



A, B, and, E Body INSTALLATION / ADAPTATION of: 5.7L HEMI Crate Engines and Conversion Kits

Required Installation Parts and Notes.

The following notes and parts list have been assembled to provide you with the necessary information to install the 5.7L HEMI Crate engines into your A, B, or E – body car.

- P4510593 – 5.7L MPI Crate engine
- P4510594 – 5.7L Carb. Crate engine
- P5153339 – 5.7L HEMI MPI conversion kit
- P5153340 – 5.7L HEMI Carb. conversion kit

Engine Components:

- Alternator 56028699AA
- Pwr. Steering pump 52113454AI
- A/C Compressor 55056336AB
- Tensioner 53032130AA
- Serpentine Belt* 53032132AK
- A/C Delete Pulley 53032131AA
- Cooling Fan 52027846AB
- Fan Clutch 52029876AC

Depending upon the vehicle that the Hemi engine will be installed in there are a few components available to help with the engine fitment.

5.7L HEMI Oil Pans:

1. RAM 1500-2500 (supplied with 5.7L crate motor)
 - a. 53021334AF (stamped steel, rear sump)
 - b. 53021522AD Pickup
2. 300C RWD
 - a. 04792870AA (cast aluminum, front sump)
 - b. 04792857AB Pickup
3. Durango
 - a. 53021687AC (stamped steel, ¾ front sump)
 - b. 53021699AB Pickup
4. Grand Cherokee
 - a. 53021860AC (cast aluminum, rear sump)
 - b. 53021522AD Pickup
5. Mopar Performance Oil Pan
 - a. P5153643 – (aluminum, 7qt Center Sump)

Oil pans may require modifications to clear steering linkages. If aftermarket pans are used check the pan rail heights, production pan bolts may not be long enough.

Exhaust Manifolds:

Cast iron Ram exhaust manifolds have been provided with the engine. The additional listed cast iron manifolds may be of use as well. The Durango and Ram have common passenger side manifolds.

- 300C HEMI RT 04792770AC
- 300C HEIM LT 04792771AC
- Durango LT 53032437AB
- Grand Cherokee RT 53013606AB*
- Grand Cherokee LT 53013605AB*

*Grand Cherokee manifolds provide the most clearance

NOTE: The 5.7L HEMI engines are internally balanced

Transmission Options

Automatic: The DaimlerChrysler engineers were nice enough to leave most of the small block bolt pattern in tact. What that means for you is that any 727 or 904 type transmission will bolt up to the new HEMI. See below for suggested Mopar Performance parts to assist with the install.

- P5153753 HEMI Flexplate for Mopar converters
- P4510645 Kick down cable
- P4510319 Kick down bracket
- R2118323AC – lockup and overdrive transmission
- Performance torque converters Pg 112-113 of your Mopar Performance Parts catalog.

Manual: Mopar Performance has developed several new parts to aid in manual transmission installations. See below for the suggested Mopar Performance parts to assist with the install of an A833 or Tremec TKO 5spd:

- P5153593 – Aluminum Flywheel 14.5lbs
- P5153592 – Steel Flywheel 30lbs
- P5153595 – Clutch Cover
- P5153594 – Clutch Disc (500 lb – ft torque cap.)
- P5153602 – SFI Bellhousing (production or hydraulic lever)

Hydraulic System Components

- 52107555 – Fork - clutch release
- 53008342 – Bearing w/Sleeve
- 52087542 – Pivot, clutch release fork
- 04338855 – Spring, clutch release fork
- 52107625 – Clutch hydraulics (Dakota)

Ignition and Electronics:

- P4529794 – OE muscle car voltage regulator or
 - P3690731 – Constant output voltage regulator
- P5249644AB – Mopar light weight starter
- 04606866AA – Radio suppression capacitors
 - Only required if you are experiencing radio interference with tack, radio, or any other electrical device.
- P4510598 – Tachometer adapter required to convert signal from the multi-coil system.

Charging System

The production 5.7L HEMI truck alternator (56028699AA) can be used with the above voltage regulators and integrated in to your muscle car. From the alternator connector, connect the wire from terminal #1 (field control) to the blue 12V ignition wire on the regulator. Connect the #2 terminal (ground) to the green field wire on the regulator. Your original pole wire may be under-gauged for your system requirements.

Suggestion: Convert the car's amp-meter to a voltage meter and route power to the battery rather than under dash to the amp-meter.

Note: Make sure that the cars wiring is in good shape and sized properly for the required loads.

5.7L Hemi base engine performance and durability upgrades available from Mopar Performance

Ported Cylinder Heads:

- P5153343- LH head – complete assembly
- P5153344- RH head – complete assembly

Forged Crankshaft:

- P5153479 – Magnafluxed, forged crankshaft

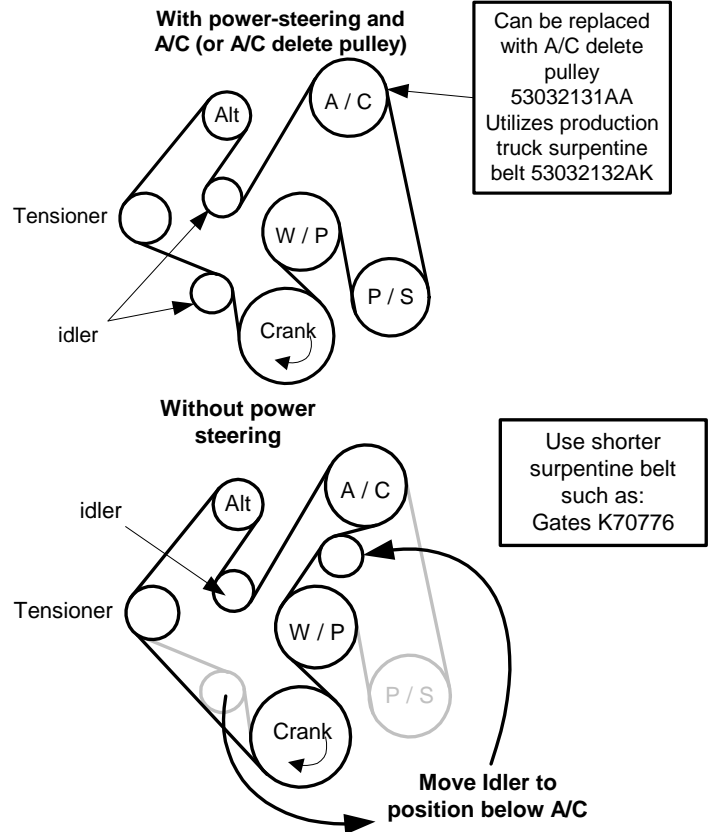
Programmable EMS & Wiring Harness*:

- P5153916 – Carbureted 5.7L applications
- P5153917 – Fuel Injected 5.7L applications

*not for use on 'production vehicle'-type applications. Street rod or off-road use only.

Serpentine belt routing options:

5.7L HEMI Crate Engine Belt Routing Options



Engine Fluids:

- 04761851AC – 5W-20 Motor Oil , 7-8 quarts required
- 05066386AA – G05 Antifreeze

Engine Mounting:

Engine mounts and custom headers for A, B, and E bodies can be obtained from Tube Technologies Inc. www.ttiexhaust.com