



### Rear Main Bearing Seal Caution On 1939-71 Jeep 2.2L Engines

The AERA Technical Committee offers the following information on rear main bearing seal caution on 1939-71 Jeep 2.2L engines. These engines are sometimes referred to as the F & L head engines.

During production of these engines, two different cylinder blocks were manufactured. The early cylinder blocks had a rope type rear main bearing seal installed in them while later production blocks had conventional type rear main bearing seal installed in them.

When assembly of these engines is taking place, making sure you have the correct type of seal will help prevent engine failure. If the conventional rear main seal is installed in the early blocks that required a rope seal, there may be a possibility of bearing failure. On the conventional seal is an arrow showing the direction of crankshaft rotation as shown in Figure 1.



This arrow (marked with white) should be visible from the rear of the engine when properly installed.

One way to verify that you are using the correct rear main seal is that the conventional seal is used on crankshafts that have a rear crankshaft seal area of 2.302-2.312". The rear main bearing seal has to be lubricated during installation. If the seal is too tight, no amount or special type of lubricant will make it work properly. Rear main bearing seal fit has to be correct or a leaking rear main bearing seal and/or a possible rear main bearing problem can occur.

The AERA Technical Committee

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