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SERVICE DATA

JUDSON MODEL VW SUPERCHARGER

VERY IMPORTANT: In reassembling the supercharger, make sure that the end covers are assembled to the main housing in exactly the same relationship as when removed. Make a note of their position on the housing before removing..

1. Remove the supercharger from the engine and place on a clean bench. Remove the carburettor from the supercharger.
2. Remove the six bolts holding on the rear cover.
3. Use two 5/16" USS bolts and screw into the tapped holes in the rear cover. These act as jack screws to remove the rear cover and bearing from the shaft. Jack screws should be tightened slowly and the same amount on both sides of the cover so that the bearing and cover will be pulled off the shaft straight.
4. After the rear cover has been removed the vanes can be removed from the rotor.
IMPORTANT: Before removing the vanes take special notice of the slots in the vanes. Vanes must be replaced in the same manner or supercharger will not function. Slots in vanes face to the center or toward the shaft.
5. To remove the rotor assembly, remove the six bolts holding on the front cover and the front cover can be removed from the housing with the complete rotor assembly.
6. To remove the front cover from the shaft: remove the nut from the shaft and then the pulley. Remove idler bracket from front cover. Rotor shaft can then be forced out of the front bearing using an arbor press
7. To remove the bearing and seals from the front cover; remove the snap ring, drive out the bearing from the inside, drive out seals in same manner. Take notice of the relative position of the two seals so that they can be replaced correctly, this is important.

8. In replacing the end cover on the shaft, seals should be carefully worked over the spacer on the shaft to prevent damage.

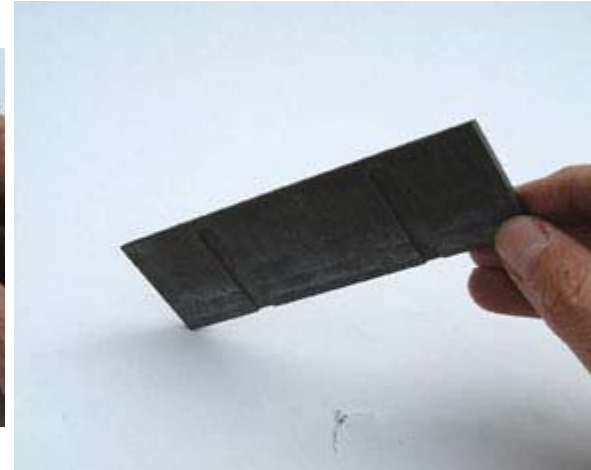
9. To remove the bearing from the rear cover: push out cap from inside of housing, remove the snap ring from the housing, push out bearing from inside of cover. In reassembling, the cover cap is forced into the groove by striking in the center. Edge of cover should be coated with Permatex or sealer prior to replacement.



2. Use two 5/16th USS bolts to remove rear cover The main bearing fits snugly into the front housing



The rotor has been dynamically balanced for smooth running



Vanes are made from phenol impregnated linen



Photo courtesy of Julian Hunt

The following parts list dates from the late fifties, unfortunately so do the prices.

PARTS LIST

JUDSON MODEL VW SUPERCHARGER

Mention model and specification number on name plate in ordering parts

Part No	Description	Price	Part No	Description	Price
1501	Housing.....	42.00	1520	Main Gasket.....	.20
1504	Rotor Assembly.....	36.00	1516	Bolt Gasket (2)..... each	.10
1505	Front Cover.....	8.00	1517	End Plug.....	.40
1502	Rear Cover.....	8.00	1511	Shaft Spacer Tube.....	1.00
1503	Supercharger Pulley.....	7.80	1515	Support Bracket.....	1.00
1509	Crankshaft Pulley.....	10.00	1522	Throttle Rod.....	2.00
1507	Air Cleaner Assembly.....	8.40	1518	Throttle Support.....	.60

1508	Generator Flange.....	3.60	1512	Carburetor Control Arm....	.60
1550	Bearings (2)..... each	1.80	1532	Oil Line.....	1.00
1513	Seal (2) front..... each	.50	1510	Shaft Nut.....	.60
1501	Seal, rear.....	.50	1545	Key.....	.10
1514	Replacement Support.....	1.00	1523	Mounting Stud (2).... each	.20
1556	Snap Ring.....	.20	1524	Carburetor Stud (2).. each	.20
1551	Vane (4)..... set	10.00	1526	Carburetor Jet.....	.60
1521	Drive Belts (2)..... pair	3.60	1527	Fuel Pump Spring.....	.60
1575	Lubricator.....	10.00	1528	Choke Wire.....	.60

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