



Improved Engine to Pump Coupler

Product: Sand Pro® 3040/5040

Feb 13, 2012

Affected Units:

Models:

Serial Numbers:

Sand Pro 3040

08703

260000001-311000490

Sand Pro 5040

08705

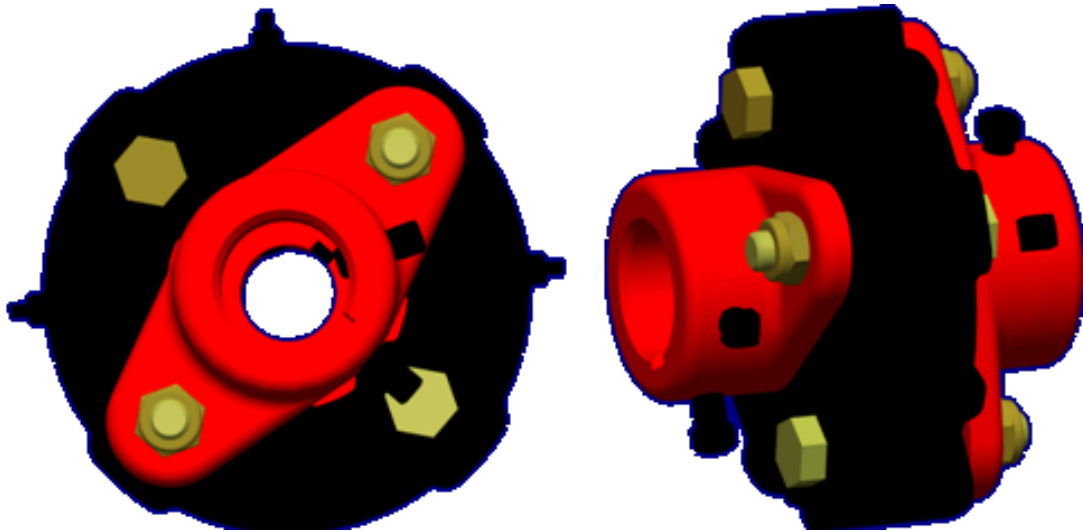
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Situation:

As a continuous improvement change, the Pump Drive Coupler that transfers engine power to the traction pump has been redesigned with cast hubs and a more robust coupler. This new design improves the reliability with a simplified coupler design.

Instructions:

In the event that a previous design (welded steel) coupler requires replacement, the new Pump Drive Coupler (120-3477) should be installed. This part number represents a kit with 2 cast hubs, the rubber coupler and the 4 fasteners. Individual parts of the new coupler cannot be intermixed with the older (welded) coupler design. Should you have any questions, please contact your Toro distributor.





Replacement Coupler Kit

Sand Pro 3040 and 5040 Traction Unit

Model No. 120-3477

Form No. 3369-752 Rev A

Installation Instructions

Loose Parts

Use the chart below to verify that all parts have been shipped.

Procedure	Description	Qty.	Use
1	Rubber coupler	1	Installing the kit.
	Hex-head bolt	4	
	Locknut	4	
	Pump hub	1	
	Engine hub	1	
	Square-head set screw (1/2 inch)	3	
	Square-head set screw (3/4 inch)	1	

1

Parts needed for this procedure:

1	Rubber coupler
4	Hex-head bolt
4	Locknut
1	Pump hub
1	Engine hub
3	Square-head set screw (1/2 inch)
1	Square-head set screw (3/4 inch)

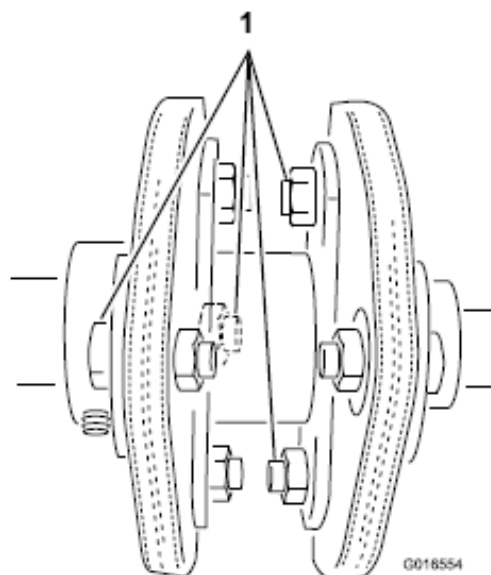


Figure 1

1. Remove the shield that covers the hydrostat.
2. Remove the 4 bolts, 4 spacers, and 4 nuts shown in Figure 1 so that one rubber disk and the center coupler remain assembled.

1. Remove these fasteners

3. Pull the one disk and middle coupler out from the side of the engine cradle and traction unit (Figure 2).

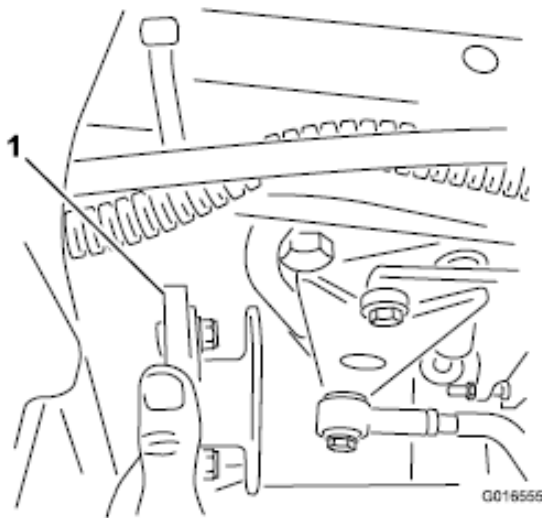


Figure 2

1. Disk and middle coupler

4. Remove the other hub and the hub and disk by removing the square-head set screws on the hubs and carefully sliding the hubs off the shafts.

Note: Slide the hubs off the shafts carefully to save the keystone in each hub for future use.

5. Install the new engine hub but do not tighten the 2 set screws (1/2 inch).
6. Install the new pump hub, ensuring that the 1/2-inch set screw is in the key location and the 3/4-inch set screw is used in the full-depth location.

Important: Do not yet tighten these set screws, because doing so may pre-load the coupler and severely reduce the operating life of the coupler components.

7. Insert the rubber coupler and fasten it to the engine and pump cast couplers with the hardware from loose parts.

Note: Mount the cast couplers onto the raised lugs as shown in Figure 3.

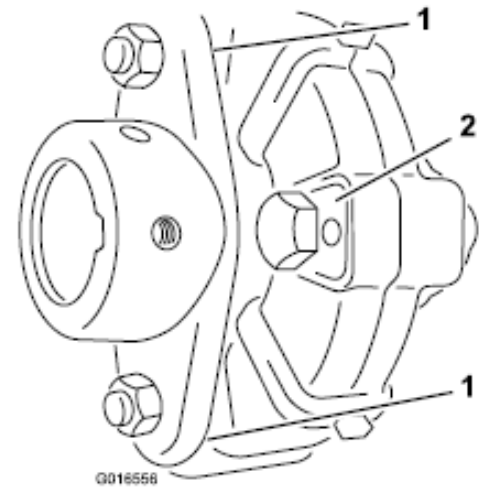


Figure 3

1. Raised lug
2. Recessed lug

Note: The assembly has been removed for the purpose of clarity.

8. Start the engine and idle the machine for 15 to 30 seconds to allow the assembly to locate itself on the shafts.
9. Stop the engine and tighten all 4 set screws.
10. Install the hydrostat cover.