



Cylinder Head Availability on 1985-97 4B & 6B Series Cummins Diesel Engines

The AERA Technical Committee offers the following information regarding the Cummins Recon cylinder head availability on 1985-97 4B & 6B series diesel engines. Cylinder heads for 4B and 6B pre-1991 model years with the 9mm injector bores have been made obsolete and are no longer available from Cummins.

The pre-1991 cylinder heads have been superseded by the 1991 model industrial cylinder heads with 7 mm injector bores. When servicing all pre-1991 model engines, the 1991 model industrial cylinder head should be used to retain the correct swirl for combustion purposes. If the 1991 model automotive cylinder head is used on any pre-1991 model engine, poor performance and smoke issues can result due to improper combustion.

Engine:	4B	4B	6B	6B	6B	6B	6B
Model:	1991 (6)	1991 (6)	1991 (6)	1991 (6)	Above 177 HP	1994	
Application:	Industrial	Auto	Industrial	Auto	Industrial	Auto	Marine
Injector Size	7mm	7mm	7mm	7mm	7mm	7mm	7mm
Swirl	High	Low	High	Low	Low	Low	High
Complete Head (1)	3927298	3927330	3927299	3927300 (2)3927301	3927289	3927289	3927303
Assembly (3)	3920005	3917433	3917287	3925389	3925389	3925389	3925762
Valves:							
Intake	3920867	3920867	3920867	3920867	3920867	3920867	3920867
Exhaust	3920868	3920868	3920868	3920868	3920868	3920868	3925175
Springs:							
Intake	3926700	3926700	3926700	3926700	3926700	3926700	3926700
Exhaust	3926700	3926700	3926700	3926700	3926700	3926700	3925667
Retainers:							
Intake	3900299	3900299	3900299	3900299	3900299	3900299	3900299
Exhaust	3900299	3900299	3900299	3900299	3900299	3900299	3925666
Stem Seal:							
Intake (5)	3921640	3921640	3921640	3921640	3921640	3921640	3921640
Exhaust	3901097	3901097	3901097	3901097	3901097	3901097	3921640
Stem Seal:							
Intake	3906854	3906854	3906854	3906854	3906854	3906854	3925177
Exhaust	3904105	3904105	3904105	3904105	3904105	3904105	3925176
Collets	3900250	3900250	3900250	3900250	3900250	3900250	3900250

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Notes:

1. Complete head include valves, springs, seals, etc. and is ready for installation.
2. Cylinder head has Part No. 3916691 exhaust brake spring installed from factory.
3. Assembly is the bare machined head with only marine cup plugs installed.
4. Exhaust brake valve spring for automotive is Part No. 3916691.
5. Use Part No. 3901097 seals on the intake valves for naturally aspirated engines.
6. Pre-1991 model cylinder heads with 9 mm injector bores are no longer produced and have been superseded to the 1991 model cylinder head. Consult the "Injection Pumps and Injectors Midrange Engines" manual for the 7mm injector needed.

While there still may be remaining stock of previous 9mm injector cylinder heads, it is advised to update to the newer cylinder head components anything the cylinder head is being worked on. Doing so, will improve engine emissions and provide a product for continued engine service.