Closing angle (dwell angle)

Normal coil ignition (\$)

Closing angle (dwell angle) Testing and adjusting value at idle1)

Change between idle and 3000/min

39-42°

 $\text{max.} \pm 3^{\circ}$

Transistorized ignition system (J) (USA)

Identification: blue ignition coil, two pre-resistors and transistorized switchgear.

Closing angle (dwell angle) Testing and adjusting value at idle²)

Change between idle and 3000/min

30-40°

max. $\pm 3^{\circ}$

Firing point

| Ignition distributor Bosch no. | Adjusting value of firing point | Test value Ignition adjustment without vacuum | | | Vacuum adjustment after | | Installation value of ignition distributor at starting speed |
|--------------------------------------|---------------------------------|---|--------------|----------|----------------------------|---|--|
| | with vacuum at idle | 1500/min | 3000/min | 4500/min | "retard" at idle | "advance" at 4500/min (total) | without vacuum |
| S 1976 | | | | | - | | |
| 0 231 309 001 | TDC | 11-17° | 26-30° | 26-30° | 4-6° | 8-12° (34-42°) | 5° before TDC |
| J 1976 | · | | | | <u> </u> | | |
| 0 231 311 001 | 7° before TDC | 10-16° | 26-33° | 29-35° | - | _ | 7° before TDC |
| USA 1973/74 | | ······································ | . + | J | + | | |
| 0 231 310 002 | 4° after TDC | 13-17° | 31-35° | 37-41° | 9-13° | _ | 7° before TDC |
| USA 1975/76 | 4 | | | | | *************************************** | |
| 0 231 311 001 | 7º before TDC | 10-16° | 26-33° | 29-35° | _ | _ | 7° before TDC |

Special tools

Digital tester



001 589 54 21 00

 $^{^{1}}$) When installing new breaker points, adjust closing angle (dwell angle) to 42 \pm 1 $^{\circ}$.

 $^{^2}$) When installing new and when adjusting used breaker points, adjust closing angle (dwell angle) to 34 \pm 1 $^\circ$.

| Connecting cable | 1004-7H2 | 000 589 04 90 00 |
|-----------------------------|------------|------------------|
| Intermediate plug (adaptor) | 11004-7116 | 000 589 72 63 00 |
| Trigger | 11004-7125 | 000 589 71 63 00 |

Conventional tools

Revolution counter, stroboscope, closing angle (dwell angle) measuring instrument

Checking and adjusting closing angle (dwell angle)

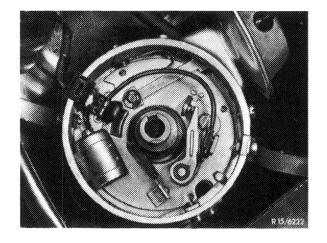
- 1 Measure closing angle (dwell angle) at idle speed.
- 2 Measure closing angle (dwell angle) change between idle speed and 3000/min, max. change \pm 3 $^{\circ}$.
- 3 Adjust closing angle (dwell angle), if required or replace breaker points (07.5–505).

With used breaker points, the closing angle (dwell angle) can be adjusted only with transistorized ignition.

Large dwell angle — small point spacing Small dwell angle — large point spacing



4 Measure firing point with stroboscope or digital tester at specified speed with or without vacuum.



5 Loosen ignition distributor and set adjusting value of firing point by turning ignition distributor.

Screw down ignition distributor and check firing point.

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

