



GROUP
Engine

MODEL
Multiple Models

NUMBER
PS067 (Rev 1, 10/16/2018)

DATE
January 2008



TECHNICAL OPERATIONS

SUBJECT: CYLINDER HEAD STEEL BALL INSPECTION
AND INSTALLATION

* NOTICE

This bulletin has been revised to include additional information. New/revised sections of this bulletin are indicated by a black bar in the margin area.

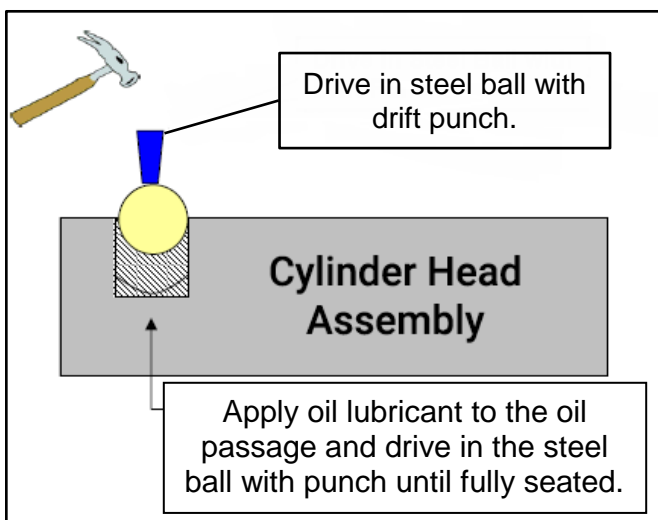
This Pitstop provides information regarding the inspection and installation of the steel sealing ball on:

- 3.3L & 3.8L Lambda engines for 2007-2008MY Sorento (BL),
- 2.0L Nu engines for 2010-2019MY Soul (AM, PS), and
- 1.8L & 2.0L Nu engines for 2010-2018MY Forte (TD, YD/YDm), 2019MY~ Forte (BDm).

When replacing the cylinder heads on these engines, inspect the lubrication ports for installation of the steel sealing balls. Current replacement cylinder heads may not be equipped with the required steel balls. Identify and locate the nine (9) lubricant passages on 3.3L and 3.8L engines and three (3) on 1.8L and 2.0L engines and verify a steel ball is installed in each.

If any passages are not plugged, insert a steel ball and drive down until fully seated per illustration / photos as shown. [SST# 0K221 2M100](#) can be used.

Caution: Be careful not to damage any cylinder head sealing surfaces! Support the cylinder head with suitable material; wood block or similar device.



Part Name	Part Number
Steel Ball	Refer to EPC

Model	Model Year
Sorento (BL)	2007-2008
Soul (AM)	2010-2013
Soul (PS)	2014-2019
Forte (TD)	2010-2013
Forte (YD/YDm)	2014-2018
Forte (BDm)	2019~

Note: On 3.3L and 3.8L engines, there are a total of nine (9) steel balls installed, four (4) on the R/H cylinder head and five (5) on the L/H cylinder head. On 1.8L and 2.0 engines, there are a total of three (3) steel balls installed. See photos below.

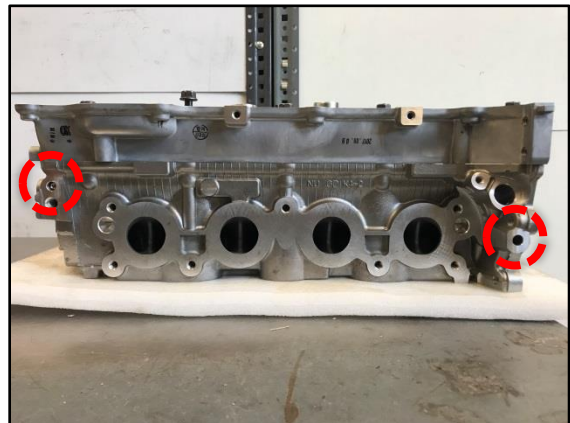
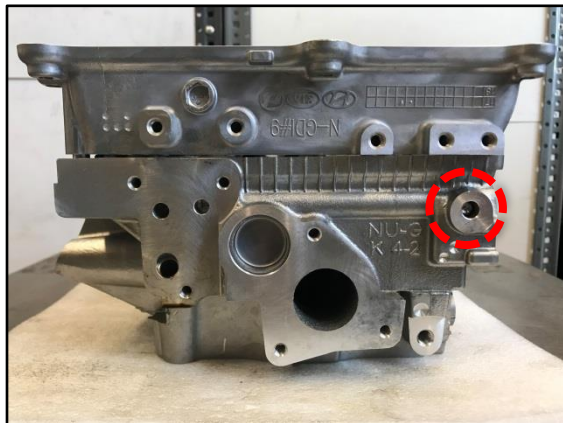
3.3L/3.8L Left Head (5 ports)



3.3L/3.8L Right Head (4 ports)



2.0L Nu Head (3 ports)



Note: 2.0L Nu head shown above is for demonstration purposes only. Location of the lubrication ports on a 1.8L Nu head may differ.