

Wiring Summary

PIN	Abbreviation	Name	Usage
D_3	AT1	Analogue Temperature Input 1	Analogue Input Inlet Air Temperature Sensor Voltage
D_4	AT2	Analogue Temperature Input 2	
D_5	AT3	Analogue Temperature Input 3	
D_6	AT4	Analogue Temperature Input 4	
A_1	AT5	Analogue Temperature Input 5	Analogue Input Coolant Temperature Sensor Voltage
A_2	AT6	Analogue Temperature Input 6	
C_14	AV1	Analogue Voltage Input 1	Analogue Input Gear Shift Actuator Pressure Sensor Voltage
C_15	AV2	Analogue Voltage Input 2	Analogue Input Throttle Pedal Sensor Main Voltage
C_16	AV3	Analogue Voltage Input 3	Analogue Input Throttle Servo Bank 1 Position Sensor Main Voltage
C_17	AV4	Analogue Voltage Input 4	Analogue Input Throttle Servo Bank 1 Position Sensor Tracking Voltage
C_25	AV5	Analogue Voltage Input 5	
D_20	AV6	Analogue Voltage Input 6	Analogue Input Fuel Composition Sensor Voltage
D_21	AV7	Analogue Voltage Input 7	
D_22	AV8	Analogue Voltage Input 8	Analogue Input Inlet Manifold Pressure Sensor Voltage
B_10	AV9	Analogue Voltage Input 9	
B_11	AV10	Analogue Voltage Input 10	
B_12	AV11	Analogue Voltage Input 11	
B_16	AV12	Analogue Voltage Input 12	Analogue Input Fuel Pressure Sensor Voltage
B_17	AV13	Analogue Voltage Input 13	
B_18	AV14	Analogue Voltage Input 14	
A_3	AV15	Analogue Voltage Input 15	
A_4	AV16	Analogue Voltage Input 16	
A_5	AV17	Analogue Voltage Input 17	
D_12	BAT_BAK	Battery Backup	
A_25	BAT_NEG	Battery Negative	
A_24	BAT_NEG	Battery Negative	
C_11	BAT_NEG	Battery Negative	
C_10	BAT_NEG	Battery Negative	
A_32	BAT_NEG	Battery Negative	
C_26	BAT_POS	Battery Positive	Analogue Input ECU Battery Voltage
B_13	BAT_POS	Battery Positive	Analogue Input ECU Battery Voltage
B_19	BAT_POS	Battery Positive	Analogue Input ECU Battery Voltage
D_17	CAN1_HI	CAN Bus 1 High	
D_18	CAN1_LO	CAN Bus 1 Low	

A_30	CAN2_HI	CAN Bus 2 High	
A_31	CAN2_LO	CAN Bus 2 Low	
A_28	CAN3_HI	CAN Bus 3 High	
A_29	CAN3_LO	CAN Bus 3 Low	
A_23	DIG1	Digital Input 1	
A_15	DIG2	Digital Input 2	
A_16	DIG3	Digital Input 3	
A_17	DIG4	Digital Input 4	
D_26	ETH_RX-	Ethernet Receive-	
D_25	ETH_RX+	Ethernet Receive+	
D_24	ETH_TX-	Ethernet Transmit-	
D_23	ETH_TX+	Ethernet Transmit+	
C_3	IGN_LS1	Low Side Ignition 1	
C_4	IGN_LS2	Low Side Ignition 2	<div>Digital Output</div> Ignition Cylinder 1 Output <div>Analogue Input</div> Ignition Cylinder 1 Voltage
C_5	IGN_LS3	Low Side Ignition 3	
C_6	IGN_LS4	Low Side Ignition 4	
C_7	IGN_LS5	Low Side Ignition 5	
C_8	IGN_LS6	Low Side Ignition 6	
C_12	IGN_LS7	Low Side Ignition 7	
C_13	IGN_LS8	Low Side Ignition 8	
A_6	IGN_LS9	Low Side Ignition 9	
A_7	IGN_LS10	Low Side Ignition 10	
A_8	IGN_LS11	Low Side Ignition 11	
A_9	IGN_LS12	Low Side Ignition 12	
C_23	INJ_LS1	Low Side Injector 1	<div>Digital Output</div> Fuel Cylinder 1 Primary Output <div>Configuration</div> Fuel Cylinder 1 Primary Pin <div>Analogue Input</div> Fuel Cylinder 1 Primary Voltage
C_24	INJ_LS2	Low Side Injector 2	
B_9	INJ_LS3	Low Side Injector 3	
B_15	INJ_LS4	Low Side Injector 4	
B_8	INJ_LS5	Low Side Injector 5	
B_14	INJ_LS6	Low Side Injector 6	
C_19	INJ_PH1	Peak Hold Injector 1	
C_20	INJ_PH2	Peak Hold Injector 2	
C_21	INJ_PH3	Peak Hold Injector 3	
C_22	INJ_PH4	Peak Hold Injector 4	
C_27	INJ_PH5	Peak Hold Injector 5	
C_28	INJ_PH6	Peak Hold Injector 6	
C_29	INJ_PH7	Peak Hold Injector 7	
C_30	INJ_PH8	Peak Hold Injector 8	
B_22	INJ_PH9	Peak Hold Injector 9	
B_23	INJ_PH10	Peak Hold Injector 10	
B_24	INJ_PH11	Peak Hold Injector 11	
B_25	INJ_PH12	Peak Hold Injector 12	
D_7	KNOCK1	Knock Input 1	<div>Analogue Input</div> Knock Cylinder 1
D_7	KNOCK1		

		Differential Knock Input 1.Positive	
D_13	KNOCK2	Differential Knock Input 1.Negative	
D_13	KNOCK2	Knock Input 2	
A_13	KNOCK3	Differential Knock Input 2.Positive	
A_13	KNOCK3	Knock Input 3	
A_14	KNOCK4	Differential Knock Input 2.Negative	
A_14	KNOCK4	Knock Input 4	
A_11	LA_NB1	Lambda Narrow Input 1	
A_12	LA_NB2	Lambda Narrow Input 2	
A_20	LIN	LIN Bus	
C_18	OUT_HB1	Half Bridge Output 1	
C_18	OUT_HB1	Bridge Output 1.Negative	Digital Output Throttle Servo Bank 1 Motor Output
C_1	OUT_HB2	Bridge Output 1.Positive	Digital Output Throttle Servo Bank 1 Motor Output
C_1	OUT_HB2	Half Bridge Output 2	
C_31	OUT_HB3	Bridge Output 2.Negative	
C_31	OUT_HB3	Half Bridge Output 3	
C_32	OUT_HB4	Half Bridge Output 4	<div>Analogue Input</div> Gear Shift Actuator Up Voltage <div>Digital Output</div> Gear Shift Actuator Up Output <div>Configuration</div> Gear Shift Actuator Up Pin
C_32	OUT_HB4	Bridge Output 2.Positive	
C_33	OUT_HB5	Bridge Output 3.Negative	
C_33	OUT_HB5	Half Bridge Output 5	<div>Digital Output</div> Gear Shift Actuator Down Output <div>Configuration</div> Gear Shift Actuator Down Pin <div>Analogue Input</div> Gear Shift Actuator Down Voltage
C_34	OUT_HB6	Half Bridge Output 6	<div>Analogue Input</div> Turbocharger Bypass Actuator Voltage <div>Configuration</div> Turbocharger Bypass Actuator Pin <div>Digital Output</div> Turbocharger Bypass Actuator Output
C_34	OUT_HB6	Bridge Output 3.Positive	
B_20	OUT_HB7	Half Bridge Output 7	
B_20	OUT_HB7	Bridge Output 4.Negative	
B_21	OUT_HB8	Half Bridge Output 8	<div>Analogue Input</div> Boost Actuator Normal Voltage <div>Digital Output</div> Boost Actuator Normal Output
B_21	OUT_HB8	Bridge Output 4.Positive	
B_1	OUT_HB9	Half Bridge Output 9	
B_1	OUT_HB9	Bridge Output 5.Negative	
B_2	OUT_HB10	Half Bridge Output 10	
B_2	OUT_HB10	Bridge Output 5.Positive	
A_21	RS232_RX	RS232.Receive	
A_21	RS232_RX	RS232 Receive	
A_22	RS232_TX	RS232.Transmit	

A_22	RS232_TX	RS232 Transmit	
A_34	SEN_0V_A	Sensor 0V A	
D_15	SEN_0V_A	Sensor 0V A	
A_33	SEN_0V_B	Sensor 0V B	
D_16	SEN_0V_B	Sensor 0V B	
A_26	SEN_0V_C	Sensor 0V C	
A_27	SEN_0V_C	Sensor 0V C	
B_26	SEN_5V0_A	Sensor 5.0V A	Analogue Input ECU Sensor 5V0 A Voltage
C_2	SEN_5V0_A	Sensor 5.0V A	Analogue Input ECU Sensor 5V0 A Voltage
A_19	SEN_5V0_B	Sensor 5.0V B	Analogue Input ECU Sensor 5V0 B Voltage
C_9	SEN_5V0_B	Sensor 5.0V B	Analogue Input ECU Sensor 5V0 B Voltage
A_10	SEN_5V0_C	Sensor 5.0V C	Analogue Input ECU Sensor 5V0 C Voltage
A_18	SEN_5V0_C	Sensor 5.0V C	Analogue Input ECU Sensor 5V0 C Voltage
D_19	SEN_6V3	Sensor 6.3V	Analogue Input ECU Sensor 6V3 Voltage
			Configuration Engine Speed Pin
D_1	UDIG1	Universal Digital Input 1	Digital Input Engine Speed Reference
			Analogue Input Engine Speed Voltage
D_1	UDIG1	Universal Digital Input Pair 1.Phase A	
D_2	UDIG2	Universal Digital Input 2	Analogue Input Driver Switch 1
D_2	UDIG2	Universal Digital Input Pair 1.Phase B	
D_8	UDIG3	Universal Digital Input 3	Analogue Input Driver Switch 2
D_8	UDIG3	Universal Digital Input Pair 2.Phase A	
D_9	UDIG4	Universal Digital Input 4	Analogue Input Driver Switch 3
D_9	UDIG4	Universal Digital Input Pair 2.Phase B	
D_10	UDIG5	Universal Digital Input 5	Analogue Input Driver Switch 4
D_10	UDIG5	Universal Digital Input Pair 3.Phase A	
D_11	UDIG6	Universal Digital Input 6	
D_11	UDIG6	Universal Digital Input Pair 3.Phase B	
			Configuration Engine Synchronisation Pin
D_14	UDIG7	Universal Digital Input 7	Digital Input Engine Synchronisation Position
			Analogue Input Engine Synchronisation Voltage
D_14	UDIG7	Universal Digital Input Pair 4.Phase A	
B_3	UDIG8	Universal Digital Input 8	Analogue Input Wheel Speed Front Left Sensor Voltage
			Digital Input Wheel Speed Front Left Sensor Input

			Configuration	Wheel Speed Front Left Sensor Pin
B_3	UDIG8	Universal Digital Input Pair 4.Phase B		
B_4	UDIG9	Universal Digital Input 9	Added FR Wheelspeed here	
B_4	UDIG9	Universal Digital Input Pair 5.Phase A		
B_5	UDIG10	Universal Digital Input 10	Added BL wheelspeed here	
B_5	UDIG10	Universal Digital Input Pair 5.Phase B		
B_6	UDIG11	Universal Digital Input 11	Added BR wheelspeed here	
B_6	UDIG11	Universal Digital Input Pair 6.Phase A		
B_7	UDIG12	Universal Digital Input 12		
B_7	UDIG12	Universal Digital Input Pair 6.Phase B		