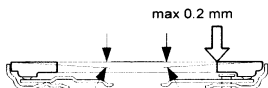


Section 4 Power gearbox

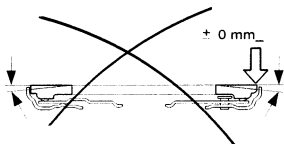
Group 41 Clutch

Technical data

Pressure plate, maximum distortion (see illustration below) . . .	0.2mm/0.008"
Clutch pedal, stroke all except turbo + 2.0T	130mm/5.12"
. all turbocharged engines except 2.0T	140mm/5.51"



A4300553



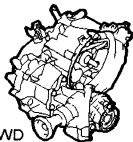
Tightening torques

Component:		Torque:
Pressure plate, flywheel	Nm/lbf ft.	25/18
Mounting screws, master cylinder	Nm/lbf ft.	25/18
Clutch slave cylinder	Nm/lbf ft.	10/7.5

Group 43 Gearbox



M56/M66



M58 AWD



AW55-XX

2000315n © VOLVO

N2000315

Manual gearboxes, gear ratios:

Type of gearbox	M56H	M56L2	M56L	M58L	M66C	M66E31	M66E51
Gear:							
1st gear	3.07:1	3.38:1	3.38:1	3.38:1	3.385:1	3.750:1	3.750:1
2nd gear	1.77:1	1.90:1	1.90:1	1.90:1	2.050:1	1.905:1	1.905:1
3rd gear	1.19:1	1.19:1	1.19:1	1.19:1	1.433:1	1.194:1	1.194:1
4th gear	0.87:1	0.87:1	0.87:1	0.87:1	1.088:1	0.838:1	0.838:1
5th gear	0.70:1	0.65:1	0.70:1	0.70:1	0.868:1	0.652:1	0.652:1
6th gear	-	-	-	-	0.700:1	0.540:1	0.540:1
Reverse gear ..	2.99:1	3.30:1	3.30:1	3.30:1	3.197:1	3.397:1	3.438:1
Reverse gear final drive	-	-	-	-	4.611:1	4.941:1	5.667:1
Final drive .. See section: Type and model year designation and chassis number.							

Tightening torques, manual gearboxes

Screwed joint:	Nm	lbf ft.
Starter motor-gearbox	40±10	30±7.4
Bell housing-cylinder block:		
Petrol engine M10 x 40 and M10 x 70	50±12	40±9
Diesel engine M12 x 50	80±20	60±15
Diesel engine M8 x 40	25±6	20±4
Flanged screw CSC (clutch release bearing) M6 x 25 ..	7±1.5	5±1
Lock-up mechanism installed in control housing M18 ...	32.5±2.5	24±2
Lock-up mechanism installed in gearbox housing M20 (M66)	32.5±2.5	24±2
Screw for control housing M8 x 30	25±6	20±4
Bracket, gear selector	25±6	20±4
Inductive sensor (ABS sensor)	10±2.5	7.4±2
Gear selector assembly M8 x 70	25±6	20±4
Switch for reversing lamp	25±6	20±4
Cable grommet, bulkhead M6 nut	6±1.5	4±1
Flanged screw, mechanical cable bracket M8 x 30	25±6	20±4
Engine mountings	50±12	40±9
Plug for draining / checking oil level	35±8	26±6
Stud, side impact bracket M8 x 50 x 34	14±2	10±1.5
Flanged nut, side impact bracket M8 x 8	25±6	20±4
Flanged screw, side impact bracket M8 x 35	25±6	20±4

V70

Group 43 Gearbox

Automatic gearbox, gear ratios

Type of gearbox	AW55-50 V70	AW55-50 XC	AW55-51AWD
Gear:			
1st gear	4.77:1	4.66:1	4.657:1
2nd gear	3.0:1	3.03:1	3.032:1
3rd gear	1.96:1	1.98:1	1.982:1
4th gear	1.32:1	1.34:1	1.341:1
5th gear	1.02:1	1.02:1	1.018:1
Reverse gear	3.23:1	5.11:1	5.114:1
Final drive See section: Type and model year designation and chassis number.			

Tightening torques, automatic gearbox:

Screwed joint	Nm	lbf ft.
Drive plate - torque converter:		
Stage 1	20±5	15±3.5
Step 2 angle-tighten	40°	40°
Gearbox:		
Engine	50±12	40±9
Oil filler pipe, bracket	24±6	18±4
Bracket for gearbox cable	25±6	20±4
Nipple for coolant pipe	30±6	22±4

Group 43 Components

Gearbox AW55-xx:

Components must not be replaced.
If defective replace the entire gearbox assembly.

Tightening torques:

Screwed joint		Nm	lbf ft.
Drive plate - torque converter:			
Step 1	Nm/lbf ft.	20±5	15±3.5
Step 2	angle-tighten	40°	40°
Gearbox:			
Engine	Nm/lbf ft.	50±12	40±9
Oil filler pipe, bracket	Nm/ft. lb.	24±6	18±4
Bracket for gearbox cable	Nm/lbf ft.	25±6	20±4
Nipple for coolant pipe	Nm/lbf ft.	30±6	22±4