SEA

Springfield Euro Auto EXAMPLE SHOP

service@springfield-euro-auto.example

TECHNICIAN WORKSHEET · S54
RA-S54-N12345-20261027

2004 BMW M3 · E46 M3 coupe · RWD

WBSBL93454PN12345

ODOMETER IN	DOOR-JAMB BUILD (MM/YY)	RO #	TECHNICIAN / DATE
96,000			

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

14V-428 · Passenger air bag inflator (do not drive) ☐ Open ☐ Done ☐ N/A

15V-318 · Driver air bag inflator (do not drive) ☐ Open ☐ Done ☐ N/A

20V-018 · Air bags · passenger inflator ☐ Open ☐ Done ☐ N/A

B · INSPECTION POINTS, IN PLAN ORDER

1. Rod bearings

Now · Past the range (Reported failures 60k–80k, often without warning)

Oil analysis (lead, copper) ☐ OK ☐ Watch ☐ Fix

Borescope ☐ OK ☐ Watch ☐ Fix

Bearings: original / replaced at ___ mi

Scan for: Oil pressure codes

Parts (E46): Ask your parts supplier for the OE part number for this VIN.

2. VANOS hub tabs and solenoids

Watch · Any mileage (No mileage figure)

VANOS hub condition ☐ OK ☐ Watch ☐ Fix

Solenoid function ☐ OK ☐ Watch ☐ Fix

Scan for: VANOS codes

Parts (E46): Ask your parts supplier for the OE part number for this VIN.

3. Rear subframe mounts / trunk floor cracks (M3)

Watch · Any mileage (worse on lowered or tracked cars)

Cracks at the mounting points ☐ OK ☐ Watch ☐ Fix

Cracks: none / hairline / open

Parts (E46): Ask your parts supplier for the OE part number for this VIN.

4. SMG II pump (SMG cars)

Watch · Any mileage (No mileage figure)

SMG pump run time ☐ OK ☐ Watch ☐ Fix

Scan for: SMG codes

Parts (E46): Ask your parts supplier for the OE part number for this VIN.

5. Cooling hoses and tank (higher-mileage cars)

Watch · Any mileage (Age-related)

Hose condition ☐ OK ☐ Watch ☐ Fix

Pressure test ☐ OK ☐ Watch ☐ Fix

Parts (E46): Ask your parts supplier for the OE part number for this VIN.

FACTORY MAINTENANCE DUE BY 126,000 MI (ASK FOR RECORDS)

Brake fluid · every 2 years · $149 ☐ Done (records) ☐ Due ☐ Quoted

C · ALSO REPORTED FOR THE S54, QUICK CHECKS

WHAT TO SAY AT THE COUNTER (ADVISOR)

1. Rod bearings

Rod bearings wear prematurely, which enthusiast sources blame on BMW's bearing sizing, and a spun bearing can destroy the engine. At 96,000 mi your car is past the usual range, so if the original part is still fitted it is worth checking. Our price is $3,300, before tax and shop supplies.

Ask: have you noticed ticking or knock, or bearing material in an oil analysis?

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.
