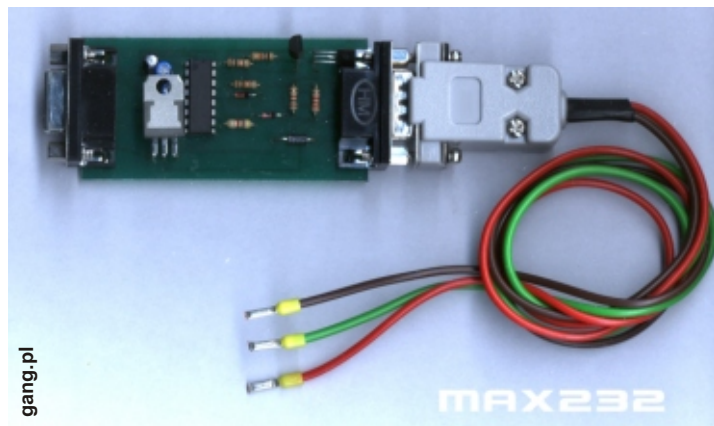


general
automobile
national
group
● pl

diagnostic interface MAX232

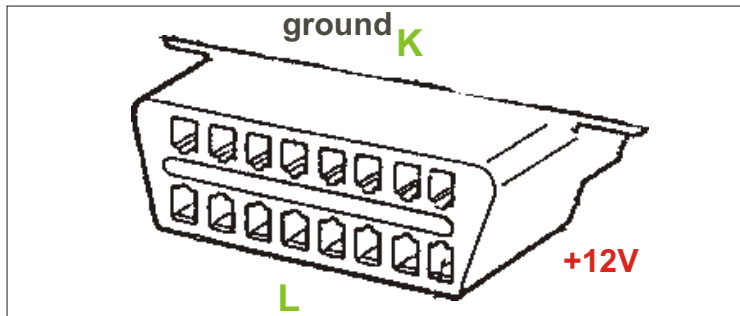
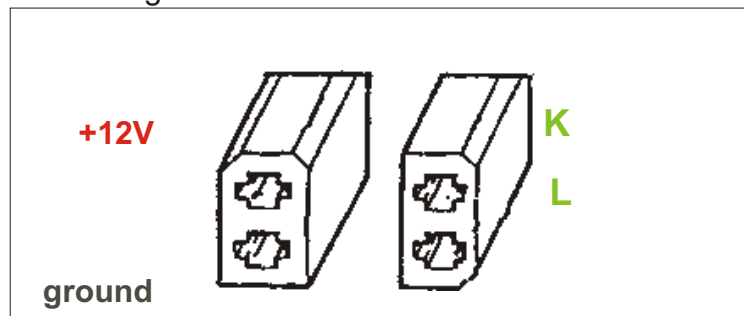


ISO 9141-2 / SAE J1962 protocol

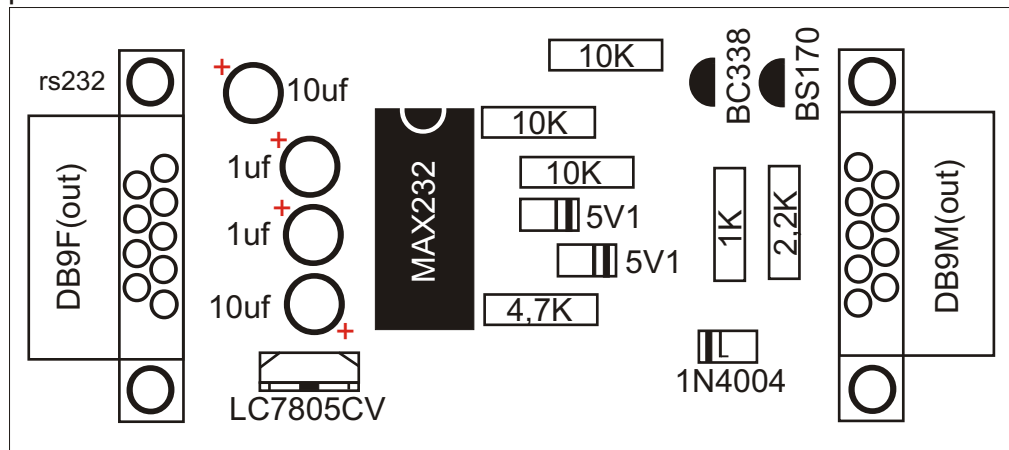
brown - ground
red - power +12 V
green - L+ K universal diagnostic line

PC software system - DOS, Windows

connecting

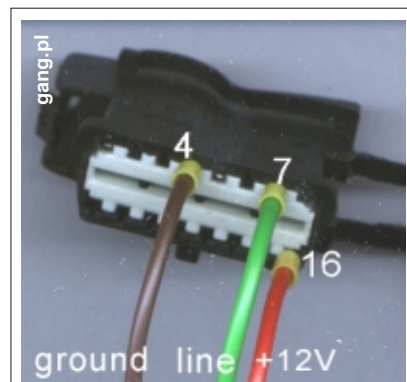


placement

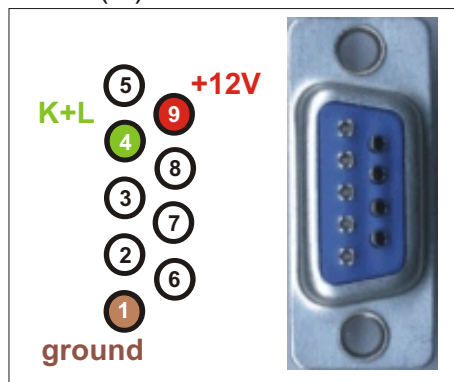


elements

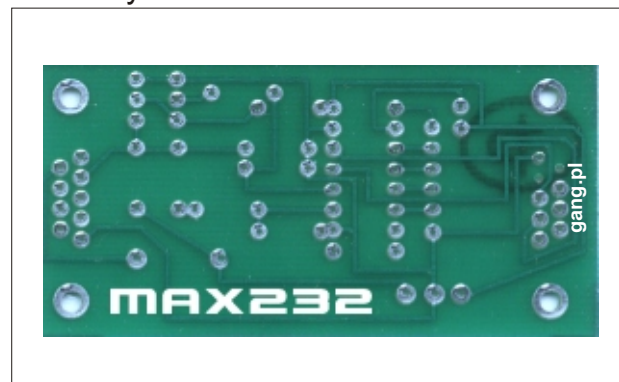
P	S	TYPE	NOTE
1	U ₁	MAX232	do not overheat
1	T ₁	BS170	
1	T ₂	BC338	
1	ST ₁	LC7805CV	
2	D _{1,2}	5V1	
1	D ₃	1N4004	female male
1	R ₁	2.2K	
1	R ₂	1K	
3	R _{3,4,5}	10K	
1	R ₆	4.7K	
2	C _{1,2}	1uf	
2	C _{3,4}	10uf	
2	DB9F	in/out	
1	DB9M	out	



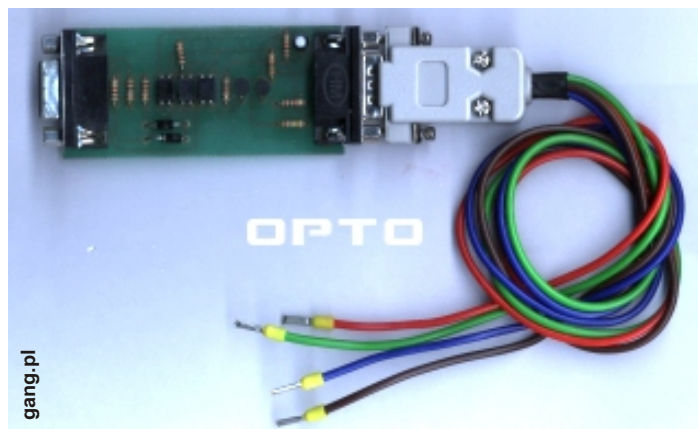
DB9F (in)



board layout



diagnostic interface OPTO

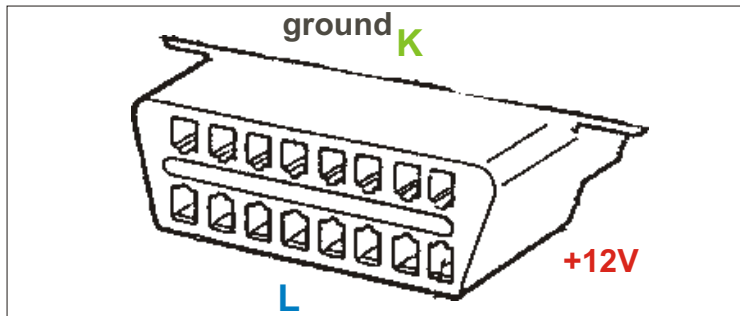
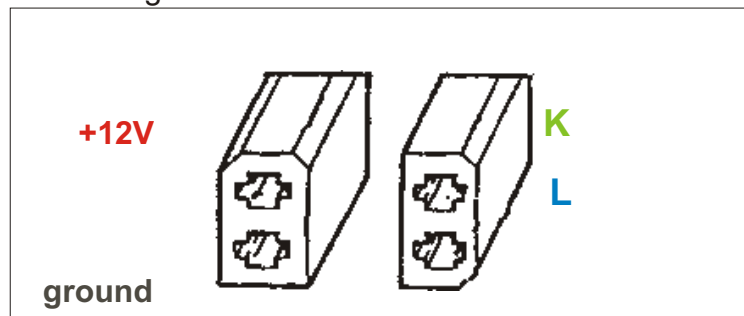


ISO 9141-2 / SAE J1962 protocol

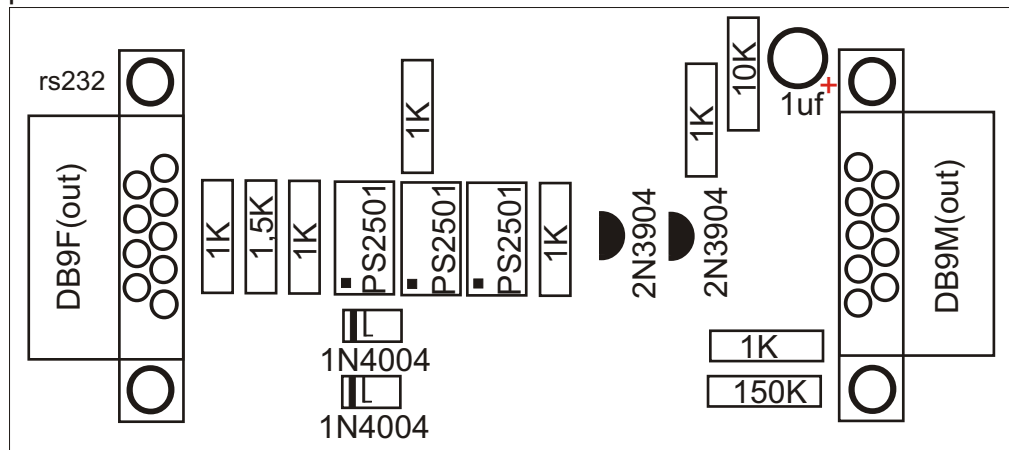
brown - ground
red - power +12 V
green - K diagnostic line
blue - L diagnostic line

PC software system - Windows

connecting

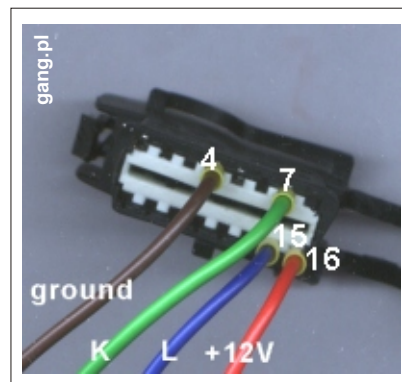


placement

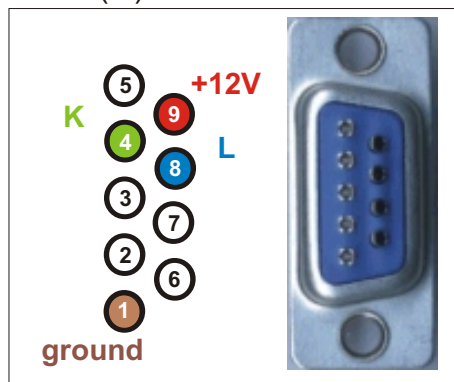


elements

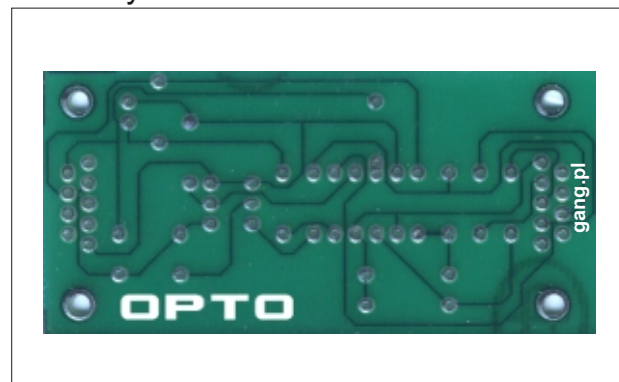
P	S	TYPE	NOTE
3	O _{1,2,3}	PS2501	female male
2	T _{1,2}	2N3904	
2	D _{1,2}	1N4004	
6	R ₁₋₆	1K	
1	R ₇	1,5K	
1	R ₈	10K	
1	R ₉	150K	
1	C ₁	1uF	
2	DB9F	in/out	
1	DB9M	out	



DB9F (in)

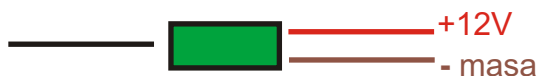


board layout



➡ test interfejsów OBD2 programem VAG-COM

1. podłącz interfejs do komputera kablem RS232 (przedłużacz myszy)
2. podłącz zasilanie do interfejsu (zasilacz **+12V** lub akumulator)

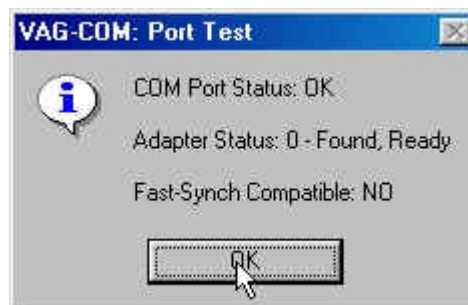
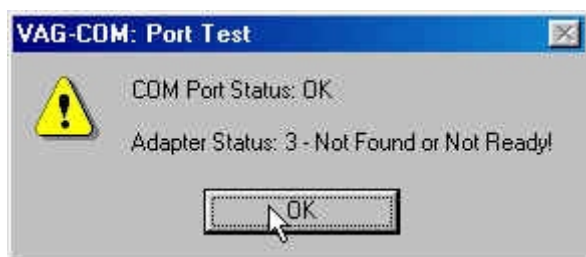


3. uruchom program VAG-COM i wybierz "OPTIONS"
4. wybierz opcję "TEST"

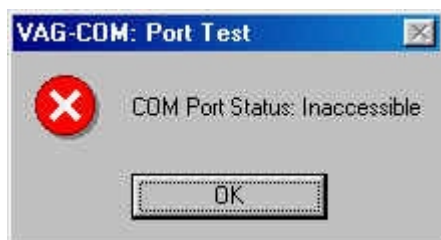


5. jeżeli otrzymałeś komunikat "**NOT FOUND...**" to znaczy, że interfejs został źle zmontowany

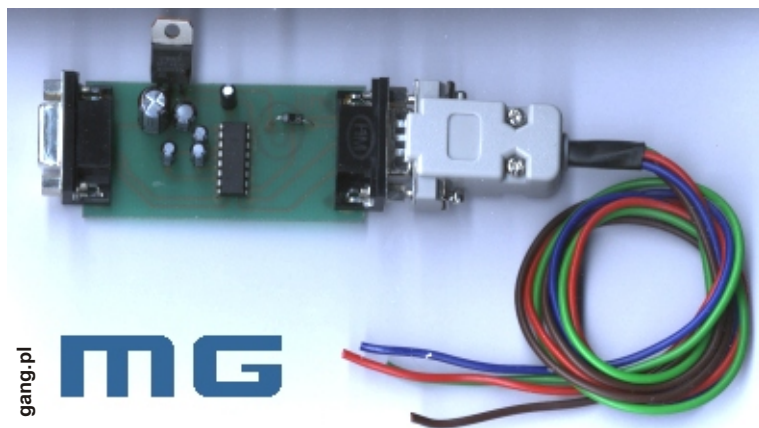
6. jeżeli komunikat brzmi "**FOUND, READY...**" możesz śmiało przystąpić do diagnozy pojazdu.



uwaga ! w przypadku otrzymania komunikatu "COM Port Status Inaccessible" należy zmienić port COM w komputerze lub wyłączyć program, który z niego korzysta.



interface MG



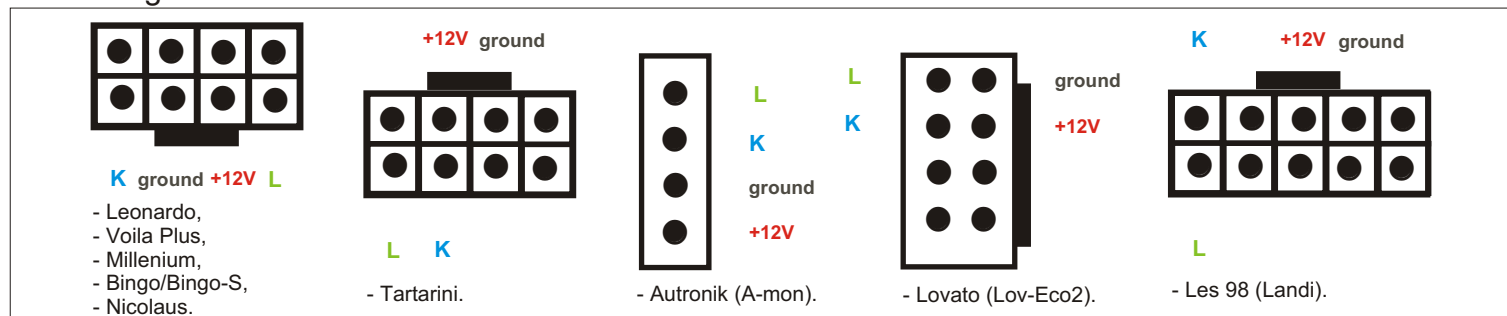
Rx, Tx RECEIVER/TRANSMITTER



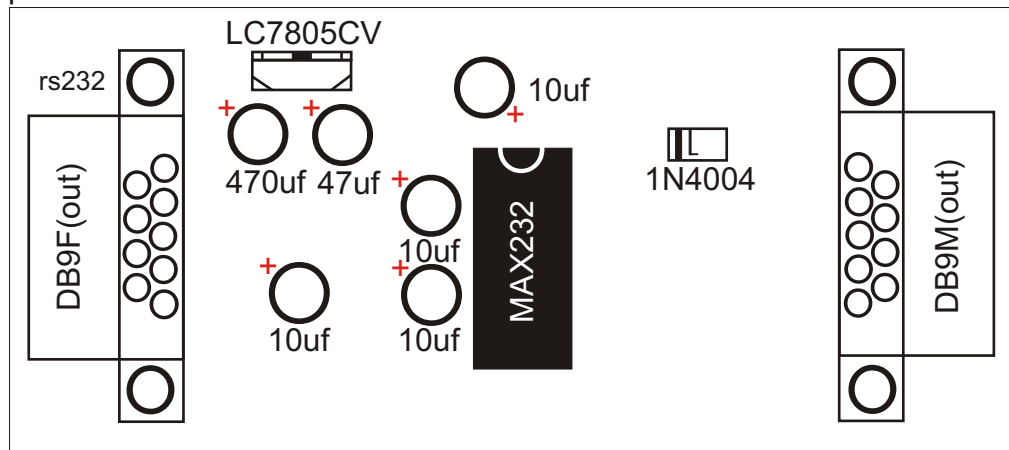
brown - ground
red - power +12 V
green - L line (Rx out)
blue - K line (Tx in)

PC software system - DOS, Windows

connecting LPG



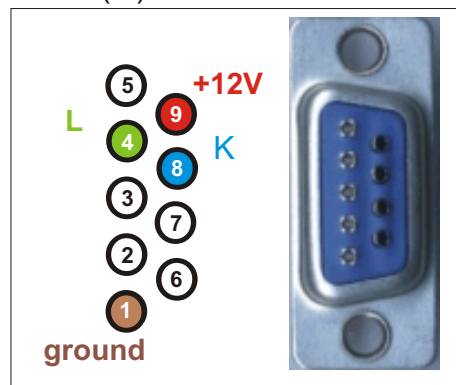
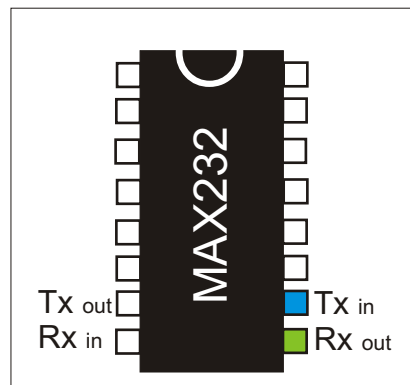
placement



elements

P	S	TYPE	NOTE
1	U ₁	MAX232	
1	D ₁	1N4004	
1	ST ₁	LC7805CV	
1	C ₁	470uf	
1	C ₂	47uf	
4	C _{3,4,5,6}	10uf	
2	DB9F	in/out	female
1	DB9M	out	male

DB9F (in)



board layout

