Form No. 3366-959 Rev B

Speed Reduction Kit

Groundsmaster 360 Multi-Purpose Machine

Model No. 30547

Installation Instructions

Installation

1. Park the machine on a level surface, shut the engine off, set the parking brake and remove the key from the ignition switch.
2. Remove the (2) outer screws and nuts (shown in Figure 1) from the frame member.

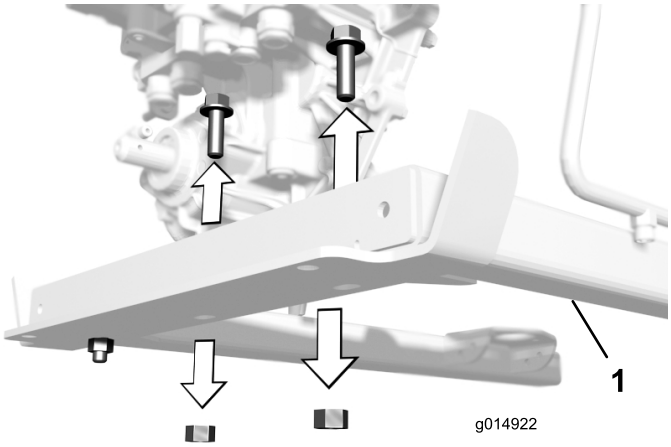


Figure 1

1. Frame

3. Secure the cylinder mounting plate to the frame with (2) 1/2 x 1–1/2 inch flange head screws and the previously removed nuts (Figure 2).

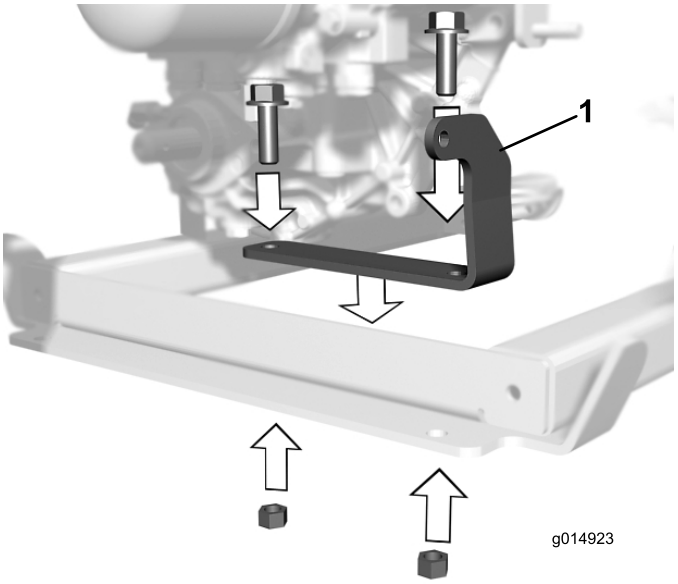


Figure 2

1. Cylinder mounting plate

4. Secure the jam nut onto the hydraulic cylinder rod until it is 9/16 inch (1.42 cm) from the end of the rod (Figure 3).
5. Secure the yoke onto the hydraulic cylinder shaft until it bottoms out on the jam nut and is positioned as shown in Figure 3.

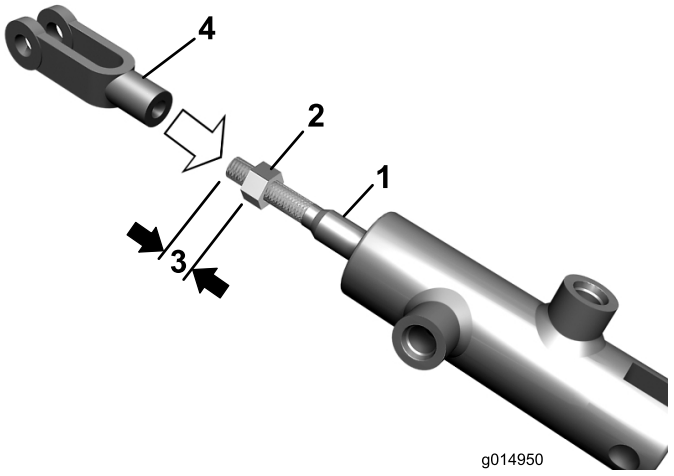


Figure 3

1. Hydraulic cylinder rod
2. Jam nut
3. 9/16 inch (1.42 cm)
4. Yoke

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CE

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Note: Make sure all the O-rings are in position and lubricated with hydraulic oil before connecting the fittings and hoses.

6. Mount the 45 degree fitting to the top of the hydraulic cylinder, positioning as shown in Figure 4.

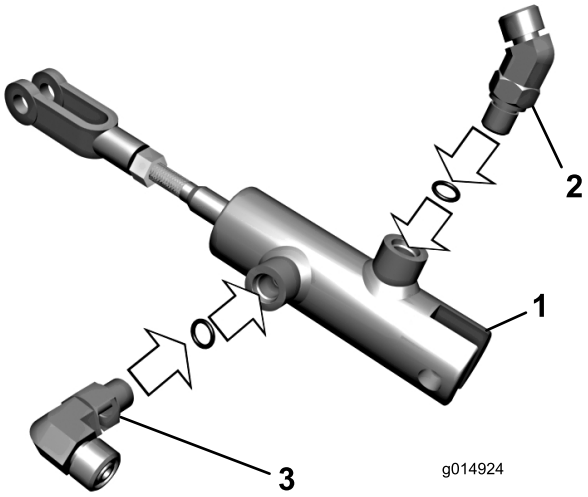


Figure 4

1. Hydraulic cylinder
2. 45 degree fitting
3. 90 degree fitting

7. Mount the 90 degree fitting to the side of the hydraulic cylinder, positioning as shown in Figure 4.
8. Mount the hydraulic cylinder to the cylinder mounting plate with a clevis pin and locking cotter pin (Figure 5).

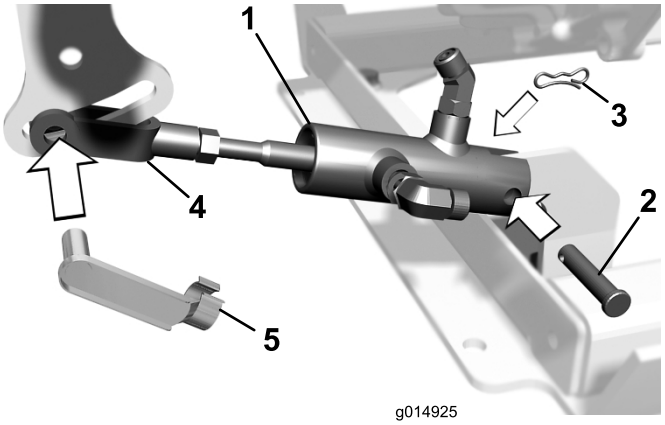


Figure 5

1. Hydraulic cylinder
2. Clevis pin
3. Locking cotter pin
4. Hydraulic cylinder yoke
5. Spring clevis pin

9. Secure the hydraulic cylinder yoke to the slot in the traction linkage with the spring clevis pin (Figure 5).

Note: To gain additional access when installing the hydraulic components, remove the (2) seat channel mounting bolts and nuts allowing the channel to be moved to the side (Figure 6).

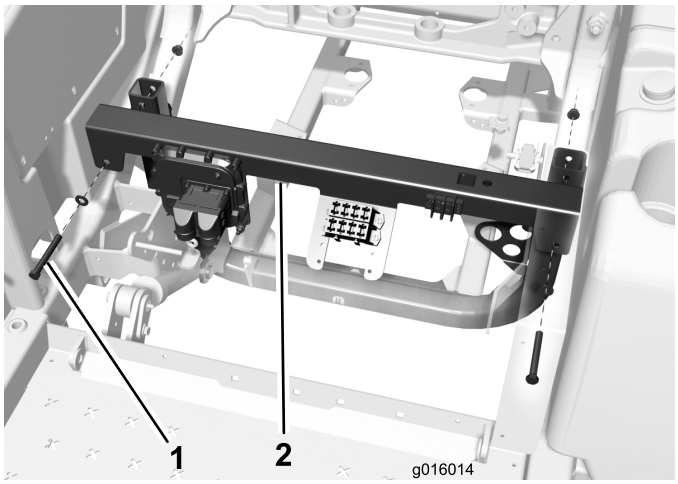


Figure 6

1. Mounting bolt and nut (2)
2. Seat channel

10. Connect the straight fitting end of the hydraulic hose to the 90 degree fitting on the side of the cylinder (Figure 7).

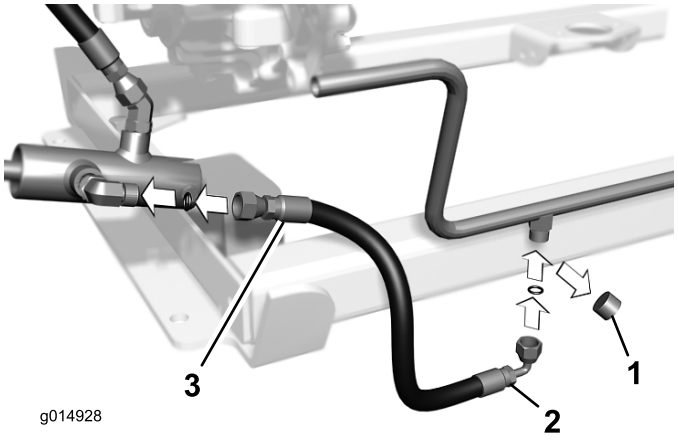


Figure 7

1. Hydraulic line port cap
2. Hose
3. Straight fitting end

11. Remove the cap from the port on the hydraulic line (Figure 7).
12. Connect the 90 degree fitting end of the hydraulic hose to the port on the hydraulic line (Figure 7).
13. Secure the other end of the hose to the 45 degree fitting on the hydraulic cylinder (Figure 8).

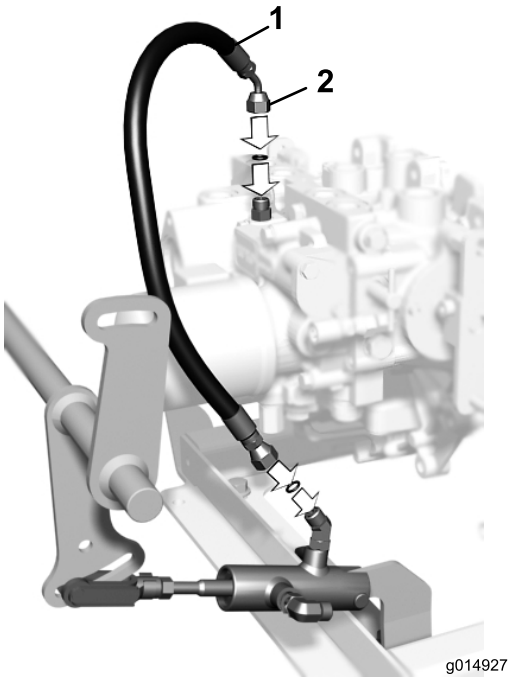


Figure 8

1. Hose
2. 45 degree fitting end

14. Place a drain pan under the transmission.
15. Remove the plug from the port on the top of the transmission (Figure 9).

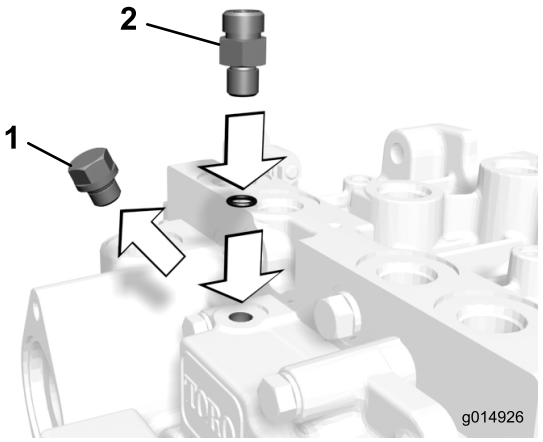


Figure 9

1. Transmission plug
2. Straight adapter fitting

16. Install a straight adapter fitting into the transmission port (Figure 9).

    Note: Use a back up wrench installing the hoses to the fittings.

17. Connect the 45 degree fitting end of the hydraulic hose to the new straight fitting on the transmission (Figure 8).
18. Check all connections.
19. Check the hydraulic fluid level and replenish as required.
20. Operate the machine and check the operation of kit. If the speed must be adjusted, proceed as follows:
    - Remove the spring clevis pin securing the yoke to the traction linkage (Figure 10).
    - Loosen the jam nut on the yoke (Figure 10).

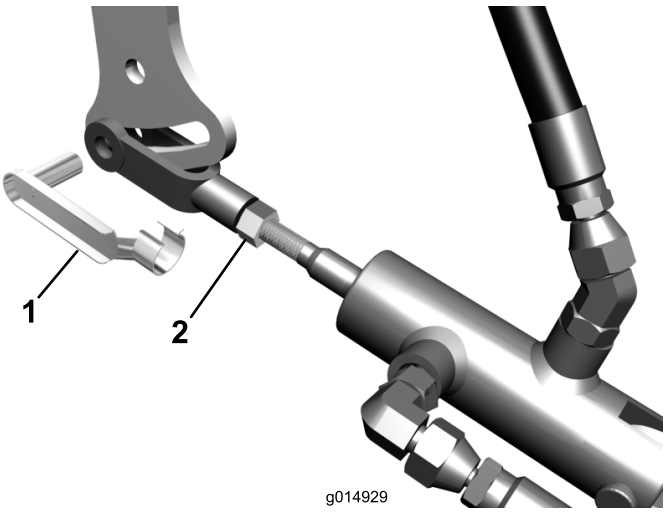


Figure 10

1. Spring clevis pin
2. Jam nut

- Rotate the yoke in on the cylinder rod to increase the mowing speed or out on the rod to decrease the mowing speed. The range of adjustment is 4 to 12 MPH (6.4 to 19.3 Kph). Slower speed adjustments may compromise the machines hill climbing capability.
- Tighten the jam nut.
- Reconnect the yoke to the traction linkage with the spring clevis pin.



Count on it.