

2006 - 2009 Cadillac XLR-V: 6L80 Transmission Specifications

Below is a listing of specifications for the 6L80 Transmission used in the 2006 - 2009 Cadillac XLR-V:

Fastener Specifications

Application	Ref No.	Quantity	Size	Metric	Specification English
Case	17	2	M10x1.5	15 Y	11 lb ft
Extension					
Stud to Case					
Extension					
Case	16	6	M10x1.5x4	55 Y	41 lb ft
Extension to			0		
Case					
Assembly					
Control	310	6	M5x0.8x55	8 Y	71 lb in
Solenoid					
Valve					
Assembly					
and Control					
Valve					
Lower Body					
Assembly to					
Control					
Valve Upper					
Body					
Assembly					
Control	309	10	M5x0.8x45	8 Y	71 lb in
Solenoid					

Valve					
Assembly					
and Control					
Valve					
Lower Body					
Assembly to					
Control					
Valve Upper					
Body					
Assembly					
Control	312	2	M5x0.8x53	8 Y	71 lb in
Solenoid					
Valve Heat					
Sink to					
Valve Body					
Control	301	12	M5x0.8x36	8 Y	71 lb in
Valve Upper					
Body					
Assembly to					
Control					
Valve					
Lower Body					
Assembly					
Control	22	6	M5x0.8x73	8 Y	71 lb in
(with Body					
and Valve)					
Valve					
Assembly to					
Case					
Assembly					
Fluid Pan	30	18	M6x1.0x20	9 Y	80 lb in
Assembly to					
Case					
Assembly					

Trans Oil Level Check	31	1	M12x1.75	25 Y	18 lb ft
Plug to Fluid Pan Assembly					
Fluid Pump Cover Assembly to Torque Converter Housing	231	13	M6 1.0x40	11 Y	97 lb in
Input and Output Speed Sensor					
Assembly to Control Valve Upper Body Assembly	302	2	M6x1.0x20	12 Y	106 lb in
Line Pressure Test Hole	202	1	1/8-27 NPTF	11 Y	97 lb in
Plug to Torque Converter Housing					
Manual Shaft Detent Assembly to Valve Body	23	1	M6x1.0x14. 5	12 Y	106 lb in
Torque Converter Housing	3	9	M10x1.5x5 0	72 Y	53 lb ft

Assembly to

Case

Assembly

*Reference number refers to the component callout number in Disassembled Views

Transmission General Specifications

Name	6L80
RPO Codes	MYC
Production Location	Ypsilanti, Michigan (USA)
Transmission Drive	Rear Wheel Drive
1st Gear Ratio	4.027
2nd Gear Ratio	2.364
3rd Gear Ratio	1.532
4th Gear Ratio	1.152
5th Gear Ratio	0.852
6th Gear Ratio	0.667
Reverse	3.064
Torque Converter Size—Diameter of Torque Converter Turbine	258/300 mm
Pressure Taps	Line Pressure
Transmission Fluid Type	DEXRON VI®
Transmission Type: 6	Six Forward Gears
Transmission Type: L	Longitude Mount
Transmission Type: 80	Product Series
Position Quadrant	P, R, N, D, S (some models)
Case Material	Die Cast Aluminum
Transmission Net Weight— Approximate	100 kg (220 lb)
Maximum Trailer Towing Capacity	Refer to applicable owner's manual

Fluid Capacity Specifications

Application

Specification

Metric

English

Pan Removal—	6.2 liters	6.5 quarts
Approximate Capacity		
Overhaul— Approximate Capacity (STSV/XLRV)	9.5 liters	10 quarts
Overhaul— Approximate Capacity (Corvette)	11.8 liters	12.5 quarts
Complete Trans System Fluid Capacity (STSV)	10.01 liters	10.58 quarts
Complete Trans System Fluid Capacity (XLRV)	10.32 liters	10.91 quarts
Complete Trans System Fluid Capacity (Corvette)	12.53 liters	13.24 quarts

Fluid Pump Selective Specifications

Size Classification	Thickness (mm)	Thickness (in)

Note:

- Rotor and slide must be chosen from the same size classification as the oil pump body.
- Allowable rotor and slide to fluid pump body end play is as follows:

Specification

 - Slide to Fluid Pump Body End Play — 0.020–0.051 mm (0.0008–0.0020 in)
 - Rotor to Fluid Pump Body End Play — 0.020–0.051 mm (0.0008–0.0020 in)

The fluid pump assembly has selective rotor and slide components. These components are chosen based on pump body dimensions. Fluid pump rotor and slide components are available in three size classifications (1, 2, 3) with the following tolerances:

Rotor Selection

1	17.948–17.961	0.7066–0.7071
2	17.961–17.974	0.7071–0.7076
3	17.974–17.987	0.7076–0.7081
Slide Selection		
1	17.948–17.961	0.7066–0.7071
2	17.961–17.974	0.7071–0.7076
3	17.974–17.987	0.7076–0.7081

3–5 Reverse Clutch

Clutch Pack Travel Specification – 1.21–1.79 mm (0.048–0.070 in)		
Retaining Ring Thickness		O.D. Color
Metric	English	

Note: After measuring clutch pack travel, determine if the measurement is within the specification. If the measurement is not within the specification, measure the thickness of the existing retaining ring, and then choose a thicker or thinner retaining ring that will bring the measurement within specification.

1.61–1.71 mm	0.063–0.067 in	Gray
1.88–1.98 mm	0.074–0.078 in	Light Green
2.15–2.25 mm	0.085–0.089 in	Yellow
2.42–2.52 mm	0.095–0.099 in	None
2.69–2.79 mm	0.106–0.110 in	Purple

1–2–3–4 Clutch

Clutch Pack Travel Specification – 1.53–1.99 mm (0.060–0.078 in)		
Retaining Ring Thickness		O.D. Color
Metric	English	

Note: After measuring clutch pack travel, determine if the measurement is within the specification. If the measurement is not within the specification,

measure the thickness of the existing retaining ring, and then choose a thicker or thinner retaining ring that will bring the measurement within specification.

2.42–2.52 mm	0.095–0.099 in	None
2.69–2.79 mm	0.106–0.110 in	Purple
2.96–3.06 mm	0.117–0.120 in	Light Blue
3.23–3.33 mm	0.127–0.131 in	Orange
3.50–3.60 mm	0.138–0.142 in	White

4–5–6 Clutch

Clutch Pack Travel Specification – 1.28–1.89 mm (0.050–0.074 in)		
Retaining Ring Thickness	O.D. Color	
Metric	English	

Note: After measuring clutch pack travel, determine if the measurement is within the specification. If the measurement is not within the specification, measure the thickness of the existing retaining ring, and then choose a thicker or thinner retaining ring that will bring the measurement within specification.

1.60–1.70 mm	0.063–0.067 in	Yellow
2.02–2.12 mm	0.080–0.083 in	None
2.44–2.54 mm	0.096–0.100 in	Purple

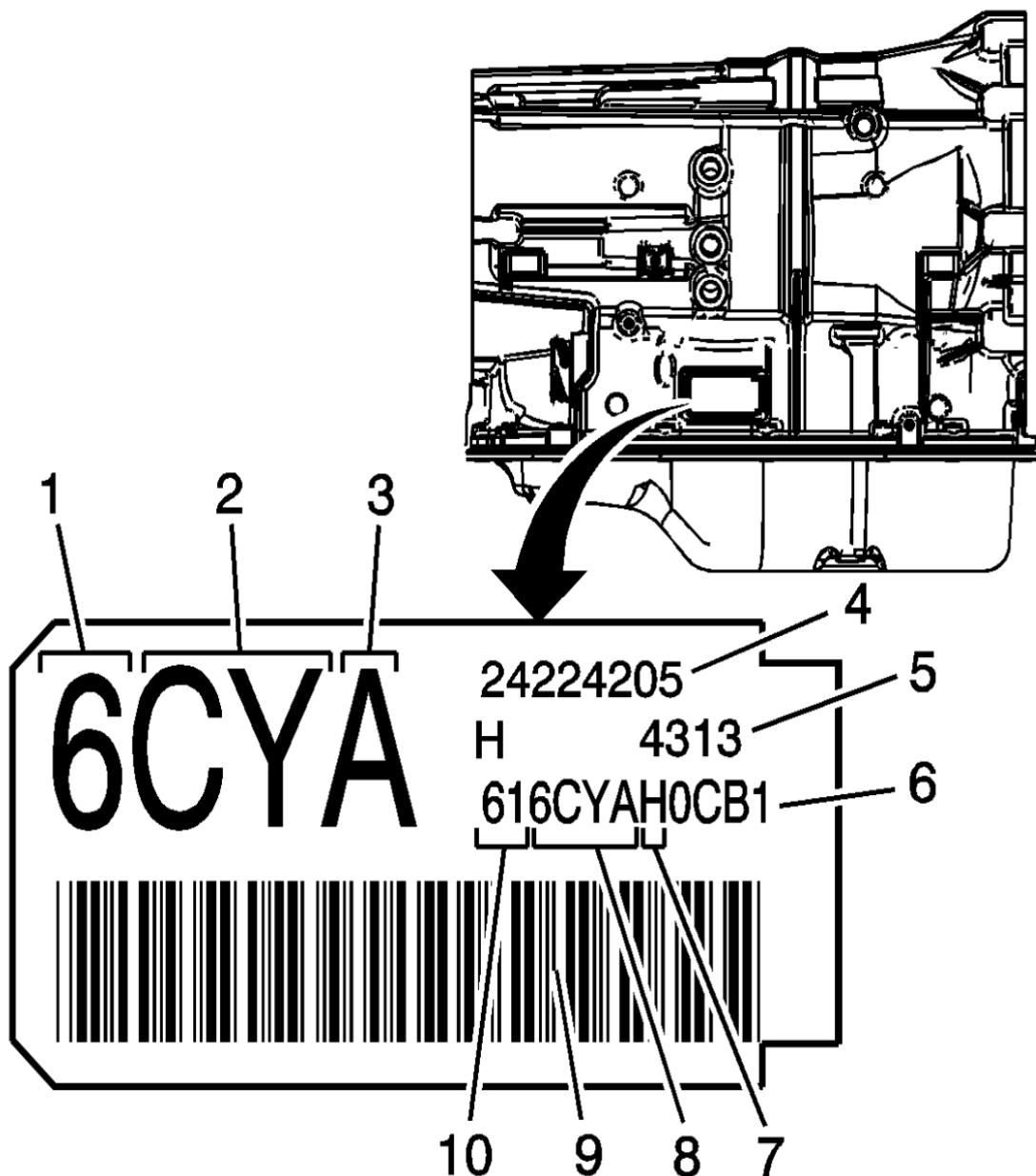
Low/Reverse Clutch

Clutch Pack Travel Specification – 1.30–2.07 mm (0.051–0.081 in)		
Retaining Ring Thickness	O.D. Color	
Metric	English	

Note: After measuring clutch pack travel, determine if the measurement is within the specification. If the measurement is not within the specification, measure the thickness of the existing retaining ring, and then choose a thicker or thinner retaining ring that will bring the measurement within specification.

1.85–1.95 mm	0.073–0.077 in	Yellow
2.26–2.36 mm	0.089–0.093 in	None
2.67–2.77 mm	0.105–0.109 in	Purple

Transmission ID and VIN Derivative Location (6L80)



(1)	Model Year
(2)	Model Code
(3)	Transmission Family
(4)	Transmission Assembly Number
(5)	Julian date
(6)	Sequential Serial Number
(7)	Source Code
(8)	Broadcast Code
(9)	Bar Code
(10)	Transmission I.D

Online URL:

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