

Gearbox and Axle ratio's

4 and 5 Speed gearboxes (LT77)

All models of the SD1 are fitted with the same ratio 5 speed box (with some exceptions, see notes below) The bell housing will be different for each engine type as well as axle ratio's.

Gear ratio's 5 speed series 2. all models 5th 0.792:1
(Series 1, 5th Gear: 0.833:1) *see note.
2400SD see note**

4th 1.000:1 All other ratio's as listed.
3rd 1.396:1
2nd 2.087:1
1st 3.321:1
Rev 3.428:1

*Note: Later series 1, cars have series 2, ratio's i.e. 5th gear ratio.

** 2400SD Diesel 5th gear ratio 0.77:1, Axle ratio 3.9:1, no auto option
Vitesse and VDP EFi Have the same ratio's, but are uprated to cope with the higher powered engines. Having shot-peened gears, and stronger bearings.

GM180 auto box's fitted to the Vitesse and VDP EFi are standard ratio's but have uprated clutches and other differences affecting pressures and gear change speeds. These can be fitted to normal VDP cars but gear changing will be at higher speeds and the speedo will be incorrect where axle ratios are different?

Note: All models: If replacing a manual gearbox? fit the later stronger types with improved bearing ect, suffix D, E, etc.
The suffix letter appears after the serial No: i.e.17A01234567D (i.e. suffix 'D')

Axle ratio's as fitted to models 3.08:1 (RM) 2600 auto, 3500 man/auto.

3.08:1 (RM) Vitesse manual, VDP EFi auto, (VDP EFi no factory manual option)
3.45:1 (RL) 2000 auto, 2300/2600 man.
3.90:1 (RT) 2000/2400SD man.
2.85:1 (RH) Vitesse auto (early models or fitted as factory option)
Letters in brackets are codes stamped on axle casing

Speedometer drive gears, Manual & BW 65/66 auto
Transducer and gear

Automatic box Ratio's Borg-Warner 65 and 66

Top 1.00:1
2 nd 1.45:1
1 st 2.39:1
Rev 2.09:1

Automatic box Ratio's GM180 (1982 on)

Top 1.00:1
2nd 1.48:1
1st 2.40:1
Rev 1.92:1

Axle ratio's as fitted to models 3.08:1 (RM) 2600 auto, 3500 man/auto.

3.08:1 (RM) Vitesse manual, VDP EFi auto, (VDP EFi no factory manual option)
3.45:1 (RL) 2000 auto, 2300/2600 man.
3.90:1 (RT) 2000/2400SD man.
2.85:1 (RH) Vitesse auto (early models or fitted as factory option)
Letters in brackets are codes stamped on axle casing

Speedometer drive gears GM180 auto

Axle 2.85:1 Transducer gear Yellow. 19T Internal gear Blue 8T
 " .08:1 " " Red. 18T " " Brown 7T
 " 3.45:1 " " Blue 20T " " ? ?

Note: GM180, the transducer, 2 gears, and support bearing are all separate parts.
 Both gears have to be changed to suit axle different ratio's.

Auto box codes

Borg Warner 65/66 (1976-82 (series 1))

GM180 1982 on (series 2)

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|------|------------------|----|--|
| 021G | 3500 BW 65 | TH | 3500 GM180, G-box ident plate (green) |
| 036T | 2300/2600 | PG | 3500 Australian |
| 053G | 3500 Police | TK | 2600 |
| 059M | 2600 | PK | 2600 |
| 061R | 3500 | TL | 2300 |
| 068E | 3500SE/VDP BW 66 | PL | 2300 |
| 070H | 3500 Police | TM | 2000 |
| 079D | 2000 | TT | VDP EFi, G-box ident plate (orange) |
| 081G | 2300/2300S/2600S | TT | Vitesse, G-box ident plate (light green) |
| 082D | 2600 Police | | |