input gear (ratio 1:1)		
1081-054	output shaft (OEM spline)		
1081-055-1919	output gear (ratio 1:1)		
1081-056	nut (uni)		

TRANSFER GEAR SET: straight cut teeth		2005-	1.1:1
Part number	Part name		
1081-052a	input shaft (DCCD 2005-)		
1081-053-2022	input gear (ratio 1:1.1)		
1081-054	output shaft (OEM spline)		
1081-055-2022	output gear (ratio 1.1:1)		
1081-056	nut (uni)		

2 TRANSFER GEAR SET → OEM SHAFT SPLINE → DCCD 2005- → HELICAL CUT



TRANSFER GEAR SET: helical cut teeth		2005-	1:1
Part number	Part name		
1081-052a	input shaft (DCCD 2005-)		
1081-053b-1919	input gear (ratio 1:1)		
1081-054	output shaft (OEM spline)		
1081-055b-1919	output gear (ratio 1:1)		
1081-056	nut (uni)		

TRANSFER GEAR SET: helical cut teeth		2005-	1.1:1
Part number	Part name		
1081-052a	input shaft (DCCD 2005-)		
1081-053b-2022	input gear (ratio 1:1.1)		
1081-054	output shaft (OEM spline)		
1081-055b-2022	output gear (ratio 1.1:1)		
1081-056	nut (uni)		

3 TRANSFER GEAR SET → OEM SHAFT SPLINE → DCCD 2006+ → STRAIGHT CUT



TRANSFER GEAR SET: straight cut teeth		2006+	1:1
Part number	Part name		
1081-052b	input shaft (DCCD 2006+)		
1081-053-1919	input gear (ratio 1:1)		
1081-054	output shaft (OEM spline)		
1081-055-1919	output gear (ratio 1:1)		
1081-056	nut (uni)		

TRANSFER GEAR SET: straight cut teeth		2006+	1.1:1
Part number	Part name		
1081-052b	input shaft (DCCD 2006+)		
1081-053-2022	input gear (ratio 1:1.1)		
1081-054	output shaft (OEM spline)		
1081-055-2022	output gear (ratio 1.1:1)		
1081-056	nut (uni)		

4 TRANSFER GEAR SET → OEM SHAFT SPLINE → DCCD 2006+ → HELICAL CUT



TRANSFER GEAR SET: helical cut teeth		2006+	1:1
Part number	Part name		
1081-052b	input shaft (DCCD 2006+)		
1081-053b-1919	input gear (ratio 1:1)		
1081-054	output shaft (OEM spline)		
1081-055b-1919	output gear (ratio 1:1)		
1081-056	nut (uni)		

TRANSFER GEAR SET: helical cut teeth		2006+	1.1:1
Part number	Part name		
1081-052b	input shaft (DCCD 2006+)		
1081-053b-2022	input gear (ratio 1:1.1)		
1081-054	output shaft (OEM spline)		
1081-055b-2022	output gear (ratio 1.1:1)		
1081-056	nut (uni)		

5 TRANSFER GEAR SET → OEM SHAFT SPLINE → VISCO → STRAIGHT CUT



TRANSFER GEAR SET: straight cut teeth		VISCO	1:1
Part number	Part name		
1081-052c	input shaft (VISCO-NON/DCCD)		
1081-053-1919	input gear (ratio 1:1)		
1081-054	output shaft (OEM spline)		
1081-055-1919	output gear (ratio 1:1)		
1081-056	nut (uni)		

TRANSFER GEAR SET: straight cut teeth		VISCO	1.1:1
Part number	Part name		
1081-052c	input shaft (VISCO-NON/DCCD)		
1081-053-2022	input gear (ratio 1:1.1)		
1081-054	output shaft (OEM spline)		
1081-055-2022	output gear (ratio 1.1:1)		
1081-056	nut (uni)		

6 TRANSFER GEAR SET → OEM SHAFT SPLINE → VISCO → HELICAL CUT



TRANSFER GEAR SET: straight cut teeth		VISCO	1:1
Part number	Part name		
1081-052c	input shaft (VISCO-NON/DCCD)		
1081-053b-1919	input gear (ratio 1:1)		
1081-054	output shaft (OEM spline)		
1081-055b-1919	output gear (ratio 1:1)		
1081-056	nut (uni)		

TRANSFER GEAR SET: straight cut teeth		VISCO	1.1:1
Part number	Part name		
1081-052c	input shaft (VISCO-NON/DCCD)		
1081-053b-2022	input gear (ratio 1:1.1)		
1081-054	output shaft (OEM spline)		
1081-055b-2022	output gear (ratio 1.1:1)		
1081-056	nut (uni)		

SHD SHAFT SPLINE: GENERAL INFO

The “Super-Heavy-Duty” output shaft design was created to meet the needs of **drag racers**, and is recommended for **1000+Nm applications**, where the OEM spline can reach its limits and unwanted twisting can occur. This type in particular has a maximized overall output diameter and an increased number of each spline grooves, which dramatically increases torsion and impact strength, in compare with OEM solution.

⚠ The counterpart is a **GM 27 Powerglide spline slip yoke**, which US company **Driveshaftshop.com** can supply. It is recommended to combine it with a 3-inch carbon driveshaft also from this company, and have the whole solution as one unit.

⚠ Fitting this type requires several modifications to the rear tail housing!

⚠ These adjustments are usually made by the customer themselves! Customer need to:

- Machine the tail housing - for standard Powerglide tail housing bushings/bearings 2x in-line
- Drill two holes for oil, to get the correct length
- The shaft seal used should be in dimension **50x38x10**



7 TRANSFER GEAR SET → SHD SHAFT SPLINE → DCCD 2005- → STRAIGHT CUT



TRANSFER GEAR SET: straight cut teeth		2005-	1:1
Part number	Part name		
1081-052a	input shaft (DCCD 2005-)		
1081-053-1919	input gear (ratio 1:1)		
1081-054	output shaft (SHD spline)		
1081-055-1919	output gear (ratio 1:1)		
1081-056	nut (uni)		

TRANSFER GEAR SET: straight cut teeth		2005-	1.1:1
Part number	Part name		
1081-052a	input shaft (DCCD 2005-)		
1081-053-2022	input gear (ratio 1:1.1)		
1081-054	output shaft (SHD spline)		
1081-055-2022	output gear (ratio 1.1:1)		
1081-056	nut (uni)		

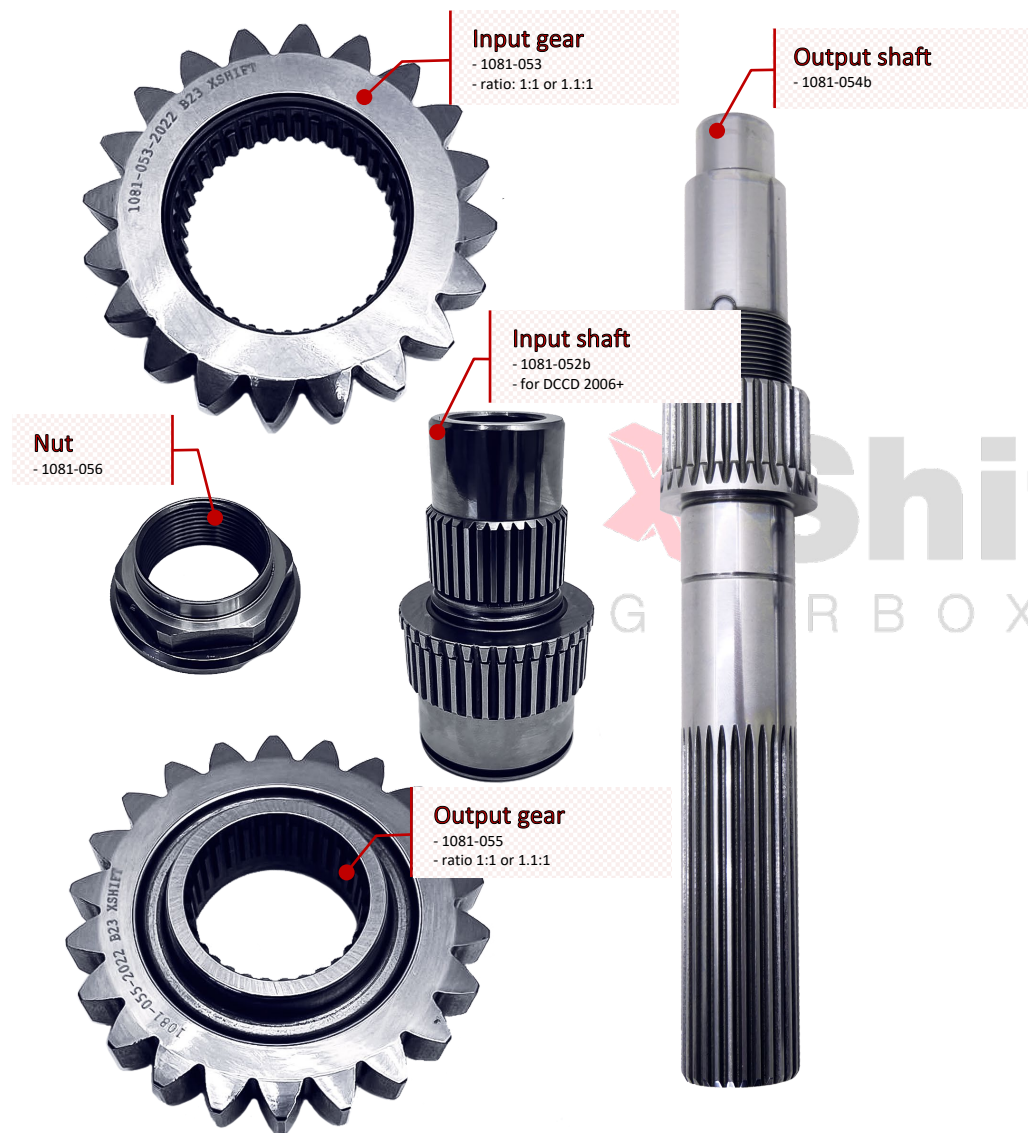
8 TRANSFER GEAR SET → SHD SHAFT SPLINE → DCCD 2005- → HELICAL CUT



TRANSFER GEAR SET: helical cut teeth		2005-	1:1
Part number	Part name		
1081-052a	input shaft (DCCD 2005-)		
1081-053b-1919	input gear (ratio 1:1)		
1081-054b	output shaft (SHD spline)		
1081-055b-1919	output gear (ratio 1:1)		
1081-056	nut (uni)		

TRANSFER GEAR SET: helical cut teeth		2005-	1.1:1
Part number	Part name		
1081-052a	input shaft (DCCD 2005-)		
1081-053b-2022	input gear (ratio 1:1.1)		
1081-054b	output shaft (SHD spline)		
1081-055b-2022	output gear (ratio 1.1:1)		
1081-056	nut (uni)		

9 TRANSFER GEAR SET → SHD SHAFT SPLINE → DCCD 2006+ → STRAIGHT CUT



TRANSFER GEAR SET: straight cut teeth		2006+	1:1
Part number	Part name		
1081-052b	input shaft (DCCD 2006+)		
1081-053-1919	input gear (ratio 1:1)		
1081-054b	output shaft (SHD spline)		
1081-055-1919	output gear (ratio 1:1)		
1081-056	nut (uni)		

TRANSFER GEAR SET: straight cut teeth		2006+	1.1:1
Part number	Part name		
1081-052b	input shaft (DCCD 2006+)		
1081-053-2022	input gear (ratio 1:1.1)		
1081-054b	output shaft (SHD spline)		
1081-055-2022	output gear (ratio 1.1:1)		
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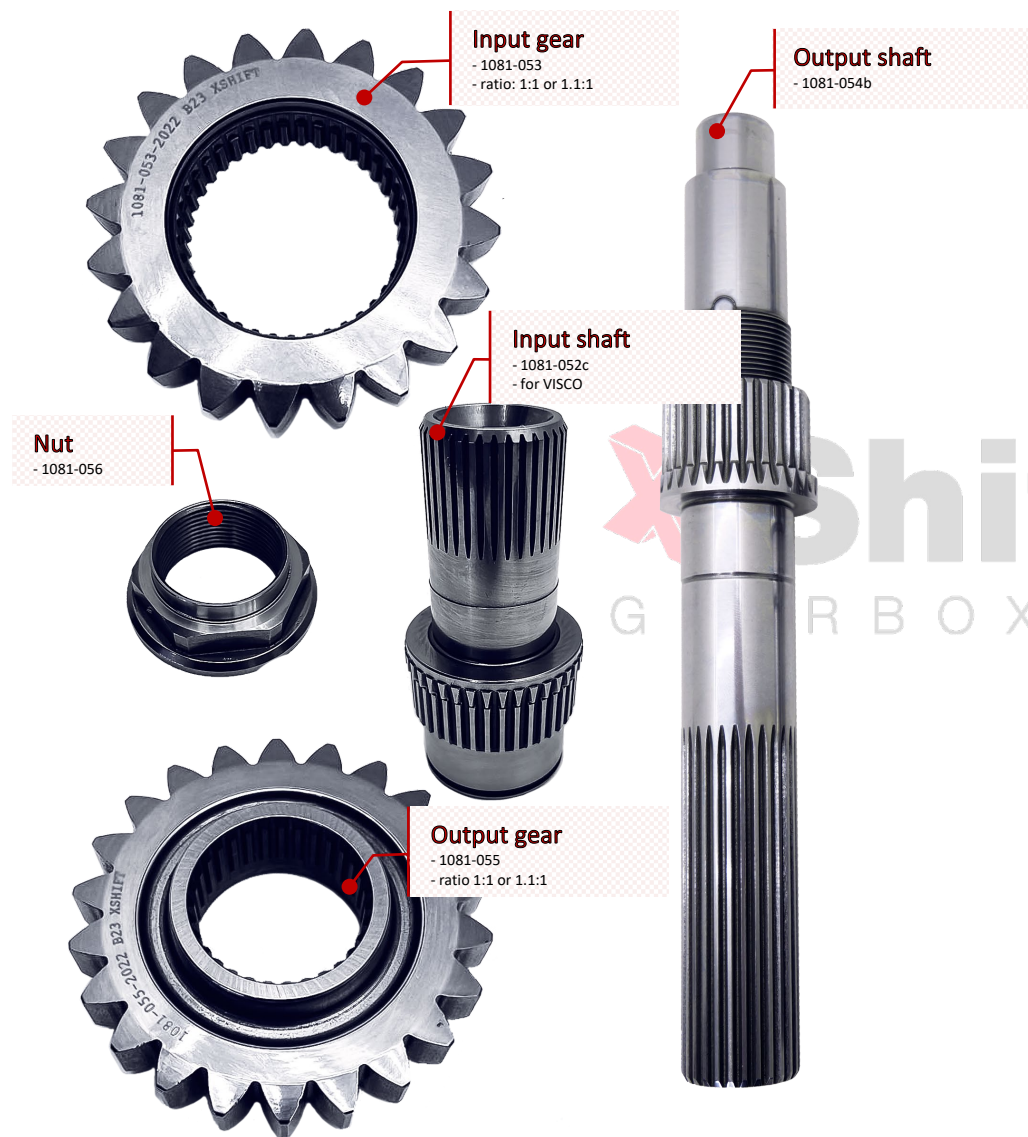
10 TRANSFER GEAR SET → SHD SHAFT SPLINE → DCCD 2006+ → HELICAL CUT



TRANSFER GEAR SET: helical cut teeth		2006+	1:1
Part number	Part name		
1081-052b	input shaft (DCCD 2006+)		
1081-053b-1919	input gear (ratio 1:1)		
1081-054b	output shaft (SHD spline)		
1081-055b-1919	output gear (ratio 1:1)		
1081-056	nut (uni)		

TRANSFER GEAR SET: helical cut teeth		2006+	1.1:1
Part number	Part name		
1081-052b	input shaft (DCCD 2006+)		
1081-053b-2022	input gear (ratio 1:1.1)		
1081-054b	output shaft (SHD spline)		
1081-055b-2022	output gear (ratio 1.1:1)		
1081-056	nut (uni)		

11 TRANSFER GEAR SET → SHD SHAFT SPLINE → VISCO → STRAIGHT CUT



TRANSFER GEAR SET: straight cut teeth		VISCO	1:1
Part number	Part name		
1081-052c	input shaft (VISCO-NON/DCCD)		
1081-053-1919	input gear (ratio 1:1)		
1081-054b	output shaft (SHD spline)		
1081-055-1919	output gear (ratio 1:1)		
1081-056	nut (uni)		

TRANSFER GEAR SET: straight cut teeth		VISCO	1.1:1
Part number	Part name		
1081-052c	input shaft (VISCO-NON/DCCD)		
1081-053-2022	input gear (ratio 1:1.1)		
1081-054b	output shaft (SHD spline)		
1081-055-2022	output gear (ratio 1.1:1)		
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12 TRANSFER GEAR SET → SHD SHAFT SPLINE → VISCO → HELICAL CUT



TRANSFER GEAR SET: straight cut teeth		VISCO	1:1
Part number	Part name		
1081-052c	input shaft (VISCO-NON/DCCD)		
1081-053b-1919	input gear (ratio 1:1)		
1081-054b	output shaft (SHD spline)		
1081-055b-1919	output gear (ratio 1:1)		
1081-056	nut (uni)		

TRANSFER GEAR SET: straight cut teeth		VISCO	1.1:1
Part number	Part name		
1081-052c	input shaft (VISCO-NON/DCCD)		
1081-053b-2022	input gear (ratio 1:1.1)		
1081-054b	output shaft (SHD spline)		
1081-055b-2022	output gear (ratio 1.1:1)		
1081-056	nut (uni)		

13 SUBARU TY856: CENTER DIFFERENTIAL OVERVIEW

