

Engine Mount Check

Excerpt Dave Breggins CD on Hummer Maintenance (available for purchase at www.bluehummer.com)
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Description

Engine Mounts are checked as part of the "A" Service

Fasteners

Fastener	Wrench Size	Loctite	Torque	Notes / Special Tools
Mount to Lower Bracket	3/4"	-	90 lb ft	
Mount to Upper Bracket	9/16"	-		
Upper Bracket to Engine Block	9/16"	-	30 lb ft	

Notes / Special Instructions

- There are two Engine Mounts, one on either side of the engine. The two mounts are the same. The Engine Mount is constructed of two metal plates with various holes and studs. These metal plates are bonded together with a piece of rubber about 1 inch thick. There is no interlocking of the two metal plates – once the rubber bonding fails the two plates are free to separate completely.
- As the Engine rotates, it tends to stretch the driver-side Engine Mount, and compress the passengerside Mount. The passenger-side Engine Mount almost never fails.
- A bad or failed Engine Mount will usually allow very noisy contact between the fan and the fan shroud. Damage to either the fan or the fan shroud is likely. The water pump and the fan clutch may also be damaged. This noise and contact will usually happen only in low range operation.
- A failed Engine Mount may not be noticed in high range. Ordinary driving in high range (no rapid acceleration) usually does not produce enough engine torque to stress the Engine Mount enough to make fan contact. With care, a truck with a failed Engine Mount can be safely driven on-road in high range.
- If you are not sure whether an Engine Mount is bad, have a reliable assistant perform the Engine Mount Stress test while you observe the Engine Mount directly. The Engine Mount is most easily seen from below the truck (Illustration 2).

Notes on Engine Mount Replacement

- It may be easier to remove the Engine Mount and the Upper Bracket as a unit.
- To raise the engine, place a wood block across the rear of the oil pan, near the lip, and lift gently with a jack. Raise the Engine only enough to free the Engine Mount. Use care not to bend the fan or fan shroud. Refer to the service manual for the complete procedure.

Check Engine Mount

1. Open hood so you can observe Engine movement.
2. Set parking brake.
3. Start Engine.
4. Place Transfer Case in L (low).
5. Stress the Engine Mount.



Illustration 1 - Engine Mount

- Hold the truck with the foot brake.
- Put the transmission in 1.
- Gently press the accelerator pedal. Do not allow the truck to move.

6. Check the Engine for movement.

- If the Engine Mount is good, the engine will raise only a small amount, and not easily. Do not over stress the Engine or Mount.
- If the Engine Mount has failed, the engine will raise up easily. Use care not to damage the fan or fan shroud.
- If the Engine Mount is bad (partially failed), the engine will rise up easily, but perhaps not enough to cause much fan contact.

7. A bad or failed Engine Mount should be replaced promptly.

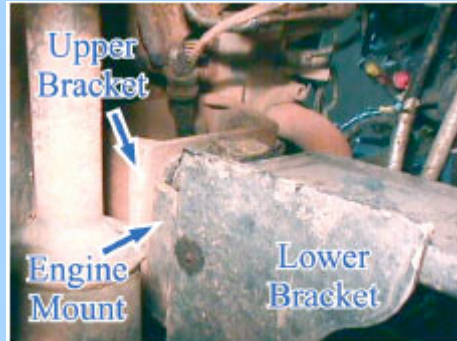


Illustration 2 - Engine Mount & Brackets



Illustration 3 - Bad Engine Mount