



## IPD TECH BULLETIN

June 2002 IPD-TB-0003

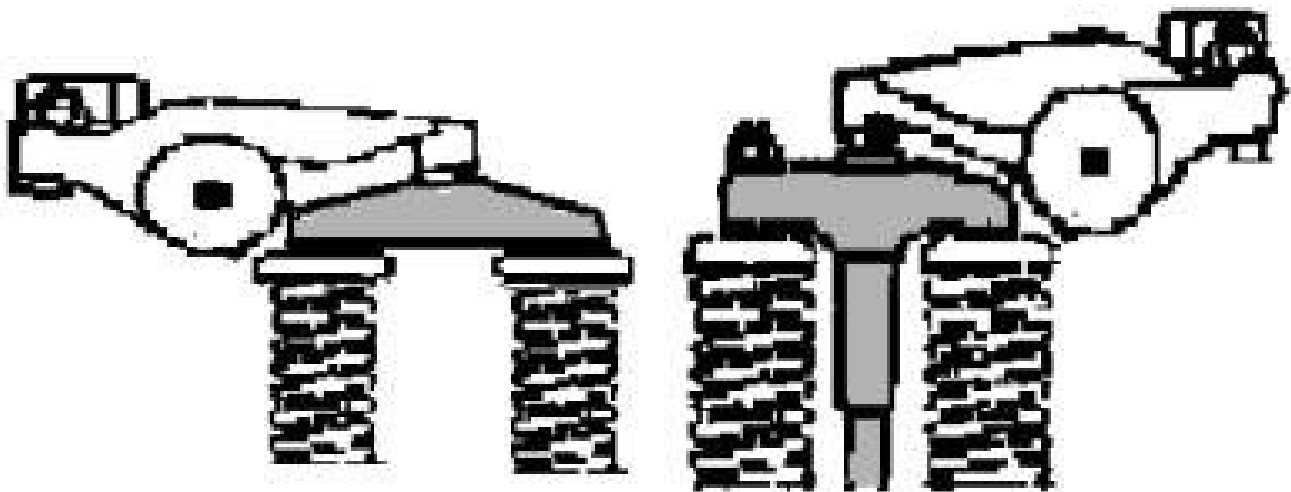
### **Caterpillar ® 3408 & 3412 cylinder heads with valve bridges that do not ride on dowels use a longer intake and exhaust valve than previous models!**

Older Caterpillar ® 3408 & 3412 engines use a valve bridge that rides on a dowel pressed into the cylinder head. Engines with the serial numbers listed below may utilize a valve bridge that does not ride on dowels; newer engines as well as HEUI engines use longer intake and exhaust valves.

Affected serial numbers listed below (note this list may not be all inclusive so please consult the proper cataloging utilizing serial and arrangement numbers for more accuracy).

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3408C: 1LG, 1TS, 2BG, 8RG, 9ER, 9TD, 9XM, 67U, 78Z, 99U 3412C: 2WJ, 3JK, 5RL, 7BL, 8AR, 9BR, 9XF, 38S, 60M, 81Z 3408E & 3412E: Both of these HEUI engines may utilize the longer valve



Newer Style Without Dowel

Older Style With Dowel



Difference in valve length as follows: (Distance measured from top of keeper groove to top of valve).

Part	No.Description	For use in	Length
1220321	Long Int. Valve	Later engines wo/dowel	15.45mm (.608in)
1220322	Long Int. Valve	Later engines wo/dowel	15.45mm (.608in)
1220367	Short Exh.Valve	Earlier engines with Dowel	12.45mm (.490n)
1220368	Short Exh.Valve	Earlier engines with Dowel	12.45mm (.490n)

Failure to use the proper valve in the proper cylinder head will cause **catastrophic failure!**

IPD currently offers all of the above latest style valves for Caterpillar ® and many other applications manufactured from up to date materials and dimensions. Using older valve designs or materials will put your reputation at risk! IPD offers a very complete and competitive valve train program for diesel and natural gas applications covering many applications, models and manufacturers. Please see our web site at [www.ipdparts.com](http://www.ipdparts.com) or contact your IPD Distribution Center, Regional or Area Manager for more details.

Thank You