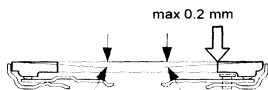


## Section 4 Power gearbox

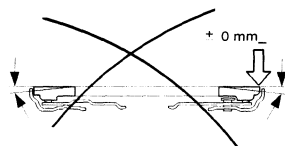
## Group 41 Clutch

## Technical data

Pressure plate, maximum distortion (see illustration below) ...	0.2mm/0.008"
Clutch pedal, travel .....	130mm/5.12"



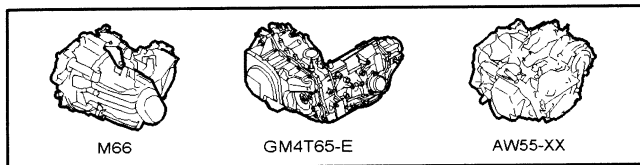
A4300553



## 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



T2000387

## Automatic gearbox, gear ratios

Type of gearbox	AW55-50 (2.86:1) AWD	GM4T65 (3.69:1) AWD	AW55-51AWD
Gear:			
1st gear .....	4.657:1	3.275:1	4.657:1
2nd gear .....	3.032:1	1.758:1	3.032:1
3rd gear .....	1.982:1	1.121:1	1.982:1
4th gear .....	1.141:1	0.790:1	1.341:1
5th gear .....	1.018:1		1.018:1
Reverse gear .....	5.114:1	2.674:1	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°
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

## Manual gearbox, gear ratios

Gear:	M66EA61	M66LA
1st gear .....	3.750:1	3.750:1
2nd gear .....	1.905:1	1.905:1
3rd gear .....	1.194:1	1.267:1
4th gear .....	0.838:1	0.949:1

XC90

## Group 43 Gearbox

5th gear .....	0.652:1	0.775:1
6th gear .....	0.540:1	0.652:1
Reverse gear .....	3.208:1	3.208:1
Reverse gear final drive .....	5.583:1	5,583
Final drive .....	4.786:1	4.786:1

## 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

## 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