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

Trans Oil Level Check Plug to Fluid Pan	31	1	M12x1.75	25 Y	18 lb ft
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 Plug to Torque Converter Housing	202	1	1/8–27 NPTF	11 Y	97 lb in
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 0.852 5th Gear Ratio 6th Gear Ratio 0.667 3.064 Reverse Torque Converter Size- Diameter of 258/300 mm **Torque Converter Turbine Pressure Taps** Line Pressure **DEXRON VI**® Transmission Fluid Type Transmission Type: 6 Six Forward Gears Transmission Type: L Longitude Mount **Product Series** Transmission Type: 80 **Position Ouadrant** P, R, N, D, S (some models) Die Cast Aluminum Case Material Transmission Net Weight-100 kg (220 lb) Approximate 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	9.5 liters	10 quarts
Capacity (STSV/XLRV)		
Overhaul– Approximate	11.8 liters	12.5 quarts
Capacity (Corvette)		
Complete Trans System	10.01 liters	10.58 quarts
Fluid Capacity (STSV)		
Complete Trans System	10.32 liters	10.91 quarts
Fluid Capacity (XLRV)		
Complete Trans System	12.53 liters	13.24 quarts
Fluid Capacity (Corvette)		

Fluid Pump Selective Specifications

Size Classifi	cation	Thickness	(mm)	Thickness	(in)
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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
2 5 Devenue Clutch		

3–5 Reverse Clutch

Clutch Pack Trave	el Specification – 1.21–1.79	0 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 ThicknessO.D. ColorMetricEnglish

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.

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

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: https://www.xlr-net.com/knowledgebase/article/2006-2009-cadillac-xlrv-6180-transmission-specifications-18.html