



GENERIC OBD-II TCC CODES

IS IT ELECTRICALLY OR MECHANICALLY GENERATED?

COMPLAINT: When Generic codes for "TCC Stuck On or Off" or a TCC Solenoid circuit fault are stored, it becomes confusing for the technician to determine if the code is *Electrically* or *Mechanically* generated. In many cases the diagnosis goes in the wrong direction. When the code is electrically generated, there is a problem with the TCC solenoid circuit. When the code is mechanically generated, it means the signal is given or canceled normally, but the incorrect RPM range is seen by the computer.

CAUSE: This is due to the O.E. automobile manufacturers, using the codes differently between one make and another. The same code number could mean the opposite even within the same manufacturer. For example, a P0740 for a 1995 GM car with a 4T60E transmission will be *mechanically* generated while the same code for 1997 GM truck with a 4L60E transmission will be *electrically* generated. The Asian auto makers use a different group of codes in the P0700 category, for example, Toyota uses code P0770 with a code definition of "Lock-Up Solenoid" with no other explanation. This actually is a solenoid performance code which means it is *mechanically* generated. As far as the European manufacturers, they may have these codes available in a given model year and gone the next. OBD-II rules were intended to make the same code mean the same thing for all manufacturers selling vehicles in the USA, **BUT**, it doesn't mean it has to be the exact same code number, just that it has to indicate the same type of symptom or failure.

CORRECTION: Refer to the charts in figures 1 through 5 to determine if the code stored is mechanically or electrically generated.

NOTE: Always check the "**GENERIC**" section of your scan tool, and always check the "Pending Code" and the "Freeze Frame" categories for codes as well as the Codes and Data section.

There may be NO codes stored in the Codes and Data section, but there could be codes in the "Pending Codes" category if it is not a hard code yet or if it is an Intermittent code.

There may be a code in the "Freeze Frame" section as well as one movie frame of data that was recorded when the code was stored.



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GENERAL MOTORS TCC P0700 CODES			
MODEL YEAR	TRANSMISSION TYPE	FAULT CODE	TYPE OF FAULT
1994	4T60E	P0740	MECHANICAL
1995	4T40E	P0741	MECHANICAL
1995	4T40E	P0742	MECHANICAL
1995	4L60E	P0742	MECHANICAL
1995	4T60E	P0740	MECHANICAL
1996	4T40E	P0741	MECHANICAL
1996	4T40E	P0742	MECHANICAL
1996	4L60E	P0742	MECHANICAL
1996	4T60E	P0742	MECHANICAL
1996	4L80E	P0741	MECHANICAL
1996	4L80E	P0742	MECHANICAL
1996	4T80E	P0741	MECHANICAL
1996	4T80E	P0742	MECHANICAL
1996	4L30E	P0742	MECHANICAL
1996	3T40	P0742	MECHANICAL
1996	SATURN	P0740	ELECTRICAL
1996	SATURN	P0741	MECHANICAL
1996	SATURN	P0742	MECHANICAL
1997-02	4T40/45E	P0741	MECHANICAL
1997-02	4T40/45E	P0742	MECHANICAL
1997-02	4L60E	P0740	ELECTRICAL
1997-02	4L60E	P0742	MECHANICAL
1997-99	4T60E	P0740	ELECTRICAL
1997-99	4T60E	P0742	MECHANICAL
1997-02	4T65E	P0741	MECHANICAL
1997-02	4T65E	P0742	MECHANICAL
1997-02	4L80E	P0741	MECHANICAL
1997-02	4L80E	P0742	MECHANICAL
1997-02	4T80E	P0741	MECHANICAL
1997-02	4T80E	P0742	MECHANICAL
1997-98	4L30E	P0743	ELECTRICAL
1997-02	3T40	P0742	MECHANICAL
1997-02	SATURN	P0740	ELECTRICAL
1997-02	SATURN	P0741	MECHANICAL
1997-02	SATURN	P0742	MECHANICAL
1997-02	SATURN	P0743	ELECTRICAL
1997-99	SATURN	P0744	ELECTRICAL
1999-02	4L30E	P0742	MECHANICAL
1999-02	4L30E	P0743	ELECTRICAL

Figure 1



Technical Service Information

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FORD TCC P0700 CODES			
MODEL YEAR	TRANSMISSION TYPE	FAULT CODE	TYPE OF FAULT
1994	AODE	P0743	ELECTRICAL
1995-02	AX4S	P0741	MECHANICAL
1995-02	AX4S	P0743	ELECTRICAL
1995-02	AX4N/4F50N	P0741	MECHANICAL
1995-02	AX4N/4F50N	P0743	ELECTRICAL
1995-02	CD4E	P0741	MECHANICAL
1995-02	CD4E	P0743	ELECTRICAL
1995-96	E4OD	P0743	ELECTRICAL
1995-96	4R44/55E	P0741	MECHANICAL
1995-96	4R44/55E	P0743	ELECTRICAL
1995-02	AODE/4R70W	P0741	MECHANICAL
1995-02	AODE/4R70W	P0743	ELECTRICAL
1996	F4EAT	P0740	ELECTRICAL
1996	GF4EAT	P0741	MECHANICAL
1996	GF4EAT	P0743	ELECTRICAL
1997-98	E4OD/4R100	P0743	ELECTRICAL
1997-02	4R44/55/5R55E	P0741	MECHANICAL
1997-02	4R44/55/5R55E	P0743	ELECTRICAL
1997-02	F4E-III	P0741	MECHANICAL
1997-02	F4E-III	P0743	ELECTRICAL
1997-98	GF4EAT	P0740	EITHER
1999-02	4R100	P0741	MECHANICAL
1999-02	4R100	P0743	ELECTRICAL
2000-03	5R55N	P0741	MECHANICAL
2000-03	5R55N	P0743	ELECTRICAL
2002	5R55W/S	P0740	ELECTRICAL
2002	5R55W/S	P0741	MECHANICAL
2002	5R55W/S	P0743	ELECTRICAL

Figure 2

CHRYSLER TCC P0700 CODES			
MODEL YEAR	TRANSMISSION TYPE	FAULT CODE	TYPE OF FAULT
1996-02	41TE/42LE	P0740	MECHANICAL
1996-02	41TE/42LE	P0743	ELECTRICAL
1996-02	42/44/46/47RE	P0740	MECHANICAL
1996-02	42/44/46/47RE	P0743	ELECTRICAL
2000-02	45RFE	P0740	MECHANICAL
2000-02	45RFE	P0743	ELECTRICAL

Figure 3



Technical Service Information

IS IT ELECTRICALLY OR MECHANICALLY GENERATED?

IMPORT TCC P0700 CODES			
MODEL YEAR	TRANSMISSION TYPE	FAULT CODE	TYPE OF FAULT
1996-02	ACURA	P0740	MECHANICAL
1996-98	AUDI	P0773	ELECTRICAL
2000-01	DAEWOO	P0741	MECHANICAL
2000-01	DAEWOO	P0742	MECHANICAL
2000-01	DAEWOO	P0743	ELECTRICAL
1996	GEO TRACKER	P0741	MECHANICAL
1999	GEO TRACKER	P0741	MECHANICAL
1996-98	GEO TRACKER	P0743	ELECTRICAL
1996	GEO TRACKER	P0771	MECHANICAL
1996	GEO TRACKER	P0773	ELECTRICAL
2000-01	CHEVY TRACKER	P0741	MECHANICAL
1996-02	HONDA	P0740	MECHANICAL
1996-02	HYUNDAI	P0740	MECHANICAL
1996-99	HYUNDAI	P0742	ELECTRICAL
1996-02	HYUNDAI	P0743	ELECTRICAL
1999	HYUNDAI	P0744	MECHANICAL
1999-02	INFINITI	P0740	ELECTRICAL
1999-02	INFINITI	P0744	MECHANICAL
1996-02	ISUZU	P0742	MECHANICAL
2000	JAGUAR	P0741	MECHANICAL
2000	JAGUAR	P0743	ELECTRICAL
1996-02	KIA SPORTAGE	P0743	ELECTRICAL
1997-02	KIA SPORTAGE	P0740	MECHANICAL
1996-02	KIA SEPHIA/SPECTRA	P0740	MECHANICAL
1997-02	KIA SEPHIA/SPECTRA	P0743	ELECTRICAL
1996-02	LEXUS	P0770	MECHANICAL
1996-02	LEXUS	P0773	ELECTRICAL
1996-02	MAZDA	P0740	MECHANICAL
1999-02	MAZDA	P0741	MECHANICAL
1999-02	MAZDA	P0742	MECHANICAL
1999	MAZDA	P0743	ELECTRICAL
1999-02	MAZDA	P0771	MECHANICAL
1999-02	MAZDA	P0772	MECHANICAL
1999-02	MAZDA	P0773	ELECTRICAL
1997-02	MERCEDES BENZ	P0740	MECHANICAL
1997-02	MERCEDES BENZ	P0743	ELECTRICAL
1999-02	MITSUBISHI	P0740	MECHANICAL
1999-02	MITSUBISHI	*P0743	ELECTRICAL
1996-02	NISSAN	P0740	ELECTRICAL
1997-02	NISSAN	P0744	MECHANICAL
1999-02	PORSCHE	P0740	MECHANICAL
1999-02	PORSCHE	P0743	ELECTRICAL

** Denotes this code is assigned to vehicles equipped with a 40 or 50 series unit only.*

Figure 4



Technical Service Information

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IMPORT TCC P0700 CODES			
MODEL YEAR	TRANSMISSION TYPE	FAULT CODE	TYPE OF FAULT
1996-02	SUBARU	P0740	MECHANICAL
2001	SUBARU	P0741	MECHANICAL
1996-02	SUBARU	P0743	ELECTRICAL
1996-02	SUZUKI ESTEEM	P0741	MECHANICAL
1996-02	SUZUKI ESTEEM	P0743	ELECTRICAL
1996	SUZUKI ESTEEM	P0771	MECHANICAL
1996	SUZUKI ESTEEM	P0773	ELECTRICAL
1996-98	SUZUKI SIDEKICK	P0741	MECHANICAL
1996	SUZUKI SIDEKICK	P0743	ELECTRICAL
1996	SUZUKI SIDEKICK	P0771	MECHANICAL
1996	SUZUKI SIDEKICK	P0773	ELECTRICAL
2000-02	SUZUKI VITARA	P0743	ELECTRICAL
1999-02	TOYOTA (GEO) PRIZM	P0771	MECHANICAL
1996-02	TOYOTA	P0770	MECHANICAL
1996-02	TOYOTA	P0773	ELECTRICAL
1997-98	VOLVO	P0740	ELECTRICAL
1996-98	VOLKSWAGEN	P0773	ELECTRICAL

Figure 5