



## Hydraulic Noise in Steer Circuit

**Product: HD/HDX Series Workman**

**January 16, 2013**

**Affected Units:**

**Models:**

**Serial Numbers:**

07366	290000101-312001045
07367	290000101-312001373
07367(TC)	290000101-312001018
07368	290000101-312000288
07368(TC)	290000101-312000274
07370	290000101-312001071
07370(TC)	290000101-312001016
07371	290000101-312000207
07371(TC)	290000101-312000261

**Situation:** Objectionable hydraulic noise in the steer circuit.

HD/HDX Series Workman vehicles have been reported to possess varying levels of hydraulic steer circuit noise. Root cause of this noise has been found to be flow pulsations from the pump resonating through the hard lines which would excite the floor plate of the operator area of the vehicle. The complaint is more likely to be observed in units with cabs due the enclosure trapping the sound from the floor plate.

Replace Hose ASM (99-0965) and Fitting-HYD, 90 Degree (340-18) with Hose-ASM (121-6283) and straight fitting Adapter (340-3). This hose has expansion characteristics that allow it to absorb the hydraulic gear pump pulsations. A secondary hydraulic “swish” sound may be emanating from the Pump-Steering (120-4813) when the steering wheel is turned. If this sound is found to be objectionable, this component can also be replaced. Both of these modifications are considered “upgrades” and are installed at customer expense.

**Instructions:**

Please contact your local Toro Commercial Products Distributor Service Group for more information on this issue and assistance in correcting this complaint. Reference Commercial Service Bulletin Vehicles #08-16, “Hydraulic Noise In Steer Circuit”, dated 2/16/2013.