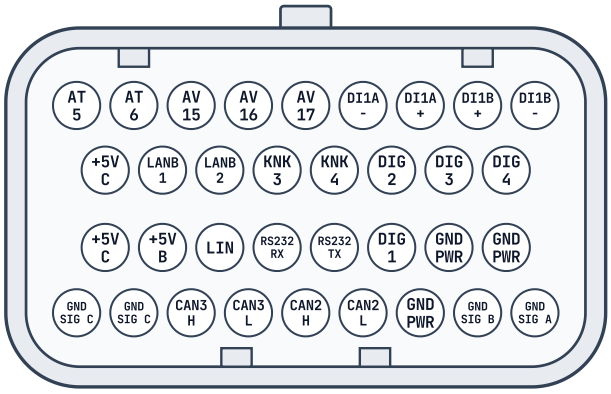
MoTeC M142 pinout

ecurecovery.com/pinouts/motec/m142 · Every pin checked against 3 MoTeC documents · data checked 2026-11-01

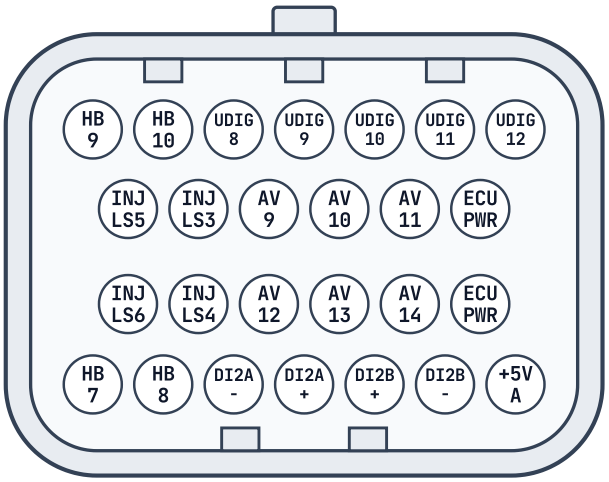
Connector A · 34-pin

CAVITY NUMBERS AS TE CONNECTIVITY, THE PLUG'S MAKER, DRAWS THEM



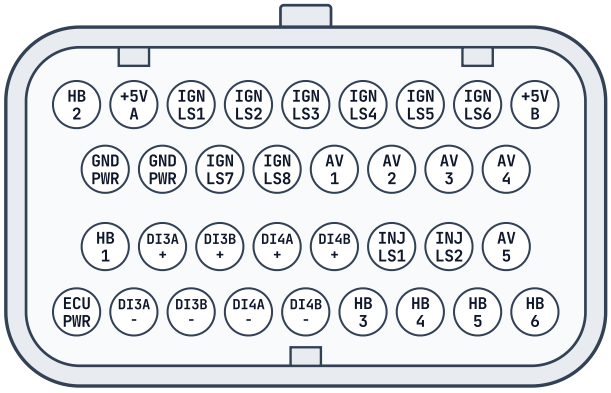
Connector B · 26-pin

CAVITY NUMBERS AS TE CONNECTIVITY DRAWS THEM; KEYS AS IN HALTECH'S DRAWING OF THE SAME KEYING 3 PLUG



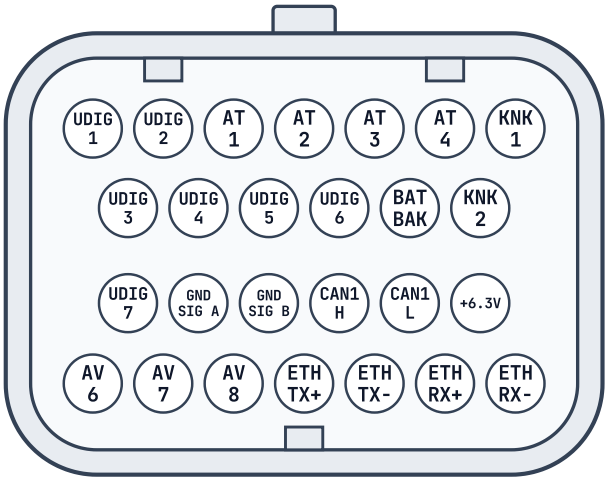
Connector C · 34-pin

CAVITY NUMBERS AS TE CONNECTIVITY, THE PLUG'S MAKER, DRAWS THEM



Connector D · 26-pin

CAVITY NUMBERS AS TE CONNECTIVITY, THE PLUG'S MAKER, DRAWS THEM



MoTeC M142 connector A pinout (34-pin)

Mating connector: Tyco Superseal 34 Position Keying 2 – MoTeC #65067

Pin	Function	MoTeC note
A01	Analogue Temperature Input 5 (AT5)	1k Pull up to SEN_5V_C
A02	Analogue Temperature Input 6 (AT6)	1k Pull up to SEN_5V_C
A03	Analogue Voltage Input 15 (AV15)	
A04	Analogue Voltage Input 16 (AV16)	
A05	Analogue Voltage Input 17 (AV17)	
A06	Direct Injector 1A - (INJ_D1A_NEG)	
A07	Direct Injector 1A + (INJ_D1A_POS)	
A08	Direct Injector 1B + (INJ_D1B_POS)	

Pin	Function	MoTeC note
A09	Direct Injector 1B - (INJ_D1B_NEG)	
A10	Sensor 5.0V C (SEN_5V0_C1)	
A11	Lambda Narrow Input 1 (LA_NB1)	
A12	Lambda Narrow Input 2 (LA_NB2)	
A13	Knock Input 3 (KNOCK3)	
A14	Knock Input 4 (KNOCK4)	
A15	Digital Input 2 (DIG2)	
A16	Digital Input 3 (DIG3)	
A17	Digital Input 4 (DIG4)	
A18	Sensor 5.0V C (SEN_5V0_C2)	
A19	Sensor 5.0V B (SEN_5V0_B2)	
A20	LIN Bus (LIN)	
A21	RS232 Receive (RS232_RX)	
A22	RS232 Transmit (RS232_TX)	
A23	Digital Input 1 (DIG1)	
A24	Battery Negative (BAT_NEG3)	
A25	Battery Negative (BAT_NEG4)	
A26	Sensor 0V C (SEN_0V_C1)	
A27	Sensor 0V C (SEN_0V_C2)	
A28	CAN Bus 3 High (CAN3_HI)	
A29	CAN Bus 3 Low (CAN3_LO)	
A30	CAN Bus 2 High (CAN2_HI)	
A31	CAN Bus 2 Low (CAN2_LO)	
A32	Battery Negative (BAT_NEG5)	
A33	Sensor 0V B (SEN_0V_B1)	
A34	Sensor 0V A (SEN_0V_A1)	

MoTeC M142 connector B pinout (26-pin)

Mating connector: Tyco Superseal 26 Position Keying 3 – MoTeC #65068

Pin	Function	MoTeC note
B01	Half Bridge Output 9 (OUT_HB9)	
B02	Half Bridge Output 10 (OUT_HB10)	
B03	Universal Digital Input 8 (UDIG8)	
B04	Universal Digital Input 9 (UDIG9)	
B05	Universal Digital Input 10 (UDIG10)	
B06	Universal Digital Input 11 (UDIG11)	
B07	Universal Digital Input 12 (UDIG12)	
B08	Low Side Injector 5 (INJ_LS5)	
B09	Low Side Injector 3 (INJ_LS3)	
B10	Analogue Voltage Input 9 (AV9)	
B11	Analogue Voltage Input 10 (AV10)	
B12	Analogue Voltage Input 11 (AV11)	
B13	Battery Positive (BAT_POS)	
B14	Low Side Injector 6 (INJ_LS6)	
B15	Low Side Injector 4 (INJ_LS4)	
B16	Analogue Voltage Input 12 (AV12)	
B17	Analogue Voltage Input 13 (AV13)	
B18	Analogue Voltage Input 14 (AV14)	
B19	Battery Positive (BAT_POS)	
B20	Half Bridge Output 7 (OUT_HB7)	

Pin	Function	MoTeC note
B21	Half Bridge Output 8 (OUT_HB8)	
B22	Direct Injector 2A - (INJ_D2A_NEG)	
B23	Direct Injector 2A + (INJ_D2A_POS)	
B24	Direct Injector 2B + (INJ_D2B_POS)	
B25	Direct Injector 2B - (INJ_D2B_NEG)	
B26	Sensor 5.0V A (SEN_5V0_A)	

MoTeC M142 connector C pinout (34-pin)

Mating connector: Tyco Superseal 34 Position Keying 1 – MoTeC #65044

Pin	Function	MoTeC note
C01	Half Bridge Output 2 (OUT_HB2)	
C02	Sensor 5.0V A (SEN_5V0_A)	
C03	Low Side Ignition 1 (IGN_LS1)	
C04	Low Side Ignition 2 (IGN_LS2)	
C05	Low Side Ignition 3 (IGN_LS3)	
C06	Low Side Ignition 4 (IGN_LS4)	
C07	Low Side Ignition 5 (IGN_LS5)	
C08	Low Side Ignition 6 (IGN_LS6)	
C09	Sensor 5.0V B (SEN_5V0_B)	
C10	Battery Negative (BAT_NEG1)	
C11	Battery Negative (BAT_NEG2)	
C12	Low Side Ignition 7 (IGN_LS7)	
C13	Low Side Ignition 8 (IGN_LS8)	
C14	Analogue Voltage Input 1 (AV1)	
C15	Analogue Voltage Input 2 (AV2)	
C16	Analogue Voltage Input 3 (AV3)	
C17	Analogue Voltage Input 4 (AV4)	
C18	Half Bridge Output 1 (OUT_HB1)	
C19	Direct Injector 3A + (INJ_D3A_POS)	
C20	Direct Injector 3B + (INJ_D3B_POS)	
C21	Direct Injector 4A + (INJ_D4A_POS)	
C22	Direct Injector 4B + (INJ_D4B_POS)	
C23	Low Side Injector 1 (INJ_LS1)	
C24	Low Side Injector 2 (INJ_LS2)	
C25	Analogue Voltage Input 5 (AV5)	
C26	Battery Positive (BAT_POS)	
C27	Direct Injector 3A - (INJ_D3A_NEG)	
C28	Direct Injector 3B - (INJ_D3B_NEG)	
C29	Direct Injector 4A - (INJ_D4A_NEG)	
C30	Direct Injector 4B - (INJ_D4B_NEG)	
C31	Half Bridge Output 3 (OUT_HB3)	
C32	Half Bridge Output 4 (OUT_HB4)	
C33	Half Bridge Output 5 (OUT_HB5)	
C34	Half Bridge Output 6 (OUT_HB6)	

MoTeC M142 connector D pinout (26-pin)

Mating connector: Tyco Superseal 26 Position Keying 1 – MoTeC #65045

Pin	Function	MoTeC note
D01	Universal Digital Input 1 (UDIG1)	

Pin	Function	MoTeC note
D02	Universal Digital Input 2 (UDIG2)	
D03	Analogue Temperature Input 1 (AT1)	1k Pull up to SEN_5V_A
D04	Analogue Temperature Input 2 (AT2)	1k Pull up to SEN_5V_A
D05	Analogue Temperature Input 3 (AT3)	1k Pull up to SEN_5V_B
D06	Analogue Temperature Input 4 (AT4)	1k Pull up to SEN_5V_B
D07	Knock Input 1 (KNOCK1)	
D08	Universal Digital Input 3 (UDIG3)	
D09	Universal Digital Input 4 (UDIG4)	
D10	Universal Digital Input 5 (UDIG5)	
D11	Universal Digital Input 6 (UDIG6)	
D12	Battery Backup (BAT_BAK)	
D13	Knock Input 2 (KNOCK2)	
D14	Universal Digital Input 7 (UDIG7)	
D15	Sensor 0V A (SEN_0V_A)	
D16	Sensor 0V B (SEN_0V_B)	
D17	CAN Bus 1 High (CAN1_HI)	
D18	CAN Bus 1 Low (CAN1_LO)	
D19	Sensor 6.3V (SEN_6V3)	
D20	Analogue Voltage Input 6 (AV6)	
D21	Analogue Voltage Input 7 (AV7)	
D22	Analogue Voltage Input 8 (AV8)	
D23	Ethernet Transmit+ (ETH_TX+)	Ethernet
D24	Ethernet Transmit- (ETH_TX-)	Ethernet Green
D25	Ethernet Receive+ (ETH_RX+)	Ethernet
D26	Ethernet Receive- (ETH_RX-)	Ethernet Orange

Where this comes from

MoTeC datasheet

M142 ECU datasheet (MoTeC part 13142)

MoTeC product page (pinout tables)

MoTeC M142 product page, pinout tables (motec.com.au)

MoTeC hardware manual

M1 ECU Hardware (MoTeC tech note, 7 Nov 2013)

Plug drawing: TE Connectivity customer drawing (used for the drawing only) Third party

TE Connectivity customer drawing C-2-1437285-3, Superseal 1.0 34/26-position plug housings (copy hosted by Corsa Technic)