

Mechanical Diode®

Part No. GM-MD-3

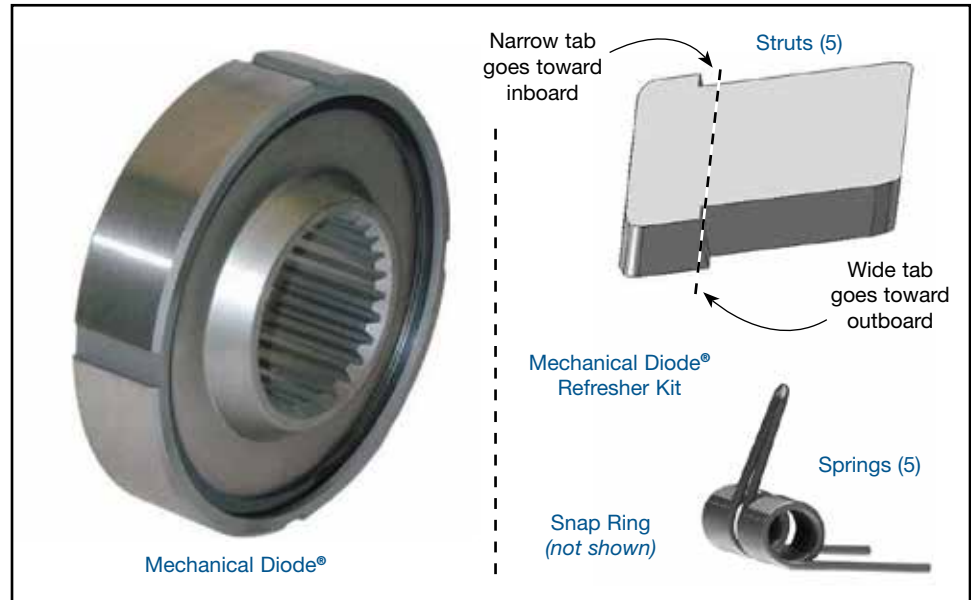
NOTE: Use of this mechanical diode requires a 3.25" bore stator like the Opel or Sonnax **GM-ST-082** or **GM-ST-086**.

Also Available

Mechanical Diode® Refresher Kit GM-MD-RK

NOTE: This refresher kit can be used to rebuild Sonnax mechanical diodes **GM-MD-3**, **CH-MD-1** and **GMFD-MD-1**.

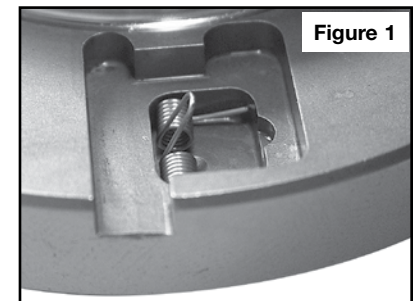
HP Miscellaneous



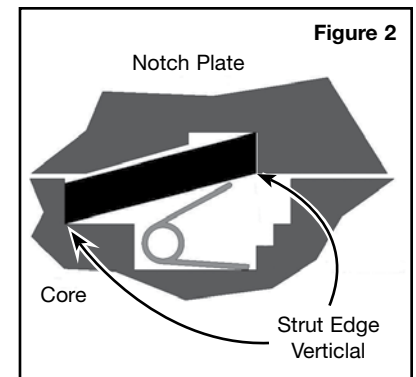
1. Place mechanical diode core on work area with the spring and strut cavities facing up.

NOTE: Proper positioning of the spring and strut are critical for correctly assembling the unit.

2. The spring and strut cavities have two levels (**Figure 1**).
3. Orient Sonnax spring as shown (**main photo**). When spring is correctly installed it will look like (**Figure 1**).
4. The strut is basically square-shaped with two tabs (**main photo**). Note the two tabs are different widths. Installing the narrow and wide tabs in the matching narrow and wide cavity in the core, positions the strut for correct operation. The narrow tab is always positioned inboard on the hub and the wider tab is always positioned outboard on the hub.
5. The load-bearing edges of the strut are angled and should appear (**Figure 2**) when installed.



6. Place the notch plate with the spiral ring groove (ring groove facing down) onto the core. You will begin to feel spring tension as the plate comes into contact with the struts. Continue pushing the plate down until the springs are fully compressed. Hold the two parts firmly together and turn the assembly over to expose the spiral ring groove. If the ring groove is not visible, the springs and struts are not installed correctly.



7. Continue holding the parts together and install Sonnax spiral snap ring.