## Testing and adjusting data

## A. Standard version

Engine	Ignition distributor Bosch no.	Adjusting value <sup>1</sup> ) of firing point without vacuum 3000/min	Test value ignition timing with/without vacuum idle   1500/min   3000/min with without		Vacuum adjustment after "retard" "advance" at at 3000/min		Installation value of ignition distributor at starting speed without vacuum	
116	0 237 404 003	30°²)	TDC ± 3°		30°	8-12°	8-12°	10° BTDC
117	0 237 404 002							8° BTDC
	0 237 404 006		TDC ± 3°	14-22°	30°	8-12°	8-12°	10° BTDC

<sup>1)</sup> If normally compressed engines are operating with fuel under 98 RON (min. 88 MON) adjust firing point in direction of "retard" and match to octane rating of fuel used. A reference value for this adjustment is: Set firing point back by 1-2° crank angle per 1 RON. Max. setback should not exceed 6° crank angle.
Attention!

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Taking firing point back is considered an "emergency measure". Reduced input and increased fuel consumption will result. In addition, the engine cannot be fully loaded. As soon as fuel with specified octane number is available, set engine to full advance.

## B. National version (a) (s) (USA)

Engine	Ignition distributor Bosch no.	Adjusting value of firing point	Test value ignition tim	ing	Vacuum adjustment after		Installation value of ignition
		with vacuum at idle	without vac	uum	"retard" at idle	"advance" at 3000/min	distributor at starting speed without vacuum
			1500/min	3500/min			
	977						
Identific	cation: Silver informa	tion plate on cross member	er in front of ra	diator			
117	0 237 405 001	TDC	9-16°	27-33°	6-10°	8-12°	7°BTDC
<i>-</i>			<u></u>	1			
(AUS) st	tarting 1978						
117	0 237 405 002	TDC	9–17°	26-34°	6-10°	8–12°	8° BTDC
(AUS) 1:	980						
AUS	1		1	·····		1	1
117	0 237 405 008	TDC	9-17°	26-34°	6-10°	8-12°	8° BTDC
	<u></u>			·		<u>'</u>	
	4070						
$\smile$	tarting 1976						
identific	cation: Information p	late on cross member in fr	ont of radiator	in Japanese la	inguage		

9-16°

27-33°

6-10°

8-12°

7° BTDC

0 237 405 001

TDC

117

advance.2) For ignition timing, pull off both vacuum lines for ignition adjustment. Switch off air conditioning system, automatic transmission in position "N" or "P".

	TDC	9-16°	27-33°	6-10°	8-12°	7° BTDC
176/77 ation: Blue informatio	on plate in Swedish lar	nguage on cross r	nember in fron	of radiator		
0 237 405 001	TDC	9–16°	27–33°	6-10°	8-12°	7° BTDC
978/79						
0 237 405 002	TDC	9-16°	27-33°	6-10°	8-12°	8° BTDC
980						
0 237 405 008	TDC	9–16°	27-33°	6-10°	8-12°	8° BTDC
978/79 ation: Federal black,	California yellow					
0 237 405 002	TDC	9-16°	27–33 °	6-10°	8-12°	7° BTDC
0 237 405 011	tion plate in English la $5^{\circ}$ BTDC $^{1}$ )	nguage on cross	member in fron	t of radiato	8–12°	5° BTDC
0 237 405 0122)			-di		phove 50 °C e	ngine tempera
	emperature of engine.	Vacuum retard a	agjustment is sw	ritched off a	150VC 30 °C C	ngmo tompora
	0 237 405 002 0 237 405 008 0 237 405 008 0 237 405 008 0 237 405 002 0 237 405 002 0 237 405 002	0 237 405 002 TDC  0 237 405 002 TDC  0 237 405 008 TDC  0 237 405 008 TDC  0 237 405 008 TDC  0 237 405 002 TDC	0 237 405 002 TDC 9–16°  0 237 405 008 TDC 9–16°  076/77  100 plate in English language on cross member in front of relation: 1976 black or green 1977 Federal black, California yellow, Federal high a  0 237 405 002 TDC 9–16°  0 237 405 002 TDC 9–16°	0 237 405 002 TDC 9–16° 27–33°  0 237 405 008 TDC 9–16° 27–33°  0 237 405 008 TDC 9–16° 27–33°  0 276/77  101	0 237 405 002 TDC 9–16° 27–33° 6–10°  0 237 405 008 TDC 9–16° 27–33° 6–10°  0 237 405 008 TDC 9–16° 27–33° 6–10°  0 237 405 008 TDC 9–16° 27–33° 6–10°  0 237 405 002 TDC 9–16° 27–33° 6–10°  0 237 405 002 TDC 9–16° 27–33° 6–10°  0 237 405 002 TDC 9–16° 27–33° 6–10°	0 237 405 002 TDC 9–16° 27–33° 6–10° 8–12°  0 237 405 008 TDC 9–16° 27–33° 6–10° 8–12°  0 237 405 008 TDC 9–16° 27–33° 6–10° 8–12°  0 237 405 002 TDC 9–16° 27–33° 6–10° 8–12°  0 237 405 002 TDC 9–16° 27–33° 6–10° 8–12°  0 237 405 002 TDC 9–16° 27–33° 6–10° 8–12°  0 237 405 002 TDC 9–16° 27–33° 6–10° 8–12°


Bosch, MOT 001.03

Digital tester

Revolution counter (speedometer), stroboscope

## Checking and adjusting

**Note:** On standard version, pull off both vacuum lines for ignition adjustment when adjusting firing point. After adjusting firing point, check specified firing point at idle with vacuum.

- 1 Check firing point with stroboscope or digital tester at specified speed with or without vacuum.
- 2 Loosen ignition distributor attachment, if applicable, and set adjusting value of firing point by turning ignition distributor.

Screw down ignition distributor and check firing point once again.

3 Check centrifugal and vacuum adjustment of ignition distributor. For this purpose, run through specified test values with or without vacuum adjustment.

