

Installation kits options 810358-5005S

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APPLICATION

Mazda (GT12 + GT17)



RELATED PART NUMBERS

810358-5005S / 810356-5001S
810357-5003S / 906760-5001S
898981-5001S / 898982-5001S



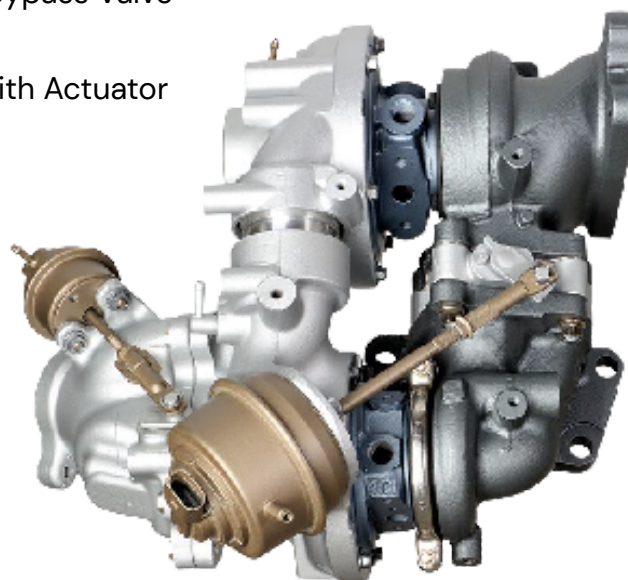
IMPORTANT

New service replacement options are now available for turbocharger 810358-5005S.

Individual components can now be ordered separately, allowing replacement of specific parts without replacing the complete twin-turbo assembly.

Refer to the following page for the available service components.

- 810358-5005S – Complete Twin Turbo Assembly
- 810356-5001S – HP Turbocharger
- 810357-5003S – LP Turbocharger
- 906760-5001S – HP Turbocharger with Turbine Bypass Valve
- 898981-5001S – Turbine Bypass Valve Kit
- 898982-5001S – Compressor Bypass Valve Kit with Actuator



NEED TECHNICAL SUPPORT?

Unsure which turbocharger you need or have a technical query?

Our experienced technical team is on hand to help identify the correct turbocharger and provide expert advice before you order.



Call: 0148 345 345



WhatsApp: 07760 518 557

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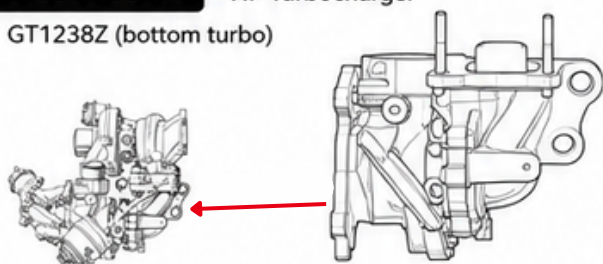
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INSTALLATION KIT COMPONENTS:

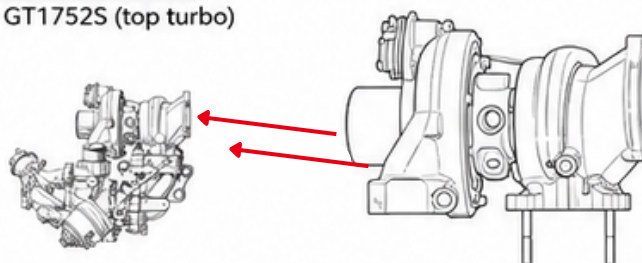
810356-5001S – HP Turbocharger

GT1238Z (bottom turbo)

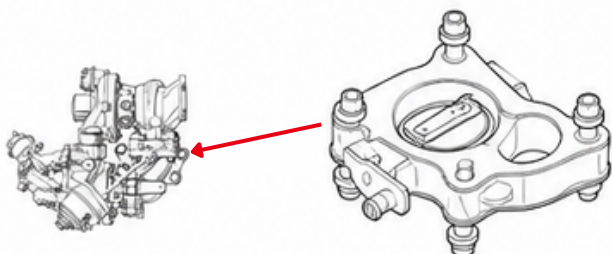


810357-5003S – LP Turbocharger

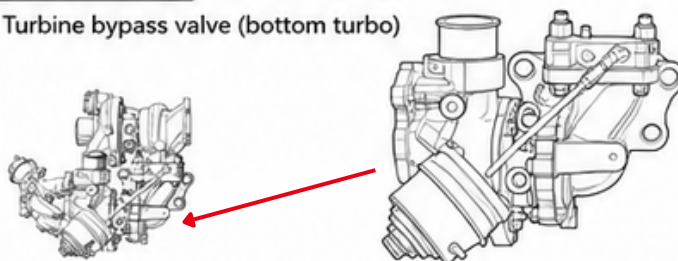
GT1752S (top turbo)



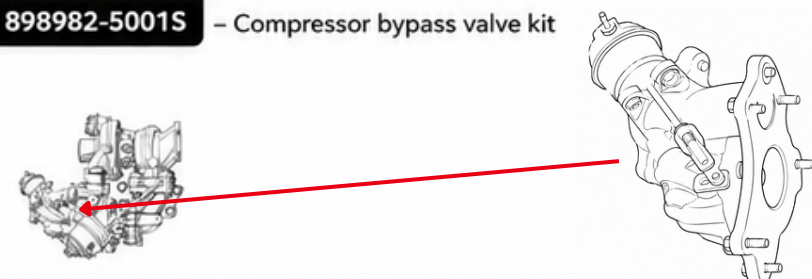
898981-5001S – Turbine bypass valve kit



906760-5001S – HP Turbocharger with Turbine bypass valve (bottom turbo)



898982-5001S – Compressor bypass valve kit



When replacing turbocharger 810358-5005S, ensure all required service components are ordered before commencing the repair.

Turbine Bypass Valve Actuator Calibration Procedure:

Actuator Setup

Re-use the actuator from the original turbocharger.

Step 1 – Set the Closed Position

1. Apply 600 ± 5 mBar vacuum until the bypass valve reaches the fully closed mechanical stop.
2. Set the actuator stroke to 0 mm at the fully closed position.

Step 2 – Adjust the Rod End

1. Apply 372 ± 5 mBar vacuum.
2. Adjust the rod end until the actuator stroke measures 0.5 ± 0.1 mm.
3. Tighten the rod-end nut to 5.6–6.8 Nm.

Step 3 – Verify the Adjustment

1. Apply 600 ± 5 mBar vacuum again.
2. Slowly reduce the vacuum until the actuator stroke reaches 0.5 ± 0.1 mm.
3. Confirm the vacuum reading is 372 ± 10 mBar.

Torque Specifications

Component	Tightening Torque
Turbine Bypass Valve Nuts	20–25 Nm
Compressor Bypass Valve Bolts	8–10 Nm
Actuator Nuts	5.6–6.8 Nm

Assembly Notes

Cold Decoupler

Apply P-80 Emulsion (or equivalent) to the cold decoupler prior to assembly.

Compressor Bypass Valve Bolts

Apply Loctite® 271 (or equivalent) to the bolt threads before final tightening.