INDEXING ACTUATOR OPERATION
UNIT SHOWN IS CLOCKWISE ROTATION, COUNTER CLOCKWISE UNIT IS MIRROR IMAGE
"REAR VIEWS"

1) DRIVE

PAWL RIDES ON RATCHET
SPRING PUSHES PAWL
CAM TURNS WITH GEAR
RACK MOVES
PISTON
PISTON SEAL

2) LOCKED

RATCHET IS KEYED TO SHAFT
PAWL ENGAGES RATCHET TOOTH, STOPS MOTION
PISTON DOES NOT BOTTOM OUT
RACK CONTINUES TO TRY TO TURN GEAR, SO CLUTCH STAYS LOCKED, TRYING TO TURN SHAFT. RATCHET PREVENTS MOTION.

3) RESET

CAM TURNS WITH GEAR, PUSHES PAWL AWAY FROM RATCHET
CLUTCH UNLOCKS, ALLOWS SHAFT TO STAY STILL. FRONT CLUTCH PREVENTS SHAFT FROM BACKING UP.

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