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**To:** General Managers, Service Managers, Warranty Managers, Parts Managers, Service Technicians  
**From:** William Cheek – Director of Service Market Engineering  
**Date:** January 18, 2023  
**Subject:** Turbo Compound Support Tool  
**Bulletin:** SNM23-001

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A new Turbo Compound (TC) support tool has been recently shipped to all Mack dealerships. The new TC Support Tool (p/n 88800826) was developed to create a more controllable work environment and improve the efficiency of repairs for all Timing Gear Plate jobs. Essential tool bulletin [STB22-005M](#) was previously released that includes repair instructions and a link to a [short training video](#).

On January 23rd, 2023, Impact repair instructions will be updated to reflect the use of the new tool. The Standard Repair Time (SRT) will also be updated to reflect the new time of replacing the timing gear plate, without removing the TC unit. Note, this is only applicable to TC Engines.



# Special Tools Bulletin

To: Service Managers  
Parts Managers  
Technicians

Region:  U.S.  
 CAN

Bulletin:  
Date: December 21, 2022  
Valid to: December 31, 2023  
Action Required?  Yes  No

From: Tyler Griffin – Proprietary Systems & Components Specialist.  
Subject: Mack Essential Tool Shipment

The tools listed below will be shipped **automatically** to all Mack dealers (full-line, parts & service, and satellite locations) from the PDC. These tools are necessary to service the Mack product. Each dealer will be invoiced on **ET1201M**. **This tool is used to hold the Turbo Compound in place while performing Timing Gear Plate repairs. Repair instructions and videos are below.**

Part Number	Description	Quantity
88800826	13 L Turbo Compound Support Bracket	1

Please advise your parts department staff to expect these Essential Tools for the Service Department.

You may order additional Essential Tools; pricing is available on the Parts System.

## Contact Information

If you have questions, please contact your District Service Manager.



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## Essential Special Tool 88800826

**Turbo Compound Support – *while performing  
TGP (Timing Gear Plate) oil leak repairs***

## Instructions:

1. Remove the starter.
2. Remove the Turbo Compound oil feed line.
3. Remove the EGR heat shield.
4. Remove top V-band clamp for the EGR cooler's hot pipe.
5. Remove bottom V-band clamp for the EGR cooler's hot pipe.
6. Remove the EGR cooler's hot pipe.
  - A. Make sure to remove the EGR cooler rear seal.
7. Disconnect and set aside the following line sets:
  - A. Aftertreatment Hydrocarbon Injector
  - B. Exhaust gas pressure line
  - C. Engine brake
  - D. Turbo compound buffer supply
8. – Unplug camshaft sensor harness.
9. – **IMPORTANT:** There is a key fastener/bolt that threads in the timing gear plate. This fastener/bolt is hidden and must be removed prior to installing the Turbo compound tool.
10. – Here you see the Turbo compound tool and its mounting hardware.
  - A. 2-3 fasteners depending on EM level.
11. – First you will remove the 2-exhaust heat shield mounting bolts, and Turbo Compound lifting eye bolt.
  - A. 2-3 fasteners depending on EM level.
12. – Next secure the Turbo Compound tool bracket to the cylinder head, utilizing the bolt holes from the previously removed exhaust heat shield bolts.
13. – At this point you will need to prep the threaded rod with one of the nuts from the hardware kit. You will thread one of the nuts about  $\frac{1}{4}$  of the way up on the threaded rod.
14. – Securing the Turbo Compound tool mounting bracket to the Turbo Compound housing.
  - A. Slide the supplied threaded rod through the slotted hole in the Turbo Compound tool mounting bracket.
  - B. Thread the rod in the bolt hole from the previously removed Turbo Compound lifting eye bolt, thread the rod until it bottoms out.
  - C. Secure the rod to the Turbo Compound housing by running the previously installed nut flush with the housing, and slightly tighten.
  - D. Install the second nut above on the threaded rod above the Turbo Compound tool mounting bracket. Thread nut down flush with the mounting bracket and slightly tighten.
- 15– Tool Removal:
  - A. Loosen both nuts on the threaded rod.
  - B. Unthread rod from the Turbo Compound lifting eye bolt hole. You do not have to fully remove the threaded rod from the mounting bracket.
  - C. Remove both Turbo Compound tool mounting bracket bolts at cylinder head.



**Please see attached training video that can also be found in TDP under training videos.**

[TC Bracket Mack 1 - YouTube](#)