



Service Bulletin

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Distribution: **Heil Dealers, Heil Technical Services, Heil Customer Care**
Subject: **Transmission Mounted Power Take-Off (PTO) Inspection and Preventive Maintenance**

NOTE: READ THIS BULLETIN IN ITS ENTIRETY BEFORE BEGINNING ANY REPAIR WORK.

Due to normal torsional vibrations of transmission mounted Power Take-Offs (PTOs), it is important that Service Technicians include the PTO/transmission interface in their standard inspection and maintenance schedules. If a PTO Inspection and Preventive Maintenance schedule is not followed, it is possible that the PTO mounting screws can come loose, resulting in transmission fluid leaks between the PTO and transmission and potential damage to the PTO or drivetrain.

This Service Bulletin describes the MONTHLY (200 HOURS OF OPERATION) Preventive Maintenance procedure to check the torque on the PTO mounting screws and tighten to the proper torque specification, if needed. This information will be added to the Preventive Maintenance charts in all Heil Service Manuals.

1. PLANNING INFORMATION

A. Products Affected

This bulletin applies to any Heil unit with a transmission mounted PTO.

B. Compliance

Each Dealer may perform these tasks as outlined in this Service Bulletin on an as needed basis. The tasks outlined in this Service Bulletin must be performed by a qualified technician. There will be no warranty reimbursement for Inspection and Preventive Maintenance tasks described in this Service Bulletin.

C. Manpower

The labor effort required to accomplish the tasks in this Service Bulletin is shown in **Table 1**.

Table 1. Manpower

TASK	ESTIMATED MAN HOURS
PTO/Transmission Interface Inspection/Preventive Maintenance	0.5

D. Tools, Materials and Parts Needed

The tools and materials necessary to perform the Inspection/Preventive Maintenance are shown in **Table 2.**

Table 2. Tools and Materials

Item	Part Number	Application
Personal Protective Equipment	Commercially available	Safety protection as required by employer
Wrench/Socket Set	Commercially available	To tighten PTO mounting 10mm 12 pt. head screws
Torque Wrench	Commercially available	To properly tighten PTO mounting screws
Marker	Commercially available	To make witness marks on the PTO mounting flange

2. PREPARING THE UNIT AND WORK AREA

Make sure that the unit is in **Lock-Out/Tag-Out mode** before performing re-work. Refer to and follow your company's Lock-Out/Tag-Out policies and procedures. At a minimum, refer to and follow the Lock-Out/Tag-Out procedure found in your Heil Service Manual. Always wear appropriate Personal Protective Equipment as required by your employer (but to always include at a minimum, safety glasses and OSHA approved hard-toed boots) when repairing a unit or performing scheduled maintenance on a unit. Clear the work area around the unit of all unnecessary people and equipment.

3. CORRECTIVE ACTIONS

With the unit prepared as described in Section 2 of this Service Bulletin, in **Lock-Out/Tag-Out mode with the hydraulic pressure relieved**, carefully follow the steps below.

A. PTO/Transmission Interface Inspection/Preventive Maintenance (MONTHLY/200 HOURS OF OPERATION)

- (1) Inspect for transmission fluid leaking from the PTO/transmission interface. Thoroughly clean around this area.
- (2) Using a torque wrench, check the PTO mounting screws. If they are set less than 45 FT-LBS, tighten to 45 FT-LBS.
- (3) Using an oil-resistant marker, add a witness mark on each screw head and across the PTO mounting flange. For future inspections, this will help identify if the PTO mounting screws loosen over time. See **Figure 1.**



Figure 1. Witness Marks on PTO Mounting Screws and Flange



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- (4) Take the unit out of Lock-Out/Tag-Out mode and operate unit functions.
- (5) Check for transmission fluid leaks around the PTO/transmission interface. If there are leaks, contact Technical Services.
- (6) When there are no transmission fluid leaks, place the unit back into service.

If you have any questions regarding the information detailed in this Bulletin, please contact Heil Technical Service at 866.310.4345.

*Heil Environmental Service Bulletin procedures are intended for use by professional technicians, NOT a "do-it-yourselfer." They are written to inform experienced technicians of conditions that may occur on some units, or to provide information that could assist in the proper servicing of a unit. Properly trained technicians have **access to and are familiar with the applicable Heil Operation Manual and Heil Parts and Service Manuals** and have the equipment, tools, safety training, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the Bulletin instructions apply to your unit, or that your unit will have that condition. See your Heil Dealer to determine whether your unit may benefit from the information in this Service Bulletin.*

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