MANIFOLD DRILL TEMPLATE FOR DODGE 4.7L



Includes:

- 1 Base Plate
- 2 Drill Depth Gauge
- 3 Alignment Bolts (3)
- 4 Lock Screw (2)
- 5 8mm Tap Guide
- 6 Drill Bushing 1/8" 7 - Drill Bushing - 3/16"
- 8 Drill Bushing 17/64"
- 9 Extractor
- 10 17/64" Drill Bit
- 11 3/16" Drill Bit (2)
- 12 1/8" Drill Bit (4)

1 2 5 6 7 8 9 10 11 12

- 1. Make sure the surface is clean so the plate mounts correctly. Broken bolts need to be flush.
- 2. Screw the lock screw to the plate for the hole you will be drilling.
- Mount the plate according to the plate markings using the alignment bolts tightening evenly to ensure the plate centers up.
 Insert the 1/8" drill bushing. Twist clockwise to lock into the locking screw.
- Install the 1/8" drill bit in a drill. Use the drill depth gauge (Fig A) to ensure the drill bit isn't too long which may result in puncturing a water jacket. The same gauge can be used for all bits used in the process. Run the drill at 500 to 700 RPM (Fig B).
- 6. Keep the drill bit cool by applying transmission fluid or cutting oil on the bit # or in the hole before and in between drilling. Do not use penetrating oil.
- 7. Drill for 5 to 10 seconds and pull out. Reapply lubricant to keep bit cool. Repeat until you get all the way through the bolt.
- 8. Use an air gun to clear the hole of shavings.
- 9. Switch to 3/16" drill bit & bushing and drill approximately 1" deep. This will ensure good contact with extractor.
- 10. Remove the drill bushing and tap the extractor with a hammer and remove the broken bolt (Fig C).
- If you are unable to remove the broken bolt with the extractor, put the 3/16" drill bushing back in and drill all the way through the bolt with the 3/16" drill bit (Fig D). Then repeat the same process using the 17/64" drill bit and bushing.
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- 12. Insert the tap guide and use a M8x1.25 Tap to remove the remaining steel from the threads. Screw the tap in and out again until job is complete (Fig E). Use a tap socket to make the job easier.







Fig B







Fig D



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