

Electronic tachometer with clock

SIMPLIFIED DIAGNOSIS

Disconnect connector block **A** from component under examination.

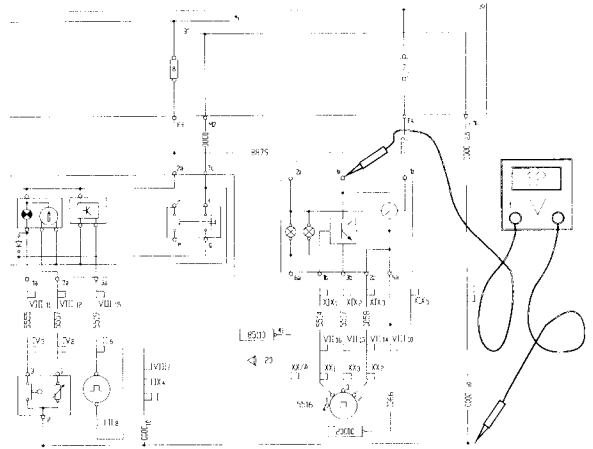
Set multimeter to VOLT:

Turn ignition switch key to position 15. Ensure 12 Volts are available by setting one multimeter prod to terminal 3 of connector block **A** and the other one to earth.

Set multimeter to OHM.

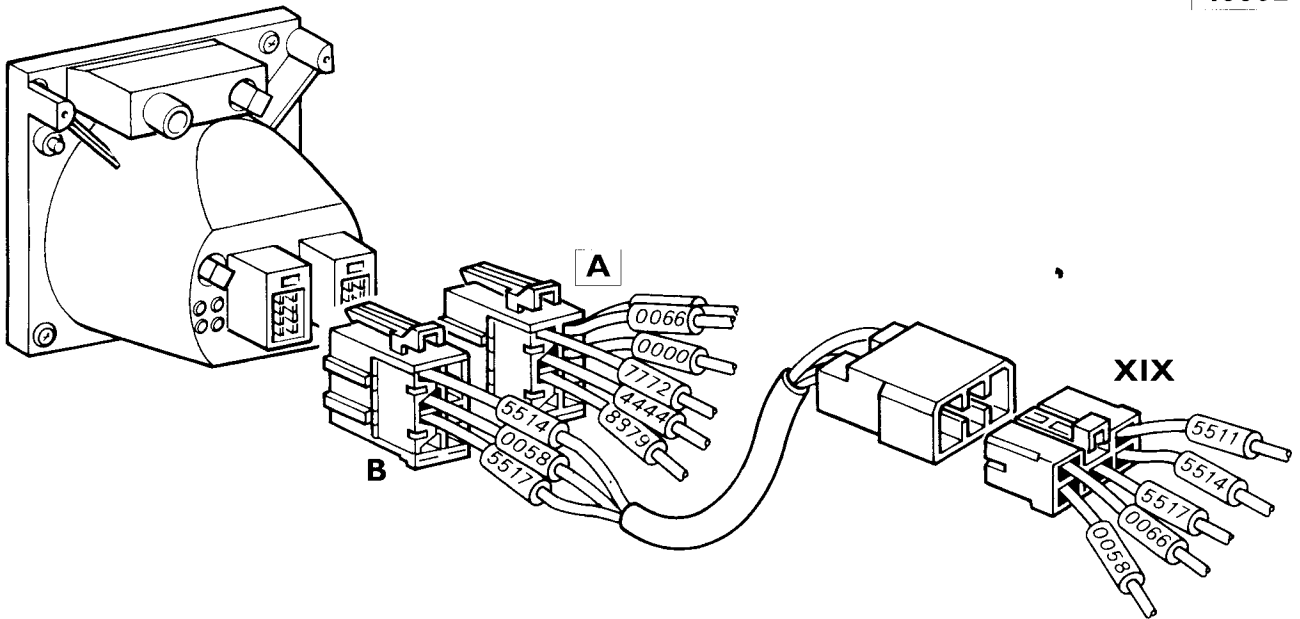
Turn the key to rest position and ensure the presence of 0 Ω by setting one multimeter prod to terminal 5 of connector **A** and the other one to earth.

If readings are other than specified, remedy as required by either repairing the circuit or replacing the component. Then repeat the test.



Print no. 603.42.961 Diagram no. 3

40002



LAYOUT WITH CONNECTIONS

Connector	Function	Cable colour
A	1 Supply (+15)	7772
	2 Positive for instrument lighting	4444
	3 Supply (+15)	8879
	4 Not used	-
	5 Insulated earth	0066
	6 Earth	0000
	7 Not used	-
	8 Not used	-
XIX	1 To electronic tachometer sender unit	5514
	2 To electronic tachometer sender unit	5517
	3 To electronic tachometer sender unit	0058
	4 Supply (+15)	5511
	5 Insulated earth	0066

Electronic tachograph/tachometer sender unit

SIMPLIFIED DIAGNOSIS

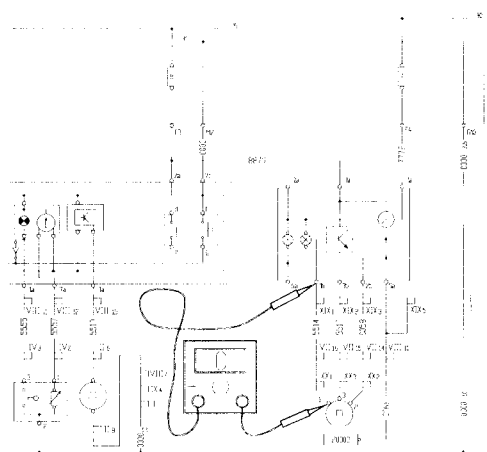
Disconnect connector **A** from component under examination.
Set multimeter to OHM.

Check for 0 Ω by setting one multimeter prod to terminal 1 of connector **A** and the other one to terminal 1 of tachometer connector B (page IV.10).

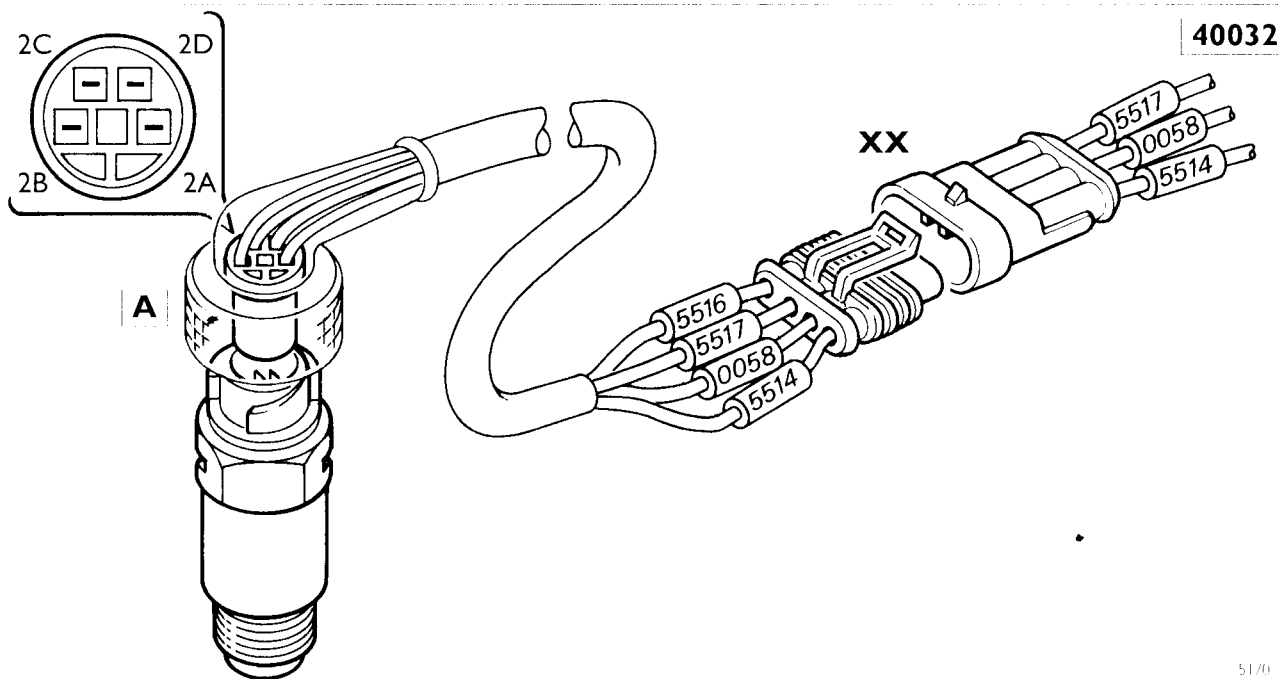
Check for 0 Ω by setting one multimeter prod to terminal 3 of connector **A** and other one to terminal 3 of tachometer connector B.

Check for 0 Ω by setting one multimeter prod to terminal 2 of connector **A**; and the other one to terminal 2 of tachometer connector B.

If readings are other than specified, remedy as required by either repairing the circuit or replacing the component. Then repeat the test.



Print no. 603.42.961 Diagram no. 3



LAYOUT WITH CONNECTIONS

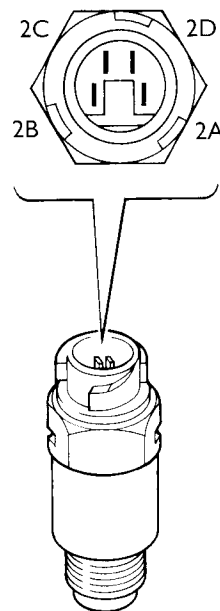
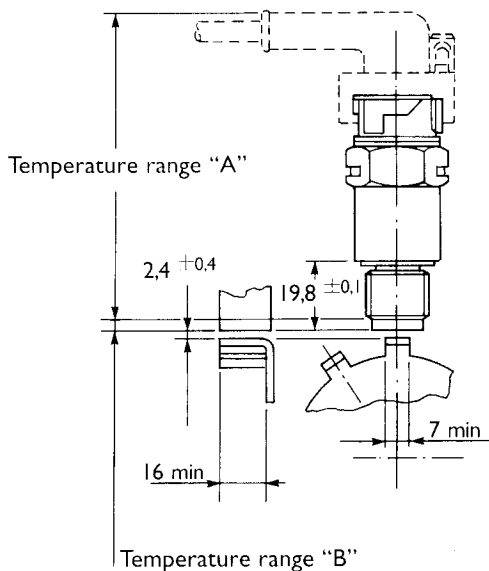
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Connector	Function	Cable colour	
A	2A	Positive for sender unit	5514
	2B	Negative for sender unit	0058
	2C	Speed signal	5517
	2D	Inverse speed signal	5516
XX	1	To tachometer/tachograph	5514
	2	To tachometer/tachograph	0058
	3	To tachometer/tachograph	5517
	4	Tachometer/tachograph sender unit	

Tachograph/tachometer sender unit

Terminal	Function	Symbol
2A	8V supply	+
2B	Earth	-
2C	Speed signal	A1
2D	Inverse speed signal	A2

40032



2897

2898

ELECTRICAL CONNECTIONS

Technical data

Overvoltage protection device	$\pm 150V (0,5 \text{ ms} - 0,2 \text{ Hz})$	Hermetic	0.5 bar in oil, 120°C, 100h
"VE" operating voltage	$6 \div 15V$	Signal	A2: inversion of A1
Current absorption	MAX 12 mA	Operating temperature "A"	$30 \div +135$
Connection type	no earth	Operating temperature "B"	$-30 \div +145$
Internal resistance	1,5 K Ω	Storage temperature "C"	$-40 \div +140$
Wave form	square	Storage temperature "D"	$-40 \div +150$
Initial signal	A1 $L \leq 50mV; H=VE-2V (13V \text{ max})$	Type of protection	DIN 40050 - IP 66
		Tightening torque	50 Nm max