

Chassis	Years	Model	ASx?	Ratio	Case Size	Gear Size	Housing	Rear Cover	Carrier	Axle flange	Axle shaft	Prop flange	Flex disc	Prop Flange	Flex Disc	Notes
201.034	1987	190E-16	LSD	3.27	1.1L	185mm	124-351-06-05	124-351-06-08	124-350-93-23	124-350-55-45	201-350-81-10	211-350-00-45	202-410-13-15	3 bolt		From VIN #F205611
124.133/193	1987	300D/TD	No	2.65	1.1L	185mm	124-351-06-05	124-351-25-08	124-350-83-23	208-350-01-45	129-350-40-10	126-350-14-45	126-410-04-15	3 bolt	100mm	(new axle 210-350-84-10)
124.036	1992-94	E500	ASR	2.82	1.3L	210mm	129-351-05-05	129-351-16-08	126-350-09-23	126-350-19-45	124-350-87-10	126-350-16-45	129-410-01-15	4 bolt	110mm	
123.133	1982-84	300D	N/A	3.07		185mm	123-350-22-20	115-351-32-08	124-350-63-23	124-350-35-45	123-350-04-10	211-350-00-45	126-410-02-15	3-bolt		
123.153	1982-84	300CD	N/A	3.07		185mm	123-350-22-20	115-351-32-08	124-350-63-23	124-350-35-45	123-350-04-10	211-350-00-45	126-410-02-15	3-bolt		
123.193	1982-84	300TD	N/A	3.07		185mm	123-350-22-20	115-351-32-08	124-350-63-23	124-350-35-45	123-350-04-10	211-350-00-45	126-410-02-15	3-bolt		
123.133	1985	300D	N/A	2.88		185mm	123-350-22-20	115-351-32-08	124-350-64-23	124-350-35-45	123-350-04-10	211-350-00-45	126-410-02-15	3-bolt		
123.153	1985	300CD	N/A	2.88		185mm	123-350-22-20	115-351-32-08	124-350-64-23	124-350-35-45	123-350-04-10	211-350-00-45	126-410-02-15	3-bolt		
123.193	1985	300TD	N/A	2.88		185mm	123-350-22-20	115-351-32-08	124-350-64-23	124-350-35-45	123-350-04-10	211-350-00-45	126-410-02-15	3-bolt		
123.130	197x-81	300D	N/A	3.46		185mm	123-350-22-20	115-351-32-08	124-350-69-23	124-350-56-45	123-350-04-10	211-350-00-45	123-410-00-15	3-bolt		As of VIN A176782
123.150	197x-81	300CD	N/A													
123.190	197x-81	300TD	N/A													

Chassis	Years	Model	ASx?	Ratio	Size	Housing	Rear Cover	Carrier	Axle flange	Axle shaft	Prop flange	Flex disc	Notes
201.034	1987	190E-16	LSD	3.27	185mm	124-351-06-05	124-351-06-08	124-350-93-23	124-350-55-45	201-350-81-10	211-350-00-45	202-410-13-15	From VIN #F205611
124.133/193	1987	300D/TD	No	2.65	185mm	124-351-06-05	124-351-25-08	124-350-83-23	208-350-01-45	129-350-40-10	126-350-14-45	126-410-04-15	(new axle 210-350-84-10)
124.036	1992-94	E500	ASR	2.82	210mm	129-351-05-05	129-351-16-08	126-350-09-23	126-350-19-45	124-350-87-10	126-350-16-45	129-410-01-15	
124.026	1987-89	260E	No	3.27	185mm	124-351-06-05	124-351-25-08	124-350-63-23	208-350-01-45	129-350-40-10	211-350-00-45	202-410-13-15	(new axle 210-350-84-10)
124.026	1990-91	260E	No	3.07	185mm	124-351-06-05	124-351-25-08	124-350-63-23	208-350-01-45	129-350-40-10	211-350-00-45	202-410-13-15	
124.026	1992	260E	No	2.87	185mm	124-351-06-05	124-351-25-08	124-350-64-23	208-350-01-45	129-350-40-10	211-350-00-45	202-410-13-15	
124.026	1990-91	260E	ASR	3.07	185mm	124-351-07-05	124-351-25-08	124-350-63-23	124-350-61-45	129-350-41-10	211-350-00-45	202-410-13-15	
124.026	1992	260E	ASR	2.87	185mm	124-351-07-05	124-351-25-08	124-350-64-23	124-350-61-45	129-350-41-10	211-350-00-45	202-410-13-15	
124.030	1986-89	300E	No	3.07	185mm	124-351-06-05	124-351-25-08	124-350-63-23	208-350-01-45	129-350-40-10	211-350-00-45	202-410-13-15	From VIN #A203047
124.030	1990-92	300E	No	2.87	185mm	124-351-06-05	124-351-25-08	124-350-64-23	208-350-01-45	129-350-40-10	211-350-00-45	202-410-13-15	
124.030	1990-92	300E	ASR	2.87	185mm	124-351-07-05	124-351-25-08	124-350-64-23	124-350-61-45	129-350-41-10	211-350-00-45	202-410-13-15	
124.028/032/092	1993-95	E320/E280	No	2.65	210mm	129-351-04-05	124-351-34-08	126-350-09-23	129-350-08-45	129-350-38-10	211-350-01-45	210-410-08-15	
124.028/032/092	1993-95	E320/E280	ASR	2.65	210mm	129-351-05-05	124-351-34-08	126-350-09-23	129-350-09-45	129-350-41-10	211-350-01-45	210-410-08-15	
124.034	1992-95	E420 USA	No	2.24	210mm	129-351-04-05	129-351-16-08	126-350-34-23	126-350-18-45	129-350-27-10	126-350-16-45	129-410-01-15	
124.034	1992-95	E420 USA	ASR	2.24	210mm	129-351-05-05	129-351-16-08	126-350-34-23	126-350-19-45	124-350-87-10	126-350-16-45	129-410-01-15	
124.034	1992-95	E420 Euro	No	2.65	210mm	129-351-04-05	129-351-16-08	126-350-09-23	126-350-18-45	129-350-27-10	126-350-16-45	129-410-01-15	
124.034	1992-95	E420 Euro	ASR	2.65	210mm	129-351-05-05	129-351-16-08	126-350-09-23	126-350-19-45	124-350-87-10	126-350-16-45	129-410-01-15	
124.036	1992-94	E500	ASR	2.82	210mm	129-351-05-05	129-351-16-08	126-350-09-23	126-350-19-45	124-350-87-10	126-350-16-45	129-410-01-15	
124.050	1988-89	300CE	No	3.07	185mm	124-351-06-05	124-351-25-08	124-350-63-23	208-350-01-45	129-350-40-10	211-350-00-45	202-410-13-15	(new axle 210-350-84-10)
124.051	1990	300CE	No	3.27	210mm	129-351-04-05	124-351-34-08	140-350-27-23	129-350-08-45	129-350-38-10	211-350-01-45	210-410-08-15	
124.051	1991-92	300CE	No	3.06	210mm	129-351-04-05	124-351-34-08	126-350-09-23	129-350-08-45	129-350-38-10	211-350-01-45	210-410-08-15	
124.051	1990	300CE	ASR	3.27	210mm	129-351-05-05	124-351-34-08	140-350-27-23	129-350-09-45	129-350-41-10	211-350-01-45	210-410-08-15	
124.051	1991-92	300CE	ASR	3.06	210mm	129-351-05-05	124-351-34-08	126-350-09-23	129-350-09-45	129-350-41-10	211-350-01-45	210-410-08-15	
124.052/066	1993-95	Cpe/Cabrio	No	2.65	210mm	129-351-04-05	124-351-34-08	126-350-09-23	129-350-08-45	129-350-38-10	211-350-01-45	210-410-08-15	
124.052/066	1993-95	Cpe/Cabrio	ASR	2.65	210mm	129-351-05-05	124-351-34-08	126-350-09-23	129-350-09-45	129-350-41-10	211-350-01-45	210-410-08-15	
124.090	1988-89	300TE	No	3.27	185mm	124-351-06-05	124-351-25-08	124-350-63-23	208-350-01-45	129-350-40-10	211-350-00-45	202-410-13-15	
124.090	1990	300TE	No	3.27	185mm	124-351-06-05	124-351-25-08	124-350-63-23	208-350-01-45	129-350-40-10	211-350-00-45	202-410-13-15	
124.090	1991-92	300TE	No	2.87	185mm	124-351-06-05	124-351-25-08	124-350-64-23	208-350-01-45	129-350-40-10	211-350-00-45	202-410-13-15	
124.090	1990	300TE	ASR	3.27	185mm	124-351-07-05	124-351-25-08	124-350-63-23	124-350-61-45	129-350-41-10	211-350-00-45	202-410-13-15	
124.090	1991-92	300TE	ASR	2.87	185mm	124-351-07-05	124-351-25-08	124-350-64-23	124-350-61-45	129-350-41-10	211-350-00-45	202-410-13-15	
124.128	1990-93	300D 2.5T	No	2.65	185mm	124-351-06-05	124-351-25-08	124-350-83-23	208-350-01-45	129-350-40-10	211-350-00-45	202-410-13-15	Cover -37-08 after B976852
124.128	1990-93	300D 2.5T	ASD	2.65	185mm	124-351-06-05	124-351-25-08	124-350-92-23	124-350-58-45	129-350-41-10	211-350-00-45	202-410-13-15	Cover -37-08 after B976852
124.131	1995	E300	No	2.87	185mm	124-351-06-05	124-351-30-08	124-350-64-23	208-350-01-45	129-350-40-10	211-350-00-45	202-410-13-15	Cover -37-08 after B976852
124.131	1995	E300	ASD	2.87	185mm	124-351-06-05	124-351-30-08	124-350-94-23	124-350-58-45	129-350-41-10	211-350-00-45	202-410-13-15	Cover -37-08 after B976852
124.133/193	1987	300D/TD	No	2.65	185mm	124-351-06-05	124-351-25-08	124-350-83-23	208-350-01-45	129-350-40-10	126-350-14-45	126-410-04-15	(new axle 210-350-84-10)
124.230	1990-93	300E 4Matic	ASD	3.07	185mm	124-351-06-05	124-351-25-08	124-350-93-23	124-350-58-45	129-350-41-10	211-350-00-45	202-410-13-15	Cover -37-08 after B976852
124.290	1990-93	300TE 4Matic	ASD	3.29	185mm	124-351-06-05	124-351-25-08	124-350-93-23	124-350-58-45	129-350-41-10	211-350-00-45	202-410-13-15	
Notes:	Any 185mm diff can be converted to limited-slip, non-ASD, by obtaining a 1990-95 diesel differential (with ASD) by replacing the driveshaft (input) flange, axle (output) flanges, axle flange seals, and rear cover, as necessary.												
	Upgrading a medium (185mm) diff to large size (210mm) diff is possible with flange & cover swapping.												
	Converting a 210mm diff to LSD can be more complex: the housings are different for ASR and ABS, you must use the same type currently on your car.												
	The small diff used in the 201 diesels has a 0.7L housing with 168mm ring gear.												

Chassis	Years	Model	ASx?	Ratio	Case Size	Gear Size	Housing	Rear Cover	Carrier	Axle flange	Axle shaft	Prop flange	Flex disc	Prop Flange	Flex Disc	Notes
201.034	1987	190E-16	LSD	3.27	1.1L	185mm	124-351-06-05	124-351-06-08	124-350-93-23	124-350-55-45	201-350-81-10	211-350-00-45	202-410-13-15	3 bolt		From VIN #F205611
124.133/193	1987	300D/TD	No	2.65	1.1L	185mm	124-351-06-05	124-351-25-08	124-350-83-23	208-350-01-45	129-350-40-10	126-350-14-45	126-410-04-15	3 bolt	100mm	(new axle 210-350-84-10)
124.036	1992-94	E500	ASR	2.82	1.3L	210mm	129-351-05-05	129-351-16-08	126-350-09-23	126-350-19-45	124-350-87-10	126-350-16-45	129-410-01-15	4 bolt	110mm	
129.063	1992-1994	SL320	No	3.69	1.3L	210mm	129-351-04-05	129-351-16-08	140-350-27-23	129-350-08-45	129-350-38-10	211-350-02-45	170-410-00-15	3 bolt	100mm	Housing with side covers
129.063	1992-1994	SL320	ASR	3.69	1.3L	210mm	129-351-05-05	129-351-16-08	140-350-27-23	129-350-09-45	129-450-41-10	211-350-02-45	170-410-00-15	3 bolt	100mm	Housing with side covers
129.063	1995	SL320	ASR	3.70	1.1L	198mm	210-351-08-05	129-350-08-36	202-350-00-23	220-350-25-45	210-350-09-56	220-350-22-45	170-410-00-15	3 bolt	100mm	Housing without side covers
129.063	1996	SL320	ASR	3.67	1.1L	198mm	210-351-08-05	129-350-08-36	202-350-00-23	220-350-25-45	210-350-09-56	220-350-22-45	170-410-00-15	3 bolt	100mm	Housing without side covers
129.063	1997-up	SL320	ASR	3.45	1.1L	198mm	210-351-08-05	129-350-08-36	202-350-00-23	220-350-25-45	210-350-09-56	220-350-22-45	170-410-00-15	3 bolt	100mm	Housing without side covers
129.066	1990-1992	500SL	No	2.65	1.3L	210mm	129-351-04-05	129-351-16-08	126-350-09-23	126-350-18-45	129-350-27-10	126-350-16-45	129-410-01-15	4 bolt	110mm	
129.066	1990-1992	500SL	ASR	2.65	1.3L	210mm	129-351-05-05	129-351-16-08	126-350-09-23	126-350-19-45	124-350-87-10	126-350-16-45	129-410-01-15	4 bolt	110mm	
129.067	1993-94	SL500	ASR	2.65	1.4L	210mm	140-351-04-05	129-350-04-36	140-350-12-23	140-350-01-45	129-450-43-10	140-350-14-45	129-410-01-15	4 bolt	110mm	
129.067	1995	SL500	ASR	2.65	1.4L	210mm	140-351-04-05	129-350-04-36	140-350-12-23	140-350-10-45	129-450-61-10	140-350-14-45	129-410-01-15	4 bolt	110mm	
129.067	1996-98	SL500	ASR	2.65	1.4L	210mm	140-351-04-05	129-350-04-36	140-350-12-23	140-350-10-45	129-450-61-10	140-350-17-45	210-410-06-15	3 bolt	110mm	
129.068	1999-02	SL500	ASR	2.65	1.6L	210mm	220-351-04-05	129-351-34-08	220-350-06-23	220-350-19-45	129-450-65-10	220-350-23-45	210-410-06-15	3 bolt	110mm	
129.076	1993-94	SL600	ASR	2.65	1.4L	210mm	140-351-04-05	129-350-04-36	140-350-12-23	140-350-01-45	129-450-43-10	140-350-14-45	129-410-01-15	4 bolt	110mm	4-bolt prop flange, 110mm
129.076	1995-98	SL600	ASR	2.65	1.4L	210mm	140-351-04-05	129-350-04-36	140-350-12-23	140-350-10-45	129-450-61-10	140-350-14-45	129-410-01-15	4 bolt	110mm	Up to Jan-31, 1998
129.076	1999-02	SL600	ASR	2.65	1.6L	210mm	220-351-04-05	129-351-34-08	220-350-06-23	220-350-19-45	129-450-65-10	220-350-24-45	129-410-01-15	4 bolt	110mm	as of Feb-1, 1998

Chassis	Years	Model	ASx?	Ratio	Case Size	Gear Size	Housing	Side Cover	Rear Cover	Carrier	Axle flange	Axle shaft	Prop flange	Flex disc	Prop Flange	Flex Disc	Notes
201.034	1987	190E-16	LSD	3.27	1.1L	185mm	124-351-06-05	N/A	124-351-06-08	124-350-93-23	124-350-55-45	201-350-81-10	211-350-00-45	202-410-13-15			From VIN #F205611
124.133/193	1987	300D/TD	No	2.65	1.1L	185mm	124-351-06-05	N/A	124-351-25-08	124-350-83-23	208-350-01-45	129-350-40-10	126-350-14-45	126-410-04-15			(new axle 210-350-84-10)
124.032	1993-95	E320/E280	No	2.65	1.3L	210mm	129-351-04-05	126-353-01-06	124-351-34-08	126-350-09-23	129-350-08-45	129-350-38-10	211-350-01-45	210-410-08-15			
124.034	1992-95	E420	No	2.24	1.3L	210mm	129-351-04-05	126-353-01-06	129-351-16-08	126-350-34-23	126-350-18-45	129-350-27-10	126-350-16-45	129-410-01-15	4-bolt	110mm	
124.036	1992-94	E500	ASR	2.82	1.3L	210mm	129-351-05-05	126-353-04-06	129-351-16-08	126-350-09-23	126-350-19-45	124-350-87-10	126-350-16-45	129-410-01-15	4-bolt	110mm	
140.134	1992-95	S350	No	2.82		210mm	129-351-06-05	126-353-01-06	140-351-24-08	126-350-09-23	129-350-08-45	140-350-34-10	126-350-16-45	129-410-01-15			Up to A212244, ASD was opt.
140.134	1992-95	S350	ASD	2.82	1.3L	210mm	129-351-04-05	129-350-0x-02	140-351-24-08	126-350-40-23	124-350-58-45	140-350-35-10	126-350-16-45	129-410-01-15			Up to A212244, ASD was opt.
140.134	1992-95	S350	?	2.82		210mm	129-351-06-05	126-353-01-06	140-351-24-08	126-350-09-23	129-350-08-45	140-350-85-10	126-350-16-45	129-410-01-15			From A212245, ASR std??
140.043	1992-99	S420	No	2.82	1.3L	210mm	129-351-04-05	126-353-01-06	140-351-24-08	126-350-09-23	126-350-18-45	140-350-69-10	126-350-16-45	129-410-01-15			Up to A212244, ASR was opt.
140.043	1992-99	S420	ASR	2.82	1.3L	210mm	129-351-05-05	126-353-04-06	140-351-24-08	126-350-09-23	126-350-19-45	140-350-40-10	126-350-16-45	129-410-01-15			Up to A212244, ASR was opt.
140.043	1992-99	S420	ASR	2.82		210mm	129-351-06-05	126-353-01-06	140-351-24-08	126-350-09-23	126-350-18-45	140-350-81-10	126-350-16-45	129-410-01-15			From A212245, ASR std??
<i>Note: VIN break is mid-1995 model year... 1994's are OK, 1996 is not (for W124 swap). Early 1995 should be OK - check VIN.</i>																	
					Code			#211 = ASD									
					Code			#471 = ASR									
140.032/033	1992-19	S320	Opt.	3.xx			Note: All S320 models have axle ratios between 3.45-3.69 due to 5-speed transmission										
140.051/070	1992-99	S500	Opt.	2.65			Note: All S500 models use the 'large' 140 diff with 1.4L case, not bolt-in swap for a W124										
140.057/076	1992-99	S600	Std.	2.65			Note: All S600 models use the 'large' 140 diff with 1.4L case, not bolt-in swap for a W124										

					LSD carrier	LSD carrier
	185mm	Ratio	Open carrier	Limited-slip carrier	MSRP, Jan-2016	EURO, Feb-2011
	<i>(1.1L case)</i>	2.65	124-350-83-23	124-350-92-23	\$825	€ 1,172
		2.87	124-350-64-23	124-350-94-23	\$2,500	€ 1,172
		3.07	124-350-63-23	124-350-93-23	\$246	€ 1,172
		3.27	124-350-63-23	124-350-93-23	\$246	€ 1,172
		3.46	124-350-59-23	124-350-91-23	N/A	€ 1,172
		3.46	124-350-69-23	124-350-91-23	N/A	€ 1,172
		3.67	124-350-69-23	124-350-91-23	N/A	€ 1,172
		3.92	124-350-69-23	124-350-91-23	N/A	€ 1,172
	210mm	Ratio	Open carrier	Limited-slip carrier	MSRP, Jan-2016	EURO, Feb-2011
	<i>(1.3L case)</i>	2.24	126-350-34-23	126-350-21-23	N/A	€ 847
		2.47	126-350-33-23	126-350-20-23	N/A	N/A
		2.65	126-350-09-23	126-350-40-23	\$1,390	€ 847
		2.82	126-350-09-23	126-350-40-23	\$1,390	€ 847
		3.06	126-350-09-23	126-350-40-23	\$1,390	€ 847
		3.27	140-350-27-23	140-350-29-23	N/A	€ 1,172
		3.46	140-350-27-23	140-350-29-23	N/A	€ 1,172
		3.69	140-350-27-23	140-350-29-23	N/A	€ 1,172

Carrier part #'s

<i>Stock 195/65/15 tire = 76" rolling circumference (note: varies slightly with tire brand/model)</i>													
<i>(Max RPM) / (Gear Ratio) multiplied by (Tire Circumference in inches) / (1056)</i>													
	1987 300D	60mph	65mph	75mph	90mph		5000	5100	5200	5300	5400	5500	6000
	2.24:1	2000		2500	3000		150						180
stock	2.65:1		2600	3000	3600		125	128	130	133	135	138	150
S350	2.82:1		2775	3200	3850		117	120	122	124	127	129	141
E300	2.87:1		2825	3250	3900		115	118	120	122	125	127	138
	3.07:1		3000	3475	4175		108	110	112	114	117	119	129
16V	3.27:1		3200	3700	4450		101	103	105	107	109	111	122
4Matic TE	3.29:1												
<i>Stock 225/55/16 tire = 78" rolling circumference (note: varies slightly with tire brand/model)</i>													
<i>Example: 6000/2.82 (*) 77.6/1056 = 156.35mph</i>													
	1994 E500	60mph	65mph	75mph	90mph		6000	6100	6200	6300	Circumference		
	2.24						198.2	201.5	204.8	208.1	78.126	<i><-- 285-35-18 tire</i>	
	2.34						189.7	192.9	196.0	199.2			
	2.47						179.7	182.7	185.7	188.7			
	2.65						167.5	170.3	173.1	175.9			
	2.82			3000			157.4	160.0	162.7	165.3			
	3.06						145.1	147.5	149.9	152.3			
<i>formula says 75mph = ~2880rpm stock</i>													
											W124		W210
	Calculator:	RPM	Diff	Gear	Tire						3rd gear = 1.44 on 722.3		3rd gear = 1.41 on 722.6
		6000	3.06	1.41	82.0	=	107.98	Speed			2.65= 3.816		2.65= 3.737
											2.82= 4.061		2.82= 3.976
													3.06= 4.315
	Revs per mile	Circumference											5th gear = 0.83 on 722.6
400E	843	75.16	inches	(205-60-15)			<i>Standard W124 tire is approx 24.5-25.0" diameter</i>						
400E	835	75.88	inches	(195-65-15)			<i>Average rolling circumference = approx 76 inches</i>						
400E	836	75.789	inches	(245-40-17)			<i>Hoosier 225-17 DOT's approx ??? measured circumference (non-rolling!), spec = 78.8" on 8.0 wheel</i>						
400E	831	76.245	inches	(205-55-16)			<i>Hoosier 245-17 DOT's approx 81.25" measured circumference (non-rolling!), spec = 81.8" on 8.0 wheel</i>						
400E	828	76.522	inches	(225-45-17, 255-40-17)			<i>Hoosier 255-16 DOT's approx 82.25" measured circumference (non-rolling!), spec = 82.5" on 8.0 wheel</i>						
500E	814	77.838	inches	(225-55-16, 245-47-17)									
500E	811	78.126	inches	(275-35-18)			<i>500E tire is approx 25.5-26.0" diameter</i>						
500E	805	78.708	inches	(285-35-18)			<i>Average rolling circumference = approx 78 inches</i>						
							<i>New Conti DW 225-55-16 measured 81" circumference (non-rolling) !!!!!</i>						

