



## Cushman Core Harvester Fit-up Requirements

**Product:** All Heavy Duty Workman

**Updated Dec. 20, 2015**  
Added models & S/Ns and  
Hyd Kit information

**Affected Units:**

All Heavy Duty Workman

**Models:**

See attached list

**Serial Numbers:**

30101-316009999

**Subject:**

Information to aid in correct fit and function of the HD Workman equipped with the Cushman Core Harvester attachment.

**Situation:**

Prior to 2004, the Cushman Core Harvester was powered by the Workman Remote Hydraulics system which is a 4 gpm circuit. The core harvester requires a 6 gpm hydraulic power source. To compensate for this difference, Toro specified a smaller displacement motor (92-4240) for the elevator conveyer on the core harvester. This motor was part of Mount Kit (44242) that adapts the core harvester to the Workman application. In 2004, we elected to eliminate the motor from the mount kit and power the system with the 8 gpm High Flow Hydraulics circuit. This eliminated the need for the small displacement motor. However, when running the 4 gpm system, operators had learned to run the engine at full rpm to provide required performance from the core harvester. This operating practice changed when the 8 gpm system was implemented due to the additional flow supplied by the 8 gpm system. Operator re-education was required. Further confusion was experienced when trying to mount an older core harvester on a newer Workman or the opposite.

**Correction:**

A reference matrix was built to instruct on the required set-up and operating parameters, dependent on the vintage of the vehicle and attachment involved. This matrix appears below. When using High Flow Hydraulics, it is important to allow the vehicle engine to slow to low idle prior to switching the hydraulic system off. This will avoid failed seals in the system due to inertia developed by the conveyer motor.

Please contact your local Toro Commercial Products Distributor for additional information and assistance on this issue; reference Service Bulletin Vehicles 17-19 "Cushman Core Harvester Fit-up Requirements" when making your inquiry.

Cushman Vintage ► Workman Vintage ▼	2004 & up Cushman Core Harvester Mounting Kit (44242)	Pre-2004 Cushman Core Harvester Mounting Kit (44242)
<b>High Flow Hydraulics Kit</b> Workman 3000/4000 series (2004-2009) (with Kit 07228)  Workman HD Series (2009 + UP) (with Kit 07316)	<p style="color: red;"><b>Conveyer Motor Requirement:</b> Use Motor supplied with the Cushman Assembly.</p> <p style="color: blue;"><b>Suggested Operating Technique:</b> 2nd gear, low range, engine speed @ 2200 rpm Let the engine slow to low idle prior to switching the system off</p>	<p style="color: red;"><b>Conveyer Motor Requirement:</b> Use Motor supplied with the Cushman Assembly.</p> <p style="color: blue;"><b>Suggested Operating Technique:</b> 2nd gear, low range, engine speed @ 2200 rpm Let the engine slow to low idle prior to switching the system off</p>
Pre-2004 Workman with Remote Hydraulics (07415)	<p style="color: red;"><b>Conveyer Motor Requirement:</b> Use motor - Toro p/n 92-4240</p> <p style="color: blue;"><b>Suggested Operating Technique:</b> 1st gear, low range, engine speed @ 3600 rpm</p>	<p style="color: red;"><b>Conveyer Motor Requirement:</b> Use motor - Toro p/n 92-4240</p> <p style="color: blue;"><b>Suggested Operating Technique:</b> 1st gear, low range, engine speed @ 3600 rpm</p>

Model Numbers Affected –1993 to 2016:

07200/TC	07224	07368/TC
07202	07228	07369
07205/TC	07230	07370/TC
07206/TC	07231	07371/TC
07210	07232	07383
07211/TC	07233	07384/H/TC
07212	07316	07385/H/TC
07213/TC	07360	07386/H/TC
07214	07361/TC	07387/H/TC
07215/TC	07362/TC	07390/H/TC
07216	07363	
07217/TC	07364/TC	
07218	07365	
07222	07366	
07223	07367/TC	