Form No. 3353–633 Rev. B

Breather Kit
Groundsmaster® 580–D
Part No. 108–8090

Installation Instructions

1. Position the machine on a level surface, lower the cutting units, stop the engine, engage the parking brake and remove the key from the ignition.

Caution

If you leave the key in the ignition switch, someone could accidently start the engine and seriously injure you or other bystanders.

Remove the key from the ignition switch before you do any maintenance.

2. Remove the dipstick from the oil level guide (Fig. 1).

3. Remove and retain the screw securing the oil level guide mounting strap to the side of the engine. Remove and discard the oil level guide and the O–ring from the engine. (Fig. 1).

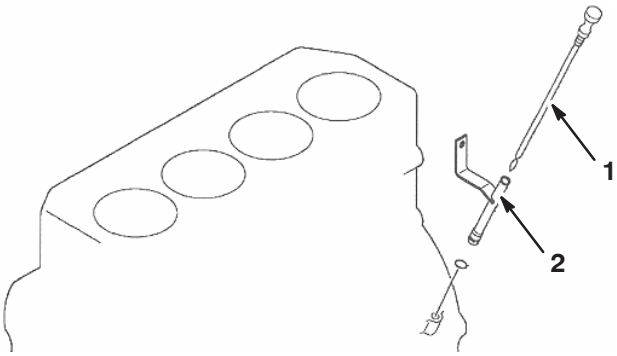


Figure 1

1. Dipstick
2. Oil level guide

Note: Make sure the O–rings are lubricated before installation.

4. Install the oil level pipe and the O–ring to the engine (Fig. 2).

5. Install the new oil level guide and the O–ring to the oil level pipe (Fig. 2).

6. Secure the oil level guide mounting strap to the engine with the screw previously removed (Fig. 2). Install the dipstick into the oil level guide.

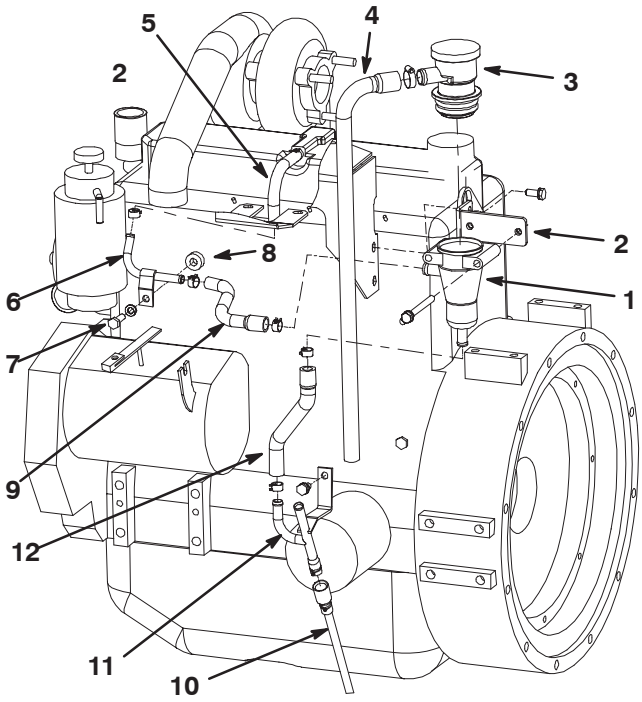


Figure 2

1. Breather adapter
2. Breather bracket
3. Breather
4. Formed vent hose
5. Breather hose
6. Breather pipe
7. Screw & lockwasher
8. Spacer
9. Formed breather hose
10. Oil level pipe
11. Oil level guide
12. Oil drain hose

7. Remove the R–clamp securing the old breather hose to the side of the engine. Remember the mounting hole location. Also, remove the hose clip securing the hose to the fitting on the rocker cover (Fig. 3). Discard the R–clamp, screw and the breather hose.

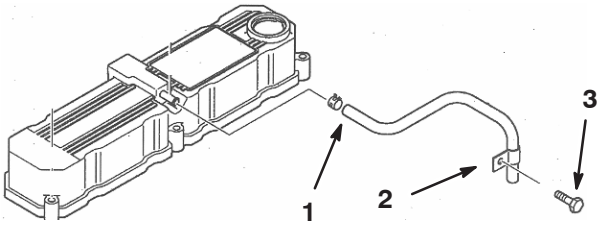


Figure 3

1. Old breather hose
2. R–clamp
3. Screw

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8. Cut the new breather hose to a length of 8 inches.

9. Install the hose to the rocker cover fitting and secure it with a hose clip (Fig. 2 & 5)). The hose is to be routed thru the opening in the bottom of the air cleaner bracket.

10. Install the breather pipe to the breather hose with a hose clip (Fig. 2 & 5). Using the old clamp mounting hole, secure the breather pipe to the side of the engine with a screw, lockwasher and spacer.

11. Mount the breather adapter to the to the breather bracket with (2) M8 x 18 screws w/washer (Fig. 2 & 5). Make sure the breather adapter is positioned so the side fitting faces toward the the air cleaner bracket.

12. Remove the (2) screws securing the air cleaner bracket to the engine (Fig. 4). Retain screws.

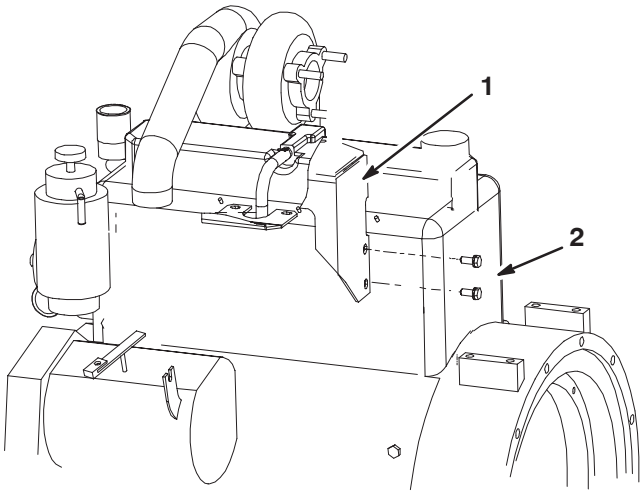


Figure 4

1. Air cleaner mounting bracket
2. Mounting screws

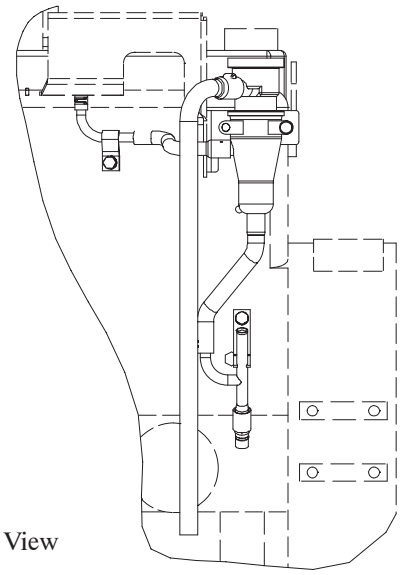
13. Using the air cleaner mounting bracket holes, secure the breather adapter to the engine with the (2) screws previously removed (Fig. 2 & 5).

14. Install the formed breather hose to the breather pipe and to the side fitting on the breather adapter. Secure both connections with a hose clip (Fig. 2 & 5).

15. Install the oil drain hose to the fitting on the bottom of the breather adapter and to the tube on the oil level guide with hose clips (Fig. 2 & 5).

Note: Make sure the O–rings are lubricated before installation.

16. Secure the vent hose to the breather with a hose clamp. Press the breather into the breather adapter (Fig. 2 & 5). Route the hose out the bottom of the engine compartment.



Assembled View

Figure 5

17. Affix a new service decal (Fig. 6) over the existing decal on the side of the console cover as follows:

- Make sure the decal mounting area is clean and dry.
- Affix decal, part no. 108–8078, onto machines with serial number 240000001 thru 249999999.
- Affix decal, part no. 108–8074, onto machines with serial number 250000001 thru 259999999.

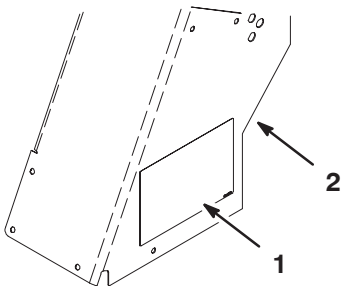


Figure 6

1. Service decal
2. Console cover

18. Replace the existing Operator's Manual's with the new manuals as follows:

- Operator Manual, part no. 3353–642 Rev. A, is for machines with serial numbers 240000001 thru 249999999.
- Operator Manual, part no. 3353–643 Rev. A, is for machines with serial numbers 250000001 thru 259999999.

19. Verify that the engine oil level on the dipstick is to the specified level in the new Operator's Manual.