Pinlayout MS 25

1928405313 Engine connector (X2 - Engine)
1928405312 Vehicle connector (X1 - Vehicle)

MS25 Sport base (sw0107)					
CON	**PIN**	**Name**	**Main function**	**PIN Name**	**Signal**
E	1	InjectorPwrStg 2 -	InjectorPwrStg 2 "bank2"	O_P_SVL21	
E	2	InjectorPwrStg 5 -	InjectorPwrStg 5 "bank2"	O_P_SVL22	
E	3	InjectorPwrStg 8 -	InjectorPwrStg 8 "bank2"	O_P_SVL23	
E	6	Oil press./temp. gnd	Oil Pressure and Temperature Ground	G_R_DF03	
E	7	Boost press. supply +5V	Boost pressure sensor supply	V_V_5VSS1A	
E	8	5V sens. Supply 5	5V Sensor supply 5	V_V_5VSS2C	
E	9	CAM/CRK hall supply +5V	CAM/CRK speed sensor supply (HALL)	V_V_5VSS2F	
E	10	5V sens. Supply 6	5V sensor supply 6	V_V_5VSS2E	
E	11	rail press. supply +5V	Rail pressure sensor supply	V_V_5VSS3B	
E	12	Fuel Temp Signal	Fuel Temp Signal	I_A_AN18	tfuel
E	13	oil temp. signal	Oil temperature sensor signal	I_A_AN15	toil
E	14	fuel feed press.	Fuel Feed Pressure	I_A_AN09	pfuel
E	16	exhaust/water1 press. signal	Exhaust gas / water pressure 1	I_A_AN02	pwat
E	17	CAN3+ (Display)	CAN Interface (Display/logger)	B_D_CANH2	
E	18	CAN3- (Display)	CAN Interface (Display/logger)	B_D_CANL2	
E	19	Sens. Gnd 5	Sensor ground 5	G_R_AN02	
E	21	waste gate 2 / VGT2	Waste Gate 2 / Variable Turbine Geometry 2	O_T_RL3	
E	22	GPU5 LS	General purpose output 5 (LS)	O_T_RL07	
E	23	GPU3 LS	General purpose output 3 (LS)	O_T_RL09	
E	24	Battery plus output 32	Battery Plus Output 32	O_V_RH32	
E	25	InjectorPwrStg 2 +	InjectorPwrStg 2 "bank2"	O_P_SVH21	
E	26	InjectorPwrStg 5 +	InjectorPwrStg 5 "bank2"	O_P_SVH22	
E	27	InjectorPwrStg 8 +	InjectorPwrStg 8 "bank2"	O_P_SVH23	
E	30	Wheelspeed ground	Wheel sensor ground rear	G_R_AMS	
E	31	oil press. supply +5V	Oil pressure sensor supply	V_V_5VSS1F	
E	32	Sensor Supply 7 +5V	Sensor supply 7	V_V_5VSS1E	
E	33	Water press. Supply +5V	Water press sensor supply	V_V_5VSS2B	
E	34	5V Sensor supply 8	Sensor supply 8	V_V_5VSS3C	
E	35	oil press. signal	Oil pressure sensor input signal	I_A_AN01	poil
E	36	rail press. signal	Rail pressure sensor signal	I_A_RAILPS	prail
E	37	boost temp. signal	MAT (Boost temperature)	I_A_AN16	tint
E	39	coolant temp. signal	Coolant temperature sensor signal	I_A_AN17	tmot
E	40	Sensor gnd 8	Sensor ground 8	G_R_AN08	
E	41	SENT (optional)	input for SENT interface	I_D_SENT	
E	42	Sensor gnd 7	Sensor ground 7	G_R_AN20	
E	45	fuel pump relay	Fuel Pump	O_S_RL19	
E	46	GPU2 LS	General purpose output 2 (LS)	O_T_RL06	
E	47	GPU1 LS	General purpose output 1 (LS)	O_T_RL05	
E	49	InjectorPwrStg 1 +	InjectorPwrStg 1 "bank1"	O_P_SVH11	
E	50	InjectorPwrStg 4 +	InjectorPwrStg 4 "bank1"	O_P_SVH12	
E	51	InjectorPwrStg 7 +	InjectorPwrStg 7 "bank1"	O_P_SVH13	

E	52	InjectorPwrStg 3 +	InjectorPwrStg 3 "bank3"	O_P_SVH32	
E	53	InjectorPwrStg 6 +	InjectorPwrStg 6 "bank3"	O_P_SVH33	
E	54	fwheel_rl	Wheelspeed frequency input, rear left (Hall)	I_F_AMS	vwheel_rl
E	55	LIN (OPTIONAL)	LIN interface (Optional)	B_D_LIN	
E	56	fwheel_rr	Wheelspeed frequency input, rear right (Hall)	I_F_IATS	vwheel_rr
E	57	waste gate 1 / VGT1	Waste Gate 1 / Variable Turbine Geometry 1	O_T_RL02	
E	58	FMU1 supply	Supply FMU	O_V_MEU	
E	59	Cooland/fuel temp gnd	Coolant and fuel temperature sensor ground	G_R_AN18	
E	60	rail press. gnd	Rail pressure sensor ground	G_R_RAILPS	
E	61	amb/water2 press. signal	ambient pressure / water pressure 2	I_A_AN03	pwat2
E	62	Wastegate press. Signal	wastegate pressure sensor 1 signal	I_A_AN07	pwgc
E	63	LSU VM	LSU4.9 - VM	G_R_LSVG	
E	64	LSU IP	LSU4.9 - IP	I_A_LSCP	
E	65	crankshaft -	Crankshaft speed sensor signal Negative (Inductive)	I_F_CRSNEG	
E	66	crankshaft +	Crankshaft speed sensor signal Positive (Inductive)	I_F_CRSPOS	
E	67	camshaft - (OPTIONAL)	Optional CamShaft Sensor Signal (Inductive)	I_F_CASNEG	
E	68	camshaft + (OPTIONAL)	Optional CamShaft Sensor Signal (Inductive)	I_F_CASPOS	
E	69	Sensor gnd 6	Sensor ground 6	G_R_AN07	
E	72	LSU heat-	lambda sensor heater low side PWM output	O_T_LSH	
E	73	InjectorPwrStg 1 -	InjectorPwrStg 1 "bank1"	O_P_SVL11	
E	74	InjectorPwrStg 4 -	InjectorPwrStg 4 "bank1"	O_P_SVL12	
E	75	InjectorPwrStg 7 -	InjectorPwrStg 7 "bank1"	O_P_SVL13	
E	76	InjectorPwrStg 3 -	InjectorPwrStg 3 "bank3"	O_P_SVL32	
E	77	InjectorPwrStg 6 -	InjectorPwrStg 6 "bank3"	O_P_SVL33	
E	78	CAM/CRK (hall) ground	CAM/CRK speed sensor ground (Hall)	G_R_DF02	
E	79	cam hall signal	camshaft position sensor (Hall)	I_F_DF02	
E	80	CrankShaft Hall (OPTIONAL)	Optional crankshaft speed sensor signal (Hall)	I_F_DF06	
E	81	PCV1 (FMU2) LS	Rail pressure control valve 1 LS (opt FMU2 LS)	O_T_PCV	
E	82	PCV1 Supply	Supply PCV1	O_V_PCV	
E	83	FMU1 LS	Fuel Metering Unit 1 LS	O_T_MEU	
E	84	Sens. Supply 12V	Sensor supply	O_V_VDD12	
E	86	boost press. signal	MAP (boost pressure)	I_A_AN05	pboost
E	87	LSU UN	LSU4.9 - UN	I_A_LSVN	
E	88	LSU IA	LSU4.9 - IA	I_A_LSCA	
E	89	Shield GND	Shield ground	G_R_RES	
E	90	boost press./temp. gnd	boost pressure and temperature sensor Ground	G_R_AN05	
E	91	turbospeed2+	Turbocharger speed 2 (Inductive)	I_F_DF05	nturbo2
E	92	turbospeed2-	Ground for turbocharger speed 2 (Inductive)	G_R_DF05	
E	93	turbospeed1+	Turbocharger speed 1 (Inductive)	I_F_DF04POS	nturbo1
E	94	turbospeed1-	Ground for turbocharger speed 1 (Inductive)	I_F_DF04NEG	
E	96	LSU heat+	Battery plus output 22	O_V_RH22	
V	1	Battery plus 4	Battery plus %	V_V_BAT+4	
V	3	Battery minus 1	Battery minus %	G_G_BAT-1	
V	5	Battery minus 4	Battery minus %	G_G_BAT-4	
V	7	airbox press. signal	airbox pressure sensor signal	I_A_AN23	pairbox
V	9	fuel return temp	temperature sensor signal for return fuel	I_A_AN22	tleak
V	10	Sensor gnd 1	Sensor Ground 1	G_R_AN10	

V	11	pit speed sw	pit speed limiter digital switch	I_S_DIG03	
V	14	Launch sw	Launch control switch	I_S_DIG07	
V	16	egt1 signal	Exhaust gas temperature sensor signal 1	I_A_AN13	texh
V	17	egt2 signal	Exhaust gas temperature sensor signal 2	I_A_AN19	texh2
V	18	egt1/egt2 gnd	EGT1 / EGT2 Ground	G_R_AN13	
V	21	glowplug relay HS	Glowplug Relay HS	O_T_RH06	
V	25	Battery plus 3	Battery plus %	V_V_BAT+3	
V	26	Battery plus 5	Battery plus %	V_V_BAT+5	
V	27	12V Sw/FMU3 (HS) Supply	Supply for switches and FMU3 (HS)	O_V_RH31	
V	28	Battery minus 2	Battery minus %	G_G_BAT-2	
V	32	Map Switch	Map position switch	I_A_AN24	mapsw
V	33	Sensor gnd 4	Sensor Ground 4	G_R_AN11	
V	34	Engine Speed Output	Engine Speed Output Signal (tach)	O_F_DA01	
V	36	Laptrg	Laptrigger input	I_S_DIG08	
V	37	Pace sw	Pace switch	I_S_DIG04	
V	39	Sensor gnd 2	Sensor Ground 2	G_R_AN12	
V	40	gearbox temp. signal	Gearbox Temperature Sensor Signal	I_A_AN14	tgear
V	41	Ambient temp. signal	Ambient Temperature Sensor Signal	I_A_AN26	tamb
V	43	Sensor gnd 3	Sensor Ground 3	G_R_AN14	
V	46	CAN1 +	CAN Interface	B_D_CANH0	
V	47	CAN1 -	CAN Interface	B_D_CANL0	
V	49	Battery plus 2	Battery plus %	V_V_BAT+2	
V	50	12V Supply Relay (HS)	Relay Supply (HS)	O_V_RH11	
V	52	Battery minus 5	Battery minus %	G_G_BAT-5	
V	53	VSS	Vehicle speed sensor signal (Hall)	I_F_VSS	speed
V	54	VSS GND	Vehicle Speed Sensor Ground	G_R_VSS	
V	57	aps2 gnd	Accelerator pedal position sensor 2 ground	G_R_APP2	
V	60	fuel reset sw	Fuel Reset Switch	I_S_DIG02	
V	61	MILSpec	MILSpec Warning Lamp (LS)	O_S_RL20	
V	64	fwheel_fr	Wheelspeed frequency input, front right (Hall)	I_F_DF01	vwheel_fr
V	65	Wheel sens. Gnd. Front	Wheel Sensor Ground Front	G_R_DF01	
V	66	aps1 supply +5V	Accelerator pedal supply 1	V_V_5VSS2D	
V	67	5V sens. Supply 4	Sensor Supply 4	V_V_5VSS2A	
V	68	5V sens. Supply 2	Sensor Supply 2	V_V_5VSS1D	
V	69	terminal 15	Terminal 15 (switched BAT+)	I_S_T15	
V	71	CAN 2 + (Diag)	CAN Interface (Diag) - MSA-Box2 ecu interface	B_D_CANH1	
V	72	MIL	MIL Warining Lamp (LS)	O_S_RL12	
V	73	Battery plus 1	Battery plus %	V_V_BAT+1	
V	75	Battery minus 3	Battery minus %	G_G_BAT-3	
V	78	aps2 signal	Accelerator pedal position signal 2	I_A_APP2	aps_b
V	79	aps1 signal	Accelerator pedal position signal 1	I_A_APP1	aps_a
V	80	aps1 gnd	Accelerator pedal position sensor 1 ground	G_R_APP1	
V	81	Wet sw	Wet switch	I_S_DIG06	
V	84	fwheel_fl	Wheelspeed frequency input, front left (Hall)	O_T_RL13	vwheel_fl
V	86	GPU4 LS	General purpose output 4 (LS)	O_T_RL08	
V	87	FMU3 LS	Fuel Metering Unit 3 LS	O_T_RL01	
V	89	Shield GND	Shield ground	G_G_RL13	

V	90	5V sens. Supply 3	Sensor Supply 3	V_V_5VSS3A	
V	91	5V sens. Supply 1	Sensor Supply 1	V_V_5VSS1C	
V	92	aps2 supply +5V	Accelerator pedal supply 2	V_V_5VSS1B	
V	93	Auxiliary Relay LS	Auxiliary Relay LS	O_S_RL27	
V	94	glowplug relay LS	Glowplug Relay LS	O_S_RL26	
V	95	CAN 2 - (Diag)	CAN Interface (Diag) - MSA-Box2 ecu interface	B_D_CANL1	

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