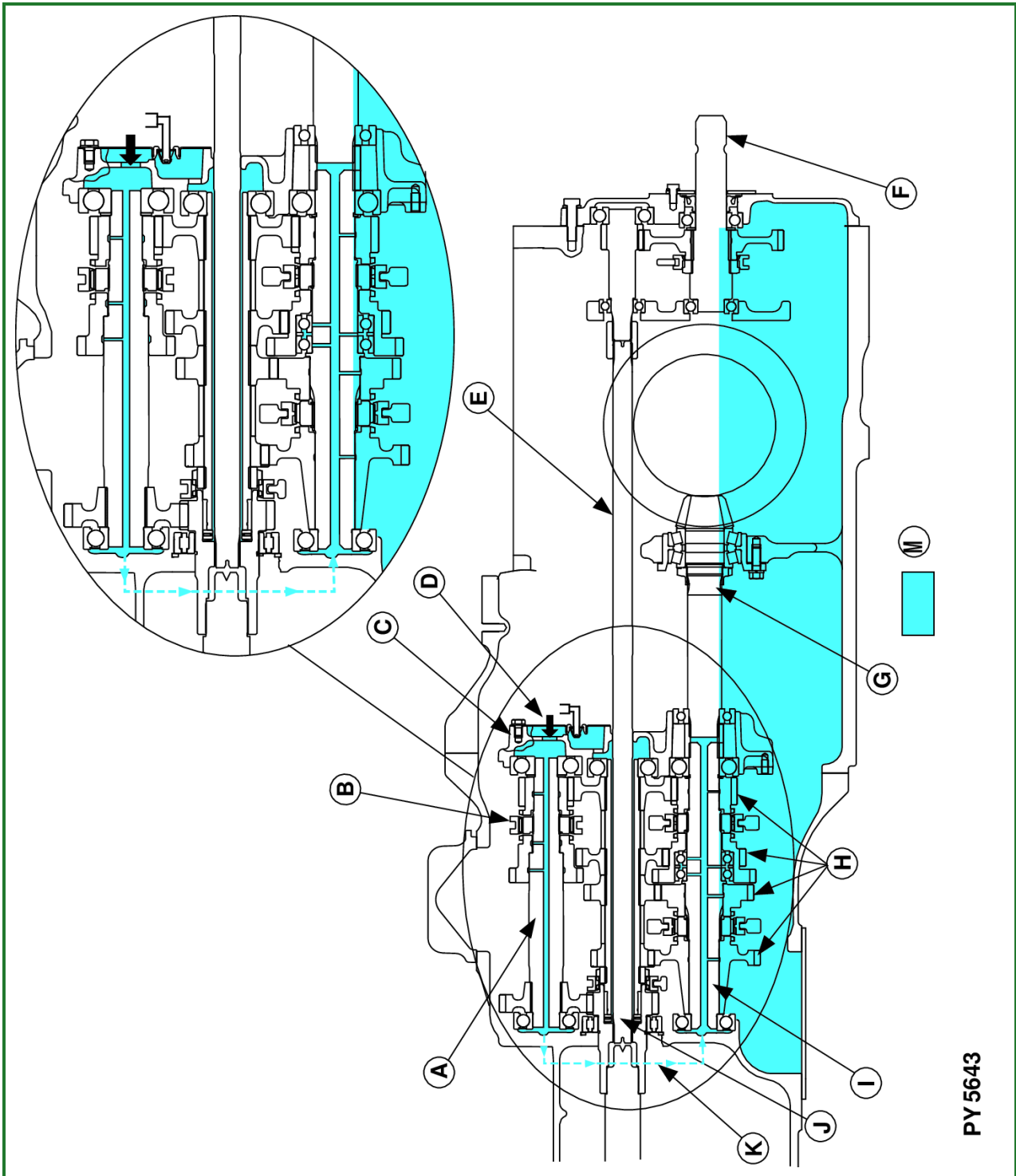


Transmission Lubrication System (Manual Steering Tractor)



PY 5643

PY5643-UN: Trans. Lubrication (manual steering)

LEGEND:

- A - Range Reduction Shaft
- B - A Range and Reverse Drive Gear Shift Collar
- C - Bearing Housing
- D - Return Oil from Rockshaft Control Valve
- E - PTO Drive Shaft
- F - PTO Shaft
- G - Differential Drive Shaft
- H - Drive Gears
- I - Drive Shaft
- J - Driven Shaft

K - Oil Gallery

L - Pressure Free Oil

THEORY OF OPERATION:

During operation, pressure free oil in the transmission case is thrown up by the turning drive gears (H) to lubricate the transmission components. Return oil from the rockshaft control valve (D) enters the left side of the transmission case via the transmission lubrication line.

A passage in the transmission case intersects the bearing bores at the end of range reduction shaft (A) and transmission top driven shaft (J) and drive shaft (I). The lube oil flows through the hollow range reduction shaft (A).

Lube oil also flows down the transmission top driven shaft (J) to the B range gear.

Also lube oil (L) flows down from range reduction shaft (A) to drive shaft (I) through transmission housing oil gallery (K) and in transmission drive shaft oil goes to drive gears through holes.

As oil coming from rockshaft control valve is freely falling on open accumulator case, relief valve is not provide in case of this kind of this lubrication system

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