

# Change Bulletin

No: CB044

Rev: 0

Date: 16 April 2010

**Description:**

Upgrades to TESCO Cementing Plug Launching System



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## BACKGROUND INFORMATION:

During several field trials of the TESCO Cementing Plug Launching System (CPLS), a number of deficiencies were identified with the Ball Launching Mechanism (BLM). Design changes were made and implemented to address these deficiencies. The following is a summary list of the design changes that were made (also see diagrams below):

1. The O-ring grooves that were in the purge valve cylinder were moved to the BLM body. This reduced the possibility that the O-ring may get cut during assembly.
2. The guard was split so that it can be removed without disassembly of the BLM.
3. The air lines in the BLM and control panel were replaced with brake lines and fittings to ease maintenance and reduce the possibility of “kinking” the lines.
4. Manual crank nuts were added to the purge valve to facilitate the opening and closing of the purge valve with a wrench.
5. Slots were added to the ball cages to enable the operator to rotate the ball cage with a special wrench so that it engages in the proper orientation. A dual purpose wrench was added to the equipment kit for this purpose.
6. An O-ring has been added to the sealing face and to the bore of the purge valve seal to enable the purge valve to seal at low pressure (300 psi) and at high pressure (5,000 psi).
7. The material of the blade guide was changed from Nylatron to Brass. The nylatron absorbed water and swelled out, making the assembly difficult and causing the blade to stick.

The detail of the design changes were documented in ECN-071-0036 and ECN-071-0050.

## AFFECTED PRODUCT:

### Discontinued Assembly

Description	Part No.	Serial No.	Mfg. Date
Ball-Launch-Mechanism Assembly	990065	All	2008-2009

### New Assembly

Description	Part No.	Serial No.	Mfg. Date
Ball-Launch-Mechanism Assembly	710113	All	2010 forward

## ACTION REQUIRED:

**None. This bulletin is for information only.** All BLM's already produced to date had been reworked to include the changes described above.

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**Contact your local TESCO Parts and Service Center for further information regarding this bulletin and or supply of affected components noted above.**

