

IRWIN CAR AND EQUIPMENT

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IRWIN CAR AND EQUIPMENT - TECHNICAL SUPPORT SERVICES

Maintenance & Lubrication Instructions for SA-101/TA-Series Idler Wheel Assemblies

Product Lines: Irwin Model SA-101 1 to 15 ton capacity stub axle idler wheel assemblies, and Irwin Model TA-101, TA-102, TA-103 & TA-104 thru axle idler wheel assemblies

General Information

- Irwin **Model SA-101** stub axle wheel assemblies are shipped to you fully assembled, lubricated, painted and ready for immediate installation.
- Designed to be exceptionally rugged and easily maintained, your Irwin wheel assemblies should provide you with years of reliable service with a minimum amount of preventive maintenance.
- Standard load ratings are based on 50 RPM travel speeds.

Lubrication and Maintenance

- The ambient temperature of the wheel assemblies and the cleanliness of the operating environment is the prime factor determining the need to re-lubricate your wheel assemblies.
- The maximum operating temperature of the bearings in your Irwin wheel assemblies is 300 °F. However, you will quite likely note a loss of lubricant as temperatures approach 300 °F.
- In the event your operating temperatures are significant enough to break down the lubricant or affect its viscosity, re-lubricating your assemblies is easily done. Simply pump new grease into the assembly via the grease fitting located on the outside end of the axle. This will force old grease (as well as any contaminants that may have migrated into the assembly) out of the assembly through the machined steel grease seals (i.e., the combination nut and dust collars).
- The schedule of re-lubricating Irwin wheel assemblies thereby becomes a function of your operating conditions and responsible routine maintenance.

Adjustment

- Periodically tighten set screws in axle boxes to fix axles securely in place and maintain track play clearances between inside face of the rail head and the radius at the bottom of the wheel flange. This play is typically ¼”.
- In the event you have had to replace the tapered roller bearings in your Irwin wheel assemblies (due to significant overloading, excessive temperatures or severe contamination), you will need to re-adjust the bearings in the wheel assemblies.
- To do this, screw the combination nut down the axle while rotating the wheel. Tighten the nut until the wheel binds, then unscrew the nut 1/2 turn. The wheel should now spin freely without end play. Now lock combination nut with cotter pin.
- Lubricate assembly.

Recommended Lubricants

- Mobilith AW 2 Industrial Grease
- Kendall L-427 Super Blu-Grease
- Or Similar Compound
- Special Lubricants for elevated temperature applications are available – please contact applications engineer at Irwin Car and Equipment to discuss a specific lubricant for your individual application.

Visit us at WWW.IRWINCAR.COM for detailed information on our wheel assemblies, crane wheels, industrial cars and mining equipment, as well as maintenance instructions for our entire line of wheel assemblies.