SEA

Springfield Euro Auto EXAMPLE SHOP

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TECHNICIAN WORKSHEET · S55
RA-S55-123456-20261027

2016 BMW M3 · F80 M3 sedan · RWD

WBS8M9C56GK123456

ODOMETER IN	DOOR-JAMB BUILD (MM/YY)	RO #	TECHNICIAN / DATE
64,000			

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

18V-713 · Power train · driveline · driveshaft — ☐ Open ☐ Done ☐ N/A

16V-653 · Structure · frame and members — ☐ Open ☐ Done ☐ N/A

15V-782 · Power train · driveline · driveshaft — ☐ Open ☐ Done ☐ N/A

B · INSPECTION POINTS, IN PLAN ORDER

1. Electric water pump + thermostat

Now · Inside the range (60k–100k)

Pump original? invoice or date stamp — ☐ OK ☐ Watch ☐ Fix

Cooling system and intercooler pressure test if coolant loss — ☐ OK ☐ Watch ☐ Fix

Pump: original / replaced at ____ mi

Scan for: Coolant pump fault codes, Low coolant

Parts (F80): Ask your parts supplier for the OE main water pump and thermostat for this VIN; S55 cooling parts differ from the N55's.

2. Spark plugs & ignition coils

Now · Inside the range (Every 30k; sooner if tuned)

Plug age / last service record — ☐ OK ☐ Watch ☐ Fix

Coils original? — ☐ OK ☐ Watch ☐ Fix

Plugs last done at ____ mi

Scan for: Misfire codes, any cylinder

Parts (F80): BimmerWorld ignition service package S55-N55-IGN-KIT (6 Delphi coils + 6 genuine BMW ZMR5TPP330 plugs)

3. Rod bearing wear

Check now · Inside the range (Owner sources: 60k–80k)

Oil analysis: copper / lead trend — ☐ OK ☐ Watch ☐ Fix

Bottom-end noise at idle and under load — ☐ OK ☐ Watch ☐ Fix

Oil analysis Cu ____ ppm / Pb ____ ppm

Parts (F80): BimmerWorld rod-bearing gasket and hardware package for F8X S55 (bearings ordered separately by crank code)

4. Crank hub slip

Watch · Any mileage (No warning sign; any mileage)

Timing-correlation codes and adaptation values — ☐ OK ☐ Watch ☐ Fix

Evidence of a hub upgrade (invoice, marked bolt) — ☐ OK ☐ Watch ☐ Fix

Hub: factory / upgraded (kit ____)

Scan for: P0011, P0014, P0016, P0017

Parts (F80): Aftermarket hub kits differ: some need the crank drilled and pinned, others don't. Ask the shop which kit they fit and whether they have the timing tools for the S55.

5. Plastic fuel tank leak

Watch · Any mileage (reports from ~21k)

Fuel odor / wet seam at tank top left (on lift) — ☐ OK ☐ Watch ☐ Fix

EVAP leak codes — ☐ OK ☐ Watch ☐ Fix

Tank: dry / damp / leaking

Scan for: EVAP leak codes

Parts (F80): BMW supplies a revised tank. Ask a BMW dealer to check SIB B01 03 22 coverage for this VIN before paying for a repair.

6. Plastic charge pipe

Watch · Inside the range (30k–70k, sooner if tuned)

Charge pipe cracks / hiss under boost; original or aftermarket ☐ OK ☐ Watch ☐ Fix

Scan for: P0299 (underboost)

Parts (F80): Ask your supplier for the genuine BMW pipe for this VIN, or a CARB-exempt aluminum pipe if your state requires it.

7. Valve cover & oil filter housing leaks

Watch · Inside the range (60k+)

Seep at valve cover, exhaust side ☐ OK ☐ Watch ☐ Fix

Seep at oil filter housing ☐ OK ☐ Watch ☐ Fix

Leak: dry / damp / wet

Parts (F80): Ask your parts supplier for the OE number for this VIN.

FACTORY MAINTENANCE

Not on this report for this car. Check the service records and the maker's schedule (brake fluid, spark plugs, coolant, transmission fluid). ☐ Records checked ☐ Due ☐ Quoted

C · ALSO REPORTED FOR THE S55, QUICK CHECKS

- **Fire / smoke** (9 complaints): Few reports with mixed origins (seat heater, cabin, engine bay). The engine-bay paths we can source are fuel-tank leaks and oil on the exhaust, which are covered above.
- **Driveshaft (recalls 15V-782, 18V-713)** (6 complaints): Covered by two driveshaft recalls (15V-782 and 18V-713) on 2015–2017 M3/M4 builds. Not an engine item: the recall list for the car's model year shows whether it applies.
- **Front knuckle cracks (M4 GTS)** (4 complaints): Reported on the limited-production 2016 M4 GTS. Chassis part, not engine; ask a BMW dealer about the superseded part.

WHAT TO SAY AT THE COUNTER (ADVISOR)

1. Electric water pump + thermostat
The electric main coolant pump fails, often without warning, and the engine overheats. At 64,000 mi your car is in the mileage range where owners report it. Our price is $1,650, before tax and shop supplies. Left until it fails, published repair bills run $2,500–$7,000.
Ask: have you noticed overheat or coolant-temperature warning, or radiator fan running hard after shutdown?

2. Spark plugs & ignition coils
Plugs wear and coils weaken, causing misfires under boost. At 64,000 mi it is due, unless the records show it done. Our price is $620, before tax and shop supplies. Left until it fails, published repair bills run $800–$2,500.
Ask: have you noticed misfire under load, or flashing check-engine light?

3. Rod bearing wear
Connecting-rod bearings wear, especially with long oil-change intervals or hard use. At 64,000 mi your car is in the mileage range where owners report it. Our price is $95, before tax and shop supplies.
Ask: have you noticed knock from the bottom of the engine, or rising copper and lead 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.

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