MID AMERICA MOTORWORKS™

INSTRUCTION SHEET

Part Number
309-686

Application: 1972- 1974 Super Beetle

Part Includes
1 - Component

Bushing Installation

SKILL LEVEL 2

Tools Needed

STEP 1.
Remove the idler arm using a 19mm socket. Mark the arm as to which side is up so you dont forget. Hold the hex drive end of the bolt with a 14mm Allen Wrench and remove the nut. If you don't have a 14mm Allen, just hold the head of the bolt in a vice while removing the nut. Remove the arm.

STEP 2.
Grind off the thin metal lip of the old steel lined bushing as shown.

STEP 3.
Mount the idler assembly on a press. You will need a sturdy piece of tubing with an I.D. of about 1.2" and an O.D. of no larger than 1.5" TO back up the assembly on a press. The pressing tool should be about 1.1" to avoid sticking the idler's inner diameter. You could also use a 21mm deep socket for this pressing, if it is the right diameter. Use caution as sockets are not designed to function as a press tool. Press out the old VW bushing as shown.

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Description (cont.)

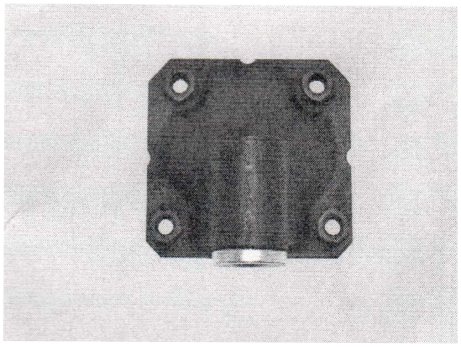
STEP 4.

Clean the holder well and apply some grease. Press the new bushing in from the bottom to the top as shown. Test fit the shaft of the bolt inside the brass bushing. Unlike most VW parts, these bolts vary quite widely in diameter, have some high spots, and are often not the same demension from end to end. You may need to clean up the rusted shaft on a belt sander to achieve a proper fit. If you are having some binding problems during rotation, mark the bolt with a black marker to see the high spots. Grease the shaft before final installation.

NOTE:

It's ok to have a little up and down movement of the bolt in the bushing. If you feel the up/ down movement is excessive, you can use the VW rocker shaft shim under the head of the bolt to take up some clearance. Install the idler arm and torque the nut to 29ft. lb. Check for free roation.

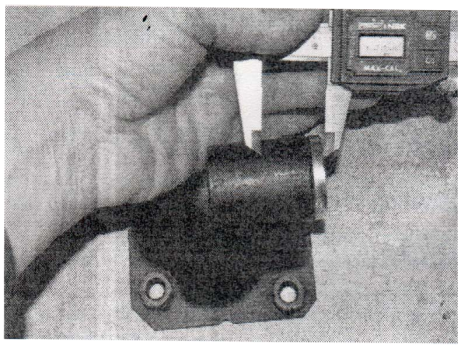
Completed assembly below, ready for an arm.

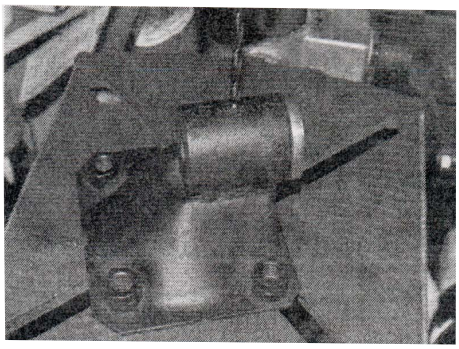


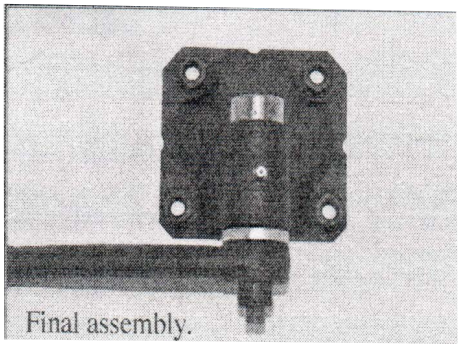
Description (cont.)

USING THE OPTIONAL ZERK FITTING.
(Will require a drill motor or drill press 5mm or #9 drillbit.)

Your new Top Line brass bushing is supplied with an internal "grease groove" for use with a Zerk fitting if desired. Measure up from the flange of the bushing 30mm (about 1.18") as shown. Drill a 5mm (or use a #9 drill) hle throught the aluminum housing to intersect the grease groove. Tap the hole with an 6mm x 1.0 pitch tap. Deburr the holes and install the Zerk fitting. Grease the shaft and bushing before re-assembly of the shaft and arm. Torque th







Final assembly.