



Cylinder Block Boring Caution for 2007-2019 Nissan HR/MR Family Engines

The AERA Technical Committee offers the following information concerning a cylinder block boring caution for 2007-2019 HR/MR family engines. This caution expressed should be considered anytime oversize pistons or cylinder sleeving is being considered. It is important to note all MR engines listed below are included in this block caution.

Nissan went to greater extent while manufacturing these engines as compared to some of their other recent engines. The MR engine family features 'under stress' manufacture, meaning while the block is being bored and final honed, a torque plate puts the block under stress. The block becomes temporarily distorted until the head is torqued onto it during assembly, at which point the block is pulled into the correct shape.

MR Engine Family	HR Engine Family
MR16DDT	HR10DE
MR18DE	HR12DE
MRA8DE	HR15DE
MR20DE	HR16DE
MR20DD	

Some of these engines have been used worldwide since 2005 and most are still currently being manufactured. At the time of this writing, AERA is unaware of a manufacturer of these torque plates but call us at 815-526-7600 and we'll update you at that time.