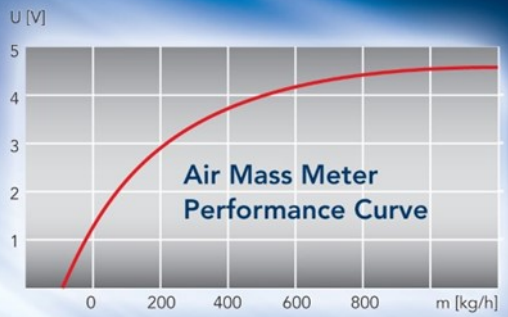
# The perfect ones!

- BREMI air mass meters: 100% tested and manufactured to ISO/TS16949 standard
- Maximum precision and fast response times support optimum and clean combustion



**OEM-Supplier for Generations!**

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ORIGINALTEILE BREMI ORIGINAL PARTS

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BREMI

PREMIUM CAR SYSTEMS

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# (MAF Sensor Essentials)

**Function:**
Air Mass Sensors (MAF) measure the volume of air drawn into the engine and then converts this data to signals, which are transmitted to the Engine Control Unit (ECU). This data is used to determine the amount of fuel required for optimum combustion. In addition to data based on the volume of air, exact values are also transmitted for the intake air temperature, humidity, air density, as well as the engine load. These are all essential for controlling a clean, environmentally friendly combustion process.

**Fault Codes & Diagnosis:**
In some cases, no adverse conditions may be noticed by the driver. In other cases, there may be performance problems, such as a lack of power on acceleration, misfiring, trouble idling and diminished fuel economy.

For the entire system to work properly, all of the air entering an engines combustion chambers must be seen by the MAF sensor. This means that any vacuum or air leak (i.e. torn PCV hose, faulty PCV valve, torn Intake Air Boot, etc.) may cause the engine to run rich or lean and cause the engine light to illuminate.

1) Find and eliminate all external air or vacuum leaks and verify that the PCV valve is correctly installed and functioning properly.
2) The connector and the wiring at the Air Mass Sensor need to be checked for loose terminals, corrosion or damage.

Only after these steps have been completed should you direct your attention to the Air Mass Sensor itself.

**After Replacing the MAF Sensor:** The ECU must be reset to clear the old parameters and force the motor controller to accept the characteristic value of the new MAF Sensor. The fault memory codes must be deleted before performing a test drive. It may happen that the error code is reset by the control unit before the test drive. If this happens, the error code must be deleted again after the test drive.

**Air Mass Sensors are Very Sensitive to Contamination:**
Fault codes are commonly the result of the Air Flow Sensor and the sensing wire getting covered with dirt, dust or oil residue. Always make sure the Air Filter and its enclosure are dirt, dust and oil-free. To prevent the air mass meter from failing prematurely, it is necessary for the filters to be replaced at manufacturers' specified intervals. Cleaning the sensor is definitely not recommended as this usually results in damage to, or destruction of, the sensor.

**BREMI Air Mass Sensors:**
BREMI has been an original equipment manufacturer and after-market supplier of Ignition products for Generations. Bremi's strength lies in their ability to consistently provide industry leadership with innovative technology. Their Air Mass Sensors are manufactured under the same standards (ISO/TS16949) & continually optimized for fast response times resulting in a durable, high performance product that you can rely on!

BREMI performs 100% testing of their MAF sensors in accordance with the same testing criteria utilized by O.E. A video of this can be seen on our web site (www.KarlynSTI.com) by clicking on the "BREMI VIDEO" link.

# KARLYN/STI

**NEW BREMI MAF LINE**

**www.KarlynSTI.com**

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **ACURA** | | | | |
| **ILX** | | | | |
| L4 | 1.5 LTR. | | 13-15 | **30240** |
| L4 | 2.0 LTR. | | 13-15 | **30240** |
| **MDX** | | | | |
| V6 | 3.7 LTR. | | 07-15 | **30240** |
| **RDX** | | | | |
| L4 | 2.3 LTR. | | 07-15 | **30240** |
| **RL** | | | | |
| V6 | 3.7 LTR. | | 09-12 | **30240** |
| **RLX** | | | | |
| V6 | 3.5 LTR. | | 14-15 | **30240** |
| **TL** | | | | |
| V6 | 3.5 LTR. | | 09-14 | **30240** |
| V6 | 3.7 LTR. | | 09-14 | **30240** |
| **TLX** | | | | |
| L4 | 2.4 LTR. | | 2015 | **30240** |
| **TSX** | | | | |
| V6 | 3.5 LTR. | | 10-14 | **30240** |
| **ZDX** | | | | |
| V6 | 3.7 LTR. | | 10-13 | **30240** |
| **AUDI** | | | | |
| **A3** | | | | |
| L4 | 2.0 LTR. | | 06-07 | **30359** |
| L4 | 2.0 LTR. | BPY Eng. | 2008 | **30359** |
| L4 | 2.0 LTR. | | 09-13 | **30345** |
| L4 | 2.0 LTR. (CBFA & CCTA) | | 2008 | **30345** |
| **A3 QUATTRO** | | | | |
| L4 | 2.0 LTR. | | 09-13 | **30345** |
| **A4** | | | | |
| L4 | 1.8 LTR. | | 01-06 | **30028** |
| L4 | 1.8 LTR. (ATW) | | 2000 | **30339** |
| L4 | 1.8 LTR. (AEB) | From Chassis #8D-W-040001 | 98-99 | **30027** |
| L4 | 2.0 LTR. TURBO | VIN: F | 05-06 | **30359** |
| L4 | 2.0 LTR. TURBO | | 06-08 | **30359** |
| L4 | 2.0 LTR. TURBO | Cabriolet | 2009 | **30359** |
| **A4 QUATTRO** | | | | |
| L4 | 1.8 LTR. | | 01-05 | **30028** |
| L4 | 1.8 LTR. (ATW) | | 2000 | **30339** |
| L4 | 1.8 LTR. (AEB) | From Chassis #8D-W-040001 | 98-00 | **30027** |
| L4 | 2.0 LTR. TURBO | VIN: F | 05-06 | **30359** |
| L4 | 2.0 LTR. TURBO | | 06-08 | **30359** |
| L4 | 2.0 LTR. TURBO | Cabriolet | 2009 | **30359** |

## AUDI - cont.

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **TT** | | | | |
| L4 | 1.8 LTR. | | 02-06 | **30028** |
| L4 | 1.8 LTR. (AWP) | | 2001 | **30028** |
| L4 | 1.8 LTR. (ATC) | | 00-01 | **30339** |
| L4 | 2.0 LTR. | BPY Eng. | 08-09 | **30359** |
| L4 | 2.0 LTR. | | 2009 | **30345** |
| **TT QUATTRO** | | | | |
| L4 | 1.8 LTR. (AWP) | | 01-02 | **30028** |
| L4 | 1.8 LTR. | | 2000 | **30339** |
| L4 | 2.0 LTR. | | 09-10 | **30345** |
| **Q7** | | | | |
| V8 | 4.2 LTR. | 2 Required | 07-10 | **30056** |

## BMW

| | | | | |
|---|---|---|---|---|
| **128i** | | | | |
| L6 | 3.0 LTR. | | 08-13 | **30246** |
| **135i** | | | | |
| L6 | 3.0 LTR. | | 11-13 | **30351** |
| **135is** | | | | |
| L6 | 3.0 LTR | | 2013 | **30351** |
| **320i E46** | | | | |
| L6 | 2.2 LTR. (M54) | | 01-03 | **30012** |
| **323Ci/i E46** | | | | |
| L6 | 2.5 LTR. (M52) | | 99-00 | **30012** |
| **323i E36** | | | | |
| L6 | 2.5 LTR. (M52) | | 98-99 | **30121** |
| **323iS E36** | | | | |
| L6 | 2.5 LTR. (M52) | | 98-99 | **30121** |
| **325Ci/i E46** | | | | |
| L6 | 2.5 LTR. (M54) **At Secondary Air Filter** | **From March 2003 on** | 03.03-06 | **30238** |
| L6 | 2.5 LTR. (M54) | **From March 2003 on** | 03.03-06 | **30235** |
| L6 | 2.5 LTR. (M56) **At Secondary Air Filte**r | | 03-06 | **30238** |
| L6 | 2.5 LTR. (M56) | | 03-06 | **30232** |
| L6 | 2.5 LTR. (M54) | **Up to February 2003** | 01-03.02 | **30012** |
| **325i** | | | | |
| L6 | 2.5 LTR. | **From September 1992 on** | 92-95 | **30173** |
| L6 | 3.0 LTR. (N52) | | 2006 | **30245** |

## BMW - cont.

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **325is** | | | | |
| L6 | 2.5 LTR. | **From September 1992 on** | 92-95 | **30173** |
| **325xi E46** | | | | |
| L6 | 2.5 LTR. (M54) **At Secondary Air Filter** | **From March 2003 on** | 03.03-05 | **30238** |
| L6 | 2.5 LTR. (M54) | | 01-05 | **30012** |
| **325xi E90** | | | | |
| L6 | 3.0 LTR. (N52) | | 2006 | **30245** |
| **328i E36** | | | | |
| L6 | 2.8 LTR. (M52) | | 96-99 | **30121** |
| **328i E90, E91, E92, E93** | | | | |
| L6 | 3.0 LTR. | | 07-13 | **30246** |
| **328i xDRIVE/xi E90, E91, E92** | | | | |
| L6 | 3.0 LTR. | | 07-13 | **30246** |
| **328iS E36** | | | | |
| L6 | 2.8 LTR. (M52) | | 96-99 | **30121** |
| **328Ci/i E46** | | | | |
| L6 | 2.8 LTR. (M52) | | 99-00 | **30012** |
| **330Ci** | | | | |
| L6 | 3.0 LTR. (M54) **At Secondary Air Filter** | **From March 2003 on** | 03.03-06 | **30238** |
| L6 | 3.0 LTR. (M54) | **From March 2003 on** | 03.03-06 | **30232** |
| L6 | 3.0 LTR. (M54) | **Up to February 2003** | 01-03.02 | **30098** |
| **330i** | | | | |
| L6 | 3.0 LTR. (N52) | | 2006 | **30245** |
| L6 | 3.0 LTR. (M54) **Throttle Housing** | **From September 2002 on** | 02.09-05 | **30232** |
| L6 | 3.0 LTR. (M54) **At Secondary Air Filter** | **From March 2003 on** | 03.03-05 | **30238** |
| L6 | 3.0 LTR. (M54) | **Up to August 2002** | 01-02.08 | **30098** |
| **330xi** | | | | |
| L6 | 3.0 LTR. (N52) | | 2006 | **30245** |
| L6 | 3.0 LTR. (M54) **At Secondary Air Filter** | **From March 2003 on** | 03.03-05 | **30238** |
| L6 | 3.0 LTR. (M54) | | 01-05 | **30098** |
| **335i** | | | | |
| L6 | 3.0 LTR. | | 11-13 | **30351** |
| **335i xDRIVE** | | | | |
| L6 | 3.0 LTR. | | 11-13 | **30351** |
| **525i** | | | | |
| L6 | 2.5 LTR. (M54) | | 04-05 | **30245** |
| L6 | 2.5 LTR. (M54) **At Secondary Air Filter** | E60 | 04-05 | **30238** |
| L6 | 2.5 LTR. (M54) | | 01-03 | **30012** |
| L6 | 2.5 LTR. | **From September 1992 on** | 92-95 | **30173** |
| L6 | 3.0 LTR. (N52) | | 06-07 | **30245** |

## BMW - cont.

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **525iT** | | | | |
| L6 | 2.5 LTR. | | 1993 | **30173** |
| **525xi** | | | | |
| L6 | 3.0 LTR. (N52) | | 06-07 | **30245** |
| **528i E39** | | | | |
| L6 | 2.8 LTR. (M52) | | 99-00 | **30012** |
| L6 | 2.8 LTR. (M52) | | 97-98 | **30121** |
| **528i/xDRIVE E60** | | | | |
| L6 | 3.0 LTR. | | 08-10 | **30246** |
| **528i** | | | | |
| L6 | 3.0 LTR. | | 2011 | **30351** |
| **530i** | | | | |
| L6 | 3.0 LTR. (N52) | | 06-07 | **30245** |
| L6 | 3.0 LTR. (M54) | | 04-05 | **30245** |
| L6 | 3.0 LTR. (M54) **At Secondary Air Filter** | E60 | 04-05 | **30238** |
| L6 | 3.0 LTR. (M54) | | 01-03 | **30098** |
| V8 | 3.0 LTR. | | 94-95 | **30173** |
| **530xi** | | | | |
| L6 | 3.0 LTR. (N52) | | 06-07 | **30245** |
| **535i** | | | | |
| L6 | 3.0 LTR. | | 11-16 | **30351** |
| **535i GT** | | | | |
| L6 | 3.0 LTR. | | 10-17 | **30351** |
| **535i GT xDRIVE** | | | | |
| L6 | 3.0 LTR. | | 11-17 | **30351** |
| **535i xDRIVE** | | | | |
| L6 | 3.0 LTR. | | 11-16 | **30351** |
| **540i E39** | | | | |
| V8 | 4.4 LTR. (M62) | | 99-03 | **30079** |
| **540i** | | | | |
| V8 | 4.0 LTR. | | 94-95 | **30190** |
| V8 | 4.4 LTR. | | 97-98 | **30190** |
| **550i** | | | | |
| V8 | 4.8 LTR. | | 06-13 | **30373** |
| **550i GT** | | | | |
| V8 | 4.4 LTR. | | 10-13 | **30373** |
| **550i GT xDRIVE** | | | | |
| V8 | 4.4 LTR. | | 10-13 | **30373** |
| **550i xDRIVE** | | | | |
| V8 | 4.4 LTR. | | 11-13 | **30373** |
| **640i** | | | | |
| L6 | 3.0 LTR. | | 12-18 | **30351** |
| **640i GRAN COUPE** | | | | |
| L6 | 3.0 LTR. | | 13-18 | **30351** |
| **640i xDRIVE** | | | | |
| L6 | 3.0 LTR. | | 14-18 | **30351** |

## BMW - cont.

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **640i xDRIVE GRAN COUPE** | | | | |
| L6 | 3.0 LTR. | | 14-18 | **30351** |
| **650i** | | | | |
| V8 | 4.8 LTR. | | 06-13 | **30373** |
| **650i GRAN COUPE** | | | | |
| V8 | 4.4 LTR. | | 2013 | **30373** |
| **650i xDRIVE** | | | | |
| V8 | 4.4 LTR. | | 12-13 | **30373** |
| **650i xDRIVE GRAN COUPE** | | | | |
| V8 | 4.4 LTR. | | 2013 | **30373** |
| **740i** | | | | |
| L6 | 3.0 LTR. | | 13-15 | **30351** |
| V8 | 4.0 LTR. | | 93-95 | **30190** |
| V8 | 4.4 LTR. | | 97-98 | **30190** |
| V8 | 4.4 LTR. (M62) | | 99-01 | **30079** |
| **740iL** | | | | |
| V8 | 4.0 LTR. | | 93-95 | **30190** |
| V8 | 4.4 LTR. | | 96-98 | **30190** |
| V8 | 4.4 LTR. (M62) | | 99-01 | **30079** |
| **740Li** | | | | |
| L6 | 3.0 LTR. | | 13-15 | **30351** |
| **740Li xDRIVE** | | | | |
| L6 | 3.0 LTR. | | 13-15 | **30351** |
| **750i** | | | | |
| V8 | 4.4 LTR. | | 09-12 | **30373** |
| V8 | 4.4 LTR. | Electric/Gas | 11-12 | **30373** |
| V8 | 4.8 LTR. | | 06-08 | **30373** |
| **750i xDRIVE** | | | | |
| V8 | 4.4 LTR. | | 10-12 | **30373** |
| **750Li** | | | | |
| V8 | 4.4 LTR. | | 09-12 | **30373** |
| V8 | 4.4 LTR. | Electric/Gas | 11-12 | **30373** |
| V8 | 4.8 LTR. | | 06-08 | **30373** |
| **750Li xDRIVE** | | | | |
| V8 | 4.4 LTR. | | 10-12 | **30373** |
| **840Ci** | | | | |
| V8 | 4.0LTR. | | 94-95 | **30190** |
| V8 | 4.4 LTR. | | 96-97 | **30190** |
| **ACTIVEHYBRID 5** | | | | |
| L6 | 3.0 LTR. | | 12-16 | **30351** |
| **ACTIVEHYBRID 7** | | | | |
| L6 | 3.0 LTR. | | 13-15 | **30351** |

## BMW - cont.

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **ALPINA B7** | | | | |
| V8 | 4.4 LTR. | | 11-15 | **30373** |
| **ALPINA B7 xDRIVE** | | | | |
| V8 | 4.4 LTR. | | 11-15 | **30373** |
| **ALPINA B7L** | | | | |
| V8 | 4.4 LTR. | | 11-15 | **30373** |
| **ALPINA B7L xDRIVE** | | | | |
| V8 | 4.4 LTR. | | 11-15 | **30373** |
| **M3** | | | | |
| L6 | 3.0 LTR. | | 1995 | **30173** |
| **M3 E36** | | | | |
| L6 | 3.2 LTR. (S52) | | 96-99 | **30121** |
| **M3 E46** | | | | |
| L6 | 3.2 LTR. | | 01-06 | **30234** |
| **M5 E39** | | | | |
| V8 | 5.0 LTR. (S62) | | 00-03 | **30189** |
| **M5 E60** | | | | |
| V10 | 5.0 LTR. **At Secondary Air Filter** | | 06-10 | **30238** |
| V10 | 5.0 LTR. | 2 Required | 06-10 | **30234** |
| **M6 E63, E64** | | | | |
| V10 | 5.0 LTR. **At Secondary Air Filter** | | 06-10 | **30238** |
| V10 | 5.0 LTR. | 2 Required | 06-10 | **30234** |
| **X1** | | | | |
| L6 | 3.0 LTR. | | 13-15 | **30351** |
| **X3** | | | | |
| L6 | 2.5 LTR. (M54) | | 04-05 | **30235** |
| L6 | 3.0 LTR. | | 11-17 | **30351** |
| L6 | 3.0 LTR. (N52) | | 07-10 | **30246** |
| L6 | 3.0 LTR. (M54) **At Secondary Air Filter** | | 04-06 | **30238** |
| L6 | 3.0 LTR. (M54) | | 04-06 | **30232** |
| **X5** | | | | |
| L6 | 3.0 LTR. | | 11-18 | **30351** |
| L6 | 3.0 LTR. | | 07-10 | **30246** |
| L6 | 3.0 LTR. (M54) **At Secondary Air Filter** | | 01-06 | **30238** |
| L6 | 3.0 LTR. (M54) | | 01-06 | **30098** |
| V8 | 4.4 LTR. (M62) | | 00-03 | **30079** |
| V8 | 4.6 LTR. (M62) | | 02-03 | **30079** |
| V8 | 4.4 LTR. TURBO | | 11-13 | **30373** |

## BMW - cont.

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **X6** | | | | |
| L6 | 3.0 LTR. | | 11-18 | **30351** |
| V8 | 4.4 LTR. | | 08-09 | **30373** |
| V8 | 4.4 LTR. | | 13-14 | **30373** |
| V8 | 4.4 LTR. TURBO | | 10-12 | **30373** |
| V8 | 4.4 LTR. | Electric/Gas | 10-11 | **30373** |
| **Z3 ROADSTER** | | | | |
| L6 | 2.5 LTR. (M52, M54) | | 99-02 | **30012** |
| L6 | 2.8 LTR. (M52) | | 99-00 | **30012** |
| L6 | 3.0 LTR. (M54) | | 01-02 | **30098** |
| L6 | 3.2 LTR. | | 01-02 | **30234** |
| **Z4** | | | | |
| L6 | 2.5 LTR. (M54) | | 03-05 | **30235** |
| L6 | 3.0 LTR. | E89 | 09-11 | **30246** |
| L6 | 3.0 LTR. (M54) | | 03-05 | **30232** |
| **Z4 ROADSTER E85, E86** | | | | |
| L6 | 3.0 LTR. (N52, N54) | | 2009 | **30245** |
| L6 | 3.0 LTR. (N52) | | 06-08 | **30245** |
| L6 | 3.2 LTR. | | 06-08 | **30234** |
| **Z8 ROADSTER E52** | | | | |
| V8 | 4.8 LTR. (M62) | | 2003 | **30079** |
| V8 | 5.0 LTR. (S62) | | 00-02 | **30189** |

## CHRYSLER

| | | | | |
|---|---|---|---|---|
| **SEBRING** | | | | |
| L4 | 2.4 LTR. | | 01-05 | **30242** |
| V6 | 3.0 LTR. | | 01-05 | **30242** |

## DODGE

| | | | | |
|---|---|---|---|---|
| **STRATUS** | | | | |
| L4 | 2.4 LTR. | | 01-05 | **30242** |
| V6 | 3.0 LTR. | | 01-05 | **30242** |

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|

## HONDA

| | | | | |
|---|---|---|---|---|
| **ACCORD** | | | | |
| L4 | 2.4 LTR. | | 13-15 | **30240** |
| L4 | 2.4 LTR. | | 03-07 | **30240** |
| V6 | 3.0 LTR. | | 05-07 | **30240** |
| V6 | 3.5 LTR. | | 08-15 | **30240** |
| **ACCORD CROSSTOUR** | | | | |
| V6 | 3.5 LTR. | | 10-11 | **30240** |
| **CIVIC** | | | | |
| L4 | 1.3 LTR. | | 06-11 | **30240** |
| L4 | 1.5 LTR. | | 12-15 | **30240** |
| L4 | 1.8 LTR. | | 06-15 | **30240** |
| **CR-Z** | | | | |
| L4 | 1.5 LTR. | | 11-15 | **30240** |
| **CROSSTOUR** | | | | |
| V6 | 3.5 LTR. | | 12-15 | **30240** |
| **FIT** | | | | |
| L4 | 1.5 LTR. | | 2015 | **30240** |
| L4 | 1.5 LTR. | | 09-13 | **30240** |
| **ODYSSEY** | | | | |
| V6 | 3.5 LTR. | | 07-15 | **30240** |
| **PILOT** | | | | |
| V6 | 3.5 LTR. | | 09-15 | **30240** |
| **RIDGELINE** | | | | |
| V6 | 3.5 LTR. | | 09-14 | **30240** |
| **INSIGHT** | | | | |
| L4 | 1.3 LTR. | | 10-14 | **30240** |

## HYUNDAI

| | | | | |
|---|---|---|---|---|
| **ELANTRA** | | | | |
| L4 | 2.0 LTR. | | 03-05 | **30361** |
| L4 | 2.0 LTR. | VIN: D, E | 06-10 | **30361** |
| **SPECTRA** | | | | |
| L4 | 1.8 LTR. | | 02-04 | **30244** |
| **SONATA** | | | | |
| L4 | 2.4 LTR. | VIN: C | 06-08 | **30361** |
| V6 | 2.5 LTR. | | 99-00 | **30012** |
| **TIBURON** | | | | |
| L4 | 2.0 LTR. | | 03-05 | **30361** |
| L4 | 2.0 LTR. | VIN: D, E | 06-08 | **30361** |
| **TUCSON** | | | | |
| L4 | 2.0 LTR. | | 2005 | **30361** |
| L4 | 2.0 LTR. | VIN: B | 06-09 | **30361** |
| | | Electric/Hydrogen | 15-17 | **30361** |

# INFINITI

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **EX35** | | | | |
| V6 | 3.5 LTR. | | 08-12 | **30230** |
| **EX37** | | | | |
| V6 | 3.7 LTR. | | 2013 | **30230** |
| **FX35** | | | | |
| V6 | 3.5 LTR. | | 09-12 | **30230** |
| **FX37** | | | | |
| V6 | 3.7 LTR. | | 2013 | **30230** |
| **FX50** | | | | |
| V8 | 5.0 LTR. | | 09-13 | **30230** |
| **G20** | | | | |
| L4 | 2.0 LTR. | | 00-02 | **30214** |
| **G25** | | | | |
| V6 | 2.5 LTR. | | 11-12 | **30230** |
| **G35** | | | | |
| V6 | 3.5 LTR. | | 03-08 | **30230** |
| **G37** | | | | |
| V6 | 3.7 LTR. | | 08-11 | **30230** |
| **I30** | | | | |
| V6 | 3.0 LTR. | | 00-01 | **30214** |
| V6 | 3.0 LTR. | | 96-99 | **30135** |
| **J30** | | | | |
| V6 | 3.0 LTR. | | 96-97 | **30135** |
| **M37** | | | | |
| V6 | 3.7 LTR. | | 11-12 | **30230** |
| **M45** | | | | |
| V8 | 4.5 LTR. | | 06-10 | **30230** |
| **M56** | | | | |
| V8 | 5.6 LTR. | | 11-13 | **30365** |
| **Q45** | | | | |
| V8 | 4.1 LTR. | | 97-01 | **30135** |
| **Q70** | | | | |
| V8 | 5.6 LTR. | | 14-18 | **30365** |
| **Q70L** | | | | |
| V8 | 5.6 LTR. | | 15-18 | **30365** |
| **QX56** | | | | |
| V8 | 5.6 LTR. | | 04-11 | **30230** |

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **JAGUAR** | | | | |
| **S-TYPE** | | | | |
| V6 | 3.0 LTR. | | 03-08 | **30252** |
| V8 | 4.2 LTR. | | 03-08 | **30252** |
| **VANDEN PLAS** | | | | |
| V8 | 4.0 LTR. | | 99-03 | **30119** |
| V8 | 4.2 LTR. | | 04-09 | **30252** |
| **XF** | | | | |
| V8 | 4.2 LTR. | | 09-10 | **30252** |
| **XJ8** | | | | |
| V8 | 4.0 LTR. | | 99-03 | **30119** |
| V8 | 4.2 LTR. | | 04-09 | **30252** |
| **XK8** | | | | |
| V8 | 4.0 LTR. | | 99-02 | **30119** |
| V8 | 4.2 LTR. | | 03-06 | **30252** |
| **X-TYPE** | | | | |
| V6 | 2.5 LTR. | | 02-05 | **30252** |
| V6 | 3.0 LTR. | | 02-08 | **30252** |
| **KIA** | | | | |
| **OPTIMA** | | | | |
| L4 | 2.4 LTR. | VIN: 3 | 06-08 | **30361** |
| **RIO** | | | | |
| L4 | 1.6 LTR. | | 2006 | **30361** |
| **RIO5** | | | | |
| L4 | 1.6 LTR. | | 2006 | **30361** |
| **RONDO** | | | | |
| L4 | 2.4 LTR. | VIN: 5 | 07-08 | **30361** |
| **SPECTRA** | | | | |
| L4 | 2.0 LTR. | | 04-07 | **30361** |
| L4 | 2.0 LTR. | VIN: 1, 2 | 08-09 | **30361** |
| **SPECTRA5** | | | | |
| L4 | 2.0 LTR. | | 05-07 | **30361** |
| L4 | 2.0 LTR. | VIN: 1, 2 | 08-09 | **30361** |
| **SPORTAGE** | | | | |
| L4 | 2.0 LTR. | | 05-08 | **30361** |
| L4 | 2.0 LTR. | VIN: 4 | 2009 | **30361** |
| L4 | 2.0 LTR. | VIN: 2, 4 | 2010 | **30361** |
| **LAND ROVER** | | | | |
| **LR2** | | | | |
| L6 | 3.2 LTR. | | 08-13 | **30252** |
| **LR3** | | | | |
| V8 | 4.4 LTR. | | 05-09 | **30252** |
| **RANGE ROVER** | | | | |
| V8 | 4.2 LTR. | | 06-09 | **30252** |
| V8 | 4.4 LTR. | | 06-09 | **30252** |
| V8 | 4.4 LTR. | | 03-04 | **30079** |

# LEXUS

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **ES300** | | | | |
| V6 | 3.0 LTR. | | 02-03 | **30093** |
| V6 | 3.0 LTR. | | 99-01 | **30252** |
| **ES330** | | | | |
| V6 | 3.3 LTR. | | 04-06 | **30093** |
| **GS300** | | | | |
| L6 | 3.0 LTR. | | 00-06 | **30093** |
| **GS430** | | | | |
| V8 | 4.3 LTR. | | 05-07 | **30093** |
| **GS450H** | | | | |
| V6 | 3.5 LTR. | | 07-11 | **30093** |
| **GX460** | | | | |
| V8 | 4.6 LTR. | | 10-12 | **30239** |
| **GX470** | | | | |
| V8 | 4.7 LTR. | **From November 2004 on** | 04.11-09 | **30239** |
| **IS300** | | | | |
| L6 | 3.0 LTR. | | 01-05 | **30093** |
| **LS430** | | | | |
| V8 | 4.3 LTR. | | 01-06 | **30093** |
| **LX470** | | | | |
| V8 | 4.7 LTR. | **From May 2005 on** | 05.05-07 | **30239** |
| **LX570** | | | | |
| V8 | 5.7 LTR. | | 08-11 | **30239** |
| **RX300** | | | | |
| V6 | 3.0 LTR. | | 99-03 | **30252** |
| **RX330** | | | | |
| V6 | 3.3 LTR. | | 04-06 | **30093** |
| **RX400H** | | | | |
| V6 | 3.3 LTR. | | 06-08 | **30093** |

# MAZDA

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **2** | | | | |
| L4 | 1.5 LTR. | | 11-14 | **30252** |
| **3** | | | | |
| L4 | 2.0 LTR. | | 04-13 | **30252** |
| L4 | 2.3 LTR. TURBO | | 10-13 | **30119** |
| L4 | 2.3 LTR. TURBO | **Mazda Speed 3 Model only** | 07-09 | **30119** |
| L4 | 2.3 LTR. without Turbo | | 04-09 | **30252** |
| L4 | 2.5 LTR. | | 10-13 | **30252** |
| **5** | | | | |
| L4 | 2.3 LTR. | | 06-10 | **30252** |
| L4 | 2.5 LTR. | | 12-14 | **30252** |
| **6** | | | | |
| L4 | 2.3 LTR. without Turbo | | 03-08 | **30252** |
| L4 | 2.3 LTR. TURBO | **Mazda Speed 6 Model only** | 06-07 | **30119** |
| L4 | 2.5 LTR. | | 09-13 | **30252** |
| L4 | 3.0 LTR. | | 03-08 | **30252** |
| **CX-7** | | | | |
| L4 | 2.3 LTR. | | 07-12 | **30119** |
| L4 | 2.5 LTR. | | 10-12 | **30252** |
| **CX-9** | | | | |
| V6 | 3.5 LTR. | | 2007 | **30119** |
| **MX-5 MIATA** | | | | |
| L4 | 2.0 LTR. | | 06-14 | **30252** |
| **RX-8** | | | | |
| R2 | 1.3 LTR. | | 04-11 | **30252** |
| **PROTÉGÉ** | | | | |
| L4 | 1.6 LTR. | | 99-01 | **30252** |

# MERCEDES-BENZ

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **C230** | | | | |
| L4 | 1.8 LTR. | | 03-05 | **30045** |
| L4 | 2.3 LTR. | | 2002 | **30017** |
| L4 | 2.3 LTR. | | 97-00 | **30013** |
| V6 | 2.5 LTR. | | 06-07 | **30114** |
| **C240** | | | | |
| V6 | 2.6 LTR. | | 01-05 | **30025** |
| **C280** | | | | |
| V6 | 2.8 LTR. | | 98-00 | **30025** |
| L6 | 2.8 LTR. | | 94-96 | **30078** |
| V6 | 3.0 LTR. | | 06-07 | **30114** |
| **C300** | | | | |
| V6 | 3.0 LTR. | | 08-12 | **30114** |
| **C32 AMG** | | | | |
| V6 | 3.2 LTR. | | 02-04 | **30025** |
| **C320** | | | | |
| V6 | 3.2 LTR. | | 01-05 | **30025** |
| **C350** | | | | |
| V6 | 3.5 LTR. | | 06-11 | **30114** |
| **C43 AMG** | | | | |
| V8 | 4.3 LTR. | | 98-00 | **30080** |
| **C55 AMG** | | | | |
| V8 | 5.5 LTR. | | 05-06 | **30080** |
| **CL55 AMG** | | | | |
| V8 | 5.5 LTR. | | 01-02 | **30080** |
| **CL500** | | | | |
| V8 | 5.0 LTR. | | 00-06 | **30080** |
| **CL550** | | | | |
| V8 | 5.5 LTR. | | 07-10 | **30114** |
| **CL600** | | | | |
| V12 | 5.8 LTR. | | 01-02 | **30080** |
| **CLK320** | | | | |
| V6 | 3.2 LTR. | | 98-05 | **30025** |
| **CLK350** | | | | |
| V6 | 3.5 LTR. | | 06-09 | **30114** |
| **CLK430** | | | | |
| V8 | 4.3 LTR. | | 99-03 | **30080** |

## MERCEDES-BENZ - cont.

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **CLK55 AMG** | | | | |
| V8 | 5.5 LTR. | | 01-06 | **30080** |
| **CLK500** | | | | |
| V8 | 5.0 LTR. | | 03-06 | **30080** |
| **CLK550** | | | | |
| V8 | 5.5 LTR. | | 07-09 | **30114** |
| **CLS500** | | | | |
| V8 | 5.0 LTR. | | 2006 | **30080** |
| **CLS550** | | | | |
| V8 | 5.5 LTR. | | 07-11 | **30114** |
| **E320** | | | | |
| V6 | 3.2 LTR. | | 98-05 | **30025** |
| L6 | 3.2 LTR. | Up to Eng. #050146 | 94-96 | **30078** |
| **E350** | | | | |
| V6 | 3.5 LTR. | | 06-11 | **30114** |
| **E430** | | | | |
| V8 | 4.3 LTR. | | 98-02 | **30080** |
| **E55 AMG** | | | | |
| V8 | 5.5 LTR. | | 99-06 | **30080** |
| **E500** | | | | |
| V8 | 5.0 LTR. | | 03-06 | **30080** |
| **E550** | | | | |
| V8 | 5.5 LTR. | | 07-11 | **30114** |
| **G500** | | | | |
| V8 | 5.0 LTR. | | 02-08 | **30080** |
| **G550** | | | | |
| V8 | 5.5 LTR. | | 09-14 | **30114** |
| **GL450** | | | | |
| V8 | 4.6 LTR. | | 07-12 | **30114** |
| **GL550** | | | | |
| V8 | 5.5 LTR. | | 08-12 | **30114** |
| **GLK350** | | | | |
| V6 | 3.5 LTR. | | 10-12 | **30114** |
| **ML320** | | | | |
| V6 | 3.2 LTR. | | 98-03 | **30025** |
| **ML350** | | | | |
| V6 | 3.5 LTR. | | 06-11 | **30114** |
| V6 | 3.7 LTR. | | 03-05 | **30025** |

## MERCEDES-BENZ - cont.

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **ML430** | | | | |
| V8 | 4.3 LTR. | | 99-01 | **30080** |
| **ML450** | | | | |
| V6 | 3.5 LTR. | | 10-11 | **30114** |
| **ML55 AMG** | | | | |
| V8 | 5.5 LTR. | | 00-03 | **30080** |
| **ML500** | | | | |
| V8 | 5.0 LTR. | | 02-07 | **30080** |
| **ML550** | | | | |
| V8 | 5.5 LTR. | | 08-11 | **30114** |
| **R350** | | | | |
| V6 | 3.5 LTR. | | 06-11 | **30114** |
| **R500** | | | | |
| V8 | 5.0 LTR. | | 06-07 | **30080** |
| **S320** | | | | |
| L6 | 3.2 LTR. | Up to Eng. #073222 | 94-96 | **30078** |
| **S350** | | | | |
| V6 | 3.7 LTR. | | 2006 | **30025** |
| **S400** | | | | |
| V6 | 3.5 LTR. | | 10-13 | **30114** |
| **S430** | | | | |
| V8 | 4.3 LTR. | | 00-06 | **30080** |
| **S55 AMG** | | | | |
| V8 | 5.5 LTR. | | 01-02 | **30080** |
| **S500** | | | | |
| V8 | 5.0 LTR. | | 00-06 | **30080** |
| **S550** | | | | |
| V8 | 5.5 LTR. | | 07-11 | **30114** |
| **S600** | | | | |
| V12 | 5.8 LTR. | | 01-02 | **30080** |
| **SL320** | | | | |
| L6 | 3.2 LTR. | Up to Eng. #022857 | 94-96 | **30078** |
| **SL500** | | | | |
| V8 | 5.0 LTR. | | 99-06 | **30080** |
| **SL550** | | | | |
| V8 | 5.5 LTR. | | 11-12 | **30114** |
| V8 | 5.5 LTR. | | 07-09 | **30114** |
| **SLK230** | | | | |
| L4 | 2.3 LTR. | | 01-04 | **30017** |
| L4 | 2.3 LTR. | | 98-02 | **30013** |

## MERCEDES-BENZ - cont.

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **SLK280** | | | | |
| V6 | 3.0 LTR. | | 06-08 | **30114** |
| **SLK300** | | | | |
| V6 | 3.0 LTR. | | 09-11 | **30114** |
| **SLK320** | | | | |
| V6 | 3.2 LTR. | | 01-04 | **30025** |
| **SLK350** | | | | |
| V6 | 3.5 LTR. | | 05-11 | **30114** |
| **SLK55 AMG** | | | | |
| V8 | 5.5 LTR. | | 05-10 | **30080** |

# MITSUBISHI

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **ECLIPSE** | | | | |
| L4 | 2.4 LTR. | | 06-12 | **30249** |
| L4 | 2.4 LTR. | | 00-05 | **30242** |
| V6 | 3.0 LTR. | | 00-05 | **30242** |
| V6 | 3.8 LTR. | | 06-12 | **30249** |
| **ENDEAVOR** | | | | |
| V6 | 3.8 LTR. | | 10-11 | **30249** |
| V6 | 3.8 LTR. | | 04-08 | **30249** |
| **GALANT** | | | | |
| L4 | 2.4 LTR. | | 04-11 | **30249** |
| L4 | 2.4 LTR. | | 99-03 | **30242** |
| V6 | 3.0 LTR. | | 99-03 | **30242** |
| V6 | 3.8 LTR. | | 04-09 | **30249** |
| **LANCER** | | | | |
| L4 | 2.0 LTR. | | 08-11 | **30249** |
| L4 | 2.4 LTR. | | 09-11 | **30249** |
| L4 | 2.4 LTR. | | 04-06 | **30249** |
| **MONTERO SPORT** | | | | |
| L4 | 2.4 LTR. | | 1999 | **30242** |
| V6 | 3.0 LTR. | | 99-03 | **30242** |
| **OUTLANDER** | | | | |
| L4 | 2.4 LTR. | | 08-11 | **30249** |
| L4 | 2.4 LTR. | | 04-06 | **30249** |
| L4 | 2.4 LTR. | | 2003 | **30242** |
| V6 | 3.0 LTR. | | 07-11 | **30249** |
| **OUTLANDER SPORT** | | | | |
| L4 | 2.0 LTR. | | 2011 | **30249** |

# NISSAN

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **350Z** | | | | |
| V6 | 3.5 LTR. | | 03-09 | **30230** |
| **370Z** | | | | |
| V6 | 3.7 LTR. | | 09-13 | **30230** |
| **ALTIMA** | | | | |
| L4 | 2.5 LTR. | | 07-12 | **30230** |
| V6 | 3.5 LTR. | | 07-13 | **30230** |
| **ARMADA** | | | | |
| V8 | 5.6 LTR. | | 05-13 | **30230** |
| **CUBE** | | | | |
| L4 | 1.8 LTR. | | 09-13 | **30230** |
| **FRONTIER** | | | | |
| L4 | 2.5 LTR. | | 05-12 | **30230** |
| V6 | 4.0 LTR. | | 05-12 | **30230** |
| **GT-R** | | | | |
| V6 | 3.8 LTR. | | 09-12 | **30230** |
| **JUKE** | | | | |
| L4 | 1.6 LTR. TURBO | | 11-17 | **30365** |
| **MAXIMA** | | | | |
| V6 | 3.0 LTR. | | 00-01 | **30214** |
| V6 | 3.0 LTR. | | 95-99 | **30135** |
| V6 | 3.5 LTR. | | 04-13 | **30230** |
| **MURANO** | | | | |
| V6 | 3.5 LTR. | | 09-13 | **30230** |
| V6 | 3.5 LTR. | | 06-07 | **30230** |
| **NV1500** | | | | |
| V6 | 4.0 LTR. | | 12-13 | **30230** |
| **NV2500** | | | | |
| V6 | 4.0 LTR. | | 12-13 | **30230** |
| V8 | 5.6 LTR. | | 12-13 | **30230** |
| **NV3500** | | | | |
| V6 | 4.0 LTR. | | 12-13 | **30230** |
| V8 | 5.6 LTR. | | 2013 | **30230** |

## NISSAN - cont.

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **PATHFINDER** | | | | |
| V6 | 3.5 LTR. | | 2013 | **30230** |
| V6 | 3.5 LTR. | | 2004 | **30230** |
| V6 | 4.0 LTR. | | 05-12 | **30230** |
| V8 | 5.6 LTR. | | 08-12 | **30230** |
| V8 | 5.6 LTR. | | 2004 | **30230** |
| **QUEST** | | | | |
| V6 | 3.5 LTR. | | 11-13 | **30230** |
| V6 | 3.5 LTR. | | 07-09 | **30230** |
| **ROGUE** | | | | |
| L4 | 2.5 LTR. | | 08-13 | **30230** |
| **SENTRA** | | | | |
| L4 | 2.0 LTR. | | 07-12 | **30230** |
| L4 | 2.0 LTR. | **Up to August 2001** | 00-01 | **30214** |
| L4 | 2.5 LTR. | | 07-12 | **30230** |
| **TITAN** | | | | |
| V8 | 5.6 LTR. | | 04-13 | **30230** |
| **VERSA** | | | | |
| L4 | 1.6 LTR. | | 10-13 | **30230** |
| L4 | 1.8 LTR. | | 07-12 | **30230** |
| **XTERRA** | | | | |
| V6 | 4.0 LTR. | | 05-12 | **30230** |

## PONTIAC

| | | | | |
|---|---|---|---|---|
| **VIBE** | | | | |
| L4 | 1.8 LTR. | | 03-08 | **30252** |

# PORSCHE

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **911** | | | | |
| H6 | 3.6 LTR. | Anniversary Edition | 2004 | **30211** |
| **911 CARRERA** | | | | |
| H6 | 3.4 LTR. | With E-Gas | 99-01 | **30197** |
| H6 | 3.4 LTR. | Without E-Gas, Excluding AWD | 99-01 | **30161** |
| H6 | 3.6 LTR. | | 02-12 | **30211** |
| H6 | 3.6 LTR. | | 95-98 | **30191** |
| **911 CARRERA S** | | | | |
| H6 | 3.6 LTR. | | 1998 | **30191** |
| **911 CARRERA 4** | | | | |
| H6 | 3.4 LTR. | With E-Gas | 99-01 | **30197** |
| H6 | 3.6 LTR. | | 02-12 | **30211** |
| H6 | 3.6 LTR. | | 95-98 | **30191** |
| H6 | 3.8 LTR. | | 06-12 | **30211** |
| **911 CARRERA 4S** | | | | |
| H6 | 3.6 LTR. | | 96-98 | **30191** |
| **911 GT2** | | | | |
| H6 | 3.6 LTR. | | 04-05 | **30197** |
| **911 GT3** | | | | |
| H6 | 3.6 LTR. | | 04-08 | **30211** |
| **911 SPEEDSTER** | | | | |
| H6 | 3.8 LTR. | | 2011 | **30211** |
| **911 TARGA** | | | | |
| H6 | 3.6 LTR. | | 07-12 | **30211** |
| H6 | 3.6 LTR. | | 96-98 | **30191** |
| H6 | 3.8 LTR. | | 07-12 | **30211** |
| **911 TURBO** | | | | |
| H6 | 3.6 LTR. | | 01-05 | **30197** |
| **BOXSTER** | | | | |
| H6 | 2.5 LTR. | Without E-Gas | 97-99 | **30161** |
| H6 | 2.7 LTR. | | 05-08 | **30233** |
| H6 | 2.7 LTR. | From Chassis #620415 | 00-04 | **30211** |
| H6 | 2.7 LTR. | With E-Gas, To Chassis #620414 | 2000 | **30197** |
| H6 | 3.2 LTR. | | 05-06 | **30233** |
| H6 | 3.4 LTR. | | 07-08 | **30233** |
| **BOXSTER S** | | | | |
| H6 | 3.2 LTR. | From Chassis #660258 | 00-04 | **30211** |
| H6 | 3.2 LTR. | With E-Gas, To Chassis #660257 | 2000 | **30197** |
| **CAYMAN** | | | | |
| H6 | 2.7 LTR. | | 07-08 | **30233** |
| H6 | 3.4 LTR. | | 06-08 | **30233** |
| **CAYENNE** | | | | |
| V8 | 4.5 LTR. TURBO | | 03-06 | **30236** |

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **SAAB** | | | | |
| **9-2X** | | | | |
| H4 | 2.0 LTR. | | 2005 | **30119** |
| H4 | 2.5 LTR. | | 05-06 | **30119** |
| **9-3** | | | | |
| L4 | 2.0 LTR. (B207R) | Aero & Aero Turbo 4 | 10-11 | **30241** |
| L4 | 2.0 LTR. (B207R) | | 06-10 | **30241** |
| L4 | 2.0 LTR. (B207R) | Aero | 04-05 | **30241** |
| L4 | 2.0 LTR. (B207L) | Linear | 03-05 | **30241** |
| L4 | 2.0 LTR. (B207R) | Arc | 03-05 | **30241** |
| L4 | 2.0 LTR. (B207R) | Vector | 2003 | **30241** |
| L4 | 2.0 LTR. (16 Valve) (B205R) | | 2003 | **30237** |
| L4 | 2.0 LTR, 2.3 LTR. (16 Valve) | | 00-02 | **30237** |
| L4 | 2.3 LTR. (16 Valve) | | 1999 | **30237** |
| **9-5** | | | | |
| L4 | 2.3 LTR. (16 Valve) | | 04-09 | **30237** |
| L4 | 2.3 LTR. (16 Valve) | | 99-03 | **30237** |
| L4 | 3.0 LTR. (24 Valve) | | 99-03 | **30237** |
| **SCION** | | | | |
| **TC** | | | | |
| L4 | 2.4 LTR. | | 05-06 | **30252** |
| **XA** | | | | |
| L4 | 1.5 LTR. | | 04-06 | **30093** |
| **XB** | | | | |
| L4 | 1.5 LTR. | | 04-06 | **30093** |
| **SUBARU** | | | | |
| **B9 TRIBECA** | | | | |
| H6 | 3.0 LTR. | | 06-07 | **30119** |
| **BAJA** | | | | |
| H4 | 2.5 LTR. | | 04-06 | **30119** |
| **FORESTER** | | | | |
| H4 | 2.5 LTR. | | 04-08 | **30119** |
| **IMPREZA** | | | | |
| H4 | 2.0 LTR. | | 02-05 | **30119** |
| H4 | 2.5 LTR. | | 04-07 | **30119** |
| **LEGACY** | | | | |
| H4 | 2.5 LTR. | | 04-09 | **30119** |
| **OUTBACK** | | | | |
| H4 | 2.5 LTR. | | 04-09 | **30119** |
| H6 | 3.0 LTR. | | 04-09 | **30119** |
| **TRIBECA** | | | | |
| H6 | 3.6 LTR. | | 08-14 | **30119** |

# TOYOTA

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **4-RUNNER** | | | | |
| L4 | 2.7 LTR. | | 2010 | **30239** |
| V6 | 3.4 LTR. | | 00-02 | **30252** |
| V6 | 4.0 LTR. | | 03-09 | **30093** |
| V8 | 4.7 LTR. | | 05-09 | **30239** |
| **AVALON** | | | | |
| V6 | 3.0 LTR. | | 00-04 | **30252** |
| **CAMRY** | | | | |
| L4 | 2.4 LTR. | | 02-06 | **30252** |
| V6 | 3.0 LTR. | | 02-06 | **30093** |
| V6 | 3.3 LTR. | | 04-06 | **30093** |
| **CELICA** | | | | |
| L4 | 1.8 LTR. | | 00-05 | **30093** |
| **COROLLA** | | | | |
| L4 | 1.8 LTR. | | 03-08 | **30093** |
| **ECHO** | | | | |
| L4 | 1.5 LTR. | | 00-05 | **30093** |
| **FJ CRUISER** | | | | |
| V6 | 4.0 LTR. | | 07-09 | **30093** |
| **HIGHLANDER** | | | | |
| L4 | 2.4 LTR. | | 01-07 | **30093** |
| V6 | 3.0 LTR. | | 01-03 | **30252** |
| V6 | 3.3 LTR. | | 08-10 | **30093** |
| V6 | 3.3 LTR. | | 04-07 | **30252** |
| **LAND CRUISER** | | | | |
| V8 | 5.7 LTR. | | 13-15 | **30239** |
| V8 | 5.7 LTR. | **From May 2005 on** | 05.05-11 | **30239** |
| **MATRIX** | | | | |
| L4 | 1.8 LTR. | | 03-08 | **30093** |
| **MR2 SPYDER** | | | | |
| L4 | 1.8 LTR. | | 00-05 | **30093** |
| **PRIUS** | | | | |
| L4 | 1.5 LTR. | | 04-09 | **30093** |
| L4 | 1.5 LTR. | | 01-03 | **30252** |
| **RAV4** | | | | |
| L4 | 2.0 LTR. | | 01-03 | **30093** |
| L4 | 2.4 LTR. | | 04-05 | **30093** |
| **SEQUOIA** | | | | |
| V8 | 4.6 LTR. | | 10-12 | **30239*** |
| V8 | 4.7 LTR. | **From August 2004 on** | 04.08-09 | **30239*** |
| V8 | 5.7 LTR. | | 08-15 | **30239*** |

* Located in air filter housing

## TOYOTA - cont.

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **SIENNA** | | | | |
| V6 | 3.0 LTR. | | 01-03 | **30252** |
| V6 | 3.3 LTR. | | 04-06 | **30093** |
| **SOLARA** | | | | |
| L4 | 2.4 LTR. | | 02-08 | **30252** |
| V6 | 3.3 LTR. | | 04-08 | **30093** |
| **TACOMA** | | | | |
| L4 | 2.7 LTR. | **From August 2004 on** | 04.08-15 | **30239*** |
| V6 | 3.4 LTR. | | 99-04 | **30252** |
| V6 | 4.0 LTR. | | 05-14 | **30093** |
| **TUNDRA** | | | | |
| V6 | 3.4 LTR. | | 00-04 | **30252** |
| V6 | 4.0 LTR. | | 05-11 | **30093** |
| V8 | 4.6 LTR. | | 10-15 | **30239*** |
| V8 | 4.7 LTR. | **From August 2004 on** | 04.08-09 | **30239*** |
| V8 | 5.7 LTR. | | 07-15 | **30239*** |
| **YARIS** | | | | |
| L4 | 1.5 LTR. | | 07-14 | **30093** |

* Located in air filter housing

# VOLKSWAGEN

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **CABRIO** | | | | |
| L4 | 2.0 LTR. | From Chassis #1E-T-003001 to 1E-X-899000 | 96-99 | **30027** |
| **CC** | | | | |
| L4 | 2.0 LTR. | | 09-17 | **30345** |
| **EOS** | | | | |
| L4 | 2.0 LTR. | | 09-11 | **30345** |
| L4 | 2.0 LTR. TURBO | | 07-08 | **30359** |
| L4 | 2.0 LTR. TURBO | BPY Eng. | 2009 | **30359** |
| **EUROVAN** | | | | |
| V6 | 2.8 LTR. (AXK) | | 01-03 | **30071** |
| **GOLF** | | | | |
| L4 | 1.8 LTR. (AWP) | | 02-06 | **30028** |
| L4 | 1.8 LTR. (AWW) | | 2001 | **30028** |
| L4 | 1.8 LTR. (AWD) | | 00-01 | **30339** |
| L4 | 1.9 LTR. | | 05-06 | **30042** |
| L4 | 1.9 LTR. (BEW) | | 2004 | **30042** |
| L4 | 1.9 LTR. | | 99-03 | **30231** |
| L4 | 2.0 LTR. | | 02-06 | **30056** |
| L4 | 2.0 LTR. (AEG) | | 2001 | **30020** |
| L4 | 2.0 LTR. (AVH, AZG) | | 2001 | **30056** |
| L4 | 2.0 LTR. | Mark 4 | 99-00 | **30020*** |
| L4 | 2.0 LTR. | From Chassis #1H-T-000001 | 96-99 | **30027**** |
| V6 | 2.8 LTR. (BDF) | | 02-05 | **30071** |
| V6 | 2.8 LTR. (AFP) | | 01-02 | **30071** |
| V6 | 2.8 LTR. | | 99-00 | **30071** |
| **GOLF R** | | | | |
| L4 | 2.0 LTR. | Base | 12-13 | **30359** |
| **GTI** | | | | |
| L4 | 2.0 LTR. | | 09-14 | **30345** |
| L4 | 2.0 LTR. (CBFA & CCTA) | | 2008 | **30345** |
| L4 | 2.0 LTR. TURBO | | 06-07 | **30359** |
| L4 | 2.0 LTR. TURBO | BPY Eng. | 2008 | **30359** |
| **JETTA** | | | | |
| L4 | 1.8 LTR. (AWP) | | 02-05 | **30028** |
| L4 | 1.8 LTR. (AWW) | | 2001 | **30028** |
| L4 | 1.8 LTR. | | 00-01 | **30339** |
| L4 | 1.9 LTR. | | 05-06 | **30042** |
| L4 | 1.9 LTR. (BEW) | | 2004 | **30042** |
| L4 | 1.9 LTR. | | 99-04 | **30231** |
| L4 | 2.0 LTR. | | 08-10 | **30345** |
| L4 | 2.0 LTR. | | 02-05 | **30056** |
| L4 | 2.0 LTR. (AEG) | | 2001 | **30020** |
| L4 | 2.0 LTR. (AVH, AZG) | | 2001 | **30056** |
| L4 | 2.0 LTR. | | 2000 | **30020*** |
| L4 | 2.0 LTR. (ABA) | From Chassis #1H-T-000001 | 1999 | **30027**** |
| L4 | 2.0 LTR. (AEG) | Mark 4 | 1999 | **30020*** |
| L4 | 2.0 LTR. | From Chassis #1H-T-000001 | 96-98 | **30027**** |

* Excluding Mark 3

** Excluding Mark 4

# VOLKSWAGEN - cont.

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **JETTA - cont.** | | | | |
| L4 | 2.0 LTR. TURBO | | 06-07 | **30359** |
| L4 | 2.0 LTR. SOHC | | 2007 | **30359** |
| L4 | 2.0 LTR. TURBO | BPY Eng. | 2008 | **30359** |
| L5 | 2.5 LTR. (20 Valve) | | 05-10 | **30236** |
| V6 | 2.8 LTR. (BDF) | | 03-04 | **30071** |
| V6 | 2.8 LTR. | | 00-02 | **30071** |
| V6 | 2.8 LTR. (AFP) | | 1999 | **30071** |
| **NEW BEETLE** | | | | |
| L4 | 1.8 LTR. | . | 2005 | **30056** |
| L4 | 1.8 LTR. | | 02-04 | **30028** |
| L4 | 1.8 LTR. (APH) | | 2001 | **30020** |
| L4 | 1.8 LTR. (AWV) | | 2001 | **30028** |
| L4 | 1.8 LTR. | | 99-00 | **30020** |
| L4 | 1.9 LTR. | | 05-06 | **30042** |
| L4 | 1.9 LTR. (ALH) | | 2004 | **30231** |
| L4 | 1.9 LTR. (BEW) | | 2004 | **30042** |
| L4 | 1.9 LTR. | | 98-03 | **30231** |
| L4 | 2.0 LTR. | | 12-13 | **30345** |
| L4 | 2.0 LTR. | | 02-05 | **30056** |
| L4 | 2.0 LTR. (AEG) | | 2001 | **30020** |
| L4 | 2.0 LTR. (AVH, AZG) | | 2001 | **30056** |
| L4 | 2.0 LTR. | | 98-00 | **30020** |
| L5 | 2.5 LTR. (20 Valve) | | 06-10 | **30236** |
| **PASSAT** | | | | |
| L4 | 1.8 LTR. (AWM) | **Up to July 2001**, VIN# 3B.2.100 000 | 01-02 | **30028** |
| L4 | 1.8 LTR. (AUG) | | 2000 | **30028** |
| L4 | 1.8 LTR. (ATW) | | 2000 | **30339** |
| L4 | 1.8 LTR. (AUG) | | 2000 | **30028** |
| L4 | 1.8 LTR. | **From July 2001 on**, VIN# 3B.2.100 001 | 02-05 | **30227** |
| L4 | 1.8 LTR. | From Chassis #3B-WE175001 | 98-99 | **30027** |
| L4 | 2.0 LTR. | From Chassis #3A-T-025001 | 1996 | **30027** |
| L4 | 2.0 LTR. | | 04-05 | **30010** |
| L4 | 2.0 LTR. (CCTA) | | 2008 | **30345** |
| L4 | 2.0 LTR. | | 09-10 | **30345** |
| L4 | 2.0 LTR. TURBO | | 06-07 | **30359** |
| L4 | 2.0 LTR. TURBO | BPY Eng. | 2008 | **30359** |
| **PHAETON** | | | | |
| V8 | 4.2 LTR. | 2 Required | 04-06 | **30056** |
| W12 | 6.0 LTR. (48 Valve) | | 04-06 | **30236** |
| **RABBIT** | | | | |
| L5 | 2.5 LTR. (20 Valve) | | 06-09 | **30236** |
| **TIGUAN** | | | | |
| L4 | 2.0 LTR. | | 09-18 | **30345** |
| **TOUAREG** | | | | |
| V8 | 4.2 LTR. | 2 Required | 04-09 | **30056** |
| V10 | 4.9 LTR. | | 2004 | **30010** |
| V10 | 5.0 LTR. | | 06-08 | **30010** |

# VOLVO

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **850** | | | | |
| L5 | 2.3 LTR. | Excluding Manual Transmission | 95-97 | **30060** |
| L5 | 2.4 LTR. | Excluding Manual Transmission | 95-97 | **30060** |
| **C70** | | | | |
| L5 | 2.3 LTR. TURBO | | 99-04 | **30047** |
| L5 | 2.3 LTR. | | 1998 | **30060** |
| L5 | 2.4 LTR. TURBO | | 99-04 | **30047** |
| L5 | 2.4 LTR. | | 1998 | **30060** |
| **S40** | | | | |
| L5 | 2.4 LTR. | | 04-10 | **30252** |
| **S60** | | | | |
| L5 | 2.3 LTR. TURBO | | 01-04 | **30047** |
| L5 | 2.4 LTR. Naturally Aspirated | | 01-05 | **30252** |
| L5 | 2.4 LTR. TURBO | | 01-03 | **30047** |
| L5 | 2.5 LTR. (B5254T4 & B5244T5 only) | | 04-09 | **30100** |
| L5 | 2.5 LTR. TURBO | | 03-09 | **30047** |
| **S70** | | | | |
| L5 | 2.3 LTR. TURBO | | 99-00 | **30047** |
| L5 | 2.3 LTR. | | 1998 | **30060** |
| L5 | 2.4 LTR. TURBO | | 99-00 | **30047** |
| L5 | 2.4 LTR. | | 1998 | **30060** |
| **S80** | | | | |
| L5 | 2.5 LTR. | | 04-06 | **30047** |
| L6 | 2.9 LTR. TURBO | | 02-06 | **30100** |
| L6 | 2.9 LTR. Non Turbo | | 02-04 | **30047** |
| L6 | 3.2 LTR. | | 07-14 | **30252** |
| V8 | 4.4 LTR. | | 07-10 | **30252** |
| **V50** | | | | |
| L5 | 2.4 LTR. | | 05-10 | **30252** |
| **V70** | | | | |
| L5 | 2.3 LTR. (B5234T3) TURBO | | 02-04 | **30047** |
| L5 | 2.3 LTR. TURBO | | 99-01 | **30047** |
| L5 | 2.3 LTR. | | 1998 | **30060** |
| L5 | 2.4 LTR. Naturally Aspirated | | 01-07 | **30252** |
| L5 | 2.4 LTR. (B5244T3) TURBO | | 02-03 | **30047** |
| L5 | 2.4 LTR. TURBO | | 99-00 | **30047** |
| L5 | 2.5 LTR. (B5244T4/T5 & B5254T4 only) | | 04-07 | **30100** |
| L5 | 2.5 LTR. TURBO | | 03-07 | **30047** |
| L5 | 2.4 LTR. (B5244T4/T5 & B5254T4 only) | | 2005 | **30100** |
| L6 | 3.2 LTR. Naturally Aspirated | | 08-10 | **30252** |

## VOLVO - cont.

| CY. | APPLICATION | NOTES | YEAR | KARLYN # |
|---|---|---|---|---|
| **XC60** | | | | |
| L6 | 3.2 LTR. | | 10-14 | **30252** |
| **XC70** | | | | |
| L5 | 2.5 LTR. | | 03-07 | **30047** |
| L6 | 3.2 LTR. | | 08-14 | **30252** |
| **XC90** | | | | |
| L5 | 2.5 LTR. | | 03-06 | **30047** |
| L6 | 2.9 LTR. | | 03-05 | **30100** |
| L6 | 3.2 LTR. | | 07-14 | **30252** |
| V8 | 4.4 LTR. | | 05-11 | **30252** |

**# 30010**
(VW OE# 074-906-461B)

**# 30012**
(BMW/HYUNDAI OE#
13-62-1-432-356, 28164-37100)

**# 30013**
(MB OE# 000-094-09-48)

**# 30017**
(MB OE# 111-094-01-48)

**# 30020**
(VW OE# 06A-906-461A)

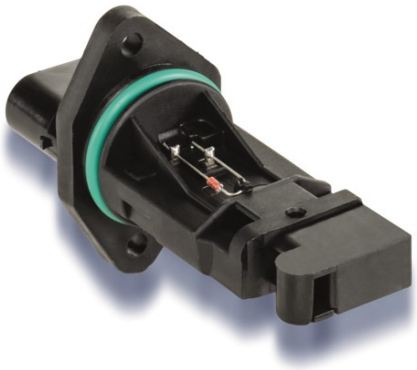
**# 30025**
(MB OE# 112-094-00-48)

**# 30027**
(AUDI/VW OE# 037-906-461C)

**# 30028**
(AUDI/VW OE# 06A-906-461L)

**# 30042**
(VW OE# 038-906-461B)

| | | |
|---|---|---|
| **# 30045**<br>(MB OE# 271-094-02-48)<br> | **# 30047**<br>(VOLVO OE# 31342414, 31342362, 8670263)<br> | **# 30056**<br>(AUDI/VW OE# 06A-906-461G)<br> |
| **# 30058**<br>(VOLVO OE# 8670263)<br>REPLACED BY #30047 | **# 30060**<br>(VOLVO OE# 1275749)<br> | **# 30071**<br>(AUDI/VW OE# 071-906-461B)<br> |
| **# 30078**<br>(MB OE# 000-094-05-48)<br> | **# 30079**<br>(BMW/LAND ROVER OE#<br>13-62-1-433-567, MHK000230)<br> | **# 30080**<br>(MB OE# 113-094-00-48)<br> |

| | | |
|---|---|---|
| **# 30093**<br>(LEXUS/SCION/TOYOTA OE# 22204-22010)<br> | **# 30098**<br>(BMW OE# 13-62-7-567-451)<br> | **# 30100**<br>(VOLVO OE# 31342363)<br> |
| **# 30114**<br>(MB OE# 273-094-09-48)<br> | **# 30119**<br>(JAGUAR OE# 2W93-12B579-AB/AC, C2C7636<br>MAZDA OE# L3K9-13-215-9U<br>SAAB OE# 32005985<br>SUBARU OE# 22680-AA310)<br> | **# 30121**<br>(BMW OE# 13-62-1-703-275)<br> |
| **# 30135**<br>(INFINITI/NISSAN OE# 22680-31U05)<br> | **# 30161**<br>(PORSCHE OE# 996-606-123-00)<br>  | **# 30173**<br>(BMW OE# 13-62-1-747-155)<br> |

**# 30189**
(BMW OE# 13-62-1-433-566)

**# 30190**
(BMW OE# 13-62-1-702-078)

**# 30191**
(PORSCHE OE# 993-606-123-01)

**# 30197**
(PORSCHE OE# 996-606-124-00)

**# 30211**
(PORSCHE OE# 986-606-125-01)

**# 30214**
(INFINITI/NISSAN OE# 22680-AD201)

**# 30227**
(VW OE# 06A-906-461N)

**# 30230**
(INFINITI/NISSAN OE# 22680-7S00A/7S000)

**# 30231**
(VW OE# 038-906-461C, 06A-906-461)

**# 30232**
(BMW OE# 13-62-7-566-983)

**# 30233**
(PORSCHE OE# 987-606-125-00)

**# 30234**
(BMW OE# 13-62-7-830-359,
13-62-7-839-014)

**# 30235**
(BMW OE# 13-62-7-566-984)

**# 30236**
(PORSCHE OE# 955-606-123-00
VW OE# 07C-906-461)

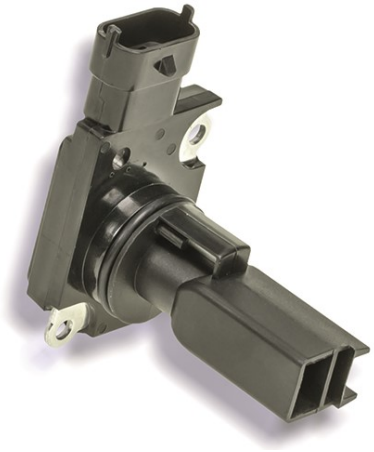
**# 30237**
(SAAB OE# 55557008)

**# 30238**
(BMW OE# 11-72-1-438-814)

**# 30239**
(LEXUS/TOYOTA OE# 22204-0F030,
22204-75030)

**# 30240**
(ACURA/HONDA OE# 37980-RNA-A01)

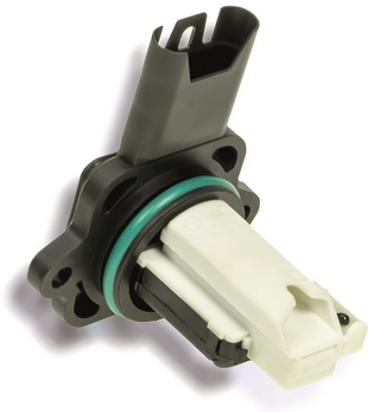
**# 30241**
(SAAB OE# 12788131)



**# 30242**
(CHRYSLER/DODGE/MITSUBISHI OE# MD336501, E5T08171)

**# 30244**
(KIA OE# 28100-2Y100)

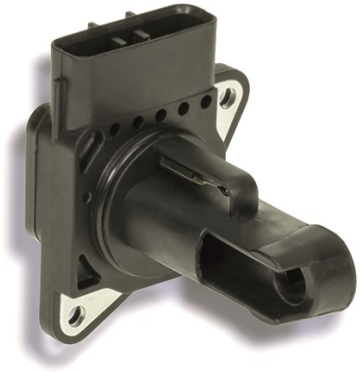
**# 30245**
(BMW OE# 13-62-7-520-519)



**# 30246**
(BMW OE# 13-62-7-551-638, 13-62-7-585-680)

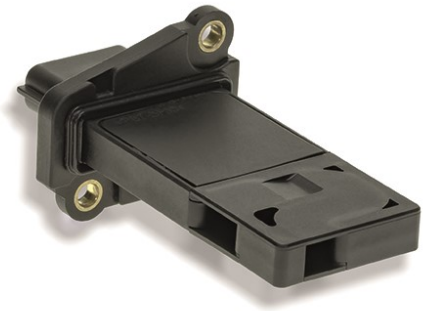
**# 30249**
(MITSUBISHI OE# MR985187)

**# 30252**
(JAGUAR OE# C2S2670, LAND ROVER OE# PHF000140, MAZDA OE# L321-13-215, TOYOTA OE# 22204-21010, VOLVO OE# 8658471)



**# 30339**
(AUDI/VW OE# 06A-906-461DX)

**# 30345**
(AUDI/VW OE# 06J-906-461-B)

| | | |
|---|---|---|
| **# 30351**<br>(BMW OE# 13-62-7-593-624)<br> | **# 30359**<br>(AUDI/VW OE# 06F-906-461A)<br> | **# 30361**<br>(HYUNDIA/KIA OE# 28164-25000)<br> |
| **# 30365**<br>(INFINITI/NISSAN OE# 22680-1MB0A)<br>  | **# 30373**<br>(BMW OE# 13-62-8-645-877)<br> | |
| | | |

## CROSS REFERENCE

| BOSCH | KARLYN/STI |
|---|---|
| 63128 | **30135** |
| 63136 | **30020** |
| 63137 | **30231** |
| 63139 | **30042** |
| 0-280-217-007 | **30161** |
| 0-280-217-107 | **30060** |
| 0-280-217-114 | **30013** |
| 0-280-217-117 | **30027** |
| 0-280-217-500 | **30078** |
| 0-280-217-515 | **30025** |
| 0-280-217-533 | **30189** |
| 0-280-217-800 | **30190** |
| 0-280-217-810 | **30080** |
| 0-280-217-814 | **30079** |
| 0-280-217-803 | **30191** |
| 0-280-217-502 | **30173** |
| 0-280-218-002 | **30020** |
| 0-280-218-009 | **30197** |
| 0-280-218-017 | **30071** |
| 0-280-218-032 | **30339** |
| 0-280-218-055 | **30211** |
| 0-280-218-060 | **30056** |
| 0-280-218-062 | **30234** |
| 0-280-218-063 | **30028** |
| 0-280-218-071 | **30236** |
| 0-280-218-088 | **30047** |
| 0-280-218-089 | **30100** |
| 0-280-218-100 | **30227** |
| 0-280-218-108 | **30047** |
| 0-280-218-145 | **30233** |
| 0-280-218-190 | **30114** |
| 0-280-218-270 | **30373** |
| 0-281-002-461 | **30010** |
| 0-281-002-531 | **30042** |
| 0-281-002-757 | **30231** |
| 0-986-280-201 | **30027** |
| 0-986-280-202 | **30231** |
| 0-986-280-205 | **30020** |
| 0-986-280-216 | **30056** |
| 0-986-284-007 | **30010** |

| BOSCH | KARLYN/STI |
|---|---|
| 0-986-284-009 | **30042** |
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| VDO | KARLYN/STI |
|---|---|
| 5WK96050Z | **30012** |
| 5WK96132Z | **30098** |
| 5WK9613Z | **30017** |
| 5WK9638Z | **30045** |
| 5WK9639Z | **30238** |
| 5WK9642Z | **30232** |
| 5WK9600Z | **30121** |
| 5WK97502Z | **30245** |
| 5WK97508Z | **30246** |
| 5WK97512Z | **30351** |
| A2C59511576 | **30235** |
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REFER TO OUR MODEL LISTINGS FOR THE CORRECT APPLICATION

# CROSS REFERENCE

| OEM | KARLYN/STI |
|---|---|
| 1275749 | **30060** |
| 8658471 | **30252** |
| 8670263 | **30047** |
| 12788131 | **30241** |
| 31342362 | **30047** |
| 31342363 | **30100** |
| 31342414 | **30047** |
| 32005985 | **30119** |
| 55557008 | **30237** |
| 000-094-05-48 | **30078** |
| 000-094-09-48 | **30013** |
| 037-906-461C | **30027** |
| 038-906-461B | **30042** |
| 038-906-461C | **30231** |
| 06A-906-461 | **30231** |
| 06A-906-461A | **30020** |
| 06A-906-461DX | **30339** |
| 06A-906-461G | **30056** |
| 06A-906-461L | **30028** |
| 06A-906-461N | **30227** |
| 06F-906-461A | **30359** |
| 06J-906-461B | **30345** |
| 071-906-461B | **30071** |
| 074-906-461B | **30010** |
| 07C-906-461 | **30236** |
| 111-094-01-48 | **30017** |
| 112-094-00-48 | **30025** |
| 113-094-00-48 | **30080** |
| 11-72-1-438-814 | **30238** |
| 13-62-1-747-155 | **30173** |
| 13-62-1-432-356 | **30012** |
| 13-62-1-433-566 | **30189** |
| 13-62-1-433-567 | **30079** |
| 13-62-1-702-078 | **30190** |
| 13-62-1-703-275 | **30121** |
| 13-62-7-520-519 | **30245** |
| 13-62-7-551-638 | **30246** |
| 13-62-7-566-983 | **30232** |
| 13-62-7-566-984 | **30235** |
| | |

| OEM | KARLYN/STI |
|---|---|
| 13-62-7-566-990 | **30373** |
| 13-62-7-567-451 | **30098** |
| 13-62-7-585-680 | **30246** |
| 13-62-7-593-624 | **30351** |
| 13-62-7-830-359 | **30234** |
| 13-62-7-839-014 | **30234** |
| 13-62-8-645-877 | **30373** |
| 22204-0F030 | **30239** |
| 22204-21010 | **30252** |
| 22204-22010 | **30093** |
| 22204-75030 | **30239** |
| 22680-1MB0A | **30365** |
| 22680-31U05 | **30135** |
| 22680-7S00A/7S000 | **30230** |
| 22680-AA310 | **30119** |
| 22680-AD201 | **30214** |
| 271-094-02-48 | **30045** |
| 273-094-09-48 | **30114** |
| 28100-2Y100 | **30244** |
| 28164-25000 | **30361** |
| 28164-37100 | **30012** |
| 2W93-12B579-AB | **30119** |
| 2W93-12B579-AC | **30119** |
| 37980-RNA-A01 | **30240** |
| 955-606-123-00 | **30236** |
| 986-606-125-01 | **30211** |
| 987-606-125-00 | **30233** |
| 993-606-123-01 | **30191** |
| 996-606-124-00 | **30197** |
| C2C7636 | **30119** |
| C2S2670 | **30252** |
| E5T08171 | **30242** |
| L321-13-215 | **30252** |
| L3K9-13-215-9U | **30119** |
| MD336501 | **30242** |
| MHK000230 | **30079** |
| MR985187 | **30249** |
| PHF000140 | **30252** |
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