

## TECHNICAL BULLETIN

**TB NO.1016**  
**REV. 1**

**SUBJECT: Superior Vee Engine - 12 & 16 Cylinders  
Main Bearing Cap Fastening Modification**

**PROBLEM:** Loss of torque on main bearing caps attributed  
to main bearing cap bolt-thread stretch.

The present design of the vee engine bedplate and main bearing cap assembly incorporates the use of (4) threaded bolts to secure the main caps to the bedplate. There have been many problems with this particular design attributed to bolt stretch resulting in the loss of the required torque. When you loose torque you also loose bearing crush and bearing clearance which will ultimately cause the crankshaft to break in most cases at the center main bearing.

To eliminate this chronic problem **EnDyn** recommends a modification to the bedplate and main cap assembly utilizing a through bolt design to more adequately secure the caps to the bedplate and to hold the recommended torque. The recommended modification, material and procedures are contained in **EnDyn** drawing number P-SK-7261 attached.

It is recommended that the bedplate and main cap assembly be transported to **EnDyn** machining facility in Alice, Texas, for the complete modification. Please call our Technical Service Department to set up your **PowerPart**<sup>®</sup> "through bolt" appointment today.

1-14-97

**TECHNICAL SERVICE DEPT.**  
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**NOTES:**

- 1) DURING HAND TIGHT PRE-ASSEMBLY, ADJUST BOTTOM JAM NUT (ITEM #7) SO TO ALLOW FOR PROPER INSTALLATION OF THE COTTER PIN IN CASTLE NUT.
- 2) APPLY LUBRIPLATE TO THREADS OF ITEMS #2 & #6 BEFORE ASSEMBLY & TORQUE NUTS TO 450 ft. lbs.
- 3) REPLACE ELASTIC STOP NUTS AFTER RE-TORQUING MORE THAN TWICE.

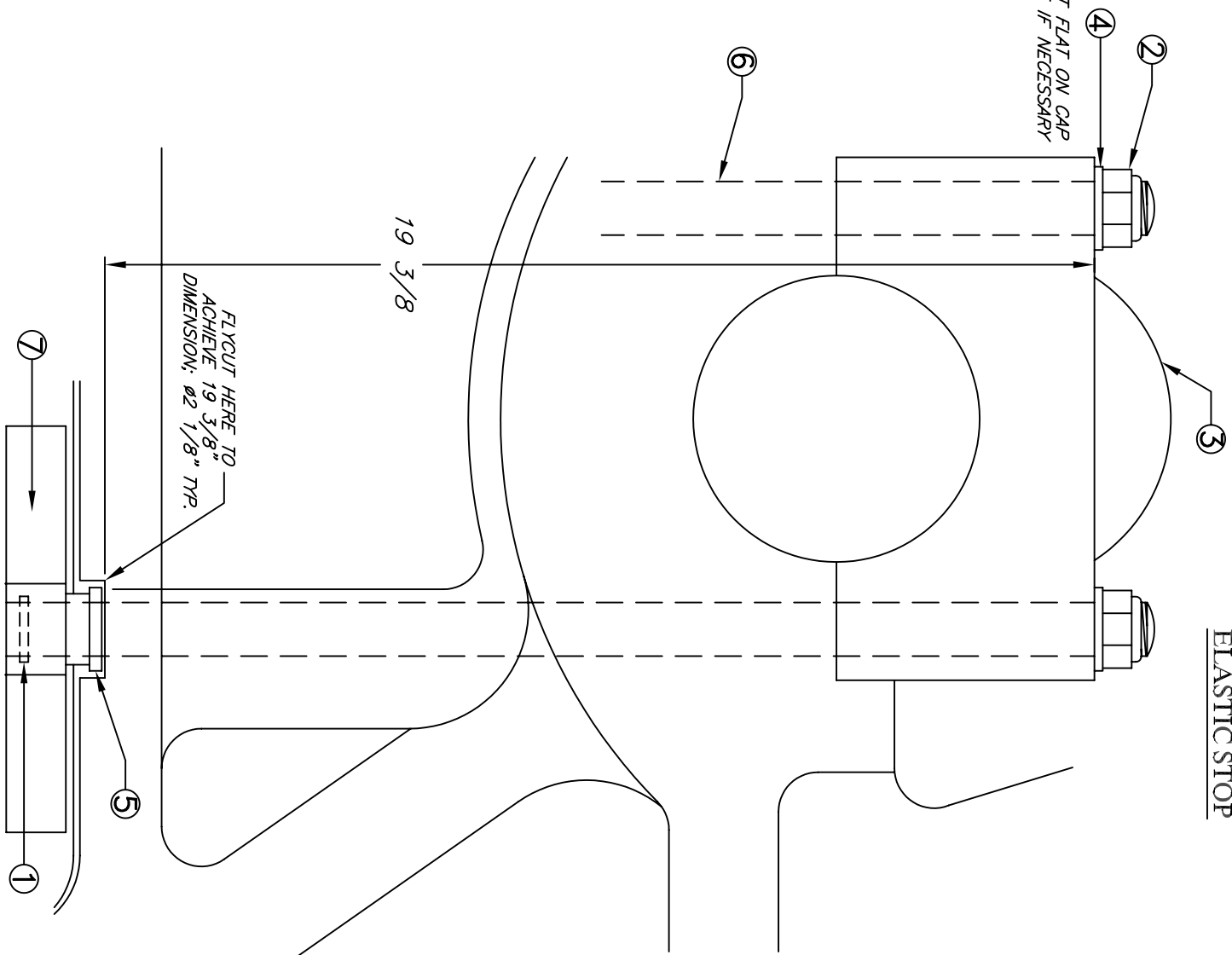
**ELASTIC STOP**

MUST SIT FLAT ON CAP  
GRIND EDGE IF NECESSARY

ELASTIC STOP				
ITEM	V-12 QTY.	V-16 QTY.	PART NUMBER	DESCRIPTION
1	28	36	P-002-723	ROLL PIN
2	28	36	P-01EN1600PF	NUT
3	7	9	P-027-261	BEARING CAP
4	28	36	P-026-414	WASHER
5	28	36	P-032-972	WASHER
6	28	36	P-032-973-EN	STUD
7	28	36	P-032-977	NUT

P-032-973-X-1 KIT CONSISTS OF:

{4}	P-002-723	{4}	P-032-973-EN
{4}	P-01EN1600PF	{4}	P-032-977
{4}	P-026-414	{4}	P-032-972



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300 WEST FIRST - ALICE 22ND FLOOR 15th  
FASTENING MODIFICATIONS - VEE

DRAWING NUMBER P-SK-7261

REV. 7