



MD82 Ride-On Trowel

Air Intake Service Kit Installation

The following instructions are intended to assist the user with the installation of the Air Intake Service Kit on a Multiquip model MD82 ride-on trowel. They are not intended to take the place of the Operation manual shipped with the trowel. Refer to the Operation manual for safety, operation, and maintenance information. Please read all assembly instructions before installing the kit.

REQUIRED TOOLS

- 8 mm socket/wrench
- 10 mm socket/wrench
- 13 mm socket/wrench
- 7/16 in. socket/wrench
- 9/16 in. socket/wrench
- 11/16 in. wrench

PARTS

Verify that all parts are accounted for.
See Table 1 and Figure 1.

Table 1. MD82 Air Intake Service Kit Components				
Item No.	Part No.	Description	Qty.	Remarks
1	52245-SK	Service Kit, Air Intake, MD82	1	Includes items 2–12
2	52284	Instructions, Air Intake Service Kit, MD82	1	
3	43979	Bracket, Mounting, Manual Holder	1	
4	48202-29	Clamp, Mount	1	
5	42436	Screw, HFS M8-1.25 × 25 Gr 8.8	2	
6	48202-27	Air Cleaner, Donaldson	1	
7	48202-30	Cap, Rain, Donaldson	1	
8	52232	Intake Pipe W/A, MD82	1	
9	369007	Fitting, Brass 8 Push-On 3/8" MP	1	
10	23802	Nut, Hex Flanged M8-1.25 Serrated	2	
11	52230	Bracket, Top Rad/AC Mount, Kubota	1	
12	EE60377	Hose, 1/2 In. ID, 200 PSI, EPDM, Black	2.63'	

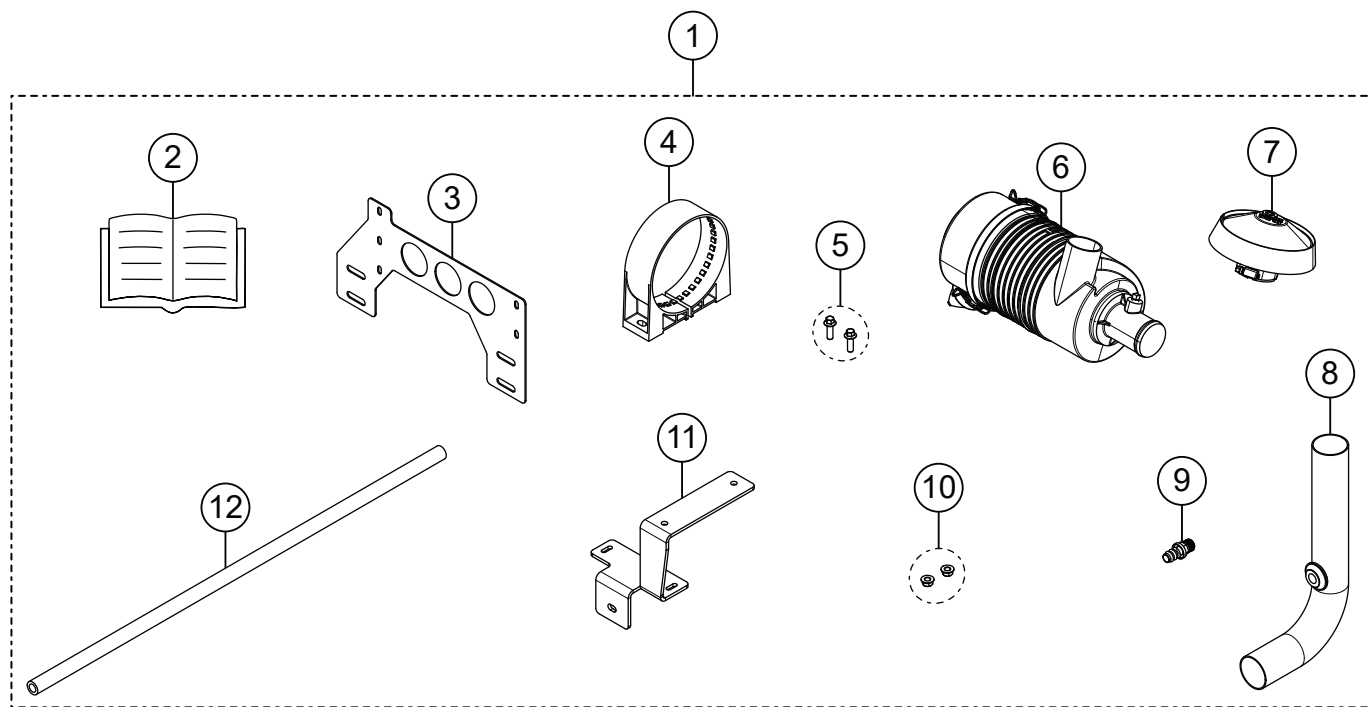


Figure 1. MD82 Air Intake Service Kit Components

WORK SAFELY!

Only a **qualified service technician** with proper training should perform this installation. Follow all shop safety rules when performing this installation.

PREPARATION

1. Place the trowel on secure, level ground in an area that is free of dirt and debris.
2. Make sure the trowel is turned **OFF** and the engine is cool.

REMOVAL OF EXISTING COMPONENTS

1. Remove the **front panel** (Figure 2).

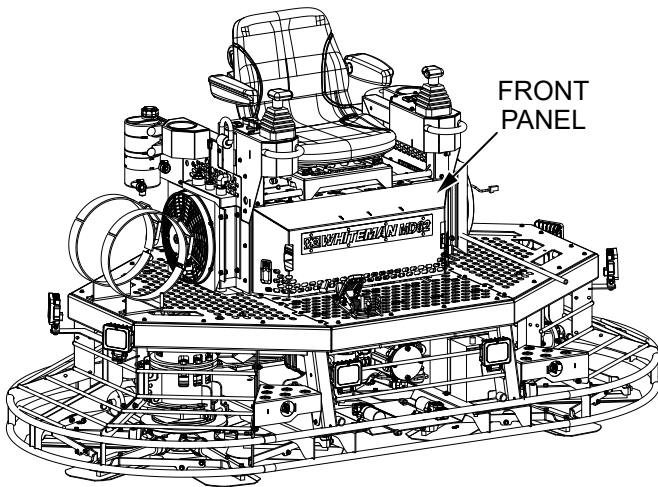


Figure 2. Remove Front Panel

2. Disconnect the **CCV hose** (Figure 3) from the vent.

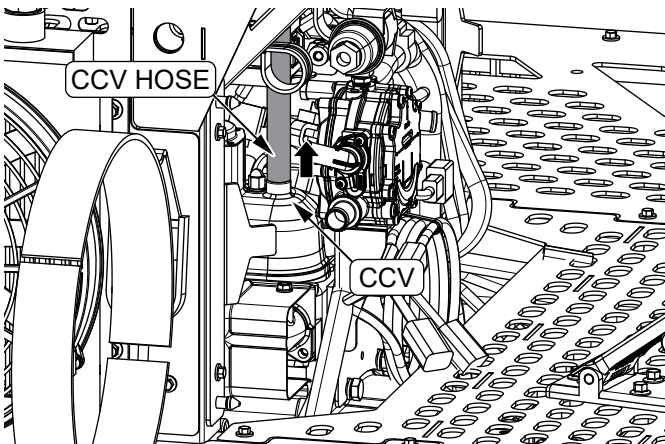


Figure 3. Disconnect CCV Hose

3. Loosen (but do not remove) the **CCV hose clamp** (Figure 4).

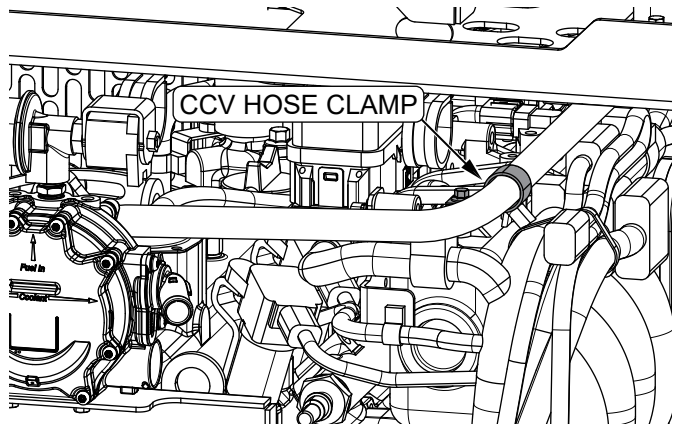


Figure 4. Loosen CCV Hose Clamp

4. Remove the **two M8-1.25 × 16 mm hex flange screws** (Figure 5) securing the existing **air cleaner** to the **air cleaner bracket**.

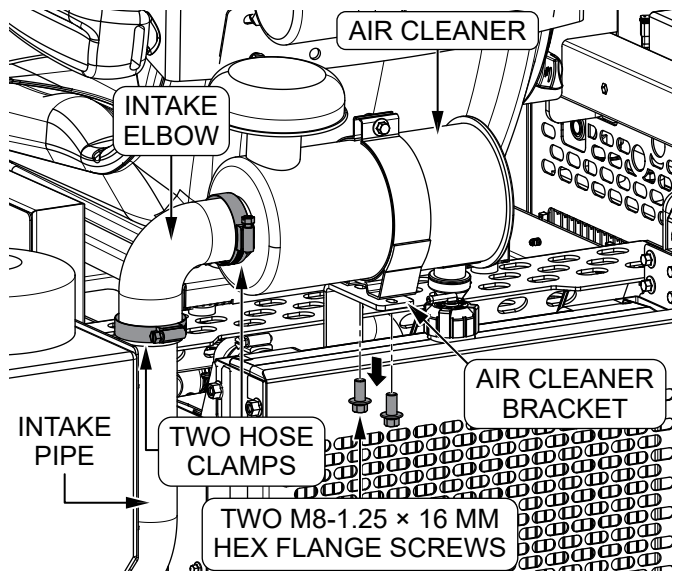
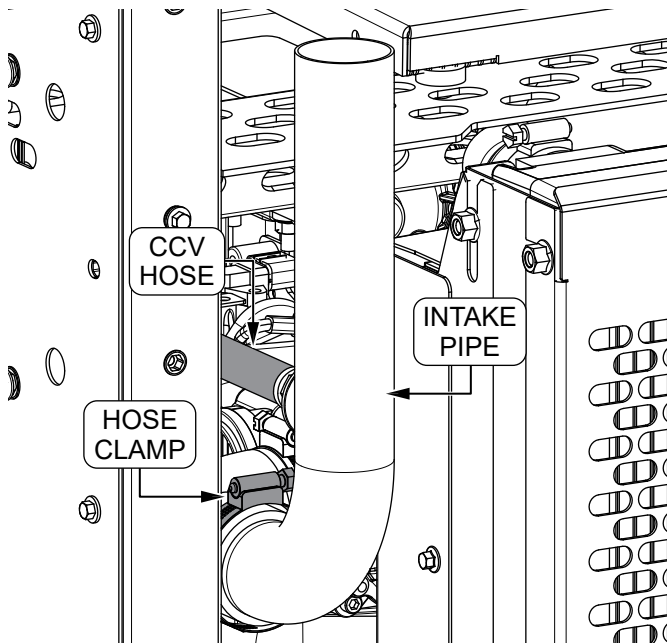


Figure 5. Remove Air Cleaner Assembly

5. Loosen the **two hose clamps** (Figure 5) securing the existing air cleaner assembly to the **intake pipe**. Remove the air cleaner and the **intake elbow**. Save the clamps and intake elbow for later.

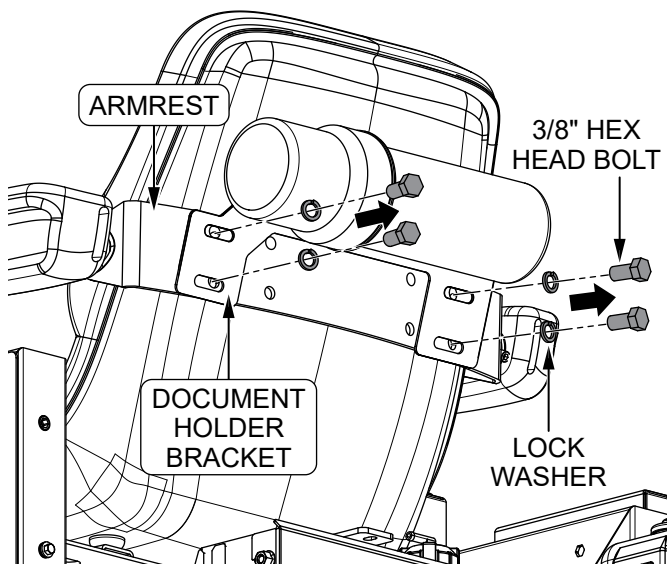
6. Loosen the **intake pipe hose clamp** (Figure 6) and remove the **intake pipe** (including the **CCV hose**).



NOTE: RETARDANT TANK NOT SHOWN FOR CLARITY

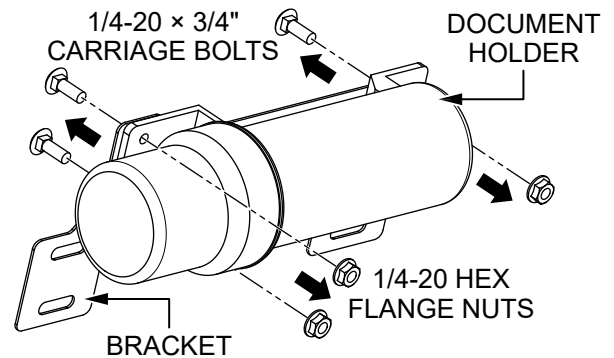
Figure 6. Remove Intake Pipe With CCV Hose

7. Remove the **four 3/8" hex head bolts and lock washers** (Figure 7) securing the **armrest** and **document holder bracket** to the seat.



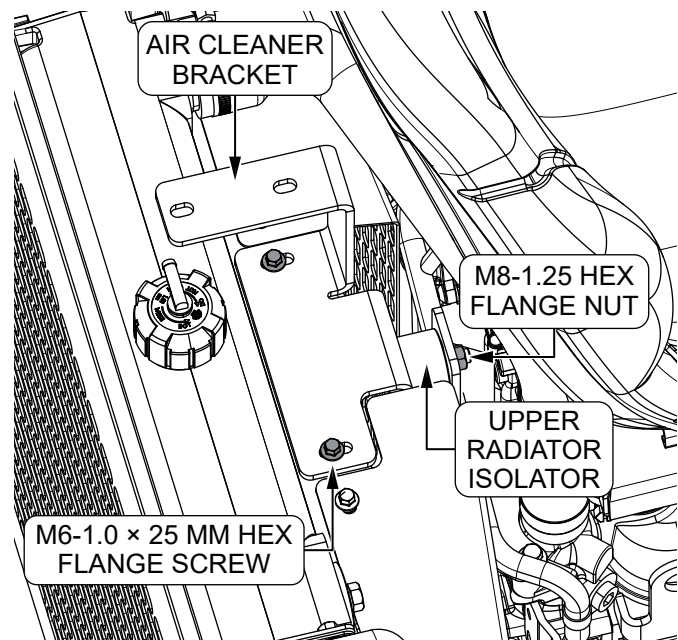
**Figure 7. Remove Armrest
And Document Holder Bracket**

8. Remove the **three 1/4-20 × 3/4" carriage bolts** and **1/4-20 hex flange nuts** securing the **document holder** to the **document holder bracket**. Save the document holder, the armrest, and all of the hardware for later.



**Figure 8. Remove Document Holder
From Bracket**

9. Remove the **M8-1.25 hex flange nut** (Figure 9) securing the **upper radiator isolator** to the thermostat housing mount. Then remove the **two M6-1.0 × 25 mm hex flange screws** securing the **air cleaner bracket** to the radiator, and remove the air cleaner bracket. Save the hardware for later.



NOTE: ELECTRICAL PANEL NOT SHOWN FOR CLARITY

Figure 9. Remove Air Cleaner Bracket

10. Remove the **M8-1.25 × 16 mm hex flange screw** securing the upper radiator isolator (Figure 10) to the air cleaner bracket. Save the isolator and hardware for later.

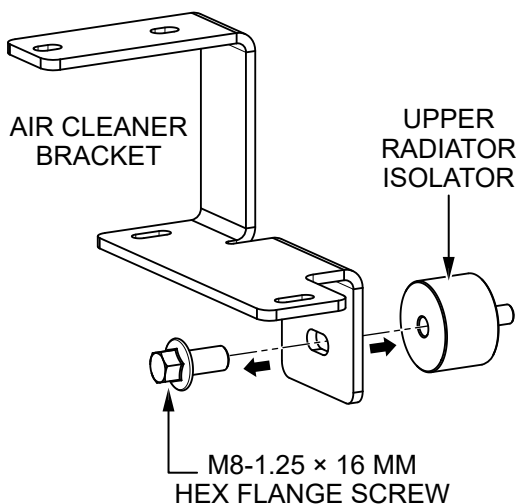


Figure 10. Remove Upper Radiator Isolator

KIT INSTALLATION

1. Secure the **upper radiator isolator** to the **new air cleaner bracket (P/N 52230)** using the **M8-1.25 × 16 mm hex flange screw** that was removed during the last step.

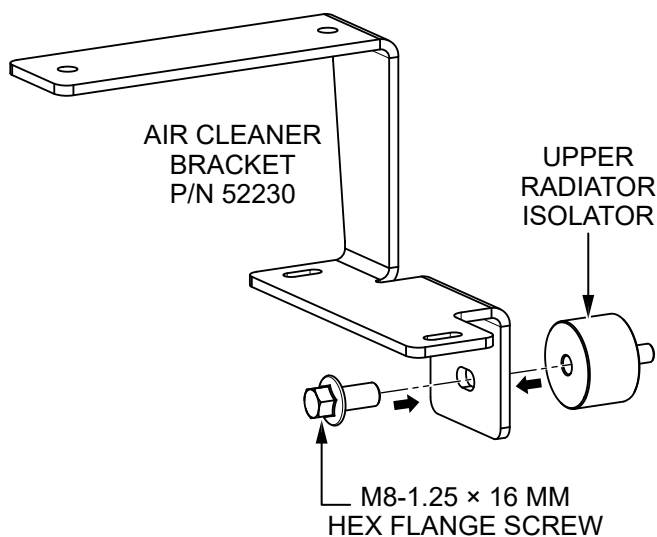
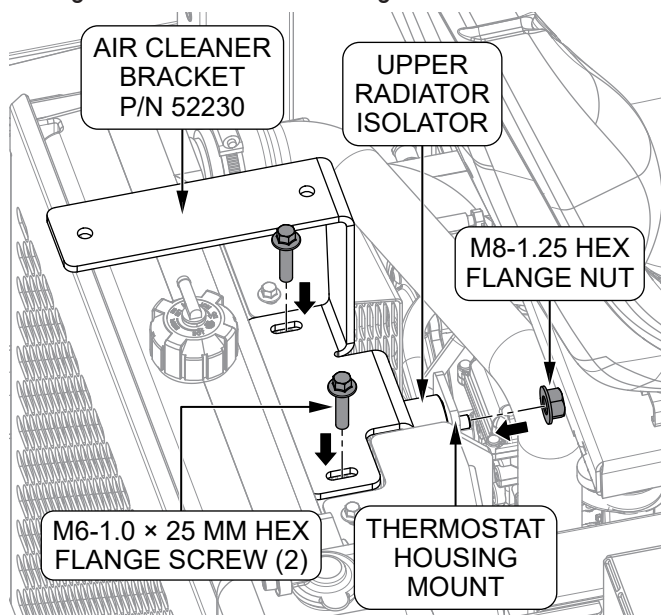


Figure 11. Install Upper Radiator Isolator Onto New Air Cleaner Bracket

2. Secure the **air cleaner bracket (P/N 52230)** and **upper radiator isolator** to the radiator and **thermostat housing mount** using the **M8-1.25 hex flange nut** and **two M6-1.0 × 25 mm hex flange screws** that were removed during step 9. Before tightening the hardware, adjust the bracket so the radiator is vertical when the isolator is against the thermostat housing mount. Then tighten all hardware. See Figure 12.



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Figure 12. Install Air Cleaner Bracket

3. Secure the **document holder** to the **new document holder bracket (P/N 43979)** using the **three 1/4-20 × 3/4" carriage bolts** and **1/4-20 hex flange nuts** that were removed during step 8.

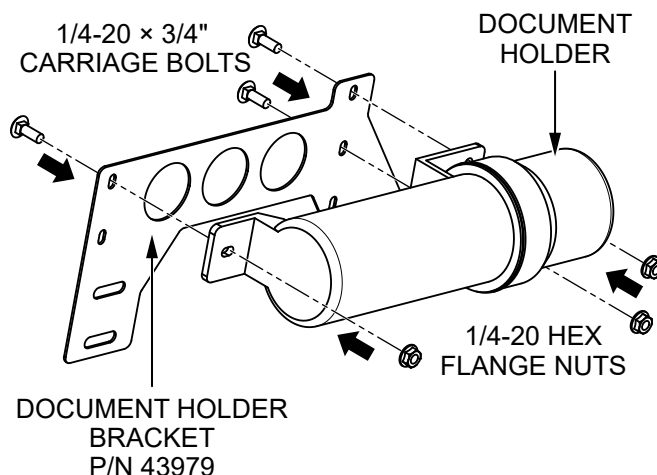


Figure 13. Install Document Holder Onto New Bracket

4. Secure the **document holder bracket (P/N 43979)** and **armrest** to the seat using the **four 3/8" hex head bolts and lock washers** that were removed during step 7. See Figure 14.

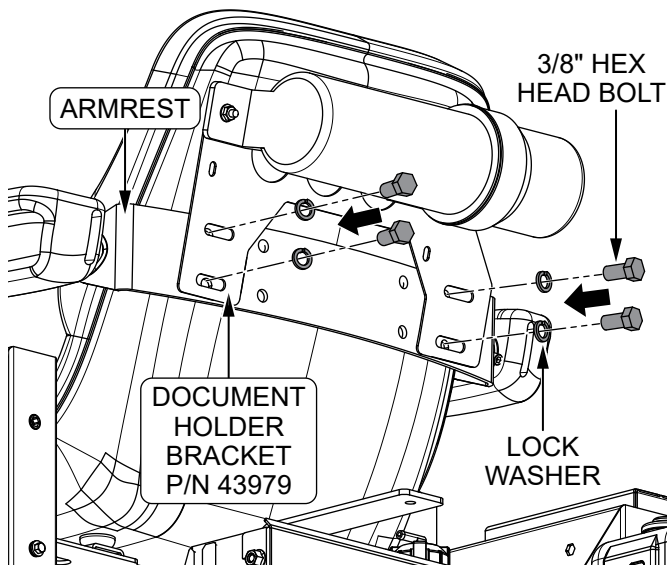


Figure 14. Install Armrest And Document Holder Bracket

5. Install the **brass fitting (P/N 369007)** onto the **new intake pipe (P/N 52232)** and tighten securely.

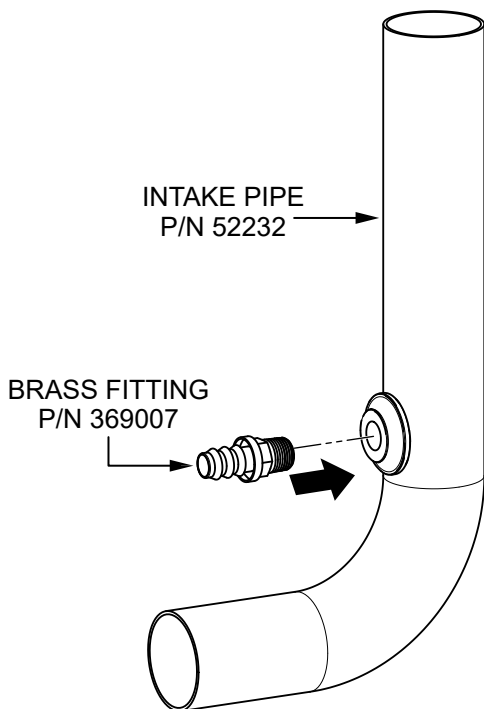
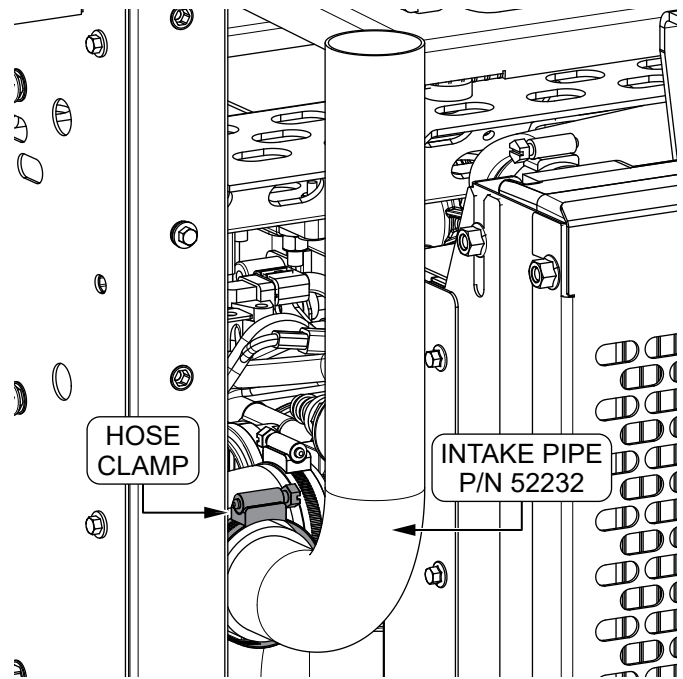


Figure 15. Install Brass Fitting

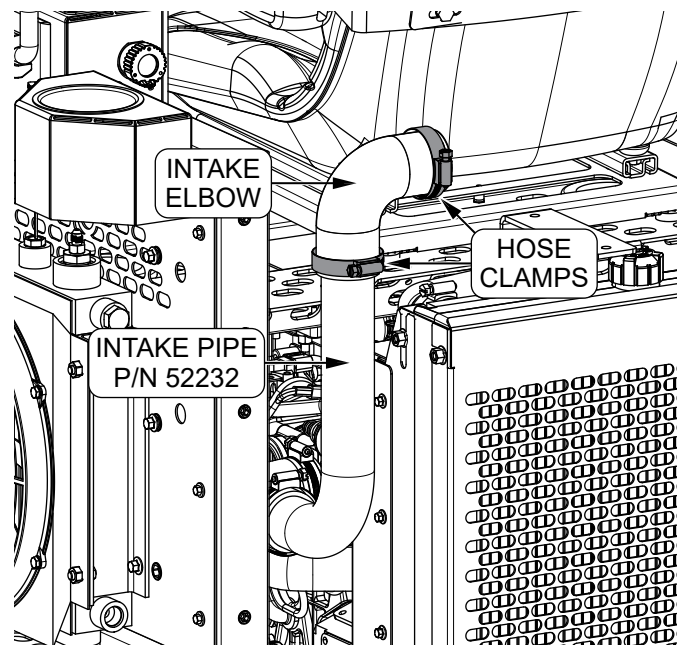
6. Secure the **intake pipe (P/N 52232)** to the intake coupler using the existing **hose clamp**. Make sure the long end of the intake pipe is vertical before tightening the clamp. See Figure 16.



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Figure 16. Install Intake Pipe

7. Secure the **intake elbow** to the **intake pipe (P/N 52232)** using one of the **two hose clamps** that were removed during step 5 of the **Removal of Existing Components** section. Place the other hose clamp onto the open end of the intake elbow as shown in Figure 17.



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Figure 17. Install Intake Elbow

8. Install the **air cleaner mounting clamp (P/N 48202-29)** onto the **new air cleaner (P/N 48202-27)** as shown in Figure 18. Then insert the air cleaner into the **intake elbow** until the **filter minder port** rests against the elbow as shown.

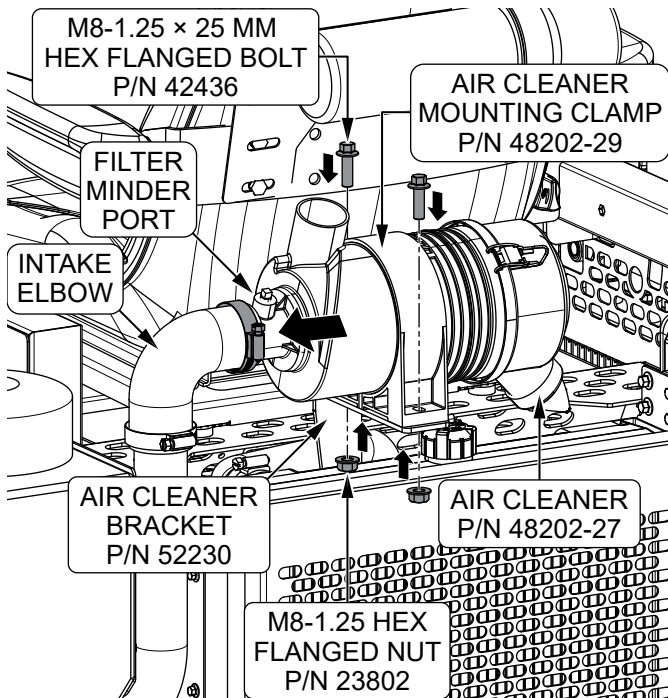


Figure 18. Install Air Cleaner

9. Rotate the **air cleaner (P/N 48202-27)** to approximately the position shown in Figure 18. Adjust as needed to ensure the mounting clamp holes line up with the holes in the **air cleaner bracket (P/N 52230)**. Then secure the air cleaner to the bracket using the **two M8-1.25 x 25 mm hex flanged bolts (P/N 42436)** and **two M8-1.25 hex flanged nuts (P/N 23802)**. Tighten all hardware and hose clamps.

10. Secure the **rain cap (P/N 48202-30)** to the air cleaner (P/N 48202-27) with the included **rain cap hose clamp**. See Figure 19.

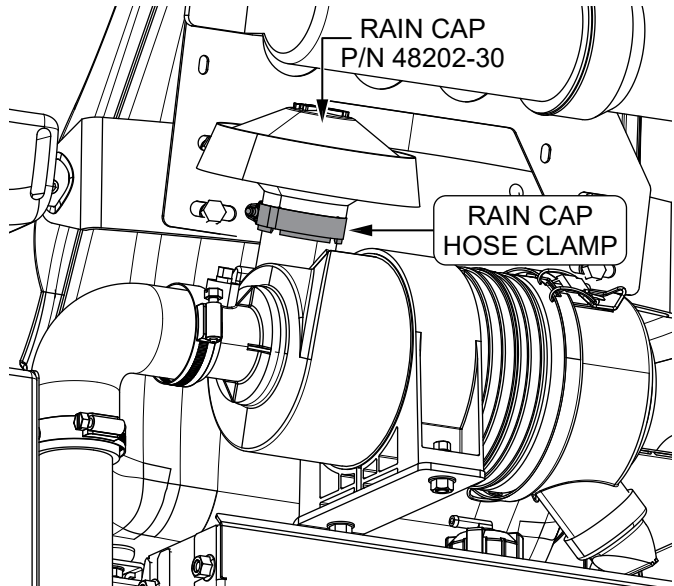


Figure 19. Install Rain Cap

11. Route the **new CCV hose (P/N EE60377)** from the rear of the engine bay to the front, through the **CCV hose clamp** that was loosened earlier (Figure 20). Then connect the hose to the **CCV** (Figure 21).

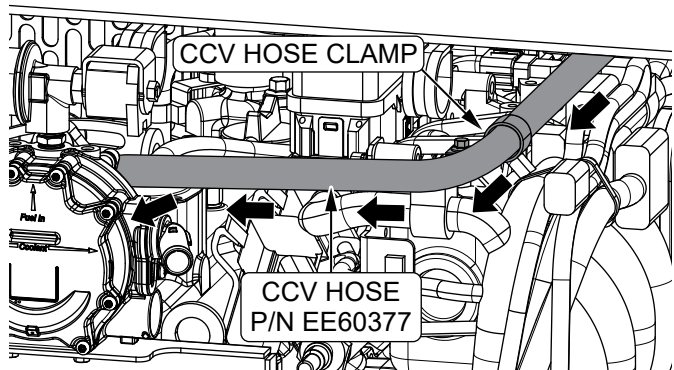


Figure 20. Route CCV Hose Through Clamp

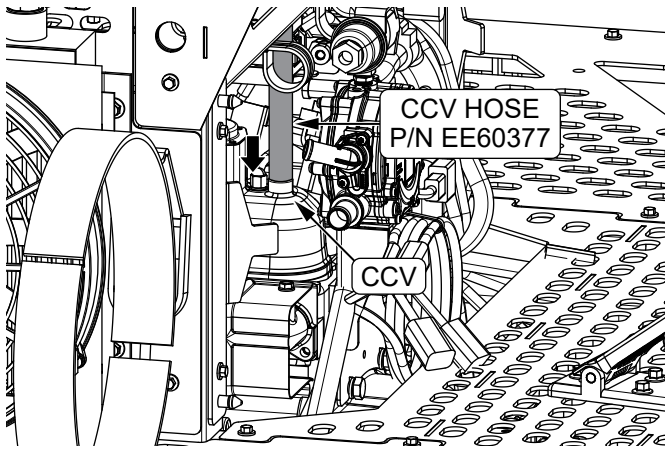
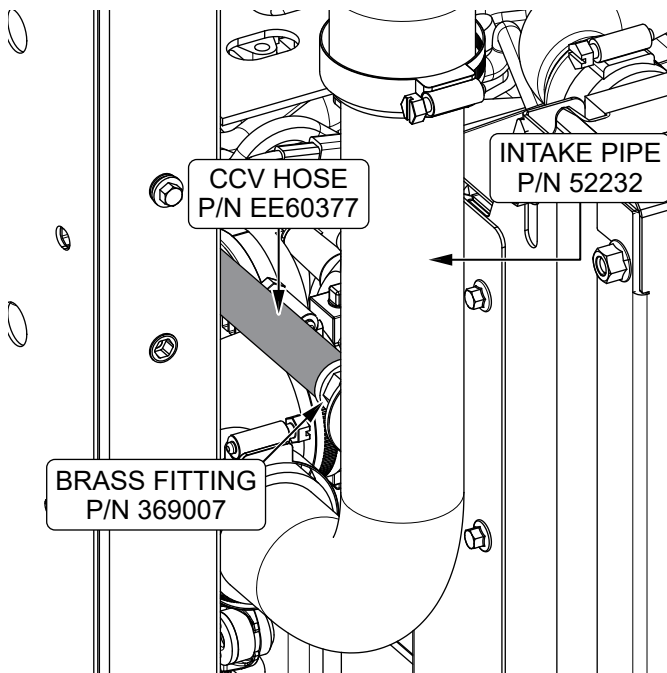


Figure 21. Connect CCV Hose To CCV

12. Connect the other end (Figure 22) of the **CCV hose (P/N EE60377)** to the **brass fitting (P/N 369007)** installed on the **intake pipe (P/N 52232)**. Tighten the **CCV hose clamp (Figure 20)**.



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Figure 22. Connect CCV Hose To Intake Pipe



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HERE'S HOW TO GET HELP

PLEASE HAVE THE MODEL AND SERIAL
NUMBER ON-HAND WHEN CALLING

UNITED STATES

Multiquip Inc.

(310) 537- 3700
6141 Katella Avenue Suite 200
Cypress, CA 90630
E-MAIL: mq@multiquip.com
WEBSITE: www.multiquip.com

CANADA

Multiquip

(450) 625-2244
4110 Industriel Boul.
Laval, Quebec, Canada H7L 6V3
E-MAIL: infocanada@multiquip.com

UNITED KINGDOM

Multiquip (UK) Limited Head Office

0161 339 2223
Unit 2, Northpoint Industrial Estate,
Globe Lane,
Dukinfield, Cheshire SK16 4UJ
E-MAIL: sales@multiquip.co.uk

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