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Coupler Ear-to-Lugging Interference

Identification, Correction & Acceptance Guide

Product: TRK Coupler

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1) Document Summary:

This document outlines procedures to identify and resolve interference between TRK coupler ears and attachment lugging, and how to verify proper clearance after modification.

2) The Problem:

When a TRK coupler is mounted on an attachment, the coupler ears might experience interference with the attachment lugging. This interference may cause the coupler ears to not seat properly with the attachment which might result in improper alignment or engagement of the attachment pins.

3) Why interference occurs:

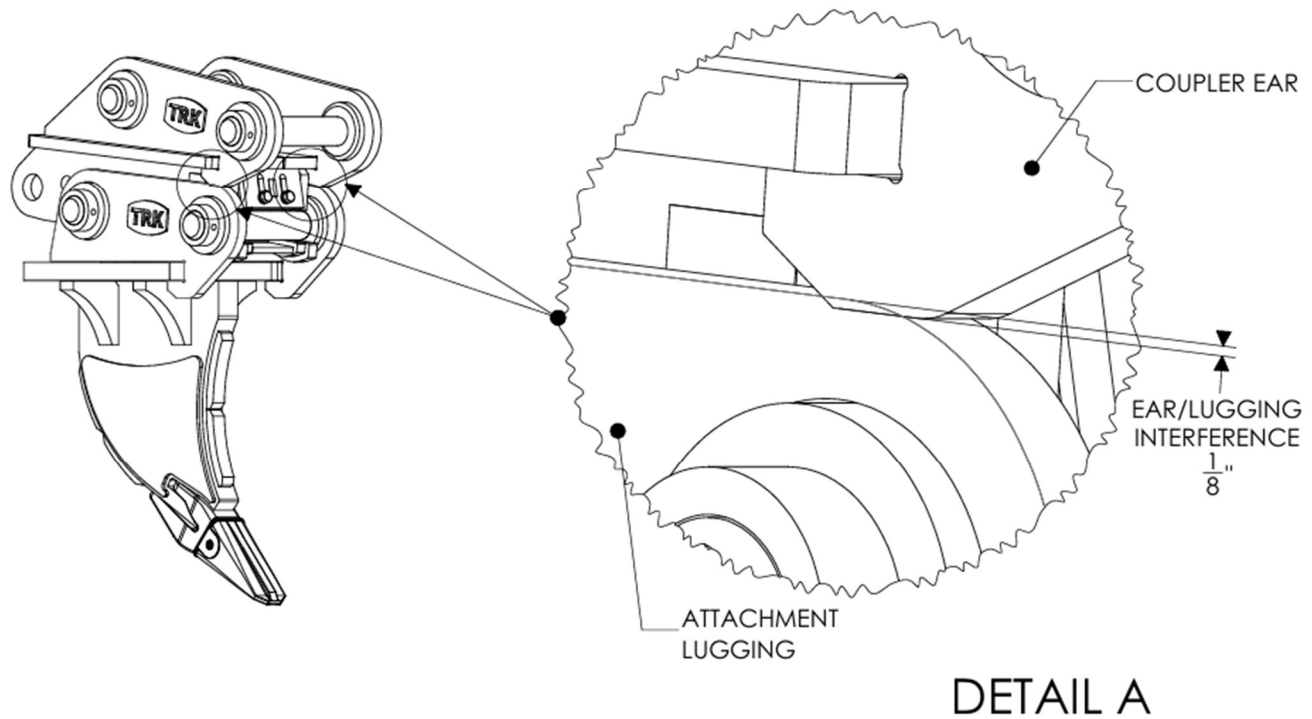
TRK couplers are designed to accommodate a variety of attachments, since attachment lugging dimensions vary, in some combinations, the attachment's lugging thickness exceeds the available spacing between width of the strap underneath the baseplate on the coupler ears causing the ears to contact the attachment lugging resulting in interference.

It is important to keep an adequate amount of material on the coupler ears because this affects both the structural integrity and safe operation of the coupler. As the attachment dimensions differ from manufacturer to manufacturer and from model to model, it is not feasible to produce the coupler ears to fit every possible attachment arrangement. If too much material were to be cut away during manufacturing to allow for all possible lugging widths, the thickness of the coupler ears could drop below an acceptable level. For that reason, the coupler is made with enough material so that it can be altered as needed to suit the particular attachment while still maintaining the necessary structural integrity.

4) How to Identify ear to lugging:

Interference can be identified by checking the clearance below the baseplate on the coupler ears and the top face of the attachment lugging. Any contact between these faces before the coupler is fully seated indicates interference.

Figure 1 illustrates a typical coupler ear-to-lugging interference condition



	NAME	DATE	COUPLER EAR-TO-LUGGING INTERFERENCE	
	DRAWN BY	AMMAR R		
	CHECKED BY	-	-	MODEL CODE:
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			ITEM NUMBER	
			MACHINE	
			REV	

Figure 1 - Detail A showing typical Interference Condition

5) Corrective Procedure:

If interference is present between the two surfaces, it can be corrected by removing or grinding the minimum amount of material on the coupler ears necessary to eliminate the interference and allow the coupler to seat correctly on the lugging.

Figure 2 illustrates the corrected condition

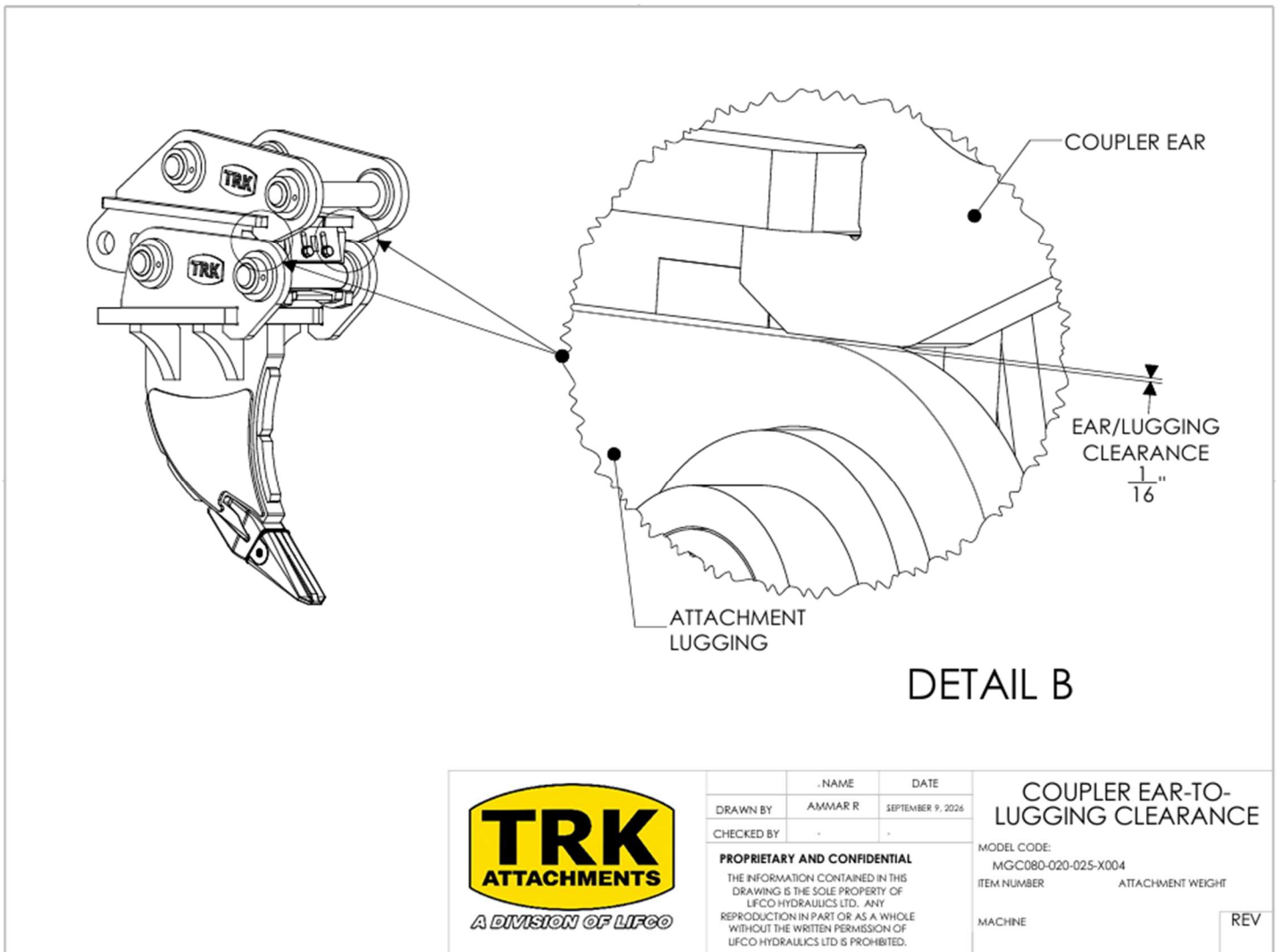


Figure 2 - Detail B showing the corrected Clearance Condition

6) Required Clearance:

After modification, ensure that there is adequate clearance between the coupler ear and the attachment lugging. The coupler should now seat correctly on the attachment, and the attachment pins should align and engage without interference

7) When to contact TRK:

Contact TRK Attachments, if there are any doubts or questions as to the amount or location of material to be removed or if the coupler still does not seat correctly after modification.