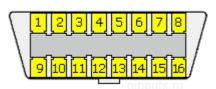
# Isuzu OBD II diagnostic interface pinout

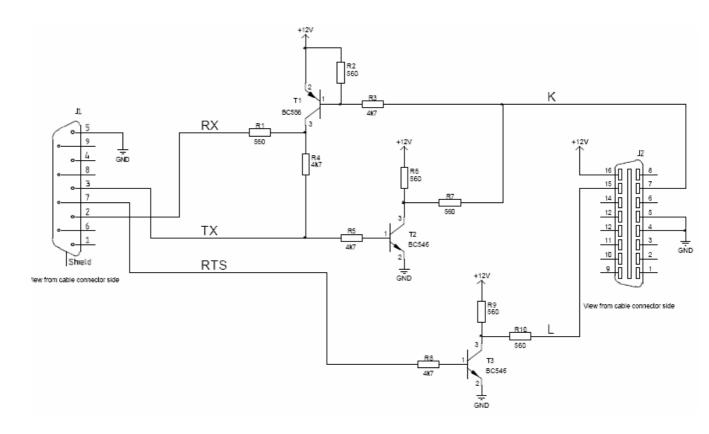




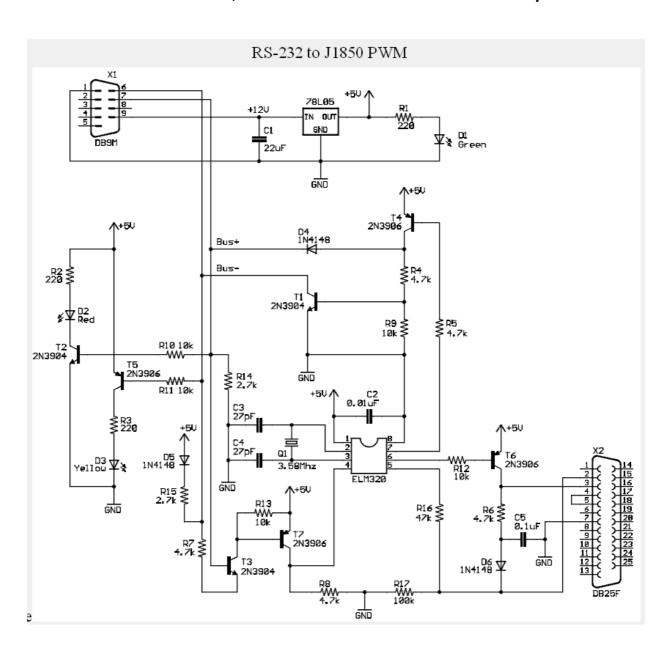
Pill Number	Pill Name	Isuzii veliicle function
1		SIR (GM8192 Plot.)
9	J1850	n/a
3		ABS (KW81-Piot.)
4	GND	Chassis gioiuid
5	SGND	Signal Gioiuid
6	HS-CAN	тем
n	K-Liiie	K-Line, Kl (engine)
8		n/a
9		ECM/TCM (GM8192
10	PWM	Plot.) n/a
11	1 111	SIR
12		ABS
13		ECU
14	HS-CAN(-)	n/a
15	L-Liiie	n/a
16	Battery+	Batteiy +, imswitchecl

### **Some OBD-II cables schemes:**

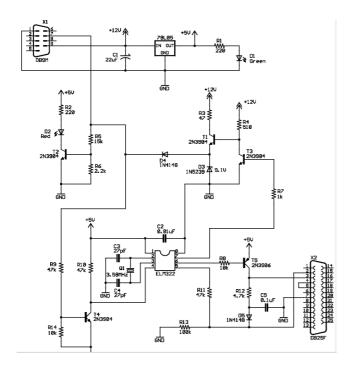
## OBD-2 ISO 9141-2 (14230-4, KWP2000) simple RS-232 cable schematic pinout



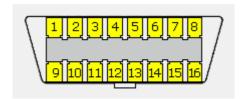
### OBD-2 J1850 PWM, J1850 VPW RS-232 cables schematics pinout



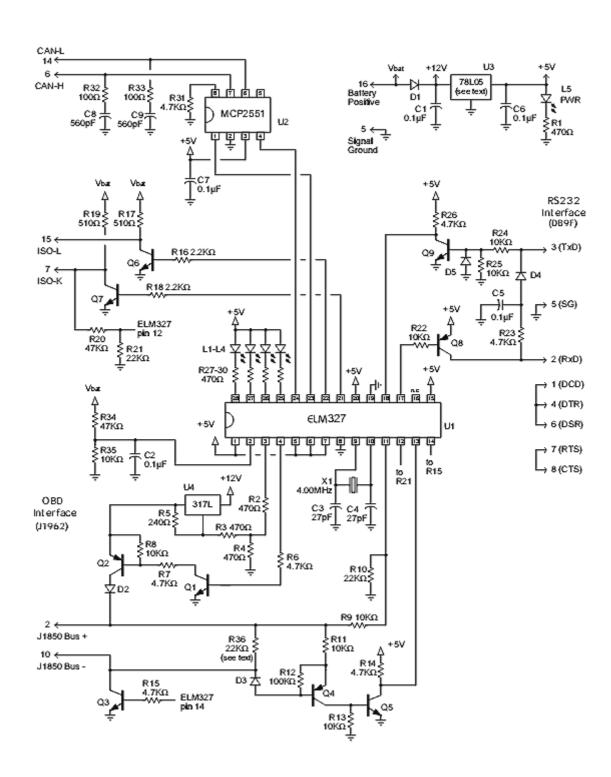
#### RS-232 to J1850 VPW



OBD-2 universal diagnostic cable scheme for ISO 15765-4 CAN, SAE J1850 PWM, SAE J1850 VPW, ISO 9141-2, ISO 14230-4 and SAE J1939 pinout



This device is a microcontroller which is designed to interface a personal computer or laptop with a vehicle's On Board Diagnostic (OBD II) interface. It is intended to function with all protocols used by vehicle manufacturers to implement the OBD II system as defined by SAE and ISO specifications. The OBD II system became mandatory for 1996 and up vehicles, but some vehicles were already fully or partially compatible with OBD II requirements prior to 1996. The chip is not suitable for the earlier vehicles such as OBD I. The device is intended to function as a simple scan tool and is capable of sending and receiving any OBD II message defined in SAE J1979 for any of the three types of OBDII bus implementations (PWM, VPW, ISO 9141-2). It can also be used as an inexpensive interface for custom instrumentation monitoring various vehicle parameters such as speed, RPM, coolant or intake air temperature, engine load



#### **Components:**

D1=1N4001

D2,S3,D4,D5=1N4148

L1,L2,L3,L4=Yellow

L5=Green LED

LED

Q1,Q3,Q5,Q6,Q7,Q9=2N3904(NPN)		
Q2,Q4,Q8=2N3906(PNP)		
U1=ELM327		
U2=MCP2551		
U3=78L05(5V,	100mA	regulator)
U4=317L (adj. 100 mA regulator)		
04.00.05.00.07.04.45		401/
C1,C2,C5,C6,C7=0.1uF		16V
C3,C4=27p		
C8,C9=560pF		
R32,R33=100		Ohm
R5=240		Ohm
R1,R2,R3,R4,R27,R28,R29,R30=470		Ohm
R17,R19=510	Ohm	1/2W
R16,R18=2.2		KOhm
R6,R7,R14,R15,R23,R26,R31=4.7	KOhm	
R8,R9,R11,R13,R22,R24,R25,R35=10		KOhm
R10,R21,R36=22		KOhm
R20,R34=47		KOhm
R12=100 KOhm		
X1=4.000MHz crystal		
RS232 conn=DB-9 female		
IC Socket=28 pin 0.3 (or 2x14 pin)		