UNIVERSAL STREET ROD STYLE MOTOR MOUNT KITS

PART #4505 & 4508
Chevy 283-350 SB & 396-454 BB

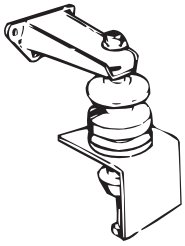
PART #4506 & 4509
Chevy/GM LS1/LS6/Vortec 4.8, 5.0, 5.3, 6.0L

PART #4507 & 4510
Dodge Hemi 5.7L (New Style)

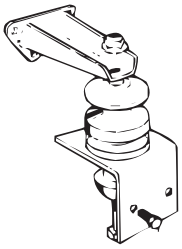
INSTALLATION INSTRUCTIONS

READ FIRST

These units are manufactured and offered as an aid in making this conversion. Since no two engine swaps are the same, other changes or modifications may be required. If in doubt, seek professional advice. Trans-Dapt Performance Products is not liable for the misuse and/or the improper use of these mounts. This kit is designed to be used with stock engines only, not for racing. It is the responsibility of the owner/ installer to install the engine safely & properly.



4505 / 4506 / 4507
WELD-ON
Fits 27 to 33" frame widths.



4508 / 4509 / 4510
BOLT-ON
Fits 24 to 30" frame widths.

All these motor mount kits contain the same basic parts, with the exception of the "Mount-To-Mount" Plates.

1. Determine your vehicle's original engine centerline before removing the engine. This is necessary when installing the new engine.
2. Position the new engine so the crankshaft centerline is in approximately the same position as the original engine was. Make certain the new engine clears the firewall, steering box, brake master cylinder, radiator, etc., with a minimum amount of cutting.
3. Bolt the engine mount adapters to the block using **Only** the ***Grade 8 bolts*** & lock washers included in this kit. Using the proper engine mount holes for your frame width, bolt the frame mount bracket, rubber/steel pad and engine mount adapter together **Only** using the ***Grade 8 bolts,*** washers & nylon-locking nuts included in this kit.
4. On the #4505, #4506 and 4507 mounts tack weld the frame mounts to the frame. Next, disassemble the adapters and the rubber/steel pad. Finish-weld the frame mounts to the frame for maximum strength.
5. On the #4508, #4509 and #4510 mount kits, bolt the frame mounts to the frame using **Only** the ***Grade 8 bolts*** included in this kit.
6. Your Trans-Dapt motor mounts are now ready for final installation of the replacement engine. Use Trans-Dapt Heavy Duty Engine Tilter #9099 to install the engine safely & with ease.

IMPORTANT GUIDELINES FOR A SAFE INSTALLATION

- Use **Only** the ***Grade 8 bolts*** and hardware provided in this motor mount kit.
- Use thread lock on all bolts that do not use a nylon-locking nut.
- Do not attempt to stack washers or shim the engine mounts to raise the engine. All height adjustments are to be made with the frame mount position before you weld or bolt the brackets into position.

SEE OTHER SIDE FOR SAE STANDARDS FOR STEEL BOLTS.

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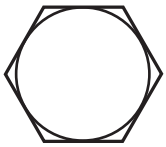
BOLT GRADES & TORQUING INFORMATION

SAE STANDARDS FOR STEEL BOLTS

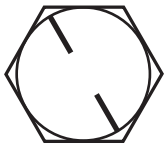
The SAE has established a sequence of grades from 0 to 8 for steel bolts, on the basis of the metal from which the bolt is made and the manner of manufacture. Available grades run from 2 to 8, with 8 the strongest. Higher-grade numbers almost always mean increased strength (an exception is that some grade 6 bolts are stronger than grade 7). The heads of steel bolts are marked to identify their grade.

IDENTIFYING BOLT GRADE

All Grading on Hex Head steel bolts can easily be identified. Grading is identified by the number of lines on the head of each bolt (Please refer to the illustrations below).



0, 1 & 2



3

5

6

7

8

TORQUING BOLTS

As a rule, when a bolt is installed, the nut (over a washer) should be turned and not the bolt's head. Unless a torque wrench is used the tendency is to undertighten large bolts and overtighten small ones. Suggested torques are given below. These suggestions do not apply if the bolt or nut has been specially lubricated.

Bolts should not be Installed or Torqued more then one time.
Replace any used bolts with the exact same size and grade.

Approximate Torque Settings for Cadmium-plated Bolts, specially lubricated, in foot-pounds.

BOLT DIAMETER IN INCHES										
BOLT GRADE	**¼"**	**5/16"**	**3/8"**	**7/16"**	**½"**	**9/16"**	**5/8"**	**¾"**	**7/8"**	**1”**
SAE 2	4.6	9	15	24	36	50	69	117	184	273
SAE 3	6.9	14	24	38	57	82	113	198	317	477
SAE 5	7.5	15	25	40	59	83	114	196	309	459
SAE 6, SAE 7	9.7	19	34	55	83	120	166	291	469	710
SAE 8	10.5	21	37	60	90	130	180	316	509	769
SOCKET HEAD CAP SCREWS	12.7	25	45	72	109	157	217	381	615	929