

STEIGER
Service Manual
Cougar CR/KR and Panther CP/KP
P/N 37-190

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Safety Suggestions

The manufacturer, dealer and/or agent can not anticipate every possible circumstance that might involve potential hazard. The Warnings, Cautions and Safety Suggestions in this manual are therefore not all inclusive. If an operating procedure, tool device, maintenance or work method not specifically recommended is used, you must also ensure that the product will not be damaged or made unsafe by the procedures you choose.



Whenever you see this symbol, it means Attention! Become Alert! Your safety is involved.

- **Always** observe and heed all caution and warning signs or other decals wherever they may appear.
- **Always** install the locking bar between the front and rear frames whenever possible -
 - A. Before service work is done near center of tractor
 - B. Before lifting or transporting the tractor on another vehicle
 - C. Before operating stationary PTO driven equipment
- **Never** perform any service or maintenance in the center hinge area of a 4 wheel-drive articulated tractor unless the engine is shut off and the switch key removed.
- **Never** clean, service or adjust the tractor or any equipment operated by it until the tractor engine is shut down and all machine motion is stopped, unless specific instructions are given for a particular repair or procedure.
- **Always** direct compressed air away from the body and towards a safe area. Use only an approved air nozzle and wear adequate eye protection.
- **Always** keep hand tools in good condition and proper working order. Replace any that are damaged.
- **Always** have electrical equipment and cords serviced and/or inspected periodically. Use only properly grounded electrical equipment.
- **Always** keep shop floors dry and clean to prevent falls of people and/or equipment.
- **Always** weld and/or grind only in safe areas away from any flammable or explosive materials.
- **Always** read the operation instructions and understand the proper use of test equipment or other special tooling.
- **Always** inspect all lift tie chains and/or slings periodically, replace any that show signs of damage.
- **Always** use a rated alloy chain for lifting or a sling of a size and type adequate for the intended usage.
- **Always** relieve all pressure in air, oil or water systems before any lines, fittings or related items are disconnected or removed. Be alert for possible fluid pressure or spring force when disconnecting or repairing any device from a system that utilizes fluid pressure or spring force.
- **Always** reinstall all fasteners with the same part number. **Do not** use a lesser quality fastener if replacements are necessary.
- **Always** wear eye protection when charging, boosting or performing other services to or around batteries.
- **Never** spin or rotate bearings with compressed air.
- **Never** attempt to lift or jack an object that exceeds the weight capacity of the lifting fixture (jack, hoist, fork lift etc.).
- **Never** wear loose fitting clothing around rotating shafts or machinery. Long hair should always be netted.
- **Do not** try to locate high pressure fluid leaks with your hands. Use cardboard or wood to search for suspected leaks. High pressure fluid escaping from a very small area can be nearly invisible. If injured by high pressure fluid, seek immediate medical attention. Serious infection or reaction can develop if proper medical treatment is not administered immediately.
- **Do not** use unguarded grinding tools or other power tools requiring a guard. Wear safety glasses and safety shoes whenever they may be required.

- **Do not** attempt to separate or disassemble hydraulic cylinders with the use of compressed air or hydraulic pressure.
- **Do not** attempt tire repairs unless you have the proper equipment and know how to perform the repair correctly and safely.
- **Do not** work on anything that is supported only by lift jacks or a hoist. **Always** use adequate blocks or proper stands to support the product before performing any service work.
- Use **only** approved cleaning solvents. **Never** use gasoline or other flammable or explosive materials for cleaning.
- Report or correct any unsafe areas or practices immediately.
- **Before** doing any electrical work, disconnect the battery. Do not damage wiring during removal operations. Reinstall the wiring so it is not damaged nor will it be damaged in operation by contacting sharp corners, or by rubbing against objects or sharp corner.
- If guards or shields must be removed to perform the repair or service, use extra caution. After the repair is completed, be sure to reinstall any guard or shield that was removed.

These are a few of the most common causes of personal injuries. There are a great many more and shops are continually finding accidents happening that they never heard of before.

The only known way to reduce personal injury, is to teach and practice **Safety First**.

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General Specifications

Panther 1000 Series Tractors

Axles

General Specifications

Model: S-40 (CP & KP 1325-1360)

Type: Single Planetary Drive Wheel Hubs, Spiral Bevel Ring Gear and Pinion

Ratio: 25.59:1

Options: No-Spin Differential - Front only

Oil Capacity: Center Differential - 22 qts (20.8L)

Wheel Hubs - 5 qts (5.76) each

Model: K594 00/10 (CP & KP 1400)

Type: Inboard and Outboard Planetary Gearing, Spiral Bevel Ring Gear and Pinion

Ratio: 26.12:1

Options: No-Spin Differential - Front only

Oil Capacity: Center Differential - 40 qts (38.0L)

Wheel Hubs - 8.5 qts (8.0L) each

Model: K598 60/70

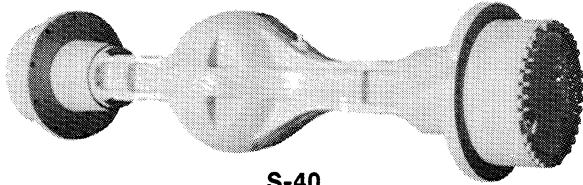
Type: Dual Outboard Planetary Gearing, Spiral Bevel Ring Gear and Pinion

Oil Capacity: Center Differential - 15.0 US qts (14.4L)

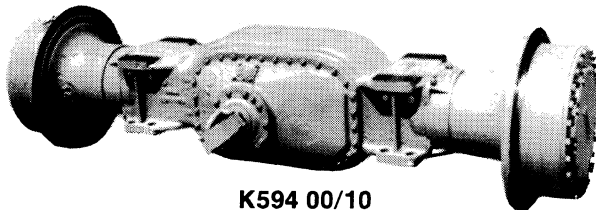
Wheel Hubs - 3.7 US qts (3.5L) each

Oil Type: Steiger HD API-GL-5 80W-90 gear oil, or other oils that meet the API service classification, GL-5 and/or MIL-L-2105B specifications

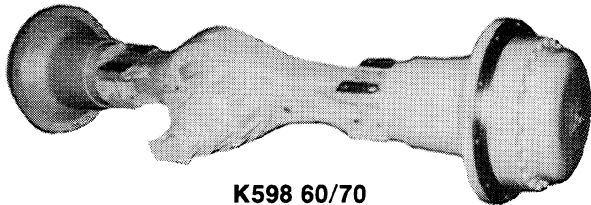
NOTE: In general 80W-90 is the recommended oil, however, SAE90 is acceptable as an alternative. Axle assemblies are flow-through design; oil is allowed to flow between compartments. Always park the tractor on a level surface when checking fluid levels.



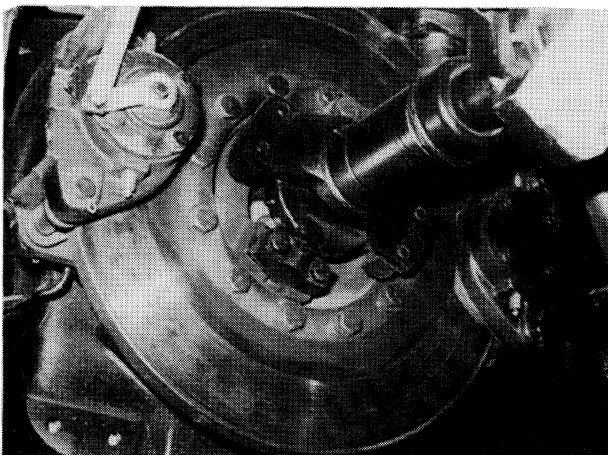
S-40



K594 00/10



K598 60/70



Brakes

General Specifications

Type: Self-Adjusting Dual Caliper, Single Disc

Disc Size: Diameter - 20 in (50.8 cm)

Thickness - .75 in (1.9 cm)

Mounting: Transmission lower front output yoke

Park Brake: Integral with one of two service calipers - self-adjusting, hand lever operated

Master Cylinder: Dual Stage

Fluid Type: SAE-J1703D

Fluid Capacity: 1 qt (0.946L)

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