SAC **Springfield Auto Care** EXAMPLE SHOP
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TECHNICIAN WORKSHEET · 5.7L HEMI (2003–2008)
RA-HE57E-123456-20261028

# 2006 Dodge Ram 1500 · DR Ram 1500 Quad Cab SLT 5.7 Hemi 4x4 · 4WD

1D7HU18216S123456

| ODOMETER IN | DOOR-JAMB BUILD (MM/YY) | RO # | TECHNICIAN / DATE |
|---|---|---|---|
| 148,000 | | | |

## A · RECALLS AND CAMPAIGNS TO VERIFY (DEALER PRINTOUT OR NHTSA.GOV)

| | |
|---|---|
| **16V-352** · Air bags · passenger frontal inflator | ☐ Open ☐ Done ☐ N/A |
| **15V-313** · Air bags · driver frontal inflator | ☐ Open ☐ Done ☐ N/A |
| **07V-038** · Front suspension · wheel bearing grease | ☐ Open ☐ Done ☐ N/A |
| **06V-354** · Seat belts · front passenger belt and child seats | ☐ Open ☐ Done ☐ N/A |
| **06V-353** · Air bags · passenger air bag and rear-facing child seats | ☐ Open ☐ Done ☐ N/A |
| **06V-038** · Brakes · ABS control unit (four-wheel ABS) | ☐ Open ☐ Done ☐ N/A |
| **05V-461** · Transfer case · TIPM calibration (4x4) | ☐ Open ☐ Done ☐ N/A |

## B · INSPECTION POINTS, IN PLAN ORDER

### 1. Spark plugs (16) and ignition misfires

Now · Past the range (Every 30,000 miles with the factory copper plugs (owner guide))

| | |
|---|---|
| Misfire counters per cylinder | ☐ OK ☐ Watch ☐ Fix |
| Inspect coil boots | ☐ OK ☐ Watch ☐ Fix |

Plugs: records / unknown

Scan for: P0300, P0301, P0302, P0303, P0304, P0305, P0306, P0307, P0308, P0351

Parts (DR): Ask your parts supplier for the OE part number for this VIN.

### 2. Dropped valve seats and broken valve springs

Check now · Past the range (64,000–109,000 mi, the middle half of 14 owner reports)

| | |
|---|---|
| Pressure-test the cooling system | ☐ OK ☐ Watch ☐ Fix |
| Compression or leak-down test on a misfiring cylinder | ☐ OK ☐ Watch ☐ Fix |
| Listen at a hot restart | ☐ OK ☐ Watch ☐ Fix |

Compression: even / one low cylinder

Cooling: holds pressure / leaks

Scan for: P0300, P0301, P0302, P0303, P0304, P0305, P0306, P0307, P0308

Parts (DR): Ask your parts supplier for the OE part number for this VIN.

### 3. Lifters and camshaft (the "Hemi tick")

Watch · Any mileage (no reliable figure)

| | |
|---|---|
| Misfire counters | ☐ OK ☐ Watch ☐ Fix |
| Oil filter for metal | ☐ OK ☐ Watch ☐ Fix |
| Tick with the engine hot and cold | ☐ OK ☐ Watch ☐ Fix |

Tick: none / cold only / persistent

Scan for: P0300, P0301, P0302, P0303, P0304, P0305, P0306, P0307, P0308, P3497

Parts (DR): Ask your parts supplier for the OE part number for this VIN.

### 4. Exhaust manifold bolts

Watch · Any mileage (Older engines; owners report rusted, snapped bolts)

| | |
|---|---|
| Soot at manifold flanges | ☐ OK ☐ Watch ☐ Fix |
| Cold-start listen | ☐ OK ☐ Watch ☐ Fix |
| Count broken bolts with a mirror | ☐ OK ☐ Watch ☐ Fix |

Scan for: P0420, P0430

Parts (DR): Ask your parts supplier for the OE part number for this VIN.

## FACTORY MAINTENANCE DUE BY 178,000 MI (ASK FOR RECORDS)

**Engine coolant** · every 102,000 mi or 5 years · was due at 102,000 mi and by age (check records) · From $179 ☐ Done (records) ☐ Due ☐ Quoted

## C · ALSO REPORTED FOR THE 5.7L HEMI (2003–2008), QUICK CHECKS

- **Stalling (all causes)** (577 complaints): All stall reports, across models: low-speed calibration stalls on 2003–2005 trucks, stalls after refuelling on 2005–2006 cars and rain-related stalls on Durangos are each covered by their own weak point; the rest have mixed causes.
- **Air bags / brakes / steering** (373 complaints): Body and chassis complaints (including the Takata inflator recalls); not engine faults.
- **Transmission** (92 complaints): Trucks and SUVs use the 45RFE/545RFE and the cars the NAG1 (W5A580) automatic; Chrysler bulletins cover delayed engagement and converter shudder. Not an engine fault.
- **Throttle control / ETC light** (33 complaints): Chrysler bulletins cover throttle body coking (18-016-05) and electronic throttle codes on early trucks; mixed causes, diagnose case by case.

## WHAT TO SAY AT THE COUNTER (ADVISOR)

**1. Spark plugs (16) and ignition misfires**
The 5.7L Hemi has two spark plugs per cylinder, 16 in all, and the factory copper plugs are on a 30,000-mile interval per owner service guides. At 148,000 mi it is due, unless the records show it done. Our price is $420, before tax and shop supplies.
Ask: have you noticed misfire codes, or rough idle?

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**2. Dropped valve seats and broken valve springs**
Owners of these engines report a valve seat working loose from the aluminum cylinder head and falling into the cylinder, usually at a restart after a hot shutdown, which wrecks the piston, head and often the block. At 148,000 mi your car is past the usual range, so if the original part is still fitted it is worth checking. Our price is $140, before tax and shop supplies.
Ask: have you noticed metallic clatter or 'gravel' noise at start-up, or engine will not restart after a short stop?

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Adjust after the inspection. The report is not a diagnosis or a guarantee, so say what the technician found, not what the report predicts.

## NOTES FOR THE ADVISOR

Record findings here (OK / Watch / Fix and measurements); the advisor adjusts the quote before the handout is printed or sent.