



# **KRAL AUTO PARTS LLC**

## **Exhaust Manifold Bolt Repair Kits**

**Please scroll down to see all  
Engine Fitment Diagrams**



**KRAL AUTO PARTS LLC**  
**Exhaust Manifold Bolt Repair Kits**

**GMC - Chevrolet**  
**Engine Fitment Diagrams**

# GM LS V8 Engines

Years 1999 - 2013      4.8 Liter

Years 1999 - 2013      5.3 Liter

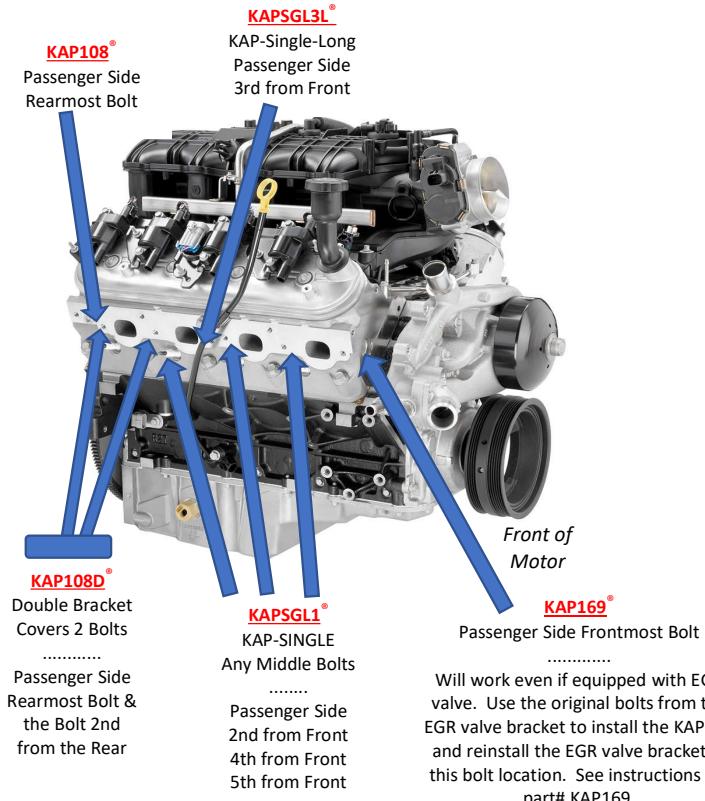
Years 1999 - 2019 and Newer      6.0 Liter

Years 1999 - 2013      6.2 Liter

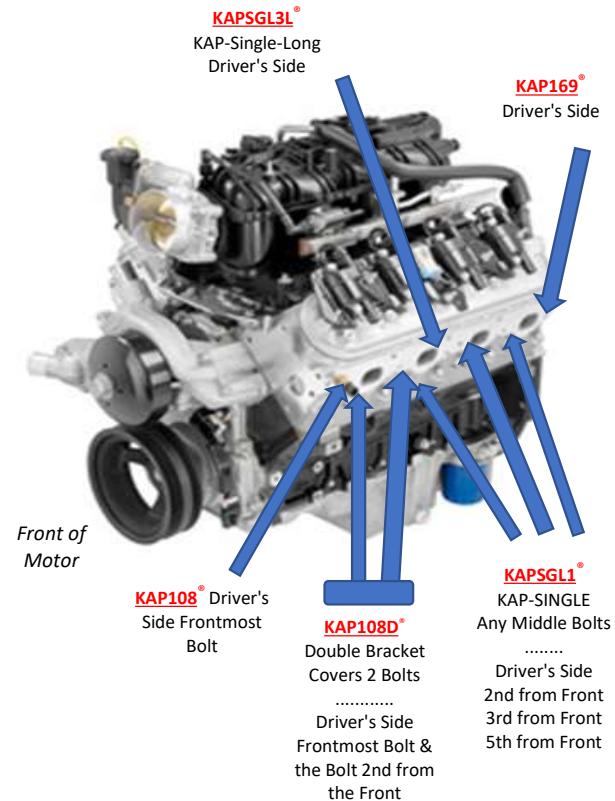
\*\* The oil dipstick tube will be located on the passenger side of the motor.

\*\* For year 2013 and newer engines with the oil dipstick tube on the driver side of the motor: please see the diagram for the GM Ecotec3

## Passenger Side



## Driver's Side



Do you have both the 3rd & 4th bolt from the front broken on the Passenger or Driver Side?

Use: Part# KAPSINGLED8

Repairs 2 bolts with one bracket.

3rd & 4th bolt from the front on the driver side and/or 3rd & 4th bolt from the front on the passenger side.

**Chevy CORVETTE:**

Use: Part# KAP108VETTE

\*\*Year 1999 - Current 6.0L and 6.2L LS engine with "Large Exhaust Port"

Passenger Rearmost and/or Driver Frontmost exhaust manifold bolt.

# GM LS Ecotec3 V8 Engines

Years 2013 & Newer

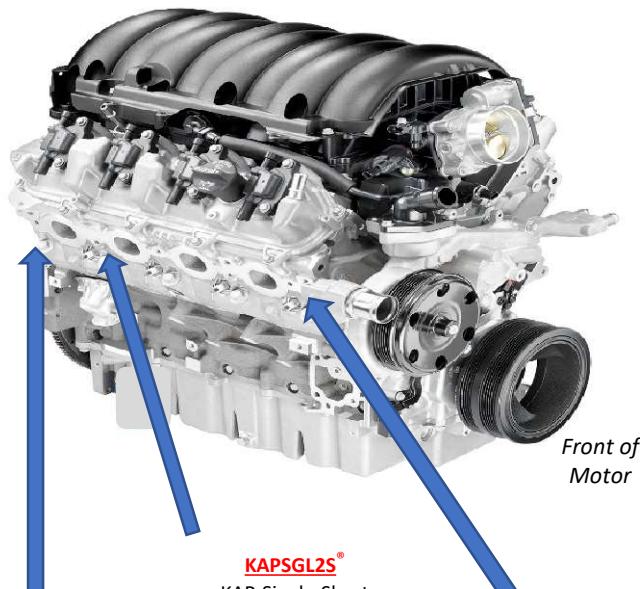
4.8 | 5.3 | 6.2 | 6.6 Liter Engines

\*\* To identify an Ecotec3 direct injection engine:

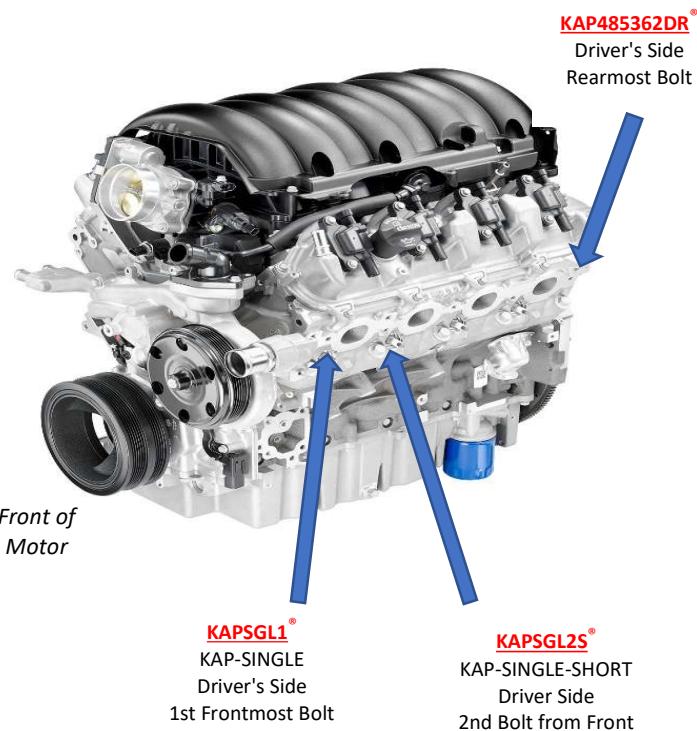
The oil dipstick will either be located on the driver's side of the engine - or - it will be mounted to the front of the passenger side cylinder head.

\*\* For year 2013 or 2014 engines with the oil dipstick tube mounted at the center of the cylinder head on the passenger side of the engine:  
please see the diagram for the GM 1999-2013 LS V8

## Passenger Side



## Driver's Side



## GM Small Block V8

4.3L - 265 cu in | 5.0 Liter - 305 cu in | 5.7 Liter - 350 cu in

Non LT1 with manifold running below the spark plugs

Years 1978 - 2003

\*\*Please call before ordering if you have headers on this motor and have questions on fitment.

These brackets may fit on older model small block Chevys. Please call for fitment information.

### Passenger Side



**KAP57P**  
Passenger Side  
Rearmost Bolt  
\*\*Stock-no headers  
\*\* Exhaust Manifold Running  
below the spark plugs



**KAP57DHDR**  
Passenger Side  
Rearmost Bolt  
\*\*For engines with aftermarket

Using this bracket on this bolt  
application will require modification  
to the existing bracketing on your  
engine.

### Driver's Side



**KAP57D**  
Driver's Side  
Rearmost Bolt  
\*\*Stock-no headers

**KAP57P**  
Driver's Side  
Frontmost Bolt  
\*\*Stock-no headers  
\*\* Exhaust Manifold Running below  
the spark plugs

**KAP57PHDR**  
Driver's Side  
Rearmost Bolt  
\*\*For engines with  
aftermarket  
HEADERS

Using this bracket on this bolt  
application will require  
modification to the existing  
bracketing on your engine.

Do you have an exhaust manifold running above the spark plugs?

Passenger rearmost bolt broken?

Use: Part **KAP57PROP**

# GM Small Block LT1 V8 Engines

Mini LT1 265 | LT1 350 5.7 Liter  
Years 1992 - 1999

Passenger Side



**KAP57LT1PR**  
Passenger Side  
Rearmost Bolt

Driver's Side

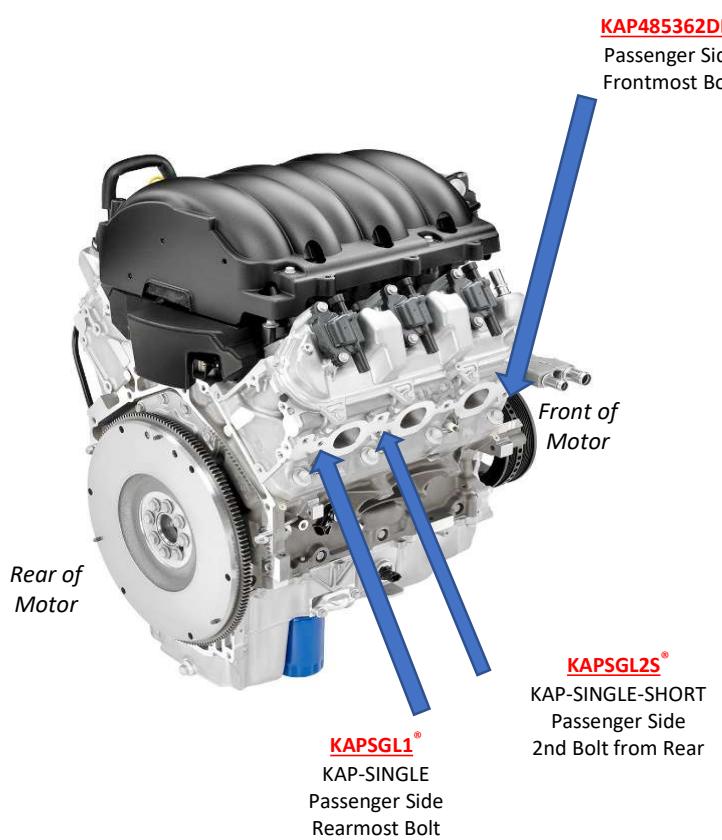


**KAP57LT1DR**  
Driver's Side  
Rearmost Bolt

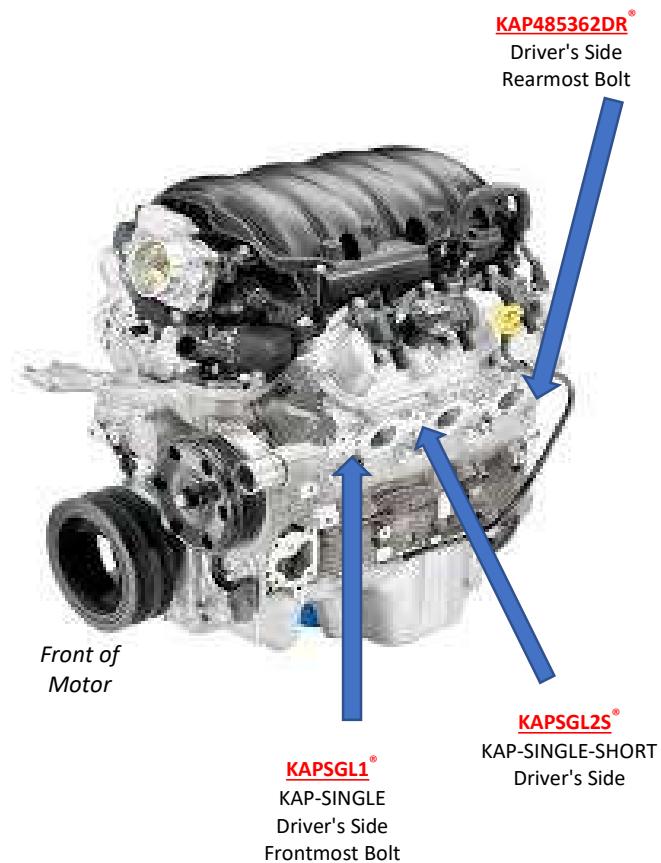
# GM Ecotec3 V6

4.3 Liter  
Years 2013 - Current

## Passenger Side



## Driver's Side



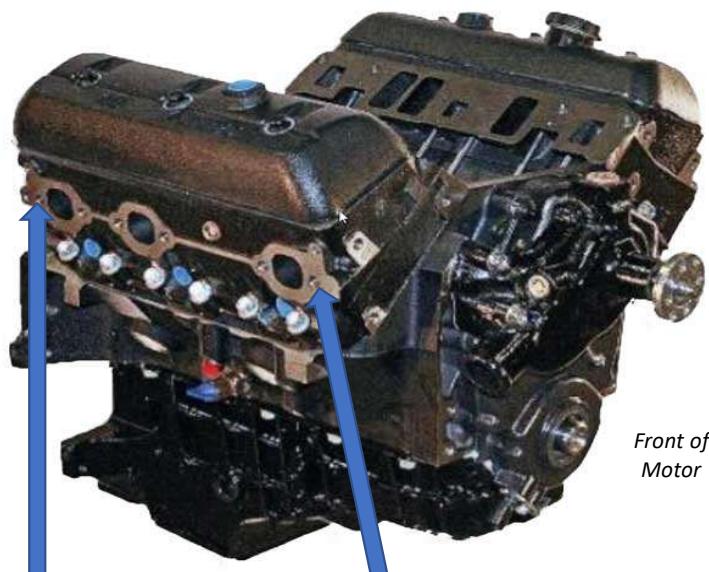
# GM Vortec V6

4.3 Liter

Years 1987 - 2013

\*\*Please call before ordering if you have headers on this motor.

## Passenger Side



**KAP57P**  
Passenger Side  
Rearmost Bolt

**KAP43D**  
Passenger Side  
Frontmost Bolt

Using this bracket on this bolt application  
will require modification to the existing  
bracketing on your engine.

## Driver's Side



**KAP43D**  
Driver's Side  
Rearmost Bolt

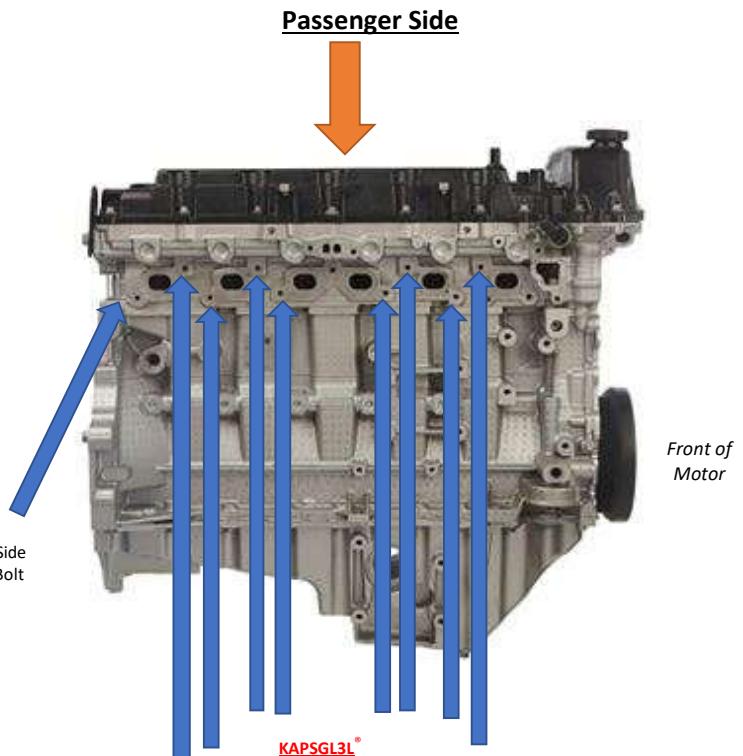
**KAP57P**  
Driver's Side  
Frontmost Bolt

Using this bracket on this bolt application will  
require modification to the existing bracketing  
on your engine.

## GM Inline 6

4.2 Liter | 6 Cylinder LL8

Years 2002 - 2009



**KAP-SGL3L\***  
KAP-SINGLE-LONG  
Passenger Side  
2nd Bolt from Front  
3rd Bolt from Front  
4th Bolt from Front  
5th Bolt from Front  
7th Bolt from Front  
8th Bolt from Front  
9th Bolt from Front

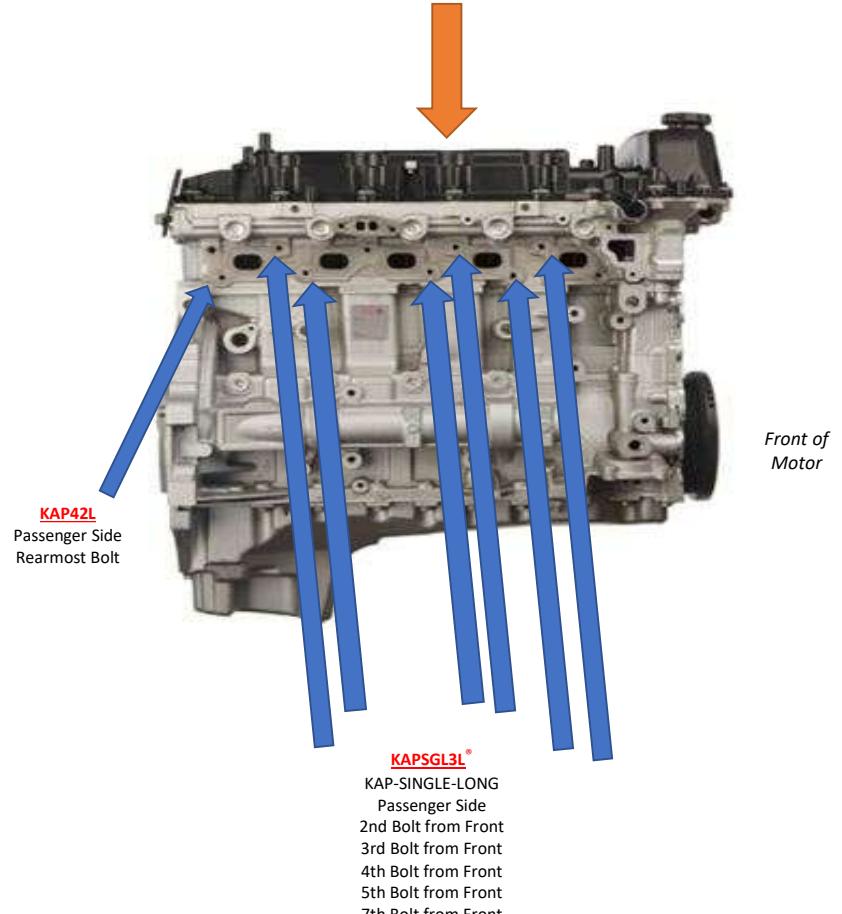
.....  
\*\*Please call to order the **KAP-SGL3L\***  
for this motor. The retaining/mounting bolt  
for the bracket on this motor may vary.

## GM Inline 5 Cylinder

3.5 Liter | 3.7 Liter

Years 2002 - 2009

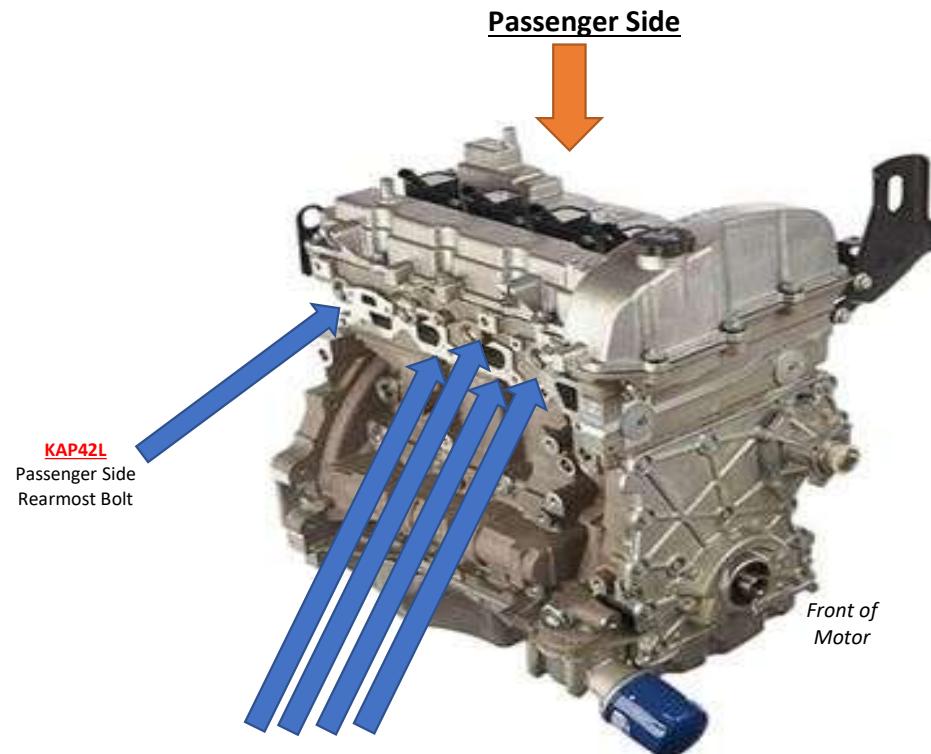
### Passenger Side



.....  
\*\*Please call to order the **KAPSGL3L\*** for this  
motor. The retaining/mounting bolt for the  
bracket on this motor may vary.

## GM Inline 4 Cylinder

2.8 Liter | 2.9 Liter | 4 Cylinder LK5  
Years 2002 - 2009



**KAPSGL3L®**  
KAP-SINGLE-LONG  
Passenger Side  
2nd Bolt from Front  
3rd Bolt from Front  
4th Bolt from Front  
5th Bolt from Front  
.....

\*\*Please call to order the **KAPSGL3L®** for this  
motor. The retaining/mounting bolt for the  
bracket on this motor may vary.



**KRAL AUTO PARTS LLC**  
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**GM BIG BLOCK**  
**Engine Fitment Diagrams**

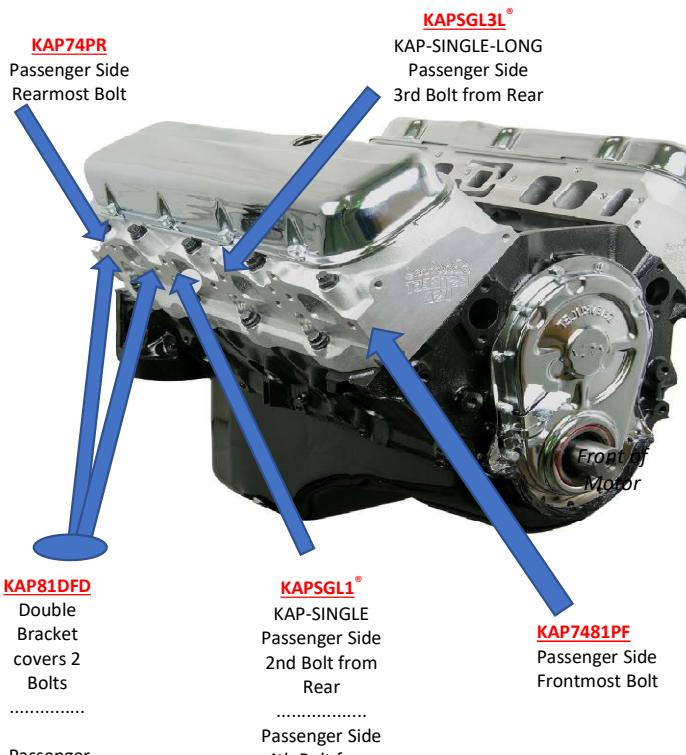
# GM Big Block V8 Engines

366 ci | 396 ci | 402 ci | 427 ci | 454 ci

7.4 Liter

Years 1966 - 2009

## Passenger Side



**KAP74PR**  
Passenger Side  
Rearmost Bolt

**KAP81DFD**  
Double  
Bracket  
covers 2  
Bolts

.....

Passenger  
Side TWO  
Rearmost  
Bolts

.....  
Workhorse  
and  
Motorhome  
Chassis Only

**KAP81DFD**  
Double  
Bracket  
covers 2  
Bolts

.....

**KAP81DFD**  
Passenger Side  
2nd Bolt from  
Rear

.....

Passenger Side  
4th Bolt from

**KAP81DFD**  
Passenger Side  
3rd Bolt from Rear

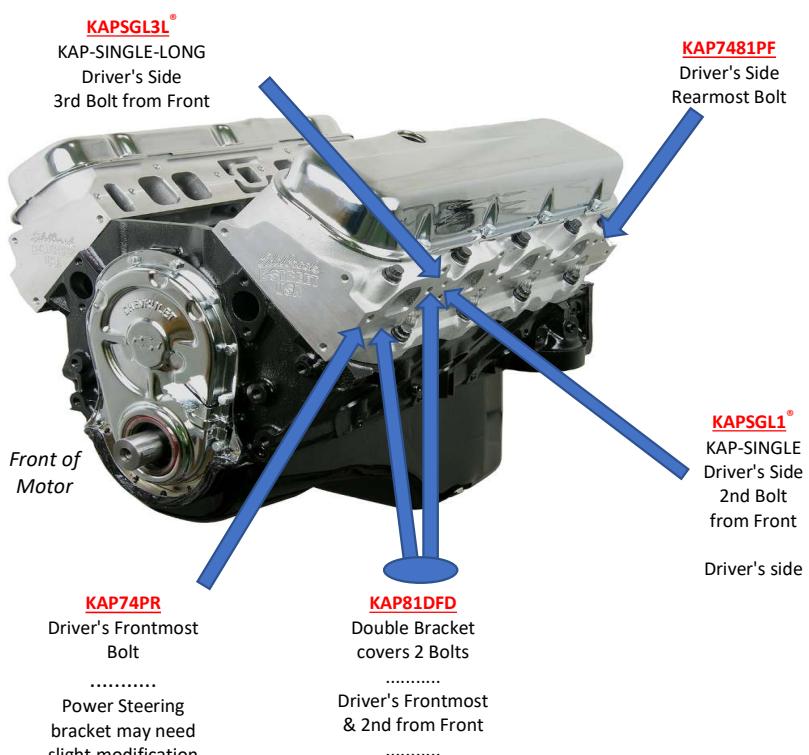
.....

Passenger Side  
Frontmost Bolt

.....

Passenger Side  
Rearmost Bolt

## Driver's Side



**KAP81DFD**  
Driver's Side  
3rd Bolt from Front

**KAP74PR**  
Driver's Frontmost  
Bolt

.....  
Power Steering  
bracket may need  
slight modification  
during installation  
of this bracket

**KAP81DFD**  
Driver's Side  
2nd Bolt  
from Front

.....  
Driver's Frontmost  
& 2nd from Front

.....  
Power Steering  
bracket may need  
slight modification  
during installation  
of this bracket.

**KAP7481PF**  
Driver's Side  
Rearmost Bolt

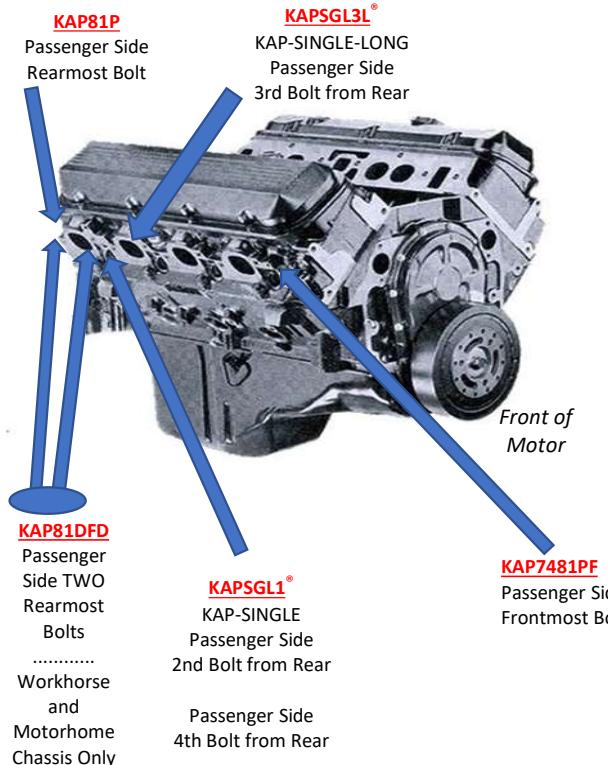
**KAP81DFD**  
Driver's Side  
2nd Bolt  
from Front

.....  
Driver's side

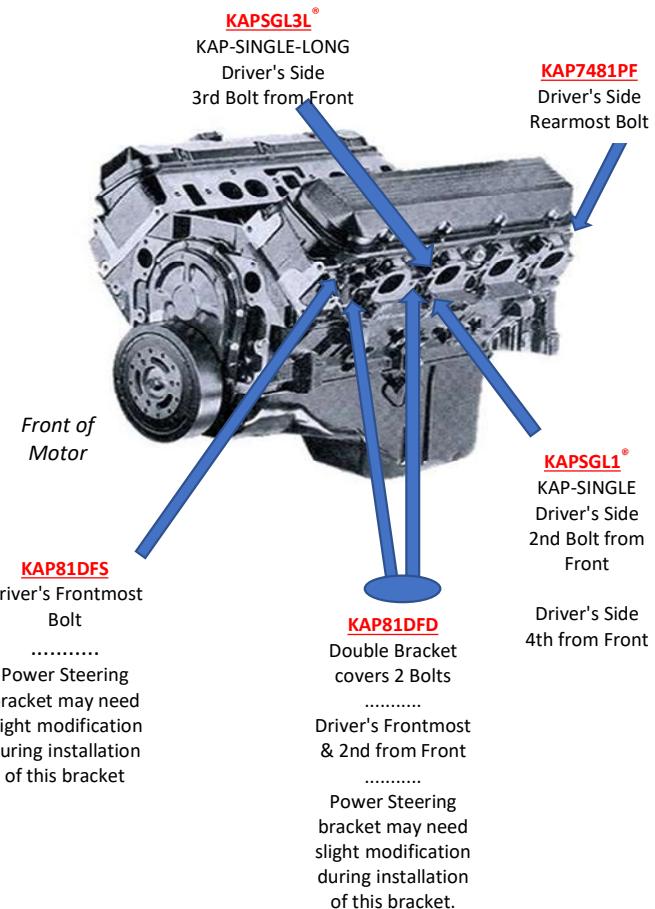
# GM Big Block V8 Engines

8.1 Liter - 8100 Vortec - All Years  
and  
8.8 Liter engines - All Years

## Passenger Side



## Driver's Side





**KRAL AUTO PARTS LLC**  
**Exhaust Manifold Bolt Repair Kits**

**FORD**  
**Engine Fitment Diagrams**

# Ford - Lincoln - Mercury

4.6 Liter | 5.4 Liter | 6.8L V10 Standard Engines

Years 1997 - Current

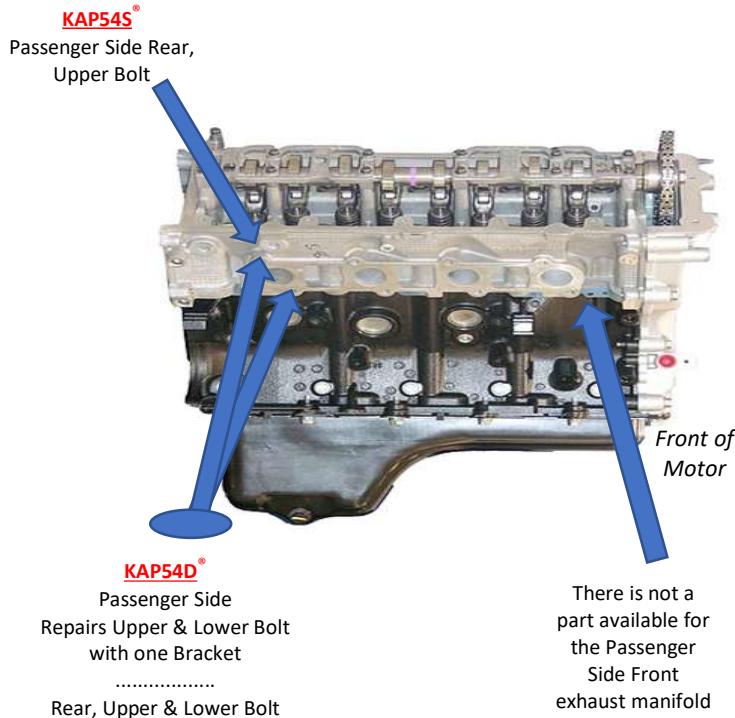
\*Please confirm that you have the necessary mounting bolt holes available on your motor.

\*There should be two pre-drilled and threaded bolt holes in the cylinder head just above the upper manifold bolt on the Passenger Rear or Driver Front bolt locations on your engine. They are approximately 1/2" in diameter and 3" apart.

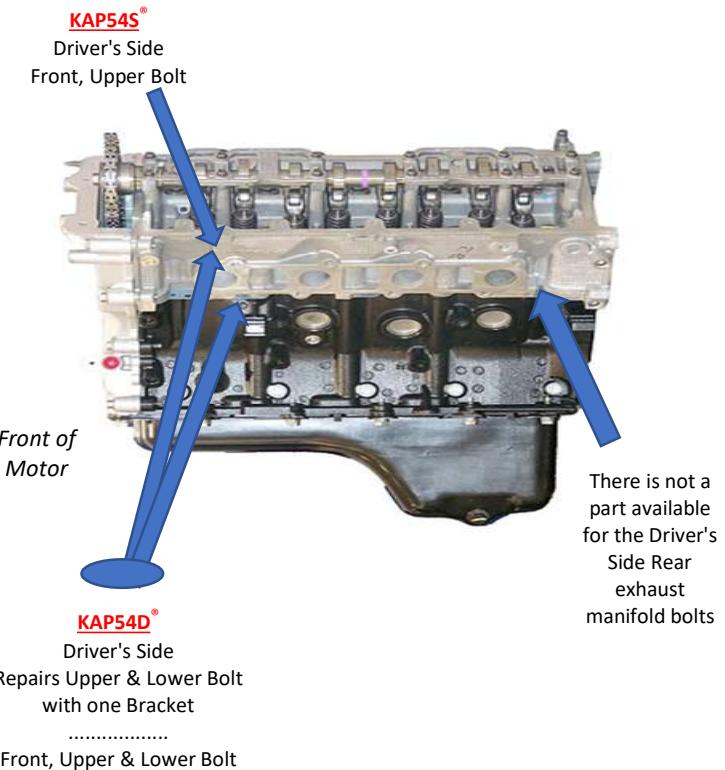
These parts will fit the STANDARD Ford 4.6L, 5.4L or the 6.8L V10 engines only.

\*These parts will not fit the Ford TRITON 3-Valve Engines.

## Passenger Side



## Driver's Side



# Ford - Lincoln - Mercury

4.6 Liter Triton 3-valve | 5.4 Liter Triton 3-valve | 6.8L V10 Triton 3-valve

Years 2003 - Current

\*Please confirm that you have the necessary mounting bolt holes available on your motor.

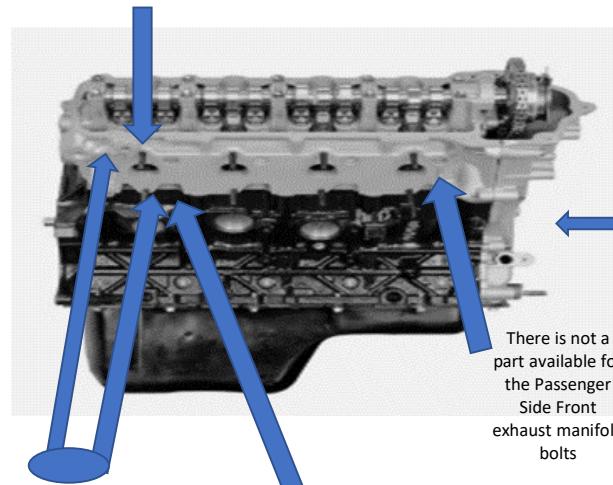
\*There should be two pre-drilled bolt holes in the cylinder head just above the upper manifold bolt on the Passenger Rear or Driver Front bolt locations on your engine. They are about 2 1/2 inches apart. The larger of the two bolt holes is threaded. The smaller of the two bolt holes is not threaded and the smaller hole is closer to your upper exhaust manifold bolt.

\*These parts will fit the Ford TRITON 3-Valve Engines only.

These parts will not fit the STANDARD Ford 4.6L, 5.4L or the 6.8L V10 engines.

## Passenger Side

**KAP54TRITONS**  
Passenger Side Rear,  
Upper Bolt



Front of  
Motor

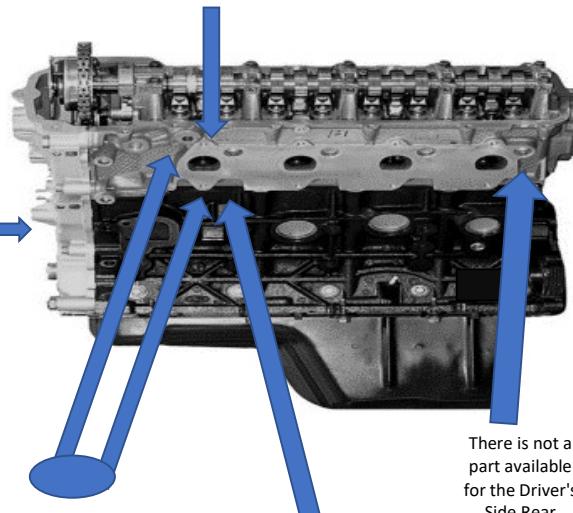
There is not a  
part available  
for the Passenger  
Side Front  
exhaust manifold  
bolts

**KAP54TRITOND**  
Passenger Side 2 Rearmost  
Repairs Upper & Lower Bolt  
with one Bracket  
.....  
Rear, Upper & Lower Bolt

**KAP54TRITONL**  
Passenger Side  
Repairs Rear Lower Bolt only  
.....  
Rear, Lower Bolt

## Driver's Side

**KAP54TRITONS**  
Driver's Side  
Front, Upper Bolt



Front of  
Motor

There is not a  
part available  
for the Driver's  
Side Rear  
exhaust  
manifold bolts

**KAP54TRITOND**  
Driver's Side  
Repairs Upper & Lower Bolt  
with one Bracket  
.....  
Front, Upper & Lower Bolt

**KAP54TRITONL**  
Driver's Side  
Repairs Front Lower Bolt only  
.....  
Front, Lower Bolt

# Ford 460 Engine

Ford - Lincoln - Mercury 373 ci | 429 ci | 460 ci Engines  
Fits All Years

## Passenger Side



**KAP460P**  
Passenger Side  
Rearmost Bolt

## Driver's Side



**KAP460P**  
Driver Side  
Frontmost Bolt

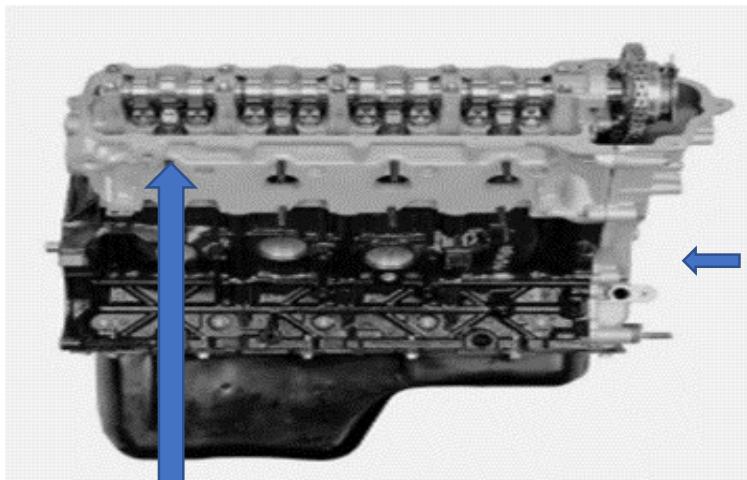
.....  
Modification to  
existing bracketing  
required

# Ford - Lincoln - Mercury

6.2 Liter GAS Engine

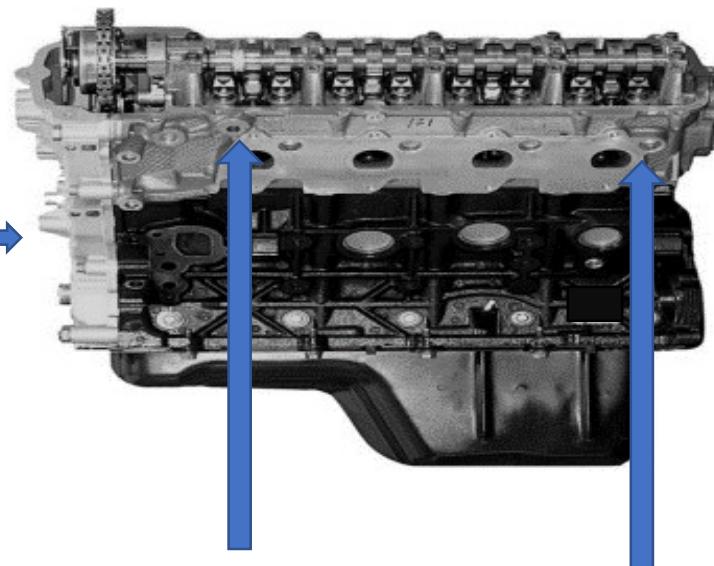
Years 2011 - 2019

## Passenger Side



**KAPFG62PR**  
Passenger Side  
Rear Upper Bolt

## Driver's Side



**KAPFG62PR**  
Driver Side  
Front Upper Bolt

**KAPFG62DR**  
Driver Side  
Rear Upper Bolt