SAC **Springfield Auto Care** EXAMPLE SHOP
service@springfield-auto-care.example

TECHNICIAN WORKSHEET · 4.5L VK45DE V8
RA-VK45-402345-20261028

2004 Infiniti M45 · Y34 M45 4.5 V8 sedan · RWD

JNKAY41EX4M402345

ODOMETER IN: 131,000 | DOOR-JAMB BUILD (MM/YY): | RO #: | TECHNICIAN / DATE:

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

12V-088 · Fuel gauge can read high; car can run out of fuel and stall (2003–2004 M45) ☐ Open ☐ Done ☐ N/A

04V-497 · Exterior lighting · brake lights · switch ☐ Open ☐ Done ☐ N/A

03V-455 (Crank and cam position sensors can fail; stall or no start (2002 Q45, 2003 M45)): not listed by NHTSA for MY2004. Confirm on the dealer printout.

B · INSPECTION POINTS, IN PLAN ORDER

1. Stalling while driving: crank and cam position sensors

Check now · Inside the range (106,000–150,000 mi, the middle half of 25 owner reports)

Check the VIN for 03V-455 ☐ OK ☐ Watch ☐ Fix

Scan for P0335, P0340, P0345 and stored stall history ☐ OK ☐ Watch ☐ Fix

Inspect sensor connectors and engine grounds ☐ OK ☐ Watch ☐ Fix

Scan for: P0335, P0340, P0345

Parts (Y34): Ask your parts supplier for the OE part number for this VIN.

2. Fuel gauge reads high, car runs out of fuel and stalls (recall 12V-088)

Check now · Any mileage (2003–2004 M45 (built Mar 2002 – Jun 2004))

Check the VIN for 12V-088 ☐ OK ☐ Watch ☐ Fix

Fill the tank and compare the gauge with a known fuel level ☐ OK ☐ Watch ☐ Fix

Gauge at full tank: ___

Parts (Y34): Ask your parts supplier for the OE part number for this VIN.

3. Accessory-belt idler pulley noise and bracket (2002 Q45 campaign)

Watch · Any mileage (2002 Q45 campaign; noise reports on 2003–2004 cars)

Listen at the idler pulley ☐ OK ☐ Watch ☐ Fix

Check pulley play with the belt off ☐ OK ☐ Watch ☐ Fix

Parts (Y34): Ask your parts supplier for the OE part number for this VIN.

FACTORY MAINTENANCE DUE BY 161,000 MI (ASK FOR RECORDS)

Spark plugs · every 105,000 mi · was due at 105,000 mi (check records) · $249 ☐ Done (records) ☐ Due ☐ Quoted

Engine coolant · first at 60,000 mi, then every 30,000 mi or 2 years · was due at 120,000 mi and by age (check records) · From $179 ☐ Done (records) ☐ Due ☐ Quoted

C · ALSO REPORTED FOR THE 4.5L VK45DE V8, QUICK CHECKS

- **Steering / brakes** (44 complaints): Steering and brake complaints (FX45 caliper bolt and propeller shaft bolt recalls 03V-476, 03V-164); not engine faults.
- **Air bags** (37 complaints): Air bag complaints, including Takata inflator recalls on later cars; not engine faults.
- **Seats** (25 complaints): Seat complaints (2006 M45 driver seat leaning); not engine faults.
- **Unintended acceleration / cruise** (10 complaints): Scattered unintended-acceleration and cruise-control complaints with no bulletin or recall pattern beyond the pedal sensor recall.

WHAT TO SAY AT THE COUNTER (ADVISOR)

1. Stalling while driving: crank and cam position sensors
The 2002 Q45 and 2003 M45 are in recall 03V-455: solder joints on the crank and cam position sensor circuit boards can crack from heat, and the engine can stop without warning or not start. At 131,000 mi your car is in the mileage range where owners report it. Our price is $420, before tax and shop supplies.
Ask: have you noticed engine shuts off while driving, then restarts after a wait, or check-engine light with crank or cam sensor codes?

2. Fuel gauge reads high, car runs out of fuel and stalls (recall 12V-088)
A circuit board in the 2003–2004 M45 instrument cluster can fail so the fuel gauge reads more fuel than is in the tank. Owners report it at all mileages, so it is worth a look at every visit. A recall or warranty extension may pay for it: we check the VIN.
Ask: have you noticed fuel gauge stuck at one level or reading full after a long drive, or range much shorter than the gauge suggests?

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.

Reference only. Follow Infiniti repair procedures and your shop's judgment.