

# #01-07-30-023B: Harsh 1-2 Upshift, SES, MIL, or CEL Illuminated, DTC P1870 Set (Replace Valve Body) - (Mar 22, 2002)

**Subject:** Harsh 1-2 Upshift, SES, MIL, or CEL Illuminated, DTC P1870 Set (Replace Valve Body)



**Models:** 1996 Buick Roadmaster  
1996 Cadillac Fleetwood  
1999-2000 Cadillac Escalade  
1996-2000 Chevrolet Camaro, Corvette  
1996-2000 Pontiac Firebird  
1996-2000 Chevrolet and GMC Light Duty Truck Models  
1996-2000 Oldsmobile Bravada  
with 4L60-E Automatic Transmission (RPO M30)  
Built Prior to January 15, 2000 (Julian Date 0015)

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**This bulletin is being revised to update VIN Breakpoint Date information and revise the Parts Information table. Please discard Corporate Bulletin Number 01-07-30-023A (Section 07 -- Transmission/Transaxle).**

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## **Condition**

Some customers may comment on a harsh 1-2 upshift and the Check Engine Light or Service Engine Soon indicator is illuminated.

## **Diagnosis**

Typically, these vehicles will have been driven more than 32,000 km (20,000 mi) before this condition occurs.

The scan tool may show a DTC P1870 set as a history code.

A harsh 1-2 shift or DTC P1870, caused by wear in the control valve body, may be difficult to duplicate when the transmission temperature is below 93°C (200°F).

## **Cause**

The condition may be due to wear in the control valve body. This wear occurs in the bore that contains the TCC isolator and regulator valves, and results in poor, or no, TCC apply.

## **Important:**

- DTC P1870 is a type B code. The conditions for setting the P1870 DTC must occur on TWO CONSECUTIVE TRIPS (ignition cycles, with a drive cycle) before setting a P1870 history

code.

- When the conditions for setting DTC P1870 are met (first trip), the PCM commands maximum line pressure and harsh 1-2 shifts are the result.
- This may result in a harsh 1-2 shift with no history code if the conditions for setting the DTC required for the second trip are not met, on two consecutive trips (Ignition cycles, with a drive cycle).
- When the conditions for setting the DTC are met, on the second consecutive trip, a DTC P1870 is stored as a history code.
- When the P1870 code is stored, the PCM will turn on the Service Engine Soon (SES), Check Engine Light (CEL), or Malfunction Indicator Lamp (MIL).

## Correction

Install a control valve body with the revised TCC regulator and isolator valves. Refer to the Parts Information table below. These valves are used in all transmissions produced after January 15, 2000 (Julian Date 0015), and all of the service parts currently available through GMSPO contain revised TCC regulator and isolator valves.

**Important:** If all of the following conditions are true, it is not necessary to rebuild the transmission or to replace additional transmission components beyond the control valve body.

- Transmission operation is normal before the transmission reaches operating temperature, or before DTC P1870 is set (no slips, flares, or missing gears).
- The torque converter is not blue or overheated.
- The transmission fluid is not burned or has no burned odor.
- The transmission fluid pan contains no abnormal debris (clutch material, bronze, brass, or metal fragments).

## Parts Information

Model Year	Vehicle Platform	Engine (RPO)	Transmission (RPO)	Transmission Broadcast Code	P/N
1996	S Truck	2.2L (LN2)	4L60-E (M30)	SAD	24217855
1996	C Truck (Mexico)	5.7L (LO5)	4L60-E (M30)	CPD	24217856
1996	C/K Truck G Van	5.0L (L30)	4L60-E (M30)	CCD, CFD, KBD, WAD, WBD	24217856
1996	C/K Truck G Van	5.7L (L31)	4L60-E (M30)	CHD, CJD, KCD, CMD, CUD, KPD, YDD, FFD, WCD, WHD	24217857
1996	F Car Y Car	5.7L (LT1)	4L60-E (M30)	FFD, YDD	24217857
1996	D Car	5.7L (L31)	4L60-E (M30)	AHD	24217857
	S/T Truck	4.3L	4L60-E		

1996	M/L Van	(L35)	(M30)	TBD,TAD, MSD, MDD	24217860
1996	C/K Truck G Van	4.3L (L35)	4L60-E (M30)	CAD, CBD, KAD	24217861
1996	S/T Truck	4.3L (LF6)	4L60-E (M30)	SHD, TLD	24217862
1996	B Car	4.3L (L99)	4L60-E (M30)	BBD, BCD	24217863
1996	B Car (Includes Police Pkg.)	5.7L (LT1)	4L60-E (M30)	BFD, BWD, BKD	24217864
1996	F Car	3.8L (L36)	4L60-E (M30)	FCD, FBD	24217865
1997	S Truck	2.2L (LN2)	4L60-E (M30)	SAD	24217866
1997	C/K Truck G Van	4.3L (L35)	4L60-E (M30)	CAD, CBD, KAD	24217867
1997	S/T Truck M/L Van	4.3L (L35) 4.3L (LF6)	4L60-E (M30)	SHD, TLD, TBD, TAD, MSD, MDD	24217868
1997	C Truck (Mexico)	5.7L (L31)	4L60-E (M30)	CPD	24217869
1997	C/K Truck G Van	5.0L (L30)	4L60-E (M30)	CCD, CFD, KBD	24217869
1997	C/K Truck G Van	5.7L (L31)	4L60-E (M30)	CJD, CHD, KCD	24217870
1997	F Car Y Car	5.7L (LS1)	4L60-E (M30)	FFD, YDD	24217870
1997	F Car	3.8L (L36)	4L60-E (M30)	CFD, FBD	24217871
1998	C/K Truck G Van	5.7L (L31) 5.0L (L30)	4L60-E (M30)	ADD, AFD, AJD, ALD, AWD, CCD, CFD, KBD, CHD, CJD, KCD	24221155
	C/K Truck				

1998-2000	G Van S/T Truck M/L Van	4.3L (L35) 4.3L (LF6)	4L60-E  (M30)	TAD, MSD, CAD, CBD, KAD, WBD, SHD	24221154
1998-2000	S Truck	2.2L (LN2) 2.2L (L43)	4L60-E  (M30)	SAD	24221153
1998-2000	F Car	3.8L (L36)	4L60-E  (M30)	FBD, FCD	24221159
1998-2000	F Car Y Car	5.7L (LS1)	4L60-E  (M30)	FFD, YDD	24221158
1998-2000	C/K Truck  (Includes Police Pkg.) G Van	5.7L (L31) 5.0L (L30)	4L60-E  (M30)	LHD, LSD, LUD, LPD, KXD, CPD	24221161
1999-2000	C/K Truck	4.8L (LR4)	4L60-E  (M30)	CCD, CFD, KBD	24221162
1999-2000	C/K Truck	5.3L (LM7)	4L60-E  (M30)	CJD, CHD, KCD	24221162

Parts are currently available from GMSPO.

## [Warranty Information](#)

For vehicles repaired under warranty, use:

<b>Labor Operation</b>	<b>Description</b>	<b>Labor Time</b>
K6560	Valve Body - R&R or Replace	Use Published Labor Operation Time

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