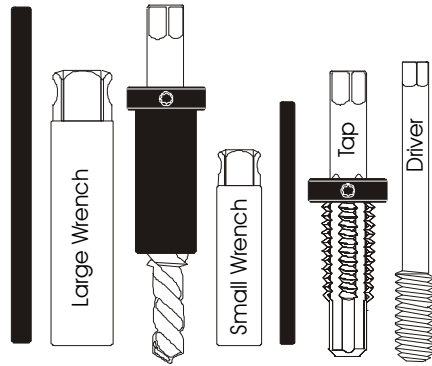


TIME-SERT®

GLOW PLUG REPAIR KIT



Video instructions found here:
<http://www.timesert.com/html/glowplug.html>

KIT CONTENTS

1. Large Wrench
2. Core Drill
3. Small Wrench
4. Step Tap
5. Driver tool
6. (5) Inserts

Use WD40 for drilling & tapping

-WARNING-
 Cutting tools may shatter if broken. The wearing of safety glasses is required in the vicinity of their use.

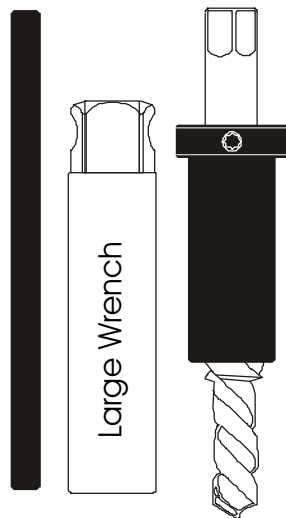
(Preparing hole)

Before we begin, tape the straw provided or a piece of hose long enough to reach the bottom of hole, to a shop vac for chip removable.

Using a small quarter size piece of tissue, roll up into a ball and drop down glow plug hole and gently push down using small wrench handle.

On deep holes if the straw is not long enough use a long socket extension or tape the handle to something to extend it's reach.

This will help prevent chips from going into the chamber. The tissue will later be vacuumed out after drilling and repeated for tapping.



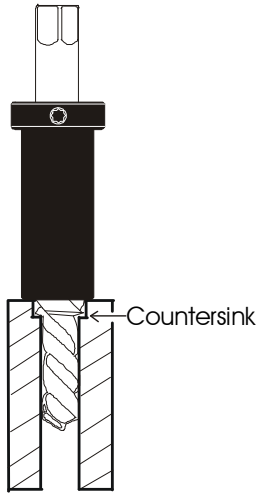
1. Place the core drill into the large wrench and use WD40 for drilling. Drill until the stop collar on the core drill bottoms out in the hole.

For Deep holes you may tighten the setscrew on the wrench square and lengthen the tooling by using a 1/2" or 13mm socket

Vacuum chips as needed.
 You will have to vacuum the chips away from the top of the hole so that the collar on the drill contacts the head.

Place more tissue in hole if removed by vacuuming. The tissue keeps chips from entering the cylinder.

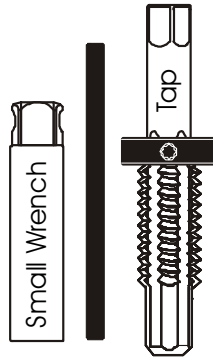
Turn page over to continue



**Continued from step 1
Countersink close-up:**

After using the core drill, check to see that you have created the countersink for the flange of the insert.

You must remove the drill to see the countersink!

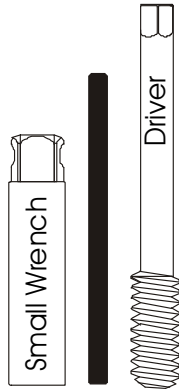


2. Place the tap into the small wrench and use WD40 for tapping. Tap until the stop collar on the tap bottoms out in the hole.

For Deep holes you may tighten the setscrew on the wrench square and lengthen the tooling by using a 3/8" or 11mm socket

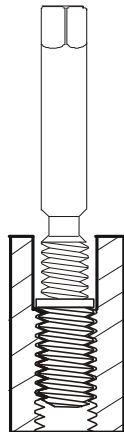
Vacuum chips as needed.

Use brake cleaner to clean out oil residue after tapping.



3. Place the install driver into the small wrench. Oil the threads of the install driver.

For Deep holes you may tighten the setscrew on the wrench square and lengthen the tooling by using a 3/8" or 11mm socket.



4. Screw an insert onto the driver and into the prepared hole. While screwing the insert into the hole the driver will tighten up, continue screwing the driver through the insert a few more turns until it loosens up.

The driver must pass slightly through the insert to expand the last few threads of the insert locking it in place.

**Back driver tool out of insert.
Repair Complete.**

Use correct torque specs when installing new glow plug.