

No.	Designation	Each	Observe during:		Special Instr.
			Removal	Installation	
28	Circlip	1			
29	Thrust ring	1			
30	Restoring spring	2		Use only spring fitting distributor	
31	Distributor cam	1			
32	Circlip	2			
33	Flyweight	2		Use only parts fitting distributor	2.4-2/2
34	Washer	2			
35	Distributor shaft	1			
36	Releasing contacts	1			

DISASSEMBLY AND ASSEMBLY OF IGNITION DISTRIBUTOR

Disassembly

- 1 - Remove contact breakers.
- 2 - Remove vacuum governor.
- 3 - Remove releasing contacts.
- 4 - Mark installation position of fly weights.
- 5 - Mark installation position of driver claw in relation to distributor shaft and distributor housing.



- 6 - Knock out pin for driver claw with a drift.
- 7 - Remove driver claw, watch out for location and number of washers.

Checkup

- 1 - If the radial play between the distributor shaft and the distributor housing is too large, replace distributor shaft and correct axial play by means of compensating washers. If the bushings of the distributor housing show too much wear, replace complete distributor.
- 2 - If the contact breaker plate shows too much tipping play, replace contact breaker plate. If the wear is shown on the distributor housing itself, replace distributor.

Assembly

The following points must be observed:

- 1 - Lubricate distributor shaft.
- 2 - Watch out for correct position and number of steel and fabric washers on distributor shaft. Compensate axial play.
- 3 - Slide driver claw on distributor shaft observing its installation position.
- 4 - Attach fly weights acc. to installation marks.

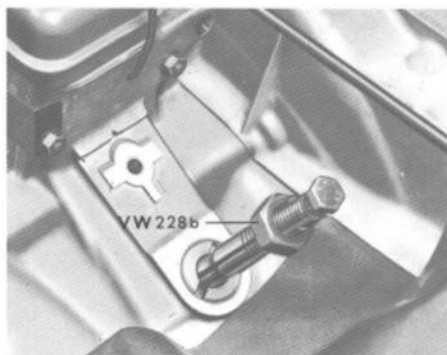
REMOVAL AND INSTALLATION OF IGNITION DISTRIBUTOR DRIVE SHAFT

Removal

- 1 - Remove spacing spring from drive shaft.
- 2 - Pull ignition distributor drive shaft out in upward direction using puller VW 228b and turning to the left.
- 3 - Remove washer from under ignition distributor drive shaft.

(Caution! Do not drop!)

On the installed engine, the washer can be removed with a magnet. On the removed engine, turn crankcase by approx. 180° so that the washer will drop out.



Installation

The following points must be observed:

- 1 - Check helical teeth of ignition distributor drive shaft for wear. If wear of helical teeth is excessive, be sure to check teeth of ignition distributor drive gear.

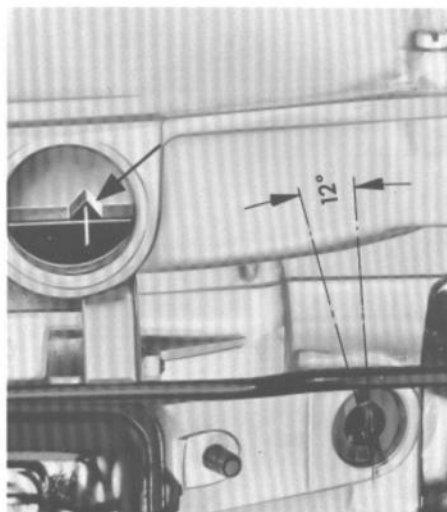
- 2 - Check washers under ignition distributor drive shaft for wear; use new washers, if required.

- 3 - Adjust cylinder 1 to firing point.

At that moment, the exhaust valve on cylinder 3 will close and the inlet valve will begin to open.

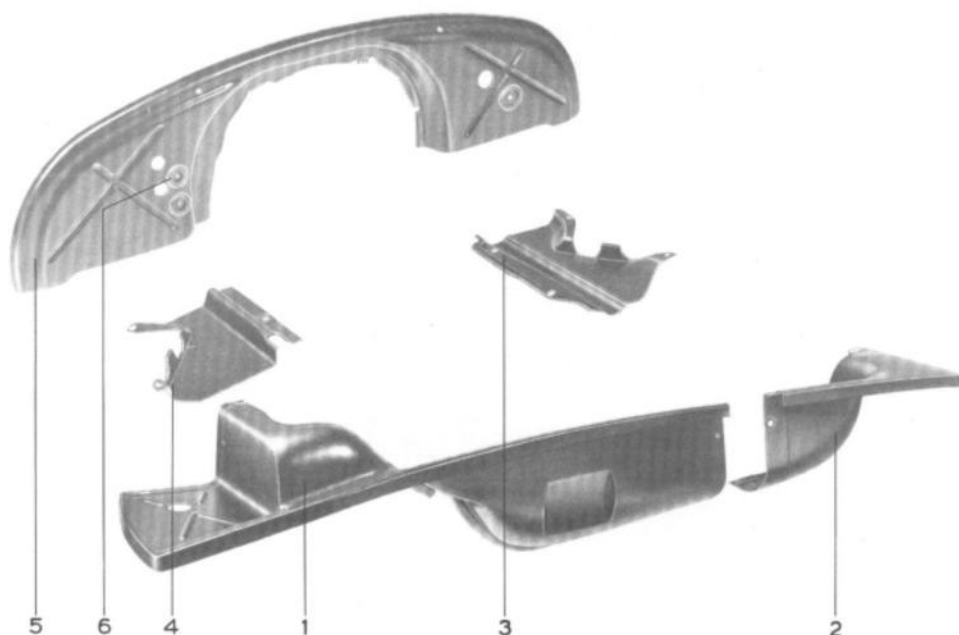
- 4 - Install ignition distributor drive shaft.

The offset slot in the top end of the distributor drive shaft should be at an angle of approx 12° in relation to the longitudinal axis of the engine; the smaller sector faces towards vehicle outside.

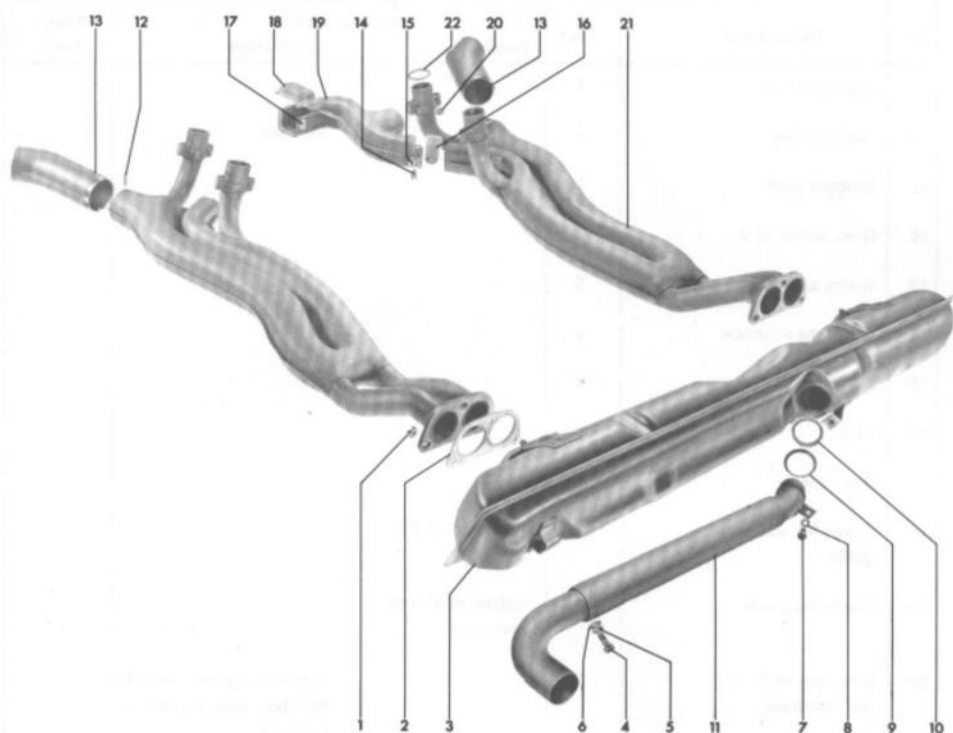


- 5 - Install spacing spring.

When installing the distributor shaft in 1.8 liter engines, beginning with 1974 models, use the $7,5^{\circ}$ mark instead of the indicated TDC mark.



No.	Designation	Each	Observe during:		Special Instr.
			Removal	Installation	
1	Engine cover plate front right	1			
2	Engine cover plate front left	1			
3	Warm air guide bottom left	1			
4	Warm air guide bottom right	1			
5	Engine cover plate rear	1			
6	Bushing	3			



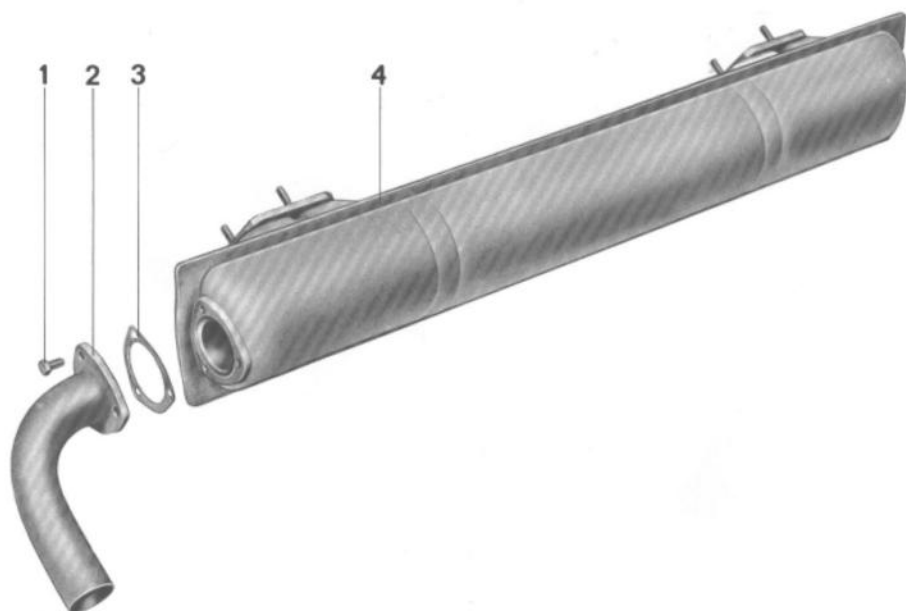
No.	Designation	Each	Observe during:		Spec. Instr.
			Removal	Installation	
1	Hex. nut M 8, self-locking	6	Exchange if heavily rusted	Replace	
2	Seal	2			
3	Exhaust muffler	1			
4	Hex. screw M 6	1			
5	Spring washer	1			
6	Washer	1			
7	Hex. screw M 6	1			
8	Washer	1			

No.	Designation	Each	Observe during:		Spec. Instr.
			Removal	Installation	
9	Sealing cone	1			
10	Sealing ring	1		Replace	
11	Damper pipe	1			
12	Hex. screw M 6	2			
13	Warm air elbow	2			
14	Cheesehead screw	4			
15	Washer	4			
16	Clip	2			
17	Hex. screw	4			
18	Cover for warm air guide	2	Different at left and right		
19	Warm air guide	2	Different at left and right		
20	Hex. nut M 8 self-securing	8		Tighten slightly, install muffler, then tighten as required.	
21	Heat exchanger	2	Different at left and right, check for damage, refinish sealing surfaces, if required		
22	Sealing ring	4		Replace	

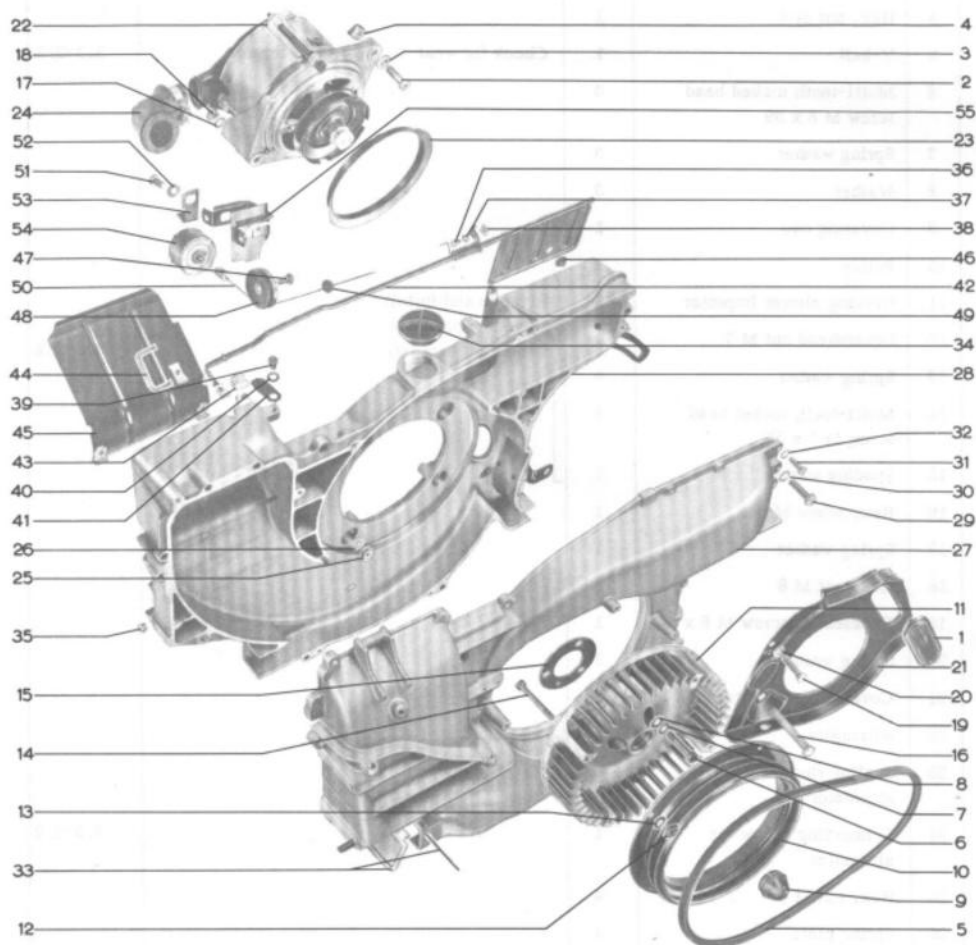


No.	Designation	Each	Observe during:		Spec. Instr.
			Removal	Installation	
1	Connection pipe	2			
2	Hose clip	5			
3	Heating air hose	2			
4	Hex. nut M 6	4			
5	Spring ring	4			
6	Washer	4			
7	Holding plate	1			
8	Heating air blower	1			

Effective with 1974 Models



Nr.	Description	Qty	Note when		References
			removing	installing	
1	Bolt	3			
2	Tail pipe	1			
3	Gasket	1		Replace	
4	Muffler	1			



No.	Designation	Each	Observe during:		Spec. Instr.
			Removal	Installation	
1	Cover for cover plate	1			
2	Multi-tooth socket head screw M 8	1			
3	Spring washer	1			
4	Hex. nut M 8	1			
5	V-belt	1	Check for wear	Adjust tension	3.3-2/1
6	Multi-tooth socket head screw M 8 x 39	3			
7	Spring washer	3			
8	Washer	3			
9	Covering cap	1			
10	Pulley	1			
11	Cooling blower impeller	1	Remove and install together (parts are balanced together)		
12	Squarehead nut M 7	4			3.3-2/2
13	Spring washer	4			
14	Multi-tooth socket head screw M 7 x 52	4			
15	Spacing washer	1			
16	Hex. screw M 8	1			
17	Spring washer	1			
18	Hex. nut M 8	1			
19	Cheesehead screw M 6 x 30	1			
20	Spring washer	1			
21	Cover plate for altern.	1			
22	Alternator	1			
23	Sealing ring for alternator	1			
24	Connecting elbow for alternator	1			3.3-2/2
25	Hex. nut M 8	4			
26	Spring plate	4			
27	Cooling blower housing half, rear	1	Remove and install together		
28	Cooling blower housing half, front	1			3.3-2/2
29	Hex. screw M 8 x 30	3			