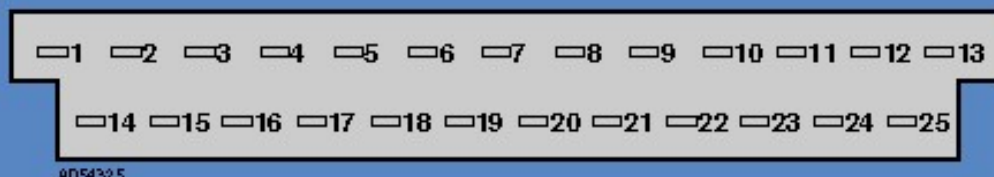
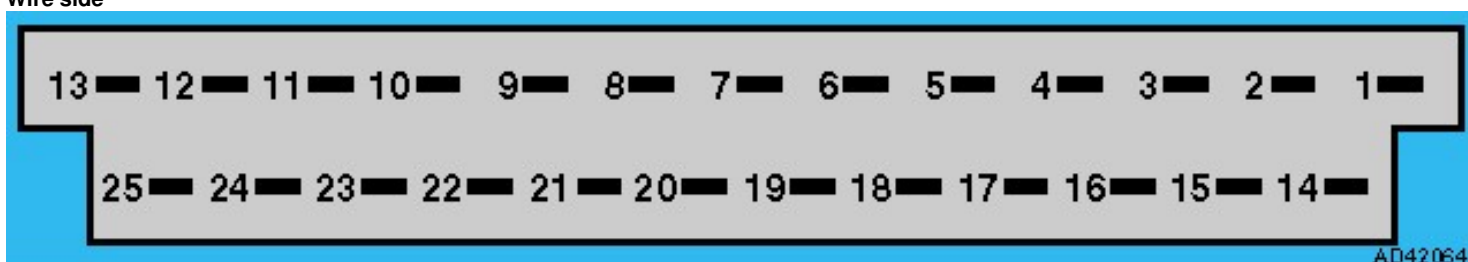


Terminal side



Wire side



Component/circuit description	ECM pin	Signal	Condition	Typical value	Oscilloscope setting (Suggested settings - Voltage/time per division)	Wave form
Air conditioning	15			Connected pin - no test data available or random digital signal		
Air conditioning	16			Connected pin - no test data available or random digital signal		
Battery	4	←	Ignition OFF	11-14 V		
Data link connector (DLC)	22			Connected pin - no test data available or random digital signal		
Earth	5		Ignition ON	0 V		
Earth	25		Ignition ON	0 V		
Earth - MT	6		Ignition ON	0 V		
Engine control relay	9	←	Ignition ON	11-14 V		
Engine coolant temperature (ECT) sensor	2	←	Ignition ON - coolant temp. 15°C	2,2 V		
Engine coolant temperature (ECT) sensor	2	←	Ignition ON - coolant temp. 80°C	0,4 V		
Evaporative emission (EVAP) canister purge valve - if fitted	12	↔	Ignition ON	11-14 V		

Manufacturer: Fiat
Engine code: 160A1.046
Tuned for: R-Cat

Model: Tipo 1,4
Output: 52 (70) 6000
Year: 1988-95

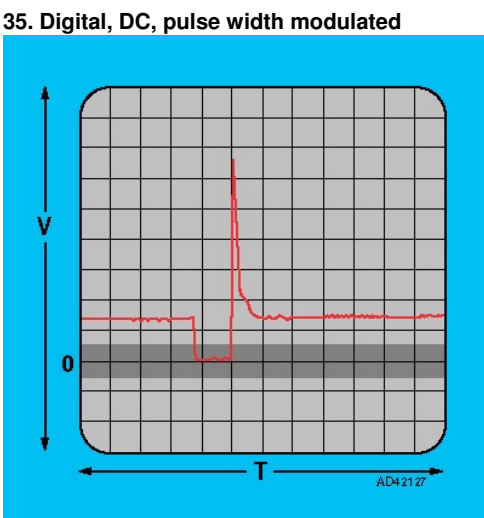
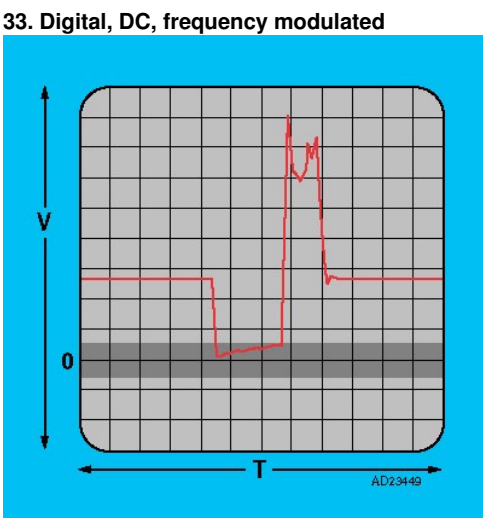
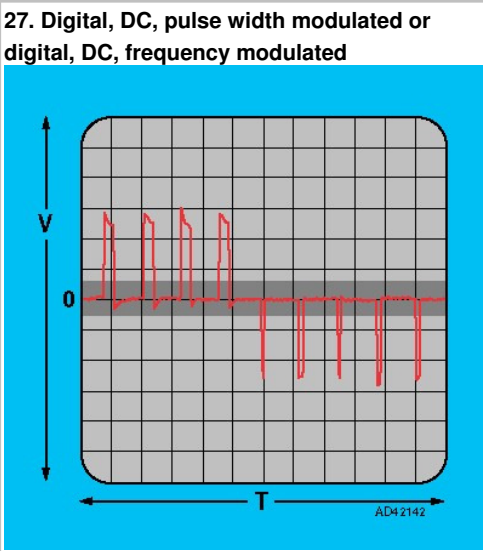
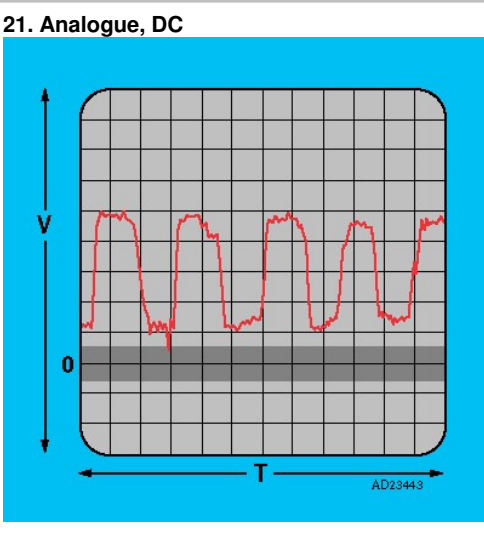
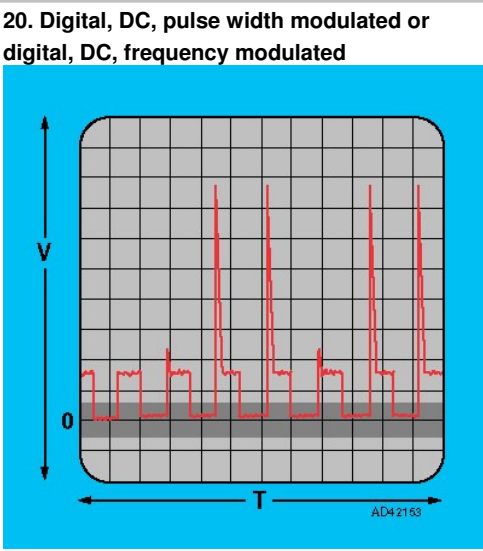
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Evaporative emission (EVAP) canister purge valve - if fitted	12		Engine hot - valve operating		10 V/20 ms	 20
Fuel pump relay	17		Ignition ON	0-1 V briefly then 11-14 V		
Fuel pump relay	17		Engine cranking	0-1 V		
Heated oxygen sensor (HO2S)	20		Engine running	0,1-0,9 V fluctuating	0,2 V/1 sec.	 21
Idle speed control (ISC) actuator	23 (24)		Engine idling - engine hot		5 V/2 ms	Intermittent  27
Idle speed control (ISC) actuator	24 (23)		Engine idling - engine hot		5 V/2 ms	Intermittent  27
Idle speed control (ISC) actuator - closed throttle position (CTP) switch	3		Ignition ON - throttle closed	0 V		
Idle speed control (ISC) actuator - closed throttle position (CTP) switch	3		Ignition ON - throttle open	11-14 V		
Ignition coil	1		Ignition ON	11-14 V		
Ignition coil	1		Engine idling		5 V/2 ms	 33
Ignition timing relay - AT	6		Ignition ON - AT in P or N	11-14 V		
Ignition timing relay - AT	6		Ignition ON - AT not in P or N	0 V		
Injector	13		Ignition ON	11-14 V briefly then 0 V		
Injector	13		Engine idling - engine hot	0,6-1,6 ms	10 V/2 ms	 35
Intake air temperature (IAT) sensor	14		Ignition ON - air temp. 10 °C	3 V		
Throttle position (TP) sensor	7		Ignition ON - throttle closed	2,2 V		
Throttle position (TP) sensor	7		Ignition ON - throttle fully open	4,9 V		
Throttle position (TP) sensor	8		Ignition ON	5 V		
Throttle position (TP) sensor	18		Ignition ON - throttle closed	0 V		
Throttle position (TP) sensor	18		Ignition ON - throttle fully open	4,4 V		

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	input/output signal
	input signal
	output signal
	ECM switched earth
	ECM earth circuit