

Pin	EMU PRO 16	Pin	DI module	Sugg. wire gauge [mm2]
A2	DI Injector 1 control signal	A12	Injector A control	0,35
A3	DI Injector 2 control signal	A10	Injector C control	0,35
A4	DI Injector 3 control signal	B9	Injector E control	0,35
A5	DI Injector 4 control signal	B11	Injector G control	0,35
A31	CAN 1 H	B24	CAN H	0,35
A32	CAN 1 L	B23	CAN L	0,35
D8	Injector 9	A08	Pump 1 control	0,35

Pin	DI module	Pin	OEM ECU connector	Sugg. wire gauge [mm2]
A1	Injector C,D high side	A23	Injector 1 Cylinder 2 High	1,0
A2	Injector A,B high side	A64	Injector 1 Cylinder 1 High	1,0
A4	Injector C low side	A1	Injector 1 Cylinder 2 GND	1,0
A6	Injector A low side	A85	Injector 1 Cylinder 1 GND	1,0
A7	Pump 1 low side	A92	DI Pump Signal	1,0
A13	Pump 1 high side	A93	DI Pump Signal	1,0
A24	SENT 1	A80	Cooling Thermostat Position	0,35
B2	Injector E low side	A2	Injector 1 Cylinder 3 GND	1,0
B4	Injector G low side	A43	Injector 1 Cylinder 4 GND	1,0
B6	Injector E,F high side	A22	Injector 1 Cylinder 3 High	1,0
B7	Injector G,H high side	A65	Injector 1 Cylinder 4 High	1,0

Pin	EMU PRO 16	Pin	OEM ECU connector	Sugg. wire gauge [mm2]
A6	Injector 5	A25	Injector 2 Cylinder 1	1,0
A7	Injector 6	A46	Injector 2 Cylinder 2	1,0
A8	Injector 7	A24	Injector 2 Cylinder 3	1,0
A9	Injector 8	A45	Injector 2 Cylinder 4	1,0
A11	Power GND	B1	GND power supply	1,5
A12	+5V A	A35	+5V Sensors	0,35
		A38		0,35
		A48		0,35
		A69		0,35
		B33		0,35
A13	Digital 2	A30	Intake CAM sensor	0,35
A14	Digital 4	A83	Oil level and temperature	0,35
A15	Digital 8	B68	Starter signal	0,35
A16	Digital 6	B62	DSG P/N status signal	0,35
A17	Power GND	B1	GND power supply	1,5
A19	Power GND	B1	GND power supply	1,5
A20	Digital GND	A29	Digital GND (Exhaust cam)	0,35
		A44	Digital GND (Intake cam)	0,35
		A77	Digital GND (crank)	0,35
A21	Digital 1	A70	Crankshaft sensor	0,35
A22	Digital 3	A28	Exhaust CAM sensor	0,35
A23	Digital 7	B70	Cruise Control switch	0,35
A25	Auxiliary 9	B12	Radiator Fan PWM	0,5
A27	Ignition coil 4	A62	Ignition Coil 4	0,35
A28	Ignition coil 3	A57	Ignition Coil 3	0,35
A29	Ignition coil 2	A79	Ignition Coil 2	0,35

A30	Ignition coil 1	A76	Ignition Coil 1	0,35
A33	CAN 2 H	B79	CAN H Powertrain	0,35
A34	CAN 2 L	B80	CAN L Powertrain	0,35
B4	Auxiliary 4	B8	Ignition coils relay	0,5
B5	Auxiliary 5	B22	Coolant shut-off valve	0,5
B6	Auxiliary 6	A105	VVT Intake solenoid	0,5
B7	Auxiliary 7	A104	VVT Exhaust solenoid	0,5
B8	+12V	B5	+12V power supply (over Main Relay)	1,5
B13	Auxiliary 8	B9	Fuel pump PWM	0,35
B14	+12V	B6	+12V power supply (over Main Relay)	1,5
B15	+12V switched	B50	+12V ignition	0,5
B16	Knock 1	A98	Knock	0,35
B19	Power GND	B2	GND power supply	1,5
C1	Auxiliary 10	A3	EVAP solenoid	1,0
C2	Auxiliary 11	A7	Piston cooling jet valve	0,5
C3	Auxiliary 12	A53	Intake flap valve	0,5
C4	Analog 7	A50	Low Fuel pressure sensor	0,35
C5	Analog 10 2k2	B29	CLT radiator return sensor	0,35
C6	H-bridge 1A	A91	DBW motor +	0,75
C7	H-bridge 2B	A88	EWG motor -	0,75
C8	H-bridge 3A	A87	Cooling Thermostat motor +	1,0
C9	H-bridge 2A	A89	EWG motor +	0,75
C10	Analog 1	A52	MAP	0,35
C11	Analog 3	A55	TPS inverted	0,35
C12	Analog 5	B69	APS inverted	0,35
C14	Analog 11 2k2	A51	IAT	0,35
C15	Analog 13 1k	B55	Charge pressure sensor	0,35
C17	H-bridge 3B	A86	Cooling Thermostat motor -	1,0
C18	Analog 2	A34	TPS	0,35
C19	Analog 4	B52	APS	0,35
C20	Analog 6	A49	High Fuel pressure	0,35
C21	Analog 9 2k2	A40	CLT	0,35
C22	Analog 12 2k2	B54	Charge temp	0,35
C23	Analog 14 1k	A41	EWG position	0,35
C25	H-bridge 1B	A90	DBW motor -	0,75
C27	+5V B	A42	+5V Sensors	0,35
		A61		0,35
		B16		0,35
		B32		0,35
C28	+5V B	A26	+5V Sensors	0,35
		A37		0,35
		A54		0,35
		A68		0,35
C29	Analog GND	A11	Sensors GND	0,35
		A20		0,35
		A27		0,35
		A31		0,35
		A33		0,35
		A47		0,35
		A78		0,35
A97	0,35			
C30	Power GND	B2	GND power supply	1,5
C31	Precision analog 1	A74	Oil pressure – high pressure	0,35
C32	Precision analog 2	A72	Oil pressure – low pressure	0,35

C33	Precision analog 3	A73	Oil pressure – piston cooling jets	0,35
C34	Precision analog 4	B67	Starter diagnostics	0,35
D1	Injector 10	A101	Exhaust cam actuator A Cyl 1	0,75
		A59	Exhaust cam actuator A Cyl 2	0,75
D2	Injector 11	A94	Exhaust cam actuator A Cyl 3	0,75
		A96	Exhaust cam actuator A Cyl 4	0,75
D3	Injector 12	A6	Exhaust cam actuator B Cyl 1	0,75
		A58	Exhaust cam actuator B Cyl 2	0,75
D4	Injector 13	A4	Exhaust cam actuator B Cyl 3	0,75
		A95	Exhaust cam actuator B Cyl 4	0,75
D7	Injector 16	B87	Starter relay 1	0,5
		B88	Starter relay 2	0,5
D9	Analog 17	A36	Intake flap position	0,35
D11	Digital 9 / Analog 19	B60	Brake pedal position	0,35
D12	Digital 10 / Analog 20	B37	Brake pedal position check	0,35
D13	Auxiliary 13	A66	Turbo air recirculation valve	1,0
D17	Analog GND	B34	Sensors GND	0,35
		B35		0,35
		B49		0,35
		B51		0,35
		A56		0,35
D19	Auxiliary 14	A84	Coolant circulation pump	0,75
D20	H-bridge 4B	A8	DSG – RPM signal	0,35
D25	Auxiliary 16	A17	Oil pressure ctrl valve	0,5
D26	Auxiliary 15	B39	DSG coolant valve	0,5

