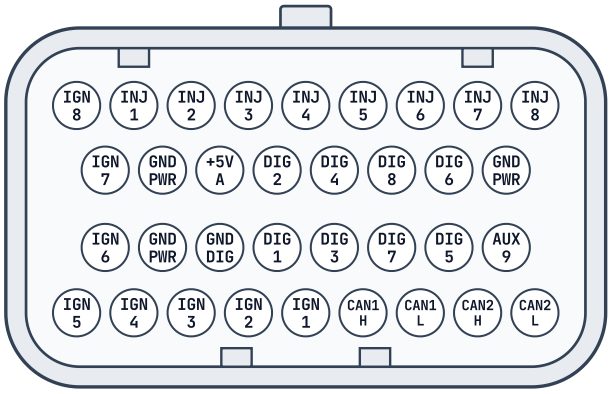
ECUMaster EMU PRO 16 pinout

ecurecovery.com/pinouts/ecumaster/emu-pro-16 · Every pin from ECUMaster's own pinout for this ECU, read twice · data checked 2026-11-01

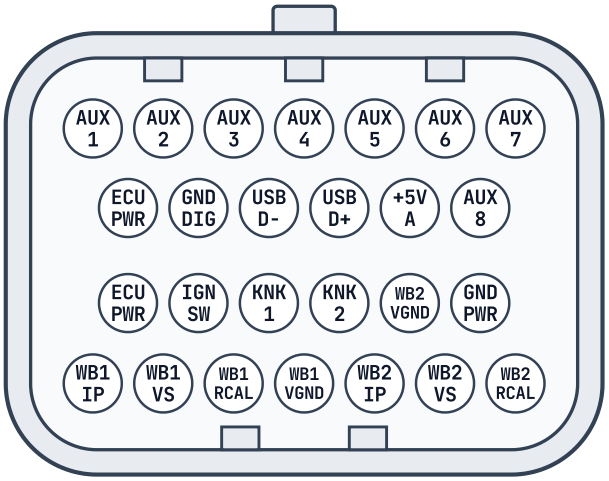
Connector A · 34-pin

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



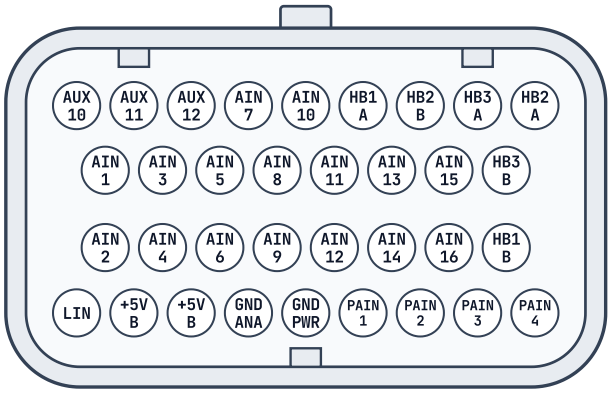
Connector B · 26-pin

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



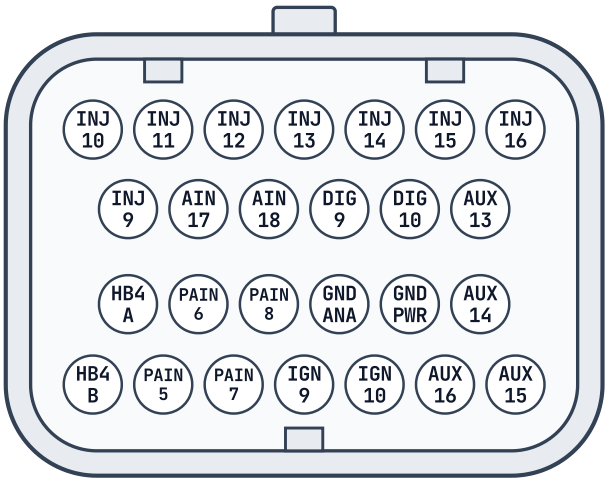
Connector C · 34-pin

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



ECUMaster EMU PRO 16 connector A pinout (34-pin)

Mating connector: TE AMP Superseal 1.0 4-1437290-1

Pin	Function	ECUMaster note
A1	Ignition 8	Output for active or passive ignition coils.
A2	Injector 1	Output for high or low impedance injectors.
A3	Injector 2	Output for high or low impedance injectors.
A4	Injector 3	Output for high or low impedance injectors.
A5	Injector 4	Output for high or low impedance injectors.
A6	Injector 5	Output for high or low impedance injectors.
A7	Injector 6	Output for high or low impedance injectors.

Pin	Function	ECUMaster note
A8	Injector 7	Output for high or low impedance injectors.
A9	Injector 8	Output for high or low impedance injectors.
A10	Ignition 7	Output for active or passive ignition coils.
A11	Power GND	Power ground.
A12	+5V source A	+5V sensor supply, source A.
A13	Digital 2	Digital signal input.
A14	Digital 4	Digital signal input.
A15	Digital 8	Digital signal input.
A16	Digital 6 (turbo)	Digital signal input, can be used for turboshaft speed sensor.
A17	Power GND	Power ground.
A18	Ignition 6	Output for active or passive ignition coils.
A19	Power GND	Power ground.
A20	Digital GND	Digital ground.
A21	Digital 1 (crank)	Digital signal input, dedicated crankshaft sensor input.
A22	Digital 3	Digital signal input.
A23	Digital 7	Digital signal input.
A24	Digital 5 (turbo)	Digital signal input, can be used for turboshaft speed sensor.
A25	Auxiliary 9	Output for auxiliary devices.
A26	Ignition 5	Output for active or passive ignition coils.
A27	Ignition 4	Output for active or passive ignition coils.
A28	Ignition 3	Output for active or passive ignition coils.
A29	Ignition 2	Output for active or passive ignition coils.
A30	Ignition 1	Output for active or passive ignition coils.
A31	CAN 1 high (PC comm)	CAN bus, fixed 1Mbps, used for communication with PC and peripheral devices.
A32	CAN 1 low (PC comm)	CAN bus, fixed 1Mbps, used for communication with PC and peripheral devices.
A33	CAN 2 high	CAN bus, configurable speed, used for communication with peripheral devices.
A34	CAN 2 low	CAN bus, configurable speed, used for communication with peripheral devices.

ECUMaster EMU PRO 16 connector B pinout (26-pin)

Mating connector: TE AMP Superseal 1.0 1473416-1

Pin	Function	ECUMaster note
B1	Auxiliary 1 (WBO heater)	Output for auxiliary devices, can be used as a WBO heater.
B2	Auxiliary 2 (WBO heater)	Output for auxiliary devices, can be used as a WBO heater.
B3	Auxiliary 3 (WBO heater)	Output for auxiliary devices, can be used as a WBO heater.
B4	Auxiliary 4 (WBO heater)	Output for auxiliary devices, can be used as a WBO heater.
B5	Auxiliary 5	Output for auxiliary devices.
B6	Auxiliary 6	Output for auxiliary devices.
B7	Auxiliary 7	Output for auxiliary devices.
B8	+12V supply	Power supply for the ECU and H-bridges.
B9	Digital GND (flash drive)	Digital ground, recommended for flash drive connection.
B10	USB D- (flash drive)	USB data pin for a flash drive, data logging.
B11	USB D+ (flash drive)	USB data pin for a flash drive, data logging.
B12	+5V source A (flash drive)	+5V sensor supply, source A, recommended for flash drive connection.
B13	Auxiliary 8	Output for auxiliary devices.
B14	+12V supply	Power supply for the ECU and H-bridges.
B15	+12V switched	+12V input to switch the ECU on or off.
B16	Knock sensor 1	Knock sensor input.
B17	Knock sensor 2	Knock sensor input.
B18	WBO 2 VGND (LSU 4.9)	Wideband oxygen sensor input, LSU 4.9 Pin 2 (IPN / VM).
B19	Power GND	Power ground.

Pin	Function	ECUMaster note
B20	WBO 1 IP (LSU 4.9)	Wideband oxygen sensor input, LSU 4.9 Pin 1 (APE / IP).
B21	WBO 1 VS (LSU 4.9)	Wideband oxygen sensor input, LSU 4.9 Pin 6 (UN / RE).
B22	WBO 1 RCAL (LSU 4.9)	Wideband oxygen sensor input, LSU 4.9 Pin 5 (RT / IA).
B23	WBO 1 VGND (LSU 4.9)	Wideband oxygen sensor input, LSU 4.9 Pin 2 (IPN / VM).
B24	WBO 2 IP (LSU 4.9)	Wideband oxygen sensor input, LSU 4.9 Pin 1 (APE / IP).
B25	WBO 2 VS (LSU 4.9)	Wideband oxygen sensor input, LSU 4.9 Pin 6 (UN / RE).
B26	WBO 2 RCAL (LSU 4.9)	Wideband oxygen sensor input, LSU 4.9 Pin 5 (RT / IA).

ECUMaster EMU PRO 16 connector C pinout (34-pin)

Mating connector: TE AMP Superseal 1.0 4-1437290-0

Pin	Function	ECUMaster note
C1	Auxiliary 10	Output for auxiliary devices.
C2	Auxiliary 11	Output for auxiliary devices.
C3	Auxiliary 12	Output for auxiliary devices.
C4	Analog 7	Analog signal input.
C5	Analog 10 (2k2 pull)	Analog signal input.
C6	H-bridge 1A	H-bridge output.
C7	H-bridge 2B	H-bridge output.
C8	H-bridge 3A	H-bridge output.
C9	H-bridge 2A	H-bridge output.
C10	Analog 1 (MAP)	Analog signal input, dedicated MAP sensor input.
C11	Analog 3	Analog signal input.
C12	Analog 5	Analog signal input.
C13	Analog 8	Analog signal input.
C14	Analog 11 (2k2 pull)	Analog signal input.
C15	Analog 13 (1k pull)	Analog signal input.
C16	Analog 15 (330R pull)	Analog signal input.
C17	H-bridge 3B	H-bridge output.
C18	Analog 2	Analog signal input.
C19	Analog 4	Analog signal input.
C20	Analog 6	Analog signal input.
C21	Analog 9 (2k2 pull)	Analog signal input.
C22	Analog 12 (2k2 pull)	Analog signal input.
C23	Analog 14 (1k pull)	Analog signal input.
C24	Analog 16 (100R pull)	Analog signal input.
C25	H-bridge 1B	H-bridge output.
C26	LIN	LIN network.
C27	+5V source B	+5V sensor supply, source B.
C28	+5V source B	+5V sensor supply, source B.
C29	Analog GND	Analog ground.
C30	Power GND	Power ground.
C31	Precision analog 1	High precision analog input.
C32	Precision analog 2	High precision analog input.
C33	Precision analog 3	High precision analog input.
C34	Precision analog 4	High precision analog input.

ECUMaster EMU PRO 16 connector D pinout (26-pin)

Mating connector: TE AMP Superseal 1.0 3-1437290-7

Pin	Function	ECUMaster note
D1	Injector 10	Output for high or low impedance injectors.
D2	Injector 11	Output for high or low impedance injectors.
D3	Injector 12	Output for high or low impedance injectors.
D4	Injector 13	Output for high or low impedance injectors.
D5	Injector 14	Output for high or low impedance injectors.
D6	Injector 15	Output for high or low impedance injectors.
D7	Injector 16	Output for high or low impedance injectors.
D8	Injector 9	Output for high or low impedance injectors.
D9	Analog 17	Analog signal input.
D10	Analog 18	Analog signal input.
D11	Digital 9 / Analog 19	Digital signal input or Analog signal input.
D12	Digital 10 / Analog 20	Digital signal input or Analog signal input.
D13	Auxiliary 13	Output for auxiliary devices.
D14	H-bridge 4A	H-bridge output.
D15	Precision analog 6	High precision analog input.
D16	Precision analog 8	High precision analog input.
D17	Analog GND	Analog ground.
D18	Power GND	Power ground.
D19	Auxiliary 14	Output for auxiliary devices.
D20	H-bridge 4B	H-bridge output.
D21	Precision analog 5	High precision analog input.
D22	Precision analog 7	High precision analog input.
D23	Ignition 9	Output for active or passive ignition coils.
D24	Ignition 10	Output for active or passive ignition coils.
D25	Auxiliary 16	Output for auxiliary devices.
D26	Auxiliary 15	Output for auxiliary devices.

Where this comes from

ECUMaster pinout for this ECU

EMU PRO 16 Pinout v1.0

ECUMaster guide for the EMU PRO 8, the same pin

EMU PRO 8 Pinout (mini) v1.0: connectors A, B and C are the same pins

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)