

**KV LINER KIT P/N 891134**



**BILLY GOAT KV LINER KIT  
(P/N 891134)**

**PURPOSE:** To reduce wear on interior of housing, increasing life of the vacuum.

**Tools required:** 1/2" wrench, 3/8" socket and ratchet, power drill with 1/8" and 11/32" bits and a screwdriver

**INSTALLATION:**

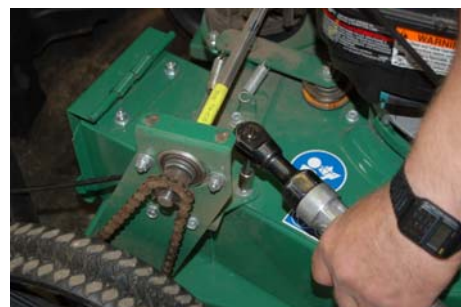
**Step 1. Remove transmission cover, transmission plate (SP Models), throttle cable and engine/top plate.**

Tools required: 3/8" socket and ratchet

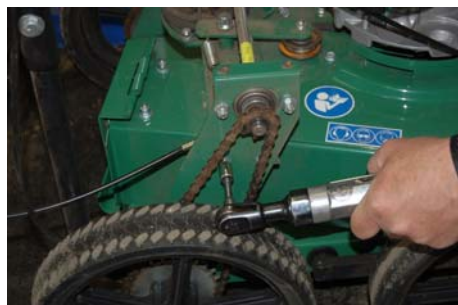
1. Disconnect spark plug wire.
2. Lower the nozzle to the lowest position and secure the unit from moving.
3. Remove the bag and the throttle cable at the engine.
4. Remove the four screws holding the transmission bracket. Then remove the screws holding the transmission bracket to the housing. (see 1-3) **(SP models only, for Push models go to step 6.)**
5. Slide the belt off of the transmission, and remove the spring on transmission bracket this will allow you to remove the transmission from the machine. (see 4)
6. Remove the screws holding the top plate to the housing. (see 5)
7. Once the top plate screws are removed carefully pull the engine/top plate away from the housing and set aside. (see 6)



1



2



3



4



5



6

**INSTALLATION: continued**

**Step 2. Drill pilot holes and install liner.**

1. Clean the interior of the housing to make sure that the liner will properly adhere to the surface.

2. Place the liner in the housing (**NOTE** do not remove the backing on the liner during this step) and position the liner so that the edge is 1/2" from the bend of the exhaust.

3. Once the liner is properly positioned drill a pilot hole using the liner as a template with a 1/8" drill and bit. Then increase the hole size with a 11/32" bit. (see 7)

4. Place one carriage bolt into the bracket and position it into the hole previously drilled. Then drill the lower hole in the same way the first hole was made. (see 8-10)

5. Remove the bracket, hardware and the liner. Then remove the backing from the liner and align with the holes drilled. Slowly go around the interior of the housing putting pressure on the liner to remove any kinks and making sure the liner is completely touching the housing. (see 11-13)

6 Attach using the bracket, carriage bolts, nuts and washers (which will be on the outside of the housing) in the holes made for the template. And secure them tightly with a 1/2" wrench. (see 14)

7. Drill out the second set of holes using the same method used before and secure with the hardware provided. (see 15-16)



7



1/2"

8



9



10



11



12



13



14



15



16



**INSTALLATION: continued**

**Step 3. Reassemble the machine.**

1. Reassemble the machine in reverse order that it was disassembled. **Note:** Only hand tighten the screws until the machine is completely assembled. (see 17)

2. Once the machine is completely assembled tighten all the hardware while making sure not to over tighten the screws as they might strip. (see 18)

3. To reconnect the throttle cable reinsert the throttle cable into the throttle lever on the engine and behind the clamp. Then pull the throttle lever on the handle all the way back so that the cable extends to it's furthest point. Then while putting forward pressure on the cable near the clamp area tighten the clamp but do not over tighten, as this will restrict the travel of the cable. (see 19-20)

4. Pull the start rope slowly to ensure there is no contact between the impeller and the liner.

5. Reattach the spark plug.

6. Test the machine to make sure the unit is running properly.



17



18



19



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	Part No.	Description	Qty
1	840200	LINER MV	1
2	8024040	BOLT CARRIAGE 5/16-18 X 1" ZP	4
3	8160002	NUT LOCK 5/16-18	4
4	8171003	WASHER 5/16 FLAT CUT	4
5	900933	PLATE HANDLE SUPPORT	2
	891135	LIT KV SERVICE KIT	1

