

## 2005 Cadillac CTS

Submodel: V | Engine Type: V8 | Liters: 5.7

Fuel Delivery: FI | Fuel: GAS

### Spacer and Shim Specifications

- Table 1:** Pinion Shim Calculation Table with an A1 Value Greater Than 111.00 mm (4.37 in)  
**Table 2:** Pinion Shim Calculation Table with an A1 Value Less Than 111.00 mm (4.37 in)  
**Table 3:** Differential Case Left Side Shim Calculation Table with an A2 Value Greater Than 63.5 mm (2.5 in)  
**Table 4:** Differential Case Left Side Shim Calculation Table with an A2 Value Less Than 63.5 mm (2.5 in)

#### Pinion Shim Calculation Table with an A1 Value Greater Than 111.00 mm (4.37 in)

Calculations	Example Measurements		Actual Measurements	
	Metric	English	Metric	English
B Nominal Value	5.00 mm	0.197 in	5.00 mm	0.197 in
B1 Measured Value	3.31 mm	0.130 in	--	--
B2 (B Nominal Value Minus B1 = B2)	1.69 mm	0.067 in	--	--
A1 Value (Taken from Ring Gear)	111.03 mm	4.371 in	--	--
A Nominal Value	111.00 mm	4.37 in	111.00 mm	4.37 in
B3 (A1 Value Minus A Nominal = B3)	0.03 mm	0.0012 in	--	--
B2	1.69 mm	0.0665 in	--	--
B3	0.03 mm	0.0012 in	--	--
Pinion Shim Size (B2 Plus B3 = Pinion Shim)	1.72 mm	0.0677 in	--	--

#### Pinion Shim Calculation Table with an A1 Value Less Than 111.00 mm (4.37 in)

Calculations	Example Measurements		Actual Measurements	
	Metric	English	Metric	English
B Nominal Value	5.00 mm	0.197 in	5.00 mm	0.197 in
B1 Measured Value	3.31 mm	0.130 in	--	--
B2 (B Nominal Value Minus B1 = B2)	1.69 mm	0.067 in	--	--
A1 Value (Taken from Ring Gear)	110.97 mm	4.369 in	--	--
A Nominal Value	111.00 mm	4.37 in	111.00 mm	4.37 in
B3 (A1 Value Minus A Nominal = B3)	-0.03 mm	-0.0011 in	--	--
B2	1.69 mm	0.067 in	--	--
B3	-0.03 mm	-0.0011 in	--	--
Pinion Shim Size (B2 Plus B3 = Pinion Shim)	1.66 mm	0.0654 in	--	--

#### Differential Case Left Side Shim Calculation Table with an A2 Value Greater Than 63.5 mm (2.5 in)

Calculations	Example Measurements		Actual Measurements	
	Metric	English	Metric	English
C Nominal Value	5.00 mm	0.197 in	5.00 mm	0.197 in
C1 Measured Value	3.10 mm	0.122 in	--	--
C2 (C Nominal Value Minus C1 = C2)	1.90 mm	0.075 in	--	--

A2 Value (Taken from Ring Gear)	63.53 mm	2.501 in	--	--
D Nominal Value	63.50 mm	2.5 in	63.5 mm	2.5 in
C3 (A2 Value Minus D Nominal = C3)	0.03 mm	0.0012 in	--	--
C2	1.90 mm	0.0748 in	--	--
C3	0.03 mm	0.0012 in	--	--
Left Side Case Shim (C2 Plus C3 = Left Side Shim)	1.93 mm	0.0736 in	--	--

**Differential Case Left Side Shim Calculation Table with an A2 Value Less Than 63.5 mm (2.5 in)**

Calculations	Example Measurements		Actual Measurements	
	Metric	English	Metric	English
C Nominal Value	5.00 mm	0.197 in	5.00 mm	0.197 in
C1 Measured Value	3.10 mm	0.122 in	--	--
C2 (C Nominal Value Minus C1 = C2)	1.90 mm	0.75 in	--	--
A2 Value (Taken from Ring Gear)	63.47 mm	2.499 in	--	--
D Nominal Value	63.5 mm	2.5 in	63.5 mm	2.50 in
C3 (A2 Value Minus D Nominal = C3)	-0.03 mm	-0.0012 in	--	--
C2	1.90 mm	0.0748 in	--	--
C3	-0.03 mm	-0.0012 in	--	--
Left Side Case Shim (C2 Plus C3 = Left Side Shim)	1.87 mm	0.0736 in	--	--