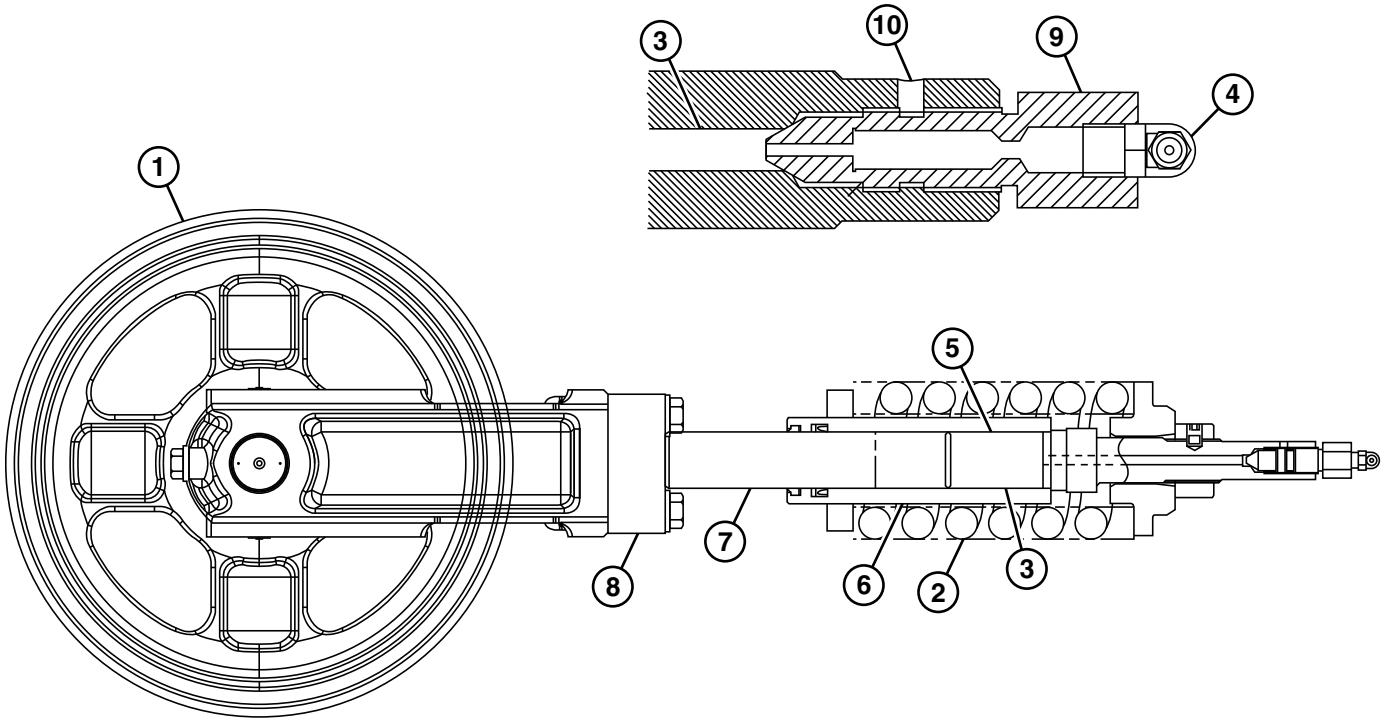
Track Adjuster and Recoil Spring Operation



TX1125842

Track Adjuster and Recoil Spring Assembly

1— Front Idler
2— Recoil Spring
3— Grease
4— Grease Fitting
5— Grease Chamber
6— Adjuster Cylinder
7— Piston
8— Yoke
9— Valve
10— Grease Relief Passage

The track adjuster and recoil spring assembly is supported by the track frame. Shock loads on the track and front idler (1) are absorbed by the recoil spring (2).

To decrease track sag, grease (3) is pumped into grease fitting (4) and fills grease chamber (5) inside the adjuster cylinder (6). The grease pushes the piston (7) against the yoke (8), moving front idler out and reducing track sag.

CAUTION: Prevent possible injury from high pressure grease. DO NOT remove grease fitting (4) from valve (9).

Increasing track sag is accomplished by loosening valve (9) to release grease from the adjuster cylinder through grease relief passage (10). When releasing grease from the adjuster cylinder, only loosen valve; do not remove valve or grease fitting.

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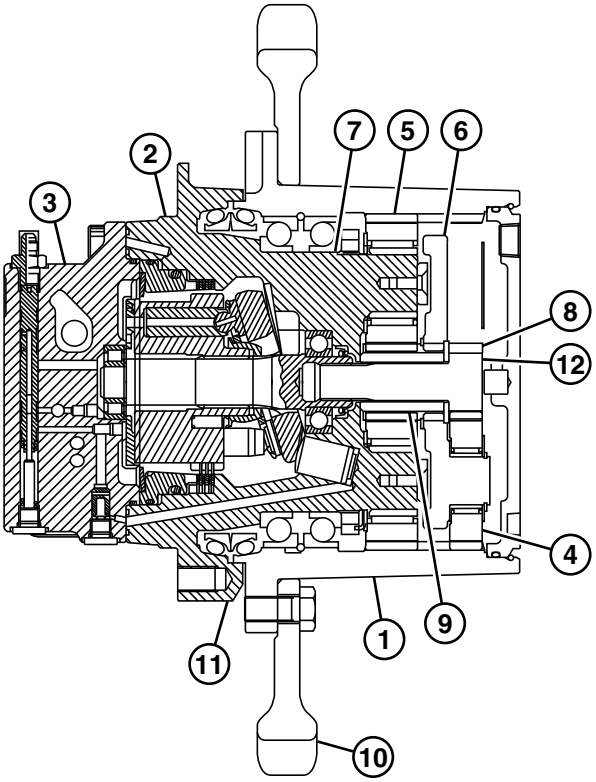
Travel Gear Case Operation



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Travel Gear Case Operation

1— Ring Gear
2— Travel Motor Housing
3— Park Brake Valve Housing
4— First Stage Planetary Gear
5— Second Stage Planetary Gear
6— First Stage Carrier
7— Second Stage Carrier
8— First Stage Sun Gear (input shaft)
9— Second Stage Sun Gear
10— Sprocket
11— Drum
12— Travel Motor Drive Shaft

The travel gear case is a two-stage, planetary reduction gear system. It converts high speed, low torque from travel motor into low speed, high torque rotation. The gear case is interchangeable from right side to left side of machine. The travel gear case housing is fastened to the track frame.

The travel motor drive shaft (12) is connected to first stage sun gear (input shaft) (8) by a spline coupler. Travel motion is transferred from first stage sun gear to sprocket (10) by two planetary gear sets that mesh with the ring gear (1). As the first stage sun gear is rotated, it rotates the first stage planetary gear (4), causing the first stage carrier (6) to rotate.

The first stage carrier is connected to second stage sun gear (9). The second stage sun gear meshes with second stage planetary gear (5). Second stage planetary gears are connected to second stage carrier (7). The second stage carrier is fastened to the gear case housing and does not rotate. The rotation is transferred to the ring gear. The ring gear, drum (11), and sprocket are fastened together and turn as one unit, which rotates the track to move the machine.

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