



M-6766-B23, M-6766-R23A  
2021-2024 Bronco, 2020-2024 Ranger  
2.3L Bronco/Ranger Oil-Air Separator kit

NO PART OF THIS DOCUMENT MAY BE REPRODUCED WITHOUT PRIOR WRITTEN PERMISSION OF FORD PERFORMANCE PARTS  
© Ford Motor Company 2021

**PRIOR TO INSTALLATION READ THESE INSTRUCTION COMPETELY**  
**For questions, Call the FORD PERFORMANCE Techline 1-800-367-3788**

Please visit <https://www.performanceparts.ford.com> for warranty information

**Kit contents:**

- (1) CM-6766-R23 oil separator
- (1) CM-6K817-B23L or CM-6K817-R23L inlet PCV hose
- (1) CM-6K817-B23U outlet PCV hose
- (1) CM-BRKT-M23B bracket
- (2) W520201-S440 M6 nut



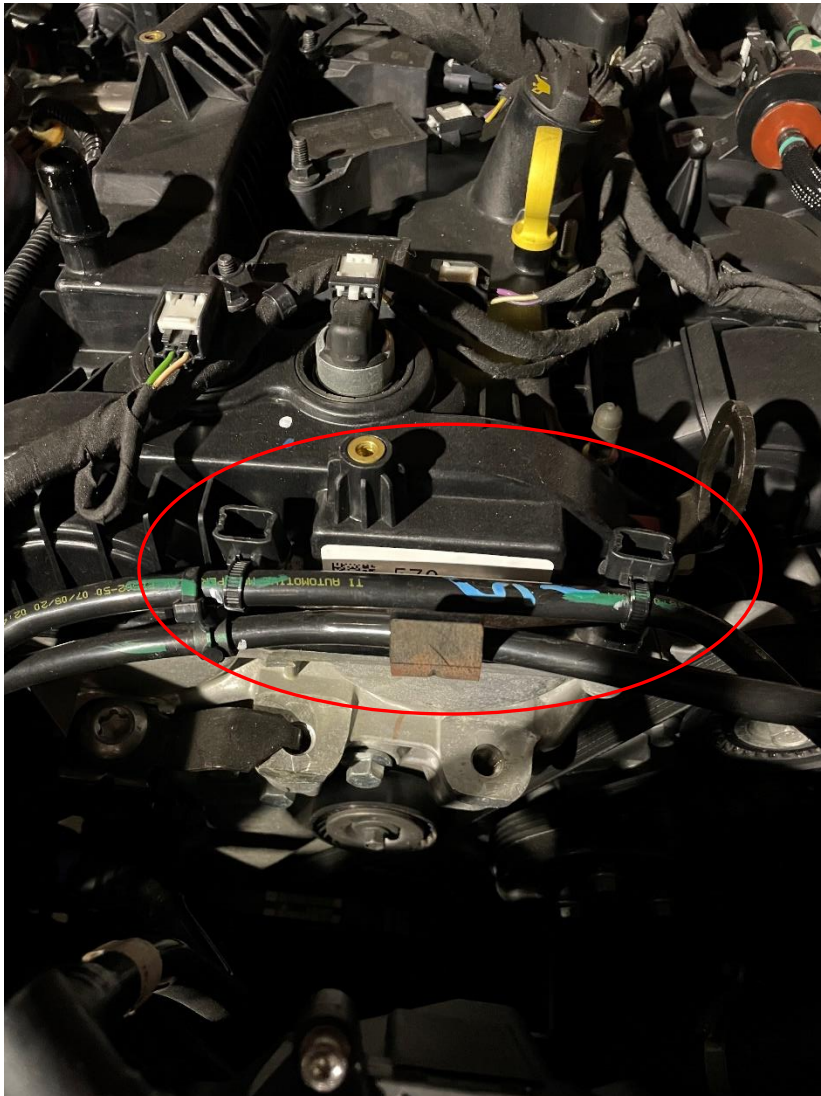
**Remove vacuum line retainers from camcover studbolts, then install bracket over camcover studbolts and install (2) nuts. Torque to 10nm (88lbin).**

Ford Factory Shop Manual purchase options [www.motorcraftservice.com](http://www.motorcraftservice.com)



M-6766-B23, M-6766-R23A  
2021-2024 Bronco, 2020-2024 Ranger  
2.3L Bronco/Ranger Oil-Air Separator kit

NO PART OF THIS DOCUMENT MAY BE REPRODUCED WITHOUT PRIOR WRITTEN PERMISSION OF FORD PERFORMANCE PARTS  
© Ford Motor Company 2021



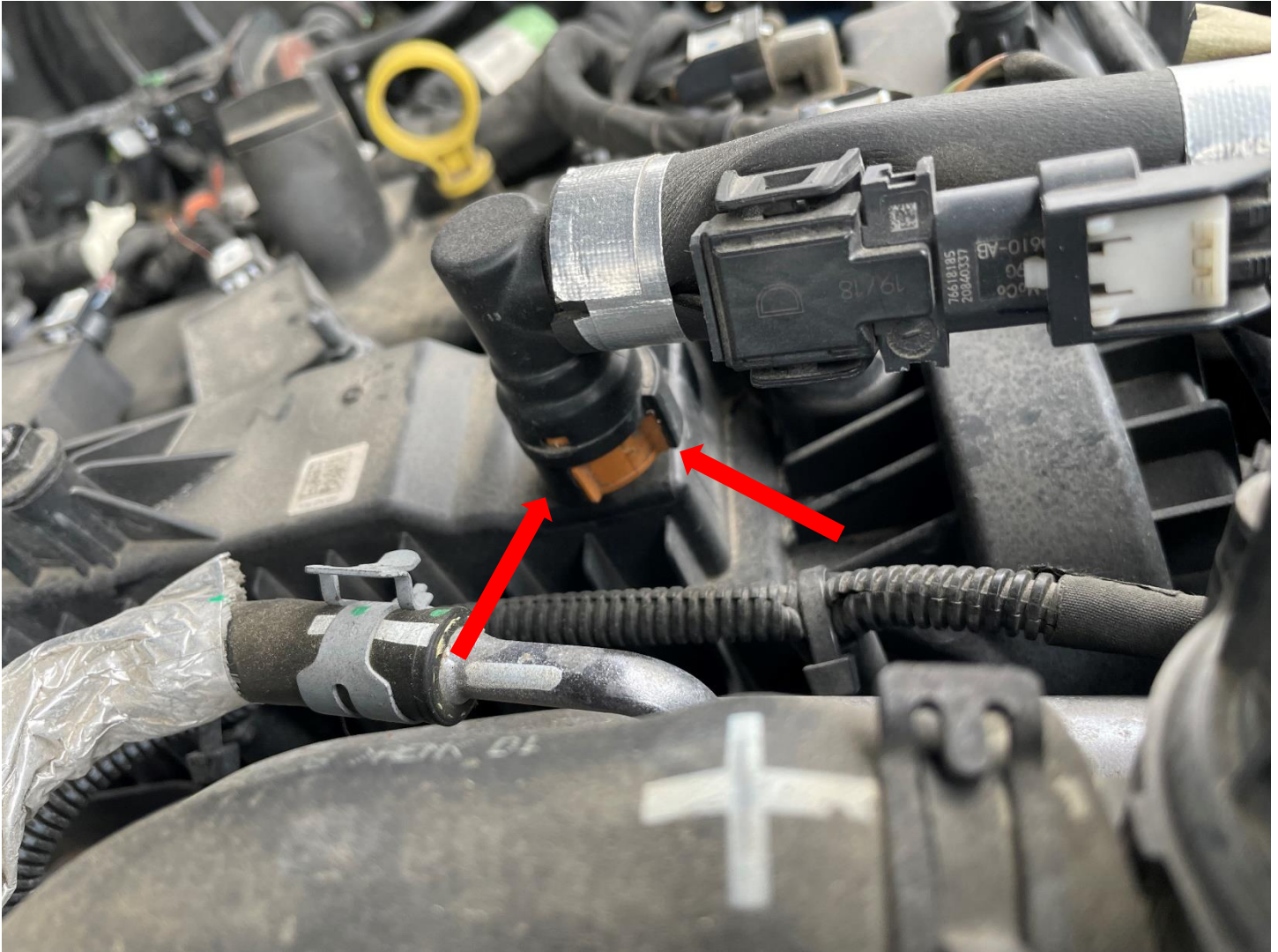
**Install retainers back  
over studbolts as  
shown.**

Ford Factory Shop Manual purchase options [www.motorcraftservice.com](http://www.motorcraftservice.com)



NO PART OF THIS DOCUMENT MAY BE REPRODUCED WITHOUT PRIOR WRITTEN PERMISSION OF FORD PERFORMANCE PARTS  
© Ford Motor Company 2021

**NOTE: Illustration below is for Ranger 2.3L. Bronco 2.3L is very similar and sensor shown is not applicable.**



- 1) If your vehicle is equipped with the Orange colored connector, gently pry upward on the bottom of the connector (2 screwdrivers on either side work best) to break the connector from the camcover spigot. This breakage is normal as the connector is considered not serviceable.
- 2) The lower connector of the PCV tube will be the Orange style (requiring breakage) or the Grey style, that simply requires the tab to be pulled back to release the connector from its spigot.

Ford Factory Shop Manual purchase options [www.motorcraftservice.com](http://www.motorcraftservice.com)

NO PART OF THIS DOCUMENT MAY BE REPRODUCED WITHOUT PRIOR WRITTEN PERMISSION OF FORD PERFORMANCE PARTS  
© Ford Motor Company 2021



**This removal will break the (3) locking tangs on the Orange connector. This is normal and necessary to remove the tamper-proof connector from the camcover spigot.**

## System Installation



**Lightly lubricate inner O-rings with engine oil and firmly connect lower PCV tube connector to induction tube spigot.**

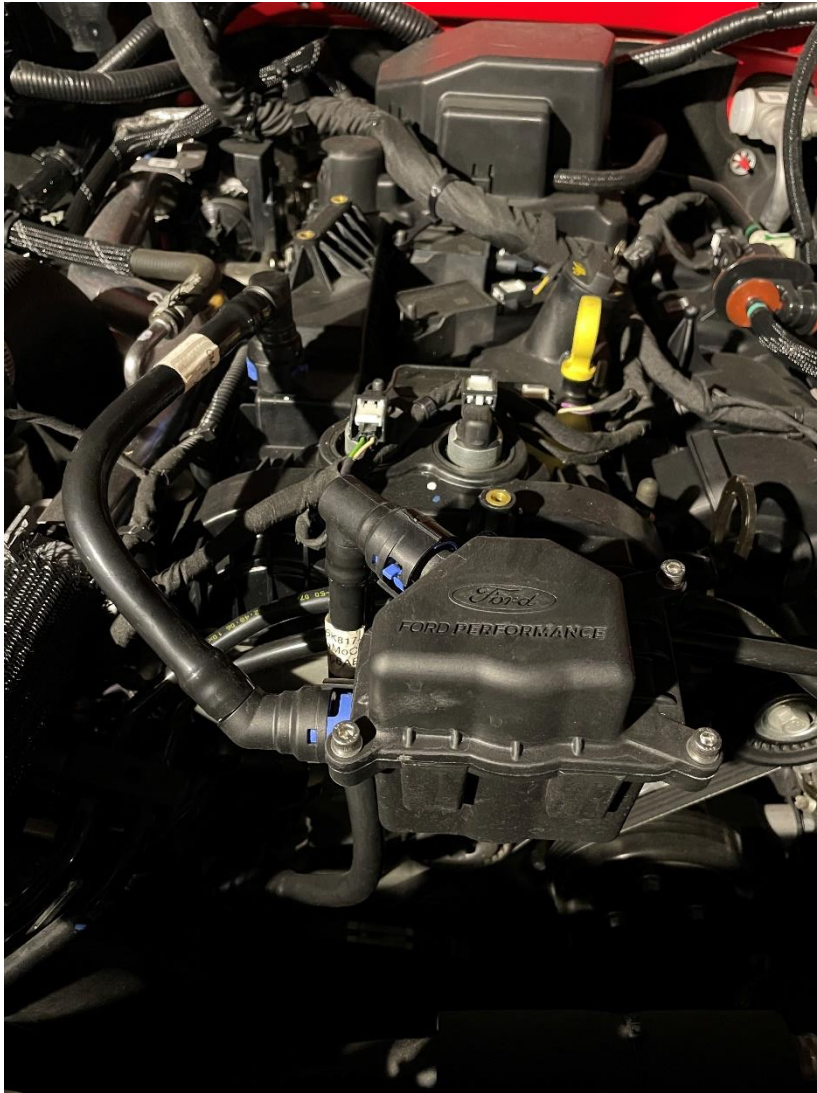
Ford Factory Shop Manual purchase options [www.motorcraftservice.com](http://www.motorcraftservice.com)





M-6766-B23, M-6766-R23A  
2021-2024 Bronco, 2020-2024 Ranger  
2.3L Bronco/Ranger Oil-Air Separator kit

NO PART OF THIS DOCUMENT MAY BE REPRODUCED WITHOUT PRIOR WRITTEN PERMISSION OF FORD PERFORMANCE PARTS  
© Ford Motor Company 2021



- 1) Install oil separator on bracket, sliding down firmly into place.
- 2) Lightly lubricate inside of PCV connectors with thin film of oil and snap onto camcover, oil separator, and induction tube spigots. Make sure to install completely listening for clicking sound and looking for blue tab on connector to be locked.

Ford Factory Shop Manual purchase options [www.motorcraftservice.com](http://www.motorcraftservice.com)