

PREVENTIVE MAINTENANCE
FOR KNEE-SKI

February 1986

This is a guide for preventive maintenance for Knee-Ski. This is not a complete guide. This should be used in conjunction with the Knee-Ski manual.

Morning Maintenance:

There should be movement in the top of every runner. If there is not, this could cause a derailment. If the top of the runner does not move, add 1 spacer ring until there is movement. If there is too much movement and it sounds sloppy, you need to take a spacer ring off until the movement is firm.

When installing a new tension eye-bolt, be sure to fill the wedge clamp with grease.

The magazine must be greased at least two times a week. The easiest way to do this is to take a ball rope and grease the second ball. Run the rope up the elevator and let it fall down the vertical pipe to the magazine.

When installing carrier #1, be sure that the u-bolt that holds the cable to the wedge, is at least 4mm away from the carrier itself.

There should be no more than 2 people on tower 1 when the cableway is running. When the cableway is not running, a maximum of 4 people on tower 1 is recognized.

Magazine guidewires - the guidewires should be positioned as close to the elevator grab as possible. These guidewires allow the ball rope to enter the vertical tube and pull out of the elevator grab. Each grab should be checked by hand when passing the guidewires. If a grab hits the guidewires, the grab fork can be bent upwards to avoid the guidewire.

Adjusting the coupling rail - The coupling rail should be adjusted so as the cheesehead should touch the rail approximately 5 inches in front of the notch. At the notch the coupling lever should be lifted high enough to allow the ball rope to come out of the carrier. The coupling lever should then rise slightly higher; about 2 inches past the notch before closing again.

The back of the ball compartment on all carriers should be filed down periodically. This will allow the ball ropes a longer lifespan.

Monthly Maintenance:

All pulleys should be greased so as to allow all old grease to be forced out. DO NOT remove any old grease from the pulleys. This old grease will act as a sealer and will keep any water from getting to the bearings.

The driveshaft on tower #1 should be greased heavily.

All pulleys on tower #6 should be greased.

When installing new pulley linings, there should be a maximum space of 7mm between each new lining.

Yearly Maintenance:

The angle of the towers should be checked. The angles should be 30° (± 1 degree).

All u-bolts securing the tower support cables should be checked for proper torque. The torque should be 120 mm.

All u-bolts for the stabilizer cables on towers #1 and #4 should be hand tight and covered with a thin layer of grease. If any of them are rusting they should be replaced at once.

Miscellaneous:

No one should turn the turnbuckles for either the loading rod or fork cables. If you believe that they are out of adjustment, you should notify your lead at once.

All ropes should be equalized every night.

After every cable equalization a flag test must be run for every tower.