6.0L—SERVICE REMANUFACTURED ENGINE, CYLINDER BLOCK, AND CYLINDER HEAD IDENTIFICATION

TSB 07-10-4

FORD:
2003-2005 Excursion
2003-2007 F-Super Duty
2004-2007 E-350, E-450, F-650, F-750

This article supersedes TSB **06-24-4** to update the parts.

ISSUE

Some 2003-2007 vehicles equipped with a 6.0L engine may require the cylinder head to be replaced. Design changes can affect interchangeability between model years and service of 2003-2007 6.0L engines.

ACTION

Clarify the design changes and provide a detailed interchangeability guide between the 2003-2007 model years. Identify correct part combinations required for proper engine function.

CYLINDER HEAD IDENTIFICATION

A pre-commonized engine has an engine serial number from 6,000,000 to 6,723,721 (Indianapolis built engines have 7 digits beginning with 6) or 1 to 299,092 (Huntsville engines). The cylinder head, head gasket, head dowels, injector hold down clamps, rocker arm carrier, and rocker arm carrier mounting bolts differ between the “pre-commonized” engine and the commonized engine.

The commonized engine head dowels are 20 mm straight dowels. Previously released service kits allowed the use of a commonized head on a pre-commonized engine. If a pre-commonized engine has a commonized head installed, the head dowels will be 18 mm to 20 mm step dowels. You must take additional steps to determine the correct head kit to use for repair.

NOTE
TO PREVENT ENGINE DAMAGE, IF SERVICING BOTH ENGINE BANKS ON A PRE-COMMONIZED ENGINE, DO NOT MIX CYLINDER HEAD PARTS BETWEEN LEFT AND RIGHT BANKS. IF PREVIOUSLY REPAIRED, THE ENGINE MAY HAVE TWO DIFFERENT CYLINDER HEADS.

Check the injector hold down bolts and rocker arm carrier mounting bolts. If the injector hold down bolts are T40 and the rocker arm carrier mounting bolts are M8, repair the engine using the remanufactured pre-commonized head kit. Replace the step dowels with 18 mm straight dowels.

NOTE
THE VERSION OF COMMONIZED HEAD INSTALLED ON THIS ENGINE MATES WITH THE PRE-COMMONIZED INJECTOR HOLD DOWN CLAMPS AND ROCKER ARM CARRIER.

Once the repair is complete, the engine will be returned to its original configuration. If the injector hold down bolts are T45 and the rocker arm carrier mounting bolts are M10, repair the engine using the commonized head kit.

NOTE
THIS ENGINE HAS BEEN CONVERTED TO A FULL COMMONIZED HEAD CONFIGURATION, INCLUDING COMMONIZED ROCKER ARM CARRIER AND REVISED INJECTOR HOLD DOWN CLAMPS. THE COMMONIZED ROCKER ARM CARRIER AND REVISED INJECTOR HOLD DOWN CLAMPS MUST NOT BE USED WITH A PRE-COMMONIZED HEAD.

Figures 1, 2, and 3 will assist with determining the proper cylinder head kit.

PART NUMBER	PART NAME
6C3Z-6049-A	Commonized Head (20 mm straight dowels) Kit
3C3Z-6049-CARM	Remanufactured Pre-Commonized Head (18 mm straight dowels) Kit

NOTE: The information in Technical Service Bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by “do-it-yourselfers”. Do not assume that a condition described affects your car or truck. Contact a Ford, Lincoln, or Mercury dealership to determine whether the Bulletin applies to your vehicle. Warranty Policy and Extended Service Plan documentation determine Warranty and/or Extended Service Plan coverage unless stated otherwise in the TSB article.The information in this Technical Service Bulletin (TSB) was current at the time of printing. Ford Motor Company reserves the right to supercede this information with updates.The most recent information is available through Ford Motor Company’s on-line technical resources.

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WARRANTY STATUS: Eligible Under Provisions Of New Vehicle Limited Warranty Coverage
IMPORTANT: Warranty coverage limits/policies are not altered by a TSB. Warranty coverage limits are determined by the identified causal part.

DEALER CODING

BASIC PART NO.	CONDITION CODE
6049	38

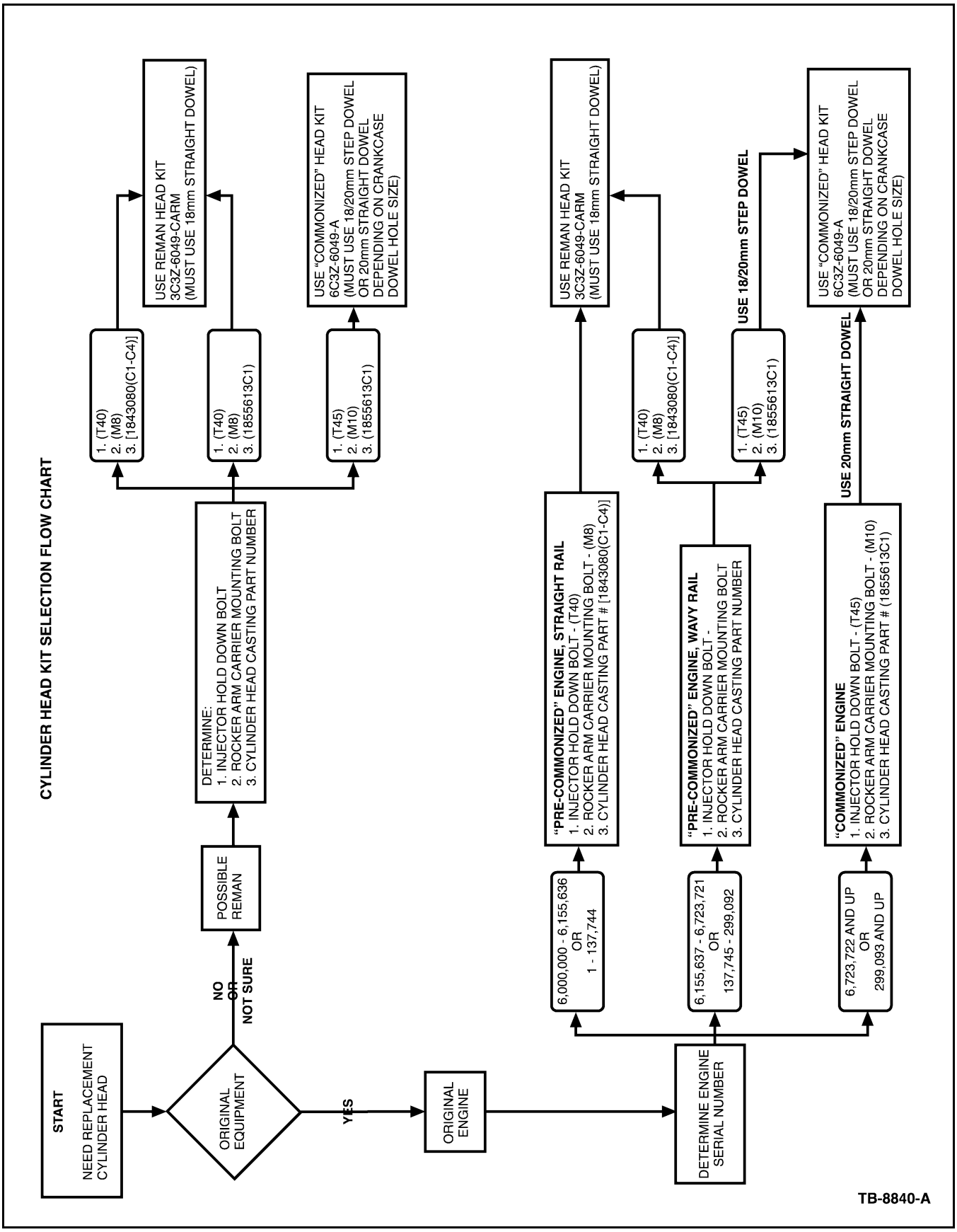


Figure 1 - Article 07-10-4

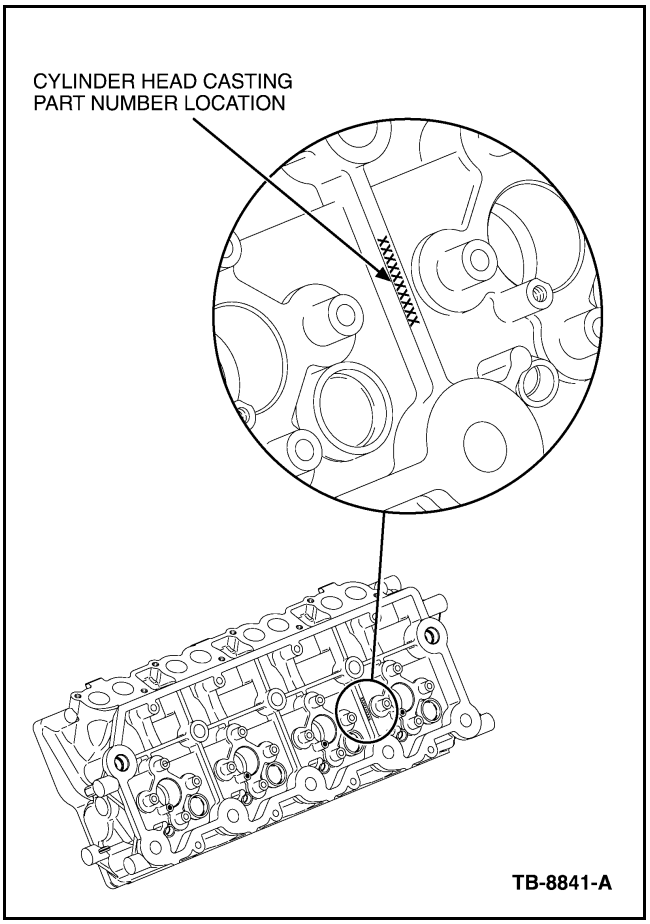


Figure 2 - Article 07-10-4

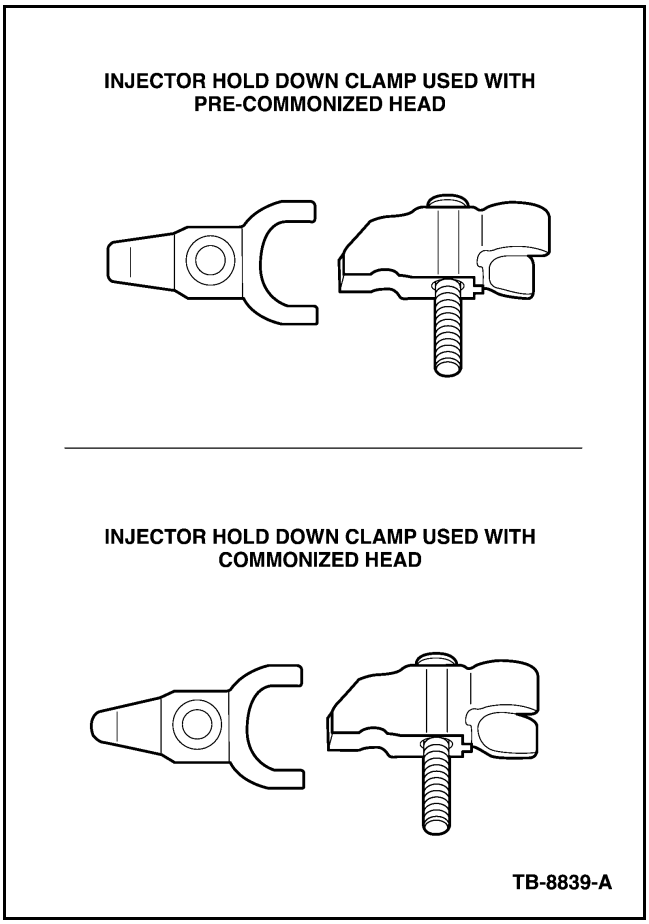


Figure 3 - Article 07-10-4