

AUTOMATIC GEARBOX - ZF4HP22 - 24

Fault code, OBD II (TestBook)	Fault description	Effect	Warning lamp illumination	
			MIL	Sport/Manual
P1613 (1)	* Solenoid valves power supply relay, sticking open or short circuit	Limp home mode in low and high ranges. Shift pressure to maximum, harsh gear shifts/engagement.	On	On
P1705 (39)	Transmission high/low range, implausible input	No apparent effect	On	Off
P1810 (12, 13)	Sport/Manual warning lamp circuit fault	Lamp fails bulb check or is permanently illuminated. No effect on gearbox operation.	On	Off
P1841 (16)	* CAN bus fault	Maintains current gear in low range, limp home mode in high range. Shift pressure to maximum, harsh gear shifts/engagement.	On	On
P1842 (15)	* CAN level monitoring	Maintains current gear in low range, limp home mode in range. Shift pressure to maximum, harsh gear shifts/engagement.	On	On
P1843 (17)	* CAN time-out monitoring	Maintains current gear in low range, limp home mode in high range. Shift pressure to maximum, harsh gear shifts/engagement.	On	On
P1884 (11)	* CAN message: Engine friction invalid	No apparent effect.	On	Off
P1884 (18)	* CAN message: Throttle position invalid	Substitute throttle angle of 50% adopted. No kickdown. Operates in economy modes only.	On	On
P1884 (19)	CAN message: Engine temperature invalid	Substitute engine temperature derived from other inputs. No apparent effect.	On	Off
P1884 (20)	CAN message: Road speed invalid	No apparent effect	On	Off
P1884 (33, 34)	* CAN message: Engine torque invalid	Substitute engine torque of derived from other inputs. May affect shift quality.	On	Off
P1884 (35)	* CAN message: Engine speed invalid	Maintains current gear in low range, limp home mode in high range. Shift pressure to maximum, harsh gear shifts/engagement.	On	On
P1884 (37)	CAN message: Engine air intake temperature invalid	No apparent effect.	On	Off
P1844 (38)	Altitude shift control invalid	No reduced torque compensation, possible reduction in performance/ driveability at altitude or high ambient temperatures.	On	Off

* = Emissions (OBD II) relevant
†On = MIL illuminates immediately (in all other faults, MIL On = illuminates in the 2nd consecutive drive cycle if fault still present)