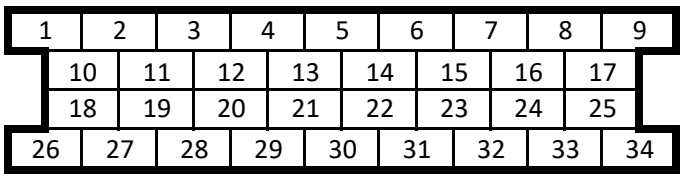
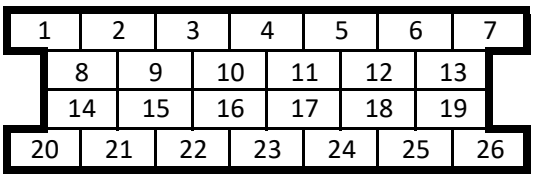
PnPduino Universal ECU

34 Pin INPUT A-PLUG



ECU PIN	LABEL	LONG DESCRIPTION	Arduino PIN
A1	INP4	Spare Input 4	A11
A2	INP1	Spare Input 1	A8
A3	CLT	Engine Coolant Temp	A4
A4	TPS	Throttle Position Sensor	A3
A5	O2	Wideband O2 Sensor	A1
A6	VR2+	VR2+ or Hall Sensor 2	D18
A7	VR1+	VR1+ or Hall Sensor 1	D19
A8	5V Out	5V Out to sensors	
A9	12V In	12V Input from Ignition switch	
A10	INP3	Spare Input 3	A10
A11	IAT	Intake Air Temperature	A5
A12	PG	Power Ground for Wideband	
A13	PG	Power Ground	
A14	CLUTCH	Clutch Switch	37
A15	VR2-	VR2- / Hall Sensor2 Logic Ground	
A16	VR1-	VR1- / Hall Sensor1 Logic Ground	
A17	INP5	Spare Input 5	A6
A18	GPI	GPI for Serial 3 Connection	15
A19	INP2	Spare Input 2	A9
A20	12V Out	Fused 12V Supply(sensors only)	
A21	12V Out	Fused 12V Supply(sensors only)	
A22	12V Out	Fused 12V Supply(sensors only)	
A23	12V Out	Fused 12V Supply(sensors only)	
A24	VSS	Vehicle Speed Sensor	20
A25	INP7	Spare Input 7	A13
A26	EXTMAP	External MAP sensor	A0
A27	GPO	GPO for Serial 3 Connection	14
A28	FLEX	Flex Fuel Sensor	2
A29	HALL4	Hall Sensor 4	3
A30	GRND	ECU Ground	
A31	GRND	Power Ground	
A32	GRND	Sensor Ground	
A33	HALL3	Hall Sensor 3	21
A34	INP6	Spare Input 6	A12

26 Pin OUTPUT B-PLUG



ECU PIN	LABEL	LONG DESCRIPTION	Arduino PIN
B1	VVT	VVT/VVTI or VTEC/VTC terminology	11
B2	IDLE2	Idle 2 or Spare High Current 1	10
B3	IDLE1	Idle 1 for IACV Solenoid	9
B4	INJ4	Injector 4	5
B5	INJ3	Injector 3	6
B6	INJ2	Injector 2	7
B7	INJ1	Injector 1	8
B8	BOOST	Boost or Spare Hi Current 2	12
B9	LC3	Low Current Output 3	28
B10	LC2	Low Current Output 2	27
B11	LC1	Low Current Output 1	26
B12	FAN	Radiator Fan 1	24
B13		~Not Connected~	
B14	IGN4	Ignition Output 4	34
B15	IGN3	Ignition Output 3	33
B16	LC4	Low Current Output 4	29
B17		~Not Connected~	
B18	FAN2	Fan 2 or Spare Low Current Output	25
B19	TACH	Tachometer Output 5V or 12V	22
B20	IGN1	Ignition Output 1	35
B21	IGN2	Ignition Output 2	36
B22	STP-B2	Stepper Idle Air Coil B2	
B23	STP-B1	Stepper Idle Air Coil B1	
B24	STP-A1	Stepper Idle Air Coil A1	
B25	STP-A2	Stepper Idle Air Coil A2	
B26	FUELP	Fuel Pump or Circuit Opening Relay	23

IDLE2 and BOOST can be used for High Current Outputs.
FAN2 can be used for low current output
Arduino Pin # is the Pin that you select in Tunerstudio. Do not change the Board Default Pins unless you know what you are doing.
Do not use Chassis Ground to avoid noise
Ignition output is 5V only, not 12V