INSTALLATION DOCUMENT

INCLUDES FITMENT RECORD



TURBOCHARGER

TURBO FITMENT INSTRUCTIONS

Read every section in full before fitting. Incorrect installation can damage the turbocharger.

Online Car parts.co.za

CUSTOMER COPY

RETAIN FOR THE WARRANTY PERIOD

TURBO FITMENT INSTRUCTIONS

This turbocharger is supplied as a replacement for the original part specified for your vehicle. Follow these instructions together with the vehicle and turbocharger manufacturers' workshop procedures, specifications and tightening torques.

A replacement turbocharger can fail if the fault that damaged the previous unit is not corrected, or if contamination or inadequate lubrication occurs during installation. These instructions exist to prevent that.

01 BEFORE ASSEMBLING THE TURBOCHARGER

PERFORM AND RECORD THE FOLLOWING CHECKS

⚠ IMPORTANT

1. Before fitting the new turbocharger, the cause of failure of the previous turbocharger **must be identified and eliminated**, and recorded on the workshop job card and the Fitment Record (pages 7 and 8).
2. The turbocharger must be fitted by a **competent motor vehicle technician** with experience in turbocharger installation, at an identifiable workshop whose details are recorded on the Fitment Record.

An unresolved cause of the previous failure, or incorrect installation, can damage the new turbocharger. If a claim is made, Online Car Parts will assess whether either caused or contributed to the failure.

Customer initial _____ *Technician initial* _____

☐ **Confirm the application:** check that the replacement turbocharger's part number matches the vehicle, engine code and the unit removed, before any fitting work starts.

01 · BEFORE ASSEMBLING THE TURBOCHARGER, CONTINUED

- [ ] **Engine intake system:** check cleanliness and integrity (air filter, intake duct, mass air flow meter, intake manifold, etc.).
- [ ] **Engine boost delivery system:** check cleanliness and integrity (intake manifold, intercooler, EGR system, etc.). Remove all oil, debris and fragments of the previous turbocharger.
- [ ] **Exhaust system:** check cleanliness and that it is free of restriction (exhaust manifold, pipes, catalytic converter, DPF where fitted, muffler, etc.).
- [ ] **Turbo oil supply:** oil pressure and flow must meet the engine and turbocharger manufacturers' specifications for the application. Record the measured pressure, engine speed, oil temperature, measurement point and specification reference on the Fitment Record. Remove any obstruction from the turbo oil inlet and outlet.
- [ ] **Oil drain and crankcase breather (PCV):** confirm the oil drain is clear and unrestricted. Clean the breather system and replace the breather filter where one is fitted, to avoid crankcase backpressure and ensure correct oil flow through the turbocharger.

02 TURBOCHARGER FITTING

Fitting must be performed by a competent motor vehicle technician experienced in turbocharger installation, following the steps below in order.

02 · TURBOCHARGER FITTING, CONTINUED

01 Clean the oil circuit, including the turbo oil feed and return lines.

02 Always **replace the engine oil and oil filter** with the grade and specification required by the vehicle manufacturer. Keep the invoice as supporting evidence.

03 Carefully clean the **intake and exhaust manifolds and hoses.** Any foreign matter entering the turbocharger, even **small particles,** causes **extensive damage.**

04 Remove the **transport plugs and covers** from the turbocharger only immediately before fitting, and keep every opening covered until it is connected.

05 **Replace the oil feed pipe.** A used pipe can carry carbon or debris straight into the new bearings.

KEEP THE INVOICE AS SUPPORTING EVIDENCE

06 Check the oil outlet (return) pipe for obstructions and deformation. Replacement is strongly recommended. A restricted return can force oil past the turbocharger seals.

07 Use **new gaskets and seals** as specified, and tighten all fasteners to the manufacturer's **specified torques.** Never use liquid gasket or sealant on turbo oil connections.

02 · TURBOCHARGER FITTING, CONTINUED

08 **Before fitting the turbocharger,** verify that oil reaches the turbo position. With the oil feed pipe **disconnected** and directed into a **suitable drain tray**, crank the engine **without starting it**, using the vehicle manufacturer's approved method and within its cranking time limits, until clean oil flows. Residual dirty oil and debris must flow into the tray and **never into the turbo.**

09 Fit the turbocharger. Fill its oil inlet with new, clean engine oil and turn the shaft by hand to lubricate the bearings. **Never fit a dry turbocharger.**

10 Connect the oil feed pipe and crank the engine without starting it, using the approved method and cranking limits, until oil reaches the turbocharger at a constant rate.

11 **Before start-up,** confirm that every oil, coolant (where fitted), intake, boost, exhaust, vacuum and electrical connection is complete and secure, and that the engine is restored to its normal starting condition.

12 Start the engine and let it idle for 5 minutes, checking for oil, air and exhaust leaks. **Avoid sudden acceleration** while the engine is cold.

IDLE RUN
5 min

13 Where an actuator is fitted, check its operation at the stage and by the procedure the manufacturer prescribes, which may require the engine to be running. **Never force an electronic actuator by hand**, and do not adjust any actuator setting.

14 Switch off, allow the oil to settle, and **recheck the engine oil level.** Top up to the correct level.

15 **Never switch off** the engine immediately after acceleration or hard driving. The oil pump stops at once while the rotor shaft keeps spinning without lubrication, damaging the turbocharger. Let the engine idle before switching off. **Advise the customer of this.**

03 WARRANTY AND CLAIMS

YOUR STATUTORY RIGHTS

Nothing in this document excludes or limits rights provided by applicable consumer protection legislation, including the Consumer Protection Act 68 of 2008.

ONLINE CAR PARTS WARRANTY

In addition to your statutory rights, Online Car Parts warrants this turbocharger against defects in materials and manufacture for the period below.

WARRANTY PERIOD	STARTS FROM
6 months	**OCP invoice date**

The commencement date of this additional OCP warranty does not alter any statutory period calculated from delivery under applicable consumer protection legislation.

WHAT CAUSES TURBOCHARGER DAMAGE

Incorrect installation, contamination, inadequate lubrication, misuse or unauthorised modification may cause turbocharger damage. Where it is established that one of these caused the damage, that damage is not a manufacturing defect. Claims will be assessed using the available evidence, the applicable warranty terms and the law.

MAKING A CLAIM

1. Contact Online Car Parts with your invoice number as soon as a fault is suspected, and where practical before the turbocharger is removed.
2. Return the turbocharger complete and, wherever possible, unopened. Opening or dismantling the unit can destroy the evidence needed to assess it.
3. Supply the supporting evidence listed below. If any item is unavailable, provide whatever alternative evidence you have. Missing paperwork does not, by itself, determine whether a product is defective.
4. Online Car Parts may have the unit inspected and the cause of failure analysed before the claim is decided. You will receive the outcome, with the reasons for it, in writing.

SUPPORTING EVIDENCE TO KEEP

- ☐ Completed Fitment Record (pages 7 and 8)
- ☐ Workshop job card
- ☐ Invoices for parts and fluids replaced
- ☐ Workshop and technician details

04 FITMENT RECORD

To be completed by the fitting technician, in ink. Write "N/A" where an item does not apply. Keep a copy with the job card.

VEHICLE AND TURBOCHARGER

VEHICLE REGISTRATION

VIN

MAKE AND MODEL

ENGINE CODE

ODOMETER AT FITMENT (KM)

FITMENT DATE

TURBO PART NUMBER

TURBO SERIAL NUMBER

ONLINE CAR PARTS INVOICE NUMBER

APPLICATION CONFIRMED ☐ Yes ☐ No

WORKSHOP AND TECHNICIAN

WORKSHOP NAME

WORKSHOP TELEPHONE

WORKSHOP ADDRESS

WORKSHOP EMAIL

TECHNICIAN NAME

TECHNICIAN QUALIFICATION OR EXPERIENCE

FAILURE DIAGNOSIS

CAUSE OF THE PREVIOUS TURBOCHARGER FAILURE, AND HOW IT WAS ESTABLISHED

CORRECTIVE ACTION TAKEN

04 · FITMENT RECORD, CONTINUED

SPECIFICATIONS APPLIED

SPECIFICATION REFERENCE (MANUAL OR DATA SOURCE)

MANUFACTURER BULLETINS APPLIED

OIL PRESSURE MEASUREMENT

MEASURED PRESSURE (KPA)

ENGINE SPEED (RPM)

OIL TEMPERATURE (°C)

MEASUREMENT POINT

SPECIFIED VALUE (KPA)

ENGINE OIL GRADE USED

PARTS AND FLUIDS REPLACED

ITEM	REPLACED	INSPECTED AND RETAINED	N/A	INVOICE NUMBER
Oil feed pipe				
Engine oil				
Oil filter				
Breather filter				
Oil return pipe				
Gaskets and seals				
Air filter				

COMMISSIONING CHECKS

- ☐ Transport plugs removed before fitting
- ☐ Actuator operation checked, or N/A
- ☐ Engine oil level rechecked
- ☐ All connections confirmed before start-up
- ☐ Oil primed before first start
- ☐ 5-minute idle with no leaks
- ☐ Customer advised on shutdown practice

TECHNICIAN DECLARATION

I fitted this turbocharger in accordance with these instructions, and the information recorded is true and correct.

SIGNATURE

DATE

WORKSHOP STAMP

CUSTOMER ACKNOWLEDGEMENT

I have received and read these fitment instructions and warranty terms.

CUSTOMER NAME

SIGNATURE

DATE