

# Cadillac® 368, 425, 472 & 500 Valve Covers by PML

## Information on PCV, Breather and Oil Fill Holes

This document applies to PML Cadillac Engine Valve Covers with Part Numbers:

- 7872-1 Plain Top Design, Natural As Cast Finish
- 7872-2 Engraved CADILLAC script, Polish finish
- 7872-8 Raised CADILLAC script, choice of finishes
- 11163 Raised 1949 style CADILLAC script and fins, choice of finishes

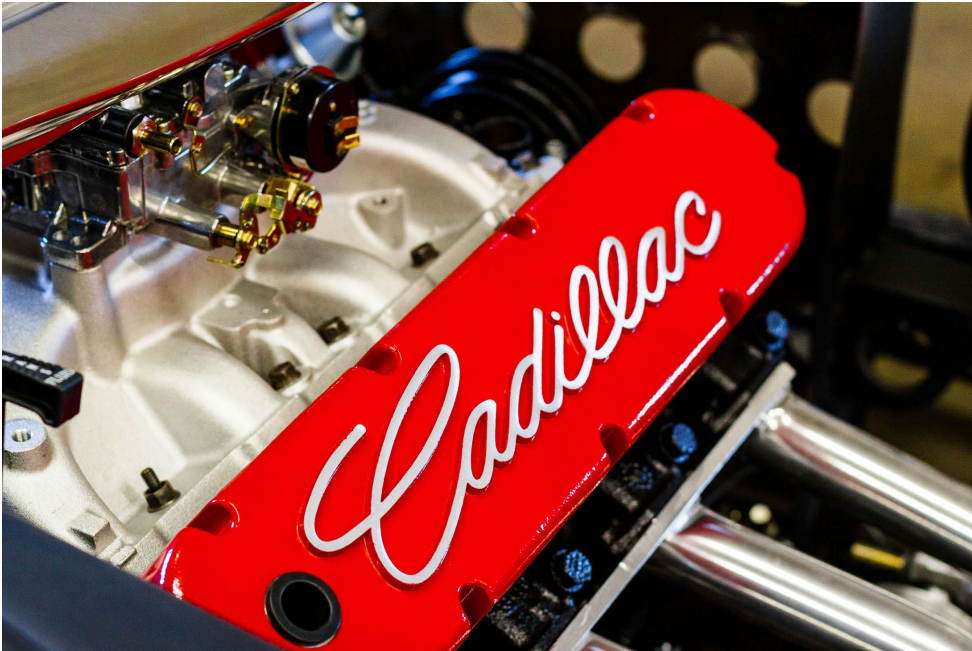
Pictures are representative of ALL the above part numbers.

### Introduction

PML Cadillac valve covers are made without holes. If needed, PML can add machine holes to suit the particular engine.

PML has a machine shop on site. Allow a day or two.

NOTE: Machining operations and oil fill cap are optional and carry an additional charge.



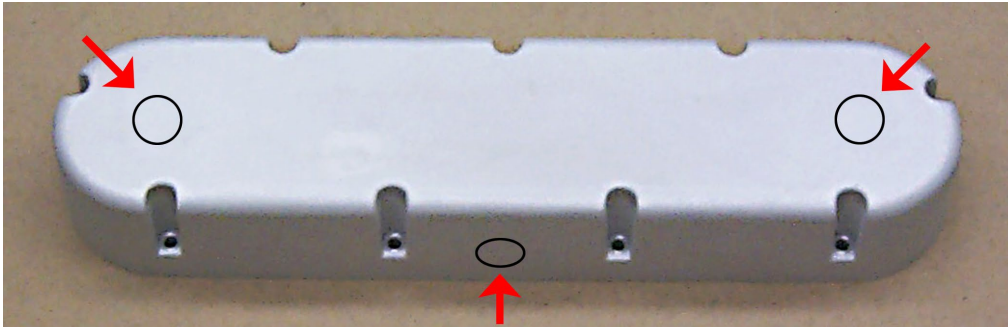
Example of a PML valve covers machined with a breather hole and a grommet installed.

Valve covers are PML Part Number 7872-8 with the raised CADILLAC script and are in red powder coat finish.

Check the engine configuration carefully before ordering machining PCV, breather and oil fill holes.

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## Possible Hole Locations



There are three possible locations for holes. Two are on the ends at the top and one is in the center on the intake manifold side of the cover.

Holes on the top can be machined for PCV, breather or an oil fill cap. The hole on the intake manifold side can be machined for PCV or breather.

On the top, PML designed two areas that can be machined for holes. These are areas marked by the donut shapes on the inside of the cover shown in this picture.



These donut areas add thickness for additional strength.

If a hole is machined for a PCV or breather, one of these holes can be used as an oil fill hole. A separate oil fill hole is not needed. If no PCV or breather hole is needed and an oil fill hole is, PML can drill and tap one of the top locations and provide an oil fill cap.

For PCV and breather holes, PML back faces and spot faces for a secure seal.

## Reasons to Avoid A Separate Oil Fill Hole

If the cover has PCV/breather holes on the top, PML recommends using the PCV hole for oil fill for 2 main reasons:

1. This saves money since a third machining operation and oil cap are not needed.
2. This makes for a cleaner appearance in the engine compartment.

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## Examples

Custom engines have many configurations and requirements. These pictures provide examples PML Cadillac valve covers that have been machined with holes for PCV, breather, and oil fill.



Raised CADILLAC script, Part Number 7872-8, custom blue powder coat, in a 1969 Deville.

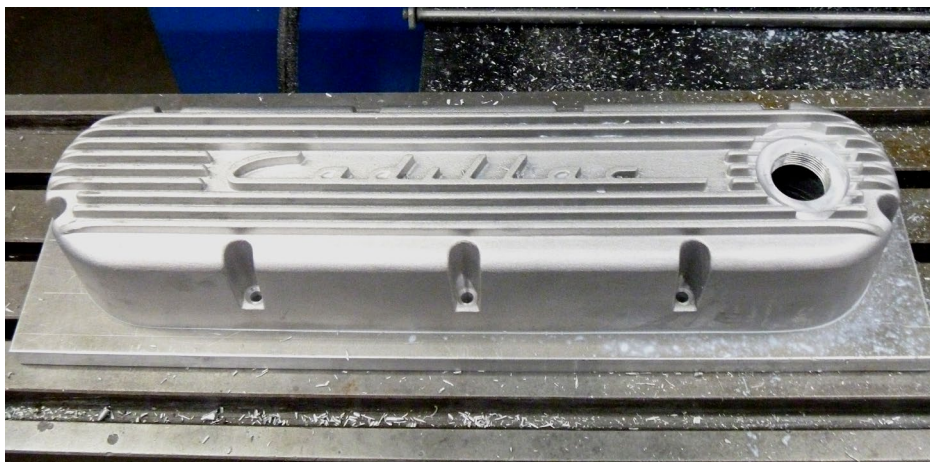
Three holes total. PCV and breather holes machined in the center on the intake manifold sides. PCV hole is on the passenger side cover. Breather hole has a push-in breather in the hole.

Hole on the top of the passenger's side valve for oil fill with billet oil cap.



Raised 1949 style CADILLAC script and fins, Part Number 11163, As-Cast Finish, one hole drilled and tapped.

Oil cap installed.



Hole without oil cap.

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## More Examples



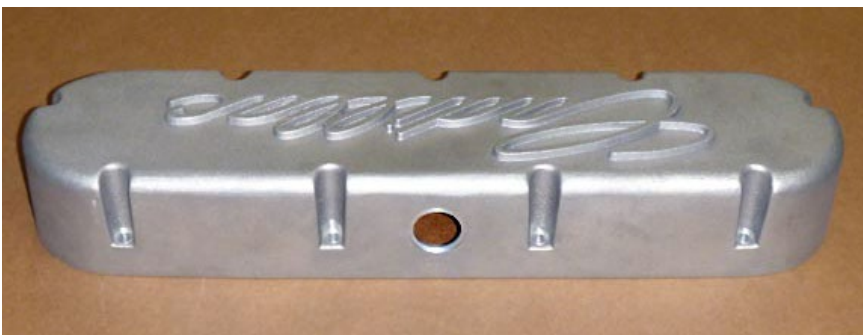
Flat Top Style, Plain, As-Cast Finish, Part Number 7872-1, with one hole for a PCV or breather hole



Raised CADILLAC script, Part Number 7872-8, As-Cast Finish, hole machined for breather grommet, breather grommet installed, breather cap installed. Note that this breather cap is large and overlaps the C in the script.



Raised CADILLAC script, red powder coat finish, Part Number 7872-8, oil fill hole with cap and PCV hole with grommet on one cover and breather hole with grommet on other cover.



Hole on intake manifold side, spot faced and back faced for a good seal.

Hole usually used for a PCV valve or a push-in breather that sits inside the hole.

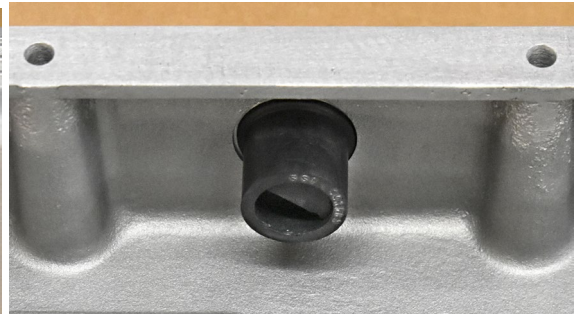
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## GROMMETS, OIL CAP, PUSH-IN BREATHER

Pictures below shows typical grommets used for PCV and breather holes, and a billet oil cap.



This is the push-in breather used in a hole machined on the intake manifold side. It is made of grommet material and is baffled. When installed it is nearly flush with the side of the valve cover. It sits inside the hole between the rockers.



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