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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 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 \Box 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.

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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 DS1 or DS5), 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.

Co	otion (adaption of the E odes stored trans. Module	C), see Ll 11 Codes in ECM	from the	pairs, codes must be erased ECM (Eng. Controle Module ased from the ETC (Trans. Mo		
DTC Hard Code	DTC intermittent	DTC (OBD) USA only	Note	Possible cause	Test step/Remedy 1)	
002	098	PO 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), \Box 23 \Rightarrow 4.0, see \Box 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), \Box 23 \Rightarrow 5.0, see \Box 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	PD 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	P0 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	
007	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), \Box 23 \Rightarrow 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	PO 702	Valid for diagnostic version 0 - 6, 13, 20	Voltage supply to solenoid valves	Wiring, plug connectors. \Box 23 \Rightarrow 3.0	
011	רסו	P0 715	Valid for diagnostic version 0 - 6, 13, 20	Voltage supply to rpm sensors	Wiring, plug connectors. $\Box 23 \Rightarrow 12.0$	
012	108	P0 715	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 715	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	PO 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	E	P0 705	4, 5, 6	invalid	Transmission range recognition switch (S16/10)
018	114	P0 705	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	#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), \Box 23 \Rightarrow 13.0, see \Box 13/17
020	#6		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), \Box 23 \Rightarrow 13.0, see \Box 13/17
021	1 1		Valid for diagnostic version 0 - 6, 13, 20	Circuit 87 voltage supply fault (low or overvoltage)	Wiring, plug connectors. $\Box 23 \Rightarrow 1.0$
022	#8	P0 720	Valid for diagnostic version 0 - 6, 13, 20	CAN: Right rear wheel speed (VSS) from traction system implausible	
623	#9	PO 720	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	Any of these codes that
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 tha
026	122		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 sprt
026	122		Valid for diagnostic version 2, 3, 4, 5, 6, 13, 20	CAN: Pedal value from engine management implausible	set angs out.
D27	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)	
r50	123		Valid for diagnostic version 2, 3, 4, 5, 6, 13	CAN: Adjusted engine torque implausible	
C27	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
829	125		Valid for diagnostic version	CAN: Right engine torque from	See 🗆 13 /17
029	125		2, 3, 4, 5, 6, 13 Valid for diagnostic version	engine management implausible CAN: Minimal engine torque from	See 🗆 13 /17
030	126		20 Valid for diagnostic version	engine management implausible CAN: Communication to traction	
030	126		0, 1 Valid for diagnostic version 2 - 6, 13, 20	System faulty CAN: Altitude correction factor from engine management implausible (This code can be ignored only if	
031	127		Valid for diagnostic version	no code was set in ME-SFI) CAN: Engine management	
160	121		0,1 Valid for diagnostic version 3, 13, 20	communication faulty CAN: Maximum induced engine torque from engine management implausible	
163	121		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	02C 09	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	

רפס	133		Valid for diagnostic version 0 - 5	CAN: All communication faulty	See 🗆 13 /17	
C37	133		Valid for diagnostic version 6, 13, 20	CAN: Line faulty (bus-off)	Check lines from data buse.	
038	134	PO 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	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	191	PO 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	181	PO 700	Valid for diagnostic version 13, 20	CAN: Communication with transfer case control module faulty	(e.g. 041) that has "P" code assigned	
049	145	PO 700	Valid for diagnostic version 6, 13, 20	Excessive engine RPM	it should trigger	the
050	146	PO 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	t
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	ich
051	147	PO 700	Valid for diagnostic version 0 - 6, 13, 20	Gear implausible or transmission slips	See 13/18 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.	It's
052	148	PO 700	Valid for diagnostic version 3, 4, 5, 6, 13, 20	Torque converter lock-up clutch: unauthorized lock	See 13/18 everything.	inat means
053	149	PO 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	20F 09	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.