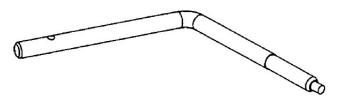
Oilhead TDC Locating Mandrel

The BMW OEM TDC Locating Mandrel (R11S, RT and GS) at the time of this writing cost \$32.68 USD. A substitute can easily be fabricated for approximately \$3.00 USD with a Square-U bolt available from almost any hardware store. The bolt used in this document came from *Ace Hardware* and cost \$2.49 USD. The shank of the bolt that was used measured 0.326" (8.28mm). Check the diameter of the shank as they do vary slightly.

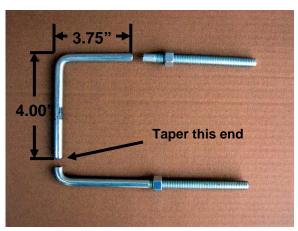
National Manufacturing Co. www.natman.com

Catalog # 2192 Item # N222-406 Square U Bolt, Zinc plated 3/8" x 4" x 7"



90 88 6 112 650

Using a hacksaw cut the bolt in two locations as shown below. Clean up the cut ends with a file and taper the end shown to ease inserting into the flywheel. I recommend attaching a bright colored ribbon or cord to remind you to remove the tool and unlock the flywheel.









by **Dana E. Hager**

Send comments/corrections to

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The author(s) have described how they made the parts/ tooling. The construction was based on their experience, knowledge, skills and available materials and tools. Our experience, knowledge and skills maybe and likely are different from any potential users of the information here. Users may not have the material and tools we had available. What was, or is, obvious to us and so not described, may not be apparent to potential users at all. Therefore, they/ we assume no liability for any damage or injury caused by any errors or omissions in this description. Please consult the OEM maintenance manual before doing any work. Use at your own risk.

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