



One BOB-CAT Lane, P.O. Box 469  
Johnson Creek, WI 53038 U.S.A.  
(920) 699 2000  
Fax: (920) 699 6836

## SERVICE BULLETIN

**Date:** August 27, 2013

**Bulletin No:** JC-13-22

**Product Type:** STEINER

**Customer Issue:**

- A. Leaking drive hose
- B. Loose drive shaft = Loss of hydraulic pressures
- C. Pedal dampener working loose

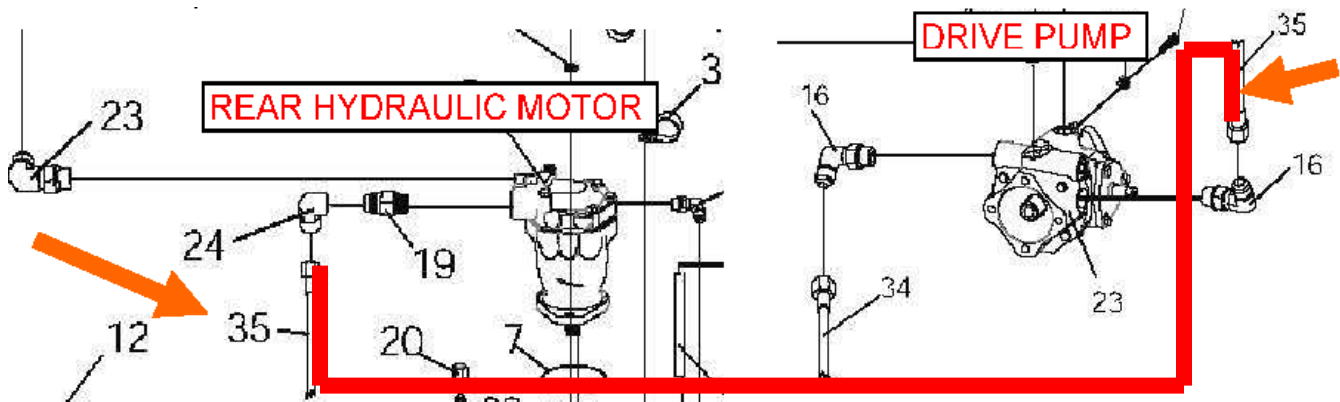
**Cause:**

- A. Hose will not hold up to all conditions in which a Steiner tractor may be used
- B. Drive shaft assembly bolts and set screws are not tight enough
- C. Dampener has potential to slide off the spacer

**Action required:**

**A. DRIVE HOSE:**

1. Remove hose 4166843-02 and replace it with hose 4169240-01. Tie something on to the hose and pull it through the tractor as you remove the old hose. Then use that to help pull and route the new hose into the tractor.
2. It should be easier to do this repair when you have the radiator out for drive shaft repair.



**B. Drive shafts: KUBOTA**

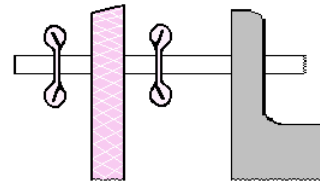
1. Drain and remove the radiator.
2. Release the belt tension going to hydraulic pump.
3. Remove the coupler set screws, retain for reuse. Remove the drive shaft assembly from the pump pulley and engine pulley. (Mark the shaft assembly: engine side and pump side) Engine side bolts are metric.



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4. Pump pulley
  - Check to see if the pump pulley is tight to the shaft.
    1. Yes: remove and discard the set screws from the pump pulley.
    2. No: Remove the pulley and discard it and the set screws.
  - Check the pump shaft for wear. If a new pulley will not get tight, replace the pump.
  - Reassembly of pump pulley onto the pump shaft. (Flat side toward pump)
    1. Thread the new 64044-23 5/16-18x3/4" set screws all the way through the pulley and into the shaft area.
    2. Remove the oil from the new set screws then apply removable lock-tight on and insert them almost to the end of the threads in the pulley.
    3. Apply removable lock-tight into the set screw threads from the shaft hole of pulley.
    4. Place the pulley on the pump shaft, flush with the end of the shaft and double set both set screws to 12 ft.-lbs.
5. While you have the driveshaft assembly out of the tractor, check all 6 bolts holding the 2 couplers to the fiber discs. Torque them until the beaded washers recess into the fiber discs one half the thickness of the bead (error on the tight side).

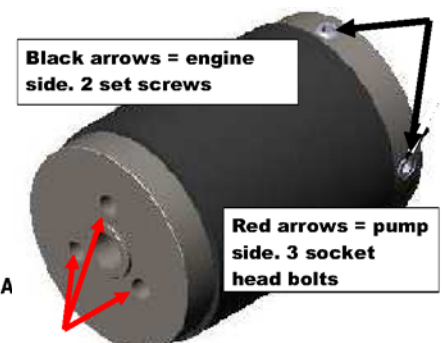
**Beaded washers need to be assembled as shown in the drawing. The open side goes against the fiber disc.**



6. Stake the outside ends of both keyways in the shaft so the key cannot slide out.
7. Install the assembly into the tractor properly according to the marks made on it in Step 3.
8. Snug up the 3 pump and 3 (METRIC) engine bolts then tighten them so the beaded washers recess into the fiber discs one half the thickness of the bead. As shown in Step 5
9. Center the drive shaft between the couplers to have equal penetration into both couplers. Engage as much key into each coupler as possible.
10. Use lock-tight and double set the set screws, removed in Step 3 to 12 ft.-lbs.
11. Tighten the pump belt
12. Reassemble the radiator and fill it with coolant.

#### **Drive shafts: KOHLER**

1. Remove the 4 engine mounting bolts
2. Loosen the 2 set screws in the coupler on the engine side



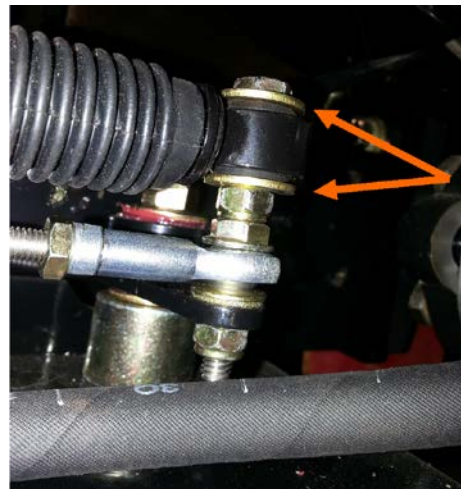


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3. Lift and move the engine forward separating the drive shaft or pulling the coupler off the engine crankshaft.
4. Remove the coupler from the pump pulley.
5. Pump pulley:
  - Check to see if the pump pulley is tight to the shaft.
    1. Yes: remove and discard the set screws from the pump pulley.
    2. No: remove the setscrews and pulley and discard them, if the pulley shaft hole is worn.
  - Check the pump shaft for wear if a new pulley will not get tight, replace the pump.
  - Reassembly of pump pulley onto the pump shaft. (Flat side toward pump)
    1. Thread the new 64044-23 5/16-18x3/4" set screws all the way through the pulley and into the shaft area.
    2. Remove the oil from the new set screws then apply removable lock-tight and insert them almost to the end of the threads in the pulley.
    3. Apply removable lock-tight into the set screw threads from the shaft hole of pulley
    4. Place the pulley on the pump shaft, flush with the end of the shaft and double set both set screws to 12 ft.-lbs.
6. Reassemble the drive shaft
  - Install the pump coupler onto the pump pulley. Torque the 3 bolts to 22 ft.-lbs.
  - Slide the engine into place, inserting both couplers into the rubber insert and bolt it tight.
  - Slide the engine coupler until there is approximately 1/16" gap between the rubber insert and one coupler. This allows crankshaft endplay.
  - Apply removable lock-tight on the set screw threads and in the threads of the coupler on the engine side. Double set both set screws to 12 ft.-lbs.

### C. Pedal Dampener:

Remove the floor plate and remove the back dampener bolt and install 2 flat washers (64163-55) onto the bolt and reassemble.





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**Products Involved:**

- A. Leaking drive hose:** all 440 tractors 75-72010, 75-72011, 75-72012, and 75-72013  
Below Serial Number: 7572010 **0344**  
7572011 **0199**  
7572012 **0185**  
7572013 **0183**
- B. Drive shaft:** Kubota and Kohler powered 440 tractors, 75-72010 and 75-72011  
Below Serial Number: 7572010 **0353**  
7572011 **0181**  
7572012 **0186**  
7572013 **0187**
- C. Pedal dampener:** all 440 tractors 75-72010, 75-72011, 75-72012, and 75-72013  
Below Serial Number: 7572010 **0353**  
7572011 **0181**  
7572012 **0174**  
7572013 **0179**

**NOTE: The following tractors are exceptions to the serial numbers listed above as they were reworked before leaving the factory. If you have one of these units, it will not need any of the listed updates done to it.**

**75-72010 0312, 0319, 0346, 0349, 0350, 0351, 0353, 0354, 0355**  
**75-72011 0181**  
**75-72012 0147, 0163, 0164, 0165, 0167, 0170, 0171, 0174**  
**75-72013 0179**

**Warranty:** Enter claims in Warranty Smart using labor codes:  
JC-13-22A for the Hose (3.5hrs)  
JC-13-22B for the Driveshaft (1hr)  
JC-13-22C for the Dampener (.5hr)

If you have any questions, please contact our Customer Service Department at 920-699-2000.

This bulletin is relevant to the departments checked below. Please circulate as appropriate.

SERVICE

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WARRANTY

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SALES

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PARTS

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