



DTC memory tables (for DTC's 002 through 065) for model163, follow. If there are **no** DTCs' stored, then continue with **□ 13. Review □ 13** regardless, for additional information.

Read out DTC's using HHT

The HHT will display only the defective electrical component and will refer to the respective test steps in section **□ 23** of the Diagnostic Manual.

1. Review **□ 11** entirely and this page before continuing diagnosis.
2. Check AFT level and correct as necessary
3. Check condition of AFT, see **□ 11/2**
4. Connect HHT to data link connector (X11/4) as shown in connection diagram (see section 0).
5. Ignition: **ON**
6. Perform Quick Test with HHT and readout DTC'S.

Note:

The HHT, via its display indicates only the defective electrical components or refers to the corresponding Test step.

In order to further localize and determine the cause of an **intermittent** DTC or find the root DTC, proceed as follows:

Subtract 96 from the displayed value (098 to 161) to determine the relevant DTC.

7. **Retrieve any additional information** on the displayed DTC by pressing the enter key.



1. If additional DTC's are stored in DTC memory of ETC or ME-SFI, further tests can be performed using the HHT (e.g. comparison of Nominal Values/Actual Values, or activation of components).

2. If no DTC'S are stored in DTC memory, the complaint may be of a hydraulic-mechanical nature (e.g. DTC **051** or **055**), proceed with the Complaint Related Diagnostic Chart (see **□ 13/1**).

3. **USA vehicles only:**

Illumination of the "CHECK ENGINE" MIL (A1e26) will reference corresponding DTC's in the DTC memory of the engine control module.

4. Transmission adaption (adaption of the ETC), see **□ 11**

DTC 	DTC intermittent 	DTC (OBD) only	Note	Possible cause	Test step/Remedy 1)
002	098	P0753	Valid for diagnostic version 0 - 6, 13, 20	1-2/4-5 shift solenoid valve (Y3/6y3)	Wiring, plug connectors, 1-2/4-5 shift solenoid valve (Y3/6y3), □ 23 ⇒ 4.0 , see □ 13/16
003	099	P0758	Valid for diagnostic version 0 - 6, 13, 20	2-3 shift solenoid valve (Y3/6y5)	Wiring, plug connectors 2-3 shift solenoid valve (Y3/6y5), □ 23 ⇒ 5.0 , see □ 13/16
004	100	P0763	Valid for diagnostic version 0 - 6, 13, 20	3-4 shift solenoid valve (Y3/6y4)	Wiring, plug connectors. 3-4 shift solenoid valve (Y3/6y4), □ 23 ⇒ 6.0 , see □ 13/16
005	101	P0743	Valid for diagnostic version 0 - 6, 13, 20	PWM solenoid valve (Y3/6y6) (torque converter lock-up)	Wiring, plug connectors. PWM solenoid (Y3/6y6), □ 23 ⇒ 7.0 , see □ 13/16
006	102	P0748	Valid for diagnostic version 0 - 6, 13, 20	Modulating pressure regulating solenoid valve (Y3/6y1)	Wiring, plug connectors. Modulating pressure regulating solenoid valve (Y3/6y1), □ 23 ⇒ 8.0 , see □ 13/16
007	103	P0748	Valid for diagnostic version 0 - 6, 13, 20	Shift pressure regulating solenoid valve (Y3/6y2)	Wiring, plug connectors. Shift pressure regulating solenoid valve (Y3/6y2), □ 23 ⇒ 9.0 , see □ 13/16
008	104	--	Valid for diagnostic version 0 - 6	R/P-lock solenoid (Y66/1) 722.6 in Model 163 without touch shift.	Wiring, plug connectors. R/P-lock solenoid (Y66/1), □ 23 ⇒ 10.0
009	105	--	Valid for diagnostic version 0 - 6	Starter lock-out relay module (K38/3) (fault is in the line).	Wiring, plug connectors, Model 140, 129: Starter lock-out relay module (K38/3), Model 210: Pulse module (N65), □ 23 ⇒ 11.0
010	106	P0702	Valid for diagnostic version 0 - 6, 13, 20	Voltage supply to solenoid valves	Wiring, plug connectors. □ 23 ⇒ 3.0
011	107	P0715	Valid for diagnostic version 0 - 6, 13, 20	Voltage supply to rpm sensors	Wiring, plug connectors. □ 23 ⇒ 12.0
012	108	P0715	Valid for diagnostic version 0 - 6, 13, 20	RPM sensor 2 (Y3/6n2)	Wiring, plug connectors. RPM sensor 2 (Y3/6n2), see □ 13/16
013	109	P0715	Valid for diagnostic version 0 - 6, 13, 20	RPM sensor 3 (Y3/6n3)	Wiring, plug connectors. RPM sensor 3 (Y3/6n3), see □ 13/16
014	110	P0715	Valid for diagnostic version 6, 13, 20	RPM sensor comparison: RPM sensor 2 (Y3/6n2) to RPM sensor 3 (Y3/6n3), implausible	If RPM sensor 2 or 3 are faulty, switch electrical set. If impulse wheel is loose for RPM sensor 2 or 3, repair transmission or replace transmission.
015	111	P0700	Valid for diagnostic version 6, 13, 20	Excessive RPM: RPM sensor 2 (Y3/6n2) or RPM sensor 3 (Y3/6n3)	See □ 13/16
			Valid for diagnostic version	Transmission selector lever coding	Wiring, plug connectors.

017	113	P0705	4, 5, 6	invalid	Transmission range recognition switch (S16/10)
018	114	P0705	Valid for diagnostic version 0, 1, 2, 3	Transmission selector lever implausible	See □ 13 Wiring, plug connectors.
018	114	--	Valid for diagnostic version 4, 5, 6	Transmission selector lever between ranges	See □ 13/17 Wiring, plug connectors.
019	115	--	Valid for diagnostic version 0, 1, 2	Temperature sensor (Y3/6b1) defective	Wiring, plug connectors. Temperature sensor (Y3/6b1)
020	116	--	Valid for diagnostic version 0, 1, 2	Starter lock-out contact (Y3/6s1) not functioning	Starter lock-out contact (Y3/6s1), □ 23 ⇒ 13.0 , see □ 13/17
020	116	--	Valid for diagnostic version 3, 4, 5, 6, 13, 20	Temperature sensor (Y3/6b1) faulty, Starter lock-out contact (Y3/6s1) no function	Starter lock-out contact (Y3/6s1), □ 23 ⇒ 13.0 , see □ 13/17
021	117	--	Valid for diagnostic version 0 - 6, 13, 20	Circuit 87 voltage supply fault (low or overvoltage)	Wiring, plug connectors. □ 23 ⇒ 1.0
022	118	P0720	Valid for diagnostic version 0 - 6, 13, 20	CAN: Right rear wheel speed (VSS) from traction system implausible	
023	119	P0720	Valid for diagnostic version 0 - 6, 13, 20	CAN: Left rear wheel speed (VSS) from traction system implausible	
024	120	--	Valid for diagnostic version 0, 1	CAN: Pedal value from engine management implausible	
024	120	--	Valid for diagnostic version 2 - 6, 13, 20	CAN: Right front wheel speed (VSS) from traction system implausible	
025	121	--	Valid for diagnostic version 0, 1	CAN: Engine rpm from engine management implausible	
025	121	--	Valid for diagnostic version 2 - 6, 13, 20	CAN: Left front wheel speed (VSS) from traction system implausible	
026	122	--	Valid for diagnostic version 0, 1	CAN: Right engine torque from engine management implausible	
026	122	--	Valid for diagnostic version 2, 3, 4, 5, 6, 13, 20	CAN: Pedal value from engine management implausible	See □ 13/17
027	123	--	Valid for diagnostic version 0, 1	Altitude adjustment factor from engine management implausible (This code can be ignored only if no code was set in ME-SFI)	
027	123	--	Valid for diagnostic version 2, 3, 4, 5, 6, 13	CAN: Adjusted engine torque implausible	
027	123	--	Valid for diagnostic version 20	CAN: Static engine torque implausible	
028	124	--	Valid for diagnostic version 0, 1	CAN: Left engine torque from engine management implausible	See □ 13/17
028	124	--	Valid for diagnostic version 2, 3, 4, 5, 6, 13, 20	CAN: Engine rpm from engine management implausible	See □ 13/17
029	125	--	Valid for diagnostic version 2, 3, 4, 5, 6, 13	CAN: Right engine torque from engine management implausible	See □ 13/17
029	125	--	Valid for diagnostic version 20	CAN: Minimal engine torque from engine management implausible	See □ 13/17
030	126	--	Valid for diagnostic version 0, 1	CAN: Communication to traction system faulty	
030	126	--	Valid for diagnostic version 2 - 6, 13, 20	CAN: Altitude correction factor from engine management implausible (This code can be ignored only if no code was set in ME-SFI)	--
031	127	--	Valid for diagnostic version 0,1	CAN: Engine management communication faulty	
031	127	--	Valid for diagnostic version 3, 13, 20	CAN: Maximum induced engine torque from engine management implausible	
031	127	--	Valid for diagnostic version 4, 5, 6, except engines 119 and 120	CAN: Maximum induced engine torque from engine management implausible	
032	128	--	Valid for diagnostic version 0, 1	CAN: Engine management communication faulty	
032	128	--	Valid for diagnostic version 20	CAN: Engine torque requirement for traction system from engine management implausible	
033	129	--	Valid for diagnostic version 0,1	CAN: Engine management communication faulty	
033	129	--	Valid for diagnostic version 3, 4, 5, 6, 13	CAN: Throttle valve actuator actual value from engine management implausible	
034	130	P0750	Valid for diagnostic version 0, 1, For engine 120 only	CAN: Engine management communication faulty	
034	130	P0720	Valid for diagnostic version 13, 20	CAN: Communication with Electronic selector lever module control module (N15/5) faulty Transmission selector lever version coding implausible	See Star Diagnosis, Read out DTC memory for Electronic Selector Lever Module Control Module (N15/5).
035	131	--	Valid for diagnostic version 0 - 6, For engine 120 only	CAN: Engine management communication faulty	
036	132	--	Valid for diagnostic version 0 - 6, 13, 20	CAN: Communication from engine management faulty or engine temperature implausible	

037	133	--	Valid for diagnostic version 0 - 5	CAN: All communication faulty	See □ 13/17
037	133	--	Valid for diagnostic version 6, 13, 20	CAN: Line faulty (bus-off)	Check lines from data buse.
038	134	P0720	Valid for diagnostic version 2, 3, 4, 5, 6, 13, 20	CAN: Traction system communication faulty	See □ 13/17
039	135	--	Valid for diagnostic version 2, 3, 4, 5, 6, 13, 20	CAN: Engine management communication faulty	
040	136	--	Valid for diagnostic version 3	CAN: Instrument cluster communication faulty	
040	136	--	Valid for diagnostic version 4, 5, 6, except engines 119 and 120	CAN: Instrument cluster communication faulty	
040	136	--	Valid for diagnostic version 13, 20	CAN: Instrument cluster communication faulty, CAN: Electronic ignition switch (EIS) communication faulty	See STAR diagnosis, Readout DTCs' for EIS and instrument cluster (A1)
041	137	P0700	Valid for diagnostic version 3, 4, 5, 6 Except For engine 119/120	CAN: Communication with transfer case control module faulty	--
041	137	P0700	Valid for diagnostic version 13, 20	CAN: Communication with transfer case control module faulty	--
049	145	P0700	Valid for diagnostic version 6, 13, 20	Excessive engine RPM	--
050	146	P0700	Valid for diagnostic version 3, 4, 5	Excessive RPM: RPM sensor 3 (Y3/6n3) or Externally toothed plate gear	See □ 13/17
051	146	P0700	Valid for diagnostic version 6, 13, 20	Non-acceptable transmission gear ratio	See □ 13/18
051	147	P0700	Valid for diagnostic version 0 - 6, 13, 20	Gear implausible or transmission slips	See □ 13/18
052	148	P0700	Valid for diagnostic version 0, 1, 2	Command valve (6, 14 or 25) sticking under pressure	See □ 13/24
052	148	P0700	Valid for diagnostic version 3, 4, 5, 6, 13, 20	Torque converter lock-up clutch: unauthorized lock	See □ 13/18
053	149	P0740	Valid for diagnostic version 0, 1, 2	Torque converter lock-up clutch: not functioning	See □ 13/18
053	149	P0740	Valid for diagnostic version 3, 4, 5, 6, 13, 20	Torque converter lock-up clutch: input too high	See □ 13/18
054	150	--	Valid for diagnostic version 0 - 6, 13, 20	No transmission overload protection (return signal)	--
055	151	P0730	Valid for diagnostic version 0 - 6, 13, 20	Gear comparison or selected gear not attained	See □ 13/19
056 - 059	152 - 155	P0702	Valid for diagnostic version 0 - 6, 13, 20	Fault in transmission control module (N15/3)	Wiring, plug connections. N15/3
060 - 061	156 - 157	--	Valid for diagnostic version 0 - 6, 13, 20	Fault in transmission control module (N15/3)	Wiring, plug connections. N15/3
062 - 064	158 - 160	P0702	Valid for diagnostic version 0 - 6, 13, 20	Fault in transmission control module (N15/3)	Wiring, plug connections. N15/3
065	161	--	Valid for diagnostic version 0 - 6, 13, 20	Fault in transmission control module (N15/3)	Wiring, plug connections. N15/3, see □ 13/19

1) Observe Preparation for Test, see □ 22.