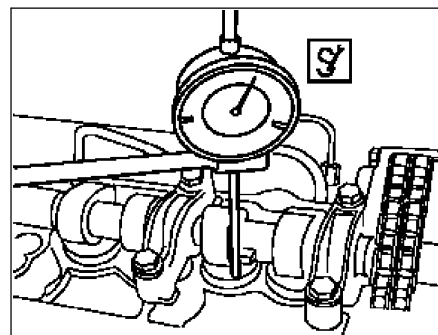


ENGINE 601, 602, 603 (except , 602.982)



P05.20-0338-01

| | Remove/install | | |
|-----|--|--|---|
| 1 | Remove cylinder head cover | | |
| 2 | Remove injection nozzles | Naturally aspirated engine Turbo engine | ra07016010230x ra07016026810x |
| 3.1 | Remove viscous fan clutch | Engine 601 in model 202 Engine 601, 602 in Model 124, 201 Engine 603 in MODEL 124, 126, 140 | AR20.40-P-5660HA AR20.40-P-5660HW |
| 4.1 | Remove fan | Engines with fan clutch solenoid | ra20006010330x |
| 5 | Attach dial gauge holder to intake valve of cylinder 1 and fit dial gauge onto valve tappet with a preload of 3 mm | | *363589022100 *001589532100 |
| | Inspect | | |
| 6 | Crank engine in direction of rotation until a valve lift of 2 mm is indicated | Engine must not be turned at the camshaft. Do not crank engine backwards during measurement, otherwise measurement errors occur. In this position the marking at the vibration damper see table (intake valve opens ATDC) must be aligned with the TDC pointer at the timing case cover. In case of a deviation of more than 4° CA, the timing chain has to be replaced. ↓ Replace timing chain Camshaft identification Camshaft code number | *BE05.20-P-1001-02C AR05.10-P-7601HX AH05.20-P-6992-03HB *BE05.20-P-1001-01C |

Camshaft code numbers

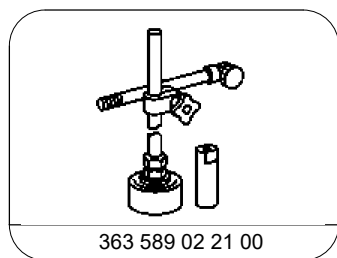
| Number | Designation | | Engine 601.911/ 912/ 921 up to 10/84 | Engine 601.911/ 912/921 from 11/84 to 10/88 | Engine 601.911/ 912/921 as of 11/88 | Engine 601.913 |
|--------------------|-----------------------|----|---|--|---|----------------|
| BE05.20-P-1001-01C | Camshaft code numbers | NM | 05 | 06 | 10 | 13 |

Camshaft code numbers

| Number | Designation | | Engine 602.911/ 912/961/962, 603 up to 10/88 | Engine 602.911/ 912/961/962, 603 as of 11/88 |
|--------------------|-----------------------|----|--|--|
| BE05.20-P-1001-01C | Camshaft code numbers | NM | 07 | 11 |

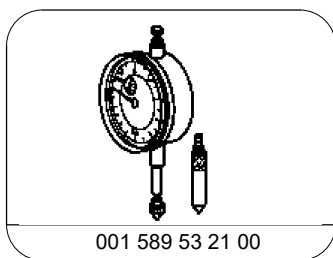
Inspection data of timing

| Number | Designation | Engine 601 except 601.913, 602 except 602.982, 603 | Engine 601.913 |
|--------------------|---|---|-------------------|
| BE05.20-P-1001-02C | Timing of intake valve/ exhaust valve at 2 mm valve lift and used timing chain | Inlet valve opens after TDC °CA | 12 |
| | | Inlet valve closes after BDC °CA | 17 |
| | | Exhaust valve opens before BDC °CA | 21 |
| | | Exhaust valve Closes before TDC °CA | 20 |



363 589 02 21 00

Dial gage holder



001 589 53 21 00

Dial gage