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# **TR86, TR87, TR88 COMBINE REPAIR MANUAL CONTENTS**

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# SECTION 5

## ENGINE PTO SHAFT

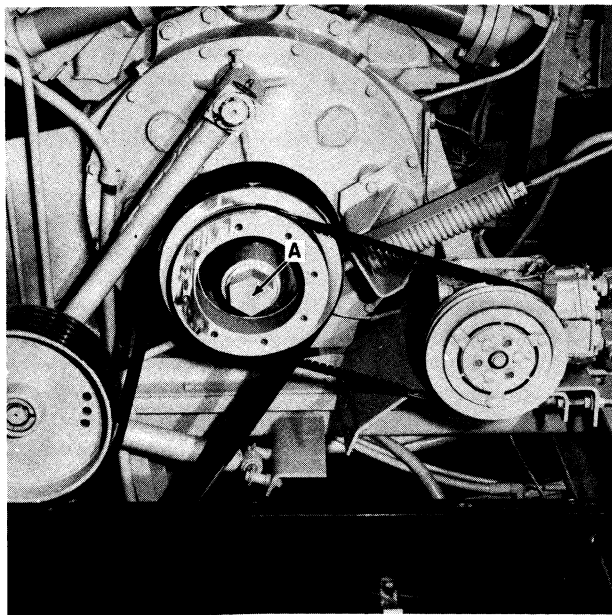


FIGURE 5-1

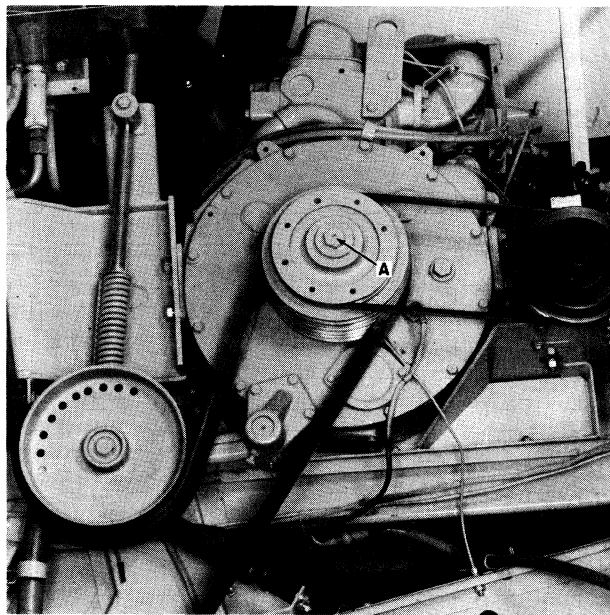


FIGURE 5-2

### INTRODUCTION

A bell housing is attached to the rear of the engine. Inside the bell housing, a PTO shaft with a flex plate bolted to the engine flywheel transmits power to the power band main drive belt through an engine drive sheave.

This manual is divided into two sections. Section 5A explains removal, disassembly, inspection, assembly and installation of the Caterpillar engine PTO shaft, A, Figure 5-1. Section 5B explains the removal, disassembly, inspection, assembly and installation of the Ford Engine PTO shaft, A, Figure 5-2.

# SECTION 5A

## ENGINE PTO SHAFT

### CATERPILLAR ENGINE (TR86 BELOW SERIAL NUMBER 527531)

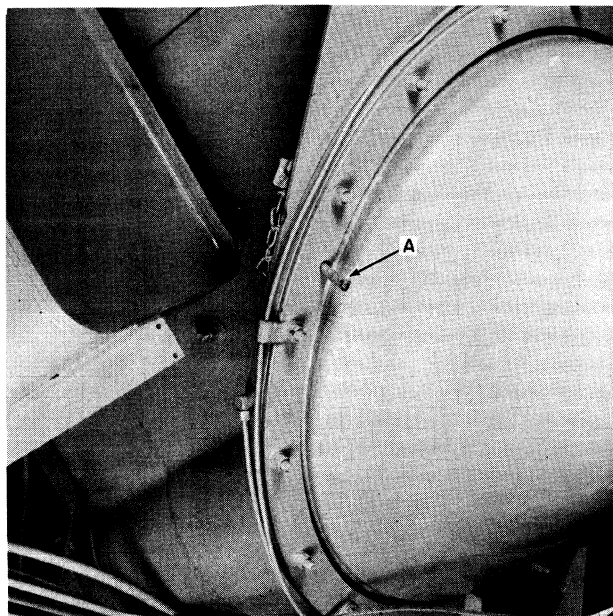


FIGURE 5A-1

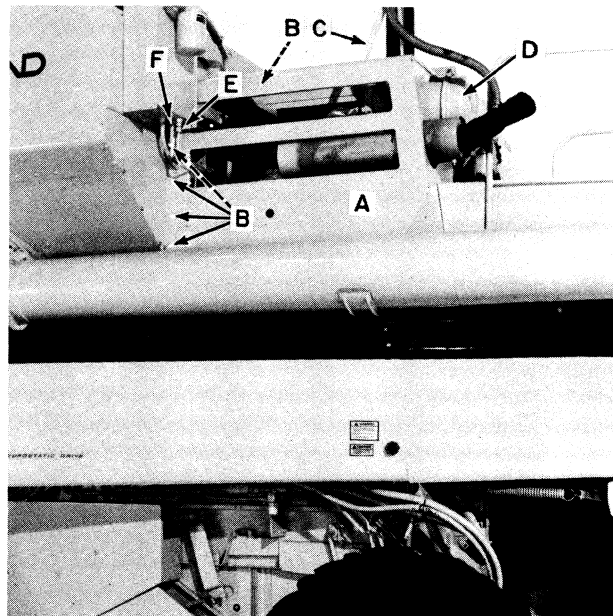


FIGURE 5A-2

#### BELL HOUSING

##### Removing the Bell Housing



**WARNING: DO NOT USE AUGER TUBE AS A STEP OR PLATFORM.**

1. Extend the unloading auger to the fully extended position and install the safety pin, A, Figure 5A-1.



**CAUTION: BE SURE THE UNLOADING AUGER SAFETY PIN IS IN PLACE BEFORE WORKING IN THE ENGINE PTO SHAFT AREA.**

2. Remove shield, A, Figure 5A-2, by removing the 5/16" bolts at B and 3/8" bolts on brace, C. The dust bowl, D, must be removed to allow the shielding to slide off. Tubes, E and F, will also have to be removed. To remove these tubes, the hydrostatic reservoir must be drained.

**NOTE: Drain hydrostatic oil into a clean container so the oil can be reused.**

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