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DTC memory tables (for DTC's 002 through 065) for model163, follow. If there are **no** DTCs' stored, then continue with 13. Review 13regardless, 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 \Box 23 of the Diagnostic Manual.

- 1. Review \square 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 D15), proceed with the Complaint Related Diagnostic Chart (see D13/1).

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 \Box 11

Codes stored in Trans. Cont. Module

Codes in ECM After repairs, codes must be erased from the ECM (Eng. Controle Module) then erased from the ETC (Trans. Module

Trans. Cont. Wodule		In ECM then crased norm the 210 (Trans. Module				
DTC Hard Code	DTC intermittent	DTC (OBD) (USA) only	Note	Possible cause	Test step/Remedy 1)	
002	098	P0 753	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	PO 758	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	PO 763	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	P0 743	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	PO 748	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	
700	103	PO 748	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	P0 702	Valid for diagnostic version 0 - 6, 13, 20	Voltage supply to solenoid valves	Wiring, plug connectors. □ 23 ⇒ 3.0	
Oli	107	P0 7/5	Valid for diagnostic version 0 - 6, 13, 20	Voltage supply to rpm sensors	Wiring, plug connectors. ☐ 23 ⇒ 12.0	
012	108	PO 7/5	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	P0 7/5	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	#D	P0 715	Valid for diagnostic version 6, 13, 20	RPM sensor comparison: RPM sensor 2 (Y3/6n2) to RPM sensor 3 (Y3/6n3), implausible	If RPM semsor 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	!!!	PO 700	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.	

רום	EII	PO 705	4, 5, 6	invalid	Transmission range recognition switch (S16/10)	
018	#4	PO 705	Valid for diagnostic version 0, 1, 2, 3	Transmission selector lever implausible	See 13 Wiring, plug connectors.	
018	84		Valid for diagnostic version 4, 5, 6	Transmission selector lever between ranges	See 13/17 Wiring, plug connectors.	
019	#5		Valid for diagnostic version 0, 1, 2	Temperature sensor (Y3/6b1) defective	Wiring, plug connectors. Temperature sensor (Y3/6b1)	
020	#6		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	115		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	#7		Valid for diagnostic version 0 - 6, 13, 20	Circuit 87 voltage supply fault (low or overvoltage)	Wiring, plug connectors. □ 23 ⇒ 1.0	
022	#B	P0 720	Valid for diagnostic version 0 - 6, 13, 20	CAN: Right rear wheel speed (VSS) from traction system implausible		
023	#9	PO 720	Valid for diagnostic version 0 - 6, 13, 20	CAN: Left rear wheel speed (VSS) from traction system implausible		
024	150		Valid for diagnostic version 0, 1	CAN: Pedal value from engine management implausible	Any of these codes the	at
024	120		Valid for diagnostic version 2 - 6, 13, 20	CAN: Right front wheel speed (VSS) from traction system implausible	do not have a "P" code	
025	121		Valid for diagnostic version 0, 1	CAN: Engine rpm from engine management implausible	assigned to it will not trigger the Check Eng.	
025	121		Valid for diagnostic version 2 - 6, 13, 20	CAN: Left front wheel speed (VSS) from tracton system implausible	Light. Which means th	
026	155		Valid for diagnostic version 0, 1	CAN: Right engine torque from engine management implauslible	you will have to read the codes in the ETC to so	
026	122		Valid for diagnostic version 2, 3, 4, 5, 6, 13, 20	CAN: Pedal value from engine management implausible	set hin/gs out.	,,,
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		
750	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	CAN: Communication to traction		
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	PO 750	Valid for diagnostic version 0, 1, For engine 120 only	CAN: Engine management communication faulty		
034	130	PO 120	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	CAN: Communication from engine management faulty or engine		

D37	133	-	Valid for diagnostic version 0 - 5	CAN: All communication faulty	See □ 13 /17	
750	133		Valid for diagnostic version 6, 13, 20	CAN: Line faulty (bus-off)	Check lines from data buse.	
038	134	P0 720	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	(36		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	P0 700	Valid for diagnostic version 3, 4, 5, 6 Except For engine 119/120	CAN: Communication with transfer case control module faulty	- All trans. codes	
041	137	PO 700	Valid for diagnostic version 13, 20	CAN: Communication with transfer case control module faulty	(e.g. 041) that h	
049	145	PO 700	Valid for diagnostic version 6, 13, 20	Excessive engine RPM	it should trigger	he
050	146	P0 700	Valid for diagnostic version 3, 4, 5	Execessive RPM: RPM sensor 3 (Y3/6n3) or Externally toothed plate gear	See ☐ 13/17 Check Eng. Ligh But look at all	it
051	146	PO 700	Valid for diagnostic version 6, 13, 20	Non-acceptable transmission gear ratio	see □ 13/18 the possibilities it could be. Wh	
251 ? shifter bushi	 47 ng?	PO 700	Valid for diagnostic version 0 - 6, 13, 20	Gear implausible or transmission slips	means that the	_
052	148	PO 700	Valid for diagnostic version 0, 1, 2	Command valve (6, 14 or 25) sticking under pressure	See 13/24 means nothing. the trans. code	
052	148	PO 700	Valid for diagnostic version 3, 4, 5, 6, 13, 20	Torque converter lock-up clutch: unauthorized lock	everything.	mat means
053	149	P0 740	Valid for diagnostic version 0, 1, 2	Torque converter lock-up clutch: not functioning	See □ 13 /18	
053	149	PO 740	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	PO 730	Valid for diagnostic version 0 - 6, 13, 20	Gear comparison or selected gear not attained	See □ 13 /19	
056-059	152 – 155	PO 702	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	PO 702	Valid for diagnostic version 0 - 6, 13, 20	Fault in transmission control module (N15/3)	Wiring, plug connections. N15/3	
065	151		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 \square 22.