



BILLY GOAT

Speed Cable Replacement Kit OS900SPS-OS900SPH

Purpose of Kit:

To replace speed control cable on your Over Seeder 900. The new cable will allow you to control the speed of your overseeder and will replace a worn out or otherwise unusable cable.

Part One: Remove Old Speed Cable

Tools/Materials:

For Parts One and Two you will need:

- 5/32" Allen wrench (1)
- Impact driver or cordless drill (1)
- 7/16" magnetic impact/drill socket (1)
- 1/2" wrench (1)
- Pliers (not pictured)

For Part One your kit will include:

- New speed cable (1)



Figure 0A

Step One: Mount the overseeder

1.1 Safely mount the over seeder on lifting jacks as shown in Figures 1A and 1B.

Note: If possible, mount your overseeder on a hydraulic lift table to move the overseeder up and down as needed.



Figure 1A

Step One Continued:



Figure 1B

Step Two: Secure the seed cable box

2.1 Insert 5/16" nut lock (Part#93) into overseeder as shown in Figure 2A. You may need to hammer the nut lock in place.

Note: View Figure 2B. This figure is an upside down viewpoint of the innards in the speed cable box. The circled area shows the screwcap and bearing that will be removed in Step Four.

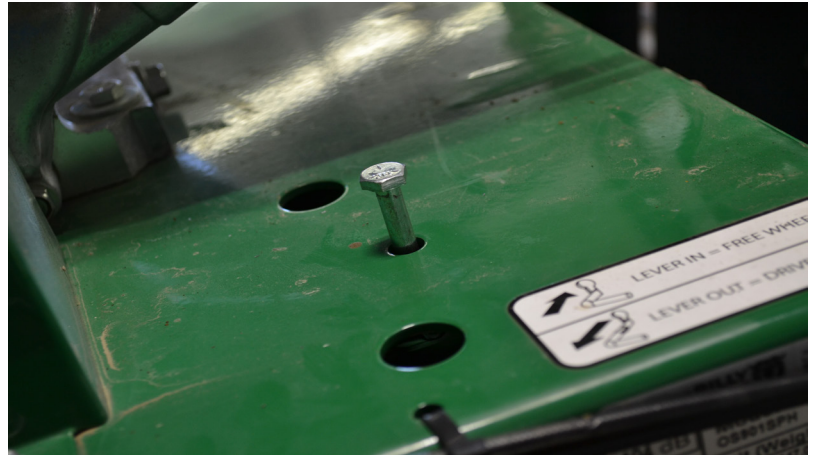


Figure 2A



Figure 2B

Step Three: Remove speed control bracket

3.1 Use a 1/2" wrench to remove lock nuts on the speed cable bracket (Part#162) as shown in Figures 3A and 3B. There are four (4) lock nuts in total.



Figure 3A

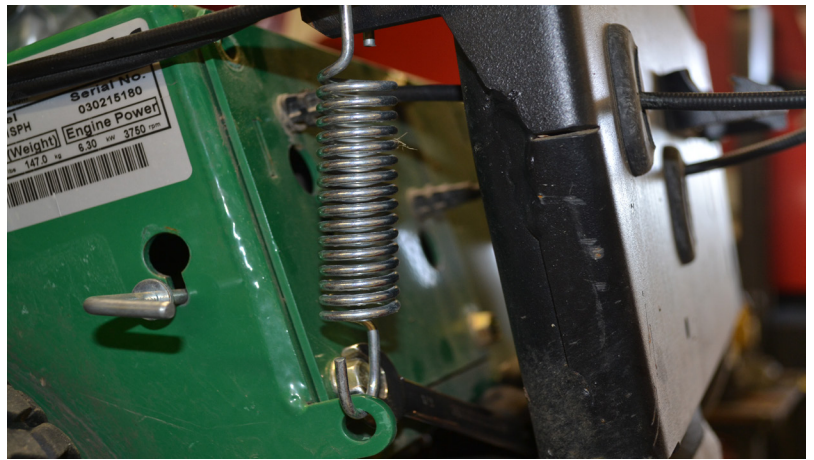


Figure 3B

Note: Keep the lock nuts handy as you will need to replace them in Part Two.

Step Four: Remove Bearing and Screwcap

4.1 Locate the screwcap (Part#169) connected to the right handle speed cable. It is located underneath your overseeder on the lefthand side (see Figure 4A). You will remove the bearing and screw cap circled in red as shown in Figure 2B.



Figure 4A

Step Four Continued:

4.2 Use an impact driver (or cordless drill) with a 7/16" impact/drill socket on the nut as shown in Figure 4B. Simultaneously, use an allen wrench on the screwcap as shown in Figure 4C to remove the screwcap and nut assembly.



Figure 4B



Figure 4C

Note: For easier removal, use a magnetic impact bit. The removed accessories should appear as in Figure 4D (1910).



Figure 4D

Step Five: Remove Spring Extension from Underside of Overseeder

5.1 Refer to Figures 5A and 5B. Remove the spring extension using fingers. See Figure 5C.

5.2 Lower the lever previously held in place by spring extension as shown in Figure 5D (1917).

Note: Keep the spring extension handy as you will need to replace it in Part Two.



Figure 5A



Figure 5B



Figure 5C



Figure 5D

Step Six: Feed Speed Cable Out of Overseeder

6.1 Cut cable ties that secure the speed cable in place such as cables circled in red in Figures 6A and 6B.

6.2 Gently tug on the speed cable to gradually remove it from the inner speed cable assembly.

6.3 Use your fingers or gently use a flat head screwdriver to remove the black rubber casing around the hole that the speed cable runs through. See Figure 6C.



Figure 6A

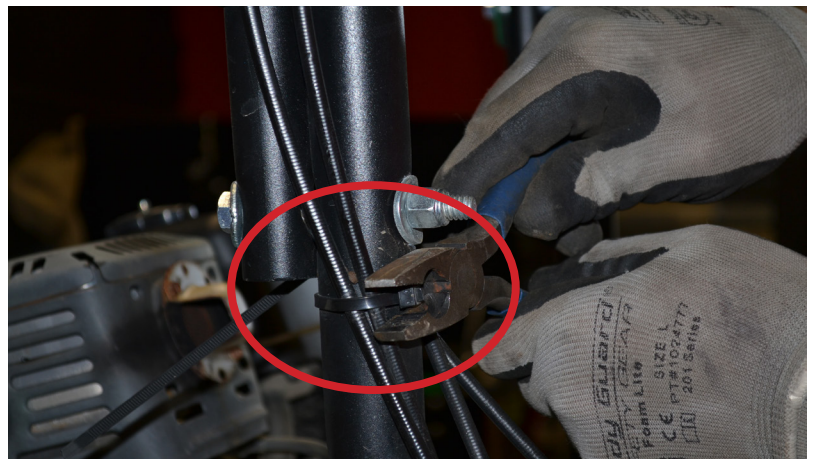


Figure 6B

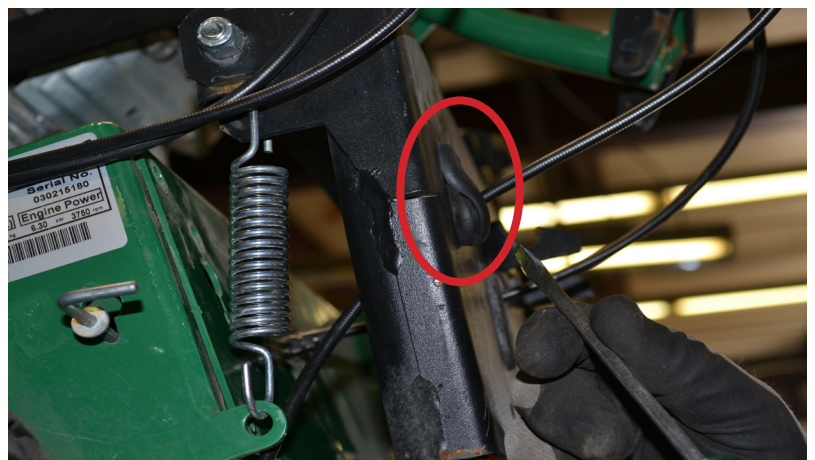


Figure 6C

Step Six Continued:

6.4 Use pliers to gently press the black plastic tip of the speed cable as shown in Figure 6D. This plastic expands to prevent slipping, so you will need to compress the plastic to continue feeding the cable out of the overseeder's inner workings. Figure 6E provides a close up view.

6.5 Continue to gently tug on speed cable until it is completely removed from the inside of the overseeder as shown in Figures 6F and 6G.

Note: Figures 6F and 6G show rubber casing still in position on the machine. You should remove this rubber casing as instructed in step 6.3.

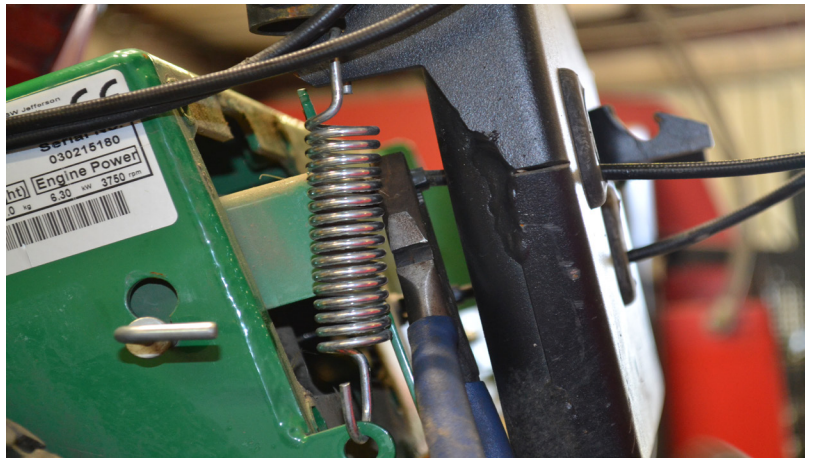


Figure 6D



Figure 6E



Figure 6F



Figure 6G

Step Seven: Remove Cable from Handle Lever

7.1 Press lever to expose speed cable as shown in Figure 7A.

7.2 Gently pull down on the cable as shown in the area circled in red in Figure 7B.

7.3 Gentle pull cable tip out of handle. This area is circled in red in Figure 7C.



Figure 7A



Figure 7B



Figure 7AC

Part Two: Install New Speed Cable

Step Eight: Insert New Cable into Handle Lever

8.1 Insert the new cable's tip into the handle as shown in Figure 8A.

8.2 Squeeze the handle slightly and gently pull the cable up as shown in Figure 8B.

8.3 Press up on the cable (See Figure 8C) and close the handle (See Figure 8D).



Figure 8A



Figure 8B



Figure 8C



Figure 8D

Step Eight Continued:

8.4 The final view should be as seen in Figure 8E.



Figure 8E

Step Nine: Run New Cable Towards the Inner Workings of Machine

9.1 Run the cable towards the lower lefthand side of the machine where the old cable was previously positioned.

9.2 Run the cable through the black rubber casing and reattach the rubber casing to machine as shown in Figures 9A and 9B.



Figure 9A



Figure 9B

Step Nine Continued:

9.3 Feed cable into the back end of the machine to attach to inner workings. See Figure 9C.



Figure 9C

Step Ten: Attach and Secure New Cable into Overseeder

10.1 With the new cable in place as shown in Figure 2B, use the impact driver (or cordless drill) with the 7/16" socket and Allen wrench simultaneously to secure the cable into the assembly.

10.2 Reattach extension spring to lever as shown in Figures 10A and 10B. Final assembly should appear as in Figure 5A.

10.3 Reattach the speed cable bracket by securing the four lock nuts in place with a 1/2" wrench. Reference Figures 3A and 3B.



Figure 10A



Figure 10B

Step Ten: Attach and Secure New Cable into Overseeder

10.4 Remove the 5/16" nut lock needed in Part 1. See Figures 10C and 10D.

10.5 Secure the cables with new cable ties to ensure your safety while running your overseeder.

10.6 Lubricate the inner workings of the machine as needed. See Figure 10E.



Figure 10C



Figure 10D



Figure 10E