APPENDIX B-2
Emission Control System Data Parameters

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PARTIAL CONSENT DECREE
MDL No. 2672 CRB (JSC)

EMISSION CONTROL SYSTEM DATA PARAMETERS

Parameters A	Parameters B	English description	nicht verstanden	Alternativvorschlag/Korrektur	Intake Gas System (air and EGR)	Engine mode control	Engine temperatures	Engine dynamics	OBD	Fuel Injection system	Exhaust gas temperatures	Exhaust system incl. SCR	Vehicle dynamics and drivetrain	Other
AFS_dm	AFS_dm	air -mass flow total			X									
AFS_mAirPerCyl	AFS_mAirPerCyl	air-mass per cylinder and cycle			X									
ASMod_dmEG	ASMod_dmEG	Exhaust gas mass flow from engine		Exhaust gas mass flow from engine	X									
ASMod_dmNOxBasLM_mp	ASMod_dmNOxBasLM_mp	NOx mass flow engine out in 'lean-combustion operation Mode'	X	Base NOx mass flow value after combustion in 'lean-combustion operation Mode'	X									
ASMod_dmNOxEG	ASMod_dmNOxEG	NOx mass flow in the exhaust gas engine out			X									
ASMod_dmPFltUs		exhaust gas mass flow DPF upstream (Diesel particle filter)			X									
ASMod_dvolPFltEG		calculated exhaust gas volumetric flow in the particle filter			X									
ASMod_rNOxEG	ASMod_rNOxEG	Relative Amount of NOx emission in exhaust gas engine out		Amount of Nox emission in exhaust gas after combustion	X									
ASMod_tIntMnfDs	ASMod_tIntMnfDs	Temperature of the air mass flow after intake cooler	X	Exhaust gas?	X									
BR1_Rad_kmh	BR1_Rad_kmh	average wheel speed of driven wheels											X	
BR3_Fahrtr_HR	BR3_Fahrtr_HR	driving direction of right frontwheel											X	
BR3_Fahrtr_VR	BR3_Fahrtr_VR	driving direction of right rear wheel											X	
BR5_Bremsdruck	BR5_Bremsdruck	unfiltered brake pressure in the master brake cylinder											X	
	BattU_u	Batterie Voltage												X
CACPmp_r	CACPmp_r	PWM setpoint value for control of the charge-air cooler pump		Reference value of charge-air cooler pump	X									
CACPmp_rAct	CACPmp_rAct	actual PWM value for control of the charge-air cooler pump		Actual position of charge-air cooler pump actuator	X									
CEEgt_stLockScrHeat_VW	CEEgt_stLockScrHeat_VW	Global lock status: SCR heat	X			X								
CEngDsT_t	CEngDsT_t	Coolant temperature engine out		Coolant temperature exiting motor			X							
CEngUsT_t	CEngUsT_t	Coolant temperature engine in		Coolant temperature entering motor			X							

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CEScr_stHeatDem_VW	CEScr_stHeatDem_VW	Status of heating request from SCR coordinator	X						X		
CEScr_tDes_VW	CEScr_tDes_VW	Desired temperature of the SCR catalysator for SCR heating request	X	Desired temperature of the SCR catalyst for SCR heating request					X		
CESys_stOpm_VW_[0]	CESys_stOpm_VW_[0]	Priorized operation modes of system coordinator	X	Priorized operation modes of system coordinator	X						
CL1_Druck	CL1_Druck	refrigerant pressure		coolant pressure							X
CL1_Gebl_last	CL1_Gebl_last	load info of fan control									X
CL1_Kompr_Last	CL1_Kompr_Last	torque loss of the air conditioning system									X
Cpp_trqInrCor_[1]	Cpp_trqInrCor_[0]	Inner torque cylinder 1		adjusted internal torque		X					
	Cpp_trqInrCor_[2]	Inner torque cylinder 3				X					
DFES_ctEntry	DFES_ctEntry	number of allocated fault memory entries					X				
DI1_km_Stand	DI1_km_Stand	mileage				X				X	
DStgy_stNoxCnvPrf_MP	DStgy_stNoxCnvPrf_MP	status word for actual NOx reduction potential of the SCR system	X						X		
	Eng_pAmb_VW	Ambient pressure									X
ETCtl_qPol1	ETCtl_qPol1	correction of injection quantity of Postinjection 1 due to the exhaust gas temperature control	X				X				
ETCtl_qPol2	ETCtl_qPol2	correction of injection quantity of Postinjection 1 due to the exhaust gas temperature control	X				X				
ETCtl_tInrDes	ETCtl_tInrDes	Setpoint value of exhaust gas temperature before turbine of the turbocharger						X			
ETCtl_tOutrDes	ETCtl_tOutrDes	Setpoint value of the exhaust gas temperature DPF upstream						X			
	Exh_dmNOxNSCDs	NOx concentration SCR catalytic converter upstream							X		
Exh_pAdapPPFltDiff	Exh_pAdapPPFltDiff	adjusted differential pressure above particulate filter							X		
Exh_pDiffOfsValAct		actual offset value of the differential pressure above particulate filter							X		
Exh_pDynOfsValPPFltDiff		dynamic differential pressure offset value above the particulate filter							X		

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Exh_pSensPPFlt DiffRel	Exh_pSensPPFltDiffRel	Exhaust gas pressure upstream Particulate Filter relative to ambient pressure	X	correction value delta for fast downstream pressure of the particle filter, which is subtracted from the measured value (Exh_pSensPPFltDiffRelFast) of the relative pressure over particle filter							X	
Exh_rNOxNSCDs	Exh_rNOxNSCDs	NOx concentration after SCR catalytic converter (downstream)									X	
Exh_tSensCelDs _VW	Exh_tSensCelDs_VW	Exhaust gas temperature after Low pressure EGR-cooler								X		
Exh_tSensOxiCat Us_VW	Exh_tSensOxiCatUs_VW	Exhaust gas temperature before oxidation catalyst								X		
Exh_tSensTOxiC atDs	Exh_tSensTOxiCatDs	Exhaust gas temperature after the oxidizing catalyst								X		
Exh_tSensTPFltD s	Exh_tSensTPFltDs	Exhaust gas temperature after the particulate filter								X		
Exh_tSensTTrbn Us	Exh_tSensTTrbnUs	Exhaust gas temperature before turbine of the turbocharger								X		
ExhFlpLP_rAct	ExhFlpLP_rAct	actual actuator position of the exhaust-gas flap	X	actuator position of exhaust-gas flap								
FlSys_dvolFlCons	FlSys_dvolFlCons	Fuel consumption [l/h] from torque-generated injection mass		Fuel consumption [l/h] from torque-generated injection rate				X				
FlSys_dvolFlCons AllTot	FlSys_dvolFlConsAllTot	actual total fuel consumption (incl. supplementary heating)[l/h]						X				
FlSys_volFlCons AllTot	FlSys_volFlConsAllTot	total fuel consumption per driving cycle[ul]						X				
FuelT_t	FuelT_t	fuel temperature						X				
GE_Fahrprogram m	GE_Fahrprogramm	driving program									X	
GE_Sumpftemper atur	GE_Sumpftemperatur	actual temperature of the ATF		actual temperature of the hydraulic oil in the gearbox sump							X	
GE1_WK	GE1_WK	condition of torque converter clutch	X								X	
GE2_akt_Gang	GE2_akt_Gang	actual engaged gear									X	
GE5_Sta_Fahrstu fe	GE5_Sta_Fahrstufe	validity of the engaged gear	X	validity of the Gear Selection							X	
GEC_mChDesLi m_VW	GEC_mChDesLim_VW	limit value of combustion-chamber-charge		limit value of combustion-chamber-charge	X							

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GEC_posnVtg_VW	GEC_posnVtg_VW	desired value for the position of the VTG actuator		desired value for the position of the VTG actuator	X									
GEC_rEgrDesLim_VW	GEC_rEgrDesLim_VW	desired value limit of EGR rate			X									
	GEC_rEgrHpDes_VW	Desired EGR rate high pressure			X									
	GEC_rEgrLpDes_VW	Desired EGR rate low pressure			X									
GEC_rFrcDesLim_VW	GEC_rFrcDesLim_VW	desired value limit of the EGR fraction			X									
GEC_rTvhDesLim_VW	GEC_rTvhDesLim_VW	limited setpoint value for pressure ratio throttle valve	X		X									
GEDC_stRlsOpmReqOxiMonAcv_MP_VW		status word containing release conditions for the operation mode request of active oxicat monitor				X								
GEDFel_rMonPasFil_VW		filtered ratio between modelled and simulated differential pressure above low pressure EGR filter		filtered ratio between modelled and simulated differencial pressures across low pressure EGR filter	X									
GEDFel_rMonPasOfs_VW		actual adaption value for the filtered ratio of the passive monitor	X	actual adaption value for the filtered ratio of the passive monitor					X					
GEDFel_stRls_VW		status word of release conditions for the low pressure EGR filter monitor		status word of release conditions for the low pressure EGR filter diagnosis					X					
GEM_mCh_VW	GEM_mCh_VW	virtual overall mass in cylinder			X									
GEM_mCylAirMfsAdp_VW	GEM_mCylAirMfsAdp_VW	adapted cylinder fresh air mass			X									
GEM_mfBrchHpDs_VW		massflow behind high pressure EGR-branch	X	massflow behind high pressure EGR-branch	X									
GEM_mfBrchLpDs_VW		mass flow behind low pressure EGR-branch			X									
GEM_mfDeMfsAdp_VW	GEM_mfDeMfsAdp_VW	mass flow deviation for calculating adaptation of mass flow sensor			X									
GEM_mfEvh_VW	GEM_mfEvh_VW	massflow through high pressure EGR-valve			X									
GEM_mfEvl_VW	GEM_mfEvl_VW	massflow through low pressure EGR-valve			X									
GEM_mfFuCmbOxi0_VW		maximum convertible fuel mass flow in exhaust gas			X									
GEM_mfMfsAdp_VW	GEM_mfMfsAdp_VW	adapted cylinder fresh air mass flow			X									
GEM_mFuPostInj1_VW		fuel mass for postinjection 1							X					
GEM_posnEvh_VW	GEM_posnEvh_VW	relative position of High Pressure EGR valve			X									

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GEM_posnEvl_VW	GEM_posnEvl_VW	relative position of Low Pressure EGR valve			X					
GEM_posnTvh_VW	GEM_posnTvh_VW	relative position of throttle valve			X					
GEM_posnVtg_VW	GEM_posnVtg_VW	relative position of variable turbine geometry actuator			X					
GEM_rEgr_VW	GEM_rEgr_VW	total EGR ratio			X					
GEM_tCacDs_VW	GEM_tCacDs_VW	temperature downstream of the charge air cooler	X	temperature downstream of the charge air cooler			X			
GEM_tCacUs_VW	GEM_tCacUs_VW	temperature upstream of the charge air cooler		temperature upstream of the charge air cooler			X			
GEM_tPfilSrfc_VW	GEM_tPfilSrfc_VW	temperature of particulate filter surface							X	
GK2_BEM_P_Generator	GK2_BEM_P_Generator	generator power								X
GlbDa_lTotDst	GlbDa_lTotDst	Distance travelled since first start		Distance travelled since first start					X	
GM3_MoSoMom	GM3_MoSoMom	from gearbox requested engine torque							X	
InjCrv_phiMI1CSCCor	InjCrv_phiMI1CSCCor	angle correction of start of main injection	X	start of override control of MI1			X			
	InjCrv_phiPil1Des	Desired injection timing (in angle) for Pilot Injection 1					X			
	InjCrv_phiPil2Des	Desired injection timing (in angle) for Pilot Injection 2					X			
	InjCrv_phiPoI1Des	Desired injection timing (in angle) for Post Injection 1					X			
	InjCrv_phiPoI2Des	Desired injection timing (in angle) for Post Injection 2					X			
	InjCrv_phiPoI3Des	Desired injection timing (in angle) for Post Injection 3					X			
	InjCrv_qPil1Des_mp	setpoint value for injection quantity of Pilot injection 1					X			
	InjCrv_qPil2Des_mp	setpoint value for injection quantity of Pilot injection 2					X			
InjCrv_qPoI1Des_mp	InjCrv_qPoI1Des_mp	setpoint value for injection quantity of postinjection 1					X			
InjCrv_qPoI2Des_mp	InjCrv_qPoI2Des_mp	setpoint value for injection quantity of postinjection 2					X			

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	InjCrv_qPol3Des_mp	setpoint value for injection quantity of postinjection 3								X				
InjCrv_stInjCharSetVal	InjCrv_stInjCharSetVal	setpoint value for injection pattern	X	desired behavior of injection value (simultaneous rotational speed)						X				
InjCtl_qSetUnBal		injection quantity mass without quantity compensation control	X	desired behavior of injection value without amount compensation control						X				
InjSys_qTot	InjSys_qTot	total injection quantity								X				
KO1_Tankinhalt	KO1_Tankinhalt	Remaining fuel quantity in tank	X	Remaining fuel quantity in tank						X				
KO3_Radumfang	KO3_Radumfang	mean wheel circumference in millimeters												X
MO_Heizstrom_SCR	MO_Heizstrom_SCR	Total electric current used for heating SCR system		Total current used for heating SCR system							X			
MO_Istgang	MO_Istgang	actual gear for display in gear shift recommendation											X	
MO_Sollgang	MO_Sollgang	recommended gear for display in gear shift recommendation											X	
MO1_Drehzahl	MO1_Drehzahl	engine speed						X						
MO1_Kup_schalt	MO1_Kup_schalt	clutch switch, only manual transmission.		clutch switch, only manual transmission.									X	
MO1_Pedalwert	MO1_Pedalwert	actual value of accelaerator pedal position		Pedal input value for E-gas cars									X	
MO2_Kuehlm_T	MO2_Kuehlm_T	engine coolant temperature		engine coolant temperature			X							
MO3_Aussentemp	MO3_Aussentemp	ambient air temperature												X
MO5_DPF_reg	MO5_DPF_reg	Bit: DPF-Regeneration active									X			
MO5_Luefter	MO5_Luefter	actual state of radiator fan control via PWM interface												X
MO5_Verbrauch	MO5_Verbrauch	actual Fuel consumption	X							X				
MO6_Ist_Moment	MO6_Ist_Moment	actual torque						X						

EMISSION CONTROL SYSTEM DATA PARAMETERS

				C1	C2	C3	C4	C5	C6	C7	C8	C9
MO7_Ladedruckneu	MO7_Ladedruckneu	Boost pressure	Boost signal for dashboard (Porsche Colorado, PQ35 Bi-Turbo, Audi RS6, TT-R)	X								
MO7_Oeltemp	MO7_Oeltemp	oil temperature						X				
MO7_StaGluehk	MO7_StaGluehk	switch-on state of glow-plug heating in percent										X
PCR_pActVal_VW	PCR_pActVal_VW	Charge air pressure actual value		X								
PCR_pDesVal_VW	PCR_pDesVal_VW	setpoint value for Charge air pressure		X								
PEGRLPDiff_pAdap	PEGRLPDiff_pAdap	adapted value of Low-Pressure EGR differential pressure sensor		X								
PFlt_dmPFltMonEG_mp		monitored exhaust gas mass flow through particulate filter	monitored exhaust gas mass flow through particle filter								X	
PFlt_dvolPFltMonEG_mp		monitored exhaust gas volumetric flow through particulate filter	monitored exhaust gas mass flow through particle filter								X	
PFlt_pAdapPPFltDiffFlt_mp	PFlt_pAdapPPFltDiffFlt_mp	filtered differential pressure above particulate filter	filtered differential pressure at particle filter after PT1								X	
PFlt_pDiffCharMonMinFullL_mp		threshold for minimum differential pressure at loaded particulate filter	measuring point of threshold for minimum differential pressure of fully loaded particle filter characteristic								X	
PFlt_stCondMonChar		release condition for monitoring of particulate filter									X	
PFlt_tiSumRgnMaxTmr		regeneration time of uncomplete regeneration of Particulate filter									X	
PFltLd_mSotMeas	PFltLd_mSotMeas	soot mass of particulate filter calculated from differential pressure above Particulte filter									X	
PFltLd_mSotSim	PFltLd_mSotSim	simulated soot mass of particle filter	simulated soot mass of particle filter								X	
PFltRgn_lSnceRgn	PFltRgn_lSnceRgn	driven distance since last successful regeneration									X	
PFltRgn_numEngPOp	PFltRgn_numEngPOp	state of regeneration after consideration of engine operating state		X							X	
PFltRgn_stIntr	PFltRgn_stIntr	status word for reason of regeneration interruption									X	
PthSet_trqInrSet	PthSet_trqInrSet	setpoint value for internal torque							X			

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	Rail_pSetPoint	setpoint value for rail pressure								X		
RailP_pFlt	RailP_pFlt	actual rail pressure (maximum rail pressure from the past 10ms)								X		
SCRChk_rNOxSensAvrgQlyDetn	SCRChk_rNOxSensAvrgQlyDetn	averaged measured value of NOx-concentration at end of diagnosis							X			
SCRChk_rNOxThdAvrgQlyDetn	SCRChk_rNOxThdAvrgQlyDetn	avaraged threshold value for NOx-concentration at end of diagnosis							X			
SCRCtl_tAvrg	SCRCtl_tAvrg	average temperature in Urea (DEF)-Tank	X	filtered temperature SCR								X
SCRFFC_dmNOxUs	SCRFFC_dmNOxUs	NOx mass flow upstream of SCR-System	X	Untreated NOx emmission								X
SCRFFC_rPPMNOxUs	SCRFFC_rPPMNOxUs	Untreated NOx emission upstream of SCR-catalytic-converter	X	Untreated NOx emission								X
SCRFFC_rPPMNOxUsCat2	SCRFFC_rPPMNOxUsCat2	Untreated NOx emission upstream of underfloor NH3 slip catalyst	X	Untreated NOx emission								X
SCRLdG_dmNH3Limit_mp	SCRLdG_dmNH3Limit_mp	maximum actual NH3 dosing quantity		NH3 dosage limit in SCRCat								X
SCRLdG_dmNH3MetAdap	SCRLdG_dmNH3MetAdap	adapted NH3 dosing quantity										X
SCRLdG_dmRdcAgtLimitVehVNox_MP	SCRLdG_dmRdcAgtLimitVehVNox_MP	NH3 dosing quantity limitation dependent on vehicle speed and NOx mass flow										X
SCRLdG_mNH3LdNom	SCRLdG_mNH3LdNom	setpoint value for NH3 level inSCR catalytic converter	X	NH3 tank fluid level full								X
SCRLdG_mNH3LimBuf	SCRLdG_mNH3LimBuf	NH3 level of reserve storage		mNH3 reserve tank fluid level								X
SCRMod_mEstNH3Ld	SCRMod_mEstNH3Ld	current value of NH3-level in SCR catalytic converter		actual mNH3 tank fluid level								X
SCRMod_rPPMNH3Slip	SCRMod_rPPMNH3Slip	NH3 slip										X
SCRMod_tAvrg	SCRMod_tAvrg	mean temperature of SCR catalytic converter		average temperature of SCR catalyst								X
SCRMon_stRelsPCtrl	SCRMon_stRelsPCtrl	status of release-conditions for transition to the condition PRESSURECONTROL		status of release for transition to the NOPRRESSURECONTROL condition								X
UDC_dmRdcAgAct	UDC_dmRdcAgAct	actual mass flow of reducing agent	X	actual dosed mass flow of reductant								X
UDC_dmRdcAgDesCoPr	UDC_dmRdcAgDesCoPr	mass flow setpoint of reducing agent for component protection function		desired dosage of component protection function								X
UDC_mRdcAgDosQnt	UDC_mRdcAgDosQnt	longtime dosing quantity										X

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UDC_mRdcAgDosQntTmp_mp	UDC_mRdcAgDosQntTmp_mp	temporary dosing quantity										X		
UDosVlv_rPs	UDosVlv_rPs	duty cycle of output signal of dosing valve output stage	X									X		
	UEGO_rLamS1B1	Current value of Lambda Sensor										X		
UEGO_stLamQlyS1B1	UEGO_stLamQlyS1B1	signal quality of lambda sensor	lambda signal quality sensor 1 Bank 1					X					
UTnkCLS_stSens	UTnkCLS_stSens	status signal of the combined level- and temperature sensor in Urea Tank										X		
	Veh_v_VW	Vehicle speed											X	

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