



ACURA

DTC P0740 AND TCS 31-2

COMPLAINT: Before and after a rebuild, an Acura vehicle such as a 3.2TL with the 5 speed B7WA transmission may store both a P0740 TCC performance code along with a Traction Control code 31-2 Engine Retard Command (PFINH) signal. During a rebuild the converter was replaced yet the two codes remain. This causes the tech to focus on resolving the TCS 31-2 code and after much time no resolution is realized.

CAUSE: In most cases code P0740 causes the traction control system to produce code 31-2 for an engine retard command problem.

Engine torque reduction is a strategy being utilized on several fronts. It is used for fuel economy as well as in various shift strategies eliminating tail end shift bumps. Another area where torque reduction is used is in traction control/vehicle stability assist systems. As individual wheels are being braked for anti-skid control, a signal is also being sent to reduce engine torque. With code P0740 stored, the PCM/TCM is telling the TCS is will not perform this torque reduction function. In return the ABS/TCS system sets code 31-2.

CORRECTION: There are many reasons that causes the converter clutch to not perform correctly causing the P0740 code. Besides a compromised torque converter, there can be performance issues with the following and should be checked and repaired as needed:

1. Line pressure control (filter, pump, PR system)
2. TCC solenoid mechanical malfunction
3. Linear solenoid C mechanical malfunction
4. Lock-up Timing Valve
5. Lock-up Shift Valve
6. Lock-up Control Valve
7. Leaking bore plugs with TCC valves
8. Torque converter check valve
9. Cooler check valve
10. Stator arm to regulator body wear
11. Heat exchanger