

**9DF - 46 40 - Functional Part List**

Function	Sub-Function	Sub-Function	Operation Name	Operation Description		sw_old module name	APPL/BAS	Doclink TCE Code / CRF documentation	Status / SRO
<b>F1 Air</b>									
F1	1		<b>Engine Charge Estimation</b>		I/O				
F1	1		<b>AFLOWMETER</b>	Air Flow and temperature sensor acquisition	RILU SRO SDT	aflowmeter	BAS		AFLOWMETER/XX_01_05_03_00
F1	1		<b>AIRSYSMDL</b>	EGR Hp-Lp mass flow estimation	RILU SRO SDT	new	APPL	TAB	AIRSYSMD/DMX_00_03_00_00
F1	1		<b>INTKTDIAG</b>	Intake air temperature fonctionnal diagnosis	RILU SRO SDT	new	APPL	TAB	INTKTDIAG/DMF_01_00_00_00
F1	1		<b>DEBM</b>	Debimeter Management	RILU SRO SDT	debm	APPL	TAB	DEBM/DMF_00_03_01_00
F1	1		<b>INTKS</b>	Intake storage model	RILU SRO SDT	new	APPL	TAB	INTKS/DMF_E6_01_00_00
F1	1		<b>VEFF</b>	Volumetric efficiency model	RILU SRO SDT	new	APPL	TAB	VEFF/DMF_E6_01_00_00
F1	1		<b>CYLCHG</b>	Cylinder charge model	RILU SRO SDT	new	APPL	TAB	CYLCHG/DMF_01_01_00_00
F1	1		<b>TRANSDLY</b>	Transport delay model	RILU SRO SDT	new	APPL	TAB	TRANSDLY/DMF_E6_01_00_00
F1	1		<b>PRES</b>	Boost pressure and atmosferic pressure acquisition	RILU SRO SDT	pres	APPL		PRES/9DX_01_00_00_00
F1	1		<b>TAMB</b>	External air Temperature	RILU SRO SDT	tamb	APPL	00036252	C.2
F1	1		<b>AIRTDIAG</b>	Air Temperature Diagnosis	RILU SRO SDT	algdgn	APPL	TAB	AIRTDIAG/DMF_E6_01_00_00
F1	1		<b>TEMP</b>	Temperature and auxiliary fields management	RILU SRO SDT	new	APPL	TAB	TEMP/DMF_04_01_00_00
F1	2		<b>Engine Charge Control</b>		I/O				
F1	2		<b>DAIR</b>	Air system diagnosis	RILU SRO SDT	dair	APPL	TAB	DAIR/DMX_01_03_00_00
F1	2		<b>SHENG</b>	Engine off by throttle management	RILU SRO SDT	sheng	APPL	00061921	D.3
F1	2		<b>THRREF</b>	Throttle valve reference calculation	RILU	new	APPL	TAB	THRREF/DMF_00_04_01_00

F1	2		THRSWT	Throttle valve reference switching	SRO SDT	new	APPL	TAB	THRSWT/DMF_00_04_01_00
F1	2		CTVA	Throttle position control	RILU SRO SDT	ctva	BAS		CLPC/XX_1FDBK_06_06_00
F1	2		CMGMTVA	Tva MM recovery actions managemets	RILU SRO SDT	cmgmtva	BAS		CMGMTVA/XX_00_04_02_00
F1	3		<b>Supercharging</b>						
F1	3		PINTKREF	Intake pressure reference	RILU SRO SDT	gvgt	APPL	TAB	PINTKREF/DMF_00_02_00_00
F1	3		PEXH	Exhaust manifold pressure estimator	RILU SRO SDT	pexh	APPL	00093491	A.1
F1	3		CMPRCOORR	Turbocompressor coordinator	RILU SRO SDT	gvgt	APPL		CMPRCOORR/DMF_E6_01_00_00
F1	3		CMPRREF	Turbocompressor position precontrol	RILU SRO SDT	gvgt	APPL	TAB	CMPRREF/DMF_00_04_00_00
F1	3		CMPRCTRL	Turbocompressor control	RILU SRO SDT	gvgt	APPL	TAB	CMPRCTRL/DMF_00_01_00_00
F1	3		CMGMVGT	Turbocompressor management	RILU SRO SDT	cmgmvgt	BAS		CMGMVGT/KKK_00_04_01_00
F1	3		CVGT	Turbocompressor position control	RILU SRO SDT	cvgt	BAS		CLPC/XX_1FDBK_06_06_00
F1	3		GVGT	VGT turbocharging management	RILU SRO SDT	gvgt	APPL	TAB	GVGT/9DX_01_01_02_00
F1	4		<b>Variable Valve Timing</b>						
F1	4		COMAIR	Multiair coordinator	RILU SRO SDT	new	APPL	TAB	COMAIR/DMF_E6_01_00_00
F1	5		<b>Intake Geometry management</b>						
F1	5								
F1	6		<b>EGR Management</b>						
F1	6		EGRREF	Air quantity reference calculation	RILU SRO SDT	gegr	APPL	TAB	EGRREF/DMF_E6_02_00_00
F1	6		EGRCOORR	EGR coordinator	RILU SRO SDT	gegr	APPL	TAB	EGRCOORR/DMF_00_04_01_00
F1	6		EGRHPEOL	High pressure EGR position precontrol	RILU SRO SDT	gegr	APPL	TAB	EGRHPEOL/DMF_00_02_00_00
F1	6		EGRHPECTRL	High pressure EGR control	RILU SRO SDT	gegr	APPL	TAB	EGRHPECTRL/DMF_00_04_00_00
					RILU				

F1	6		<b>CEGR</b>	High pressure EGR position control	SRO SDT	cegr	BAS		CLPC/XX_1FDBK_06_06_00
F1	6		<b>CMGMEGR</b>	High pressure EGR recovery actions management	RILU SRO SDT	cmgmegr	BAS	TAB	CMGMEGR/XX_00_05_01_00
F1	6		<b>EGRLPEOL</b>	Low pressure EGR position precontrol	RILU SRO SDT	gegr	APPL	TAB	EGRLPEOL/DMF_00_02_00_00
F1	6		<b>EGRLPECTRL</b>	Low pressure EGR control	RILU SRO SDT	gegr	APPL	TAB	EGRLPECTRL/DMF_00_04_00_00
F1	6		<b>CEGRLP</b>	Low pressure EGR position control	RILU SRO SDT	new	BAS		CLPC/XX_1FDBK_06_06_00
F1	6		<b>CMGMLREGR</b>	Low pressure EGR recovery actions management	RILU SRO SDT	new	BAS		CMGMLREGR/XX_00_04_01_00
F1	6		<b>EGRSWT</b>	EGR control switching	RILU SRO SDT	new	APPL	TAB	EGRSWT/DMF_00_04_02_00
F1	6		<b>EGRAUX</b>	EGR auxiliary functions	RILU SRO SDT	new	APPL	TAB	EGRAUX/DMF_00_06_02_00
F1	6		<b>EGRSNSR</b>	EGR virtual sensors	RILU SRO SDT	new	APPL	TAB	EGRSNSR/DMF_E6_02_00_00
F1	6		<b>EGRVLV</b>	EGR actuator models	RILU SRO SDT	new	APPL	TAB	EGRVLV/DMF_E6_01_00_00
F1	6		<b>GEGRCB</b>	EGR cooler bypass control	RILU SRO SDT	gegrcb	APPL		GEGRCB/9DX_01_00_00_00
F1	6		<b>CEGRCB</b>	EGR cooler bypass position control	RILU	cegrcb	BAS	TAB	OLPC/XX_02_02_00_01
<b>F2 Fuel</b>									
F2	1		<b>Fuel Delivery Control</b>		I/O				
F2	1	1	Injection Time Command						
F2	1	1	<b>INJCORRN</b>	Quantity Corrections due to injectors	RILU SRO SDT	new	APPL	TAB	INJCORRN/DMF_E6_01_00_00
F2	1	1	<b>ETPILPRE</b>	Energizing time calculation for pilot and pre injections	RILU SRO SDT	new	APPL	TAB	ETPILPRE/DMF_00_04_00_00
F2	1	1	<b>ETMAIN</b>	Energizing time calculation for main injections	RILU SRO SDT	new	APPL	TAB	ETMAIN/DMF_00_04_00_00
F2	1	1	<b>ETAFT</b>	Energizing time calculation for after injections	RILU SRO SDT	new	APPL	TAB	ETAFT/DMF_00_03_00_00
F2	1	1	<b>ETPOST</b>	Energizing time calculation for post injections	RILU SRO SDT	new	APPL	TAB	ETPOST/DMF_00_04_00_00
F2	1	1	<b>ETPRAIL</b>	Energizing time for Over Pressure Management and Rail Pressure Reduction	RILU SRO SDT	new	APPL	TAB	ETPRAIL/DMF_00_01_00_00
F2	1	1	<b>INJPHCHK</b>	Start Of Injection and Dwell Time check	RILU SRO SDT	new	APPL	TAB	INJPHCHK/DMF_00_04_00_00
F2	1	1	<b>INJMGM</b>	Injections management	RILU SRO SDT	new	APPL	TAB	INJMGM/DMF_00_04_00_00

F2	1	1	INJD	Injection actuation control	RILU SRO SDT	inj	BAS	TAB	INJD/DMF_00_05_00_00
F2	1	1	ENGT	Transient condition detection	RILU SRO SDT	new	APPL	00096120	A.1
F2	1	1	ETTASK	ET Task programming	RILU SRO SDT	new	APPL	TAB	ETTASK/DMF_E6_01_00_00
F2	1	2	Injector Drift Compensation						
F2	1	2	SICU	Small injections correction by lambda sensor	RILU SRO SDT	sicu	APPL		SICU/DMX_00_02_00_00
F2	1	2	SIC	Small injections correction	RILU SRO SDT	sic	APPL		SIC/DMX_02_01_00_00
F2	1	2	QIMA	IMA classification	RILU SRO SDT	qima	APPL		QIMA/DMX_02_01_01_00
F2	1	2	ECB	Fuel balancing control	RILU SRO SDT	ecb	APPL		ECB/DMX_00_03_00_00
F2	1	2	CALCMDC	Cylinders Balancing	RILU SRO SDT	calcmdc	APPL	00029508	A.4
F2	2	Rail Pressure Management							
F2	2		RAILPRES	Rail pressure sensor acquisition	RILU SRO SDT	pres	APPL		PRES/9DX_01_00_00_00
F2	2		GPRAIL	Rail pressure control coordinator	RILU SRO SDT	gprail	APPL	TAB	GPRAIL/DMF_01_01_00_00
F2	2		GHPUMP	High Pressure Pump Coordinator	RILU SRO SDT	ghpump	APPL	TAB	GHPUMP/DMX_00_01_00_00
F2	2		PRAILCTRL	Rail Pressure Control	RILU SRO SDT	new	APPL	TAB	PRAILCTRL/DMX_00_02_00_00
F2	2		CMPROP	Rail pressure pump actuator control	RILU SRO SDT	cmprop	BAS		CMPROP/XX_02_01_05_00
F2	2		GLPUMP	Low Pressure Pump Management	RILU SRO SDT	glpump	APPL	00066656	G.1
F2	2		GBLOW	Blow By Heater Management	RILU SRO SDT	gblow	APPL	00095181	C.1
F2	2		DPRAIL	Rail pressure system diagnosis	RILU SRO SDT	dprail	APPL	00082891	E.5
F2	2		INJPRES	Rail pressure control by DRV	RILU SRO SDT	injpres	APPL	00059258	C.1
F2	2		PRAILREF	Rail pressure reference	RILU SRO SDT	new	APPL	TAB	PRAILREF/DMX_00_02_00_00
F2	2		BBHREL	Blow By Heater Management relay	RILU SRO SDT	crelay	BAS		CRELAY/XX_01_05_03_00
F2	2		BBHREL	Blow By Heater Management relay	RILU				CRELAY/XX_01_05_03_00

F2	2		BBHREL2	Blow By Heater Management relay	SRO SDT	crelay	BAS		CRELAY/XX_01_05_03_00
F2	3		<b>Gas Management</b>						
F2	4		<b>Canister Management</b>						
F2	5		<b>Fuel Estimation</b>		I/O				
F2	5		FUEL_HEAT_MGM	Fuel heater management	RILU SRO SDT	fuel_heat_mgm	APPL	00030864	A.4
F2	5		FUELTDIAG	Fuel Temperature Diagnosis	RILU SRO SDT	new	APPL	TAB	FUELTDIAG/DMF_01_00_00_00
F2	5		FUHEATRMGR	Fuel heater management	RILU SRO SDT	new	APPL	TAB	FUHEATRMGM/DMX_00_00_01_01
F2	5		FFHREL	Fuel Filter heater relay command	RILU SRO SDT	crelay	BAS		CRELAY/XX_01_05_03_00
F2	5		WTANK	Water in fuel detection	RILU SRO SDT	wtank	APPL	00030029	C.1
F2	5		AWATCFUEL	Digital Water in fuel Acquisition	RILU SRO SDT	aposswt	BAS	TAB	APOSSWT/XX_01_00_00_01
F2	5		GFSF	Safety fuel shut-off	RILU SRO SDT	gsfs	APPL	00076586	C.3
F2	5		CONS	Fuel consumption estimation	RILU SRO SDT	cscm	APPL		CONS/DMX_00_02_00_00
F2	5		FLEV	Fuel level acquisition	RILU	fdbk	APPL	00030030	A.2
<b>F3 Mixture</b>									
F3	1		<b>Lambda Management</b>		I/O				
F3	1	1	<b>Lambda Measurement</b>		I/O				
F3	1	1	HO2L	Upstream Lambda Sensor Heating Management	RILU SRO SDT	ho2l	BAS		HO2L/XX_01_02_00_00
F3	1	1	AO2L	Upstream Lambda Linear Sensor Signal Acquisition & Diagnosis	RILU SRO SDT	ao2l	BAS		AO2L/XX_01_02_02_00
F3	1	1	AO2L2	Upstream Lambda Linear Sensor Signal Acquisition & Diagnosis	RILU SRO SDT	ao2l2	BAS		AO2L/XX_01_02_02_00
F3	1	1	HO2L2	Upstream Lambda Sensor Heating Management	RILU SRO SDT	ho2l2	BAS		HO2L/XX_01_02_00_00
F3	1	2	<b>Lambda Control</b>		I/O				
F3	1	2	AFCD	Air Fuel Ratio Control	RILU SRO SDT	afcd	APPL	TAB	AFCD/9DX_01_02_00_00
F3	1	2	DUO2	Water splash management	RILU SRO SDT	duo2	APPL	00061041	C.1
F3	1	2	DUO22	Water splash management 2	RILU SRO SDT	new	APPL	TAB	DUO22/DMF_00_00_00_00
F3	1	2	DUO2F	Water splash management (physical model)	RILU SRO SDT	duo2f	APPL	00062560	A.1

F3	1	2	GLAM	Lambda Management	RILU SRO SDT	glam	APPL	TAB	GLAM/DMF_00_03_00_00
F3	1	2	UGD	Uego Gain Detection	RILU SRO SDT	ugd	APPL	TAB	UGD/DMX_03_00_01_00
F3	1	2	UGD2	Second uego gain detection	RILU SRO SDT	new	APPL	TAB	UGD2/DMX_00_00_01_00
F3	2	Mixing			I/O				
F3	2		SWIRLREF	Swirl position reference	RILU SRO SDT	swirl	APPL	TAB	SWIRLREF/DMF_E6_01_00_00
<b>F4 Ignition</b>									
F4	1	Energizing Time Control			I/O				
F4	2	Glowing							
F4	2		GGLOW	Glow Plug Management	RILU SRO SDT	gglow	APPL		GGLOW/DMF_00_01_00_00
F4	2		CGLOWH	Glow Plug Temperature Control (high voltage)	RILU SRO SDT	cglowh	BAS		CGLOWH/XX_01_04_00
F4	2		CGLOW	Glow Plug Temperature Control	RILU SDT	cglow	BAS	TAB	CGLOW/XX_02_11_00_00
<b>F5 Combustion</b>									
F5	1	IMEP Generation			I/O				
F5	1		COMFB	Mass fraction burned control coordinator	RILU SRO SDT	new	APPL	TAB	COMFB/DMF_E6_01_00_00
F5	1		COBASE	Base modes coordinator	RILU SRO SDT	new	APPL	TAB	COBASE/DMF_00_04_00_01
F5	1		COEOM	Engine operating modes coordinator	RILU SRO SDT	new	APPL	TAB	COEOM/DMF_00_05_00_00
F5	1		COEXT	External demands coordinator	RILU SRO SDT	new	APPL	TAB	COEXT/DMF_00_05_00_00
F5	1		RMFB	Mass fraction burned control reference	RILU SRO SDT	new	APPL	TAB	RMFB/DMF_E6_01_00_00
F5	1		CMFB	Mass fraction burned control	RILU SRO SDT	new	APPL	TAB	CMFB/DMF_E6_02_00_00
F5	1		CRK	Cranking references	RILU SRO	crk	APPL	TAB	CRK/DMF_00_01_00_00
F5	1			Torque to quantity calculation	RILU SRO SDT	tqev	APPL	TAB	/DMF_E6_01_00_00
F5	1		INJQMAIN	Quantity calculation for main injections	RILU SRO SDT	new	APPL	TAB	INJQMAIN/DMF_00_03_00_00
F5	1		INJQPRE	Quantity calculation for Pre Injection	RILU SRO SDT	new	APPL	TAB	INJQPRE/DMF_02_01_00_00
F5	1		INJQPIL	Quantity calculation for Pilot Injection	RILU SRO SDT	new	APPL	TAB	INJQPIL/DMF_02_01_00_00
					RILU				

F5	1		INJQAF1	Quantity calculation for After 1 Injection	SRO	new	APPL	TAB	INJQAF1/DMF_00_04_00_00
F5	1		INJQAF2	Quantity calculation for After 2 Injection	RILU	new	APPL	TAB	INJQAF2/DMF_00_04_00_00
F5	1		INJPHMAIN	Start of Injection and Dwell Time management for main injections	SRO				
					RILU	injphas	APPL	TAB	INJPHMAIN/DMF_E6_02_00_00
F5	1		INJPHPRE	Start of Injection and Dwell Time management for Pre injections	SRO				
					RILU	injphas	APPL	TAB	INJPHPRE/DMF_E6_01_00_00
F5	1		INJPHPIL	Start of Injection and Dwell Time management for Pilot injection	SRO				
					RILU	injphas	APPL	TAB	INJPHPIL/DMF_E6_01_00_00
F5	1		INJPHAFT1	Start of Injection and Dwell Time management for After injection	SRO				
					RILU	injphas	APPL	TAB	INJPHAFT1/DMF_E6_01_00_00
F5	1		INJPHAFT2	Start of Injection and Dwell Time management for After 2 injection	SRO	new	APPL	TAB	INJPHAFT2/DMF_E6_01_00_00
F5	1		LAMREF	Lambda reference	RILU	qlimtot	APPL	TAB	LAMREF/DMF_E6_02_00_00
F5	1		IMEPCTRL	Torque control by cylinder pressure sensors	SRO	new	APPL	TAB	IMEPCTRL/DMF_E6_00_00_00
F5	1		T3LIM	Turbine protection from excessive inlet temperature	RILU	t3lim	APPL	00084877	A.1
F5	1		AFTCTRL	Aft Injection Control	SRO	new	APPL	TAB	AFTCTRL/DMF_E6_02_00_00
F5	1		AFTREF	Aft Injection Control Reference	RILU	new	APPL	TAB	AFTREF/DMF_00_02_00_00
F5	1		CTRQ	Torque to quantity calculation	SRO	new	APPL	TAB	CTRQ/DMF_00_03_00_00
F5	2		<b>Knocking Control</b>		SRO				
F5	3		<b>Combustion Estimation</b>		I/O				
F5	3		PCOMBIND	Cylinder pressure sensors diagnosis	RILU	new	APPL	TAB	PCOMBIND/DMF_E6_01_00_00
F5	3		FCOMBIND	Combustion index and torque by phonic wheel	SRO	new	APPL	TAB	FCOMBIND/DMX_00_01_01_00
F5	3		TRQEST	Torque Estimation	RILU	new	APPL	TAB	TRQEST/9DX_00_01_00_00
F5	3		CPS	Cylinder pressure sensors	SRO	new	BAS		CPS/DMF_E6_01_00_00
F6	2		CCLC	Torque estimation	RILU	cclc	APPL	00038346	C.1
F6	2		ACLC	Torque compensation due to flywheel asymmetries	SRO	aclc	APPL	00057407	F.2
F5	3		ESWA	FlyWheel Signal Correction for SIC	RILU	eswa	APPL	00058673	A.2

F5	4	Noise Reduction							
<b>F6 Vehicle</b>									
F6	1	Driver/Vehicle Interface							
F6	1	1	Driver Interface		I/O				
F6	1	1	KEYM	Key Acquisition	RILU SRO SDT	Dinp_Key	APPL	00030446	A.1
F6	1	1	SLPOSPED	Accelerator Pedal Position Learning	RILU SRO SDT	slposped	BAS		SLPOSPED/XX_01_01_00_00
F6	1	1	IPDL	Accelerator Pedal Position Measurement	RILU SRO SDT	aposped	BAS		APOSPED/XX_CONT_01_07_00
F6	1	1	CLUT	Clutch Pedal Position Measurement	RILU SRO SDT	aposclt	BAS		APOSCLT/XX_2SWTAN_02_04_00
F6	1	1	SLPOSCLT	Self learning analog clutch	RILU SRO SDT	slposclt	BAS		SLPOSCLT/XX_01_03_00_00
F6	1	1	DCLT	Clutch Deterioration Evaluation Procedure	RILU SRO SDT	new	APPL		DCLT/XX_00_01_00_00
F6	1	1	APRESSB	Pressure of servo-Brake Actuator	RILU SRO SDT	aposswt	BAS	TAB	APOSSWT/XX_01_00_00_00
F6	1	1	GSI	Gear Shift Indication	RILU SRO SDT	gsi	APPL	00085290	F.2
F6	1	1	GSIM	Gear Shift Indicator Management	RILU SRO SDT	gsim	APPL	TAB	GSIM/XX_01_06_00_00
F6	1	1	PBRA	Brake Boost Pressure Diagnosis	RILU SRO SDT	pbra	APPL	00085120	B.5
F6	1	1	BRAK	Brake Signal Acquisition	RILU SRO SDT	brake	BAS		BRAK/XX_00_03_00_00
F6	1	1	APOSNG	Neutral Gear Position Sensor Acquisition & Diagnosis	RILU SRO SDT	aposng	BAS		APOSNG/XX_01_03_02_00
F6	1	1	NEUTR	Neutral plausibility diagnosis	RILU SRO SDT	neutr	APPL		NEUTR/DMX_00_03_00_00
F6	1	1	NGSL	Neutral gear self learning	RILU SRO SDT	new	APPL	NGSL_IO_Interface	NGSL/XX_00_03_00_00
F6	1	1	GLVV	Vehicle Speed Limiter	RILU SRO SDT	glvv	APPL		GLVV/DMX_01_02_00_00
F6	1	1	CKIS	Clutch kiss point learning	RILU SRO SDT	new	APPL	TAB	CKIS/XX_01_02_00_00
F6	1	2	Cruise Control		I/O				
F6	1	2	BRVV	Vehicle Speed Feedback Regulator	RILU SRO SDT	brvv	APPL		BRVV/XX_02_04_00_02
F6	1	2	IRVV	Cruise Control Signal Acquisition	RILU SRO SDT	irvv	APPL		IRVV/XX_01_08_00_00
					RILU				



F6	1	2	GRVV	Vehicle Speed Target Management	SRO SDT	grvv	APPL		GRVV/XX_02_05_01_00
F6	1	2	AMGMCC	Cruise Control Console Management	RILU SRO SDT	new	BAS		AMGMCC/XX_01_02_00_02
F6	2	Engine Torque Estimation			I/O				
F6	2		VSPD	Vehicle speed measurement and gear identification	RILU SRO SDT	vspd	APPL	TAB	VSPD/DMF_E6_01_00_00
F6	2		ICPC	Loads Compensation interface	RILU SRO SDT	new	APPL		ICPC/DX_01_02_00_00
F6	2		VELV	Vehicle speed measurement for FIATLAN	RILU SRO SDT	velv	APPL	00072995	A.1
F6	2		VELVW	Vehicle speed acquisition by wire for FIATLAN	RILU SRO SDT	velvw	APPL	00066141	A.4
F6	2		SURDAM	Driveability	RILU SRO SDT	surdam	APPL		SURDAM/DMX_00_03_02_00
F6	2		LRPM	Speed Limiter	RILU SRO SDT	lrpm	APPL	TAB	LRPM/DMF_E6_01_00_00
F6	2		ECMF	Friction Torque Estimation	RILU SRO SDT	fqty	APPL		ECMF/DX_00_02_00_00
F6	2		REVGEAR	Revers Gear Acquisition	RILU SRO SDT	revgear	APPL	00061913	D.3
F6	3	Torque Management			I/O				
F6	3		GALT	Smart alternator torque estimation	RILU SRO SDT	galt	APPL	00095325	A.1
F6	3		GCMi	Target Mit Calculation	RILU SRO SDT	gcmi	APPL		GCMi/DX_00_02_00_00
F6	3		TLIM	Torque Limitation	RILU SRO SDT	tlim	APPL		TLIM/DX_00_03_00_00
F6	3		EPRT	Engine Protection Torque	RILU SRO SDT	eprt	APPL		EPRT/DX_00_03_00_01
F6	3		GERT	External Requested Torque Management	RILU SRO SDT	gert	APPL		GERT/DX_00_03_00_00
F6	3		GDRI	Driver Torque Interpretation	RILU SRO SDT	gdri	APPL		GDRI/DX_01_03_00_00
F6	4	Engine Speed Control			I/O				
F6	4		LIGCS	Low-idle governor state calculation	RILU SRO SDT	new	APPL	TAB	LIGCS/DMF_E6_00_00_01
F6	4		LIGCSP	Low-idle governor setpoint speed calculation	RILU SRO SDT	new	APPL	TAB	LIGCSP/DMX_00_00_00_00
F6	4		LIGMD	Low-idle governor mark demands	RILU SRO SDT	new	APPL	TAB	LIGMD/DMF_E6_00_00_01
					RILU				

F6	4		LIGOV	Low-idle governor	SRO	new	APPL	TAB	LIGOV/DMF_E6_00_00_00
F6	4		LIGSP	Low-idle Governor parameter set selection	RILU				
					SRO	new	APPL	TAB	LIGSP/DMF_E6_00_00_01
					SDT				
F6	4		IDLE	Idle controller	RILU	idle	APPL	00059127	R.8
					SRO				
					SDT				
F6	4		IDLEREF	Idle set-point definition	RILU	idleref	APPL		IDLEREF/DMX_01_06_00_00
					SRO				IDLEREF_IO Interface
					SDT				
F6	4		IDLESEL	Idle Selector	RILU	new	APPL	TAB	IDLESEL/DMF_E6_00_00_00
					SRO				
					SDT				
F6	4		BIEL	Electric balance	RILU	biel	APPL	00032907	A.7
					SRO				
					SDT				
F6	5		Synchronization		I/O				
F6	5		ECUS	Ecu State	RILU	ecus	APPL	00029519	U.2
					SRO				
					SDT				
F6	5		TDCC	Position of the top dead center calibration	RILU	new	APPL	TAB	TDCC/DMF_E6_01_00_00
					SRO				
					SDT				
F6	5		TDPC	Top dead center positioning	RILU	new	APPL	TAB	TDPC/DMF_E6_01_00_00
					SRO				
					SDT				
F6	5		SYNCMGM	Flywheel Synchronization Maganement	RILU	syncmgm	BAS		SYNCMGM/XX_00_04_03_03
					SRO				
					SDT				
F6	5		ABHN	Flywheel and Cam shaft signals management	RILU	abhn	APPL		ABHN/DMF_E6_00_00_00
					SRO				
					SDT				
F6	5		SYNCDVRS	Flywheel Synchronization Diagnosis	RILU	syncdvrs	BAS		SYNCDVRS/XX_01_02_02_00
					SRO				
					SDT				
F6	5		ENGSPED	Engine speed acquisition Cranking state selection	RILU	engspeed	APPL		ENGSPED/DMX_02_00_00_01
					SRO				
					SDT				
F6	5		GSTART_SS	Starter Management for S&S	RILU	gstart_ss	APPL		GSTART_SS/DMX_00_03_00_02
					SRO				
					SDT				
F6	5		CTACH *	Tachout hw management	RILU	cpwm	BAS		CPWM/XX_00_02_00_00
					SRO				
					SDT				
F6	5		ACAM	RPM Phase Acquisition	RILU	acam	BAS		ACAM/XX_01_03_06_00
					SRO				
					SDT				
F6	5		DCAM	RPM Phase Diagnosis	RILU	dcam	BAS		DCAM/XX_01_03_04_01
					SRO				
					SDT				
F6	5		RVRS	Engine Speed Acquisition	RILU	rvrs	BAS		RVRS/XX_01_02_03_00
					SRO				
					SDT				
F6	5		SREL	Starter relay control and diagnosis	RILU	crelay	BAS		CRELAY/XX_01_05_03_00
					SRO				
					SDT				
F6	5		GDMF	Dual mass flywheel management	RILU	gdmf	APPL	00070713	C.3
					SRO				
					SDT				

F6	6	<b>Air Conditioning Management</b>			I/O				
F6	6		<b>ACMGM</b>	Air Conditioner Management	RILU SRO SDT	acmgm	APPL	TAB	ACMGM/DMF_00_01_01_00
F6	7	<b>Engine Thermal State Management</b>			I/O				
F6	7		<b>APRESOIL</b>	Oil Pressure Acquisition	RILU SRO SDT	aposswt	BAS	TAB	APOSSWT/XX_01_00_00_01
F6	7		<b>APRESOILH</b>	Oil Pressure Acquisition 2	RILU SRO SDT	aposswt	BAS	TAB	APOSSWT/XX_01_00_00_01
F6	7		<b>AFREQSDI *</b>	Oil Level Sensor Acquisition	RILU SRO SDT	afreqsdi	BAS	TAB	AFREQSDI/XX_01_00_00_01
F6	7		<b>FANMGM</b>	Fan Management	RILU SRO SDT	fanmgm	APPL	TAB	FANMGM/DMF_00_01_02_00
F6	7		<b>FANDCD</b>	Fan Decoder	RILU SRO SDT	fandcd	APPL	TAB	FANDCD/DMF_E6_00_00_00
F6	7		<b>FANDRV</b>	Fan Driver	RILU SRO SDT	fandrv	APPL	TAB	FANDRV/DMF_00_00_01_00
F6	7		<b>OILPUMP</b>	Variable Displacement Oil Pump Management	RILU SRO SDT	oilpump	APPL		OILPUMP/DMX_02_03_00_00
F6	7		<b>LOIL_A</b>	Oil Level Sensor Management	RILU SRO SDT	loil_a	APPL	00092127	E.4
F6	7		<b>OIL_LEVEL</b>	Oil Level Acquisition	RILU SRO SDT	oil_level	APPL	00059354	C.3
F6	7		<b>OLMGM</b>	Oil life monitoring	RILU SRO SDT	olmgm	APPL		OLMGM/DMX_01_05_01_00
F6	7		<b>CVDPOIL</b>	Variable Displacement Oil Pump Control	RILU SRO SDT	crelay	BAS		CRELAY/XX_01_05_03_00
F6	7		<b>TOIL</b>	Oil Temperature estimation	RILU SRO SDT	toil	APPL	00036704	A.1
F6	8	<b>Auxiliary Function</b>			I/O				
F6	8		<b>ALIM</b>	Battery Voltage Measurement	RILU SRO SDT	alim	APPL	TAB	ALIM/DMF_E6_01_00_00
F6	8		<b>ENGTEST</b>	Engine Temperature Estimation	RILU SRO SDT	new	APPL	TAB	ENGTEST/DMF_E6_00_00_00
F6	8		<b>MREL</b>	Main relay control and diagnosis	RILU SRO SDT	crelay	BAS		CRELAY/XX_01_05_03_00
F6	8		<b>SREL</b>	Double relay diagnosis for Stop/Start function	RILU SRO SDT	srelp	APPL	00085345	B.16
F6	8		<b>ALTMGM</b>	Alternator management	RILU SRO SDT	altmgm	APPL	00039267 00039280	C.2 L.5
F6	8		<b>SAMI</b>	Smart Alternator management	RILU SRO	sami	APPL	TAB	SAMI/MM_00_11_00_00

F6	8		SAME	Smart Alternator management	IO	SWHM	FILE	TYPE	
					SDT				SAML IO Interface
F6	8		SHREL1	Supplementary Heater Rele Control	RILU	crelay	BAS		CRELAY/XX_01_05_03_00
					SRO				
					SDT				
F6	8		SHREL2	Supplementary Heater Rele Control	RILU	crelay	BAS		CRELAY/XX_01_05_03_00
					SRO				
					SDT				
F6	8		ASTSTART	V-Sensing feedback from starter	RILU	aposswt	BAS	TAB	APOSSWT/XX_01_00_00_01
					SRO				
					SDT				
F6	8		ASTREL	Starter Rele Acquisition	RILU	aposswt	BAS	TAB	APOSSWT/XX_01_00_00_01
					SRO				
					SDT				
F6	8		SSMGM	Stop and Start management for Airflowmeter Heater control	RILU	ssmgm	BAS		SSMGM/XX_00_01_01_00
					SRO				
					SDT				
F6	8		RWHC	Rear window heater control	RILU	rwhc	APPL		RWHC/DMX_00_01_00_00
					SRO				
					SDT				
F6	8		COOLTEST	Coolant Temperature Estimation	RILU	new	APPL	TAB	COOLTEST/DMF_00_01_00_01
					SRO				
					SDT				
F6	8		COOLTDIAG	Coolant Temperature Diagnosis	RILU	new	APPL	TAB	COOLTDIAG/DMF_01_00_00_00
					SRO				
					SDT				
F6	8		SASM	Stop & Start Management Function	RILU	sasm	APPL		SASM/XX_01_17_00_00
					SRO				sasm_diesel_interface
					SDT				
F6	8		SSMP	S&S Mission Profile	RILU	ssmp	APPL	00087334	A.1
					SRO				
					SDT				

### F7 Exhaust

F7	1	Exhaust Emission Management							
F7	1		INJPHPOST	Start of injection and dwell time management for post injections	RILU	postinjphas	APPL	TAB	INJPHPOST/DMF_00_02_00_00
					SRO				
					SDT				
F7	1		DRVRPROF	Driving Profiles	RILU	new	APPL	TAB	DRVRPROF/DMX_00_03_00_00
					SRO				
					SDT				
F7	1		POSTCTRL	Post Injection Control	RILU	new	APPL	TAB	POSTCTRL/DMX_00_01_01_01
					SRO				
					SDT				
F7	1		POSTREF	Post Injection Control Reference	RILU	new	APPL	TAB	POSTREF/DMF_00_02_02_01
					SRO				
					SDT				
F7	1		INJQPOST	Quantity calculation for post injections	RILU	gpost	APPL	TAB	INJQPOST/DMF_00_05_00_00
					SRO				
					SDT				
F7	2	Exhaust Estimation							
F7	2		TDOC	DOC Temperature model	RILU	tdoc	APPL	TAB	TDOC/DMF_00_01_00_00
					SRO				
					SDT				
F7	2		LNTNSNR	Lean Nox Trap regeneration coordinator	RILU	new	APPL		LNTNSNR/DMF_00_00_01_00
					SRO				
					SDT				
F7	2		EXHE	Exhaust Estimator	RILU	exhe	APPL	TAB	EXHE/DMX_00_03_02_00
					SRO				
					SDT				
					RILU				

F7	2		TEXH	Exhaust Temperature Estimator	SRO	texh	APPL	TAB	TEXH/DMX_01_00_00_00	
					SDT					
F7	2		TPCAT	Out Pre-Cat Temperature Estimation	RILU	tpcat	APPL	00063996	B.1	
					SRO					
					SDT					
F7	2		EMEST	Engine Emission estimation	RILU	emest	APPL	TAB	EMEST/DMX_02_00_00_00	
					SRO					
					SDT					
F7	2		STRAP	DPF Service management	RILU	strap	APPL	TAB	STRAP/DMX_00_01_00_01	
					SRO					
					SDT					
F7	2		LTRAP	DPF Lamp management	RILU	ltrap	APPL	TAB	LTRAP/DMX_01_01_00_00	
					SRO					
					SDT					
F7	2		TCAT	Catalyst Temperature Evaluator	RILU	tcat	APPL	00084261	B.2	
					SRO					
					SDT					
F7	2		GDCAT	Diesel Oxidant Catalyst Diagnosis	RILU	gdcat	APPL	TAB	GDCAT/DMX_01_00_00_01	
					SRO					
					SDT					
F7	3		<b>FAP Management</b>							
F7	3		DPFSTORG	DPF storage estimator	RILU	new	APPL	TAB	DPFSTORG/DMF_00_08_00_00	
					SRO					
					SDT					
F7	3		DPFRST	DPF Reset at service	RILU	new	APPL		DPFRST/DMF_E6_01_00_00	
					SRO					
					SDT					
F7	3		DPFPHYMDL	DPF Physical Model	RILU	new	APPL	TAB	DPFPHYMDL/DMF_01_01_00_00	
					SRO					
					SDT					
F7	3		DPFMON	DPF monitoring	RILU	new	APPL	TAB	DPFMON/DMF_00_04_00_00	
					SRO					
					SDT					
F7	3		DPFCOORR	DPF coordinator	RILU	gtrap	APPL	TAB	DPFCOORR/DMF_00_06_00_00	
					SRO					
					SDT					
F7	4		<b>SCR Management</b>							
F7	5		<b>LNT Management</b>							
F7	5		COLNT	Lean Nox Trap regeneration coordinator	RILU	new	APPL	TAB	COLNT/DMF_00_05_00_00	
					SRO					
					SDT					
F7	5		LNTMON	LNT monitoring	RILU	new	APPL	TAB	LNTMON/DMF_00_01_00_00	
					SRO					
					SDT					
F7	5		LNTSTORG	Lean Nox Trap storage estimator	RILU	new	APPL	TAB	LNTSTORG/DMF_00_03_00_00	
					SRO					
					SDT					
<b>F8 Communication</b>										
F8	1		<b>Intersystem Communication</b>							
F8	1	1	<b>CAN Intersystem Communication</b>							
F8	1	1	ACI	Interaction Layer	RILU	aci	APPL		ACI/DX_02_00_00_05	
					SRO					
					SDT					
F8	1	1	CCCD	CAN Cruise Control Diagnosis	RILU	new	APPL	TAB	CCCD/DMX_00_01_00_00	
					SRO					
					SDT					
F8	1	1	CFBP	Requirements to interface with a Rapid Prototyping system	RILU	cfbp	APPL	00062803	A.2	
					SRO					

					SDT			00079275	A.1
F8	1	1	CONF	Configuration words management	RILU	conf	APPL		CONF/DMX_01_00_01_00
					SRO				
					SDT				
F8	1	1	IFBP	Specifica realizzativa del modulo IFBP	RILU	ifbp	APPL	00063305	A.6
					SRO			00063304	A.1
					SDT			00066704	A.6
F8	1	1	IMMO	Immobilizer interface	RILU	immo	APPL		
					SRO				
					SDT				
F8	1	1	IMMO2_F	Immobilizer for Fiat	RILU	immo2_f	APPL	00063134	A.6
					SRO				
					SDT				
F8	1	1	MMUX	Network Diagnosis	RILU	mmux	APPL	00093738	B.7
					SRO				
					SDT				
F8	1	1	SIRX	Can received signals threatment	RILU	new	APPL		SIRX/DX_00_02_00_03
					SRO				
					SDT				
F8	1	1	SITX	Can Transmitting signals threatment	RILU	new	APPL		SITX/DX_00_01_00_01
					SRO				
					SDT				
F8	1	2	LIN Intersystem Communication						
F8	1	2	ALIN	Message Map for LIN	RILU	alin	APPL	00094865	A.7
					SRO				
					SDT				
F8	2	External Communication with Off-Board Tools							
F8	2	1	Customer Diagnostic Tools						
F8	2	1	FLIGHTREC	Flight Recorder	RILU	new	APPL	TAB	FLIGHTREC/DMF_00_01_04_00
					SRO				
					SDT				
F8	2	1	KSRV_DL	Application Layer for FiatLan Communication Protocol	RILU	ksrv_dl	APPL		KSRV_DL/DMX_02_02_00_00
					SRO				
					SDT				
F8	2	2	Scan Tool						
F8	2	2	SSRV_DL	Scantool management on FIAT	RILU	ssrv_dl	APPL		SSRV_DL/DMX_01_03_00_00
					SRO				
					SDT				
<b>F9 EOBD Diagnosis</b>									
F9	1	EOBD Diagnosis							
F9	1		DDCAT	Diesel Oxidant Catalyst Diagnosis	RILU	ddcat	APPL	00084463	H.1
					SRO				
					SDT				
F9	2	OBD II Diagnosis							
F9	2				RILU				
					SRO				
					SDT				
F9	3	OBD I Diagnosis (Safety Level 1)							
F9	3		BBVBD	Diesel Blow By Oil Vapor Burning Detection	RILU	new	APPL	TAB	BBVBD/DMF_00_00_00_00
					SRO				
					SDT				
F9	3		DDPF	Diesel Particulate Filter Efficiency Monitoring	RILU	new	APPL	TAB	DDPF/9DF_00_01_00_00
					SRO				
					SDT				
F9	3		DDPFEST	DPF Efficiency Diagnosis Estimations	RILU	new	APPL	TAB	DDPFEST/DMF_00_00_00_00
					SRO				
					SDT				
					RILU				

F9	3		<b>DPFDPDIAG</b>	Diesel Delta Pressure Sensor Diagnosis	RILU SRO SDT	new	APPL	TAB	DPFDPDIAG/DMF_00_00_01
F9	3		<b>DNOC</b>	NOx Storage Capacity Efficiency Monitoring	RILU SRO SDT	new	APPL		DNOC/9DF_00_01_01_01
F9	3		<b>DDOC</b>	Diesel Oxidant Catalyst Monitoring	RILU SRO SDT	new	APPL		DDOC/9DF_00_01_00_00
F9	3		<b>CYLPDIAGC</b>	Combustion indexes estimation based on cylinder pressure	RILU SRO SDT	new	APPL	TAB	CYLPDIAGC/DMF_E6_00_00_00
F9	3		<b>DLAM</b>	Combustion lambda plausibility diagnosis	RILU SRO SDT	diam	APPL	00078294	A.4
F9	3		<b>DPFDIAGC</b>	DPF diagnosys coordinator	RILU SRO SDT	dtrap	APPL	TAB	DPFDIAGC/DMF_00_05_00_01
F9	3		<b>DPOIL</b>	Oil pressure diagnosis	RILU SRO SDT	dpoil	APPL	00095382	A.1
F9	3		<b>EETSD</b>	NTC sensor management	RILU SRO SDT	eetsd	APPL		EETSD/DMX_00_00_00_01
F9	3		<b>EGRHPTDIAG</b>	Out couler EGR HP temperature fonctionnal diagnosis	RILU SRO SDT	new	APPL	TAB	EGRHPTDIAG/DMF_01_00_00_00
F9	3		<b>EGRLPTDIAG</b>	Out couler EGR LP temperature fonctionnal diagnosis	RILU SRO SDT	new	APPL	TAB	EGRLPTDIAG/DMF_01_00_00_00
F9	3		<b>HPFL</b>	Advanced high pressure fuel system diagnosis	RILU SRO SDT	shv	APPL	00029883	D.2
F9	3		<b>HPSD</b>		RILU SRO SDT	boid	APPL		
F9	3		<b>SHV</b>		RILU SRO SDT	hpfl	APPL		
F9	3		<b>BOID</b>		RILU SRO SDT	hpsd	APPL		
F9	3		<b>INLNTNTCTDIAG</b>	Inlet LNT electrical temperature diagnosis (for NTC sensor)	RILU SRO SDT	new	APPL	TAB	INLNTNTCTDIAG/DMF_00_01_00_00
F9	3		<b>INLNTTDIAG</b>	Inlet LNT temperature fonctionnal diagnosis	RILU SRO SDT	new	APPL	TAB	INLNTTDIAG/DMF_01_01_00_00
F9	3		<b>INTRAPNTCTDIAG</b>	Inlet DPF electrical temperature diagnosis (for NTC sensor)	RILU SRO SDT	new	APPL	TAB	INTRAPNTCTDIAG/DMF_00_01_00_00
F9	3		<b>INTRAPTDIAG</b>	EGR Hp-Lp mass flow estimation	RILU SRO SDT	new	APPL	TAB	INTRAPTDIAG/DMF_01_01_00_00
F9	3		<b>LNTDIAGC</b>	Lean NOx Trap diagnosys	RILU SRO SDT	new	APPL	TAB	LNTDIAGC/DMF_00_03_01_00
F9	3		<b>LTH2O</b>	TH2O lamp management	RILU SRO SDT	lth2o	APPL	00076015	B.6
F9	3		<b>MTSC</b>	Mean Temperature at System Cold Update	RILU SRO SDT	new	APPL	TAB	MTSC/DMF_00_00_00_01

F9	3		<b>OUTRAPTDIAG</b>	Outlet DPF temperature functional diagnosis	RILU SRO SDT	new	APPL	TAB	OUTRAPTDIAG/DMF_01_00_00_00		
F9	3		<b>DCOOL</b>	HP/LP EGR Cooler and Intercooler Diagnosis	RILU SRO SDT	new	APPL	TAB	DCOOL/9DF_00_02_00_00		
F9	3		<b>ZHARDWARE</b>	Hardware diagnosis	RILU SRO SDT	zhardware	APPL	00082489	C.2		
F9	4	<b>Diagnosis Architecture (Safety Level 1)</b>									
F9	4		<b>DIAGACT</b>	Active diagnosis	RILU SRO SDT	diagact	APPL	00062182	J.1		
F9	4		<b>IUPR</b>	In-Use Performance Ratio	RILU SRO SDT	iupr	APPL		IUPR/DMX_00_00_02_00		
F9	4		<b>ARDGN</b>	System diagnosis ARDGN	RILU	ardgn	APPL	ARDGN ALGDGN diagmap	ARDGN/DMX_00_03_05_00		
		SRO			00080056-B.2						
		SDT			diagmap.xlsx						
F9	4						RILU SRO SDT	adia2	APPL	ADIA2	ADIA2/DMX_03_00_00_00
F9	4						RILU SRO SDT	gobd	APPL	GOBD	GOBD/DMX_01_00_00_00
F9	4						RILU SRO SDT	gsec	APPL	GSEC	GSEC/DMX_02_01_00_00
F9	4						RILU SRO SDT	gsaf	APPL	GSAF	GSAF/DMX_01_00_00_00
F9	4						RILU SRO SDT	obdtbl	APPL	OBDTBL	OBDTBL/DMX_03_00_01_02
F9	4						RILU SRO SDT	obdlmp	APPL	OBDLMP	OBDLMP/DMX_03_00_00_00
F9	4				<b>ECUDIAG</b>	ECU diagnosis (sensors power supply, RAM, VBOOST)	RILU SRO SDT	ecudiag	BAS	ECUDIAG	ECUDIAG/XX_00_03_00_00
F9	4		<b>GLAMP</b>	Interface between logical lamp and physical lamp	RILU SRO SDT	glamp	APPL	00029212	E.4		
<b>F10 SAFETY</b>											
F10	1	<b>Level 2 Safety Architecture</b>									
F10	1		<b>LWTS</b>	Lower bound Water Temperature Supervisor	RILU SRO SDT	lwts	APPL		LWTS/DMX_00_00_02_00		
F10	1		<b>SATE</b>	Safety actuated torque estimation	RILU SRO SDT	sate	APPL		SATE/DMX_00_01_00_00		
F10	1			Specification of Level 2 Safety General Management	RILU SRO SDT	sftm	APPL	SFTM SFTM_9DF.xls	SFTM/DMX_00_09_00_00		
F10	1				RILU SRO SDT	sm01	APPL	SM01			
					RILU						



F10	1			Level 2 Safety Module 02 detailed design	SRO	sm02	APPL	SM02	SM02/DMX_00_01_01_00
F10	1			Level 2 Safety Module 03 detailed design	RILU SRO SDT	sm03	APPL	SM03	SM03/DMX_00_01_00_01
F10	1				RILU SRO SDT	sm04	APPL	SM04	
F10	1			Specification of the Module 05 of Level 2 Safety	RILU SRO SDT	sm05	APPL	SM05	SM05/XX_00_03_01_01
F10	1			Specification of the Module 06 of Level 2 Safety for Gen. 8 project.	RILU SRO SDT	sm06	APPL	SM06	SM06/XX_00_03_00_00
F10	1			Level 2 Safety Module 07 detailed design	RILU SRO SDT	sm07	APPL	SM07	SM07/DMX_00_01_00_01
F10	1			Level 2 Safety Module 08 detailed design	RILU SRO SDT	sm08	APPL	SM08	SM08/DMX_00_01_00_00
F10	1			Level 2 Safety Module 09 detailed design	RILU SRO SDT	sm09	APPL	SM09	SM09/DMX_00_02_00_00
F10	1			Level 2 Safety Module 10 detailed design	RILU SRO SDT	sm10	APPL	SM10	SM10/DMX_00_01_00_00
F10	1			Level 2 Safety Module 11 detailed design	RILU SRO SDT	sm11	APPL	SM11	SM11/DMX_00_03_00_00
F10	1			Level 2 Safety Module 12 detailed design	RILU SRO SDT	sm12	APPL	SM12	SM12/DMX_00_01_00_00
F10	1				RILU SRO SDT	sm13	APPL	SM13	
F10	1			Level 2 Safety Module 14 detailed design	RILU SRO SDT	sm14	APPL	SM14	SM14/DMX_00_01_00_00
F10	1			Specification of the Module 15 of Level 2 Safety	RILU SRO SDT	sm15	APPL	SM15	SM15/XX_00_03_00_03
F10	1			Specification of the Module 16 of Level 2 Safety	RILU SRO SDT	sm16	APPL	SM16	SM16/DMX_00_01_00_01
F10	1			Specification of the Module 17 of Level 2 Safety	RILU SRO SDT	sm17	APPL	SM17	SM17/DMX_00_01_00_00
F10	1			Specification of the Module 18 of Level 2 Safety	RILU SRO SDT	sm18	APPL	SM18	SM18/DMX_00_01_00_00
F10	1				RILU SRO SDT	sm19	APPL	SM19	
F10	1				RILU SRO SDT	sm20	APPL	SM20	
F10	1			Specification of the Module 21 of Level 2 Safety	RILU SRO SDT	sm21	APPL	SM21	SM21/DMX_00_01_00_00
F10	1		L1TES	Level 1 Timely ExtraPressure Supervisor	RILU SRO SDT	GSF2_L1TES	APPL	00085784	A.5

SFTM

F10	2	<b>Torque Chain Supervision</b>						
F10	2				RILU SRO SDT			
F10	3	<b>Level 2 Hardware Supervision</b>						
F10	3		<b>SAFE</b>	Safety level 3 : Hardware Supervisor	RILU SRO SDT	safe	BAS	SAFE/XX_01_02_05_00
F10	3		<b>SAFM</b>	Safety level 2/3 manager : Interface with database level - 2	RILU SRO SDT	safm	BAS	SAFM/XX_01_02_01_00
F10	4	<b>Level 3 Safety Architecture</b>						
F10	4				RILU SRO SDT			
<b>FI Integration</b>								
FI			<b>GCMGM</b>	Global Calibration Management	RILU SRO SDT	new	APPL	GCMGM/DMF_01_02_00_00
FI			<b>MSAV</b>	EEPROM management and diagnosis	RILU SRO SDT	masv	APPL	00079997 H.4
FI			<b>CONF (CRF)</b>	Global Calibrations, Defines and Enums	RILU SRO SDT	new	APPL	CONF/CRF_E6_01_00_00
FI			<b>BCACAL</b>	External BCA Calibration	RILU SRO SDT	bcacal	BAS	BCACAL/DMF_E6_06_05_00
FI			<b>DSMART</b>	Samrt Actuator Control	RILU SRO SDT	dsmart	BAS	DSMART/XX_00_02_00_00
FI			<b>RBHT</b>	Read buffer HalfTdc	RILU SRO SDT	new	APPL	TAB RBHT/DMF_E6_01_00_00
FI			<b>RBMT</b>	Medium time task buffering module (reading)	RILU SRO SDT	new	APPL	TAB RBMT/DMF_E6_01_00_00
FI			<b>WBLAB</b>	Angular base (Last AB) task buffering module (writing)	RILU SRO SDT	new	APPL	TAB WBLAB/DMF_E6_01_00_00
FI			<b>WBMT</b>	Medium time task buffering module (writing)	RILU SRO SDT	new	APPL	TAB WBMT/DMF_00_03_00_00
FI			<b>WBRPM</b>	Angular base (RPM) task buffering module (writing)	RILU SRO SDT	new	APPL	TAB WBRPM/DMF_E6_01_00_00
FI			<b>WBTDc</b>	Tdc task buffering module (writing)	RILU SRO SDT	new	APPL	TAB WBTDc/DMF_E6_01_00_00
FI			<b>RBTDc</b>	Angular base (Tdc) task buffering module (reading)	RILU SRO SDT	new	APPL	TAB RBTDc/DMF_00_03_00_00
FI			<b>ASLS_IO</b>	ASLS Interface	RILU SRO SDT	new	APPL	ASLS_IO_Interface



Specifica Realizzativa di Operazione  
**L1 Timely ExtraPressure Supervisor – L1TES**

L1TES

**Summary:**

Timey Extra Pressure event Avoiding Control

**Description of the last modification:**

Name Change

Issued by :	Role	Date	Signature
Andrea Toso	System Deployment Engineer	25.6.2008	

Approved by :	Role	Date	Signature

**Rev.A.5**

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## Document goals

The main target of this document is to define a control strategy in order to avoid the possibility to have a thermal event in case of an unrecognized overpressure. The control is a safety control because the thermal event is classified as an event that belong to the maximum severity class, and for this reason must be managed as other safety events.

Preliminary:

The Over Pressure events can be generated from :

- VCV internal failure ( if present )
- ECU internal failure ( the command to actuate the micro injection strategy is not correctly issued )

Both fault must live together to generate the overpressure thermal TOP event.

The overpressure strategy (CINJPRES 00037677) is managed through a command issued on 5ms task ( high priority ): the command will be sent to the whole control algorithm sending the ET and SOI quantity using algorithm that is called by the AB task.

The low pressure pump will be deactivated using an algorithm called every 20 ms.

Purpose of this document is to design a supervisor of the overpressure management algorithm in such a way that , in case of failure of the overpressure management, the system can be carried out in a ' safe ' state, where the probability to have fire risk is the minimum possible.