Rear Differential Lock Operation
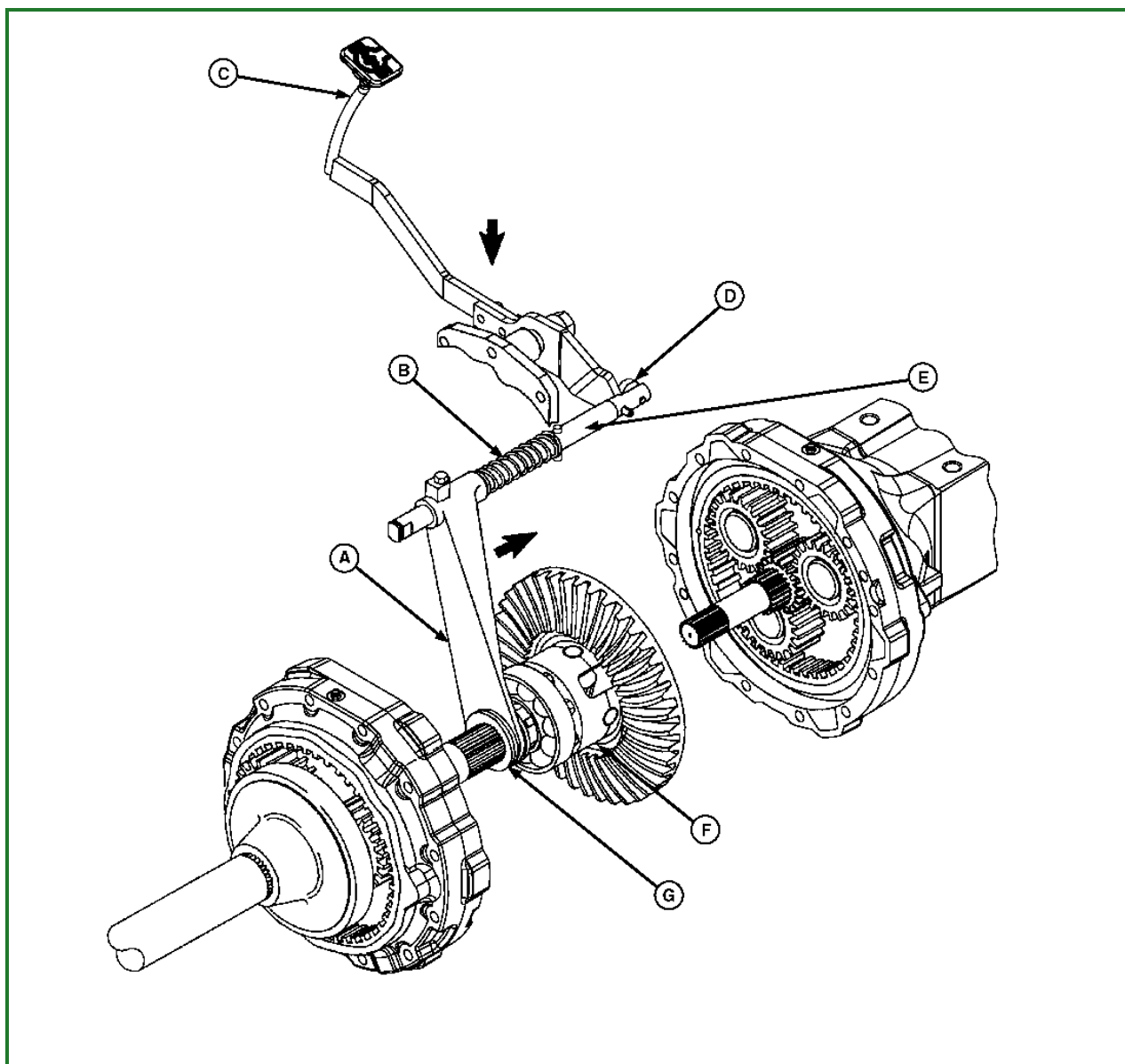
LV9267-UN: Differential Lock Operation

   LEGEND:

A - Fork

B - Spring

C - Differential Lock Pedal

D - Roller

E - Differential Lock Shaft

F - Differential Carrier

G - Differential Lock Collar

When differential lock pedal (C) is pressed downward, a ramp on the end of pedal pivots against a roller (D) on the end of differential lock shaft (E), and the shaft is forced to the right. As the shaft moves, spring (B) is compressed and fork (A) forces differential lock collar (G) toward differential carrier (F).

When the pins on the collar align with the slots in the carrier, the pins will slip into the slots. Since the collar is splined to the right differential output shaft, no differential action will take place and both output shafts turn equally.

Unequal traction will keep the lock engaged. When traction equalizes, lock will disengage itself by spring action. If lock does not disengage, depress one brake pedal and then the other.

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