

2009 Chrysler Aspen HEMI® Hybrid Specifications

All dimensions are in inches (mm) unless otherwise noted.

General Information

| | |
|-------------------|--|
| Body Style | Four-door, full-size sport-utility vehicle |
| Assembly Plant | Newark, Delaware |
| EPA Vehicle Class | Multipurpose vehicle |

Engine: 5.7-liter HEMI® Hybrid, OHV, V-8 with Multi-displacement System (MDS)

| | |
|----------------------|---|
| Availability | Limited package standard |
| Type and Description | 90-degree V-type, liquid-cooled |
| Displacement | 345 cu. in. (5654 cu. cm) |
| Power Output | 345 hp @ 5300 rpm (estimated) |
| Torque | 380 lb.-ft. @ 4200 rpm (estimated) |
| Bore x Stroke | 3.92 x 3.58 (99.5 x 90.9) |
| Fuel Injection | Sequential, multi-port, electronic, returnless |
| Construction | Deep-skirt cast-iron block with cross-bolted main bearing caps, aluminum alloy heads with hemispherical combustion chambers |
| Maximum Engine Speed | 5800 rpm (electronically limited) |
| Fuel Requirement | Unleaded regular, 87 octane (R+M)/2 |
| Fuel Capacity | 27 gal. (102.2L) |
| Oil Capacity | 7 qt. (6.6L) |
| Coolant Capacity | 18.7 qt. (17.7L) |

Electric Motor

| | |
|--------------|------------------------------------|
| Power Output | 87 hp |
| Torque | 235 lb.-ft. |
| Type | Two AC synchronous electric motors |
| Voltage | 300 V max |

Battery

| | |
|--------------|-------------------------------------|
| Power Output | 40 hp |
| Voltage | 300 V |
| Type | Sealed Nickel-metal hydride (Ni-MH) |

Total Hybrid System

| | |
|---|--|
| Power Output | 385 hp (estimated) |
| Emission Control | Dual three-way catalytic converters, heated oxygen sensors, electronic EGR and internal engine features ^(a) |
| Estimated EPA Fuel Economy mpg (city/hwy) | 19/20 |

Transmission: Two-mode Hybrid

| | |
|--------------|---|
| Availability | 5.7L engine |
| Description | Hybrid-electric transmission with two variable modes, four fixed gears and regenerative braking |

Gear Ratios

| | |
|------------------|----------------------------|
| EVT Low | Infinite to 1.7 (variable) |
| 1st Fixed | 3.692 |
| EVT High | 1.7 to < .738 (variable) |
| 2nd Fixed | 1.705 |
| 3rd Fixed | 1 |
| 4th Fixed | .738 |
| Overall Top Gear | 2.37 with 3.21 axle ratio |

Transfer Case

| | |
|--------------------------|-------------------------|
| Availability | Standard |
| Type | Single-speed |
| Center Differential Type | On-demand active clutch |
| Torque Split, Front/Rear | 47/53 |

Dimensions

| | |
|-------------------|---------------|
| Wheelbase | 119.2 (3027) |
| Track, Front | 64.4 (1637) |
| Track, Rear | 64.5 (1637.4) |
| Overall Length | 202.1 (5132) |
| Overall Width | 76.0 (1929) |
| Overall Height | 73.6 (1869) |
| Load Floor Height | 33.6 (854) |
| Sill Step Height | 19.8 (502.8) |

Ground Clearance

| | |
|------------|-----------|
| Front Axle | 6.9 (176) |
| Rear Axle | 7.8 (198) |

Accommodations

Seating Capacity, Front/Second/Rear 2/3/3 — standard

Front Seat

| | |
|---------------|----------------------------|
| Head Room | 40.8 (1036) |
| Leg Room | 41.4 (1050.8) |
| Shoulder Room | 59.6 (1514.8) |
| Hip Room | 58.8 (1492.5) |
| Seat Travel | 7.5 (189.7) |
| SAE Volume | 58.0 cu. ft. (1.642 cu. m) |

Second Seat

| | |
|---------------|--------------------------|
| Head Room | 39.3 (997.5) |
| Leg Room | 37.4 (949) |
| Shoulder Room | 59.6 (1515) |
| Hip Room | 57.2 (1452) |
| SAE Volume | 50.6 cu. ft. (1.4 cu. m) |

Third Seat

| | |
|---------------|---------------------------|
| Head Room | 39.2 (997) |
| Leg Room | 34.5 (875.1) |
| Shoulder Room | 58.9 (1495.4) |
| Hip Room | 48.0 (1219.2) |
| SAE Volume | 46.1 cu. ft. (1.32 cu. m) |

Cargo Volume (cu. ft.)

| | |
|---|--------------------|
| Aft of Third-row Seat | 20.1 (569L) |
| Aft of Second-row Seat, Third-row Seats Folded | 68.4 (1.93 cu. m) |
| Aft of Front Seat, Second- and Third-row Seats Folded | 102.4 (3.07 cu. m) |

Width Between Wheelhouses 48.0 (1219.2)

Body and Frame

| | |
|--------------|---|
| 4WD | |
| Layout | Longitudinal front engine, transfer case for four-wheel drive |
| Construction | Ladder-type frame, steel body mounted on 10 rubber isolators |

Suspension

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|-------|--|
| Front | Upper and lower “A” arms, torsion bars, gas-charged monotube shock absorbers, stabilizer bar |
| Rear | Live axle, link coil with Watt’s linkage, gas-charged monotube shock absorbers, stabilizer bar |

Steering

| | |
|--|---|
| Type | Electro-hydraulic power rack and pinion |
| Overall Ratio | 18.86 — on center, 13.17:1 at full lock |
| Turning Diameter (curb-to-curb) ^(b) | 39.9 ft. (12.2 m) |
| Steering Turns (lock-to-lock) | 3.41 |

Tires

| | |
|------|-----------------------|
| Type | Goodyear Wrangler SRA |
| Size | 265/60/18 |

Wheels

| | |
|------|---------------------------------------|
| Type | Chrome-clad cast aluminum seven-spoke |
| Size | 18” x 8” |

Brakes

| | |
|-------------------|---|
| Front | |
| Size and Type | 13.2 x 1.1 (336 x 28) vented disc with 2.13 (54) two-piston pin-slider caliper and ABS |
| Swept Area | 278 sq. in. (1796 sq. cm) |
| Rear | |
| Size and Type | 13.8 x 0.87 (352 x 22) disc with 2.13 (54) single-piston pin-slider caliper and ABS with Traction Control |
| Swept Area | 257 sq. in. (1658 sq. cm) |
| Power Assist Type | Regenerative braking with dual-rate, tandem diaphragm vacuum |

Towing Chart Aspen Limited 4WD

| Engine | Trans Type | Transmission | Axle Ratio | Rear Axle | GVWR | Payload |
|-------------------------------|----------------|-----------------|------------|-----------|-------|------------|
| 5.7L HEMI [®] Hybrid | A5 | Two-mode Hybrid | 3.21 | 8.25 | 7050 | 1410 |
| | | | | | | |
| Base Wt. Total | Base Wt. Front | Base Wt. Rear | GAWR Front | GAWR Rear | GCWR | Max. Trail |
| 5637 | 3071 | 2566 | 3600 | 3900 | 11800 | 6000 |

1. Payload is rounded to the nearest 10 lbs. Payload = GVWR (-) Base Weight.

2. Maximum trailer weights are rounded to the nearest 50 lbs.

Maximum Trailer Weight = GCWR (-) Base Wt. Total (-) 150 lbs. (allowance for driver).

3. All the above ratings are valid with Trailer Tow Package only.

^(a) Meets Calif. LEV II Emissions Standards.

^(b) Turning diameter is measured at the outside of the tires at curb height.